



Full wwPDB EM Validation Report ⓘ

Mar 6, 2026 – 09:33 AM UTC

PDB ID : 3J9K / pdb_00003j9k
EMDB ID : EMD-2870
Title : Structure of Dark apoptosome in complex with Dronc CARD domain
Authors : Pang, Y.; Bai, X.; Yan, C.; Hao, Q.; Chen, Z.; Wang, J.; Scheres, S.H.W.; Shi, Y.
Deposited on : 2015-02-04
Resolution : 4.10 Å(reported)

This is a Full wwPDB EM 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/EMValidationReportHelp>
with specific help available everywhere you see the ⓘ symbol.

The types of validation reports are described at

<http://www.wwpdb.org/validation/2017/FAQs#types>.

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

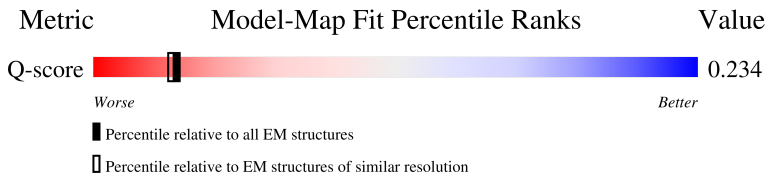
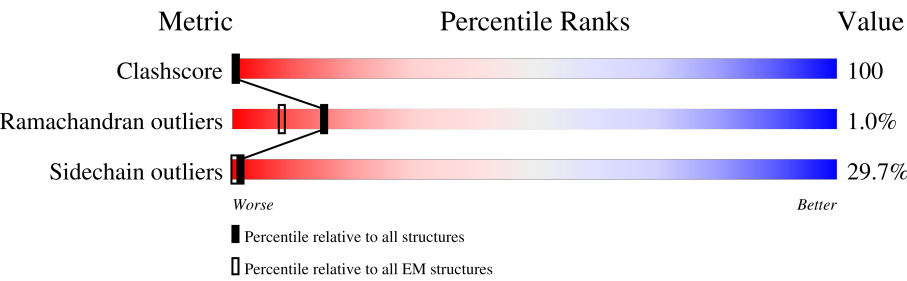
EMDB validation analysis : 0.0.1.dev132
Mogul : 2022.3.0, CSD as543be (2022)
MolProbity : 4-5-2 with Phenix2.0
Buster-report : wwPDB partial adaption of 1.1.7 (2018)
Percentile statistics : 20250101.v01 (using entries in the PDB archive January 1st 2025)
EM percentile statistics : 202505.v01 (Using data in the EMDB archive up until May 2025)
MapQ : 1.9.13
Ideal geometry (proteins) : Engh & Huber (2001)
Ideal geometry (DNA, RNA) : Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP) : 2.49

1 Overall quality at a glance i

The following experimental techniques were used to determine the structure:
ELECTRON MICROSCOPY

The reported resolution of this entry is 4.10 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)	EM structures (#Entries)	Similar EM resolution (#Entries, resolution range(Å))
Clashscore	229148	23984	-
Ramachandran outliers	224038	23583	-
Sidechain outliers	223484	23102	-
Q-score	-	25397	6458 (3.60 - 4.60)

The table below summarises the geometric issues observed across the polymeric chains and their fit to the map. The red, orange, yellow and green segments of the 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 $\leq 5\%$. The upper red bar (where present) indicates the fraction of residues that have poor fit to the EM map (all-atom inclusion $< 40\%$). The numeric value is given above the bar.

Mol	Chain	Length	Quality of chain
1	A	1102	25% 49% 30% 14% . .
1	C	1102	24% 49% 30% 14% . .
1	E	1102	25% 49% 30% 14% . .
1	G	1102	24% 49% 30% 14% . .

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Mol	Chain	Length	Quality of chain
1	I	1102	
1	K	1102	
1	M	1102	
1	O	1102	
1	Q	1102	
1	S	1102	
1	U	1102	
1	W	1102	
1	Y	1102	
1	a	1102	
1	c	1102	
1	e	1102	
2	B	450	
2	D	450	
2	F	450	
2	H	450	
2	J	450	
2	L	450	
2	N	450	
2	P	450	
2	R	450	
2	T	450	
2	V	450	
2	X	450	
2	Z	450	

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Mol	Chain	Length	Quality of chain
2	b	450	14%5% 77%
2	d	450	14%5% 77%
2	f	450	14%5% 77%

2 Entry composition

There are 3 unique types of molecules in this entry. The entry contains 126512 atoms, of which 0 are hydrogens and 0 are deuteriums.

In the tables below, 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.

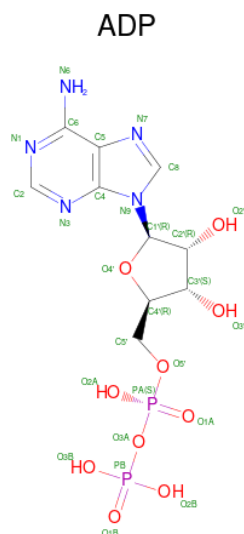
- Molecule 1 is a protein called Apaf-1 related killer DARK.

Mol	Chain	Residues	Atoms					AltConf	Trace
1	A	1063	Total	C	N	O	S	0	0
			7040	4414	1277	1326	23		
1	C	1063	Total	C	N	O	S	0	0
			7040	4414	1277	1326	23		
1	E	1063	Total	C	N	O	S	0	0
			7040	4414	1277	1326	23		
1	G	1063	Total	C	N	O	S	0	0
			7040	4414	1277	1326	23		
1	I	1063	Total	C	N	O	S	0	0
			7040	4414	1277	1326	23		
1	K	1063	Total	C	N	O	S	0	0
			7040	4414	1277	1326	23		
1	M	1063	Total	C	N	O	S	0	0
			7040	4414	1277	1326	23		
1	O	1063	Total	C	N	O	S	0	0
			7040	4414	1277	1326	23		
1	Q	1063	Total	C	N	O	S	0	0
			7040	4414	1277	1326	23		
1	S	1063	Total	C	N	O	S	0	0
			7040	4414	1277	1326	23		
1	U	1063	Total	C	N	O	S	0	0
			7040	4414	1277	1326	23		
1	W	1063	Total	C	N	O	S	0	0
			7040	4414	1277	1326	23		
1	Y	1063	Total	C	N	O	S	0	0
			7040	4414	1277	1326	23		
1	a	1063	Total	C	N	O	S	0	0
			7040	4414	1277	1326	23		
1	c	1063	Total	C	N	O	S	0	0
			7040	4414	1277	1326	23		
1	e	1063	Total	C	N	O	S	0	0
			7040	4414	1277	1326	23		

- Molecule 2 is a protein called Caspase Nc.

Mol	Chain	Residues	Atoms					AltConf	Trace
2	B	102	Total	C	N	O	S	0	0
			840	522	160	152	6		
2	D	102	Total	C	N	O	S	0	0
			840	522	160	152	6		
2	F	102	Total	C	N	O	S	0	0
			840	522	160	152	6		
2	H	102	Total	C	N	O	S	0	0
			840	522	160	152	6		
2	J	102	Total	C	N	O	S	0	0
			840	522	160	152	6		
2	L	102	Total	C	N	O	S	0	0
			840	522	160	152	6		
2	N	102	Total	C	N	O	S	0	0
			840	522	160	152	6		
2	P	102	Total	C	N	O	S	0	0
			840	522	160	152	6		
2	R	102	Total	C	N	O	S	0	0
			840	522	160	152	6		
2	T	102	Total	C	N	O	S	0	0
			840	522	160	152	6		
2	V	102	Total	C	N	O	S	0	0
			840	522	160	152	6		
2	X	102	Total	C	N	O	S	0	0
			840	522	160	152	6		
2	Z	102	Total	C	N	O	S	0	0
			840	522	160	152	6		
2	b	102	Total	C	N	O	S	0	0
			840	522	160	152	6		
2	d	102	Total	C	N	O	S	0	0
			840	522	160	152	6		
2	f	102	Total	C	N	O	S	0	0
			840	522	160	152	6		

- Molecule 3 is ADENOSINE-5'-DIPHOSPHATE (CCD ID: ADP) (formula: $C_{10}H_{15}N_5O_{10}P_2$).



Mol	Chain	Residues	Atoms					AltConf
3	A	1	Total 27	C 10	N 5	O 10	P 2	0
3	C	1	Total 27	C 10	N 5	O 10	P 2	0
3	E	1	Total 27	C 10	N 5	O 10	P 2	0
3	G	1	Total 27	C 10	N 5	O 10	P 2	0
3	I	1	Total 27	C 10	N 5	O 10	P 2	0
3	K	1	Total 27	C 10	N 5	O 10	P 2	0
3	M	1	Total 27	C 10	N 5	O 10	P 2	0
3	O	1	Total 27	C 10	N 5	O 10	P 2	0
3	Q	1	Total 27	C 10	N 5	O 10	P 2	0
3	S	1	Total 27	C 10	N 5	O 10	P 2	0
3	U	1	Total 27	C 10	N 5	O 10	P 2	0
3	W	1	Total 27	C 10	N 5	O 10	P 2	0
3	Y	1	Total 27	C 10	N 5	O 10	P 2	0
3	a	1	Total 27	C 10	N 5	O 10	P 2	0

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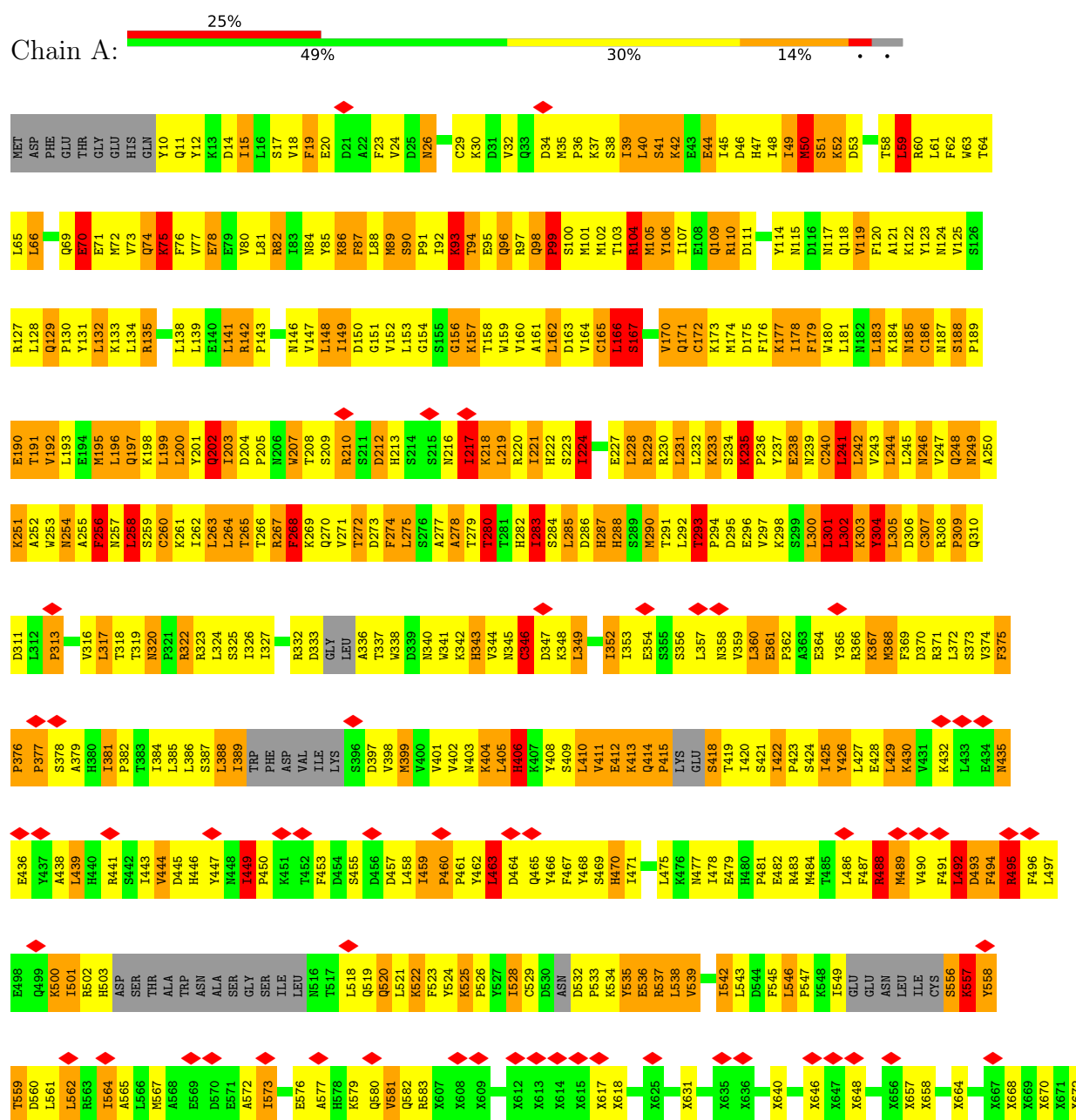
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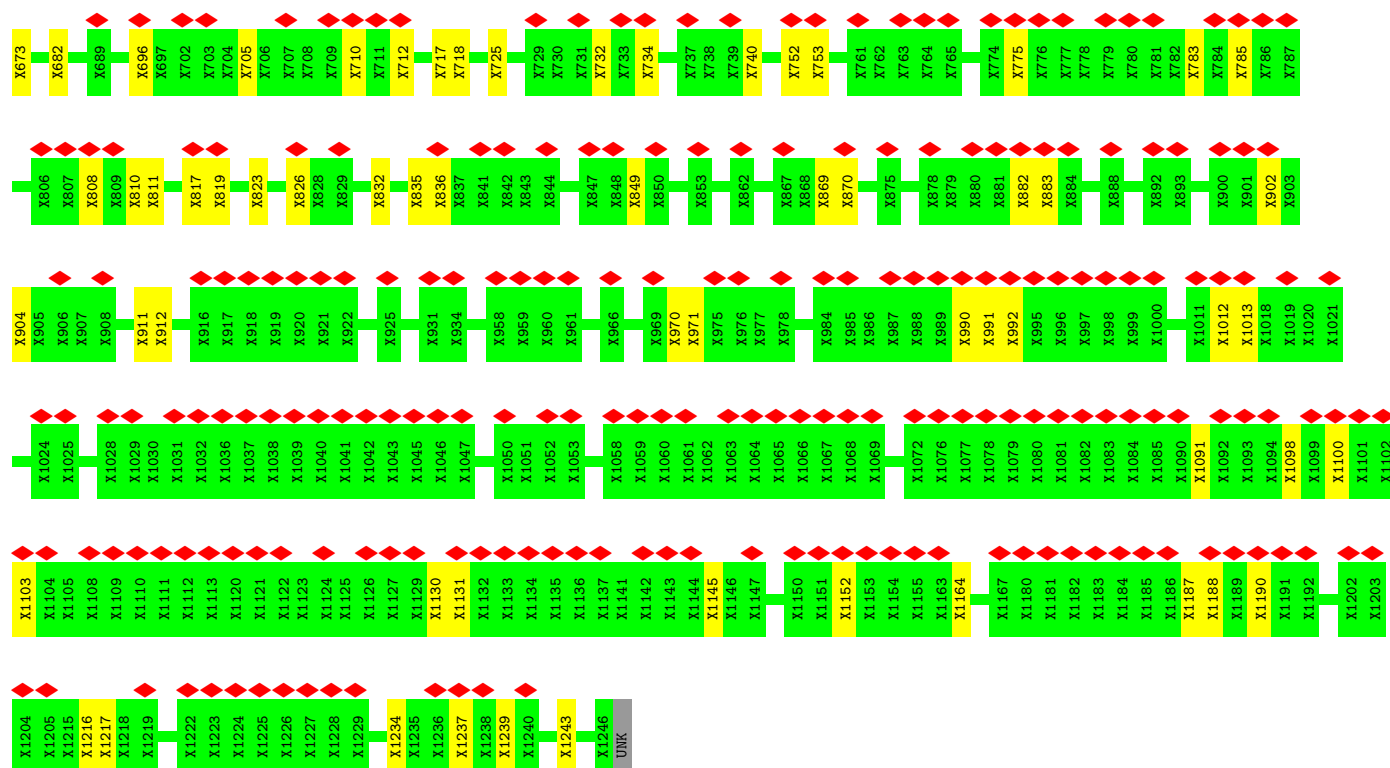
Mol	Chain	Residues	Atoms					AltConf
3	c	1	Total	C	N	O	P	0
			27	10	5	10	2	
3	e	1	Total	C	N	O	P	0
			27	10	5	10	2	

3 Residue-property plots

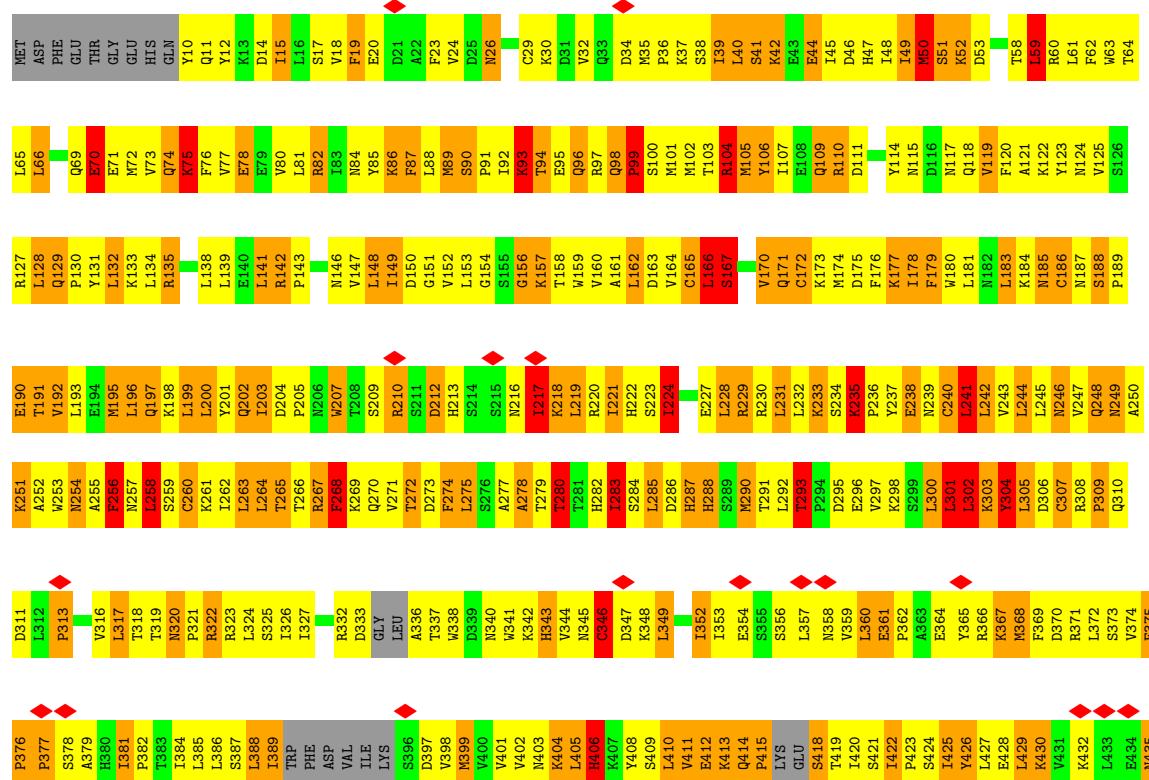
These plots are drawn for all protein, RNA, DNA and oligosaccharide chains in the entry. The first graphic for a chain summarises the proportions of the various outlier classes displayed in the second graphic. The second graphic shows the sequence view annotated by issues in geometry and atom inclusion in map density. Residues are color-coded according to the number of geometric quality criteria for which they contain at least one outlier: green = 0, yellow = 1, orange = 2 and red = 3 or more. A red diamond above a residue indicates a poor fit to the EM map for this residue (all-atom inclusion < 40%). Stretches of 2 or more consecutive residues without any outlier are shown as a green connector. Residues present in the sample, but not in the model, are shown in grey.

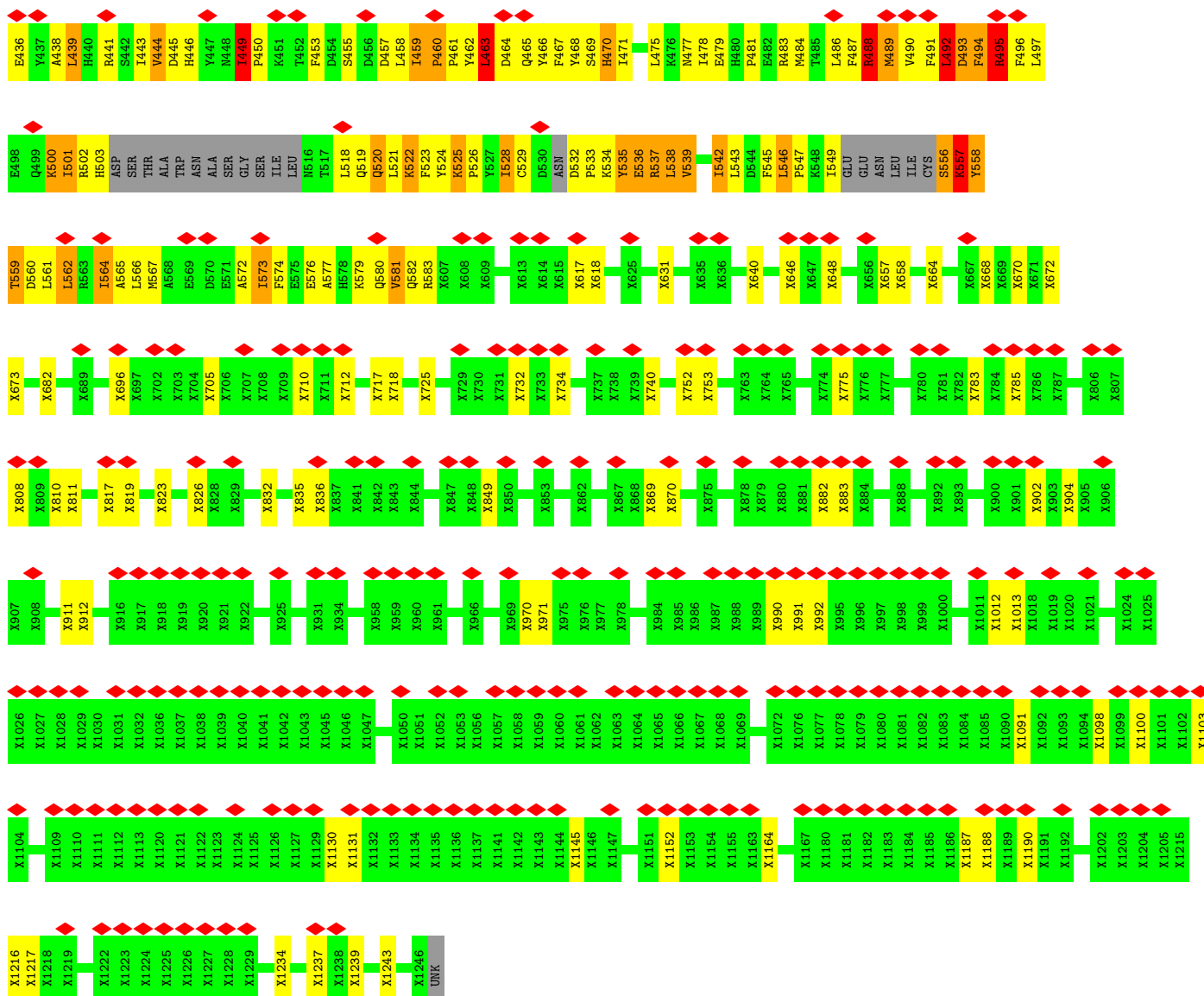
• Molecule 1: Apaf-1 related killer DARK



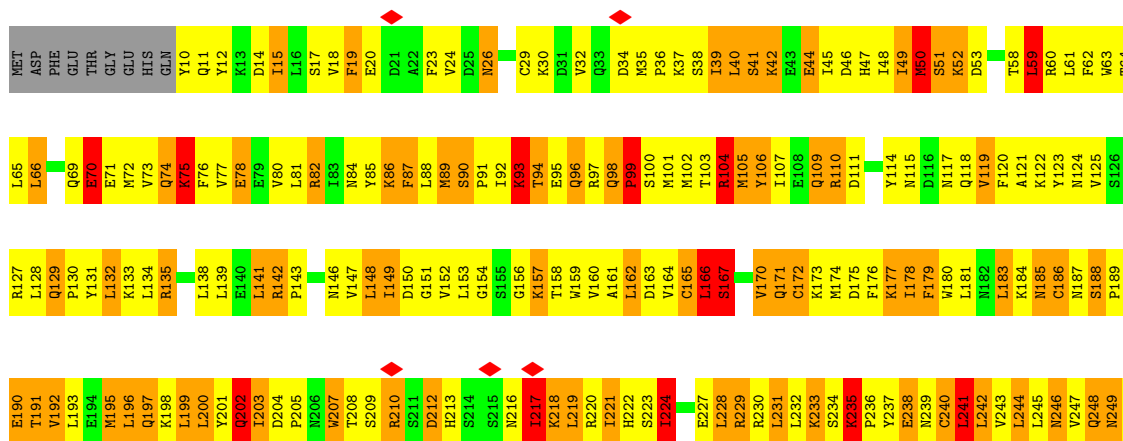


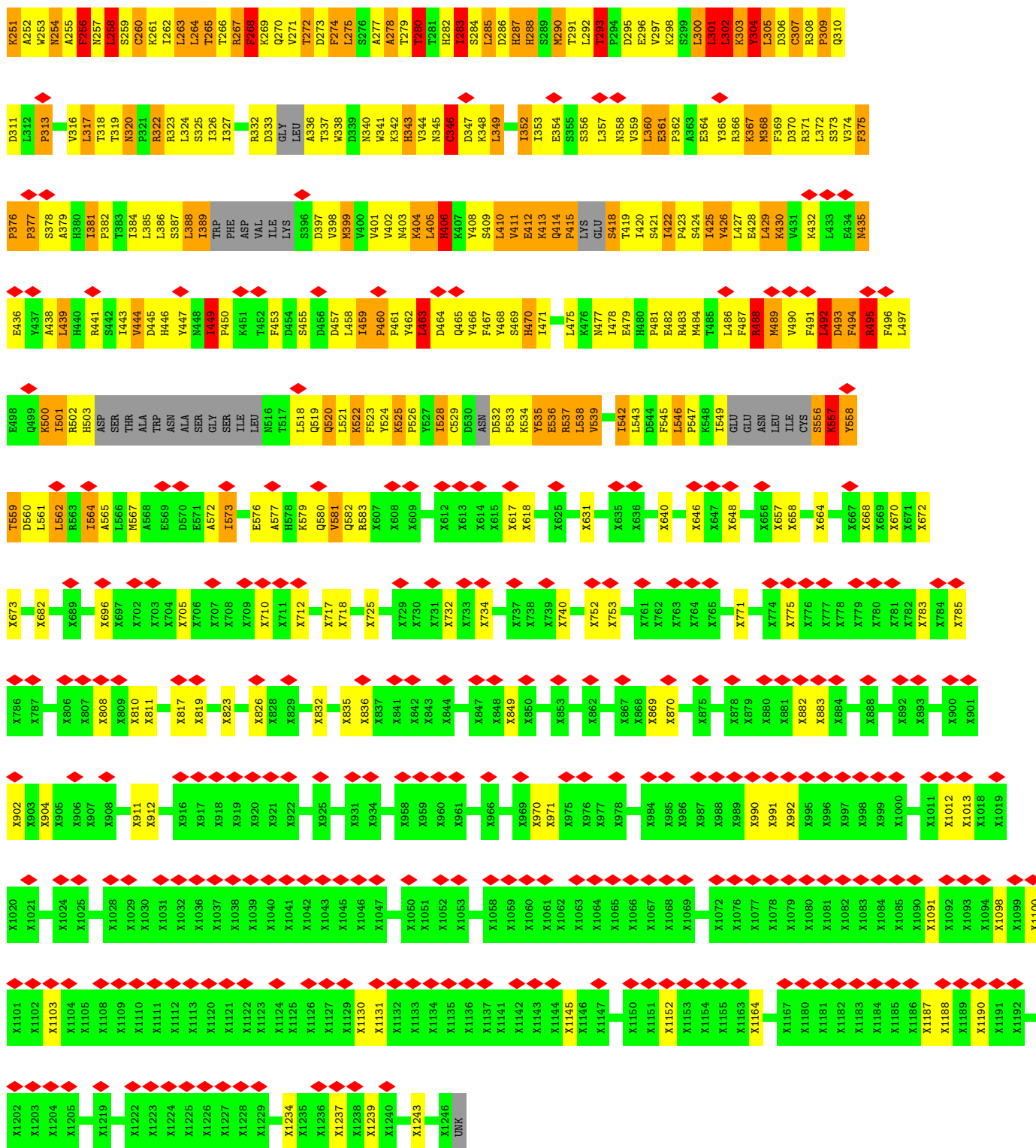
• Molecule 1: Apaf-1 related killer DARK



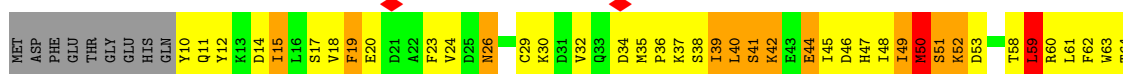


• Molecule 1: Apaf-1 related killer DARK

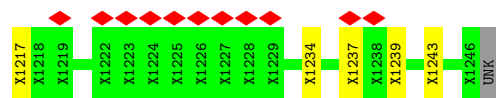




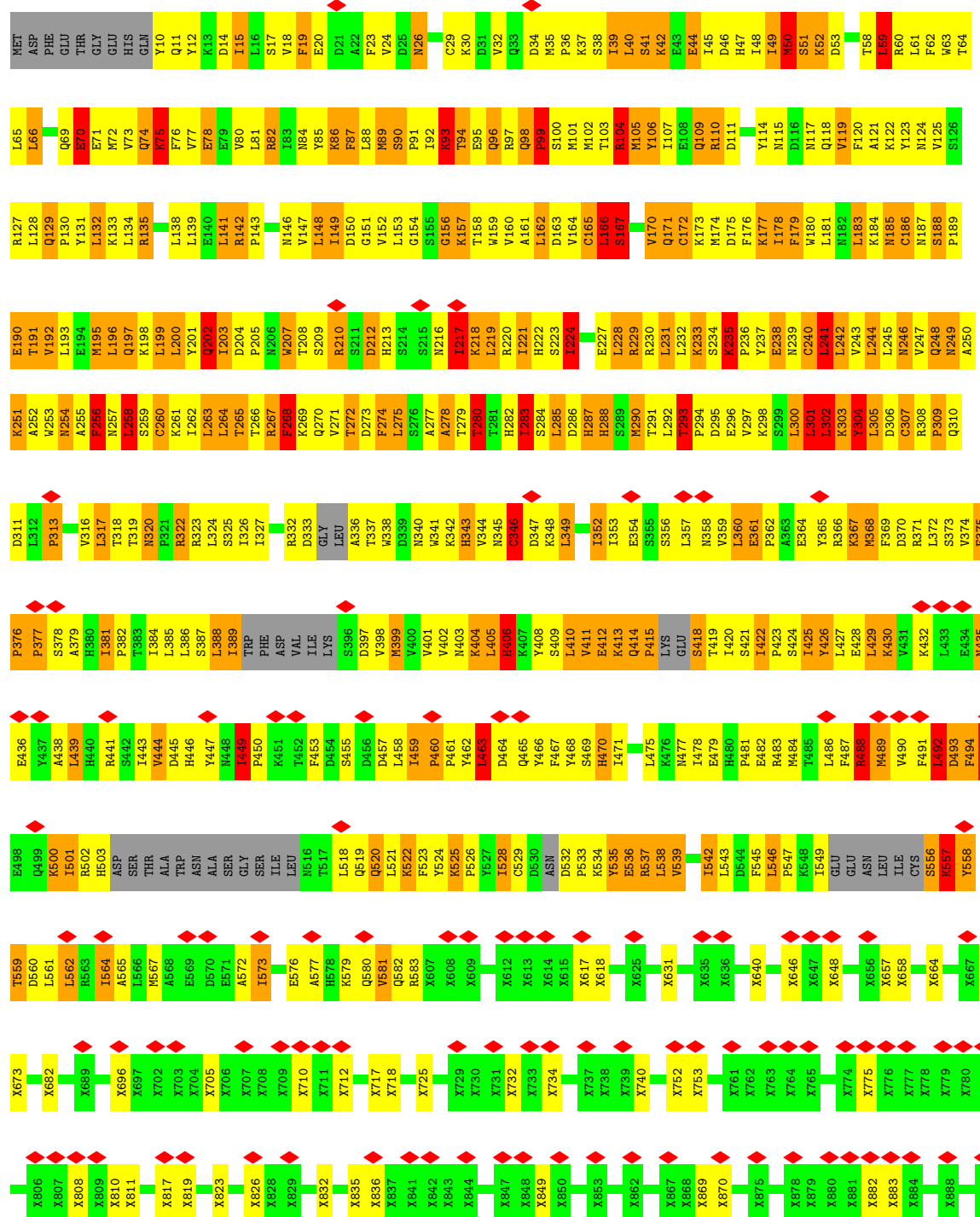
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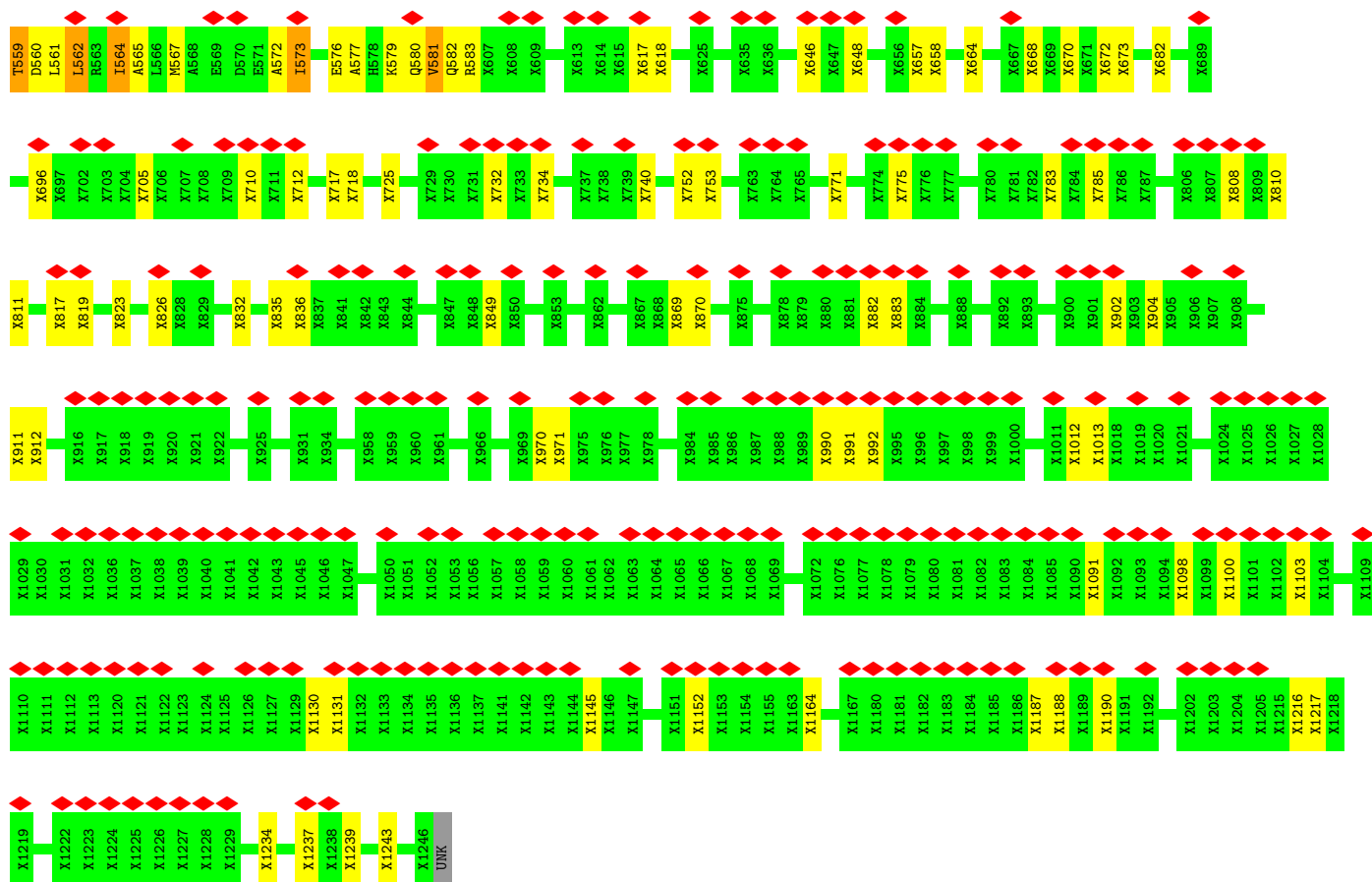




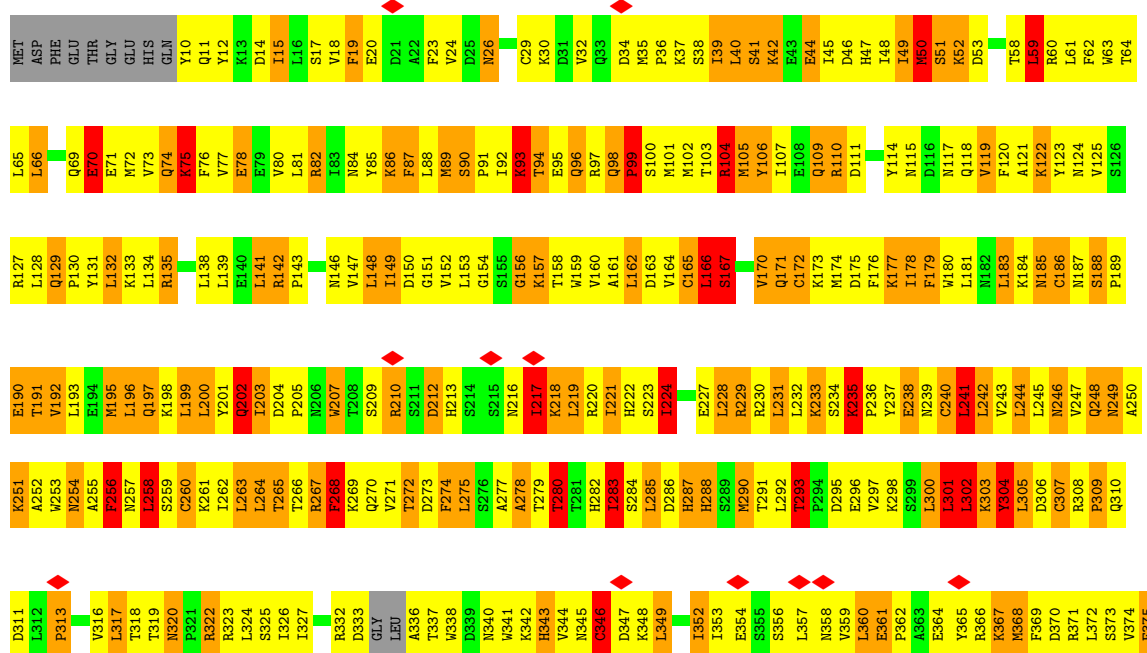
● Molecule 1: Apaf-1 related killer DARK

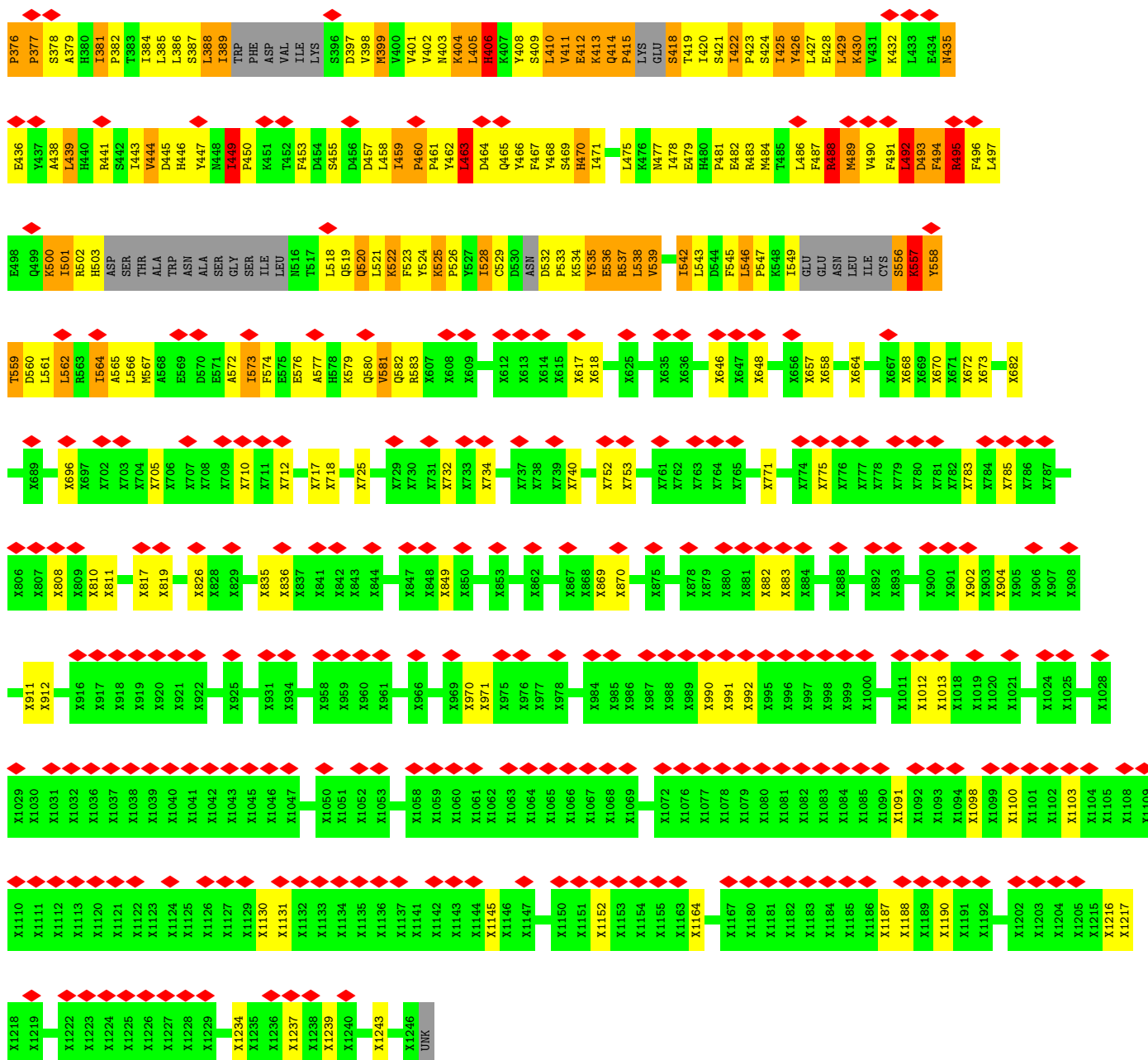




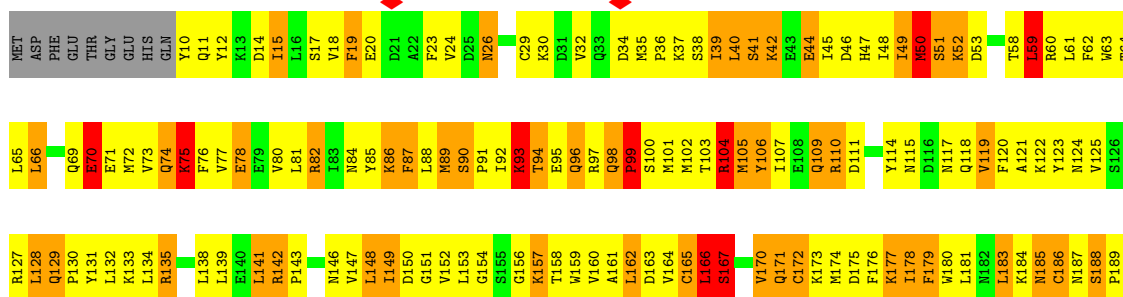


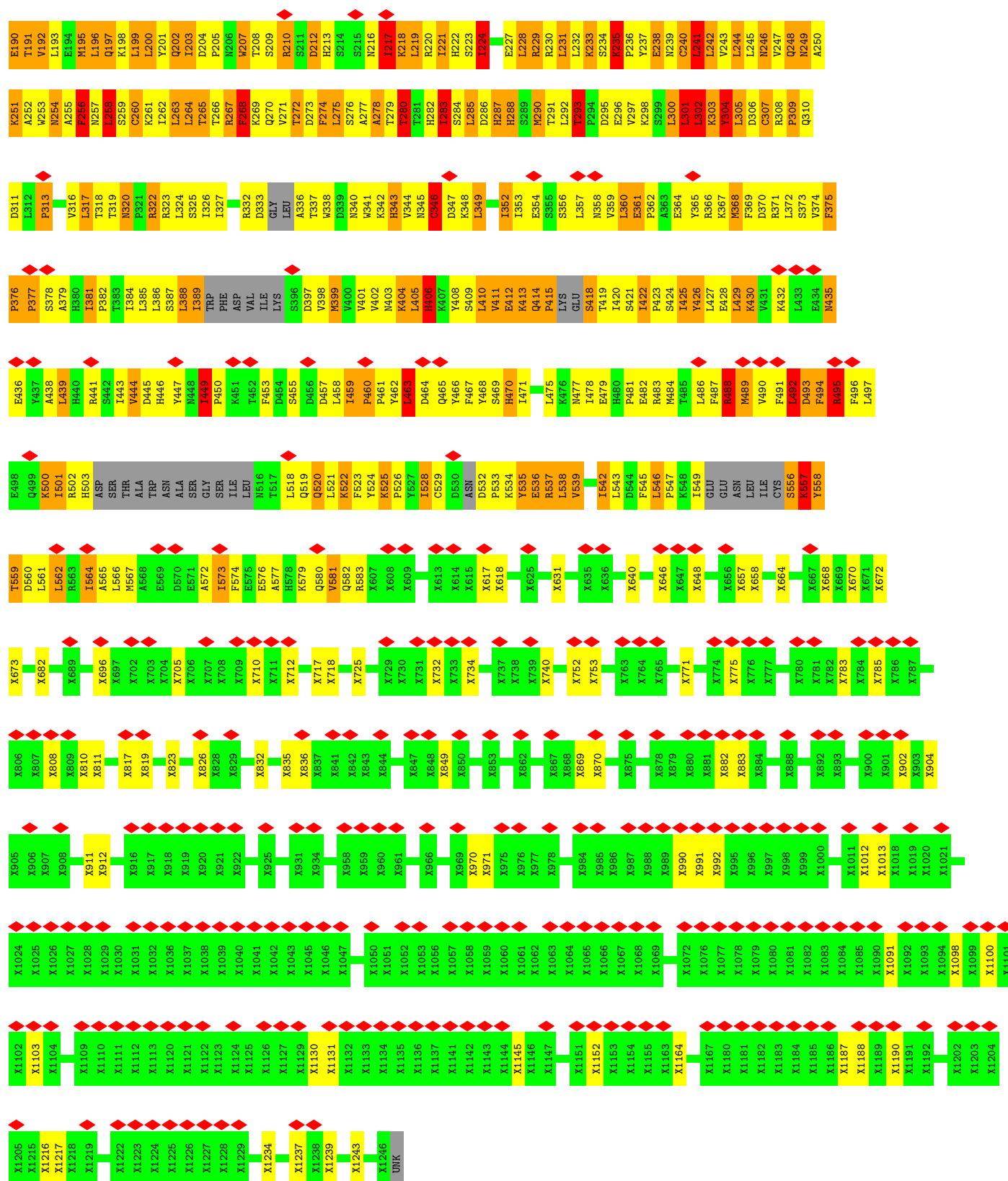
• Molecule 1: Apaf-1 related killer DARK





• Molecule 1: Apaf-1 related killer DARK

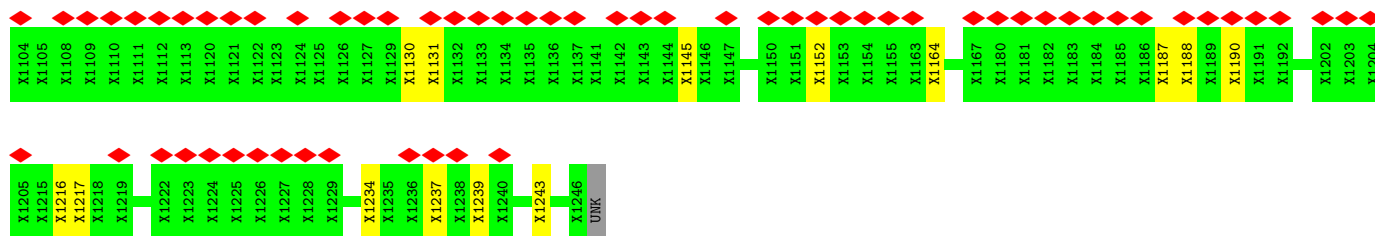




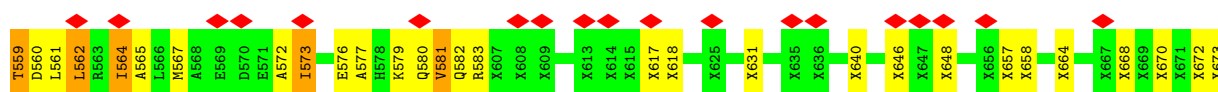
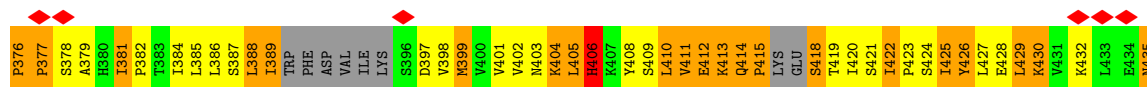
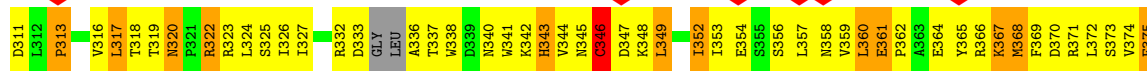
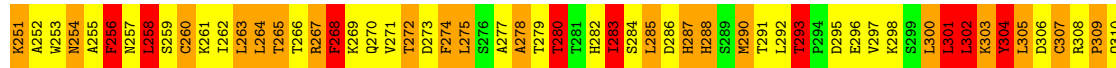
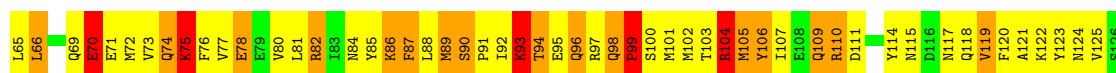
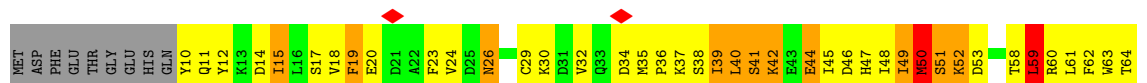
• Molecule 1: Apaf-1 related killer DARK

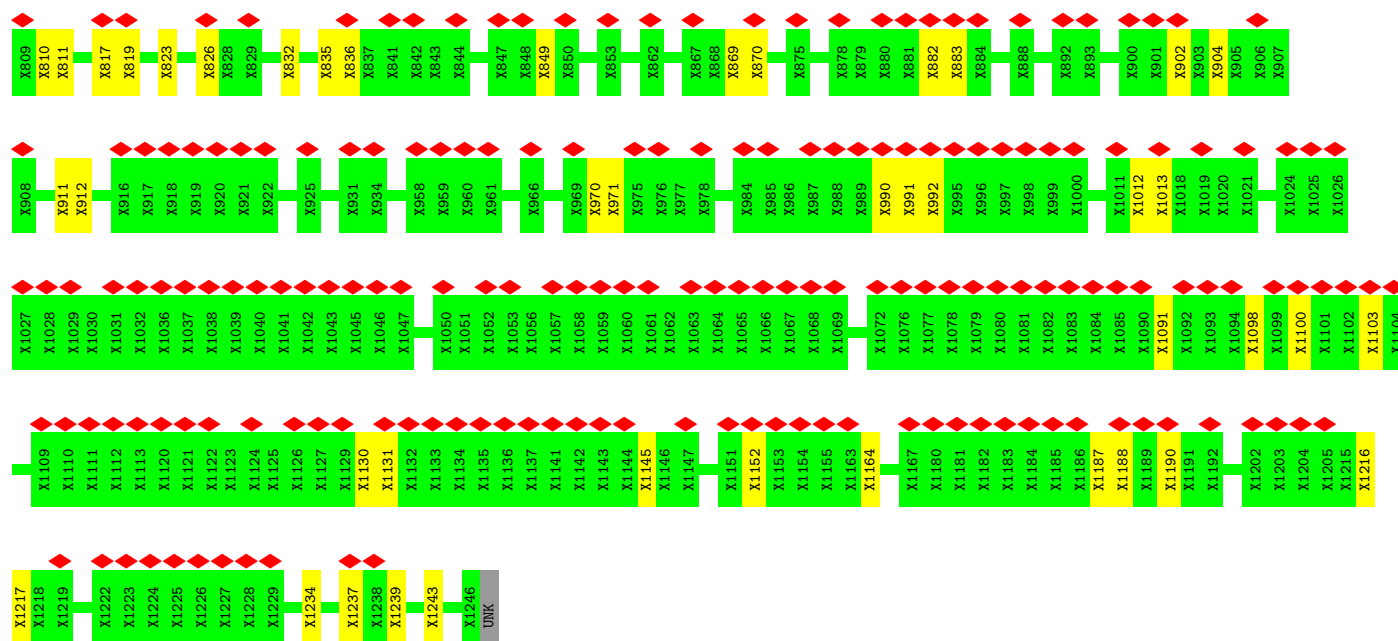




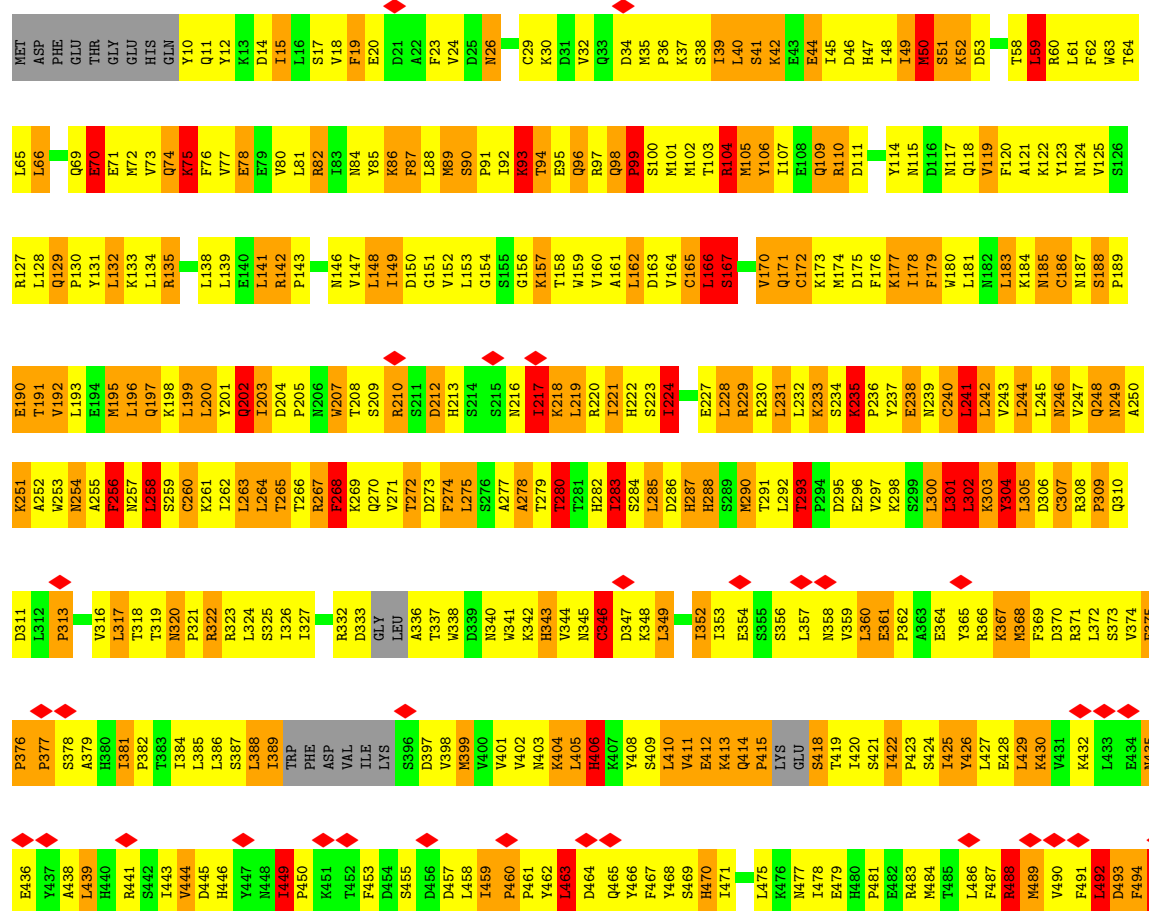


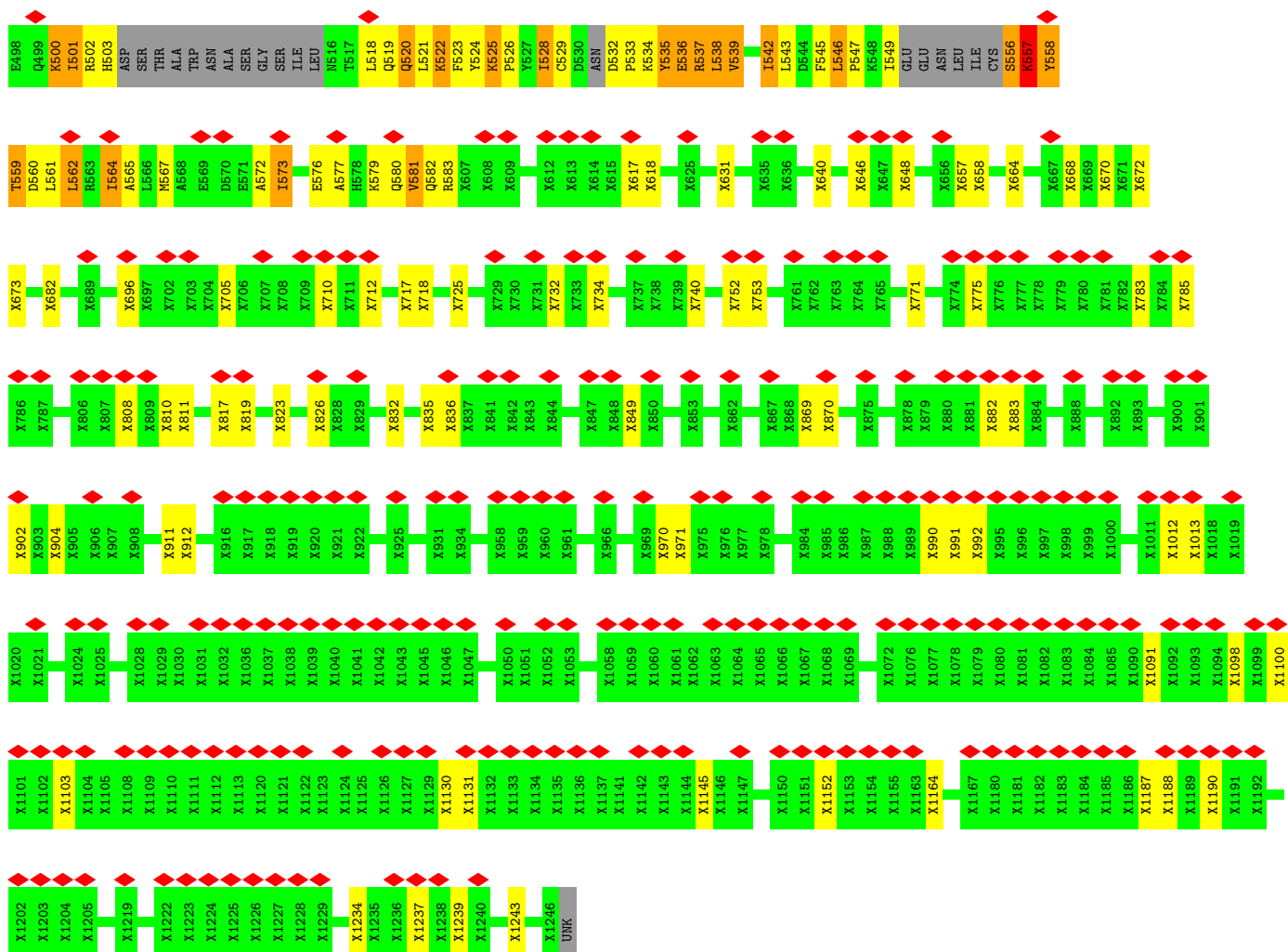
• Molecule 1: Apaf-1 related killer DARK



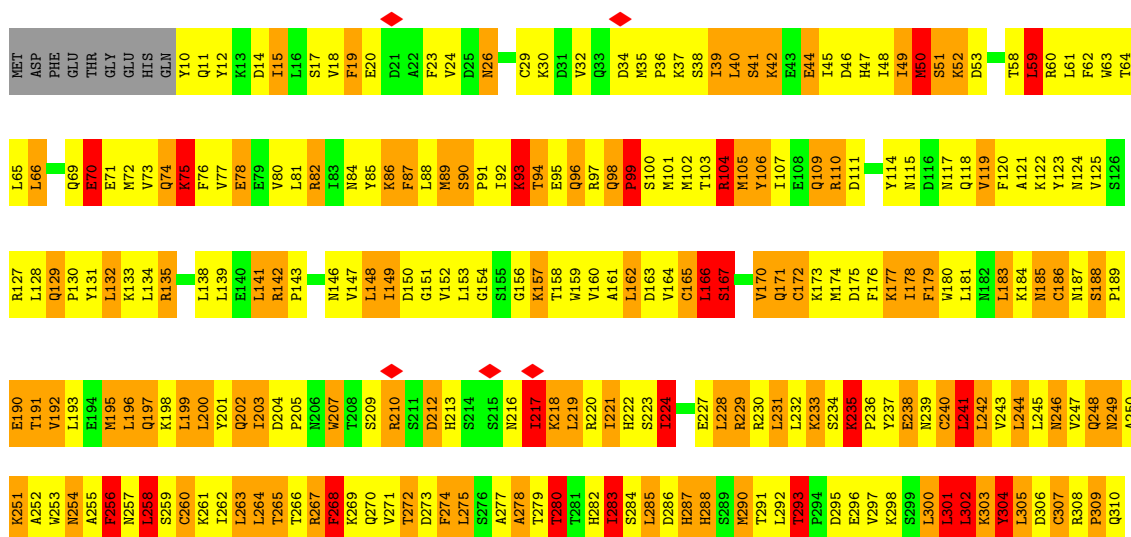


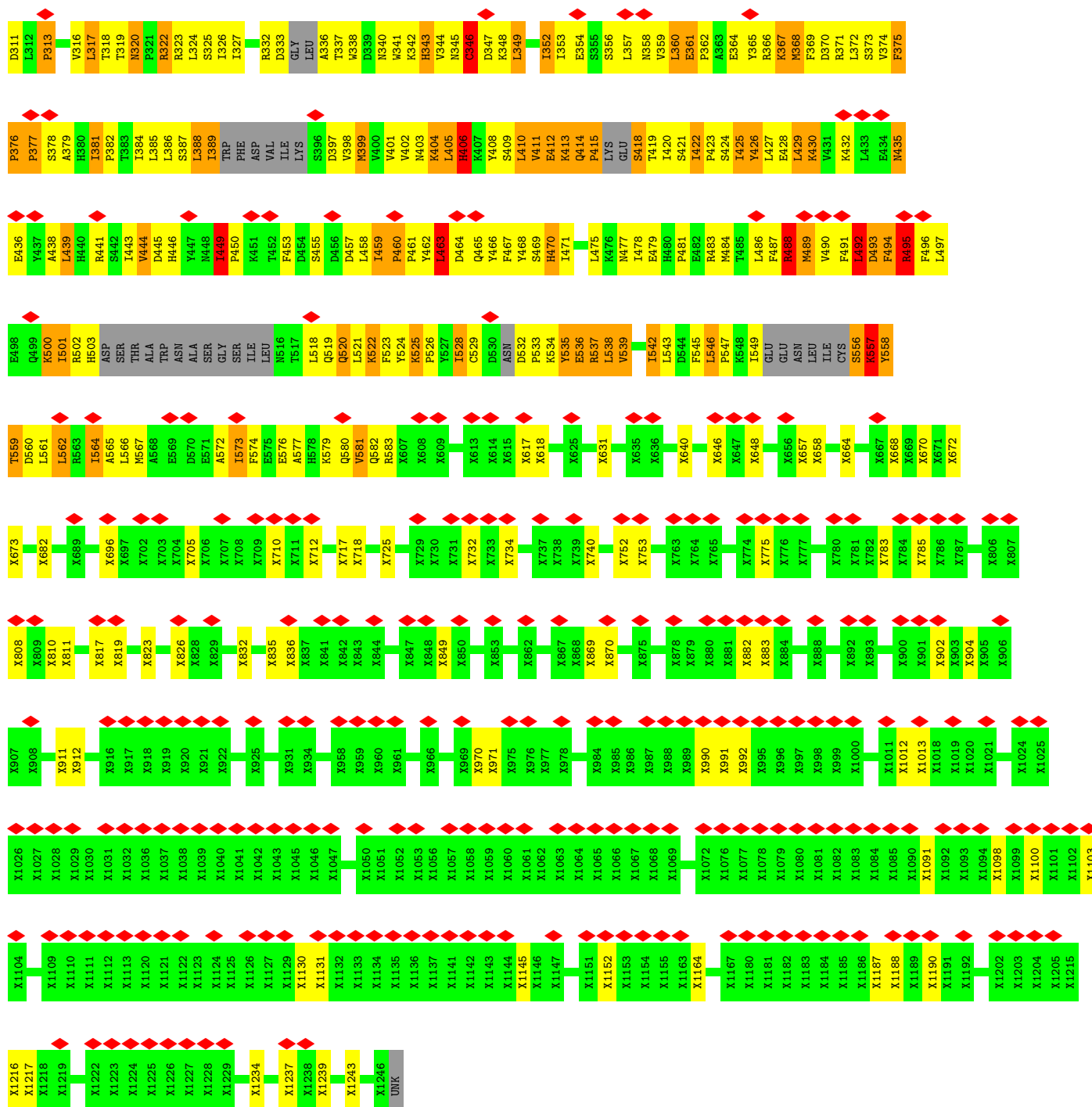
• Molecule 1: Apaf-1 related killer DARK



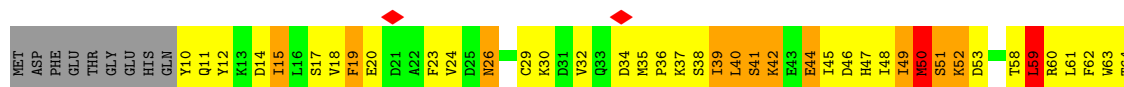


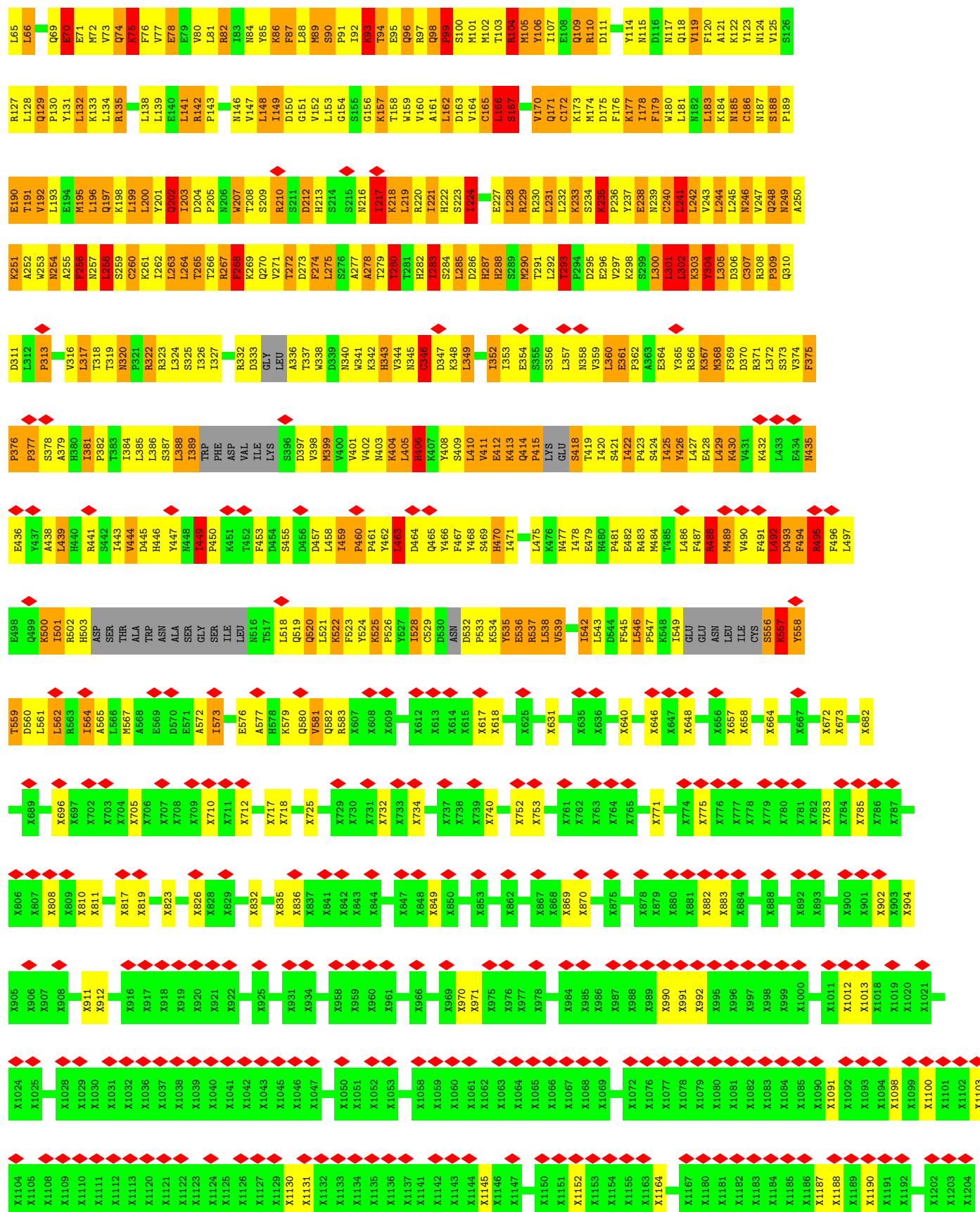
• Molecule 1: Apaf-1 related killer DARK

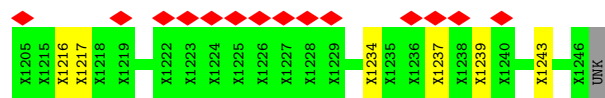




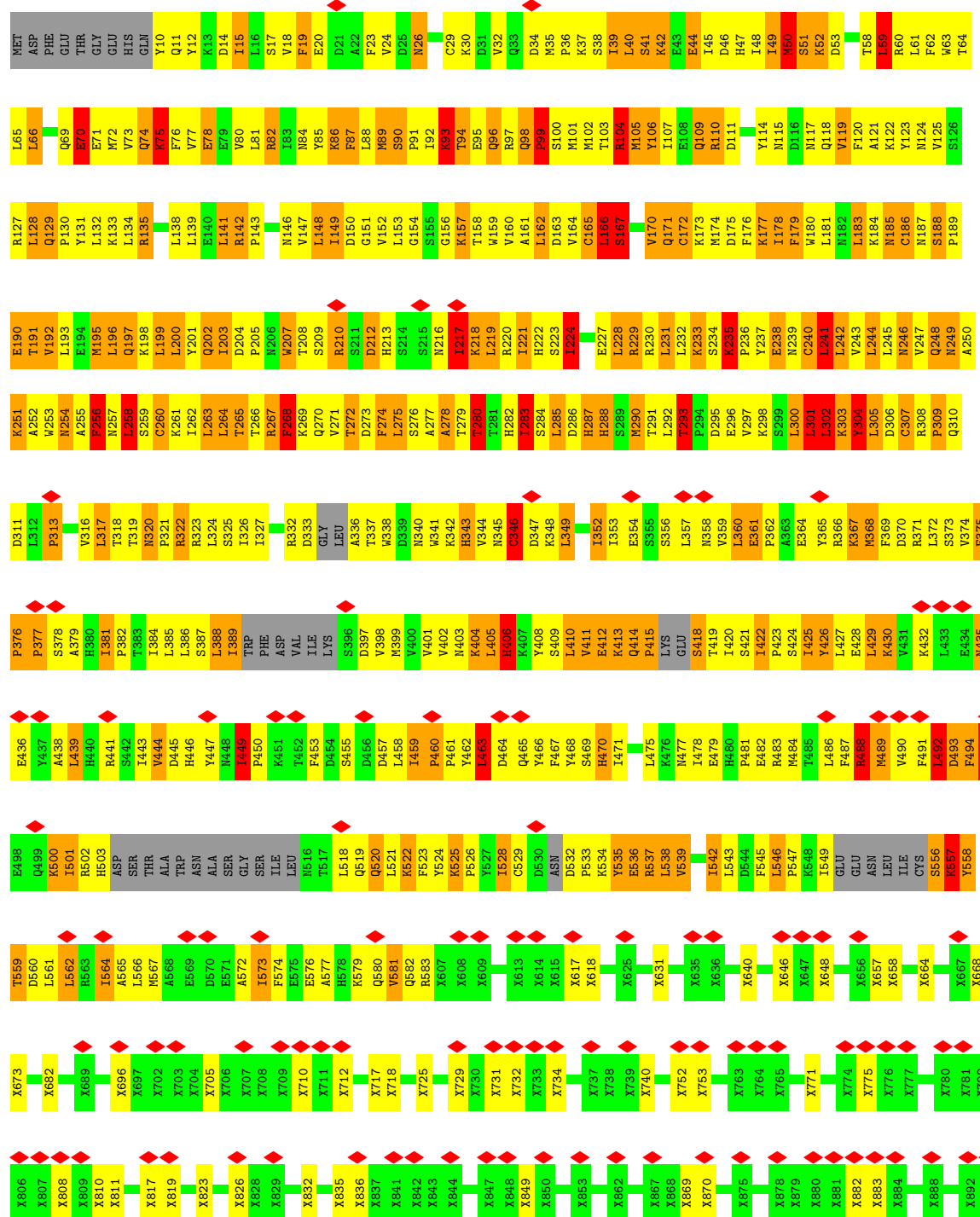
• Molecule 1: Apaf-1 related killer DARK

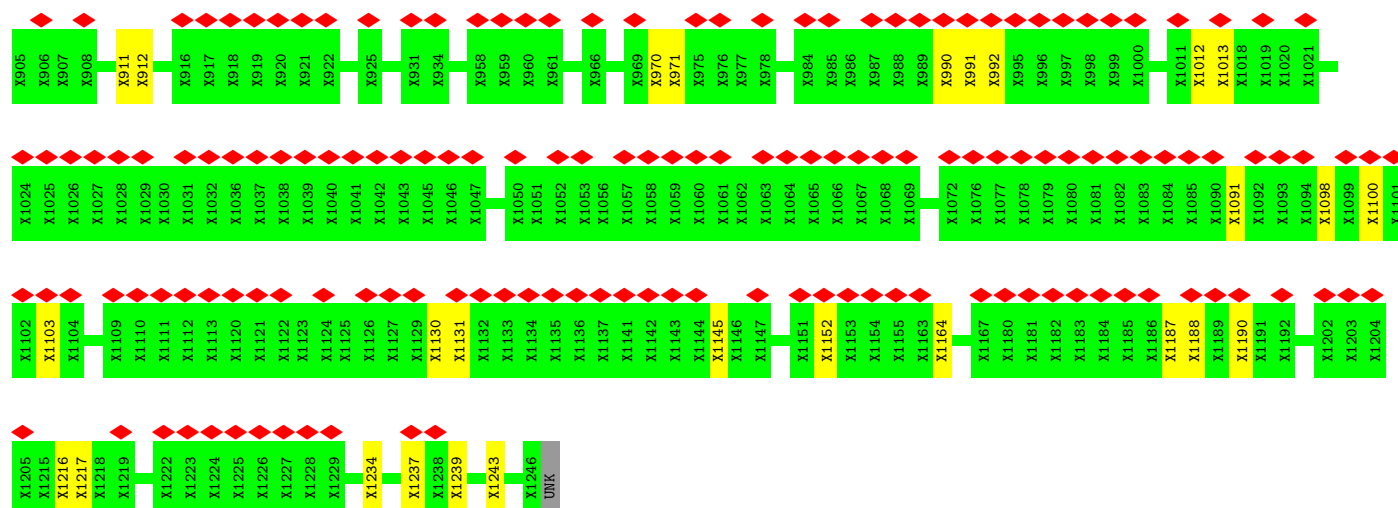




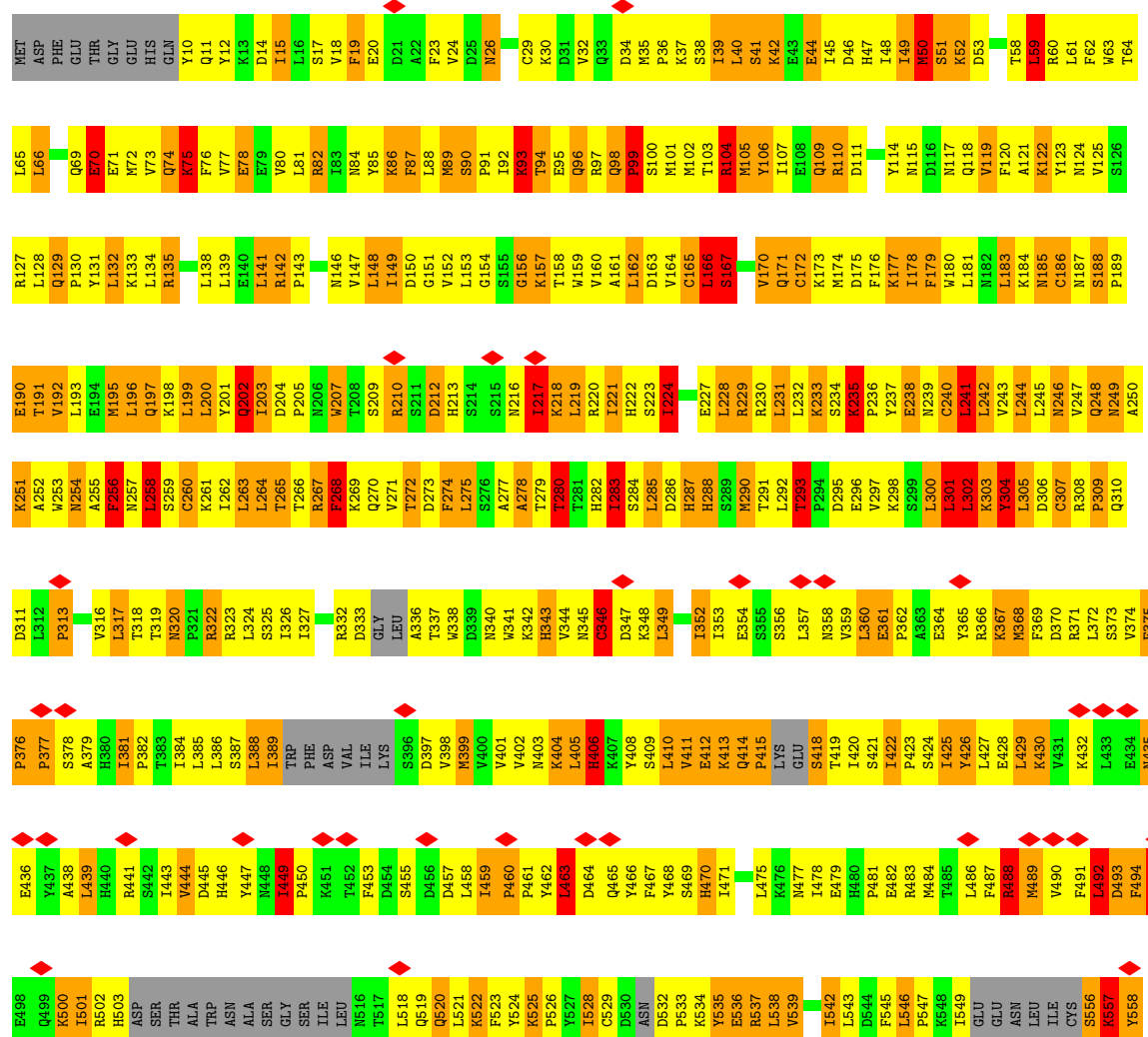


• Molecule 1: Apaf-1 related killer DARK

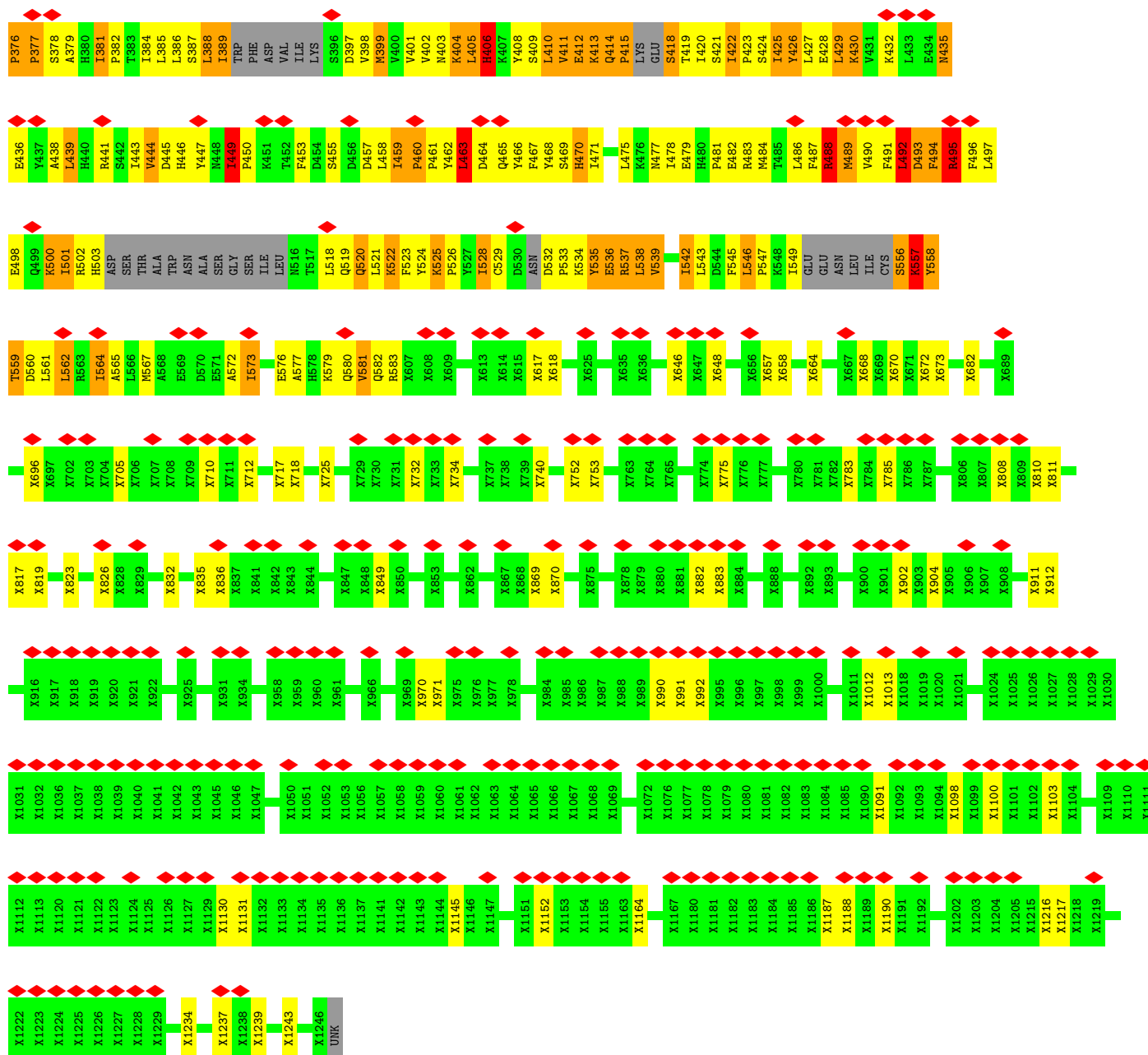




• Molecule 1: Apaf-1 related killer DARK







[illegible]

- Molecule 2: Caspase Nc



MET	GLN	THR	VAL	LYS	TYR	SER	M62
THR	LEU	LEU	ASN	LEU	LYS	ARG	D63
GLY	CVS	THR	LYS	THR	MET	LYS	E64
ALA	TYR	MET	PRO	MET	GLN	SER	R65
TYR	ALA	VAL	LYS	VAL	ARG	ASP	R68
ASN	ASN	THR	LEU	THR	PHE	ILE	V69
ASP	THR	ASN	LEU	THR	ASN	VAL	E70
ASN	THR	THR	MET	SER	ASN	VAL	Q71
LEU	PRO	GLY	PHE	SER	ARG	THR	R72
GLY	GLY	PRO	PRO	SER	GLY	THR	R73
PHE	PHE	THR	PHE	TYR	VAL	VAL	R74
ASN	ASN	VAL	CYS	VAL	LEU	SER	L75
LYS	LYS	THR	ARG	GLN	LEU	PRO	L76
LYS	ASN	HIS	GLY	ASN	MET	GLU	L77
LEU	LEU	THR	ASP	THR	VAL	ALA	R78
THR	PHE	GLY	GLU	GLU	ASN	SER	R79
PHE	TYR	LEU	TYR	CYS	ILE	GLU	T80
ASN	ASN	ASP	ASP	PHE	MET	GLY	Q81
PRO	PRO	THR	LEU	VAL	ASP	PRO	R82
GLY	GLY	GLY	LEU	VAL	TYR	CYS	R83
PHE	PHE	THR	HIS	VAL	PRO	ASN	R84
ASN	ASN	TYR	LYS	LEU	ASP	SER	T85
GLU	GLU	ILE	ASN	MET	GLN	LEU	A86
		GLN	GLN	HIS	ARG	ARG	Y87
		LYS	GLY	GLY	ARG	ASN	N88
		PHE	ASN	ASN	ARG	GLU	L89
		CYS	MET	SER	ILE	PRO	L90
		GLN	LEU	VAL	GLY	LEU	I91
		VAL	GLU	GLY	ALA	GLY	N92
		MET	PRO	GLY	GLU	ALA	A93
		ALA	VAL	LYS	LYS	THR	I94
		THR	THR	GLU	ASP	THR	I97
		HIS	ALA	LYS	LYS	TYR	R98
		ASP	GLN	GLU	SER	VAL	C99
		HIS	GLU	GLU	GLY	GLY	L100
		THR	GLU	PHE	ILE	VAL	
		ASP	GLY	CYS	ILE	VAL	
		LYS	LYS	ASP	HIS	VAL	L105
		TRP	PRO	GLY	LEU	VAL	L106
		GLU	PRO	SER	PHE	GLY	E107
		ASP	ASP	VAL	GLN	PRO	Q108
		ILE	THR	VAL	LEU	VAL	G109
		LEU	GLN	ASP	GLU	VAL	D110
		LYS	THR	MET	ASN	LYS	E111
		GLY	GLU	GLN	PHE	LYS	SER
		THR	GLY	LYS	THR	SER	ASP
		SER	ILE	ILE	ILE	LYS	R48
		GLU	PRO	LYS	PHE	LYS	L49
		ALA	SER	ASP	PRO	ILE	R50
		VAL	PRO	HIS	TYR	HIS	N51
		GLY	SER	PHE	GLY	PRO	T52
		ASN	THR	GLN	ASN	GLY	Q53
		LYS	ASN	THR	VAL	ASP	D54
		ARG	VAL	ALA	THR	ILE	L55
		THR	PRO	ALA	ASN	SER	R56
		ARG	VAL	LYS	GLN	ILE	G57
		LYS	SER	CYS	ASP	ALA	K58
		LYS	LEU	LYS	GLY	GLU	P59
		GLY	LEU	PRO	THR	ARG	F60
		ASP	ALA	TYR	PHE	THR	R61
		ASP	ASP	LEU	THR	ARG	N62

- Molecule 2: Caspase Nc

[illegible]

GLY	SER	GLY	ALA	TYR	PHE	GLY
SER	THR	ASP	ASP	VAL	PHE	THR
THR	MET	THR	THR	VAL	LEU	LYS
GLN	GLM	LEU	VAL	LYS	LEU	MET
THR	THR	VAL	CYS	PRO	THR	GLN
GLY	ALA	CYS	TYR	LYS	MET	SER
ALA	TYR	TYR	ALA	VAL	VAL	ARG
ARG	THR	ASN	ASN	LEU	THR	PHE
ASP	ASN	THR	THR	MET	SER	ASN
ASN	ASN	PRO	PRO	PHE	SER	ARG
LEU	GLY	GLY	GLY	PRO	SER	GLY
GLY	LEU	TYR	TYR	PHE	TYR	VAL
LEU	PHE	THR	THR	PHE	THR	VAL
LEU	ASN	VAL	VAL	CYS	GLN	LEU
LEU	LYS	THR	THR	ARG	VAL	LEU
LEU	LYS	HIS	HIS	GLY	ASN	MET
LEU	LEU	ARG	ARG	ASP	THR	VAL
LEU	TYR	ASP	ASP	GLU	GLU	ASN
PHE	PHE	LEU	LEU	TYR	CYS	ILE
ASN	PRO	THR	THR	GLY	VAL	ASP
ASN	THR	THR	THR	GLY	MET	TYR
GLU	PHE	THR	SER	HIS	VAL	PRO
		TRP	SER	PRO	LEU	ASP
		TYR	TYR	LYS	MET	GLN
		ILE	ILE	ASN	THR	ASN
		LYS	LYS	GLN	HIS	ARG
		PHE	PHE	GLY	GLY	ARG
		CYS	CYS	ASN	SER	ARG
		LEU	LEU	LEU	THR	ILE
		GLN	GLN	LEU	VAL	GLY
		THR	THR	GLU	VAL	ALA
		ASP	ASP	TRP	VAL	GLY
		THR	THR	GLY	GLN	THR
		ASN	ASN	GLY	LYS	ASN
		THR	THR	THR	THR	THR
		VAL	VAL	PRO	ASN	ASN
		GLY	GLY	SER	PHE	GLY
		ASN	ASN	THR	THR	ASN
		THR	THR	ASN	GLN	VAL
		THR	THR	THR	THR	THR
		VAL	VAL	VAL	VAL	GLN
		THR	THR	PRO	LYS	ASN
		ASN	ASN	SER	CYS	GLN
		LYS	LYS	LEU	THR	ASN

- Molecule 2: Caspase Nc



LYS	LEU	PRO	GLN	LEU	ARG	M62	MET
GLY	ALA	TYR	PHE	GLY	ARG	D63	GLN
SER	LEU	LEU	PHE	THR	THR	E64	PRO
MET	THR	VAL	LYS	TYR	SER	K65	PRO
GLN	LEU	ASN	LEU	LYS	ARG	D66	GLU
THR	VAL	LYS	LEU	MET	LYS	V67	LEU
GLY	CYS	PRO	THR	GLN	SER	R68	GLU
ALA	TYR	LYS	MET	SER	ALA	V69	ILE
TYR	ALA	VAL	VAL	ARG	ASP	E70	ASP
ASP	ASN	LEU	THR	PHE	ILE	Q71	GLY
ASN	THR	MET	SER	ASN	VAL	H72	P11
PRO	PRO	PHE	SER	ARG	ASP	R73	K12
GLY	GLY	PRO	SER	GLY	THR	R74	R13
PHE	TYR	PHE	TYR	VAL	THR	L75	H14
ASN	VAL	CYS	VAL	LEU	SER	L76	R15
LYS	THR	ARG	GLN	LEU	PRO	L77	E16
LYS	HIS	GLY	ASN	MET	GLU	K78	H17
LEU	ARG	ASP	THR	VAL	ALA	L79	I18
TYR	ASP	GLU	GLU	ASN	SER	T80	R19
PHE	LEU	TYR	CYS	ILE	GLU	Q81	K20
ASN	ASN	ASP	PHE	MET	GLY	R82	N21
PRO	THR	LEU	VAL	ASP	PRO	G83	L22
GLY	GLY	GLY	MET	TYR	CYS	P84	N23
SER	SER	HIS	VAL	PRO	VAL	T85	T24
PHE	THR	PRO	LEU	ASP	SER	A86	L25
PHE	ASN	LYS	MET	GLN	LYS	V87	V26
GLU	ILE	ASN	THR	ASN	LEU	N88	E27
	GLN	GLN	HIS	ARG	LEU	L89	N28
LYS	LYS	GLY	GLY	ARG	ASN	L90	T29
PHE	PHE	ASN	ASN	ARG	GLU	L91	R30
CYS	CYS	LEU	SER	ILE	PRO	N92	E31
VAL	VAL	MET	VAL	GLN	GLY	A93	E32
GLU	GLU	PRO	GLY	ALA	GLY	L94	R33
MET	MET	PRO	GLY	GLU	ALA		L34
ALA	ALA	VAL	LYS	LYS	LEU		A35
ASP	ASP	TYR	GLU	ASP	THR	I97	R36
HIS	HIS	THR	LYS	SER	THR	N98	E37
ALA	ALA	ALA	VAL	LYS	TYR	C99	C38
HIS	HIS	GLN	GLU	SER	VAL	L100	V39
GLU	GLU	GLU	PHE	LEU	GLY	D101	
THR	THR	GLU	CYS	ILE	VAL		Q40
ASP	ASP	LYS	ASP	HIS	VAL	V104	Q41
LEU	LEU	PRO	GLY	LEU	ASP	L105	G42
PRO	GLU	THR	PRO	PHE	GLY	L106	L43
ASP	ASP	ASP	VAL	GLN	PRO	E107	L44
THR	ILE	THR	VAL	GLU	GLU	S108	T45
GLN	LEU	GLN	MET	LEU	VAL	V109	
LYS	LYS	THR	ASP	ASN	LYS	D110	M48
THR	THR	GLU	GLN	PHE	LYS	E111	L49
THR	THR	ILE	LYS	THR	SER		R50
GLU	GLU	ILE	ILE	ILE	ASP		N51
GLU	GLU	PRO	LYS	PHE	SER		O53
ALA	ALA	SER	PRO	PRO	ARG		D54
VAL	VAL	PRO	HIS	TYR	ILE		L55
GLY	GLY	THR	PHE	GLY	HIS		R56
ASN	ASN	SER	GLN	GLY	ASP		O57
LYS	LYS	THR	THR	ASN	ILE		K58
ARG	ARG	VAL	ALA	VAL	SER		P59
THR	THR	PRO	LYS	GLN	LEU		F60
LYS	LYS	SER	CYS	ASP	ALA		N61

- Molecule 2: Caspase Nc

[illegible]

[illegible]

- Molecule 2: Caspase Nc



LYS	LEU	PRO	GLN	LEU	ARG	M62
	ALA	TYR	PHE	GLY	THR	D63
GLY	SER	LEU	PHE	THR	ARG	E64
GLN	THR	VAL	LYS	TYR	SER	K65
THR	VAL	ASN	LEU	LYS	ARG	D66
GLY	CYS	LYS	LEU	MET	LYS	M67
ALA	TYR	PRO	THR	GLN	SER	R68
TYR	ASN	LYS	MET	SER	ALA	M69
ASP	VAL	VAL	THR	ARG	E70	
ASN	THR	LEU	THR	PHE	ILE	Q71
LEU	PRO	MET	SER	ASN	VAL	H72
GLY	GLY	PHE	SER	ARG	ASP	R73
PHE	TYR	THR	SER	GLY	THR	R74
ASN	VAL	CYS	VAL	VAL	PRO	L75
LYS	THR	GLN	ASN	LEU	PRO	L76
THR	GLY	GLY	ASN	MET	PRO	L77
LEU	ARG	ASP	THR	VAL	ALA	K78
LEU	ASP	GLU	GLU	ASN	SER	L79
TYR	ASP	TYR	GLY	ASN	SER	T80
PHE	ASN	GLY	LEU	ILE	GLY	Q81
ASN	ASP	LEU	PHE	MET	PRO	R82
PRO	THR	LEU	VAL	ASP	GLY	C83
GLY	GLY	GLY	MET	TYR	CYS	P84
PHE	SER	HIS	VAL	PRO	VAL	T85
PHE	TRP	PRO	LEU	ASP	SER	A86
ASN	TYR	LYS	MET	GLN	THR	N87
GLU	GLN	GLN	HIS	ARG	LEU	N88
	LYS	GLY	GLY	ARG	ASN	L89
	PHE	ASN	ASN	GLY	GLU	L90
	GLN	LEU	SER	ILE	PRO	I91
	GLN	MET	SER	GLY	PRO	N92
	VAL	LEU	VAL	ILE	LEU	A93
	MET	PRO	GLY	ALA	GLY	L94
	ALA	VAL	LYS	LYS	LEU	
	ASP	TYR	GLU	ASP	THR	I97
	HIS	THR	LYS	PRO	PRO	N98
	ALA	ALA	VAL	LYS	TYR	C99
	HIS	GLN	GLU	SER	VAL	L100
	ASP	GLU	PHE	LEU	GLY	D101
	THR	GLU	CYS	ILE	VAL	
	ASP	LYS	ASP	HIS	VAL	V104
	LEU	TRP	GLY	LEU	ASP	L105
	GLU	PRO	SER	PHE	GLY	L106
	ASP	ASP	VAL	GLN	PRO	E107
	ILE	THR	VAL	GLU	PRO	S108
	LEU	GLN	ASP	LEU	VAL	V109
	LYS	THR	MET	ASN	LYS	D110
	LYS	GLU	GLN	PHE	LYS	E111
	THR	ILE	LYS	THR	SER	SER
	GLU	ILE	ILE	ILE	LYS	ASP
	PRO	SER	LYS	PHE	SER	Q53
	ALA	GLN	ASP	PRO	ILE	D54
	VAL	PRO	HIS	TYR	HIS	L55
	GLY	THR	PHE	GLY	GLY	M56
	ASN	SER	GLN	ASN	ASP	P57
	THR	VAL	ALA	VAL	ILE	K58
	THR	ARG	ARG	ASN	SER	P59
	LYS	PRO	LYS	LEU	SER	L59
	THR	ASN	CYS	GLN	ASN	A59

- Molecule 2: Caspase Nc



THR	SER	ARG	GLY	ASP	ILE	VAL	THR	PRO	SER	ALA	GLY	GLY	GLY	PRO	CYS	VAL	SER	LYS	LEU	ASN	GLU	PRO	LEU	THR	TYR	VAL	GLY	VAL	VAL	ASP	GLY	PRO	GLU	VAL	LYS	LYS	SER	LYS	ARG	T52	Q63	PRO	D54	PHE	ILE	SER	LEU	ASN	GLU	ARG								
M62	D63	E64	K65	D66	V67	R68	V69	E70	Q71	H72	R73	R74	L75	L76	L77	K78	I79	T80	Q81	R82	G83	P84	T85	A86	Y87	N88	L89	L90	I91	N92	A93	L94	I97	N98	C99	L100	L105	L106	E107	L108	S109	D110	E111	SER	ASP	SER	ARG	T52	Q63	PRO	D54	PHE	ILE	SER	LEU	ASN	GLU	ARG
THR	SER	ARG	GLY	ASP	ILE	VAL	THR	PRO	SER	ALA	GLY	GLY	GLY	PRO	CYS	VAL	SER	LYS	LEU	ASN	GLU	PRO	LEU	THR	TYR	VAL	GLY	VAL	VAL	ASP	GLY	PRO	GLU	VAL	LYS	LYS	SER	LYS	ARG	T52	Q63	PRO	D54	PHE	ILE	SER	LEU	ASN	GLU	ARG								
MET	GLM	PRO	PRO	GLU	LEU	ILE	GLY	M10	P11	K12	R13	H14	E16	H17	I18	R19	K20	N21	L22	N23	I24	L25	V26	E27	W28	T29	N30	Y31	E32	R33	L34	A35	M36	E37	C38	V39	Q40	Q41	G42	I43	L44	T45	M43	L49	R50	N51	T52	Q63	PRO	D54	PHE	ILE	SER	LEU	ASN	GLU	ARG	

[illegible]

- Molecule 2: Caspase Nc

[illegible]

- Molecule 2: Caspase Nc

[illegible]

Met	Thr	Val	Lys	Tyr
Gln	Leu	Asn	Leu	Lys
Thr	Val	Lys	Leu	Met
Gly	Cys	Pro	Thr	Gln
Ala	Tyr	Lys	Met	Ser
Tyr	Ala	Val	Val	Arg
Asp	Asn	Leu	Thr	Phe
Asn	Thr	Met	Ser	Asn
Leu	Pro	Phe	Ser	Gly
Gly	Gly	Pro	Ser	Val
Phe	Tyr	Phe	Tyr	Leu
Asn	Val	Cys	Val	Leu
Lys	Thr	Arg	Gln	Leu
Lys	His	Gly	Asn	Met
Leu	Arg	Asp	Thr	Val
Thr	Asp	Glu	Glu	Asn
Phe	Leu	Tyr	Cys	Ile
Asn	Asp	Asp	Phe	Met
Pro	Thr	Leu	Val	Asp
Gly	Gly	Gly	Met	Tyr
Phe	Ser	His	Val	Pro
Phe	Trp	Pro	Leu	Asp
Asn	Tyr	Lys	Met	Gln
Glu	Ile	Asn	Thr	Asn
	Gln	Gln	His	Arg
	Lys	Gly	Gly	Arg
	Phe	Asn	Asn	Arg
	Cys	Leu	Ser	Ile
	Gln	Met	Val	Gly
	Val	Glu	Glu	Ala
	Met	Pro	Gly	Glu
	Ala	Val	Lys	Lys
	Asp	Tyr	Glu	Asp
	His	Thr	Lys	Ser
	Ala	Ala	Val	Lys
	His	Gln	Glu	Ser
	Asp	Glu	Phe	Ser
	Thr	Glu	Trp	Gly
	Leu	Pro	Ser	Leu
	Asp	Asp	Val	Phe
	Ile	Thr	Val	Gln
	Lys	Leu	Asp	Glu
	Lys	Thr	Met	Asn
	Lys	Glu	Gln	Phe
	Thr	Gly	Lys	Thr
	Ser	Ile	Ile	Ile
	Glu	Pro	Lys	Phe
	Ala	Ser	Asp	Pro
	Val	Pro	His	Tyr
	Gly	Ser	Phe	Gly
	Asn	Thr	Gln	Asn
	Lys	Asn	Thr	Val
	Arg	Val	Ala	Asn
	Thr	Pro	Lys	Gln
	Lys	Ser	Cys	Asp
	Lys	Lys	Pro	Gln
	Gly	Leu	Pro	Gln
	Ser	Ala	Tyr	Phe
	Ser	Asp	Leu	Phe

- Molecule 2: Caspase Nc



Lys	Leu	Pro	Gln	Leu	Arg	M62
Gly	Ala	Tyr	Phe	Gly	Arg	D63
Ser	Asp	Leu	Phe	Thr	Thr	E64
Met	Thr	Val	Lys	Tyr	Ser	R65
Gln	Thr	Asn	Leu	Lys	Arg	D66
Thr	Val	Lys	Leu	Met	Lys	M67
Gly	Cys	Pro	Thr	Gln	Ser	R68
Ala	Tyr	Lys	Met	Ser	Ala	M69
Tyr	Val	Val	Val	Arg	Arg	E70
Asp	Asn	Leu	Thr	Phe	Ile	Q71
Thr	Thr	Met	Ser	Asn	Val	R72
Leu	Pro	Phe	Ser	Arg	Asp	K73
Gly	Gly	Pro	Ser	Gly	Thr	R74
Phe	Tyr	Phe	Tyr	Val	Pro	L75
Asn	Val	Cys	Val	Leu	Ser	R15
Lys	Thr	Arg	Gln	Leu	Pro	L77
Lys	His	Gly	Asn	Met	Glu	K78
Leu	Arg	Asp	Thr	Val	Ala	L79
Leu	Asp	Glu	Glu	Asn	Ser	T80
Tyr	Asp	Tyr	Leu	Cys	Glu	Q81
Phe	Asn	Asp	Phe	Met	Arg	R82
Asn	Thr	Leu	Val	Asp	Pro	G83
Pro	Thr	Gly	Val	Met	Cys	P84
Gly	Gly	Gly	Met	Tyr	Val	T24
Phe	Ser	His	Val	Pro	Cys	T85
Phe	Trp	Pro	Val	Asp	Ser	A86
Asn	Tyr	Lys	Met	Gln	Leu	R87
Asn	Tyr	Asn	Thr	Leu	Leu	N88
Glu	Gln	Gln	His	Arg	Arg	L89
Lys	Lys	Lys	Gly	Arg	Asn	L90
Phe	Phe	Asn	Asn	Arg	Glu	I91
Cys	Cys	Met	Ser	Ile	Pro	N92
Val	Met	Leu	Val	Gly	Gly	A93
Met	Val	Glu	Glu	Ala	Gly	L94
Pro	Met	Pro	Gly	Glu	Ala	
Ala	Val	Val	Lys	Lys	Leu	I97
Asp	Asp	Tyr	Glu	Asp	Thr	M98
His	His	Thr	Lys	Ser	Pro	C99
Ala	Ala	Ala	Val	Lys	Tyr	L100
His	His	Gln	Glu	Ser	Val	D101
Glu	Glu	Glu	Phe	Leu	Gly	
Thr	Thr	Glu	Cys	Ile	Val	V104
Asp	Asp	Lys	Asp	His	Val	L105
Leu	Leu	Trp	Gly	Leu	Val	L106
Pro	Pro	Pro	Ser	Phe	Gly	E107
Asp	Asp	Asp	Val	Gln	Pro	M108
Thr	Thr	Thr	Val	Glu	Glu	V109
Gln	Gln	Thr	Asp	Leu	Val	D110
Leu	Leu	Thr	Met	Asn	Lys	
Lys	Lys	Glu	Gln	Phe	Lys	E111
Thr	Thr	Gly	Lys	Thr	Ser	Ser
Ser	Ile	Ile	Ile	Ile	Asp	T52
Pro	Pro	Pro	Lys	Ser	Arg	Q53
Ala	Ala	Ser	Asp	Ile	Arg	D54
Val	Val	Pro	His	Tyr	Pro	L55
Gly	Gly	Thr	Phe	Gly	Pro	M56
Asn	Asn	Ser	Gln	Asn	Phe	G57
Lys	Lys	Thr	Thr	Val	Ile	K58
Arg	Arg	Val	Ala	Asn	Ser	P59
Thr	Thr	Pro	Lys	Asn	Ser	F60
Tyr	Tyr	Ser	Cys	Gln	Leu	M61
					Asn	N62

- Molecule 2: Caspase Nc

[illegible]

GLY	GLY	ALA	TTR	PHE	GLY
SER	SER	ASP	VAL	PHE	PHE
MET	MET	THR	VAL	THR	THR
GLN	GLN	LEU	ASN	LEU	LYS
THR	THR	VAL	LYS	LEU	MET
GLY	GLY	CYS	PRO	THR	GLN
ALA	ALA	TYR	LYS	MET	SER
TYR	TYR	THR	VAL	VAL	ARG
ASP	ASP	ASN	LEU	THR	PHE
ASN	ASN	THR	MET	SER	ASN
LEU	LEU	PRO	PHE	SER	ARG
GLY	GLY	GLY	PRO	SER	GLY
PHE	PHE	TYR	PHE	TYR	VAL
ASN	ASN	VAL	CYS	VAL	LEU
LYS	LYS	THR	ARG	GLN	LEU
LEU	LEU	HIS	GLY	ASN	MET
TYR	TYR	ARG	ASP	THR	VAL
PHE	PHE	ASP	GLU	GLU	ASN
ASN	ASN	LEU	TYR	CYS	ILE
GLU	GLU	THR	ASP	PHE	MET
		ILE	ASN	THR	ASN
		LYS	GLN	HIS	ARG
		PHE	ASN	GLY	ARG
		CYS	LEU	SER	ILE
		GLN	MET	VAL	GLY
		VAL	GLU	GLU	ALA
		MET	PRO	GLY	GLU
		ALA	VAL	LYS	LYS
		ASP	TYR	GLU	ASP
		HIS	THR	LYS	SER
		ALA	ALA	VAL	LYS
		HIS	GLN	GLU	SER
		ASP	GLU	PHE	LEU
		THR	GLU	CYS	ILE
		ASP	LYS	ASP	HIS
		LEU	TRP	GLY	LEU
		GLU	PRO	GLY	LEU
		ASP	ASP	VAL	GLN
		ILE	THR	VAL	GLU
		LEU	GLN	ASP	LEU
		LYS	THR	MET	ASN
		LYS	GLU	GLN	PHE
		THR	GLY	LYS	THR
		SER	ILE	ILE	ILE
		GLU	PRO	LYS	PHE
		ALA	SER	ASP	PRO
		VAL	PRO	HIS	TYR
		GLY	SER	PHE	GLY
		ASN	THR	GLN	ASN
		ARG	VAL	THR	VAL
		THR	PRO	LYS	GLN
		LYS	SER	CYS	ASN
		LYS	LEU	PRO	GLN

- Molecule 2: Caspase Nc



MET	GLN	THR	VAL	LYS	TYR	SER	M62
THR	LEU	LEU	ASN	LEU	LYS	ARG	D63
GLY	CVS	THR	LYS	THR	MET	LYS	E64
ALA	TYR	MET	PRO	MET	GLN	SER	R65
TYR	ALA	VAL	LYS	VAL	ARG	ASP	R68
ASN	ASN	THR	LEU	THR	PHE	ILE	V69
ASP	THR	ASN	LEU	THR	ASN	VAL	E70
ASN	THR	THR	MET	SER	ASN	VAL	Q71
LEU	PRO	GLY	PHE	SER	ARG	THR	R72
GLY	GLY	PRO	PRO	SER	GLY	THR	R73
PHE	PHE	THR	PHE	TYR	VAL	VAL	R74
ASN	ASN	VAL	CYS	VAL	LEU	SER	L75
LYS	LYS	THR	ARG	GLN	LEU	PRO	L76
LYS	ASN	HIS	GLY	ASN	MET	GLU	L77
LEU	LEU	ASP	ASP	THR	VAL	ALA	R78
THR	PHE	GLY	GLU	GLU	ASN	SER	R79
PHE	TYR	LEU	TYR	CYS	ILE	GLU	T80
ASN	ASN	ASP	ASP	PHE	MET	GLY	Q81
PRO	PRO	THR	LEU	VAL	ASP	PRO	R82
GLY	GLY	GLY	LEU	VAL	TYR	CYS	R83
PHE	PHE	THR	HIS	VAL	PRO	ASN	R84
ASN	ASN	TYR	LYS	LEU	ASP	SER	T85
GLU	GLU	ILE	ASN	MET	GLN	LEU	A86
		GLN	GLN	HIS	ARG	ARG	Y87
		LYS	GLY	GLY	ARG	ASN	N88
		PHE	ASN	ASN	ARG	GLU	L89
		CYS	ASN	SER	ILE	PRO	L90
		GLN	MET	VAL	GLY	LEU	I91
		VAL	GLU	GLY	ALA	GLY	N92
		MET	PRO	GLY	GLU	ALA	A93
		ALA	VAL	LYS	LYS	THR	I94
		THR	THR	GLU	ASP	THR	I97
		HIS	ALA	LYS	LYS	TYR	R98
		ASP	ALA	VAL	SER	VAL	C99
		HIS	GLN	GLU	GLY	GLY	L100
		THR	GLU	PHE	ILE	VAL	
		ASP	GLU	CYS	ILE	VAL	
		LYS	LYS	ASP	HIS	VAL	L105
		TRP	PRO	GLY	LEU	VAL	L106
		GLU	PRO	SER	PHE	GLY	E107
		ASP	ASP	VAL	GLN	PRO	Q108
		ILE	THR	VAL	LEU	VAL	G109
		LEU	GLN	ASP	GLU	VAL	V110
		LYS	THR	MET	ASN	LYS	D111
		GLY	GLU	GLN	PHE	LYS	E111
		THR	GLY	LYS	THR	SER	ASP
		SER	ILE	ILE	ILE	LYS	ASP
		GLU	PRO	LYS	PHE	LYS	SER
		ALA	SER	ASP	PRO	ILE	R50
		VAL	PRO	HIS	TYR	PRO	N51
		GLY	SER	THR	GLY	HIS	T52
		ASN	THR	PHE	GLY	PRO	Q53
		LYS	ASN	GLN	ASN	GLY	D54
		THR	ASN	THR	VAL	ASP	L55
		ARG	VAL	ALA	ASN	SER	R56
		THR	PRO	LYS	GLN	ASN	G57
		LYS	SER	CYS	ASP	ILE	K58
		LYS	LEU	LYS	GLY	GLU	P59
		GLY	ALA	THR	PHE	ARG	F60
		ASP	ASP	LEU	THR	THR	R61

- Molecule 2: Caspase Nc

[illegible]

THR	VAL	LYS	TYR
LEU	ASN	LEU	LYS
VAL	LYS	LEU	MET
CYS	PRO	THR	GLN
TYR	LYS	MET	SER
ALA	VAL	VAL	ARG
ASN	LEU	THR	PHE
ASN	MET	SER	ASN
THR	LEU	SER	ARG
PRO	PHE	SER	GLY
GLY	PRO	SER	VAL
TYR	PHE	TYR	LEU
VAL	CYS	VAL	LEU
THR	ARG	GLN	LEU
HIS	GLY	ASN	MET
ARG	ASP	THR	VAL
ASP	GLU	GLU	ASN
ASP	TYR	CYS	ILE
LEU	TYR	PHE	MET
ASP	ASP	VAL	ASP
THR	LEU	VAL	TYR
GLY	GLY	MET	TYR
GLY	HIS	VAL	PRO
SER	HIS	LEU	ASP
TRP	PRO	MET	GLN
TYR	LYS	MET	ASN
ILE	ASN	THR	ASN
GLN	GLN	HIS	ARG
PHE	GLY	GLY	ARG
CYS	ASN	ASN	ARG
GLN	LEU	SER	ILE
VAL	MET	VAL	GLY
VAL	GLU	GLU	ALA
MET	PRO	GLY	GLU
ALA	VAL	LYS	LYS
ASP	TYR	GLU	ASP
HIS	ALA	VAL	LYS
ASP	GLN	GLU	SER
THR	GLU	CYS	ILE
ASP	LYS	ASP	HIS
LEU	LEU	GLY	LEU
GLU	PRO	SER	PHE
ASP	ASP	VAL	GLN
ILE	THR	VAL	GLU
LEU	THR	ASP	LEU
LYS	THR	MET	ASN
LYS	GLU	GLN	PHE
THR	GLY	LYS	THR
SER	ILE	TYL	ILE
GLU	PRO	LYS	PHE
ALA	SER	ASP	TYR
VAL	PRO	HIS	TYR
GLY	SER	PHE	GLY
ASN	THR	GLN	ASN
LYS	ASN	THR	VAL
ARG	VAL	ALA	ASN
THR	PRO	LYS	GLN
LYS	LYS	CYS	ASP
LYS	LEU	PRO	GLN
GLY	ALA	TYR	PHE
SER	ASP	LEU	THR

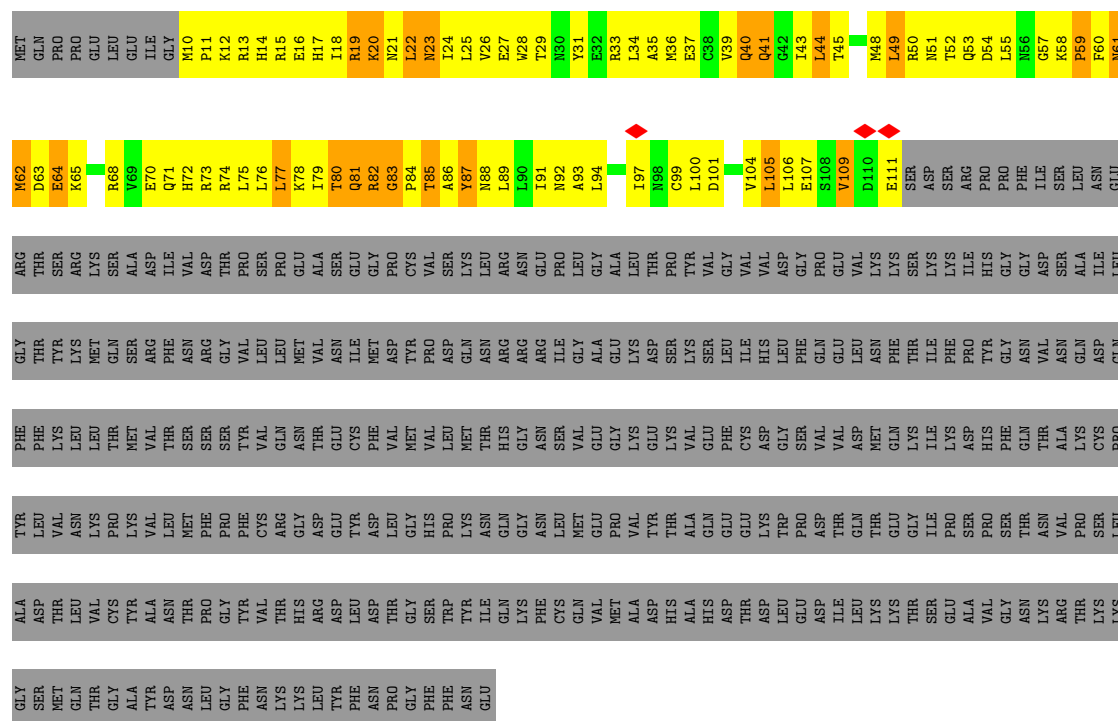
- Molecule 2: Caspase Nc

[illegible]

- Molecule 2: Caspase Nc

[illegible]

- Molecule 2: Caspase Nc



4 Experimental information

Property	Value	Source
EM reconstruction method	SINGLE PARTICLE	Depositor
Imposed symmetry	POINT, D8	Depositor
Number of particles used	11359	Depositor
Resolution determination method	FSC 0.143 CUT-OFF	Depositor
CTF correction method	Each particle	Depositor
Microscope	FEI POLARA 300	Depositor
Voltage (kV)	300	Depositor
Electron dose ($e^-/\text{\AA}^2$)	28	Depositor
Minimum defocus (nm)	1400	Depositor
Maximum defocus (nm)	6400	Depositor
Magnification	104748	Depositor
Image detector	FEI FALCON II (4k x 4k)	Depositor
Maximum map value	0.384	Depositor
Minimum map value	-0.193	Depositor
Average map value	0.000	Depositor
Map value standard deviation	0.022	Depositor
Recommended contour level	0.0642	Depositor
Map size ($\text{\AA}$)	428.80002, 428.80002, 428.80002	wwPDB
Map dimensions	320, 320, 320	wwPDB
Map angles ($^\circ$)	90.0, 90.0, 90.0	wwPDB
Pixel spacing ($\text{\AA}$)	1.34, 1.34, 1.34	Depositor

5 Model quality ⓘ

5.1 Standard geometry ⓘ

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

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	A	0.92	12/4562 (0.3%)	1.50	113/6167 (1.8%)
1	C	0.92	12/4562 (0.3%)	1.50	111/6167 (1.8%)
1	E	0.92	12/4562 (0.3%)	1.50	113/6167 (1.8%)
1	G	0.92	12/4562 (0.3%)	1.50	111/6167 (1.8%)
1	I	0.92	12/4562 (0.3%)	1.50	113/6167 (1.8%)
1	K	0.92	12/4562 (0.3%)	1.50	111/6167 (1.8%)
1	M	0.92	12/4562 (0.3%)	1.50	113/6167 (1.8%)
1	O	0.92	12/4562 (0.3%)	1.50	111/6167 (1.8%)
1	Q	0.92	12/4562 (0.3%)	1.50	113/6167 (1.8%)
1	S	0.92	12/4562 (0.3%)	1.50	111/6167 (1.8%)
1	U	0.92	12/4562 (0.3%)	1.50	113/6167 (1.8%)
1	W	0.92	12/4562 (0.3%)	1.50	111/6167 (1.8%)
1	Y	0.92	12/4562 (0.3%)	1.50	113/6167 (1.8%)
1	a	0.92	12/4562 (0.3%)	1.50	111/6167 (1.8%)
1	c	0.92	12/4562 (0.3%)	1.50	113/6167 (1.8%)
1	e	0.92	12/4562 (0.3%)	1.50	111/6167 (1.8%)
2	B	0.65	1/850 (0.1%)	1.08	5/1146 (0.4%)
2	D	0.65	1/850 (0.1%)	1.08	5/1146 (0.4%)
2	F	0.65	1/850 (0.1%)	1.08	5/1146 (0.4%)
2	H	0.65	1/850 (0.1%)	1.08	5/1146 (0.4%)
2	J	0.65	1/850 (0.1%)	1.08	5/1146 (0.4%)
2	L	0.65	1/850 (0.1%)	1.08	5/1146 (0.4%)
2	N	0.65	1/850 (0.1%)	1.08	5/1146 (0.4%)
2	P	0.65	1/850 (0.1%)	1.08	5/1146 (0.4%)
2	R	0.65	1/850 (0.1%)	1.08	5/1146 (0.4%)
2	T	0.65	1/850 (0.1%)	1.08	5/1146 (0.4%)
2	V	0.65	1/850 (0.1%)	1.08	5/1146 (0.4%)
2	X	0.65	1/850 (0.1%)	1.08	5/1146 (0.4%)
2	Z	0.65	1/850 (0.1%)	1.08	5/1146 (0.4%)
2	b	0.65	1/850 (0.1%)	1.08	5/1146 (0.4%)
2	d	0.65	1/850 (0.1%)	1.08	5/1146 (0.4%)
2	f	0.65	1/850 (0.1%)	1.08	5/1146 (0.4%)

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	# Z >5	RMSZ	# Z >5
All	All	0.88	208/86592 (0.2%)	1.44	1872/117008 (1.6%)

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	A	0	7
1	C	0	7
1	E	0	7
1	G	0	7
1	I	0	7
1	K	0	7
1	M	0	7
1	O	0	7
1	Q	0	7
1	S	0	7
1	U	0	7
1	W	0	7
1	Y	0	7
1	a	0	7
1	c	0	7
1	e	0	7
All	All	0	112

All (208) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	A	449	ILE	CA-CB	8.66	1.59	1.54
1	E	449	ILE	CA-CB	8.66	1.59	1.54
1	I	449	ILE	CA-CB	8.66	1.59	1.54
1	M	449	ILE	CA-CB	8.66	1.59	1.54
1	Q	449	ILE	CA-CB	8.66	1.59	1.54
1	U	449	ILE	CA-CB	8.66	1.59	1.54
1	Y	449	ILE	CA-CB	8.66	1.59	1.54
1	c	449	ILE	CA-CB	8.66	1.59	1.54
1	C	449	ILE	CA-CB	8.63	1.59	1.54
1	G	449	ILE	CA-CB	8.63	1.59	1.54
1	K	449	ILE	CA-CB	8.63	1.59	1.54
1	O	449	ILE	CA-CB	8.63	1.59	1.54
1	S	449	ILE	CA-CB	8.63	1.59	1.54

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	W	449	ILE	CA-CB	8.63	1.59	1.54
1	a	449	ILE	CA-CB	8.63	1.59	1.54
1	e	449	ILE	CA-CB	8.63	1.59	1.54
1	A	557	LYS	N-CA	8.21	1.56	1.46
1	E	557	LYS	N-CA	8.21	1.56	1.46
1	I	557	LYS	N-CA	8.21	1.56	1.46
1	M	557	LYS	N-CA	8.21	1.56	1.46
1	Q	557	LYS	N-CA	8.21	1.56	1.46
1	U	557	LYS	N-CA	8.21	1.56	1.46
1	Y	557	LYS	N-CA	8.21	1.56	1.46
1	c	557	LYS	N-CA	8.21	1.56	1.46
1	C	557	LYS	N-CA	8.19	1.56	1.46
1	G	557	LYS	N-CA	8.19	1.56	1.46
1	K	557	LYS	N-CA	8.19	1.56	1.46
1	O	557	LYS	N-CA	8.19	1.56	1.46
1	S	557	LYS	N-CA	8.19	1.56	1.46
1	W	557	LYS	N-CA	8.19	1.56	1.46
1	a	557	LYS	N-CA	8.19	1.56	1.46
1	e	557	LYS	N-CA	8.19	1.56	1.46
1	C	412	GLU	CA-CB	-7.28	1.43	1.52
1	G	412	GLU	CA-CB	-7.28	1.43	1.52
1	K	412	GLU	CA-CB	-7.28	1.43	1.52
1	O	412	GLU	CA-CB	-7.28	1.43	1.52
1	S	412	GLU	CA-CB	-7.28	1.43	1.52
1	W	412	GLU	CA-CB	-7.28	1.43	1.52
1	a	412	GLU	CA-CB	-7.28	1.43	1.52
1	e	412	GLU	CA-CB	-7.28	1.43	1.52
1	A	412	GLU	CA-CB	-7.26	1.43	1.52
1	E	412	GLU	CA-CB	-7.26	1.43	1.52
1	I	412	GLU	CA-CB	-7.26	1.43	1.52
1	M	412	GLU	CA-CB	-7.26	1.43	1.52
1	Q	412	GLU	CA-CB	-7.26	1.43	1.52
1	U	412	GLU	CA-CB	-7.26	1.43	1.52
1	Y	412	GLU	CA-CB	-7.26	1.43	1.52
1	c	412	GLU	CA-CB	-7.26	1.43	1.52
1	A	558	TYR	C-O	7.14	1.32	1.24
1	C	558	TYR	C-O	7.14	1.32	1.24
1	E	558	TYR	C-O	7.14	1.32	1.24
1	G	558	TYR	C-O	7.14	1.32	1.24
1	I	558	TYR	C-O	7.14	1.32	1.24
1	K	558	TYR	C-O	7.14	1.32	1.24
1	M	558	TYR	C-O	7.14	1.32	1.24

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	O	558	TYR	C-O	7.14	1.32	1.24
1	Q	558	TYR	C-O	7.14	1.32	1.24
1	S	558	TYR	C-O	7.14	1.32	1.24
1	U	558	TYR	C-O	7.14	1.32	1.24
1	W	558	TYR	C-O	7.14	1.32	1.24
1	Y	558	TYR	C-O	7.14	1.32	1.24
1	a	558	TYR	C-O	7.14	1.32	1.24
1	c	558	TYR	C-O	7.14	1.32	1.24
1	e	558	TYR	C-O	7.14	1.32	1.24
1	A	558	TYR	CA-C	6.96	1.62	1.52
1	E	558	TYR	CA-C	6.96	1.62	1.52
1	I	558	TYR	CA-C	6.96	1.62	1.52
1	M	558	TYR	CA-C	6.96	1.62	1.52
1	Q	558	TYR	CA-C	6.96	1.62	1.52
1	U	558	TYR	CA-C	6.96	1.62	1.52
1	Y	558	TYR	CA-C	6.96	1.62	1.52
1	c	558	TYR	CA-C	6.96	1.62	1.52
1	C	558	TYR	CA-C	6.93	1.62	1.52
1	G	558	TYR	CA-C	6.93	1.62	1.52
1	K	558	TYR	CA-C	6.93	1.62	1.52
1	O	558	TYR	CA-C	6.93	1.62	1.52
1	S	558	TYR	CA-C	6.93	1.62	1.52
1	W	558	TYR	CA-C	6.93	1.62	1.52
1	a	558	TYR	CA-C	6.93	1.62	1.52
1	e	558	TYR	CA-C	6.93	1.62	1.52
1	C	459	ILE	C-N	6.38	1.40	1.33
1	G	459	ILE	C-N	6.38	1.40	1.33
1	K	459	ILE	C-N	6.38	1.40	1.33
1	O	459	ILE	C-N	6.38	1.40	1.33
1	S	459	ILE	C-N	6.38	1.40	1.33
1	W	459	ILE	C-N	6.38	1.40	1.33
1	a	459	ILE	C-N	6.38	1.40	1.33
1	e	459	ILE	C-N	6.38	1.40	1.33
1	A	459	ILE	C-N	6.35	1.40	1.33
1	E	459	ILE	C-N	6.35	1.40	1.33
1	I	459	ILE	C-N	6.35	1.40	1.33
1	M	459	ILE	C-N	6.35	1.40	1.33
1	Q	459	ILE	C-N	6.35	1.40	1.33
1	U	459	ILE	C-N	6.35	1.40	1.33
1	Y	459	ILE	C-N	6.35	1.40	1.33
1	c	459	ILE	C-N	6.35	1.40	1.33
2	B	83	GLY	C-N	5.47	1.40	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	F	83	GLY	C-N	5.47	1.40	1.33
2	J	83	GLY	C-N	5.47	1.40	1.33
2	N	83	GLY	C-N	5.47	1.40	1.33
2	R	83	GLY	C-N	5.47	1.40	1.33
2	V	83	GLY	C-N	5.47	1.40	1.33
2	Z	83	GLY	C-N	5.47	1.40	1.33
2	d	83	GLY	C-N	5.47	1.40	1.33
2	D	83	GLY	C-N	5.43	1.40	1.33
2	H	83	GLY	C-N	5.43	1.40	1.33
2	L	83	GLY	C-N	5.43	1.40	1.33
2	P	83	GLY	C-N	5.43	1.40	1.33
2	T	83	GLY	C-N	5.43	1.40	1.33
2	X	83	GLY	C-N	5.43	1.40	1.33
2	b	83	GLY	C-N	5.43	1.40	1.33
2	f	83	GLY	C-N	5.43	1.40	1.33
1	A	189	PRO	N-CD	5.39	1.55	1.47
1	E	189	PRO	N-CD	5.39	1.55	1.47
1	I	189	PRO	N-CD	5.39	1.55	1.47
1	M	189	PRO	N-CD	5.39	1.55	1.47
1	Q	189	PRO	N-CD	5.39	1.55	1.47
1	U	189	PRO	N-CD	5.39	1.55	1.47
1	Y	189	PRO	N-CD	5.39	1.55	1.47
1	c	189	PRO	N-CD	5.39	1.55	1.47
1	C	189	PRO	N-CD	5.36	1.55	1.47
1	G	189	PRO	N-CD	5.36	1.55	1.47
1	K	189	PRO	N-CD	5.36	1.55	1.47
1	O	189	PRO	N-CD	5.36	1.55	1.47
1	S	189	PRO	N-CD	5.36	1.55	1.47
1	W	189	PRO	N-CD	5.36	1.55	1.47
1	a	189	PRO	N-CD	5.36	1.55	1.47
1	e	189	PRO	N-CD	5.36	1.55	1.47
1	A	377	PRO	N-CD	5.32	1.55	1.47
1	E	377	PRO	N-CD	5.32	1.55	1.47
1	I	377	PRO	N-CD	5.32	1.55	1.47
1	M	377	PRO	N-CD	5.32	1.55	1.47
1	Q	377	PRO	N-CD	5.32	1.55	1.47
1	U	377	PRO	N-CD	5.32	1.55	1.47
1	Y	377	PRO	N-CD	5.32	1.55	1.47
1	c	377	PRO	N-CD	5.32	1.55	1.47
1	C	235	LYS	C-N	5.32	1.41	1.34
1	G	235	LYS	C-N	5.32	1.41	1.34
1	K	235	LYS	C-N	5.32	1.41	1.34

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	O	235	LYS	C-N	5.32	1.41	1.34
1	S	235	LYS	C-N	5.32	1.41	1.34
1	W	235	LYS	C-N	5.32	1.41	1.34
1	a	235	LYS	C-N	5.32	1.41	1.34
1	e	235	LYS	C-N	5.32	1.41	1.34
1	C	377	PRO	N-CD	5.32	1.55	1.47
1	G	377	PRO	N-CD	5.32	1.55	1.47
1	K	377	PRO	N-CD	5.32	1.55	1.47
1	O	377	PRO	N-CD	5.32	1.55	1.47
1	S	377	PRO	N-CD	5.32	1.55	1.47
1	W	377	PRO	N-CD	5.32	1.55	1.47
1	a	377	PRO	N-CD	5.32	1.55	1.47
1	e	377	PRO	N-CD	5.32	1.55	1.47
1	A	235	LYS	C-N	5.30	1.41	1.34
1	E	235	LYS	C-N	5.30	1.41	1.34
1	I	235	LYS	C-N	5.30	1.41	1.34
1	M	235	LYS	C-N	5.30	1.41	1.34
1	Q	235	LYS	C-N	5.30	1.41	1.34
1	U	235	LYS	C-N	5.30	1.41	1.34
1	Y	235	LYS	C-N	5.30	1.41	1.34
1	c	235	LYS	C-N	5.30	1.41	1.34
1	A	90	SER	C-N	5.18	1.41	1.34
1	E	90	SER	C-N	5.18	1.41	1.34
1	I	90	SER	C-N	5.18	1.41	1.34
1	M	90	SER	C-N	5.18	1.41	1.34
1	Q	90	SER	C-N	5.18	1.41	1.34
1	U	90	SER	C-N	5.18	1.41	1.34
1	Y	90	SER	C-N	5.18	1.41	1.34
1	c	90	SER	C-N	5.18	1.41	1.34
1	C	90	SER	C-N	5.16	1.41	1.34
1	G	90	SER	C-N	5.16	1.41	1.34
1	K	90	SER	C-N	5.16	1.41	1.34
1	O	90	SER	C-N	5.16	1.41	1.34
1	S	90	SER	C-N	5.16	1.41	1.34
1	W	90	SER	C-N	5.16	1.41	1.34
1	a	90	SER	C-N	5.16	1.41	1.34
1	e	90	SER	C-N	5.16	1.41	1.34
1	C	460	PRO	N-CD	5.10	1.54	1.47
1	G	460	PRO	N-CD	5.10	1.54	1.47
1	K	460	PRO	N-CD	5.10	1.54	1.47
1	O	460	PRO	N-CD	5.10	1.54	1.47
1	S	460	PRO	N-CD	5.10	1.54	1.47

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	W	460	PRO	N-CD	5.10	1.54	1.47
1	a	460	PRO	N-CD	5.10	1.54	1.47
1	e	460	PRO	N-CD	5.10	1.54	1.47
1	A	460	PRO	N-CD	5.08	1.54	1.47
1	E	460	PRO	N-CD	5.08	1.54	1.47
1	I	460	PRO	N-CD	5.08	1.54	1.47
1	M	460	PRO	N-CD	5.08	1.54	1.47
1	Q	460	PRO	N-CD	5.08	1.54	1.47
1	U	460	PRO	N-CD	5.08	1.54	1.47
1	Y	460	PRO	N-CD	5.08	1.54	1.47
1	c	460	PRO	N-CD	5.08	1.54	1.47
1	C	202	GLN	CA-C	-5.02	1.46	1.52
1	G	202	GLN	CA-C	-5.02	1.46	1.52
1	K	202	GLN	CA-C	-5.02	1.46	1.52
1	O	202	GLN	CA-C	-5.02	1.46	1.52
1	S	202	GLN	CA-C	-5.02	1.46	1.52
1	W	202	GLN	CA-C	-5.02	1.46	1.52
1	a	202	GLN	CA-C	-5.02	1.46	1.52
1	e	202	GLN	CA-C	-5.02	1.46	1.52
1	A	202	GLN	CA-C	-5.01	1.46	1.52
1	E	202	GLN	CA-C	-5.01	1.46	1.52
1	I	202	GLN	CA-C	-5.01	1.46	1.52
1	M	202	GLN	CA-C	-5.01	1.46	1.52
1	Q	202	GLN	CA-C	-5.01	1.46	1.52
1	U	202	GLN	CA-C	-5.01	1.46	1.52
1	Y	202	GLN	CA-C	-5.01	1.46	1.52
1	c	202	GLN	CA-C	-5.01	1.46	1.52

All (1872) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	C	244	LEU	N-CA-C	-11.36	95.53	110.53
1	G	244	LEU	N-CA-C	-11.36	95.53	110.53
1	K	244	LEU	N-CA-C	-11.36	95.53	110.53
1	O	244	LEU	N-CA-C	-11.36	95.53	110.53
1	S	244	LEU	N-CA-C	-11.36	95.53	110.53
1	W	244	LEU	N-CA-C	-11.36	95.53	110.53
1	a	244	LEU	N-CA-C	-11.36	95.53	110.53
1	e	244	LEU	N-CA-C	-11.36	95.53	110.53
1	A	244	LEU	N-CA-C	-11.35	95.55	110.53
1	E	244	LEU	N-CA-C	-11.35	95.55	110.53
1	I	244	LEU	N-CA-C	-11.35	95.55	110.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	M	244	LEU	N-CA-C	-11.35	95.55	110.53
1	Q	244	LEU	N-CA-C	-11.35	95.55	110.53
1	U	244	LEU	N-CA-C	-11.35	95.55	110.53
1	Y	244	LEU	N-CA-C	-11.35	95.55	110.53
1	c	244	LEU	N-CA-C	-11.35	95.55	110.53
1	A	248	GLN	N-CA-C	11.34	123.39	111.14
1	E	248	GLN	N-CA-C	11.34	123.39	111.14
1	I	248	GLN	N-CA-C	11.34	123.39	111.14
1	M	248	GLN	N-CA-C	11.34	123.39	111.14
1	Q	248	GLN	N-CA-C	11.34	123.39	111.14
1	U	248	GLN	N-CA-C	11.34	123.39	111.14
1	Y	248	GLN	N-CA-C	11.34	123.39	111.14
1	c	248	GLN	N-CA-C	11.34	123.39	111.14
1	C	248	GLN	N-CA-C	11.33	123.38	111.14
1	G	248	GLN	N-CA-C	11.33	123.38	111.14
1	K	248	GLN	N-CA-C	11.33	123.38	111.14
1	O	248	GLN	N-CA-C	11.33	123.38	111.14
1	S	248	GLN	N-CA-C	11.33	123.38	111.14
1	W	248	GLN	N-CA-C	11.33	123.38	111.14
1	a	248	GLN	N-CA-C	11.33	123.38	111.14
1	e	248	GLN	N-CA-C	11.33	123.38	111.14
1	A	167	SER	CB-CA-C	-9.71	97.86	109.80
1	E	167	SER	CB-CA-C	-9.71	97.86	109.80
1	I	167	SER	CB-CA-C	-9.71	97.86	109.80
1	M	167	SER	CB-CA-C	-9.71	97.86	109.80
1	Q	167	SER	CB-CA-C	-9.71	97.86	109.80
1	U	167	SER	CB-CA-C	-9.71	97.86	109.80
1	Y	167	SER	CB-CA-C	-9.71	97.86	109.80
1	c	167	SER	CB-CA-C	-9.71	97.86	109.80
1	C	167	SER	CB-CA-C	-9.70	97.87	109.80
1	G	167	SER	CB-CA-C	-9.70	97.87	109.80
1	K	167	SER	CB-CA-C	-9.70	97.87	109.80
1	O	167	SER	CB-CA-C	-9.70	97.87	109.80
1	S	167	SER	CB-CA-C	-9.70	97.87	109.80
1	W	167	SER	CB-CA-C	-9.70	97.87	109.80
1	a	167	SER	CB-CA-C	-9.70	97.87	109.80
1	e	167	SER	CB-CA-C	-9.70	97.87	109.80
1	C	489	MET	N-CA-C	-9.60	99.88	111.69
1	G	489	MET	N-CA-C	-9.60	99.88	111.69
1	K	489	MET	N-CA-C	-9.60	99.88	111.69
1	O	489	MET	N-CA-C	-9.60	99.88	111.69
1	S	489	MET	N-CA-C	-9.60	99.88	111.69

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	W	489	MET	N-CA-C	-9.60	99.88	111.69
1	a	489	MET	N-CA-C	-9.60	99.88	111.69
1	e	489	MET	N-CA-C	-9.60	99.88	111.69
1	A	489	MET	N-CA-C	-9.57	99.92	111.69
1	E	489	MET	N-CA-C	-9.57	99.92	111.69
1	I	489	MET	N-CA-C	-9.57	99.92	111.69
1	M	489	MET	N-CA-C	-9.57	99.92	111.69
1	Q	489	MET	N-CA-C	-9.57	99.92	111.69
1	U	489	MET	N-CA-C	-9.57	99.92	111.69
1	Y	489	MET	N-CA-C	-9.57	99.92	111.69
1	c	489	MET	N-CA-C	-9.57	99.92	111.69
1	A	415	PRO	CB-CA-C	8.76	126.75	110.10
1	E	415	PRO	CB-CA-C	8.76	126.75	110.10
1	I	415	PRO	CB-CA-C	8.76	126.75	110.10
1	M	415	PRO	CB-CA-C	8.76	126.75	110.10
1	Q	415	PRO	CB-CA-C	8.76	126.75	110.10
1	U	415	PRO	CB-CA-C	8.76	126.75	110.10
1	Y	415	PRO	CB-CA-C	8.76	126.75	110.10
1	c	415	PRO	CB-CA-C	8.76	126.75	110.10
1	C	415	PRO	CB-CA-C	8.76	126.74	110.10
1	G	415	PRO	CB-CA-C	8.76	126.74	110.10
1	K	415	PRO	CB-CA-C	8.76	126.74	110.10
1	O	415	PRO	CB-CA-C	8.76	126.74	110.10
1	S	415	PRO	CB-CA-C	8.76	126.74	110.10
1	W	415	PRO	CB-CA-C	8.76	126.74	110.10
1	a	415	PRO	CB-CA-C	8.76	126.74	110.10
1	e	415	PRO	CB-CA-C	8.76	126.74	110.10
1	A	559	THR	N-CA-C	8.68	125.69	111.37
1	E	559	THR	N-CA-C	8.68	125.69	111.37
1	I	559	THR	N-CA-C	8.68	125.69	111.37
1	M	559	THR	N-CA-C	8.68	125.69	111.37
1	Q	559	THR	N-CA-C	8.68	125.69	111.37
1	U	559	THR	N-CA-C	8.68	125.69	111.37
1	Y	559	THR	N-CA-C	8.68	125.69	111.37
1	c	559	THR	N-CA-C	8.68	125.69	111.37
1	C	559	THR	N-CA-C	8.67	125.67	111.37
1	G	559	THR	N-CA-C	8.67	125.67	111.37
1	K	559	THR	N-CA-C	8.67	125.67	111.37
1	O	559	THR	N-CA-C	8.67	125.67	111.37
1	S	559	THR	N-CA-C	8.67	125.67	111.37
1	W	559	THR	N-CA-C	8.67	125.67	111.37
1	a	559	THR	N-CA-C	8.67	125.67	111.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	e	559	THR	N-CA-C	8.67	125.67	111.37
1	A	343	HIS	N-CA-C	-8.45	102.42	112.89
1	C	343	HIS	N-CA-C	-8.45	102.42	112.89
1	E	343	HIS	N-CA-C	-8.45	102.42	112.89
1	G	343	HIS	N-CA-C	-8.45	102.42	112.89
1	I	343	HIS	N-CA-C	-8.45	102.42	112.89
1	K	343	HIS	N-CA-C	-8.45	102.42	112.89
1	M	343	HIS	N-CA-C	-8.45	102.42	112.89
1	O	343	HIS	N-CA-C	-8.45	102.42	112.89
1	Q	343	HIS	N-CA-C	-8.45	102.42	112.89
1	S	343	HIS	N-CA-C	-8.45	102.42	112.89
1	U	343	HIS	N-CA-C	-8.45	102.42	112.89
1	W	343	HIS	N-CA-C	-8.45	102.42	112.89
1	Y	343	HIS	N-CA-C	-8.45	102.42	112.89
1	a	343	HIS	N-CA-C	-8.45	102.42	112.89
1	c	343	HIS	N-CA-C	-8.45	102.42	112.89
1	e	343	HIS	N-CA-C	-8.45	102.42	112.89
1	A	557	LYS	N-CA-CB	-8.43	95.65	109.56
1	C	557	LYS	N-CA-CB	-8.43	95.65	109.56
1	E	557	LYS	N-CA-CB	-8.43	95.65	109.56
1	G	557	LYS	N-CA-CB	-8.43	95.65	109.56
1	I	557	LYS	N-CA-CB	-8.43	95.65	109.56
1	K	557	LYS	N-CA-CB	-8.43	95.65	109.56
1	M	557	LYS	N-CA-CB	-8.43	95.65	109.56
1	O	557	LYS	N-CA-CB	-8.43	95.65	109.56
1	Q	557	LYS	N-CA-CB	-8.43	95.65	109.56
1	S	557	LYS	N-CA-CB	-8.43	95.65	109.56
1	U	557	LYS	N-CA-CB	-8.43	95.65	109.56
1	W	557	LYS	N-CA-CB	-8.43	95.65	109.56
1	Y	557	LYS	N-CA-CB	-8.43	95.65	109.56
1	a	557	LYS	N-CA-CB	-8.43	95.65	109.56
1	c	557	LYS	N-CA-CB	-8.43	95.65	109.56
1	e	557	LYS	N-CA-CB	-8.43	95.65	109.56
1	A	449	ILE	CA-C-N	-8.28	111.19	119.56
1	A	449	ILE	C-N-CA	-8.28	111.19	119.56
1	E	449	ILE	CA-C-N	-8.28	111.19	119.56
1	E	449	ILE	C-N-CA	-8.28	111.19	119.56
1	I	449	ILE	CA-C-N	-8.28	111.19	119.56
1	I	449	ILE	C-N-CA	-8.28	111.19	119.56
1	M	449	ILE	CA-C-N	-8.28	111.19	119.56
1	M	449	ILE	C-N-CA	-8.28	111.19	119.56
1	Q	449	ILE	CA-C-N	-8.28	111.19	119.56

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	Q	449	ILE	C-N-CA	-8.28	111.19	119.56
1	U	449	ILE	CA-C-N	-8.28	111.19	119.56
1	U	449	ILE	C-N-CA	-8.28	111.19	119.56
1	Y	449	ILE	CA-C-N	-8.28	111.19	119.56
1	Y	449	ILE	C-N-CA	-8.28	111.19	119.56
1	c	449	ILE	CA-C-N	-8.28	111.19	119.56
1	c	449	ILE	C-N-CA	-8.28	111.19	119.56
1	C	449	ILE	CA-C-N	-8.26	111.22	119.56
1	C	449	ILE	C-N-CA	-8.26	111.22	119.56
1	G	449	ILE	CA-C-N	-8.26	111.22	119.56
1	G	449	ILE	C-N-CA	-8.26	111.22	119.56
1	K	449	ILE	CA-C-N	-8.26	111.22	119.56
1	K	449	ILE	C-N-CA	-8.26	111.22	119.56
1	O	449	ILE	CA-C-N	-8.26	111.22	119.56
1	O	449	ILE	C-N-CA	-8.26	111.22	119.56
1	S	449	ILE	CA-C-N	-8.26	111.22	119.56
1	S	449	ILE	C-N-CA	-8.26	111.22	119.56
1	W	449	ILE	CA-C-N	-8.26	111.22	119.56
1	W	449	ILE	C-N-CA	-8.26	111.22	119.56
1	a	449	ILE	CA-C-N	-8.26	111.22	119.56
1	a	449	ILE	C-N-CA	-8.26	111.22	119.56
1	e	449	ILE	CA-C-N	-8.26	111.22	119.56
1	e	449	ILE	C-N-CA	-8.26	111.22	119.56
1	G	301	LEU	N-CA-C	-8.12	102.38	111.71
1	K	301	LEU	N-CA-C	-8.12	102.38	111.71
1	O	301	LEU	N-CA-C	-8.12	102.38	111.71
1	S	301	LEU	N-CA-C	-8.12	102.38	111.71
1	W	301	LEU	N-CA-C	-8.12	102.38	111.71
1	a	301	LEU	N-CA-C	-8.12	102.38	111.71
1	e	301	LEU	N-CA-C	-8.12	102.38	111.71
1	A	272	THR	N-CA-C	-8.11	102.83	112.89
1	C	301	LEU	N-CA-C	-8.11	102.38	111.71
1	E	272	THR	N-CA-C	-8.11	102.83	112.89
1	I	272	THR	N-CA-C	-8.11	102.83	112.89
1	M	272	THR	N-CA-C	-8.11	102.83	112.89
1	Q	272	THR	N-CA-C	-8.11	102.83	112.89
1	U	272	THR	N-CA-C	-8.11	102.83	112.89
1	Y	272	THR	N-CA-C	-8.11	102.83	112.89
1	c	272	THR	N-CA-C	-8.11	102.83	112.89
1	C	272	THR	N-CA-C	-8.11	102.84	112.89
1	G	272	THR	N-CA-C	-8.11	102.84	112.89
1	K	272	THR	N-CA-C	-8.11	102.84	112.89

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	O	272	THR	N-CA-C	-8.11	102.84	112.89
1	S	272	THR	N-CA-C	-8.11	102.84	112.89
1	W	272	THR	N-CA-C	-8.11	102.84	112.89
1	a	272	THR	N-CA-C	-8.11	102.84	112.89
1	e	272	THR	N-CA-C	-8.11	102.84	112.89
1	A	301	LEU	N-CA-C	-8.10	102.39	111.71
1	E	301	LEU	N-CA-C	-8.10	102.39	111.71
1	I	301	LEU	N-CA-C	-8.10	102.39	111.71
1	M	301	LEU	N-CA-C	-8.10	102.39	111.71
1	Q	301	LEU	N-CA-C	-8.10	102.39	111.71
1	U	301	LEU	N-CA-C	-8.10	102.39	111.71
1	Y	301	LEU	N-CA-C	-8.10	102.39	111.71
1	c	301	LEU	N-CA-C	-8.10	102.39	111.71
1	C	283	ILE	N-CA-C	-8.08	99.20	109.30
1	G	283	ILE	N-CA-C	-8.08	99.20	109.30
1	K	283	ILE	N-CA-C	-8.08	99.20	109.30
1	O	283	ILE	N-CA-C	-8.08	99.20	109.30
1	S	283	ILE	N-CA-C	-8.08	99.20	109.30
1	W	283	ILE	N-CA-C	-8.08	99.20	109.30
1	a	283	ILE	N-CA-C	-8.08	99.20	109.30
1	e	283	ILE	N-CA-C	-8.08	99.20	109.30
1	A	283	ILE	N-CA-C	-8.07	99.21	109.30
1	E	283	ILE	N-CA-C	-8.07	99.21	109.30
1	I	283	ILE	N-CA-C	-8.07	99.21	109.30
1	M	283	ILE	N-CA-C	-8.07	99.21	109.30
1	Q	283	ILE	N-CA-C	-8.07	99.21	109.30
1	U	283	ILE	N-CA-C	-8.07	99.21	109.30
1	Y	283	ILE	N-CA-C	-8.07	99.21	109.30
1	c	283	ILE	N-CA-C	-8.07	99.21	109.30
1	A	537	ARG	N-CA-C	-7.86	102.72	111.28
1	E	537	ARG	N-CA-C	-7.86	102.72	111.28
1	I	537	ARG	N-CA-C	-7.86	102.72	111.28
1	M	537	ARG	N-CA-C	-7.86	102.72	111.28
1	Q	537	ARG	N-CA-C	-7.86	102.72	111.28
1	U	537	ARG	N-CA-C	-7.86	102.72	111.28
1	Y	537	ARG	N-CA-C	-7.86	102.72	111.28
1	c	537	ARG	N-CA-C	-7.86	102.72	111.28
1	C	274	PHE	N-CA-C	7.84	120.97	111.40
1	C	537	ARG	N-CA-C	-7.84	102.73	111.28
1	G	274	PHE	N-CA-C	7.84	120.97	111.40
1	G	537	ARG	N-CA-C	-7.84	102.73	111.28
1	K	274	PHE	N-CA-C	7.84	120.97	111.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	K	537	ARG	N-CA-C	-7.84	102.73	111.28
1	O	274	PHE	N-CA-C	7.84	120.97	111.40
1	O	537	ARG	N-CA-C	-7.84	102.73	111.28
1	S	274	PHE	N-CA-C	7.84	120.97	111.40
1	S	537	ARG	N-CA-C	-7.84	102.73	111.28
1	W	274	PHE	N-CA-C	7.84	120.97	111.40
1	W	537	ARG	N-CA-C	-7.84	102.73	111.28
1	a	274	PHE	N-CA-C	7.84	120.97	111.40
1	a	537	ARG	N-CA-C	-7.84	102.73	111.28
1	e	274	PHE	N-CA-C	7.84	120.97	111.40
1	e	537	ARG	N-CA-C	-7.84	102.73	111.28
1	A	287	HIS	CA-C-N	7.83	130.77	120.28
1	A	287	HIS	C-N-CA	7.83	130.77	120.28
1	E	287	HIS	CA-C-N	7.83	130.77	120.28
1	E	287	HIS	C-N-CA	7.83	130.77	120.28
1	I	287	HIS	CA-C-N	7.83	130.77	120.28
1	I	287	HIS	C-N-CA	7.83	130.77	120.28
1	M	287	HIS	CA-C-N	7.83	130.77	120.28
1	M	287	HIS	C-N-CA	7.83	130.77	120.28
1	Q	287	HIS	CA-C-N	7.83	130.77	120.28
1	Q	287	HIS	C-N-CA	7.83	130.77	120.28
1	U	287	HIS	CA-C-N	7.83	130.77	120.28
1	U	287	HIS	C-N-CA	7.83	130.77	120.28
1	Y	287	HIS	CA-C-N	7.83	130.77	120.28
1	Y	287	HIS	C-N-CA	7.83	130.77	120.28
1	c	287	HIS	CA-C-N	7.83	130.77	120.28
1	c	287	HIS	C-N-CA	7.83	130.77	120.28
1	C	287	HIS	CA-C-N	7.83	130.77	120.28
1	C	287	HIS	C-N-CA	7.83	130.77	120.28
1	G	287	HIS	CA-C-N	7.83	130.77	120.28
1	G	287	HIS	C-N-CA	7.83	130.77	120.28
1	K	287	HIS	CA-C-N	7.83	130.77	120.28
1	K	287	HIS	C-N-CA	7.83	130.77	120.28
1	O	287	HIS	CA-C-N	7.83	130.77	120.28
1	O	287	HIS	C-N-CA	7.83	130.77	120.28
1	S	287	HIS	CA-C-N	7.83	130.77	120.28
1	S	287	HIS	C-N-CA	7.83	130.77	120.28
1	W	287	HIS	CA-C-N	7.83	130.77	120.28
1	W	287	HIS	C-N-CA	7.83	130.77	120.28
1	a	287	HIS	CA-C-N	7.83	130.77	120.28
1	a	287	HIS	C-N-CA	7.83	130.77	120.28
1	e	287	HIS	CA-C-N	7.83	130.77	120.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	e	287	HIS	C-N-CA	7.83	130.77	120.28
1	A	274	PHE	N-CA-C	7.83	120.95	111.40
1	E	274	PHE	N-CA-C	7.83	120.95	111.40
1	I	274	PHE	N-CA-C	7.83	120.95	111.40
1	M	274	PHE	N-CA-C	7.83	120.95	111.40
1	Q	274	PHE	N-CA-C	7.83	120.95	111.40
1	U	274	PHE	N-CA-C	7.83	120.95	111.40
1	Y	274	PHE	N-CA-C	7.83	120.95	111.40
1	c	274	PHE	N-CA-C	7.83	120.95	111.40
1	C	267	ARG	N-CA-C	7.63	122.41	113.18
1	G	267	ARG	N-CA-C	7.63	122.41	113.18
1	K	267	ARG	N-CA-C	7.63	122.41	113.18
1	O	267	ARG	N-CA-C	7.63	122.41	113.18
1	S	267	ARG	N-CA-C	7.63	122.41	113.18
1	W	267	ARG	N-CA-C	7.63	122.41	113.18
1	a	267	ARG	N-CA-C	7.63	122.41	113.18
1	e	267	ARG	N-CA-C	7.63	122.41	113.18
1	A	217	ILE	N-CA-C	-7.62	103.08	112.76
1	C	217	ILE	N-CA-C	-7.62	103.08	112.76
1	E	217	ILE	N-CA-C	-7.62	103.08	112.76
1	G	217	ILE	N-CA-C	-7.62	103.08	112.76
1	I	217	ILE	N-CA-C	-7.62	103.08	112.76
1	K	217	ILE	N-CA-C	-7.62	103.08	112.76
1	M	217	ILE	N-CA-C	-7.62	103.08	112.76
1	O	217	ILE	N-CA-C	-7.62	103.08	112.76
1	Q	217	ILE	N-CA-C	-7.62	103.08	112.76
1	S	217	ILE	N-CA-C	-7.62	103.08	112.76
1	U	217	ILE	N-CA-C	-7.62	103.08	112.76
1	W	217	ILE	N-CA-C	-7.62	103.08	112.76
1	Y	217	ILE	N-CA-C	-7.62	103.08	112.76
1	a	217	ILE	N-CA-C	-7.62	103.08	112.76
1	c	217	ILE	N-CA-C	-7.62	103.08	112.76
1	e	217	ILE	N-CA-C	-7.62	103.08	112.76
1	A	267	ARG	N-CA-C	7.60	122.38	113.18
1	E	267	ARG	N-CA-C	7.60	122.38	113.18
1	I	267	ARG	N-CA-C	7.60	122.38	113.18
1	M	267	ARG	N-CA-C	7.60	122.38	113.18
1	Q	267	ARG	N-CA-C	7.60	122.38	113.18
1	U	267	ARG	N-CA-C	7.60	122.38	113.18
1	Y	267	ARG	N-CA-C	7.60	122.38	113.18
1	c	267	ARG	N-CA-C	7.60	122.38	113.18
1	C	115	ASN	N-CA-C	7.57	119.32	111.14

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	G	115	ASN	N-CA-C	7.57	119.32	111.14
1	K	115	ASN	N-CA-C	7.57	119.32	111.14
1	O	115	ASN	N-CA-C	7.57	119.32	111.14
1	S	115	ASN	N-CA-C	7.57	119.32	111.14
1	W	115	ASN	N-CA-C	7.57	119.32	111.14
1	a	115	ASN	N-CA-C	7.57	119.32	111.14
1	e	115	ASN	N-CA-C	7.57	119.32	111.14
1	A	115	ASN	N-CA-C	7.56	119.31	111.14
1	E	115	ASN	N-CA-C	7.56	119.31	111.14
1	I	115	ASN	N-CA-C	7.56	119.31	111.14
1	M	115	ASN	N-CA-C	7.56	119.31	111.14
1	Q	115	ASN	N-CA-C	7.56	119.31	111.14
1	U	115	ASN	N-CA-C	7.56	119.31	111.14
1	Y	115	ASN	N-CA-C	7.56	119.31	111.14
1	c	115	ASN	N-CA-C	7.56	119.31	111.14
1	A	240	CYS	CA-CB-SG	-7.56	97.02	114.40
1	E	240	CYS	CA-CB-SG	-7.56	97.02	114.40
1	I	240	CYS	CA-CB-SG	-7.56	97.02	114.40
1	M	240	CYS	CA-CB-SG	-7.56	97.02	114.40
1	Q	240	CYS	CA-CB-SG	-7.56	97.02	114.40
1	U	240	CYS	CA-CB-SG	-7.56	97.02	114.40
1	Y	240	CYS	CA-CB-SG	-7.56	97.02	114.40
1	c	240	CYS	CA-CB-SG	-7.56	97.02	114.40
1	C	240	CYS	CA-CB-SG	-7.55	97.04	114.40
1	G	240	CYS	CA-CB-SG	-7.55	97.04	114.40
1	K	240	CYS	CA-CB-SG	-7.55	97.04	114.40
1	O	240	CYS	CA-CB-SG	-7.55	97.04	114.40
1	S	240	CYS	CA-CB-SG	-7.55	97.04	114.40
1	W	240	CYS	CA-CB-SG	-7.55	97.04	114.40
1	a	240	CYS	CA-CB-SG	-7.55	97.04	114.40
1	e	240	CYS	CA-CB-SG	-7.55	97.04	114.40
1	A	268	PHE	N-CA-C	7.40	120.66	109.41
1	E	268	PHE	N-CA-C	7.40	120.66	109.41
1	I	268	PHE	N-CA-C	7.40	120.66	109.41
1	M	268	PHE	N-CA-C	7.40	120.66	109.41
1	Q	268	PHE	N-CA-C	7.40	120.66	109.41
1	U	268	PHE	N-CA-C	7.40	120.66	109.41
1	Y	268	PHE	N-CA-C	7.40	120.66	109.41
1	c	268	PHE	N-CA-C	7.40	120.66	109.41
1	C	268	PHE	N-CA-C	7.40	120.66	109.41
1	G	268	PHE	N-CA-C	7.40	120.66	109.41
1	K	268	PHE	N-CA-C	7.40	120.66	109.41

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	O	268	PHE	N-CA-C	7.40	120.66	109.41
1	S	268	PHE	N-CA-C	7.40	120.66	109.41
1	W	268	PHE	N-CA-C	7.40	120.66	109.41
1	a	268	PHE	N-CA-C	7.40	120.66	109.41
1	e	268	PHE	N-CA-C	7.40	120.66	109.41
1	O	75	LYS	N-CA-C	-7.38	103.24	111.28
1	S	75	LYS	N-CA-C	-7.38	103.24	111.28
1	W	75	LYS	N-CA-C	-7.38	103.24	111.28
1	C	75	LYS	N-CA-C	-7.35	103.27	111.28
1	G	75	LYS	N-CA-C	-7.35	103.27	111.28
1	K	75	LYS	N-CA-C	-7.35	103.27	111.28
1	a	75	LYS	N-CA-C	-7.35	103.27	111.28
1	e	75	LYS	N-CA-C	-7.35	103.27	111.28
1	A	75	LYS	N-CA-C	-7.32	103.31	111.28
1	E	75	LYS	N-CA-C	-7.32	103.31	111.28
1	I	75	LYS	N-CA-C	-7.32	103.31	111.28
1	M	75	LYS	N-CA-C	-7.32	103.31	111.28
1	Q	75	LYS	N-CA-C	-7.32	103.31	111.28
1	U	75	LYS	N-CA-C	-7.32	103.31	111.28
1	Y	75	LYS	N-CA-C	-7.32	103.31	111.28
1	c	75	LYS	N-CA-C	-7.32	103.31	111.28
1	A	167	SER	N-CA-C	7.28	121.41	110.64
1	E	167	SER	N-CA-C	7.28	121.41	110.64
1	I	167	SER	N-CA-C	7.28	121.41	110.64
1	M	167	SER	N-CA-C	7.28	121.41	110.64
1	Q	167	SER	N-CA-C	7.28	121.41	110.64
1	U	167	SER	N-CA-C	7.28	121.41	110.64
1	Y	167	SER	N-CA-C	7.28	121.41	110.64
1	c	167	SER	N-CA-C	7.28	121.41	110.64
1	C	167	SER	N-CA-C	7.26	121.38	110.64
1	G	167	SER	N-CA-C	7.26	121.38	110.64
1	K	167	SER	N-CA-C	7.26	121.38	110.64
1	O	167	SER	N-CA-C	7.26	121.38	110.64
1	S	167	SER	N-CA-C	7.26	121.38	110.64
1	W	167	SER	N-CA-C	7.26	121.38	110.64
1	a	167	SER	N-CA-C	7.26	121.38	110.64
1	e	167	SER	N-CA-C	7.26	121.38	110.64
1	A	492	LEU	N-CA-C	-7.08	104.45	113.23
1	E	492	LEU	N-CA-C	-7.08	104.45	113.23
1	I	492	LEU	N-CA-C	-7.08	104.45	113.23
1	M	492	LEU	N-CA-C	-7.08	104.45	113.23
1	Q	492	LEU	N-CA-C	-7.08	104.45	113.23

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	U	492	LEU	N-CA-C	-7.08	104.45	113.23
1	Y	492	LEU	N-CA-C	-7.08	104.45	113.23
1	c	492	LEU	N-CA-C	-7.08	104.45	113.23
1	C	492	LEU	N-CA-C	-7.07	104.47	113.23
1	G	492	LEU	N-CA-C	-7.07	104.47	113.23
1	K	492	LEU	N-CA-C	-7.07	104.47	113.23
1	O	492	LEU	N-CA-C	-7.07	104.47	113.23
1	S	492	LEU	N-CA-C	-7.07	104.47	113.23
1	W	492	LEU	N-CA-C	-7.07	104.47	113.23
1	a	492	LEU	N-CA-C	-7.07	104.47	113.23
1	e	492	LEU	N-CA-C	-7.07	104.47	113.23
1	A	170	VAL	CB-CA-C	-7.03	102.25	111.88
1	E	170	VAL	CB-CA-C	-7.03	102.25	111.88
1	I	170	VAL	CB-CA-C	-7.03	102.25	111.88
1	M	170	VAL	CB-CA-C	-7.03	102.25	111.88
1	Q	170	VAL	CB-CA-C	-7.03	102.25	111.88
1	U	170	VAL	CB-CA-C	-7.03	102.25	111.88
1	Y	170	VAL	CB-CA-C	-7.03	102.25	111.88
1	c	170	VAL	CB-CA-C	-7.03	102.25	111.88
1	C	170	VAL	CB-CA-C	-7.03	102.25	111.88
1	G	170	VAL	CB-CA-C	-7.03	102.25	111.88
1	K	170	VAL	CB-CA-C	-7.03	102.25	111.88
1	O	170	VAL	CB-CA-C	-7.03	102.25	111.88
1	S	170	VAL	CB-CA-C	-7.03	102.25	111.88
1	W	170	VAL	CB-CA-C	-7.03	102.25	111.88
1	a	170	VAL	CB-CA-C	-7.03	102.25	111.88
1	e	170	VAL	CB-CA-C	-7.03	102.25	111.88
1	C	254	ASN	N-CA-C	-6.92	102.89	111.75
1	G	254	ASN	N-CA-C	-6.92	102.89	111.75
1	K	254	ASN	N-CA-C	-6.92	102.89	111.75
1	O	254	ASN	N-CA-C	-6.92	102.89	111.75
1	S	254	ASN	N-CA-C	-6.92	102.89	111.75
1	W	254	ASN	N-CA-C	-6.92	102.89	111.75
1	a	254	ASN	N-CA-C	-6.92	102.89	111.75
1	e	254	ASN	N-CA-C	-6.92	102.89	111.75
1	A	254	ASN	N-CA-C	-6.90	102.91	111.75
1	E	254	ASN	N-CA-C	-6.90	102.91	111.75
1	I	254	ASN	N-CA-C	-6.90	102.91	111.75
1	M	254	ASN	N-CA-C	-6.90	102.91	111.75
1	Q	254	ASN	N-CA-C	-6.90	102.91	111.75
1	U	254	ASN	N-CA-C	-6.90	102.91	111.75
1	Y	254	ASN	N-CA-C	-6.90	102.91	111.75

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	c	254	ASN	N-CA-C	-6.90	102.91	111.75
1	A	557	LYS	CB-CA-C	-6.90	98.71	109.61
1	E	557	LYS	CB-CA-C	-6.90	98.71	109.61
1	I	557	LYS	CB-CA-C	-6.90	98.71	109.61
1	M	557	LYS	CB-CA-C	-6.90	98.71	109.61
1	Q	557	LYS	CB-CA-C	-6.90	98.71	109.61
1	U	557	LYS	CB-CA-C	-6.90	98.71	109.61
1	Y	557	LYS	CB-CA-C	-6.90	98.71	109.61
1	c	557	LYS	CB-CA-C	-6.90	98.71	109.61
1	C	557	LYS	CB-CA-C	-6.88	98.74	109.61
1	G	557	LYS	CB-CA-C	-6.88	98.74	109.61
1	K	557	LYS	CB-CA-C	-6.88	98.74	109.61
1	O	557	LYS	CB-CA-C	-6.88	98.74	109.61
1	S	557	LYS	CB-CA-C	-6.88	98.74	109.61
1	W	557	LYS	CB-CA-C	-6.88	98.74	109.61
1	a	557	LYS	CB-CA-C	-6.88	98.74	109.61
1	e	557	LYS	CB-CA-C	-6.88	98.74	109.61
1	A	309	PRO	N-CA-CB	6.87	110.46	103.25
1	E	309	PRO	N-CA-CB	6.87	110.46	103.25
1	I	309	PRO	N-CA-CB	6.87	110.46	103.25
1	M	309	PRO	N-CA-CB	6.87	110.46	103.25
1	Q	309	PRO	N-CA-CB	6.87	110.46	103.25
1	U	309	PRO	N-CA-CB	6.87	110.46	103.25
1	Y	309	PRO	N-CA-CB	6.87	110.46	103.25
1	c	309	PRO	N-CA-CB	6.87	110.46	103.25
1	A	337	THR	N-CA-C	6.86	118.41	111.07
1	E	337	THR	N-CA-C	6.86	118.41	111.07
1	I	337	THR	N-CA-C	6.86	118.41	111.07
1	M	337	THR	N-CA-C	6.86	118.41	111.07
1	Q	337	THR	N-CA-C	6.86	118.41	111.07
1	U	337	THR	N-CA-C	6.86	118.41	111.07
1	Y	337	THR	N-CA-C	6.86	118.41	111.07
1	c	337	THR	N-CA-C	6.86	118.41	111.07
1	C	309	PRO	N-CA-CB	6.86	110.45	103.25
1	G	309	PRO	N-CA-CB	6.86	110.45	103.25
1	K	309	PRO	N-CA-CB	6.86	110.45	103.25
1	O	309	PRO	N-CA-CB	6.86	110.45	103.25
1	S	309	PRO	N-CA-CB	6.86	110.45	103.25
1	W	309	PRO	N-CA-CB	6.86	110.45	103.25
1	a	309	PRO	N-CA-CB	6.86	110.45	103.25
1	e	309	PRO	N-CA-CB	6.86	110.45	103.25
1	C	337	THR	N-CA-C	6.86	118.41	111.07

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	G	337	THR	N-CA-C	6.86	118.41	111.07
1	K	337	THR	N-CA-C	6.86	118.41	111.07
1	O	337	THR	N-CA-C	6.86	118.41	111.07
1	S	337	THR	N-CA-C	6.86	118.41	111.07
1	W	337	THR	N-CA-C	6.86	118.41	111.07
1	a	337	THR	N-CA-C	6.86	118.41	111.07
1	e	337	THR	N-CA-C	6.86	118.41	111.07
1	C	459	ILE	CA-C-N	-6.80	113.38	120.38
1	C	459	ILE	C-N-CA	-6.80	113.38	120.38
1	G	459	ILE	CA-C-N	-6.80	113.38	120.38
1	G	459	ILE	C-N-CA	-6.80	113.38	120.38
1	K	459	ILE	CA-C-N	-6.80	113.38	120.38
1	K	459	ILE	C-N-CA	-6.80	113.38	120.38
1	O	459	ILE	CA-C-N	-6.80	113.38	120.38
1	O	459	ILE	C-N-CA	-6.80	113.38	120.38
1	S	459	ILE	CA-C-N	-6.80	113.38	120.38
1	S	459	ILE	C-N-CA	-6.80	113.38	120.38
1	W	459	ILE	CA-C-N	-6.80	113.38	120.38
1	W	459	ILE	C-N-CA	-6.80	113.38	120.38
1	a	459	ILE	CA-C-N	-6.80	113.38	120.38
1	a	459	ILE	C-N-CA	-6.80	113.38	120.38
1	e	459	ILE	CA-C-N	-6.80	113.38	120.38
1	e	459	ILE	C-N-CA	-6.80	113.38	120.38
1	A	459	ILE	CA-C-N	-6.79	113.38	120.38
1	A	459	ILE	C-N-CA	-6.79	113.38	120.38
1	E	459	ILE	CA-C-N	-6.79	113.38	120.38
1	E	459	ILE	C-N-CA	-6.79	113.38	120.38
1	I	459	ILE	CA-C-N	-6.79	113.38	120.38
1	I	459	ILE	C-N-CA	-6.79	113.38	120.38
1	M	459	ILE	CA-C-N	-6.79	113.38	120.38
1	M	459	ILE	C-N-CA	-6.79	113.38	120.38
1	Q	459	ILE	CA-C-N	-6.79	113.38	120.38
1	Q	459	ILE	C-N-CA	-6.79	113.38	120.38
1	U	459	ILE	CA-C-N	-6.79	113.38	120.38
1	U	459	ILE	C-N-CA	-6.79	113.38	120.38
1	Y	459	ILE	CA-C-N	-6.79	113.38	120.38
1	Y	459	ILE	C-N-CA	-6.79	113.38	120.38
1	c	459	ILE	CA-C-N	-6.79	113.38	120.38
1	c	459	ILE	C-N-CA	-6.79	113.38	120.38
1	C	156	GLY	N-CA-C	-6.79	105.46	115.72
1	G	156	GLY	N-CA-C	-6.79	105.46	115.72
1	K	156	GLY	N-CA-C	-6.79	105.46	115.72

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	O	156	GLY	N-CA-C	-6.79	105.46	115.72
1	S	156	GLY	N-CA-C	-6.79	105.46	115.72
1	W	156	GLY	N-CA-C	-6.79	105.46	115.72
1	a	156	GLY	N-CA-C	-6.79	105.46	115.72
1	e	156	GLY	N-CA-C	-6.79	105.46	115.72
1	A	156	GLY	N-CA-C	-6.79	105.47	115.72
1	E	156	GLY	N-CA-C	-6.79	105.47	115.72
1	I	156	GLY	N-CA-C	-6.79	105.47	115.72
1	M	156	GLY	N-CA-C	-6.79	105.47	115.72
1	Q	156	GLY	N-CA-C	-6.79	105.47	115.72
1	U	156	GLY	N-CA-C	-6.79	105.47	115.72
1	Y	156	GLY	N-CA-C	-6.79	105.47	115.72
1	c	156	GLY	N-CA-C	-6.79	105.47	115.72
1	C	288	HIS	N-CA-C	6.78	118.67	111.28
1	G	288	HIS	N-CA-C	6.78	118.67	111.28
1	K	288	HIS	N-CA-C	6.78	118.67	111.28
1	O	288	HIS	N-CA-C	6.78	118.67	111.28
1	S	288	HIS	N-CA-C	6.78	118.67	111.28
1	W	288	HIS	N-CA-C	6.78	118.67	111.28
1	a	288	HIS	N-CA-C	6.78	118.67	111.28
1	e	288	HIS	N-CA-C	6.78	118.67	111.28
1	A	166	LEU	N-CA-C	-6.78	103.82	111.14
1	E	166	LEU	N-CA-C	-6.78	103.82	111.14
1	I	166	LEU	N-CA-C	-6.78	103.82	111.14
1	M	166	LEU	N-CA-C	-6.78	103.82	111.14
1	Q	166	LEU	N-CA-C	-6.78	103.82	111.14
1	U	166	LEU	N-CA-C	-6.78	103.82	111.14
1	Y	166	LEU	N-CA-C	-6.78	103.82	111.14
1	c	166	LEU	N-CA-C	-6.78	103.82	111.14
1	A	288	HIS	N-CA-C	6.74	118.63	111.28
1	E	288	HIS	N-CA-C	6.74	118.63	111.28
1	I	288	HIS	N-CA-C	6.74	118.63	111.28
1	M	288	HIS	N-CA-C	6.74	118.63	111.28
1	Q	288	HIS	N-CA-C	6.74	118.63	111.28
1	U	288	HIS	N-CA-C	6.74	118.63	111.28
1	Y	288	HIS	N-CA-C	6.74	118.63	111.28
1	c	288	HIS	N-CA-C	6.74	118.63	111.28
1	C	166	LEU	N-CA-C	-6.73	103.87	111.14
1	G	166	LEU	N-CA-C	-6.73	103.87	111.14
1	K	166	LEU	N-CA-C	-6.73	103.87	111.14
1	O	166	LEU	N-CA-C	-6.73	103.87	111.14
1	S	166	LEU	N-CA-C	-6.73	103.87	111.14

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	W	166	LEU	N-CA-C	-6.73	103.87	111.14
1	a	166	LEU	N-CA-C	-6.73	103.87	111.14
1	e	166	LEU	N-CA-C	-6.73	103.87	111.14
2	D	39	VAL	N-CA-C	-6.72	103.77	110.62
2	H	39	VAL	N-CA-C	-6.72	103.77	110.62
2	L	39	VAL	N-CA-C	-6.72	103.77	110.62
2	P	39	VAL	N-CA-C	-6.72	103.77	110.62
2	T	39	VAL	N-CA-C	-6.72	103.77	110.62
2	X	39	VAL	N-CA-C	-6.72	103.77	110.62
2	b	39	VAL	N-CA-C	-6.72	103.77	110.62
2	f	39	VAL	N-CA-C	-6.72	103.77	110.62
2	B	39	VAL	N-CA-C	-6.71	103.77	110.62
2	F	39	VAL	N-CA-C	-6.71	103.77	110.62
2	J	39	VAL	N-CA-C	-6.71	103.77	110.62
2	N	39	VAL	N-CA-C	-6.71	103.77	110.62
2	R	39	VAL	N-CA-C	-6.71	103.77	110.62
2	V	39	VAL	N-CA-C	-6.71	103.77	110.62
2	Z	39	VAL	N-CA-C	-6.71	103.77	110.62
2	d	39	VAL	N-CA-C	-6.71	103.77	110.62
1	C	197	GLN	N-CA-C	-6.71	103.44	111.69
1	G	197	GLN	N-CA-C	-6.71	103.44	111.69
1	K	197	GLN	N-CA-C	-6.71	103.44	111.69
1	O	197	GLN	N-CA-C	-6.71	103.44	111.69
1	W	197	GLN	N-CA-C	-6.71	103.44	111.69
1	a	197	GLN	N-CA-C	-6.71	103.44	111.69
1	e	197	GLN	N-CA-C	-6.71	103.44	111.69
1	A	280	THR	CA-C-N	-6.70	111.24	122.29
1	A	280	THR	C-N-CA	-6.70	111.24	122.29
1	E	280	THR	CA-C-N	-6.70	111.24	122.29
1	E	280	THR	C-N-CA	-6.70	111.24	122.29
1	I	280	THR	CA-C-N	-6.70	111.24	122.29
1	I	280	THR	C-N-CA	-6.70	111.24	122.29
1	M	280	THR	CA-C-N	-6.70	111.24	122.29
1	M	280	THR	C-N-CA	-6.70	111.24	122.29
1	Q	280	THR	CA-C-N	-6.70	111.24	122.29
1	Q	280	THR	C-N-CA	-6.70	111.24	122.29
1	U	280	THR	CA-C-N	-6.70	111.24	122.29
1	U	280	THR	C-N-CA	-6.70	111.24	122.29
1	Y	280	THR	CA-C-N	-6.70	111.24	122.29
1	Y	280	THR	C-N-CA	-6.70	111.24	122.29
1	c	280	THR	CA-C-N	-6.70	111.24	122.29
1	c	280	THR	C-N-CA	-6.70	111.24	122.29

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	556	SER	CA-C-N	6.69	131.28	121.31
1	A	556	SER	C-N-CA	6.69	131.28	121.31
1	E	556	SER	CA-C-N	6.69	131.28	121.31
1	E	556	SER	C-N-CA	6.69	131.28	121.31
1	I	556	SER	CA-C-N	6.69	131.28	121.31
1	I	556	SER	C-N-CA	6.69	131.28	121.31
1	M	556	SER	CA-C-N	6.69	131.28	121.31
1	M	556	SER	C-N-CA	6.69	131.28	121.31
1	Q	556	SER	CA-C-N	6.69	131.28	121.31
1	Q	556	SER	C-N-CA	6.69	131.28	121.31
1	U	556	SER	CA-C-N	6.69	131.28	121.31
1	U	556	SER	C-N-CA	6.69	131.28	121.31
1	Y	556	SER	CA-C-N	6.69	131.28	121.31
1	Y	556	SER	C-N-CA	6.69	131.28	121.31
1	c	556	SER	CA-C-N	6.69	131.28	121.31
1	c	556	SER	C-N-CA	6.69	131.28	121.31
1	C	556	SER	CA-C-N	6.68	131.27	121.31
1	C	556	SER	C-N-CA	6.68	131.27	121.31
1	G	556	SER	CA-C-N	6.68	131.27	121.31
1	G	556	SER	C-N-CA	6.68	131.27	121.31
1	K	556	SER	CA-C-N	6.68	131.27	121.31
1	K	556	SER	C-N-CA	6.68	131.27	121.31
1	O	556	SER	CA-C-N	6.68	131.27	121.31
1	O	556	SER	C-N-CA	6.68	131.27	121.31
1	S	556	SER	CA-C-N	6.68	131.27	121.31
1	S	556	SER	C-N-CA	6.68	131.27	121.31
1	W	556	SER	CA-C-N	6.68	131.27	121.31
1	W	556	SER	C-N-CA	6.68	131.27	121.31
1	a	556	SER	CA-C-N	6.68	131.27	121.31
1	a	556	SER	C-N-CA	6.68	131.27	121.31
1	e	556	SER	CA-C-N	6.68	131.27	121.31
1	e	556	SER	C-N-CA	6.68	131.27	121.31
1	A	197	GLN	N-CA-C	-6.68	103.47	111.69
1	E	197	GLN	N-CA-C	-6.68	103.47	111.69
1	I	197	GLN	N-CA-C	-6.68	103.47	111.69
1	M	197	GLN	N-CA-C	-6.68	103.47	111.69
1	Q	197	GLN	N-CA-C	-6.68	103.47	111.69
1	U	197	GLN	N-CA-C	-6.68	103.47	111.69
1	Y	197	GLN	N-CA-C	-6.68	103.47	111.69
1	c	197	GLN	N-CA-C	-6.68	103.47	111.69
1	C	280	THR	CA-C-N	-6.67	111.28	122.29
1	C	280	THR	C-N-CA	-6.67	111.28	122.29

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	G	280	THR	CA-C-N	-6.67	111.28	122.29
1	G	280	THR	C-N-CA	-6.67	111.28	122.29
1	K	280	THR	CA-C-N	-6.67	111.28	122.29
1	K	280	THR	C-N-CA	-6.67	111.28	122.29
1	O	280	THR	CA-C-N	-6.67	111.28	122.29
1	O	280	THR	C-N-CA	-6.67	111.28	122.29
1	S	280	THR	CA-C-N	-6.67	111.28	122.29
1	S	280	THR	C-N-CA	-6.67	111.28	122.29
1	W	280	THR	CA-C-N	-6.67	111.28	122.29
1	W	280	THR	C-N-CA	-6.67	111.28	122.29
1	a	280	THR	CA-C-N	-6.67	111.28	122.29
1	a	280	THR	C-N-CA	-6.67	111.28	122.29
1	e	280	THR	CA-C-N	-6.67	111.28	122.29
1	e	280	THR	C-N-CA	-6.67	111.28	122.29
1	S	197	GLN	N-CA-C	-6.67	103.49	111.69
1	A	313	PRO	N-CA-CB	6.65	110.38	102.60
1	E	313	PRO	N-CA-CB	6.65	110.38	102.60
1	I	313	PRO	N-CA-CB	6.65	110.38	102.60
1	M	313	PRO	N-CA-CB	6.65	110.38	102.60
1	Q	313	PRO	N-CA-CB	6.65	110.38	102.60
1	U	313	PRO	N-CA-CB	6.65	110.38	102.60
1	Y	313	PRO	N-CA-CB	6.65	110.38	102.60
1	c	313	PRO	N-CA-CB	6.65	110.38	102.60
1	C	313	PRO	N-CA-CB	6.64	110.37	102.60
1	G	313	PRO	N-CA-CB	6.64	110.37	102.60
1	K	313	PRO	N-CA-CB	6.64	110.37	102.60
1	O	313	PRO	N-CA-CB	6.64	110.37	102.60
1	S	313	PRO	N-CA-CB	6.64	110.37	102.60
1	W	313	PRO	N-CA-CB	6.64	110.37	102.60
1	a	313	PRO	N-CA-CB	6.64	110.37	102.60
1	e	313	PRO	N-CA-CB	6.64	110.37	102.60
1	C	119	VAL	N-CA-C	-6.56	102.45	111.89
1	G	119	VAL	N-CA-C	-6.56	102.45	111.89
1	K	119	VAL	N-CA-C	-6.56	102.45	111.89
1	O	119	VAL	N-CA-C	-6.56	102.45	111.89
1	S	119	VAL	N-CA-C	-6.56	102.45	111.89
1	W	119	VAL	N-CA-C	-6.56	102.45	111.89
1	a	119	VAL	N-CA-C	-6.56	102.45	111.89
1	e	119	VAL	N-CA-C	-6.56	102.45	111.89
1	A	119	VAL	N-CA-C	-6.56	102.45	111.89
1	E	119	VAL	N-CA-C	-6.56	102.45	111.89
1	I	119	VAL	N-CA-C	-6.56	102.45	111.89

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	M	119	VAL	N-CA-C	-6.56	102.45	111.89
1	Q	119	VAL	N-CA-C	-6.56	102.45	111.89
1	U	119	VAL	N-CA-C	-6.56	102.45	111.89
1	Y	119	VAL	N-CA-C	-6.56	102.45	111.89
1	c	119	VAL	N-CA-C	-6.56	102.45	111.89
1	C	213	HIS	N-CA-C	-6.53	97.13	108.69
1	G	93	LYS	N-CA-C	-6.53	103.39	111.75
1	G	213	HIS	N-CA-C	-6.53	97.13	108.69
1	K	93	LYS	N-CA-C	-6.53	103.39	111.75
1	K	213	HIS	N-CA-C	-6.53	97.13	108.69
1	O	93	LYS	N-CA-C	-6.53	103.39	111.75
1	O	213	HIS	N-CA-C	-6.53	97.13	108.69
1	S	93	LYS	N-CA-C	-6.53	103.39	111.75
1	S	213	HIS	N-CA-C	-6.53	97.13	108.69
1	W	93	LYS	N-CA-C	-6.53	103.39	111.75
1	W	213	HIS	N-CA-C	-6.53	97.13	108.69
1	a	93	LYS	N-CA-C	-6.53	103.39	111.75
1	a	213	HIS	N-CA-C	-6.53	97.13	108.69
1	e	93	LYS	N-CA-C	-6.53	103.39	111.75
1	e	213	HIS	N-CA-C	-6.53	97.13	108.69
1	A	213	HIS	N-CA-C	-6.52	97.14	108.69
1	E	213	HIS	N-CA-C	-6.52	97.14	108.69
1	I	213	HIS	N-CA-C	-6.52	97.14	108.69
1	M	213	HIS	N-CA-C	-6.52	97.14	108.69
1	Q	213	HIS	N-CA-C	-6.52	97.14	108.69
1	U	213	HIS	N-CA-C	-6.52	97.14	108.69
1	Y	213	HIS	N-CA-C	-6.52	97.14	108.69
1	c	213	HIS	N-CA-C	-6.52	97.14	108.69
1	A	93	LYS	N-CA-C	-6.51	103.42	111.75
1	E	93	LYS	N-CA-C	-6.51	103.42	111.75
1	I	93	LYS	N-CA-C	-6.51	103.42	111.75
1	M	93	LYS	N-CA-C	-6.51	103.42	111.75
1	Q	93	LYS	N-CA-C	-6.51	103.42	111.75
1	U	93	LYS	N-CA-C	-6.51	103.42	111.75
1	Y	93	LYS	N-CA-C	-6.51	103.42	111.75
1	c	93	LYS	N-CA-C	-6.51	103.42	111.75
1	C	93	LYS	N-CA-C	-6.51	103.42	111.75
1	A	520	GLN	N-CA-C	-6.47	104.15	111.07
1	E	520	GLN	N-CA-C	-6.47	104.15	111.07
1	G	520	GLN	N-CA-C	-6.47	104.15	111.07
1	I	520	GLN	N-CA-C	-6.47	104.15	111.07
1	K	520	GLN	N-CA-C	-6.47	104.15	111.07

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	M	520	GLN	N-CA-C	-6.47	104.15	111.07
1	O	520	GLN	N-CA-C	-6.47	104.15	111.07
1	Q	520	GLN	N-CA-C	-6.47	104.15	111.07
1	S	520	GLN	N-CA-C	-6.47	104.15	111.07
1	U	520	GLN	N-CA-C	-6.47	104.15	111.07
1	W	520	GLN	N-CA-C	-6.47	104.15	111.07
1	Y	520	GLN	N-CA-C	-6.47	104.15	111.07
1	a	520	GLN	N-CA-C	-6.47	104.15	111.07
1	c	520	GLN	N-CA-C	-6.47	104.15	111.07
1	e	520	GLN	N-CA-C	-6.47	104.15	111.07
1	C	520	GLN	N-CA-C	-6.42	104.20	111.07
1	C	376	PRO	O-C-N	6.41	124.26	121.31
1	G	376	PRO	O-C-N	6.41	124.26	121.31
1	K	376	PRO	O-C-N	6.41	124.26	121.31
1	O	376	PRO	O-C-N	6.41	124.26	121.31
1	S	376	PRO	O-C-N	6.41	124.26	121.31
1	W	376	PRO	O-C-N	6.41	124.26	121.31
1	a	376	PRO	O-C-N	6.41	124.26	121.31
1	e	376	PRO	O-C-N	6.41	124.26	121.31
1	A	376	PRO	O-C-N	6.34	124.23	121.31
1	E	376	PRO	O-C-N	6.34	124.23	121.31
1	I	376	PRO	O-C-N	6.34	124.23	121.31
1	M	376	PRO	O-C-N	6.34	124.23	121.31
1	Q	376	PRO	O-C-N	6.34	124.23	121.31
1	U	376	PRO	O-C-N	6.34	124.23	121.31
1	Y	376	PRO	O-C-N	6.34	124.23	121.31
1	c	376	PRO	O-C-N	6.34	124.23	121.31
1	A	430	LYS	CD-CE-NZ	6.34	132.18	111.90
1	E	430	LYS	CD-CE-NZ	6.34	132.18	111.90
1	I	430	LYS	CD-CE-NZ	6.34	132.18	111.90
1	M	430	LYS	CD-CE-NZ	6.34	132.18	111.90
1	Q	430	LYS	CD-CE-NZ	6.34	132.18	111.90
1	U	430	LYS	CD-CE-NZ	6.34	132.18	111.90
1	Y	430	LYS	CD-CE-NZ	6.34	132.18	111.90
1	c	430	LYS	CD-CE-NZ	6.34	132.18	111.90
1	C	430	LYS	CD-CE-NZ	6.33	132.15	111.90
1	G	430	LYS	CD-CE-NZ	6.33	132.15	111.90
1	K	430	LYS	CD-CE-NZ	6.33	132.15	111.90
1	O	430	LYS	CD-CE-NZ	6.33	132.15	111.90
1	S	430	LYS	CD-CE-NZ	6.33	132.15	111.90
1	W	430	LYS	CD-CE-NZ	6.33	132.15	111.90
1	a	430	LYS	CD-CE-NZ	6.33	132.15	111.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	e	430	LYS	CD-CE-NZ	6.33	132.15	111.90
1	C	104	ARG	N-CA-C	-6.31	104.46	111.71
1	G	104	ARG	N-CA-C	-6.31	104.46	111.71
1	K	104	ARG	N-CA-C	-6.31	104.46	111.71
1	O	104	ARG	N-CA-C	-6.31	104.46	111.71
1	S	104	ARG	N-CA-C	-6.31	104.46	111.71
1	W	104	ARG	N-CA-C	-6.31	104.46	111.71
1	a	104	ARG	N-CA-C	-6.31	104.46	111.71
1	e	104	ARG	N-CA-C	-6.31	104.46	111.71
1	A	104	ARG	N-CA-C	-6.29	104.48	111.71
1	E	104	ARG	N-CA-C	-6.29	104.48	111.71
1	I	104	ARG	N-CA-C	-6.29	104.48	111.71
1	M	104	ARG	N-CA-C	-6.29	104.48	111.71
1	Q	104	ARG	N-CA-C	-6.29	104.48	111.71
1	U	104	ARG	N-CA-C	-6.29	104.48	111.71
1	Y	104	ARG	N-CA-C	-6.29	104.48	111.71
1	c	104	ARG	N-CA-C	-6.29	104.48	111.71
1	A	415	PRO	N-CA-C	6.22	127.66	112.10
1	E	415	PRO	N-CA-C	6.22	127.66	112.10
1	I	415	PRO	N-CA-C	6.22	127.66	112.10
1	M	415	PRO	N-CA-C	6.22	127.66	112.10
1	Q	415	PRO	N-CA-C	6.22	127.66	112.10
1	U	415	PRO	N-CA-C	6.22	127.66	112.10
1	Y	415	PRO	N-CA-C	6.22	127.66	112.10
1	c	415	PRO	N-CA-C	6.22	127.66	112.10
1	C	415	PRO	N-CA-C	6.22	127.65	112.10
1	G	415	PRO	N-CA-C	6.22	127.65	112.10
1	K	415	PRO	N-CA-C	6.22	127.65	112.10
1	O	415	PRO	N-CA-C	6.22	127.65	112.10
1	S	415	PRO	N-CA-C	6.22	127.65	112.10
1	W	415	PRO	N-CA-C	6.22	127.65	112.10
1	a	415	PRO	N-CA-C	6.22	127.65	112.10
1	e	415	PRO	N-CA-C	6.22	127.65	112.10
1	C	183	LEU	O-C-N	-6.07	114.51	122.59
1	G	183	LEU	O-C-N	-6.07	114.51	122.59
1	K	183	LEU	O-C-N	-6.07	114.51	122.59
1	O	183	LEU	O-C-N	-6.07	114.51	122.59
1	S	183	LEU	O-C-N	-6.07	114.51	122.59
1	W	183	LEU	O-C-N	-6.07	114.51	122.59
1	a	183	LEU	O-C-N	-6.07	114.51	122.59
1	e	183	LEU	O-C-N	-6.07	114.51	122.59
1	A	183	LEU	O-C-N	-6.06	114.53	122.59

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	E	183	LEU	O-C-N	-6.06	114.53	122.59
1	I	183	LEU	O-C-N	-6.06	114.53	122.59
1	M	183	LEU	O-C-N	-6.06	114.53	122.59
1	Q	183	LEU	O-C-N	-6.06	114.53	122.59
1	U	183	LEU	O-C-N	-6.06	114.53	122.59
1	Y	183	LEU	O-C-N	-6.06	114.53	122.59
1	c	183	LEU	O-C-N	-6.06	114.53	122.59
2	B	41	GLN	N-CA-C	6.02	118.64	111.71
2	F	41	GLN	N-CA-C	6.02	118.64	111.71
2	J	41	GLN	N-CA-C	6.02	118.64	111.71
2	N	41	GLN	N-CA-C	6.02	118.64	111.71
2	R	41	GLN	N-CA-C	6.02	118.64	111.71
2	V	41	GLN	N-CA-C	6.02	118.64	111.71
2	Z	41	GLN	N-CA-C	6.02	118.64	111.71
2	d	41	GLN	N-CA-C	6.02	118.64	111.71
1	A	256	PHE	N-CA-C	6.02	120.32	112.92
1	E	256	PHE	N-CA-C	6.02	120.32	112.92
1	I	256	PHE	N-CA-C	6.02	120.32	112.92
1	M	256	PHE	N-CA-C	6.02	120.32	112.92
1	Q	256	PHE	N-CA-C	6.02	120.32	112.92
1	U	256	PHE	N-CA-C	6.02	120.32	112.92
1	Y	256	PHE	N-CA-C	6.02	120.32	112.92
1	c	256	PHE	N-CA-C	6.02	120.32	112.92
2	D	41	GLN	N-CA-C	6.00	118.60	111.71
2	H	41	GLN	N-CA-C	6.00	118.60	111.71
2	L	41	GLN	N-CA-C	6.00	118.60	111.71
2	P	41	GLN	N-CA-C	6.00	118.60	111.71
2	T	41	GLN	N-CA-C	6.00	118.60	111.71
2	X	41	GLN	N-CA-C	6.00	118.60	111.71
2	b	41	GLN	N-CA-C	6.00	118.60	111.71
2	f	41	GLN	N-CA-C	6.00	118.60	111.71
1	C	256	PHE	N-CA-C	5.99	120.28	112.92
1	G	256	PHE	N-CA-C	5.99	120.28	112.92
1	K	256	PHE	N-CA-C	5.99	120.28	112.92
1	O	256	PHE	N-CA-C	5.99	120.28	112.92
1	S	256	PHE	N-CA-C	5.99	120.28	112.92
1	W	256	PHE	N-CA-C	5.99	120.28	112.92
1	a	256	PHE	N-CA-C	5.99	120.28	112.92
1	e	256	PHE	N-CA-C	5.99	120.28	112.92
1	A	98	GLN	N-CA-C	5.92	124.88	107.37
1	E	98	GLN	N-CA-C	5.92	124.88	107.37
1	I	98	GLN	N-CA-C	5.92	124.88	107.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	M	98	GLN	N-CA-C	5.92	124.88	107.37
1	Q	98	GLN	N-CA-C	5.92	124.88	107.37
1	U	98	GLN	N-CA-C	5.92	124.88	107.37
1	Y	98	GLN	N-CA-C	5.92	124.88	107.37
1	c	98	GLN	N-CA-C	5.92	124.88	107.37
1	C	98	GLN	N-CA-C	5.91	124.86	107.37
1	G	98	GLN	N-CA-C	5.91	124.86	107.37
1	K	98	GLN	N-CA-C	5.91	124.86	107.37
1	O	98	GLN	N-CA-C	5.91	124.86	107.37
1	S	98	GLN	N-CA-C	5.91	124.86	107.37
1	W	98	GLN	N-CA-C	5.91	124.86	107.37
1	a	98	GLN	N-CA-C	5.91	124.86	107.37
1	e	98	GLN	N-CA-C	5.91	124.86	107.37
1	C	258	LEU	CA-C-N	-5.89	113.88	122.19
1	C	258	LEU	C-N-CA	-5.89	113.88	122.19
1	G	258	LEU	CA-C-N	-5.89	113.88	122.19
1	G	258	LEU	C-N-CA	-5.89	113.88	122.19
1	K	258	LEU	CA-C-N	-5.89	113.88	122.19
1	K	258	LEU	C-N-CA	-5.89	113.88	122.19
1	O	258	LEU	CA-C-N	-5.89	113.88	122.19
1	O	258	LEU	C-N-CA	-5.89	113.88	122.19
1	S	258	LEU	CA-C-N	-5.89	113.88	122.19
1	S	258	LEU	C-N-CA	-5.89	113.88	122.19
1	W	258	LEU	CA-C-N	-5.89	113.88	122.19
1	W	258	LEU	C-N-CA	-5.89	113.88	122.19
1	a	258	LEU	CA-C-N	-5.89	113.88	122.19
1	a	258	LEU	C-N-CA	-5.89	113.88	122.19
1	e	258	LEU	CA-C-N	-5.89	113.88	122.19
1	e	258	LEU	C-N-CA	-5.89	113.88	122.19
1	A	308	ARG	CA-C-N	-5.88	112.48	119.84
1	A	308	ARG	C-N-CA	-5.88	112.48	119.84
1	E	308	ARG	CA-C-N	-5.88	112.48	119.84
1	E	308	ARG	C-N-CA	-5.88	112.48	119.84
1	I	308	ARG	CA-C-N	-5.88	112.48	119.84
1	I	308	ARG	C-N-CA	-5.88	112.48	119.84
1	M	308	ARG	CA-C-N	-5.88	112.48	119.84
1	M	308	ARG	C-N-CA	-5.88	112.48	119.84
1	Q	308	ARG	CA-C-N	-5.88	112.48	119.84
1	Q	308	ARG	C-N-CA	-5.88	112.48	119.84
1	U	308	ARG	CA-C-N	-5.88	112.48	119.84
1	U	308	ARG	C-N-CA	-5.88	112.48	119.84
1	Y	308	ARG	CA-C-N	-5.88	112.48	119.84

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	Y	308	ARG	C-N-CA	-5.88	112.48	119.84
1	c	308	ARG	CA-C-N	-5.88	112.48	119.84
1	c	308	ARG	C-N-CA	-5.88	112.48	119.84
1	A	258	LEU	CA-C-N	-5.88	113.90	122.19
1	A	258	LEU	C-N-CA	-5.88	113.90	122.19
1	E	258	LEU	CA-C-N	-5.88	113.90	122.19
1	E	258	LEU	C-N-CA	-5.88	113.90	122.19
1	I	258	LEU	CA-C-N	-5.88	113.90	122.19
1	I	258	LEU	C-N-CA	-5.88	113.90	122.19
1	M	258	LEU	CA-C-N	-5.88	113.90	122.19
1	M	258	LEU	C-N-CA	-5.88	113.90	122.19
1	Q	258	LEU	CA-C-N	-5.88	113.90	122.19
1	Q	258	LEU	C-N-CA	-5.88	113.90	122.19
1	U	258	LEU	CA-C-N	-5.88	113.90	122.19
1	U	258	LEU	C-N-CA	-5.88	113.90	122.19
1	Y	258	LEU	CA-C-N	-5.88	113.90	122.19
1	Y	258	LEU	C-N-CA	-5.88	113.90	122.19
1	c	258	LEU	CA-C-N	-5.88	113.90	122.19
1	c	258	LEU	C-N-CA	-5.88	113.90	122.19
1	C	308	ARG	CA-C-N	-5.86	112.52	119.84
1	C	308	ARG	C-N-CA	-5.86	112.52	119.84
1	G	308	ARG	CA-C-N	-5.86	112.52	119.84
1	G	308	ARG	C-N-CA	-5.86	112.52	119.84
1	K	308	ARG	CA-C-N	-5.86	112.52	119.84
1	K	308	ARG	C-N-CA	-5.86	112.52	119.84
1	O	308	ARG	CA-C-N	-5.86	112.52	119.84
1	O	308	ARG	C-N-CA	-5.86	112.52	119.84
1	S	308	ARG	CA-C-N	-5.86	112.52	119.84
1	S	308	ARG	C-N-CA	-5.86	112.52	119.84
1	W	308	ARG	CA-C-N	-5.86	112.52	119.84
1	W	308	ARG	C-N-CA	-5.86	112.52	119.84
1	a	308	ARG	CA-C-N	-5.86	112.52	119.84
1	a	308	ARG	C-N-CA	-5.86	112.52	119.84
1	e	308	ARG	CA-C-N	-5.86	112.52	119.84
1	e	308	ARG	C-N-CA	-5.86	112.52	119.84
1	C	535	TYR	N-CA-C	-5.85	105.04	111.82
1	G	535	TYR	N-CA-C	-5.85	105.04	111.82
1	K	535	TYR	N-CA-C	-5.85	105.04	111.82
1	O	535	TYR	N-CA-C	-5.85	105.04	111.82
1	S	535	TYR	N-CA-C	-5.85	105.04	111.82
1	W	535	TYR	N-CA-C	-5.85	105.04	111.82
1	a	535	TYR	N-CA-C	-5.85	105.04	111.82

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	e	535	TYR	N-CA-C	-5.85	105.04	111.82
1	A	535	TYR	N-CA-C	-5.84	105.04	111.82
1	E	535	TYR	N-CA-C	-5.84	105.04	111.82
1	I	535	TYR	N-CA-C	-5.84	105.04	111.82
1	M	535	TYR	N-CA-C	-5.84	105.04	111.82
1	Q	535	TYR	N-CA-C	-5.84	105.04	111.82
1	U	535	TYR	N-CA-C	-5.84	105.04	111.82
1	Y	535	TYR	N-CA-C	-5.84	105.04	111.82
1	c	535	TYR	N-CA-C	-5.84	105.04	111.82
1	A	495	ARG	N-CA-C	-5.79	104.67	110.97
1	E	495	ARG	N-CA-C	-5.79	104.67	110.97
1	I	495	ARG	N-CA-C	-5.79	104.67	110.97
1	M	495	ARG	N-CA-C	-5.79	104.67	110.97
1	Q	495	ARG	N-CA-C	-5.79	104.67	110.97
1	U	495	ARG	N-CA-C	-5.79	104.67	110.97
1	Y	495	ARG	N-CA-C	-5.79	104.67	110.97
1	c	495	ARG	N-CA-C	-5.79	104.67	110.97
1	C	495	ARG	N-CA-C	-5.78	104.67	110.97
1	G	495	ARG	N-CA-C	-5.78	104.67	110.97
1	K	495	ARG	N-CA-C	-5.78	104.67	110.97
1	O	495	ARG	N-CA-C	-5.78	104.67	110.97
1	S	495	ARG	N-CA-C	-5.78	104.67	110.97
1	W	495	ARG	N-CA-C	-5.78	104.67	110.97
1	a	495	ARG	N-CA-C	-5.78	104.67	110.97
1	e	495	ARG	N-CA-C	-5.78	104.67	110.97
1	K	525	LYS	CA-C-N	-5.75	113.09	119.19
1	K	525	LYS	C-N-CA	-5.75	113.09	119.19
1	O	525	LYS	CA-C-N	-5.75	113.09	119.19
1	O	525	LYS	C-N-CA	-5.75	113.09	119.19
1	S	525	LYS	CA-C-N	-5.75	113.09	119.19
1	S	525	LYS	C-N-CA	-5.75	113.09	119.19
1	W	525	LYS	CA-C-N	-5.75	113.09	119.19
1	W	525	LYS	C-N-CA	-5.75	113.09	119.19
1	a	525	LYS	CA-C-N	-5.75	113.09	119.19
1	a	525	LYS	C-N-CA	-5.75	113.09	119.19
1	A	525	LYS	CA-C-N	-5.73	113.12	119.19
1	A	525	LYS	C-N-CA	-5.73	113.12	119.19
1	E	525	LYS	CA-C-N	-5.73	113.12	119.19
1	E	525	LYS	C-N-CA	-5.73	113.12	119.19
1	I	525	LYS	CA-C-N	-5.73	113.12	119.19
1	I	525	LYS	C-N-CA	-5.73	113.12	119.19
1	M	525	LYS	CA-C-N	-5.73	113.12	119.19

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	M	525	LYS	C-N-CA	-5.73	113.12	119.19
1	Q	525	LYS	CA-C-N	-5.73	113.12	119.19
1	Q	525	LYS	C-N-CA	-5.73	113.12	119.19
1	U	525	LYS	CA-C-N	-5.73	113.12	119.19
1	U	525	LYS	C-N-CA	-5.73	113.12	119.19
1	Y	525	LYS	CA-C-N	-5.73	113.12	119.19
1	Y	525	LYS	C-N-CA	-5.73	113.12	119.19
1	c	525	LYS	CA-C-N	-5.73	113.12	119.19
1	c	525	LYS	C-N-CA	-5.73	113.12	119.19
1	C	525	LYS	CA-C-N	-5.72	113.12	119.19
1	C	525	LYS	C-N-CA	-5.72	113.12	119.19
1	G	525	LYS	CA-C-N	-5.72	113.12	119.19
1	G	525	LYS	C-N-CA	-5.72	113.12	119.19
1	e	525	LYS	CA-C-N	-5.72	113.12	119.19
1	e	525	LYS	C-N-CA	-5.72	113.12	119.19
2	D	83	GLY	CA-C-N	-5.72	113.73	119.56
2	D	83	GLY	C-N-CA	-5.72	113.73	119.56
2	H	83	GLY	CA-C-N	-5.72	113.73	119.56
2	H	83	GLY	C-N-CA	-5.72	113.73	119.56
2	L	83	GLY	CA-C-N	-5.72	113.73	119.56
2	L	83	GLY	C-N-CA	-5.72	113.73	119.56
2	P	83	GLY	CA-C-N	-5.72	113.73	119.56
2	P	83	GLY	C-N-CA	-5.72	113.73	119.56
2	T	83	GLY	CA-C-N	-5.72	113.73	119.56
2	T	83	GLY	C-N-CA	-5.72	113.73	119.56
2	X	83	GLY	CA-C-N	-5.72	113.73	119.56
2	X	83	GLY	C-N-CA	-5.72	113.73	119.56
2	b	83	GLY	CA-C-N	-5.72	113.73	119.56
2	b	83	GLY	C-N-CA	-5.72	113.73	119.56
2	f	83	GLY	CA-C-N	-5.72	113.73	119.56
2	f	83	GLY	C-N-CA	-5.72	113.73	119.56
2	B	83	GLY	CA-C-N	-5.70	113.74	119.56
2	B	83	GLY	C-N-CA	-5.70	113.74	119.56
2	F	83	GLY	CA-C-N	-5.70	113.74	119.56
2	F	83	GLY	C-N-CA	-5.70	113.74	119.56
2	J	83	GLY	CA-C-N	-5.70	113.74	119.56
2	J	83	GLY	C-N-CA	-5.70	113.74	119.56
2	N	83	GLY	CA-C-N	-5.70	113.74	119.56
2	N	83	GLY	C-N-CA	-5.70	113.74	119.56
2	R	83	GLY	CA-C-N	-5.70	113.74	119.56
2	R	83	GLY	C-N-CA	-5.70	113.74	119.56
2	V	83	GLY	CA-C-N	-5.70	113.74	119.56

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	V	83	GLY	C-N-CA	-5.70	113.74	119.56
2	Z	83	GLY	CA-C-N	-5.70	113.74	119.56
2	Z	83	GLY	C-N-CA	-5.70	113.74	119.56
2	d	83	GLY	CA-C-N	-5.70	113.74	119.56
2	d	83	GLY	C-N-CA	-5.70	113.74	119.56
1	C	558	TYR	CA-C-O	5.65	128.59	120.51
1	G	558	TYR	CA-C-O	5.65	128.59	120.51
1	K	558	TYR	CA-C-O	5.65	128.59	120.51
1	O	558	TYR	CA-C-O	5.65	128.59	120.51
1	S	558	TYR	CA-C-O	5.65	128.59	120.51
1	W	558	TYR	CA-C-O	5.65	128.59	120.51
1	a	558	TYR	CA-C-O	5.65	128.59	120.51
1	e	558	TYR	CA-C-O	5.65	128.59	120.51
1	A	558	TYR	CA-C-O	5.64	128.57	120.51
1	E	558	TYR	CA-C-O	5.64	128.57	120.51
1	I	558	TYR	CA-C-O	5.64	128.57	120.51
1	M	558	TYR	CA-C-O	5.64	128.57	120.51
1	Q	558	TYR	CA-C-O	5.64	128.57	120.51
1	U	558	TYR	CA-C-O	5.64	128.57	120.51
1	Y	558	TYR	CA-C-O	5.64	128.57	120.51
1	c	558	TYR	CA-C-O	5.64	128.57	120.51
1	A	90	SER	CA-C-N	-5.63	112.80	119.05
1	A	90	SER	C-N-CA	-5.63	112.80	119.05
1	E	90	SER	CA-C-N	-5.63	112.80	119.05
1	E	90	SER	C-N-CA	-5.63	112.80	119.05
1	I	90	SER	CA-C-N	-5.63	112.80	119.05
1	I	90	SER	C-N-CA	-5.63	112.80	119.05
1	M	90	SER	CA-C-N	-5.63	112.80	119.05
1	M	90	SER	C-N-CA	-5.63	112.80	119.05
1	Q	90	SER	CA-C-N	-5.63	112.80	119.05
1	Q	90	SER	C-N-CA	-5.63	112.80	119.05
1	U	90	SER	CA-C-N	-5.63	112.80	119.05
1	U	90	SER	C-N-CA	-5.63	112.80	119.05
1	Y	90	SER	CA-C-N	-5.63	112.80	119.05
1	Y	90	SER	C-N-CA	-5.63	112.80	119.05
1	c	90	SER	CA-C-N	-5.63	112.80	119.05
1	c	90	SER	C-N-CA	-5.63	112.80	119.05
1	C	376	PRO	CA-C-N	-5.61	112.82	119.05
1	C	376	PRO	C-N-CA	-5.61	112.82	119.05
1	G	376	PRO	CA-C-N	-5.61	112.82	119.05
1	G	376	PRO	C-N-CA	-5.61	112.82	119.05
1	K	376	PRO	CA-C-N	-5.61	112.82	119.05

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	K	376	PRO	C-N-CA	-5.61	112.82	119.05
1	O	376	PRO	CA-C-N	-5.61	112.82	119.05
1	O	376	PRO	C-N-CA	-5.61	112.82	119.05
1	S	376	PRO	CA-C-N	-5.61	112.82	119.05
1	S	376	PRO	C-N-CA	-5.61	112.82	119.05
1	W	376	PRO	CA-C-N	-5.61	112.82	119.05
1	W	376	PRO	C-N-CA	-5.61	112.82	119.05
1	a	376	PRO	CA-C-N	-5.61	112.82	119.05
1	a	376	PRO	C-N-CA	-5.61	112.82	119.05
1	e	376	PRO	CA-C-N	-5.61	112.82	119.05
1	e	376	PRO	C-N-CA	-5.61	112.82	119.05
1	A	436	GLU	N-CA-C	-5.60	100.89	109.41
1	E	436	GLU	N-CA-C	-5.60	100.89	109.41
1	I	436	GLU	N-CA-C	-5.60	100.89	109.41
1	M	436	GLU	N-CA-C	-5.60	100.89	109.41
1	Q	436	GLU	N-CA-C	-5.60	100.89	109.41
1	U	436	GLU	N-CA-C	-5.60	100.89	109.41
1	Y	436	GLU	N-CA-C	-5.60	100.89	109.41
1	c	436	GLU	N-CA-C	-5.60	100.89	109.41
1	C	90	SER	CA-C-N	-5.60	112.83	119.05
1	C	90	SER	C-N-CA	-5.60	112.83	119.05
1	G	90	SER	CA-C-N	-5.60	112.83	119.05
1	G	90	SER	C-N-CA	-5.60	112.83	119.05
1	K	90	SER	CA-C-N	-5.60	112.83	119.05
1	K	90	SER	C-N-CA	-5.60	112.83	119.05
1	O	90	SER	CA-C-N	-5.60	112.83	119.05
1	O	90	SER	C-N-CA	-5.60	112.83	119.05
1	S	90	SER	CA-C-N	-5.60	112.83	119.05
1	S	90	SER	C-N-CA	-5.60	112.83	119.05
1	W	90	SER	CA-C-N	-5.60	112.83	119.05
1	W	90	SER	C-N-CA	-5.60	112.83	119.05
1	a	90	SER	CA-C-N	-5.60	112.83	119.05
1	a	90	SER	C-N-CA	-5.60	112.83	119.05
1	e	90	SER	CA-C-N	-5.60	112.83	119.05
1	e	90	SER	C-N-CA	-5.60	112.83	119.05
1	C	436	GLU	N-CA-C	-5.60	100.90	109.41
1	G	436	GLU	N-CA-C	-5.60	100.90	109.41
1	K	436	GLU	N-CA-C	-5.60	100.90	109.41
1	O	436	GLU	N-CA-C	-5.60	100.90	109.41
1	S	436	GLU	N-CA-C	-5.60	100.90	109.41
1	W	436	GLU	N-CA-C	-5.60	100.90	109.41
1	a	436	GLU	N-CA-C	-5.60	100.90	109.41

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	e	436	GLU	N-CA-C	-5.60	100.90	109.41
1	A	376	PRO	CA-C-N	-5.59	112.85	119.05
1	A	376	PRO	C-N-CA	-5.59	112.85	119.05
1	E	376	PRO	CA-C-N	-5.59	112.85	119.05
1	E	376	PRO	C-N-CA	-5.59	112.85	119.05
1	I	376	PRO	CA-C-N	-5.59	112.85	119.05
1	I	376	PRO	C-N-CA	-5.59	112.85	119.05
1	M	376	PRO	CA-C-N	-5.59	112.85	119.05
1	M	376	PRO	C-N-CA	-5.59	112.85	119.05
1	Q	376	PRO	CA-C-N	-5.59	112.85	119.05
1	Q	376	PRO	C-N-CA	-5.59	112.85	119.05
1	U	376	PRO	CA-C-N	-5.59	112.85	119.05
1	U	376	PRO	C-N-CA	-5.59	112.85	119.05
1	Y	376	PRO	CA-C-N	-5.59	112.85	119.05
1	Y	376	PRO	C-N-CA	-5.59	112.85	119.05
1	c	376	PRO	CA-C-N	-5.59	112.85	119.05
1	c	376	PRO	C-N-CA	-5.59	112.85	119.05
1	C	546	LEU	CA-C-N	-5.57	113.94	119.56
1	C	546	LEU	C-N-CA	-5.57	113.94	119.56
1	G	546	LEU	CA-C-N	-5.57	113.94	119.56
1	G	546	LEU	C-N-CA	-5.57	113.94	119.56
1	K	546	LEU	CA-C-N	-5.57	113.94	119.56
1	K	546	LEU	C-N-CA	-5.57	113.94	119.56
1	O	546	LEU	CA-C-N	-5.57	113.94	119.56
1	O	546	LEU	C-N-CA	-5.57	113.94	119.56
1	S	546	LEU	CA-C-N	-5.57	113.94	119.56
1	S	546	LEU	C-N-CA	-5.57	113.94	119.56
1	W	546	LEU	CA-C-N	-5.57	113.94	119.56
1	W	546	LEU	C-N-CA	-5.57	113.94	119.56
1	a	546	LEU	CA-C-N	-5.57	113.94	119.56
1	a	546	LEU	C-N-CA	-5.57	113.94	119.56
1	e	546	LEU	CA-C-N	-5.57	113.94	119.56
1	e	546	LEU	C-N-CA	-5.57	113.94	119.56
1	C	50	MET	N-CA-C	-5.56	105.22	111.28
1	G	50	MET	N-CA-C	-5.56	105.22	111.28
1	K	50	MET	N-CA-C	-5.56	105.22	111.28
1	O	50	MET	N-CA-C	-5.56	105.22	111.28
1	S	50	MET	N-CA-C	-5.56	105.22	111.28
1	W	50	MET	N-CA-C	-5.56	105.22	111.28
1	a	50	MET	N-CA-C	-5.56	105.22	111.28
1	e	50	MET	N-CA-C	-5.56	105.22	111.28
1	A	546	LEU	CA-C-N	-5.56	113.95	119.56

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	546	LEU	C-N-CA	-5.56	113.95	119.56
1	E	546	LEU	CA-C-N	-5.56	113.95	119.56
1	E	546	LEU	C-N-CA	-5.56	113.95	119.56
1	I	546	LEU	CA-C-N	-5.56	113.95	119.56
1	I	546	LEU	C-N-CA	-5.56	113.95	119.56
1	M	546	LEU	CA-C-N	-5.56	113.95	119.56
1	M	546	LEU	C-N-CA	-5.56	113.95	119.56
1	Q	546	LEU	CA-C-N	-5.56	113.95	119.56
1	Q	546	LEU	C-N-CA	-5.56	113.95	119.56
1	U	546	LEU	CA-C-N	-5.56	113.95	119.56
1	U	546	LEU	C-N-CA	-5.56	113.95	119.56
1	Y	546	LEU	CA-C-N	-5.56	113.95	119.56
1	Y	546	LEU	C-N-CA	-5.56	113.95	119.56
1	c	546	LEU	CA-C-N	-5.56	113.95	119.56
1	c	546	LEU	C-N-CA	-5.56	113.95	119.56
1	A	50	MET	N-CA-C	-5.55	105.23	111.28
1	E	50	MET	N-CA-C	-5.55	105.23	111.28
1	I	50	MET	N-CA-C	-5.55	105.23	111.28
1	M	50	MET	N-CA-C	-5.55	105.23	111.28
1	Q	50	MET	N-CA-C	-5.55	105.23	111.28
1	U	50	MET	N-CA-C	-5.55	105.23	111.28
1	Y	50	MET	N-CA-C	-5.55	105.23	111.28
1	c	50	MET	N-CA-C	-5.55	105.23	111.28
1	A	293	THR	CA-C-N	5.50	126.71	119.84
1	A	293	THR	C-N-CA	5.50	126.71	119.84
1	E	293	THR	CA-C-N	5.50	126.71	119.84
1	E	293	THR	C-N-CA	5.50	126.71	119.84
1	I	293	THR	CA-C-N	5.50	126.71	119.84
1	I	293	THR	C-N-CA	5.50	126.71	119.84
1	M	293	THR	CA-C-N	5.50	126.71	119.84
1	M	293	THR	C-N-CA	5.50	126.71	119.84
1	Q	293	THR	CA-C-N	5.50	126.71	119.84
1	Q	293	THR	C-N-CA	5.50	126.71	119.84
1	U	293	THR	CA-C-N	5.50	126.71	119.84
1	U	293	THR	C-N-CA	5.50	126.71	119.84
1	Y	293	THR	CA-C-N	5.50	126.71	119.84
1	Y	293	THR	C-N-CA	5.50	126.71	119.84
1	c	293	THR	CA-C-N	5.50	126.71	119.84
1	c	293	THR	C-N-CA	5.50	126.71	119.84
1	A	224	ILE	N-CA-C	-5.49	105.02	110.62
1	E	224	ILE	N-CA-C	-5.49	105.02	110.62
1	I	224	ILE	N-CA-C	-5.49	105.02	110.62

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	M	224	ILE	N-CA-C	-5.49	105.02	110.62
1	Q	224	ILE	N-CA-C	-5.49	105.02	110.62
1	U	224	ILE	N-CA-C	-5.49	105.02	110.62
1	Y	224	ILE	N-CA-C	-5.49	105.02	110.62
1	c	224	ILE	N-CA-C	-5.49	105.02	110.62
1	A	301	LEU	CA-C-N	-5.49	113.31	120.44
1	A	301	LEU	C-N-CA	-5.49	113.31	120.44
1	E	301	LEU	CA-C-N	-5.49	113.31	120.44
1	E	301	LEU	C-N-CA	-5.49	113.31	120.44
1	I	301	LEU	CA-C-N	-5.49	113.31	120.44
1	I	301	LEU	C-N-CA	-5.49	113.31	120.44
1	M	301	LEU	CA-C-N	-5.49	113.31	120.44
1	M	301	LEU	C-N-CA	-5.49	113.31	120.44
1	Q	301	LEU	CA-C-N	-5.49	113.31	120.44
1	Q	301	LEU	C-N-CA	-5.49	113.31	120.44
1	U	301	LEU	CA-C-N	-5.49	113.31	120.44
1	U	301	LEU	C-N-CA	-5.49	113.31	120.44
1	Y	301	LEU	CA-C-N	-5.49	113.31	120.44
1	Y	301	LEU	C-N-CA	-5.49	113.31	120.44
1	c	301	LEU	CA-C-N	-5.49	113.31	120.44
1	c	301	LEU	C-N-CA	-5.49	113.31	120.44
1	C	301	LEU	CA-C-N	-5.49	113.31	120.44
1	C	301	LEU	C-N-CA	-5.49	113.31	120.44
1	G	301	LEU	CA-C-N	-5.49	113.31	120.44
1	G	301	LEU	C-N-CA	-5.49	113.31	120.44
1	K	301	LEU	CA-C-N	-5.49	113.31	120.44
1	K	301	LEU	C-N-CA	-5.49	113.31	120.44
1	O	301	LEU	CA-C-N	-5.49	113.31	120.44
1	O	301	LEU	C-N-CA	-5.49	113.31	120.44
1	S	301	LEU	CA-C-N	-5.49	113.31	120.44
1	S	301	LEU	C-N-CA	-5.49	113.31	120.44
1	W	301	LEU	CA-C-N	-5.49	113.31	120.44
1	W	301	LEU	C-N-CA	-5.49	113.31	120.44
1	a	301	LEU	CA-C-N	-5.49	113.31	120.44
1	a	301	LEU	C-N-CA	-5.49	113.31	120.44
1	e	301	LEU	CA-C-N	-5.49	113.31	120.44
1	e	301	LEU	C-N-CA	-5.49	113.31	120.44
1	C	224	ILE	N-CA-C	-5.49	105.03	110.62
1	G	224	ILE	N-CA-C	-5.49	105.03	110.62
1	K	224	ILE	N-CA-C	-5.49	105.03	110.62
1	O	224	ILE	N-CA-C	-5.49	105.03	110.62
1	S	224	ILE	N-CA-C	-5.49	105.03	110.62

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	W	224	ILE	N-CA-C	-5.49	105.03	110.62
1	a	224	ILE	N-CA-C	-5.49	105.03	110.62
1	e	224	ILE	N-CA-C	-5.49	105.03	110.62
1	C	293	THR	CA-C-N	5.48	126.69	119.84
1	C	293	THR	C-N-CA	5.48	126.69	119.84
1	G	293	THR	CA-C-N	5.48	126.69	119.84
1	G	293	THR	C-N-CA	5.48	126.69	119.84
1	K	293	THR	CA-C-N	5.48	126.69	119.84
1	K	293	THR	C-N-CA	5.48	126.69	119.84
1	O	293	THR	CA-C-N	5.48	126.69	119.84
1	O	293	THR	C-N-CA	5.48	126.69	119.84
1	S	293	THR	CA-C-N	5.48	126.69	119.84
1	S	293	THR	C-N-CA	5.48	126.69	119.84
1	W	293	THR	CA-C-N	5.48	126.69	119.84
1	W	293	THR	C-N-CA	5.48	126.69	119.84
1	a	293	THR	CA-C-N	5.48	126.69	119.84
1	a	293	THR	C-N-CA	5.48	126.69	119.84
1	e	293	THR	CA-C-N	5.48	126.69	119.84
1	e	293	THR	C-N-CA	5.48	126.69	119.84
1	C	558	TYR	CA-C-N	5.48	129.04	120.82
1	C	558	TYR	C-N-CA	5.48	129.04	120.82
1	G	558	TYR	CA-C-N	5.48	129.04	120.82
1	G	558	TYR	C-N-CA	5.48	129.04	120.82
1	K	558	TYR	CA-C-N	5.48	129.04	120.82
1	K	558	TYR	C-N-CA	5.48	129.04	120.82
1	O	558	TYR	CA-C-N	5.48	129.04	120.82
1	O	558	TYR	C-N-CA	5.48	129.04	120.82
1	S	558	TYR	CA-C-N	5.48	129.04	120.82
1	S	558	TYR	C-N-CA	5.48	129.04	120.82
1	W	558	TYR	CA-C-N	5.48	129.04	120.82
1	W	558	TYR	C-N-CA	5.48	129.04	120.82
1	a	558	TYR	CA-C-N	5.48	129.04	120.82
1	a	558	TYR	C-N-CA	5.48	129.04	120.82
1	e	558	TYR	CA-C-N	5.48	129.04	120.82
1	e	558	TYR	C-N-CA	5.48	129.04	120.82
1	A	235	LYS	CA-C-N	-5.47	112.97	119.05
1	A	235	LYS	C-N-CA	-5.47	112.97	119.05
1	A	558	TYR	CA-C-N	5.47	129.03	120.82
1	A	558	TYR	C-N-CA	5.47	129.03	120.82
1	E	235	LYS	CA-C-N	-5.47	112.97	119.05
1	E	235	LYS	C-N-CA	-5.47	112.97	119.05
1	E	558	TYR	CA-C-N	5.47	129.03	120.82

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	E	558	TYR	C-N-CA	5.47	129.03	120.82
1	I	235	LYS	CA-C-N	-5.47	112.97	119.05
1	I	235	LYS	C-N-CA	-5.47	112.97	119.05
1	I	558	TYR	CA-C-N	5.47	129.03	120.82
1	I	558	TYR	C-N-CA	5.47	129.03	120.82
1	M	235	LYS	CA-C-N	-5.47	112.97	119.05
1	M	235	LYS	C-N-CA	-5.47	112.97	119.05
1	M	558	TYR	CA-C-N	5.47	129.03	120.82
1	M	558	TYR	C-N-CA	5.47	129.03	120.82
1	Q	235	LYS	CA-C-N	-5.47	112.97	119.05
1	Q	235	LYS	C-N-CA	-5.47	112.97	119.05
1	Q	558	TYR	CA-C-N	5.47	129.03	120.82
1	Q	558	TYR	C-N-CA	5.47	129.03	120.82
1	U	235	LYS	CA-C-N	-5.47	112.97	119.05
1	U	235	LYS	C-N-CA	-5.47	112.97	119.05
1	U	558	TYR	CA-C-N	5.47	129.03	120.82
1	U	558	TYR	C-N-CA	5.47	129.03	120.82
1	Y	235	LYS	CA-C-N	-5.47	112.97	119.05
1	Y	235	LYS	C-N-CA	-5.47	112.97	119.05
1	Y	558	TYR	CA-C-N	5.47	129.03	120.82
1	Y	558	TYR	C-N-CA	5.47	129.03	120.82
1	c	235	LYS	CA-C-N	-5.47	112.97	119.05
1	c	235	LYS	C-N-CA	-5.47	112.97	119.05
1	c	558	TYR	CA-C-N	5.47	129.03	120.82
1	c	558	TYR	C-N-CA	5.47	129.03	120.82
1	A	438	ALA	N-CA-C	-5.46	106.11	112.89
1	E	438	ALA	N-CA-C	-5.46	106.11	112.89
1	I	438	ALA	N-CA-C	-5.46	106.11	112.89
1	M	438	ALA	N-CA-C	-5.46	106.11	112.89
1	Q	438	ALA	N-CA-C	-5.46	106.11	112.89
1	U	438	ALA	N-CA-C	-5.46	106.11	112.89
1	Y	438	ALA	N-CA-C	-5.46	106.11	112.89
1	c	438	ALA	N-CA-C	-5.46	106.11	112.89
1	C	235	LYS	CA-C-N	-5.45	113.00	119.05
1	C	235	LYS	C-N-CA	-5.45	113.00	119.05
1	G	235	LYS	CA-C-N	-5.45	113.00	119.05
1	G	235	LYS	C-N-CA	-5.45	113.00	119.05
1	K	235	LYS	CA-C-N	-5.45	113.00	119.05
1	K	235	LYS	C-N-CA	-5.45	113.00	119.05
1	O	235	LYS	CA-C-N	-5.45	113.00	119.05
1	O	235	LYS	C-N-CA	-5.45	113.00	119.05
1	S	235	LYS	CA-C-N	-5.45	113.00	119.05

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	S	235	LYS	C-N-CA	-5.45	113.00	119.05
1	W	235	LYS	CA-C-N	-5.45	113.00	119.05
1	W	235	LYS	C-N-CA	-5.45	113.00	119.05
1	a	235	LYS	CA-C-N	-5.45	113.00	119.05
1	a	235	LYS	C-N-CA	-5.45	113.00	119.05
1	e	235	LYS	CA-C-N	-5.45	113.00	119.05
1	e	235	LYS	C-N-CA	-5.45	113.00	119.05
1	A	188	SER	CA-C-N	-5.45	113.03	119.84
1	A	188	SER	C-N-CA	-5.45	113.03	119.84
1	E	188	SER	CA-C-N	-5.45	113.03	119.84
1	E	188	SER	C-N-CA	-5.45	113.03	119.84
1	I	188	SER	CA-C-N	-5.45	113.03	119.84
1	I	188	SER	C-N-CA	-5.45	113.03	119.84
1	M	188	SER	CA-C-N	-5.45	113.03	119.84
1	M	188	SER	C-N-CA	-5.45	113.03	119.84
1	Q	188	SER	CA-C-N	-5.45	113.03	119.84
1	Q	188	SER	C-N-CA	-5.45	113.03	119.84
1	U	188	SER	CA-C-N	-5.45	113.03	119.84
1	U	188	SER	C-N-CA	-5.45	113.03	119.84
1	Y	188	SER	CA-C-N	-5.45	113.03	119.84
1	Y	188	SER	C-N-CA	-5.45	113.03	119.84
1	c	188	SER	CA-C-N	-5.45	113.03	119.84
1	c	188	SER	C-N-CA	-5.45	113.03	119.84
1	C	188	SER	CA-C-N	-5.45	113.03	119.84
1	C	188	SER	C-N-CA	-5.45	113.03	119.84
1	G	188	SER	CA-C-N	-5.45	113.03	119.84
1	G	188	SER	C-N-CA	-5.45	113.03	119.84
1	K	188	SER	CA-C-N	-5.45	113.03	119.84
1	K	188	SER	C-N-CA	-5.45	113.03	119.84
1	O	188	SER	CA-C-N	-5.45	113.03	119.84
1	O	188	SER	C-N-CA	-5.45	113.03	119.84
1	S	188	SER	CA-C-N	-5.45	113.03	119.84
1	S	188	SER	C-N-CA	-5.45	113.03	119.84
1	W	188	SER	CA-C-N	-5.45	113.03	119.84
1	W	188	SER	C-N-CA	-5.45	113.03	119.84
1	a	188	SER	CA-C-N	-5.45	113.03	119.84
1	a	188	SER	C-N-CA	-5.45	113.03	119.84
1	e	188	SER	CA-C-N	-5.45	113.03	119.84
1	e	188	SER	C-N-CA	-5.45	113.03	119.84
1	C	438	ALA	N-CA-C	-5.44	106.15	112.89
1	G	438	ALA	N-CA-C	-5.44	106.15	112.89
1	K	438	ALA	N-CA-C	-5.44	106.15	112.89

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	O	438	ALA	N-CA-C	-5.44	106.15	112.89
1	S	438	ALA	N-CA-C	-5.44	106.15	112.89
1	W	438	ALA	N-CA-C	-5.44	106.15	112.89
1	a	438	ALA	N-CA-C	-5.44	106.15	112.89
1	e	438	ALA	N-CA-C	-5.44	106.15	112.89
1	A	436	GLU	CA-C-N	-5.43	114.01	122.05
1	A	436	GLU	C-N-CA	-5.43	114.01	122.05
1	E	436	GLU	CA-C-N	-5.43	114.01	122.05
1	E	436	GLU	C-N-CA	-5.43	114.01	122.05
1	I	436	GLU	CA-C-N	-5.43	114.01	122.05
1	I	436	GLU	C-N-CA	-5.43	114.01	122.05
1	M	436	GLU	CA-C-N	-5.43	114.01	122.05
1	M	436	GLU	C-N-CA	-5.43	114.01	122.05
1	Q	436	GLU	CA-C-N	-5.43	114.01	122.05
1	Q	436	GLU	C-N-CA	-5.43	114.01	122.05
1	U	436	GLU	CA-C-N	-5.43	114.01	122.05
1	U	436	GLU	C-N-CA	-5.43	114.01	122.05
1	Y	436	GLU	CA-C-N	-5.43	114.01	122.05
1	Y	436	GLU	C-N-CA	-5.43	114.01	122.05
1	c	436	GLU	CA-C-N	-5.43	114.01	122.05
1	c	436	GLU	C-N-CA	-5.43	114.01	122.05
1	C	436	GLU	CA-C-N	-5.43	114.01	122.05
1	C	436	GLU	C-N-CA	-5.43	114.01	122.05
1	G	436	GLU	CA-C-N	-5.43	114.01	122.05
1	G	436	GLU	C-N-CA	-5.43	114.01	122.05
1	K	436	GLU	CA-C-N	-5.43	114.01	122.05
1	K	436	GLU	C-N-CA	-5.43	114.01	122.05
1	O	436	GLU	CA-C-N	-5.43	114.01	122.05
1	O	436	GLU	C-N-CA	-5.43	114.01	122.05
1	S	436	GLU	CA-C-N	-5.43	114.01	122.05
1	S	436	GLU	C-N-CA	-5.43	114.01	122.05
1	W	436	GLU	CA-C-N	-5.43	114.01	122.05
1	W	436	GLU	C-N-CA	-5.43	114.01	122.05
1	a	436	GLU	CA-C-N	-5.43	114.01	122.05
1	a	436	GLU	C-N-CA	-5.43	114.01	122.05
1	e	436	GLU	CA-C-N	-5.43	114.01	122.05
1	e	436	GLU	C-N-CA	-5.43	114.01	122.05
1	A	302	LEU	N-CA-C	5.39	116.84	111.07
1	E	302	LEU	N-CA-C	5.39	116.84	111.07
1	I	302	LEU	N-CA-C	5.39	116.84	111.07
1	M	302	LEU	N-CA-C	5.39	116.84	111.07
1	Q	302	LEU	N-CA-C	5.39	116.84	111.07

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	U	302	LEU	N-CA-C	5.39	116.84	111.07
1	Y	302	LEU	N-CA-C	5.39	116.84	111.07
1	c	302	LEU	N-CA-C	5.39	116.84	111.07
1	C	302	LEU	N-CA-C	5.38	116.82	111.07
1	G	302	LEU	N-CA-C	5.38	116.82	111.07
1	K	302	LEU	N-CA-C	5.38	116.82	111.07
1	O	302	LEU	N-CA-C	5.38	116.82	111.07
1	S	302	LEU	N-CA-C	5.38	116.82	111.07
1	W	302	LEU	N-CA-C	5.38	116.82	111.07
1	a	302	LEU	N-CA-C	5.38	116.82	111.07
1	e	302	LEU	N-CA-C	5.38	116.82	111.07
1	C	406	HIS	N-CA-C	-5.36	105.44	111.28
1	G	406	HIS	N-CA-C	-5.36	105.44	111.28
1	K	406	HIS	N-CA-C	-5.36	105.44	111.28
1	O	406	HIS	N-CA-C	-5.36	105.44	111.28
1	S	406	HIS	N-CA-C	-5.36	105.44	111.28
1	W	406	HIS	N-CA-C	-5.36	105.44	111.28
1	a	406	HIS	N-CA-C	-5.36	105.44	111.28
1	e	406	HIS	N-CA-C	-5.36	105.44	111.28
1	A	381	ILE	CA-C-N	5.33	125.62	119.92
1	A	381	ILE	C-N-CA	5.33	125.62	119.92
1	E	381	ILE	CA-C-N	5.33	125.62	119.92
1	E	381	ILE	C-N-CA	5.33	125.62	119.92
1	I	381	ILE	CA-C-N	5.33	125.62	119.92
1	I	381	ILE	C-N-CA	5.33	125.62	119.92
1	M	381	ILE	CA-C-N	5.33	125.62	119.92
1	M	381	ILE	C-N-CA	5.33	125.62	119.92
1	Q	381	ILE	CA-C-N	5.33	125.62	119.92
1	Q	381	ILE	C-N-CA	5.33	125.62	119.92
1	U	381	ILE	CA-C-N	5.33	125.62	119.92
1	U	381	ILE	C-N-CA	5.33	125.62	119.92
1	Y	381	ILE	CA-C-N	5.33	125.62	119.92
1	Y	381	ILE	C-N-CA	5.33	125.62	119.92
1	c	381	ILE	CA-C-N	5.33	125.62	119.92
1	c	381	ILE	C-N-CA	5.33	125.62	119.92
1	A	406	HIS	N-CA-C	-5.32	105.48	111.28
1	E	406	HIS	N-CA-C	-5.32	105.48	111.28
1	I	406	HIS	N-CA-C	-5.32	105.48	111.28
1	M	406	HIS	N-CA-C	-5.32	105.48	111.28
1	Q	406	HIS	N-CA-C	-5.32	105.48	111.28
1	U	406	HIS	N-CA-C	-5.32	105.48	111.28
1	Y	406	HIS	N-CA-C	-5.32	105.48	111.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	c	406	HIS	N-CA-C	-5.32	105.48	111.28
1	K	297	VAL	N-CA-C	-5.32	105.35	110.72
1	O	297	VAL	N-CA-C	-5.32	105.35	110.72
1	S	297	VAL	N-CA-C	-5.32	105.35	110.72
1	W	297	VAL	N-CA-C	-5.32	105.35	110.72
1	a	297	VAL	N-CA-C	-5.32	105.35	110.72
1	C	381	ILE	CA-C-N	5.32	125.61	119.92
1	C	381	ILE	C-N-CA	5.32	125.61	119.92
1	K	381	ILE	CA-C-N	5.32	125.61	119.92
1	K	381	ILE	C-N-CA	5.32	125.61	119.92
1	a	381	ILE	CA-C-N	5.32	125.61	119.92
1	a	381	ILE	C-N-CA	5.32	125.61	119.92
1	C	59	LEU	N-CA-C	-5.30	105.59	111.36
1	G	59	LEU	N-CA-C	-5.30	105.59	111.36
1	K	59	LEU	N-CA-C	-5.30	105.59	111.36
1	O	59	LEU	N-CA-C	-5.30	105.59	111.36
1	S	59	LEU	N-CA-C	-5.30	105.59	111.36
1	W	59	LEU	N-CA-C	-5.30	105.59	111.36
1	a	59	LEU	N-CA-C	-5.30	105.59	111.36
1	e	59	LEU	N-CA-C	-5.30	105.59	111.36
1	A	297	VAL	N-CA-C	-5.29	105.38	110.72
1	C	300	LEU	N-CA-C	-5.29	105.59	111.36
1	E	297	VAL	N-CA-C	-5.29	105.38	110.72
1	G	300	LEU	N-CA-C	-5.29	105.59	111.36
1	I	297	VAL	N-CA-C	-5.29	105.38	110.72
1	K	300	LEU	N-CA-C	-5.29	105.59	111.36
1	M	297	VAL	N-CA-C	-5.29	105.38	110.72
1	O	300	LEU	N-CA-C	-5.29	105.59	111.36
1	Q	297	VAL	N-CA-C	-5.29	105.38	110.72
1	S	300	LEU	N-CA-C	-5.29	105.59	111.36
1	U	297	VAL	N-CA-C	-5.29	105.38	110.72
1	W	300	LEU	N-CA-C	-5.29	105.59	111.36
1	Y	297	VAL	N-CA-C	-5.29	105.38	110.72
1	a	300	LEU	N-CA-C	-5.29	105.59	111.36
1	c	297	VAL	N-CA-C	-5.29	105.38	110.72
1	e	300	LEU	N-CA-C	-5.29	105.59	111.36
1	G	381	ILE	CA-C-N	5.29	125.58	119.92
1	G	381	ILE	C-N-CA	5.29	125.58	119.92
1	O	381	ILE	CA-C-N	5.29	125.58	119.92
1	O	381	ILE	C-N-CA	5.29	125.58	119.92
1	S	381	ILE	CA-C-N	5.29	125.58	119.92
1	S	381	ILE	C-N-CA	5.29	125.58	119.92

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	W	381	ILE	CA-C-N	5.29	125.58	119.92
1	W	381	ILE	C-N-CA	5.29	125.58	119.92
1	e	381	ILE	CA-C-N	5.29	125.58	119.92
1	e	381	ILE	C-N-CA	5.29	125.58	119.92
1	A	59	LEU	N-CA-C	-5.29	105.59	111.36
1	E	59	LEU	N-CA-C	-5.29	105.59	111.36
1	I	59	LEU	N-CA-C	-5.29	105.59	111.36
1	M	59	LEU	N-CA-C	-5.29	105.59	111.36
1	Q	59	LEU	N-CA-C	-5.29	105.59	111.36
1	U	59	LEU	N-CA-C	-5.29	105.59	111.36
1	Y	59	LEU	N-CA-C	-5.29	105.59	111.36
1	c	59	LEU	N-CA-C	-5.29	105.59	111.36
1	A	185	ASN	N-CA-C	-5.28	99.55	110.80
1	C	185	ASN	N-CA-C	-5.28	99.55	110.80
1	E	185	ASN	N-CA-C	-5.28	99.55	110.80
1	G	185	ASN	N-CA-C	-5.28	99.55	110.80
1	I	185	ASN	N-CA-C	-5.28	99.55	110.80
1	K	185	ASN	N-CA-C	-5.28	99.55	110.80
1	M	185	ASN	N-CA-C	-5.28	99.55	110.80
1	O	185	ASN	N-CA-C	-5.28	99.55	110.80
1	Q	185	ASN	N-CA-C	-5.28	99.55	110.80
1	S	185	ASN	N-CA-C	-5.28	99.55	110.80
1	U	185	ASN	N-CA-C	-5.28	99.55	110.80
1	W	185	ASN	N-CA-C	-5.28	99.55	110.80
1	Y	185	ASN	N-CA-C	-5.28	99.55	110.80
1	a	185	ASN	N-CA-C	-5.28	99.55	110.80
1	c	185	ASN	N-CA-C	-5.28	99.55	110.80
1	e	185	ASN	N-CA-C	-5.28	99.55	110.80
1	C	89	MET	N-CA-C	-5.28	105.53	111.28
1	G	89	MET	N-CA-C	-5.28	105.53	111.28
1	K	89	MET	N-CA-C	-5.28	105.53	111.28
1	O	89	MET	N-CA-C	-5.28	105.53	111.28
1	S	89	MET	N-CA-C	-5.28	105.53	111.28
1	W	89	MET	N-CA-C	-5.28	105.53	111.28
1	a	89	MET	N-CA-C	-5.28	105.53	111.28
1	e	89	MET	N-CA-C	-5.28	105.53	111.28
1	A	89	MET	N-CA-C	-5.28	105.53	111.28
1	A	231	LEU	N-CA-C	5.28	117.11	111.36
1	E	89	MET	N-CA-C	-5.28	105.53	111.28
1	E	231	LEU	N-CA-C	5.28	117.11	111.36
1	I	89	MET	N-CA-C	-5.28	105.53	111.28
1	I	231	LEU	N-CA-C	5.28	117.11	111.36

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	M	89	MET	N-CA-C	-5.28	105.53	111.28
1	M	231	LEU	N-CA-C	5.28	117.11	111.36
1	Q	89	MET	N-CA-C	-5.28	105.53	111.28
1	Q	231	LEU	N-CA-C	5.28	117.11	111.36
1	U	89	MET	N-CA-C	-5.28	105.53	111.28
1	U	231	LEU	N-CA-C	5.28	117.11	111.36
1	Y	89	MET	N-CA-C	-5.28	105.53	111.28
1	Y	231	LEU	N-CA-C	5.28	117.11	111.36
1	c	89	MET	N-CA-C	-5.28	105.53	111.28
1	c	231	LEU	N-CA-C	5.28	117.11	111.36
1	G	297	VAL	N-CA-C	-5.27	105.39	110.72
1	e	297	VAL	N-CA-C	-5.27	105.39	110.72
1	C	297	VAL	N-CA-C	-5.27	105.40	110.72
1	A	128	LEU	N-CA-C	5.26	116.87	111.03
1	A	300	LEU	N-CA-C	-5.26	105.63	111.36
1	C	128	LEU	N-CA-C	5.26	116.86	111.03
1	E	128	LEU	N-CA-C	5.26	116.87	111.03
1	E	300	LEU	N-CA-C	-5.26	105.63	111.36
1	G	128	LEU	N-CA-C	5.26	116.86	111.03
1	I	128	LEU	N-CA-C	5.26	116.87	111.03
1	I	300	LEU	N-CA-C	-5.26	105.63	111.36
1	K	128	LEU	N-CA-C	5.26	116.86	111.03
1	M	128	LEU	N-CA-C	5.26	116.87	111.03
1	M	300	LEU	N-CA-C	-5.26	105.63	111.36
1	O	128	LEU	N-CA-C	5.26	116.86	111.03
1	Q	128	LEU	N-CA-C	5.26	116.87	111.03
1	Q	300	LEU	N-CA-C	-5.26	105.63	111.36
1	S	128	LEU	N-CA-C	5.26	116.86	111.03
1	U	128	LEU	N-CA-C	5.26	116.87	111.03
1	U	300	LEU	N-CA-C	-5.26	105.63	111.36
1	W	128	LEU	N-CA-C	5.26	116.86	111.03
1	Y	128	LEU	N-CA-C	5.26	116.87	111.03
1	Y	300	LEU	N-CA-C	-5.26	105.63	111.36
1	a	128	LEU	N-CA-C	5.26	116.86	111.03
1	c	128	LEU	N-CA-C	5.26	116.87	111.03
1	c	300	LEU	N-CA-C	-5.26	105.63	111.36
1	e	128	LEU	N-CA-C	5.26	116.86	111.03
1	C	231	LEU	N-CA-C	5.25	117.08	111.36
1	G	231	LEU	N-CA-C	5.25	117.08	111.36
1	K	231	LEU	N-CA-C	5.25	117.08	111.36
1	O	231	LEU	N-CA-C	5.25	117.08	111.36
1	S	231	LEU	N-CA-C	5.25	117.08	111.36

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	W	231	LEU	N-CA-C	5.25	117.08	111.36
1	a	231	LEU	N-CA-C	5.25	117.08	111.36
1	e	231	LEU	N-CA-C	5.25	117.08	111.36
1	A	70	GLU	N-CA-C	5.24	117.40	111.11
1	E	70	GLU	N-CA-C	5.24	117.40	111.11
1	I	70	GLU	N-CA-C	5.24	117.40	111.11
1	M	70	GLU	N-CA-C	5.24	117.40	111.11
1	Q	70	GLU	N-CA-C	5.24	117.40	111.11
1	U	70	GLU	N-CA-C	5.24	117.40	111.11
1	Y	70	GLU	N-CA-C	5.24	117.40	111.11
1	c	70	GLU	N-CA-C	5.24	117.40	111.11
1	C	249	ASN	CA-C-N	-5.22	112.88	120.29
1	C	249	ASN	C-N-CA	-5.22	112.88	120.29
1	G	249	ASN	CA-C-N	-5.22	112.88	120.29
1	G	249	ASN	C-N-CA	-5.22	112.88	120.29
1	K	249	ASN	CA-C-N	-5.22	112.88	120.29
1	K	249	ASN	C-N-CA	-5.22	112.88	120.29
1	O	249	ASN	CA-C-N	-5.22	112.88	120.29
1	O	249	ASN	C-N-CA	-5.22	112.88	120.29
1	S	249	ASN	CA-C-N	-5.22	112.88	120.29
1	S	249	ASN	C-N-CA	-5.22	112.88	120.29
1	W	249	ASN	CA-C-N	-5.22	112.88	120.29
1	W	249	ASN	C-N-CA	-5.22	112.88	120.29
1	a	249	ASN	CA-C-N	-5.22	112.88	120.29
1	a	249	ASN	C-N-CA	-5.22	112.88	120.29
1	e	249	ASN	CA-C-N	-5.22	112.88	120.29
1	e	249	ASN	C-N-CA	-5.22	112.88	120.29
1	A	249	ASN	CA-C-N	-5.21	112.90	120.29
1	A	249	ASN	C-N-CA	-5.21	112.90	120.29
1	E	249	ASN	CA-C-N	-5.21	112.90	120.29
1	E	249	ASN	C-N-CA	-5.21	112.90	120.29
1	I	249	ASN	CA-C-N	-5.21	112.90	120.29
1	I	249	ASN	C-N-CA	-5.21	112.90	120.29
1	M	249	ASN	CA-C-N	-5.21	112.90	120.29
1	M	249	ASN	C-N-CA	-5.21	112.90	120.29
1	Q	249	ASN	CA-C-N	-5.21	112.90	120.29
1	Q	249	ASN	C-N-CA	-5.21	112.90	120.29
1	U	249	ASN	CA-C-N	-5.21	112.90	120.29
1	U	249	ASN	C-N-CA	-5.21	112.90	120.29
1	Y	249	ASN	CA-C-N	-5.21	112.90	120.29
1	Y	249	ASN	C-N-CA	-5.21	112.90	120.29
1	c	249	ASN	CA-C-N	-5.21	112.90	120.29

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	c	249	ASN	C-N-CA	-5.21	112.90	120.29
1	C	70	GLU	N-CA-C	5.20	117.34	111.11
1	G	70	GLU	N-CA-C	5.20	117.34	111.11
1	K	70	GLU	N-CA-C	5.20	117.34	111.11
1	O	70	GLU	N-CA-C	5.20	117.34	111.11
1	S	70	GLU	N-CA-C	5.20	117.34	111.11
1	W	70	GLU	N-CA-C	5.20	117.34	111.11
1	a	70	GLU	N-CA-C	5.20	117.34	111.11
1	e	70	GLU	N-CA-C	5.20	117.34	111.11
1	C	444	VAL	N-CA-C	-5.16	105.35	110.62
1	G	444	VAL	N-CA-C	-5.16	105.35	110.62
1	K	444	VAL	N-CA-C	-5.16	105.35	110.62
1	O	444	VAL	N-CA-C	-5.16	105.35	110.62
1	S	444	VAL	N-CA-C	-5.16	105.35	110.62
1	W	444	VAL	N-CA-C	-5.16	105.35	110.62
1	a	444	VAL	N-CA-C	-5.16	105.35	110.62
1	e	444	VAL	N-CA-C	-5.16	105.35	110.62
1	A	444	VAL	N-CA-C	-5.16	105.36	110.62
1	E	444	VAL	N-CA-C	-5.16	105.36	110.62
1	I	444	VAL	N-CA-C	-5.16	105.36	110.62
1	M	444	VAL	N-CA-C	-5.16	105.36	110.62
1	Q	444	VAL	N-CA-C	-5.16	105.36	110.62
1	U	444	VAL	N-CA-C	-5.16	105.36	110.62
1	Y	444	VAL	N-CA-C	-5.16	105.36	110.62
1	c	444	VAL	N-CA-C	-5.16	105.36	110.62
1	A	183	LEU	CA-C-N	-5.15	110.43	121.45
1	A	183	LEU	C-N-CA	-5.15	110.43	121.45
1	E	183	LEU	CA-C-N	-5.15	110.43	121.45
1	E	183	LEU	C-N-CA	-5.15	110.43	121.45
1	I	183	LEU	CA-C-N	-5.15	110.43	121.45
1	I	183	LEU	C-N-CA	-5.15	110.43	121.45
1	M	183	LEU	CA-C-N	-5.15	110.43	121.45
1	M	183	LEU	C-N-CA	-5.15	110.43	121.45
1	Q	183	LEU	CA-C-N	-5.15	110.43	121.45
1	Q	183	LEU	C-N-CA	-5.15	110.43	121.45
1	U	183	LEU	CA-C-N	-5.15	110.43	121.45
1	U	183	LEU	C-N-CA	-5.15	110.43	121.45
1	Y	183	LEU	CA-C-N	-5.15	110.43	121.45
1	Y	183	LEU	C-N-CA	-5.15	110.43	121.45
1	c	183	LEU	CA-C-N	-5.15	110.43	121.45
1	c	183	LEU	C-N-CA	-5.15	110.43	121.45
1	A	94	THR	N-CA-C	-5.14	105.67	111.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	E	94	THR	N-CA-C	-5.14	105.67	111.28
1	I	94	THR	N-CA-C	-5.14	105.67	111.28
1	M	94	THR	N-CA-C	-5.14	105.67	111.28
1	Q	94	THR	N-CA-C	-5.14	105.67	111.28
1	U	94	THR	N-CA-C	-5.14	105.67	111.28
1	Y	94	THR	N-CA-C	-5.14	105.67	111.28
1	c	94	THR	N-CA-C	-5.14	105.67	111.28
1	C	94	THR	N-CA-C	-5.14	105.67	111.28
1	G	94	THR	N-CA-C	-5.14	105.67	111.28
1	K	94	THR	N-CA-C	-5.14	105.67	111.28
1	O	94	THR	N-CA-C	-5.14	105.67	111.28
1	S	94	THR	N-CA-C	-5.14	105.67	111.28
1	W	94	THR	N-CA-C	-5.14	105.67	111.28
1	a	94	THR	N-CA-C	-5.14	105.67	111.28
1	e	94	THR	N-CA-C	-5.14	105.67	111.28
1	C	183	LEU	CA-C-N	-5.13	110.47	121.45
1	C	183	LEU	C-N-CA	-5.13	110.47	121.45
1	G	183	LEU	CA-C-N	-5.13	110.47	121.45
1	G	183	LEU	C-N-CA	-5.13	110.47	121.45
1	K	183	LEU	CA-C-N	-5.13	110.47	121.45
1	K	183	LEU	C-N-CA	-5.13	110.47	121.45
1	O	183	LEU	CA-C-N	-5.13	110.47	121.45
1	O	183	LEU	C-N-CA	-5.13	110.47	121.45
1	S	183	LEU	CA-C-N	-5.13	110.47	121.45
1	S	183	LEU	C-N-CA	-5.13	110.47	121.45
1	W	183	LEU	CA-C-N	-5.13	110.47	121.45
1	W	183	LEU	C-N-CA	-5.13	110.47	121.45
1	a	183	LEU	CA-C-N	-5.13	110.47	121.45
1	a	183	LEU	C-N-CA	-5.13	110.47	121.45
1	e	183	LEU	CA-C-N	-5.13	110.47	121.45
1	e	183	LEU	C-N-CA	-5.13	110.47	121.45
1	C	241	LEU	CA-C-N	5.12	129.94	122.41
1	C	241	LEU	C-N-CA	5.12	129.94	122.41
1	G	241	LEU	CA-C-N	5.12	129.94	122.41
1	G	241	LEU	C-N-CA	5.12	129.94	122.41
1	K	241	LEU	CA-C-N	5.12	129.94	122.41
1	K	241	LEU	C-N-CA	5.12	129.94	122.41
1	O	241	LEU	CA-C-N	5.12	129.94	122.41
1	O	241	LEU	C-N-CA	5.12	129.94	122.41
1	S	241	LEU	CA-C-N	5.12	129.94	122.41
1	S	241	LEU	C-N-CA	5.12	129.94	122.41
1	W	241	LEU	CA-C-N	5.12	129.94	122.41

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	W	241	LEU	C-N-CA	5.12	129.94	122.41
1	a	241	LEU	CA-C-N	5.12	129.94	122.41
1	a	241	LEU	C-N-CA	5.12	129.94	122.41
1	e	241	LEU	CA-C-N	5.12	129.94	122.41
1	e	241	LEU	C-N-CA	5.12	129.94	122.41
1	A	241	LEU	CA-C-N	5.12	129.94	122.41
1	A	241	LEU	C-N-CA	5.12	129.94	122.41
1	E	241	LEU	CA-C-N	5.12	129.94	122.41
1	E	241	LEU	C-N-CA	5.12	129.94	122.41
1	I	241	LEU	CA-C-N	5.12	129.94	122.41
1	I	241	LEU	C-N-CA	5.12	129.94	122.41
1	M	241	LEU	CA-C-N	5.12	129.94	122.41
1	M	241	LEU	C-N-CA	5.12	129.94	122.41
1	Q	241	LEU	CA-C-N	5.12	129.94	122.41
1	Q	241	LEU	C-N-CA	5.12	129.94	122.41
1	U	241	LEU	CA-C-N	5.12	129.94	122.41
1	U	241	LEU	C-N-CA	5.12	129.94	122.41
1	Y	241	LEU	CA-C-N	5.12	129.94	122.41
1	Y	241	LEU	C-N-CA	5.12	129.94	122.41
1	c	241	LEU	CA-C-N	5.12	129.94	122.41
1	c	241	LEU	C-N-CA	5.12	129.94	122.41
1	A	488	ARG	N-CA-C	-5.11	105.07	111.92
1	E	488	ARG	N-CA-C	-5.11	105.07	111.92
1	I	488	ARG	N-CA-C	-5.11	105.07	111.92
1	M	488	ARG	N-CA-C	-5.11	105.07	111.92
1	Q	488	ARG	N-CA-C	-5.11	105.07	111.92
1	U	488	ARG	N-CA-C	-5.11	105.07	111.92
1	Y	488	ARG	N-CA-C	-5.11	105.07	111.92
1	c	488	ARG	N-CA-C	-5.11	105.07	111.92
1	C	488	ARG	N-CA-C	-5.09	105.10	111.92
1	G	488	ARG	N-CA-C	-5.09	105.10	111.92
1	K	488	ARG	N-CA-C	-5.09	105.10	111.92
1	O	488	ARG	N-CA-C	-5.09	105.10	111.92
1	S	488	ARG	N-CA-C	-5.09	105.10	111.92
1	W	488	ARG	N-CA-C	-5.09	105.10	111.92
1	a	488	ARG	N-CA-C	-5.09	105.10	111.92
1	e	488	ARG	N-CA-C	-5.09	105.10	111.92
1	A	367	LYS	N-CA-C	5.07	116.50	111.07
1	E	367	LYS	N-CA-C	5.07	116.50	111.07
1	I	367	LYS	N-CA-C	5.07	116.50	111.07
1	M	367	LYS	N-CA-C	5.07	116.50	111.07
1	Q	367	LYS	N-CA-C	5.07	116.50	111.07

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	U	367	LYS	N-CA-C	5.07	116.50	111.07
1	Y	367	LYS	N-CA-C	5.07	116.50	111.07
1	c	367	LYS	N-CA-C	5.07	116.50	111.07
1	C	367	LYS	N-CA-C	5.07	116.49	111.07
1	G	367	LYS	N-CA-C	5.07	116.49	111.07
1	K	367	LYS	N-CA-C	5.07	116.49	111.07
1	O	367	LYS	N-CA-C	5.07	116.49	111.07
1	S	367	LYS	N-CA-C	5.07	116.49	111.07
1	W	367	LYS	N-CA-C	5.07	116.49	111.07
1	a	367	LYS	N-CA-C	5.07	116.49	111.07
1	e	367	LYS	N-CA-C	5.07	116.49	111.07
2	B	74	ARG	N-CA-C	-5.06	106.95	113.23
2	F	74	ARG	N-CA-C	-5.06	106.95	113.23
2	J	74	ARG	N-CA-C	-5.06	106.95	113.23
2	N	74	ARG	N-CA-C	-5.06	106.95	113.23
2	R	74	ARG	N-CA-C	-5.06	106.95	113.23
2	V	74	ARG	N-CA-C	-5.06	106.95	113.23
2	Z	74	ARG	N-CA-C	-5.06	106.95	113.23
2	d	74	ARG	N-CA-C	-5.06	106.95	113.23
2	D	74	ARG	N-CA-C	-5.06	106.95	113.23
2	H	74	ARG	N-CA-C	-5.06	106.95	113.23
2	L	74	ARG	N-CA-C	-5.06	106.95	113.23
2	P	74	ARG	N-CA-C	-5.06	106.95	113.23
2	T	74	ARG	N-CA-C	-5.06	106.95	113.23
2	X	74	ARG	N-CA-C	-5.06	106.95	113.23
2	b	74	ARG	N-CA-C	-5.06	106.95	113.23
2	f	74	ARG	N-CA-C	-5.06	106.95	113.23
1	C	99	PRO	N-CA-CB	5.06	108.56	103.25
1	G	99	PRO	N-CA-CB	5.06	108.56	103.25
1	K	99	PRO	N-CA-CB	5.06	108.56	103.25
1	O	99	PRO	N-CA-CB	5.06	108.56	103.25
1	S	99	PRO	N-CA-CB	5.06	108.56	103.25
1	W	99	PRO	N-CA-CB	5.06	108.56	103.25
1	a	99	PRO	N-CA-CB	5.06	108.56	103.25
1	e	99	PRO	N-CA-CB	5.06	108.56	103.25
1	A	304	TYR	N-CA-C	-5.05	105.78	111.28
1	C	51	SER	N-CA-C	5.05	118.59	111.52
1	E	304	TYR	N-CA-C	-5.05	105.78	111.28
1	G	51	SER	N-CA-C	5.05	118.59	111.52
1	I	304	TYR	N-CA-C	-5.05	105.78	111.28
1	K	51	SER	N-CA-C	5.05	118.59	111.52
1	M	304	TYR	N-CA-C	-5.05	105.78	111.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	O	51	SER	N-CA-C	5.05	118.59	111.52
1	Q	304	TYR	N-CA-C	-5.05	105.78	111.28
1	S	51	SER	N-CA-C	5.05	118.59	111.52
1	U	304	TYR	N-CA-C	-5.05	105.78	111.28
1	W	51	SER	N-CA-C	5.05	118.59	111.52
1	Y	304	TYR	N-CA-C	-5.05	105.78	111.28
1	a	51	SER	N-CA-C	5.05	118.59	111.52
1	c	304	TYR	N-CA-C	-5.05	105.78	111.28
1	e	51	SER	N-CA-C	5.05	118.59	111.52
1	A	51	SER	N-CA-C	5.04	118.58	111.52
1	E	51	SER	N-CA-C	5.04	118.58	111.52
1	I	51	SER	N-CA-C	5.04	118.58	111.52
1	M	51	SER	N-CA-C	5.04	118.58	111.52
1	Q	51	SER	N-CA-C	5.04	118.58	111.52
1	U	51	SER	N-CA-C	5.04	118.58	111.52
1	Y	51	SER	N-CA-C	5.04	118.58	111.52
1	c	51	SER	N-CA-C	5.04	118.58	111.52
1	C	430	LYS	CB-CA-C	-5.04	102.75	110.81
1	G	430	LYS	CB-CA-C	-5.04	102.75	110.81
1	K	430	LYS	CB-CA-C	-5.04	102.75	110.81
1	O	430	LYS	CB-CA-C	-5.04	102.75	110.81
1	S	430	LYS	CB-CA-C	-5.04	102.75	110.81
1	W	430	LYS	CB-CA-C	-5.04	102.75	110.81
1	a	430	LYS	CB-CA-C	-5.04	102.75	110.81
1	e	430	LYS	CB-CA-C	-5.04	102.75	110.81
1	C	304	TYR	N-CA-C	-5.03	105.79	111.28
1	G	304	TYR	N-CA-C	-5.03	105.79	111.28
1	K	304	TYR	N-CA-C	-5.03	105.79	111.28
1	O	304	TYR	N-CA-C	-5.03	105.79	111.28
1	S	304	TYR	N-CA-C	-5.03	105.79	111.28
1	W	304	TYR	N-CA-C	-5.03	105.79	111.28
1	a	304	TYR	N-CA-C	-5.03	105.79	111.28
1	e	304	TYR	N-CA-C	-5.03	105.79	111.28
1	A	99	PRO	N-CA-CB	5.03	108.53	103.25
1	A	430	LYS	CB-CA-C	-5.03	102.76	110.81
1	E	99	PRO	N-CA-CB	5.03	108.53	103.25
1	E	430	LYS	CB-CA-C	-5.03	102.76	110.81
1	I	99	PRO	N-CA-CB	5.03	108.53	103.25
1	I	430	LYS	CB-CA-C	-5.03	102.76	110.81
1	M	99	PRO	N-CA-CB	5.03	108.53	103.25
1	M	430	LYS	CB-CA-C	-5.03	102.76	110.81
1	Q	99	PRO	N-CA-CB	5.03	108.53	103.25

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	Q	430	LYS	CB-CA-C	-5.03	102.76	110.81
1	U	99	PRO	N-CA-CB	5.03	108.53	103.25
1	U	430	LYS	CB-CA-C	-5.03	102.76	110.81
1	Y	99	PRO	N-CA-CB	5.03	108.53	103.25
1	Y	430	LYS	CB-CA-C	-5.03	102.76	110.81
1	c	99	PRO	N-CA-CB	5.03	108.53	103.25
1	c	430	LYS	CB-CA-C	-5.03	102.76	110.81
1	A	202	GLN	N-CA-C	-5.03	105.45	111.03
1	C	408	TYR	N-CA-C	5.03	116.57	111.14
1	E	202	GLN	N-CA-C	-5.03	105.45	111.03
1	G	408	TYR	N-CA-C	5.03	116.57	111.14
1	I	202	GLN	N-CA-C	-5.03	105.45	111.03
1	K	408	TYR	N-CA-C	5.03	116.57	111.14
1	M	202	GLN	N-CA-C	-5.03	105.45	111.03
1	O	408	TYR	N-CA-C	5.03	116.57	111.14
1	Q	202	GLN	N-CA-C	-5.03	105.45	111.03
1	S	408	TYR	N-CA-C	5.03	116.57	111.14
1	U	202	GLN	N-CA-C	-5.03	105.45	111.03
1	W	408	TYR	N-CA-C	5.03	116.57	111.14
1	Y	202	GLN	N-CA-C	-5.03	105.45	111.03
1	a	408	TYR	N-CA-C	5.03	116.57	111.14
1	c	202	GLN	N-CA-C	-5.03	105.45	111.03
1	e	408	TYR	N-CA-C	5.03	116.57	111.14
1	A	408	TYR	N-CA-C	5.02	116.56	111.14
1	E	408	TYR	N-CA-C	5.02	116.56	111.14
1	I	408	TYR	N-CA-C	5.02	116.56	111.14
1	M	408	TYR	N-CA-C	5.02	116.56	111.14
1	Q	408	TYR	N-CA-C	5.02	116.56	111.14
1	U	408	TYR	N-CA-C	5.02	116.56	111.14
1	Y	408	TYR	N-CA-C	5.02	116.56	111.14
1	c	408	TYR	N-CA-C	5.02	116.56	111.14
1	C	202	GLN	N-CA-C	-5.01	105.47	111.03
1	G	202	GLN	N-CA-C	-5.01	105.47	111.03
1	K	202	GLN	N-CA-C	-5.01	105.47	111.03
1	O	202	GLN	N-CA-C	-5.01	105.47	111.03
1	S	202	GLN	N-CA-C	-5.01	105.47	111.03
1	W	202	GLN	N-CA-C	-5.01	105.47	111.03
1	a	202	GLN	N-CA-C	-5.01	105.47	111.03
1	e	202	GLN	N-CA-C	-5.01	105.47	111.03
1	A	557	LYS	CA-C-N	5.00	131.10	121.54
1	A	557	LYS	C-N-CA	5.00	131.10	121.54
1	E	557	LYS	CA-C-N	5.00	131.10	121.54

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	E	557	LYS	C-N-CA	5.00	131.10	121.54
1	I	557	LYS	CA-C-N	5.00	131.10	121.54
1	I	557	LYS	C-N-CA	5.00	131.10	121.54
1	M	557	LYS	CA-C-N	5.00	131.10	121.54
1	M	557	LYS	C-N-CA	5.00	131.10	121.54
1	Q	557	LYS	CA-C-N	5.00	131.10	121.54
1	Q	557	LYS	C-N-CA	5.00	131.10	121.54
1	U	557	LYS	CA-C-N	5.00	131.10	121.54
1	U	557	LYS	C-N-CA	5.00	131.10	121.54
1	Y	557	LYS	CA-C-N	5.00	131.10	121.54
1	Y	557	LYS	C-N-CA	5.00	131.10	121.54
1	c	557	LYS	CA-C-N	5.00	131.10	121.54
1	c	557	LYS	C-N-CA	5.00	131.10	121.54

There are no chirality outliers.

All (112) planarity outliers are listed below:

Mol	Chain	Res	Type	Group
1	A	278	ALA	Peptide
1	A	346	CYS	Mainchain
1	A	410	LEU	Peptide
1	A	411	VAL	Peptide
1	A	463	LEU	Peptide
1	A	50	MET	Peptide
1	A	66	LEU	Mainchain
1	C	278	ALA	Peptide
1	C	346	CYS	Mainchain
1	C	410	LEU	Peptide
1	C	411	VAL	Peptide
1	C	463	LEU	Peptide
1	C	50	MET	Peptide
1	C	66	LEU	Mainchain
1	E	278	ALA	Peptide
1	E	346	CYS	Mainchain
1	E	410	LEU	Peptide
1	E	411	VAL	Peptide
1	E	463	LEU	Peptide
1	E	50	MET	Peptide
1	E	66	LEU	Mainchain
1	G	278	ALA	Peptide
1	G	346	CYS	Mainchain
1	G	410	LEU	Peptide

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Mol	Chain	Res	Type	Group
1	G	411	VAL	Peptide
1	G	463	LEU	Peptide
1	G	50	MET	Peptide
1	G	66	LEU	Mainchain
1	I	278	ALA	Peptide
1	I	346	CYS	Mainchain
1	I	410	LEU	Peptide
1	I	411	VAL	Peptide
1	I	463	LEU	Peptide
1	I	50	MET	Peptide
1	I	66	LEU	Mainchain
1	K	278	ALA	Peptide
1	K	346	CYS	Mainchain
1	K	410	LEU	Peptide
1	K	411	VAL	Peptide
1	K	463	LEU	Peptide
1	K	50	MET	Peptide
1	K	66	LEU	Mainchain
1	M	278	ALA	Peptide
1	M	346	CYS	Mainchain
1	M	410	LEU	Peptide
1	M	411	VAL	Peptide
1	M	463	LEU	Peptide
1	M	50	MET	Peptide
1	M	66	LEU	Mainchain
1	O	278	ALA	Peptide
1	O	346	CYS	Mainchain
1	O	410	LEU	Peptide
1	O	411	VAL	Peptide
1	O	463	LEU	Peptide
1	O	50	MET	Peptide
1	O	66	LEU	Mainchain
1	Q	278	ALA	Peptide
1	Q	346	CYS	Mainchain
1	Q	410	LEU	Peptide
1	Q	411	VAL	Peptide
1	Q	463	LEU	Peptide
1	Q	50	MET	Peptide
1	Q	66	LEU	Mainchain
1	S	278	ALA	Peptide
1	S	346	CYS	Mainchain
1	S	410	LEU	Peptide

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Mol	Chain	Res	Type	Group
1	S	411	VAL	Peptide
1	S	463	LEU	Peptide
1	S	50	MET	Peptide
1	S	66	LEU	Mainchain
1	U	278	ALA	Peptide
1	U	346	CYS	Mainchain
1	U	410	LEU	Peptide
1	U	411	VAL	Peptide
1	U	463	LEU	Peptide
1	U	50	MET	Peptide
1	U	66	LEU	Mainchain
1	W	278	ALA	Peptide
1	W	346	CYS	Mainchain
1	W	410	LEU	Peptide
1	W	411	VAL	Peptide
1	W	463	LEU	Peptide
1	W	50	MET	Peptide
1	W	66	LEU	Mainchain
1	Y	278	ALA	Peptide
1	Y	346	CYS	Mainchain
1	Y	410	LEU	Peptide
1	Y	411	VAL	Peptide
1	Y	463	LEU	Peptide
1	Y	50	MET	Peptide
1	Y	66	LEU	Mainchain
1	a	278	ALA	Peptide
1	a	346	CYS	Mainchain
1	a	410	LEU	Peptide
1	a	411	VAL	Peptide
1	a	463	LEU	Peptide
1	a	50	MET	Peptide
1	a	66	LEU	Mainchain
1	c	278	ALA	Peptide
1	c	346	CYS	Mainchain
1	c	410	LEU	Peptide
1	c	411	VAL	Peptide
1	c	463	LEU	Peptide
1	c	50	MET	Peptide
1	c	66	LEU	Mainchain
1	e	278	ALA	Peptide
1	e	346	CYS	Mainchain
1	e	410	LEU	Peptide

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Mol	Chain	Res	Type	Group
1	e	411	VAL	Peptide
1	e	463	LEU	Peptide
1	e	50	MET	Peptide
1	e	66	LEU	Mainchain

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	A	7040	0	5126	1296	0
1	C	7040	0	5126	1295	0
1	E	7040	0	5126	1290	0
1	G	7040	0	5126	1277	0
1	I	7040	0	5126	1299	0
1	K	7040	0	5126	1292	0
1	M	7040	0	5126	1295	0
1	O	7040	0	5126	1280	0
1	Q	7040	0	5126	1285	0
1	S	7040	0	5126	1276	0
1	U	7040	0	5126	1286	0
1	W	7040	0	5126	1291	0
1	Y	7040	0	5126	1281	0
1	a	7040	0	5126	1283	0
1	c	7040	0	5126	1295	0
1	e	7040	0	5126	1291	0
2	B	840	0	863	128	0
2	D	840	0	863	125	0
2	F	840	0	863	129	0
2	H	840	0	863	129	0
2	J	840	0	863	129	0
2	L	840	0	863	125	0
2	N	840	0	863	126	0
2	P	840	0	863	129	0
2	R	840	0	863	126	0
2	T	840	0	863	129	0
2	V	840	0	863	129	0
2	X	840	0	863	125	0
2	Z	840	0	863	126	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
2	b	840	0	863	128	0
2	d	840	0	863	127	0
2	f	840	0	863	123	0
3	A	27	0	12	4	0
3	C	27	0	12	4	0
3	E	27	0	12	4	0
3	G	27	0	12	4	0
3	I	27	0	12	4	0
3	K	27	0	12	4	0
3	M	27	0	12	4	0
3	O	27	0	12	4	0
3	Q	27	0	12	4	0
3	S	27	0	12	4	0
3	U	27	0	12	4	0
3	W	27	0	12	4	0
3	Y	27	0	12	4	0
3	a	27	0	12	4	0
3	c	27	0	12	4	0
3	e	27	0	12	4	0
All	All	126512	0	96016	22156	0

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 100.

All (22156) 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:U:410:LEU:HB3	1:U:426:TYR:CE1	1.29	1.68
1:E:410:LEU:HB3	1:E:426:TYR:CE1	1.29	1.67
1:C:410:LEU:HB3	1:C:426:TYR:CE1	1.29	1.67
1:W:410:LEU:HB3	1:W:426:TYR:CE1	1.29	1.66
1:W:183:LEU:HD22	1:W:186:CYS:SG	1.35	1.66
1:C:183:LEU:HD22	1:C:186:CYS:SG	1.35	1.66
1:K:183:LEU:HD22	1:K:186:CYS:SG	1.35	1.66
1:e:183:LEU:HD22	1:e:186:CYS:SG	1.35	1.65
1:A:183:LEU:HD22	1:A:186:CYS:SG	1.35	1.65
1:E:183:LEU:HD22	1:E:186:CYS:SG	1.35	1.65
1:S:410:LEU:HB3	1:S:426:TYR:CE1	1.29	1.65
1:I:183:LEU:HD22	1:I:186:CYS:SG	1.35	1.65
1:G:371:ARG:CG	1:G:389:ILE:HD11	1.22	1.64
1:U:183:LEU:HD22	1:U:186:CYS:SG	1.35	1.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:410:LEU:HB3	1:G:426:TYR:CE1	1.29	1.64
1:S:371:ARG:CG	1:S:389:ILE:HD11	1.22	1.64
1:Q:410:LEU:HB3	1:Q:426:TYR:CE1	1.29	1.64
1:Y:183:LEU:HD22	1:Y:186:CYS:SG	1.35	1.64
1:Q:183:LEU:HD22	1:Q:186:CYS:SG	1.35	1.63
1:Y:410:LEU:HB3	1:Y:426:TYR:CE1	1.29	1.63
1:M:183:LEU:HD22	1:M:186:CYS:SG	1.35	1.63
1:c:183:LEU:HD22	1:c:186:CYS:SG	1.35	1.62
1:K:410:LEU:HB3	1:K:426:TYR:CE1	1.29	1.62
1:M:410:LEU:HB3	1:M:426:TYR:CE1	1.29	1.62
1:a:183:LEU:HD22	1:a:186:CYS:SG	1.35	1.62
1:O:410:LEU:HB3	1:O:426:TYR:CE1	1.29	1.62
1:O:183:LEU:HD22	1:O:186:CYS:SG	1.35	1.61
1:a:410:LEU:HB3	1:a:426:TYR:CE1	1.29	1.61
1:c:410:LEU:HB3	1:c:426:TYR:CE1	1.29	1.61
1:e:410:LEU:HB3	1:e:426:TYR:CE1	1.29	1.61
1:A:410:LEU:HB3	1:A:426:TYR:CE1	1.29	1.61
1:C:371:ARG:CG	1:C:389:ILE:HD11	1.22	1.60
1:I:410:LEU:HB3	1:I:426:TYR:CE1	1.29	1.60
1:W:371:ARG:CG	1:W:389:ILE:HD11	1.22	1.60
1:M:371:ARG:CG	1:M:389:ILE:HD11	1.22	1.59
1:c:371:ARG:CG	1:c:389:ILE:HD11	1.22	1.59
1:I:410:LEU:CD1	1:I:423:PRO:HD2	1.15	1.59
1:O:371:ARG:HD2	1:O:389:ILE:CD1	1.12	1.59
1:a:371:ARG:HD2	1:a:389:ILE:CD1	1.12	1.59
1:G:410:LEU:CD1	1:G:423:PRO:HD2	1.15	1.59
1:S:410:LEU:CD1	1:S:423:PRO:HD2	1.15	1.59
1:e:657:UNK:C	1:e:658:UNK:H2	1.05	1.59
1:U:371:ARG:CG	1:U:389:ILE:HD11	1.22	1.59
1:A:410:LEU:CD1	1:A:423:PRO:HD2	1.15	1.58
1:K:371:ARG:CG	1:K:389:ILE:HD11	1.22	1.58
1:S:183:LEU:HD22	1:S:186:CYS:SG	1.35	1.58
1:c:657:UNK:C	1:c:658:UNK:H2	1.05	1.58
1:M:371:ARG:HD2	1:M:389:ILE:CD1	1.12	1.58
1:e:371:ARG:CG	1:e:389:ILE:HD11	1.22	1.58
1:E:371:ARG:CG	1:E:389:ILE:HD11	1.22	1.58
1:G:183:LEU:HD22	1:G:186:CYS:SG	1.35	1.58
1:K:657:UNK:C	1:K:658:UNK:H2	1.05	1.58
1:Y:371:ARG:HD2	1:Y:389:ILE:CD1	1.12	1.58
1:M:657:UNK:C	1:M:658:UNK:H2	1.05	1.58
1:c:371:ARG:HD2	1:c:389:ILE:CD1	1.12	1.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Q:371:ARG:HD2	1:Q:389:ILE:CD1	1.12	1.58
1:C:149:ILE:HG23	1:C:283:ILE:CG2	1.34	1.57
1:I:882:UNK:C	1:I:883:UNK:N	1.67	1.57
1:W:149:ILE:HG23	1:W:283:ILE:CG2	1.34	1.57
1:A:149:ILE:HG23	1:A:283:ILE:CG2	1.35	1.57
1:A:882:UNK:C	1:A:883:UNK:N	1.67	1.57
1:I:149:ILE:HG23	1:I:283:ILE:CG2	1.35	1.57
1:a:371:ARG:CD	1:a:389:ILE:CD1	1.82	1.57
1:A:657:UNK:C	1:A:658:UNK:H2	1.05	1.57
1:K:410:LEU:CD1	1:K:423:PRO:HD2	1.15	1.57
1:O:371:ARG:CD	1:O:389:ILE:CD1	1.82	1.57
1:C:410:LEU:CD1	1:C:423:PRO:HD2	1.15	1.57
1:E:882:UNK:C	1:E:883:UNK:N	1.67	1.57
1:O:371:ARG:CG	1:O:389:ILE:HD11	1.22	1.57
1:W:410:LEU:CD1	1:W:423:PRO:HD2	1.15	1.57
1:a:657:UNK:C	1:a:658:UNK:H2	1.05	1.57
1:a:410:LEU:CD1	1:a:423:PRO:HD2	1.15	1.57
1:A:371:ARG:CG	1:A:389:ILE:HD11	1.22	1.56
1:I:657:UNK:C	1:I:658:UNK:H2	1.05	1.56
1:U:882:UNK:C	1:U:883:UNK:N	1.67	1.56
1:Y:371:ARG:CG	1:Y:389:ILE:HD11	1.22	1.56
1:e:410:LEU:CD1	1:e:423:PRO:HD2	1.15	1.56
1:G:340:ASN:HA	1:G:344:VAL:CB	1.33	1.56
1:O:657:UNK:C	1:O:658:UNK:H2	1.05	1.56
1:S:340:ASN:HA	1:S:344:VAL:CB	1.33	1.56
1:a:371:ARG:CG	1:a:389:ILE:HD11	1.22	1.56
1:C:340:ASN:HA	1:C:344:VAL:CB	1.33	1.56
1:K:371:ARG:HD2	1:K:389:ILE:CD1	1.12	1.56
1:O:410:LEU:CD1	1:O:423:PRO:HD2	1.15	1.56
1:Q:371:ARG:CG	1:Q:389:ILE:HD11	1.22	1.56
1:S:149:ILE:HG23	1:S:283:ILE:CG2	1.34	1.56
1:W:371:ARG:HD2	1:W:389:ILE:CD1	1.12	1.56
1:E:657:UNK:C	1:E:658:UNK:H2	1.05	1.56
1:G:657:UNK:C	1:G:658:UNK:H2	1.05	1.56
1:I:371:ARG:CG	1:I:389:ILE:HD11	1.22	1.56
1:Q:410:LEU:CD1	1:Q:423:PRO:HD2	1.15	1.56
1:W:340:ASN:HA	1:W:344:VAL:CB	1.33	1.56
1:G:149:ILE:HG23	1:G:283:ILE:CG2	1.34	1.55
1:Q:371:ARG:CD	1:Q:389:ILE:CD1	1.82	1.55
1:Y:149:ILE:HG23	1:Y:283:ILE:CG2	1.35	1.55
1:Y:410:LEU:CD1	1:Y:423:PRO:HD2	1.15	1.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:e:371:ARG:HD2	1:e:389:ILE:CD1	1.12	1.55
1:C:371:ARG:HD2	1:C:389:ILE:CD1	1.12	1.55
1:S:657:UNK:C	1:S:658:UNK:H2	1.05	1.55
1:Q:149:ILE:HG23	1:Q:283:ILE:CG2	1.35	1.55
1:U:657:UNK:C	1:U:658:UNK:H2	1.05	1.55
1:M:340:ASN:HA	1:M:344:VAL:CB	1.33	1.55
1:W:882:UNK:C	1:W:883:UNK:N	1.67	1.55
1:Y:340:ASN:HA	1:Y:344:VAL:CB	1.33	1.55
1:Y:371:ARG:CD	1:Y:389:ILE:CD1	1.82	1.55
1:Q:340:ASN:HA	1:Q:344:VAL:CB	1.33	1.55
1:Q:882:UNK:C	1:Q:883:UNK:N	1.67	1.55
1:Y:657:UNK:C	1:Y:658:UNK:H2	1.05	1.55
1:c:340:ASN:HA	1:c:344:VAL:CB	1.33	1.55
1:C:882:UNK:C	1:C:883:UNK:N	1.67	1.54
1:Y:882:UNK:C	1:Y:883:UNK:N	1.67	1.54
1:c:410:LEU:CD1	1:c:423:PRO:HD2	1.15	1.54
1:I:371:ARG:HD2	1:I:389:ILE:CD1	1.12	1.54
1:U:410:LEU:CD1	1:U:423:PRO:HD2	1.15	1.54
1:W:19:PHE:CE2	1:W:92:ILE:HG12	1.42	1.54
1:C:19:PHE:CE2	1:C:92:ILE:HG12	1.42	1.54
1:K:149:ILE:HG23	1:K:283:ILE:CG2	1.34	1.54
1:Q:657:UNK:C	1:Q:658:UNK:H2	1.05	1.54
1:E:149:ILE:HG23	1:E:283:ILE:CG2	1.35	1.54
1:K:371:ARG:CD	1:K:389:ILE:CD1	1.82	1.54
1:M:410:LEU:CD1	1:M:423:PRO:HD2	1.15	1.54
1:M:882:UNK:C	1:M:883:UNK:N	1.67	1.54
1:S:882:UNK:C	1:S:883:UNK:N	1.67	1.54
1:W:371:ARG:CD	1:W:389:ILE:CD1	1.82	1.54
1:e:371:ARG:CD	1:e:389:ILE:CD1	1.82	1.54
1:E:371:ARG:HD2	1:E:389:ILE:CD1	1.12	1.54
1:E:410:LEU:CD1	1:E:423:PRO:HD2	1.15	1.54
1:S:371:ARG:CD	1:S:389:ILE:HD11	1.37	1.54
1:U:340:ASN:HA	1:U:344:VAL:CB	1.33	1.54
1:U:371:ARG:HD2	1:U:389:ILE:CD1	1.12	1.54
1:c:882:UNK:C	1:c:883:UNK:N	1.67	1.54
1:e:149:ILE:HG23	1:e:283:ILE:CG2	1.34	1.54
1:A:371:ARG:HD2	1:A:389:ILE:CD1	1.12	1.53
1:A:371:ARG:CD	1:A:389:ILE:HD11	1.37	1.53
1:C:371:ARG:CD	1:C:389:ILE:CD1	1.82	1.53
1:C:657:UNK:C	1:C:658:UNK:H2	1.05	1.53
1:G:371:ARG:HD2	1:G:389:ILE:CD1	1.12	1.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:371:ARG:CD	1:G:389:ILE:HD11	1.37	1.53
1:E:340:ASN:HA	1:E:344:VAL:CB	1.33	1.53
1:G:882:UNK:C	1:G:883:UNK:N	1.67	1.53
1:U:149:ILE:HG23	1:U:283:ILE:CG2	1.35	1.53
1:U:371:ARG:CD	1:U:389:ILE:HD11	1.37	1.53
1:E:371:ARG:CD	1:E:389:ILE:HD11	1.37	1.53
1:I:371:ARG:CD	1:I:389:ILE:HD11	1.37	1.53
1:S:371:ARG:HD2	1:S:389:ILE:CD1	1.12	1.53
1:W:657:UNK:C	1:W:658:UNK:H2	1.05	1.53
1:E:19:PHE:CE2	1:E:92:ILE:HG12	1.42	1.53
1:K:19:PHE:CE2	1:K:92:ILE:HG12	1.42	1.53
1:e:340:ASN:HA	1:e:344:VAL:CB	1.33	1.53
1:U:19:PHE:CE2	1:U:92:ILE:HG12	1.42	1.52
1:e:19:PHE:CE2	1:e:92:ILE:HG12	1.42	1.52
1:K:340:ASN:HA	1:K:344:VAL:CB	1.33	1.52
1:W:371:ARG:CD	1:W:389:ILE:HD11	1.37	1.52
1:e:882:UNK:C	1:e:883:UNK:N	1.67	1.52
1:C:371:ARG:CD	1:C:389:ILE:HD11	1.37	1.52
1:G:327:ILE:HD13	1:G:341:TRP:CZ3	1.43	1.52
1:M:371:ARG:CD	1:M:389:ILE:CD1	1.82	1.52
1:S:327:ILE:HD13	1:S:341:TRP:CZ3	1.43	1.52
1:O:19:PHE:CE2	1:O:92:ILE:HG12	1.42	1.52
1:a:19:PHE:CE2	1:a:92:ILE:HG12	1.42	1.52
1:a:149:ILE:HG23	1:a:283:ILE:CG2	1.34	1.52
1:K:882:UNK:C	1:K:883:UNK:N	1.67	1.52
1:M:327:ILE:HD13	1:M:341:TRP:CZ3	1.43	1.52
1:c:327:ILE:HD13	1:c:341:TRP:CZ3	1.43	1.52
1:W:327:ILE:HD13	1:W:341:TRP:CZ3	1.43	1.51
1:a:327:ILE:HD13	1:a:341:TRP:CZ3	1.43	1.51
1:c:371:ARG:CD	1:c:389:ILE:CD1	1.82	1.51
1:e:371:ARG:CD	1:e:389:ILE:HD11	1.37	1.51
1:C:327:ILE:HD13	1:C:341:TRP:CZ3	1.43	1.51
1:O:149:ILE:HG23	1:O:283:ILE:CG2	1.34	1.51
1:O:327:ILE:HD13	1:O:341:TRP:CZ3	1.43	1.51
1:K:371:ARG:CD	1:K:389:ILE:HD11	1.37	1.51
1:M:657:UNK:C	1:M:658:UNK:N	1.73	1.51
1:a:882:UNK:C	1:a:883:UNK:N	1.67	1.51
1:I:340:ASN:HA	1:I:344:VAL:CB	1.33	1.51
1:A:19:PHE:CE2	1:A:92:ILE:HG12	1.42	1.51
1:M:149:ILE:HG23	1:M:283:ILE:CG2	1.35	1.51
1:A:340:ASN:HA	1:A:344:VAL:CB	1.33	1.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:327:ILE:HD13	1:E:341:TRP:CZ3	1.43	1.50
1:O:882:UNK:C	1:O:883:UNK:N	1.67	1.50
1:S:19:PHE:CE2	1:S:92:ILE:HG12	1.42	1.50
1:c:657:UNK:C	1:c:658:UNK:N	1.73	1.50
1:E:371:ARG:CD	1:E:389:ILE:CD1	1.82	1.50
1:I:19:PHE:CE2	1:I:92:ILE:HG12	1.42	1.50
1:O:657:UNK:C	1:O:658:UNK:N	1.73	1.50
1:Q:19:PHE:CE2	1:Q:92:ILE:HG12	1.42	1.50
1:a:657:UNK:C	1:a:658:UNK:N	1.73	1.50
1:G:19:PHE:CE2	1:G:92:ILE:HG12	1.42	1.50
1:Q:371:ARG:CD	1:Q:389:ILE:HD11	1.37	1.50
1:U:327:ILE:HD13	1:U:341:TRP:CZ3	1.43	1.50
1:U:371:ARG:CD	1:U:389:ILE:CD1	1.82	1.50
1:Y:371:ARG:CD	1:Y:389:ILE:HD11	1.37	1.50
1:c:19:PHE:CE2	1:c:92:ILE:HG12	1.42	1.50
1:c:149:ILE:HG23	1:c:283:ILE:CG2	1.35	1.50
1:M:19:PHE:CE2	1:M:92:ILE:HG12	1.42	1.50
1:Y:19:PHE:CE2	1:Y:92:ILE:HG12	1.42	1.50
1:K:327:ILE:HD13	1:K:341:TRP:CZ3	1.43	1.50
1:O:340:ASN:HA	1:O:344:VAL:CB	1.33	1.49
1:e:327:ILE:HD13	1:e:341:TRP:CZ3	1.43	1.49
1:S:371:ARG:CD	1:S:389:ILE:CD1	1.82	1.49
1:G:371:ARG:CD	1:G:389:ILE:CD1	1.82	1.49
1:Q:327:ILE:HD13	1:Q:341:TRP:CZ3	1.43	1.49
1:Y:327:ILE:HD13	1:Y:341:TRP:CZ3	1.43	1.49
1:a:340:ASN:HA	1:a:344:VAL:CB	1.33	1.49
1:K:657:UNK:C	1:K:658:UNK:N	1.73	1.48
1:O:371:ARG:CD	1:O:389:ILE:HD11	1.37	1.48
1:Q:371:ARG:CB	1:Q:389:ILE:HD11	1.43	1.48
1:W:371:ARG:CB	1:W:389:ILE:HD11	1.43	1.48
1:Y:371:ARG:CB	1:Y:389:ILE:HD11	1.43	1.48
1:e:657:UNK:C	1:e:658:UNK:N	1.73	1.48
1:C:371:ARG:CB	1:C:389:ILE:HD11	1.43	1.48
1:I:327:ILE:HD13	1:I:341:TRP:CZ3	1.43	1.48
1:a:371:ARG:CD	1:a:389:ILE:HD11	1.37	1.48
1:c:371:ARG:CD	1:c:389:ILE:HD11	1.37	1.47
1:e:371:ARG:CB	1:e:389:ILE:HD11	1.43	1.47
1:A:327:ILE:HD13	1:A:341:TRP:CZ3	1.43	1.47
1:I:371:ARG:CD	1:I:389:ILE:CD1	1.82	1.47
1:K:371:ARG:CB	1:K:389:ILE:HD11	1.43	1.47
1:G:410:LEU:CB	1:G:423:PRO:HG2	0.99	1.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:371:ARG:CD	1:M:389:ILE:HD11	1.37	1.47
1:S:410:LEU:CB	1:S:423:PRO:HG2	0.99	1.47
1:W:410:LEU:CB	1:W:423:PRO:HG2	0.99	1.47
1:A:371:ARG:CD	1:A:389:ILE:CD1	1.82	1.47
1:C:410:LEU:CB	1:C:423:PRO:HG2	0.99	1.47
1:K:410:LEU:CB	1:K:423:PRO:HG2	0.99	1.47
1:O:371:ARG:CB	1:O:389:ILE:HD11	1.43	1.47
1:a:371:ARG:CB	1:a:389:ILE:HD11	1.43	1.47
1:e:410:LEU:CB	1:e:423:PRO:HG2	0.99	1.47
1:a:410:LEU:CB	1:a:423:PRO:HG2	0.99	1.47
1:G:371:ARG:CB	1:G:389:ILE:HD11	1.43	1.46
1:O:410:LEU:CB	1:O:423:PRO:HG2	0.99	1.46
1:Q:410:LEU:CB	1:Q:423:PRO:HG2	0.99	1.46
1:S:371:ARG:CB	1:S:389:ILE:HD11	1.43	1.46
1:U:371:ARG:CB	1:U:389:ILE:HD11	1.43	1.46
1:Y:410:LEU:CB	1:Y:423:PRO:HG2	0.99	1.46
1:A:410:LEU:CB	1:A:423:PRO:HG2	0.99	1.46
1:E:371:ARG:CB	1:E:389:ILE:HD11	1.43	1.46
1:I:410:LEU:CB	1:I:423:PRO:HG2	0.99	1.46
1:E:410:LEU:CB	1:E:423:PRO:HG2	0.99	1.45
1:Y:657:UNK:C	1:Y:658:UNK:N	1.73	1.45
1:M:371:ARG:CB	1:M:389:ILE:HD11	1.43	1.45
1:Q:657:UNK:C	1:Q:658:UNK:N	1.73	1.45
1:c:371:ARG:CB	1:c:389:ILE:HD11	1.43	1.45
1:U:410:LEU:CB	1:U:423:PRO:HG2	0.99	1.45
1:c:410:LEU:CB	1:c:423:PRO:HG2	0.99	1.44
1:M:410:LEU:CB	1:M:423:PRO:HG2	0.99	1.44
1:Y:218:LYS:O	1:Y:221:ILE:CG2	1.64	1.44
1:G:218:LYS:O	1:G:221:ILE:CG2	1.64	1.44
1:Q:218:LYS:O	1:Q:221:ILE:CG2	1.64	1.44
1:W:218:LYS:O	1:W:221:ILE:CG2	1.64	1.44
1:a:218:LYS:O	1:a:221:ILE:CG2	1.64	1.44
1:A:371:ARG:CB	1:A:389:ILE:HD11	1.43	1.44
1:C:218:LYS:O	1:C:221:ILE:CG2	1.64	1.44
1:E:218:LYS:O	1:E:221:ILE:CG2	1.64	1.44
1:I:218:LYS:O	1:I:221:ILE:CG2	1.64	1.44
1:Q:410:LEU:HB2	1:Q:423:PRO:CG	0.96	1.44
1:S:218:LYS:O	1:S:221:ILE:CG2	1.64	1.44
1:U:218:LYS:O	1:U:221:ILE:CG2	1.64	1.44
1:Y:410:LEU:HB2	1:Y:423:PRO:CG	0.96	1.44
1:C:410:LEU:HB2	1:C:423:PRO:CG	0.96	1.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:371:ARG:CB	1:I:389:ILE:HD11	1.43	1.43
1:I:657:UNK:C	1:I:658:UNK:N	1.73	1.43
1:O:218:LYS:O	1:O:221:ILE:CG2	1.64	1.43
1:W:410:LEU:HB2	1:W:423:PRO:CG	0.96	1.43
1:A:218:LYS:O	1:A:221:ILE:CG2	1.64	1.43
1:M:192:VAL:CB	1:M:221:ILE:HD11	1.49	1.43
1:c:192:VAL:CB	1:c:221:ILE:HD11	1.49	1.43
1:c:218:LYS:O	1:c:221:ILE:CG2	1.64	1.43
1:A:192:VAL:CB	1:A:221:ILE:HD11	1.49	1.43
1:A:657:UNK:C	1:A:658:UNK:N	1.73	1.43
1:K:218:LYS:O	1:K:221:ILE:CG2	1.64	1.43
1:I:192:VAL:CB	1:I:221:ILE:HD11	1.49	1.43
1:M:218:LYS:O	1:M:221:ILE:CG2	1.64	1.43
1:O:410:LEU:HB2	1:O:423:PRO:CG	0.96	1.42
1:e:218:LYS:O	1:e:221:ILE:CG2	1.64	1.42
1:U:410:LEU:HB2	1:U:423:PRO:CG	0.96	1.42
1:a:410:LEU:HB2	1:a:423:PRO:CG	0.96	1.42
1:E:410:LEU:HB2	1:E:423:PRO:CG	0.96	1.42
1:E:657:UNK:C	1:E:658:UNK:N	1.73	1.42
1:S:279:THR:HG21	1:U:118:GLN:NE2	1.35	1.42
1:E:118:GLN:NE2	1:G:279:THR:HG21	1.35	1.41
1:O:118:GLN:NE2	1:Q:279:THR:HG21	1.35	1.41
1:U:657:UNK:C	1:U:658:UNK:N	1.73	1.41
1:A:410:LEU:HB2	1:A:423:PRO:CG	0.96	1.41
1:c:410:LEU:HB2	1:c:423:PRO:CG	0.96	1.41
1:A:118:GLN:NE2	1:e:279:THR:HG21	1.35	1.41
1:I:410:LEU:HB2	1:I:423:PRO:CG	0.96	1.41
1:K:192:VAL:CB	1:K:221:ILE:HD11	1.49	1.41
1:K:410:LEU:HB2	1:K:423:PRO:CG	0.96	1.41
1:M:410:LEU:HB2	1:M:423:PRO:CG	0.96	1.41
1:Y:279:THR:HG21	1:a:118:GLN:NE2	1.35	1.41
1:e:410:LEU:HB2	1:e:423:PRO:CG	0.96	1.41
1:I:118:GLN:NE2	1:K:279:THR:HG21	1.35	1.41
1:Q:192:VAL:CB	1:Q:221:ILE:HD11	1.49	1.41
1:S:410:LEU:HB2	1:S:423:PRO:CG	0.96	1.41
1:Y:192:VAL:CB	1:Y:221:ILE:HD11	1.49	1.41
1:G:192:VAL:CB	1:G:221:ILE:HD11	1.49	1.41
1:G:410:LEU:HB2	1:G:423:PRO:CG	0.96	1.41
1:K:118:GLN:NE2	1:M:279:THR:HG21	1.35	1.41
1:e:192:VAL:CB	1:e:221:ILE:HD11	1.49	1.41
1:M:410:LEU:CD1	1:M:423:PRO:CD	1.99	1.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:657:UNK:C	1:C:658:UNK:N	1.73	1.40
1:E:192:VAL:CB	1:E:221:ILE:HD11	1.49	1.40
1:G:657:UNK:C	1:G:658:UNK:N	1.73	1.40
1:O:410:LEU:CD1	1:O:423:PRO:CD	1.99	1.40
1:S:192:VAL:CB	1:S:221:ILE:HD11	1.49	1.40
1:U:192:VAL:CB	1:U:221:ILE:HD11	1.49	1.40
1:c:279:THR:HG21	1:e:118:GLN:NE2	1.35	1.40
1:c:410:LEU:CD1	1:c:423:PRO:CD	1.99	1.40
1:a:410:LEU:CD1	1:a:423:PRO:CD	1.99	1.40
1:K:410:LEU:CD1	1:K:423:PRO:CD	1.99	1.40
1:S:657:UNK:C	1:S:658:UNK:N	1.73	1.40
1:e:410:LEU:CD1	1:e:423:PRO:CD	1.99	1.40
1:W:657:UNK:C	1:W:658:UNK:N	1.73	1.40
1:K:19:PHE:CZ	1:K:92:ILE:HG12	1.57	1.39
1:O:192:VAL:CB	1:O:221:ILE:HD11	1.49	1.39
1:e:19:PHE:CZ	1:e:92:ILE:HG12	1.57	1.39
1:E:410:LEU:CD1	1:E:423:PRO:CD	1.99	1.39
1:U:410:LEU:CD1	1:U:423:PRO:CD	1.99	1.39
1:a:192:VAL:CB	1:a:221:ILE:HD11	1.49	1.39
1:W:279:THR:HG21	1:Y:118:GLN:NE2	1.35	1.39
1:G:19:PHE:CZ	1:G:92:ILE:HG12	1.57	1.38
1:Q:410:LEU:CD1	1:Q:423:PRO:CD	1.99	1.38
1:S:357:LEU:CD1	1:S:430:LYS:HZ1	1.35	1.38
1:a:279:THR:HG21	1:c:118:GLN:NE2	1.35	1.38
1:C:279:THR:HG21	1:Q:118:GLN:NE2	1.35	1.38
1:S:19:PHE:CZ	1:S:92:ILE:HG12	1.57	1.38
1:S:410:LEU:CD1	1:S:423:PRO:CD	1.99	1.38
1:G:410:LEU:CD1	1:G:423:PRO:CD	1.99	1.38
1:Y:410:LEU:CD1	1:Y:423:PRO:CD	1.99	1.38
1:C:118:GLN:NE2	1:E:279:THR:HG21	1.35	1.38
1:C:192:VAL:CB	1:C:221:ILE:HD11	1.49	1.38
1:G:357:LEU:CD1	1:G:430:LYS:HZ1	1.36	1.38
1:M:118:GLN:NE2	1:O:279:THR:HG21	1.35	1.38
1:W:192:VAL:CB	1:W:221:ILE:HD11	1.49	1.38
1:A:19:PHE:CZ	1:A:92:ILE:HG12	1.57	1.38
1:G:118:GLN:NE2	1:I:279:THR:HG21	1.35	1.37
1:I:19:PHE:CZ	1:I:92:ILE:HG12	1.57	1.37
1:M:410:LEU:HD13	1:M:423:PRO:CD	1.55	1.37
1:U:279:THR:HG21	1:W:118:GLN:NE2	1.35	1.37
1:c:87:PHE:HE2	2:d:83:GLY:N	1.21	1.37
1:c:410:LEU:HD13	1:c:423:PRO:CD	1.55	1.37

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:138:LEU:HD23	1:A:170:VAL:CG1	1.53	1.37
1:C:369:PHE:HZ	1:C:410:LEU:CG	1.38	1.37
1:M:87:PHE:HE2	2:N:83:GLY:N	1.21	1.37
1:O:19:PHE:CZ	1:O:92:ILE:HG12	1.57	1.37
1:W:369:PHE:HZ	1:W:410:LEU:CG	1.38	1.37
1:a:19:PHE:CZ	1:a:92:ILE:HG12	1.57	1.37
1:A:279:THR:HG21	1:S:118:GLN:NE2	1.35	1.37
1:I:138:LEU:HD23	1:I:170:VAL:CG1	1.53	1.37
1:O:357:LEU:CD1	1:O:430:LYS:HZ1	1.35	1.37
1:Q:11:GLN:OE1	1:Q:70:GLU:HG3	1.19	1.37
1:Y:11:GLN:OE1	1:Y:70:GLU:HG3	1.19	1.37
1:Y:138:LEU:HD23	1:Y:170:VAL:CG1	1.53	1.37
1:a:138:LEU:HD23	1:a:170:VAL:CG1	1.53	1.37
1:C:87:PHE:HE2	2:D:83:GLY:N	1.21	1.37
1:E:357:LEU:CD1	1:E:430:LYS:HZ1	1.38	1.37
1:G:369:PHE:HZ	1:G:410:LEU:CG	1.38	1.37
1:O:138:LEU:HD23	1:O:170:VAL:CG1	1.53	1.37
1:Q:138:LEU:HD23	1:Q:170:VAL:CG1	1.53	1.37
1:S:369:PHE:HZ	1:S:410:LEU:CG	1.38	1.37
1:U:357:LEU:CD1	1:U:430:LYS:HZ1	1.38	1.37
1:M:19:PHE:CZ	1:M:92:ILE:HG12	1.57	1.36
1:U:19:PHE:CZ	1:U:92:ILE:HG12	1.57	1.36
1:a:357:LEU:CD1	1:a:430:LYS:HZ1	1.35	1.36
1:E:19:PHE:CZ	1:E:92:ILE:HG12	1.57	1.36
2:H:57:GLY:C	2:H:59:PRO:HD2	1.50	1.36
1:K:87:PHE:HE2	2:L:83:GLY:N	1.21	1.36
1:S:138:LEU:HD23	1:S:170:VAL:CG1	1.53	1.36
1:U:518:LEU:HD21	1:U:646:UNK:O	1.25	1.36
1:W:87:PHE:HE2	2:X:83:GLY:N	1.21	1.36
1:W:410:LEU:CD1	1:W:423:PRO:CD	1.99	1.36
2:Z:57:GLY:C	2:Z:59:PRO:HD2	1.50	1.36
1:c:138:LEU:HD23	1:c:170:VAL:CG1	1.53	1.36
1:e:87:PHE:HE2	2:f:83:GLY:N	1.21	1.36
1:A:410:LEU:CD1	1:A:423:PRO:CD	1.99	1.36
1:C:19:PHE:CZ	1:C:92:ILE:HG12	1.57	1.36
1:G:138:LEU:HD23	1:G:170:VAL:CG1	1.53	1.36
1:M:138:LEU:HD23	1:M:170:VAL:CG1	1.53	1.36
1:Q:369:PHE:HZ	1:Q:410:LEU:CG	1.38	1.36
2:T:57:GLY:C	2:T:59:PRO:HD2	1.50	1.36
1:W:138:LEU:HD23	1:W:170:VAL:CG1	1.53	1.36
1:a:369:PHE:HZ	1:a:410:LEU:CG	1.38	1.36

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:b:57:GLY:C	2:b:59:PRO:HD2	1.50	1.36
1:c:19:PHE:CZ	1:c:92:ILE:HG12	1.57	1.36
1:C:138:LEU:HD23	1:C:170:VAL:CG1	1.53	1.36
1:C:410:LEU:CD1	1:C:423:PRO:CD	1.99	1.36
2:F:57:GLY:C	2:F:59:PRO:HD2	1.50	1.36
1:I:410:LEU:CD1	1:I:423:PRO:CD	1.99	1.36
1:K:138:LEU:HD23	1:K:170:VAL:CG1	1.53	1.36
1:O:369:PHE:HZ	1:O:410:LEU:CG	1.38	1.36
2:P:57:GLY:C	2:P:59:PRO:HD2	1.50	1.36
2:R:57:GLY:C	2:R:59:PRO:HD2	1.50	1.36
1:W:19:PHE:CZ	1:W:92:ILE:HG12	1.57	1.36
1:Y:369:PHE:HZ	1:Y:410:LEU:CG	1.38	1.36
1:e:138:LEU:HD23	1:e:170:VAL:CG1	1.53	1.36
1:E:87:PHE:HE2	2:F:83:GLY:N	1.21	1.36
1:E:518:LEU:HD21	1:E:646:UNK:O	1.25	1.36
1:U:87:PHE:HE2	2:V:83:GLY:N	1.21	1.36
2:V:57:GLY:C	2:V:59:PRO:HD2	1.50	1.36
1:a:87:PHE:HE2	2:b:83:GLY:N	1.21	1.36
1:Q:19:PHE:CZ	1:Q:92:ILE:HG12	1.57	1.35
1:e:369:PHE:HZ	1:e:410:LEU:CG	1.38	1.35
2:J:57:GLY:C	2:J:59:PRO:HD2	1.50	1.35
1:K:369:PHE:HZ	1:K:410:LEU:CG	1.38	1.35
1:M:369:PHE:HZ	1:M:410:LEU:CG	1.38	1.35
2:B:57:GLY:C	2:B:59:PRO:HD2	1.50	1.35
1:O:87:PHE:HE2	2:P:83:GLY:N	1.21	1.35
1:Q:87:PHE:HE2	2:R:83:GLY:N	1.21	1.35
1:Y:19:PHE:CZ	1:Y:92:ILE:HG12	1.57	1.35
1:c:369:PHE:HZ	1:c:410:LEU:CG	1.38	1.35
1:A:87:PHE:HE2	2:B:83:GLY:N	1.21	1.35
1:I:87:PHE:HE2	2:J:83:GLY:N	1.21	1.35
1:K:410:LEU:HD13	1:K:423:PRO:CD	1.55	1.35
2:N:57:GLY:C	2:N:59:PRO:HD2	1.50	1.35
1:W:357:LEU:CD1	1:W:430:LYS:HZ1	1.39	1.35
2:d:57:GLY:C	2:d:59:PRO:HD2	1.50	1.35
1:e:11:GLN:OE1	1:e:70:GLU:HG3	1.19	1.35
1:G:87:PHE:HE2	2:H:83:GLY:N	1.21	1.35
1:K:11:GLN:OE1	1:K:70:GLU:HG3	1.19	1.35
1:U:369:PHE:HZ	1:U:410:LEU:CG	1.38	1.35
1:Y:87:PHE:HE2	2:Z:83:GLY:N	1.21	1.35
1:S:87:PHE:HE2	2:T:83:GLY:N	1.21	1.34
1:e:410:LEU:HD13	1:e:423:PRO:CD	1.55	1.34

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:369:PHE:HZ	1:E:410:LEU:CG	1.38	1.34
2:L:57:GLY:C	2:L:59:PRO:HD2	1.50	1.34
2:f:57:GLY:C	2:f:59:PRO:HD2	1.50	1.34
1:G:11:GLN:OE1	1:G:70:GLU:HG3	1.19	1.34
2:X:57:GLY:C	2:X:59:PRO:HD2	1.50	1.34
1:A:369:PHE:HZ	1:A:410:LEU:CG	1.38	1.34
1:U:138:LEU:HD23	1:U:170:VAL:CG1	1.53	1.34
1:c:357:LEU:CD1	1:c:430:LYS:HZ1	1.39	1.34
2:D:57:GLY:C	2:D:59:PRO:HD2	1.50	1.34
1:E:138:LEU:HD23	1:E:170:VAL:CG1	1.53	1.34
1:M:371:ARG:HB3	1:M:389:ILE:CD1	1.58	1.34
1:c:371:ARG:HB3	1:c:389:ILE:CD1	1.58	1.34
1:I:369:PHE:HZ	1:I:410:LEU:CG	1.38	1.33
1:K:371:ARG:HB3	1:K:389:ILE:CD1	1.58	1.33
1:S:11:GLN:OE1	1:S:70:GLU:HG3	1.19	1.33
1:W:36:PRO:O	1:W:39:ILE:HG22	1.24	1.33
1:E:410:LEU:HD13	1:E:423:PRO:CD	1.55	1.33
1:U:410:LEU:HD13	1:U:423:PRO:CD	1.55	1.33
1:e:371:ARG:HB3	1:e:389:ILE:CD1	1.58	1.33
1:E:36:PRO:O	1:E:39:ILE:HG22	1.24	1.33
1:G:410:LEU:HB2	1:G:423:PRO:CD	1.59	1.33
1:Q:192:VAL:HB	1:Q:221:ILE:CD1	1.59	1.33
1:S:192:VAL:HB	1:S:221:ILE:CD1	1.59	1.33
1:S:410:LEU:HB2	1:S:423:PRO:CD	1.59	1.33
1:C:36:PRO:O	1:C:39:ILE:HG22	1.24	1.33
1:G:192:VAL:HB	1:G:221:ILE:CD1	1.59	1.33
1:W:410:LEU:HD13	1:W:423:PRO:CD	1.55	1.33
1:Y:192:VAL:HB	1:Y:221:ILE:CD1	1.59	1.33
1:A:340:ASN:CA	1:A:344:VAL:CB	2.07	1.33
1:C:410:LEU:HD13	1:C:423:PRO:CD	1.55	1.33
1:G:183:LEU:CD2	1:G:186:CYS:SG	2.17	1.33
1:S:183:LEU:CD2	1:S:186:CYS:SG	2.17	1.33
1:W:192:VAL:HB	1:W:221:ILE:CD1	1.59	1.33
1:Y:183:LEU:CD2	1:Y:186:CYS:SG	2.17	1.33
1:C:192:VAL:HB	1:C:221:ILE:CD1	1.59	1.32
1:E:192:VAL:HB	1:E:221:ILE:CD1	1.59	1.32
1:E:360:LEU:CD1	1:E:405:LEU:HD21	1.59	1.32
1:I:340:ASN:CA	1:I:344:VAL:CB	2.07	1.32
1:K:340:ASN:CA	1:K:344:VAL:CB	2.07	1.32
1:M:365:TYR:OH	1:M:404:LYS:HG2	1.28	1.32
1:O:340:ASN:CA	1:O:344:VAL:CB	2.07	1.32

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Q:183:LEU:CD2	1:Q:186:CYS:SG	2.17	1.32
1:U:360:LEU:CD1	1:U:405:LEU:HD21	1.59	1.32
1:a:371:ARG:HB3	1:a:389:ILE:CD1	1.58	1.32
1:e:340:ASN:CA	1:e:344:VAL:CB	2.07	1.32
1:e:410:LEU:HB2	1:e:423:PRO:CD	1.59	1.32
1:A:360:LEU:CD1	1:A:405:LEU:HD21	1.59	1.32
1:K:360:LEU:CD1	1:K:405:LEU:HD21	1.59	1.32
1:K:410:LEU:HB2	1:K:423:PRO:CD	1.59	1.32
1:M:340:ASN:CA	1:M:344:VAL:CB	2.07	1.32
1:O:371:ARG:HB3	1:O:389:ILE:CD1	1.58	1.32
1:S:371:ARG:HB3	1:S:389:ILE:CD1	1.58	1.32
1:U:36:PRO:O	1:U:39:ILE:HG22	1.24	1.32
1:U:192:VAL:HB	1:U:221:ILE:CD1	1.59	1.32
1:a:340:ASN:CA	1:a:344:VAL:CB	2.07	1.32
1:c:340:ASN:CA	1:c:344:VAL:CB	2.07	1.32
1:e:360:LEU:CD1	1:e:405:LEU:HD21	1.59	1.32
1:G:371:ARG:HB3	1:G:389:ILE:CD1	1.58	1.32
1:I:360:LEU:CD1	1:I:405:LEU:HD21	1.59	1.32
1:M:183:LEU:CD2	1:M:186:CYS:SG	2.17	1.32
1:M:192:VAL:HB	1:M:221:ILE:CD1	1.59	1.32
1:Q:518:LEU:HD21	1:Q:646:UNK:O	1.25	1.32
1:U:11:GLN:OE1	1:U:70:GLU:HG3	1.19	1.32
1:a:192:VAL:HB	1:a:221:ILE:CD1	1.59	1.32
1:c:183:LEU:CD2	1:c:186:CYS:SG	2.17	1.32
1:c:365:TYR:OH	1:c:404:LYS:HG2	1.28	1.32
1:K:365:TYR:OH	1:K:404:LYS:HG2	1.28	1.32
1:O:192:VAL:HB	1:O:221:ILE:CD1	1.59	1.32
1:U:371:ARG:HB3	1:U:389:ILE:CD1	1.58	1.32
1:Y:518:LEU:HD21	1:Y:646:UNK:O	1.25	1.32
1:c:192:VAL:HB	1:c:221:ILE:CD1	1.59	1.32
1:C:410:LEU:HB2	1:C:423:PRO:CD	1.59	1.32
1:E:371:ARG:HB3	1:E:389:ILE:CD1	1.58	1.32
1:G:365:TYR:OH	1:G:404:LYS:HG2	1.28	1.32
1:I:192:VAL:HB	1:I:221:ILE:CD1	1.59	1.32
1:I:365:TYR:OH	1:I:404:LYS:HG2	1.28	1.32
1:O:410:LEU:HD13	1:O:423:PRO:CD	1.55	1.32
1:W:410:LEU:HB2	1:W:423:PRO:CD	1.59	1.32
1:Y:365:TYR:HD1	1:Y:405:LEU:CD2	1.42	1.32
1:e:183:LEU:CD2	1:e:186:CYS:SG	2.17	1.32
1:e:192:VAL:HB	1:e:221:ILE:CD1	1.59	1.32
1:A:192:VAL:HB	1:A:221:ILE:CD1	1.59	1.31

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:11:GLN:OE1	1:E:70:GLU:HG3	1.19	1.31
1:E:183:LEU:CD2	1:E:186:CYS:SG	2.17	1.31
1:K:192:VAL:HB	1:K:221:ILE:CD1	1.59	1.31
1:O:183:LEU:CD2	1:O:186:CYS:SG	2.17	1.31
1:Q:340:ASN:CA	1:Q:344:VAL:CB	2.07	1.31
1:Q:365:TYR:HD1	1:Q:405:LEU:CD2	1.42	1.31
1:S:340:ASN:CA	1:S:344:VAL:CB	2.07	1.31
1:G:340:ASN:CA	1:G:344:VAL:CB	2.07	1.31
1:G:518:LEU:HD21	1:G:646:UNK:O	1.25	1.31
1:I:371:ARG:HB3	1:I:389:ILE:CD1	1.58	1.31
1:K:183:LEU:CD2	1:K:186:CYS:SG	2.17	1.31
1:M:11:GLN:OE1	1:M:70:GLU:HG3	1.19	1.31
1:O:357:LEU:HD13	1:O:366:ARG:CD	1.61	1.31
1:O:365:TYR:HD1	1:O:405:LEU:CD2	1.42	1.31
1:O:365:TYR:OH	1:O:404:LYS:HG2	1.28	1.31
1:Q:357:LEU:HD13	1:Q:366:ARG:CD	1.61	1.31
1:Q:371:ARG:HB3	1:Q:389:ILE:CD1	1.58	1.31
1:S:36:PRO:O	1:S:39:ILE:HG22	1.24	1.31
1:Y:340:ASN:CA	1:Y:344:VAL:CB	2.07	1.31
1:Y:357:LEU:HD13	1:Y:366:ARG:CD	1.61	1.31
1:Y:371:ARG:HB3	1:Y:389:ILE:CD1	1.58	1.31
1:a:365:TYR:HD1	1:a:405:LEU:CD2	1.42	1.31
1:a:365:TYR:OH	1:a:404:LYS:HG2	1.28	1.31
1:a:410:LEU:HD13	1:a:423:PRO:CD	1.55	1.31
1:e:365:TYR:OH	1:e:404:LYS:HG2	1.28	1.31
1:A:365:TYR:OH	1:A:404:LYS:HG2	1.28	1.31
1:A:371:ARG:HB3	1:A:389:ILE:CD1	1.58	1.31
1:G:360:LEU:CD1	1:G:405:LEU:HD21	1.59	1.31
1:I:183:LEU:CD2	1:I:186:CYS:SG	2.17	1.31
1:I:365:TYR:HD1	1:I:405:LEU:CD2	1.42	1.31
1:K:365:TYR:HD1	1:K:405:LEU:CD2	1.42	1.31
1:S:357:LEU:HD13	1:S:366:ARG:CD	1.61	1.31
1:S:365:TYR:OH	1:S:404:LYS:HG2	1.28	1.31
1:U:183:LEU:CD2	1:U:186:CYS:SG	2.17	1.31
1:W:365:TYR:HD1	1:W:405:LEU:CD2	1.42	1.31
1:W:371:ARG:HB3	1:W:389:ILE:CD1	1.58	1.31
1:a:183:LEU:CD2	1:a:186:CYS:SG	2.17	1.31
1:a:357:LEU:HD13	1:a:366:ARG:CD	1.61	1.31
1:A:365:TYR:HD1	1:A:405:LEU:CD2	1.42	1.31
1:C:357:LEU:HD13	1:C:366:ARG:CD	1.61	1.31
1:C:365:TYR:HD1	1:C:405:LEU:CD2	1.42	1.31

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:371:ARG:HB3	1:C:389:ILE:CD1	1.58	1.31
1:C:785:UNK:O	1:C:819:UNK:CB	1.79	1.31
1:E:357:LEU:HD13	1:E:366:ARG:CD	1.61	1.31
1:G:357:LEU:HD13	1:G:366:ARG:CD	1.61	1.31
1:G:365:TYR:HD1	1:G:405:LEU:CD2	1.42	1.31
1:G:410:LEU:HD13	1:G:423:PRO:CD	1.55	1.31
1:M:365:TYR:HD1	1:M:405:LEU:CD2	1.42	1.31
1:M:369:PHE:CZ	1:M:410:LEU:HG	1.65	1.31
1:S:360:LEU:CD1	1:S:405:LEU:HD21	1.59	1.31
1:U:357:LEU:HD13	1:U:366:ARG:CD	1.61	1.31
1:W:357:LEU:HD13	1:W:366:ARG:CD	1.61	1.31
1:W:785:UNK:O	1:W:819:UNK:CB	1.79	1.31
1:c:365:TYR:HD1	1:c:405:LEU:CD2	1.42	1.31
1:c:369:PHE:CZ	1:c:410:LEU:HG	1.65	1.31
1:e:365:TYR:HD1	1:e:405:LEU:CD2	1.42	1.31
1:e:369:PHE:CZ	1:e:410:LEU:HG	1.65	1.31
1:A:357:LEU:HD13	1:A:366:ARG:CD	1.61	1.31
1:G:36:PRO:O	1:G:39:ILE:HG22	1.24	1.31
1:K:369:PHE:CZ	1:K:410:LEU:HG	1.65	1.31
1:Q:785:UNK:O	1:Q:819:UNK:CB	1.79	1.31
1:S:365:TYR:HD1	1:S:405:LEU:CD2	1.42	1.31
1:S:410:LEU:HD13	1:S:423:PRO:CD	1.55	1.31
1:U:410:LEU:HB2	1:U:423:PRO:CD	1.59	1.31
1:Y:785:UNK:O	1:Y:819:UNK:CB	1.79	1.31
1:A:183:LEU:CD2	1:A:186:CYS:SG	2.17	1.30
1:I:357:LEU:HD13	1:I:366:ARG:CD	1.61	1.30
1:I:410:LEU:HB2	1:I:423:PRO:CD	1.59	1.30
1:O:360:LEU:CD1	1:O:405:LEU:HD21	1.59	1.30
1:S:518:LEU:HD21	1:S:646:UNK:O	1.25	1.30
1:a:11:GLN:OE1	1:a:70:GLU:HG3	1.19	1.30
1:a:360:LEU:CD1	1:a:405:LEU:HD21	1.59	1.30
1:c:11:GLN:OE1	1:c:70:GLU:HG3	1.19	1.30
1:A:410:LEU:HB2	1:A:423:PRO:CD	1.59	1.30
1:E:410:LEU:HB2	1:E:423:PRO:CD	1.59	1.30
1:O:410:LEU:HB2	1:O:423:PRO:CD	1.59	1.30
1:W:360:LEU:CD1	1:W:405:LEU:HD21	1.59	1.30
1:a:410:LEU:HB2	1:a:423:PRO:CD	1.59	1.30
1:e:785:UNK:O	1:e:819:UNK:CB	1.79	1.30
1:A:369:PHE:CZ	1:A:410:LEU:HG	1.65	1.30
1:C:360:LEU:CD1	1:C:405:LEU:HD21	1.59	1.30
1:E:785:UNK:O	1:E:819:UNK:CB	1.79	1.30

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:785:UNK:O	1:K:819:UNK:CB	1.79	1.30
1:M:357:LEU:HD13	1:M:366:ARG:CD	1.61	1.30
1:Q:410:LEU:HB2	1:Q:423:PRO:CD	1.59	1.30
1:U:365:TYR:HD1	1:U:405:LEU:CD2	1.42	1.30
1:W:183:LEU:CD2	1:W:186:CYS:SG	2.17	1.30
1:E:365:TYR:HD1	1:E:405:LEU:CD2	1.42	1.30
1:E:369:PHE:CZ	1:E:410:LEU:HG	1.65	1.30
1:I:369:PHE:CZ	1:I:410:LEU:HG	1.65	1.30
1:I:410:LEU:HD13	1:I:423:PRO:CD	1.55	1.30
1:O:785:UNK:O	1:O:819:UNK:CB	1.79	1.30
1:Q:203:ILE:HG23	1:Q:237:TYR:OH	1.27	1.30
1:Q:360:LEU:CD1	1:Q:405:LEU:HD21	1.59	1.30
1:U:785:UNK:O	1:U:819:UNK:CB	1.79	1.30
1:Y:410:LEU:HB2	1:Y:423:PRO:CD	1.59	1.30
1:Y:410:LEU:HD13	1:Y:423:PRO:CD	1.55	1.30
1:Y:518:LEU:HD22	1:Y:646:UNK:CB	1.60	1.30
1:a:785:UNK:O	1:a:819:UNK:CB	1.79	1.30
1:c:357:LEU:HD13	1:c:366:ARG:CD	1.61	1.30
1:c:785:UNK:O	1:c:819:UNK:CB	1.79	1.30
1:A:518:LEU:HD21	1:A:646:UNK:O	1.25	1.30
1:A:785:UNK:O	1:A:819:UNK:CB	1.79	1.30
1:I:36:PRO:O	1:I:39:ILE:HG22	1.24	1.30
1:M:785:UNK:O	1:M:819:UNK:CB	1.79	1.30
1:O:11:GLN:OE1	1:O:70:GLU:HG3	1.19	1.30
1:Q:518:LEU:HD22	1:Q:646:UNK:CB	1.60	1.30
1:U:340:ASN:CA	1:U:344:VAL:CB	2.07	1.30
1:U:369:PHE:CZ	1:U:410:LEU:HG	1.65	1.30
1:W:279:THR:O	1:W:280:THR:HG22	1.32	1.30
1:Y:203:ILE:HG23	1:Y:237:TYR:OH	1.27	1.30
1:Y:360:LEU:CD1	1:Y:405:LEU:HD21	1.59	1.30
1:A:410:LEU:HD13	1:A:423:PRO:CD	1.55	1.29
1:C:183:LEU:CD2	1:C:186:CYS:SG	2.17	1.29
1:C:279:THR:O	1:C:280:THR:HG22	1.32	1.29
1:C:369:PHE:CZ	1:C:410:LEU:HG	1.65	1.29
1:E:340:ASN:CA	1:E:344:VAL:CB	2.07	1.29
1:I:785:UNK:O	1:I:819:UNK:CB	1.79	1.29
1:K:518:LEU:HD22	1:K:646:UNK:CB	1.60	1.29
1:M:518:LEU:HD22	1:M:646:UNK:CB	1.60	1.29
1:Q:36:PRO:O	1:Q:39:ILE:HG22	1.24	1.29
1:Q:369:PHE:CZ	1:Q:410:LEU:HG	1.65	1.29
1:Q:410:LEU:HD13	1:Q:423:PRO:CD	1.55	1.29

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:S:518:LEU:HD22	1:S:646:UNK:CB	1.60	1.29
1:W:369:PHE:CZ	1:W:410:LEU:HG	1.65	1.29
1:c:518:LEU:HD22	1:c:646:UNK:CB	1.60	1.29
1:A:36:PRO:O	1:A:39:ILE:HG22	1.24	1.29
1:C:340:ASN:CA	1:C:344:VAL:CB	2.07	1.29
1:C:410:LEU:CB	1:C:426:TYR:CE1	2.15	1.29
1:E:365:TYR:OH	1:E:404:LYS:HG2	1.28	1.29
1:G:518:LEU:HD22	1:G:646:UNK:CB	1.60	1.29
1:S:203:ILE:HG23	1:S:237:TYR:OH	1.28	1.29
1:U:410:LEU:CB	1:U:426:TYR:CE1	2.15	1.29
1:W:410:LEU:CB	1:W:426:TYR:CE1	2.15	1.29
1:Y:369:PHE:CZ	1:Y:410:LEU:HG	1.65	1.29
1:e:518:LEU:HD22	1:e:646:UNK:CB	1.60	1.29
1:E:410:LEU:CB	1:E:426:TYR:CE1	2.15	1.29
1:G:203:ILE:HG23	1:G:237:TYR:OH	1.28	1.29
1:G:410:LEU:CB	1:G:426:TYR:HE1	1.46	1.29
1:I:518:LEU:HD21	1:I:646:UNK:O	1.25	1.29
1:O:369:PHE:CZ	1:O:410:LEU:HG	1.65	1.29
1:S:410:LEU:CB	1:S:426:TYR:HE1	1.46	1.29
1:E:518:LEU:HD22	1:E:646:UNK:CB	1.60	1.29
1:G:369:PHE:CZ	1:G:410:LEU:HG	1.65	1.29
1:M:410:LEU:HB2	1:M:423:PRO:CD	1.59	1.29
1:O:518:LEU:HD22	1:O:646:UNK:CB	1.60	1.29
1:U:518:LEU:HD22	1:U:646:UNK:CB	1.60	1.29
1:W:340:ASN:CA	1:W:344:VAL:CB	2.07	1.29
1:Y:279:THR:O	1:Y:280:THR:HG22	1.32	1.29
1:a:369:PHE:CZ	1:a:410:LEU:HG	1.65	1.29
1:c:360:LEU:CD1	1:c:405:LEU:HD21	1.59	1.29
1:e:357:LEU:HD13	1:e:366:ARG:CD	1.61	1.29
1:A:11:GLN:OE1	1:A:70:GLU:HG3	1.19	1.29
1:C:518:LEU:HD22	1:C:646:UNK:CB	1.60	1.29
1:G:785:UNK:O	1:G:819:UNK:CB	1.79	1.29
1:M:360:LEU:CD1	1:M:405:LEU:HD21	1.59	1.29
1:Q:192:VAL:CG2	1:Q:221:ILE:CD1	2.11	1.29
1:S:369:PHE:CZ	1:S:410:LEU:HG	1.65	1.29
1:U:365:TYR:OH	1:U:404:LYS:HG2	1.28	1.29
1:Y:36:PRO:O	1:Y:39:ILE:HG22	1.24	1.29
1:Y:192:VAL:CG2	1:Y:221:ILE:CD1	2.11	1.29
1:a:518:LEU:HD22	1:a:646:UNK:CB	1.60	1.29
1:c:410:LEU:HB2	1:c:423:PRO:CD	1.59	1.29
1:A:518:LEU:HD22	1:A:646:UNK:CB	1.60	1.28

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:11:GLN:OE1	1:C:70:GLU:HG3	1.19	1.28
1:C:118:GLN:O	1:C:121:ALA:N	1.66	1.28
1:E:192:VAL:CG2	1:E:221:ILE:CD1	2.11	1.28
1:K:357:LEU:HD13	1:K:366:ARG:CD	1.61	1.28
1:Q:279:THR:O	1:Q:280:THR:HG22	1.32	1.28
1:S:785:UNK:O	1:S:819:UNK:CB	1.79	1.28
1:U:192:VAL:CG2	1:U:221:ILE:CD1	2.11	1.28
1:W:118:GLN:O	1:W:121:ALA:N	1.66	1.28
1:W:518:LEU:HD22	1:W:646:UNK:CB	1.60	1.28
1:Y:118:GLN:O	1:Y:121:ALA:N	1.66	1.28
1:Y:410:LEU:CB	1:Y:426:TYR:CE1	2.15	1.28
1:c:118:GLN:O	1:c:121:ALA:N	1.66	1.28
1:G:192:VAL:CG2	1:G:221:ILE:CD1	2.11	1.28
1:I:518:LEU:HD22	1:I:646:UNK:CB	1.60	1.28
1:M:118:GLN:O	1:M:121:ALA:N	1.66	1.28
1:O:118:GLN:O	1:O:121:ALA:N	1.66	1.28
1:Q:118:GLN:O	1:Q:121:ALA:N	1.66	1.28
1:Q:410:LEU:CB	1:Q:426:TYR:CE1	2.15	1.28
1:S:192:VAL:CG2	1:S:221:ILE:CD1	2.11	1.28
1:a:118:GLN:O	1:a:121:ALA:N	1.66	1.28
1:E:279:THR:O	1:E:280:THR:HG22	1.32	1.28
1:M:203:ILE:HG23	1:M:237:TYR:OH	1.27	1.28
1:U:203:ILE:HG23	1:U:237:TYR:OH	1.27	1.28
1:e:118:GLN:O	1:e:121:ALA:N	1.66	1.28
1:e:357:LEU:CD1	1:e:430:LYS:NZ	1.96	1.28
1:E:192:VAL:CB	1:E:221:ILE:CD1	2.12	1.28
1:E:203:ILE:HG23	1:E:237:TYR:OH	1.27	1.28
1:I:11:GLN:OE1	1:I:70:GLU:HG3	1.19	1.28
1:K:118:GLN:O	1:K:121:ALA:N	1.66	1.28
1:K:357:LEU:CD1	1:K:430:LYS:NZ	1.96	1.28
1:U:192:VAL:CB	1:U:221:ILE:CD1	2.12	1.28
1:U:279:THR:O	1:U:280:THR:HG22	1.32	1.28
1:U:410:LEU:CB	1:U:426:TYR:HE1	1.46	1.28
1:Y:357:LEU:CD1	1:Y:430:LYS:NZ	1.96	1.28
1:Y:365:TYR:OH	1:Y:404:LYS:HG2	1.28	1.28
1:a:36:PRO:O	1:a:39:ILE:HG22	1.24	1.28
1:a:203:ILE:HG23	1:a:237:TYR:OH	1.28	1.28
1:a:410:LEU:CB	1:a:426:TYR:CE1	2.15	1.28
1:c:410:LEU:CB	1:c:426:TYR:CE1	2.15	1.28
1:C:192:VAL:CB	1:C:221:ILE:CD1	2.12	1.28
1:E:410:LEU:CB	1:E:426:TYR:HE1	1.46	1.28

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:357:LEU:CD1	1:I:430:LYS:NZ	1.96	1.28
1:M:410:LEU:CB	1:M:426:TYR:CE1	2.15	1.28
1:M:410:LEU:CB	1:M:426:TYR:HE1	1.46	1.28
1:O:410:LEU:CG	1:O:423:PRO:HD2	1.64	1.28
1:Q:357:LEU:CD1	1:Q:430:LYS:NZ	1.96	1.28
1:Q:410:LEU:CB	1:Q:426:TYR:HE1	1.46	1.28
1:W:11:GLN:OE1	1:W:70:GLU:HG3	1.19	1.28
1:W:192:VAL:CB	1:W:221:ILE:CD1	2.12	1.28
1:Y:410:LEU:CB	1:Y:426:TYR:HE1	1.46	1.28
1:a:410:LEU:CG	1:a:423:PRO:HD2	1.64	1.28
1:A:357:LEU:CD1	1:A:430:LYS:NZ	1.96	1.27
1:M:410:LEU:CG	1:M:423:PRO:HD2	1.64	1.27
1:O:36:PRO:O	1:O:39:ILE:HG22	1.24	1.27
1:O:410:LEU:CB	1:O:426:TYR:CE1	2.15	1.27
1:Q:192:VAL:CB	1:Q:221:ILE:CD1	2.12	1.27
1:Q:365:TYR:OH	1:Q:404:LYS:HG2	1.28	1.27
1:c:203:ILE:HG23	1:c:237:TYR:OH	1.27	1.27
1:A:203:ILE:HG23	1:A:237:TYR:OH	1.27	1.27
1:E:118:GLN:O	1:E:121:ALA:N	1.66	1.27
1:E:357:LEU:CD1	1:E:430:LYS:NZ	1.96	1.27
1:I:203:ILE:HG23	1:I:237:TYR:OH	1.27	1.27
1:O:203:ILE:HG23	1:O:237:TYR:OH	1.28	1.27
1:U:118:GLN:O	1:U:121:ALA:N	1.66	1.27
1:U:357:LEU:CD1	1:U:430:LYS:NZ	1.96	1.27
1:Y:192:VAL:CB	1:Y:221:ILE:CD1	2.12	1.27
1:c:410:LEU:CG	1:c:423:PRO:HD2	1.64	1.27
1:A:192:VAL:CG2	1:A:221:ILE:CD1	2.11	1.27
1:G:357:LEU:CD1	1:G:430:LYS:NZ	1.96	1.27
1:K:410:LEU:CB	1:K:426:TYR:CE1	2.15	1.27
1:M:36:PRO:O	1:M:39:ILE:HG22	1.24	1.27
1:W:518:LEU:HD21	1:W:646:UNK:O	1.25	1.27
1:Y:410:LEU:CG	1:Y:423:PRO:HD2	1.64	1.27
1:c:36:PRO:O	1:c:39:ILE:HG22	1.24	1.27
1:c:518:LEU:HD21	1:c:646:UNK:O	1.25	1.27
1:e:410:LEU:CB	1:e:426:TYR:HE1	1.46	1.27
1:C:192:VAL:CG2	1:C:221:ILE:CD1	2.11	1.27
1:C:357:LEU:CD1	1:C:430:LYS:NZ	1.96	1.27
1:I:192:VAL:CG2	1:I:221:ILE:CD1	2.11	1.27
1:K:410:LEU:CB	1:K:426:TYR:HE1	1.46	1.27
1:M:518:LEU:HD21	1:M:646:UNK:O	1.25	1.27
1:Q:410:LEU:CG	1:Q:423:PRO:HD2	1.64	1.27

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:S:357:LEU:CD1	1:S:430:LYS:NZ	1.96	1.27
1:e:203:ILE:HG23	1:e:237:TYR:OH	1.28	1.27
1:e:410:LEU:CB	1:e:426:TYR:CE1	2.15	1.27
1:C:149:ILE:CG2	1:C:283:ILE:HG22	1.65	1.27
1:K:203:ILE:HG23	1:K:237:TYR:OH	1.28	1.27
1:M:192:VAL:CG2	1:M:221:ILE:CD1	2.11	1.27
1:W:149:ILE:CG2	1:W:283:ILE:HG22	1.65	1.27
1:W:192:VAL:CG2	1:W:221:ILE:CD1	2.11	1.27
1:c:192:VAL:CG2	1:c:221:ILE:CD1	2.11	1.27
1:K:410:LEU:CG	1:K:423:PRO:HD2	1.64	1.26
1:Q:149:ILE:CG2	1:Q:283:ILE:HG22	1.65	1.26
1:W:357:LEU:CD1	1:W:430:LYS:NZ	1.96	1.26
1:a:192:VAL:CG2	1:a:221:ILE:CD1	2.11	1.26
1:C:518:LEU:HD21	1:C:646:UNK:O	1.25	1.26
1:I:410:LEU:CB	1:I:426:TYR:CE1	2.15	1.26
1:O:192:VAL:CB	1:O:221:ILE:CD1	2.12	1.26
1:O:192:VAL:CG2	1:O:221:ILE:CD1	2.11	1.26
1:Y:149:ILE:CG2	1:Y:283:ILE:HG22	1.65	1.26
1:e:410:LEU:CG	1:e:423:PRO:HD2	1.64	1.26
1:a:192:VAL:CB	1:a:221:ILE:CD1	2.12	1.26
1:a:357:LEU:CD1	1:a:430:LYS:NZ	1.96	1.26
1:c:149:ILE:CG2	1:c:283:ILE:HG22	1.65	1.26
1:e:36:PRO:O	1:e:39:ILE:HG22	1.24	1.26
1:A:410:LEU:CB	1:A:426:TYR:CE1	2.15	1.26
1:E:149:ILE:CG2	1:E:283:ILE:HG22	1.65	1.26
1:Q:357:LEU:CD1	1:Q:430:LYS:HZ1	1.47	1.26
1:U:149:ILE:CG2	1:U:283:ILE:HG22	1.65	1.26
1:W:410:LEU:CG	1:W:423:PRO:HD2	1.64	1.26
1:A:87:PHE:CE2	2:B:83:GLY:CA	2.19	1.26
1:C:410:LEU:CG	1:C:423:PRO:HD2	1.64	1.26
1:I:87:PHE:CE2	2:J:83:GLY:CA	2.19	1.26
1:K:87:PHE:CE2	2:L:83:GLY:CA	2.19	1.26
1:K:149:ILE:CG2	1:K:283:ILE:HG22	1.65	1.26
1:K:192:VAL:CG2	1:K:221:ILE:CD1	2.11	1.26
1:K:518:LEU:HD21	1:K:646:UNK:O	1.25	1.26
1:M:149:ILE:CG2	1:M:283:ILE:HG22	1.65	1.26
1:Q:188:SER:O	1:Q:191:THR:HG23	1.36	1.26
1:Y:188:SER:O	1:Y:191:THR:HG23	1.36	1.26
1:e:87:PHE:CE2	2:f:83:GLY:CA	2.19	1.26
1:e:149:ILE:CG2	1:e:283:ILE:HG22	1.65	1.26
1:A:118:GLN:O	1:A:121:ALA:N	1.66	1.25

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:36:PRO:O	1:K:39:ILE:HG22	1.24	1.25
1:M:357:LEU:CD1	1:M:430:LYS:NZ	1.96	1.25
1:W:203:ILE:HG23	1:W:237:TYR:OH	1.28	1.25
1:a:279:THR:O	1:a:280:THR:HG22	1.32	1.25
1:e:192:VAL:CG2	1:e:221:ILE:CD1	2.11	1.25
1:C:203:ILE:HG23	1:C:237:TYR:OH	1.28	1.25
1:G:87:PHE:CE2	2:H:83:GLY:CA	2.19	1.25
1:G:118:GLN:O	1:G:121:ALA:N	1.66	1.25
1:S:87:PHE:CE2	2:T:83:GLY:CA	2.19	1.25
1:c:87:PHE:CE2	2:d:83:GLY:CA	2.19	1.25
1:A:149:ILE:CG2	1:A:283:ILE:HG22	1.65	1.25
1:E:188:SER:O	1:E:191:THR:HG23	1.36	1.25
1:G:149:ILE:CG2	1:G:283:ILE:HG22	1.65	1.25
1:G:410:LEU:CB	1:G:426:TYR:CE1	2.15	1.25
1:I:118:GLN:O	1:I:121:ALA:N	1.66	1.25
1:I:149:ILE:CG2	1:I:283:ILE:HG22	1.65	1.25
1:I:410:LEU:CG	1:I:423:PRO:HD2	1.64	1.25
1:M:87:PHE:CE2	2:N:83:GLY:CA	2.19	1.25
1:S:118:GLN:O	1:S:121:ALA:N	1.66	1.25
1:S:149:ILE:CG2	1:S:283:ILE:HG22	1.65	1.25
1:Y:357:LEU:CD1	1:Y:430:LYS:HZ1	1.48	1.25
1:c:357:LEU:CD1	1:c:430:LYS:NZ	1.96	1.25
1:O:279:THR:O	1:O:280:THR:HG22	1.32	1.25
1:U:188:SER:O	1:U:191:THR:HG23	1.36	1.25
1:e:518:LEU:HD21	1:e:646:UNK:O	1.25	1.25
1:A:410:LEU:CG	1:A:423:PRO:HD2	1.64	1.25
1:I:188:SER:O	1:I:191:THR:HG23	1.36	1.25
1:K:410:LEU:HB3	1:K:426:TYR:CD1	1.72	1.25
1:O:149:ILE:CG2	1:O:283:ILE:HG22	1.65	1.25
1:S:410:LEU:CB	1:S:426:TYR:CE1	2.15	1.25
1:a:149:ILE:CG2	1:a:283:ILE:HG22	1.65	1.25
1:e:410:LEU:HB3	1:e:426:TYR:CD1	1.72	1.25
1:A:188:SER:O	1:A:191:THR:HG23	1.36	1.25
1:C:410:LEU:HB3	1:C:426:TYR:CD1	1.72	1.25
1:M:357:LEU:HD12	1:M:430:LYS:NZ	1.52	1.25
1:O:357:LEU:CD1	1:O:430:LYS:NZ	1.96	1.25
1:W:410:LEU:HB3	1:W:426:TYR:CD1	1.72	1.25
1:a:410:LEU:CB	1:a:426:TYR:HE1	1.46	1.25
1:G:410:LEU:HB3	1:G:426:TYR:CD1	1.72	1.24
1:K:279:THR:O	1:K:280:THR:HG22	1.32	1.24
1:O:410:LEU:HB3	1:O:426:TYR:CD1	1.72	1.24

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:O:410:LEU:CB	1:O:426:TYR:HE1	1.46	1.24
1:O:518:LEU:HD21	1:O:646:UNK:O	1.25	1.24
1:S:410:LEU:HB3	1:S:426:TYR:CD1	1.72	1.24
1:U:410:LEU:CG	1:U:423:PRO:HD2	1.64	1.24
1:a:410:LEU:HB3	1:a:426:TYR:CD1	1.72	1.24
1:c:357:LEU:HD12	1:c:430:LYS:NZ	1.52	1.24
1:C:365:TYR:OH	1:C:404:LYS:HG2	1.28	1.24
1:M:188:SER:O	1:M:191:THR:HG23	1.36	1.24
1:Q:87:PHE:CE2	2:R:83:GLY:CA	2.19	1.24
1:S:360:LEU:HD12	1:S:405:LEU:CD2	1.68	1.24
1:Y:87:PHE:CE2	2:Z:83:GLY:CA	2.19	1.24
1:a:518:LEU:HD21	1:a:646:UNK:O	1.25	1.24
1:c:188:SER:O	1:c:191:THR:HG23	1.36	1.24
1:e:279:THR:O	1:e:280:THR:HG22	1.32	1.24
1:E:410:LEU:CG	1:E:423:PRO:HD2	1.64	1.24
1:G:360:LEU:HD12	1:G:405:LEU:CD2	1.68	1.24
1:G:410:LEU:CG	1:G:423:PRO:HD2	1.64	1.24
1:W:365:TYR:OH	1:W:404:LYS:HG2	1.28	1.24
1:A:410:LEU:CB	1:A:426:TYR:HE1	1.46	1.24
1:E:410:LEU:HB3	1:E:426:TYR:CD1	1.72	1.24
1:S:410:LEU:CG	1:S:423:PRO:HD2	1.64	1.24
1:W:410:LEU:CB	1:W:426:TYR:HE1	1.46	1.24
1:E:87:PHE:CE2	2:F:83:GLY:CA	2.19	1.24
1:c:410:LEU:CB	1:c:426:TYR:HE1	1.46	1.24
1:A:360:LEU:HG	1:A:365:TYR:CB	1.69	1.23
1:C:410:LEU:CB	1:C:426:TYR:HE1	1.46	1.23
1:I:410:LEU:CB	1:I:426:TYR:HE1	1.46	1.23
1:O:357:LEU:HD12	1:O:430:LYS:NZ	1.52	1.23
1:U:87:PHE:CE2	2:V:83:GLY:CA	2.19	1.23
1:U:410:LEU:HB3	1:U:426:TYR:CD1	1.72	1.23
1:A:269:LYS:O	1:A:273:ASP:HB2	1.06	1.23
1:A:360:LEU:CG	1:A:365:TYR:HB3	1.67	1.23
1:C:88:LEU:C	1:C:91:PRO:HD2	1.63	1.23
1:G:360:LEU:HG	1:G:365:TYR:CB	1.69	1.23
1:I:269:LYS:O	1:I:273:ASP:HB2	1.06	1.23
1:I:360:LEU:HG	1:I:365:TYR:CB	1.69	1.23
1:I:360:LEU:HD12	1:I:405:LEU:CD2	1.68	1.23
1:Q:410:LEU:HB3	1:Q:426:TYR:CD1	1.72	1.23
1:S:360:LEU:HG	1:S:365:TYR:CB	1.69	1.23
1:W:88:LEU:C	1:W:91:PRO:HD2	1.63	1.23
1:a:87:PHE:CE2	2:b:83:GLY:CA	2.19	1.23

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:a:357:LEU:HD12	1:a:430:LYS:NZ	1.52	1.23
1:A:360:LEU:HD12	1:A:405:LEU:CD2	1.68	1.23
1:C:360:LEU:HD12	1:C:405:LEU:CD2	1.68	1.23
1:G:88:LEU:C	1:G:91:PRO:HD2	1.63	1.23
1:I:360:LEU:CG	1:I:365:TYR:HB3	1.67	1.23
1:O:87:PHE:CE2	2:P:83:GLY:CA	2.19	1.23
1:S:88:LEU:C	1:S:91:PRO:HD2	1.63	1.23
1:S:188:SER:O	1:S:191:THR:HG23	1.36	1.23
1:W:360:LEU:HD12	1:W:405:LEU:CD2	1.68	1.23
1:Y:410:LEU:HB3	1:Y:426:TYR:CD1	1.72	1.23
1:a:360:LEU:CG	1:a:365:TYR:HB3	1.67	1.23
1:I:410:LEU:HB3	1:I:426:TYR:CD1	1.72	1.23
1:K:360:LEU:CG	1:K:365:TYR:HB3	1.67	1.23
1:M:410:LEU:HB3	1:M:426:TYR:CD1	1.72	1.23
1:O:360:LEU:CG	1:O:365:TYR:HB3	1.67	1.23
1:Y:11:GLN:OE1	1:Y:70:GLU:CG	1.87	1.23
1:Y:360:LEU:CG	1:Y:365:TYR:HB3	1.67	1.23
1:c:360:LEU:CG	1:c:365:TYR:HB3	1.67	1.23
1:e:360:LEU:CG	1:e:365:TYR:HB3	1.67	1.23
1:A:410:LEU:HB3	1:A:426:TYR:CD1	1.72	1.23
1:G:188:SER:O	1:G:191:THR:HG23	1.36	1.23
1:I:192:VAL:CB	1:I:221:ILE:CD1	2.12	1.23
1:K:269:LYS:O	1:K:273:ASP:HB2	1.06	1.23
1:M:360:LEU:CG	1:M:365:TYR:HB3	1.67	1.23
1:Q:11:GLN:OE1	1:Q:70:GLU:CG	1.87	1.23
1:Q:360:LEU:CG	1:Q:365:TYR:HB3	1.67	1.23
1:c:410:LEU:HB3	1:c:426:TYR:CD1	1.72	1.23
1:e:360:LEU:HD12	1:e:405:LEU:CD2	1.68	1.23
1:e:360:LEU:HG	1:e:365:TYR:CB	1.69	1.23
1:C:87:PHE:CE2	2:D:83:GLY:CA	2.19	1.22
1:K:360:LEU:HD12	1:K:405:LEU:CD2	1.68	1.22
1:K:360:LEU:HG	1:K:365:TYR:CB	1.69	1.22
1:M:360:LEU:HD12	1:M:405:LEU:CD2	1.68	1.22
1:O:11:GLN:OE1	1:O:70:GLU:CG	1.87	1.22
1:a:11:GLN:OE1	1:a:70:GLU:CG	1.87	1.22
1:c:360:LEU:HD12	1:c:405:LEU:CD2	1.68	1.22
1:A:192:VAL:CB	1:A:221:ILE:CD1	2.12	1.22
1:A:279:THR:O	1:A:280:THR:HG22	1.32	1.22
1:C:11:GLN:OE1	1:C:70:GLU:CG	1.87	1.22
1:E:269:LYS:O	1:E:273:ASP:HB2	1.06	1.22
1:E:360:LEU:HG	1:E:365:TYR:CB	1.69	1.22

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:11:GLN:OE1	1:K:70:GLU:CG	1.87	1.22
1:M:88:LEU:C	1:M:91:PRO:HD2	1.63	1.22
1:S:360:LEU:CG	1:S:365:TYR:HB3	1.67	1.22
1:U:269:LYS:O	1:U:273:ASP:HB2	1.06	1.22
1:W:11:GLN:OE1	1:W:70:GLU:CG	1.87	1.22
1:W:87:PHE:CE2	2:X:83:GLY:CA	2.19	1.22
1:e:269:LYS:O	1:e:273:ASP:HB2	1.06	1.22
1:E:88:LEU:O	1:E:91:PRO:HD2	1.04	1.22
1:G:360:LEU:CG	1:G:365:TYR:HB3	1.67	1.22
1:I:11:GLN:OE1	1:I:70:GLU:CG	1.87	1.22
1:M:11:GLN:OE1	1:M:70:GLU:CG	1.87	1.22
1:M:192:VAL:CB	1:M:221:ILE:CD1	2.12	1.22
1:U:88:LEU:O	1:U:91:PRO:HD2	1.04	1.22
1:U:360:LEU:HG	1:U:365:TYR:CB	1.69	1.22
1:W:360:LEU:CG	1:W:365:TYR:HB3	1.67	1.22
1:c:11:GLN:OE1	1:c:70:GLU:CG	1.87	1.22
1:c:88:LEU:C	1:c:91:PRO:HD2	1.63	1.22
1:e:11:GLN:OE1	1:e:70:GLU:CG	1.87	1.22
1:e:88:LEU:C	1:e:91:PRO:HD2	1.63	1.22
1:A:11:GLN:OE1	1:A:70:GLU:CG	1.87	1.22
1:A:87:PHE:CD2	2:B:83:GLY:HA2	1.74	1.22
1:C:138:LEU:CD2	1:C:170:VAL:HG11	1.69	1.22
1:C:360:LEU:CG	1:C:365:TYR:HB3	1.67	1.22
1:I:279:THR:O	1:I:280:THR:HG22	1.32	1.22
1:K:88:LEU:C	1:K:91:PRO:HD2	1.63	1.22
1:M:279:THR:O	1:M:280:THR:HG22	1.32	1.22
1:O:269:LYS:O	1:O:273:ASP:HB2	1.06	1.22
1:Q:138:LEU:CD2	1:Q:170:VAL:HG11	1.70	1.22
1:S:87:PHE:CD2	2:T:83:GLY:HA2	1.74	1.22
1:U:360:LEU:HD12	1:U:405:LEU:CD2	1.68	1.22
1:W:138:LEU:CD2	1:W:170:VAL:HG11	1.69	1.22
1:a:269:LYS:O	1:a:273:ASP:HB2	1.06	1.22
1:c:192:VAL:CB	1:c:221:ILE:CD1	2.12	1.22
1:G:87:PHE:CD2	2:H:83:GLY:HA2	1.74	1.22
1:I:87:PHE:CD2	2:J:83:GLY:HA2	1.74	1.22
1:Q:149:ILE:CG2	1:Q:283:ILE:CG2	2.17	1.22
1:Q:360:LEU:HD12	1:Q:405:LEU:CD2	1.68	1.22
1:S:88:LEU:O	1:S:91:PRO:HD2	1.04	1.22
1:Y:138:LEU:CD2	1:Y:170:VAL:HG11	1.70	1.22
1:Y:360:LEU:HD12	1:Y:405:LEU:CD2	1.68	1.22
1:E:360:LEU:CG	1:E:365:TYR:HB3	1.67	1.21

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:360:LEU:HD12	1:E:405:LEU:CD2	1.68	1.21
1:G:88:LEU:O	1:G:91:PRO:HD2	1.04	1.21
1:G:192:VAL:CB	1:G:221:ILE:CD1	2.12	1.21
1:G:279:THR:O	1:G:280:THR:HG22	1.32	1.21
1:W:188:SER:O	1:W:191:THR:HG23	1.36	1.21
1:E:138:LEU:CD2	1:E:170:VAL:HG11	1.70	1.21
1:K:138:LEU:CD2	1:K:170:VAL:HG11	1.69	1.21
1:Q:353:ILE:CG2	1:Q:426:TYR:HB3	1.71	1.21
1:U:11:GLN:OE1	1:U:70:GLU:CG	1.87	1.21
1:U:87:PHE:CD2	2:V:83:GLY:HA2	1.74	1.21
1:U:138:LEU:CD2	1:U:170:VAL:HG11	1.70	1.21
1:U:360:LEU:CG	1:U:365:TYR:HB3	1.67	1.21
1:Y:353:ILE:CG2	1:Y:426:TYR:HB3	1.71	1.21
1:c:269:LYS:O	1:c:273:ASP:HB2	1.06	1.21
1:c:279:THR:O	1:c:280:THR:HG22	1.32	1.21
1:e:87:PHE:CD2	2:f:83:GLY:HA2	1.74	1.21
1:e:138:LEU:CD2	1:e:170:VAL:HG11	1.69	1.21
1:e:188:SER:O	1:e:191:THR:HG23	1.36	1.21
1:A:138:LEU:CD2	1:A:170:VAL:HG11	1.70	1.21
1:E:11:GLN:OE1	1:E:70:GLU:CG	1.87	1.21
1:E:87:PHE:CD2	2:F:83:GLY:HA2	1.74	1.21
1:I:138:LEU:CD2	1:I:170:VAL:HG11	1.70	1.21
1:K:87:PHE:CD2	2:L:83:GLY:HA2	1.74	1.21
1:K:192:VAL:CB	1:K:221:ILE:CD1	2.12	1.21
1:O:87:PHE:CD2	2:P:83:GLY:HA2	1.74	1.21
1:O:138:LEU:CD2	1:O:170:VAL:HG11	1.69	1.21
1:S:192:VAL:CB	1:S:221:ILE:CD1	2.12	1.21
1:c:360:LEU:HG	1:c:365:TYR:CB	1.69	1.21
1:C:188:SER:O	1:C:191:THR:HG23	1.36	1.21
1:E:88:LEU:C	1:E:91:PRO:HD2	1.63	1.21
1:G:11:GLN:OE1	1:G:70:GLU:CG	1.87	1.21
1:K:188:SER:O	1:K:191:THR:HG23	1.36	1.21
1:M:269:LYS:O	1:M:273:ASP:HB2	1.06	1.21
1:S:279:THR:O	1:S:280:THR:HG22	1.32	1.21
1:U:88:LEU:C	1:U:91:PRO:HD2	1.63	1.21
1:a:87:PHE:CD2	2:b:83:GLY:HA2	1.74	1.21
1:a:138:LEU:CD2	1:a:170:VAL:HG11	1.69	1.21
1:a:360:LEU:HD12	1:a:405:LEU:CD2	1.68	1.21
1:C:88:LEU:O	1:C:91:PRO:HD2	1.04	1.21
1:C:360:LEU:HG	1:C:365:TYR:CB	1.69	1.21
1:G:357:LEU:HD12	1:G:430:LYS:NZ	1.52	1.21

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:87:PHE:CD2	2:N:83:GLY:HA2	1.74	1.21
1:M:360:LEU:HG	1:M:365:TYR:CB	1.69	1.21
1:O:88:LEU:C	1:O:91:PRO:HD2	1.63	1.21
1:O:360:LEU:HD12	1:O:405:LEU:CD2	1.68	1.21
1:W:87:PHE:CD2	2:X:83:GLY:HA2	1.74	1.21
1:a:88:LEU:C	1:a:91:PRO:HD2	1.63	1.21
1:a:188:SER:O	1:a:191:THR:HG23	1.36	1.21
1:c:87:PHE:CD2	2:d:83:GLY:HA2	1.74	1.21
1:e:149:ILE:CG2	1:e:283:ILE:CG2	2.17	1.21
1:e:192:VAL:CB	1:e:221:ILE:CD1	2.12	1.21
1:C:87:PHE:CD2	2:D:83:GLY:HA2	1.74	1.20
1:E:353:ILE:CG2	1:E:426:TYR:HB3	1.71	1.20
1:O:360:LEU:HG	1:O:365:TYR:CB	1.69	1.20
1:Q:88:LEU:C	1:Q:91:PRO:HD2	1.63	1.20
1:S:11:GLN:OE1	1:S:70:GLU:CG	1.87	1.20
1:U:353:ILE:CG2	1:U:426:TYR:HB3	1.71	1.20
1:W:88:LEU:O	1:W:91:PRO:HD2	1.04	1.20
1:W:360:LEU:HG	1:W:365:TYR:CB	1.69	1.20
1:Y:88:LEU:C	1:Y:91:PRO:HD2	1.63	1.20
1:a:88:LEU:O	1:a:91:PRO:HD2	1.04	1.20
1:a:360:LEU:HG	1:a:365:TYR:CB	1.69	1.20
1:e:371:ARG:CB	1:e:389:ILE:CD1	2.17	1.20
1:A:149:ILE:CG2	1:A:283:ILE:CG2	2.17	1.20
1:E:410:LEU:CA	1:E:423:PRO:CG	2.20	1.20
1:K:149:ILE:CG2	1:K:283:ILE:CG2	2.17	1.20
1:K:371:ARG:CB	1:K:389:ILE:CD1	2.17	1.20
1:M:353:ILE:CG2	1:M:426:TYR:HB3	1.71	1.20
1:O:188:SER:O	1:O:191:THR:HG23	1.36	1.20
1:Q:87:PHE:CD2	2:R:83:GLY:HA2	1.74	1.20
1:S:357:LEU:HD12	1:S:430:LYS:NZ	1.52	1.20
1:U:410:LEU:CA	1:U:423:PRO:CG	2.20	1.20
1:Y:360:LEU:HG	1:Y:365:TYR:CB	1.69	1.20
1:c:353:ILE:CG2	1:c:426:TYR:HB3	1.71	1.20
1:A:88:LEU:O	1:A:91:PRO:HD2	1.04	1.20
1:C:518:LEU:CD2	1:C:646:UNK:O	1.90	1.20
1:E:518:LEU:CD2	1:E:646:UNK:O	1.90	1.20
1:G:138:LEU:CD2	1:G:170:VAL:HG11	1.69	1.20
1:G:269:LYS:O	1:G:273:ASP:HB2	1.06	1.20
1:G:410:LEU:CA	1:G:423:PRO:CG	2.20	1.20
1:G:518:LEU:CD2	1:G:646:UNK:O	1.90	1.20
1:I:88:LEU:O	1:I:91:PRO:HD2	1.04	1.20

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:149:ILE:CG2	1:I:283:ILE:CG2	2.17	1.20
1:M:138:LEU:CD2	1:M:170:VAL:HG11	1.70	1.20
1:O:12:TYR:CE2	1:O:77:VAL:HG11	1.77	1.20
1:O:88:LEU:O	1:O:91:PRO:HD2	1.04	1.20
1:O:353:ILE:CG2	1:O:426:TYR:HB3	1.71	1.20
1:Q:360:LEU:HG	1:Q:365:TYR:CB	1.69	1.20
1:Q:518:LEU:CD2	1:Q:646:UNK:O	1.90	1.20
1:S:138:LEU:CD2	1:S:170:VAL:HG11	1.69	1.20
1:S:518:LEU:CD2	1:S:646:UNK:O	1.90	1.20
1:U:518:LEU:CD2	1:U:646:UNK:O	1.90	1.20
1:W:269:LYS:O	1:W:273:ASP:HB2	1.06	1.20
1:W:518:LEU:CD2	1:W:646:UNK:O	1.90	1.20
1:Y:87:PHE:CD2	2:Z:83:GLY:HA2	1.74	1.20
1:Y:518:LEU:CD2	1:Y:646:UNK:O	1.90	1.20
1:A:518:LEU:CD2	1:A:646:UNK:O	1.90	1.20
1:C:410:LEU:CA	1:C:423:PRO:CG	2.20	1.20
1:G:12:TYR:CE2	1:G:77:VAL:HG11	1.77	1.20
1:I:518:LEU:CD2	1:I:646:UNK:O	1.90	1.20
1:K:518:LEU:CD2	1:K:646:UNK:O	1.90	1.20
1:M:518:LEU:CD2	1:M:646:UNK:O	1.90	1.20
1:O:518:LEU:CD2	1:O:646:UNK:O	1.90	1.20
1:S:410:LEU:CA	1:S:423:PRO:CG	2.20	1.20
1:W:410:LEU:CA	1:W:423:PRO:CG	2.20	1.20
1:a:353:ILE:CG2	1:a:426:TYR:HB3	1.71	1.20
1:a:518:LEU:CD2	1:a:646:UNK:O	1.90	1.20
1:c:88:LEU:O	1:c:91:PRO:HD2	1.04	1.20
1:c:138:LEU:CD2	1:c:170:VAL:HG11	1.70	1.20
1:c:518:LEU:CD2	1:c:646:UNK:O	1.90	1.20
1:e:357:LEU:CD1	1:e:430:LYS:HZ1	1.49	1.20
1:e:518:LEU:CD2	1:e:646:UNK:O	1.90	1.20
1:C:269:LYS:O	1:C:273:ASP:HB2	1.06	1.20
1:E:106:TYR:OH	1:E:110:ARG:NH2	1.75	1.20
1:I:88:LEU:C	1:I:91:PRO:HD2	1.63	1.20
1:Q:106:TYR:OH	1:Q:110:ARG:NH2	1.75	1.20
1:Q:357:LEU:HD12	1:Q:430:LYS:NZ	1.52	1.20
1:S:12:TYR:CE2	1:S:77:VAL:HG11	1.77	1.20
1:S:269:LYS:O	1:S:273:ASP:HB2	1.06	1.20
1:U:12:TYR:CE2	1:U:77:VAL:HG11	1.77	1.20
1:U:106:TYR:OH	1:U:110:ARG:NH2	1.75	1.20
1:Y:106:TYR:OH	1:Y:110:ARG:NH2	1.75	1.20
1:c:410:LEU:CA	1:c:423:PRO:CG	2.20	1.20

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:12:TYR:CE2	1:E:77:VAL:HG11	1.77	1.19
1:M:88:LEU:O	1:M:91:PRO:HD2	1.04	1.19
1:M:410:LEU:CA	1:M:423:PRO:CG	2.20	1.19
1:O:410:LEU:CA	1:O:423:PRO:CG	2.20	1.19
1:a:12:TYR:CE2	1:a:77:VAL:HG11	1.77	1.19
1:a:410:LEU:CA	1:a:423:PRO:CG	2.20	1.19
1:A:88:LEU:C	1:A:91:PRO:HD2	1.63	1.19
1:C:106:TYR:OH	1:C:110:ARG:NH2	1.75	1.19
1:C:353:ILE:CG2	1:C:426:TYR:HB3	1.71	1.19
1:W:106:TYR:OH	1:W:110:ARG:NH2	1.75	1.19
1:W:357:LEU:HD12	1:W:430:LYS:NZ	1.52	1.19
1:Y:88:LEU:O	1:Y:91:PRO:HD2	1.04	1.19
1:c:149:ILE:CG2	1:c:283:ILE:CG2	2.17	1.19
1:e:88:LEU:O	1:e:91:PRO:HD2	1.04	1.19
1:C:357:LEU:HD12	1:C:430:LYS:NZ	1.52	1.19
1:K:88:LEU:O	1:K:91:PRO:HD2	1.04	1.19
1:Y:357:LEU:HD12	1:Y:430:LYS:NZ	1.52	1.19
1:e:410:LEU:CA	1:e:423:PRO:CG	2.20	1.19
2:f:58:LYS:O	2:f:61:ASN:OD1	1.61	1.19
1:A:353:ILE:CG2	1:A:426:TYR:HB3	1.71	1.19
2:B:58:LYS:O	2:B:61:ASN:OD1	1.61	1.19
1:I:353:ILE:CG2	1:I:426:TYR:HB3	1.71	1.19
2:J:58:LYS:O	2:J:61:ASN:OD1	1.61	1.19
1:K:410:LEU:CA	1:K:423:PRO:CG	2.20	1.19
2:L:58:LYS:O	2:L:61:ASN:OD1	1.61	1.19
1:M:12:TYR:CE2	1:M:77:VAL:HG11	1.77	1.19
1:M:149:ILE:CG2	1:M:283:ILE:CG2	2.17	1.19
1:O:106:TYR:OH	1:O:110:ARG:NH2	1.75	1.19
1:Q:12:TYR:CE2	1:Q:77:VAL:HG11	1.77	1.19
1:Q:88:LEU:O	1:Q:91:PRO:HD2	1.04	1.19
1:Q:269:LYS:O	1:Q:273:ASP:HB2	1.06	1.19
1:S:149:ILE:CG2	1:S:283:ILE:CG2	2.17	1.19
1:W:353:ILE:CG2	1:W:426:TYR:HB3	1.71	1.19
1:Y:12:TYR:CE2	1:Y:77:VAL:HG11	1.77	1.19
1:a:106:TYR:OH	1:a:110:ARG:NH2	1.75	1.19
1:c:12:TYR:CE2	1:c:77:VAL:HG11	1.77	1.19
1:A:410:LEU:CA	1:A:423:PRO:CG	2.20	1.19
1:C:12:TYR:CE2	1:C:77:VAL:HG11	1.77	1.19
1:G:149:ILE:CG2	1:G:283:ILE:CG2	2.17	1.19
1:G:353:ILE:CG2	1:G:426:TYR:HB3	1.71	1.19
1:I:410:LEU:CA	1:I:423:PRO:CG	2.20	1.19

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Q:410:LEU:CA	1:Q:423:PRO:CG	2.20	1.19
1:S:19:PHE:CZ	1:S:92:ILE:CG1	2.26	1.19
1:S:353:ILE:CG2	1:S:426:TYR:HB3	1.71	1.19
2:T:58:LYS:O	2:T:61:ASN:OD1	1.61	1.19
1:Y:269:LYS:O	1:Y:273:ASP:HB2	1.06	1.19
1:Y:410:LEU:CA	1:Y:423:PRO:CG	2.20	1.19
1:G:19:PHE:CZ	1:G:92:ILE:CG1	2.26	1.18
1:G:178:ILE:CG2	1:G:241:LEU:CD2	2.21	1.18
2:H:58:LYS:O	2:H:61:ASN:OD1	1.61	1.18
1:K:287:HIS:CG	1:K:288:HIS:HD2	1.62	1.18
1:K:353:ILE:CG2	1:K:426:TYR:HB3	1.71	1.18
1:K:357:LEU:CD1	1:K:430:LYS:HZ1	1.50	1.18
1:M:287:HIS:CG	1:M:288:HIS:HD2	1.61	1.18
2:N:58:LYS:O	2:N:61:ASN:OD1	1.61	1.18
1:O:19:PHE:CZ	1:O:92:ILE:CG1	2.26	1.18
1:U:357:LEU:HD12	1:U:430:LYS:NZ	1.52	1.18
1:W:12:TYR:CE2	1:W:77:VAL:HG11	1.77	1.18
1:Y:518:LEU:HD21	1:Y:646:UNK:C	1.72	1.18
1:a:19:PHE:CZ	1:a:92:ILE:CG1	2.26	1.18
1:a:518:LEU:HD21	1:a:646:UNK:C	1.72	1.18
1:c:287:HIS:CG	1:c:288:HIS:HD2	1.61	1.18
1:c:518:LEU:HD21	1:c:646:UNK:C	1.72	1.18
2:d:58:LYS:O	2:d:61:ASN:OD1	1.61	1.18
1:e:287:HIS:CG	1:e:288:HIS:HD2	1.62	1.18
1:E:357:LEU:HD12	1:E:430:LYS:NZ	1.52	1.18
1:I:19:PHE:CZ	1:I:92:ILE:CG1	2.26	1.18
1:I:178:ILE:CG2	1:I:241:LEU:CD2	2.21	1.18
1:I:357:LEU:CD1	1:I:430:LYS:HZ1	1.50	1.18
1:K:12:TYR:CE2	1:K:77:VAL:HG11	1.77	1.18
1:K:518:LEU:HD21	1:K:646:UNK:C	1.72	1.18
1:M:106:TYR:OH	1:M:110:ARG:NH2	1.75	1.18
1:M:518:LEU:HD21	1:M:646:UNK:C	1.72	1.18
1:S:178:ILE:CG2	1:S:241:LEU:CD2	2.21	1.18
1:W:518:LEU:HD21	1:W:646:UNK:C	1.72	1.18
1:e:12:TYR:CE2	1:e:77:VAL:HG11	1.77	1.18
1:e:353:ILE:CG2	1:e:426:TYR:HB3	1.71	1.18
1:e:518:LEU:HD21	1:e:646:UNK:C	1.72	1.18
1:A:19:PHE:CZ	1:A:92:ILE:CG1	2.26	1.18
1:A:106:TYR:OH	1:A:110:ARG:NH2	1.75	1.18
1:A:178:ILE:CG2	1:A:241:LEU:CD2	2.21	1.18
1:C:518:LEU:HD21	1:C:646:UNK:C	1.72	1.18

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:87:PHE:O	1:E:91:PRO:HD3	1.01	1.18
1:E:178:ILE:CG2	1:E:241:LEU:CD2	2.21	1.18
1:G:87:PHE:O	1:G:91:PRO:HD3	1.01	1.18
1:I:106:TYR:OH	1:I:110:ARG:NH2	1.75	1.18
1:I:287:HIS:CG	1:I:288:HIS:HD2	1.61	1.18
1:I:518:LEU:HD21	1:I:646:UNK:C	1.72	1.18
1:O:518:LEU:HD21	1:O:646:UNK:C	1.72	1.18
1:Q:518:LEU:HD21	1:Q:646:UNK:C	1.72	1.18
1:S:87:PHE:O	1:S:91:PRO:HD3	1.01	1.18
1:U:87:PHE:O	1:U:91:PRO:HD3	1.01	1.18
2:V:58:LYS:O	2:V:61:ASN:OD1	1.61	1.18
1:Y:149:ILE:CG2	1:Y:283:ILE:CG2	2.17	1.18
1:c:106:TYR:OH	1:c:110:ARG:NH2	1.75	1.18
1:A:12:TYR:CE2	1:A:77:VAL:HG11	1.77	1.18
1:A:287:HIS:CG	1:A:288:HIS:HD2	1.61	1.18
1:A:518:LEU:HD21	1:A:646:UNK:C	1.72	1.18
2:D:62:MET:HE2	2:D:62:MET:HA	1.19	1.18
1:I:357:LEU:HD12	1:I:430:LYS:NZ	1.52	1.18
1:U:178:ILE:CG2	1:U:241:LEU:CD2	2.21	1.18
1:A:138:LEU:HD23	1:A:170:VAL:HG11	1.21	1.18
1:A:178:ILE:HG22	1:A:241:LEU:HD23	1.26	1.18
2:F:58:LYS:O	2:F:61:ASN:OD1	1.61	1.18
1:I:178:ILE:HG22	1:I:241:LEU:HD23	1.26	1.18
1:K:178:ILE:CG2	1:K:241:LEU:CD2	2.21	1.18
1:M:19:PHE:CZ	1:M:92:ILE:CG1	2.26	1.18
2:P:62:MET:HE2	2:P:62:MET:HA	1.19	1.18
1:U:518:LEU:HD21	1:U:646:UNK:C	1.72	1.18
1:a:287:HIS:CG	1:a:288:HIS:HD2	1.62	1.18
2:b:62:MET:HE2	2:b:62:MET:HA	1.19	1.18
1:c:19:PHE:CZ	1:c:92:ILE:CG1	2.26	1.18
1:e:178:ILE:CG2	1:e:241:LEU:CD2	2.21	1.18
1:A:87:PHE:O	1:A:91:PRO:HD3	1.01	1.17
1:C:19:PHE:CZ	1:C:92:ILE:CG1	2.26	1.17
1:C:87:PHE:O	1:C:91:PRO:HD3	1.01	1.17
1:E:518:LEU:HD21	1:E:646:UNK:C	1.72	1.17
1:G:518:LEU:HD21	1:G:646:UNK:C	1.72	1.17
1:I:12:TYR:CE2	1:I:77:VAL:HG11	1.77	1.17
1:O:287:HIS:CG	1:O:288:HIS:HD2	1.62	1.17
1:Q:410:LEU:CA	1:Q:423:PRO:HG2	1.74	1.17
1:U:149:ILE:CG2	1:U:283:ILE:CG2	2.17	1.17
1:W:19:PHE:CZ	1:W:92:ILE:CG1	2.26	1.17

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:W:87:PHE:O	1:W:91:PRO:HD3	1.01	1.17
2:X:62:MET:HA	2:X:62:MET:HE2	1.19	1.17
1:Y:410:LEU:CA	1:Y:423:PRO:HG2	1.74	1.17
1:a:149:ILE:CG2	1:a:283:ILE:CG2	2.17	1.17
1:e:178:ILE:HG22	1:e:241:LEU:HD23	1.26	1.17
1:e:377:PRO:O	1:e:427:LEU:CD2	1.92	1.17
1:A:357:LEU:HD12	1:A:430:LYS:NZ	1.52	1.17
1:C:424:SER:HA	1:C:427:LEU:HB3	1.18	1.17
1:G:410:LEU:CA	1:G:423:PRO:HG2	1.74	1.17
1:I:87:PHE:O	1:I:91:PRO:HD3	1.01	1.17
1:K:377:PRO:O	1:K:427:LEU:CD2	1.92	1.17
1:O:149:ILE:CG2	1:O:283:ILE:CG2	2.17	1.17
1:S:410:LEU:CA	1:S:423:PRO:HG2	1.74	1.17
1:S:518:LEU:HD21	1:S:646:UNK:C	1.72	1.17
2:D:58:LYS:O	2:D:61:ASN:OD1	1.61	1.17
1:E:149:ILE:CG2	1:E:283:ILE:CG2	2.17	1.17
1:E:410:LEU:CA	1:E:423:PRO:HG2	1.74	1.17
1:G:287:HIS:CG	1:G:288:HIS:HD2	1.62	1.17
1:I:138:LEU:HD23	1:I:170:VAL:HG11	1.21	1.17
1:K:178:ILE:HG22	1:K:241:LEU:HD23	1.26	1.17
1:O:178:ILE:CG2	1:O:241:LEU:CD2	2.21	1.17
1:U:410:LEU:CA	1:U:423:PRO:HG2	1.74	1.17
1:A:357:LEU:CD1	1:A:430:LYS:HZ1	1.52	1.17
1:A:377:PRO:O	1:A:427:LEU:CD2	1.92	1.17
1:K:19:PHE:CZ	1:K:92:ILE:CG1	2.26	1.17
1:Q:377:PRO:O	1:Q:427:LEU:CD2	1.92	1.17
1:S:287:HIS:CG	1:S:288:HIS:HD2	1.62	1.17
1:S:424:SER:HA	1:S:427:LEU:HB3	1.18	1.17
1:W:149:ILE:CG2	1:W:283:ILE:CG2	2.17	1.17
2:X:58:LYS:O	2:X:61:ASN:OD1	1.61	1.17
1:a:178:ILE:CG2	1:a:241:LEU:CD2	2.21	1.17
1:c:377:PRO:O	1:c:427:LEU:CD2	1.92	1.17
1:I:377:PRO:O	1:I:427:LEU:CD2	1.92	1.17
1:K:106:TYR:OH	1:K:110:ARG:NH2	1.75	1.17
1:M:377:PRO:O	1:M:427:LEU:CD2	1.92	1.17
1:Q:178:ILE:CG2	1:Q:241:LEU:CD2	2.21	1.17
1:W:424:SER:HA	1:W:427:LEU:HB3	1.18	1.17
1:Y:377:PRO:O	1:Y:427:LEU:CD2	1.92	1.17
1:e:19:PHE:CZ	1:e:92:ILE:CG1	2.26	1.17
1:e:106:TYR:OH	1:e:110:ARG:NH2	1.75	1.17
1:C:178:ILE:CG2	1:C:241:LEU:CD2	2.21	1.16

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:287:HIS:CG	1:C:288:HIS:HD2	1.62	1.16
1:E:287:HIS:CG	1:E:288:HIS:HD2	1.61	1.16
1:G:186:CYS:C	1:G:191:THR:HG21	1.70	1.16
1:G:424:SER:HA	1:G:427:LEU:HB3	1.18	1.16
1:G:518:LEU:HD11	1:G:646:UNK:O	1.45	1.16
1:M:87:PHE:O	1:M:91:PRO:HD3	1.01	1.16
1:M:178:ILE:CG2	1:M:241:LEU:CD2	2.21	1.16
1:O:377:PRO:O	1:O:427:LEU:CD2	1.92	1.16
2:P:58:LYS:O	2:P:61:ASN:OD1	1.61	1.16
1:S:106:TYR:OH	1:S:110:ARG:NH2	1.75	1.16
1:S:186:CYS:C	1:S:191:THR:HG21	1.70	1.16
1:S:518:LEU:HD11	1:S:646:UNK:O	1.45	1.16
1:W:178:ILE:CG2	1:W:241:LEU:CD2	2.21	1.16
1:Y:178:ILE:CG2	1:Y:241:LEU:CD2	2.21	1.16
1:Y:287:HIS:CG	1:Y:288:HIS:HD2	1.61	1.16
1:Y:424:SER:HA	1:Y:427:LEU:HB3	1.19	1.16
1:c:87:PHE:O	1:c:91:PRO:HD3	1.01	1.16
1:c:178:ILE:CG2	1:c:241:LEU:CD2	2.21	1.16
1:C:149:ILE:CG2	1:C:283:ILE:CG2	2.17	1.16
1:C:377:PRO:O	1:C:427:LEU:CD2	1.92	1.16
1:C:518:LEU:HD11	1:C:646:UNK:O	1.45	1.16
1:E:377:PRO:O	1:E:427:LEU:CD2	1.92	1.16
1:G:178:ILE:HG22	1:G:241:LEU:HD23	1.26	1.16
1:Q:19:PHE:CZ	1:Q:92:ILE:CG1	2.26	1.16
1:Q:287:HIS:CG	1:Q:288:HIS:HD2	1.61	1.16
1:U:287:HIS:CG	1:U:288:HIS:HD2	1.61	1.16
1:U:377:PRO:O	1:U:427:LEU:CD2	1.92	1.16
1:W:287:HIS:CG	1:W:288:HIS:HD2	1.62	1.16
1:W:377:PRO:O	1:W:427:LEU:CD2	1.92	1.16
1:W:518:LEU:HD11	1:W:646:UNK:O	1.45	1.16
1:a:377:PRO:O	1:a:427:LEU:CD2	1.92	1.16
2:b:58:LYS:O	2:b:61:ASN:OD1	1.61	1.16
1:A:87:PHE:CE2	2:B:83:GLY:N	2.14	1.16
1:C:287:HIS:ND1	1:C:288:HIS:HD2	1.44	1.16
1:E:19:PHE:CZ	1:E:92:ILE:CG1	2.26	1.16
1:G:106:TYR:OH	1:G:110:ARG:NH2	1.75	1.16
1:I:87:PHE:CE2	2:J:83:GLY:N	2.14	1.16
1:O:87:PHE:O	1:O:91:PRO:HD3	1.01	1.16
1:O:360:LEU:CD1	1:O:365:TYR:HB3	1.75	1.16
1:Q:41:SER:CB	1:Q:44:GLU:HB2	1.76	1.16
1:U:41:SER:CB	1:U:44:GLU:HB2	1.76	1.16

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:W:287:HIS:ND1	1:W:288:HIS:HD2	1.44	1.16
1:Y:19:PHE:CZ	1:Y:92:ILE:CG1	2.26	1.16
2:Z:58:LYS:O	2:Z:61:ASN:OD1	1.61	1.16
1:a:360:LEU:CD1	1:a:365:TYR:HB3	1.75	1.16
1:A:360:LEU:CD1	1:A:365:TYR:HB3	1.75	1.16
1:C:186:CYS:C	1:C:191:THR:HG21	1.70	1.16
1:E:41:SER:CB	1:E:44:GLU:HB2	1.76	1.16
1:G:41:SER:CB	1:G:44:GLU:HB2	1.76	1.16
1:G:377:PRO:O	1:G:427:LEU:CD2	1.92	1.16
1:I:518:LEU:HD11	1:I:646:UNK:O	1.45	1.16
1:M:360:LEU:CD1	1:M:365:TYR:HB3	1.75	1.16
1:M:410:LEU:CA	1:M:423:PRO:HG2	1.74	1.16
1:Q:87:PHE:O	1:Q:91:PRO:HD3	1.01	1.16
1:Q:424:SER:HA	1:Q:427:LEU:HB3	1.19	1.16
2:R:58:LYS:O	2:R:61:ASN:OD1	1.61	1.16
1:S:377:PRO:O	1:S:427:LEU:CD2	1.92	1.16
1:U:19:PHE:CZ	1:U:92:ILE:CG1	2.26	1.16
1:W:186:CYS:C	1:W:191:THR:HG21	1.70	1.16
1:Y:41:SER:CB	1:Y:44:GLU:HB2	1.76	1.16
1:a:41:SER:CB	1:a:44:GLU:HB2	1.76	1.16
1:a:87:PHE:O	1:a:91:PRO:HD3	1.01	1.16
1:a:287:HIS:ND1	1:a:288:HIS:HD2	1.44	1.16
1:c:410:LEU:CA	1:c:423:PRO:HG2	1.74	1.16
1:A:518:LEU:HD11	1:A:646:UNK:O	1.45	1.16
1:G:287:HIS:ND1	1:G:288:HIS:HD2	1.44	1.16
1:I:360:LEU:CD1	1:I:365:TYR:HB3	1.75	1.16
1:K:41:SER:CB	1:K:44:GLU:HB2	1.76	1.16
1:O:41:SER:CB	1:O:44:GLU:HB2	1.76	1.16
1:O:287:HIS:ND1	1:O:288:HIS:HD2	1.44	1.16
1:S:41:SER:CB	1:S:44:GLU:HB2	1.76	1.16
1:S:178:ILE:HG22	1:S:241:LEU:HD23	1.26	1.16
1:S:287:HIS:ND1	1:S:288:HIS:HD2	1.44	1.16
1:U:178:ILE:HG22	1:U:241:LEU:HD23	1.26	1.16
1:U:360:LEU:CD1	1:U:365:TYR:HB3	1.75	1.16
1:U:371:ARG:CG	1:U:389:ILE:CD1	2.13	1.16
1:Y:87:PHE:O	1:Y:91:PRO:HD3	1.01	1.16
1:c:360:LEU:CD1	1:c:365:TYR:HB3	1.75	1.16
1:e:41:SER:CB	1:e:44:GLU:HB2	1.76	1.16
1:C:39:ILE:HG12	1:C:40:LEU:HD23	1.26	1.15
1:C:87:PHE:CE2	2:D:83:GLY:N	2.14	1.15
1:E:360:LEU:CD1	1:E:365:TYR:HB3	1.75	1.15

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:87:PHE:CE2	2:H:83:GLY:N	2.14	1.15
1:K:287:HIS:ND1	1:K:288:HIS:HD2	1.44	1.15
1:O:371:ARG:CG	1:O:389:ILE:CD1	2.13	1.15
1:W:87:PHE:CE2	2:X:83:GLY:N	2.14	1.15
1:a:371:ARG:CG	1:a:389:ILE:CD1	2.13	1.15
1:e:87:PHE:CE2	2:f:83:GLY:N	2.14	1.15
1:e:87:PHE:O	1:e:91:PRO:HD3	1.01	1.15
1:e:287:HIS:ND1	1:e:288:HIS:HD2	1.44	1.15
1:e:410:LEU:CA	1:e:423:PRO:HG2	1.74	1.15
1:A:186:CYS:C	1:A:191:THR:HG21	1.71	1.15
1:E:371:ARG:CG	1:E:389:ILE:CD1	2.13	1.15
1:G:360:LEU:CD1	1:G:365:TYR:HB3	1.75	1.15
1:I:186:CYS:C	1:I:191:THR:HG21	1.71	1.15
1:K:87:PHE:CE2	2:L:83:GLY:N	2.14	1.15
1:K:87:PHE:O	1:K:91:PRO:HD3	1.01	1.15
1:K:410:LEU:CA	1:K:423:PRO:HG2	1.74	1.15
1:M:287:HIS:ND1	1:M:288:HIS:HD2	1.44	1.15
1:Q:360:LEU:CD1	1:Q:365:TYR:HB3	1.75	1.15
1:S:87:PHE:CE2	2:T:83:GLY:N	2.14	1.15
1:S:360:LEU:CD1	1:S:365:TYR:HB3	1.75	1.15
1:W:39:ILE:HG12	1:W:40:LEU:HD23	1.26	1.15
1:Y:360:LEU:CD1	1:Y:365:TYR:HB3	1.75	1.15
1:e:360:LEU:CD1	1:e:365:TYR:HB3	1.75	1.15
1:E:422:ILE:HB	1:E:427:LEU:HD12	1.29	1.15
1:K:357:LEU:HD12	1:K:430:LYS:NZ	1.52	1.15
1:U:422:ILE:HB	1:U:427:LEU:HD12	1.29	1.15
1:c:287:HIS:ND1	1:c:288:HIS:HD2	1.44	1.15
1:A:410:LEU:CA	1:A:423:PRO:HG2	1.74	1.15
1:C:360:LEU:CD1	1:C:365:TYR:HB3	1.75	1.15
1:E:178:ILE:HG22	1:E:241:LEU:HD23	1.26	1.15
1:I:410:LEU:CA	1:I:423:PRO:HG2	1.74	1.15
1:K:360:LEU:CD1	1:K:365:TYR:HB3	1.75	1.15
1:M:41:SER:CB	1:M:44:GLU:HB2	1.76	1.15
1:W:178:ILE:HG22	1:W:241:LEU:HD23	1.26	1.15
1:Y:186:CYS:C	1:Y:191:THR:HG21	1.71	1.15
1:a:410:LEU:CA	1:a:423:PRO:HG2	1.74	1.15
1:I:424:SER:HA	1:I:427:LEU:HB3	1.19	1.15
1:O:410:LEU:CA	1:O:423:PRO:HG2	1.74	1.15
1:Q:35:MET:HE2	1:Q:39:ILE:HD13	1.24	1.15
1:Q:186:CYS:C	1:Q:191:THR:HG21	1.71	1.15
1:U:186:CYS:C	1:U:191:THR:HG21	1.71	1.15

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:W:360:LEU:CD1	1:W:365:TYR:HB3	1.75	1.15
1:W:371:ARG:CB	1:W:389:ILE:CD1	2.17	1.15
1:c:41:SER:CB	1:c:44:GLU:HB2	1.76	1.15
1:e:39:ILE:HG12	1:e:40:LEU:HD23	1.26	1.15
1:e:357:LEU:HD12	1:e:430:LYS:NZ	1.52	1.15
1:A:41:SER:CB	1:A:44:GLU:HB2	1.76	1.14
1:A:424:SER:HA	1:A:427:LEU:HB3	1.19	1.14
1:C:178:ILE:HG22	1:C:241:LEU:HD23	1.26	1.14
1:E:186:CYS:C	1:E:191:THR:HG21	1.71	1.14
1:G:348:LYS:O	1:G:352:ILE:CD1	1.96	1.14
1:O:87:PHE:CE2	2:P:83:GLY:N	2.14	1.14
1:O:348:LYS:O	1:O:352:ILE:CD1	1.96	1.14
1:Q:348:LYS:O	1:Q:352:ILE:CD1	1.96	1.14
1:S:348:LYS:O	1:S:352:ILE:CD1	1.96	1.14
1:U:87:PHE:CE2	2:V:83:GLY:N	2.14	1.14
1:U:287:HIS:ND1	1:U:288:HIS:HD2	1.44	1.14
1:Y:348:LYS:O	1:Y:352:ILE:CD1	1.96	1.14
1:Y:422:ILE:HB	1:Y:427:LEU:HD12	1.29	1.14
1:a:87:PHE:CE2	2:b:83:GLY:N	2.14	1.14
1:a:348:LYS:O	1:a:352:ILE:CD1	1.96	1.14
1:C:371:ARG:CB	1:C:389:ILE:CD1	2.17	1.14
1:E:87:PHE:CE2	2:F:83:GLY:N	2.14	1.14
1:E:287:HIS:ND1	1:E:288:HIS:HD2	1.44	1.14
1:I:41:SER:CB	1:I:44:GLU:HB2	1.76	1.14
1:I:287:HIS:ND1	1:I:288:HIS:HD2	1.44	1.14
1:K:138:LEU:HD23	1:K:170:VAL:HG11	1.21	1.14
1:Y:35:MET:HE2	1:Y:39:ILE:HD13	1.24	1.14
1:a:35:MET:HE2	1:a:39:ILE:HD13	1.24	1.14
1:e:186:CYS:C	1:e:191:THR:HG21	1.70	1.14
1:C:41:SER:CB	1:C:44:GLU:HB2	1.76	1.14
1:E:348:LYS:O	1:E:352:ILE:CD1	1.96	1.14
1:K:39:ILE:HG12	1:K:40:LEU:HD23	1.26	1.14
1:K:186:CYS:C	1:K:191:THR:HG21	1.70	1.14
1:M:186:CYS:C	1:M:191:THR:HG21	1.71	1.14
1:M:410:LEU:CB	1:M:423:PRO:CG	1.76	1.14
1:O:360:LEU:HG	1:O:365:TYR:HB3	1.14	1.14
1:O:374:VAL:HG22	1:O:375:PHE:CE1	1.83	1.14
1:Q:422:ILE:HB	1:Q:427:LEU:HD12	1.29	1.14
1:S:371:ARG:CG	1:S:389:ILE:CD1	2.13	1.14
1:Y:360:LEU:HG	1:Y:365:TYR:HB3	1.14	1.14
1:Y:371:ARG:CB	1:Y:389:ILE:CD1	2.17	1.14

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:a:374:VAL:HG22	1:a:375:PHE:CE1	1.83	1.14
1:c:186:CYS:C	1:c:191:THR:HG21	1.71	1.14
1:c:348:LYS:O	1:c:352:ILE:CD1	1.96	1.14
1:A:287:HIS:ND1	1:A:288:HIS:HD2	1.44	1.14
1:A:371:ARG:CG	1:A:389:ILE:CD1	2.13	1.14
1:C:269:LYS:O	1:C:273:ASP:CB	1.96	1.14
1:E:39:ILE:HG12	1:E:40:LEU:HD23	1.26	1.14
1:E:269:LYS:O	1:E:273:ASP:CB	1.96	1.14
1:K:518:LEU:HD11	1:K:646:UNK:O	1.45	1.14
1:M:348:LYS:O	1:M:352:ILE:CD1	1.96	1.14
1:O:353:ILE:HG22	1:O:426:TYR:HB3	1.14	1.14
1:Q:360:LEU:HG	1:Q:365:TYR:HB3	1.14	1.14
1:U:269:LYS:O	1:U:273:ASP:CB	1.96	1.14
1:U:348:LYS:O	1:U:352:ILE:CD1	1.96	1.14
1:W:41:SER:CB	1:W:44:GLU:HB2	1.76	1.14
1:W:410:LEU:CA	1:W:423:PRO:HG2	1.74	1.14
1:a:186:CYS:C	1:a:191:THR:HG21	1.70	1.14
1:a:353:ILE:HG22	1:a:426:TYR:HB3	1.14	1.14
1:a:360:LEU:HG	1:a:365:TYR:HB3	1.14	1.14
1:c:35:MET:HE2	1:c:39:ILE:HD13	1.24	1.14
1:c:410:LEU:CB	1:c:423:PRO:CG	1.76	1.14
1:e:518:LEU:HD11	1:e:646:UNK:O	1.45	1.14
1:C:87:PHE:O	1:C:91:PRO:CD	1.96	1.14
1:G:371:ARG:CG	1:G:389:ILE:CD1	2.13	1.14
1:K:357:LEU:HD11	1:K:430:LYS:HE3	1.27	1.14
1:M:35:MET:HE2	1:M:39:ILE:HD13	1.24	1.14
1:O:186:CYS:C	1:O:191:THR:HG21	1.70	1.14
1:Q:371:ARG:CG	1:Q:389:ILE:CD1	2.13	1.14
1:Q:374:VAL:HG22	1:Q:375:PHE:CE1	1.83	1.14
1:U:87:PHE:O	1:U:91:PRO:CD	1.96	1.14
1:W:87:PHE:O	1:W:91:PRO:CD	1.96	1.14
1:W:269:LYS:O	1:W:273:ASP:CB	1.96	1.14
1:W:348:LYS:O	1:W:352:ILE:CD1	1.96	1.14
1:Y:371:ARG:CG	1:Y:389:ILE:CD1	2.13	1.14
1:Y:374:VAL:HG22	1:Y:375:PHE:CE1	1.83	1.14
1:c:357:LEU:HD11	1:c:430:LYS:HE3	1.27	1.14
1:e:138:LEU:HD23	1:e:170:VAL:HG11	1.21	1.14
1:C:348:LYS:O	1:C:352:ILE:CD1	1.96	1.13
1:C:410:LEU:CA	1:C:423:PRO:HG2	1.74	1.13
1:E:87:PHE:O	1:E:91:PRO:CD	1.96	1.13
1:I:348:LYS:O	1:I:352:ILE:CD1	1.96	1.13

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:371:ARG:CG	1:I:389:ILE:CD1	2.13	1.13
1:M:87:PHE:O	1:M:91:PRO:CD	1.96	1.13
1:M:357:LEU:HD11	1:M:430:LYS:HE3	1.27	1.13
1:O:35:MET:HE2	1:O:39:ILE:HD13	1.24	1.13
1:O:87:PHE:O	1:O:91:PRO:CD	1.96	1.13
1:O:518:LEU:HD11	1:O:646:UNK:O	1.45	1.13
1:Q:269:LYS:O	1:Q:273:ASP:CB	1.96	1.13
1:Q:287:HIS:ND1	1:Q:288:HIS:HD2	1.44	1.13
1:Q:371:ARG:CB	1:Q:389:ILE:CD1	2.17	1.13
1:U:518:LEU:HD11	1:U:646:UNK:O	1.45	1.13
1:a:87:PHE:O	1:a:91:PRO:CD	1.96	1.13
1:a:518:LEU:HD11	1:a:646:UNK:O	1.45	1.13
1:c:87:PHE:O	1:c:91:PRO:CD	1.96	1.13
1:c:422:ILE:HB	1:c:427:LEU:HD12	1.29	1.13
1:e:357:LEU:HD11	1:e:430:LYS:HE3	1.27	1.13
1:A:348:LYS:O	1:A:352:ILE:CD1	1.96	1.13
1:C:374:VAL:HG22	1:C:375:PHE:CE1	1.83	1.13
1:I:87:PHE:O	1:I:91:PRO:CD	1.96	1.13
1:I:422:ILE:HG22	1:I:423:PRO:HD2	1.14	1.13
1:M:178:ILE:HG22	1:M:241:LEU:HD23	1.26	1.13
1:S:269:LYS:O	1:S:273:ASP:CB	1.96	1.13
1:U:39:ILE:HG12	1:U:40:LEU:HD23	1.26	1.13
1:Y:269:LYS:O	1:Y:273:ASP:CB	1.96	1.13
1:Y:353:ILE:HG22	1:Y:426:TYR:HB3	1.14	1.13
1:c:178:ILE:HG22	1:c:241:LEU:HD23	1.26	1.13
1:A:87:PHE:O	1:A:91:PRO:CD	1.96	1.13
1:A:422:ILE:HG22	1:A:423:PRO:HD2	1.14	1.13
1:G:269:LYS:O	1:G:273:ASP:CB	1.96	1.13
1:M:422:ILE:HB	1:M:427:LEU:HD12	1.29	1.13
1:O:114:TYR:O	1:O:117:ASN:O	1.67	1.13
1:O:178:ILE:HG22	1:O:241:LEU:HD23	1.26	1.13
1:Q:178:ILE:HG22	1:Q:241:LEU:HD23	1.26	1.13
1:Q:353:ILE:HG22	1:Q:426:TYR:HB3	1.14	1.13
1:W:374:VAL:HG22	1:W:375:PHE:CE1	1.83	1.13
1:Y:178:ILE:HG22	1:Y:241:LEU:HD23	1.26	1.13
1:Y:287:HIS:ND1	1:Y:288:HIS:HD2	1.44	1.13
1:a:114:TYR:O	1:a:117:ASN:O	1.67	1.13
1:e:422:ILE:HG22	1:e:423:PRO:HD2	1.14	1.13
1:C:87:PHE:CE2	2:D:83:GLY:HA2	1.82	1.13
1:C:114:TYR:O	1:C:117:ASN:O	1.67	1.13
1:E:518:LEU:HD11	1:E:646:UNK:O	1.45	1.13

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:87:PHE:O	1:K:91:PRO:CD	1.96	1.13
1:K:422:ILE:HG22	1:K:423:PRO:HD2	1.14	1.13
1:M:360:LEU:HG	1:M:365:TYR:HB3	1.14	1.13
1:Q:114:TYR:O	1:Q:117:ASN:O	1.67	1.13
1:W:87:PHE:CE2	2:X:83:GLY:HA2	1.82	1.13
1:W:114:TYR:O	1:W:117:ASN:O	1.67	1.13
1:Y:87:PHE:CE2	2:Z:83:GLY:N	2.14	1.13
1:a:178:ILE:HG22	1:a:241:LEU:HD23	1.26	1.13
1:K:120:PHE:CE1	1:K:124:ASN:HB2	1.84	1.13
1:M:241:LEU:HD11	1:M:263:LEU:HD23	1.31	1.13
1:O:269:LYS:O	1:O:273:ASP:CB	1.96	1.13
1:Q:87:PHE:CE2	2:R:83:GLY:N	2.14	1.13
1:U:102:MET:HE3	1:U:172:CYS:SG	1.88	1.13
1:Y:114:TYR:O	1:Y:117:ASN:O	1.67	1.13
1:Y:518:LEU:HD11	1:Y:646:UNK:O	1.45	1.12
1:a:120:PHE:CE1	1:a:124:ASN:HB2	1.84	1.12
1:a:269:LYS:O	1:a:273:ASP:CB	1.96	1.12
1:c:120:PHE:CE1	1:c:124:ASN:HB2	1.84	1.12
1:c:241:LEU:HD11	1:c:263:LEU:HD23	1.31	1.13
1:e:87:PHE:O	1:e:91:PRO:CD	1.96	1.13
1:E:120:PHE:CE1	1:E:124:ASN:HB2	1.84	1.12
1:G:87:PHE:O	1:G:91:PRO:CD	1.96	1.12
1:K:374:VAL:HG22	1:K:375:PHE:CE1	1.83	1.12
1:M:120:PHE:CE1	1:M:124:ASN:HB2	1.84	1.12
1:O:120:PHE:CE1	1:O:124:ASN:HB2	1.84	1.12
1:U:120:PHE:CE1	1:U:124:ASN:HB2	1.84	1.12
1:U:371:ARG:CB	1:U:389:ILE:CD1	2.17	1.12
1:e:120:PHE:CE1	1:e:124:ASN:HB2	1.84	1.12
1:e:374:VAL:HG22	1:e:375:PHE:CE1	1.83	1.12
1:A:269:LYS:O	1:A:273:ASP:CB	1.96	1.12
1:A:374:VAL:HG22	1:A:375:PHE:CE1	1.83	1.12
1:C:35:MET:HE2	1:C:39:ILE:HD13	1.24	1.12
1:E:178:ILE:CG2	1:E:241:LEU:HD23	1.79	1.12
1:G:120:PHE:CE1	1:G:124:ASN:HB2	1.84	1.12
1:G:151:GLY:HA2	1:G:286:ASP:OD2	1.50	1.12
1:I:374:VAL:HG22	1:I:375:PHE:CE1	1.83	1.12
1:K:243:VAL:HG12	1:K:263:LEU:HG	1.13	1.12
1:O:151:GLY:HA2	1:O:286:ASP:OD2	1.50	1.12
1:Q:87:PHE:O	1:Q:91:PRO:CD	1.96	1.12
1:Q:120:PHE:CE1	1:Q:124:ASN:HB2	1.84	1.12
1:Q:783:UNK:CB	1:Q:817:UNK:CB	2.28	1.12

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:S:151:GLY:HA2	1:S:286:ASP:OD2	1.50	1.12
1:S:374:VAL:HG22	1:S:375:PHE:CE1	1.83	1.12
1:U:178:ILE:CG2	1:U:241:LEU:HD23	1.79	1.12
1:U:243:VAL:HG12	1:U:263:LEU:HG	1.13	1.12
1:W:360:LEU:HG	1:W:365:TYR:HB3	1.14	1.12
1:Y:783:UNK:CB	1:Y:817:UNK:CB	2.28	1.12
1:c:87:PHE:CE2	2:d:83:GLY:N	2.14	1.12
1:c:151:GLY:HA2	1:c:286:ASP:OD2	1.50	1.12
1:A:151:GLY:HA2	1:A:286:ASP:OD2	1.50	1.12
1:C:178:ILE:CG2	1:C:241:LEU:HD23	1.80	1.12
1:C:410:LEU:CB	1:C:423:PRO:CG	1.76	1.12
1:E:371:ARG:CB	1:E:389:ILE:CD1	2.17	1.12
1:G:374:VAL:HG22	1:G:375:PHE:CE1	1.83	1.12
1:I:151:GLY:HA2	1:I:286:ASP:OD2	1.50	1.12
1:I:269:LYS:O	1:I:273:ASP:CB	1.96	1.12
1:K:195:MET:HE3	1:K:198:LYS:HE2	1.32	1.12
1:M:87:PHE:CE2	2:N:83:GLY:N	2.14	1.12
1:M:518:LEU:HD11	1:M:646:UNK:O	1.45	1.12
1:Q:87:PHE:CE2	2:R:83:GLY:HA2	1.82	1.12
1:Q:178:ILE:CG2	1:Q:241:LEU:HD23	1.79	1.12
1:Q:207:TRP:NE1	1:Q:227:GLU:HG2	1.65	1.12
1:Q:518:LEU:HD11	1:Q:646:UNK:O	1.45	1.12
1:S:87:PHE:O	1:S:91:PRO:CD	1.96	1.12
1:S:120:PHE:CE1	1:S:124:ASN:HB2	1.84	1.12
1:U:195:MET:HE3	1:U:198:LYS:HE2	1.32	1.12
1:W:35:MET:HE2	1:W:39:ILE:HD13	1.24	1.12
1:W:178:ILE:CG2	1:W:241:LEU:HD23	1.80	1.12
1:Y:87:PHE:O	1:Y:91:PRO:CD	1.96	1.12
1:Y:120:PHE:CE1	1:Y:124:ASN:HB2	1.84	1.12
1:Y:207:TRP:NE1	1:Y:227:GLU:HG2	1.65	1.12
1:a:783:UNK:CB	1:a:817:UNK:CB	2.28	1.12
1:e:195:MET:HE3	1:e:198:LYS:HE2	1.32	1.12
1:e:243:VAL:HG12	1:e:263:LEU:HG	1.13	1.12
1:e:783:UNK:CB	1:e:817:UNK:CB	2.28	1.12
1:A:120:PHE:CE1	1:A:124:ASN:HB2	1.84	1.12
1:A:783:UNK:CB	1:A:817:UNK:CB	2.28	1.12
1:C:207:TRP:NE1	1:C:227:GLU:HG2	1.65	1.12
1:C:360:LEU:HG	1:C:365:TYR:HB3	1.14	1.12
1:E:114:TYR:O	1:E:117:ASN:O	1.67	1.12
1:E:195:MET:HE3	1:E:198:LYS:HE2	1.32	1.12
1:E:243:VAL:HG12	1:E:263:LEU:HG	1.13	1.12

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:35:MET:HE2	1:G:39:ILE:HD13	1.24	1.12
1:I:783:UNK:CB	1:I:817:UNK:CB	2.28	1.12
1:K:193:LEU:HD12	1:K:217:ILE:HG13	1.29	1.12
1:K:410:LEU:CB	1:K:423:PRO:CD	2.22	1.12
1:K:783:UNK:CB	1:K:817:UNK:CB	2.28	1.12
1:M:39:ILE:HG12	1:M:40:LEU:HD23	1.26	1.12
1:M:151:GLY:HA2	1:M:286:ASP:OD2	1.50	1.12
1:M:353:ILE:HG22	1:M:426:TYR:HB3	1.14	1.12
1:M:374:VAL:HG22	1:M:375:PHE:CE1	1.83	1.12
1:O:783:UNK:CB	1:O:817:UNK:CB	2.28	1.12
1:Q:357:LEU:HD13	1:Q:366:ARG:HD2	1.14	1.12
1:S:35:MET:HE2	1:S:39:ILE:HD13	1.24	1.12
1:U:87:PHE:CE2	2:V:83:GLY:HA2	1.82	1.12
1:U:114:TYR:O	1:U:117:ASN:O	1.67	1.12
1:W:207:TRP:NE1	1:W:227:GLU:HG2	1.65	1.12
1:Y:87:PHE:CE2	2:Z:83:GLY:HA2	1.82	1.12
1:Y:178:ILE:CG2	1:Y:241:LEU:HD23	1.79	1.12
1:a:151:GLY:HA2	1:a:286:ASP:OD2	1.50	1.12
1:c:374:VAL:HG22	1:c:375:PHE:CE1	1.83	1.12
1:c:783:UNK:CB	1:c:817:UNK:CB	2.28	1.12
1:e:410:LEU:CB	1:e:423:PRO:CD	2.22	1.12
1:A:39:ILE:HG12	1:A:40:LEU:HD23	1.26	1.12
1:C:783:UNK:CB	1:C:817:UNK:CB	2.28	1.12
1:E:87:PHE:CE2	2:F:83:GLY:HA2	1.82	1.12
1:E:151:GLY:HA2	1:E:286:ASP:OD2	1.50	1.12
1:G:243:VAL:HG12	1:G:263:LEU:HG	1.13	1.12
1:G:783:UNK:CB	1:G:817:UNK:CB	2.28	1.12
1:I:87:PHE:HE2	2:J:83:GLY:CA	1.61	1.12
1:I:120:PHE:CE1	1:I:124:ASN:HB2	1.84	1.12
1:M:783:UNK:CB	1:M:817:UNK:CB	2.28	1.12
1:O:178:ILE:CG2	1:O:241:LEU:HD23	1.80	1.12
1:Q:372:LEU:CD1	1:Q:422:ILE:HG13	1.80	1.12
1:S:783:UNK:CB	1:S:817:UNK:CB	2.28	1.12
1:W:783:UNK:CB	1:W:817:UNK:CB	2.28	1.12
1:Y:357:LEU:HD13	1:Y:366:ARG:HD2	1.14	1.12
1:Y:372:LEU:CD1	1:Y:422:ILE:HG13	1.80	1.12
1:Y:374:VAL:CG2	1:Y:375:PHE:CE1	2.33	1.12
1:c:39:ILE:HG12	1:c:40:LEU:HD23	1.26	1.12
1:c:114:TYR:O	1:c:117:ASN:O	1.67	1.12
1:c:269:LYS:O	1:c:273:ASP:CB	1.96	1.12
1:c:353:ILE:HG22	1:c:426:TYR:HB3	1.14	1.12

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:c:518:LEU:HD11	1:c:646:UNK:O	1.45	1.12
1:e:269:LYS:O	1:e:273:ASP:CB	1.96	1.12
1:A:422:ILE:HB	1:A:427:LEU:HD12	1.29	1.11
1:C:357:LEU:HD11	1:C:430:LYS:HE3	1.27	1.11
1:E:374:VAL:HG22	1:E:375:PHE:CE1	1.83	1.11
1:G:178:ILE:CG2	1:G:241:LEU:HD23	1.80	1.11
2:H:62:MET:HE2	2:H:62:MET:HA	1.19	1.11
1:K:269:LYS:O	1:K:273:ASP:CB	1.96	1.11
1:M:114:TYR:O	1:M:117:ASN:O	1.67	1.11
1:O:374:VAL:CG2	1:O:375:PHE:CE1	2.33	1.11
1:Q:374:VAL:CG2	1:Q:375:PHE:CE1	2.33	1.11
1:S:178:ILE:CG2	1:S:241:LEU:HD23	1.80	1.11
1:U:151:GLY:HA2	1:U:286:ASP:OD2	1.50	1.11
1:U:374:VAL:HG22	1:U:375:PHE:CE1	1.83	1.11
1:W:357:LEU:HD11	1:W:430:LYS:HE3	1.27	1.11
1:W:374:VAL:CG2	1:W:375:PHE:CE1	2.33	1.11
1:W:410:LEU:CB	1:W:423:PRO:CG	1.76	1.11
1:a:178:ILE:CG2	1:a:241:LEU:HD23	1.80	1.11
1:c:195:MET:HE3	1:c:198:LYS:HE2	1.32	1.11
1:e:193:LEU:HD12	1:e:217:ILE:HG13	1.29	1.11
1:e:348:LYS:O	1:e:352:ILE:CD1	1.96	1.11
1:A:87:PHE:HE2	2:B:83:GLY:CA	1.61	1.11
1:C:374:VAL:CG2	1:C:375:PHE:CE1	2.33	1.11
1:E:138:LEU:HD23	1:E:170:VAL:HG11	1.21	1.11
1:E:374:VAL:CG2	1:E:375:PHE:CE1	2.33	1.11
1:E:783:UNK:CB	1:E:817:UNK:CB	2.28	1.11
1:I:195:MET:HE3	1:I:198:LYS:HE2	1.32	1.11
1:I:422:ILE:HB	1:I:427:LEU:HD12	1.29	1.11
1:K:348:LYS:O	1:K:352:ILE:CD1	1.96	1.11
1:K:460:PRO:HG2	1:K:462:TYR:CE2	1.85	1.11
1:M:269:LYS:O	1:M:273:ASP:CB	1.96	1.11
2:T:62:MET:HA	2:T:62:MET:HE2	1.19	1.11
1:U:207:TRP:NE1	1:U:227:GLU:HG2	1.65	1.11
1:U:783:UNK:CB	1:U:817:UNK:CB	2.28	1.11
2:V:62:MET:HE2	2:V:62:MET:HA	1.19	1.11
1:Y:39:ILE:HG12	1:Y:40:LEU:HD23	1.26	1.11
1:a:371:ARG:CB	1:a:389:ILE:CD1	2.17	1.11
1:a:374:VAL:CG2	1:a:375:PHE:CE1	2.33	1.11
1:a:460:PRO:HG2	1:a:462:TYR:CE2	1.85	1.11
1:e:460:PRO:HG2	1:e:462:TYR:CE2	1.85	1.11
1:A:193:LEU:HD12	1:A:217:ILE:HG13	1.29	1.11

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:195:MET:HE3	1:A:198:LYS:HE2	1.32	1.11
1:A:207:TRP:NE1	1:A:227:GLU:HG2	1.65	1.11
1:A:243:VAL:HG12	1:A:263:LEU:HG	1.13	1.11
1:E:207:TRP:NE1	1:E:227:GLU:HG2	1.65	1.11
1:G:460:PRO:HG2	1:G:462:TYR:CE2	1.85	1.11
1:I:374:VAL:CG2	1:I:375:PHE:CE1	2.33	1.11
1:M:133:LYS:HB3	1:M:283:ILE:HD11	1.12	1.11
1:M:178:ILE:CG2	1:M:241:LEU:HD23	1.79	1.11
1:M:195:MET:HE3	1:M:198:LYS:HE2	1.32	1.11
1:O:207:TRP:NE1	1:O:227:GLU:HG2	1.65	1.11
1:O:422:ILE:HB	1:O:427:LEU:HD12	1.29	1.11
1:O:460:PRO:HG2	1:O:462:TYR:CE2	1.85	1.11
1:Q:39:ILE:C	1:Q:40:LEU:HD23	1.75	1.11
1:Q:192:VAL:HG21	1:Q:221:ILE:CD1	1.76	1.11
1:S:243:VAL:HG12	1:S:263:LEU:HG	1.13	1.11
1:S:460:PRO:HG2	1:S:462:TYR:CE2	1.85	1.11
1:U:138:LEU:HD23	1:U:170:VAL:HG11	1.21	1.11
1:U:374:VAL:CG2	1:U:375:PHE:CE1	2.33	1.11
1:W:372:LEU:CD1	1:W:422:ILE:HG13	1.80	1.11
1:W:422:ILE:HG22	1:W:423:PRO:HD2	1.14	1.11
1:Y:357:LEU:HD11	1:Y:430:LYS:CE	1.81	1.11
2:Z:62:MET:HE2	2:Z:62:MET:HA	1.19	1.11
1:c:372:LEU:CD1	1:c:422:ILE:HG13	1.80	1.11
1:e:207:TRP:NE1	1:e:227:GLU:HG2	1.65	1.11
1:A:19:PHE:CZ	1:A:92:ILE:CD1	2.34	1.11
1:A:178:ILE:CG2	1:A:241:LEU:HD23	1.79	1.11
1:A:374:VAL:CG2	1:A:375:PHE:CE1	2.33	1.11
1:C:353:ILE:HG22	1:C:426:TYR:HB3	1.14	1.11
1:C:372:LEU:CD1	1:C:422:ILE:HG13	1.80	1.11
1:G:357:LEU:HD11	1:G:430:LYS:CE	1.81	1.11
1:I:39:ILE:HG12	1:I:40:LEU:HD23	1.26	1.11
1:I:178:ILE:CG2	1:I:241:LEU:HD23	1.79	1.11
1:I:207:TRP:NE1	1:I:227:GLU:HG2	1.65	1.11
1:K:207:TRP:NE1	1:K:227:GLU:HG2	1.65	1.11
2:L:62:MET:HE2	2:L:62:MET:HA	1.19	1.11
1:M:372:LEU:CD1	1:M:422:ILE:HG13	1.80	1.11
1:O:39:ILE:C	1:O:40:LEU:HD23	1.75	1.11
1:O:371:ARG:CB	1:O:389:ILE:CD1	2.17	1.11
1:O:372:LEU:CD1	1:O:422:ILE:HG13	1.80	1.11
1:Q:39:ILE:HG12	1:Q:40:LEU:HD23	1.26	1.11
1:Q:138:LEU:CD2	1:Q:170:VAL:CG1	2.28	1.11

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Q:357:LEU:HD11	1:Q:430:LYS:CE	1.81	1.11
1:S:207:TRP:NE1	1:S:227:GLU:HG2	1.65	1.11
1:S:357:LEU:HD11	1:S:430:LYS:CE	1.81	1.11
1:S:374:VAL:CG2	1:S:375:PHE:CE1	2.33	1.11
1:Y:39:ILE:C	1:Y:40:LEU:HD23	1.75	1.11
1:Y:138:LEU:CD2	1:Y:170:VAL:CG1	2.28	1.11
1:a:39:ILE:C	1:a:40:LEU:HD23	1.75	1.11
1:a:207:TRP:NE1	1:a:227:GLU:HG2	1.65	1.11
1:a:372:LEU:CD1	1:a:422:ILE:HG13	1.80	1.11
1:c:178:ILE:CG2	1:c:241:LEU:HD23	1.79	1.11
1:c:360:LEU:HG	1:c:365:TYR:HB3	1.14	1.11
1:e:151:GLY:HA2	1:e:286:ASP:OD2	1.50	1.11
2:f:62:MET:HE2	2:f:62:MET:HA	1.19	1.11
1:A:357:LEU:HD11	1:A:430:LYS:CE	1.81	1.11
1:C:195:MET:HE3	1:C:198:LYS:HE2	1.32	1.11
1:C:357:LEU:HD11	1:C:430:LYS:CE	1.81	1.11
1:C:422:ILE:HG22	1:C:423:PRO:HD2	1.14	1.11
2:F:62:MET:HE2	2:F:62:MET:HA	1.19	1.11
1:G:207:TRP:NE1	1:G:227:GLU:HG2	1.65	1.11
1:G:369:PHE:CZ	1:G:410:LEU:CG	2.28	1.11
1:G:374:VAL:CG2	1:G:375:PHE:CE1	2.33	1.11
1:I:19:PHE:CZ	1:I:92:ILE:CD1	2.34	1.11
1:I:193:LEU:HD12	1:I:217:ILE:HG13	1.29	1.11
1:I:243:VAL:HG12	1:I:263:LEU:HG	1.13	1.11
1:I:357:LEU:HD11	1:I:430:LYS:CE	1.81	1.11
1:K:151:GLY:HA2	1:K:286:ASP:OD2	1.50	1.11
1:M:357:LEU:CD1	1:M:430:LYS:HZ1	1.57	1.11
1:O:19:PHE:CZ	1:O:92:ILE:CD1	2.34	1.11
1:S:19:PHE:CZ	1:S:92:ILE:CD1	2.34	1.11
1:W:120:PHE:CE1	1:W:124:ASN:HB2	1.84	1.11
1:W:195:MET:HE3	1:W:198:LYS:HE2	1.32	1.11
1:Y:192:VAL:HG21	1:Y:221:ILE:CD1	1.76	1.11
1:a:19:PHE:CZ	1:a:92:ILE:CD1	2.34	1.11
1:c:133:LYS:HB3	1:c:283:ILE:HD11	1.12	1.11
1:C:120:PHE:CE1	1:C:124:ASN:HB2	1.84	1.10
1:G:19:PHE:CZ	1:G:92:ILE:CD1	2.34	1.10
1:G:410:LEU:CA	1:G:426:TYR:HE1	1.65	1.10
1:K:19:PHE:CZ	1:K:92:ILE:CD1	2.34	1.10
1:M:374:VAL:CG2	1:M:375:PHE:CE1	2.33	1.10
1:O:138:LEU:HD23	1:O:170:VAL:HG11	1.21	1.10
1:Q:19:PHE:CZ	1:Q:92:ILE:CD1	2.34	1.10

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:S:410:LEU:CA	1:S:426:TYR:HE1	1.65	1.10
1:W:357:LEU:HD11	1:W:430:LYS:CE	1.81	1.10
1:Y:19:PHE:CZ	1:Y:92:ILE:CD1	2.34	1.10
1:a:138:LEU:HD23	1:a:170:VAL:HG11	1.21	1.10
1:a:422:ILE:HB	1:a:427:LEU:HD12	1.29	1.10
1:c:374:VAL:CG2	1:c:375:PHE:CE1	2.33	1.10
1:c:422:ILE:HG22	1:c:423:PRO:HD2	1.14	1.10
1:e:19:PHE:CZ	1:e:92:ILE:CD1	2.34	1.10
1:A:410:LEU:CA	1:A:426:TYR:HE1	1.64	1.10
1:C:39:ILE:C	1:C:40:LEU:HD23	1.75	1.10
1:C:151:GLY:HA2	1:C:286:ASP:OD2	1.50	1.10
1:C:327:ILE:CD1	1:C:341:TRP:CZ3	2.34	1.10
1:E:88:LEU:O	1:E:91:PRO:CD	1.99	1.10
1:E:287:HIS:ND1	1:E:288:HIS:CD2	2.20	1.10
1:E:410:LEU:CA	1:E:426:TYR:HE1	1.64	1.10
1:G:39:ILE:HG12	1:G:40:LEU:HD23	1.26	1.10
1:K:35:MET:HE2	1:K:39:ILE:HD13	1.24	1.10
1:K:114:TYR:O	1:K:117:ASN:O	1.67	1.10
1:K:357:LEU:HD11	1:K:430:LYS:CE	1.81	1.10
1:K:372:LEU:CD1	1:K:422:ILE:HG13	1.80	1.10
1:K:374:VAL:CG2	1:K:375:PHE:CE1	2.33	1.10
1:M:19:PHE:CZ	1:M:92:ILE:CD1	2.34	1.10
1:M:192:VAL:HG21	1:M:221:ILE:CD1	1.76	1.10
1:M:422:ILE:HG22	1:M:423:PRO:HD2	1.14	1.10
1:O:287:HIS:ND1	1:O:288:HIS:CD2	2.20	1.10
2:R:62:MET:HE2	2:R:62:MET:HA	1.19	1.10
1:S:195:MET:HE3	1:S:198:LYS:HE2	1.32	1.10
1:S:369:PHE:CZ	1:S:410:LEU:CG	2.28	1.10
1:U:88:LEU:O	1:U:91:PRO:CD	1.99	1.10
1:U:287:HIS:ND1	1:U:288:HIS:CD2	2.20	1.10
1:U:357:LEU:HD13	1:U:366:ARG:HD2	1.14	1.10
1:U:410:LEU:CA	1:U:426:TYR:HE1	1.64	1.10
1:W:327:ILE:CD1	1:W:341:TRP:CZ3	2.34	1.10
1:W:353:ILE:HG22	1:W:426:TYR:HB3	1.14	1.10
1:Y:327:ILE:CD1	1:Y:341:TRP:CZ3	2.34	1.10
1:a:287:HIS:ND1	1:a:288:HIS:CD2	2.20	1.10
1:c:19:PHE:CZ	1:c:92:ILE:CD1	2.34	1.10
1:e:24:VAL:HG22	1:e:58:THR:HG21	1.12	1.10
1:e:35:MET:HE2	1:e:39:ILE:HD13	1.24	1.10
1:e:357:LEU:HD11	1:e:430:LYS:CE	1.81	1.10
1:e:360:LEU:HG	1:e:365:TYR:HB3	1.14	1.10

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:e:372:LEU:CD1	1:e:422:ILE:HG13	1.80	1.10
1:e:374:VAL:CG2	1:e:375:PHE:CE1	2.33	1.10
1:C:88:LEU:O	1:C:91:PRO:CD	1.99	1.10
1:C:243:VAL:HG12	1:C:263:LEU:HG	1.13	1.10
1:E:192:VAL:HG21	1:E:221:ILE:CD1	1.76	1.10
1:E:357:LEU:HD13	1:E:366:ARG:HD2	1.14	1.10
1:G:114:TYR:O	1:G:117:ASN:O	1.67	1.10
1:G:372:LEU:CD1	1:G:422:ILE:HG13	1.80	1.10
1:I:410:LEU:CA	1:I:426:TYR:HE1	1.64	1.10
1:I:460:PRO:HG2	1:I:462:TYR:CE2	1.85	1.10
1:K:24:VAL:HG22	1:K:58:THR:HG21	1.12	1.10
1:M:357:LEU:HD11	1:M:430:LYS:CE	1.81	1.10
1:M:460:PRO:HG2	1:M:462:TYR:CE2	1.85	1.10
1:O:87:PHE:CE2	2:P:83:GLY:HA2	1.82	1.10
1:Q:327:ILE:CD1	1:Q:341:TRP:CZ3	2.34	1.10
1:Q:382:PRO:HB3	1:Q:463:LEU:HD22	1.32	1.10
1:S:114:TYR:O	1:S:117:ASN:O	1.67	1.10
1:S:372:LEU:CD1	1:S:422:ILE:HG13	1.80	1.10
1:U:19:PHE:CZ	1:U:92:ILE:CD1	2.34	1.10
1:U:192:VAL:HG21	1:U:221:ILE:CD1	1.76	1.10
1:U:348:LYS:O	1:U:352:ILE:HD13	1.52	1.10
1:W:138:LEU:CD2	1:W:170:VAL:CG1	2.28	1.10
1:Y:460:PRO:HG2	1:Y:462:TYR:CE2	1.85	1.10
1:a:241:LEU:HD11	1:a:263:LEU:HD23	1.31	1.10
1:c:138:LEU:HD23	1:c:170:VAL:HG11	1.21	1.10
1:c:207:TRP:NE1	1:c:227:GLU:HG2	1.65	1.10
1:e:114:TYR:O	1:e:117:ASN:O	1.67	1.10
1:A:24:VAL:HG22	1:A:58:THR:HG21	1.12	1.10
1:A:241:LEU:HD11	1:A:263:LEU:HD23	1.31	1.10
1:A:460:PRO:HG2	1:A:462:TYR:CE2	1.85	1.10
1:C:19:PHE:CZ	1:C:92:ILE:CD1	2.34	1.10
1:C:138:LEU:CD2	1:C:170:VAL:CG1	2.28	1.10
1:C:357:LEU:HD12	1:C:430:LYS:HZ1	0.96	1.10
1:E:19:PHE:CZ	1:E:92:ILE:CD1	2.34	1.10
1:E:348:LYS:O	1:E:352:ILE:HD13	1.52	1.10
1:G:39:ILE:C	1:G:40:LEU:HD23	1.75	1.10
1:G:195:MET:HE3	1:G:198:LYS:HE2	1.32	1.10
1:G:422:ILE:HG22	1:G:423:PRO:HD2	1.14	1.10
1:K:192:VAL:HG21	1:K:221:ILE:CD1	1.76	1.10
1:K:360:LEU:HG	1:K:365:TYR:HB3	1.14	1.10
1:K:424:SER:HA	1:K:427:LEU:HB3	1.18	1.10

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:O:192:VAL:HG21	1:O:221:ILE:CD1	1.76	1.10
1:O:357:LEU:HD11	1:O:430:LYS:HE3	1.27	1.10
1:Q:133:LYS:HB3	1:Q:283:ILE:HD11	1.12	1.10
1:S:39:ILE:C	1:S:40:LEU:HD23	1.75	1.10
1:U:327:ILE:CD1	1:U:341:TRP:CZ3	2.34	1.10
1:U:424:SER:HA	1:U:427:LEU:HB3	1.19	1.10
1:W:19:PHE:CZ	1:W:92:ILE:CD1	2.34	1.10
1:W:39:ILE:C	1:W:40:LEU:HD23	1.75	1.10
1:W:88:LEU:O	1:W:91:PRO:CD	1.99	1.10
1:W:151:GLY:HA2	1:W:286:ASP:OD2	1.50	1.10
1:Y:382:PRO:HB3	1:Y:463:LEU:HD22	1.32	1.10
1:Y:422:ILE:HG22	1:Y:423:PRO:HD2	1.14	1.10
1:a:87:PHE:CE2	2:b:83:GLY:HA2	1.82	1.10
1:a:357:LEU:HD11	1:a:430:LYS:CE	1.81	1.10
1:c:192:VAL:HG21	1:c:221:ILE:CD1	1.76	1.10
1:c:357:LEU:HD11	1:c:430:LYS:CE	1.81	1.10
1:c:460:PRO:HG2	1:c:462:TYR:CE2	1.85	1.10
1:e:348:LYS:O	1:e:352:ILE:HD13	1.52	1.10
1:A:357:LEU:HD11	1:A:430:LYS:HE3	1.27	1.10
1:C:39:ILE:HG12	1:C:40:LEU:CD2	1.82	1.10
1:C:287:HIS:ND1	1:C:288:HIS:CD2	2.20	1.10
1:C:410:LEU:CA	1:C:426:TYR:HE1	1.65	1.10
1:C:460:PRO:HG2	1:C:462:TYR:CE2	1.85	1.10
1:E:39:ILE:HG12	1:E:40:LEU:CD2	1.82	1.10
1:E:327:ILE:CD1	1:E:341:TRP:CZ3	2.34	1.10
1:I:24:VAL:HG22	1:I:58:THR:HG21	1.12	1.10
1:I:241:LEU:HD11	1:I:263:LEU:HD23	1.31	1.10
1:I:357:LEU:HD11	1:I:430:LYS:HE3	1.27	1.10
1:K:102:MET:HE3	1:K:172:CYS:SG	1.92	1.10
1:K:348:LYS:O	1:K:352:ILE:HD13	1.52	1.10
1:M:39:ILE:HG12	1:M:40:LEU:CD2	1.82	1.10
1:M:207:TRP:NE1	1:M:227:GLU:HG2	1.65	1.10
1:O:39:ILE:HG12	1:O:40:LEU:CD2	1.82	1.10
1:Q:422:ILE:HG22	1:Q:423:PRO:HD2	1.14	1.10
1:Q:460:PRO:HG2	1:Q:462:TYR:CE2	1.85	1.10
1:S:327:ILE:CD1	1:S:341:TRP:CZ3	2.34	1.10
1:U:39:ILE:HG12	1:U:40:LEU:CD2	1.82	1.10
1:U:357:LEU:HD11	1:U:430:LYS:CE	1.81	1.10
1:U:410:LEU:CB	1:U:423:PRO:CD	2.22	1.10
1:W:39:ILE:HG12	1:W:40:LEU:CD2	1.82	1.10
1:W:243:VAL:HG12	1:W:263:LEU:HG	1.13	1.10

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Y:133:LYS:HB3	1:Y:283:ILE:HD11	1.12	1.10
1:a:424:SER:HA	1:a:427:LEU:HB3	1.18	1.10
1:c:39:ILE:HG12	1:c:40:LEU:CD2	1.82	1.10
1:c:88:LEU:O	1:c:91:PRO:CD	1.99	1.10
1:e:102:MET:HE3	1:e:172:CYS:SG	1.92	1.10
1:e:410:LEU:CA	1:e:426:TYR:HE1	1.65	1.10
1:C:192:VAL:HG21	1:C:221:ILE:CD1	1.76	1.09
1:C:193:LEU:HD12	1:C:217:ILE:HG13	1.29	1.09
1:E:353:ILE:HG22	1:E:426:TYR:HB3	1.14	1.09
1:E:357:LEU:HD11	1:E:430:LYS:CE	1.81	1.09
1:G:192:VAL:HG21	1:G:221:ILE:CD1	1.76	1.09
1:G:327:ILE:CD1	1:G:341:TRP:CZ3	2.34	1.09
1:K:410:LEU:CA	1:K:426:TYR:HE1	1.65	1.09
1:M:24:VAL:HG22	1:M:58:THR:HG21	1.12	1.09
1:M:39:ILE:C	1:M:40:LEU:HD23	1.75	1.09
1:M:88:LEU:O	1:M:91:PRO:CD	1.99	1.09
1:M:102:MET:HE3	1:M:172:CYS:SG	1.92	1.09
1:M:138:LEU:HD23	1:M:170:VAL:HG11	1.21	1.09
1:O:193:LEU:HD12	1:O:217:ILE:HG13	1.29	1.09
1:O:241:LEU:HD11	1:O:263:LEU:HD23	1.31	1.09
1:O:327:ILE:CD1	1:O:341:TRP:CZ3	2.34	1.09
1:O:357:LEU:HD11	1:O:430:LYS:CE	1.81	1.09
1:O:365:TYR:CD1	1:O:405:LEU:CD2	2.34	1.09
1:Q:39:ILE:HG12	1:Q:40:LEU:CD2	1.82	1.09
1:S:39:ILE:HG12	1:S:40:LEU:HD23	1.26	1.09
1:U:39:ILE:C	1:U:40:LEU:HD23	1.75	1.09
1:U:353:ILE:HG22	1:U:426:TYR:HB3	1.14	1.09
1:W:193:LEU:HD12	1:W:217:ILE:HG13	1.29	1.09
1:W:287:HIS:ND1	1:W:288:HIS:CD2	2.20	1.09
1:W:371:ARG:CG	1:W:389:ILE:CD1	2.13	1.09
1:W:410:LEU:CA	1:W:426:TYR:HE1	1.65	1.09
1:W:460:PRO:HG2	1:W:462:TYR:CE2	1.85	1.09
1:Y:39:ILE:HG12	1:Y:40:LEU:CD2	1.82	1.09
1:Y:287:HIS:ND1	1:Y:288:HIS:CD2	2.20	1.09
1:a:39:ILE:HG12	1:a:40:LEU:CD2	1.82	1.09
1:a:192:VAL:HG21	1:a:221:ILE:CD1	1.76	1.09
1:a:193:LEU:HD12	1:a:217:ILE:HG13	1.29	1.09
1:a:327:ILE:CD1	1:a:341:TRP:CZ3	2.34	1.09
1:a:357:LEU:HD11	1:a:430:LYS:HE3	1.27	1.09
1:c:24:VAL:HG22	1:c:58:THR:HG21	1.12	1.09
1:c:39:ILE:C	1:c:40:LEU:HD23	1.75	1.09

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:c:243:VAL:HG12	1:c:263:LEU:HG	1.13	1.09
1:e:133:LYS:HB3	1:e:283:ILE:HD11	1.12	1.09
1:e:192:VAL:HG21	1:e:221:ILE:CD1	1.76	1.09
1:e:424:SER:HA	1:e:427:LEU:HB3	1.18	1.09
1:A:114:TYR:O	1:A:117:ASN:O	1.67	1.09
1:C:371:ARG:CG	1:C:389:ILE:CD1	2.13	1.09
1:E:39:ILE:C	1:E:40:LEU:HD23	1.75	1.09
1:E:372:LEU:CD1	1:E:422:ILE:HG13	1.80	1.09
1:E:410:LEU:CB	1:E:423:PRO:CD	2.22	1.09
1:E:424:SER:HA	1:E:427:LEU:HB3	1.19	1.09
1:G:87:PHE:CE2	2:H:83:GLY:HA2	1.82	1.09
1:G:102:MET:HE3	1:G:172:CYS:SG	1.92	1.09
1:G:295:ASP:O	1:G:298:LYS:HG2	1.53	1.09
1:G:357:LEU:HD11	1:G:430:LYS:HE3	1.27	1.09
1:I:114:TYR:O	1:I:117:ASN:O	1.67	1.09
1:K:39:ILE:HG12	1:K:40:LEU:CD2	1.82	1.09
1:O:195:MET:HE3	1:O:198:LYS:HE2	1.32	1.09
1:O:382:PRO:HB3	1:O:463:LEU:HD22	1.32	1.09
1:Q:87:PHE:HE2	2:R:83:GLY:CA	1.61	1.09
1:Q:151:GLY:HA2	1:Q:286:ASP:OD2	1.50	1.09
1:Q:195:MET:HE3	1:Q:198:LYS:HE2	1.32	1.09
1:Q:287:HIS:ND1	1:Q:288:HIS:CD2	2.20	1.09
1:S:87:PHE:CE2	2:T:83:GLY:HA2	1.82	1.09
1:S:102:MET:HE3	1:S:172:CYS:SG	1.92	1.09
1:S:295:ASP:O	1:S:298:LYS:HG2	1.53	1.09
1:S:422:ILE:HG22	1:S:423:PRO:HD2	1.14	1.09
1:U:357:LEU:CD1	1:U:430:LYS:CE	2.31	1.09
1:U:372:LEU:CD1	1:U:422:ILE:HG13	1.80	1.09
1:U:422:ILE:HG22	1:U:423:PRO:HD2	1.14	1.09
1:W:192:VAL:HG21	1:W:221:ILE:CD1	1.76	1.09
1:Y:243:VAL:HG12	1:Y:263:LEU:HG	1.13	1.09
1:a:133:LYS:HB3	1:a:283:ILE:HD11	1.12	1.09
1:a:365:TYR:CD1	1:a:405:LEU:CD2	2.34	1.09
1:a:422:ILE:HG22	1:a:423:PRO:HD2	1.14	1.09
1:c:102:MET:HE3	1:c:172:CYS:SG	1.92	1.09
1:c:382:PRO:HB3	1:c:463:LEU:HD22	1.32	1.09
1:e:287:HIS:ND1	1:e:288:HIS:CD2	2.20	1.09
1:A:39:ILE:C	1:A:40:LEU:HD23	1.75	1.09
1:A:360:LEU:HG	1:A:365:TYR:HB3	1.14	1.09
1:C:422:ILE:HB	1:C:427:LEU:HD12	1.29	1.09
1:E:295:ASP:O	1:E:298:LYS:HG2	1.53	1.09

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:357:LEU:CD1	1:E:430:LYS:CE	2.31	1.09
1:I:39:ILE:C	1:I:40:LEU:HD23	1.75	1.09
1:K:133:LYS:HB3	1:K:283:ILE:HD11	1.12	1.09
1:K:178:ILE:CG2	1:K:241:LEU:HD23	1.80	1.09
1:M:87:PHE:HE2	2:N:83:GLY:CA	1.61	1.09
1:M:365:TYR:CD1	1:M:405:LEU:CD2	2.35	1.09
1:O:243:VAL:HG12	1:O:263:LEU:HG	1.13	1.09
1:O:422:ILE:HG22	1:O:423:PRO:HD2	1.14	1.09
1:O:424:SER:HA	1:O:427:LEU:HB3	1.18	1.09
1:Q:241:LEU:HD11	1:Q:263:LEU:HD23	1.31	1.09
1:Q:410:LEU:CA	1:Q:426:TYR:HE1	1.64	1.09
1:S:192:VAL:HG21	1:S:221:ILE:CD1	1.76	1.09
1:S:371:ARG:CB	1:S:389:ILE:CD1	2.17	1.09
1:S:410:LEU:CB	1:S:423:PRO:CD	2.22	1.09
1:U:295:ASP:O	1:U:298:LYS:HG2	1.53	1.09
1:Y:151:GLY:HA2	1:Y:286:ASP:OD2	1.50	1.09
1:Y:195:MET:HE3	1:Y:198:LYS:HE2	1.32	1.09
1:a:195:MET:HE3	1:a:198:LYS:HE2	1.32	1.09
1:e:39:ILE:HG12	1:e:40:LEU:CD2	1.82	1.09
1:C:195:MET:CE	1:C:198:LYS:HE2	1.83	1.09
1:C:357:LEU:CD1	1:C:430:LYS:CE	2.31	1.09
1:E:460:PRO:HG2	1:E:462:TYR:CE2	1.85	1.09
1:G:39:ILE:HG12	1:G:40:LEU:CD2	1.82	1.09
1:I:360:LEU:HG	1:I:365:TYR:HB3	1.14	1.09
1:I:372:LEU:CD1	1:I:422:ILE:HG13	1.80	1.09
1:K:365:TYR:CD1	1:K:405:LEU:CD2	2.34	1.09
1:M:243:VAL:HG12	1:M:263:LEU:HG	1.13	1.09
1:M:295:ASP:O	1:M:298:LYS:HG2	1.53	1.09
1:M:382:PRO:HB3	1:M:463:LEU:HD22	1.32	1.09
1:O:405:LEU:HD12	1:O:411:VAL:HG21	1.09	1.09
1:Q:195:MET:CE	1:Q:198:LYS:HE2	1.83	1.09
1:Q:243:VAL:HG12	1:Q:263:LEU:HG	1.13	1.09
1:Q:365:TYR:CD1	1:Q:405:LEU:CD2	2.35	1.09
1:Q:410:LEU:CB	1:Q:423:PRO:CG	1.76	1.09
1:S:39:ILE:HG12	1:S:40:LEU:CD2	1.82	1.09
1:S:86:LYS:HE2	1:S:89:MET:HE3	1.34	1.09
1:S:357:LEU:HD11	1:S:430:LYS:HE3	1.27	1.09
1:W:195:MET:CE	1:W:198:LYS:HE2	1.83	1.09
1:W:357:LEU:CD1	1:W:430:LYS:CE	2.31	1.09
1:W:410:LEU:CB	1:W:423:PRO:CD	2.22	1.09
1:Y:87:PHE:HE2	2:Z:83:GLY:CA	1.61	1.09

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Y:88:LEU:O	1:Y:91:PRO:CD	1.99	1.09
1:Y:195:MET:CE	1:Y:198:LYS:HE2	1.83	1.09
1:Y:410:LEU:CA	1:Y:426:TYR:HE1	1.64	1.09
1:a:88:LEU:O	1:a:91:PRO:CD	1.99	1.09
1:a:348:LYS:O	1:a:352:ILE:HD13	1.52	1.09
1:a:382:PRO:HB3	1:a:463:LEU:HD22	1.32	1.09
1:a:405:LEU:HD12	1:a:411:VAL:HG21	1.09	1.09
1:c:87:PHE:HE2	2:d:83:GLY:CA	1.61	1.09
1:c:295:ASP:O	1:c:298:LYS:HG2	1.53	1.09
1:c:365:TYR:CD1	1:c:405:LEU:CD2	2.35	1.09
1:e:178:ILE:CG2	1:e:241:LEU:HD23	1.80	1.09
1:e:295:ASP:O	1:e:298:LYS:HG2	1.53	1.09
1:A:287:HIS:ND1	1:A:288:HIS:CD2	2.20	1.09
1:A:295:ASP:O	1:A:298:LYS:HG2	1.53	1.09
1:A:327:ILE:CD1	1:A:341:TRP:CZ3	2.34	1.09
1:A:365:TYR:CD1	1:A:405:LEU:CD2	2.35	1.09
1:A:372:LEU:CD1	1:A:422:ILE:HG13	1.80	1.09
1:E:422:ILE:HG22	1:E:423:PRO:HD2	1.14	1.09
1:G:86:LYS:HE2	1:G:89:MET:HE3	1.34	1.09
1:G:186:CYS:O	1:G:191:THR:HG21	1.53	1.09
1:G:371:ARG:CB	1:G:389:ILE:CD1	2.17	1.09
1:I:287:HIS:ND1	1:I:288:HIS:CD2	2.20	1.09
1:I:365:TYR:CD1	1:I:405:LEU:CD2	2.35	1.09
1:K:287:HIS:ND1	1:K:288:HIS:CD2	2.20	1.09
1:K:295:ASP:O	1:K:298:LYS:HG2	1.53	1.09
1:K:353:ILE:HG22	1:K:426:TYR:HB3	1.14	1.09
1:K:422:ILE:HB	1:K:427:LEU:HD12	1.29	1.09
1:M:327:ILE:CD1	1:M:341:TRP:CZ3	2.34	1.09
1:M:357:LEU:CD1	1:M:430:LYS:CE	2.31	1.09
1:O:88:LEU:O	1:O:91:PRO:CD	1.99	1.09
1:O:133:LYS:HB3	1:O:283:ILE:HD11	1.12	1.09
1:O:410:LEU:CA	1:O:426:TYR:HE1	1.65	1.09
1:Q:88:LEU:O	1:Q:91:PRO:CD	1.99	1.09
1:S:186:CYS:O	1:S:191:THR:HG21	1.53	1.09
1:U:460:PRO:HG2	1:U:462:TYR:CE2	1.85	1.09
1:Y:192:VAL:CG2	1:Y:221:ILE:HD13	1.79	1.09
1:Y:241:LEU:HD11	1:Y:263:LEU:HD23	1.31	1.09
1:Y:365:TYR:CD1	1:Y:405:LEU:CD2	2.35	1.09
1:a:243:VAL:HG12	1:a:263:LEU:HG	1.13	1.09
1:c:327:ILE:CD1	1:c:341:TRP:CZ3	2.34	1.09
1:c:357:LEU:CD1	1:c:430:LYS:CE	2.31	1.09

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:c:410:LEU:CA	1:c:426:TYR:HE1	1.64	1.09
1:e:88:LEU:O	1:e:91:PRO:CD	1.99	1.09
1:e:353:ILE:HG22	1:e:426:TYR:HB3	1.14	1.09
1:e:365:TYR:CD1	1:e:405:LEU:CD2	2.34	1.09
1:A:88:LEU:O	1:A:91:PRO:CD	1.99	1.08
1:A:186:CYS:O	1:A:191:THR:HG21	1.53	1.08
1:C:410:LEU:CB	1:C:423:PRO:CD	2.22	1.08
1:E:35:MET:HE2	1:E:39:ILE:HD13	1.24	1.08
1:E:193:LEU:HD12	1:E:217:ILE:HG13	1.29	1.08
1:E:365:TYR:CD1	1:E:405:LEU:CD2	2.35	1.08
1:G:410:LEU:CB	1:G:423:PRO:CD	2.22	1.08
1:I:87:PHE:CE2	2:J:83:GLY:HA2	1.82	1.08
1:I:88:LEU:O	1:I:91:PRO:CD	1.99	1.08
1:I:186:CYS:O	1:I:191:THR:HG21	1.53	1.08
1:I:295:ASP:O	1:I:298:LYS:HG2	1.53	1.08
1:I:327:ILE:CD1	1:I:341:TRP:CZ3	2.34	1.08
1:I:348:LYS:O	1:I:352:ILE:HD13	1.52	1.08
1:K:88:LEU:O	1:K:91:PRO:CD	1.99	1.08
1:K:327:ILE:CD1	1:K:341:TRP:CZ3	2.34	1.08
1:K:357:LEU:CD1	1:K:430:LYS:CE	2.31	1.08
1:M:369:PHE:CZ	1:M:410:LEU:CG	2.28	1.08
1:M:410:LEU:CA	1:M:426:TYR:HE1	1.64	1.08
1:O:348:LYS:O	1:O:352:ILE:HD13	1.52	1.08
1:Q:192:VAL:CG2	1:Q:221:ILE:HD13	1.79	1.08
1:S:138:LEU:HD23	1:S:170:VAL:HG11	1.21	1.08
1:S:207:TRP:HE1	1:S:227:GLU:HG2	0.92	1.08
1:U:35:MET:HE2	1:U:39:ILE:HD13	1.24	1.08
1:U:193:LEU:HD12	1:U:217:ILE:HG13	1.29	1.08
1:Y:410:LEU:CB	1:Y:423:PRO:CG	1.76	1.08
1:c:369:PHE:CZ	1:c:410:LEU:CG	2.28	1.08
1:c:405:LEU:HD12	1:c:411:VAL:HG21	1.09	1.08
1:e:357:LEU:HD13	1:e:366:ARG:HD2	1.14	1.08
1:e:357:LEU:CD1	1:e:430:LYS:CE	2.31	1.08
1:A:348:LYS:O	1:A:352:ILE:HD13	1.52	1.08
1:C:24:VAL:HG22	1:C:58:THR:HG21	1.12	1.08
1:G:207:TRP:HE1	1:G:227:GLU:HG2	0.92	1.08
1:I:102:MET:HE3	1:I:172:CYS:SG	1.92	1.08
1:K:241:LEU:HD11	1:K:263:LEU:HD23	1.31	1.08
1:K:357:LEU:HD13	1:K:366:ARG:HD2	1.14	1.08
1:M:138:LEU:CD2	1:M:170:VAL:CG1	2.28	1.08
1:M:287:HIS:ND1	1:M:288:HIS:CD2	2.20	1.08

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:405:LEU:HD12	1:M:411:VAL:HG21	1.09	1.08
1:O:24:VAL:HG22	1:O:58:THR:HG21	1.12	1.08
1:S:287:HIS:ND1	1:S:288:HIS:CD2	2.20	1.08
1:U:360:LEU:HG	1:U:365:TYR:HB3	1.14	1.08
1:U:365:TYR:CD1	1:U:405:LEU:CD2	2.35	1.08
1:W:24:VAL:HG22	1:W:58:THR:HG21	1.12	1.08
1:W:369:PHE:HZ	1:W:410:LEU:HG	1.00	1.08
1:W:422:ILE:HB	1:W:427:LEU:HD12	1.29	1.08
1:a:102:MET:HE3	1:a:172:CYS:SG	1.92	1.08
1:a:410:LEU:CA	1:a:426:TYR:HE1	1.65	1.08
1:c:138:LEU:CD2	1:c:170:VAL:CG1	2.28	1.08
1:c:195:MET:CE	1:c:198:LYS:HE2	1.83	1.08
1:c:287:HIS:ND1	1:c:288:HIS:CD2	2.20	1.08
1:c:371:ARG:CB	1:c:389:ILE:CD1	2.17	1.08
1:e:39:ILE:C	1:e:40:LEU:HD23	1.75	1.08
1:e:327:ILE:CD1	1:e:341:TRP:CZ3	2.34	1.08
1:e:422:ILE:HB	1:e:427:LEU:HD12	1.29	1.08
1:A:87:PHE:CE2	2:B:83:GLY:HA2	1.82	1.08
1:A:102:MET:HE3	1:A:172:CYS:SG	1.92	1.08
1:C:295:ASP:O	1:C:298:LYS:HG2	1.53	1.08
1:E:138:LEU:CD2	1:E:170:VAL:CG1	2.28	1.08
1:E:153:LEU:HD21	1:E:267:ARG:HH11	1.16	1.08
1:G:287:HIS:ND1	1:G:288:HIS:CD2	2.20	1.08
1:G:365:TYR:CD1	1:G:405:LEU:CD2	2.34	1.08
1:I:410:LEU:HD12	1:I:411:VAL:H	1.18	1.08
1:K:39:ILE:C	1:K:40:LEU:HD23	1.75	1.08
1:K:410:LEU:HD12	1:K:411:VAL:H	1.18	1.08
1:M:87:PHE:CE2	2:N:83:GLY:HA2	1.82	1.08
1:M:195:MET:CE	1:M:198:LYS:HE2	1.83	1.08
1:O:102:MET:HE3	1:O:172:CYS:SG	1.92	1.08
1:O:195:MET:CE	1:O:198:LYS:HE2	1.83	1.08
1:Q:348:LYS:O	1:Q:352:ILE:HD13	1.52	1.08
1:Q:405:LEU:HD12	1:Q:411:VAL:HG21	1.09	1.08
1:S:88:LEU:O	1:S:91:PRO:CD	1.99	1.08
1:S:365:TYR:CD1	1:S:405:LEU:CD2	2.34	1.08
1:U:153:LEU:HD21	1:U:267:ARG:HH11	1.16	1.08
1:W:192:VAL:CG2	1:W:221:ILE:HD13	1.79	1.08
1:a:24:VAL:HG22	1:a:58:THR:HG21	1.12	1.08
1:c:87:PHE:CE2	2:d:83:GLY:HA2	1.82	1.08
1:A:410:LEU:HD12	1:A:411:VAL:H	1.18	1.08
1:C:192:VAL:CG2	1:C:221:ILE:HD13	1.79	1.08

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:365:TYR:CD1	1:C:405:LEU:CD2	2.34	1.08
1:C:369:PHE:HZ	1:C:410:LEU:HG	1.00	1.08
1:C:382:PRO:HB3	1:C:463:LEU:HD22	1.32	1.08
1:E:186:CYS:O	1:E:191:THR:HG21	1.53	1.08
1:E:360:LEU:HG	1:E:365:TYR:HB3	1.14	1.08
1:G:19:PHE:CE2	1:G:92:ILE:CG1	2.37	1.08
1:G:88:LEU:O	1:G:91:PRO:CD	1.99	1.08
1:I:39:ILE:HG12	1:I:40:LEU:CD2	1.82	1.08
1:I:192:VAL:HG21	1:I:221:ILE:CD1	1.76	1.08
1:K:87:PHE:CD2	2:L:83:GLY:CA	2.37	1.08
1:M:371:ARG:CB	1:M:389:ILE:CD1	2.17	1.08
1:M:424:SER:HA	1:M:427:LEU:HB3	1.19	1.08
2:N:62:MET:HE2	2:N:62:MET:HA	1.19	1.08
1:Q:193:LEU:HD12	1:Q:217:ILE:HG13	1.29	1.08
1:S:19:PHE:CE2	1:S:92:ILE:CG1	2.37	1.08
1:U:138:LEU:CD2	1:U:170:VAL:CG1	2.28	1.08
1:U:186:CYS:O	1:U:191:THR:HG21	1.53	1.08
1:W:295:ASP:O	1:W:298:LYS:HG2	1.53	1.08
1:W:365:TYR:CD1	1:W:405:LEU:CD2	2.34	1.08
1:W:382:PRO:HB3	1:W:463:LEU:HD22	1.32	1.08
1:Y:193:LEU:HD12	1:Y:217:ILE:HG13	1.29	1.08
1:Y:348:LYS:O	1:Y:352:ILE:HD13	1.52	1.08
1:Y:405:LEU:HD12	1:Y:411:VAL:HG21	1.09	1.08
1:a:138:LEU:CD2	1:a:170:VAL:CG1	2.28	1.08
1:a:195:MET:CE	1:a:198:LYS:HE2	1.83	1.08
1:e:87:PHE:CD2	2:f:83:GLY:CA	2.37	1.08
1:A:39:ILE:HG12	1:A:40:LEU:CD2	1.82	1.08
1:A:192:VAL:HG21	1:A:221:ILE:CD1	1.76	1.08
1:C:153:LEU:HD21	1:C:267:ARG:HH11	1.16	1.08
1:E:19:PHE:CE2	1:E:92:ILE:CG1	2.37	1.08
1:G:24:VAL:HG22	1:G:58:THR:HG21	1.12	1.08
1:G:138:LEU:HD23	1:G:170:VAL:HG11	1.21	1.08
1:G:192:VAL:CG2	1:G:221:ILE:HD13	1.79	1.08
1:G:353:ILE:HG22	1:G:426:TYR:HB3	1.14	1.08
1:I:195:MET:CE	1:I:198:LYS:HE2	1.83	1.08
1:K:87:PHE:CE2	2:L:83:GLY:HA2	1.82	1.08
1:K:207:TRP:HE1	1:K:227:GLU:HG2	0.92	1.08
1:K:369:PHE:CZ	1:K:410:LEU:CG	2.28	1.08
1:O:138:LEU:CD2	1:O:170:VAL:CG1	2.28	1.08
1:O:357:LEU:CD1	1:O:430:LYS:CE	2.31	1.08
1:Q:19:PHE:CE2	1:Q:92:ILE:CG1	2.37	1.08

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Q:102:MET:HE3	1:Q:172:CYS:SG	1.92	1.08
1:Q:207:TRP:HE1	1:Q:227:GLU:HG2	0.92	1.08
1:Q:357:LEU:HD11	1:Q:430:LYS:HE3	1.27	1.08
1:S:24:VAL:HG22	1:S:58:THR:HG21	1.12	1.08
1:S:353:ILE:HG22	1:S:426:TYR:HB3	1.14	1.08
1:U:19:PHE:CE2	1:U:92:ILE:CG1	2.37	1.08
1:W:102:MET:HE3	1:W:172:CYS:SG	1.92	1.08
1:W:153:LEU:HD21	1:W:267:ARG:HH11	1.16	1.08
1:a:357:LEU:CD1	1:a:430:LYS:CE	2.31	1.08
1:a:357:LEU:HD13	1:a:366:ARG:HD2	1.14	1.08
2:d:62:MET:HE2	2:d:62:MET:HA	1.19	1.08
1:e:207:TRP:HE1	1:e:227:GLU:HG2	0.92	1.08
1:e:241:LEU:HD11	1:e:263:LEU:HD23	1.31	1.08
1:e:410:LEU:HD12	1:e:411:VAL:H	1.18	1.08
1:A:195:MET:CE	1:A:198:LYS:HE2	1.83	1.07
1:A:357:LEU:CD1	1:A:430:LYS:CE	2.31	1.07
1:C:102:MET:HE3	1:C:172:CYS:SG	1.92	1.07
1:G:247:VAL:O	1:G:266:THR:HG23	1.53	1.07
1:G:357:LEU:CD1	1:G:430:LYS:CE	2.31	1.07
1:G:422:ILE:HB	1:G:427:LEU:HD12	1.29	1.07
1:I:86:LYS:HE2	1:I:89:MET:HE3	1.34	1.07
1:I:133:LYS:HB3	1:I:283:ILE:HD11	1.12	1.07
1:I:357:LEU:CD1	1:I:430:LYS:CE	2.31	1.07
1:K:186:CYS:O	1:K:191:THR:HG21	1.53	1.07
1:K:195:MET:CE	1:K:198:LYS:HE2	1.83	1.07
1:M:410:LEU:HD12	1:M:411:VAL:H	1.18	1.07
1:O:19:PHE:CE2	1:O:92:ILE:CG1	2.37	1.07
1:S:87:PHE:CD2	2:T:83:GLY:CA	2.37	1.07
1:S:192:VAL:CG2	1:S:221:ILE:HD13	1.79	1.07
1:S:247:VAL:O	1:S:266:THR:HG23	1.53	1.07
1:S:348:LYS:O	1:S:352:ILE:HD13	1.52	1.07
1:S:369:PHE:HZ	1:S:410:LEU:HG	1.00	1.07
1:W:138:LEU:HD23	1:W:170:VAL:HG11	1.21	1.07
1:Y:19:PHE:CE2	1:Y:92:ILE:CG1	2.37	1.07
1:Y:102:MET:HE3	1:Y:172:CYS:SG	1.92	1.07
1:Y:207:TRP:HE1	1:Y:227:GLU:HG2	0.92	1.07
1:Y:357:LEU:HD11	1:Y:430:LYS:HE3	1.27	1.07
1:a:192:VAL:CG2	1:a:221:ILE:HD13	1.79	1.07
1:c:193:LEU:HD12	1:c:217:ILE:HG13	1.29	1.07
1:e:87:PHE:CE2	2:f:83:GLY:HA2	1.82	1.07
1:e:186:CYS:O	1:e:191:THR:HG21	1.53	1.07

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:e:195:MET:CE	1:e:198:LYS:HE2	1.83	1.07
1:A:133:LYS:HB3	1:A:283:ILE:HD11	1.12	1.07
1:A:353:ILE:HG22	1:A:426:TYR:HB3	1.14	1.07
1:A:369:PHE:CZ	1:A:410:LEU:CG	2.28	1.07
1:A:410:LEU:CB	1:A:423:PRO:CG	1.76	1.07
1:C:19:PHE:CE2	1:C:92:ILE:CG1	2.37	1.07
1:E:369:PHE:CZ	1:E:410:LEU:CG	2.28	1.07
1:G:87:PHE:CD2	2:H:83:GLY:CA	2.37	1.07
1:I:357:LEU:HD13	1:I:366:ARG:HD2	1.14	1.07
1:I:369:PHE:CZ	1:I:410:LEU:CG	2.28	1.07
1:I:410:LEU:CB	1:I:423:PRO:CG	1.76	1.07
1:M:348:LYS:O	1:M:352:ILE:HD13	1.52	1.07
1:O:192:VAL:CG2	1:O:221:ILE:HD13	1.79	1.07
1:O:357:LEU:HD13	1:O:366:ARG:HD2	1.14	1.07
1:S:357:LEU:CD1	1:S:430:LYS:CE	2.31	1.07
1:U:133:LYS:HB3	1:U:283:ILE:HD11	1.12	1.07
1:W:19:PHE:CE2	1:W:92:ILE:CG1	2.37	1.07
1:a:19:PHE:CE2	1:a:92:ILE:CG1	2.37	1.07
1:a:295:ASP:O	1:a:298:LYS:HG2	1.53	1.07
1:c:424:SER:HA	1:c:427:LEU:HB3	1.19	1.07
1:e:86:LYS:HE2	1:e:89:MET:HE3	1.34	1.07
1:e:369:PHE:CZ	1:e:410:LEU:CG	2.28	1.07
1:A:86:LYS:HE2	1:A:89:MET:HE3	1.34	1.07
1:C:138:LEU:HD23	1:C:170:VAL:HG11	1.21	1.07
1:E:24:VAL:HG22	1:E:58:THR:HG21	1.12	1.07
1:E:133:LYS:HB3	1:E:283:ILE:HD11	1.12	1.07
1:E:195:MET:CE	1:E:198:LYS:HE2	1.83	1.07
1:G:348:LYS:O	1:G:352:ILE:HD13	1.52	1.07
1:I:353:ILE:HG22	1:I:426:TYR:HB3	1.14	1.07
1:K:382:PRO:HB3	1:K:463:LEU:HD22	1.32	1.07
1:O:295:ASP:O	1:O:298:LYS:HG2	1.53	1.07
1:U:195:MET:CE	1:U:198:LYS:HE2	1.83	1.07
1:W:207:TRP:HE1	1:W:227:GLU:HG2	0.92	1.07
1:c:153:LEU:HD21	1:c:267:ARG:HH11	1.16	1.07
1:c:410:LEU:HD12	1:c:411:VAL:H	1.18	1.07
1:e:382:PRO:HB3	1:e:463:LEU:HD22	1.32	1.07
1:A:357:LEU:HD13	1:A:366:ARG:HD2	1.14	1.07
2:B:62:MET:HE2	2:B:62:MET:HA	1.19	1.07
1:C:247:VAL:O	1:C:266:THR:HG23	1.53	1.07
1:C:357:LEU:HD13	1:C:366:ARG:HD2	1.14	1.07
1:E:243:VAL:HG12	1:E:263:LEU:CG	1.85	1.07

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:86:LYS:HE2	1:K:89:MET:HE3	1.34	1.07
1:M:193:LEU:HD12	1:M:217:ILE:HG13	1.29	1.07
1:M:247:VAL:O	1:M:266:THR:HG23	1.53	1.07
1:M:369:PHE:HZ	1:M:410:LEU:HG	1.00	1.07
1:S:422:ILE:HB	1:S:427:LEU:HD12	1.29	1.07
1:U:24:VAL:HG22	1:U:58:THR:HG21	1.12	1.07
1:U:369:PHE:CZ	1:U:410:LEU:CG	2.28	1.07
1:c:247:VAL:O	1:c:266:THR:HG23	1.53	1.07
1:c:369:PHE:HZ	1:c:410:LEU:HG	1.00	1.07
1:A:243:VAL:HG12	1:A:263:LEU:CG	1.85	1.07
1:A:410:LEU:CB	1:A:423:PRO:CD	2.22	1.07
1:C:207:TRP:HE1	1:C:227:GLU:HG2	0.92	1.07
1:E:102:MET:HE3	1:E:172:CYS:SG	1.92	1.07
1:E:207:TRP:HE1	1:E:227:GLU:HG2	0.92	1.07
1:G:357:LEU:HD13	1:G:366:ARG:HD2	1.14	1.07
1:G:369:PHE:HZ	1:G:410:LEU:HG	1.00	1.07
1:G:410:LEU:HD12	1:G:411:VAL:H	1.18	1.07
1:I:129:GLN:HB3	1:I:130:PRO:HD3	1.37	1.07
1:I:243:VAL:HG12	1:I:263:LEU:CG	1.85	1.07
2:J:62:MET:HE2	2:J:62:MET:HA	1.19	1.07
1:M:153:LEU:HD21	1:M:267:ARG:HH11	1.16	1.07
1:O:186:CYS:O	1:O:191:THR:HG21	1.53	1.07
1:S:133:LYS:HB3	1:S:283:ILE:HD11	1.12	1.07
1:S:360:LEU:HD12	1:S:405:LEU:HD21	1.08	1.07
1:U:243:VAL:HG12	1:U:263:LEU:CG	1.85	1.07
1:W:241:LEU:HD11	1:W:263:LEU:HD23	1.31	1.07
1:W:247:VAL:O	1:W:266:THR:HG23	1.53	1.07
1:c:348:LYS:O	1:c:352:ILE:HD13	1.52	1.07
1:A:371:ARG:CB	1:A:389:ILE:CD1	2.17	1.06
1:C:241:LEU:HD11	1:C:263:LEU:HD23	1.31	1.06
1:G:133:LYS:HB3	1:G:283:ILE:HD11	1.12	1.06
1:G:153:LEU:HD21	1:G:267:ARG:HH11	1.16	1.06
1:G:195:MET:CE	1:G:198:LYS:HE2	1.83	1.06
1:G:360:LEU:HD12	1:G:405:LEU:HD21	1.08	1.06
1:I:35:MET:HE2	1:I:39:ILE:HD13	1.24	1.06
1:M:19:PHE:CE2	1:M:92:ILE:CG1	2.37	1.06
1:M:357:LEU:HD13	1:M:366:ARG:HD2	1.14	1.06
1:O:15:ILE:HD13	1:O:95:GLU:HB3	1.38	1.06
1:O:243:VAL:HG12	1:O:263:LEU:CG	1.85	1.06
1:O:357:LEU:HD13	1:O:366:ARG:NE	1.70	1.06
1:O:410:LEU:HD12	1:O:411:VAL:H	1.18	1.06

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Q:86:LYS:HE2	1:Q:89:MET:HE3	1.34	1.06
1:Q:295:ASP:O	1:Q:298:LYS:HG2	1.53	1.06
1:S:153:LEU:HD21	1:S:267:ARG:HH11	1.16	1.06
1:S:410:LEU:HD12	1:S:411:VAL:H	1.18	1.06
1:Y:24:VAL:HG22	1:Y:58:THR:HG21	1.12	1.06
1:Y:86:LYS:HE2	1:Y:89:MET:HE3	1.34	1.06
1:a:186:CYS:O	1:a:191:THR:HG21	1.53	1.06
1:a:243:VAL:HG12	1:a:263:LEU:CG	1.85	1.06
1:a:357:LEU:HD13	1:a:366:ARG:NE	1.70	1.06
1:A:35:MET:HE2	1:A:39:ILE:HD13	1.24	1.06
1:A:129:GLN:HB3	1:A:130:PRO:HD3	1.37	1.06
1:C:15:ILE:HD13	1:C:95:GLU:HB3	1.38	1.06
1:C:186:CYS:O	1:C:191:THR:HG21	1.53	1.06
1:E:241:LEU:HD11	1:E:263:LEU:HD23	1.31	1.06
1:G:87:PHE:HE2	2:H:83:GLY:CA	1.61	1.06
1:G:129:GLN:HB3	1:G:130:PRO:HD3	1.37	1.06
1:K:129:GLN:HB3	1:K:130:PRO:HD3	1.37	1.06
1:K:243:VAL:HG12	1:K:263:LEU:CG	1.85	1.06
1:M:357:LEU:HD13	1:M:366:ARG:NE	1.70	1.06
1:M:377:PRO:O	1:M:427:LEU:HD21	1.56	1.06
1:Q:24:VAL:HG22	1:Q:58:THR:HG21	1.12	1.06
1:S:195:MET:CE	1:S:198:LYS:HE2	1.83	1.06
1:S:357:LEU:HD13	1:S:366:ARG:HD2	1.14	1.06
1:U:207:TRP:HE1	1:U:227:GLU:HG2	0.92	1.06
1:U:241:LEU:HD11	1:U:263:LEU:HD23	1.31	1.06
1:U:247:VAL:O	1:U:266:THR:HG23	1.53	1.06
1:W:15:ILE:HD13	1:W:95:GLU:HB3	1.38	1.06
1:W:243:VAL:HG12	1:W:263:LEU:CG	1.85	1.06
1:W:357:LEU:HD13	1:W:366:ARG:HD2	1.14	1.06
1:Y:295:ASP:O	1:Y:298:LYS:HG2	1.53	1.06
1:a:15:ILE:HD13	1:a:95:GLU:HB3	1.38	1.06
1:a:207:TRP:HE1	1:a:227:GLU:HG2	0.92	1.06
1:c:19:PHE:CE2	1:c:92:ILE:CG1	2.37	1.06
1:c:357:LEU:HD13	1:c:366:ARG:NE	1.70	1.06
1:e:243:VAL:HG12	1:e:263:LEU:CG	1.85	1.06
1:C:243:VAL:HG12	1:C:263:LEU:CG	1.85	1.06
1:E:247:VAL:O	1:E:266:THR:HG23	1.53	1.06
1:I:371:ARG:CB	1:I:389:ILE:CD1	2.17	1.06
1:I:410:LEU:CB	1:I:423:PRO:CD	2.22	1.06
1:M:186:CYS:O	1:M:191:THR:HG21	1.53	1.06
1:M:357:LEU:HD12	1:M:430:LYS:HZ1	0.91	1.06

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:O:86:LYS:HE2	1:O:89:MET:HE3	1.34	1.06
1:O:207:TRP:HE1	1:O:227:GLU:HG2	0.92	1.06
1:Q:357:LEU:CD1	1:Q:430:LYS:CE	2.31	1.06
1:S:138:LEU:CD2	1:S:170:VAL:CG1	2.28	1.06
1:U:192:VAL:CG2	1:U:221:ILE:HD13	1.79	1.06
1:U:357:LEU:HD11	1:U:430:LYS:HE3	1.27	1.06
1:W:186:CYS:O	1:W:191:THR:HG21	1.53	1.06
1:Y:247:VAL:O	1:Y:266:THR:HG23	1.53	1.06
1:a:86:LYS:HE2	1:a:89:MET:HE3	1.34	1.06
1:a:410:LEU:HD12	1:a:411:VAL:H	1.18	1.06
1:c:186:CYS:O	1:c:191:THR:HG21	1.53	1.06
1:c:300:LEU:HD11	1:c:304:TYR:OH	1.56	1.06
1:c:357:LEU:HD13	1:c:366:ARG:HD2	1.14	1.06
1:c:377:PRO:O	1:c:427:LEU:HD21	1.56	1.06
1:e:129:GLN:HB3	1:e:130:PRO:HD3	1.37	1.06
1:e:247:VAL:O	1:e:266:THR:HG23	1.53	1.06
1:A:192:VAL:CG2	1:A:221:ILE:HD13	1.79	1.06
1:E:300:LEU:HD11	1:E:304:TYR:OH	1.56	1.06
1:G:138:LEU:CD2	1:G:170:VAL:CG1	2.28	1.06
1:G:193:LEU:HD12	1:G:217:ILE:HG13	1.29	1.06
1:G:382:PRO:HB3	1:G:463:LEU:HD22	1.32	1.06
1:I:192:VAL:CG2	1:I:221:ILE:HD13	1.79	1.06
1:I:382:PRO:HB3	1:I:463:LEU:HD22	1.32	1.06
1:K:247:VAL:O	1:K:266:THR:HG23	1.53	1.06
1:M:300:LEU:HD11	1:M:304:TYR:OH	1.56	1.06
1:O:39:ILE:HG12	1:O:40:LEU:HD23	1.26	1.06
1:O:153:LEU:HD21	1:O:267:ARG:HH11	1.16	1.06
1:Q:192:VAL:HG21	1:Q:221:ILE:HD13	1.07	1.06
1:Q:243:VAL:HG12	1:Q:263:LEU:CG	1.85	1.06
1:Q:247:VAL:O	1:Q:266:THR:HG23	1.53	1.06
1:S:129:GLN:HB3	1:S:130:PRO:HD3	1.37	1.06
1:U:129:GLN:HB3	1:U:130:PRO:HD3	1.37	1.06
1:U:300:LEU:HD11	1:U:304:TYR:OH	1.56	1.06
1:W:87:PHE:CD2	2:X:83:GLY:CA	2.37	1.06
1:W:129:GLN:HB3	1:W:130:PRO:HD3	1.37	1.06
1:W:348:LYS:O	1:W:352:ILE:HD13	1.52	1.06
1:Y:357:LEU:CD1	1:Y:430:LYS:CE	2.31	1.06
1:A:382:PRO:HB3	1:A:463:LEU:HD22	1.32	1.06
1:C:41:SER:HB2	1:C:44:GLU:CB	1.86	1.06
1:C:129:GLN:HB3	1:C:130:PRO:HD3	1.37	1.06
1:C:192:VAL:HG21	1:C:221:ILE:HD13	1.07	1.06

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:300:LEU:HD11	1:C:304:TYR:OH	1.56	1.06
1:C:348:LYS:O	1:C:352:ILE:HD13	1.52	1.06
1:C:369:PHE:CZ	1:C:410:LEU:CG	2.28	1.06
1:E:129:GLN:HB3	1:E:130:PRO:HD3	1.37	1.06
1:E:192:VAL:CG2	1:E:221:ILE:HD13	1.79	1.06
1:K:300:LEU:HD11	1:K:304:TYR:OH	1.56	1.06
1:M:86:LYS:HE2	1:M:89:MET:HE3	1.34	1.06
1:M:192:VAL:CG2	1:M:221:ILE:HD13	1.79	1.06
1:S:87:PHE:HE2	2:T:83:GLY:CA	1.61	1.06
1:S:360:LEU:HG	1:S:365:TYR:HB3	1.14	1.06
1:W:41:SER:HB2	1:W:44:GLU:CB	1.86	1.06
1:W:300:LEU:HD11	1:W:304:TYR:OH	1.56	1.06
1:W:360:LEU:HD12	1:W:405:LEU:HD21	1.08	1.06
1:Y:153:LEU:HD21	1:Y:267:ARG:HH11	1.16	1.06
1:Y:192:VAL:HG21	1:Y:221:ILE:HD13	1.07	1.06
1:Y:243:VAL:HG12	1:Y:263:LEU:CG	1.85	1.06
1:a:153:LEU:HD21	1:a:267:ARG:HH11	1.16	1.06
1:c:86:LYS:HE2	1:c:89:MET:HE3	1.34	1.06
1:c:192:VAL:CG2	1:c:221:ILE:HD13	1.79	1.06
1:c:243:VAL:HG12	1:c:263:LEU:CG	1.85	1.06
1:e:300:LEU:HD11	1:e:304:TYR:OH	1.56	1.06
1:e:405:LEU:HD12	1:e:411:VAL:HG21	1.09	1.06
1:A:377:PRO:O	1:A:427:LEU:HD21	1.56	1.05
1:C:87:PHE:CD2	2:D:83:GLY:CA	2.37	1.05
1:C:360:LEU:HD12	1:C:405:LEU:HD21	1.08	1.05
1:E:357:LEU:HD11	1:E:430:LYS:HE3	1.27	1.05
1:G:360:LEU:HG	1:G:365:TYR:HB3	1.14	1.05
1:I:377:PRO:O	1:I:427:LEU:HD21	1.56	1.05
1:M:243:VAL:HG12	1:M:263:LEU:CG	1.85	1.05
1:Q:153:LEU:HD21	1:Q:267:ARG:HH11	1.16	1.05
1:S:193:LEU:HD12	1:S:217:ILE:HG13	1.29	1.05
1:S:382:PRO:HB3	1:S:463:LEU:HD22	1.32	1.05
1:W:133:LYS:HB3	1:W:283:ILE:HD11	1.12	1.05
1:W:192:VAL:HG21	1:W:221:ILE:HD13	1.07	1.05
1:Y:357:LEU:HD13	1:Y:366:ARG:NE	1.70	1.05
1:C:133:LYS:HB3	1:C:283:ILE:HD11	1.12	1.05
1:E:518:LEU:CD1	1:E:646:UNK:O	2.04	1.05
1:G:241:LEU:HD11	1:G:263:LEU:HD23	1.31	1.05
1:G:300:LEU:HD11	1:G:304:TYR:OH	1.56	1.05
1:I:360:LEU:HD12	1:I:405:LEU:HD21	1.08	1.05
1:K:138:LEU:CD2	1:K:170:VAL:CG1	2.28	1.05

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:405:LEU:HD12	1:K:411:VAL:HG21	1.09	1.05
1:K:410:LEU:CB	1:K:423:PRO:CG	1.76	1.05
1:K:518:LEU:CD1	1:K:646:UNK:O	2.04	1.05
1:O:41:SER:HB2	1:O:44:GLU:CB	1.86	1.05
1:Q:357:LEU:HD13	1:Q:366:ARG:NE	1.70	1.05
1:Q:410:LEU:HD12	1:Q:411:VAL:H	1.18	1.05
1:S:300:LEU:HD11	1:S:304:TYR:OH	1.56	1.05
1:U:87:PHE:CD2	2:V:83:GLY:CA	2.37	1.05
1:U:518:LEU:CD1	1:U:646:UNK:O	2.04	1.05
1:a:39:ILE:HG12	1:a:40:LEU:HD23	1.26	1.05
1:c:371:ARG:CG	1:c:389:ILE:CD1	2.13	1.05
1:e:138:LEU:CD2	1:e:170:VAL:CG1	2.28	1.05
1:e:518:LEU:CD1	1:e:646:UNK:O	2.04	1.05
1:A:138:LEU:CD2	1:A:170:VAL:CG1	2.28	1.05
1:A:300:LEU:HD11	1:A:304:TYR:OH	1.56	1.05
1:E:360:LEU:HD12	1:E:405:LEU:HD21	1.08	1.05
1:E:410:LEU:CB	1:E:423:PRO:CG	1.76	1.05
1:E:410:LEU:HD12	1:E:411:VAL:H	1.18	1.05
1:I:138:LEU:CD2	1:I:170:VAL:CG1	2.28	1.05
1:I:300:LEU:HD11	1:I:304:TYR:OH	1.56	1.05
1:K:192:VAL:CG2	1:K:221:ILE:HD13	1.79	1.05
1:K:357:LEU:HD13	1:K:366:ARG:NE	1.70	1.05
1:M:41:SER:HB2	1:M:44:GLU:CB	1.86	1.05
1:O:369:PHE:CZ	1:O:410:LEU:CG	2.28	1.05
1:Q:138:LEU:HD23	1:Q:170:VAL:HG11	1.21	1.05
1:Q:186:CYS:O	1:Q:191:THR:HG21	1.53	1.05
1:U:15:ILE:HD13	1:U:95:GLU:C	1.82	1.05
1:W:369:PHE:CZ	1:W:410:LEU:CG	2.28	1.05
1:a:41:SER:HB2	1:a:44:GLU:CB	1.86	1.05
1:a:369:PHE:CZ	1:a:410:LEU:CG	2.28	1.05
1:c:41:SER:HB2	1:c:44:GLU:CB	1.86	1.05
1:c:234:SER:HB3	1:c:236:PRO:HD2	1.39	1.05
1:c:410:LEU:CB	1:c:423:PRO:CD	2.22	1.05
1:e:192:VAL:CG2	1:e:221:ILE:HD13	1.79	1.05
1:A:87:PHE:CD2	2:B:83:GLY:CA	2.37	1.05
1:A:234:SER:HB3	1:A:236:PRO:HD2	1.39	1.05
1:A:360:LEU:HD12	1:A:405:LEU:HD21	1.08	1.05
1:E:15:ILE:HD13	1:E:95:GLU:C	1.82	1.05
1:E:87:PHE:CD2	2:F:83:GLY:CA	2.37	1.05
1:G:234:SER:HB3	1:G:236:PRO:HD2	1.39	1.05
1:G:405:LEU:HD12	1:G:411:VAL:HG21	1.09	1.05

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:153:LEU:HD21	1:I:267:ARG:HH11	1.16	1.05
1:K:15:ILE:HD13	1:K:95:GLU:HB3	1.38	1.05
1:K:15:ILE:HD13	1:K:95:GLU:C	1.82	1.05
1:K:19:PHE:CE2	1:K:92:ILE:CG1	2.37	1.05
1:M:15:ILE:HD13	1:M:95:GLU:C	1.82	1.05
1:M:207:TRP:HE1	1:M:227:GLU:HG2	0.92	1.05
1:M:234:SER:HB3	1:M:236:PRO:HD2	1.39	1.05
1:O:410:LEU:CB	1:O:423:PRO:CG	1.76	1.05
1:Q:369:PHE:CZ	1:Q:410:LEU:CG	2.28	1.05
1:S:241:LEU:HD11	1:S:263:LEU:HD23	1.31	1.05
1:S:405:LEU:HD12	1:S:411:VAL:HG21	1.09	1.05
1:U:357:LEU:HG	1:U:430:LYS:HE2	1.38	1.05
1:U:360:LEU:HD12	1:U:405:LEU:HD21	1.08	1.05
1:U:382:PRO:HB3	1:U:463:LEU:HD22	1.32	1.05
1:U:410:LEU:HD12	1:U:411:VAL:H	1.18	1.05
1:Y:410:LEU:HD12	1:Y:411:VAL:H	1.18	1.05
1:c:15:ILE:HD13	1:c:95:GLU:C	1.82	1.05
1:c:87:PHE:CD2	2:d:83:GLY:CA	2.37	1.05
1:c:518:LEU:CD1	1:c:646:UNK:O	2.04	1.05
1:e:15:ILE:HD13	1:e:95:GLU:C	1.82	1.05
1:e:15:ILE:HD13	1:e:95:GLU:HB3	1.38	1.05
1:e:357:LEU:HD13	1:e:366:ARG:NE	1.70	1.05
1:A:41:SER:HB2	1:A:44:GLU:CB	1.86	1.05
1:A:49:ILE:O	1:A:51:SER:HB3	1.57	1.05
1:A:153:LEU:HD21	1:A:267:ARG:HH11	1.16	1.05
1:A:247:VAL:O	1:A:266:THR:HG23	1.53	1.05
1:A:518:LEU:CD1	1:A:646:UNK:O	2.04	1.05
1:C:518:LEU:CD1	1:C:646:UNK:O	2.04	1.05
1:E:41:SER:HB2	1:E:44:GLU:CB	1.86	1.05
1:E:86:LYS:HE2	1:E:89:MET:HE3	1.34	1.05
1:E:357:LEU:HG	1:E:430:LYS:HE2	1.38	1.05
1:E:382:PRO:HB3	1:E:463:LEU:HD22	1.32	1.05
1:G:243:VAL:HG12	1:G:263:LEU:CG	1.85	1.05
1:I:41:SER:HB2	1:I:44:GLU:CB	1.86	1.05
1:I:49:ILE:O	1:I:51:SER:HB3	1.57	1.05
1:I:87:PHE:CD2	2:J:83:GLY:CA	2.37	1.05
1:I:234:SER:HB3	1:I:236:PRO:HD2	1.39	1.05
1:I:247:VAL:O	1:I:266:THR:HG23	1.53	1.05
1:I:518:LEU:CD1	1:I:646:UNK:O	2.04	1.05
1:M:87:PHE:CD2	2:N:83:GLY:CA	2.37	1.05
1:M:371:ARG:CG	1:M:389:ILE:CD1	2.13	1.05

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:518:LEU:CD1	1:M:646:UNK:O	2.04	1.05
1:O:146:ASN:O	1:O:280:THR:HB	1.57	1.05
1:S:15:ILE:HD13	1:S:95:GLU:C	1.82	1.05
1:S:41:SER:HB2	1:S:44:GLU:CB	1.86	1.05
1:S:234:SER:HB3	1:S:236:PRO:HD2	1.39	1.05
1:U:41:SER:HB2	1:U:44:GLU:CB	1.86	1.05
1:U:410:LEU:CB	1:U:423:PRO:CG	1.76	1.05
1:W:365:TYR:CD1	1:W:405:LEU:HD23	1.92	1.05
1:W:518:LEU:CD1	1:W:646:UNK:O	2.04	1.05
1:Y:129:GLN:HB3	1:Y:130:PRO:HD3	1.37	1.05
1:Y:186:CYS:O	1:Y:191:THR:HG21	1.53	1.05
1:a:146:ASN:O	1:a:280:THR:HB	1.57	1.05
1:a:300:LEU:HD11	1:a:304:TYR:OH	1.56	1.05
1:c:207:TRP:HE1	1:c:227:GLU:HG2	0.92	1.05
1:e:19:PHE:CE2	1:e:92:ILE:CG1	2.37	1.05
1:e:410:LEU:CB	1:e:423:PRO:CG	1.76	1.05
1:A:207:TRP:HE1	1:A:227:GLU:HG2	0.92	1.04
1:A:463:LEU:HB2	1:A:467:PHE:CE1	1.92	1.04
1:C:15:ILE:HD13	1:C:95:GLU:C	1.82	1.04
1:C:86:LYS:HE2	1:C:89:MET:HE3	1.34	1.04
1:C:87:PHE:HE2	2:D:83:GLY:CA	1.61	1.04
1:C:357:LEU:HG	1:C:430:LYS:HE2	1.38	1.04
1:C:405:LEU:HD12	1:C:411:VAL:HG21	1.09	1.04
1:C:410:LEU:HD12	1:C:411:VAL:H	1.18	1.04
1:G:15:ILE:HD13	1:G:95:GLU:C	1.82	1.04
1:G:41:SER:HB2	1:G:44:GLU:CB	1.86	1.04
1:G:463:LEU:HB2	1:G:467:PHE:CE1	1.92	1.04
1:I:463:LEU:HB2	1:I:467:PHE:CE1	1.92	1.04
1:K:234:SER:HB3	1:K:236:PRO:HD2	1.39	1.04
1:M:129:GLN:HB3	1:M:130:PRO:HD3	1.37	1.04
1:M:410:LEU:CB	1:M:423:PRO:CD	2.22	1.04
1:O:247:VAL:O	1:O:266:THR:HG23	1.53	1.04
1:O:300:LEU:HD11	1:O:304:TYR:OH	1.56	1.04
1:Q:129:GLN:HB3	1:Q:130:PRO:HD3	1.37	1.04
1:Q:146:ASN:O	1:Q:280:THR:HB	1.57	1.04
1:S:243:VAL:HG12	1:S:263:LEU:CG	1.85	1.04
1:S:463:LEU:HB2	1:S:467:PHE:CE1	1.92	1.04
1:S:518:LEU:CD1	1:S:646:UNK:O	2.04	1.04
1:W:15:ILE:HD13	1:W:95:GLU:C	1.82	1.04
1:W:357:LEU:HG	1:W:430:LYS:HE2	1.38	1.04
1:Y:41:SER:HB2	1:Y:44:GLU:CB	1.86	1.04

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Y:138:LEU:HD23	1:Y:170:VAL:HG11	1.21	1.04
1:Y:146:ASN:O	1:Y:280:THR:HB	1.57	1.04
1:Y:369:PHE:CZ	1:Y:410:LEU:CG	2.28	1.04
1:c:129:GLN:HB3	1:c:130:PRO:HD3	1.37	1.04
1:A:192:VAL:HG21	1:A:221:ILE:HD13	1.07	1.04
1:E:192:VAL:HG21	1:E:221:ILE:HD13	1.07	1.04
1:E:365:TYR:CD1	1:E:405:LEU:HD23	1.92	1.04
1:G:357:LEU:HG	1:G:430:LYS:HE2	1.38	1.04
1:G:377:PRO:O	1:G:427:LEU:HD21	1.56	1.04
1:G:410:LEU:CB	1:G:423:PRO:CG	1.76	1.04
1:G:518:LEU:CD1	1:G:646:UNK:O	2.04	1.04
1:I:207:TRP:HE1	1:I:227:GLU:HG2	0.92	1.04
1:K:49:ILE:O	1:K:51:SER:HB3	1.57	1.04
1:K:463:LEU:HB2	1:K:467:PHE:CE1	1.92	1.04
1:M:146:ASN:O	1:M:280:THR:HB	1.57	1.04
1:M:218:LYS:C	1:M:221:ILE:HG22	1.82	1.04
1:O:15:ILE:HD13	1:O:95:GLU:C	1.82	1.04
1:O:518:LEU:CD1	1:O:646:UNK:O	2.04	1.04
1:Q:41:SER:HB2	1:Q:44:GLU:CB	1.86	1.04
1:Q:300:LEU:HD11	1:Q:304:TYR:OH	1.56	1.04
1:Q:518:LEU:CD1	1:Q:646:UNK:O	2.04	1.04
1:S:357:LEU:HG	1:S:430:LYS:HE2	1.38	1.04
1:U:86:LYS:HE2	1:U:89:MET:HE3	1.34	1.04
1:U:410:LEU:HB3	1:U:423:PRO:HG2	1.39	1.04
1:W:86:LYS:HE2	1:W:89:MET:HE3	1.34	1.04
1:W:87:PHE:HE2	2:X:83:GLY:CA	1.61	1.04
1:a:15:ILE:HD13	1:a:95:GLU:C	1.82	1.04
1:a:247:VAL:O	1:a:266:THR:HG23	1.53	1.04
1:a:410:LEU:CB	1:a:423:PRO:CG	1.76	1.04
1:c:146:ASN:O	1:c:280:THR:HB	1.57	1.04
1:c:218:LYS:C	1:c:221:ILE:HG22	1.82	1.04
1:e:49:ILE:O	1:e:51:SER:HB3	1.57	1.04
1:e:234:SER:HB3	1:e:236:PRO:HD2	1.39	1.04
1:e:463:LEU:HB2	1:e:467:PHE:CE1	1.92	1.04
1:A:365:TYR:CD1	1:A:405:LEU:HD23	1.92	1.04
1:E:218:LYS:C	1:E:221:ILE:HG22	1.82	1.04
1:E:410:LEU:HB3	1:E:423:PRO:HG2	1.39	1.04
1:G:357:LEU:HD13	1:G:366:ARG:NE	1.70	1.04
1:I:192:VAL:HG21	1:I:221:ILE:HD13	1.07	1.04
1:I:357:LEU:HG	1:I:430:LYS:HE2	1.38	1.04
1:O:360:LEU:HD12	1:O:405:LEU:HD21	1.08	1.04

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Q:15:ILE:HD13	1:Q:95:GLU:C	1.82	1.04
1:Q:178:ILE:CG2	1:Q:241:LEU:HD22	1.87	1.04
1:S:357:LEU:HD13	1:S:366:ARG:NE	1.70	1.04
1:U:365:TYR:CD1	1:U:405:LEU:HD23	1.92	1.04
1:U:405:LEU:HD12	1:U:411:VAL:HG21	1.09	1.04
1:W:146:ASN:O	1:W:280:THR:HB	1.57	1.04
1:W:405:LEU:HD12	1:W:411:VAL:HG21	1.09	1.04
1:W:410:LEU:HD12	1:W:411:VAL:H	1.18	1.04
1:Y:15:ILE:HD13	1:Y:95:GLU:C	1.82	1.04
1:Y:518:LEU:CD1	1:Y:646:UNK:O	2.04	1.04
1:a:360:LEU:HD12	1:a:405:LEU:HD21	1.08	1.04
1:a:518:LEU:CD1	1:a:646:UNK:O	2.04	1.04
1:e:171:GLN:HE21	1:e:178:ILE:HD11	1.23	1.04
1:A:357:LEU:HG	1:A:430:LYS:HE2	1.38	1.04
1:C:146:ASN:O	1:C:280:THR:HB	1.57	1.04
1:E:405:LEU:HD12	1:E:411:VAL:HG21	1.09	1.04
1:E:463:LEU:HB2	1:E:467:PHE:CE1	1.92	1.04
1:G:15:ILE:HD13	1:G:95:GLU:HB3	1.38	1.04
1:I:146:ASN:O	1:I:280:THR:HB	1.57	1.04
1:I:405:LEU:HD12	1:I:411:VAL:HG21	1.09	1.04
1:K:171:GLN:HE21	1:K:178:ILE:HD11	1.23	1.04
1:S:15:ILE:HD13	1:S:95:GLU:HB3	1.38	1.04
1:S:410:LEU:HB3	1:S:423:PRO:HG2	1.39	1.04
1:U:192:VAL:HG21	1:U:221:ILE:HD13	1.07	1.04
1:U:218:LYS:C	1:U:221:ILE:HG22	1.82	1.04
1:U:463:LEU:HB2	1:U:467:PHE:CE1	1.92	1.04
1:W:218:LYS:C	1:W:221:ILE:HG22	1.82	1.04
1:Y:19:PHE:HE2	1:Y:92:ILE:HG12	1.22	1.04
1:Y:178:ILE:CG2	1:Y:241:LEU:HD22	1.87	1.04
1:Y:300:LEU:HD11	1:Y:304:TYR:OH	1.56	1.04
1:a:377:PRO:O	1:a:427:LEU:HD21	1.56	1.04
1:c:49:ILE:O	1:c:51:SER:HB3	1.57	1.04
1:e:360:LEU:HD12	1:e:405:LEU:HD21	1.08	1.04
1:C:218:LYS:C	1:C:221:ILE:HG22	1.82	1.04
1:E:87:PHE:HE2	2:F:83:GLY:CA	1.61	1.04
1:G:118:GLN:NE2	1:I:279:THR:CG2	2.21	1.04
1:G:410:LEU:HB3	1:G:423:PRO:HG2	1.39	1.04
1:I:15:ILE:HD13	1:I:95:GLU:C	1.82	1.04
1:I:19:PHE:CE2	1:I:92:ILE:CG1	2.37	1.04
1:K:87:PHE:HE2	2:L:83:GLY:CA	1.61	1.04
1:K:218:LYS:C	1:K:221:ILE:HG22	1.82	1.04

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:360:LEU:HD12	1:K:405:LEU:HD21	1.08	1.04
1:M:49:ILE:O	1:M:51:SER:HB3	1.57	1.04
1:M:118:GLN:NE2	1:O:279:THR:CG2	2.21	1.04
1:M:360:LEU:HD12	1:M:405:LEU:HD21	1.08	1.04
1:O:463:LEU:HB2	1:O:467:PHE:CE1	1.92	1.04
1:Q:365:TYR:HD1	1:Q:405:LEU:HD23	1.19	1.04
1:W:357:LEU:HD13	1:W:366:ARG:NE	1.70	1.04
1:W:410:LEU:HB3	1:W:423:PRO:HG2	1.39	1.04
1:a:192:VAL:HG21	1:a:221:ILE:HD13	1.07	1.04
1:a:218:LYS:C	1:a:221:ILE:HG22	1.82	1.04
1:a:463:LEU:HB2	1:a:467:PHE:CE1	1.92	1.04
1:c:360:LEU:HD12	1:c:405:LEU:HD21	1.08	1.04
1:A:15:ILE:HD13	1:A:95:GLU:C	1.82	1.03
1:A:146:ASN:O	1:A:280:THR:HB	1.57	1.03
1:A:279:THR:CG2	1:S:118:GLN:NE2	2.21	1.03
1:A:405:LEU:HD12	1:A:411:VAL:HG21	1.09	1.03
1:A:410:LEU:HB3	1:A:423:PRO:HG2	1.39	1.03
1:C:178:ILE:CG2	1:C:241:LEU:HD22	1.87	1.03
1:C:410:LEU:HB3	1:C:423:PRO:HG2	1.39	1.03
1:E:118:GLN:NE2	1:G:279:THR:CG2	2.21	1.03
1:G:150:ASP:OD2	1:G:272:THR:HG21	1.58	1.03
1:I:118:GLN:NE2	1:K:279:THR:CG2	2.21	1.03
1:I:357:LEU:HD13	1:I:366:ARG:NE	1.70	1.03
1:K:118:GLN:NE2	1:M:279:THR:CG2	2.21	1.03
1:O:49:ILE:O	1:O:51:SER:HB3	1.57	1.03
1:O:192:VAL:HG21	1:O:221:ILE:HD13	1.07	1.03
1:O:218:LYS:C	1:O:221:ILE:HG22	1.82	1.03
1:O:365:TYR:CD1	1:O:405:LEU:HD23	1.92	1.03
1:Q:377:PRO:O	1:Q:427:LEU:HD21	1.56	1.03
1:S:150:ASP:OD2	1:S:272:THR:HG21	1.58	1.03
1:S:192:VAL:HG21	1:S:221:ILE:HD13	1.07	1.03
1:S:279:THR:CG2	1:U:118:GLN:NE2	2.21	1.03
1:U:87:PHE:HE2	2:V:83:GLY:CA	1.61	1.03
1:U:234:SER:HB3	1:U:236:PRO:HD2	1.39	1.03
1:W:178:ILE:CG2	1:W:241:LEU:HD22	1.87	1.03
1:a:49:ILE:O	1:a:51:SER:HB3	1.57	1.03
1:a:234:SER:HB3	1:a:236:PRO:HD2	1.39	1.03
1:a:279:THR:CG2	1:c:118:GLN:NE2	2.21	1.03
1:a:365:TYR:CD1	1:a:405:LEU:HD23	1.92	1.03
1:c:279:THR:CG2	1:e:118:GLN:NE2	2.21	1.03
1:c:365:TYR:CD1	1:c:405:LEU:HD23	1.92	1.03

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:e:218:LYS:C	1:e:221:ILE:HG22	1.82	1.03
1:e:365:TYR:HD1	1:e:405:LEU:HD23	1.19	1.03
1:A:19:PHE:CE2	1:A:92:ILE:CG1	2.37	1.03
1:A:118:GLN:NE2	1:e:279:THR:CG2	2.21	1.03
1:C:357:LEU:HD13	1:C:366:ARG:NE	1.70	1.03
1:C:463:LEU:HB2	1:C:467:PHE:CE1	1.92	1.03
1:E:234:SER:HB3	1:E:236:PRO:HD2	1.39	1.03
1:E:357:LEU:HD13	1:E:366:ARG:NE	1.70	1.03
1:K:146:ASN:O	1:K:280:THR:HB	1.57	1.03
1:M:365:TYR:CD1	1:M:405:LEU:HD23	1.92	1.03
1:M:463:LEU:HB2	1:M:467:PHE:CE1	1.92	1.03
1:O:234:SER:HB3	1:O:236:PRO:HD2	1.39	1.03
1:O:377:PRO:O	1:O:427:LEU:HD21	1.56	1.03
1:Q:19:PHE:HE2	1:Q:92:ILE:HG12	1.22	1.03
1:Q:87:PHE:CD2	2:R:83:GLY:CA	2.37	1.03
1:U:357:LEU:HD13	1:U:366:ARG:NE	1.70	1.03
1:W:463:LEU:HB2	1:W:467:PHE:CE1	1.92	1.03
1:Y:184:LYS:O	1:Y:185:ASN:C	1.98	1.03
1:c:15:ILE:HD13	1:c:95:GLU:HB3	1.37	1.03
1:c:463:LEU:HB2	1:c:467:PHE:CE1	1.92	1.03
1:e:146:ASN:O	1:e:280:THR:HB	1.57	1.03
1:e:371:ARG:CG	1:e:389:ILE:CD1	2.13	1.03
1:A:150:ASP:OD2	1:A:272:THR:HG21	1.58	1.03
1:A:357:LEU:HD13	1:A:366:ARG:NE	1.70	1.03
1:C:365:TYR:HD1	1:C:405:LEU:HD23	1.19	1.03
1:E:49:ILE:O	1:E:51:SER:HB3	1.57	1.03
1:G:192:VAL:HG21	1:G:221:ILE:HD13	1.07	1.03
1:I:410:LEU:HB3	1:I:423:PRO:HG2	1.39	1.03
1:K:41:SER:HB2	1:K:44:GLU:CB	1.86	1.03
1:K:365:TYR:HD1	1:K:405:LEU:HD23	1.19	1.03
1:O:410:LEU:C	1:O:423:PRO:HG3	1.84	1.03
1:Q:184:LYS:O	1:Q:185:ASN:C	1.98	1.03
1:U:150:ASP:OD2	1:U:272:THR:HG21	1.58	1.03
1:Y:87:PHE:CD2	2:Z:83:GLY:CA	2.37	1.03
1:Y:365:TYR:HD1	1:Y:405:LEU:HD23	1.19	1.03
1:Y:377:PRO:O	1:Y:427:LEU:HD21	1.56	1.03
1:a:410:LEU:C	1:a:423:PRO:HG3	1.84	1.03
1:e:87:PHE:HE2	2:f:83:GLY:CA	1.61	1.03
1:e:377:PRO:O	1:e:427:LEU:HD21	1.56	1.03
1:C:118:GLN:NE2	1:E:279:THR:CG2	2.21	1.03
1:C:518:LEU:CD2	1:C:646:UNK:CB	2.37	1.03

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:150:ASP:OD2	1:E:272:THR:HG21	1.58	1.03
1:I:150:ASP:OD2	1:I:272:THR:HG21	1.58	1.03
1:K:192:VAL:HG21	1:K:221:ILE:HD13	1.07	1.03
1:K:371:ARG:CG	1:K:389:ILE:CD1	2.13	1.03
1:M:15:ILE:HD13	1:M:95:GLU:HB3	1.37	1.03
1:O:118:GLN:NE2	1:Q:279:THR:CG2	2.21	1.03
1:O:129:GLN:HB3	1:O:130:PRO:HD3	1.37	1.03
1:O:178:ILE:CG2	1:O:241:LEU:HD22	1.87	1.03
1:O:365:TYR:HD1	1:O:405:LEU:HD23	1.19	1.03
1:Q:178:ILE:HG21	1:Q:241:LEU:HD22	1.41	1.03
1:Q:518:LEU:CD2	1:Q:646:UNK:CB	2.37	1.03
1:S:410:LEU:C	1:S:423:PRO:HG3	1.84	1.03
1:U:49:ILE:O	1:U:51:SER:HB3	1.57	1.03
1:U:279:THR:CG2	1:W:118:GLN:NE2	2.21	1.03
1:W:365:TYR:HD1	1:W:405:LEU:HD23	1.19	1.03
1:Y:178:ILE:HG21	1:Y:241:LEU:HD22	1.41	1.03
1:Y:518:LEU:CD2	1:Y:646:UNK:CB	2.37	1.03
1:e:41:SER:HB2	1:e:44:GLU:CB	1.86	1.03
1:A:142:ARG:NH1	1:S:111:ASP:OD2	1.92	1.03
1:A:365:TYR:HD1	1:A:405:LEU:HD23	1.19	1.03
1:C:184:LYS:O	1:C:185:ASN:C	1.98	1.03
1:G:111:ASP:OD2	1:I:142:ARG:NH1	1.92	1.03
1:G:171:GLN:HE21	1:G:178:ILE:HD11	1.23	1.03
1:M:150:ASP:OD2	1:M:272:THR:HG21	1.58	1.03
1:O:87:PHE:CD2	2:P:83:GLY:CA	2.37	1.03
1:Q:357:LEU:HG	1:Q:430:LYS:HE2	1.38	1.03
1:Q:360:LEU:HD12	1:Q:405:LEU:HD21	1.08	1.03
1:S:171:GLN:HE21	1:S:178:ILE:HD11	1.23	1.03
1:U:146:ASN:O	1:U:280:THR:HB	1.57	1.03
1:W:142:ARG:NH1	1:Y:111:ASP:OD2	1.92	1.03
1:W:184:LYS:O	1:W:185:ASN:C	1.98	1.03
1:W:518:LEU:CD2	1:W:646:UNK:CB	2.37	1.03
1:Y:279:THR:CG2	1:a:118:GLN:NE2	2.21	1.03
1:Y:360:LEU:HD12	1:Y:405:LEU:HD21	1.08	1.03
1:a:129:GLN:HB3	1:a:130:PRO:HD3	1.37	1.03
1:a:369:PHE:HZ	1:a:410:LEU:HG	1.00	1.03
1:c:365:TYR:HD1	1:c:405:LEU:HD23	1.19	1.03
1:e:192:VAL:HG21	1:e:221:ILE:HD13	1.07	1.03
1:A:184:LYS:O	1:A:185:ASN:C	1.98	1.02
1:C:142:ARG:NH1	1:Q:111:ASP:OD2	1.92	1.02
1:C:377:PRO:O	1:C:427:LEU:HD21	1.56	1.02

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:146:ASN:O	1:E:280:THR:HB	1.57	1.02
1:G:410:LEU:C	1:G:423:PRO:HG3	1.84	1.02
1:I:365:TYR:HD1	1:I:405:LEU:HD23	1.19	1.02
1:K:111:ASP:OD2	1:M:142:ARG:NH1	1.92	1.02
1:K:365:TYR:CD1	1:K:405:LEU:HD23	1.92	1.02
1:K:377:PRO:O	1:K:427:LEU:HD21	1.56	1.02
1:M:192:VAL:HG21	1:M:221:ILE:HD13	1.07	1.02
1:O:111:ASP:OD2	1:Q:142:ARG:NH1	1.92	1.02
1:O:178:ILE:HG21	1:O:241:LEU:HD22	1.41	1.02
1:Q:74:GLN:O	1:Q:78:GLU:HG3	1.59	1.02
1:S:49:ILE:O	1:S:51:SER:HB3	1.57	1.02
1:W:49:ILE:O	1:W:51:SER:HB3	1.57	1.02
1:W:234:SER:HB3	1:W:236:PRO:HD2	1.39	1.02
1:W:377:PRO:O	1:W:427:LEU:HD21	1.56	1.02
1:Y:74:GLN:O	1:Y:78:GLU:HG3	1.59	1.02
1:Y:142:ARG:NH1	1:a:111:ASP:OD2	1.92	1.02
1:Y:234:SER:HB3	1:Y:236:PRO:HD2	1.39	1.02
1:Y:357:LEU:HG	1:Y:430:LYS:HE2	1.38	1.02
1:a:178:ILE:HG21	1:a:241:LEU:HD22	1.41	1.02
1:a:410:LEU:CB	1:a:423:PRO:CD	2.22	1.02
1:c:35:MET:CE	1:c:39:ILE:HD13	1.90	1.02
1:c:150:ASP:OD2	1:c:272:THR:HG21	1.58	1.02
1:c:184:LYS:O	1:c:185:ASN:C	1.98	1.02
1:e:184:LYS:O	1:e:185:ASN:C	1.98	1.02
1:C:49:ILE:O	1:C:51:SER:HB3	1.57	1.02
1:C:234:SER:HB3	1:C:236:PRO:HD2	1.39	1.02
1:G:49:ILE:O	1:G:51:SER:HB3	1.57	1.02
1:K:153:LEU:HD21	1:K:267:ARG:HH11	1.16	1.02
1:K:410:LEU:C	1:K:423:PRO:HG3	1.84	1.02
1:M:35:MET:CE	1:M:39:ILE:HD13	1.90	1.02
1:O:150:ASP:OD2	1:O:272:THR:HG21	1.58	1.02
1:O:518:LEU:CD2	1:O:646:UNK:CB	2.37	1.02
1:Q:35:MET:CE	1:Q:39:ILE:HD13	1.90	1.02
1:Q:218:LYS:C	1:Q:221:ILE:HG22	1.82	1.02
1:Q:234:SER:HB3	1:Q:236:PRO:HD2	1.39	1.02
1:S:146:ASN:O	1:S:280:THR:HB	1.57	1.02
1:Y:15:ILE:HD13	1:Y:95:GLU:HB3	1.37	1.02
1:Y:35:MET:CE	1:Y:39:ILE:HD13	1.90	1.02
1:a:87:PHE:CD2	2:b:83:GLY:CA	2.37	1.02
1:a:365:TYR:HD1	1:a:405:LEU:HD23	1.19	1.02
1:a:518:LEU:CD2	1:a:646:UNK:CB	2.37	1.02

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:c:142:ARG:NH1	1:e:111:ASP:OD2	1.92	1.02
1:c:192:VAL:HG21	1:c:221:ILE:HD13	1.07	1.02
1:e:153:LEU:HD21	1:e:267:ARG:HH11	1.16	1.02
1:e:365:TYR:CD1	1:e:405:LEU:HD23	1.92	1.02
1:e:369:PHE:HZ	1:e:410:LEU:HG	1.00	1.02
1:e:410:LEU:HB3	1:e:423:PRO:HG2	1.39	1.02
1:e:410:LEU:C	1:e:423:PRO:HG3	1.84	1.02
1:A:518:LEU:CD2	1:A:646:UNK:CB	2.37	1.02
1:C:410:LEU:C	1:C:423:PRO:HG3	1.84	1.02
1:E:178:ILE:CG2	1:E:241:LEU:HD22	1.87	1.02
1:E:184:LYS:O	1:E:185:ASN:C	1.98	1.02
1:E:410:LEU:C	1:E:423:PRO:HG3	1.84	1.02
1:I:184:LYS:O	1:I:185:ASN:C	1.98	1.02
1:I:365:TYR:CD1	1:I:405:LEU:HD23	1.92	1.02
1:I:518:LEU:CD2	1:I:646:UNK:CB	2.37	1.02
1:K:184:LYS:O	1:K:185:ASN:C	1.98	1.02
1:K:518:LEU:CD2	1:K:646:UNK:CB	2.37	1.02
1:M:171:GLN:HE21	1:M:178:ILE:HD11	1.23	1.02
1:M:184:LYS:O	1:M:185:ASN:C	1.98	1.02
1:M:365:TYR:HD1	1:M:405:LEU:HD23	1.19	1.02
1:O:369:PHE:HZ	1:O:410:LEU:HG	1.00	1.02
1:Q:410:LEU:C	1:Q:423:PRO:HG3	1.84	1.02
1:U:178:ILE:CG2	1:U:241:LEU:HD22	1.87	1.02
1:Y:218:LYS:C	1:Y:221:ILE:HG22	1.82	1.02
1:Y:410:LEU:C	1:Y:423:PRO:HG3	1.84	1.02
1:C:35:MET:CE	1:C:39:ILE:HD13	1.89	1.02
1:C:111:ASP:OD2	1:E:142:ARG:NH1	1.92	1.02
1:E:111:ASP:OD2	1:G:142:ARG:NH1	1.92	1.02
1:E:365:TYR:HD1	1:E:405:LEU:HD23	1.19	1.02
1:G:146:ASN:O	1:G:280:THR:HB	1.57	1.02
1:G:218:LYS:C	1:G:221:ILE:HG22	1.82	1.02
1:G:365:TYR:HD1	1:G:405:LEU:HD23	1.19	1.02
1:K:410:LEU:HB3	1:K:423:PRO:HG2	1.39	1.02
1:M:410:LEU:C	1:M:423:PRO:HG3	1.84	1.02
1:O:410:LEU:CB	1:O:423:PRO:CD	2.22	1.02
1:Q:207:TRP:HE1	1:Q:227:GLU:CG	1.73	1.02
1:Q:410:LEU:HB3	1:Q:423:PRO:HG2	1.39	1.02
1:Q:463:LEU:HB2	1:Q:467:PHE:CE1	1.92	1.02
1:S:142:ARG:NH1	1:U:111:ASP:OD2	1.92	1.02
1:S:365:TYR:HD1	1:S:405:LEU:HD23	1.19	1.02
1:U:184:LYS:O	1:U:185:ASN:C	1.98	1.02

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:U:365:TYR:HD1	1:U:405:LEU:HD23	1.19	1.02
1:U:410:LEU:C	1:U:423:PRO:HG3	1.84	1.02
1:W:178:ILE:HG21	1:W:241:LEU:HD22	1.41	1.02
1:W:279:THR:CG2	1:Y:118:GLN:NE2	2.21	1.02
1:W:410:LEU:C	1:W:423:PRO:HG3	1.84	1.02
1:Y:207:TRP:HE1	1:Y:227:GLU:CG	1.73	1.02
1:Y:463:LEU:HB2	1:Y:467:PHE:CE1	1.92	1.02
1:a:150:ASP:OD2	1:a:272:THR:HG21	1.58	1.02
1:e:357:LEU:HG	1:e:430:LYS:HE2	1.38	1.02
1:e:518:LEU:CD2	1:e:646:UNK:CB	2.37	1.02
1:A:218:LYS:C	1:A:221:ILE:HG22	1.82	1.02
1:A:374:VAL:HG22	1:A:375:PHE:CD1	1.95	1.02
1:A:410:LEU:C	1:A:423:PRO:HG3	1.84	1.02
1:C:150:ASP:OD2	1:C:272:THR:HG21	1.58	1.02
1:C:178:ILE:HG21	1:C:241:LEU:HD22	1.41	1.02
1:C:279:THR:CG2	1:Q:118:GLN:NE2	2.21	1.02
1:E:374:VAL:HG22	1:E:375:PHE:CD1	1.95	1.02
1:E:518:LEU:CD2	1:E:646:UNK:CB	2.37	1.02
1:G:365:TYR:CD1	1:G:405:LEU:HD23	1.92	1.02
1:G:518:LEU:CD2	1:G:646:UNK:CB	2.37	1.02
1:I:218:LYS:C	1:I:221:ILE:HG22	1.82	1.02
1:I:374:VAL:HG22	1:I:375:PHE:CD1	1.95	1.02
1:K:357:LEU:HG	1:K:430:LYS:HE2	1.38	1.02
1:K:369:PHE:HZ	1:K:410:LEU:HG	1.00	1.02
1:M:207:TRP:HE1	1:M:227:GLU:CG	1.73	1.02
1:Q:15:ILE:HD13	1:Q:95:GLU:HB3	1.37	1.02
1:Q:157:LYS:HA	1:Q:285:LEU:HD12	1.42	1.02
1:Q:365:TYR:CD1	1:Q:405:LEU:HD23	1.92	1.02
1:S:218:LYS:C	1:S:221:ILE:HG22	1.82	1.02
1:U:35:MET:CE	1:U:39:ILE:HD13	1.90	1.02
1:U:142:ARG:NH1	1:W:111:ASP:OD2	1.92	1.02
1:U:374:VAL:HG22	1:U:375:PHE:CD1	1.95	1.02
1:U:518:LEU:CD2	1:U:646:UNK:CB	2.37	1.02
1:W:35:MET:CE	1:W:39:ILE:HD13	1.89	1.02
1:W:150:ASP:OD2	1:W:272:THR:HG21	1.58	1.02
1:Y:410:LEU:HB3	1:Y:423:PRO:HG2	1.39	1.02
1:a:142:ARG:NH1	1:c:111:ASP:OD2	1.92	1.02
1:c:171:GLN:HE21	1:c:178:ILE:HD11	1.23	1.02
1:c:410:LEU:C	1:c:423:PRO:HG3	1.84	1.02
1:e:150:ASP:OD2	1:e:272:THR:HG21	1.58	1.02
1:A:111:ASP:OD2	1:e:142:ARG:NH1	1.92	1.01

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:74:GLN:O	1:C:78:GLU:HG3	1.60	1.01
1:C:374:VAL:CG2	1:C:375:PHE:CD1	2.44	1.01
1:E:35:MET:CE	1:E:39:ILE:HD13	1.90	1.01
1:E:374:VAL:CG2	1:E:375:PHE:CD1	2.44	1.01
1:I:410:LEU:C	1:I:423:PRO:HG3	1.84	1.01
1:K:150:ASP:OD2	1:K:272:THR:HG21	1.58	1.01
1:K:178:ILE:CG2	1:K:241:LEU:HD22	1.87	1.01
1:K:405:LEU:HD12	1:K:411:VAL:CG2	1.90	1.01
1:M:74:GLN:O	1:M:78:GLU:HG3	1.59	1.01
1:M:111:ASP:OD2	1:O:142:ARG:NH1	1.92	1.01
1:M:405:LEU:HD12	1:M:411:VAL:CG2	1.90	1.01
1:O:35:MET:CE	1:O:39:ILE:HD13	1.89	1.01
1:O:184:LYS:O	1:O:185:ASN:C	1.98	1.01
1:O:464:ASP:OD1	1:O:501:ILE:HD11	1.61	1.01
1:S:518:LEU:CD2	1:S:646:UNK:CB	2.37	1.01
1:U:374:VAL:CG2	1:U:375:PHE:CD1	2.44	1.01
1:W:374:VAL:CG2	1:W:375:PHE:CD1	2.44	1.01
1:Y:157:LYS:HA	1:Y:285:LEU:HD12	1.42	1.01
1:Y:365:TYR:CD1	1:Y:405:LEU:HD23	1.92	1.01
1:a:171:GLN:HE21	1:a:178:ILE:HD11	1.23	1.01
1:a:184:LYS:O	1:a:185:ASN:C	1.98	1.01
1:a:464:ASP:OD1	1:a:501:ILE:HD11	1.61	1.01
1:c:207:TRP:HE1	1:c:227:GLU:CG	1.73	1.01
1:c:405:LEU:HD12	1:c:411:VAL:CG2	1.90	1.01
1:e:178:ILE:CG2	1:e:241:LEU:HD22	1.87	1.01
1:e:374:VAL:HG22	1:e:375:PHE:CD1	1.95	1.01
1:A:35:MET:CE	1:A:39:ILE:HD13	1.90	1.01
1:A:377:PRO:O	1:A:427:LEU:HD22	1.61	1.01
1:G:374:VAL:CG2	1:G:375:PHE:CD1	2.44	1.01
1:I:35:MET:CE	1:I:39:ILE:HD13	1.90	1.01
1:I:111:ASP:OD2	1:K:142:ARG:NH1	1.92	1.01
1:I:377:PRO:O	1:I:427:LEU:HD22	1.61	1.01
1:K:74:GLN:O	1:K:78:GLU:HG3	1.60	1.01
1:K:374:VAL:HG22	1:K:375:PHE:CD1	1.95	1.01
1:M:19:PHE:HZ	1:M:92:ILE:CD1	1.73	1.01
1:O:171:GLN:HE21	1:O:178:ILE:HD11	1.23	1.01
1:Q:150:ASP:OD2	1:Q:272:THR:HG21	1.58	1.01
1:S:365:TYR:CD1	1:S:405:LEU:HD23	1.92	1.01
1:S:374:VAL:CG2	1:S:375:PHE:CD1	2.44	1.01
1:S:410:LEU:CB	1:S:423:PRO:CG	1.76	1.01
1:U:19:PHE:HE2	1:U:92:ILE:HG12	1.22	1.01

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:W:74:GLN:O	1:W:78:GLU:HG3	1.60	1.01
1:a:35:MET:CE	1:a:39:ILE:HD13	1.89	1.01
1:c:74:GLN:O	1:c:78:GLU:HG3	1.59	1.01
1:e:74:GLN:O	1:e:78:GLU:HG3	1.60	1.01
1:e:405:LEU:HD12	1:e:411:VAL:CG2	1.90	1.01
1:A:178:ILE:CG2	1:A:241:LEU:HD22	1.87	1.01
1:C:365:TYR:CD1	1:C:405:LEU:HD23	1.92	1.01
1:E:15:ILE:HD13	1:E:95:GLU:HB3	1.37	1.01
1:E:207:TRP:HE1	1:E:227:GLU:CG	1.73	1.01
1:E:464:ASP:OD1	1:E:501:ILE:HD11	1.61	1.01
1:G:464:ASP:OD1	1:G:501:ILE:HD11	1.61	1.01
1:K:19:PHE:HZ	1:K:92:ILE:CD1	1.73	1.01
1:M:157:LYS:HA	1:M:285:LEU:HD12	1.42	1.01
1:M:518:LEU:CD2	1:M:646:UNK:CB	2.37	1.01
1:U:207:TRP:HE1	1:U:227:GLU:CG	1.73	1.01
1:Y:150:ASP:OD2	1:Y:272:THR:HG21	1.58	1.01
1:Y:374:VAL:CG2	1:Y:375:PHE:CD1	2.44	1.01
1:a:405:LEU:HD12	1:a:411:VAL:CG2	1.90	1.01
1:c:19:PHE:HZ	1:c:92:ILE:CD1	1.73	1.01
1:A:19:PHE:HZ	1:A:92:ILE:CD1	1.73	1.01
1:E:148:LEU:HD23	1:E:282:HIS:CD2	1.96	1.01
1:I:19:PHE:HZ	1:I:92:ILE:CD1	1.73	1.01
1:I:178:ILE:CG2	1:I:241:LEU:HD22	1.87	1.01
1:K:35:MET:CE	1:K:39:ILE:HD13	1.89	1.01
1:O:87:PHE:HE2	2:P:83:GLY:CA	1.61	1.01
1:O:405:LEU:HD12	1:O:411:VAL:CG2	1.90	1.01
1:Q:374:VAL:CG2	1:Q:375:PHE:CD1	2.44	1.01
1:S:464:ASP:OD1	1:S:501:ILE:HD11	1.61	1.01
1:U:148:LEU:HD23	1:U:282:HIS:CD2	1.96	1.01
1:U:464:ASP:OD1	1:U:501:ILE:HD11	1.61	1.01
1:c:157:LYS:HA	1:c:285:LEU:HD12	1.42	1.01
1:c:357:LEU:HG	1:c:430:LYS:HE2	1.38	1.01
1:c:518:LEU:CD2	1:c:646:UNK:CB	2.37	1.01
1:e:19:PHE:HZ	1:e:92:ILE:CD1	1.73	1.01
1:A:148:LEU:HD23	1:A:282:HIS:CD2	1.96	1.01
1:A:207:TRP:HE1	1:A:227:GLU:CG	1.73	1.01
1:A:464:ASP:OD1	1:A:501:ILE:HD11	1.61	1.01
1:E:19:PHE:HE2	1:E:92:ILE:HG12	1.22	1.01
1:G:35:MET:CE	1:G:39:ILE:HD13	1.89	1.01
1:G:138:LEU:HD23	1:G:170:VAL:HG13	1.42	1.01
1:I:148:LEU:HD23	1:I:282:HIS:CD2	1.96	1.01

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:207:TRP:HE1	1:I:227:GLU:CG	1.73	1.01
1:I:464:ASP:OD1	1:I:501:ILE:HD11	1.61	1.01
1:K:377:PRO:O	1:K:427:LEU:HD22	1.61	1.01
1:M:178:ILE:HG21	1:M:241:LEU:HD22	1.41	1.01
1:M:357:LEU:HG	1:M:430:LYS:HE2	1.38	1.01
1:Q:49:ILE:O	1:Q:51:SER:HB3	1.57	1.01
1:Q:374:VAL:HG22	1:Q:375:PHE:CD1	1.95	1.01
1:S:19:PHE:HZ	1:S:92:ILE:CD1	1.73	1.01
1:S:178:ILE:CG2	1:S:241:LEU:HD22	1.87	1.01
1:S:374:VAL:HG22	1:S:375:PHE:CD1	1.95	1.01
1:S:377:PRO:O	1:S:427:LEU:HD21	1.56	1.01
1:U:15:ILE:HD13	1:U:95:GLU:HB3	1.37	1.01
1:Y:374:VAL:HG22	1:Y:375:PHE:CD1	1.95	1.01
1:a:74:GLN:O	1:a:78:GLU:HG3	1.60	1.01
1:a:207:TRP:HE1	1:a:227:GLU:CG	1.73	1.01
1:e:35:MET:CE	1:e:39:ILE:HD13	1.89	1.01
1:e:377:PRO:O	1:e:427:LEU:HD22	1.61	1.01
1:A:15:ILE:HD13	1:A:95:GLU:HB3	1.37	1.00
1:A:74:GLN:O	1:A:78:GLU:HG3	1.59	1.00
1:A:405:LEU:HD12	1:A:411:VAL:CG2	1.90	1.00
1:C:171:GLN:HE21	1:C:178:ILE:HD11	1.23	1.00
1:C:207:TRP:HE1	1:C:227:GLU:CG	1.73	1.00
1:C:279:THR:O	1:C:280:THR:CG2	2.09	1.00
1:C:464:ASP:OD1	1:C:501:ILE:HD11	1.61	1.00
1:G:178:ILE:CG2	1:G:241:LEU:HD22	1.87	1.00
1:G:184:LYS:O	1:G:185:ASN:C	1.98	1.00
1:G:374:VAL:HG22	1:G:375:PHE:CD1	1.95	1.00
1:I:74:GLN:O	1:I:78:GLU:HG3	1.59	1.00
1:I:405:LEU:HD12	1:I:411:VAL:CG2	1.90	1.00
1:O:74:GLN:O	1:O:78:GLU:HG3	1.60	1.00
1:O:374:VAL:HG22	1:O:375:PHE:CD1	1.95	1.00
1:S:35:MET:CE	1:S:39:ILE:HD13	1.89	1.00
1:S:74:GLN:O	1:S:78:GLU:HG3	1.60	1.00
1:S:138:LEU:HD23	1:S:170:VAL:HG13	1.42	1.00
1:S:184:LYS:O	1:S:185:ASN:C	1.98	1.00
1:U:279:THR:CG2	1:W:118:GLN:HE22	1.74	1.00
1:W:279:THR:O	1:W:280:THR:CG2	2.09	1.00
1:Y:49:ILE:O	1:Y:51:SER:HB3	1.57	1.00
1:a:374:VAL:HG22	1:a:375:PHE:CD1	1.95	1.00
1:C:118:GLN:HE22	1:E:279:THR:CG2	1.74	1.00
1:C:148:LEU:HD23	1:C:282:HIS:CD2	1.96	1.00

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:357:LEU:CD1	1:C:430:LYS:HZ1	1.62	1.00
1:C:374:VAL:HG22	1:C:375:PHE:CD1	1.95	1.00
1:E:178:ILE:HG21	1:E:241:LEU:HD22	1.41	1.00
1:G:74:GLN:O	1:G:78:GLU:HG3	1.60	1.00
1:G:377:PRO:O	1:G:427:LEU:HD22	1.61	1.00
1:K:464:ASP:OD1	1:K:501:ILE:HD11	1.61	1.00
1:M:374:VAL:HG22	1:M:375:PHE:CD1	1.95	1.00
1:O:207:TRP:HE1	1:O:227:GLU:CG	1.73	1.00
1:S:148:LEU:HD23	1:S:282:HIS:CD2	1.96	1.00
1:W:148:LEU:HD23	1:W:282:HIS:CD2	1.96	1.00
1:W:207:TRP:HE1	1:W:227:GLU:CG	1.73	1.00
1:W:464:ASP:OD1	1:W:501:ILE:HD11	1.61	1.00
1:a:87:PHE:HE2	2:b:83:GLY:CA	1.61	1.00
1:c:178:ILE:HG21	1:c:241:LEU:HD22	1.41	1.00
1:e:207:TRP:HE1	1:e:227:GLU:CG	1.73	1.00
1:A:19:PHE:HE2	1:A:92:ILE:HG12	1.22	1.00
1:E:118:GLN:HE22	1:G:279:THR:CG2	1.74	1.00
1:E:279:THR:O	1:E:280:THR:CG2	2.09	1.00
1:G:148:LEU:HD23	1:G:282:HIS:CD2	1.96	1.00
1:I:15:ILE:HD13	1:I:95:GLU:HB3	1.37	1.00
1:K:207:TRP:HE1	1:K:227:GLU:CG	1.73	1.00
1:O:357:LEU:HG	1:O:430:LYS:HE2	1.38	1.00
1:Q:464:ASP:OD1	1:Q:501:ILE:HD11	1.61	1.00
1:S:279:THR:CG2	1:U:118:GLN:HE22	1.74	1.00
1:S:377:PRO:O	1:S:427:LEU:HD22	1.61	1.00
1:U:74:GLN:O	1:U:78:GLU:HG3	1.59	1.00
1:U:178:ILE:HG21	1:U:241:LEU:HD22	1.41	1.00
1:W:171:GLN:HE21	1:W:178:ILE:HD11	1.23	1.00
1:W:374:VAL:HG22	1:W:375:PHE:CD1	1.95	1.00
1:c:374:VAL:HG22	1:c:375:PHE:CD1	1.95	1.00
1:c:464:ASP:OD1	1:c:501:ILE:HD11	1.61	1.00
1:e:464:ASP:OD1	1:e:501:ILE:HD11	1.61	1.00
1:I:138:LEU:HD23	1:I:170:VAL:HG13	1.42	1.00
1:M:464:ASP:OD1	1:M:501:ILE:HD11	1.61	1.00
1:U:279:THR:O	1:U:280:THR:CG2	2.09	1.00
1:Y:279:THR:CG2	1:a:118:GLN:HE22	1.74	1.00
1:Y:405:LEU:HD12	1:Y:411:VAL:CG2	1.90	1.00
1:Y:410:LEU:CB	1:Y:423:PRO:CD	2.22	1.00
1:a:357:LEU:HG	1:a:430:LYS:HE2	1.38	1.00
1:E:74:GLN:O	1:E:78:GLU:HG3	1.59	1.00
1:O:410:LEU:HB3	1:O:423:PRO:HG2	1.39	1.00

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Y:464:ASP:OD1	1:Y:501:ILE:HD11	1.61	1.00
1:M:374:VAL:CG2	1:M:375:PHE:CD1	2.44	1.00
2:R:62:MET:HA	2:R:62:MET:CE	1.92	1.00
1:U:377:PRO:O	1:U:427:LEU:HD21	1.56	1.00
1:U:405:LEU:HB3	1:U:411:VAL:HG11	1.44	1.00
2:Z:62:MET:HA	2:Z:62:MET:CE	1.92	1.00
1:A:138:LEU:HD23	1:A:170:VAL:HG13	1.42	1.00
1:C:279:THR:CG2	1:Q:118:GLN:HE22	1.74	1.00
1:C:405:LEU:HB3	1:C:411:VAL:HG11	1.44	1.00
1:E:405:LEU:HB3	1:E:411:VAL:HG11	1.44	1.00
1:G:405:LEU:HD12	1:G:411:VAL:CG2	1.90	1.00
1:G:405:LEU:HB3	1:G:411:VAL:HG11	1.44	1.00
1:K:118:GLN:HE22	1:M:279:THR:HG21	0.88	1.00
1:O:369:PHE:HZ	1:O:410:LEU:CD1	1.75	1.00
1:Q:405:LEU:HD12	1:Q:411:VAL:CG2	1.90	1.00
1:S:405:LEU:HB3	1:S:411:VAL:HG11	1.44	1.00
1:W:405:LEU:HB3	1:W:411:VAL:HG11	1.44	1.00
1:W:410:LEU:HD23	1:W:426:TYR:HD1	1.27	1.00
1:a:369:PHE:HZ	1:a:410:LEU:CD1	1.75	1.00
1:c:374:VAL:CG2	1:c:375:PHE:CD1	2.44	1.00
1:C:410:LEU:HD23	1:C:426:TYR:HD1	1.27	0.99
1:G:207:TRP:HE1	1:G:227:GLU:CG	1.73	0.99
1:Q:171:GLN:HE21	1:Q:178:ILE:HD11	1.23	0.99
1:S:207:TRP:HE1	1:S:227:GLU:CG	1.73	0.99
1:c:410:LEU:HB3	1:c:423:PRO:HG2	1.39	0.99
1:A:118:GLN:HE22	1:e:279:THR:CG2	1.74	0.99
1:A:405:LEU:HB3	1:A:411:VAL:HG11	1.44	0.99
1:I:19:PHE:HE2	1:I:92:ILE:HG12	1.22	0.99
1:Q:369:PHE:HZ	1:Q:410:LEU:CD1	1.75	0.99
1:S:405:LEU:HD12	1:S:411:VAL:CG2	1.90	0.99
1:W:279:THR:CG2	1:Y:118:GLN:HE22	1.74	0.99
1:a:157:LYS:HA	1:a:285:LEU:HD12	1.42	0.99
1:a:410:LEU:HB3	1:a:423:PRO:HG2	1.39	0.99
1:E:377:PRO:O	1:E:427:LEU:HD21	1.56	0.99
1:I:171:GLN:HE21	1:I:178:ILE:HD11	1.23	0.99
1:I:405:LEU:HB3	1:I:411:VAL:HG11	1.44	0.99
1:Y:369:PHE:HZ	1:Y:410:LEU:CD1	1.75	0.99
1:e:374:VAL:CG2	1:e:375:PHE:CD1	2.44	0.99
1:A:171:GLN:HE21	1:A:178:ILE:HD11	1.23	0.99
1:C:405:LEU:HD12	1:C:411:VAL:CG2	1.90	0.99
1:I:374:VAL:CG2	1:I:375:PHE:CD1	2.44	0.99

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:178:ILE:CG2	1:M:241:LEU:HD22	1.87	0.99
1:Q:410:LEU:CB	1:Q:423:PRO:CD	2.22	0.99
1:S:157:LYS:HA	1:S:285:LEU:HD12	1.42	0.99
1:S:279:THR:O	1:S:280:THR:CG2	2.09	0.99
1:U:138:LEU:HD23	1:U:170:VAL:HG13	1.42	0.99
1:c:148:LEU:HD23	1:c:282:HIS:CD2	1.96	0.99
1:c:279:THR:HG21	1:e:118:GLN:HE22	0.88	0.99
1:E:138:LEU:HD23	1:E:170:VAL:HG13	1.42	0.99
1:E:171:GLN:HE21	1:E:178:ILE:HD11	1.23	0.99
1:E:405:LEU:HD12	1:E:411:VAL:CG2	1.90	0.99
1:G:157:LYS:HA	1:G:285:LEU:HD12	1.42	0.99
1:K:374:VAL:CG2	1:K:375:PHE:CD1	2.44	0.99
1:M:148:LEU:HD23	1:M:282:HIS:CD2	1.96	0.99
1:M:410:LEU:HD23	1:M:426:TYR:HD1	1.27	0.99
1:Y:171:GLN:HE21	1:Y:178:ILE:HD11	1.23	0.99
1:c:377:PRO:O	1:c:427:LEU:HD22	1.61	0.99
1:A:374:VAL:CG2	1:A:375:PHE:CD1	2.44	0.99
1:C:47:HIS:O	1:C:50:MET:HB2	1.63	0.99
1:G:279:THR:O	1:G:280:THR:CG2	2.09	0.99
1:K:15:ILE:CD1	1:K:95:GLU:C	2.36	0.99
1:K:148:LEU:HD23	1:K:282:HIS:CD2	1.96	0.99
1:K:369:PHE:HZ	1:K:410:LEU:CD1	1.75	0.99
1:M:377:PRO:O	1:M:427:LEU:HD22	1.61	0.99
1:M:410:LEU:HB3	1:M:423:PRO:HG2	1.39	0.99
2:N:62:MET:HA	2:N:62:MET:CE	1.92	0.99
1:O:148:LEU:HD23	1:O:282:HIS:CD2	1.96	0.99
1:O:157:LYS:HA	1:O:285:LEU:HD12	1.42	0.99
1:O:279:THR:O	1:O:280:THR:CG2	2.09	0.99
1:W:47:HIS:O	1:W:50:MET:HB2	1.63	0.99
1:W:405:LEU:HD12	1:W:411:VAL:CG2	1.90	0.99
1:a:279:THR:O	1:a:280:THR:CG2	2.09	0.99
1:c:178:ILE:CG2	1:c:241:LEU:HD22	1.87	0.99
1:e:15:ILE:CD1	1:e:95:GLU:C	2.36	0.99
1:A:47:HIS:O	1:A:50:MET:HB2	1.63	0.99
1:A:369:PHE:HZ	1:A:410:LEU:CD1	1.75	0.99
1:I:47:HIS:O	1:I:50:MET:HB2	1.63	0.99
1:I:279:THR:O	1:I:280:THR:CG2	2.09	0.99
1:I:369:PHE:HZ	1:I:410:LEU:CD1	1.75	0.99
1:O:374:VAL:CG2	1:O:375:PHE:CD1	2.44	0.99
1:Q:405:LEU:HB3	1:Q:411:VAL:HG11	1.44	0.99
1:U:405:LEU:HD12	1:U:411:VAL:CG2	1.90	0.99

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Y:377:PRO:O	1:Y:427:LEU:HD22	1.61	0.99
1:Y:405:LEU:HB3	1:Y:411:VAL:HG11	1.44	0.99
1:a:148:LEU:HD23	1:a:282:HIS:CD2	1.96	0.99
1:a:374:VAL:CG2	1:a:375:PHE:CD1	2.44	0.99
1:c:410:LEU:HD23	1:c:426:TYR:HD1	1.27	0.99
2:d:62:MET:HA	2:d:62:MET:CE	1.92	0.99
1:e:369:PHE:HZ	1:e:410:LEU:CD1	1.75	0.99
1:A:279:THR:O	1:A:280:THR:CG2	2.09	0.99
1:G:178:ILE:HG21	1:G:241:LEU:HD22	1.41	0.99
1:Q:410:LEU:HD23	1:Q:426:TYR:HD1	1.27	0.99
2:X:82:ARG:HH11	2:X:82:ARG:HG3	1.27	0.99
1:Y:410:LEU:HD23	1:Y:426:TYR:HD1	1.27	0.99
1:e:148:LEU:HD23	1:e:282:HIS:CD2	1.96	0.99
1:e:279:THR:O	1:e:280:THR:CG2	2.09	0.99
1:A:357:LEU:HD12	1:A:430:LYS:HZ1	0.86	0.99
1:E:369:PHE:HZ	1:E:410:LEU:CD1	1.75	0.99
1:K:279:THR:O	1:K:280:THR:CG2	2.09	0.99
1:S:178:ILE:HG21	1:S:241:LEU:HD22	1.41	0.99
1:U:171:GLN:HE21	1:U:178:ILE:HD11	1.23	0.99
1:U:369:PHE:HZ	1:U:410:LEU:CD1	1.75	0.99
1:W:377:PRO:O	1:W:427:LEU:HD22	1.61	0.99
1:A:178:ILE:HG21	1:A:241:LEU:HD22	1.41	0.99
2:D:62:MET:HA	2:D:62:MET:CE	1.92	0.99
2:D:82:ARG:HH11	2:D:82:ARG:HG3	1.27	0.99
2:F:81:GLN:HA	2:F:81:GLN:HE21	1.28	0.99
1:I:178:ILE:HG21	1:I:241:LEU:HD22	1.41	0.99
1:Q:377:PRO:O	1:Q:427:LEU:HD22	1.61	0.99
1:S:47:HIS:O	1:S:50:MET:HB2	1.63	0.99
1:U:15:ILE:CD1	1:U:95:GLU:C	2.36	0.99
2:V:81:GLN:HA	2:V:81:GLN:HE21	1.28	0.99
1:M:118:GLN:HE22	1:O:279:THR:CG2	1.74	0.98
2:P:82:ARG:HH11	2:P:82:ARG:HG3	1.27	0.98
2:X:62:MET:HA	2:X:62:MET:CE	1.92	0.98
1:a:15:ILE:CD1	1:a:95:GLU:C	2.36	0.98
1:a:138:LEU:HD23	1:a:170:VAL:HG13	1.42	0.98
1:a:279:THR:CG2	1:c:118:GLN:HE22	1.74	0.98
1:a:377:PRO:O	1:a:427:LEU:HD22	1.61	0.98
1:c:279:THR:O	1:c:280:THR:CG2	2.09	0.98
1:c:369:PHE:HZ	1:c:410:LEU:CD1	1.75	0.98
1:C:365:TYR:OH	1:C:404:LYS:CG	2.12	0.98
1:E:15:ILE:CD1	1:E:95:GLU:C	2.36	0.98

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:377:PRO:O	1:E:427:LEU:HD22	1.61	0.98
2:F:82:ARG:HG3	2:F:82:ARG:HH11	1.28	0.98
1:G:15:ILE:CD1	1:G:95:GLU:C	2.36	0.98
1:G:47:HIS:O	1:G:50:MET:HB2	1.63	0.98
1:K:118:GLN:HE22	1:M:279:THR:CG2	1.74	0.98
1:K:357:LEU:HD12	1:K:430:LYS:HZ1	0.85	0.98
1:K:357:LEU:CG	1:K:430:LYS:HE2	1.93	0.98
1:M:279:THR:O	1:M:280:THR:CG2	2.09	0.98
1:O:15:ILE:CD1	1:O:95:GLU:C	2.36	0.98
1:O:138:LEU:HD23	1:O:170:VAL:HG13	1.42	0.98
2:T:81:GLN:HE21	2:T:81:GLN:HA	1.28	0.98
1:U:410:LEU:HD23	1:U:426:TYR:HD1	1.27	0.98
1:W:48:ILE:HD13	1:W:61:LEU:HA	1.45	0.98
1:Y:148:LEU:HD23	1:Y:282:HIS:CD2	1.96	0.98
1:e:357:LEU:CG	1:e:430:LYS:HE2	1.93	0.98
1:A:15:ILE:CD1	1:A:95:GLU:C	2.36	0.98
1:A:157:LYS:HA	1:A:285:LEU:CD1	1.94	0.98
1:C:377:PRO:O	1:C:427:LEU:HD22	1.61	0.98
1:G:48:ILE:HD13	1:G:61:LEU:HA	1.45	0.98
2:H:81:GLN:HE21	2:H:81:GLN:HA	1.28	0.98
1:I:157:LYS:HA	1:I:285:LEU:CD1	1.94	0.98
1:K:193:LEU:CD1	1:K:217:ILE:HG13	1.94	0.98
1:M:15:ILE:CD1	1:M:95:GLU:C	2.36	0.98
1:M:365:TYR:OH	1:M:404:LYS:CG	2.12	0.98
1:M:369:PHE:HZ	1:M:410:LEU:CD1	1.75	0.98
1:O:377:PRO:O	1:O:427:LEU:HD22	1.61	0.98
1:W:365:TYR:OH	1:W:404:LYS:CG	2.12	0.98
1:a:178:ILE:CG2	1:a:241:LEU:HD22	1.87	0.98
2:b:82:ARG:HH11	2:b:82:ARG:HG3	1.27	0.98
1:e:193:LEU:CD1	1:e:217:ILE:HG13	1.94	0.98
1:C:48:ILE:HD13	1:C:61:LEU:HA	1.45	0.98
1:E:48:ILE:HD13	1:E:61:LEU:HA	1.45	0.98
1:E:157:LYS:HA	1:E:285:LEU:CD1	1.94	0.98
1:M:47:HIS:O	1:M:50:MET:HB2	1.63	0.98
1:O:193:LEU:CD1	1:O:217:ILE:HG13	1.94	0.98
1:Q:148:LEU:HD23	1:Q:282:HIS:CD2	1.96	0.98
1:S:15:ILE:CD1	1:S:95:GLU:C	2.36	0.98
1:U:157:LYS:HA	1:U:285:LEU:HD12	1.42	0.98
1:U:193:LEU:CD1	1:U:217:ILE:HG13	1.94	0.98
2:V:82:ARG:HG3	2:V:82:ARG:HH11	1.28	0.98
1:a:193:LEU:CD1	1:a:217:ILE:HG13	1.94	0.98

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:a:357:LEU:CG	1:a:430:LYS:HE2	1.93	0.98
1:c:47:HIS:O	1:c:50:MET:HB2	1.63	0.98
1:c:279:THR:CG2	1:e:118:GLN:HE22	1.74	0.98
1:c:365:TYR:OH	1:c:404:LYS:CG	2.12	0.98
1:E:157:LYS:HA	1:E:285:LEU:HD12	1.42	0.98
1:E:193:LEU:CD1	1:E:217:ILE:HG13	1.94	0.98
1:E:410:LEU:HD23	1:E:426:TYR:HD1	1.27	0.98
1:O:357:LEU:CG	1:O:430:LYS:HE2	1.93	0.98
1:Q:47:HIS:O	1:Q:50:MET:HB2	1.63	0.98
1:S:48:ILE:HD13	1:S:61:LEU:HA	1.45	0.98
1:U:157:LYS:HA	1:U:285:LEU:CD1	1.94	0.98
1:W:157:LYS:HA	1:W:285:LEU:CD1	1.94	0.98
1:Y:47:HIS:O	1:Y:50:MET:HB2	1.63	0.98
1:Y:279:THR:O	1:Y:280:THR:CG2	2.09	0.98
1:a:365:TYR:OH	1:a:404:LYS:CG	2.12	0.98
1:A:371:ARG:HB3	1:A:389:ILE:CG1	1.94	0.98
1:C:157:LYS:HA	1:C:285:LEU:CD1	1.94	0.98
1:I:15:ILE:CD1	1:I:95:GLU:C	2.36	0.98
1:I:371:ARG:HB3	1:I:389:ILE:CG1	1.94	0.98
1:M:357:LEU:CG	1:M:430:LYS:HE2	1.93	0.98
1:O:365:TYR:OH	1:O:404:LYS:CG	2.12	0.98
1:Q:279:THR:O	1:Q:280:THR:CG2	2.09	0.98
1:U:48:ILE:HD13	1:U:61:LEU:HA	1.45	0.98
1:A:157:LYS:HA	1:A:285:LEU:HD12	1.42	0.98
1:C:15:ILE:CD1	1:C:95:GLU:C	2.36	0.98
1:E:234:SER:CB	1:E:236:PRO:HD2	1.94	0.98
1:G:193:LEU:CD1	1:G:217:ILE:HG13	1.94	0.98
1:G:234:SER:CB	1:G:236:PRO:HD2	1.94	0.98
1:K:178:ILE:HG21	1:K:241:LEU:HD22	1.41	0.98
1:Q:48:ILE:HD13	1:Q:61:LEU:HA	1.45	0.98
1:S:234:SER:CB	1:S:236:PRO:HD2	1.94	0.98
1:U:369:PHE:HZ	1:U:410:LEU:HG	1.00	0.98
1:U:377:PRO:O	1:U:427:LEU:HD22	1.61	0.98
1:Y:48:ILE:HD13	1:Y:61:LEU:HA	1.45	0.98
1:Y:357:LEU:HD12	1:Y:430:LYS:HZ1	0.82	0.98
1:c:15:ILE:CD1	1:c:95:GLU:C	2.36	0.98
1:e:405:LEU:HB3	1:e:411:VAL:HG11	1.44	0.98
1:C:193:LEU:CD1	1:C:217:ILE:HG13	1.94	0.98
2:D:81:GLN:HE21	2:D:81:GLN:HA	1.28	0.98
1:S:193:LEU:CD1	1:S:217:ILE:HG13	1.94	0.98
1:U:234:SER:CB	1:U:236:PRO:HD2	1.94	0.98

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:U:365:TYR:OH	1:U:404:LYS:CG	2.12	0.98
1:U:371:ARG:HD2	1:U:389:ILE:HD13	1.45	0.98
1:W:369:PHE:HZ	1:W:410:LEU:CD1	1.75	0.98
2:X:81:GLN:HE21	2:X:81:GLN:HA	1.28	0.98
1:Y:203:ILE:HG23	1:Y:237:TYR:HH	1.18	0.98
1:c:357:LEU:CG	1:c:430:LYS:HE2	1.93	0.98
1:e:287:HIS:CG	1:e:288:HIS:CD2	2.52	0.98
1:e:357:LEU:HD12	1:e:430:LYS:HZ1	0.83	0.98
1:A:234:SER:CB	1:A:236:PRO:HD2	1.94	0.98
1:E:365:TYR:OH	1:E:404:LYS:CG	2.12	0.98
1:I:157:LYS:HA	1:I:285:LEU:HD12	1.42	0.98
1:I:357:LEU:HD12	1:I:430:LYS:HZ1	0.85	0.98
1:I:410:LEU:HD23	1:I:426:TYR:HD1	1.27	0.98
1:K:287:HIS:CG	1:K:288:HIS:CD2	2.52	0.98
1:K:405:LEU:HB3	1:K:411:VAL:HG11	1.44	0.98
1:O:410:LEU:HD23	1:O:426:TYR:HD1	1.27	0.98
1:Q:357:LEU:CG	1:Q:430:LYS:HE2	1.93	0.98
1:S:357:LEU:CG	1:S:430:LYS:HE2	1.93	0.98
1:W:15:ILE:CD1	1:W:95:GLU:C	2.36	0.98
1:e:157:LYS:HA	1:e:285:LEU:HD12	1.42	0.98
1:C:369:PHE:HZ	1:C:410:LEU:CD1	1.75	0.98
1:E:371:ARG:HD2	1:E:389:ILE:HD13	1.45	0.98
1:G:357:LEU:CG	1:G:430:LYS:HE2	1.93	0.98
1:I:234:SER:CB	1:I:236:PRO:HD2	1.94	0.98
1:K:371:ARG:HB3	1:K:389:ILE:CG1	1.94	0.98
1:K:405:LEU:CD1	1:K:411:VAL:HG21	1.94	0.98
1:K:410:LEU:HD23	1:K:426:TYR:HD1	1.27	0.98
1:M:405:LEU:HB3	1:M:411:VAL:HG11	1.44	0.98
1:W:193:LEU:CD1	1:W:217:ILE:HG13	1.94	0.98
1:Y:357:LEU:CG	1:Y:430:LYS:HE2	1.93	0.98
1:c:405:LEU:HB3	1:c:411:VAL:HG11	1.44	0.98
2:d:82:ARG:HH11	2:d:82:ARG:HG3	1.28	0.98
1:e:405:LEU:CD1	1:e:411:VAL:HG21	1.94	0.98
1:C:234:SER:CB	1:C:236:PRO:HD2	1.94	0.97
1:I:357:LEU:CG	1:I:430:LYS:HE2	1.93	0.97
2:N:81:GLN:HA	2:N:81:GLN:HE21	1.28	0.97
2:P:81:GLN:HE21	2:P:81:GLN:HA	1.28	0.97
1:Q:73:VAL:O	1:Q:76:PHE:HB3	1.64	0.97
1:Q:234:SER:CB	1:Q:236:PRO:HD2	1.94	0.97
1:Q:241:LEU:HD21	1:Q:243:VAL:HG13	1.46	0.97
1:Y:73:VAL:O	1:Y:76:PHE:HB3	1.64	0.97

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:a:410:LEU:HD23	1:a:426:TYR:HD1	1.27	0.97
1:c:287:HIS:CG	1:c:288:HIS:CD2	2.52	0.97
1:e:178:ILE:HG21	1:e:241:LEU:HD22	1.41	0.97
1:e:371:ARG:HB3	1:e:389:ILE:CG1	1.94	0.97
1:e:460:PRO:CG	1:e:462:TYR:CE2	2.47	0.97
1:E:73:VAL:O	1:E:76:PHE:HB3	1.64	0.97
1:E:371:ARG:HB3	1:E:389:ILE:CG1	1.94	0.97
1:K:73:VAL:O	1:K:76:PHE:HB3	1.64	0.97
1:K:460:PRO:CG	1:K:462:TYR:CE2	2.47	0.97
1:M:287:HIS:CG	1:M:288:HIS:CD2	2.52	0.97
2:N:82:ARG:HG3	2:N:82:ARG:HH11	1.28	0.97
1:O:47:HIS:O	1:O:50:MET:HB2	1.63	0.97
1:O:118:GLN:HE22	1:Q:279:THR:CG2	1.74	0.97
1:Q:365:TYR:OH	1:Q:404:LYS:CG	2.12	0.97
1:W:234:SER:CB	1:W:236:PRO:HD2	1.94	0.97
1:Y:241:LEU:HD21	1:Y:243:VAL:HG13	1.46	0.97
1:c:405:LEU:CD1	1:c:411:VAL:HG21	1.94	0.97
1:e:47:HIS:O	1:e:50:MET:HB2	1.63	0.97
1:e:410:LEU:HD23	1:e:426:TYR:HD1	1.27	0.97
1:A:357:LEU:CG	1:A:430:LYS:HE2	1.93	0.97
1:A:410:LEU:HD23	1:A:426:TYR:HD1	1.27	0.97
1:C:138:LEU:HD23	1:C:170:VAL:HG13	1.42	0.97
1:C:241:LEU:HD21	1:C:243:VAL:HG13	1.46	0.97
1:E:460:PRO:CG	1:E:462:TYR:CE2	2.47	0.97
1:K:157:LYS:HA	1:K:285:LEU:HD12	1.42	0.97
1:M:405:LEU:CD1	1:M:411:VAL:HG21	1.94	0.97
1:O:157:LYS:HA	1:O:285:LEU:CD1	1.94	0.97
1:Q:203:ILE:HG23	1:Q:237:TYR:HH	1.18	0.97
1:U:73:VAL:O	1:U:76:PHE:HB3	1.64	0.97
1:U:371:ARG:HB3	1:U:389:ILE:CG1	1.94	0.97
1:U:460:PRO:CG	1:U:462:TYR:CE2	2.47	0.97
1:W:357:LEU:CG	1:W:430:LYS:HE2	1.93	0.97
1:Y:234:SER:CB	1:Y:236:PRO:HD2	1.94	0.97
1:a:157:LYS:HA	1:a:285:LEU:CD1	1.94	0.97
2:b:81:GLN:HA	2:b:81:GLN:HE21	1.28	0.97
1:c:19:PHE:HE2	1:c:92:ILE:HG12	1.22	0.97
1:A:287:HIS:CG	1:A:288:HIS:CD2	2.52	0.97
1:C:357:LEU:CG	1:C:430:LYS:HE2	1.93	0.97
1:I:287:HIS:CG	1:I:288:HIS:CD2	2.52	0.97
1:M:460:PRO:CG	1:M:462:TYR:CE2	2.47	0.97
1:O:73:VAL:O	1:O:76:PHE:HB3	1.64	0.97

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:R:81:GLN:HA	2:R:81:GLN:HE21	1.28	0.97
1:S:157:LYS:HA	1:S:285:LEU:CD1	1.94	0.97
1:W:241:LEU:HD21	1:W:243:VAL:HG13	1.46	0.97
1:Y:193:LEU:CD1	1:Y:217:ILE:HG13	1.94	0.97
1:Y:365:TYR:OH	1:Y:404:LYS:CG	2.12	0.97
1:a:47:HIS:O	1:a:50:MET:HB2	1.63	0.97
1:a:73:VAL:O	1:a:76:PHE:HB3	1.64	0.97
1:c:460:PRO:CG	1:c:462:TYR:CE2	2.47	0.97
2:d:81:GLN:HE21	2:d:81:GLN:HA	1.28	0.97
1:e:73:VAL:O	1:e:76:PHE:HB3	1.64	0.97
1:A:193:LEU:CD1	1:A:217:ILE:HG13	1.94	0.97
1:E:369:PHE:HZ	1:E:410:LEU:HG	1.00	0.97
1:G:369:PHE:HZ	1:G:410:LEU:CD1	1.75	0.97
1:G:460:PRO:CG	1:G:462:TYR:CE2	2.47	0.97
2:J:62:MET:HA	2:J:62:MET:CE	1.92	0.97
1:K:47:HIS:O	1:K:50:MET:HB2	1.63	0.97
1:K:157:LYS:HA	1:K:285:LEU:CD1	1.94	0.97
1:M:19:PHE:HE2	1:M:92:ILE:HG12	1.22	0.97
1:O:241:LEU:HD21	1:O:243:VAL:HG13	1.46	0.97
1:O:371:ARG:HB3	1:O:389:ILE:CG1	1.94	0.97
2:P:62:MET:HA	2:P:62:MET:CE	1.92	0.97
1:Q:193:LEU:CD1	1:Q:217:ILE:HG13	1.94	0.97
1:W:73:VAL:O	1:W:76:PHE:HB3	1.64	0.97
1:W:138:LEU:HD23	1:W:170:VAL:HG13	1.42	0.97
2:Z:81:GLN:HA	2:Z:81:GLN:HE21	1.28	0.97
1:a:371:ARG:HB3	1:a:389:ILE:CG1	1.94	0.97
1:A:48:ILE:HD13	1:A:61:LEU:HA	1.45	0.97
1:A:203:ILE:HG23	1:A:237:TYR:HH	1.22	0.97
1:A:405:LEU:CD1	1:A:411:VAL:HG21	1.94	0.97
1:C:542:ILE:HB	1:C:573:ILE:HD12	1.46	0.97
1:G:118:GLN:HE22	1:I:279:THR:CG2	1.74	0.97
1:G:157:LYS:HA	1:G:285:LEU:CD1	1.94	0.97
1:G:235:LYS:HE2	1:G:238:GLU:HG3	1.47	0.97
1:I:405:LEU:CD1	1:I:411:VAL:HG21	1.94	0.97
1:K:365:TYR:OH	1:K:404:LYS:CG	2.12	0.97
1:M:193:LEU:CD1	1:M:217:ILE:HG13	1.94	0.97
1:O:234:SER:CB	1:O:236:PRO:HD2	1.94	0.97
1:W:542:ILE:HB	1:W:573:ILE:HD12	1.46	0.97
1:Y:19:PHE:HZ	1:Y:92:ILE:CD1	1.73	0.97
1:a:241:LEU:HD21	1:a:243:VAL:HG13	1.46	0.97
1:A:73:VAL:O	1:A:76:PHE:HB3	1.64	0.97

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:73:VAL:O	1:C:76:PHE:HB3	1.64	0.97
1:I:48:ILE:HD13	1:I:61:LEU:HA	1.45	0.97
1:I:193:LEU:CD1	1:I:217:ILE:HG13	1.94	0.97
1:I:235:LYS:HE2	1:I:238:GLU:HG3	1.47	0.97
1:M:229:ARG:O	1:M:233:LYS:CD	2.13	0.97
1:Q:229:ARG:O	1:Q:233:LYS:CD	2.13	0.97
1:S:258:LEU:O	1:S:259:SER:OG	1.82	0.97
1:S:369:PHE:HZ	1:S:410:LEU:CD1	1.75	0.97
1:S:460:PRO:CG	1:S:462:TYR:CE2	2.47	0.97
1:a:234:SER:CB	1:a:236:PRO:HD2	1.94	0.97
1:a:405:LEU:HB3	1:a:411:VAL:HG11	1.44	0.97
1:c:229:ARG:O	1:c:233:LYS:CD	2.13	0.97
1:e:157:LYS:HA	1:e:285:LEU:CD1	1.94	0.97
1:e:234:SER:CB	1:e:236:PRO:HD2	1.94	0.97
1:A:235:LYS:HE2	1:A:238:GLU:HG3	1.47	0.97
1:A:518:LEU:CG	1:A:646:UNK:O	2.13	0.97
2:B:62:MET:HA	2:B:62:MET:CE	1.92	0.97
1:E:47:HIS:O	1:E:50:MET:HB2	1.63	0.97
1:I:518:LEU:CG	1:I:646:UNK:O	2.13	0.97
1:K:138:LEU:HD23	1:K:170:VAL:HG13	1.42	0.97
1:K:234:SER:CB	1:K:236:PRO:HD2	1.94	0.97
1:O:405:LEU:HB3	1:O:411:VAL:HG11	1.44	0.97
1:O:518:LEU:CG	1:O:646:UNK:O	2.13	0.97
1:Q:15:ILE:CD1	1:Q:95:GLU:C	2.36	0.97
1:S:235:LYS:HE2	1:S:238:GLU:HG3	1.47	0.97
1:W:157:LYS:HA	1:W:285:LEU:HD12	1.42	0.97
1:Y:229:ARG:O	1:Y:233:LYS:CD	2.13	0.97
1:a:19:PHE:HZ	1:a:92:ILE:CD1	1.73	0.97
2:b:62:MET:HA	2:b:62:MET:CE	1.92	0.97
1:c:193:LEU:CD1	1:c:217:ILE:HG13	1.94	0.97
1:c:371:ARG:HB3	1:c:389:ILE:CG1	1.94	0.97
1:e:365:TYR:OH	1:e:404:LYS:CG	2.12	0.97
1:A:279:THR:CG2	1:S:118:GLN:HE22	1.74	0.97
1:E:357:LEU:CG	1:E:430:LYS:HE2	1.93	0.97
1:G:192:VAL:HB	1:G:221:ILE:HD11	0.97	0.97
1:G:258:LEU:O	1:G:259:SER:OG	1.82	0.97
1:I:73:VAL:O	1:I:76:PHE:HB3	1.64	0.97
1:K:518:LEU:CG	1:K:646:UNK:O	2.13	0.97
1:M:258:LEU:O	1:M:259:SER:OG	1.82	0.97
1:M:518:LEU:CG	1:M:646:UNK:O	2.13	0.97
1:O:542:ILE:HB	1:O:573:ILE:HD12	1.46	0.97

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:S:192:VAL:HB	1:S:221:ILE:HD11	0.97	0.97
1:S:365:TYR:OH	1:S:404:LYS:CG	2.12	0.97
1:Y:15:ILE:CD1	1:Y:95:GLU:C	2.36	0.97
1:a:518:LEU:CG	1:a:646:UNK:O	2.13	0.97
1:c:157:LYS:HA	1:c:285:LEU:CD1	1.94	0.97
1:e:518:LEU:CG	1:e:646:UNK:O	2.13	0.97
2:B:81:GLN:HA	2:B:81:GLN:HE21	1.28	0.97
1:E:235:LYS:HE2	1:E:238:GLU:HG3	1.47	0.97
1:G:518:LEU:CG	1:G:646:UNK:O	2.13	0.97
1:I:118:GLN:HE22	1:K:279:THR:CG2	1.74	0.97
1:M:371:ARG:HB3	1:M:389:ILE:CG1	1.94	0.97
1:Q:157:LYS:HA	1:Q:285:LEU:CD1	1.94	0.97
1:Q:192:VAL:HB	1:Q:221:ILE:HD11	0.97	0.97
1:Q:405:LEU:CD1	1:Q:411:VAL:HG21	1.94	0.97
1:S:518:LEU:CG	1:S:646:UNK:O	2.13	0.97
1:U:235:LYS:HE2	1:U:238:GLU:HG3	1.47	0.97
1:W:235:LYS:HE2	1:W:238:GLU:HG3	1.47	0.97
1:Y:192:VAL:HB	1:Y:221:ILE:HD11	0.97	0.97
1:a:287:HIS:CG	1:a:288:HIS:CD2	2.52	0.97
1:a:542:ILE:HB	1:a:573:ILE:HD12	1.46	0.97
1:c:518:LEU:CG	1:c:646:UNK:O	2.13	0.97
1:e:327:ILE:HD13	1:e:341:TRP:HZ3	1.21	0.97
1:A:460:PRO:CG	1:A:462:TYR:CE2	2.47	0.96
2:B:82:ARG:HG3	2:B:82:ARG:HH11	1.28	0.96
1:C:405:LEU:CD1	1:C:411:VAL:HG21	1.94	0.96
1:E:229:ARG:O	1:E:233:LYS:CD	2.13	0.96
1:E:241:LEU:HD21	1:E:243:VAL:HG13	1.46	0.96
1:E:258:LEU:O	1:E:259:SER:OG	1.82	0.96
1:G:365:TYR:OH	1:G:404:LYS:CG	2.12	0.96
2:J:82:ARG:HG3	2:J:82:ARG:HH11	1.28	0.96
1:M:157:LYS:HA	1:M:285:LEU:CD1	1.94	0.96
1:M:192:VAL:HB	1:M:221:ILE:HD11	0.97	0.96
1:O:258:LEU:O	1:O:259:SER:OG	1.82	0.96
1:Q:19:PHE:HZ	1:Q:92:ILE:CD1	1.73	0.96
1:Q:36:PRO:O	1:Q:39:ILE:CG2	2.13	0.96
1:Q:357:LEU:HD12	1:Q:430:LYS:HZ1	0.81	0.96
1:U:47:HIS:O	1:U:50:MET:HB2	1.63	0.96
1:U:229:ARG:O	1:U:233:LYS:CD	2.13	0.96
1:U:241:LEU:HD21	1:U:243:VAL:HG13	1.46	0.96
1:U:258:LEU:O	1:U:259:SER:OG	1.82	0.96
1:U:357:LEU:CG	1:U:430:LYS:HE2	1.93	0.96

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:W:229:ARG:O	1:W:233:LYS:CD	2.13	0.96
1:W:371:ARG:HB3	1:W:389:ILE:CG1	1.94	0.96
1:Y:36:PRO:O	1:Y:39:ILE:CG2	2.13	0.96
1:Y:138:LEU:HD23	1:Y:170:VAL:HG13	1.42	0.96
1:c:258:LEU:O	1:c:259:SER:OG	1.82	0.96
1:A:192:VAL:HB	1:A:221:ILE:HD11	0.97	0.96
1:A:258:LEU:O	1:A:259:SER:OG	1.82	0.96
1:A:371:ARG:HD2	1:A:389:ILE:HD13	1.45	0.96
1:C:229:ARG:O	1:C:233:LYS:CD	2.13	0.96
1:C:235:LYS:HE2	1:C:238:GLU:HG3	1.47	0.96
1:C:371:ARG:HB3	1:C:389:ILE:CG1	1.94	0.96
1:I:192:VAL:HB	1:I:221:ILE:HD11	0.97	0.96
1:K:327:ILE:HD13	1:K:341:TRP:HZ3	1.21	0.96
1:M:138:LEU:HD23	1:M:170:VAL:HG13	1.42	0.96
1:O:287:HIS:CG	1:O:288:HIS:CD2	2.52	0.96
1:S:371:ARG:HB3	1:S:389:ILE:CG1	1.94	0.96
1:W:36:PRO:O	1:W:39:ILE:CG2	2.13	0.96
1:W:405:LEU:CD1	1:W:411:VAL:HG21	1.94	0.96
1:Y:157:LYS:HA	1:Y:285:LEU:CD1	1.94	0.96
1:Y:405:LEU:CD1	1:Y:411:VAL:HG21	1.94	0.96
1:a:258:LEU:O	1:a:259:SER:OG	1.82	0.96
1:a:405:LEU:CD1	1:a:411:VAL:HG21	1.94	0.96
1:c:192:VAL:HB	1:c:221:ILE:HD11	0.97	0.96
1:e:229:ARG:O	1:e:233:LYS:CD	2.13	0.96
1:C:36:PRO:O	1:C:39:ILE:CG2	2.13	0.96
1:C:157:LYS:HA	1:C:285:LEU:HD12	1.42	0.96
1:C:371:ARG:HD2	1:C:389:ILE:HD13	1.45	0.96
1:I:203:ILE:HG23	1:I:237:TYR:HH	1.22	0.96
1:I:371:ARG:HD2	1:I:389:ILE:HD13	1.45	0.96
1:I:460:PRO:CG	1:I:462:TYR:CE2	2.47	0.96
2:J:81:GLN:HA	2:J:81:GLN:HE21	1.28	0.96
1:K:229:ARG:O	1:K:233:LYS:CD	2.13	0.96
1:e:138:LEU:HD23	1:e:170:VAL:HG13	1.42	0.96
1:G:19:PHE:HE2	1:G:92:ILE:HG12	1.22	0.96
1:G:371:ARG:HB3	1:G:389:ILE:CG1	1.94	0.96
1:G:405:LEU:CD1	1:G:411:VAL:HG21	1.94	0.96
1:I:118:GLN:HE22	1:K:279:THR:HG21	0.88	0.96
1:O:48:ILE:HD13	1:O:61:LEU:HA	1.45	0.96
1:O:405:LEU:CD1	1:O:411:VAL:HG21	1.94	0.96
1:Q:138:LEU:HD23	1:Q:170:VAL:HG13	1.42	0.96
1:S:405:LEU:CD1	1:S:411:VAL:HG21	1.94	0.96

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:U:192:VAL:HB	1:U:221:ILE:HD11	0.97	0.96
1:c:138:LEU:HD23	1:c:170:VAL:HG13	1.42	0.96
1:c:234:SER:CB	1:c:236:PRO:HD2	1.94	0.96
1:C:287:HIS:CG	1:C:288:HIS:CD2	2.52	0.96
1:E:405:LEU:CD1	1:E:411:VAL:HG21	1.94	0.96
1:G:410:LEU:HD23	1:G:426:TYR:HD1	1.27	0.96
1:I:258:LEU:O	1:I:259:SER:OG	1.82	0.96
1:K:258:LEU:O	1:K:259:SER:OG	1.82	0.96
2:L:81:GLN:HE21	2:L:81:GLN:HA	1.28	0.96
2:P:22:LEU:HD11	2:P:77:LEU:HD13	1.48	0.96
1:W:371:ARG:HD2	1:W:389:ILE:HD13	1.45	0.96
1:a:48:ILE:HD13	1:a:61:LEU:HA	1.45	0.96
1:e:192:VAL:HB	1:e:221:ILE:HD11	0.97	0.96
1:A:365:TYR:OH	1:A:404:LYS:CG	2.12	0.96
1:E:192:VAL:HB	1:E:221:ILE:HD11	0.97	0.96
1:K:192:VAL:HB	1:K:221:ILE:HD11	0.97	0.96
1:M:234:SER:CB	1:M:236:PRO:HD2	1.94	0.96
1:O:19:PHE:HZ	1:O:92:ILE:CD1	1.73	0.96
1:Q:422:ILE:HB	1:Q:427:LEU:CD1	1.96	0.96
1:Q:460:PRO:CG	1:Q:462:TYR:CE2	2.47	0.96
1:Q:518:LEU:CG	1:Q:646:UNK:O	2.13	0.96
1:U:405:LEU:CD1	1:U:411:VAL:HG21	1.94	0.96
1:Y:460:PRO:CG	1:Y:462:TYR:CE2	2.47	0.96
2:b:22:LEU:HD11	2:b:77:LEU:HD13	1.48	0.96
2:f:62:MET:HA	2:f:62:MET:CE	1.92	0.96
1:C:376:PRO:HB2	1:C:379:ALA:HB2	1.46	0.96
1:O:36:PRO:O	1:O:39:ILE:CG2	2.13	0.96
1:S:287:HIS:CG	1:S:288:HIS:CD2	2.52	0.96
1:W:287:HIS:CG	1:W:288:HIS:CD2	2.52	0.96
1:W:376:PRO:HB2	1:W:379:ALA:HB2	1.46	0.96
1:Y:422:ILE:HB	1:Y:427:LEU:CD1	1.96	0.96
1:Y:518:LEU:CG	1:Y:646:UNK:O	2.13	0.96
2:Z:22:LEU:HD11	2:Z:77:LEU:HD13	1.48	0.96
1:a:229:ARG:O	1:a:233:LYS:CD	2.13	0.96
1:C:258:LEU:O	1:C:259:SER:OG	1.82	0.96
1:E:422:ILE:HB	1:E:427:LEU:CD1	1.96	0.96
1:G:287:HIS:CG	1:G:288:HIS:CD2	2.52	0.96
1:G:371:ARG:HD2	1:G:389:ILE:HD13	1.45	0.96
1:I:365:TYR:OH	1:I:404:LYS:CG	2.12	0.96
2:L:62:MET:HA	2:L:62:MET:CE	1.92	0.96
1:Q:235:LYS:HE2	1:Q:238:GLU:HG3	1.47	0.96

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:U:422:ILE:HB	1:U:427:LEU:CD1	1.96	0.96
1:Y:235:LYS:HE2	1:Y:238:GLU:HG3	1.47	0.96
1:a:36:PRO:O	1:a:39:ILE:CG2	2.13	0.96
1:e:258:LEU:O	1:e:259:SER:OG	1.82	0.96
1:A:118:GLN:HE22	1:e:279:THR:HG21	0.88	0.96
1:A:542:ILE:HB	1:A:573:ILE:HD12	1.46	0.96
1:C:227:GLU:OE2	1:C:230:ARG:CZ	2.14	0.96
2:D:77:LEU:O	2:D:80:THR:HG23	1.66	0.96
1:E:19:PHE:HZ	1:E:92:ILE:CD1	1.73	0.96
1:M:133:LYS:HB3	1:M:283:ILE:CD1	1.96	0.96
1:O:229:ARG:O	1:O:233:LYS:CD	2.13	0.96
2:R:22:LEU:HD11	2:R:77:LEU:HD13	1.48	0.96
1:S:410:LEU:HD23	1:S:426:TYR:HD1	1.27	0.96
1:U:36:PRO:O	1:U:39:ILE:CG2	2.13	0.96
1:U:518:LEU:CG	1:U:646:UNK:O	2.13	0.96
1:W:227:GLU:OE2	1:W:230:ARG:CZ	2.14	0.96
1:W:258:LEU:O	1:W:259:SER:OG	1.82	0.96
2:X:77:LEU:O	2:X:80:THR:HG23	1.66	0.96
1:Y:258:LEU:O	1:Y:259:SER:OG	1.82	0.96
2:f:81:GLN:HA	2:f:81:GLN:HE21	1.28	0.96
1:C:192:VAL:HB	1:C:221:ILE:HD11	0.97	0.96
1:E:518:LEU:CG	1:E:646:UNK:O	2.13	0.96
1:G:422:ILE:CG2	1:G:423:PRO:CD	2.44	0.96
1:K:376:PRO:HB2	1:K:379:ALA:HB2	1.46	0.96
1:M:241:LEU:HD21	1:M:243:VAL:HG13	1.46	0.96
1:O:422:ILE:CG2	1:O:423:PRO:CD	2.44	0.96
1:Q:258:LEU:O	1:Q:259:SER:OG	1.82	0.96
1:Q:371:ARG:HB3	1:Q:389:ILE:CG1	1.94	0.96
1:Y:422:ILE:CG2	1:Y:423:PRO:CD	2.44	0.96
2:Z:82:ARG:HG3	2:Z:82:ARG:HH11	1.28	0.96
1:a:422:ILE:CG2	1:a:423:PRO:CD	2.44	0.96
1:a:460:PRO:CG	1:a:462:TYR:CE2	2.47	0.96
1:c:133:LYS:HB3	1:c:283:ILE:CD1	1.96	0.96
1:A:227:GLU:OE2	1:A:230:ARG:CZ	2.14	0.95
1:C:218:LYS:O	1:C:221:ILE:HG22	0.78	0.95
1:G:19:PHE:HZ	1:G:92:ILE:CD1	1.73	0.95
1:G:227:GLU:OE2	1:G:230:ARG:CZ	2.14	0.95
1:G:229:ARG:O	1:G:233:LYS:CD	2.13	0.95
1:I:542:ILE:HB	1:I:573:ILE:HD12	1.46	0.95
2:L:77:LEU:O	2:L:80:THR:HG23	1.66	0.95
1:O:133:LYS:HB3	1:O:283:ILE:CD1	1.96	0.95

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Q:422:ILE:CG2	1:Q:423:PRO:CD	2.44	0.95
1:S:227:GLU:OE2	1:S:230:ARG:CZ	2.14	0.95
1:S:371:ARG:HD2	1:S:389:ILE:HD13	1.45	0.95
1:S:422:ILE:CG2	1:S:423:PRO:CD	2.44	0.95
1:U:19:PHE:HZ	1:U:92:ILE:CD1	1.73	0.95
2:V:77:LEU:O	2:V:80:THR:HG23	1.66	0.95
1:W:218:LYS:O	1:W:221:ILE:HG22	0.78	0.95
1:Y:287:HIS:CG	1:Y:288:HIS:CD2	2.52	0.95
1:a:133:LYS:HB3	1:a:283:ILE:CD1	1.96	0.95
1:e:235:LYS:HE2	1:e:238:GLU:HG3	1.47	0.95
2:F:62:MET:HA	2:F:62:MET:CE	1.92	0.95
2:F:77:LEU:O	2:F:80:THR:HG23	1.66	0.95
1:G:36:PRO:O	1:G:39:ILE:CG2	2.13	0.95
1:G:422:ILE:HB	1:G:427:LEU:CD1	1.96	0.95
1:I:227:GLU:OE2	1:I:230:ARG:CZ	2.14	0.95
1:K:227:GLU:OE2	1:K:230:ARG:CZ	2.14	0.95
1:K:235:LYS:HE2	1:K:238:GLU:HG3	1.47	0.95
1:O:460:PRO:CG	1:O:462:TYR:CE2	2.47	0.95
1:Q:287:HIS:CG	1:Q:288:HIS:CD2	2.52	0.95
2:R:77:LEU:O	2:R:80:THR:HG23	1.66	0.95
1:S:19:PHE:HE2	1:S:92:ILE:HG12	1.22	0.95
1:W:192:VAL:HB	1:W:221:ILE:HD11	0.97	0.95
1:Y:227:GLU:OE2	1:Y:230:ARG:CZ	2.14	0.95
1:Y:371:ARG:HB3	1:Y:389:ILE:CG1	1.94	0.95
1:c:73:VAL:O	1:c:76:PHE:HB3	1.64	0.95
1:c:241:LEU:HD21	1:c:243:VAL:HG13	1.46	0.95
1:e:227:GLU:OE2	1:e:230:ARG:CZ	2.14	0.95
1:e:376:PRO:HB2	1:e:379:ALA:HB2	1.46	0.95
2:f:77:LEU:O	2:f:80:THR:HG23	1.66	0.95
1:G:532:ASP:O	1:G:536:GLU:OE1	1.84	0.95
1:O:532:ASP:O	1:O:536:GLU:OE1	1.84	0.95
1:Q:227:GLU:OE2	1:Q:230:ARG:CZ	2.14	0.95
2:R:82:ARG:HG3	2:R:82:ARG:HH11	1.28	0.95
1:S:229:ARG:O	1:S:233:LYS:CD	2.13	0.95
1:S:422:ILE:HB	1:S:427:LEU:CD1	1.96	0.95
1:S:532:ASP:O	1:S:536:GLU:OE1	1.84	0.95
2:Z:77:LEU:O	2:Z:80:THR:HG23	1.66	0.95
1:G:73:VAL:O	1:G:76:PHE:HB3	1.64	0.95
1:I:36:PRO:O	1:I:39:ILE:CG2	2.13	0.95
1:I:376:PRO:HB2	1:I:379:ALA:HB2	1.46	0.95
1:M:422:ILE:CG2	1:M:423:PRO:CD	2.44	0.95

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:O:218:LYS:O	1:O:221:ILE:HG22	0.78	0.95
1:S:36:PRO:O	1:S:39:ILE:CG2	2.13	0.95
1:a:218:LYS:O	1:a:221:ILE:HG22	0.78	0.95
1:a:422:ILE:HB	1:a:427:LEU:CD1	1.96	0.95
1:a:532:ASP:O	1:a:536:GLU:OE1	1.84	0.95
1:c:422:ILE:CG2	1:c:423:PRO:CD	2.44	0.95
1:e:48:ILE:HD13	1:e:61:LEU:HA	1.45	0.95
1:A:36:PRO:O	1:A:39:ILE:CG2	2.13	0.95
1:E:133:LYS:HB3	1:E:283:ILE:CD1	1.96	0.95
1:G:218:LYS:O	1:G:221:ILE:HG22	0.78	0.95
1:G:460:PRO:HG2	1:G:462:TYR:CD2	2.02	0.95
1:K:422:ILE:HB	1:K:427:LEU:CD1	1.96	0.95
1:M:73:VAL:O	1:M:76:PHE:HB3	1.64	0.95
1:M:376:PRO:HB2	1:M:379:ALA:HB2	1.46	0.95
1:S:460:PRO:HG2	1:S:462:TYR:CD2	2.02	0.95
1:U:133:LYS:HB3	1:U:283:ILE:CD1	1.96	0.95
1:U:218:LYS:O	1:U:221:ILE:HG22	0.78	0.95
1:W:460:PRO:CG	1:W:462:TYR:CE2	2.47	0.95
1:c:532:ASP:O	1:c:536:GLU:OE1	1.84	0.95
1:e:422:ILE:HB	1:e:427:LEU:CD1	1.96	0.95
1:A:376:PRO:HB2	1:A:379:ALA:HB2	1.46	0.95
2:D:22:LEU:HD11	2:D:77:LEU:HD13	1.48	0.95
1:E:218:LYS:O	1:E:221:ILE:HG22	0.78	0.95
1:K:48:ILE:HD13	1:K:61:LEU:HA	1.45	0.95
1:K:542:ILE:HB	1:K:573:ILE:HD12	1.46	0.95
1:M:36:PRO:O	1:M:39:ILE:CG2	2.13	0.95
1:M:532:ASP:O	1:M:536:GLU:OE1	1.84	0.95
1:O:371:ARG:HD2	1:O:389:ILE:HD13	1.45	0.95
1:O:422:ILE:HB	1:O:427:LEU:CD1	1.96	0.95
1:S:218:LYS:O	1:S:221:ILE:HG22	0.78	0.95
1:S:542:ILE:HB	1:S:573:ILE:HD12	1.46	0.95
2:T:77:LEU:O	2:T:80:THR:HG23	1.66	0.95
2:V:62:MET:HA	2:V:62:MET:CE	1.92	0.95
1:W:422:ILE:CG2	1:W:423:PRO:CD	2.44	0.95
1:c:36:PRO:O	1:c:39:ILE:CG2	2.13	0.95
1:c:376:PRO:HB2	1:c:379:ALA:HB2	1.46	0.95
1:C:422:ILE:CG2	1:C:423:PRO:CD	2.44	0.95
1:C:460:PRO:CG	1:C:462:TYR:CE2	2.47	0.95
1:E:460:PRO:HG2	1:E:462:TYR:CD2	2.02	0.95
1:G:542:ILE:HB	1:G:573:ILE:HD12	1.46	0.95
1:K:133:LYS:HB3	1:K:283:ILE:CD1	1.96	0.95

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:422:ILE:HB	1:M:427:LEU:CD1	1.96	0.95
1:S:73:VAL:O	1:S:76:PHE:HB3	1.64	0.95
2:T:82:ARG:HH11	2:T:82:ARG:HG3	1.27	0.95
1:U:287:HIS:CG	1:U:288:HIS:CD2	2.52	0.95
1:U:460:PRO:HG2	1:U:462:TYR:CD2	2.02	0.95
1:a:192:VAL:HB	1:a:221:ILE:HD11	0.97	0.95
1:A:229:ARG:O	1:A:233:LYS:CD	2.13	0.95
1:C:19:PHE:HZ	1:C:92:ILE:CD1	1.73	0.95
1:E:410:LEU:CA	1:E:423:PRO:HG3	1.96	0.95
2:H:58:LYS:N	2:H:59:PRO:HD2	1.82	0.95
2:H:77:LEU:O	2:H:80:THR:HG23	1.66	0.95
1:I:229:ARG:O	1:I:233:LYS:CD	2.13	0.95
1:K:36:PRO:O	1:K:39:ILE:CG2	2.13	0.95
1:M:410:LEU:CA	1:M:423:PRO:HG3	1.96	0.95
2:N:22:LEU:HD11	2:N:77:LEU:HD13	1.48	0.95
1:Q:532:ASP:O	1:Q:536:GLU:OE1	1.84	0.95
2:T:58:LYS:N	2:T:59:PRO:HD2	1.82	0.95
2:X:22:LEU:HD11	2:X:77:LEU:HD13	1.48	0.95
1:Y:532:ASP:O	1:Y:536:GLU:OE1	1.84	0.95
1:c:410:LEU:CA	1:c:423:PRO:HG3	1.96	0.95
1:c:422:ILE:HB	1:c:427:LEU:CD1	1.96	0.95
1:e:422:ILE:CG2	1:e:423:PRO:CD	2.44	0.95
1:e:542:ILE:HB	1:e:573:ILE:HD12	1.46	0.95
1:C:424:SER:CA	1:C:427:LEU:HB3	1.96	0.95
1:E:287:HIS:CG	1:E:288:HIS:CD2	2.52	0.95
1:K:422:ILE:CG2	1:K:423:PRO:CD	2.44	0.95
1:K:424:SER:CA	1:K:427:LEU:HB3	1.96	0.95
1:M:48:ILE:HD13	1:M:61:LEU:HA	1.45	0.95
2:P:77:LEU:O	2:P:80:THR:HG23	1.66	0.95
1:Q:371:ARG:HD2	1:Q:389:ILE:HD13	1.45	0.95
1:S:241:LEU:HD21	1:S:243:VAL:HG13	1.46	0.95
2:T:62:MET:HA	2:T:62:MET:CE	1.92	0.95
1:U:227:GLU:OE2	1:U:230:ARG:CZ	2.14	0.95
1:Y:218:LYS:O	1:Y:221:ILE:HG22	0.78	0.95
1:Y:371:ARG:HD2	1:Y:389:ILE:HD13	1.45	0.95
1:a:371:ARG:HD2	1:a:389:ILE:HD13	1.45	0.95
1:a:410:LEU:CA	1:a:423:PRO:HG3	1.96	0.95
1:e:36:PRO:O	1:e:39:ILE:CG2	2.13	0.95
1:e:133:LYS:HB3	1:e:283:ILE:CD1	1.96	0.95
1:e:424:SER:CA	1:e:427:LEU:HB3	1.96	0.95
1:A:460:PRO:HG2	1:A:462:TYR:CD2	2.02	0.95

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:36:PRO:O	1:E:39:ILE:CG2	2.13	0.95
1:E:227:GLU:OE2	1:E:230:ARG:CZ	2.14	0.95
1:G:241:LEU:HD21	1:G:243:VAL:HG13	1.46	0.95
2:H:62:MET:HA	2:H:62:MET:CE	1.92	0.95
1:I:422:ILE:CG2	1:I:423:PRO:CD	2.44	0.95
1:O:192:VAL:HB	1:O:221:ILE:HD11	0.97	0.95
1:O:410:LEU:CA	1:O:423:PRO:HG3	1.96	0.95
1:Q:218:LYS:O	1:Q:221:ILE:HG22	0.78	0.95
1:U:410:LEU:CA	1:U:423:PRO:HG3	1.96	0.95
1:W:424:SER:CA	1:W:427:LEU:HB3	1.96	0.95
1:Y:542:ILE:HB	1:Y:573:ILE:HD12	1.46	0.95
2:d:22:LEU:HD11	2:d:77:LEU:HD13	1.48	0.95
1:C:327:ILE:HD13	1:C:341:TRP:CE3	2.02	0.94
1:C:422:ILE:HB	1:C:427:LEU:CD1	1.96	0.94
1:E:424:SER:CA	1:E:427:LEU:HB3	1.96	0.94
1:M:365:TYR:HH	1:M:404:LYS:HG2	1.25	0.94
1:Q:424:SER:CA	1:Q:427:LEU:HB3	1.96	0.94
1:W:19:PHE:HZ	1:W:92:ILE:CD1	1.73	0.94
1:W:327:ILE:HD13	1:W:341:TRP:CE3	2.02	0.94
1:W:518:LEU:CG	1:W:646:UNK:O	2.13	0.94
1:Y:133:LYS:HB3	1:Y:283:ILE:CD1	1.96	0.94
2:b:77:LEU:O	2:b:80:THR:HG23	1.66	0.94
1:c:48:ILE:HD13	1:c:61:LEU:HA	1.45	0.94
1:A:218:LYS:O	1:A:221:ILE:HG22	0.78	0.94
1:A:422:ILE:CG2	1:A:423:PRO:CD	2.44	0.94
2:B:77:LEU:O	2:B:80:THR:HG23	1.66	0.94
1:C:518:LEU:CG	1:C:646:UNK:O	2.13	0.94
1:I:460:PRO:HG2	1:I:462:TYR:CD2	2.02	0.94
2:J:77:LEU:O	2:J:80:THR:HG23	1.66	0.94
1:K:218:LYS:O	1:K:221:ILE:HG22	0.78	0.94
1:M:327:ILE:HD13	1:M:341:TRP:CE3	2.02	0.94
1:M:460:PRO:HG2	1:M:462:TYR:CD2	2.02	0.94
2:N:77:LEU:O	2:N:80:THR:HG23	1.66	0.94
1:Q:41:SER:HB2	1:Q:44:GLU:HB2	0.95	0.94
1:Q:133:LYS:HB3	1:Q:283:ILE:CD1	1.96	0.94
1:Y:41:SER:HB2	1:Y:44:GLU:HB2	0.95	0.94
1:Y:424:SER:CA	1:Y:427:LEU:HB3	1.96	0.94
1:c:365:TYR:HH	1:c:404:LYS:HG2	1.25	0.94
1:e:218:LYS:O	1:e:221:ILE:HG22	0.78	0.94
1:C:460:PRO:HG2	1:C:462:TYR:CD2	2.02	0.94
1:I:218:LYS:O	1:I:221:ILE:HG22	0.78	0.94

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:L:82:ARG:HH11	2:L:82:ARG:HG3	1.27	0.94
1:O:235:LYS:HE2	1:O:238:GLU:HG3	1.47	0.94
1:U:424:SER:CA	1:U:427:LEU:HB3	1.96	0.94
1:W:422:ILE:HB	1:W:427:LEU:CD1	1.96	0.94
1:a:104:ARG:HA	1:a:107:ILE:HG22	1.49	0.94
1:c:327:ILE:HD13	1:c:341:TRP:CE3	2.02	0.94
1:A:422:ILE:HB	1:A:427:LEU:CD1	1.96	0.94
2:F:22:LEU:HD11	2:F:77:LEU:HD13	1.48	0.94
2:H:82:ARG:HH11	2:H:82:ARG:HG3	1.27	0.94
1:O:104:ARG:HA	1:O:107:ILE:HG22	1.49	0.94
1:O:460:PRO:HG2	1:O:462:TYR:CD2	2.02	0.94
1:Q:542:ILE:HB	1:Q:573:ILE:HD12	1.46	0.94
2:V:22:LEU:HD11	2:V:77:LEU:HD13	1.48	0.94
1:W:460:PRO:HG2	1:W:462:TYR:CD2	2.02	0.94
1:a:235:LYS:HE2	1:a:238:GLU:HG3	1.47	0.94
1:c:460:PRO:HG2	1:c:462:TYR:CD2	2.02	0.94
1:e:241:LEU:HD21	1:e:243:VAL:HG13	1.46	0.94
1:e:327:ILE:HD13	1:e:341:TRP:CE3	2.02	0.94
1:C:133:LYS:HB3	1:C:283:ILE:CD1	1.96	0.94
1:G:424:SER:CA	1:G:427:LEU:HB3	1.96	0.94
1:K:241:LEU:HD21	1:K:243:VAL:HG13	1.46	0.94
1:K:327:ILE:HD13	1:K:341:TRP:CE3	2.02	0.94
1:M:218:LYS:O	1:M:221:ILE:HG22	0.78	0.94
1:M:227:GLU:OE2	1:M:230:ARG:CZ	2.14	0.94
1:Q:460:PRO:HG2	1:Q:462:TYR:CD2	2.02	0.94
1:U:422:ILE:CG2	1:U:423:PRO:CD	2.44	0.94
1:c:218:LYS:O	1:c:221:ILE:HG22	0.78	0.94
2:d:77:LEU:O	2:d:80:THR:HG23	1.66	0.94
1:E:532:ASP:O	1:E:536:GLU:OE1	1.84	0.94
1:G:327:ILE:HD13	1:G:341:TRP:CE3	2.02	0.94
1:I:422:ILE:HB	1:I:427:LEU:CD1	1.96	0.94
1:M:327:ILE:HD13	1:M:341:TRP:HZ3	1.21	0.94
1:Q:104:ARG:HA	1:Q:107:ILE:HG22	1.49	0.94
1:S:327:ILE:HD13	1:S:341:TRP:CE3	2.02	0.94
1:S:424:SER:CA	1:S:427:LEU:HB3	1.96	0.94
1:W:133:LYS:HB3	1:W:283:ILE:CD1	1.96	0.94
1:Y:460:PRO:HG2	1:Y:462:TYR:CD2	2.02	0.94
1:a:460:PRO:HG2	1:a:462:TYR:CD2	2.02	0.94
2:f:82:ARG:HH11	2:f:82:ARG:HG3	1.27	0.94
1:E:41:SER:HB2	1:E:44:GLU:HB2	0.95	0.94
1:E:203:ILE:HG23	1:E:237:TYR:HH	1.16	0.94

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:422:ILE:CG2	1:E:423:PRO:CD	2.44	0.94
1:K:532:ASP:O	1:K:536:GLU:OE1	1.84	0.94
1:U:41:SER:HB2	1:U:44:GLU:HB2	0.95	0.94
2:Z:58:LYS:N	2:Z:59:PRO:HD2	1.82	0.94
1:a:227:GLU:OE2	1:a:230:ARG:CZ	2.14	0.94
1:c:227:GLU:OE2	1:c:230:ARG:CZ	2.14	0.94
2:f:22:LEU:HD11	2:f:77:LEU:HD13	1.48	0.94
1:A:133:LYS:HB3	1:A:283:ILE:CD1	1.96	0.94
1:C:19:PHE:HE2	1:C:92:ILE:HG12	1.22	0.94
1:C:171:GLN:NE2	1:C:178:ILE:HD11	1.82	0.94
1:I:133:LYS:HB3	1:I:283:ILE:CD1	1.96	0.94
1:K:171:GLN:NE2	1:K:178:ILE:HD11	1.82	0.94
2:L:22:LEU:HD11	2:L:77:LEU:HD13	1.48	0.94
1:O:227:GLU:OE2	1:O:230:ARG:CZ	2.14	0.94
1:O:376:PRO:HB2	1:O:379:ALA:HB2	1.46	0.94
2:R:58:LYS:N	2:R:59:PRO:HD2	1.82	0.94
1:S:376:PRO:HB2	1:S:379:ALA:HB2	1.46	0.94
1:U:532:ASP:O	1:U:536:GLU:OE1	1.84	0.94
1:W:171:GLN:NE2	1:W:178:ILE:HD11	1.82	0.94
1:Y:104:ARG:HA	1:Y:107:ILE:HG22	1.49	0.94
1:Y:119:VAL:O	1:Y:123:TYR:HB2	1.68	0.94
1:a:376:PRO:HB2	1:a:379:ALA:HB2	1.46	0.94
1:e:171:GLN:NE2	1:e:178:ILE:HD11	1.82	0.94
1:e:532:ASP:O	1:e:536:GLU:OE1	1.84	0.94
1:K:460:PRO:HG2	1:K:462:TYR:CD2	2.02	0.94
1:M:542:ILE:HB	1:M:573:ILE:HD12	1.46	0.94
1:O:424:SER:CA	1:O:427:LEU:HB3	1.96	0.94
1:Q:119:VAL:O	1:Q:123:TYR:HB2	1.68	0.94
1:U:104:ARG:HA	1:U:107:ILE:HG22	1.49	0.94
1:U:171:GLN:NE2	1:U:178:ILE:HD11	1.82	0.94
1:c:542:ILE:HB	1:c:573:ILE:HD12	1.46	0.94
1:A:171:GLN:NE2	1:A:178:ILE:HD11	1.82	0.94
1:A:424:SER:CA	1:A:427:LEU:HB3	1.96	0.94
1:E:104:ARG:HA	1:E:107:ILE:HG22	1.49	0.94
1:E:171:GLN:NE2	1:E:178:ILE:HD11	1.82	0.94
1:E:365:TYR:HH	1:E:404:LYS:HG2	1.32	0.94
1:G:133:LYS:HB3	1:G:283:ILE:CD1	1.96	0.94
1:G:376:PRO:HB2	1:G:379:ALA:HB2	1.46	0.94
1:I:424:SER:CA	1:I:427:LEU:HB3	1.96	0.94
1:K:119:VAL:O	1:K:123:TYR:HB2	1.68	0.94
1:U:203:ILE:HG23	1:U:237:TYR:HH	1.16	0.94

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:a:424:SER:CA	1:a:427:LEU:HB3	1.96	0.94
1:c:235:LYS:HE2	1:c:238:GLU:HG3	1.47	0.94
1:A:532:ASP:O	1:A:536:GLU:OE1	1.84	0.93
1:C:422:ILE:CG2	1:C:423:PRO:HD2	1.98	0.93
1:I:171:GLN:NE2	1:I:178:ILE:HD11	1.82	0.93
1:I:241:LEU:HD21	1:I:243:VAL:HG13	1.46	0.93
1:K:410:LEU:CA	1:K:423:PRO:HG3	1.96	0.93
1:M:41:SER:HB2	1:M:44:GLU:HB2	0.95	0.93
1:W:422:ILE:CG2	1:W:423:PRO:HD2	1.98	0.93
1:c:327:ILE:HD13	1:c:341:TRP:HZ3	1.21	0.93
1:e:119:VAL:O	1:e:123:TYR:HB2	1.68	0.93
1:A:86:LYS:CE	1:A:89:MET:CE	2.47	0.93
1:C:532:ASP:O	1:C:536:GLU:OE1	1.84	0.93
1:E:216:ASN:HB3	1:E:219:LEU:H	1.33	0.93
1:I:86:LYS:CE	1:I:89:MET:CE	2.47	0.93
1:K:19:PHE:HE2	1:K:92:ILE:HG12	1.22	0.93
1:K:104:ARG:HA	1:K:107:ILE:HG22	1.49	0.93
1:M:15:ILE:HD13	1:M:95:GLU:CB	1.98	0.93
1:M:235:LYS:HE2	1:M:238:GLU:HG3	1.47	0.93
1:M:247:VAL:O	1:M:266:THR:CG2	2.16	0.93
1:M:422:ILE:CG2	1:M:423:PRO:HD2	1.98	0.93
1:O:422:ILE:CG2	1:O:423:PRO:HD2	1.98	0.93
1:Q:171:GLN:NE2	1:Q:178:ILE:HD11	1.82	0.93
1:S:133:LYS:HB3	1:S:283:ILE:CD1	1.96	0.93
1:W:203:ILE:HG23	1:W:237:TYR:HH	1.27	0.93
1:W:532:ASP:O	1:W:536:GLU:OE1	1.84	0.93
1:Y:171:GLN:NE2	1:Y:178:ILE:HD11	1.82	0.93
1:c:41:SER:HB2	1:c:44:GLU:HB2	0.95	0.93
1:c:247:VAL:O	1:c:266:THR:CG2	2.16	0.93
1:c:422:ILE:CG2	1:c:423:PRO:HD2	1.98	0.93
1:e:410:LEU:CA	1:e:423:PRO:HG3	1.96	0.93
1:e:460:PRO:HG2	1:e:462:TYR:CD2	2.02	0.93
1:A:241:LEU:HD21	1:A:243:VAL:HG13	1.46	0.93
1:K:15:ILE:HD13	1:K:95:GLU:CB	1.98	0.93
1:Y:372:LEU:CD1	1:Y:422:ILE:CG1	2.47	0.93
1:a:422:ILE:CG2	1:a:423:PRO:HD2	1.98	0.93
1:c:15:ILE:HD13	1:c:95:GLU:CB	1.98	0.93
1:c:119:VAL:O	1:c:123:TYR:HB2	1.68	0.93
1:e:15:ILE:HD13	1:e:95:GLU:CB	1.98	0.93
1:e:104:ARG:HA	1:e:107:ILE:HG22	1.49	0.93
1:E:327:ILE:HD13	1:E:341:TRP:CE3	2.02	0.93

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:376:PRO:HB2	1:E:379:ALA:HB2	1.46	0.93
1:G:86:LYS:CE	1:G:89:MET:CE	2.47	0.93
1:I:327:ILE:HD13	1:I:341:TRP:CE3	2.02	0.93
1:I:532:ASP:O	1:I:536:GLU:OE1	1.84	0.93
1:K:247:VAL:O	1:K:266:THR:CG2	2.17	0.93
1:K:327:ILE:HG21	1:K:341:TRP:CE3	2.04	0.93
1:K:422:ILE:CB	1:K:427:LEU:HD12	1.99	0.93
1:M:119:VAL:O	1:M:123:TYR:HB2	1.68	0.93
1:M:171:GLN:NE2	1:M:178:ILE:HD11	1.82	0.93
2:N:58:LYS:N	2:N:59:PRO:HD2	1.82	0.93
1:O:119:VAL:O	1:O:123:TYR:HB2	1.68	0.93
1:Q:372:LEU:CD1	1:Q:422:ILE:CG1	2.47	0.93
1:S:86:LYS:CE	1:S:89:MET:CE	2.47	0.93
1:U:15:ILE:HD13	1:U:95:GLU:CB	1.98	0.93
1:c:327:ILE:HG21	1:c:341:TRP:CE3	2.04	0.93
2:d:58:LYS:N	2:d:59:PRO:HD2	1.82	0.93
1:e:247:VAL:O	1:e:266:THR:CG2	2.17	0.93
1:e:327:ILE:HG21	1:e:341:TRP:CE3	2.04	0.93
1:e:422:ILE:CB	1:e:427:LEU:HD12	1.99	0.93
1:A:119:VAL:O	1:A:123:TYR:HB2	1.68	0.93
1:E:15:ILE:HD13	1:E:95:GLU:CB	1.98	0.93
1:M:327:ILE:HG21	1:M:341:TRP:CE3	2.04	0.93
1:Q:327:ILE:HD13	1:Q:341:TRP:CE3	2.02	0.93
1:U:216:ASN:HB3	1:U:219:LEU:H	1.33	0.93
1:W:19:PHE:HE2	1:W:92:ILE:HG12	1.22	0.93
1:Y:327:ILE:HD13	1:Y:341:TRP:CE3	2.02	0.93
1:Y:327:ILE:HG21	1:Y:341:TRP:CE3	2.04	0.93
1:Y:376:PRO:HB2	1:Y:379:ALA:HB2	1.46	0.93
1:a:327:ILE:HG21	1:a:341:TRP:CE3	2.04	0.93
1:A:327:ILE:HD13	1:A:341:TRP:CE3	2.02	0.93
1:E:542:ILE:HB	1:E:573:ILE:HD12	1.46	0.93
1:G:119:VAL:O	1:G:123:TYR:HB2	1.68	0.93
2:H:22:LEU:HD11	2:H:77:LEU:HD13	1.48	0.93
1:O:327:ILE:HD13	1:O:341:TRP:CE3	2.02	0.93
1:O:327:ILE:HG21	1:O:341:TRP:CE3	2.04	0.93
1:Q:327:ILE:HG21	1:Q:341:TRP:CE3	2.04	0.93
2:T:22:LEU:HD11	2:T:77:LEU:HD13	1.48	0.93
1:U:327:ILE:HD13	1:U:341:TRP:CE3	2.02	0.93
1:U:542:ILE:HB	1:U:573:ILE:HD12	1.46	0.93
1:W:15:ILE:HD13	1:W:95:GLU:CB	1.98	0.93
1:Y:410:LEU:CA	1:Y:423:PRO:HG3	1.96	0.93

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:a:119:VAL:O	1:a:123:TYR:HB2	1.68	0.93
1:a:247:VAL:O	1:a:266:THR:CG2	2.17	0.93
1:a:327:ILE:HD13	1:a:341:TRP:CE3	2.02	0.93
1:c:171:GLN:NE2	1:c:178:ILE:HD11	1.82	0.93
2:B:22:LEU:HD11	2:B:77:LEU:HD13	1.48	0.93
1:C:15:ILE:HD13	1:C:95:GLU:CB	1.98	0.93
1:I:119:VAL:O	1:I:123:TYR:HB2	1.68	0.93
2:J:22:LEU:HD11	2:J:77:LEU:HD13	1.48	0.93
1:K:86:LYS:CE	1:K:89:MET:CE	2.47	0.93
1:M:371:ARG:HD2	1:M:389:ILE:HD13	1.45	0.93
1:M:424:SER:CA	1:M:427:LEU:HB3	1.96	0.93
1:S:119:VAL:O	1:S:123:TYR:HB2	1.68	0.93
1:U:376:PRO:HB2	1:U:379:ALA:HB2	1.46	0.93
2:V:58:LYS:N	2:V:59:PRO:HD2	1.82	0.93
1:W:104:ARG:HA	1:W:107:ILE:HG22	1.49	0.93
1:e:86:LYS:CE	1:e:89:MET:CE	2.47	0.93
1:E:422:ILE:CG2	1:E:423:PRO:HD2	1.98	0.93
1:O:247:VAL:O	1:O:266:THR:CG2	2.17	0.93
1:Q:410:LEU:CA	1:Q:423:PRO:HG3	1.96	0.93
1:U:119:VAL:O	1:U:123:TYR:HB2	1.68	0.93
1:Y:216:ASN:HB3	1:Y:219:LEU:H	1.33	0.93
1:A:327:ILE:HG21	1:A:341:TRP:CE3	2.04	0.93
1:A:410:LEU:C	1:A:423:PRO:CG	2.42	0.93
1:C:119:VAL:O	1:C:123:TYR:HB2	1.68	0.93
1:E:119:VAL:O	1:E:123:TYR:HB2	1.68	0.93
1:G:340:ASN:O	1:G:344:VAL:CB	2.17	0.93
1:I:327:ILE:HG21	1:I:341:TRP:CE3	2.04	0.93
1:O:15:ILE:HD13	1:O:95:GLU:CB	1.98	0.93
1:O:372:LEU:CD1	1:O:422:ILE:CG1	2.47	0.93
1:Q:216:ASN:HB3	1:Q:219:LEU:H	1.33	0.93
1:Q:376:PRO:HB2	1:Q:379:ALA:HB2	1.46	0.93
1:S:10:TYR:CD1	1:S:107:ILE:HD13	2.04	0.93
1:S:171:GLN:NE2	1:S:178:ILE:HD11	1.82	0.93
1:S:340:ASN:O	1:S:344:VAL:CB	2.17	0.93
1:U:422:ILE:CG2	1:U:423:PRO:HD2	1.98	0.93
1:W:340:ASN:O	1:W:344:VAL:CB	2.17	0.93
1:c:424:SER:CA	1:c:427:LEU:HB3	1.96	0.93
1:e:19:PHE:HE2	1:e:92:ILE:HG12	1.22	0.93
1:A:372:LEU:CD1	1:A:422:ILE:CG1	2.47	0.93
1:C:104:ARG:HA	1:C:107:ILE:HG22	1.49	0.93
1:C:327:ILE:HD13	1:C:341:TRP:HZ3	1.21	0.93

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:340:ASN:O	1:C:344:VAL:CB	2.17	0.93
1:E:372:LEU:CD1	1:E:422:ILE:CG1	2.47	0.93
2:F:58:LYS:N	2:F:59:PRO:HD2	1.82	0.93
1:G:10:TYR:CD1	1:G:107:ILE:HD13	2.04	0.93
1:G:171:GLN:NE2	1:G:178:ILE:HD11	1.82	0.93
1:I:372:LEU:CD1	1:I:422:ILE:CG1	2.47	0.93
1:W:327:ILE:HG21	1:W:341:TRP:CE3	2.04	0.93
1:a:15:ILE:HD13	1:a:95:GLU:CB	1.98	0.93
1:c:371:ARG:HD2	1:c:389:ILE:HD13	1.45	0.93
1:C:212:ASP:HB2	1:C:220:ARG:HH11	1.34	0.92
1:E:10:TYR:CD1	1:E:107:ILE:HD13	2.04	0.92
1:G:422:ILE:CB	1:G:427:LEU:HD12	1.99	0.92
1:I:340:ASN:O	1:I:344:VAL:CB	2.17	0.92
1:I:410:LEU:C	1:I:423:PRO:CG	2.42	0.92
1:O:19:PHE:HE2	1:O:92:ILE:HG12	1.22	0.92
2:P:58:LYS:N	2:P:59:PRO:HD2	1.82	0.92
1:S:216:ASN:HB3	1:S:219:LEU:H	1.33	0.92
1:U:10:TYR:CD1	1:U:107:ILE:HD13	2.04	0.92
1:U:372:LEU:CD1	1:U:422:ILE:CG1	2.47	0.92
1:W:119:VAL:O	1:W:123:TYR:HB2	1.68	0.92
1:W:212:ASP:HB2	1:W:220:ARG:HH11	1.34	0.92
1:a:372:LEU:CD1	1:a:422:ILE:CG1	2.47	0.92
2:b:58:LYS:N	2:b:59:PRO:HD2	1.82	0.92
1:A:340:ASN:O	1:A:344:VAL:CB	2.17	0.92
1:C:327:ILE:HG21	1:C:341:TRP:CE3	2.04	0.92
1:E:86:LYS:CE	1:E:89:MET:CE	2.47	0.92
1:E:327:ILE:HD13	1:E:341:TRP:HZ3	1.21	0.92
1:E:410:LEU:HD12	1:E:423:PRO:CD	1.99	0.92
1:G:104:ARG:HA	1:G:107:ILE:HG22	1.49	0.92
1:I:247:VAL:O	1:I:266:THR:CG2	2.16	0.92
1:S:104:ARG:HA	1:S:107:ILE:HG22	1.49	0.92
1:S:422:ILE:CB	1:S:427:LEU:HD12	1.99	0.92
1:U:86:LYS:CE	1:U:89:MET:CE	2.47	0.92
1:U:212:ASP:HB2	1:U:220:ARG:HH11	1.34	0.92
1:A:41:SER:HB2	1:A:44:GLU:HB2	0.95	0.92
1:A:104:ARG:HA	1:A:107:ILE:HG22	1.49	0.92
1:A:247:VAL:O	1:A:266:THR:CG2	2.16	0.92
1:C:41:SER:HB2	1:C:44:GLU:HB2	0.95	0.92
1:E:212:ASP:HB2	1:E:220:ARG:HH11	1.34	0.92
1:G:216:ASN:HB3	1:G:219:LEU:H	1.33	0.92
1:I:41:SER:HB2	1:I:44:GLU:HB2	0.95	0.92

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:104:ARG:HA	1:I:107:ILE:HG22	1.49	0.92
1:I:410:LEU:CA	1:I:423:PRO:HG3	1.96	0.92
1:M:422:ILE:CB	1:M:427:LEU:HD12	1.99	0.92
1:O:86:LYS:CE	1:O:89:MET:CE	2.47	0.92
1:U:340:ASN:O	1:U:344:VAL:CB	2.17	0.92
1:U:410:LEU:HD12	1:U:423:PRO:CD	1.99	0.92
1:a:86:LYS:CE	1:a:89:MET:CE	2.47	0.92
1:e:410:LEU:HD12	1:e:423:PRO:CD	1.99	0.92
1:C:86:LYS:CE	1:C:89:MET:CE	2.47	0.92
1:E:340:ASN:O	1:E:344:VAL:CB	2.17	0.92
1:K:340:ASN:O	1:K:344:VAL:CB	2.17	0.92
1:K:371:ARG:HD2	1:K:389:ILE:HD13	1.45	0.92
1:K:410:LEU:HD12	1:K:423:PRO:CD	1.99	0.92
1:M:104:ARG:HA	1:M:107:ILE:HG22	1.49	0.92
1:O:171:GLN:NE2	1:O:178:ILE:HD11	1.82	0.92
1:O:340:ASN:O	1:O:344:VAL:CB	2.17	0.92
1:W:86:LYS:CE	1:W:89:MET:CE	2.47	0.92
1:c:422:ILE:CB	1:c:427:LEU:HD12	1.99	0.92
2:f:58:LYS:N	2:f:59:PRO:HD2	1.82	0.92
1:G:15:ILE:HD13	1:G:95:GLU:CB	1.98	0.92
1:S:372:LEU:CD1	1:S:422:ILE:CG1	2.47	0.92
1:Y:15:ILE:HD13	1:Y:95:GLU:CB	1.98	0.92
1:a:171:GLN:NE2	1:a:178:ILE:HD11	1.82	0.92
1:a:340:ASN:O	1:a:344:VAL:CB	2.17	0.92
1:e:340:ASN:O	1:e:344:VAL:CB	2.17	0.92
1:A:15:ILE:HD13	1:A:95:GLU:CB	1.98	0.92
1:A:410:LEU:CA	1:A:423:PRO:HG3	1.96	0.92
1:A:422:ILE:CB	1:A:427:LEU:HD12	1.99	0.92
1:C:372:LEU:CD1	1:C:422:ILE:CG1	2.47	0.92
1:G:372:LEU:CD1	1:G:422:ILE:CG1	2.47	0.92
1:K:41:SER:HB2	1:K:44:GLU:HB2	0.95	0.92
2:L:58:LYS:N	2:L:59:PRO:HD2	1.82	0.92
1:M:86:LYS:CE	1:M:89:MET:CE	2.47	0.92
1:S:15:ILE:HD13	1:S:95:GLU:CB	1.98	0.92
1:W:41:SER:HB2	1:W:44:GLU:HB2	0.95	0.92
1:W:327:ILE:HD13	1:W:341:TRP:HZ3	1.21	0.92
1:W:410:LEU:HD12	1:W:423:PRO:CD	1.99	0.92
1:Y:247:VAL:O	1:Y:266:THR:CG2	2.16	0.92
1:c:86:LYS:CE	1:c:89:MET:CE	2.47	0.92
1:c:340:ASN:O	1:c:344:VAL:CB	2.17	0.92
1:A:10:TYR:CD1	1:A:107:ILE:HD13	2.04	0.92

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:327:ILE:HG21	1:G:341:TRP:CE3	2.04	0.92
1:I:15:ILE:HD13	1:I:95:GLU:CB	1.98	0.92
1:I:422:ILE:CB	1:I:427:LEU:HD12	1.99	0.92
1:Q:15:ILE:HD13	1:Q:95:GLU:CB	1.98	0.92
1:Q:86:LYS:CE	1:Q:89:MET:CE	2.47	0.92
1:U:422:ILE:CB	1:U:427:LEU:HD12	1.99	0.92
1:W:372:LEU:CD1	1:W:422:ILE:CG1	2.47	0.92
1:a:203:ILE:HG23	1:a:237:TYR:HH	1.26	0.92
1:c:104:ARG:HA	1:c:107:ILE:HG22	1.49	0.92
1:e:41:SER:HB2	1:e:44:GLU:HB2	0.95	0.92
1:e:371:ARG:HD2	1:e:389:ILE:HD13	1.45	0.92
1:C:410:LEU:HD12	1:C:423:PRO:CD	1.99	0.92
1:E:422:ILE:CB	1:E:427:LEU:HD12	1.99	0.92
1:I:10:TYR:CD1	1:I:107:ILE:HD13	2.04	0.92
1:M:340:ASN:O	1:M:344:VAL:CB	2.17	0.92
1:Q:247:VAL:O	1:Q:266:THR:CG2	2.16	0.92
1:S:327:ILE:HG21	1:S:341:TRP:CE3	2.04	0.92
1:U:327:ILE:HD13	1:U:341:TRP:HZ3	1.21	0.92
2:V:44:LEU:H	2:V:44:LEU:HD12	1.35	0.92
1:Y:86:LYS:CE	1:Y:89:MET:CE	2.47	0.92
1:a:19:PHE:HE2	1:a:92:ILE:HG12	1.22	0.92
1:a:327:ILE:HD13	1:a:341:TRP:HZ3	1.21	0.92
1:A:422:ILE:HG22	1:A:423:PRO:CD	1.77	0.92
1:C:10:TYR:CD1	1:C:107:ILE:HD13	2.04	0.92
1:O:10:TYR:CD1	1:O:107:ILE:HD13	2.04	0.92
1:Q:518:LEU:HD21	1:Q:646:UNK:CA	2.00	0.92
1:W:10:TYR:CD1	1:W:107:ILE:HD13	2.04	0.92
1:W:183:LEU:HD22	1:W:186:CYS:HG	1.12	0.92
1:Y:518:LEU:HD21	1:Y:646:UNK:CA	2.00	0.92
1:a:422:ILE:CB	1:a:427:LEU:HD12	1.99	0.92
2:b:44:LEU:HD12	2:b:44:LEU:H	1.35	0.92
2:F:44:LEU:H	2:F:44:LEU:HD12	1.35	0.92
1:O:203:ILE:HG23	1:O:237:TYR:HH	1.26	0.92
1:O:422:ILE:CB	1:O:427:LEU:HD12	1.99	0.92
1:Q:422:ILE:CB	1:Q:427:LEU:HD12	1.99	0.92
2:R:44:LEU:H	2:R:44:LEU:HD12	1.35	0.92
1:Y:422:ILE:CB	1:Y:427:LEU:HD12	1.99	0.92
1:A:538:LEU:HD21	1:A:572:ALA:H	1.35	0.91
1:M:88:LEU:C	1:M:91:PRO:CD	2.43	0.91
1:O:41:SER:HB2	1:O:44:GLU:HB2	0.95	0.91
1:W:410:LEU:C	1:W:423:PRO:CG	2.42	0.91

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:a:10:TYR:CD1	1:a:107:ILE:HD13	2.04	0.91
1:c:88:LEU:C	1:c:91:PRO:CD	2.43	0.91
1:C:203:ILE:HG23	1:C:237:TYR:HH	1.28	0.91
1:C:247:VAL:O	1:C:266:THR:CG2	2.17	0.91
1:E:357:LEU:CD1	1:E:366:ARG:NE	2.34	0.91
1:G:247:VAL:O	1:G:266:THR:CG2	2.17	0.91
1:I:538:LEU:HD21	1:I:572:ALA:H	1.35	0.91
1:K:372:LEU:CD1	1:K:422:ILE:CG1	2.47	0.91
1:M:174:MET:SD	1:M:241:LEU:CB	2.59	0.91
1:M:203:ILE:HG23	1:M:237:TYR:HH	1.23	0.91
2:P:44:LEU:H	2:P:44:LEU:HD12	1.35	0.91
1:S:212:ASP:HB2	1:S:220:ARG:HH11	1.34	0.91
1:U:327:ILE:HG21	1:U:341:TRP:CE3	2.04	0.91
1:U:357:LEU:CD1	1:U:366:ARG:NE	2.34	0.91
1:U:365:TYR:HH	1:U:404:LYS:HG2	1.35	0.91
1:C:410:LEU:C	1:C:423:PRO:CG	2.42	0.91
1:K:10:TYR:CD1	1:K:107:ILE:HD13	2.04	0.91
1:M:10:TYR:CD1	1:M:107:ILE:HD13	2.04	0.91
1:O:327:ILE:HD13	1:O:341:TRP:HZ3	1.21	0.91
1:Q:10:TYR:CD1	1:Q:107:ILE:HD13	2.04	0.91
1:S:247:VAL:O	1:S:266:THR:CG2	2.17	0.91
1:a:174:MET:SD	1:a:241:LEU:CB	2.59	0.91
1:c:174:MET:SD	1:c:241:LEU:CB	2.59	0.91
1:e:10:TYR:CD1	1:e:107:ILE:HD13	2.04	0.91
1:E:327:ILE:HG21	1:E:341:TRP:CE3	2.04	0.91
1:G:212:ASP:HB2	1:G:220:ARG:HH11	1.34	0.91
1:I:422:ILE:HG22	1:I:423:PRO:CD	1.77	0.91
1:K:174:MET:SD	1:K:241:LEU:CB	2.59	0.91
1:K:371:ARG:HD2	1:K:389:ILE:HD12	0.92	0.91
1:O:133:LYS:CB	1:O:283:ILE:HD11	2.01	0.91
1:O:174:MET:SD	1:O:241:LEU:CB	2.59	0.91
1:Q:151:GLY:CA	1:Q:286:ASP:OD2	2.19	0.91
1:U:247:VAL:O	1:U:266:THR:CG2	2.16	0.91
1:W:247:VAL:O	1:W:266:THR:CG2	2.17	0.91
1:Y:10:TYR:CD1	1:Y:107:ILE:HD13	2.04	0.91
2:Z:44:LEU:HD12	2:Z:44:LEU:H	1.35	0.91
1:e:371:ARG:HD2	1:e:389:ILE:HD12	0.92	0.91
1:e:372:LEU:CD1	1:e:422:ILE:CG1	2.47	0.91
2:B:58:LYS:N	2:B:59:PRO:HD2	1.82	0.91
1:C:151:GLY:CA	1:C:286:ASP:OD2	2.19	0.91
1:E:247:VAL:O	1:E:266:THR:CG2	2.16	0.91

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:174:MET:SD	1:G:241:LEU:CB	2.59	0.91
1:G:357:LEU:CD1	1:G:366:ARG:NE	2.34	0.91
1:I:174:MET:SD	1:I:241:LEU:CB	2.59	0.91
1:S:174:MET:SD	1:S:241:LEU:CB	2.59	0.91
1:U:518:LEU:HD21	1:U:646:UNK:CA	2.00	0.91
1:Y:151:GLY:CA	1:Y:286:ASP:OD2	2.19	0.91
1:a:41:SER:HB2	1:a:44:GLU:HB2	0.95	0.91
1:a:133:LYS:CB	1:a:283:ILE:HD11	2.01	0.91
1:c:10:TYR:CD1	1:c:107:ILE:HD13	2.04	0.91
1:c:372:LEU:CD1	1:c:422:ILE:CG1	2.47	0.91
2:d:44:LEU:H	2:d:44:LEU:HD12	1.35	0.91
1:A:174:MET:SD	1:A:241:LEU:CB	2.59	0.91
1:A:371:ARG:HD2	1:A:389:ILE:HD12	0.92	0.91
1:E:410:LEU:C	1:E:423:PRO:CG	2.42	0.91
1:E:518:LEU:HD21	1:E:646:UNK:CA	2.00	0.91
1:G:41:SER:HB2	1:G:44:GLU:HB2	0.95	0.91
1:G:327:ILE:HD13	1:G:341:TRP:HZ3	1.21	0.91
1:K:410:LEU:C	1:K:423:PRO:CG	2.42	0.91
1:O:151:GLY:CA	1:O:286:ASP:OD2	2.19	0.91
1:Q:174:MET:SD	1:Q:241:LEU:CB	2.59	0.91
1:Q:212:ASP:HB2	1:Q:220:ARG:HH11	1.34	0.91
1:S:357:LEU:CD1	1:S:366:ARG:NE	2.34	0.91
1:S:410:LEU:C	1:S:423:PRO:CG	2.42	0.91
1:U:410:LEU:C	1:U:423:PRO:CG	2.42	0.91
1:W:151:GLY:CA	1:W:286:ASP:OD2	2.19	0.91
1:W:371:ARG:HD2	1:W:389:ILE:HD12	0.92	0.91
1:Y:174:MET:SD	1:Y:241:LEU:CB	2.59	0.91
1:Y:340:ASN:O	1:Y:344:VAL:CB	2.17	0.91
1:c:86:LYS:HE2	1:c:89:MET:CE	2.01	0.91
1:e:174:MET:SD	1:e:241:LEU:CB	2.59	0.91
1:C:371:ARG:HD2	1:C:389:ILE:HD12	0.92	0.91
1:I:371:ARG:HD2	1:I:389:ILE:HD12	0.92	0.91
1:M:86:LYS:HE2	1:M:89:MET:CE	2.01	0.91
1:M:133:LYS:CB	1:M:283:ILE:HD11	2.01	0.91
1:M:372:LEU:CD1	1:M:422:ILE:CG1	2.47	0.91
2:N:44:LEU:H	2:N:44:LEU:HD12	1.35	0.91
1:Q:86:LYS:HE2	1:Q:89:MET:CE	2.01	0.91
1:Q:340:ASN:O	1:Q:344:VAL:CB	2.17	0.91
1:W:200:LEU:HD12	1:W:228:LEU:HD12	1.53	0.91
1:Y:212:ASP:HB2	1:Y:220:ARG:HH11	1.34	0.91
1:a:151:GLY:CA	1:a:286:ASP:OD2	2.19	0.91

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:c:203:ILE:HG23	1:c:237:TYR:HH	1.23	0.91
1:e:410:LEU:C	1:e:423:PRO:CG	2.42	0.91
1:C:200:LEU:HD12	1:C:228:LEU:HD12	1.53	0.91
1:G:157:LYS:HE3	3:G:2000:ADP:O1B	1.71	0.91
1:G:538:LEU:HD21	1:G:572:ALA:H	1.35	0.91
2:J:58:LYS:N	2:J:59:PRO:HD2	1.82	0.91
1:O:248:GLN:O	1:O:249:ASN:ND2	2.04	0.91
1:O:369:PHE:CZ	1:O:410:LEU:CD1	2.53	0.91
1:O:371:ARG:HD2	1:O:389:ILE:HD12	0.92	0.91
1:S:41:SER:HB2	1:S:44:GLU:HB2	0.95	0.91
1:S:157:LYS:HE3	3:S:2000:ADP:O3B	1.71	0.91
1:W:357:LEU:CD1	1:W:366:ARG:NE	2.34	0.91
1:Y:86:LYS:HE2	1:Y:89:MET:CE	2.01	0.91
1:a:248:GLN:O	1:a:249:ASN:ND2	2.04	0.91
1:a:369:PHE:CZ	1:a:410:LEU:CD1	2.53	0.91
1:a:371:ARG:HD2	1:a:389:ILE:HD12	0.92	0.91
1:a:538:LEU:HD21	1:a:572:ALA:H	1.35	0.91
1:c:133:LYS:CB	1:c:283:ILE:HD11	2.01	0.91
1:C:357:LEU:CD1	1:C:366:ARG:NE	2.34	0.91
1:G:248:GLN:O	1:G:249:ASN:ND2	2.04	0.91
1:G:410:LEU:C	1:G:423:PRO:CG	2.42	0.91
1:M:151:GLY:CA	1:M:286:ASP:OD2	2.19	0.91
1:O:538:LEU:HD21	1:O:572:ALA:H	1.35	0.91
1:S:248:GLN:O	1:S:249:ASN:ND2	2.04	0.91
1:Y:410:LEU:C	1:Y:423:PRO:CG	2.42	0.91
1:Y:538:LEU:HD21	1:Y:572:ALA:H	1.35	0.91
1:c:453:PHE:HD2	1:c:461:PRO:HG2	1.36	0.91
1:e:157:LYS:HE3	3:e:2000:ADP:O3B	1.71	0.91
1:e:216:ASN:HB3	1:e:219:LEU:H	1.33	0.91
1:C:518:LEU:HD21	1:C:646:UNK:CA	2.00	0.91
1:E:157:LYS:HE3	3:E:2000:ADP:O1B	1.71	0.91
2:H:44:LEU:H	2:H:44:LEU:HD12	1.35	0.91
1:K:86:LYS:HE2	1:K:89:MET:CE	2.01	0.91
1:K:157:LYS:HE3	3:K:2000:ADP:O1B	1.71	0.91
1:M:200:LEU:HD12	1:M:228:LEU:HD12	1.53	0.91
1:O:453:PHE:HD2	1:O:461:PRO:HG2	1.36	0.91
1:Q:133:LYS:CB	1:Q:283:ILE:HD11	2.01	0.91
1:Q:538:LEU:HD21	1:Q:572:ALA:H	1.35	0.91
1:U:174:MET:SD	1:U:241:LEU:CB	2.59	0.91
1:Y:133:LYS:CB	1:Y:283:ILE:HD11	2.01	0.91
1:c:357:LEU:HD12	1:c:430:LYS:HZ1	0.74	0.91

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:248:GLN:O	1:A:249:ASN:ND2	2.04	0.90
1:E:174:MET:SD	1:E:241:LEU:CB	2.59	0.90
1:I:248:GLN:O	1:I:249:ASN:ND2	2.04	0.90
1:M:453:PHE:HD2	1:M:461:PRO:HG2	1.36	0.90
1:Q:327:ILE:HD13	1:Q:341:TRP:HZ3	1.21	0.90
1:U:151:GLY:CA	1:U:286:ASP:OD2	2.19	0.90
1:U:157:LYS:HE3	3:U:2000:ADP:O3B	1.71	0.90
1:a:410:LEU:C	1:a:423:PRO:CG	2.42	0.90
1:c:151:GLY:CA	1:c:286:ASP:OD2	2.19	0.90
1:e:86:LYS:HE2	1:e:89:MET:CE	2.01	0.90
1:C:157:LYS:HE3	3:C:2000:ADP:O1B	1.71	0.90
1:C:248:GLN:O	1:C:249:ASN:ND2	2.04	0.90
1:E:151:GLY:CA	1:E:286:ASP:OD2	2.19	0.90
1:G:371:ARG:HD2	1:G:389:ILE:HD12	0.92	0.90
1:K:216:ASN:HB3	1:K:219:LEU:H	1.33	0.90
1:K:518:LEU:HD21	1:K:646:UNK:CA	2.00	0.90
2:L:44:LEU:H	2:L:44:LEU:HD12	1.35	0.90
1:O:157:LYS:HE3	3:O:2000:ADP:O1B	1.71	0.90
1:Q:248:GLN:O	1:Q:249:ASN:ND2	2.04	0.90
1:Q:410:LEU:C	1:Q:423:PRO:CG	2.42	0.90
1:S:327:ILE:HD13	1:S:341:TRP:HZ3	1.21	0.90
1:S:538:LEU:HD21	1:S:572:ALA:H	1.35	0.90
2:T:44:LEU:H	2:T:44:LEU:HD12	1.35	0.90
1:W:157:LYS:HE3	3:W:2000:ADP:O3B	1.71	0.90
1:W:248:GLN:O	1:W:249:ASN:ND2	2.04	0.90
1:W:518:LEU:HD21	1:W:646:UNK:CA	2.00	0.90
1:Y:248:GLN:O	1:Y:249:ASN:ND2	2.04	0.90
1:a:157:LYS:HE3	3:a:2000:ADP:O3B	1.71	0.90
1:a:200:LEU:HD12	1:a:228:LEU:HD12	1.53	0.90
1:c:200:LEU:HD12	1:c:228:LEU:HD12	1.53	0.90
1:e:369:PHE:CZ	1:e:410:LEU:CD1	2.53	0.90
1:e:453:PHE:HD2	1:e:461:PRO:HG2	1.36	0.90
2:f:44:LEU:HD12	2:f:44:LEU:H	1.35	0.90
1:A:86:LYS:HE2	1:A:89:MET:CE	2.01	0.90
1:C:369:PHE:CZ	1:C:410:LEU:CD1	2.53	0.90
1:G:86:LYS:HE2	1:G:89:MET:CE	2.01	0.90
1:G:518:LEU:HD21	1:G:646:UNK:CA	2.00	0.90
1:I:216:ASN:HB3	1:I:219:LEU:H	1.33	0.90
1:K:369:PHE:CZ	1:K:410:LEU:CD1	2.53	0.90
1:K:453:PHE:HD2	1:K:461:PRO:HG2	1.36	0.90
1:M:410:LEU:C	1:M:423:PRO:CG	2.42	0.90

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:518:LEU:HD21	1:M:646:UNK:CA	2.00	0.90
1:W:174:MET:SD	1:W:241:LEU:CB	2.59	0.90
1:W:216:ASN:HB3	1:W:219:LEU:H	1.33	0.90
1:a:453:PHE:HD2	1:a:461:PRO:HG2	1.36	0.90
1:e:518:LEU:HD21	1:e:646:UNK:CA	2.00	0.90
1:C:174:MET:SD	1:C:241:LEU:CB	2.59	0.90
1:C:410:LEU:CA	1:C:423:PRO:HG3	1.96	0.90
1:C:422:ILE:CB	1:C:427:LEU:HD12	1.99	0.90
1:E:371:ARG:HD2	1:E:389:ILE:HD12	0.92	0.90
1:I:86:LYS:HE2	1:I:89:MET:CE	2.01	0.90
2:J:44:LEU:H	2:J:44:LEU:HD12	1.35	0.90
1:K:192:VAL:CG1	1:K:221:ILE:HD11	2.02	0.90
1:M:248:GLN:O	1:M:249:ASN:ND2	2.04	0.90
1:M:372:LEU:HD12	1:M:422:ILE:HG13	1.54	0.90
1:O:200:LEU:HD12	1:O:228:LEU:HD12	1.53	0.90
1:Q:174:MET:SD	1:Q:241:LEU:HB2	2.12	0.90
1:Q:192:VAL:CG1	1:Q:221:ILE:HD11	2.02	0.90
1:S:86:LYS:HE2	1:S:89:MET:CE	2.01	0.90
1:S:518:LEU:HD21	1:S:646:UNK:CA	2.00	0.90
1:U:371:ARG:HD2	1:U:389:ILE:HD12	0.92	0.90
1:W:410:LEU:CA	1:W:423:PRO:HG3	1.96	0.90
1:a:518:LEU:HD21	1:a:646:UNK:CA	2.00	0.90
1:c:248:GLN:O	1:c:249:ASN:ND2	2.04	0.90
1:c:410:LEU:C	1:c:423:PRO:CG	2.42	0.90
1:c:518:LEU:HD21	1:c:646:UNK:CA	2.00	0.90
1:e:192:VAL:CG1	1:e:221:ILE:HD11	2.02	0.90
2:B:44:LEU:H	2:B:44:LEU:HD12	1.35	0.90
1:C:357:LEU:CG	1:C:430:LYS:HZ3	1.83	0.90
1:E:86:LYS:HE2	1:E:89:MET:CE	2.01	0.90
1:I:410:LEU:HD12	1:I:423:PRO:CD	1.99	0.90
1:K:88:LEU:C	1:K:91:PRO:CD	2.43	0.90
1:K:248:GLN:O	1:K:249:ASN:ND2	2.04	0.90
1:K:422:ILE:CG2	1:K:423:PRO:HD2	1.98	0.90
1:O:518:LEU:HD21	1:O:646:UNK:CA	2.00	0.90
1:S:371:ARG:HD2	1:S:389:ILE:HD12	0.92	0.90
1:U:86:LYS:HE2	1:U:89:MET:CE	2.01	0.90
1:U:174:MET:SD	1:U:241:LEU:HB2	2.12	0.90
1:W:365:TYR:HH	1:W:404:LYS:HG2	1.24	0.90
1:W:369:PHE:CZ	1:W:410:LEU:CD1	2.53	0.90
1:W:410:LEU:HD12	1:W:423:PRO:HD2	1.53	0.90
1:Y:174:MET:SD	1:Y:241:LEU:HB2	2.12	0.90

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Y:192:VAL:CG1	1:Y:221:ILE:HD11	2.02	0.90
1:a:274:PHE:HB3	1:a:275:LEU:HD13	1.54	0.90
1:c:372:LEU:HD12	1:c:422:ILE:HG13	1.54	0.90
1:e:88:LEU:C	1:e:91:PRO:CD	2.43	0.90
1:e:200:LEU:HD12	1:e:228:LEU:HD12	1.53	0.90
1:e:248:GLN:O	1:e:249:ASN:ND2	2.04	0.90
1:A:216:ASN:HB3	1:A:219:LEU:H	1.33	0.90
1:A:274:PHE:HB3	1:A:275:LEU:HD13	1.54	0.90
1:A:518:LEU:HD21	1:A:646:UNK:CA	2.00	0.90
1:C:216:ASN:HB3	1:C:219:LEU:H	1.33	0.90
1:C:410:LEU:HD12	1:C:423:PRO:HD2	1.53	0.90
1:E:174:MET:SD	1:E:241:LEU:HB2	2.12	0.90
1:E:248:GLN:O	1:E:249:ASN:ND2	2.04	0.90
1:G:174:MET:SD	1:G:241:LEU:HB2	2.12	0.90
1:G:410:LEU:HD12	1:G:423:PRO:CD	1.99	0.90
1:K:133:LYS:CB	1:K:283:ILE:HD11	2.01	0.90
1:K:151:GLY:CA	1:K:286:ASP:OD2	2.19	0.90
1:K:274:PHE:HB3	1:K:275:LEU:HD13	1.54	0.90
1:O:274:PHE:HB3	1:O:275:LEU:HD13	1.54	0.90
1:O:410:LEU:C	1:O:423:PRO:CG	2.42	0.90
1:S:151:GLY:CA	1:S:286:ASP:OD2	2.19	0.90
1:W:422:ILE:CB	1:W:427:LEU:HD12	1.99	0.90
1:Y:327:ILE:HD13	1:Y:341:TRP:HZ3	1.21	0.90
1:a:216:ASN:HB3	1:a:219:LEU:H	1.33	0.90
1:c:538:LEU:HD21	1:c:572:ALA:H	1.35	0.90
1:A:151:GLY:CA	1:A:286:ASP:OD2	2.19	0.90
2:D:44:LEU:H	2:D:44:LEU:HD12	1.35	0.90
1:G:151:GLY:CA	1:G:286:ASP:OD2	2.19	0.90
1:I:274:PHE:HB3	1:I:275:LEU:HD13	1.54	0.90
1:I:357:LEU:CD1	1:I:366:ARG:NE	2.34	0.90
1:K:200:LEU:HD12	1:K:228:LEU:HD12	1.53	0.90
1:M:174:MET:SD	1:M:241:LEU:HB2	2.12	0.90
1:S:174:MET:SD	1:S:241:LEU:HB2	2.12	0.90
1:S:200:LEU:HD12	1:S:228:LEU:HD12	1.53	0.90
1:U:192:VAL:CG1	1:U:221:ILE:HD11	2.02	0.90
1:U:248:GLN:O	1:U:249:ASN:ND2	2.04	0.90
1:W:149:ILE:CG2	1:W:283:ILE:HG21	2.00	0.90
1:c:174:MET:SD	1:c:241:LEU:HB2	2.12	0.90
1:e:133:LYS:CB	1:e:283:ILE:HD11	2.01	0.90
1:e:149:ILE:CG2	1:e:283:ILE:HG21	2.00	0.90
1:e:274:PHE:HB3	1:e:275:LEU:HD13	1.54	0.90

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:e:538:LEU:HD21	1:e:572:ALA:H	1.35	0.90
1:A:357:LEU:CD1	1:A:366:ARG:NE	2.34	0.90
1:A:410:LEU:HD12	1:A:423:PRO:CD	1.99	0.90
1:C:538:LEU:HD21	1:C:572:ALA:H	1.35	0.90
1:E:192:VAL:CG1	1:E:221:ILE:HD11	2.02	0.90
1:E:369:PHE:CZ	1:E:410:LEU:CD1	2.53	0.90
1:G:192:VAL:CG1	1:G:221:ILE:HD11	2.02	0.90
1:G:200:LEU:HD12	1:G:228:LEU:HD12	1.53	0.90
1:I:518:LEU:HD21	1:I:646:UNK:CA	2.00	0.90
1:M:538:LEU:HD21	1:M:572:ALA:H	1.35	0.90
1:Q:157:LYS:HE3	3:Q:2000:ADP:O1B	1.71	0.90
1:Q:200:LEU:HD12	1:Q:228:LEU:HD12	1.53	0.90
1:Q:274:PHE:HB3	1:Q:275:LEU:HD13	1.54	0.90
1:Q:371:ARG:HD2	1:Q:389:ILE:HD12	0.92	0.90
1:Q:410:LEU:HD12	1:Q:423:PRO:CD	1.99	0.90
1:S:410:LEU:HD12	1:S:423:PRO:CD	1.99	0.90
1:W:453:PHE:HD2	1:W:461:PRO:HG2	1.36	0.90
1:W:538:LEU:HD21	1:W:572:ALA:H	1.35	0.90
1:e:151:GLY:CA	1:e:286:ASP:OD2	2.19	0.90
1:C:149:ILE:CG2	1:C:283:ILE:HG21	2.00	0.90
1:C:453:PHE:HD2	1:C:461:PRO:HG2	1.36	0.90
1:E:149:ILE:CG2	1:E:283:ILE:HG21	2.00	0.90
1:I:151:GLY:CA	1:I:286:ASP:OD2	2.19	0.90
1:K:326:ILE:HG21	1:K:349:LEU:HD12	1.54	0.90
1:O:174:MET:SD	1:O:241:LEU:HB2	2.12	0.90
1:O:216:ASN:HB3	1:O:219:LEU:H	1.33	0.90
1:S:192:VAL:CG1	1:S:221:ILE:HD11	2.02	0.90
1:U:149:ILE:CG2	1:U:283:ILE:HG21	2.00	0.90
1:W:133:LYS:CB	1:W:283:ILE:HD11	2.01	0.90
1:W:357:LEU:HD12	1:W:430:LYS:HZ1	0.74	0.90
1:Y:274:PHE:HB3	1:Y:275:LEU:HD13	1.54	0.90
1:a:174:MET:SD	1:a:241:LEU:HB2	2.12	0.90
1:a:192:VAL:CG1	1:a:221:ILE:HD11	2.02	0.90
1:c:357:LEU:CD1	1:c:366:ARG:NE	2.34	0.90
1:e:326:ILE:HG21	1:e:349:LEU:HD12	1.54	0.90
1:A:104:ARG:HA	1:A:107:ILE:CG2	2.02	0.90
1:C:133:LYS:CB	1:C:283:ILE:HD11	2.01	0.90
1:C:365:TYR:HH	1:C:404:LYS:HG2	1.24	0.90
1:E:104:ARG:HA	1:E:107:ILE:CG2	2.02	0.90
1:E:361:GLU:O	1:E:365:TYR:HB2	1.72	0.90
1:I:104:ARG:HA	1:I:107:ILE:CG2	2.02	0.90

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:149:ILE:CG2	1:K:283:ILE:HG21	2.00	0.90
1:K:357:LEU:CD1	1:K:366:ARG:NE	2.34	0.90
1:K:538:LEU:HD21	1:K:572:ALA:H	1.35	0.90
1:M:369:PHE:CZ	1:M:410:LEU:CD1	2.53	0.90
1:O:192:VAL:CG1	1:O:221:ILE:HD11	2.02	0.90
1:O:410:LEU:HD12	1:O:423:PRO:CD	1.99	0.90
1:Q:357:LEU:CD1	1:Q:366:ARG:NE	2.34	0.90
1:Q:369:PHE:CZ	1:Q:410:LEU:CD1	2.53	0.90
1:U:104:ARG:HA	1:U:107:ILE:CG2	2.02	0.90
2:X:44:LEU:H	2:X:44:LEU:HD12	1.35	0.90
1:Y:157:LYS:HE3	3:Y:2000:ADP:O3B	1.71	0.90
1:Y:200:LEU:HD12	1:Y:228:LEU:HD12	1.53	0.90
1:Y:371:ARG:HD2	1:Y:389:ILE:HD12	0.92	0.90
1:a:86:LYS:HE2	1:a:89:MET:CE	2.01	0.90
1:e:357:LEU:CD1	1:e:366:ARG:NE	2.34	0.90
1:e:372:LEU:HD12	1:e:422:ILE:HG13	1.54	0.90
1:C:174:MET:SD	1:C:241:LEU:HB2	2.12	0.89
1:G:365:TYR:HH	1:G:404:LYS:HG2	1.36	0.89
1:I:200:LEU:HD12	1:I:228:LEU:HD12	1.53	0.89
1:M:157:LYS:HE3	3:M:2000:ADP:O1B	1.71	0.89
1:M:216:ASN:HB3	1:M:219:LEU:H	1.33	0.89
1:M:357:LEU:CD1	1:M:366:ARG:NE	2.34	0.89
1:U:88:LEU:C	1:U:91:PRO:CD	2.43	0.89
1:U:361:GLU:O	1:U:365:TYR:HB2	1.72	0.89
1:U:369:PHE:CZ	1:U:410:LEU:CD1	2.53	0.89
1:Y:326:ILE:HG21	1:Y:349:LEU:HD12	1.54	0.89
1:Y:357:LEU:CD1	1:Y:366:ARG:NE	2.34	0.89
1:Y:369:PHE:CZ	1:Y:410:LEU:CD1	2.53	0.89
1:a:104:ARG:HA	1:a:107:ILE:CG2	2.02	0.89
1:a:410:LEU:HD12	1:a:423:PRO:CD	1.99	0.89
1:C:326:ILE:HG21	1:C:349:LEU:HD12	1.54	0.89
1:E:88:LEU:C	1:E:91:PRO:CD	2.43	0.89
1:E:200:LEU:HD12	1:E:228:LEU:HD12	1.53	0.89
1:G:372:LEU:HD12	1:G:422:ILE:HG13	1.54	0.89
1:K:372:LEU:HD12	1:K:422:ILE:HG13	1.54	0.89
1:O:86:LYS:HE2	1:O:89:MET:CE	2.01	0.89
1:O:104:ARG:HA	1:O:107:ILE:CG2	2.02	0.89
1:O:361:GLU:O	1:O:365:TYR:HB2	1.72	0.89
1:Q:326:ILE:HG21	1:Q:349:LEU:HD12	1.54	0.89
1:S:372:LEU:HD12	1:S:422:ILE:HG13	1.54	0.89
1:Y:149:ILE:CG2	1:Y:283:ILE:HG21	2.00	0.89

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Y:410:LEU:HD12	1:Y:423:PRO:CD	1.99	0.89
1:a:361:GLU:O	1:a:365:TYR:HB2	1.72	0.89
1:c:369:PHE:CZ	1:c:410:LEU:CD1	2.53	0.89
1:A:200:LEU:HD12	1:A:228:LEU:HD12	1.53	0.89
2:D:58:LYS:N	2:D:59:PRO:HD2	1.82	0.89
1:E:340:ASN:C	1:E:344:VAL:CB	2.46	0.89
1:G:149:ILE:CG2	1:G:283:ILE:HG21	2.00	0.89
1:I:327:ILE:HD13	1:I:341:TRP:HZ3	1.21	0.89
1:M:361:GLU:O	1:M:365:TYR:HB2	1.72	0.89
1:O:212:ASP:HB2	1:O:220:ARG:HH11	1.34	0.89
1:U:340:ASN:C	1:U:344:VAL:CB	2.46	0.89
1:U:357:LEU:HD12	1:U:430:LYS:HZ1	0.73	0.89
1:W:104:ARG:HA	1:W:107:ILE:CG2	2.02	0.89
1:W:174:MET:SD	1:W:241:LEU:HB2	2.12	0.89
2:X:58:LYS:N	2:X:59:PRO:HD2	1.82	0.89
1:c:149:ILE:CG2	1:c:283:ILE:HG21	2.00	0.89
1:c:216:ASN:HB3	1:c:219:LEU:H	1.33	0.89
1:A:192:VAL:CG1	1:A:221:ILE:HD11	2.02	0.89
1:C:104:ARG:HA	1:C:107:ILE:CG2	2.02	0.89
1:E:357:LEU:HD12	1:E:430:LYS:HZ1	0.73	0.89
1:I:453:PHE:HD2	1:I:461:PRO:HG2	1.36	0.89
1:S:365:TYR:HH	1:S:404:LYS:HG2	1.36	0.89
1:W:86:LYS:HE2	1:W:89:MET:CE	2.01	0.89
1:W:326:ILE:HG21	1:W:349:LEU:HD12	1.54	0.89
1:c:157:LYS:HE3	3:c:2000:ADP:O3B	1.71	0.89
1:c:361:GLU:O	1:c:365:TYR:HB2	1.72	0.89
1:A:453:PHE:HD2	1:A:461:PRO:HG2	1.36	0.89
1:C:88:LEU:C	1:C:91:PRO:CD	2.43	0.89
2:D:77:LEU:O	2:D:80:THR:CG2	2.20	0.89
2:F:77:LEU:O	2:F:80:THR:CG2	2.20	0.89
1:K:357:LEU:HG	1:K:430:LYS:CE	2.03	0.89
1:M:192:VAL:CG1	1:M:221:ILE:HD11	2.02	0.89
1:M:326:ILE:HG21	1:M:349:LEU:HD12	1.54	0.89
1:O:357:LEU:CD1	1:O:366:ARG:NE	2.34	0.89
1:U:200:LEU:HD12	1:U:228:LEU:HD12	1.53	0.89
2:X:77:LEU:O	2:X:80:THR:CG2	2.20	0.89
2:f:57:GLY:C	2:f:59:PRO:CD	2.44	0.89
1:A:133:LYS:CB	1:A:283:ILE:HD11	2.01	0.89
1:A:212:ASP:HB2	1:A:220:ARG:HH11	1.34	0.89
1:A:327:ILE:HD13	1:A:341:TRP:HZ3	1.21	0.89
1:C:86:LYS:HE2	1:C:89:MET:CE	2.01	0.89

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:192:VAL:CG1	1:I:221:ILE:HD11	2.02	0.89
2:L:57:GLY:C	2:L:59:PRO:CD	2.44	0.89
1:M:104:ARG:HA	1:M:107:ILE:CG2	2.02	0.89
1:M:149:ILE:CG2	1:M:283:ILE:HG21	2.00	0.89
1:Q:104:ARG:HA	1:Q:107:ILE:CG2	2.02	0.89
1:Q:149:ILE:CG2	1:Q:283:ILE:HG21	2.00	0.89
1:S:149:ILE:CG2	1:S:283:ILE:HG21	2.00	0.89
2:V:77:LEU:O	2:V:80:THR:CG2	2.20	0.89
1:W:88:LEU:C	1:W:91:PRO:CD	2.43	0.89
1:Y:372:LEU:HD12	1:Y:422:ILE:HG13	1.54	0.89
1:a:149:ILE:CG2	1:a:283:ILE:HG21	2.00	0.89
1:a:212:ASP:HB2	1:a:220:ARG:HH11	1.34	0.89
1:a:357:LEU:CD1	1:a:366:ARG:NE	2.34	0.89
1:c:192:VAL:CG1	1:c:221:ILE:HD11	2.02	0.89
1:e:357:LEU:HG	1:e:430:LYS:CE	2.03	0.89
1:A:174:MET:SD	1:A:241:LEU:HB2	2.12	0.89
1:I:174:MET:SD	1:I:241:LEU:HB2	2.12	0.89
1:I:340:ASN:C	1:I:344:VAL:CB	2.46	0.89
1:I:372:LEU:HD12	1:I:422:ILE:HG13	1.54	0.89
1:O:88:LEU:C	1:O:91:PRO:CD	2.43	0.89
1:O:357:LEU:HG	1:O:430:LYS:CE	2.03	0.89
1:Q:372:LEU:HD12	1:Q:422:ILE:HG13	1.54	0.89
2:R:77:LEU:O	2:R:80:THR:CG2	2.20	0.89
1:S:133:LYS:CB	1:S:283:ILE:HD11	2.01	0.89
1:U:133:LYS:CB	1:U:283:ILE:HD11	2.01	0.89
1:W:361:GLU:O	1:W:365:TYR:HB2	1.72	0.89
1:Y:104:ARG:HA	1:Y:107:ILE:CG2	2.02	0.89
1:a:88:LEU:C	1:a:91:PRO:CD	2.43	0.89
1:c:326:ILE:HG21	1:c:349:LEU:HD12	1.54	0.89
1:c:371:ARG:HD2	1:c:389:ILE:HD12	0.92	0.89
1:A:340:ASN:C	1:A:344:VAL:CB	2.46	0.89
1:C:361:GLU:O	1:C:365:TYR:HB2	1.72	0.89
1:E:133:LYS:CB	1:E:283:ILE:HD11	2.01	0.89
1:I:133:LYS:CB	1:I:283:ILE:HD11	2.01	0.89
1:I:157:LYS:HE3	3:I:2000:ADP:O1B	1.71	0.89
1:M:212:ASP:HB2	1:M:220:ARG:HH11	1.34	0.89
1:O:149:ILE:CG2	1:O:283:ILE:HG21	2.00	0.89
2:Z:77:LEU:O	2:Z:80:THR:CG2	2.20	0.89
1:a:357:LEU:HG	1:a:430:LYS:CE	2.03	0.89
1:c:104:ARG:HA	1:c:107:ILE:CG2	2.02	0.89
1:c:212:ASP:HB2	1:c:220:ARG:HH11	1.34	0.89

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:e:149:ILE:HG23	1:e:283:ILE:HG21	1.55	0.89
1:A:157:LYS:HE3	3:A:2000:ADP:O3B	1.71	0.89
1:A:372:LEU:HD12	1:A:422:ILE:HG13	1.54	0.89
1:G:133:LYS:CB	1:G:283:ILE:HD11	2.01	0.89
1:I:212:ASP:HB2	1:I:220:ARG:HH11	1.34	0.89
1:K:149:ILE:HG23	1:K:283:ILE:HG21	1.55	0.89
1:M:410:LEU:HD12	1:M:423:PRO:CD	1.99	0.89
2:N:57:GLY:C	2:N:59:PRO:CD	2.44	0.89
2:d:57:GLY:C	2:d:59:PRO:CD	2.44	0.89
1:e:212:ASP:HB2	1:e:220:ARG:HH11	1.34	0.89
1:A:149:ILE:CG2	1:A:283:ILE:HG21	2.00	0.89
1:A:326:ILE:HG21	1:A:349:LEU:HD12	1.54	0.89
1:C:120:PHE:CE1	1:C:124:ASN:CB	2.56	0.89
1:G:369:PHE:CZ	1:G:410:LEU:CD1	2.53	0.89
1:G:371:ARG:CD	1:G:389:ILE:HD12	1.76	0.89
2:L:77:LEU:O	2:L:80:THR:CG2	2.20	0.89
1:M:371:ARG:HD2	1:M:389:ILE:HD12	0.92	0.89
1:S:357:LEU:HG	1:S:430:LYS:CE	2.03	0.89
1:W:192:VAL:CG1	1:W:221:ILE:HD11	2.02	0.89
1:Y:453:PHE:HD2	1:Y:461:PRO:HG2	1.36	0.89
2:f:77:LEU:O	2:f:80:THR:CG2	2.20	0.89
1:C:192:VAL:CG1	1:C:221:ILE:HD11	2.02	0.88
1:G:357:LEU:HG	1:G:430:LYS:CE	2.03	0.88
1:G:361:GLU:O	1:G:365:TYR:HB2	1.72	0.88
1:S:340:ASN:C	1:S:344:VAL:CB	2.46	0.88
1:W:120:PHE:CE1	1:W:124:ASN:CB	2.56	0.88
1:Y:357:LEU:HG	1:Y:430:LYS:CE	2.03	0.88
1:a:279:THR:HG21	1:c:118:GLN:HE22	0.88	0.88
1:G:340:ASN:C	1:G:344:VAL:CB	2.46	0.88
1:I:149:ILE:CG2	1:I:283:ILE:HG21	2.00	0.88
1:I:326:ILE:HG21	1:I:349:LEU:HD12	1.54	0.88
1:Q:357:LEU:HG	1:Q:430:LYS:CE	2.03	0.88
1:c:357:LEU:HG	1:c:430:LYS:CE	2.03	0.88
2:B:57:GLY:C	2:B:59:PRO:CD	2.44	0.88
1:C:120:PHE:CD1	1:C:124:ASN:HB2	2.08	0.88
1:E:120:PHE:CE1	1:E:124:ASN:CB	2.56	0.88
1:G:453:PHE:HD2	1:G:461:PRO:HG2	1.36	0.88
2:H:77:LEU:O	2:H:80:THR:CG2	2.20	0.88
2:J:77:LEU:O	2:J:80:THR:CG2	2.20	0.88
1:K:12:TYR:HE2	1:K:77:VAL:HG11	1.37	0.88
1:K:120:PHE:CE1	1:K:124:ASN:CB	2.56	0.88

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:120:PHE:CD1	1:K:124:ASN:HB2	2.08	0.88
1:K:174:MET:SD	1:K:241:LEU:HB2	2.12	0.88
1:K:212:ASP:HB2	1:K:220:ARG:HH11	1.34	0.88
1:M:118:GLN:HE22	1:O:279:THR:HG21	0.88	0.88
1:M:357:LEU:HG	1:M:430:LYS:CE	2.03	0.88
1:Q:172:CYS:SG	1:Q:176:PHE:HZ	1.97	0.88
1:S:274:PHE:HB3	1:S:275:LEU:HD13	1.54	0.88
1:S:361:GLU:O	1:S:365:TYR:HB2	1.72	0.88
1:S:369:PHE:CZ	1:S:410:LEU:CD1	2.53	0.88
1:U:120:PHE:CE1	1:U:124:ASN:CB	2.56	0.88
1:W:120:PHE:CD1	1:W:124:ASN:HB2	2.08	0.88
1:Y:172:CYS:SG	1:Y:176:PHE:HZ	1.97	0.88
1:Y:361:GLU:O	1:Y:365:TYR:HB2	1.72	0.88
1:c:410:LEU:HD12	1:c:423:PRO:CD	1.99	0.88
1:e:104:ARG:HA	1:e:107:ILE:CG2	2.02	0.88
1:e:120:PHE:CE1	1:e:124:ASN:CB	2.56	0.88
1:e:120:PHE:CD1	1:e:124:ASN:HB2	2.08	0.88
1:e:174:MET:SD	1:e:241:LEU:HB2	2.12	0.88
2:B:77:LEU:O	2:B:80:THR:CG2	2.20	0.88
1:C:172:CYS:SG	1:C:176:PHE:HZ	1.97	0.88
1:C:357:LEU:HG	1:C:430:LYS:CE	2.03	0.88
1:E:372:LEU:HD12	1:E:422:ILE:HG13	1.54	0.88
1:E:538:LEU:HD21	1:E:572:ALA:H	1.35	0.88
1:G:104:ARG:HA	1:G:107:ILE:CG2	2.02	0.88
2:J:57:GLY:C	2:J:59:PRO:CD	2.44	0.88
1:M:172:CYS:SG	1:M:176:PHE:HZ	1.97	0.88
1:M:372:LEU:HD11	1:M:422:ILE:CG1	2.04	0.88
1:Q:453:PHE:HD2	1:Q:461:PRO:HG2	1.36	0.88
1:S:104:ARG:HA	1:S:107:ILE:CG2	2.02	0.88
2:T:77:LEU:O	2:T:80:THR:CG2	2.20	0.88
1:U:372:LEU:HD12	1:U:422:ILE:HG13	1.54	0.88
1:U:538:LEU:HD21	1:U:572:ALA:H	1.35	0.88
1:Y:340:ASN:C	1:Y:344:VAL:CB	2.46	0.88
1:e:12:TYR:HE2	1:e:77:VAL:HG11	1.37	0.88
1:e:340:ASN:C	1:e:344:VAL:CB	2.46	0.88
1:C:372:LEU:HD12	1:C:422:ILE:HG13	1.54	0.88
1:G:357:LEU:CG	1:G:430:LYS:CE	2.52	0.88
1:G:410:LEU:CA	1:G:423:PRO:HG3	1.96	0.88
1:K:104:ARG:HA	1:K:107:ILE:CG2	2.02	0.88
1:K:340:ASN:C	1:K:344:VAL:CB	2.46	0.88
1:O:118:GLN:HE22	1:Q:279:THR:HG21	0.88	0.88

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:P:77:LEU:O	2:P:80:THR:CG2	2.20	0.88
1:Q:340:ASN:C	1:Q:344:VAL:CB	2.46	0.88
1:Q:361:GLU:O	1:Q:365:TYR:HB2	1.72	0.88
1:S:357:LEU:CG	1:S:430:LYS:CE	2.52	0.88
1:S:371:ARG:CD	1:S:389:ILE:HD12	1.76	0.88
1:S:410:LEU:CA	1:S:423:PRO:HG3	1.96	0.88
1:S:453:PHE:HD2	1:S:461:PRO:HG2	1.36	0.88
1:W:172:CYS:SG	1:W:176:PHE:HZ	1.97	0.88
1:W:357:LEU:HG	1:W:430:LYS:CE	2.03	0.88
1:W:372:LEU:HD12	1:W:422:ILE:HG13	1.54	0.88
2:b:77:LEU:O	2:b:80:THR:CG2	2.20	0.88
1:c:120:PHE:CD1	1:c:124:ASN:HB2	2.08	0.88
1:c:172:CYS:SG	1:c:176:PHE:HZ	1.97	0.88
1:c:372:LEU:HD11	1:c:422:ILE:CG1	2.04	0.88
1:A:357:LEU:HG	1:A:430:LYS:CE	2.03	0.88
1:C:274:PHE:HB3	1:C:275:LEU:HD13	1.54	0.88
1:E:453:PHE:HD2	1:E:461:PRO:HG2	1.36	0.88
1:G:120:PHE:CD1	1:G:124:ASN:HB2	2.08	0.88
1:G:274:PHE:HB3	1:G:275:LEU:HD13	1.54	0.88
1:G:357:LEU:HD12	1:G:430:LYS:HZ1	0.71	0.88
1:K:361:GLU:O	1:K:365:TYR:HB2	1.72	0.88
1:K:410:LEU:HD13	1:K:423:PRO:HD2	0.88	0.88
1:M:120:PHE:CD1	1:M:124:ASN:HB2	2.08	0.88
1:O:410:LEU:HD13	1:O:423:PRO:HD2	0.88	0.88
1:S:88:LEU:C	1:S:91:PRO:CD	2.43	0.88
1:S:120:PHE:CD1	1:S:124:ASN:HB2	2.08	0.88
1:Y:279:THR:HG21	1:a:118:GLN:HE22	0.88	0.88
1:a:410:LEU:HD13	1:a:423:PRO:HD2	0.88	0.88
1:c:120:PHE:CE1	1:c:124:ASN:CB	2.56	0.88
1:e:172:CYS:SG	1:e:176:PHE:HZ	1.97	0.88
1:e:361:GLU:O	1:e:365:TYR:HB2	1.72	0.88
1:A:372:LEU:HD11	1:A:422:ILE:CG1	2.04	0.88
1:A:410:LEU:HD13	1:A:423:PRO:HD2	0.88	0.88
1:C:340:ASN:C	1:C:344:VAL:CB	2.46	0.88
1:I:149:ILE:HG23	1:I:283:ILE:HG21	1.55	0.88
1:K:172:CYS:SG	1:K:176:PHE:HZ	1.97	0.88
1:M:120:PHE:CE1	1:M:124:ASN:CB	2.56	0.88
1:M:253:TRP:O	1:M:256:PHE:N	2.07	0.88
1:a:253:TRP:O	1:a:256:PHE:N	2.07	0.88
1:c:253:TRP:O	1:c:256:PHE:N	2.07	0.88
1:e:410:LEU:HD13	1:e:423:PRO:HD2	0.88	0.88

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:120:PHE:CD1	1:A:124:ASN:HB2	2.08	0.88
1:E:357:LEU:CG	1:E:430:LYS:CE	2.52	0.88
1:G:88:LEU:C	1:G:91:PRO:CD	2.43	0.88
1:I:120:PHE:CD1	1:I:124:ASN:HB2	2.08	0.88
1:I:357:LEU:HG	1:I:430:LYS:CE	2.03	0.88
1:I:410:LEU:HD13	1:I:423:PRO:HD2	0.88	0.88
1:K:372:LEU:HD11	1:K:422:ILE:CG1	2.04	0.88
1:O:253:TRP:O	1:O:256:PHE:N	2.07	0.88
1:Q:410:LEU:HD13	1:Q:423:PRO:HD2	0.88	0.88
1:a:372:LEU:HD12	1:a:422:ILE:HG13	1.54	0.88
1:c:340:ASN:C	1:c:344:VAL:CB	2.46	0.88
1:e:372:LEU:HD11	1:e:422:ILE:CG1	2.04	0.88
1:A:149:ILE:HG23	1:A:283:ILE:HG21	1.55	0.88
1:E:253:TRP:O	1:E:256:PHE:N	2.07	0.88
1:G:372:LEU:HD11	1:G:422:ILE:CG1	2.04	0.88
1:I:372:LEU:HD11	1:I:422:ILE:CG1	2.04	0.88
1:M:340:ASN:C	1:M:344:VAL:CB	2.46	0.88
1:O:365:TYR:HH	1:O:404:LYS:HG2	1.33	0.88
1:U:357:LEU:CG	1:U:430:LYS:CE	2.52	0.88
1:U:453:PHE:HD2	1:U:461:PRO:HG2	1.36	0.88
1:W:274:PHE:HB3	1:W:275:LEU:HD13	1.54	0.88
1:W:340:ASN:C	1:W:344:VAL:CB	2.46	0.88
1:Y:410:LEU:HD13	1:Y:423:PRO:HD2	0.88	0.88
1:A:369:PHE:CZ	1:A:410:LEU:CD1	2.53	0.88
1:E:326:ILE:HG21	1:E:349:LEU:HD12	1.54	0.88
1:G:172:CYS:SG	1:G:176:PHE:HZ	1.97	0.88
1:G:253:TRP:O	1:G:256:PHE:N	2.07	0.88
1:Q:120:PHE:CE1	1:Q:124:ASN:CB	2.56	0.88
1:S:172:CYS:SG	1:S:176:PHE:HZ	1.97	0.88
1:S:253:TRP:O	1:S:256:PHE:N	2.07	0.88
1:U:253:TRP:O	1:U:256:PHE:N	2.07	0.88
1:U:357:LEU:HG	1:U:430:LYS:CE	2.03	0.88
2:d:77:LEU:O	2:d:80:THR:CG2	2.20	0.88
1:E:120:PHE:CD1	1:E:124:ASN:HB2	2.08	0.87
1:I:369:PHE:CZ	1:I:410:LEU:CD1	2.53	0.87
2:N:77:LEU:O	2:N:80:THR:CG2	2.20	0.87
1:O:372:LEU:HD12	1:O:422:ILE:HG13	1.54	0.87
1:Q:120:PHE:CD1	1:Q:124:ASN:HB2	2.08	0.87
1:Q:372:LEU:HD11	1:Q:422:ILE:CG1	2.04	0.87
1:S:372:LEU:HD11	1:S:422:ILE:CG1	2.04	0.87
1:U:274:PHE:HB3	1:U:275:LEU:HD13	1.54	0.87

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Y:120:PHE:CE1	1:Y:124:ASN:CB	2.56	0.87
1:a:12:TYR:HE2	1:a:77:VAL:HG11	1.37	0.87
1:a:340:ASN:C	1:a:344:VAL:CB	2.46	0.87
1:A:361:GLU:O	1:A:365:TYR:HB2	1.72	0.87
1:E:357:LEU:HG	1:E:430:LYS:CE	2.03	0.87
1:I:120:PHE:CE1	1:I:124:ASN:CB	2.56	0.87
1:I:357:LEU:CG	1:I:430:LYS:NZ	2.37	0.87
1:K:84:ASN:OD1	1:K:85:TYR:CD2	2.28	0.87
1:M:84:ASN:OD1	1:M:85:TYR:CD2	2.28	0.87
1:O:340:ASN:C	1:O:344:VAL:CB	2.46	0.87
1:Y:253:TRP:O	1:Y:256:PHE:N	2.07	0.87
1:Y:372:LEU:HD11	1:Y:422:ILE:CG1	2.04	0.87
1:c:84:ASN:OD1	1:c:85:TYR:CD2	2.28	0.87
1:A:120:PHE:CE1	1:A:124:ASN:CB	2.56	0.87
1:A:357:LEU:CG	1:A:430:LYS:NZ	2.37	0.87
1:C:357:LEU:CG	1:C:430:LYS:CE	2.52	0.87
1:E:274:PHE:HB3	1:E:275:LEU:HD13	1.54	0.87
1:O:12:TYR:HE2	1:O:77:VAL:HG11	1.37	0.87
1:Q:253:TRP:O	1:Q:256:PHE:N	2.07	0.87
1:S:410:LEU:HD13	1:S:423:PRO:HD2	0.88	0.87
1:U:120:PHE:CD1	1:U:124:ASN:HB2	2.08	0.87
1:U:326:ILE:HG21	1:U:349:LEU:HD12	1.54	0.87
1:U:372:LEU:HD11	1:U:422:ILE:CG1	2.04	0.87
1:Y:120:PHE:CD1	1:Y:124:ASN:HB2	2.08	0.87
1:e:84:ASN:OD1	1:e:85:TYR:CD2	2.28	0.87
1:A:84:ASN:OD1	1:A:85:TYR:CD2	2.28	0.87
1:C:171:GLN:HG2	1:C:176:PHE:HD1	1.40	0.87
1:E:372:LEU:HD11	1:E:422:ILE:CG1	2.04	0.87
1:G:410:LEU:HD13	1:G:423:PRO:HD2	0.88	0.87
1:I:84:ASN:OD1	1:I:85:TYR:CD2	2.28	0.87
1:Q:88:LEU:C	1:Q:91:PRO:CD	2.43	0.87
2:R:63:ASP:OD1	2:R:64:GLU:N	2.08	0.87
1:S:326:ILE:HG21	1:S:349:LEU:HD12	1.54	0.87
1:a:326:ILE:HG21	1:a:349:LEU:HD12	1.54	0.87
1:A:253:TRP:O	1:A:256:PHE:N	2.07	0.87
1:C:357:LEU:CG	1:C:430:LYS:NZ	2.37	0.87
1:I:361:GLU:O	1:I:365:TYR:HB2	1.72	0.87
1:K:253:TRP:O	1:K:256:PHE:N	2.07	0.87
1:K:518:LEU:CD2	1:K:646:UNK:CA	2.53	0.87
1:M:357:LEU:CG	1:M:430:LYS:NZ	2.37	0.87
1:M:410:LEU:CB	1:M:423:PRO:HD2	1.96	0.87

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:O:84:ASN:OD1	1:O:85:TYR:CD2	2.28	0.87
1:S:357:LEU:HD12	1:S:430:LYS:HZ1	0.70	0.87
1:W:357:LEU:CG	1:W:430:LYS:CE	2.52	0.87
2:Z:63:ASP:OD1	2:Z:64:GLU:N	2.08	0.87
1:a:84:ASN:OD1	1:a:85:TYR:CD2	2.28	0.87
1:a:171:GLN:HG2	1:a:176:PHE:HD1	1.40	0.87
1:a:172:CYS:SG	1:a:176:PHE:HZ	1.97	0.87
1:a:372:LEU:HD11	1:a:422:ILE:CG1	2.04	0.87
2:b:57:GLY:C	2:b:59:PRO:CD	2.44	0.87
1:c:274:PHE:HB3	1:c:275:LEU:HD13	1.54	0.87
1:c:410:LEU:CB	1:c:423:PRO:HD2	1.96	0.87
1:e:518:LEU:CD2	1:e:646:UNK:CA	2.53	0.87
1:M:785:UNK:C	1:M:819:UNK:CB	2.53	0.87
1:O:171:GLN:HG2	1:O:176:PHE:HD1	1.40	0.87
2:P:57:GLY:C	2:P:59:PRO:CD	2.44	0.87
1:U:357:LEU:CG	1:U:430:LYS:NZ	2.37	0.87
1:W:171:GLN:HG2	1:W:176:PHE:HD1	1.40	0.87
1:W:357:LEU:CG	1:W:430:LYS:NZ	2.37	0.87
1:a:357:LEU:HD12	1:a:430:LYS:HZ1	0.70	0.87
1:c:357:LEU:CG	1:c:430:LYS:NZ	2.37	0.87
1:c:785:UNK:C	1:c:819:UNK:CB	2.53	0.87
1:E:357:LEU:CG	1:E:430:LYS:NZ	2.37	0.87
1:G:326:ILE:HG21	1:G:349:LEU:HD12	1.54	0.87
1:I:253:TRP:O	1:I:256:PHE:N	2.07	0.87
1:O:172:CYS:SG	1:O:176:PHE:HZ	1.97	0.87
1:O:326:ILE:HG21	1:O:349:LEU:HD12	1.54	0.87
1:O:357:LEU:HD12	1:O:430:LYS:HZ1	0.70	0.87
1:Y:88:LEU:C	1:Y:91:PRO:CD	2.43	0.87
1:e:253:TRP:O	1:e:256:PHE:N	2.07	0.87
1:e:357:LEU:CG	1:e:430:LYS:NZ	2.37	0.87
1:C:253:TRP:O	1:C:256:PHE:N	2.07	0.87
1:C:410:LEU:HD13	1:C:423:PRO:HD2	0.88	0.87
1:K:171:GLN:HG2	1:K:176:PHE:HD1	1.40	0.87
1:K:357:LEU:CG	1:K:430:LYS:NZ	2.37	0.87
1:O:372:LEU:HD11	1:O:422:ILE:CG1	2.04	0.87
1:O:785:UNK:C	1:O:819:UNK:CB	2.53	0.87
1:S:120:PHE:CE1	1:S:124:ASN:CB	2.56	0.87
1:a:785:UNK:C	1:a:819:UNK:CB	2.53	0.87
2:b:63:ASP:OD1	2:b:64:GLU:N	2.08	0.87
1:e:171:GLN:HG2	1:e:176:PHE:HD1	1.40	0.87
1:C:785:UNK:C	1:C:819:UNK:CB	2.53	0.87

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:12:TYR:HE2	1:E:77:VAL:HG11	1.37	0.87
1:K:357:LEU:CD1	1:K:366:ARG:HD2	2.05	0.87
1:K:785:UNK:C	1:K:819:UNK:CB	2.53	0.87
1:M:274:PHE:HB3	1:M:275:LEU:HD13	1.54	0.87
1:O:120:PHE:CD1	1:O:124:ASN:HB2	2.08	0.87
1:U:172:CYS:SG	1:U:176:PHE:HZ	1.97	0.87
1:a:120:PHE:CD1	1:a:124:ASN:HB2	2.08	0.87
1:e:357:LEU:CD1	1:e:366:ARG:HD2	2.05	0.87
1:e:785:UNK:C	1:e:819:UNK:CB	2.53	0.87
1:G:120:PHE:CE1	1:G:124:ASN:CB	2.56	0.86
1:M:357:LEU:CG	1:M:430:LYS:HZ3	1.87	0.86
2:P:63:ASP:OD1	2:P:64:GLU:N	2.08	0.86
1:Q:357:LEU:CG	1:Q:430:LYS:CE	2.52	0.86
1:U:410:LEU:HD13	1:U:423:PRO:HD2	0.88	0.86
1:W:253:TRP:O	1:W:256:PHE:N	2.07	0.86
1:W:410:LEU:HD13	1:W:423:PRO:HD2	0.88	0.86
1:W:785:UNK:C	1:W:819:UNK:CB	2.53	0.86
2:X:63:ASP:OD1	2:X:64:GLU:N	2.08	0.86
1:a:365:TYR:HH	1:a:404:LYS:HG2	1.35	0.86
2:D:63:ASP:OD1	2:D:64:GLU:N	2.08	0.86
1:E:172:CYS:SG	1:E:176:PHE:HZ	1.97	0.86
1:G:84:ASN:OD1	1:G:85:TYR:CD2	2.28	0.86
1:G:518:LEU:CD2	1:G:646:UNK:CA	2.53	0.86
1:I:172:CYS:SG	1:I:176:PHE:HZ	1.97	0.86
1:I:357:LEU:CD1	1:I:366:ARG:HD2	2.05	0.86
1:S:84:ASN:OD1	1:S:85:TYR:CD2	2.28	0.86
1:S:518:LEU:CD2	1:S:646:UNK:CA	2.53	0.86
1:U:785:UNK:C	1:U:819:UNK:CB	2.53	0.86
1:Y:410:LEU:CB	1:Y:423:PRO:HD2	1.96	0.86
1:A:88:LEU:C	1:A:91:PRO:CD	2.43	0.86
1:E:410:LEU:HD13	1:E:423:PRO:HD2	0.88	0.86
1:E:785:UNK:C	1:E:819:UNK:CB	2.53	0.86
1:G:410:LEU:HD23	1:G:426:TYR:CD1	2.10	0.86
2:H:57:GLY:C	2:H:59:PRO:CD	2.44	0.86
1:I:88:LEU:C	1:I:91:PRO:CD	2.43	0.86
1:O:234:SER:O	1:O:235:LYS:HE3	1.76	0.86
1:Q:410:LEU:CB	1:Q:423:PRO:HD2	1.96	0.86
1:S:410:LEU:HD23	1:S:426:TYR:CD1	2.10	0.86
2:T:57:GLY:C	2:T:59:PRO:CD	2.44	0.86
1:U:12:TYR:HE2	1:U:77:VAL:HG11	1.37	0.86
1:Y:357:LEU:CG	1:Y:430:LYS:CE	2.52	0.86

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:a:234:SER:O	1:a:235:LYS:HE3	1.76	0.86
1:a:410:LEU:CB	1:a:423:PRO:HD2	1.96	0.86
1:A:172:CYS:SG	1:A:176:PHE:HZ	1.97	0.86
1:C:372:LEU:HD11	1:C:422:ILE:CG1	2.04	0.86
1:E:234:SER:O	1:E:235:LYS:HE3	1.76	0.86
1:K:410:LEU:HB2	1:K:423:PRO:CB	2.05	0.86
1:e:234:SER:O	1:e:235:LYS:HE3	1.76	0.86
1:C:84:ASN:OD1	1:C:85:TYR:CD2	2.28	0.86
1:E:84:ASN:OD1	1:E:85:TYR:CD2	2.28	0.86
1:E:171:GLN:HG2	1:E:176:PHE:HD1	1.39	0.86
1:E:410:LEU:HD23	1:E:426:TYR:CD1	2.10	0.86
1:G:785:UNK:C	1:G:819:UNK:CB	2.53	0.86
1:K:234:SER:O	1:K:235:LYS:HE3	1.76	0.86
1:K:357:LEU:CG	1:K:430:LYS:CE	2.52	0.86
1:M:410:LEU:HB2	1:M:423:PRO:CB	2.05	0.86
1:M:518:LEU:CD2	1:M:646:UNK:CA	2.53	0.86
1:O:410:LEU:CB	1:O:423:PRO:HD2	1.96	0.86
1:U:234:SER:O	1:U:235:LYS:HE3	1.76	0.86
1:U:410:LEU:HD23	1:U:426:TYR:CD1	2.10	0.86
1:W:84:ASN:OD1	1:W:85:TYR:CD2	2.28	0.86
1:a:120:PHE:CE1	1:a:124:ASN:CB	2.56	0.86
1:c:410:LEU:HB2	1:c:423:PRO:CB	2.05	0.86
1:e:357:LEU:CG	1:e:430:LYS:CE	2.52	0.86
1:e:410:LEU:HB2	1:e:423:PRO:CB	2.05	0.86
1:A:785:UNK:C	1:A:819:UNK:CB	2.53	0.86
1:C:518:LEU:CD2	1:C:646:UNK:CA	2.53	0.86
1:I:410:LEU:HB2	1:I:423:PRO:CB	2.05	0.86
2:J:63:ASP:OD1	2:J:64:GLU:N	2.08	0.86
1:M:357:LEU:CG	1:M:430:LYS:CE	2.52	0.86
1:M:410:LEU:HD13	1:M:423:PRO:HD2	0.88	0.86
1:Q:518:LEU:CD2	1:Q:646:UNK:CA	2.53	0.86
1:Q:785:UNK:C	1:Q:819:UNK:CB	2.53	0.86
1:S:785:UNK:C	1:S:819:UNK:CB	2.53	0.86
1:U:84:ASN:OD1	1:U:85:TYR:CD2	2.28	0.86
1:W:372:LEU:HD11	1:W:422:ILE:CG1	2.04	0.86
1:W:518:LEU:CD2	1:W:646:UNK:CA	2.53	0.86
1:Y:518:LEU:CD2	1:Y:646:UNK:CA	2.53	0.86
1:Y:785:UNK:C	1:Y:819:UNK:CB	2.53	0.86
1:a:357:LEU:CG	1:a:430:LYS:NZ	2.37	0.86
1:c:357:LEU:CD1	1:c:366:ARG:HD2	2.05	0.86
1:c:357:LEU:CG	1:c:430:LYS:CE	2.52	0.86

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:365:TYR:HH	1:A:404:LYS:HG2	1.38	0.86
1:A:410:LEU:HD23	1:A:426:TYR:CD1	2.10	0.86
2:B:63:ASP:OD1	2:B:64:GLU:N	2.08	0.86
1:I:785:UNK:C	1:I:819:UNK:CB	2.53	0.86
1:M:357:LEU:CD1	1:M:366:ARG:HD2	2.05	0.86
1:O:120:PHE:CE1	1:O:124:ASN:CB	2.56	0.86
1:O:357:LEU:CG	1:O:430:LYS:NZ	2.37	0.86
1:c:518:LEU:CD2	1:c:646:UNK:CA	2.53	0.86
1:A:410:LEU:HB2	1:A:423:PRO:CB	2.05	0.86
1:I:410:LEU:HD23	1:I:426:TYR:CD1	2.10	0.86
1:Q:84:ASN:OD1	1:Q:85:TYR:CD2	2.28	0.86
1:W:234:SER:O	1:W:235:LYS:HE3	1.76	0.86
1:Y:171:GLN:HG2	1:Y:176:PHE:HD1	1.39	0.86
1:c:410:LEU:HD13	1:c:423:PRO:HD2	0.88	0.86
2:L:63:ASP:OD1	2:L:64:GLU:N	2.08	0.86
1:O:279:THR:C	1:O:280:THR:CG2	2.49	0.86
1:S:234:SER:O	1:S:235:LYS:HE3	1.76	0.86
1:U:171:GLN:HG2	1:U:176:PHE:HD1	1.39	0.86
1:W:12:TYR:HE2	1:W:77:VAL:HG11	1.37	0.86
1:Y:84:ASN:OD1	1:Y:85:TYR:CD2	2.28	0.86
1:a:279:THR:C	1:a:280:THR:CG2	2.49	0.86
2:d:63:ASP:OD1	2:d:64:GLU:N	2.08	0.86
2:f:63:ASP:OD1	2:f:64:GLU:N	2.08	0.86
1:A:365:TYR:HD1	1:A:405:LEU:HD22	1.41	0.86
1:C:234:SER:O	1:C:235:LYS:HE3	1.76	0.86
1:C:410:LEU:HD23	1:C:426:TYR:CD1	2.10	0.86
1:G:149:ILE:HG23	1:G:283:ILE:HG21	1.55	0.86
1:G:410:LEU:HB2	1:G:423:PRO:CB	2.05	0.86
1:I:365:TYR:HD1	1:I:405:LEU:HD22	1.41	0.86
1:Q:171:GLN:HG2	1:Q:176:PHE:HD1	1.39	0.86
1:U:518:LEU:CD2	1:U:646:UNK:CA	2.53	0.86
1:Y:357:LEU:CG	1:Y:430:LYS:NZ	2.37	0.86
1:Y:410:LEU:CA	1:Y:426:TYR:CE1	2.56	0.86
1:Y:489:MET:HB3	1:Y:539:VAL:HB	1.58	0.86
1:C:410:LEU:HB2	1:C:423:PRO:CB	2.05	0.85
1:E:229:ARG:O	1:E:233:LYS:CE	2.24	0.85
1:E:279:THR:C	1:E:280:THR:CG2	2.49	0.85
1:E:410:LEU:HB2	1:E:423:PRO:CB	2.05	0.85
1:E:518:LEU:CD2	1:E:646:UNK:CA	2.53	0.85
1:G:15:ILE:CG2	1:G:95:GLU:CB	2.54	0.85
1:G:229:ARG:O	1:G:233:LYS:CE	2.24	0.85

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:234:SER:O	1:G:235:LYS:HE3	1.76	0.85
2:N:63:ASP:OD1	2:N:64:GLU:N	2.08	0.85
1:Q:489:MET:HB3	1:Q:539:VAL:HB	1.58	0.85
1:S:15:ILE:CG2	1:S:95:GLU:CB	2.54	0.85
1:S:229:ARG:O	1:S:233:LYS:CE	2.24	0.85
1:S:357:LEU:CG	1:S:430:LYS:NZ	2.37	0.85
1:U:229:ARG:O	1:U:233:LYS:CE	2.24	0.85
1:U:279:THR:C	1:U:280:THR:CG2	2.49	0.85
1:W:410:LEU:HD23	1:W:426:TYR:CD1	2.10	0.85
1:c:203:ILE:CG2	1:c:237:TYR:OH	2.21	0.85
1:C:15:ILE:CG2	1:C:95:GLU:CB	2.54	0.85
1:G:365:TYR:HD1	1:G:405:LEU:HD22	1.41	0.85
2:H:63:ASP:OD1	2:H:64:GLU:N	2.08	0.85
1:I:365:TYR:HH	1:I:404:LYS:HG2	1.38	0.85
1:O:229:ARG:O	1:O:233:LYS:CE	2.24	0.85
1:Q:357:LEU:CG	1:Q:430:LYS:NZ	2.37	0.85
1:S:410:LEU:HB2	1:S:423:PRO:CB	2.05	0.85
2:V:63:ASP:OD1	2:V:64:GLU:N	2.08	0.85
1:W:15:ILE:CG2	1:W:95:GLU:CB	2.54	0.85
1:a:229:ARG:O	1:a:233:LYS:CE	2.24	0.85
1:e:410:LEU:HD23	1:e:426:TYR:CD1	2.10	0.85
1:C:12:TYR:HE2	1:C:77:VAL:HG11	1.37	0.85
2:F:63:ASP:OD1	2:F:64:GLU:N	2.08	0.85
1:G:357:LEU:CG	1:G:430:LYS:NZ	2.37	0.85
1:O:357:LEU:CG	1:O:430:LYS:CE	2.52	0.85
1:Q:203:ILE:CG2	1:Q:237:TYR:OH	2.21	0.85
2:T:63:ASP:OD1	2:T:64:GLU:N	2.08	0.85
1:U:410:LEU:HB2	1:U:423:PRO:CB	2.05	0.85
1:W:410:LEU:HB2	1:W:423:PRO:CB	2.05	0.85
1:I:229:ARG:O	1:I:233:LYS:CE	2.24	0.85
1:I:518:LEU:CD2	1:I:646:UNK:CA	2.53	0.85
2:J:36:MET:O	2:J:40:GLN:HB2	1.77	0.85
1:K:410:LEU:HD23	1:K:426:TYR:CD1	2.10	0.85
1:O:410:LEU:CA	1:O:426:TYR:CE1	2.56	0.85
1:S:365:TYR:HD1	1:S:405:LEU:HD22	1.41	0.85
1:a:357:LEU:CG	1:a:430:LYS:CE	2.52	0.85
1:e:15:ILE:HG21	1:e:95:GLU:CB	2.07	0.85
1:A:120:PHE:HE1	1:A:124:ASN:CG	1.85	0.85
1:A:229:ARG:O	1:A:233:LYS:CE	2.24	0.85
2:B:36:MET:O	2:B:40:GLN:HB2	1.77	0.85
1:G:357:LEU:CD1	1:G:366:ARG:HD2	2.05	0.85

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:120:PHE:HE1	1:I:124:ASN:CG	1.85	0.85
1:K:15:ILE:HG21	1:K:95:GLU:CB	2.07	0.85
2:N:36:MET:O	2:N:40:GLN:HB2	1.77	0.85
1:W:229:ARG:O	1:W:233:LYS:CE	2.24	0.85
2:X:36:MET:O	2:X:40:GLN:HB2	1.77	0.85
1:Y:203:ILE:CG2	1:Y:237:TYR:OH	2.21	0.85
1:e:365:TYR:HD1	1:e:405:LEU:HD22	1.41	0.85
1:A:518:LEU:CD2	1:A:646:UNK:CA	2.53	0.85
1:C:229:ARG:O	1:C:233:LYS:CE	2.24	0.85
2:D:36:MET:O	2:D:40:GLN:HB2	1.77	0.85
2:F:36:MET:O	2:F:40:GLN:HB2	1.77	0.85
1:I:234:SER:O	1:I:235:LYS:HE3	1.76	0.85
1:K:365:TYR:HD1	1:K:405:LEU:HD22	1.41	0.85
1:M:15:ILE:CG2	1:M:95:GLU:CB	2.54	0.85
1:Q:410:LEU:HB2	1:Q:423:PRO:CB	2.05	0.85
2:R:36:MET:O	2:R:40:GLN:HB2	1.77	0.85
2:Z:36:MET:O	2:Z:40:GLN:HB2	1.77	0.85
1:c:15:ILE:CG2	1:c:95:GLU:CB	2.54	0.85
2:d:36:MET:O	2:d:40:GLN:HB2	1.77	0.85
1:C:489:MET:HB3	1:C:539:VAL:HB	1.58	0.85
1:E:365:TYR:HD1	1:E:405:LEU:HD22	1.41	0.85
2:L:36:MET:O	2:L:40:GLN:HB2	1.77	0.85
1:O:15:ILE:CG2	1:O:95:GLU:CB	2.54	0.85
2:P:36:MET:O	2:P:40:GLN:HB2	1.77	0.85
1:Q:178:ILE:HG21	1:Q:241:LEU:CD2	2.02	0.85
1:Q:410:LEU:HD23	1:Q:426:TYR:CD1	2.10	0.85
1:S:357:LEU:CD1	1:S:366:ARG:HD2	2.05	0.85
2:V:36:MET:O	2:V:40:GLN:HB2	1.77	0.85
1:W:410:LEU:HD22	1:W:423:PRO:O	1.77	0.85
1:a:15:ILE:CG2	1:a:95:GLU:CB	2.54	0.85
1:a:410:LEU:CA	1:a:426:TYR:CE1	2.56	0.85
2:b:36:MET:O	2:b:40:GLN:HB2	1.77	0.85
1:A:234:SER:O	1:A:235:LYS:HE3	1.76	0.85
1:C:120:PHE:HE1	1:C:124:ASN:CG	1.85	0.85
1:C:365:TYR:HD1	1:C:405:LEU:HD22	1.41	0.85
1:C:410:LEU:HD22	1:C:423:PRO:O	1.77	0.85
1:E:15:ILE:HG21	1:E:95:GLU:CB	2.07	0.85
1:K:15:ILE:CG2	1:K:95:GLU:CB	2.54	0.85
1:M:422:ILE:HG22	1:M:423:PRO:CD	1.77	0.85
1:O:15:ILE:HG21	1:O:95:GLU:CB	2.07	0.85
1:O:120:PHE:HE1	1:O:124:ASN:CG	1.85	0.85

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Q:229:ARG:O	1:Q:233:LYS:CE	2.24	0.85
1:Q:234:SER:O	1:Q:235:LYS:HE3	1.76	0.85
1:Y:410:LEU:HB2	1:Y:423:PRO:CB	2.05	0.85
1:a:120:PHE:HE1	1:a:124:ASN:CG	1.85	0.85
1:c:410:LEU:HD23	1:c:426:TYR:CD1	2.10	0.85
1:e:15:ILE:CG2	1:e:95:GLU:CB	2.54	0.85
2:f:36:MET:O	2:f:40:GLN:HB2	1.77	0.85
1:E:15:ILE:CG2	1:E:95:GLU:CB	2.54	0.85
1:K:229:ARG:O	1:K:233:LYS:CE	2.24	0.85
2:L:58:LYS:N	2:L:59:PRO:CD	2.40	0.85
1:M:171:GLN:HG2	1:M:176:PHE:HD1	1.39	0.85
1:M:186:CYS:HA	1:M:191:THR:HB	1.58	0.85
1:Q:15:ILE:CG2	1:Q:95:GLU:CB	2.54	0.85
1:U:15:ILE:HG21	1:U:95:GLU:CB	2.07	0.85
1:U:365:TYR:HD1	1:U:405:LEU:HD22	1.41	0.85
1:U:410:LEU:HD22	1:U:423:PRO:O	1.77	0.85
1:W:120:PHE:HE1	1:W:124:ASN:CG	1.85	0.85
1:W:489:MET:HB3	1:W:539:VAL:HB	1.58	0.85
1:Y:229:ARG:O	1:Y:233:LYS:CE	2.24	0.85
1:Y:410:LEU:HD23	1:Y:426:TYR:CD1	2.10	0.85
1:a:15:ILE:HG21	1:a:95:GLU:CB	2.07	0.85
1:a:410:LEU:HD23	1:a:426:TYR:CD1	2.10	0.85
1:a:518:LEU:CD2	1:a:646:UNK:CA	2.53	0.85
1:c:186:CYS:HA	1:c:191:THR:HB	1.58	0.85
1:c:234:SER:O	1:c:235:LYS:HE3	1.76	0.85
2:f:58:LYS:N	2:f:59:PRO:CD	2.40	0.85
2:B:58:LYS:N	2:B:59:PRO:CD	2.40	0.85
1:E:120:PHE:HE1	1:E:124:ASN:CG	1.85	0.85
2:F:57:GLY:C	2:F:59:PRO:CD	2.44	0.85
2:H:17:HIS:HE1	2:H:106:LEU:HA	1.42	0.85
1:I:15:ILE:HG21	1:I:95:GLU:CB	2.07	0.85
1:I:410:LEU:CA	1:I:426:TYR:CE1	2.56	0.85
2:J:58:LYS:N	2:J:59:PRO:CD	2.40	0.85
1:M:410:LEU:HD23	1:M:426:TYR:CD1	2.10	0.85
1:O:518:LEU:CD2	1:O:646:UNK:CA	2.53	0.85
1:Q:365:TYR:HD1	1:Q:405:LEU:HD22	1.41	0.85
2:R:17:HIS:HE1	2:R:106:LEU:HA	1.42	0.85
1:U:120:PHE:HE1	1:U:124:ASN:CG	1.85	0.85
2:V:57:GLY:C	2:V:59:PRO:CD	2.44	0.85
1:Y:15:ILE:CG2	1:Y:95:GLU:CB	2.54	0.85
1:Y:234:SER:O	1:Y:235:LYS:HE3	1.76	0.85

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:e:15:ILE:CG2	1:e:95:GLU:HB3	2.07	0.85
1:e:410:LEU:CB	1:e:423:PRO:HD2	1.96	0.85
1:E:410:LEU:HD22	1:E:423:PRO:O	1.77	0.84
1:I:489:MET:HB3	1:I:539:VAL:HB	1.58	0.84
1:K:15:ILE:CG2	1:K:95:GLU:HB3	2.07	0.84
1:K:410:LEU:CB	1:K:423:PRO:HD2	1.96	0.84
1:M:52:LYS:HD2	1:M:53:ASP:OD1	1.77	0.84
1:M:410:LEU:CA	1:M:426:TYR:CE1	2.56	0.84
1:O:410:LEU:HD23	1:O:426:TYR:CD1	2.10	0.84
2:T:17:HIS:HE1	2:T:106:LEU:HA	1.42	0.84
2:T:36:MET:O	2:T:40:GLN:HB2	1.77	0.84
1:U:15:ILE:CG2	1:U:95:GLU:CB	2.54	0.84
1:W:365:TYR:HD1	1:W:405:LEU:HD22	1.41	0.84
1:Y:178:ILE:HG21	1:Y:241:LEU:CD2	2.02	0.84
2:Z:17:HIS:HE1	2:Z:106:LEU:HA	1.42	0.84
2:Z:57:GLY:C	2:Z:59:PRO:CD	2.44	0.84
1:c:52:LYS:HD2	1:c:53:ASP:OD1	1.77	0.84
1:c:229:ARG:O	1:c:233:LYS:CE	2.24	0.84
1:e:229:ARG:O	1:e:233:LYS:CE	2.24	0.84
1:A:15:ILE:CG2	1:A:95:GLU:HB3	2.07	0.84
1:A:15:ILE:HG21	1:A:95:GLU:CB	2.07	0.84
1:A:410:LEU:CA	1:A:426:TYR:CE1	2.56	0.84
1:A:489:MET:HB3	1:A:539:VAL:HB	1.58	0.84
1:C:52:LYS:HD2	1:C:53:ASP:OD1	1.77	0.84
1:G:15:ILE:HG21	1:G:95:GLU:CB	2.07	0.84
1:G:279:THR:C	1:G:280:THR:CG2	2.49	0.84
1:I:15:ILE:CG2	1:I:95:GLU:HB3	2.07	0.84
1:K:489:MET:HB3	1:K:539:VAL:HB	1.58	0.84
1:M:15:ILE:CG2	1:M:95:GLU:HB3	2.07	0.84
1:M:234:SER:O	1:M:235:LYS:HE3	1.76	0.84
2:R:57:GLY:C	2:R:59:PRO:CD	2.44	0.84
1:S:15:ILE:HG21	1:S:95:GLU:CB	2.07	0.84
1:S:279:THR:C	1:S:280:THR:CG2	2.49	0.84
1:U:252:ALA:O	1:U:255:ALA:HB3	1.77	0.84
1:W:52:LYS:HD2	1:W:53:ASP:OD1	1.78	0.84
1:Y:365:TYR:HD1	1:Y:405:LEU:HD22	1.41	0.84
1:e:489:MET:HB3	1:e:539:VAL:HB	1.58	0.84
1:A:15:ILE:CG2	1:A:95:GLU:CB	2.54	0.84
1:A:171:GLN:HG2	1:A:176:PHE:HD1	1.39	0.84
1:A:183:LEU:HD22	1:A:186:CYS:HG	1.05	0.84
1:C:357:LEU:HG	1:C:430:LYS:HZ3	1.40	0.84

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:252:ALA:O	1:E:255:ALA:HB3	1.77	0.84
1:G:186:CYS:HA	1:G:191:THR:HB	1.58	0.84
2:H:36:MET:O	2:H:40:GLN:HB2	1.77	0.84
2:J:17:HIS:HE1	2:J:106:LEU:HA	1.42	0.84
1:M:120:PHE:HE1	1:M:124:ASN:CG	1.85	0.84
1:M:229:ARG:O	1:M:233:LYS:CE	2.24	0.84
1:O:15:ILE:CG2	1:O:95:GLU:HB3	2.07	0.84
1:O:178:ILE:HG21	1:O:241:LEU:CD2	2.02	0.84
1:Q:410:LEU:HD22	1:Q:423:PRO:O	1.77	0.84
1:S:12:TYR:HE2	1:S:77:VAL:HG11	1.37	0.84
1:S:186:CYS:HA	1:S:191:THR:HB	1.58	0.84
1:U:489:MET:HB3	1:U:539:VAL:HB	1.58	0.84
1:a:357:LEU:CD1	1:a:366:ARG:HD2	2.05	0.84
1:c:15:ILE:CG2	1:c:95:GLU:HB3	2.07	0.84
1:c:120:PHE:HE1	1:c:124:ASN:CG	1.85	0.84
1:c:171:GLN:HG2	1:c:176:PHE:HD1	1.39	0.84
2:f:17:HIS:HE1	2:f:106:LEU:HA	1.42	0.84
2:B:17:HIS:HE1	2:B:106:LEU:HA	1.42	0.84
1:G:120:PHE:HE1	1:G:124:ASN:CG	1.85	0.84
1:I:15:ILE:CG2	1:I:95:GLU:CB	2.54	0.84
2:L:17:HIS:HE1	2:L:106:LEU:HA	1.42	0.84
1:M:12:TYR:HE2	1:M:77:VAL:HG11	1.37	0.84
1:M:357:LEU:HG	1:M:430:LYS:HZ3	1.42	0.84
1:O:357:LEU:CD1	1:O:366:ARG:HD2	2.05	0.84
1:Q:15:ILE:CG2	1:Q:95:GLU:HB3	2.07	0.84
1:Q:120:PHE:HE1	1:Q:124:ASN:CG	1.85	0.84
1:S:15:ILE:CG2	1:S:95:GLU:HB3	2.07	0.84
2:V:17:HIS:HE1	2:V:106:LEU:HA	1.42	0.84
1:Y:120:PHE:HE1	1:Y:124:ASN:CG	1.85	0.84
1:Y:410:LEU:HD22	1:Y:423:PRO:O	1.77	0.84
1:a:15:ILE:CG2	1:a:95:GLU:HB3	2.07	0.84
1:a:186:CYS:HA	1:a:191:THR:HB	1.58	0.84
1:c:410:LEU:CA	1:c:426:TYR:CE1	2.56	0.84
1:A:252:ALA:O	1:A:255:ALA:HB3	1.77	0.84
1:E:489:MET:HB3	1:E:539:VAL:HB	1.58	0.84
1:G:15:ILE:CG2	1:G:95:GLU:HB3	2.07	0.84
1:G:171:GLN:HG2	1:G:176:PHE:HD1	1.40	0.84
1:I:252:ALA:O	1:I:255:ALA:HB3	1.77	0.84
1:K:186:CYS:HA	1:K:191:THR:HB	1.58	0.84
1:O:489:MET:HB3	1:O:539:VAL:HB	1.58	0.84
1:S:120:PHE:HE1	1:S:124:ASN:CG	1.85	0.84

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:S:410:LEU:HD22	1:S:423:PRO:O	1.77	0.84
1:U:257:ASN:C	1:U:258:LEU:HD13	2.03	0.84
1:Y:15:ILE:CG2	1:Y:95:GLU:HB3	2.07	0.84
2:b:17:HIS:HE1	2:b:106:LEU:HA	1.42	0.84
1:e:186:CYS:HA	1:e:191:THR:HB	1.58	0.84
1:e:257:ASN:C	1:e:258:LEU:HD13	2.03	0.84
1:C:15:ILE:HG21	1:C:95:GLU:CB	2.07	0.84
1:E:257:ASN:C	1:E:258:LEU:HD13	2.03	0.84
1:I:171:GLN:HG2	1:I:176:PHE:HD1	1.39	0.84
1:K:257:ASN:C	1:K:258:LEU:HD13	2.03	0.84
1:K:410:LEU:CA	1:K:426:TYR:CE1	2.56	0.84
1:M:410:LEU:HD22	1:M:423:PRO:O	1.77	0.84
1:O:186:CYS:HA	1:O:191:THR:HB	1.58	0.84
1:O:252:ALA:O	1:O:255:ALA:HB3	1.77	0.84
1:Q:12:TYR:HE2	1:Q:77:VAL:HG11	1.37	0.84
1:U:52:LYS:HD2	1:U:53:ASP:OD1	1.77	0.84
1:a:178:ILE:HG21	1:a:241:LEU:CD2	2.02	0.84
1:a:252:ALA:O	1:a:255:ALA:HB3	1.77	0.84
1:e:52:LYS:HD2	1:e:53:ASP:OD1	1.77	0.84
1:E:86:LYS:CE	1:E:89:MET:HE3	2.08	0.84
2:F:17:HIS:HE1	2:F:106:LEU:HA	1.42	0.84
1:G:12:TYR:HE2	1:G:77:VAL:HG11	1.37	0.84
1:G:410:LEU:HD22	1:G:423:PRO:O	1.77	0.84
1:M:203:ILE:CG2	1:M:237:TYR:OH	2.21	0.84
2:P:17:HIS:HE1	2:P:106:LEU:HA	1.42	0.84
1:Q:371:ARG:CD	1:Q:389:ILE:HD12	1.76	0.84
1:S:257:ASN:C	1:S:258:LEU:HD13	2.03	0.84
1:U:86:LYS:CE	1:U:89:MET:HE3	2.08	0.84
1:W:252:ALA:O	1:W:255:ALA:HB3	1.77	0.84
1:W:279:THR:HG21	1:Y:118:GLN:HE22	0.88	0.84
1:c:410:LEU:HD22	1:c:423:PRO:O	1.77	0.84
1:c:489:MET:HB3	1:c:539:VAL:HB	1.58	0.84
1:e:410:LEU:CA	1:e:426:TYR:CE1	2.56	0.84
1:C:252:ALA:O	1:C:255:ALA:HB3	1.77	0.84
1:E:52:LYS:HD2	1:E:53:ASP:OD1	1.77	0.84
1:E:360:LEU:HG	1:E:365:TYR:HB2	1.60	0.84
1:G:257:ASN:C	1:G:258:LEU:HD13	2.03	0.84
1:K:52:LYS:HD2	1:K:53:ASP:OD1	1.77	0.84
1:M:489:MET:HB3	1:M:539:VAL:HB	1.58	0.84
1:O:422:ILE:HG22	1:O:423:PRO:CD	1.78	0.84
2:P:58:LYS:N	2:P:59:PRO:CD	2.40	0.84

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Q:52:LYS:HD2	1:Q:53:ASP:OD1	1.77	0.84
1:Q:186:CYS:HA	1:Q:191:THR:HB	1.58	0.84
1:W:15:ILE:HG21	1:W:95:GLU:CB	2.07	0.84
1:a:422:ILE:HG22	1:a:423:PRO:CD	1.78	0.84
1:a:489:MET:HB3	1:a:539:VAL:HB	1.58	0.84
1:c:252:ALA:O	1:c:255:ALA:HB3	1.77	0.84
1:e:410:LEU:HD22	1:e:423:PRO:O	1.77	0.84
1:C:15:ILE:CG2	1:C:95:GLU:HB3	2.07	0.84
1:I:357:LEU:CG	1:I:430:LYS:CE	2.52	0.84
1:K:410:LEU:HD22	1:K:423:PRO:O	1.77	0.84
1:M:252:ALA:O	1:M:255:ALA:HB3	1.77	0.84
1:U:360:LEU:HG	1:U:365:TYR:HB2	1.60	0.84
1:W:257:ASN:C	1:W:258:LEU:HD13	2.03	0.84
1:Y:12:TYR:HE2	1:Y:77:VAL:HG11	1.37	0.84
1:Y:52:LYS:HD2	1:Y:53:ASP:OD1	1.77	0.84
1:Y:186:CYS:HA	1:Y:191:THR:HB	1.58	0.84
2:b:58:LYS:N	2:b:59:PRO:CD	2.40	0.84
1:A:357:LEU:CG	1:A:430:LYS:CE	2.52	0.84
1:C:257:ASN:C	1:C:258:LEU:HD13	2.03	0.84
1:C:279:THR:HG21	1:Q:118:GLN:HE22	0.88	0.84
1:G:15:ILE:HG21	1:G:95:GLU:HB2	1.60	0.84
1:G:410:LEU:CA	1:G:426:TYR:CE1	2.56	0.84
1:G:489:MET:HB3	1:G:539:VAL:HB	1.58	0.84
1:K:203:ILE:CG2	1:K:237:TYR:OH	2.21	0.84
1:Q:257:ASN:C	1:Q:258:LEU:HD13	2.03	0.84
2:R:58:LYS:N	2:R:59:PRO:CD	2.40	0.84
1:S:15:ILE:HG21	1:S:95:GLU:HB2	1.60	0.84
1:S:171:GLN:HG2	1:S:176:PHE:HD1	1.40	0.84
1:U:15:ILE:CG2	1:U:95:GLU:HB3	2.07	0.84
1:Y:15:ILE:HG21	1:Y:95:GLU:CB	2.07	0.84
1:c:12:TYR:HE2	1:c:77:VAL:HG11	1.37	0.84
2:d:58:LYS:N	2:d:59:PRO:CD	2.40	0.84
1:A:279:THR:C	1:A:280:THR:CG2	2.49	0.83
1:A:410:LEU:CB	1:A:423:PRO:HD2	1.96	0.83
1:C:410:LEU:CB	1:C:423:PRO:HD2	1.96	0.83
1:I:257:ASN:C	1:I:258:LEU:HD13	2.03	0.83
1:I:279:THR:C	1:I:280:THR:CG2	2.49	0.83
1:O:52:LYS:HD2	1:O:53:ASP:OD1	1.78	0.83
1:O:360:LEU:HG	1:O:365:TYR:HB2	1.60	0.83
1:O:365:TYR:HD1	1:O:405:LEU:HD22	1.41	0.83
1:O:410:LEU:HB2	1:O:423:PRO:CB	2.05	0.83

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:S:410:LEU:CA	1:S:426:TYR:CE1	2.56	0.83
1:S:489:MET:HB3	1:S:539:VAL:HB	1.58	0.83
1:W:15:ILE:CG2	1:W:95:GLU:HB3	2.07	0.83
1:Y:257:ASN:C	1:Y:258:LEU:HD13	2.03	0.83
1:a:257:ASN:C	1:a:258:LEU:HD13	2.03	0.83
1:a:360:LEU:HG	1:a:365:TYR:HB2	1.60	0.83
1:c:15:ILE:HG21	1:c:95:GLU:HB2	1.60	0.83
1:e:120:PHE:HE1	1:e:124:ASN:CG	1.85	0.83
1:A:357:LEU:HG	1:A:430:LYS:HZ3	1.44	0.83
1:C:86:LYS:CE	1:C:89:MET:HE3	2.08	0.83
1:C:178:ILE:HG21	1:C:241:LEU:CD2	2.02	0.83
1:C:186:CYS:HA	1:C:191:THR:HB	1.58	0.83
1:E:15:ILE:CG2	1:E:95:GLU:HB3	2.07	0.83
1:E:357:LEU:CD1	1:E:366:ARG:HD2	2.05	0.83
1:K:279:THR:C	1:K:280:THR:CG2	2.49	0.83
1:M:15:ILE:HG21	1:M:95:GLU:HB2	1.60	0.83
1:M:243:VAL:CG1	1:M:263:LEU:CD2	2.57	0.83
2:N:58:LYS:N	2:N:59:PRO:CD	2.40	0.83
1:O:257:ASN:C	1:O:258:LEU:HD13	2.03	0.83
1:Q:15:ILE:HG21	1:Q:95:GLU:CB	2.07	0.83
1:Q:243:VAL:CG1	1:Q:263:LEU:CD2	2.57	0.83
1:S:252:ALA:O	1:S:255:ALA:HB3	1.77	0.83
1:Y:243:VAL:CG1	1:Y:263:LEU:CD2	2.57	0.83
2:Z:58:LYS:N	2:Z:59:PRO:CD	2.40	0.83
1:c:15:ILE:HG21	1:c:95:GLU:CB	2.07	0.83
1:e:279:THR:C	1:e:280:THR:CG2	2.49	0.83
1:A:257:ASN:C	1:A:258:LEU:HD13	2.03	0.83
1:E:149:ILE:HG23	1:E:283:ILE:HG21	1.55	0.83
1:I:148:LEU:CD2	1:I:282:HIS:CD2	2.61	0.83
1:K:15:ILE:HG21	1:K:95:GLU:HB2	1.60	0.83
1:K:120:PHE:HE1	1:K:124:ASN:CG	1.85	0.83
1:M:257:ASN:C	1:M:258:LEU:HD13	2.03	0.83
1:M:371:ARG:CD	1:M:389:ILE:HD12	1.76	0.83
1:W:186:CYS:HA	1:W:191:THR:HB	1.58	0.83
1:W:360:LEU:HG	1:W:365:TYR:HB2	1.60	0.83
1:W:410:LEU:CB	1:W:423:PRO:HD2	1.96	0.83
1:Y:371:ARG:CD	1:Y:389:ILE:HD12	1.76	0.83
1:a:52:LYS:HD2	1:a:53:ASP:OD1	1.77	0.83
1:c:243:VAL:CG1	1:c:263:LEU:CD2	2.57	0.83
1:e:203:ILE:CG2	1:e:237:TYR:OH	2.21	0.83
1:A:148:LEU:CD2	1:A:282:HIS:CD2	2.61	0.83

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:357:LEU:CG	1:A:430:LYS:HZ3	1.92	0.83
2:D:58:LYS:N	2:D:59:PRO:CD	2.40	0.83
1:G:118:GLN:HE22	1:I:279:THR:HG21	0.88	0.83
1:G:252:ALA:O	1:G:255:ALA:HB3	1.77	0.83
2:H:31:TYR:HB3	2:H:68:ARG:HH21	1.42	0.83
1:S:19:PHE:HZ	1:S:92:ILE:HD13	1.44	0.83
2:T:31:TYR:HB3	2:T:68:ARG:HH21	1.42	0.83
1:U:357:LEU:CD1	1:U:366:ARG:HD2	2.05	0.83
1:W:86:LYS:CE	1:W:89:MET:HE3	2.08	0.83
1:a:365:TYR:HD1	1:a:405:LEU:HD22	1.41	0.83
1:a:410:LEU:HB2	1:a:423:PRO:CB	2.05	0.83
1:c:257:ASN:C	1:c:258:LEU:HD13	2.03	0.83
1:e:87:PHE:HD2	2:f:83:GLY:HA2	1.43	0.83
1:C:360:LEU:HG	1:C:365:TYR:HB2	1.60	0.83
1:G:19:PHE:HZ	1:G:92:ILE:HD13	1.44	0.83
1:G:87:PHE:HD2	2:H:83:GLY:HA2	1.43	0.83
1:G:148:LEU:CD2	1:G:282:HIS:CD2	2.61	0.83
1:K:148:LEU:CD2	1:K:282:HIS:CD2	2.61	0.83
1:M:15:ILE:HG21	1:M:95:GLU:CB	2.07	0.83
1:S:87:PHE:HD2	2:T:83:GLY:HA2	1.43	0.83
1:c:371:ARG:CD	1:c:389:ILE:HD12	1.76	0.83
1:e:15:ILE:HG21	1:e:95:GLU:HB2	1.60	0.83
1:A:279:THR:HG21	1:S:118:GLN:HE22	0.88	0.83
1:A:389:ILE:HD12	1:A:389:ILE:O	1.79	0.83
1:C:389:ILE:HD12	1:C:389:ILE:O	1.79	0.83
2:F:31:TYR:HB3	2:F:68:ARG:HH21	1.42	0.83
1:I:47:HIS:O	1:I:50:MET:CB	2.27	0.83
1:K:87:PHE:HD2	2:L:83:GLY:HA2	1.43	0.83
1:Q:148:LEU:CD2	1:Q:282:HIS:HD2	1.92	0.83
1:S:389:ILE:HD12	1:S:389:ILE:O	1.79	0.83
2:T:58:LYS:N	2:T:59:PRO:CD	2.40	0.83
2:V:31:TYR:HB3	2:V:68:ARG:HH21	1.42	0.83
1:W:178:ILE:HG21	1:W:241:LEU:CD2	2.02	0.83
1:W:389:ILE:HD12	1:W:389:ILE:O	1.79	0.83
2:X:58:LYS:N	2:X:59:PRO:CD	2.40	0.83
1:a:148:LEU:CD2	1:a:282:HIS:CD2	2.61	0.83
1:e:148:LEU:CD2	1:e:282:HIS:CD2	2.61	0.83
1:A:47:HIS:O	1:A:50:MET:CB	2.27	0.83
1:C:118:GLN:HE22	1:E:279:THR:HG21	0.88	0.83
1:E:19:PHE:HZ	1:E:92:ILE:HD13	1.44	0.83
1:E:389:ILE:HD12	1:E:389:ILE:O	1.79	0.83

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:F:58:LYS:N	2:F:59:PRO:CD	2.40	0.83
1:G:389:ILE:HD12	1:G:389:ILE:O	1.79	0.83
2:H:58:LYS:N	2:H:59:PRO:CD	2.40	0.83
1:I:389:ILE:HD12	1:I:389:ILE:O	1.79	0.83
1:I:410:LEU:CB	1:I:423:PRO:HD2	1.96	0.83
1:O:148:LEU:CD2	1:O:282:HIS:CD2	2.61	0.83
1:S:86:LYS:CE	1:S:89:MET:HE3	2.08	0.83
1:S:148:LEU:CD2	1:S:282:HIS:CD2	2.61	0.83
1:U:19:PHE:HZ	1:U:92:ILE:HD13	1.44	0.83
2:V:58:LYS:N	2:V:59:PRO:CD	2.40	0.83
1:Y:148:LEU:CD2	1:Y:282:HIS:HD2	1.92	0.83
1:a:410:LEU:HD22	1:a:423:PRO:O	1.77	0.83
2:b:31:TYR:HB3	2:b:68:ARG:HH21	1.42	0.83
1:A:243:VAL:CG1	1:A:263:LEU:CD2	2.57	0.83
1:C:148:LEU:CD2	1:C:282:HIS:HD2	1.92	0.83
1:I:243:VAL:CG1	1:I:263:LEU:CD2	2.57	0.83
1:I:357:LEU:HG	1:I:430:LYS:HZ3	1.44	0.83
1:M:74:GLN:O	1:M:78:GLU:CG	2.27	0.83
1:Q:87:PHE:HD2	2:R:83:GLY:HA2	1.43	0.83
1:Q:360:LEU:HG	1:Q:365:TYR:HB2	1.60	0.83
1:U:148:LEU:CD2	1:U:282:HIS:CD2	2.61	0.83
1:U:279:THR:HG21	1:W:118:GLN:HE22	0.88	0.83
1:U:389:ILE:HD12	1:U:389:ILE:O	1.79	0.83
1:W:148:LEU:CD2	1:W:282:HIS:CD2	2.61	0.83
1:W:148:LEU:CD2	1:W:282:HIS:HD2	1.92	0.83
1:Y:87:PHE:HD2	2:Z:83:GLY:HA2	1.43	0.83
1:Y:357:LEU:CD1	1:Y:366:ARG:HD2	2.05	0.83
1:Y:389:ILE:HD12	1:Y:389:ILE:O	1.79	0.83
1:c:148:LEU:CD2	1:c:282:HIS:CD2	2.61	0.83
1:A:327:ILE:HG21	1:A:341:TRP:CZ3	2.14	0.83
1:A:410:LEU:HD22	1:A:423:PRO:O	1.77	0.83
1:C:243:VAL:CG1	1:C:263:LEU:CD2	2.57	0.83
1:E:243:VAL:CG1	1:E:263:LEU:CD2	2.57	0.83
1:G:86:LYS:CE	1:G:89:MET:HE3	2.08	0.83
1:I:12:TYR:HE2	1:I:77:VAL:HG11	1.37	0.83
1:K:47:HIS:O	1:K:50:MET:CB	2.27	0.83
1:K:210:ARG:HB2	1:K:210:ARG:HH11	1.44	0.83
1:K:252:ALA:O	1:K:255:ALA:HB3	1.77	0.83
1:K:327:ILE:HG21	1:K:341:TRP:CZ3	2.14	0.83
1:M:87:PHE:HD2	2:N:83:GLY:HA2	1.43	0.83
1:M:148:LEU:CD2	1:M:282:HIS:CD2	2.61	0.83

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:242:LEU:HD21	1:M:244:LEU:CD1	2.09	0.83
1:O:74:GLN:O	1:O:78:GLU:CG	2.27	0.83
1:O:148:LEU:CD2	1:O:282:HIS:HD2	1.92	0.83
1:O:410:LEU:HD22	1:O:423:PRO:O	1.77	0.83
2:P:31:TYR:HB3	2:P:68:ARG:HH21	1.42	0.83
1:Q:74:GLN:O	1:Q:78:GLU:CG	2.27	0.83
1:Q:149:ILE:HG23	1:Q:283:ILE:HG21	1.55	0.83
1:Q:178:ILE:HG22	1:Q:241:LEU:CD2	2.01	0.83
1:Q:389:ILE:HD12	1:Q:389:ILE:O	1.79	0.83
1:U:243:VAL:CG1	1:U:263:LEU:CD2	2.57	0.83
1:Y:74:GLN:O	1:Y:78:GLU:CG	2.27	0.83
1:a:74:GLN:O	1:a:78:GLU:CG	2.27	0.83
1:c:74:GLN:O	1:c:78:GLU:CG	2.27	0.83
2:d:17:HIS:HE1	2:d:106:LEU:HA	1.42	0.83
1:e:47:HIS:O	1:e:50:MET:CB	2.27	0.83
1:e:243:VAL:CG1	1:e:263:LEU:CD2	2.57	0.83
1:A:15:ILE:HG21	1:A:95:GLU:HB2	1.60	0.83
1:A:19:PHE:HZ	1:A:92:ILE:HD13	1.44	0.83
1:C:19:PHE:HZ	1:C:92:ILE:HD13	1.44	0.83
1:C:148:LEU:CD2	1:C:282:HIS:CD2	2.61	0.83
1:E:148:LEU:CD2	1:E:282:HIS:CD2	2.61	0.83
1:E:242:LEU:HD21	1:E:244:LEU:CD1	2.09	0.83
1:E:327:ILE:HG21	1:E:341:TRP:CZ3	2.14	0.83
1:I:327:ILE:HG21	1:I:341:TRP:CZ3	2.14	0.83
1:K:243:VAL:CG1	1:K:263:LEU:CD2	2.57	0.83
1:M:403:ASN:O	1:M:406:HIS:HB3	1.79	0.83
1:O:232:LEU:HD21	1:O:260:CYS:SG	2.19	0.83
1:Q:357:LEU:CD1	1:Q:366:ARG:HD2	2.05	0.83
1:Q:495:ARG:HH22	1:Q:549:ILE:CG2	1.92	0.83
1:U:186:CYS:HA	1:U:191:THR:HB	1.58	0.83
1:U:327:ILE:HG21	1:U:341:TRP:CZ3	2.14	0.83
1:W:47:HIS:O	1:W:50:MET:CB	2.27	0.83
1:Y:495:ARG:HH22	1:Y:549:ILE:CG2	1.92	0.83
1:c:242:LEU:HD21	1:c:244:LEU:CD1	2.09	0.83
1:c:279:THR:C	1:c:280:THR:CG2	2.49	0.83
1:c:403:ASN:O	1:c:406:HIS:HB3	1.79	0.83
1:e:210:ARG:HB2	1:e:210:ARG:HH11	1.44	0.83
1:e:252:ALA:O	1:e:255:ALA:HB3	1.77	0.83
1:e:327:ILE:HG21	1:e:341:TRP:CZ3	2.14	0.83
1:A:12:TYR:HE2	1:A:77:VAL:HG11	1.37	0.82
1:A:242:LEU:HD21	1:A:244:LEU:CD1	2.09	0.82

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:47:HIS:O	1:C:50:MET:CB	2.27	0.82
2:D:57:GLY:C	2:D:59:PRO:CD	2.44	0.82
1:I:19:PHE:HZ	1:I:92:ILE:HD13	1.44	0.82
1:I:186:CYS:HA	1:I:191:THR:HB	1.58	0.82
1:I:242:LEU:HD21	1:I:244:LEU:CD1	2.09	0.82
2:N:17:HIS:HE1	2:N:106:LEU:HA	1.42	0.82
1:U:242:LEU:HD21	1:U:244:LEU:CD1	2.09	0.82
1:W:243:VAL:CG1	1:W:263:LEU:CD2	2.57	0.82
1:W:279:THR:C	1:W:280:THR:CG2	2.49	0.82
1:a:148:LEU:CD2	1:a:282:HIS:HD2	1.92	0.82
1:a:232:LEU:HD21	1:a:260:CYS:SG	2.19	0.82
1:A:186:CYS:HA	1:A:191:THR:HB	1.58	0.82
1:A:495:ARG:HH22	1:A:549:ILE:CG2	1.92	0.82
1:C:149:ILE:HG23	1:C:283:ILE:HG21	1.55	0.82
1:C:357:LEU:CD1	1:C:430:LYS:HZ3	1.92	0.82
2:D:17:HIS:HE1	2:D:106:LEU:HA	1.42	0.82
1:G:47:HIS:O	1:G:50:MET:CB	2.27	0.82
1:I:15:ILE:HG21	1:I:95:GLU:HB2	1.60	0.82
1:I:410:LEU:HD22	1:I:423:PRO:O	1.77	0.82
1:I:495:ARG:HH22	1:I:549:ILE:CG2	1.92	0.82
1:M:279:THR:C	1:M:280:THR:CG2	2.49	0.82
1:Q:47:HIS:O	1:Q:50:MET:CB	2.27	0.82
1:W:19:PHE:HZ	1:W:92:ILE:HD13	1.44	0.82
1:W:74:GLN:O	1:W:78:GLU:CG	2.27	0.82
1:Y:47:HIS:O	1:Y:50:MET:CB	2.27	0.82
1:c:87:PHE:HD2	2:d:83:GLY:HA2	1.43	0.82
1:c:495:ARG:HH22	1:c:549:ILE:CG2	1.92	0.82
1:e:242:LEU:HD21	1:e:244:LEU:CD1	2.09	0.82
1:A:232:LEU:HD21	1:A:260:CYS:SG	2.20	0.82
1:C:74:GLN:O	1:C:78:GLU:CG	2.27	0.82
1:E:148:LEU:CD2	1:E:282:HIS:HD2	1.92	0.82
1:E:186:CYS:HA	1:E:191:THR:HB	1.58	0.82
1:I:232:LEU:HD21	1:I:260:CYS:SG	2.20	0.82
1:K:242:LEU:HD21	1:K:244:LEU:CD1	2.09	0.82
1:M:495:ARG:HH22	1:M:549:ILE:CG2	1.92	0.82
1:S:52:LYS:HD2	1:S:53:ASP:OD1	1.78	0.82
1:U:148:LEU:CD2	1:U:282:HIS:HD2	1.92	0.82
2:X:17:HIS:HE1	2:X:106:LEU:HA	1.42	0.82
1:Y:148:LEU:CD2	1:Y:282:HIS:CD2	2.61	0.82
1:Y:371:ARG:CB	1:Y:389:ILE:CG1	2.56	0.82
1:Y:403:ASN:O	1:Y:406:HIS:HB3	1.79	0.82

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:a:242:LEU:HD21	1:a:244:LEU:CD1	2.09	0.82
2:B:31:TYR:HB3	2:B:68:ARG:HH21	1.42	0.82
1:C:210:ARG:HB2	1:C:210:ARG:HH11	1.44	0.82
1:C:279:THR:C	1:C:280:THR:CG2	2.49	0.82
1:E:210:ARG:HH11	1:E:210:ARG:HB2	1.44	0.82
1:E:495:ARG:HH22	1:E:549:ILE:CG2	1.92	0.82
1:O:242:LEU:HD21	1:O:244:LEU:CD1	2.09	0.82
1:Q:148:LEU:CD2	1:Q:282:HIS:CD2	2.61	0.82
1:Q:371:ARG:CB	1:Q:389:ILE:CG1	2.56	0.82
1:Q:403:ASN:O	1:Q:406:HIS:HB3	1.79	0.82
1:S:47:HIS:O	1:S:50:MET:CB	2.27	0.82
1:S:495:ARG:HH22	1:S:549:ILE:CG2	1.92	0.82
2:X:57:GLY:C	2:X:59:PRO:CD	2.44	0.82
1:e:422:ILE:HG22	1:e:423:PRO:CD	1.78	0.82
1:A:52:LYS:HD2	1:A:53:ASP:OD1	1.77	0.82
1:G:52:LYS:HD2	1:G:53:ASP:OD1	1.77	0.82
1:G:74:GLN:O	1:G:78:GLU:CG	2.27	0.82
1:G:495:ARG:HH22	1:G:549:ILE:CG2	1.92	0.82
1:K:74:GLN:O	1:K:78:GLU:CG	2.27	0.82
1:K:422:ILE:HG22	1:K:423:PRO:CD	1.78	0.82
1:O:243:VAL:CG1	1:O:263:LEU:CD2	2.57	0.82
1:O:389:ILE:HD12	1:O:389:ILE:O	1.79	0.82
1:O:495:ARG:HH22	1:O:549:ILE:CG2	1.92	0.82
1:Q:210:ARG:HB2	1:Q:210:ARG:HH11	1.44	0.82
1:S:74:GLN:O	1:S:78:GLU:CG	2.27	0.82
1:U:87:PHE:HD2	2:V:83:GLY:HA2	1.43	0.82
1:U:210:ARG:HB2	1:U:210:ARG:HH11	1.44	0.82
1:W:210:ARG:HB2	1:W:210:ARG:HH11	1.44	0.82
1:W:232:LEU:HD21	1:W:260:CYS:SG	2.19	0.82
1:W:403:ASN:O	1:W:406:HIS:HB3	1.79	0.82
1:a:403:ASN:O	1:a:406:HIS:HB3	1.79	0.82
1:C:232:LEU:HD21	1:C:260:CYS:SG	2.19	0.82
1:C:357:LEU:CD1	1:C:366:ARG:HD2	2.05	0.82
1:G:353:ILE:CG2	1:G:426:TYR:CB	2.56	0.82
1:I:353:ILE:CG2	1:I:426:TYR:CB	2.56	0.82
1:I:357:LEU:CG	1:I:430:LYS:HZ3	1.93	0.82
2:J:31:TYR:HB3	2:J:68:ARG:HH21	1.42	0.82
1:K:410:LEU:HD21	1:K:427:LEU:HA	1.62	0.82
1:M:148:LEU:CD2	1:M:282:HIS:HD2	1.92	0.82
1:M:353:ILE:CG2	1:M:426:TYR:CB	2.56	0.82
1:O:210:ARG:HB2	1:O:210:ARG:HH11	1.44	0.82

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:O:353:ILE:CG2	1:O:426:TYR:CB	2.56	0.82
1:O:403:ASN:O	1:O:406:HIS:HB3	1.79	0.82
1:S:148:LEU:CD2	1:S:282:HIS:HD2	1.92	0.82
1:U:495:ARG:HH22	1:U:549:ILE:CG2	1.92	0.82
1:W:149:ILE:HG23	1:W:283:ILE:HG21	1.55	0.82
1:W:242:LEU:HD21	1:W:244:LEU:CD1	2.09	0.82
1:W:357:LEU:CD1	1:W:366:ARG:HD2	2.05	0.82
1:a:243:VAL:CG1	1:a:263:LEU:CD2	2.57	0.82
1:a:495:ARG:HH22	1:a:549:ILE:CG2	1.92	0.82
1:c:232:LEU:HD21	1:c:260:CYS:SG	2.20	0.82
1:c:360:LEU:HG	1:c:365:TYR:HB2	1.60	0.82
1:e:74:GLN:O	1:e:78:GLU:CG	2.27	0.82
1:e:389:ILE:HD12	1:e:389:ILE:O	1.79	0.82
1:e:518:LEU:CD2	1:e:646:UNK:C	2.52	0.82
1:A:148:LEU:CD2	1:A:282:HIS:HD2	1.92	0.82
1:A:353:ILE:CG2	1:A:426:TYR:CB	2.56	0.82
1:C:403:ASN:O	1:C:406:HIS:HB3	1.79	0.82
1:G:148:LEU:CD2	1:G:282:HIS:HD2	1.92	0.82
1:K:232:LEU:HD21	1:K:260:CYS:SG	2.19	0.82
1:M:232:LEU:HD21	1:M:260:CYS:SG	2.20	0.82
1:M:360:LEU:HG	1:M:365:TYR:HB2	1.60	0.82
1:Q:19:PHE:HZ	1:Q:92:ILE:HD13	1.44	0.82
1:S:353:ILE:CG2	1:S:426:TYR:CB	2.56	0.82
1:U:403:ASN:O	1:U:406:HIS:HB3	1.79	0.82
1:Y:210:ARG:HB2	1:Y:210:ARG:HH11	1.44	0.82
1:a:389:ILE:HD12	1:a:389:ILE:O	1.79	0.82
1:e:410:LEU:HD21	1:e:427:LEU:HA	1.62	0.82
1:C:242:LEU:HD21	1:C:244:LEU:CD1	2.09	0.82
1:G:327:ILE:HG21	1:G:341:TRP:CZ3	2.14	0.82
1:I:52:LYS:HD2	1:I:53:ASP:OD1	1.77	0.82
1:I:148:LEU:CD2	1:I:282:HIS:HD2	1.92	0.82
1:I:210:ARG:HH11	1:I:210:ARG:HB2	1.44	0.82
1:K:518:LEU:CD2	1:K:646:UNK:C	2.52	0.82
1:M:178:ILE:HG21	1:M:241:LEU:CD2	2.02	0.82
1:O:327:ILE:HG21	1:O:341:TRP:CZ3	2.14	0.82
1:Q:242:LEU:HD21	1:Q:244:LEU:CD1	2.09	0.82
2:R:31:TYR:HB3	2:R:68:ARG:HH21	1.42	0.82
1:U:47:HIS:O	1:U:50:MET:CB	2.27	0.82
1:a:327:ILE:HG21	1:a:341:TRP:CZ3	2.14	0.82
1:a:353:ILE:CG2	1:a:426:TYR:CB	2.56	0.82
1:c:148:LEU:CD2	1:c:282:HIS:HD2	1.92	0.82

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:c:353:ILE:CG2	1:c:426:TYR:CB	2.56	0.82
1:e:19:PHE:HZ	1:e:92:ILE:HD13	1.44	0.82
1:A:74:GLN:O	1:A:78:GLU:CG	2.27	0.82
1:C:87:PHE:HD2	2:D:83:GLY:HA2	1.43	0.82
1:E:403:ASN:O	1:E:406:HIS:HB3	1.79	0.82
1:G:210:ARG:HB2	1:G:210:ARG:HH11	1.44	0.82
1:K:389:ILE:HD12	1:K:389:ILE:O	1.79	0.82
1:M:357:LEU:CD1	1:M:366:ARG:CD	2.54	0.82
1:M:389:ILE:HD12	1:M:389:ILE:O	1.79	0.82
1:O:371:ARG:O	1:O:374:VAL:HG13	1.80	0.82
1:Q:252:ALA:O	1:Q:255:ALA:HB3	1.77	0.82
1:Q:353:ILE:CG2	1:Q:426:TYR:CB	2.56	0.82
1:S:210:ARG:HB2	1:S:210:ARG:HH11	1.44	0.82
1:Y:19:PHE:HZ	1:Y:92:ILE:HD13	1.44	0.82
1:a:210:ARG:HB2	1:a:210:ARG:HH11	1.44	0.82
1:a:371:ARG:O	1:a:374:VAL:HG13	1.80	0.82
1:e:148:LEU:CD2	1:e:282:HIS:HD2	1.92	0.82
1:e:232:LEU:HD21	1:e:260:CYS:SG	2.19	0.82
1:A:357:LEU:CD1	1:A:366:ARG:HD2	2.05	0.82
2:D:31:TYR:HB3	2:D:68:ARG:HH21	1.42	0.82
1:E:47:HIS:O	1:E:50:MET:CB	2.27	0.82
1:E:232:LEU:HD21	1:E:260:CYS:SG	2.20	0.82
1:G:242:LEU:HD21	1:G:244:LEU:CD1	2.09	0.82
1:I:74:GLN:O	1:I:78:GLU:CG	2.27	0.82
1:I:371:ARG:O	1:I:374:VAL:HG13	1.80	0.82
1:K:19:PHE:HZ	1:K:92:ILE:HD13	1.44	0.82
1:K:357:LEU:CG	1:K:430:LYS:HZ3	1.93	0.82
1:S:242:LEU:HD21	1:S:244:LEU:CD1	2.09	0.82
1:S:279:THR:HG21	1:U:118:GLN:HE22	0.88	0.82
1:S:327:ILE:HG21	1:S:341:TRP:CZ3	2.14	0.82
1:Y:242:LEU:HD21	1:Y:244:LEU:CD1	2.09	0.82
1:Y:252:ALA:O	1:Y:255:ALA:HB3	1.77	0.82
2:d:31:TYR:HB3	2:d:68:ARG:HH21	1.42	0.82
2:f:31:TYR:HB3	2:f:68:ARG:HH21	1.42	0.82
1:A:210:ARG:HH11	1:A:210:ARG:HB2	1.44	0.81
1:A:371:ARG:O	1:A:374:VAL:HG13	1.80	0.81
1:A:403:ASN:O	1:A:406:HIS:HB3	1.79	0.81
1:C:15:ILE:HG21	1:C:95:GLU:HB2	1.60	0.81
1:C:495:ARG:HH22	1:C:549:ILE:CG2	1.92	0.81
1:E:410:LEU:CA	1:E:426:TYR:CE1	2.56	0.81
1:I:403:ASN:O	1:I:406:HIS:HB3	1.79	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:148:LEU:CD2	1:K:282:HIS:HD2	1.92	0.81
1:O:10:TYR:HD1	1:O:107:ILE:HD13	1.45	0.81
1:O:47:HIS:O	1:O:50:MET:CB	2.27	0.81
1:O:203:ILE:CG2	1:O:237:TYR:OH	2.21	0.81
1:U:232:LEU:HD21	1:U:260:CYS:SG	2.20	0.81
1:W:15:ILE:HG21	1:W:95:GLU:HB2	1.60	0.81
1:W:495:ARG:HH22	1:W:549:ILE:CG2	1.92	0.81
2:X:31:TYR:HB3	2:X:68:ARG:HH21	1.42	0.81
1:Y:353:ILE:CG2	1:Y:426:TYR:CB	2.56	0.81
2:Z:31:TYR:HB3	2:Z:68:ARG:HH21	1.42	0.81
1:c:178:ILE:HG21	1:c:241:LEU:CD2	2.02	0.81
1:c:210:ARG:HB2	1:c:210:ARG:HH11	1.44	0.81
1:c:327:ILE:HG21	1:c:341:TRP:CZ3	2.14	0.81
1:c:389:ILE:HD12	1:c:389:ILE:O	1.79	0.81
1:E:74:GLN:O	1:E:78:GLU:CG	2.27	0.81
1:E:118:GLN:HE22	1:G:279:THR:HG21	0.88	0.81
1:E:371:ARG:O	1:E:374:VAL:HG13	1.80	0.81
1:G:243:VAL:CG1	1:G:263:LEU:CD2	2.57	0.81
1:I:203:ILE:CG2	1:I:237:TYR:OH	2.21	0.81
1:I:518:LEU:CD2	1:I:646:UNK:C	2.52	0.81
2:L:31:TYR:HB3	2:L:68:ARG:HH21	1.42	0.81
2:L:88:ASN:O	2:L:92:ASN:ND2	2.13	0.81
1:M:210:ARG:HB2	1:M:210:ARG:HH11	1.44	0.81
1:M:327:ILE:HG21	1:M:341:TRP:CZ3	2.14	0.81
1:O:357:LEU:CD1	1:O:366:ARG:CD	2.54	0.81
1:S:403:ASN:O	1:S:406:HIS:HB3	1.79	0.81
1:U:371:ARG:O	1:U:374:VAL:HG13	1.80	0.81
1:W:87:PHE:HD2	2:X:83:GLY:HA2	1.43	0.81
1:W:327:ILE:HG21	1:W:341:TRP:CZ3	2.14	0.81
1:a:10:TYR:HD1	1:a:107:ILE:HD13	1.45	0.81
1:a:47:HIS:O	1:a:50:MET:CB	2.27	0.81
1:c:47:HIS:O	1:c:50:MET:CB	2.27	0.81
1:c:357:LEU:CD1	1:c:366:ARG:CD	2.54	0.81
2:f:88:ASN:O	2:f:92:ASN:ND2	2.13	0.81
1:A:518:LEU:CD2	1:A:646:UNK:C	2.52	0.81
1:C:327:ILE:HG21	1:C:341:TRP:CZ3	2.14	0.81
1:C:353:ILE:CG2	1:C:426:TYR:CB	2.56	0.81
1:C:371:ARG:CB	1:C:389:ILE:CG1	2.56	0.81
1:E:184:LYS:O	1:E:185:ASN:O	1.99	0.81
1:G:371:ARG:O	1:G:374:VAL:HG13	1.80	0.81
1:G:410:LEU:CB	1:G:423:PRO:HD2	1.96	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:247:VAL:HG21	1:I:264:LEU:HD13	1.63	0.81
1:K:365:TYR:HH	1:K:404:LYS:HG2	1.40	0.81
1:M:47:HIS:O	1:M:50:MET:CB	2.27	0.81
1:M:518:LEU:CD2	1:M:646:UNK:C	2.52	0.81
2:N:31:TYR:HB3	2:N:68:ARG:HH21	1.42	0.81
1:O:15:ILE:HG21	1:O:95:GLU:HB2	1.60	0.81
2:P:88:ASN:O	2:P:92:ASN:ND2	2.13	0.81
1:Q:232:LEU:HD21	1:Q:260:CYS:SG	2.20	0.81
1:Q:360:LEU:HD11	1:Q:405:LEU:HD21	1.62	0.81
1:S:243:VAL:CG1	1:S:263:LEU:CD2	2.57	0.81
1:S:371:ARG:O	1:S:374:VAL:HG13	1.80	0.81
1:S:410:LEU:CB	1:S:423:PRO:HD2	1.96	0.81
1:U:74:GLN:O	1:U:78:GLU:CG	2.27	0.81
1:U:410:LEU:CB	1:U:423:PRO:HD2	1.96	0.81
1:U:410:LEU:CA	1:U:426:TYR:CE1	2.56	0.81
1:W:184:LYS:O	1:W:185:ASN:O	1.99	0.81
1:W:371:ARG:CB	1:W:389:ILE:CG1	2.56	0.81
1:Y:15:ILE:HG21	1:Y:95:GLU:HB2	1.60	0.81
2:b:88:ASN:O	2:b:92:ASN:ND2	2.13	0.81
1:c:410:LEU:HD21	1:c:427:LEU:HA	1.62	0.81
1:c:518:LEU:CD2	1:c:646:UNK:C	2.52	0.81
1:A:247:VAL:HG21	1:A:264:LEU:HD13	1.63	0.81
2:B:88:ASN:O	2:B:92:ASN:ND2	2.13	0.81
1:C:184:LYS:O	1:C:185:ASN:O	1.99	0.81
1:C:371:ARG:O	1:C:374:VAL:HG13	1.80	0.81
1:E:410:LEU:CB	1:E:423:PRO:HD2	1.96	0.81
1:G:403:ASN:O	1:G:406:HIS:HB3	1.79	0.81
1:K:353:ILE:CG2	1:K:426:TYR:CB	2.56	0.81
1:K:403:ASN:O	1:K:406:HIS:HB3	1.79	0.81
1:K:495:ARG:HH22	1:K:549:ILE:CG2	1.92	0.81
1:Q:15:ILE:HG21	1:Q:95:GLU:HB2	1.60	0.81
1:Q:327:ILE:HG21	1:Q:341:TRP:CZ3	2.14	0.81
1:S:232:LEU:HD21	1:S:260:CYS:SG	2.19	0.81
1:U:184:LYS:O	1:U:185:ASN:O	1.99	0.81
1:W:371:ARG:O	1:W:374:VAL:HG13	1.80	0.81
1:Y:232:LEU:HD21	1:Y:260:CYS:SG	2.20	0.81
1:Y:360:LEU:HD11	1:Y:405:LEU:HD21	1.62	0.81
1:a:15:ILE:HG21	1:a:95:GLU:HB2	1.60	0.81
1:a:203:ILE:CG2	1:a:237:TYR:OH	2.21	0.81
1:a:357:LEU:CD1	1:a:366:ARG:CD	2.54	0.81
1:c:371:ARG:O	1:c:374:VAL:HG13	1.80	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:203:ILE:CG2	1:A:237:TYR:OH	2.21	0.81
1:C:166:LEU:HD23	1:C:167:SER:HA	1.63	0.81
1:E:247:VAL:HG21	1:E:264:LEU:HD13	1.63	0.81
2:J:88:ASN:O	2:J:92:ASN:ND2	2.13	0.81
1:K:104:ARG:CA	1:K:107:ILE:HG22	2.11	0.81
1:K:247:VAL:HG21	1:K:264:LEU:HD13	1.63	0.81
1:K:357:LEU:HG	1:K:430:LYS:HZ3	1.44	0.81
1:M:172:CYS:SG	1:M:176:PHE:CZ	2.73	0.81
1:M:365:TYR:HD1	1:M:405:LEU:HD22	1.41	0.81
1:M:410:LEU:HD21	1:M:427:LEU:HA	1.62	0.81
1:O:19:PHE:HZ	1:O:92:ILE:HD13	1.44	0.81
1:O:104:ARG:CA	1:O:107:ILE:HG22	2.11	0.81
1:O:410:LEU:HD21	1:O:427:LEU:HA	1.62	0.81
1:S:104:ARG:CA	1:S:107:ILE:HG22	2.11	0.81
1:U:247:VAL:HG21	1:U:264:LEU:HD13	1.63	0.81
1:W:166:LEU:HD23	1:W:167:SER:HA	1.63	0.81
1:W:353:ILE:CG2	1:W:426:TYR:CB	2.56	0.81
1:W:360:LEU:HD11	1:W:405:LEU:HD21	1.62	0.81
1:Y:327:ILE:HG21	1:Y:341:TRP:CZ3	2.14	0.81
1:e:104:ARG:CA	1:e:107:ILE:HG22	2.11	0.81
1:e:247:VAL:HG21	1:e:264:LEU:HD13	1.63	0.81
1:e:403:ASN:O	1:e:406:HIS:HB3	1.79	0.81
1:e:495:ARG:HH22	1:e:549:ILE:CG2	1.92	0.81
2:B:76:LEU:O	2:B:80:THR:HG22	1.81	0.81
1:C:10:TYR:HD1	1:C:107:ILE:HD13	1.45	0.81
1:C:104:ARG:CA	1:C:107:ILE:HG22	2.11	0.81
1:C:235:LYS:HA	1:C:235:LYS:CE	2.11	0.81
1:C:360:LEU:HD11	1:C:405:LEU:HD21	1.62	0.81
1:E:15:ILE:HG21	1:E:95:GLU:HB2	1.60	0.81
1:E:371:ARG:CD	1:E:389:ILE:HD12	1.76	0.81
1:G:104:ARG:CA	1:G:107:ILE:HG22	2.11	0.81
1:G:232:LEU:HD21	1:G:260:CYS:SG	2.19	0.81
1:I:487:PHE:HB2	1:I:489:MET:HE2	1.63	0.81
2:J:76:LEU:O	2:J:80:THR:HG22	1.81	0.81
1:M:86:LYS:CE	1:M:89:MET:HE1	2.11	0.81
1:M:371:ARG:O	1:M:374:VAL:HG13	1.80	0.81
1:U:10:TYR:HD1	1:U:107:ILE:HD13	1.45	0.81
1:W:235:LYS:HA	1:W:235:LYS:CE	2.11	0.81
1:Y:365:TYR:HH	1:Y:404:LYS:HG2	1.44	0.81
1:a:104:ARG:CA	1:a:107:ILE:HG22	2.11	0.81
1:a:153:LEU:HD21	1:a:267:ARG:NH1	1.96	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:a:410:LEU:HD21	1:a:427:LEU:HA	1.62	0.81
1:c:19:PHE:HZ	1:c:92:ILE:HD13	1.44	0.81
1:c:52:LYS:HD2	1:c:53:ASP:CG	2.06	0.81
1:c:86:LYS:CE	1:c:89:MET:HE1	2.11	0.81
1:c:172:CYS:SG	1:c:176:PHE:CZ	2.73	0.81
1:e:353:ILE:CG2	1:e:426:TYR:CB	2.56	0.81
1:e:365:TYR:HH	1:e:404:LYS:HG2	1.40	0.81
1:A:487:PHE:HB2	1:A:489:MET:HE2	1.63	0.81
1:C:357:LEU:CD1	1:C:366:ARG:CD	2.54	0.81
1:E:203:ILE:CG2	1:E:237:TYR:OH	2.21	0.81
1:K:52:LYS:HD2	1:K:53:ASP:CG	2.06	0.81
1:K:86:LYS:CE	1:K:89:MET:HE1	2.11	0.81
1:M:52:LYS:HD2	1:M:53:ASP:CG	2.06	0.81
1:O:153:LEU:HD21	1:O:267:ARG:NH1	1.96	0.81
1:O:235:LYS:HA	1:O:235:LYS:CE	2.11	0.81
1:W:104:ARG:CA	1:W:107:ILE:HG22	2.11	0.81
2:X:76:LEU:O	2:X:80:THR:HG22	1.81	0.81
1:a:235:LYS:HA	1:a:235:LYS:CE	2.11	0.81
1:e:86:LYS:CE	1:e:89:MET:HE1	2.11	0.81
1:A:360:LEU:HG	1:A:365:TYR:HB2	1.60	0.81
2:D:76:LEU:O	2:D:80:THR:HG22	1.81	0.81
1:E:52:LYS:HD2	1:E:53:ASP:CG	2.06	0.81
2:F:76:LEU:O	2:F:80:THR:HG22	1.81	0.81
1:G:410:LEU:HD21	1:G:427:LEU:HA	1.62	0.81
1:K:357:LEU:CD1	1:K:366:ARG:CD	2.54	0.81
1:K:371:ARG:O	1:K:374:VAL:HG13	1.80	0.81
1:U:52:LYS:HD2	1:U:53:ASP:CG	2.06	0.81
1:U:231:LEU:O	1:U:234:SER:HB2	1.81	0.81
1:W:10:TYR:HD1	1:W:107:ILE:HD13	1.45	0.81
1:Y:104:ARG:CA	1:Y:107:ILE:HG22	2.11	0.81
1:Y:166:LEU:HD23	1:Y:167:SER:HA	1.63	0.81
1:a:19:PHE:HZ	1:a:92:ILE:HD13	1.44	0.81
1:e:52:LYS:HD2	1:e:53:ASP:CG	2.06	0.81
1:A:235:LYS:HA	1:A:235:LYS:CE	2.11	0.81
1:E:10:TYR:HD1	1:E:107:ILE:HD13	1.45	0.81
1:E:178:ILE:HG21	1:E:241:LEU:CD2	2.02	0.81
1:E:231:LEU:O	1:E:234:SER:HB2	1.81	0.81
1:E:353:ILE:CG2	1:E:426:TYR:CB	2.56	0.81
1:G:247:VAL:HG21	1:G:264:LEU:HD13	1.63	0.81
2:H:88:ASN:O	2:H:92:ASN:ND2	2.13	0.81
1:I:360:LEU:HG	1:I:365:TYR:HB2	1.60	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:O:52:LYS:HD2	1:O:53:ASP:CG	2.06	0.81
1:Q:86:LYS:CE	1:Q:89:MET:HE3	2.08	0.81
1:Q:104:ARG:CA	1:Q:107:ILE:HG22	2.11	0.81
1:Q:371:ARG:O	1:Q:374:VAL:HG13	1.80	0.81
1:S:247:VAL:HG21	1:S:264:LEU:HD13	1.63	0.81
1:S:410:LEU:HD21	1:S:427:LEU:HA	1.62	0.81
1:U:15:ILE:HG21	1:U:95:GLU:HB2	1.60	0.81
1:U:203:ILE:CG2	1:U:237:TYR:OH	2.21	0.81
2:V:76:LEU:O	2:V:80:THR:HG22	1.81	0.81
1:Y:52:LYS:HD2	1:Y:53:ASP:CG	2.06	0.81
1:Y:150:ASP:OD2	1:Y:272:THR:CG2	2.29	0.81
1:a:52:LYS:HD2	1:a:53:ASP:CG	2.06	0.81
1:c:365:TYR:HD1	1:c:405:LEU:HD22	1.41	0.81
1:e:235:LYS:HA	1:e:235:LYS:CE	2.11	0.81
1:e:357:LEU:CG	1:e:430:LYS:HZ3	1.94	0.81
1:A:192:VAL:O	1:A:196:LEU:HB2	1.81	0.81
1:C:192:VAL:O	1:C:196:LEU:HB2	1.81	0.81
1:G:184:LYS:O	1:G:185:ASN:O	1.99	0.81
1:G:231:LEU:O	1:G:234:SER:HB2	1.81	0.81
1:I:104:ARG:CA	1:I:107:ILE:HG22	2.11	0.81
1:K:235:LYS:HA	1:K:235:LYS:CE	2.11	0.81
1:M:19:PHE:HZ	1:M:92:ILE:HD13	1.44	0.81
1:O:86:LYS:CE	1:O:89:MET:HE1	2.11	0.81
1:Q:52:LYS:HD2	1:Q:53:ASP:CG	2.06	0.81
1:Q:150:ASP:OD2	1:Q:272:THR:CG2	2.29	0.81
1:Q:153:LEU:HD21	1:Q:267:ARG:NH1	1.96	0.81
1:Q:166:LEU:HD23	1:Q:167:SER:HA	1.63	0.81
1:Q:279:THR:C	1:Q:280:THR:CG2	2.49	0.81
1:S:87:PHE:HD1	1:S:88:LEU:HD12	1.47	0.81
1:W:150:ASP:OD2	1:W:272:THR:CG2	2.29	0.81
1:W:192:VAL:O	1:W:196:LEU:HB2	1.81	0.81
1:Y:153:LEU:HD21	1:Y:267:ARG:NH1	1.96	0.81
1:a:86:LYS:CE	1:a:89:MET:HE1	2.11	0.81
2:b:76:LEU:O	2:b:80:THR:HG22	1.81	0.81
1:c:153:LEU:HD21	1:c:267:ARG:NH1	1.96	0.81
2:d:76:LEU:O	2:d:80:THR:HG22	1.81	0.81
1:e:371:ARG:O	1:e:374:VAL:HG13	1.80	0.81
1:A:104:ARG:CA	1:A:107:ILE:HG22	2.11	0.80
1:C:150:ASP:OD2	1:C:272:THR:CG2	2.29	0.80
1:G:87:PHE:HD1	1:G:88:LEU:HD12	1.47	0.80
1:I:235:LYS:HA	1:I:235:LYS:CE	2.11	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:O:150:ASP:OD2	1:O:272:THR:CG2	2.29	0.80
1:O:172:CYS:SG	1:O:176:PHE:CZ	2.73	0.80
1:S:184:LYS:O	1:S:185:ASN:O	1.99	0.80
1:S:231:LEU:O	1:S:234:SER:HB2	1.81	0.80
2:T:88:ASN:O	2:T:92:ASN:ND2	2.13	0.80
1:U:353:ILE:CG2	1:U:426:TYR:CB	2.56	0.80
1:W:46:ASP:HA	1:W:49:ILE:HG22	1.63	0.80
1:W:357:LEU:CD1	1:W:366:ARG:CD	2.54	0.80
1:Y:184:LYS:O	1:Y:185:ASN:O	1.99	0.80
1:Y:279:THR:C	1:Y:280:THR:CG2	2.49	0.80
1:Y:371:ARG:O	1:Y:374:VAL:HG13	1.80	0.80
2:Z:76:LEU:O	2:Z:80:THR:HG22	1.81	0.80
1:a:87:PHE:HD2	2:b:83:GLY:HA2	1.43	0.80
1:a:150:ASP:OD2	1:a:272:THR:CG2	2.29	0.80
1:a:172:CYS:SG	1:a:176:PHE:CZ	2.73	0.80
1:c:487:PHE:HB2	1:c:489:MET:HE2	1.63	0.80
1:e:357:LEU:CD1	1:e:366:ARG:CD	2.54	0.80
1:A:410:LEU:HD21	1:A:427:LEU:HA	1.62	0.80
1:C:46:ASP:HA	1:C:49:ILE:HG22	1.63	0.80
1:C:247:VAL:HG21	1:C:264:LEU:HD13	1.63	0.80
1:G:153:LEU:HD21	1:G:267:ARG:NH1	1.96	0.80
1:I:192:VAL:O	1:I:196:LEU:HB2	1.81	0.80
1:M:153:LEU:HD21	1:M:267:ARG:NH1	1.96	0.80
1:M:487:PHE:HB2	1:M:489:MET:HE2	1.63	0.80
2:N:76:LEU:O	2:N:80:THR:HG22	1.81	0.80
2:P:76:LEU:O	2:P:80:THR:HG22	1.81	0.80
1:Q:184:LYS:O	1:Q:185:ASN:O	1.99	0.80
2:R:76:LEU:O	2:R:80:THR:HG22	1.81	0.80
1:S:153:LEU:HD21	1:S:267:ARG:NH1	1.96	0.80
1:S:192:VAL:HB	1:S:221:ILE:HD12	1.62	0.80
1:S:235:LYS:HA	1:S:235:LYS:CE	2.11	0.80
1:U:371:ARG:CD	1:U:389:ILE:HD12	1.76	0.80
1:W:232:LEU:CD2	1:W:260:CYS:SG	2.70	0.80
1:W:247:VAL:HG21	1:W:264:LEU:HD13	1.63	0.80
1:Y:86:LYS:CE	1:Y:89:MET:HE3	2.08	0.80
1:c:232:LEU:CD2	1:c:260:CYS:SG	2.70	0.80
1:e:360:LEU:HG	1:e:365:TYR:HB2	1.60	0.80
1:C:232:LEU:CD2	1:C:260:CYS:SG	2.70	0.80
2:D:88:ASN:O	2:D:92:ASN:ND2	2.13	0.80
1:E:166:LEU:HD23	1:E:167:SER:HA	1.63	0.80
1:E:183:LEU:HD22	1:E:186:CYS:HG	0.98	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:232:LEU:CD2	1:E:260:CYS:SG	2.70	0.80
1:G:192:VAL:HB	1:G:221:ILE:HD12	1.62	0.80
1:K:46:ASP:HA	1:K:49:ILE:HG22	1.63	0.80
1:M:232:LEU:CD2	1:M:260:CYS:SG	2.70	0.80
1:Q:87:PHE:HD1	1:Q:88:LEU:HD12	1.47	0.80
1:S:87:PHE:CD1	1:S:88:LEU:HD12	2.16	0.80
1:S:232:LEU:CD2	1:S:260:CYS:SG	2.70	0.80
1:U:232:LEU:CD2	1:U:260:CYS:SG	2.70	0.80
1:Y:10:TYR:HD1	1:Y:107:ILE:HD13	1.45	0.80
1:Y:87:PHE:HD1	1:Y:88:LEU:HD12	1.47	0.80
1:e:46:ASP:HA	1:e:49:ILE:HG22	1.63	0.80
1:A:87:PHE:CD1	1:A:88:LEU:HD12	2.16	0.80
1:C:87:PHE:HD1	1:C:88:LEU:HD12	1.47	0.80
1:E:46:ASP:HA	1:E:49:ILE:HG22	1.63	0.80
1:G:232:LEU:CD2	1:G:260:CYS:SG	2.70	0.80
1:I:86:LYS:CE	1:I:89:MET:HE1	2.11	0.80
1:K:10:TYR:HD1	1:K:107:ILE:HD13	1.45	0.80
1:K:360:LEU:HG	1:K:365:TYR:HB2	1.60	0.80
2:L:76:LEU:O	2:L:80:THR:HG22	1.81	0.80
1:O:487:PHE:HB2	1:O:489:MET:HE2	1.63	0.80
1:U:46:ASP:HA	1:U:49:ILE:HG22	1.63	0.80
1:U:150:ASP:OD2	1:U:272:THR:CG2	2.29	0.80
1:U:166:LEU:HD23	1:U:167:SER:HA	1.63	0.80
1:U:183:LEU:HD22	1:U:186:CYS:HG	0.98	0.80
1:W:24:VAL:CG2	1:W:58:THR:HG21	2.06	0.80
1:W:87:PHE:HD1	1:W:88:LEU:HD12	1.47	0.80
2:X:88:ASN:O	2:X:92:ASN:ND2	2.13	0.80
1:Y:172:CYS:SG	1:Y:176:PHE:CZ	2.73	0.80
1:a:487:PHE:HB2	1:a:489:MET:HE2	1.63	0.80
1:e:192:VAL:O	1:e:196:LEU:HB2	1.81	0.80
1:A:46:ASP:HA	1:A:49:ILE:HG22	1.63	0.80
1:A:86:LYS:CE	1:A:89:MET:HE1	2.11	0.80
1:E:87:PHE:HD1	1:E:88:LEU:HD12	1.47	0.80
1:G:87:PHE:CD1	1:G:88:LEU:HD12	2.16	0.80
1:I:46:ASP:HA	1:I:49:ILE:HG22	1.63	0.80
1:I:87:PHE:CD1	1:I:88:LEU:HD12	2.16	0.80
1:I:153:LEU:HD21	1:I:267:ARG:NH1	1.96	0.80
1:I:410:LEU:HD21	1:I:427:LEU:HA	1.62	0.80
2:N:88:ASN:O	2:N:92:ASN:ND2	2.13	0.80
1:O:87:PHE:HD2	2:P:83:GLY:HA2	1.43	0.80
1:O:360:LEU:HD11	1:O:405:LEU:HD21	1.62	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Q:172:CYS:SG	1:Q:176:PHE:CZ	2.73	0.80
1:Q:183:LEU:HD22	1:Q:186:CYS:HG	0.98	0.80
1:U:87:PHE:CD1	1:U:88:LEU:HD12	2.16	0.80
1:U:87:PHE:HD1	1:U:88:LEU:HD12	1.47	0.80
2:V:88:ASN:O	2:V:92:ASN:ND2	2.13	0.80
1:Y:231:LEU:O	1:Y:234:SER:HB2	1.81	0.80
2:Z:88:ASN:O	2:Z:92:ASN:ND2	2.13	0.80
1:a:288:HIS:CD2	1:a:288:HIS:H	1.99	0.80
1:c:247:VAL:HG21	1:c:264:LEU:HD13	1.63	0.80
1:e:10:TYR:HD1	1:e:107:ILE:HD13	1.45	0.80
1:e:357:LEU:HG	1:e:430:LYS:HZ3	1.45	0.80
2:f:76:LEU:O	2:f:80:THR:HG22	1.81	0.80
1:A:153:LEU:HD21	1:A:267:ARG:NH1	1.96	0.80
1:A:172:CYS:SG	1:A:176:PHE:CZ	2.73	0.80
1:E:87:PHE:CD1	1:E:88:LEU:HD12	2.16	0.80
1:E:150:ASP:OD2	1:E:272:THR:CG2	2.29	0.80
1:E:192:VAL:O	1:E:196:LEU:HB2	1.81	0.80
1:G:10:TYR:HD1	1:G:107:ILE:HD13	1.45	0.80
1:G:192:VAL:O	1:G:196:LEU:HB2	1.81	0.80
1:G:235:LYS:HA	1:G:235:LYS:CE	2.11	0.80
1:K:231:LEU:O	1:K:234:SER:HB2	1.81	0.80
1:M:247:VAL:HG21	1:M:264:LEU:HD13	1.63	0.80
1:O:87:PHE:HD1	1:O:88:LEU:HD12	1.47	0.80
1:Q:10:TYR:HD1	1:Q:107:ILE:HD13	1.45	0.80
1:Q:231:LEU:O	1:Q:234:SER:HB2	1.81	0.80
1:Q:232:LEU:CD2	1:Q:260:CYS:SG	2.70	0.80
2:R:88:ASN:O	2:R:92:ASN:ND2	2.13	0.80
1:W:87:PHE:CD1	1:W:88:LEU:HD12	2.16	0.80
1:W:172:CYS:SG	1:W:176:PHE:CZ	2.73	0.80
1:Y:232:LEU:CD2	1:Y:260:CYS:SG	2.70	0.80
1:Y:360:LEU:HG	1:Y:365:TYR:HB2	1.60	0.80
1:c:235:LYS:CE	1:c:235:LYS:HA	2.11	0.80
1:A:52:LYS:HD2	1:A:53:ASP:CG	2.06	0.80
1:A:232:LEU:CD2	1:A:260:CYS:SG	2.70	0.80
1:C:24:VAL:CG2	1:C:58:THR:HG21	2.06	0.80
1:C:87:PHE:CD1	1:C:88:LEU:HD12	2.16	0.80
2:F:88:ASN:O	2:F:92:ASN:ND2	2.13	0.80
1:I:39:ILE:C	1:I:40:LEU:CD2	2.55	0.80
1:K:192:VAL:O	1:K:196:LEU:HB2	1.81	0.80
1:K:232:LEU:CD2	1:K:260:CYS:SG	2.70	0.80
1:M:235:LYS:HA	1:M:235:LYS:CE	2.11	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:O:288:HIS:CD2	1:O:288:HIS:H	1.99	0.80
1:S:172:CYS:SG	1:S:176:PHE:CZ	2.73	0.80
1:S:192:VAL:O	1:S:196:LEU:HB2	1.81	0.80
1:S:487:PHE:HB2	1:S:489:MET:HE2	1.63	0.80
2:T:76:LEU:O	2:T:80:THR:HG22	1.81	0.80
1:U:172:CYS:SG	1:U:176:PHE:CZ	2.73	0.80
1:Y:183:LEU:HD22	1:Y:186:CYS:HG	0.98	0.80
1:c:104:ARG:CA	1:c:107:ILE:HG22	2.11	0.80
1:c:192:VAL:O	1:c:196:LEU:HB2	1.81	0.80
2:d:88:ASN:O	2:d:92:ASN:ND2	2.13	0.80
1:e:231:LEU:O	1:e:234:SER:HB2	1.81	0.80
1:A:39:ILE:C	1:A:40:LEU:CD2	2.55	0.80
1:A:86:LYS:CE	1:A:89:MET:HE3	2.08	0.80
1:A:87:PHE:HD1	1:A:88:LEU:HD12	1.47	0.80
1:C:172:CYS:SG	1:C:176:PHE:CZ	2.73	0.80
1:E:104:ARG:CA	1:E:107:ILE:HG22	2.11	0.80
1:G:203:ILE:CG2	1:G:237:TYR:OH	2.21	0.80
1:I:52:LYS:HD2	1:I:53:ASP:CG	2.06	0.80
1:I:172:CYS:SG	1:I:176:PHE:CZ	2.73	0.80
1:I:232:LEU:CD2	1:I:260:CYS:SG	2.70	0.80
1:K:166:LEU:HD23	1:K:167:SER:HA	1.63	0.80
1:M:150:ASP:OD2	1:M:272:THR:CG2	2.29	0.80
1:M:192:VAL:O	1:M:196:LEU:HB2	1.81	0.80
1:Q:365:TYR:CE1	1:Q:404:LYS:HB3	2.17	0.80
1:S:360:LEU:HG	1:S:365:TYR:HB2	1.60	0.80
1:U:192:VAL:O	1:U:196:LEU:HB2	1.81	0.80
1:W:410:LEU:HD21	1:W:427:LEU:HA	1.62	0.80
1:Y:87:PHE:CD1	1:Y:88:LEU:HD12	2.16	0.80
1:Y:365:TYR:CE1	1:Y:404:LYS:HB3	2.17	0.80
1:Y:410:LEU:HD21	1:Y:427:LEU:HA	1.62	0.80
1:a:87:PHE:HD1	1:a:88:LEU:HD12	1.47	0.80
1:a:360:LEU:HD11	1:a:405:LEU:HD21	1.62	0.80
1:c:150:ASP:OD2	1:c:272:THR:CG2	2.29	0.80
1:e:153:LEU:HD21	1:e:267:ARG:NH1	1.96	0.80
1:e:166:LEU:HD23	1:e:167:SER:HA	1.63	0.80
1:E:172:CYS:SG	1:E:176:PHE:CZ	2.73	0.80
1:E:410:LEU:HD21	1:E:427:LEU:HA	1.62	0.80
1:G:172:CYS:SG	1:G:176:PHE:CZ	2.73	0.80
1:G:243:VAL:HG12	1:G:263:LEU:CD2	2.12	0.80
1:G:360:LEU:HG	1:G:365:TYR:HB2	1.60	0.80
1:G:487:PHE:HB2	1:G:489:MET:HE2	1.63	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:76:LEU:O	2:H:80:THR:HG22	1.81	0.80
1:I:87:PHE:HD2	2:J:83:GLY:HA2	1.43	0.80
1:M:46:ASP:HA	1:M:49:ILE:HG22	1.63	0.80
1:M:104:ARG:CA	1:M:107:ILE:HG22	2.11	0.80
1:Q:87:PHE:CD1	1:Q:88:LEU:HD12	2.16	0.80
1:Q:192:VAL:O	1:Q:196:LEU:HB2	1.81	0.80
1:Q:410:LEU:HD21	1:Q:427:LEU:HA	1.62	0.80
1:S:10:TYR:HD1	1:S:107:ILE:HD13	1.45	0.80
1:S:229:ARG:HG2	1:S:229:ARG:HH21	1.47	0.80
1:S:243:VAL:HG12	1:S:263:LEU:CD2	2.12	0.80
1:U:104:ARG:CA	1:U:107:ILE:HG22	2.11	0.80
1:W:192:VAL:HB	1:W:221:ILE:HD12	1.62	0.80
1:W:463:LEU:HB2	1:W:467:PHE:CD1	2.17	0.80
1:a:166:LEU:HD23	1:a:167:SER:HA	1.63	0.80
1:c:46:ASP:HA	1:c:49:ILE:HG22	1.63	0.80
1:e:232:LEU:CD2	1:e:260:CYS:SG	2.70	0.80
1:A:231:LEU:O	1:A:234:SER:HB2	1.81	0.80
1:C:229:ARG:O	1:C:233:LYS:HD2	1.82	0.80
1:C:410:LEU:HD21	1:C:427:LEU:HA	1.62	0.80
1:C:463:LEU:HB2	1:C:467:PHE:CD1	2.17	0.80
1:G:229:ARG:HG2	1:G:229:ARG:HH21	1.47	0.80
1:I:87:PHE:HD1	1:I:88:LEU:HD12	1.47	0.80
1:K:153:LEU:HD21	1:K:267:ARG:NH1	1.96	0.80
1:K:487:PHE:HB2	1:K:489:MET:HE2	1.63	0.80
1:M:166:LEU:HD23	1:M:167:SER:HA	1.63	0.80
1:M:229:ARG:HG2	1:M:229:ARG:HH21	1.47	0.80
1:O:232:LEU:CD2	1:O:260:CYS:SG	2.70	0.80
1:O:357:LEU:HG	1:O:430:LYS:NZ	1.98	0.80
1:Q:216:ASN:HB2	1:Q:219:LEU:HB3	1.64	0.80
1:Q:422:ILE:HG22	1:Q:423:PRO:CD	1.77	0.80
1:U:153:LEU:HD21	1:U:267:ARG:NH1	1.96	0.80
1:U:410:LEU:HD21	1:U:427:LEU:HA	1.62	0.80
1:W:229:ARG:O	1:W:233:LYS:HD2	1.82	0.80
1:W:365:TYR:CE1	1:W:404:LYS:HB3	2.17	0.80
1:Y:46:ASP:HA	1:Y:49:ILE:HG22	1.63	0.80
1:Y:216:ASN:HB2	1:Y:219:LEU:HB3	1.64	0.80
1:Y:422:ILE:HG22	1:Y:423:PRO:CD	1.77	0.80
1:a:357:LEU:HG	1:a:430:LYS:NZ	1.98	0.80
1:c:39:ILE:C	1:c:40:LEU:CD2	2.55	0.80
1:C:192:VAL:HB	1:C:221:ILE:HD12	1.62	0.79
1:C:365:TYR:CE1	1:C:404:LYS:HB3	2.17	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:153:LEU:HD21	1:E:267:ARG:NH1	1.96	0.79
1:E:229:ARG:HG2	1:E:229:ARG:HH21	1.47	0.79
1:G:39:ILE:C	1:G:40:LEU:CD2	2.55	0.79
1:G:237:TYR:O	1:G:239:ASN:N	2.16	0.79
1:M:39:ILE:C	1:M:40:LEU:CD2	2.55	0.79
1:Q:243:VAL:HG12	1:Q:263:LEU:CD2	2.12	0.79
1:Q:300:LEU:CD1	1:Q:304:TYR:OH	2.30	0.79
1:S:39:ILE:C	1:S:40:LEU:CD2	2.55	0.79
1:S:237:TYR:O	1:S:239:ASN:N	2.16	0.79
1:U:229:ARG:HG2	1:U:229:ARG:HH21	1.47	0.79
1:Y:192:VAL:O	1:Y:196:LEU:HB2	1.81	0.79
1:Y:300:LEU:CD1	1:Y:304:TYR:OH	2.30	0.79
1:c:10:TYR:HD1	1:c:107:ILE:HD13	1.45	0.79
1:c:229:ARG:HG2	1:c:229:ARG:HH21	1.47	0.79
1:e:183:LEU:CD2	1:e:186:CYS:HG	1.85	0.79
1:A:237:TYR:O	1:A:239:ASN:N	2.16	0.79
1:E:288:HIS:CD2	1:E:288:HIS:H	1.99	0.79
1:E:463:LEU:HB2	1:E:467:PHE:CD1	2.17	0.79
1:G:52:LYS:HD2	1:G:53:ASP:CG	2.06	0.79
1:I:86:LYS:CE	1:I:89:MET:HE3	2.08	0.79
1:I:229:ARG:O	1:I:233:LYS:HD2	1.82	0.79
1:I:231:LEU:O	1:I:234:SER:HB2	1.81	0.79
1:I:237:TYR:O	1:I:239:ASN:N	2.16	0.79
1:K:150:ASP:OD2	1:K:272:THR:CG2	2.29	0.79
1:O:87:PHE:CD1	1:O:88:LEU:HD12	2.16	0.79
1:O:166:LEU:HD23	1:O:167:SER:HA	1.63	0.79
1:Q:46:ASP:HA	1:Q:49:ILE:HG22	1.63	0.79
1:Q:247:VAL:HG21	1:Q:264:LEU:HD13	1.63	0.79
1:U:360:LEU:HD11	1:U:405:LEU:HD21	1.62	0.79
1:Y:243:VAL:HG12	1:Y:263:LEU:CD2	2.12	0.79
1:Y:357:LEU:HG	1:Y:430:LYS:HZ3	1.45	0.79
1:a:87:PHE:CD1	1:a:88:LEU:HD12	2.16	0.79
1:c:288:HIS:CD2	1:c:288:HIS:H	1.99	0.79
1:e:150:ASP:OD2	1:e:272:THR:CG2	2.29	0.79
1:e:172:CYS:SG	1:e:176:PHE:CZ	2.73	0.79
1:A:229:ARG:O	1:A:233:LYS:HD2	1.82	0.79
1:C:52:LYS:HD2	1:C:53:ASP:CG	2.06	0.79
1:E:235:LYS:HA	1:E:235:LYS:CE	2.11	0.79
1:I:184:LYS:O	1:I:185:ASN:O	1.99	0.79
1:K:237:TYR:O	1:K:239:ASN:N	2.16	0.79
1:K:463:LEU:HB2	1:K:467:PHE:CD1	2.17	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:87:PHE:CD1	1:M:88:LEU:HD12	2.16	0.79
1:S:52:LYS:HD2	1:S:53:ASP:CG	2.06	0.79
1:S:203:ILE:CG2	1:S:237:TYR:OH	2.21	0.79
1:U:243:VAL:HG12	1:U:263:LEU:CD2	2.12	0.79
1:U:371:ARG:CB	1:U:389:ILE:CG1	2.56	0.79
1:U:463:LEU:HB2	1:U:467:PHE:CD1	2.17	0.79
1:Y:247:VAL:HG21	1:Y:264:LEU:HD13	1.63	0.79
1:a:232:LEU:CD2	1:a:260:CYS:SG	2.70	0.79
1:c:166:LEU:HD23	1:c:167:SER:HA	1.63	0.79
1:e:487:PHE:HB2	1:e:489:MET:HE2	1.63	0.79
1:A:87:PHE:HD2	2:B:83:GLY:HA2	1.43	0.79
1:A:250:ALA:HB1	1:A:274:PHE:CE2	2.17	0.79
1:C:216:ASN:HB2	1:C:219:LEU:HB3	1.64	0.79
1:C:410:LEU:CA	1:C:426:TYR:CE1	2.56	0.79
1:E:237:TYR:O	1:E:239:ASN:N	2.16	0.79
1:E:243:VAL:HG12	1:E:263:LEU:CD2	2.12	0.79
1:E:360:LEU:HD11	1:E:405:LEU:HD21	1.62	0.79
1:I:250:ALA:HB1	1:I:274:PHE:CE2	2.17	0.79
1:I:357:LEU:CD1	1:I:366:ARG:CD	2.54	0.79
1:K:87:PHE:CD1	1:K:88:LEU:HD12	2.16	0.79
1:M:288:HIS:CD2	1:M:288:HIS:H	1.99	0.79
1:M:410:LEU:HD12	1:M:423:PRO:HD2	1.53	0.79
1:O:365:TYR:CE1	1:O:404:LYS:HB3	2.17	0.79
1:Q:357:LEU:CD1	1:Q:366:ARG:CD	2.54	0.79
1:S:150:ASP:OD2	1:S:272:THR:CG2	2.29	0.79
1:S:203:ILE:HG23	1:S:237:TYR:HH	1.44	0.79
1:S:357:LEU:HG	1:S:430:LYS:NZ	1.98	0.79
1:U:237:TYR:O	1:U:239:ASN:N	2.16	0.79
1:W:52:LYS:HD2	1:W:53:ASP:CG	2.06	0.79
1:Y:463:LEU:HB2	1:Y:467:PHE:CD1	2.17	0.79
1:a:184:LYS:O	1:a:185:ASN:O	1.99	0.79
1:a:192:VAL:O	1:a:196:LEU:HB2	1.81	0.79
1:a:365:TYR:CE1	1:a:404:LYS:HB3	2.17	0.79
1:c:87:PHE:CD1	1:c:88:LEU:HD12	2.16	0.79
1:c:422:ILE:HG22	1:c:423:PRO:CD	1.77	0.79
1:e:39:ILE:C	1:e:40:LEU:CD2	2.55	0.79
1:e:87:PHE:CD1	1:e:88:LEU:HD12	2.16	0.79
1:e:463:LEU:HB2	1:e:467:PHE:CD1	2.17	0.79
1:A:184:LYS:O	1:A:185:ASN:O	1.99	0.79
1:A:229:ARG:HG2	1:A:229:ARG:HH21	1.47	0.79
1:C:183:LEU:HD22	1:C:186:CYS:HG	0.96	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:229:ARG:HG2	1:C:229:ARG:HH21	1.47	0.79
1:C:231:LEU:O	1:C:234:SER:HB2	1.81	0.79
1:E:371:ARG:CB	1:E:389:ILE:CG1	2.56	0.79
1:G:357:LEU:HG	1:G:430:LYS:NZ	1.98	0.79
1:I:463:LEU:HB2	1:I:467:PHE:CD1	2.17	0.79
1:K:172:CYS:SG	1:K:176:PHE:CZ	2.73	0.79
1:M:10:TYR:HD1	1:M:107:ILE:HD13	1.45	0.79
1:O:184:LYS:O	1:O:185:ASN:O	1.99	0.79
1:O:192:VAL:O	1:O:196:LEU:HB2	1.81	0.79
1:O:300:LEU:CD1	1:O:304:TYR:OH	2.30	0.79
1:Q:250:ALA:HB1	1:Q:274:PHE:CE2	2.17	0.79
1:Q:357:LEU:HG	1:Q:430:LYS:NZ	1.97	0.79
1:Q:463:LEU:HB2	1:Q:467:PHE:CD1	2.17	0.79
1:S:459:ILE:HG23	1:S:497:LEU:HD11	1.65	0.79
1:U:235:LYS:HA	1:U:235:LYS:CE	2.11	0.79
1:U:288:HIS:CD2	1:U:288:HIS:H	1.99	0.79
1:W:216:ASN:HB2	1:W:219:LEU:HB3	1.64	0.79
1:a:19:PHE:HZ	1:a:92:ILE:CG1	1.90	0.79
1:a:216:ASN:HB2	1:a:219:LEU:HB3	1.64	0.79
1:a:243:VAL:HG12	1:a:263:LEU:CD2	2.12	0.79
1:c:300:LEU:CD1	1:c:304:TYR:OH	2.30	0.79
1:A:10:TYR:HD1	1:A:107:ILE:HD13	1.45	0.79
1:A:150:ASP:OD2	1:A:272:THR:CG2	2.29	0.79
1:A:300:LEU:CD1	1:A:304:TYR:OH	2.30	0.79
1:A:463:LEU:HB2	1:A:467:PHE:CD1	2.17	0.79
1:C:86:LYS:CE	1:C:89:MET:HE1	2.11	0.79
1:G:150:ASP:OD2	1:G:272:THR:CG2	2.29	0.79
1:G:459:ILE:HG23	1:G:497:LEU:HD11	1.65	0.79
1:I:229:ARG:HG2	1:I:229:ARG:HH21	1.47	0.79
1:K:371:ARG:CD	1:K:389:ILE:HD12	1.76	0.79
1:M:166:LEU:HD23	1:M:167:SER:N	1.98	0.79
1:M:300:LEU:CD1	1:M:304:TYR:OH	2.30	0.79
1:O:216:ASN:HB2	1:O:219:LEU:HB3	1.64	0.79
1:O:243:VAL:HG12	1:O:263:LEU:CD2	2.12	0.79
1:Q:235:LYS:HA	1:Q:235:LYS:CE	2.11	0.79
1:Q:365:TYR:HH	1:Q:404:LYS:HG2	1.48	0.79
1:S:250:ALA:HB1	1:S:274:PHE:CE2	2.18	0.79
1:W:357:LEU:HG	1:W:430:LYS:NZ	1.98	0.79
1:W:410:LEU:CA	1:W:426:TYR:CE1	2.56	0.79
1:Y:250:ALA:HB1	1:Y:274:PHE:CE2	2.17	0.79
1:Y:357:LEU:HG	1:Y:430:LYS:NZ	1.97	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:a:300:LEU:CD1	1:a:304:TYR:OH	2.30	0.79
1:A:459:ILE:HG23	1:A:497:LEU:HD11	1.65	0.79
1:C:153:LEU:HD21	1:C:267:ARG:NH1	1.96	0.79
1:C:243:VAL:HG12	1:C:263:LEU:CD2	2.12	0.79
1:E:300:LEU:CD1	1:E:304:TYR:OH	2.30	0.79
1:G:86:LYS:CE	1:G:89:MET:HE1	2.11	0.79
1:G:250:ALA:HB1	1:G:274:PHE:CE2	2.18	0.79
1:I:150:ASP:OD2	1:I:272:THR:CG2	2.29	0.79
1:I:243:VAL:HG12	1:I:263:LEU:CD2	2.12	0.79
1:I:300:LEU:CD1	1:I:304:TYR:OH	2.30	0.79
1:I:365:TYR:CE1	1:I:404:LYS:HB3	2.17	0.79
1:I:459:ILE:HG23	1:I:497:LEU:HD11	1.65	0.79
1:M:463:LEU:HB2	1:M:467:PHE:CD1	2.17	0.79
1:O:247:VAL:HG21	1:O:264:LEU:HD13	1.63	0.79
1:S:86:LYS:CE	1:S:89:MET:HE1	2.11	0.79
1:W:229:ARG:HG2	1:W:229:ARG:HH21	1.47	0.79
1:Y:357:LEU:CD1	1:Y:366:ARG:CD	2.54	0.79
1:a:247:VAL:HG21	1:a:264:LEU:HD13	1.63	0.79
1:c:166:LEU:HD23	1:c:167:SER:N	1.98	0.79
1:c:243:VAL:HG12	1:c:263:LEU:CD2	2.12	0.79
1:c:463:LEU:HB2	1:c:467:PHE:CD1	2.17	0.79
1:e:24:VAL:CG2	1:e:58:THR:HG21	2.06	0.79
1:A:166:LEU:HD23	1:A:167:SER:HA	1.63	0.79
1:A:357:LEU:CD1	1:A:366:ARG:CD	2.54	0.79
1:A:365:TYR:CE1	1:A:404:LYS:HB3	2.17	0.79
1:G:46:ASP:HA	1:G:49:ILE:HG22	1.63	0.79
1:G:131:TYR:OH	1:G:167:SER:OG	2.00	0.79
1:G:288:HIS:CD2	1:G:288:HIS:H	1.99	0.79
1:I:10:TYR:HD1	1:I:107:ILE:HD13	1.45	0.79
1:K:39:ILE:C	1:K:40:LEU:CD2	2.55	0.79
1:K:184:LYS:O	1:K:185:ASN:O	1.99	0.79
1:K:250:ALA:HB1	1:K:274:PHE:CE2	2.18	0.79
1:K:300:LEU:CD1	1:K:304:TYR:OH	2.30	0.79
1:K:365:TYR:CE1	1:K:404:LYS:HB3	2.17	0.79
1:M:243:VAL:HG12	1:M:263:LEU:CD2	2.12	0.79
1:O:47:HIS:C	1:O:50:MET:HB2	2.08	0.79
1:U:131:TYR:OH	1:U:167:SER:OG	2.00	0.79
1:U:300:LEU:CD1	1:U:304:TYR:OH	2.30	0.79
1:W:86:LYS:CE	1:W:89:MET:HE1	2.11	0.79
1:W:231:LEU:O	1:W:234:SER:HB2	1.81	0.79
1:W:243:VAL:HG12	1:W:263:LEU:CD2	2.12	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Y:86:LYS:CE	1:Y:89:MET:HE1	2.11	0.79
1:Y:229:ARG:HG2	1:Y:229:ARG:HH21	1.47	0.79
1:Y:235:LYS:HA	1:Y:235:LYS:CE	2.11	0.79
1:c:231:LEU:O	1:c:234:SER:HB2	1.81	0.79
1:e:243:VAL:HG12	1:e:263:LEU:CD2	2.12	0.79
1:e:250:ALA:HB1	1:e:274:PHE:CE2	2.18	0.79
1:e:300:LEU:CD1	1:e:304:TYR:OH	2.30	0.79
1:e:371:ARG:CD	1:e:389:ILE:HD12	1.76	0.79
1:e:371:ARG:HB3	1:e:389:ILE:HG12	1.65	0.79
1:A:243:VAL:HG12	1:A:263:LEU:CD2	2.12	0.79
1:E:131:TYR:OH	1:E:167:SER:OG	2.00	0.79
1:I:166:LEU:HD23	1:I:167:SER:HA	1.63	0.79
1:I:371:ARG:CD	1:I:389:ILE:HD12	1.76	0.79
1:K:24:VAL:CG2	1:K:58:THR:HG21	2.06	0.79
1:K:371:ARG:HB3	1:K:389:ILE:HG12	1.65	0.79
1:K:459:ILE:HG23	1:K:497:LEU:HD11	1.65	0.79
1:M:87:PHE:HD1	1:M:88:LEU:HD12	1.47	0.79
1:M:231:LEU:O	1:M:234:SER:HB2	1.81	0.79
1:O:19:PHE:HZ	1:O:92:ILE:CG1	1.90	0.79
1:Q:229:ARG:HG2	1:Q:229:ARG:HH21	1.47	0.79
1:Q:357:LEU:HG	1:Q:430:LYS:HZ3	1.46	0.79
1:S:46:ASP:HA	1:S:49:ILE:HG22	1.63	0.79
1:S:371:ARG:HB3	1:S:389:ILE:HG12	1.65	0.79
1:U:229:ARG:O	1:U:233:LYS:HD2	1.82	0.79
1:W:153:LEU:HD21	1:W:267:ARG:NH1	1.96	0.79
1:a:47:HIS:C	1:a:50:MET:HB2	2.08	0.79
1:c:87:PHE:HD1	1:c:88:LEU:HD12	1.47	0.79
1:e:184:LYS:O	1:e:185:ASN:O	1.99	0.79
1:e:229:ARG:HH21	1:e:229:ARG:HG2	1.47	0.79
1:e:365:TYR:CE1	1:e:404:LYS:HB3	2.17	0.79
1:C:131:TYR:OH	1:C:167:SER:OG	2.00	0.79
1:C:371:ARG:CD	1:C:389:ILE:HD12	1.76	0.79
1:E:376:PRO:HB2	1:E:379:ALA:CB	2.13	0.79
1:G:365:TYR:CE1	1:G:404:LYS:HB3	2.17	0.79
1:G:371:ARG:HB3	1:G:389:ILE:HG12	1.65	0.79
1:I:118:GLN:HE21	1:K:279:THR:HG21	1.48	0.79
1:I:166:LEU:HD23	1:I:167:SER:N	1.98	0.79
1:I:193:LEU:HD12	1:I:217:ILE:CG1	2.13	0.79
1:K:243:VAL:HG12	1:K:263:LEU:CD2	2.12	0.79
2:N:40:GLN:NE2	2:N:40:GLN:O	2.16	0.79
1:Q:86:LYS:CE	1:Q:89:MET:HE1	2.11	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Q:459:ILE:HG23	1:Q:497:LEU:HD11	1.65	0.79
1:Q:487:PHE:HB2	1:Q:489:MET:HE2	1.63	0.79
1:S:131:TYR:OH	1:S:167:SER:OG	2.00	0.79
1:S:166:LEU:HD23	1:S:167:SER:N	1.98	0.79
1:U:376:PRO:HB2	1:U:379:ALA:CB	2.13	0.79
1:W:188:SER:O	1:W:191:THR:CG2	2.28	0.79
2:d:40:GLN:NE2	2:d:40:GLN:O	2.16	0.79
1:e:459:ILE:HG23	1:e:497:LEU:HD11	1.65	0.79
1:A:131:TYR:OH	1:A:167:SER:OG	2.00	0.78
1:A:166:LEU:HD23	1:A:167:SER:N	1.98	0.78
1:A:193:LEU:HD12	1:A:217:ILE:CG1	2.13	0.78
1:C:250:ALA:HB1	1:C:274:PHE:CE2	2.18	0.78
1:C:487:PHE:HB2	1:C:489:MET:HE2	1.63	0.78
1:E:229:ARG:O	1:E:233:LYS:HD2	1.82	0.78
1:E:250:ALA:HB1	1:E:274:PHE:CE2	2.17	0.78
1:K:166:LEU:HD23	1:K:167:SER:N	1.98	0.78
1:K:425:ILE:HD12	1:K:425:ILE:O	1.83	0.78
2:L:40:GLN:O	2:L:40:GLN:NE2	2.16	0.78
1:M:425:ILE:O	1:M:425:ILE:HD12	1.83	0.78
1:O:39:ILE:C	1:O:40:LEU:CD2	2.55	0.78
1:S:288:HIS:CD2	1:S:288:HIS:H	1.99	0.78
1:S:365:TYR:CE1	1:S:404:LYS:HB3	2.17	0.78
1:U:250:ALA:HB1	1:U:274:PHE:CE2	2.17	0.78
1:W:47:HIS:C	1:W:50:MET:HB2	2.08	0.78
1:W:250:ALA:HB1	1:W:274:PHE:CE2	2.18	0.78
1:Y:459:ILE:HG23	1:Y:497:LEU:HD11	1.65	0.78
1:c:47:HIS:C	1:c:50:MET:HB2	2.08	0.78
1:c:425:ILE:HD12	1:c:425:ILE:O	1.83	0.78
1:A:118:GLN:HE21	1:e:279:THR:HG21	1.48	0.78
1:C:47:HIS:C	1:C:50:MET:HB2	2.08	0.78
1:G:166:LEU:HD23	1:G:167:SER:N	1.98	0.78
1:I:131:TYR:OH	1:I:167:SER:OG	2.00	0.78
1:K:229:ARG:HG2	1:K:229:ARG:HH21	1.47	0.78
1:M:47:HIS:C	1:M:50:MET:HB2	2.08	0.78
1:M:188:SER:O	1:M:191:THR:CG2	2.28	0.78
1:O:231:LEU:O	1:O:234:SER:HB2	1.81	0.78
1:O:425:ILE:HD12	1:O:425:ILE:O	1.83	0.78
1:Q:425:ILE:O	1:Q:425:ILE:HD12	1.83	0.78
1:W:237:TYR:O	1:W:239:ASN:N	2.16	0.78
1:W:376:PRO:HB2	1:W:379:ALA:CB	2.13	0.78
1:W:487:PHE:HB2	1:W:489:MET:HE2	1.63	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Y:288:HIS:CD2	1:Y:288:HIS:H	1.99	0.78
1:Y:487:PHE:HB2	1:Y:489:MET:HE2	1.63	0.78
1:a:24:VAL:CG2	1:a:58:THR:HG21	2.06	0.78
1:a:39:ILE:C	1:a:40:LEU:CD2	2.55	0.78
1:a:425:ILE:O	1:a:425:ILE:HD12	1.83	0.78
1:e:166:LEU:HD23	1:e:167:SER:N	1.98	0.78
2:f:40:GLN:O	2:f:40:GLN:NE2	2.16	0.78
1:C:237:TYR:O	1:C:239:ASN:N	2.16	0.78
1:C:300:LEU:CD1	1:C:304:TYR:OH	2.30	0.78
1:C:357:LEU:HG	1:C:430:LYS:NZ	1.98	0.78
1:C:376:PRO:HB2	1:C:379:ALA:CB	2.13	0.78
1:G:463:LEU:HB2	1:G:467:PHE:CD1	2.17	0.78
1:K:178:ILE:HG21	1:K:241:LEU:CD2	2.02	0.78
2:P:40:GLN:NE2	2:P:40:GLN:O	2.16	0.78
1:Q:410:LEU:CA	1:Q:426:TYR:CE1	2.56	0.78
1:W:300:LEU:CD1	1:W:304:TYR:OH	2.30	0.78
2:b:40:GLN:O	2:b:40:GLN:NE2	2.16	0.78
1:c:184:LYS:O	1:c:185:ASN:O	1.99	0.78
1:e:425:ILE:O	1:e:425:ILE:HD12	1.83	0.78
1:C:65:LEU:HD11	1:C:73:VAL:HG22	1.66	0.78
1:E:199:LEU:HD11	1:E:242:LEU:CD1	2.14	0.78
1:M:24:VAL:HG22	1:M:58:THR:CG2	2.07	0.78
1:M:365:TYR:CE1	1:M:404:LYS:HB3	2.17	0.78
1:O:24:VAL:CG2	1:O:58:THR:HG21	2.06	0.78
1:O:250:ALA:HB1	1:O:274:PHE:CE2	2.18	0.78
1:Q:192:VAL:HB	1:Q:221:ILE:HD12	1.62	0.78
1:Q:229:ARG:O	1:Q:233:LYS:HD2	1.82	0.78
1:S:199:LEU:HD11	1:S:242:LEU:CD1	2.14	0.78
1:S:463:LEU:HB2	1:S:467:PHE:CD1	2.17	0.78
1:U:199:LEU:HD11	1:U:242:LEU:CD1	2.14	0.78
1:U:357:LEU:HG	1:U:430:LYS:NZ	1.97	0.78
1:U:459:ILE:HG23	1:U:497:LEU:HD11	1.65	0.78
1:Y:425:ILE:O	1:Y:425:ILE:HD12	1.83	0.78
1:a:231:LEU:O	1:a:234:SER:HB2	1.81	0.78
1:c:24:VAL:HG22	1:c:58:THR:CG2	2.07	0.78
1:c:188:SER:O	1:c:191:THR:CG2	2.28	0.78
1:e:360:LEU:HD11	1:e:405:LEU:HD21	1.62	0.78
1:C:241:LEU:HD23	1:C:241:LEU:O	1.84	0.78
1:E:166:LEU:HD23	1:E:167:SER:N	1.98	0.78
1:G:166:LEU:HD23	1:G:167:SER:HA	1.63	0.78
1:G:199:LEU:HD11	1:G:242:LEU:CD1	2.14	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:47:HIS:C	1:I:50:MET:HB2	2.08	0.78
1:I:178:ILE:HG21	1:I:241:LEU:CD2	2.02	0.78
1:K:65:LEU:HD11	1:K:73:VAL:HG22	1.66	0.78
1:M:184:LYS:O	1:M:185:ASN:O	1.99	0.78
1:Q:288:HIS:CD2	1:Q:288:HIS:H	1.99	0.78
1:S:166:LEU:HD23	1:S:167:SER:HA	1.63	0.78
1:U:86:LYS:CE	1:U:89:MET:HE1	2.11	0.78
1:W:65:LEU:HD11	1:W:73:VAL:HG22	1.66	0.78
1:W:241:LEU:HD23	1:W:241:LEU:O	1.84	0.78
1:W:371:ARG:CD	1:W:389:ILE:HD12	1.76	0.78
1:c:250:ALA:HB1	1:c:274:PHE:CE2	2.17	0.78
1:c:365:TYR:CE1	1:c:404:LYS:HB3	2.17	0.78
1:e:178:ILE:HG21	1:e:241:LEU:CD2	2.02	0.78
1:e:192:VAL:HB	1:e:221:ILE:HD12	1.62	0.78
1:e:229:ARG:O	1:e:233:LYS:HD2	1.82	0.78
1:A:47:HIS:C	1:A:50:MET:HB2	2.08	0.78
1:A:49:ILE:O	1:A:51:SER:CB	2.32	0.78
1:A:371:ARG:CD	1:A:389:ILE:HD12	1.76	0.78
1:C:19:PHE:CZ	1:C:92:ILE:HD11	2.19	0.78
1:C:166:LEU:HD23	1:C:167:SER:N	1.98	0.78
1:C:360:LEU:CD1	1:C:405:LEU:CD2	2.41	0.78
1:E:241:LEU:HD23	1:E:241:LEU:O	1.84	0.78
1:E:357:LEU:HG	1:E:430:LYS:NZ	1.97	0.78
1:E:459:ILE:HG23	1:E:497:LEU:HD11	1.65	0.78
1:G:300:LEU:CD1	1:G:304:TYR:OH	2.30	0.78
1:G:376:PRO:HB2	1:G:379:ALA:CB	2.13	0.78
1:I:49:ILE:O	1:I:51:SER:CB	2.32	0.78
1:I:371:ARG:CB	1:I:389:ILE:CG1	2.56	0.78
1:I:371:ARG:HB3	1:I:389:ILE:HG12	1.65	0.78
1:K:229:ARG:O	1:K:233:LYS:HD2	1.82	0.78
1:M:131:TYR:OH	1:M:167:SER:OG	2.00	0.78
1:M:250:ALA:HB1	1:M:274:PHE:CE2	2.17	0.78
1:O:192:VAL:CG2	1:O:221:ILE:HD12	2.14	0.78
1:S:47:HIS:C	1:S:50:MET:HB2	2.08	0.78
2:T:40:GLN:NE2	2:T:40:GLN:O	2.16	0.78
1:U:166:LEU:HD23	1:U:167:SER:N	1.98	0.78
1:U:241:LEU:HD23	1:U:241:LEU:O	1.84	0.78
1:U:365:TYR:CE1	1:U:404:LYS:HB3	2.17	0.78
1:U:487:PHE:HB2	1:U:489:MET:HE2	1.63	0.78
1:W:166:LEU:HD23	1:W:167:SER:N	1.98	0.78
1:W:345:ASN:C	1:W:347:ASP:H	1.92	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Y:19:PHE:HZ	1:Y:92:ILE:CG1	1.90	0.78
1:Y:229:ARG:O	1:Y:233:LYS:HD2	1.82	0.78
1:a:46:ASP:HA	1:a:49:ILE:HG22	1.63	0.78
1:a:192:VAL:CG2	1:a:221:ILE:HD12	2.14	0.78
1:a:250:ALA:HB1	1:a:274:PHE:CE2	2.18	0.78
1:a:459:ILE:HG23	1:a:497:LEU:HD11	1.65	0.78
1:e:65:LEU:HD11	1:e:73:VAL:HG22	1.66	0.78
1:A:371:ARG:CB	1:A:389:ILE:CG1	2.56	0.78
1:C:345:ASN:C	1:C:347:ASP:H	1.92	0.78
2:D:40:GLN:O	2:D:40:GLN:NE2	2.16	0.78
1:E:365:TYR:CE1	1:E:404:LYS:HB3	2.17	0.78
1:E:487:PHE:HB2	1:E:489:MET:HE2	1.63	0.78
1:G:47:HIS:C	1:G:50:MET:HB2	2.08	0.78
1:G:193:LEU:HD12	1:G:217:ILE:CG1	2.13	0.78
1:G:229:ARG:O	1:G:233:LYS:HD2	1.82	0.78
1:G:241:LEU:HD23	1:G:241:LEU:O	1.84	0.78
1:G:382:PRO:HB3	1:G:463:LEU:CD2	2.14	0.78
2:H:40:GLN:O	2:H:40:GLN:NE2	2.16	0.78
1:I:65:LEU:HD11	1:I:73:VAL:HG22	1.66	0.78
1:I:241:LEU:HD23	1:I:241:LEU:O	1.84	0.78
1:K:192:VAL:HB	1:K:221:ILE:HD12	1.62	0.78
1:K:360:LEU:HD11	1:K:405:LEU:HD21	1.62	0.78
1:O:46:ASP:HA	1:O:49:ILE:HG22	1.63	0.78
1:O:463:LEU:HB2	1:O:467:PHE:CD1	2.17	0.78
1:Q:65:LEU:HD11	1:Q:73:VAL:HG22	1.66	0.78
1:S:376:PRO:HB2	1:S:379:ALA:CB	2.13	0.78
1:S:382:PRO:HB3	1:S:463:LEU:CD2	2.14	0.78
1:U:19:PHE:CZ	1:U:92:ILE:HD11	2.19	0.78
1:U:65:LEU:HD11	1:U:73:VAL:HG22	1.66	0.78
1:W:19:PHE:CZ	1:W:92:ILE:HD11	2.19	0.78
1:a:463:LEU:HB2	1:a:467:PHE:CD1	2.17	0.78
1:c:65:LEU:HD11	1:c:73:VAL:HG22	1.66	0.78
1:A:65:LEU:HD11	1:A:73:VAL:HG22	1.66	0.78
1:A:241:LEU:HD23	1:A:241:LEU:O	1.84	0.78
1:A:345:ASN:C	1:A:347:ASP:H	1.92	0.78
1:A:371:ARG:HB3	1:A:389:ILE:HG12	1.65	0.78
1:C:39:ILE:HD11	1:C:76:PHE:HB2	1.66	0.78
1:E:19:PHE:CZ	1:E:92:ILE:HD11	2.19	0.78
1:E:65:LEU:HD11	1:E:73:VAL:HG22	1.66	0.78
1:E:86:LYS:CE	1:E:89:MET:HE1	2.11	0.78
1:E:216:ASN:HB2	1:E:219:LEU:HB3	1.64	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:F:40:GLN:NE2	2:F:40:GLN:O	2.16	0.78
1:G:203:ILE:HG23	1:G:237:TYR:HH	1.44	0.78
1:K:131:TYR:OH	1:K:167:SER:OG	2.00	0.78
1:M:65:LEU:HD11	1:M:73:VAL:HG22	1.66	0.78
1:O:459:ILE:HG23	1:O:497:LEU:HD11	1.65	0.78
1:Q:241:LEU:HD23	1:Q:241:LEU:O	1.84	0.78
2:R:40:GLN:NE2	2:R:40:GLN:O	2.16	0.78
1:S:241:LEU:HD23	1:S:241:LEU:O	1.84	0.78
1:S:300:LEU:CD1	1:S:304:TYR:OH	2.30	0.78
1:U:425:ILE:O	1:U:425:ILE:HD12	1.83	0.78
2:V:40:GLN:NE2	2:V:40:GLN:O	2.16	0.78
1:W:39:ILE:HD11	1:W:76:PHE:HB2	1.66	0.78
2:X:40:GLN:NE2	2:X:40:GLN:O	2.16	0.78
1:Y:47:HIS:C	1:Y:50:MET:HB2	2.08	0.78
1:Y:65:LEU:HD11	1:Y:73:VAL:HG22	1.66	0.78
1:a:229:ARG:O	1:a:233:LYS:HD2	1.82	0.78
1:c:131:TYR:OH	1:c:167:SER:OG	2.00	0.78
1:c:382:PRO:HB3	1:c:463:LEU:CD2	2.14	0.78
1:e:131:TYR:OH	1:e:167:SER:OG	2.00	0.78
1:E:371:ARG:HB3	1:E:389:ILE:HG12	1.65	0.78
1:K:39:ILE:HD11	1:K:76:PHE:HB2	1.66	0.78
1:M:374:VAL:HG23	1:M:375:PHE:CD1	2.19	0.78
1:M:459:ILE:HG23	1:M:497:LEU:HD11	1.65	0.78
1:O:229:ARG:O	1:O:233:LYS:HD2	1.82	0.78
1:Q:131:TYR:OH	1:Q:167:SER:OG	2.00	0.78
1:S:193:LEU:HD12	1:S:217:ILE:CG1	2.13	0.78
1:U:39:ILE:C	1:U:40:LEU:CD2	2.55	0.78
1:Y:131:TYR:OH	1:Y:167:SER:OG	2.00	0.78
1:Y:192:VAL:CG2	1:Y:221:ILE:HD12	2.14	0.78
1:Y:241:LEU:HD23	1:Y:241:LEU:O	1.84	0.78
2:Z:40:GLN:O	2:Z:40:GLN:NE2	2.16	0.78
1:c:374:VAL:HG23	1:c:375:PHE:CD1	2.19	0.78
1:e:39:ILE:HD11	1:e:76:PHE:HB2	1.66	0.78
1:e:87:PHE:HD1	1:e:88:LEU:HD12	1.47	0.78
1:A:39:ILE:HD11	1:A:76:PHE:HB2	1.66	0.78
1:A:178:ILE:HG21	1:A:241:LEU:CD2	2.02	0.78
1:C:288:HIS:CD2	1:C:288:HIS:H	1.99	0.78
1:E:360:LEU:CD1	1:E:405:LEU:CD2	2.41	0.78
1:E:425:ILE:O	1:E:425:ILE:HD12	1.83	0.78
1:G:49:ILE:O	1:G:51:SER:CB	2.32	0.78
1:G:371:ARG:CB	1:G:389:ILE:CG1	2.56	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:39:ILE:HD11	1:I:76:PHE:HB2	1.66	0.78
1:K:24:VAL:HG22	1:K:58:THR:CG2	2.07	0.78
1:M:360:LEU:HD11	1:M:405:LEU:HD21	1.62	0.78
1:M:382:PRO:HB3	1:M:463:LEU:CD2	2.14	0.78
1:O:49:ILE:O	1:O:51:SER:CB	2.32	0.78
1:Q:47:HIS:C	1:Q:50:MET:HB2	2.08	0.78
1:Q:166:LEU:HD23	1:Q:167:SER:N	1.98	0.78
1:Q:192:VAL:CG2	1:Q:221:ILE:HD12	2.14	0.78
1:S:49:ILE:O	1:S:51:SER:CB	2.32	0.78
1:S:229:ARG:O	1:S:233:LYS:HD2	1.82	0.78
1:U:24:VAL:CG2	1:U:58:THR:HG21	2.06	0.78
1:U:345:ASN:C	1:U:347:ASP:H	1.92	0.78
1:W:199:LEU:HD11	1:W:242:LEU:CD1	2.14	0.78
1:a:65:LEU:HD11	1:a:73:VAL:HG22	1.66	0.78
1:e:24:VAL:HG22	1:e:58:THR:CG2	2.07	0.78
1:e:374:VAL:HG23	1:e:375:PHE:CD1	2.19	0.78
1:A:216:ASN:HB2	1:A:219:LEU:HB3	1.64	0.77
2:B:40:GLN:NE2	2:B:40:GLN:O	2.16	0.77
1:C:199:LEU:HD11	1:C:242:LEU:CD1	2.14	0.77
1:C:459:ILE:HG23	1:C:497:LEU:HD11	1.65	0.77
1:E:39:ILE:C	1:E:40:LEU:CD2	2.55	0.77
1:I:216:ASN:HB2	1:I:219:LEU:HB3	1.64	0.77
1:I:345:ASN:C	1:I:347:ASP:H	1.92	0.77
1:K:374:VAL:HG23	1:K:375:PHE:CD1	2.19	0.77
1:O:65:LEU:HD11	1:O:73:VAL:HG22	1.66	0.77
1:O:199:LEU:HD11	1:O:242:LEU:CD1	2.14	0.77
1:O:229:ARG:HG2	1:O:229:ARG:HH21	1.47	0.77
1:O:237:TYR:O	1:O:239:ASN:N	2.16	0.77
1:O:374:VAL:HG23	1:O:375:PHE:CD1	2.19	0.77
1:Q:237:TYR:O	1:Q:239:ASN:N	2.16	0.77
1:Q:360:LEU:CD1	1:Q:405:LEU:CD2	2.41	0.77
1:S:65:LEU:HD11	1:S:73:VAL:HG22	1.66	0.77
1:S:371:ARG:CB	1:S:389:ILE:CG1	2.56	0.77
1:S:425:ILE:HD12	1:S:425:ILE:O	1.83	0.77
1:U:39:ILE:HD11	1:U:76:PHE:HB2	1.66	0.77
1:U:216:ASN:HB2	1:U:219:LEU:HB3	1.64	0.77
1:U:371:ARG:HB3	1:U:389:ILE:HG12	1.65	0.77
1:Y:166:LEU:HD23	1:Y:167:SER:N	1.98	0.77
1:Y:237:TYR:O	1:Y:239:ASN:N	2.16	0.77
1:a:49:ILE:O	1:a:51:SER:CB	2.32	0.77
1:a:166:LEU:HD23	1:a:167:SER:N	1.98	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:a:199:LEU:HD11	1:a:242:LEU:CD1	2.14	0.77
1:a:237:TYR:O	1:a:239:ASN:N	2.16	0.77
1:c:192:VAL:CG2	1:c:221:ILE:HD12	2.14	0.77
1:c:459:ILE:HG23	1:c:497:LEU:HD11	1.65	0.77
1:e:49:ILE:O	1:e:51:SER:CB	2.32	0.77
1:A:199:LEU:HD11	1:A:242:LEU:CD1	2.14	0.77
1:E:39:ILE:HD11	1:E:76:PHE:HB2	1.66	0.77
1:E:345:ASN:C	1:E:347:ASP:H	1.92	0.77
1:G:65:LEU:HD11	1:G:73:VAL:HG22	1.66	0.77
1:G:357:LEU:CD1	1:G:366:ARG:CD	2.54	0.77
1:I:199:LEU:HD11	1:I:242:LEU:CD1	2.14	0.77
1:K:49:ILE:O	1:K:51:SER:CB	2.32	0.77
1:K:87:PHE:HD1	1:K:88:LEU:HD12	1.47	0.77
1:K:241:LEU:HD23	1:K:241:LEU:O	1.84	0.77
1:M:192:VAL:CG2	1:M:221:ILE:HD12	2.14	0.77
1:M:229:ARG:O	1:M:233:LYS:HD2	1.82	0.77
1:Q:19:PHE:HZ	1:Q:92:ILE:CG1	1.90	0.77
1:Q:39:ILE:HD11	1:Q:76:PHE:HB2	1.66	0.77
1:Q:104:ARG:O	1:Q:107:ILE:HG22	1.85	0.77
1:W:360:LEU:CD1	1:W:405:LEU:CD2	2.41	0.77
1:Y:104:ARG:O	1:Y:107:ILE:HG22	1.85	0.77
1:Y:376:PRO:HB2	1:Y:379:ALA:CB	2.13	0.77
1:a:374:VAL:HG23	1:a:375:PHE:CD1	2.19	0.77
1:e:241:LEU:HD23	1:e:241:LEU:O	1.84	0.77
1:A:130:PRO:HG3	1:A:290:MET:HB3	1.67	0.77
1:A:382:PRO:HB3	1:A:463:LEU:CD2	2.14	0.77
1:C:130:PRO:HG3	1:C:290:MET:HB3	1.67	0.77
1:E:130:PRO:HG3	1:E:290:MET:HB3	1.67	0.77
1:E:410:LEU:HD22	1:E:427:LEU:HB2	1.67	0.77
1:G:410:LEU:HD22	1:G:427:LEU:HB2	1.67	0.77
1:G:425:ILE:HD12	1:G:425:ILE:O	1.83	0.77
1:I:130:PRO:HG3	1:I:290:MET:HB3	1.67	0.77
2:J:40:GLN:NE2	2:J:40:GLN:O	2.16	0.77
1:K:410:LEU:CD1	1:K:423:PRO:HD3	2.15	0.77
1:O:166:LEU:HD23	1:O:167:SER:N	1.98	0.77
1:Q:371:ARG:HB3	1:Q:389:ILE:HG12	1.65	0.77
1:S:345:ASN:C	1:S:347:ASP:H	1.92	0.77
1:S:360:LEU:HD11	1:S:405:LEU:HD21	1.62	0.77
1:S:410:LEU:HD22	1:S:427:LEU:HB2	1.67	0.77
1:U:130:PRO:HG3	1:U:290:MET:HB3	1.67	0.77
1:W:459:ILE:HG23	1:W:497:LEU:HD11	1.65	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Y:39:ILE:HD11	1:Y:76:PHE:HB2	1.66	0.77
1:Y:382:PRO:HB3	1:Y:463:LEU:CD2	2.14	0.77
1:a:131:TYR:OH	1:a:167:SER:OG	2.00	0.77
1:c:199:LEU:HD11	1:c:242:LEU:CD1	2.14	0.77
1:c:229:ARG:O	1:c:233:LYS:HD2	1.82	0.77
1:c:360:LEU:HD11	1:c:405:LEU:HD21	1.62	0.77
1:e:345:ASN:C	1:e:347:ASP:H	1.92	0.77
1:A:104:ARG:O	1:A:107:ILE:HG22	1.85	0.77
1:A:192:VAL:HB	1:A:221:ILE:HD12	1.62	0.77
1:E:193:LEU:HD12	1:E:217:ILE:CG1	2.13	0.77
1:G:39:ILE:HD11	1:G:76:PHE:HB2	1.66	0.77
2:H:82:ARG:HG3	2:H:82:ARG:NH1	2.00	0.77
1:M:174:MET:SD	1:M:241:LEU:HB3	2.25	0.77
1:M:199:LEU:HD11	1:M:242:LEU:CD1	2.14	0.77
1:O:376:PRO:HB2	1:O:379:ALA:CB	2.13	0.77
1:Q:345:ASN:C	1:Q:347:ASP:H	1.92	0.77
1:Q:376:PRO:HB2	1:Q:379:ALA:CB	2.13	0.77
1:U:360:LEU:CD1	1:U:405:LEU:CD2	2.41	0.77
1:U:410:LEU:HD22	1:U:427:LEU:HB2	1.67	0.77
1:W:130:PRO:HG3	1:W:290:MET:HB3	1.67	0.77
1:W:288:HIS:CD2	1:W:288:HIS:H	1.99	0.77
1:Y:357:LEU:CG	1:Y:430:LYS:HZ3	1.95	0.77
1:a:104:ARG:O	1:a:107:ILE:HG22	1.85	0.77
1:a:192:VAL:HB	1:a:221:ILE:HD12	1.62	0.77
1:a:229:ARG:HH21	1:a:229:ARG:HG2	1.47	0.77
1:c:174:MET:SD	1:c:241:LEU:HB3	2.25	0.77
1:e:130:PRO:HG3	1:e:290:MET:HB3	1.67	0.77
1:e:288:HIS:CD2	1:e:288:HIS:H	1.99	0.77
1:A:410:LEU:HD22	1:A:427:LEU:HB2	1.67	0.77
1:E:24:VAL:CG2	1:E:58:THR:HG21	2.06	0.77
1:E:104:ARG:O	1:E:107:ILE:HG22	1.85	0.77
1:G:345:ASN:C	1:G:347:ASP:H	1.92	0.77
1:G:360:LEU:HD11	1:G:405:LEU:HD21	1.62	0.77
1:I:104:ARG:O	1:I:107:ILE:HG22	1.85	0.77
1:I:382:PRO:HB3	1:I:463:LEU:CD2	2.14	0.77
1:I:425:ILE:O	1:I:425:ILE:HD12	1.83	0.77
1:K:130:PRO:HG3	1:K:290:MET:HB3	1.67	0.77
1:O:104:ARG:O	1:O:107:ILE:HG22	1.85	0.77
1:O:131:TYR:OH	1:O:167:SER:OG	2.00	0.77
1:Q:382:PRO:HB3	1:Q:463:LEU:CD2	2.14	0.77
1:S:39:ILE:HD11	1:S:76:PHE:HB2	1.66	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:T:82:ARG:HG3	2:T:82:ARG:NH1	2.00	0.77
1:U:104:ARG:O	1:U:107:ILE:HG22	1.85	0.77
1:U:382:PRO:HB3	1:U:463:LEU:CD2	2.14	0.77
1:Y:345:ASN:C	1:Y:347:ASP:H	1.92	0.77
1:Y:371:ARG:HB3	1:Y:389:ILE:HG12	1.65	0.77
1:a:376:PRO:HB2	1:a:379:ALA:CB	2.13	0.77
1:c:39:ILE:HD11	1:c:76:PHE:HB2	1.66	0.77
1:A:376:PRO:HB2	1:A:379:ALA:CB	2.13	0.77
1:C:87:PHE:CD1	1:C:88:LEU:CD1	2.68	0.77
1:C:203:ILE:CG2	1:C:237:TYR:OH	2.21	0.77
1:I:192:VAL:HB	1:I:221:ILE:HD12	1.62	0.77
1:I:410:LEU:HD22	1:I:427:LEU:HB2	1.67	0.77
1:K:345:ASN:C	1:K:347:ASP:H	1.92	0.77
1:M:39:ILE:HD11	1:M:76:PHE:HB2	1.66	0.77
1:O:35:MET:HE2	1:O:39:ILE:CD1	2.13	0.77
1:O:192:VAL:HB	1:O:221:ILE:HD12	1.62	0.77
1:Q:49:ILE:O	1:Q:51:SER:CB	2.32	0.77
1:S:357:LEU:CD1	1:S:366:ARG:CD	2.54	0.77
1:U:193:LEU:HD12	1:U:217:ILE:CG1	2.13	0.77
1:W:87:PHE:CD1	1:W:88:LEU:CD1	2.68	0.77
1:Y:49:ILE:O	1:Y:51:SER:CB	2.32	0.77
1:c:411:VAL:H	1:c:422:ILE:HG23	1.50	0.77
1:e:376:PRO:HB2	1:e:379:ALA:CB	2.13	0.77
1:A:374:VAL:HG23	1:A:375:PHE:CD1	2.19	0.77
1:A:425:ILE:O	1:A:425:ILE:HD12	1.83	0.77
1:A:479:GLU:HB3	1:A:481:PRO:HD2	1.67	0.77
1:C:376:PRO:HD2	1:C:470:HIS:CD2	2.20	0.77
1:E:47:HIS:C	1:E:50:MET:HB2	2.08	0.77
1:E:382:PRO:HB3	1:E:463:LEU:CD2	2.14	0.77
1:G:130:PRO:HG3	1:G:290:MET:HB3	1.67	0.77
1:I:479:GLU:HB3	1:I:481:PRO:HD2	1.67	0.77
1:K:288:HIS:CD2	1:K:288:HIS:H	1.99	0.77
1:M:376:PRO:HD2	1:M:470:HIS:CD2	2.20	0.77
1:M:411:VAL:H	1:M:422:ILE:HG23	1.50	0.77
1:O:411:VAL:H	1:O:422:ILE:HG23	1.50	0.77
1:Q:39:ILE:C	1:Q:40:LEU:CD2	2.55	0.77
1:S:19:PHE:CZ	1:S:92:ILE:HD11	2.19	0.77
1:S:216:ASN:HB2	1:S:219:LEU:HB3	1.64	0.77
1:U:178:ILE:HG21	1:U:241:LEU:CD2	2.02	0.77
1:W:376:PRO:HD2	1:W:470:HIS:CD2	2.20	0.77
1:a:411:VAL:H	1:a:422:ILE:HG23	1.50	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:c:376:PRO:HD2	1:c:470:HIS:CD2	2.20	0.77
1:e:203:ILE:HG23	1:e:237:TYR:HH	1.49	0.77
1:C:193:LEU:HD12	1:C:217:ILE:CG1	2.13	0.77
1:C:371:ARG:HB3	1:C:389:ILE:HG12	1.65	0.77
1:E:39:ILE:CG1	1:E:40:LEU:HD23	2.13	0.77
1:I:374:VAL:HG23	1:I:375:PHE:CD1	2.19	0.77
1:I:376:PRO:HB2	1:I:379:ALA:CB	2.13	0.77
1:K:376:PRO:HB2	1:K:379:ALA:CB	2.13	0.77
1:M:376:PRO:HB2	1:M:379:ALA:CB	2.13	0.77
1:Q:193:LEU:HD12	1:Q:217:ILE:CG1	2.13	0.77
1:Q:374:VAL:HG23	1:Q:375:PHE:CD1	2.19	0.77
1:S:130:PRO:HG3	1:S:290:MET:HB3	1.67	0.77
1:S:186:CYS:O	1:S:191:THR:CG2	2.33	0.77
1:U:47:HIS:C	1:U:50:MET:HB2	2.08	0.77
1:U:87:PHE:CD1	1:U:88:LEU:CD1	2.68	0.77
1:W:371:ARG:HB3	1:W:389:ILE:HG12	1.65	0.77
1:W:425:ILE:HD12	1:W:425:ILE:O	1.83	0.77
1:Y:360:LEU:CD1	1:Y:405:LEU:CD2	2.41	0.77
1:a:35:MET:HE2	1:a:39:ILE:CD1	2.13	0.77
1:a:241:LEU:HD23	1:a:241:LEU:O	1.84	0.77
1:e:192:VAL:CG2	1:e:221:ILE:HD12	2.14	0.77
1:A:410:LEU:CD1	1:A:423:PRO:HD3	2.15	0.77
1:C:425:ILE:HD12	1:C:425:ILE:O	1.83	0.77
1:E:87:PHE:CD1	1:E:88:LEU:CD1	2.68	0.77
1:E:186:CYS:O	1:E:191:THR:CG2	2.33	0.77
1:G:19:PHE:CZ	1:G:92:ILE:HD11	2.19	0.77
1:G:186:CYS:O	1:G:191:THR:CG2	2.33	0.77
1:G:232:LEU:C	1:G:234:SER:H	1.93	0.77
1:G:479:GLU:HB3	1:G:481:PRO:HD2	1.67	0.77
1:K:47:HIS:C	1:K:50:MET:HB2	2.08	0.77
1:K:479:GLU:HB3	1:K:481:PRO:HD2	1.67	0.77
1:O:241:LEU:HD23	1:O:241:LEU:O	1.84	0.77
1:O:376:PRO:HD2	1:O:470:HIS:CD2	2.20	0.77
1:Q:19:PHE:CZ	1:Q:92:ILE:HD11	2.19	0.77
1:S:183:LEU:HD22	1:S:186:CYS:HG	0.95	0.77
1:U:186:CYS:O	1:U:191:THR:CG2	2.33	0.77
1:W:49:ILE:O	1:W:51:SER:CB	2.32	0.77
1:W:104:ARG:O	1:W:107:ILE:HG22	1.85	0.77
1:Y:39:ILE:C	1:Y:40:LEU:CD2	2.55	0.77
1:Y:374:VAL:HG23	1:Y:375:PHE:CD1	2.19	0.77
1:e:479:GLU:HB3	1:e:481:PRO:HD2	1.67	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:49:ILE:O	1:C:51:SER:CB	2.32	0.77
1:C:104:ARG:O	1:C:107:ILE:HG22	1.85	0.77
1:E:357:LEU:CD1	1:E:366:ARG:CD	2.54	0.77
1:G:118:GLN:HE21	1:I:279:THR:HG21	1.48	0.77
1:G:183:LEU:HD22	1:G:186:CYS:HG	0.95	0.77
1:G:216:ASN:HB2	1:G:219:LEU:HB3	1.64	0.77
1:K:104:ARG:O	1:K:107:ILE:HG22	1.85	0.77
1:K:192:VAL:CG2	1:K:221:ILE:HD12	2.14	0.77
1:K:376:PRO:HD2	1:K:470:HIS:CD2	2.20	0.77
1:O:174:MET:SD	1:O:241:LEU:HB3	2.25	0.77
1:O:193:LEU:HD12	1:O:217:ILE:CG1	2.13	0.77
1:O:360:LEU:CD1	1:O:405:LEU:CD2	2.41	0.77
1:Q:130:PRO:HG3	1:Q:290:MET:HB3	1.67	0.77
1:S:232:LEU:C	1:S:234:SER:H	1.93	0.77
1:S:479:GLU:HB3	1:S:481:PRO:HD2	1.67	0.77
1:U:376:PRO:HD2	1:U:470:HIS:CD2	2.20	0.77
1:W:410:LEU:HD22	1:W:427:LEU:HB2	1.67	0.77
1:W:479:GLU:HB3	1:W:481:PRO:HD2	1.67	0.77
1:a:174:MET:SD	1:a:241:LEU:HB3	2.25	0.77
1:a:371:ARG:HB3	1:a:389:ILE:HG12	1.65	0.77
1:a:376:PRO:HD2	1:a:470:HIS:CD2	2.20	0.77
1:c:376:PRO:HB2	1:c:379:ALA:CB	2.13	0.77
1:e:216:ASN:HB2	1:e:219:LEU:HB3	1.64	0.77
1:C:479:GLU:HB3	1:C:481:PRO:HD2	1.67	0.76
1:E:376:PRO:HD2	1:E:470:HIS:CD2	2.20	0.76
1:G:104:ARG:O	1:G:107:ILE:HG22	1.85	0.76
1:I:410:LEU:CD1	1:I:423:PRO:HD3	2.15	0.76
1:K:199:LEU:HD11	1:K:242:LEU:CD1	2.14	0.76
1:K:216:ASN:HB2	1:K:219:LEU:HB3	1.64	0.76
1:K:371:ARG:CB	1:K:389:ILE:CG1	2.56	0.76
1:M:130:PRO:HG3	1:M:290:MET:HB3	1.67	0.76
1:O:39:ILE:HD11	1:O:76:PHE:HB2	1.66	0.76
1:O:371:ARG:HB3	1:O:389:ILE:HG12	1.65	0.76
1:S:423:PRO:O	1:S:427:LEU:HB2	1.85	0.76
1:U:479:GLU:HB3	1:U:481:PRO:HD2	1.67	0.76
1:W:193:LEU:HD12	1:W:217:ILE:CG1	2.13	0.76
1:W:203:ILE:CG2	1:W:237:TYR:OH	2.21	0.76
1:Y:19:PHE:CZ	1:Y:92:ILE:HD11	2.19	0.76
1:Y:130:PRO:HG3	1:Y:290:MET:HB3	1.67	0.76
1:Y:193:LEU:HD12	1:Y:217:ILE:CG1	2.13	0.76
1:a:30:LYS:HB3	2:b:51:ASN:HD22	1.50	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:c:216:ASN:HB2	1:c:219:LEU:HB3	1.64	0.76
1:e:47:HIS:C	1:e:50:MET:HB2	2.08	0.76
1:e:104:ARG:O	1:e:107:ILE:HG22	1.85	0.76
1:e:371:ARG:CB	1:e:389:ILE:CG1	2.56	0.76
1:e:376:PRO:HD2	1:e:470:HIS:CD2	2.20	0.76
1:A:186:CYS:O	1:A:191:THR:CG2	2.33	0.76
1:C:192:VAL:CG2	1:C:221:ILE:HD12	2.14	0.76
1:C:410:LEU:HD22	1:C:427:LEU:HB2	1.67	0.76
1:E:479:GLU:HB3	1:E:481:PRO:HD2	1.67	0.76
2:F:82:ARG:HG3	2:F:82:ARG:NH1	2.00	0.76
1:G:423:PRO:O	1:G:427:LEU:HB2	1.85	0.76
1:I:279:THR:C	1:I:280:THR:HG22	2.10	0.76
1:K:87:PHE:CD1	1:K:88:LEU:CD1	2.68	0.76
1:K:174:MET:SD	1:K:241:LEU:HB3	2.25	0.76
1:M:237:TYR:O	1:M:239:ASN:N	2.16	0.76
1:O:30:LYS:HB3	2:P:51:ASN:HD22	1.50	0.76
1:O:130:PRO:HG3	1:O:290:MET:HB3	1.67	0.76
1:Q:410:LEU:HD22	1:Q:427:LEU:HB2	1.67	0.76
1:Q:411:VAL:H	1:Q:422:ILE:HG23	1.50	0.76
1:W:192:VAL:CG2	1:W:221:ILE:HD12	2.14	0.76
1:Y:410:LEU:HD22	1:Y:427:LEU:HB2	1.67	0.76
1:Y:411:VAL:H	1:Y:422:ILE:HG23	1.50	0.76
1:a:39:ILE:HD11	1:a:76:PHE:HB2	1.66	0.76
1:e:30:LYS:HB3	2:f:51:ASN:HD22	1.50	0.76
1:e:174:MET:SD	1:e:241:LEU:HB3	2.25	0.76
1:e:199:LEU:HD11	1:e:242:LEU:CD1	2.14	0.76
1:e:411:VAL:H	1:e:422:ILE:HG23	1.50	0.76
1:E:87:PHE:HD2	2:F:83:GLY:HA2	1.43	0.76
1:E:241:LEU:HD21	1:E:243:VAL:CG1	2.16	0.76
1:I:288:HIS:CD2	1:I:288:HIS:H	1.99	0.76
1:I:423:PRO:O	1:I:427:LEU:HB2	1.85	0.76
1:K:30:LYS:HB3	2:L:51:ASN:HD22	1.50	0.76
1:K:241:LEU:HD21	1:K:243:VAL:CG1	2.16	0.76
1:K:411:VAL:H	1:K:422:ILE:HG23	1.50	0.76
1:M:87:PHE:CD1	1:M:88:LEU:CD1	2.68	0.76
1:O:423:PRO:O	1:O:427:LEU:HB2	1.85	0.76
1:Q:188:SER:O	1:Q:191:THR:CG2	2.28	0.76
1:S:104:ARG:O	1:S:107:ILE:HG22	1.85	0.76
1:U:241:LEU:HD21	1:U:243:VAL:CG1	2.16	0.76
2:V:82:ARG:HG3	2:V:82:ARG:NH1	2.00	0.76
1:a:130:PRO:HG3	1:a:290:MET:HB3	1.67	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:a:193:LEU:HD12	1:a:217:ILE:CG1	2.13	0.76
1:c:130:PRO:HG3	1:c:290:MET:HB3	1.67	0.76
1:c:237:TYR:O	1:c:239:ASN:N	2.16	0.76
1:e:87:PHE:CD1	1:e:88:LEU:CD1	2.68	0.76
1:A:279:THR:HG21	1:S:118:GLN:HE21	1.48	0.76
1:A:423:PRO:O	1:A:427:LEU:HB2	1.85	0.76
1:C:39:ILE:C	1:C:40:LEU:CD2	2.55	0.76
1:C:423:PRO:O	1:C:427:LEU:HB2	1.85	0.76
1:E:232:LEU:C	1:E:234:SER:H	1.93	0.76
1:G:360:LEU:CD1	1:G:405:LEU:CD2	2.41	0.76
1:I:186:CYS:O	1:I:191:THR:CG2	2.33	0.76
1:I:242:LEU:HD21	1:I:244:LEU:HD11	1.68	0.76
1:I:376:PRO:HD2	1:I:470:HIS:CD2	2.20	0.76
1:K:158:THR:HG23	1:K:159:TRP:HD1	1.51	0.76
1:M:216:ASN:HB2	1:M:219:LEU:HB3	1.64	0.76
1:M:371:ARG:HB3	1:M:389:ILE:HG12	1.65	0.76
1:O:158:THR:HG23	1:O:159:TRP:HD1	1.51	0.76
1:O:232:LEU:C	1:O:234:SER:H	1.93	0.76
1:Q:423:PRO:O	1:Q:427:LEU:HB2	1.85	0.76
1:U:357:LEU:CD1	1:U:366:ARG:CD	2.54	0.76
1:W:423:PRO:O	1:W:427:LEU:HB2	1.85	0.76
1:a:232:LEU:C	1:a:234:SER:H	1.93	0.76
1:c:49:ILE:O	1:c:51:SER:CB	2.32	0.76
1:c:87:PHE:CD1	1:c:88:LEU:CD1	2.68	0.76
1:c:192:VAL:HB	1:c:221:ILE:HD12	1.62	0.76
1:e:241:LEU:HD21	1:e:243:VAL:CG1	2.16	0.76
1:A:242:LEU:HD21	1:A:244:LEU:HD11	1.68	0.76
1:A:376:PRO:HD2	1:A:470:HIS:CD2	2.20	0.76
1:C:174:MET:SD	1:C:241:LEU:HB3	2.25	0.76
1:E:410:LEU:CD1	1:E:423:PRO:HD3	2.15	0.76
1:K:188:SER:O	1:K:191:THR:CG2	2.28	0.76
1:K:203:ILE:HG23	1:K:237:TYR:HH	1.50	0.76
1:M:30:LYS:HB3	2:N:51:ASN:HD22	1.50	0.76
1:M:158:THR:HG23	1:M:159:TRP:HD1	1.51	0.76
1:O:371:ARG:CD	1:O:389:ILE:HD12	1.76	0.76
1:Q:279:THR:C	1:Q:280:THR:HG22	2.10	0.76
1:Q:479:GLU:HB3	1:Q:481:PRO:HD2	1.67	0.76
1:W:174:MET:SD	1:W:241:LEU:HB3	2.25	0.76
1:W:186:CYS:O	1:W:191:THR:CG2	2.33	0.76
1:Y:376:PRO:HD2	1:Y:470:HIS:CD2	2.20	0.76
1:Y:423:PRO:O	1:Y:427:LEU:HB2	1.85	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Y:479:GLU:HB3	1:Y:481:PRO:HD2	1.67	0.76
1:a:158:THR:HG23	1:a:159:TRP:HD1	1.51	0.76
1:a:423:PRO:O	1:a:427:LEU:HB2	1.85	0.76
1:c:30:LYS:HB3	2:d:51:ASN:HD22	1.50	0.76
1:e:158:THR:HG23	1:e:159:TRP:HD1	1.51	0.76
1:A:87:PHE:CD1	1:A:88:LEU:CD1	2.68	0.76
1:A:360:LEU:HD11	1:A:405:LEU:HD21	1.62	0.76
1:C:186:CYS:O	1:C:191:THR:CG2	2.33	0.76
1:G:29:CYS:HA	1:G:32:VAL:HG23	1.68	0.76
1:I:19:PHE:CZ	1:I:92:ILE:HD11	2.19	0.76
1:I:87:PHE:CD1	1:I:88:LEU:CD1	2.68	0.76
1:M:49:ILE:O	1:M:51:SER:CB	2.32	0.76
1:M:241:LEU:HD23	1:M:241:LEU:O	1.84	0.76
1:M:410:LEU:CD1	1:M:423:PRO:HD3	2.15	0.76
1:U:49:ILE:O	1:U:51:SER:CB	2.32	0.76
1:U:232:LEU:C	1:U:234:SER:H	1.93	0.76
1:U:410:LEU:CD1	1:U:423:PRO:HD3	2.15	0.76
1:W:131:TYR:OH	1:W:167:SER:OG	2.00	0.76
1:Y:188:SER:O	1:Y:191:THR:CG2	2.28	0.76
1:Y:241:LEU:HD21	1:Y:243:VAL:CG1	2.16	0.76
1:a:360:LEU:CD1	1:a:405:LEU:CD2	2.41	0.76
1:c:158:THR:HG23	1:c:159:TRP:HD1	1.51	0.76
1:c:371:ARG:HB3	1:c:389:ILE:HG12	1.65	0.76
1:e:242:LEU:HD21	1:e:244:LEU:HD11	1.68	0.76
1:A:288:HIS:CD2	1:A:288:HIS:H	1.99	0.76
1:E:29:CYS:HA	1:E:32:VAL:HG23	1.68	0.76
1:E:49:ILE:O	1:E:51:SER:CB	2.32	0.76
1:E:174:MET:SD	1:E:241:LEU:HB3	2.25	0.76
1:G:87:PHE:CD1	1:G:88:LEU:CD1	2.68	0.76
1:I:158:THR:HG23	1:I:159:TRP:HD1	1.51	0.76
1:K:19:PHE:CZ	1:K:92:ILE:HD11	2.19	0.76
1:K:242:LEU:HD21	1:K:244:LEU:HD11	1.68	0.76
1:K:410:LEU:HD22	1:K:427:LEU:HB2	1.67	0.76
1:M:360:LEU:CD1	1:M:405:LEU:CD2	2.41	0.76
1:Q:30:LYS:HB3	2:R:51:ASN:HD22	1.50	0.76
1:Q:87:PHE:CD1	1:Q:88:LEU:CD1	2.68	0.76
1:Q:174:MET:SD	1:Q:241:LEU:HB3	2.25	0.76
1:Q:241:LEU:HD21	1:Q:243:VAL:CG1	2.16	0.76
1:Q:376:PRO:HD2	1:Q:470:HIS:CD2	2.20	0.76
1:S:374:VAL:HG23	1:S:375:PHE:CD1	2.19	0.76
1:U:29:CYS:HA	1:U:32:VAL:HG23	1.68	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:W:39:ILE:C	1:W:40:LEU:CD2	2.55	0.76
1:W:357:LEU:HG	1:W:430:LYS:HZ3	1.51	0.76
1:Y:30:LYS:HB3	2:Z:51:ASN:HD22	1.50	0.76
1:Y:174:MET:SD	1:Y:241:LEU:HB3	2.25	0.76
1:Y:279:THR:C	1:Y:280:THR:HG22	2.10	0.76
1:c:410:LEU:CD1	1:c:423:PRO:HD3	2.15	0.76
1:e:410:LEU:HD22	1:e:427:LEU:HB2	1.67	0.76
1:A:19:PHE:CZ	1:A:92:ILE:HD11	2.19	0.76
1:A:192:VAL:CG2	1:A:221:ILE:HD12	2.14	0.76
1:A:241:LEU:HD21	1:A:243:VAL:CG1	2.16	0.76
1:A:365:TYR:HE1	1:A:404:LYS:HB3	1.51	0.76
1:C:374:VAL:HG23	1:C:375:PHE:CD1	2.19	0.76
1:E:87:PHE:HD2	2:F:83:GLY:CA	1.97	0.76
1:G:374:VAL:HG23	1:G:375:PHE:CD1	2.19	0.76
1:I:360:LEU:HD11	1:I:405:LEU:HD21	1.62	0.76
1:M:192:VAL:HB	1:M:221:ILE:HD12	1.62	0.76
1:M:232:LEU:C	1:M:234:SER:H	1.93	0.76
1:Q:199:LEU:HD11	1:Q:242:LEU:CD1	2.14	0.76
1:Q:357:LEU:CG	1:Q:430:LYS:HZ3	1.96	0.76
1:S:29:CYS:HA	1:S:32:VAL:HG23	1.68	0.76
1:S:87:PHE:CD1	1:S:88:LEU:CD1	2.68	0.76
1:U:87:PHE:HD2	2:V:83:GLY:CA	1.97	0.76
1:Y:87:PHE:CD1	1:Y:88:LEU:CD1	2.68	0.76
1:c:232:LEU:C	1:c:234:SER:H	1.93	0.76
1:c:241:LEU:HD23	1:c:241:LEU:O	1.84	0.76
1:c:371:ARG:CB	1:c:389:ILE:CG1	2.56	0.76
1:e:19:PHE:CZ	1:e:92:ILE:HD11	2.19	0.76
1:e:188:SER:O	1:e:191:THR:CG2	2.28	0.76
1:A:158:THR:HG23	1:A:159:TRP:HD1	1.51	0.76
1:G:158:THR:HG23	1:G:159:TRP:HD1	1.51	0.76
1:G:241:LEU:HD21	1:G:243:VAL:CG1	2.16	0.76
1:I:365:TYR:HE1	1:I:404:LYS:HB3	1.51	0.76
1:M:19:PHE:CZ	1:M:92:ILE:HD11	2.19	0.76
1:M:193:LEU:HD12	1:M:217:ILE:CG1	2.13	0.76
1:S:376:PRO:HD2	1:S:470:HIS:CD2	2.20	0.76
1:U:174:MET:SD	1:U:241:LEU:HB3	2.25	0.76
1:U:192:VAL:CG2	1:U:221:ILE:HD12	2.14	0.76
1:W:374:VAL:HG23	1:W:375:PHE:CD1	2.19	0.76
1:c:479:GLU:HB3	1:c:481:PRO:HD2	1.67	0.76
1:A:120:PHE:CE1	1:A:124:ASN:CG	2.64	0.76
1:C:410:LEU:HD12	1:C:411:VAL:N	1.99	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:129:GLN:HB3	1:E:130:PRO:CD	2.15	0.76
1:G:376:PRO:HD2	1:G:470:HIS:CD2	2.20	0.76
1:I:192:VAL:CG2	1:I:221:ILE:HD12	2.14	0.76
1:I:241:LEU:HD21	1:I:243:VAL:CG1	2.16	0.76
1:M:410:LEU:HD22	1:M:427:LEU:HB2	1.67	0.76
1:M:423:PRO:O	1:M:427:LEU:HB2	1.85	0.76
1:O:183:LEU:HD22	1:O:186:CYS:HG	0.93	0.76
1:O:242:LEU:HD21	1:O:244:LEU:HD11	1.68	0.76
1:O:410:LEU:HD22	1:O:427:LEU:HB2	1.67	0.76
1:O:479:GLU:HB3	1:O:481:PRO:HD2	1.67	0.76
1:Q:410:LEU:HD12	1:Q:411:VAL:N	1.99	0.76
1:S:241:LEU:HD21	1:S:243:VAL:CG1	2.16	0.76
1:S:360:LEU:CD1	1:S:405:LEU:CD2	2.41	0.76
1:U:129:GLN:HB3	1:U:130:PRO:CD	2.15	0.76
1:W:30:LYS:HB3	2:X:51:ASN:HD22	1.50	0.76
1:Y:199:LEU:HD11	1:Y:242:LEU:CD1	2.14	0.76
1:Y:410:LEU:HD12	1:Y:411:VAL:N	1.99	0.76
1:a:242:LEU:HD21	1:a:244:LEU:HD11	1.68	0.76
1:a:410:LEU:HD22	1:a:427:LEU:HB2	1.67	0.76
1:c:19:PHE:CZ	1:c:92:ILE:HD11	2.19	0.76
1:c:104:ARG:O	1:c:107:ILE:HG22	1.85	0.76
1:c:369:PHE:CZ	1:c:410:LEU:HD11	2.21	0.76
1:A:411:VAL:H	1:A:422:ILE:HG23	1.50	0.75
1:C:30:LYS:HB3	2:D:51:ASN:HD22	1.50	0.75
1:C:120:PHE:CE1	1:C:124:ASN:CG	2.64	0.75
1:E:192:VAL:CG2	1:E:221:ILE:HD12	2.14	0.75
1:K:120:PHE:CE1	1:K:124:ASN:CG	2.64	0.75
1:M:345:ASN:C	1:M:347:ASP:N	2.42	0.75
1:M:369:PHE:CZ	1:M:410:LEU:HD11	2.21	0.75
1:M:479:GLU:HB3	1:M:481:PRO:HD2	1.67	0.75
1:Q:386:LEU:O	1:Q:389:ILE:HG23	1.87	0.75
1:S:158:THR:HG23	1:S:159:TRP:HD1	1.51	0.75
1:U:488:ARG:HH11	1:U:488:ARG:CG	1.99	0.75
1:W:120:PHE:CE1	1:W:124:ASN:CG	2.64	0.75
1:a:371:ARG:CD	1:a:389:ILE:HD12	1.76	0.75
1:a:479:GLU:HB3	1:a:481:PRO:HD2	1.67	0.75
1:c:410:LEU:HD22	1:c:427:LEU:HB2	1.67	0.75
1:C:232:LEU:C	1:C:234:SER:H	1.93	0.75
1:E:374:VAL:HG23	1:E:375:PHE:CD1	2.19	0.75
1:E:386:LEU:O	1:E:389:ILE:HG23	1.87	0.75
1:E:488:ARG:HH11	1:E:488:ARG:CG	1.99	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:488:ARG:CG	1:G:488:ARG:HH11	1.99	0.75
1:I:120:PHE:CE1	1:I:124:ASN:CG	2.64	0.75
1:I:360:LEU:CD1	1:I:405:LEU:CD2	2.41	0.75
1:I:411:VAL:H	1:I:422:ILE:HG23	1.50	0.75
1:K:360:LEU:CD1	1:K:405:LEU:CD2	2.41	0.75
1:K:369:PHE:CZ	1:K:410:LEU:HD11	2.22	0.75
1:M:371:ARG:CB	1:M:389:ILE:CG1	2.56	0.75
1:O:241:LEU:HD21	1:O:243:VAL:CG1	2.16	0.75
1:S:488:ARG:CG	1:S:488:ARG:HH11	1.99	0.75
1:U:374:VAL:HG23	1:U:375:PHE:CD1	2.19	0.75
1:U:386:LEU:O	1:U:389:ILE:HG23	1.87	0.75
1:W:410:LEU:HD12	1:W:411:VAL:N	1.99	0.75
1:Y:386:LEU:O	1:Y:389:ILE:HG23	1.87	0.75
1:c:193:LEU:HD12	1:c:217:ILE:CG1	2.13	0.75
1:c:241:LEU:HD21	1:c:243:VAL:CG1	2.16	0.75
1:c:386:LEU:O	1:c:389:ILE:HG23	1.87	0.75
1:c:423:PRO:O	1:c:427:LEU:HB2	1.85	0.75
1:e:120:PHE:CE1	1:e:124:ASN:CG	2.64	0.75
1:e:369:PHE:CZ	1:e:410:LEU:HD11	2.22	0.75
1:C:354:GLU:HG2	1:C:430:LYS:HZ2	1.49	0.75
1:C:411:VAL:H	1:C:422:ILE:HG23	1.50	0.75
1:E:411:VAL:H	1:E:422:ILE:HG23	1.50	0.75
1:I:29:CYS:HA	1:I:32:VAL:HG23	1.68	0.75
1:M:104:ARG:O	1:M:107:ILE:HG22	1.85	0.75
1:M:241:LEU:HD21	1:M:243:VAL:CG1	2.16	0.75
1:M:386:LEU:O	1:M:389:ILE:HG23	1.87	0.75
1:S:24:VAL:CG2	1:S:58:THR:HG21	2.06	0.75
1:U:192:VAL:HB	1:U:221:ILE:HD12	1.62	0.75
1:W:411:VAL:H	1:W:422:ILE:HG23	1.50	0.75
1:a:241:LEU:HD21	1:a:243:VAL:CG1	2.16	0.75
1:a:369:PHE:CZ	1:a:410:LEU:HD11	2.22	0.75
1:c:29:CYS:HA	1:c:32:VAL:HG23	1.68	0.75
1:A:111:ASP:CG	1:e:142:ARG:HH12	1.94	0.75
1:A:172:CYS:HG	1:A:176:PHE:HZ	0.83	0.75
1:E:120:PHE:CE1	1:E:124:ASN:CG	2.64	0.75
1:E:192:VAL:HB	1:E:221:ILE:HD12	1.62	0.75
1:E:423:PRO:O	1:E:427:LEU:HB2	1.85	0.75
1:G:129:GLN:HB3	1:G:130:PRO:CD	2.15	0.75
1:I:111:ASP:CG	1:K:142:ARG:HH12	1.94	0.75
1:M:29:CYS:HA	1:M:32:VAL:HG23	1.68	0.75
1:O:345:ASN:C	1:O:347:ASP:N	2.42	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:O:345:ASN:C	1:O:347:ASP:H	1.92	0.75
1:O:369:PHE:CZ	1:O:410:LEU:HD11	2.22	0.75
1:U:411:VAL:H	1:U:422:ILE:HG23	1.50	0.75
1:W:232:LEU:C	1:W:234:SER:H	1.93	0.75
1:a:87:PHE:CD1	1:a:88:LEU:CD1	2.68	0.75
1:a:371:ARG:CB	1:a:389:ILE:CG1	2.56	0.75
1:a:386:LEU:O	1:a:389:ILE:HG23	1.87	0.75
1:c:360:LEU:CD1	1:c:405:LEU:CD2	2.41	0.75
1:e:186:CYS:O	1:e:191:THR:CG2	2.33	0.75
1:A:29:CYS:HA	1:A:32:VAL:HG23	1.68	0.75
1:A:106:TYR:O	1:A:109:GLN:N	2.20	0.75
1:A:129:GLN:HB3	1:A:130:PRO:CD	2.15	0.75
1:A:142:ARG:HH12	1:S:111:ASP:CG	1.94	0.75
1:A:229:ARG:O	1:A:233:LYS:HE3	1.87	0.75
1:A:538:LEU:HD11	1:A:572:ALA:HB2	1.69	0.75
1:C:488:ARG:HH11	1:C:488:ARG:CG	1.99	0.75
1:E:357:LEU:HG	1:E:430:LYS:HZ3	1.52	0.75
1:G:24:VAL:CG2	1:G:58:THR:HG21	2.06	0.75
1:G:111:ASP:CG	1:I:142:ARG:HH12	1.94	0.75
1:I:106:TYR:O	1:I:109:GLN:N	2.20	0.75
1:I:172:CYS:HG	1:I:176:PHE:HZ	0.83	0.75
1:I:229:ARG:O	1:I:233:LYS:HE3	1.87	0.75
1:K:106:TYR:O	1:K:109:GLN:N	2.20	0.75
1:M:120:PHE:CE1	1:M:124:ASN:CG	2.64	0.75
1:O:87:PHE:CD1	1:O:88:LEU:CD1	2.68	0.75
1:O:386:LEU:O	1:O:389:ILE:HG23	1.87	0.75
1:S:129:GLN:HB3	1:S:130:PRO:CD	2.15	0.75
1:U:357:LEU:HG	1:U:430:LYS:HZ3	1.52	0.75
1:W:39:ILE:CG1	1:W:40:LEU:HD23	2.14	0.75
1:W:488:ARG:CG	1:W:488:ARG:HH11	1.99	0.75
1:Y:120:PHE:CE1	1:Y:124:ASN:CG	2.64	0.75
1:a:345:ASN:C	1:a:347:ASP:N	2.42	0.75
1:c:39:ILE:CG1	1:c:40:LEU:HD23	2.13	0.75
1:c:365:TYR:HE1	1:c:404:LYS:HB3	1.51	0.75
1:e:106:TYR:O	1:e:109:GLN:N	2.20	0.75
1:G:229:ARG:O	1:G:233:LYS:HE3	1.87	0.75
1:G:305:LEU:HD13	1:G:305:LEU:O	1.87	0.75
1:G:386:LEU:O	1:G:389:ILE:HG23	1.87	0.75
1:G:538:LEU:HD11	1:G:572:ALA:HB2	1.69	0.75
1:I:129:GLN:HB3	1:I:130:PRO:CD	2.15	0.75
1:I:183:LEU:CD2	1:I:186:CYS:HG	1.83	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:386:LEU:O	1:I:389:ILE:HG23	1.87	0.75
1:I:538:LEU:HD11	1:I:572:ALA:HB2	1.69	0.75
1:K:186:CYS:O	1:K:191:THR:CG2	2.33	0.75
1:K:229:ARG:O	1:K:233:LYS:HE3	1.87	0.75
1:K:386:LEU:O	1:K:389:ILE:HG23	1.87	0.75
1:M:365:TYR:HE1	1:M:404:LYS:HB3	1.51	0.75
1:O:29:CYS:HA	1:O:32:VAL:HG23	1.68	0.75
1:O:86:LYS:CE	1:O:89:MET:HE3	2.08	0.75
1:Q:186:CYS:O	1:Q:191:THR:CG2	2.33	0.75
1:S:192:VAL:CG2	1:S:221:ILE:HD12	2.14	0.75
1:S:305:LEU:HD13	1:S:305:LEU:O	1.87	0.75
1:S:538:LEU:HD11	1:S:572:ALA:HB2	1.69	0.75
1:U:120:PHE:CE1	1:U:124:ASN:CG	2.64	0.75
1:U:423:PRO:O	1:U:427:LEU:HB2	1.85	0.75
1:Y:186:CYS:O	1:Y:191:THR:CG2	2.33	0.75
1:Y:327:ILE:CD1	1:Y:341:TRP:HZ3	1.89	0.75
1:a:29:CYS:HA	1:a:32:VAL:HG23	1.68	0.75
1:c:24:VAL:CG2	1:c:58:THR:HG21	2.06	0.75
1:c:345:ASN:C	1:c:347:ASP:H	1.92	0.75
1:c:357:LEU:HG	1:c:430:LYS:HZ3	1.51	0.75
1:e:229:ARG:O	1:e:233:LYS:HE3	1.87	0.75
1:e:386:LEU:O	1:e:389:ILE:HG23	1.87	0.75
1:e:423:PRO:O	1:e:427:LEU:HB2	1.85	0.75
1:A:386:LEU:O	1:A:389:ILE:HG23	1.87	0.75
1:C:241:LEU:HD21	1:C:243:VAL:CG1	2.16	0.75
1:E:242:LEU:HD21	1:E:244:LEU:HD11	1.68	0.75
1:M:488:ARG:HH11	1:M:488:ARG:CG	1.99	0.75
1:O:19:PHE:CZ	1:O:92:ILE:HD11	2.19	0.75
1:Q:106:TYR:O	1:Q:109:GLN:N	2.20	0.75
1:S:229:ARG:O	1:S:233:LYS:HE3	1.87	0.75
1:S:386:LEU:O	1:S:389:ILE:HG23	1.87	0.75
1:Y:369:PHE:CZ	1:Y:410:LEU:HD11	2.21	0.75
1:a:19:PHE:CZ	1:a:92:ILE:HD11	2.19	0.75
1:c:120:PHE:CE1	1:c:124:ASN:CG	2.64	0.75
1:c:229:ARG:O	1:c:233:LYS:HE3	1.87	0.75
1:c:488:ARG:CG	1:c:488:ARG:HH11	1.99	0.75
1:A:410:LEU:CD2	1:A:427:LEU:CA	2.65	0.75
1:C:39:ILE:CG1	1:C:40:LEU:HD23	2.14	0.75
1:C:279:THR:HG21	1:Q:118:GLN:HE21	1.48	0.75
1:G:192:VAL:CG2	1:G:221:ILE:HD12	2.14	0.75
1:I:410:LEU:CD2	1:I:427:LEU:CA	2.65	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:423:PRO:O	1:K:427:LEU:HB2	1.85	0.75
1:M:39:ILE:CG1	1:M:40:LEU:HD23	2.13	0.75
1:M:106:TYR:O	1:M:109:GLN:N	2.20	0.75
1:M:229:ARG:O	1:M:233:LYS:HE3	1.87	0.75
1:M:410:LEU:CD2	1:M:427:LEU:CA	2.65	0.75
1:M:538:LEU:HD11	1:M:572:ALA:HB2	1.69	0.75
1:O:106:TYR:O	1:O:109:GLN:N	2.20	0.75
1:O:120:PHE:CE1	1:O:124:ASN:CG	2.64	0.75
1:O:371:ARG:CB	1:O:389:ILE:CG1	2.56	0.75
1:Q:120:PHE:CE1	1:Q:124:ASN:CG	2.64	0.75
1:Q:369:PHE:CZ	1:Q:410:LEU:HD11	2.21	0.75
1:S:279:THR:C	1:S:280:THR:HG22	2.10	0.75
1:S:410:LEU:HD12	1:S:411:VAL:N	1.99	0.75
1:U:242:LEU:HD21	1:U:244:LEU:HD11	1.68	0.75
1:U:410:LEU:HD12	1:U:411:VAL:N	1.99	0.75
1:Y:106:TYR:O	1:Y:109:GLN:N	2.20	0.75
1:Y:279:THR:HG21	1:a:118:GLN:HE21	1.48	0.75
1:c:142:ARG:HH12	1:e:111:ASP:CG	1.94	0.75
1:c:410:LEU:CD2	1:c:427:LEU:CA	2.65	0.75
1:e:360:LEU:CD1	1:e:405:LEU:CD2	2.41	0.75
1:A:360:LEU:CD1	1:A:405:LEU:CD2	2.41	0.75
1:C:410:LEU:CD1	1:C:423:PRO:HD3	2.15	0.75
1:G:410:LEU:HD12	1:G:411:VAL:N	1.99	0.75
1:K:111:ASP:CG	1:M:142:ARG:HH12	1.94	0.75
1:M:242:LEU:HD21	1:M:244:LEU:HD11	1.68	0.75
1:O:410:LEU:CD2	1:O:427:LEU:CA	2.65	0.75
1:Q:232:LEU:C	1:Q:234:SER:H	1.93	0.75
1:Q:327:ILE:CD1	1:Q:341:TRP:HZ3	1.89	0.75
2:T:34:LEU:HD23	2:T:72:HIS:HE1	1.52	0.75
1:W:241:LEU:HD21	1:W:243:VAL:CG1	2.16	0.75
1:W:279:THR:HG21	1:Y:118:GLN:HE21	1.48	0.75
1:W:410:LEU:CD1	1:W:423:PRO:HD3	2.15	0.75
1:a:106:TYR:O	1:a:109:GLN:N	2.20	0.75
1:a:345:ASN:C	1:a:347:ASP:H	1.92	0.75
1:c:106:TYR:O	1:c:109:GLN:N	2.20	0.75
1:c:538:LEU:HD11	1:c:572:ALA:HB2	1.69	0.75
1:e:538:LEU:HD11	1:e:572:ALA:HB2	1.69	0.75
1:C:106:TYR:O	1:C:109:GLN:N	2.20	0.74
1:C:158:THR:HG23	1:C:159:TRP:HD1	1.51	0.74
1:G:35:MET:HE2	1:G:39:ILE:CD1	2.13	0.74
1:G:279:THR:C	1:G:280:THR:HG22	2.10	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:34:LEU:HD23	2:H:72:HIS:HE1	1.52	0.74
1:M:24:VAL:CG2	1:M:58:THR:HG21	2.06	0.74
1:M:357:LEU:CD1	1:M:430:LYS:HZ3	1.98	0.74
1:O:118:GLN:HE21	1:Q:279:THR:HG21	1.48	0.74
1:O:129:GLN:HB3	1:O:130:PRO:CD	2.15	0.74
1:Q:247:VAL:HG21	1:Q:264:LEU:HB2	1.69	0.74
1:S:15:ILE:HD13	1:S:95:GLU:CA	2.17	0.74
1:S:247:VAL:HG21	1:S:264:LEU:HB2	1.69	0.74
1:S:411:VAL:H	1:S:422:ILE:HG23	1.50	0.74
1:a:86:LYS:CE	1:a:89:MET:HE3	2.08	0.74
1:a:410:LEU:CD2	1:a:427:LEU:CA	2.65	0.74
1:e:242:LEU:HD22	1:e:262:ILE:HG21	1.69	0.74
1:A:174:MET:SD	1:A:241:LEU:HB3	2.25	0.74
1:A:232:LEU:C	1:A:234:SER:H	1.93	0.74
1:E:242:LEU:HD22	1:E:262:ILE:HG21	1.69	0.74
1:E:410:LEU:HD12	1:E:411:VAL:N	1.99	0.74
1:G:15:ILE:HD13	1:G:95:GLU:CA	2.17	0.74
1:G:30:LYS:HB3	2:H:51:ASN:HD22	1.50	0.74
1:G:247:VAL:HG21	1:G:264:LEU:HB2	1.69	0.74
1:G:365:TYR:HE1	1:G:404:LYS:HB3	1.51	0.74
1:G:411:VAL:H	1:G:422:ILE:HG23	1.50	0.74
1:I:30:LYS:HB3	2:J:51:ASN:HD22	1.50	0.74
1:I:174:MET:SD	1:I:241:LEU:HB3	2.25	0.74
1:K:242:LEU:HD22	1:K:262:ILE:HG21	1.69	0.74
1:K:345:ASN:C	1:K:347:ASP:N	2.42	0.74
1:K:410:LEU:CD2	1:K:427:LEU:CA	2.65	0.74
1:K:538:LEU:HD11	1:K:572:ALA:HB2	1.69	0.74
1:O:111:ASP:CG	1:Q:142:ARG:HH12	1.94	0.74
1:O:488:ARG:CG	1:O:488:ARG:HH11	1.99	0.74
1:Q:158:THR:HG23	1:Q:159:TRP:HD1	1.51	0.74
1:S:30:LYS:HB3	2:T:51:ASN:HD22	1.50	0.74
1:S:106:TYR:O	1:S:109:GLN:N	2.20	0.74
1:S:120:PHE:CE1	1:S:124:ASN:CG	2.64	0.74
1:W:106:TYR:O	1:W:109:GLN:N	2.20	0.74
1:W:158:THR:HG23	1:W:159:TRP:HD1	1.51	0.74
1:Y:232:LEU:C	1:Y:234:SER:H	1.93	0.74
1:Y:247:VAL:HG21	1:Y:264:LEU:HB2	1.69	0.74
1:a:120:PHE:CE1	1:a:124:ASN:CG	2.64	0.74
1:a:488:ARG:HH11	1:a:488:ARG:CG	1.99	0.74
1:e:237:TYR:O	1:e:239:ASN:N	2.16	0.74
1:e:327:ILE:CD1	1:e:341:TRP:HZ3	1.89	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:e:345:ASN:C	1:e:347:ASP:N	2.42	0.74
1:e:410:LEU:CD2	1:e:427:LEU:CA	2.65	0.74
1:A:30:LYS:HB3	2:B:51:ASN:HD22	1.50	0.74
1:A:369:PHE:CZ	1:A:410:LEU:HD11	2.21	0.74
1:E:102:MET:CE	1:E:172:CYS:SG	2.75	0.74
1:G:106:TYR:O	1:G:109:GLN:N	2.20	0.74
1:G:174:MET:SD	1:G:241:LEU:HB3	2.25	0.74
1:G:410:LEU:CD2	1:G:427:LEU:CA	2.65	0.74
1:I:15:ILE:HD13	1:I:95:GLU:CA	2.17	0.74
1:I:35:MET:HE2	1:I:39:ILE:CD1	2.13	0.74
1:I:369:PHE:CZ	1:I:410:LEU:HD11	2.21	0.74
2:L:17:HIS:CD2	2:L:109:VAL:HG11	2.23	0.74
1:M:345:ASN:C	1:M:347:ASP:H	1.92	0.74
1:S:174:MET:SD	1:S:241:LEU:HB3	2.25	0.74
1:S:410:LEU:CD1	1:S:423:PRO:HD3	2.15	0.74
1:S:410:LEU:CD2	1:S:427:LEU:CA	2.65	0.74
1:U:242:LEU:HD22	1:U:262:ILE:HG21	1.69	0.74
1:W:29:CYS:HA	1:W:32:VAL:HG23	1.68	0.74
1:Y:142:ARG:HH12	1:a:111:ASP:CG	1.94	0.74
1:Y:158:THR:HG23	1:Y:159:TRP:HD1	1.51	0.74
1:a:129:GLN:HB3	1:a:130:PRO:CD	2.15	0.74
1:c:242:LEU:HD21	1:c:244:LEU:HD11	1.68	0.74
1:e:305:LEU:HD13	1:e:305:LEU:O	1.87	0.74
1:e:357:LEU:HG	1:e:430:LYS:NZ	1.98	0.74
2:f:17:HIS:CD2	2:f:109:VAL:HG11	2.23	0.74
1:A:15:ILE:HD13	1:A:95:GLU:CA	2.17	0.74
1:A:35:MET:HE2	1:A:39:ILE:CD1	2.13	0.74
1:E:229:ARG:O	1:E:233:LYS:HE3	1.87	0.74
2:F:34:LEU:HD23	2:F:72:HIS:HE1	1.52	0.74
1:G:120:PHE:CE1	1:G:124:ASN:CG	2.64	0.74
1:K:129:GLN:HB3	1:K:130:PRO:CD	2.15	0.74
1:K:305:LEU:HD13	1:K:305:LEU:O	1.87	0.74
1:K:327:ILE:CD1	1:K:341:TRP:HZ3	1.89	0.74
1:K:488:ARG:CG	1:K:488:ARG:HH11	1.99	0.74
1:M:183:LEU:HD22	1:M:186:CYS:HG	0.93	0.74
1:O:410:LEU:CD1	1:O:423:PRO:HD3	2.15	0.74
1:O:410:LEU:HD12	1:O:411:VAL:N	1.99	0.74
2:P:17:HIS:CD2	2:P:109:VAL:HG11	2.23	0.74
1:U:30:LYS:HB3	2:V:51:ASN:HD22	1.50	0.74
2:V:34:LEU:HD23	2:V:72:HIS:HE1	1.52	0.74
1:a:102:MET:CE	1:a:172:CYS:SG	2.75	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:a:242:LEU:HD22	1:a:262:ILE:HG21	1.69	0.74
1:a:410:LEU:HD12	1:a:411:VAL:N	1.99	0.74
2:b:17:HIS:CD2	2:b:109:VAL:HG11	2.23	0.74
1:e:29:CYS:HA	1:e:32:VAL:HG23	1.68	0.74
1:e:247:VAL:HG21	1:e:264:LEU:HB2	1.69	0.74
1:A:305:LEU:HD13	1:A:305:LEU:O	1.87	0.74
1:C:29:CYS:HA	1:C:32:VAL:HG23	1.68	0.74
1:C:142:ARG:HH12	1:Q:111:ASP:CG	1.94	0.74
1:E:30:LYS:HB3	2:F:51:ASN:HD22	1.50	0.74
1:E:111:ASP:CG	1:G:142:ARG:HH12	1.94	0.74
1:E:158:THR:HG23	1:E:159:TRP:HD1	1.51	0.74
1:E:538:LEU:HD11	1:E:572:ALA:HB2	1.69	0.74
1:I:188:SER:O	1:I:191:THR:CG2	2.28	0.74
1:K:247:VAL:HG21	1:K:264:LEU:HB2	1.69	0.74
1:K:357:LEU:HG	1:K:430:LYS:NZ	1.98	0.74
1:M:186:CYS:O	1:M:191:THR:CG2	2.33	0.74
1:M:247:VAL:HG21	1:M:264:LEU:HB2	1.69	0.74
1:O:242:LEU:HD22	1:O:262:ILE:HG21	1.69	0.74
1:O:538:LEU:HD11	1:O:572:ALA:HB2	1.69	0.74
1:Q:242:LEU:HD22	1:Q:262:ILE:HG21	1.69	0.74
1:S:35:MET:HE2	1:S:39:ILE:CD1	2.13	0.74
1:S:242:LEU:HD21	1:S:244:LEU:HD11	1.68	0.74
1:S:365:TYR:HE1	1:S:404:LYS:HB3	1.51	0.74
1:U:229:ARG:O	1:U:233:LYS:HE3	1.87	0.74
1:U:538:LEU:HD11	1:U:572:ALA:HB2	1.69	0.74
1:W:242:LEU:HD22	1:W:262:ILE:HG21	1.69	0.74
1:a:183:LEU:HD22	1:a:186:CYS:HG	0.92	0.74
1:a:183:LEU:CD2	1:a:186:CYS:HG	1.86	0.74
1:a:538:LEU:HD11	1:a:572:ALA:HB2	1.69	0.74
1:c:183:LEU:HD22	1:c:186:CYS:HG	0.93	0.74
1:c:305:LEU:HD13	1:c:305:LEU:O	1.87	0.74
1:e:129:GLN:HB3	1:e:130:PRO:CD	2.15	0.74
1:e:382:PRO:HB3	1:e:463:LEU:CD2	2.14	0.74
1:G:410:LEU:CD1	1:G:423:PRO:HD3	2.15	0.74
1:I:305:LEU:HD13	1:I:305:LEU:O	1.87	0.74
1:M:111:ASP:CG	1:O:142:ARG:HH12	1.94	0.74
1:M:242:LEU:HD22	1:M:262:ILE:HG21	1.69	0.74
2:N:44:LEU:HD12	2:N:44:LEU:N	2.03	0.74
1:O:186:CYS:O	1:O:191:THR:CG2	2.33	0.74
1:Q:35:MET:HE2	1:Q:39:ILE:CD1	2.13	0.74
1:Q:410:LEU:CD2	1:Q:427:LEU:CA	2.65	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:R:44:LEU:HD12	2:R:44:LEU:N	2.03	0.74
1:S:142:ARG:HH12	1:U:111:ASP:CG	1.94	0.74
1:U:158:THR:HG23	1:U:159:TRP:HD1	1.51	0.74
1:U:410:LEU:HD12	1:U:423:PRO:HD3	1.70	0.74
1:W:142:ARG:HH12	1:Y:111:ASP:CG	1.94	0.74
1:Y:242:LEU:HD22	1:Y:262:ILE:HG21	1.69	0.74
1:Y:410:LEU:CD2	1:Y:427:LEU:CA	2.65	0.74
2:Z:44:LEU:HD12	2:Z:44:LEU:N	2.03	0.74
1:a:186:CYS:O	1:a:191:THR:CG2	2.33	0.74
1:a:410:LEU:CD1	1:a:423:PRO:HD3	2.15	0.74
1:c:247:VAL:HG21	1:c:264:LEU:HB2	1.69	0.74
1:c:357:LEU:HG	1:c:430:LYS:NZ	1.97	0.74
2:d:44:LEU:HD12	2:d:44:LEU:N	2.03	0.74
1:e:15:ILE:HD13	1:e:95:GLU:CA	2.17	0.74
1:e:488:ARG:HH11	1:e:488:ARG:CG	1.99	0.74
1:C:242:LEU:HD22	1:C:262:ILE:HG21	1.69	0.74
1:E:372:LEU:O	1:E:372:LEU:HD23	1.88	0.74
1:E:410:LEU:HD12	1:E:423:PRO:HD3	1.70	0.74
2:F:44:LEU:HD12	2:F:44:LEU:N	2.03	0.74
1:G:242:LEU:HD21	1:G:244:LEU:HD11	1.68	0.74
1:K:15:ILE:HD13	1:K:95:GLU:CA	2.17	0.74
1:K:29:CYS:HA	1:K:32:VAL:HG23	1.68	0.74
1:M:305:LEU:HD13	1:M:305:LEU:O	1.87	0.74
1:Q:15:ILE:HD13	1:Q:95:GLU:CA	2.17	0.74
1:S:411:VAL:N	1:S:423:PRO:HD3	2.03	0.74
1:U:372:LEU:O	1:U:372:LEU:HD23	1.88	0.74
2:V:44:LEU:HD12	2:V:44:LEU:N	2.03	0.74
1:Y:15:ILE:HD13	1:Y:95:GLU:CA	2.17	0.74
1:a:195:MET:HE1	1:a:198:LYS:HE2	1.70	0.74
1:a:305:LEU:HD13	1:a:305:LEU:O	1.87	0.74
1:A:357:LEU:HG	1:A:430:LYS:NZ	1.97	0.74
1:A:488:ARG:HH11	1:A:488:ARG:CG	1.99	0.74
1:C:111:ASP:CG	1:E:142:ARG:HH12	1.94	0.74
1:G:411:VAL:N	1:G:423:PRO:HD3	2.03	0.74
1:I:232:LEU:C	1:I:234:SER:H	1.93	0.74
1:I:488:ARG:HH11	1:I:488:ARG:CG	1.99	0.74
1:K:35:MET:HE2	1:K:39:ILE:CD1	2.13	0.74
1:K:382:PRO:HB3	1:K:463:LEU:CD2	2.14	0.74
1:O:15:ILE:HD13	1:O:95:GLU:CA	2.17	0.74
1:O:195:MET:HE1	1:O:198:LYS:HE2	1.70	0.74
1:S:242:LEU:HD22	1:S:262:ILE:HG21	1.69	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:U:365:TYR:HE1	1:U:404:LYS:HB3	1.51	0.74
1:W:82:ARG:HH11	1:W:82:ARG:HG2	1.53	0.74
1:W:305:LEU:HD13	1:W:305:LEU:O	1.87	0.74
1:W:422:ILE:HG22	1:W:423:PRO:CD	1.78	0.74
1:a:15:ILE:HD13	1:a:95:GLU:CA	2.17	0.74
1:a:142:ARG:HH12	1:c:111:ASP:CG	1.94	0.74
1:a:382:PRO:HB3	1:a:463:LEU:CD2	2.14	0.74
1:c:186:CYS:O	1:c:191:THR:CG2	2.33	0.74
1:c:242:LEU:HD22	1:c:262:ILE:HG21	1.69	0.74
1:A:24:VAL:HG22	1:A:58:THR:CG2	2.07	0.74
1:A:82:ARG:HH11	1:A:82:ARG:HG2	1.53	0.74
1:A:188:SER:O	1:A:191:THR:CG2	2.28	0.74
1:A:410:LEU:HD12	1:A:411:VAL:N	1.99	0.74
1:C:305:LEU:HD13	1:C:305:LEU:O	1.87	0.74
1:C:422:ILE:HG22	1:C:423:PRO:CD	1.78	0.74
1:G:242:LEU:HD22	1:G:262:ILE:HG21	1.69	0.74
1:I:82:ARG:HH11	1:I:82:ARG:HG2	1.53	0.74
1:I:242:LEU:HD22	1:I:262:ILE:HG21	1.69	0.74
1:I:410:LEU:HD12	1:I:411:VAL:N	1.99	0.74
1:K:365:TYR:HE1	1:K:404:LYS:HB3	1.51	0.74
1:M:15:ILE:HD13	1:M:95:GLU:CA	2.17	0.74
1:O:305:LEU:HD13	1:O:305:LEU:O	1.87	0.74
2:P:105:LEU:HD21	2:V:105:LEU:HD11	1.70	0.74
1:Q:39:ILE:O	1:Q:40:LEU:CD2	2.36	0.74
1:Q:345:ASN:C	1:Q:347:ASP:N	2.42	0.74
1:U:142:ARG:HH12	1:W:111:ASP:CG	1.94	0.74
1:Y:35:MET:HE2	1:Y:39:ILE:CD1	2.13	0.74
1:a:229:ARG:O	1:a:233:LYS:HE3	1.87	0.74
1:a:327:ILE:CD1	1:a:341:TRP:HZ3	1.89	0.74
1:c:15:ILE:HD13	1:c:95:GLU:CA	2.17	0.74
1:A:242:LEU:HD22	1:A:262:ILE:HG21	1.69	0.74
1:C:15:ILE:HD13	1:C:95:GLU:CA	2.17	0.74
1:C:82:ARG:HG2	1:C:82:ARG:HH11	1.53	0.74
2:D:105:LEU:HD21	2:Z:105:LEU:HD11	1.70	0.74
1:E:15:ILE:HD13	1:E:95:GLU:CA	2.17	0.74
1:E:365:TYR:HE1	1:E:404:LYS:HB3	1.51	0.74
1:E:410:LEU:CD2	1:E:427:LEU:CA	2.65	0.74
2:F:105:LEU:HD11	2:b:105:LEU:HD21	1.70	0.74
1:G:172:CYS:HG	1:G:176:PHE:HZ	0.82	0.74
2:H:17:HIS:CD2	2:H:109:VAL:HG11	2.23	0.74
2:H:105:LEU:HD21	2:d:105:LEU:HD11	1.70	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:357:LEU:HG	1:I:430:LYS:NZ	1.97	0.74
1:K:372:LEU:O	1:K:372:LEU:HD23	1.88	0.74
1:K:411:VAL:N	1:K:423:PRO:HD3	2.03	0.74
2:N:105:LEU:HD11	2:T:105:LEU:HD21	1.70	0.74
1:O:411:VAL:N	1:O:423:PRO:HD3	2.03	0.74
1:Q:410:LEU:CD1	1:Q:423:PRO:HD3	2.15	0.74
2:R:105:LEU:HD11	2:X:105:LEU:HD21	1.70	0.74
1:U:410:LEU:CD2	1:U:427:LEU:CA	2.65	0.74
2:V:17:HIS:CD2	2:V:109:VAL:HG11	2.23	0.74
1:W:15:ILE:HD13	1:W:95:GLU:CA	2.17	0.74
1:W:369:PHE:CZ	1:W:410:LEU:HD11	2.22	0.74
1:W:386:LEU:O	1:W:389:ILE:HG23	1.87	0.74
1:Y:39:ILE:O	1:Y:40:LEU:CD2	2.36	0.74
1:Y:345:ASN:C	1:Y:347:ASP:N	2.42	0.74
1:a:411:VAL:N	1:a:423:PRO:HD3	2.03	0.74
1:e:35:MET:HE2	1:e:39:ILE:CD1	2.13	0.74
1:e:372:LEU:O	1:e:372:LEU:HD23	1.88	0.74
1:e:411:VAL:N	1:e:423:PRO:HD3	2.03	0.74
1:A:195:MET:CE	1:A:198:LYS:CE	2.66	0.73
2:B:17:HIS:CD2	2:B:109:VAL:HG11	2.23	0.73
2:D:17:HIS:CD2	2:D:109:VAL:HG11	2.23	0.73
1:E:106:TYR:O	1:E:109:GLN:N	2.20	0.73
1:E:305:LEU:HD13	1:E:305:LEU:O	1.87	0.73
1:E:369:PHE:CZ	1:E:410:LEU:HD11	2.21	0.73
2:F:17:HIS:CD2	2:F:109:VAL:HG11	2.23	0.73
1:K:232:LEU:C	1:K:234:SER:H	1.93	0.73
1:O:229:ARG:O	1:O:233:LYS:HE3	1.87	0.73
1:O:382:PRO:HB3	1:O:463:LEU:CD2	2.14	0.73
1:O:410:LEU:CD2	1:O:426:TYR:HD1	2.00	0.73
1:O:491:PHE:HA	1:O:576:GLU:HG2	1.70	0.73
1:Q:95:GLU:O	1:Q:98:GLN:N	2.21	0.73
2:T:17:HIS:CD2	2:T:109:VAL:HG11	2.23	0.73
1:U:15:ILE:HD13	1:U:95:GLU:CA	2.17	0.73
1:U:491:PHE:HA	1:U:576:GLU:HG2	1.70	0.73
1:W:242:LEU:HD21	1:W:244:LEU:HD11	1.68	0.73
1:W:410:LEU:CD2	1:W:427:LEU:CA	2.65	0.73
1:Y:410:LEU:CD1	1:Y:423:PRO:HD3	2.15	0.73
1:a:39:ILE:O	1:a:40:LEU:CD2	2.36	0.73
1:a:410:LEU:CD2	1:a:426:TYR:HD1	2.00	0.73
1:c:411:VAL:N	1:c:423:PRO:HD3	2.03	0.73
1:A:345:ASN:C	1:A:347:ASP:N	2.42	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:372:LEU:O	1:A:372:LEU:HD23	1.88	0.73
2:B:44:LEU:HD12	2:B:44:LEU:N	2.03	0.73
1:C:242:LEU:HD21	1:C:244:LEU:HD11	1.68	0.73
1:C:369:PHE:CZ	1:C:410:LEU:HD11	2.22	0.73
1:C:386:LEU:O	1:C:389:ILE:HG23	1.87	0.73
1:C:410:LEU:CD2	1:C:427:LEU:CA	2.65	0.73
1:E:491:PHE:HA	1:E:576:GLU:HG2	1.70	0.73
1:G:95:GLU:O	1:G:98:GLN:N	2.21	0.73
1:G:369:PHE:CZ	1:G:410:LEU:HD11	2.22	0.73
1:G:410:LEU:CB	1:G:426:TYR:CD1	2.61	0.73
1:I:195:MET:CE	1:I:198:LYS:CE	2.66	0.73
2:J:17:HIS:CD2	2:J:109:VAL:HG11	2.23	0.73
2:J:44:LEU:HD12	2:J:44:LEU:N	2.03	0.73
1:K:491:PHE:HA	1:K:576:GLU:HG2	1.70	0.73
1:M:357:LEU:HG	1:M:430:LYS:NZ	1.97	0.73
1:M:411:VAL:N	1:M:423:PRO:HD3	2.03	0.73
1:O:39:ILE:O	1:O:40:LEU:CD2	2.36	0.73
1:O:327:ILE:CD1	1:O:341:TRP:HZ3	1.89	0.73
1:Q:29:CYS:HA	1:Q:32:VAL:HG23	1.68	0.73
1:Q:195:MET:HE1	1:Q:198:LYS:HE2	1.70	0.73
1:Q:242:LEU:HD21	1:Q:244:LEU:HD11	1.68	0.73
2:R:17:HIS:CD2	2:R:109:VAL:HG11	2.23	0.73
1:S:95:GLU:O	1:S:98:GLN:N	2.21	0.73
1:S:195:MET:CE	1:S:198:LYS:CE	2.66	0.73
1:U:106:TYR:O	1:U:109:GLN:N	2.20	0.73
1:U:369:PHE:CZ	1:U:410:LEU:HD11	2.21	0.73
1:W:247:VAL:HG21	1:W:264:LEU:HB2	1.69	0.73
1:W:411:VAL:N	1:W:423:PRO:HD3	2.03	0.73
2:X:17:HIS:CD2	2:X:109:VAL:HG11	2.23	0.73
1:Y:95:GLU:O	1:Y:98:GLN:N	2.21	0.73
1:Y:305:LEU:HD13	1:Y:305:LEU:O	1.87	0.73
1:Y:488:ARG:HH11	1:Y:488:ARG:CG	1.99	0.73
1:a:491:PHE:HA	1:a:576:GLU:HG2	1.70	0.73
1:A:411:VAL:N	1:A:423:PRO:HD3	2.03	0.73
1:E:388:LEU:HD23	1:E:388:LEU:N	2.04	0.73
1:G:195:MET:CE	1:G:198:LYS:CE	2.66	0.73
1:I:24:VAL:HG22	1:I:58:THR:CG2	2.07	0.73
1:I:345:ASN:C	1:I:347:ASP:N	2.42	0.73
1:I:372:LEU:O	1:I:372:LEU:HD23	1.88	0.73
1:K:193:LEU:HD12	1:K:217:ILE:CG1	2.13	0.73
1:K:195:MET:HE1	1:K:198:LYS:HE2	1.70	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:388:LEU:HD23	1:K:388:LEU:N	2.04	0.73
1:M:410:LEU:CD2	1:M:426:TYR:HD1	2.00	0.73
1:O:528:ILE:O	1:O:536:GLU:OE2	2.06	0.73
1:Q:365:TYR:HE1	1:Q:404:LYS:HB3	1.51	0.73
1:Q:411:VAL:N	1:Q:423:PRO:HD3	2.03	0.73
1:S:369:PHE:CZ	1:S:410:LEU:HD11	2.22	0.73
1:U:195:MET:CE	1:U:198:LYS:CE	2.66	0.73
1:U:305:LEU:HD13	1:U:305:LEU:O	1.87	0.73
1:U:388:LEU:N	1:U:388:LEU:HD23	2.04	0.73
1:W:129:GLN:HB3	1:W:130:PRO:CD	2.15	0.73
2:X:34:LEU:HD23	2:X:72:HIS:HE1	1.52	0.73
1:Y:365:TYR:HE1	1:Y:404:LYS:HB3	1.51	0.73
2:Z:34:LEU:HD23	2:Z:72:HIS:HE1	1.52	0.73
1:a:95:GLU:O	1:a:98:GLN:N	2.21	0.73
1:a:528:ILE:O	1:a:536:GLU:OE2	2.06	0.73
1:c:410:LEU:CD2	1:c:426:TYR:HD1	2.00	0.73
1:e:365:TYR:HE1	1:e:404:LYS:HB3	1.51	0.73
1:e:388:LEU:N	1:e:388:LEU:HD23	2.04	0.73
1:A:410:LEU:CD2	1:A:426:TYR:HD1	2.00	0.73
2:B:34:LEU:HD23	2:B:72:HIS:HE1	1.52	0.73
2:B:105:LEU:HD11	2:L:105:LEU:HD21	1.70	0.73
1:C:95:GLU:O	1:C:98:GLN:N	2.21	0.73
1:C:247:VAL:HG21	1:C:264:LEU:HB2	1.69	0.73
1:C:411:VAL:N	1:C:423:PRO:HD3	2.03	0.73
1:E:35:MET:HE2	1:E:39:ILE:CD1	2.13	0.73
1:E:195:MET:CE	1:E:198:LYS:CE	2.66	0.73
1:E:247:VAL:HG21	1:E:264:LEU:HB2	1.69	0.73
1:I:410:LEU:HD12	1:I:423:PRO:HD3	1.70	0.73
1:I:411:VAL:N	1:I:423:PRO:HD3	2.03	0.73
1:M:118:GLN:HE21	1:O:279:THR:HG21	1.48	0.73
1:O:95:GLU:O	1:O:98:GLN:N	2.21	0.73
1:Q:305:LEU:HD13	1:Q:305:LEU:O	1.87	0.73
1:Q:488:ARG:HH11	1:Q:488:ARG:CG	1.99	0.73
1:Q:538:LEU:HD11	1:Q:572:ALA:HB2	1.69	0.73
1:S:410:LEU:CB	1:S:426:TYR:CD1	2.61	0.73
1:W:410:LEU:CD2	1:W:426:TYR:HD1	2.00	0.73
1:Y:195:MET:HE1	1:Y:198:LYS:HE2	1.70	0.73
1:Y:242:LEU:HD21	1:Y:244:LEU:HD11	1.68	0.73
1:Y:538:LEU:HD11	1:Y:572:ALA:HB2	1.69	0.73
2:Z:17:HIS:CD2	2:Z:109:VAL:HG11	2.23	0.73
1:a:247:VAL:HG21	1:a:264:LEU:HB2	1.69	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:c:327:ILE:CD1	1:c:341:TRP:HZ3	1.89	0.73
1:e:195:MET:HE1	1:e:198:LYS:HE2	1.70	0.73
1:e:232:LEU:C	1:e:234:SER:H	1.93	0.73
1:e:491:PHE:HA	1:e:576:GLU:HG2	1.70	0.73
1:A:24:VAL:CG2	1:A:58:THR:HG21	2.06	0.73
1:A:39:ILE:O	1:A:40:LEU:CD2	2.36	0.73
1:A:95:GLU:O	1:A:98:GLN:N	2.21	0.73
1:C:129:GLN:HB3	1:C:130:PRO:CD	2.15	0.73
1:C:410:LEU:CD2	1:C:426:TYR:HD1	2.00	0.73
2:D:34:LEU:HD23	2:D:72:HIS:HE1	1.52	0.73
2:D:44:LEU:HD12	2:D:44:LEU:N	2.03	0.73
1:G:372:LEU:O	1:G:372:LEU:HD23	1.88	0.73
1:G:491:PHE:HA	1:G:576:GLU:HG2	1.70	0.73
1:I:39:ILE:O	1:I:40:LEU:CD2	2.36	0.73
1:I:95:GLU:O	1:I:98:GLN:N	2.21	0.73
2:J:105:LEU:HD11	2:f:105:LEU:HD21	1.70	0.73
1:M:102:MET:CE	1:M:172:CYS:SG	2.75	0.73
1:M:528:ILE:O	1:M:536:GLU:OE2	2.06	0.73
1:O:82:ARG:HH11	1:O:82:ARG:HG2	1.53	0.73
1:O:372:LEU:HD23	1:O:372:LEU:O	1.88	0.73
2:R:34:LEU:HD23	2:R:72:HIS:HE1	1.52	0.73
1:W:95:GLU:O	1:W:98:GLN:N	2.21	0.73
1:Y:29:CYS:HA	1:Y:32:VAL:HG23	1.68	0.73
1:Y:411:VAL:N	1:Y:423:PRO:HD3	2.03	0.73
1:a:372:LEU:O	1:a:372:LEU:HD23	1.88	0.73
1:A:491:PHE:HA	1:A:576:GLU:HG2	1.70	0.73
1:C:15:ILE:CG2	1:C:95:GLU:HB2	2.19	0.73
1:C:491:PHE:HA	1:C:576:GLU:HG2	1.70	0.73
1:C:538:LEU:HD11	1:C:572:ALA:HB2	1.69	0.73
1:E:39:ILE:O	1:E:40:LEU:CD2	2.36	0.73
1:E:95:GLU:O	1:E:98:GLN:N	2.21	0.73
1:G:102:MET:CE	1:G:172:CYS:SG	2.75	0.73
1:G:388:LEU:HD23	1:G:388:LEU:N	2.04	0.73
1:I:410:LEU:CD2	1:I:426:TYR:HD1	2.00	0.73
1:K:82:ARG:HH11	1:K:82:ARG:HG2	1.53	0.73
2:N:34:LEU:HD23	2:N:72:HIS:HE1	1.52	0.73
1:O:247:VAL:HG21	1:O:264:LEU:HB2	1.69	0.73
1:O:348:LYS:O	1:O:352:ILE:HD12	1.89	0.73
2:P:34:LEU:HD23	2:P:72:HIS:HE1	1.52	0.73
1:Q:410:LEU:CD2	1:Q:426:TYR:HD1	2.00	0.73
1:Q:528:ILE:O	1:Q:536:GLU:OE2	2.06	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:U:35:MET:HE2	1:U:39:ILE:CD1	2.13	0.73
1:U:39:ILE:O	1:U:40:LEU:CD2	2.36	0.73
1:U:95:GLU:O	1:U:98:GLN:N	2.21	0.73
1:U:247:VAL:HG21	1:U:264:LEU:HB2	1.69	0.73
1:W:87:PHE:HD2	2:X:83:GLY:CA	1.97	0.73
1:W:382:PRO:HB3	1:W:463:LEU:CD2	2.14	0.73
1:Y:372:LEU:O	1:Y:372:LEU:HD23	1.88	0.73
1:Y:410:LEU:CD2	1:Y:426:TYR:HD1	2.00	0.73
1:a:348:LYS:O	1:a:352:ILE:HD12	1.89	0.73
1:c:491:PHE:HA	1:c:576:GLU:HG2	1.70	0.73
1:c:528:ILE:O	1:c:536:GLU:OE2	2.06	0.73
1:A:39:ILE:CG1	1:A:40:LEU:HD23	2.13	0.73
1:G:39:ILE:O	1:G:40:LEU:CD2	2.36	0.73
1:I:247:VAL:HG21	1:I:264:LEU:HB2	1.69	0.73
2:J:34:LEU:HD23	2:J:72:HIS:HE1	1.52	0.73
1:M:327:ILE:CD1	1:M:341:TRP:HZ3	1.89	0.73
1:O:15:ILE:CG2	1:O:95:GLU:HB2	2.19	0.73
1:Q:372:LEU:O	1:Q:372:LEU:HD23	1.88	0.73
1:Q:404:LYS:HE2	1:Q:404:LYS:HA	1.70	0.73
1:S:372:LEU:HD23	1:S:372:LEU:O	1.88	0.73
1:S:388:LEU:HD23	1:S:388:LEU:N	2.04	0.73
1:S:410:LEU:HD12	1:S:423:PRO:HD3	1.70	0.73
1:S:491:PHE:HA	1:S:576:GLU:HG2	1.70	0.73
1:W:15:ILE:CG2	1:W:95:GLU:HB2	2.19	0.73
1:W:491:PHE:HA	1:W:576:GLU:HG2	1.70	0.73
1:W:538:LEU:HD11	1:W:572:ALA:HB2	1.69	0.73
2:X:44:LEU:HD12	2:X:44:LEU:N	2.03	0.73
1:Y:528:ILE:O	1:Y:536:GLU:OE2	2.06	0.73
1:a:82:ARG:HH11	1:a:82:ARG:HG2	1.53	0.73
1:a:279:THR:HG21	1:c:118:GLN:HE21	1.48	0.73
2:d:17:HIS:CD2	2:d:109:VAL:HG11	2.23	0.73
1:e:87:PHE:HD2	2:f:83:GLY:CA	1.97	0.73
1:e:193:LEU:HD12	1:e:217:ILE:CG1	2.13	0.73
1:A:87:PHE:HD2	2:B:83:GLY:CA	1.97	0.73
1:C:39:ILE:O	1:C:40:LEU:CD2	2.36	0.73
1:C:87:PHE:HD2	2:D:83:GLY:CA	1.97	0.73
1:C:102:MET:CE	1:C:172:CYS:SG	2.75	0.73
1:C:188:SER:O	1:C:191:THR:CG2	2.28	0.73
1:E:118:GLN:HE21	1:G:279:THR:HG21	1.48	0.73
1:E:404:LYS:HE2	1:E:404:LYS:HA	1.70	0.73
2:H:37:GLU:O	2:H:41:GLN:N	2.22	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:491:PHE:HA	1:I:576:GLU:HG2	1.70	0.73
1:M:491:PHE:HA	1:M:576:GLU:HG2	1.70	0.73
1:Q:86:LYS:HD2	1:Q:89:MET:CE	2.19	0.73
1:Q:229:ARG:O	1:Q:233:LYS:HE3	1.87	0.73
1:S:39:ILE:O	1:S:40:LEU:CD2	2.36	0.73
2:T:37:GLU:O	2:T:41:GLN:N	2.22	0.73
1:U:404:LYS:HE2	1:U:404:LYS:HA	1.70	0.73
1:Y:404:LYS:HE2	1:Y:404:LYS:HA	1.70	0.73
1:Y:491:PHE:HA	1:Y:576:GLU:HG2	1.70	0.73
1:a:86:LYS:HD2	1:a:89:MET:CE	2.19	0.73
2:b:34:LEU:HD23	2:b:72:HIS:HE1	1.52	0.73
1:c:95:GLU:O	1:c:98:GLN:N	2.21	0.73
1:c:279:THR:C	1:c:280:THR:HG22	2.10	0.73
1:e:82:ARG:HH11	1:e:82:ARG:HG2	1.53	0.73
1:C:229:ARG:O	1:C:233:LYS:HE3	1.87	0.73
1:C:382:PRO:HB3	1:C:463:LEU:CD2	2.14	0.73
1:E:82:ARG:HH11	1:E:82:ARG:HG2	1.53	0.73
1:E:241:LEU:CD2	1:E:243:VAL:HG13	2.19	0.73
1:G:357:LEU:HG	1:G:430:LYS:HZ3	1.54	0.73
1:G:410:LEU:HD12	1:G:423:PRO:HD3	1.70	0.73
1:M:95:GLU:O	1:M:98:GLN:N	2.21	0.73
2:N:17:HIS:CD2	2:N:109:VAL:HG11	2.23	0.73
1:O:86:LYS:HD2	1:O:89:MET:CE	2.19	0.73
1:O:241:LEU:HD11	1:O:263:LEU:CD2	2.16	0.73
1:Q:348:LYS:O	1:Q:352:ILE:HD12	1.89	0.73
1:Q:491:PHE:HA	1:Q:576:GLU:HG2	1.70	0.73
1:S:82:ARG:HH11	1:S:82:ARG:HG2	1.53	0.73
1:U:241:LEU:CD2	1:U:243:VAL:HG13	2.19	0.73
1:Y:86:LYS:HD2	1:Y:89:MET:CE	2.19	0.73
1:Y:348:LYS:O	1:Y:352:ILE:HD12	1.89	0.73
1:a:15:ILE:CG2	1:a:95:GLU:HB2	2.19	0.73
1:a:241:LEU:HD11	1:a:263:LEU:CD2	2.16	0.73
1:c:82:ARG:HH11	1:c:82:ARG:HG2	1.53	0.73
1:c:102:MET:CE	1:c:172:CYS:SG	2.75	0.73
1:c:360:LEU:HD12	1:c:405:LEU:HD22	1.71	0.73
2:d:34:LEU:HD23	2:d:72:HIS:HE1	1.52	0.73
1:e:404:LYS:HA	1:e:404:LYS:HE2	1.70	0.73
1:e:410:LEU:CD2	1:e:426:TYR:HD1	2.00	0.73
1:A:247:VAL:HG21	1:A:264:LEU:HB2	1.69	0.73
1:G:348:LYS:O	1:G:352:ILE:HD12	1.89	0.73
2:H:44:LEU:HD12	2:H:44:LEU:N	2.03	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:105:LEU:HD11	2:d:105:LEU:HD21	1.70	0.73
1:I:24:VAL:CG2	1:I:58:THR:HG21	2.06	0.73
1:I:39:ILE:CG1	1:I:40:LEU:HD23	2.13	0.73
1:K:87:PHE:HD2	2:L:83:GLY:CA	1.97	0.73
1:K:404:LYS:HE2	1:K:404:LYS:HA	1.70	0.73
1:K:410:LEU:CD2	1:K:426:TYR:HD1	2.00	0.73
1:K:528:ILE:O	1:K:536:GLU:OE2	2.06	0.73
1:M:39:ILE:O	1:M:40:LEU:CD2	2.36	0.73
1:M:279:THR:C	1:M:280:THR:HG22	2.10	0.73
1:M:360:LEU:HD12	1:M:405:LEU:HD22	1.71	0.73
1:M:388:LEU:N	1:M:388:LEU:HD23	2.04	0.73
1:O:183:LEU:CD2	1:O:186:CYS:HG	1.88	0.73
1:Q:388:LEU:N	1:Q:388:LEU:HD23	2.04	0.73
1:S:102:MET:CE	1:S:172:CYS:SG	2.75	0.73
1:W:39:ILE:O	1:W:40:LEU:CD2	2.36	0.73
1:W:365:TYR:HE1	1:W:404:LYS:HB3	1.51	0.73
1:Y:229:ARG:O	1:Y:233:LYS:HE3	1.87	0.73
1:Y:388:LEU:N	1:Y:388:LEU:HD23	2.04	0.73
1:e:528:ILE:O	1:e:536:GLU:OE2	2.06	0.73
1:A:404:LYS:HE2	1:A:404:LYS:HA	1.70	0.72
1:A:405:LEU:C	1:A:411:VAL:HG11	2.14	0.72
2:B:37:GLU:O	2:B:41:GLN:N	2.22	0.72
1:G:405:LEU:C	1:G:411:VAL:HG11	2.14	0.72
1:G:528:ILE:O	1:G:536:GLU:OE2	2.06	0.72
1:I:15:ILE:CG2	1:I:95:GLU:HB2	2.19	0.72
1:I:405:LEU:C	1:I:411:VAL:HG11	2.14	0.72
1:K:95:GLU:O	1:K:98:GLN:N	2.21	0.72
1:M:372:LEU:O	1:M:372:LEU:HD23	1.88	0.72
1:O:188:SER:O	1:O:191:THR:CG2	2.28	0.72
2:P:44:LEU:HD12	2:P:44:LEU:N	2.03	0.72
1:Q:15:ILE:CD1	1:Q:95:GLU:HB3	2.18	0.72
2:R:37:GLU:O	2:R:41:GLN:N	2.22	0.72
1:S:348:LYS:O	1:S:352:ILE:HD12	1.89	0.72
1:S:528:ILE:O	1:S:536:GLU:OE2	2.06	0.72
1:U:82:ARG:HH11	1:U:82:ARG:HG2	1.53	0.72
1:W:102:MET:CE	1:W:172:CYS:SG	2.75	0.72
1:W:229:ARG:O	1:W:233:LYS:HE3	1.87	0.72
1:Y:15:ILE:CD1	1:Y:95:GLU:HB3	2.18	0.72
2:Z:37:GLU:O	2:Z:41:GLN:N	2.22	0.72
1:c:39:ILE:O	1:c:40:LEU:CD2	2.36	0.72
1:c:86:LYS:HD2	1:c:89:MET:CE	2.19	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:c:372:LEU:O	1:c:372:LEU:HD23	1.88	0.72
1:c:388:LEU:HD23	1:c:388:LEU:N	2.04	0.72
1:e:410:LEU:HD12	1:e:423:PRO:HD3	1.70	0.72
1:A:15:ILE:CG2	1:A:95:GLU:HB2	2.19	0.72
1:A:388:LEU:HD23	1:A:388:LEU:N	2.04	0.72
1:C:365:TYR:HE1	1:C:404:LYS:HB3	1.51	0.72
2:D:105:LEU:HD11	2:Z:105:LEU:HD21	1.70	0.72
1:I:87:PHE:HD2	2:J:83:GLY:CA	1.97	0.72
1:I:348:LYS:O	1:I:352:ILE:HD12	1.89	0.72
1:I:404:LYS:HE2	1:I:404:LYS:HA	1.70	0.72
2:J:37:GLU:O	2:J:41:GLN:N	2.22	0.72
1:K:183:LEU:HD22	1:K:186:CYS:HG	0.92	0.72
1:K:241:LEU:CD2	1:K:243:VAL:HG13	2.19	0.72
1:K:241:LEU:HD11	1:K:263:LEU:CD2	2.16	0.72
1:K:405:LEU:C	1:K:411:VAL:HG11	2.14	0.72
1:K:410:LEU:HD12	1:K:423:PRO:HD3	1.70	0.72
1:M:82:ARG:HH11	1:M:82:ARG:HG2	1.53	0.72
1:M:86:LYS:HD2	1:M:89:MET:CE	2.19	0.72
1:M:410:LEU:HD12	1:M:423:PRO:HD3	1.70	0.72
2:N:105:LEU:HD21	2:T:105:LEU:HD11	1.70	0.72
1:Q:39:ILE:CG1	1:Q:40:LEU:HD23	2.13	0.72
1:S:405:LEU:C	1:S:411:VAL:HG11	2.14	0.72
2:T:44:LEU:HD12	2:T:44:LEU:N	2.03	0.72
1:W:195:MET:CE	1:W:198:LYS:CE	2.66	0.72
1:Y:24:VAL:CG2	1:Y:58:THR:HG21	2.06	0.72
1:a:24:VAL:HG22	1:a:58:THR:CG2	2.07	0.72
2:b:44:LEU:HD12	2:b:44:LEU:N	2.03	0.72
1:c:241:LEU:HD11	1:c:263:LEU:CD2	2.16	0.72
1:e:39:ILE:O	1:e:40:LEU:CD2	2.36	0.72
1:e:405:LEU:C	1:e:411:VAL:HG11	2.14	0.72
1:A:348:LYS:O	1:A:352:ILE:HD12	1.89	0.72
1:A:354:GLU:HG2	1:A:430:LYS:HZ2	1.54	0.72
1:C:86:LYS:HD2	1:C:89:MET:CE	2.19	0.72
1:E:411:VAL:N	1:E:423:PRO:HD3	2.03	0.72
1:G:82:ARG:HH11	1:G:82:ARG:HG2	1.53	0.72
1:I:388:LEU:N	1:I:388:LEU:HD23	2.04	0.72
1:M:241:LEU:HD11	1:M:263:LEU:CD2	2.16	0.72
1:S:279:THR:HG21	1:U:118:GLN:HE21	1.48	0.72
1:Y:192:VAL:HB	1:Y:221:ILE:HD12	1.62	0.72
1:c:348:LYS:O	1:c:352:ILE:HD12	1.89	0.72
1:c:410:LEU:HD12	1:c:423:PRO:HD3	1.70	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:e:39:ILE:CG1	1:e:40:LEU:HD23	2.14	0.72
1:e:95:GLU:O	1:e:98:GLN:N	2.21	0.72
1:e:241:LEU:CD2	1:e:243:VAL:HG13	2.19	0.72
1:e:241:LEU:HD11	1:e:263:LEU:CD2	2.16	0.72
1:C:195:MET:CE	1:C:198:LYS:CE	2.66	0.72
2:D:10:MET:O	2:D:15:ARG:NH1	2.23	0.72
1:E:15:ILE:CG2	1:E:95:GLU:HB2	2.19	0.72
2:F:37:GLU:O	2:F:41:GLN:N	2.22	0.72
1:K:39:ILE:O	1:K:40:LEU:CD2	2.36	0.72
2:L:34:LEU:HD23	2:L:72:HIS:HE1	1.52	0.72
1:M:35:MET:HE2	1:M:39:ILE:CD1	2.13	0.72
2:R:105:LEU:HD21	2:X:105:LEU:HD11	1.70	0.72
1:S:172:CYS:HG	1:S:176:PHE:HZ	0.81	0.72
1:U:15:ILE:CG2	1:U:95:GLU:HB2	2.19	0.72
1:U:528:ILE:O	1:U:536:GLU:OE2	2.06	0.72
2:V:17:HIS:CE1	2:V:106:LEU:HA	2.25	0.72
2:V:37:GLU:O	2:V:41:GLN:N	2.22	0.72
1:W:86:LYS:HD2	1:W:89:MET:CE	2.19	0.72
1:W:528:ILE:O	1:W:536:GLU:OE2	2.06	0.72
2:X:10:MET:O	2:X:15:ARG:NH1	2.23	0.72
1:a:15:ILE:CD1	1:a:95:GLU:HB3	2.18	0.72
1:a:388:LEU:N	1:a:388:LEU:HD23	2.04	0.72
1:A:360:LEU:HD12	1:A:365:TYR:CD1	2.25	0.72
1:C:348:LYS:O	1:C:352:ILE:HD12	1.89	0.72
1:C:528:ILE:O	1:C:536:GLU:OE2	2.06	0.72
1:E:348:LYS:O	1:E:352:ILE:HD12	1.89	0.72
1:E:405:LEU:C	1:E:411:VAL:HG11	2.14	0.72
1:E:528:ILE:O	1:E:536:GLU:OE2	2.06	0.72
2:F:17:HIS:CE1	2:F:106:LEU:HA	2.25	0.72
1:G:15:ILE:CG2	1:G:95:GLU:HB2	2.19	0.72
1:I:360:LEU:HD12	1:I:365:TYR:CD1	2.25	0.72
2:L:10:MET:O	2:L:15:ARG:NH1	2.23	0.72
2:L:44:LEU:HD12	2:L:44:LEU:N	2.03	0.72
1:O:15:ILE:CD1	1:O:95:GLU:HB3	2.18	0.72
1:Q:24:VAL:CG2	1:Q:58:THR:HG21	2.06	0.72
1:Q:241:LEU:CD2	1:Q:243:VAL:HG13	2.19	0.72
1:Q:405:LEU:C	1:Q:411:VAL:HG11	2.14	0.72
1:S:15:ILE:CG2	1:S:95:GLU:HB2	2.19	0.72
1:S:86:LYS:HD2	1:S:89:MET:CE	2.19	0.72
1:U:411:VAL:N	1:U:423:PRO:HD3	2.03	0.72
1:Y:241:LEU:CD2	1:Y:243:VAL:HG13	2.19	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Y:405:LEU:C	1:Y:411:VAL:HG11	2.14	0.72
1:c:410:LEU:HD12	1:c:411:VAL:N	1.99	0.72
1:e:86:LYS:HD2	1:e:89:MET:CE	2.19	0.72
1:A:528:ILE:O	1:A:536:GLU:OE2	2.06	0.72
1:G:86:LYS:HD2	1:G:89:MET:CE	2.19	0.72
2:H:10:MET:O	2:H:15:ARG:NH1	2.23	0.72
1:I:528:ILE:O	1:I:536:GLU:OE2	2.06	0.72
1:K:39:ILE:CD1	1:K:76:PHE:HB2	2.20	0.72
1:K:118:GLN:HE21	1:M:279:THR:HG21	1.48	0.72
1:K:410:LEU:HD12	1:K:411:VAL:N	1.99	0.72
1:O:388:LEU:HD23	1:O:388:LEU:N	2.04	0.72
2:P:17:HIS:CE1	2:P:106:LEU:HA	2.25	0.72
2:T:10:MET:O	2:T:15:ARG:NH1	2.23	0.72
1:U:348:LYS:O	1:U:352:ILE:HD12	1.89	0.72
1:U:405:LEU:C	1:U:411:VAL:HG11	2.14	0.72
1:W:348:LYS:O	1:W:352:ILE:HD12	1.89	0.72
1:W:404:LYS:HE2	1:W:404:LYS:HA	1.70	0.72
1:Y:24:VAL:HG22	1:Y:58:THR:CG2	2.07	0.72
1:Y:82:ARG:HH11	1:Y:82:ARG:HG2	1.53	0.72
1:Y:410:LEU:HD12	1:Y:423:PRO:HD3	1.70	0.72
1:a:188:SER:O	1:a:191:THR:CG2	2.28	0.72
2:b:17:HIS:CE1	2:b:106:LEU:HA	2.25	0.72
1:c:279:THR:HG21	1:e:118:GLN:HE21	1.48	0.72
1:e:39:ILE:CD1	1:e:76:PHE:HB2	2.20	0.72
2:f:10:MET:O	2:f:15:ARG:NH1	2.23	0.72
2:f:34:LEU:HD23	2:f:72:HIS:HE1	1.52	0.72
1:A:86:LYS:HD2	1:A:89:MET:CE	2.19	0.72
1:A:233:LYS:CD	1:A:233:LYS:H	2.03	0.72
2:B:57:GLY:CA	2:B:59:PRO:HD2	2.20	0.72
1:C:388:LEU:HD23	1:C:388:LEU:N	2.04	0.72
1:C:576:GLU:OE2	1:C:579:LYS:HE2	1.90	0.72
1:G:129:GLN:CB	1:G:130:PRO:HD3	2.19	0.72
1:G:188:SER:O	1:G:191:THR:CG2	2.28	0.72
2:H:17:HIS:CE1	2:H:106:LEU:HA	2.25	0.72
2:H:43:ILE:HB	2:H:44:LEU:HD12	1.72	0.72
1:I:86:LYS:HD2	1:I:89:MET:CE	2.19	0.72
1:I:233:LYS:CD	1:I:233:LYS:H	2.03	0.72
2:J:57:GLY:CA	2:J:59:PRO:HD2	2.20	0.72
1:K:15:ILE:CG2	1:K:95:GLU:HB2	2.19	0.72
1:K:39:ILE:CG1	1:K:40:LEU:HD23	2.14	0.72
1:K:86:LYS:HD2	1:K:89:MET:CE	2.19	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:354:GLU:HG2	1:K:430:LYS:HZ2	1.55	0.72
1:K:361:GLU:HA	1:K:361:GLU:OE2	1.90	0.72
1:M:354:GLU:HG2	1:M:430:LYS:HZ2	1.52	0.72
1:M:410:LEU:HD12	1:M:411:VAL:N	1.99	0.72
2:N:57:GLY:CA	2:N:59:PRO:HD2	2.20	0.72
1:O:24:VAL:HG22	1:O:58:THR:CG2	2.07	0.72
1:O:39:ILE:CD1	1:O:76:PHE:HB2	2.20	0.72
1:O:360:LEU:HD12	1:O:365:TYR:CD1	2.25	0.72
2:P:105:LEU:HD11	2:V:105:LEU:HD21	1.70	0.72
1:Q:410:LEU:HD12	1:Q:423:PRO:HD3	1.70	0.72
1:S:360:LEU:HD12	1:S:405:LEU:HD22	1.71	0.72
1:a:360:LEU:HD12	1:a:365:TYR:CD1	2.25	0.72
1:e:233:LYS:CD	1:e:233:LYS:H	2.03	0.72
1:e:410:LEU:HD12	1:e:411:VAL:N	1.99	0.72
2:f:44:LEU:HD12	2:f:44:LEU:N	2.03	0.72
2:B:43:ILE:HB	2:B:44:LEU:HD12	1.72	0.72
1:C:545:PHE:HZ	1:C:564:ILE:HB	1.55	0.72
1:E:360:LEU:HD12	1:E:365:TYR:CD1	2.25	0.72
2:F:57:GLY:CA	2:F:59:PRO:HD2	2.20	0.72
1:G:233:LYS:CD	1:G:233:LYS:H	2.03	0.72
1:G:360:LEU:HD12	1:G:405:LEU:HD22	1.71	0.72
1:K:233:LYS:CD	1:K:233:LYS:H	2.03	0.72
1:O:365:TYR:HE1	1:O:404:LYS:HB3	1.51	0.72
1:O:405:LEU:C	1:O:411:VAL:HG11	2.14	0.72
1:Q:39:ILE:CD1	1:Q:76:PHE:HB2	2.20	0.72
1:S:233:LYS:CD	1:S:233:LYS:H	2.03	0.72
1:S:357:LEU:HG	1:S:430:LYS:HZ3	1.55	0.72
2:T:43:ILE:HB	2:T:44:LEU:HD12	1.72	0.72
1:U:360:LEU:HD12	1:U:365:TYR:CD1	2.25	0.72
2:V:57:GLY:CA	2:V:59:PRO:HD2	2.20	0.72
1:W:576:GLU:OE2	1:W:579:LYS:HE2	1.90	0.72
1:a:405:LEU:C	1:a:411:VAL:HG11	2.14	0.72
1:c:35:MET:HE2	1:c:39:ILE:CD1	2.13	0.72
1:c:345:ASN:C	1:c:347:ASP:N	2.42	0.72
1:c:360:LEU:HD12	1:c:365:TYR:CD1	2.25	0.72
2:d:57:GLY:CA	2:d:59:PRO:HD2	2.20	0.72
1:e:361:GLU:OE2	1:e:361:GLU:HA	1.90	0.72
1:A:576:GLU:OE2	1:A:579:LYS:HE2	1.90	0.72
2:B:105:LEU:HD21	2:L:105:LEU:HD11	1.70	0.72
1:C:372:LEU:O	1:C:372:LEU:HD23	1.88	0.72
1:C:404:LYS:HE2	1:C:404:LYS:HA	1.70	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:D:43:ILE:HB	2:D:44:LEU:HD12	1.72	0.72
2:F:105:LEU:HD21	2:b:105:LEU:HD11	1.70	0.72
1:G:241:LEU:CD2	1:G:243:VAL:HG13	2.19	0.72
2:J:43:ILE:HB	2:J:44:LEU:HD12	1.72	0.72
1:M:233:LYS:CD	1:M:233:LYS:H	2.03	0.72
1:M:360:LEU:HD12	1:M:365:TYR:CD1	2.25	0.72
1:M:404:LYS:HE2	1:M:404:LYS:HA	1.70	0.72
1:M:405:LEU:C	1:M:411:VAL:HG11	2.14	0.72
2:N:37:GLU:O	2:N:41:GLN:N	2.22	0.72
2:P:10:MET:O	2:P:15:ARG:NH1	2.23	0.72
1:Q:82:ARG:HH11	1:Q:82:ARG:HG2	1.53	0.72
2:R:10:MET:O	2:R:15:ARG:NH1	2.23	0.72
1:S:129:GLN:CB	1:S:130:PRO:HD3	2.19	0.72
1:U:188:SER:O	1:U:191:THR:CG2	2.28	0.72
2:V:43:ILE:HB	2:V:44:LEU:HD12	1.72	0.72
1:W:388:LEU:HD23	1:W:388:LEU:N	2.04	0.72
1:W:545:PHE:HZ	1:W:564:ILE:HB	1.55	0.72
2:X:43:ILE:HB	2:X:44:LEU:HD12	1.72	0.72
1:Y:39:ILE:CD1	1:Y:76:PHE:HB2	2.20	0.72
2:b:10:MET:O	2:b:15:ARG:NH1	2.23	0.72
1:c:233:LYS:CD	1:c:233:LYS:H	2.03	0.72
1:c:361:GLU:OE2	1:c:361:GLU:HA	1.90	0.72
1:c:404:LYS:HE2	1:c:404:LYS:HA	1.70	0.72
1:c:405:LEU:C	1:c:411:VAL:HG11	2.14	0.72
1:e:15:ILE:CG2	1:e:95:GLU:HB2	2.19	0.72
1:e:279:THR:C	1:e:280:THR:HG22	2.10	0.72
1:C:15:ILE:CD1	1:C:95:GLU:HB3	2.18	0.72
1:E:188:SER:O	1:E:191:THR:CG2	2.28	0.72
1:I:576:GLU:OE2	1:I:579:LYS:HE2	1.90	0.72
1:K:360:LEU:HD12	1:K:365:TYR:CD1	2.25	0.72
1:M:361:GLU:OE2	1:M:361:GLU:HA	1.90	0.72
1:S:241:LEU:CD2	1:S:243:VAL:HG13	2.19	0.72
1:W:372:LEU:HD23	1:W:372:LEU:O	1.88	0.72
1:a:39:ILE:CD1	1:a:76:PHE:HB2	2.20	0.72
1:a:365:TYR:HE1	1:a:404:LYS:HB3	1.51	0.72
2:d:10:MET:O	2:d:15:ARG:NH1	2.23	0.72
2:d:37:GLU:O	2:d:41:GLN:N	2.22	0.72
2:F:43:ILE:HB	2:F:44:LEU:HD12	1.72	0.71
1:M:195:MET:HE1	1:M:198:LYS:HE2	1.70	0.71
2:N:10:MET:O	2:N:15:ARG:NH1	2.23	0.71
1:Q:24:VAL:HG22	1:Q:58:THR:CG2	2.07	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:S:410:LEU:CD2	1:S:426:TYR:HD1	2.00	0.71
2:V:10:MET:O	2:V:15:ARG:NH1	2.23	0.71
1:W:15:ILE:CD1	1:W:95:GLU:HB3	2.18	0.71
2:Z:10:MET:O	2:Z:15:ARG:NH1	2.23	0.71
2:b:37:GLU:O	2:b:41:GLN:N	2.22	0.71
1:c:129:GLN:HB3	1:c:130:PRO:CD	2.15	0.71
1:c:360:LEU:HD12	1:c:365:TYR:HB3	1.72	0.71
1:A:200:LEU:HD13	1:A:224:ILE:CD1	2.21	0.71
1:C:237:TYR:C	1:C:239:ASN:H	1.98	0.71
1:E:86:LYS:HD2	1:E:89:MET:CE	2.19	0.71
1:E:233:LYS:CD	1:E:233:LYS:H	2.03	0.71
2:F:10:MET:O	2:F:15:ARG:NH1	2.23	0.71
1:I:200:LEU:HD13	1:I:224:ILE:CD1	2.21	0.71
1:I:326:ILE:CG2	1:I:349:LEU:HD12	2.20	0.71
1:I:354:GLU:HG2	1:I:430:LYS:HZ2	1.55	0.71
1:I:360:LEU:HD12	1:I:405:LEU:HD22	1.71	0.71
2:J:105:LEU:HD21	2:f:105:LEU:HD11	1.70	0.71
1:K:279:THR:C	1:K:280:THR:HG22	2.10	0.71
1:M:129:GLN:HB3	1:M:130:PRO:CD	2.15	0.71
1:M:360:LEU:HD12	1:M:365:TYR:HB3	1.72	0.71
1:Q:39:ILE:HG12	1:Q:40:LEU:HD21	1.73	0.71
1:S:188:SER:O	1:S:191:THR:CG2	2.28	0.71
1:U:233:LYS:CD	1:U:233:LYS:H	2.03	0.71
1:U:279:THR:C	1:U:280:THR:HG22	2.10	0.71
1:Y:39:ILE:HG12	1:Y:40:LEU:HD21	1.73	0.71
1:e:200:LEU:HD13	1:e:224:ILE:CD1	2.21	0.71
1:e:360:LEU:HD12	1:e:365:TYR:CD1	2.25	0.71
1:A:237:TYR:C	1:A:239:ASN:H	1.98	0.71
1:A:326:ILE:CG2	1:A:349:LEU:HD12	2.20	0.71
1:A:360:LEU:HD12	1:A:405:LEU:HD22	1.71	0.71
1:C:195:MET:HE1	1:C:198:LYS:HE2	1.70	0.71
1:C:360:LEU:HD12	1:C:365:TYR:CD1	2.25	0.71
1:G:200:LEU:HD13	1:G:224:ILE:CD1	2.21	0.71
1:G:404:LYS:HE2	1:G:404:LYS:HA	1.70	0.71
1:I:178:ILE:HG22	1:I:241:LEU:CD2	2.01	0.71
1:K:200:LEU:HD13	1:K:224:ILE:CD1	2.21	0.71
1:O:233:LYS:CD	1:O:233:LYS:H	2.03	0.71
2:P:37:GLU:O	2:P:41:GLN:N	2.22	0.71
1:Q:129:GLN:CB	1:Q:130:PRO:HD3	2.19	0.71
2:R:57:GLY:CA	2:R:59:PRO:HD2	2.20	0.71
1:S:360:LEU:HD12	1:S:365:TYR:CD1	2.25	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:S:404:LYS:HE2	1:S:404:LYS:HA	1.70	0.71
1:U:39:ILE:CD1	1:U:76:PHE:HB2	2.20	0.71
1:W:237:TYR:C	1:W:239:ASN:H	1.98	0.71
1:W:360:LEU:HD12	1:W:365:TYR:CD1	2.25	0.71
1:Y:39:ILE:CG1	1:Y:40:LEU:HD23	2.13	0.71
1:Y:181:LEU:HD13	1:Y:195:MET:HG3	1.73	0.71
2:Z:57:GLY:CA	2:Z:59:PRO:HD2	2.20	0.71
1:a:233:LYS:CD	1:a:233:LYS:H	2.03	0.71
1:a:361:GLU:OE2	1:a:361:GLU:HA	1.90	0.71
1:e:237:TYR:C	1:e:239:ASN:H	1.98	0.71
1:A:178:ILE:HG22	1:A:241:LEU:CD2	2.01	0.71
1:C:345:ASN:C	1:C:347:ASP:N	2.42	0.71
1:C:405:LEU:C	1:C:411:VAL:HG11	2.14	0.71
1:E:39:ILE:CD1	1:E:76:PHE:HB2	2.20	0.71
1:E:181:LEU:HD13	1:E:195:MET:HG3	1.73	0.71
1:E:237:TYR:C	1:E:239:ASN:H	1.98	0.71
1:G:39:ILE:CD1	1:G:76:PHE:HB2	2.20	0.71
1:G:237:TYR:C	1:G:239:ASN:H	1.98	0.71
1:G:410:LEU:CD2	1:G:426:TYR:HD1	2.00	0.71
1:I:237:TYR:C	1:I:239:ASN:H	1.98	0.71
1:K:237:TYR:C	1:K:239:ASN:H	1.98	0.71
1:O:241:LEU:CD2	1:O:243:VAL:HG13	2.19	0.71
1:Q:181:LEU:HD13	1:Q:195:MET:HG3	1.73	0.71
1:Q:545:PHE:HZ	1:Q:564:ILE:HB	1.55	0.71
1:S:200:LEU:HD13	1:S:224:ILE:CD1	2.21	0.71
1:S:237:TYR:C	1:S:239:ASN:H	1.98	0.71
1:U:86:LYS:HD2	1:U:89:MET:CE	2.19	0.71
1:U:181:LEU:HD13	1:U:195:MET:HG3	1.73	0.71
1:U:237:TYR:C	1:U:239:ASN:H	1.98	0.71
1:Y:545:PHE:HZ	1:Y:564:ILE:HB	1.55	0.71
1:c:195:MET:HE1	1:c:198:LYS:HE2	1.70	0.71
1:e:354:GLU:HG2	1:e:430:LYS:HZ2	1.56	0.71
1:e:576:GLU:OE2	1:e:579:LYS:HE2	1.90	0.71
1:A:241:LEU:HD11	1:A:263:LEU:CD2	2.16	0.71
1:G:360:LEU:HD12	1:G:365:TYR:CD1	2.25	0.71
1:G:576:GLU:OE2	1:G:579:LYS:HE2	1.90	0.71
1:I:241:LEU:HD11	1:I:263:LEU:CD2	2.16	0.71
1:M:15:ILE:HG23	1:M:95:GLU:CB	2.20	0.71
1:M:410:LEU:CB	1:M:426:TYR:CD1	2.61	0.71
1:M:453:PHE:CD2	1:M:461:PRO:HG2	2.24	0.71
1:O:15:ILE:HG23	1:O:95:GLU:CB	2.20	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:O:361:GLU:HA	1:O:361:GLU:OE2	1.90	0.71
1:O:576:GLU:OE2	1:O:579:LYS:HE2	1.90	0.71
1:Q:237:TYR:C	1:Q:239:ASN:H	1.98	0.71
1:S:39:ILE:CD1	1:S:76:PHE:HB2	2.20	0.71
1:W:345:ASN:C	1:W:347:ASP:N	2.42	0.71
2:X:17:HIS:CE1	2:X:106:LEU:HA	2.25	0.71
1:Y:49:ILE:O	1:Y:49:ILE:HD13	1.91	0.71
1:Y:129:GLN:CB	1:Y:130:PRO:HD3	2.19	0.71
1:a:404:LYS:HA	1:a:404:LYS:HE2	1.70	0.71
1:c:15:ILE:HG23	1:c:95:GLU:CB	2.20	0.71
1:c:410:LEU:CB	1:c:426:TYR:CD1	2.61	0.71
1:c:453:PHE:CD2	1:c:461:PRO:HG2	2.24	0.71
2:d:17:HIS:CE1	2:d:106:LEU:HA	2.25	0.71
1:e:326:ILE:CG2	1:e:349:LEU:HD12	2.20	0.71
2:f:37:GLU:O	2:f:41:GLN:N	2.22	0.71
1:C:233:LYS:CD	1:C:233:LYS:H	2.03	0.71
2:D:17:HIS:CE1	2:D:106:LEU:HA	2.25	0.71
1:E:231:LEU:CD2	1:E:237:TYR:CE2	2.73	0.71
1:E:279:THR:C	1:E:280:THR:HG22	2.10	0.71
1:E:410:LEU:CD2	1:E:426:TYR:HD1	2.00	0.71
1:G:231:LEU:CD2	1:G:237:TYR:CE2	2.74	0.71
1:K:326:ILE:CG2	1:K:349:LEU:HD12	2.20	0.71
2:L:37:GLU:O	2:L:41:GLN:N	2.22	0.71
2:L:43:ILE:HB	2:L:44:LEU:HD12	1.72	0.71
1:M:39:ILE:CD1	1:M:76:PHE:HB2	2.20	0.71
1:M:545:PHE:HZ	1:M:564:ILE:HB	1.55	0.71
2:N:17:HIS:CE1	2:N:106:LEU:HA	2.25	0.71
1:Q:49:ILE:O	1:Q:49:ILE:HD13	1.91	0.71
1:Q:301:LEU:C	1:Q:301:LEU:HD12	2.16	0.71
1:Q:576:GLU:OE2	1:Q:579:LYS:HE2	1.90	0.71
1:S:231:LEU:CD2	1:S:237:TYR:CE2	2.74	0.71
1:U:172:CYS:HG	1:U:176:PHE:HZ	0.81	0.71
1:U:410:LEU:CD2	1:U:426:TYR:HD1	2.00	0.71
1:W:195:MET:HE1	1:W:198:LYS:HE2	1.70	0.71
1:W:233:LYS:CD	1:W:233:LYS:H	2.03	0.71
1:W:405:LEU:C	1:W:411:VAL:HG11	2.14	0.71
1:Y:301:LEU:C	1:Y:301:LEU:HD12	2.16	0.71
1:a:15:ILE:HG23	1:a:95:GLU:CB	2.20	0.71
1:a:241:LEU:CD2	1:a:243:VAL:HG13	2.19	0.71
1:a:576:GLU:OE2	1:a:579:LYS:HE2	1.90	0.71
1:c:545:PHE:HZ	1:c:564:ILE:HB	1.55	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:39:ILE:CD1	1:A:76:PHE:HB2	2.20	0.71
1:A:102:MET:CE	1:A:172:CYS:SG	2.75	0.71
1:A:227:GLU:OE2	1:A:230:ARG:NH2	2.23	0.71
1:A:410:LEU:HD22	1:A:427:LEU:CA	2.21	0.71
2:B:10:MET:O	2:B:15:ARG:NH1	2.23	0.71
1:C:35:MET:HE2	1:C:39:ILE:CD1	2.13	0.71
1:C:301:LEU:C	1:C:301:LEU:HD12	2.16	0.71
1:E:49:ILE:O	1:E:49:ILE:HD13	1.91	0.71
1:E:545:PHE:HZ	1:E:564:ILE:HB	1.55	0.71
1:I:102:MET:CE	1:I:172:CYS:SG	2.75	0.71
1:I:181:LEU:HD13	1:I:195:MET:HG3	1.73	0.71
1:I:410:LEU:HD22	1:I:427:LEU:CA	2.21	0.71
2:J:10:MET:O	2:J:15:ARG:NH1	2.23	0.71
1:K:576:GLU:OE2	1:K:579:LYS:HE2	1.90	0.71
1:M:235:LYS:CE	1:M:238:GLU:HG3	2.21	0.71
1:O:49:ILE:O	1:O:49:ILE:HD13	1.91	0.71
1:O:166:LEU:HD23	1:O:166:LEU:C	2.16	0.71
1:O:404:LYS:HE2	1:O:404:LYS:HA	1.70	0.71
1:O:410:LEU:HD22	1:O:427:LEU:CA	2.21	0.71
1:Q:233:LYS:CD	1:Q:233:LYS:H	2.03	0.71
1:Q:453:PHE:CD2	1:Q:461:PRO:HG2	2.24	0.71
2:R:43:ILE:HB	2:R:44:LEU:HD12	1.72	0.71
1:S:576:GLU:OE2	1:S:579:LYS:HE2	1.90	0.71
1:U:49:ILE:O	1:U:49:ILE:HD13	1.91	0.71
1:U:231:LEU:CD2	1:U:237:TYR:CE2	2.73	0.71
1:U:301:LEU:C	1:U:301:LEU:HD12	2.16	0.71
1:U:360:LEU:HD12	1:U:405:LEU:HD22	1.71	0.71
1:U:410:LEU:O	1:U:412:GLU:HG3	1.91	0.71
1:U:545:PHE:HZ	1:U:564:ILE:HB	1.55	0.71
1:W:49:ILE:O	1:W:49:ILE:HD13	1.91	0.71
1:Y:166:LEU:HD23	1:Y:166:LEU:C	2.16	0.71
1:Y:233:LYS:CD	1:Y:233:LYS:H	2.03	0.71
1:Y:237:TYR:C	1:Y:239:ASN:H	1.98	0.71
1:Y:453:PHE:CD2	1:Y:461:PRO:HG2	2.24	0.71
1:Y:576:GLU:OE2	1:Y:579:LYS:HE2	1.90	0.71
2:Z:43:ILE:HB	2:Z:44:LEU:HD12	1.72	0.71
1:a:410:LEU:HD22	1:a:427:LEU:CA	2.21	0.71
1:c:235:LYS:CE	1:c:238:GLU:HG3	2.21	0.71
2:f:57:GLY:CA	2:f:59:PRO:HD2	2.20	0.71
1:A:166:LEU:HD23	1:A:166:LEU:C	2.16	0.71
1:A:181:LEU:HD13	1:A:195:MET:HG3	1.73	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:49:ILE:O	1:C:49:ILE:HD13	1.91	0.71
1:C:410:LEU:O	1:C:412:GLU:HG3	1.91	0.71
1:E:410:LEU:O	1:E:412:GLU:HG3	1.91	0.71
1:I:39:ILE:CD1	1:I:76:PHE:HB2	2.20	0.71
1:I:166:LEU:HD23	1:I:166:LEU:C	2.16	0.71
1:I:231:LEU:CD2	1:I:237:TYR:CE2	2.73	0.71
1:I:361:GLU:OE2	1:I:361:GLU:HA	1.90	0.71
1:K:86:LYS:CE	1:K:89:MET:HE3	2.08	0.71
1:K:102:MET:CE	1:K:172:CYS:SG	2.75	0.71
2:L:57:GLY:CA	2:L:59:PRO:HD2	2.20	0.71
1:M:231:LEU:CD2	1:M:237:TYR:CE2	2.73	0.71
1:Q:241:LEU:HD11	1:Q:263:LEU:CD2	2.16	0.71
1:S:410:LEU:O	1:S:412:GLU:HG3	1.91	0.71
1:W:301:LEU:HD12	1:W:301:LEU:C	2.16	0.71
1:W:410:LEU:O	1:W:412:GLU:HG3	1.91	0.71
1:Y:195:MET:CE	1:Y:198:LYS:CE	2.66	0.71
1:a:49:ILE:O	1:a:49:ILE:HD13	1.91	0.71
1:a:87:PHE:CD2	2:b:83:GLY:HA3	2.26	0.71
1:a:166:LEU:HD23	1:a:166:LEU:C	2.16	0.71
2:b:57:GLY:CA	2:b:59:PRO:HD2	2.20	0.71
1:c:39:ILE:CD1	1:c:76:PHE:HB2	2.20	0.71
1:c:200:LEU:HD13	1:c:224:ILE:CD1	2.21	0.71
1:c:231:LEU:CD2	1:c:237:TYR:CE2	2.73	0.71
1:e:102:MET:CE	1:e:172:CYS:SG	2.75	0.71
1:e:183:LEU:HD22	1:e:186:CYS:HG	0.90	0.71
2:f:43:ILE:HB	2:f:44:LEU:HD12	1.72	0.71
1:A:231:LEU:CD2	1:A:237:TYR:CE2	2.73	0.71
1:A:361:GLU:OE2	1:A:361:GLU:HA	1.90	0.71
1:C:118:GLN:HE21	1:E:279:THR:HG21	1.48	0.71
1:C:166:LEU:HD23	1:C:166:LEU:C	2.16	0.71
2:D:37:GLU:O	2:D:41:GLN:N	2.22	0.71
1:E:172:CYS:HG	1:E:176:PHE:HZ	0.81	0.71
1:E:301:LEU:C	1:E:301:LEU:HD12	2.16	0.71
1:E:576:GLU:OE2	1:E:579:LYS:HE2	1.90	0.71
1:G:410:LEU:O	1:G:412:GLU:HG3	1.91	0.71
1:M:181:LEU:HD13	1:M:195:MET:HG3	1.73	0.71
1:M:200:LEU:HD13	1:M:224:ILE:CD1	2.21	0.71
1:O:87:PHE:CD2	2:P:83:GLY:HA3	2.26	0.71
1:O:301:LEU:C	1:O:301:LEU:HD12	2.16	0.71
1:Q:15:ILE:CG2	1:Q:95:GLU:HB2	2.19	0.71
1:Q:102:MET:CE	1:Q:172:CYS:SG	2.75	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Q:166:LEU:HD23	1:Q:166:LEU:C	2.16	0.71
1:S:181:LEU:HD13	1:S:195:MET:HG3	1.73	0.71
1:U:166:LEU:HD23	1:U:166:LEU:C	2.16	0.71
1:Y:241:LEU:HD11	1:Y:263:LEU:CD2	2.16	0.71
1:c:181:LEU:HD13	1:c:195:MET:HG3	1.73	0.71
1:c:237:TYR:C	1:c:239:ASN:H	1.98	0.71
1:e:227:GLU:OE2	1:e:230:ARG:NH2	2.23	0.71
1:e:360:LEU:HD12	1:e:405:LEU:HD22	1.71	0.71
1:C:178:ILE:HG22	1:C:241:LEU:O	1.91	0.71
1:C:241:LEU:CD2	1:C:243:VAL:HG13	2.19	0.71
1:C:326:ILE:CG2	1:C:349:LEU:HD12	2.20	0.71
1:C:446:HIS:O	1:C:450:PRO:HD2	1.91	0.71
1:E:166:LEU:HD23	1:E:166:LEU:C	2.16	0.71
1:E:195:MET:HE1	1:E:198:LYS:HE2	1.70	0.71
1:E:360:LEU:HD12	1:E:405:LEU:HD22	1.71	0.71
1:G:166:LEU:HD23	1:G:166:LEU:C	2.16	0.71
1:G:326:ILE:CG2	1:G:349:LEU:HD12	2.20	0.71
1:K:49:ILE:O	1:K:49:ILE:HD13	1.91	0.71
2:L:85:THR:O	2:L:88:ASN:N	2.24	0.71
1:O:231:LEU:CD2	1:O:237:TYR:CE2	2.74	0.71
1:O:410:LEU:O	1:O:412:GLU:HG3	1.91	0.71
2:P:57:GLY:CA	2:P:59:PRO:HD2	2.20	0.71
1:Q:195:MET:CE	1:Q:198:LYS:CE	2.66	0.71
1:S:49:ILE:O	1:S:49:ILE:HD13	1.91	0.71
1:S:301:LEU:C	1:S:301:LEU:HD12	2.16	0.71
1:S:422:ILE:HG22	1:S:423:PRO:CD	1.78	0.71
1:U:178:ILE:HG22	1:U:241:LEU:O	1.91	0.71
1:U:195:MET:HE1	1:U:198:LYS:HE2	1.70	0.71
1:W:166:LEU:HD23	1:W:166:LEU:C	2.16	0.71
1:W:326:ILE:CG2	1:W:349:LEU:HD12	2.20	0.71
2:X:37:GLU:O	2:X:41:GLN:N	2.22	0.71
1:Y:326:ILE:CG2	1:Y:349:LEU:HD12	2.20	0.71
1:a:231:LEU:CD2	1:a:237:TYR:CE2	2.74	0.71
1:a:301:LEU:C	1:a:301:LEU:HD12	2.16	0.71
1:c:15:ILE:CD1	1:c:95:GLU:HB3	2.18	0.71
1:c:227:GLU:OE2	1:c:230:ARG:NH2	2.23	0.71
1:e:49:ILE:O	1:e:49:ILE:HD13	1.91	0.71
2:f:85:THR:O	2:f:88:ASN:N	2.24	0.71
1:A:235:LYS:CE	1:A:238:GLU:HG3	2.21	0.70
1:C:231:LEU:CD2	1:C:237:TYR:CE2	2.74	0.70
1:E:178:ILE:HG22	1:E:241:LEU:O	1.91	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:200:LEU:HD13	1:E:224:ILE:CD1	2.21	0.70
1:G:49:ILE:O	1:G:49:ILE:HD13	1.91	0.70
1:G:181:LEU:HD13	1:G:195:MET:HG3	1.73	0.70
1:G:410:LEU:HD22	1:G:427:LEU:N	2.06	0.70
2:H:57:GLY:CA	2:H:59:PRO:HD2	2.20	0.70
1:I:49:ILE:O	1:I:49:ILE:HD13	1.91	0.70
1:I:235:LYS:CE	1:I:238:GLU:HG3	2.21	0.70
1:K:227:GLU:OE2	1:K:230:ARG:NH2	2.23	0.70
1:M:237:TYR:C	1:M:239:ASN:H	1.98	0.70
1:M:576:GLU:OE2	1:M:579:LYS:HE2	1.90	0.70
1:O:181:LEU:HD13	1:O:195:MET:HG3	1.73	0.70
1:Q:326:ILE:CG2	1:Q:349:LEU:HD12	2.20	0.70
1:Q:446:HIS:O	1:Q:450:PRO:HD2	1.91	0.70
2:R:85:THR:O	2:R:88:ASN:N	2.24	0.70
1:S:166:LEU:HD23	1:S:166:LEU:C	2.16	0.70
1:S:326:ILE:CG2	1:S:349:LEU:HD12	2.20	0.70
1:S:345:ASN:C	1:S:347:ASP:N	2.42	0.70
1:S:410:LEU:HD22	1:S:427:LEU:CA	2.21	0.70
1:S:410:LEU:HD22	1:S:427:LEU:N	2.06	0.70
2:T:57:GLY:CA	2:T:59:PRO:HD2	2.20	0.70
1:U:39:ILE:HG12	1:U:40:LEU:HD21	1.73	0.70
1:U:200:LEU:HD13	1:U:224:ILE:CD1	2.21	0.70
1:U:576:GLU:OE2	1:U:579:LYS:HE2	1.90	0.70
1:W:178:ILE:HG22	1:W:241:LEU:O	1.91	0.70
1:W:446:HIS:O	1:W:450:PRO:HD2	1.91	0.70
1:Y:15:ILE:CG2	1:Y:95:GLU:HB2	2.19	0.70
1:Y:188:SER:H	1:Y:191:THR:CG2	2.04	0.70
1:Y:446:HIS:O	1:Y:450:PRO:HD2	1.91	0.70
2:Z:85:THR:O	2:Z:88:ASN:N	2.24	0.70
1:a:410:LEU:O	1:a:412:GLU:HG3	1.91	0.70
1:a:446:HIS:O	1:a:450:PRO:HD2	1.91	0.70
1:c:87:PHE:HD2	2:d:83:GLY:CA	1.97	0.70
1:c:410:LEU:HD22	1:c:427:LEU:CA	2.21	0.70
1:A:15:ILE:HG23	1:A:95:GLU:CB	2.20	0.70
1:A:49:ILE:O	1:A:49:ILE:HD13	1.91	0.70
1:A:410:LEU:O	1:A:412:GLU:HG3	1.91	0.70
1:A:453:PHE:CD2	1:A:461:PRO:HG2	2.24	0.70
1:C:410:LEU:HD22	1:C:427:LEU:CA	2.21	0.70
1:E:178:ILE:HG22	1:E:241:LEU:CD2	2.01	0.70
2:F:85:THR:O	2:F:88:ASN:N	2.24	0.70
1:G:301:LEU:C	1:G:301:LEU:HD12	2.16	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:410:LEU:HD22	1:G:427:LEU:CA	2.21	0.70
1:G:422:ILE:HG22	1:G:423:PRO:CD	1.78	0.70
1:I:15:ILE:HG23	1:I:95:GLU:CB	2.20	0.70
1:I:171:GLN:HG2	1:I:176:PHE:CD1	2.26	0.70
1:K:166:LEU:HD23	1:K:166:LEU:C	2.16	0.70
1:K:338:TRP:HA	1:K:338:TRP:CE3	2.26	0.70
1:K:360:LEU:HD12	1:K:405:LEU:HD22	1.71	0.70
1:M:15:ILE:CD1	1:M:95:GLU:HB3	2.18	0.70
1:M:87:PHE:HD2	2:N:83:GLY:CA	1.97	0.70
1:M:227:GLU:OE2	1:M:230:ARG:NH2	2.23	0.70
1:M:410:LEU:HD22	1:M:427:LEU:CA	2.21	0.70
1:M:463:LEU:HB2	1:M:467:PHE:HE1	1.56	0.70
2:N:43:ILE:HB	2:N:44:LEU:HD12	1.72	0.70
1:O:237:TYR:C	1:O:239:ASN:H	1.98	0.70
1:O:446:HIS:O	1:O:450:PRO:HD2	1.91	0.70
1:O:545:PHE:HZ	1:O:564:ILE:HB	1.55	0.70
2:P:85:THR:O	2:P:88:ASN:N	2.24	0.70
1:Q:178:ILE:HG22	1:Q:241:LEU:O	1.91	0.70
1:Q:188:SER:H	1:Q:191:THR:CG2	2.04	0.70
1:Q:360:LEU:HD12	1:Q:365:TYR:CD1	2.25	0.70
1:U:279:THR:HG21	1:W:118:GLN:HE21	1.48	0.70
2:V:85:THR:O	2:V:88:ASN:N	2.24	0.70
1:W:35:MET:HE2	1:W:39:ILE:CD1	2.13	0.70
1:W:39:ILE:CD1	1:W:76:PHE:HB2	2.20	0.70
1:W:231:LEU:CD2	1:W:237:TYR:CE2	2.74	0.70
1:W:241:LEU:CD2	1:W:243:VAL:HG13	2.19	0.70
2:X:85:THR:O	2:X:88:ASN:N	2.24	0.70
1:Y:178:ILE:HG22	1:Y:241:LEU:O	1.91	0.70
1:Y:235:LYS:CE	1:Y:238:GLU:HG3	2.21	0.70
1:a:181:LEU:HD13	1:a:195:MET:HG3	1.73	0.70
1:a:242:LEU:HD22	1:a:262:ILE:CG2	2.21	0.70
2:b:85:THR:O	2:b:88:ASN:N	2.24	0.70
1:c:338:TRP:CE3	1:c:338:TRP:HA	2.26	0.70
1:c:446:HIS:O	1:c:450:PRO:HD2	1.91	0.70
1:c:576:GLU:OE2	1:c:579:LYS:HE2	1.90	0.70
1:e:338:TRP:HA	1:e:338:TRP:CE3	2.26	0.70
2:f:17:HIS:CE1	2:f:106:LEU:HA	2.25	0.70
1:A:171:GLN:HG2	1:A:176:PHE:CD1	2.26	0.70
2:D:85:THR:O	2:D:88:ASN:N	2.24	0.70
1:E:39:ILE:HG12	1:E:40:LEU:HD21	1.73	0.70
1:G:345:ASN:C	1:G:347:ASP:N	2.42	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:420:ILE:HG22	1:G:422:ILE:CD1	2.22	0.70
1:K:410:LEU:HD22	1:K:427:LEU:N	2.06	0.70
1:K:410:LEU:O	1:K:412:GLU:HG3	1.91	0.70
1:M:326:ILE:CG2	1:M:349:LEU:HD12	2.20	0.70
1:M:338:TRP:HA	1:M:338:TRP:CE3	2.26	0.70
1:M:446:HIS:O	1:M:450:PRO:HD2	1.91	0.70
2:N:85:THR:O	2:N:88:ASN:N	2.24	0.70
1:O:188:SER:H	1:O:191:THR:CG2	2.04	0.70
1:O:242:LEU:HD22	1:O:262:ILE:CG2	2.21	0.70
1:O:326:ILE:CG2	1:O:349:LEU:HD12	2.20	0.70
1:O:420:ILE:HG22	1:O:422:ILE:CD1	2.22	0.70
1:Q:242:LEU:HD22	1:Q:262:ILE:CG2	2.21	0.70
1:Q:420:ILE:HG22	1:Q:422:ILE:CD1	2.22	0.70
1:S:420:ILE:HG22	1:S:422:ILE:CD1	2.22	0.70
1:U:15:ILE:HG23	1:U:95:GLU:CB	2.20	0.70
1:U:178:ILE:HG22	1:U:241:LEU:CD2	2.01	0.70
1:W:410:LEU:HD22	1:W:427:LEU:CA	2.21	0.70
1:Y:242:LEU:HD22	1:Y:262:ILE:CG2	2.21	0.70
1:Y:360:LEU:HD12	1:Y:365:TYR:CD1	2.25	0.70
1:a:188:SER:H	1:a:191:THR:CG2	2.04	0.70
1:a:377:PRO:HB3	1:a:428:GLU:HG3	1.73	0.70
1:a:420:ILE:HG22	1:a:422:ILE:CD1	2.22	0.70
1:c:166:LEU:HD23	1:c:166:LEU:C	2.16	0.70
1:c:326:ILE:CG2	1:c:349:LEU:HD12	2.20	0.70
2:d:43:ILE:HB	2:d:44:LEU:HD12	1.72	0.70
2:d:85:THR:O	2:d:88:ASN:N	2.24	0.70
1:e:86:LYS:CE	1:e:89:MET:HE3	2.08	0.70
1:e:166:LEU:HD23	1:e:166:LEU:C	2.16	0.70
1:e:410:LEU:HD22	1:e:427:LEU:N	2.06	0.70
1:e:410:LEU:O	1:e:412:GLU:HG3	1.91	0.70
2:B:85:THR:O	2:B:88:ASN:N	2.24	0.70
1:C:39:ILE:CD1	1:C:76:PHE:HB2	2.20	0.70
1:C:410:LEU:CB	1:C:426:TYR:CD1	2.61	0.70
1:E:15:ILE:HG23	1:E:95:GLU:CB	2.20	0.70
1:E:424:SER:O	1:E:427:LEU:N	2.25	0.70
1:I:227:GLU:OE2	1:I:230:ARG:NH2	2.23	0.70
1:I:410:LEU:O	1:I:412:GLU:HG3	1.91	0.70
1:K:178:ILE:HG22	1:K:241:LEU:O	1.91	0.70
2:L:17:HIS:CE1	2:L:106:LEU:HA	2.25	0.70
1:M:39:ILE:HG12	1:M:40:LEU:HD21	1.73	0.70
1:M:188:SER:H	1:M:191:THR:CG2	2.04	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:O:377:PRO:HB3	1:O:428:GLU:HG3	1.73	0.70
1:O:453:PHE:CD2	1:O:461:PRO:HG2	2.24	0.70
2:P:43:ILE:HB	2:P:44:LEU:HD12	1.72	0.70
1:Q:227:GLU:OE2	1:Q:230:ARG:NH2	2.23	0.70
1:Q:279:THR:HG23	1:Q:280:THR:CG2	2.22	0.70
1:Q:410:LEU:HD22	1:Q:427:LEU:CA	2.21	0.70
1:Q:410:LEU:O	1:Q:412:GLU:HG3	1.91	0.70
1:S:195:MET:HE1	1:S:198:LYS:HE2	1.70	0.70
1:U:424:SER:O	1:U:427:LEU:N	2.25	0.70
1:W:171:GLN:HG2	1:W:176:PHE:CD1	2.26	0.70
1:W:410:LEU:CB	1:W:426:TYR:CD1	2.61	0.70
1:W:410:LEU:HD12	1:W:423:PRO:HD3	1.70	0.70
1:Y:200:LEU:HD13	1:Y:224:ILE:CD1	2.21	0.70
1:Y:279:THR:HG23	1:Y:280:THR:CG2	2.22	0.70
1:Y:410:LEU:O	1:Y:412:GLU:HG3	1.91	0.70
1:Y:420:ILE:HG22	1:Y:422:ILE:CD1	2.22	0.70
1:a:200:LEU:HD13	1:a:224:ILE:CD1	2.21	0.70
1:a:237:TYR:C	1:a:239:ASN:H	1.98	0.70
1:a:326:ILE:CG2	1:a:349:LEU:HD12	2.20	0.70
1:a:545:PHE:HZ	1:a:564:ILE:HB	1.55	0.70
2:b:43:ILE:HB	2:b:44:LEU:HD12	1.72	0.70
1:c:410:LEU:HD22	1:c:427:LEU:N	2.06	0.70
1:c:463:LEU:HB2	1:c:467:PHE:HE1	1.56	0.70
1:e:178:ILE:HG22	1:e:241:LEU:O	1.91	0.70
1:e:231:LEU:CD2	1:e:237:TYR:CE2	2.74	0.70
1:A:545:PHE:HZ	1:A:564:ILE:HB	1.55	0.70
1:C:171:GLN:HG2	1:C:176:PHE:CD1	2.26	0.70
1:G:39:ILE:HG12	1:G:40:LEU:HD21	1.72	0.70
1:G:545:PHE:HZ	1:G:564:ILE:HB	1.55	0.70
2:J:85:THR:O	2:J:88:ASN:N	2.24	0.70
1:K:231:LEU:CD2	1:K:237:TYR:CE2	2.74	0.70
1:K:410:LEU:HD22	1:K:427:LEU:CA	2.21	0.70
1:M:129:GLN:CB	1:M:130:PRO:HD3	2.19	0.70
1:M:166:LEU:HD23	1:M:166:LEU:C	2.16	0.70
1:M:301:LEU:C	1:M:301:LEU:HD12	2.16	0.70
1:M:410:LEU:HD22	1:M:427:LEU:N	2.06	0.70
1:O:227:GLU:OE2	1:O:230:ARG:NH2	2.23	0.70
1:Q:200:LEU:HD13	1:Q:224:ILE:CD1	2.21	0.70
1:S:39:ILE:HG12	1:S:40:LEU:HD21	1.72	0.70
1:S:545:PHE:HZ	1:S:564:ILE:HB	1.55	0.70
1:U:134:LEU:O	1:U:138:LEU:HB2	1.92	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:X:57:GLY:CA	2:X:59:PRO:HD2	2.20	0.70
1:Y:102:MET:CE	1:Y:172:CYS:SG	2.75	0.70
1:Y:360:LEU:HD12	1:Y:365:TYR:HB3	1.72	0.70
1:Y:410:LEU:HD22	1:Y:427:LEU:CA	2.21	0.70
1:a:195:MET:CE	1:a:198:LYS:CE	2.66	0.70
1:a:242:LEU:O	1:a:262:ILE:HB	1.92	0.70
1:c:39:ILE:HG12	1:c:40:LEU:HD21	1.73	0.70
1:c:188:SER:H	1:c:191:THR:CG2	2.04	0.70
2:d:81:GLN:HE21	2:d:81:GLN:CA	2.04	0.70
1:A:134:LEU:O	1:A:138:LEU:HB2	1.92	0.70
1:A:242:LEU:CD2	1:A:262:ILE:CG2	2.70	0.70
1:C:87:PHE:CD2	2:D:83:GLY:HA3	2.26	0.70
1:C:424:SER:O	1:C:427:LEU:N	2.25	0.70
1:E:134:LEU:O	1:E:138:LEU:HB2	1.92	0.70
1:E:242:LEU:O	1:E:262:ILE:HB	1.92	0.70
1:G:195:MET:HE1	1:G:198:LYS:HE2	1.70	0.70
1:G:424:SER:O	1:G:427:LEU:N	2.25	0.70
1:I:134:LEU:O	1:I:138:LEU:HB2	1.92	0.70
1:I:301:LEU:C	1:I:301:LEU:HD12	2.16	0.70
1:I:545:PHE:HZ	1:I:564:ILE:HB	1.55	0.70
1:K:242:LEU:CD2	1:K:262:ILE:CG2	2.70	0.70
1:M:178:ILE:HG22	1:M:241:LEU:O	1.91	0.70
2:N:81:GLN:HE21	2:N:81:GLN:CA	2.04	0.70
1:O:195:MET:CE	1:O:198:LYS:CE	2.66	0.70
1:O:200:LEU:HD13	1:O:224:ILE:CD1	2.21	0.70
1:O:235:LYS:CE	1:O:238:GLU:HG3	2.21	0.70
1:O:242:LEU:O	1:O:262:ILE:HB	1.92	0.70
1:O:279:THR:HG23	1:O:280:THR:CG2	2.22	0.70
1:O:410:LEU:HD22	1:O:427:LEU:N	2.06	0.70
1:Q:134:LEU:O	1:Q:138:LEU:HB2	1.92	0.70
1:Q:242:LEU:O	1:Q:262:ILE:HB	1.92	0.70
1:Q:377:PRO:HB3	1:Q:428:GLU:HG3	1.73	0.70
1:S:227:GLU:OE2	1:S:230:ARG:NH2	2.23	0.70
1:U:242:LEU:O	1:U:262:ILE:HB	1.92	0.70
1:U:279:THR:HG23	1:U:280:THR:CG2	2.22	0.70
1:W:200:LEU:HD13	1:W:224:ILE:CD1	2.21	0.70
1:Y:134:LEU:O	1:Y:138:LEU:HB2	1.92	0.70
1:Y:171:GLN:HG2	1:Y:176:PHE:CD1	2.26	0.70
1:Y:227:GLU:OE2	1:Y:230:ARG:NH2	2.23	0.70
1:a:227:GLU:OE2	1:a:230:ARG:NH2	2.23	0.70
1:a:279:THR:HG23	1:a:280:THR:CG2	2.22	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:a:453:PHE:CD2	1:a:461:PRO:HG2	2.24	0.70
1:c:129:GLN:CB	1:c:130:PRO:HD3	2.19	0.70
1:c:178:ILE:HG22	1:c:241:LEU:O	1.91	0.70
1:c:301:LEU:HD12	1:c:301:LEU:C	2.16	0.70
1:e:242:LEU:CD2	1:e:262:ILE:CG2	2.70	0.70
1:A:301:LEU:C	1:A:301:LEU:HD12	2.16	0.70
1:A:410:LEU:HD22	1:A:427:LEU:N	2.06	0.70
1:C:188:SER:H	1:C:191:THR:CG2	2.04	0.70
1:C:410:LEU:HD12	1:C:423:PRO:HD3	1.70	0.70
1:C:420:ILE:HG22	1:C:422:ILE:CD1	2.22	0.70
2:D:57:GLY:CA	2:D:59:PRO:HD2	2.20	0.70
1:E:279:THR:HG23	1:E:280:THR:CG2	2.22	0.70
1:G:178:ILE:HG22	1:G:241:LEU:O	1.91	0.70
2:H:85:THR:O	2:H:88:ASN:N	2.24	0.70
1:I:242:LEU:CD2	1:I:262:ILE:CG2	2.70	0.70
1:K:301:LEU:C	1:K:301:LEU:HD12	2.16	0.70
2:L:82:ARG:HG3	2:L:82:ARG:NH1	2.00	0.70
1:M:87:PHE:CD2	2:N:83:GLY:HA3	2.26	0.70
1:M:186:CYS:HA	1:M:191:THR:CB	2.22	0.70
1:Q:171:GLN:HG2	1:Q:176:PHE:CD1	2.26	0.70
1:Q:360:LEU:HD12	1:Q:365:TYR:HB3	1.72	0.70
1:S:178:ILE:HG22	1:S:241:LEU:O	1.91	0.70
1:S:424:SER:O	1:S:427:LEU:N	2.25	0.70
2:T:85:THR:O	2:T:88:ASN:N	2.24	0.70
1:U:227:GLU:OE2	1:U:230:ARG:NH2	2.23	0.70
1:W:87:PHE:CD2	2:X:83:GLY:HA3	2.26	0.70
1:W:420:ILE:HG22	1:W:422:ILE:CD1	2.22	0.70
1:W:424:SER:O	1:W:427:LEU:N	2.25	0.70
1:Y:242:LEU:O	1:Y:262:ILE:HB	1.92	0.70
1:Y:354:GLU:HG2	1:Y:430:LYS:HZ2	1.56	0.70
1:Y:377:PRO:HB3	1:Y:428:GLU:HG3	1.73	0.70
1:c:186:CYS:HA	1:c:191:THR:CB	2.22	0.70
1:e:87:PHE:CD2	2:f:83:GLY:HA3	2.26	0.70
1:e:410:LEU:HD22	1:e:427:LEU:CA	2.21	0.70
2:f:82:ARG:HG3	2:f:82:ARG:NH1	2.00	0.70
2:B:17:HIS:CE1	2:B:106:LEU:HA	2.25	0.70
1:C:134:LEU:O	1:C:138:LEU:HB2	1.92	0.70
1:C:200:LEU:HD13	1:C:224:ILE:CD1	2.21	0.70
1:C:410:LEU:HD22	1:C:427:LEU:N	2.06	0.70
1:E:40:LEU:HD23	1:E:40:LEU:N	2.07	0.70
1:E:227:GLU:OE2	1:E:230:ARG:NH2	2.23	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:446:HIS:O	1:E:450:PRO:HD2	1.91	0.70
1:G:227:GLU:OE2	1:G:230:ARG:NH2	2.23	0.70
1:G:254:ASN:O	1:G:257:ASN:ND2	2.25	0.70
1:I:420:ILE:HG22	1:I:422:ILE:CD1	2.22	0.70
1:I:424:SER:O	1:I:427:LEU:N	2.25	0.70
1:K:15:ILE:CD1	1:K:95:GLU:HB3	2.18	0.70
1:K:87:PHE:CD2	2:L:83:GLY:HA3	2.26	0.70
1:K:171:GLN:HG2	1:K:176:PHE:CD1	2.26	0.70
1:M:377:PRO:HB3	1:M:428:GLU:HG3	1.73	0.70
1:S:254:ASN:O	1:S:257:ASN:ND2	2.25	0.70
1:U:40:LEU:HD23	1:U:40:LEU:N	2.07	0.70
1:W:134:LEU:O	1:W:138:LEU:HB2	1.92	0.70
1:W:188:SER:H	1:W:191:THR:CG2	2.04	0.70
1:Y:361:GLU:OE2	1:Y:361:GLU:HA	1.90	0.70
1:a:235:LYS:CE	1:a:238:GLU:HG3	2.21	0.70
1:a:410:LEU:HD22	1:a:427:LEU:N	2.06	0.70
1:e:171:GLN:HG2	1:e:176:PHE:CD1	2.26	0.70
1:A:254:ASN:O	1:A:257:ASN:ND2	2.25	0.70
1:A:377:PRO:HB3	1:A:428:GLU:HG3	1.73	0.70
1:A:424:SER:O	1:A:427:LEU:N	2.25	0.70
1:C:15:ILE:HG23	1:C:95:GLU:CB	2.20	0.70
1:C:227:GLU:OE2	1:C:230:ARG:NH2	2.23	0.70
1:C:410:LEU:C	1:C:423:PRO:CD	2.65	0.70
1:E:410:LEU:C	1:E:423:PRO:CD	2.65	0.70
1:G:377:PRO:HB3	1:G:428:GLU:HG3	1.73	0.70
1:I:410:LEU:HD22	1:I:427:LEU:N	2.06	0.70
1:K:410:LEU:C	1:K:423:PRO:CD	2.65	0.70
1:M:410:LEU:C	1:M:423:PRO:CD	2.65	0.70
1:O:134:LEU:O	1:O:138:LEU:HB2	1.92	0.70
1:O:410:LEU:C	1:O:423:PRO:CD	2.65	0.70
1:Q:231:LEU:CD2	1:Q:237:TYR:CE2	2.73	0.70
1:Q:410:LEU:C	1:Q:423:PRO:CD	2.65	0.70
1:S:410:LEU:C	1:S:423:PRO:CD	2.65	0.70
1:U:410:LEU:C	1:U:423:PRO:CD	2.65	0.70
1:U:446:HIS:O	1:U:450:PRO:HD2	1.91	0.70
1:W:149:ILE:HG21	1:W:283:ILE:HG21	1.74	0.70
1:W:410:LEU:C	1:W:423:PRO:CD	2.65	0.70
1:W:410:LEU:HD22	1:W:427:LEU:N	2.06	0.70
1:Y:87:PHE:HD2	2:Z:83:GLY:CA	1.97	0.70
1:Y:231:LEU:CD2	1:Y:237:TYR:CE2	2.73	0.70
1:Y:410:LEU:C	1:Y:423:PRO:CD	2.65	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:a:172:CYS:HG	1:a:176:PHE:HZ	0.80	0.70
1:a:357:LEU:HG	1:a:430:LYS:HZ3	1.55	0.70
1:a:410:LEU:HD12	1:a:423:PRO:HD3	1.70	0.70
1:a:410:LEU:C	1:a:423:PRO:CD	2.65	0.70
1:c:87:PHE:CD2	2:d:83:GLY:HA3	2.26	0.70
1:c:242:LEU:HD22	1:c:262:ILE:CG2	2.21	0.70
1:c:377:PRO:HB3	1:c:428:GLU:HG3	1.73	0.70
1:c:410:LEU:C	1:c:423:PRO:CD	2.65	0.70
1:e:15:ILE:CD1	1:e:95:GLU:HB3	2.18	0.70
1:e:301:LEU:C	1:e:301:LEU:HD12	2.16	0.70
1:e:410:LEU:C	1:e:423:PRO:CD	2.65	0.70
1:e:420:ILE:HG22	1:e:422:ILE:CD1	2.22	0.70
1:A:87:PHE:CD2	2:B:83:GLY:HA3	2.26	0.70
1:A:149:ILE:HG21	1:A:283:ILE:HG21	1.74	0.70
1:A:420:ILE:HG22	1:A:422:ILE:CD1	2.22	0.70
1:C:129:GLN:CB	1:C:130:PRO:HD3	2.19	0.70
1:C:149:ILE:HG21	1:C:283:ILE:HG21	1.74	0.70
1:C:242:LEU:HD22	1:C:262:ILE:CG2	2.21	0.70
1:E:254:ASN:O	1:E:257:ASN:ND2	2.25	0.70
1:E:410:LEU:HD22	1:E:427:LEU:N	2.06	0.70
1:G:279:THR:HG23	1:G:280:THR:CG2	2.22	0.70
1:G:361:GLU:HA	1:G:361:GLU:OE2	1.90	0.70
1:I:87:PHE:CD2	2:J:83:GLY:HA3	2.26	0.70
1:I:231:LEU:HD23	1:I:237:TYR:CE2	2.27	0.70
1:I:254:ASN:O	1:I:257:ASN:ND2	2.25	0.70
1:I:377:PRO:HB3	1:I:428:GLU:HG3	1.73	0.70
2:J:17:HIS:CE1	2:J:106:LEU:HA	2.25	0.70
1:K:235:LYS:CE	1:K:238:GLU:HG3	2.21	0.70
1:M:420:ILE:HG22	1:M:422:ILE:CD1	2.22	0.70
1:O:463:LEU:HB2	1:O:467:PHE:HE1	1.56	0.70
1:Q:87:PHE:HD2	2:R:83:GLY:CA	1.97	0.70
1:Q:129:GLN:HB3	1:Q:130:PRO:CD	2.15	0.70
1:Q:183:LEU:HD23	1:Q:186:CYS:SG	2.31	0.70
1:Q:200:LEU:HD21	1:Q:207:TRP:CD1	2.27	0.70
1:Q:361:GLU:OE2	1:Q:361:GLU:HA	1.90	0.70
1:S:377:PRO:HB3	1:S:428:GLU:HG3	1.73	0.70
1:U:254:ASN:O	1:U:257:ASN:ND2	2.25	0.70
1:U:410:LEU:HD22	1:U:427:LEU:N	2.06	0.70
1:W:15:ILE:HG23	1:W:95:GLU:CB	2.20	0.70
1:Y:183:LEU:HD23	1:Y:186:CYS:SG	2.31	0.70
1:Y:200:LEU:HD21	1:Y:207:TRP:CD1	2.27	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:a:39:ILE:HG12	1:a:40:LEU:HD21	1.72	0.70
1:a:254:ASN:O	1:a:257:ASN:ND2	2.25	0.70
1:c:420:ILE:HG22	1:c:422:ILE:CD1	2.22	0.70
1:e:446:HIS:O	1:e:450:PRO:HD2	1.91	0.70
1:A:188:SER:H	1:A:191:THR:CG2	2.04	0.69
1:A:231:LEU:HD23	1:A:237:TYR:CE2	2.27	0.69
1:A:338:TRP:HA	1:A:338:TRP:CE3	2.26	0.69
1:A:410:LEU:C	1:A:423:PRO:CD	2.65	0.69
1:C:40:LEU:HD23	1:C:40:LEU:N	2.07	0.69
1:C:200:LEU:HD13	1:C:224:ILE:HD11	1.74	0.69
1:C:318:THR:OG1	1:C:341:TRP:HH2	1.75	0.69
1:C:338:TRP:HA	1:C:338:TRP:CE3	2.26	0.69
1:C:377:PRO:HB3	1:C:428:GLU:HG3	1.73	0.69
1:E:188:SER:H	1:E:191:THR:CG2	2.04	0.69
1:E:200:LEU:HD21	1:E:207:TRP:CD1	2.27	0.69
1:G:231:LEU:HD23	1:G:237:TYR:CE2	2.27	0.69
1:I:129:GLN:CB	1:I:130:PRO:HD3	2.19	0.69
1:I:149:ILE:HG21	1:I:283:ILE:HG21	1.74	0.69
1:I:338:TRP:HA	1:I:338:TRP:CE3	2.26	0.69
1:I:410:LEU:C	1:I:423:PRO:CD	2.65	0.69
1:I:446:HIS:O	1:I:450:PRO:HD2	1.91	0.69
1:K:149:ILE:HG21	1:K:283:ILE:HG21	1.74	0.69
1:K:420:ILE:HG22	1:K:422:ILE:CD1	2.22	0.69
1:M:231:LEU:HD23	1:M:237:TYR:CE2	2.27	0.69
1:M:242:LEU:HD22	1:M:262:ILE:CG2	2.21	0.69
1:O:172:CYS:HG	1:O:176:PHE:HZ	0.80	0.69
1:O:254:ASN:O	1:O:257:ASN:ND2	2.25	0.69
1:O:410:LEU:HD12	1:O:423:PRO:HD3	1.70	0.69
1:Q:200:LEU:HD13	1:Q:224:ILE:HD11	1.74	0.69
1:S:231:LEU:HD23	1:S:237:TYR:CE2	2.27	0.69
1:S:242:LEU:CD2	1:S:262:ILE:CG2	2.70	0.69
1:S:279:THR:HG23	1:S:280:THR:CG2	2.22	0.69
1:S:361:GLU:HA	1:S:361:GLU:OE2	1.90	0.69
1:U:171:GLN:HG2	1:U:176:PHE:CD1	2.26	0.69
1:U:200:LEU:HD21	1:U:207:TRP:CD1	2.27	0.69
1:U:410:LEU:HD22	1:U:427:LEU:CA	2.21	0.69
1:W:24:VAL:HG22	1:W:58:THR:CG2	2.07	0.69
1:W:40:LEU:HD23	1:W:40:LEU:N	2.07	0.69
1:W:227:GLU:OE2	1:W:230:ARG:NH2	2.23	0.69
1:W:242:LEU:HD22	1:W:262:ILE:CG2	2.21	0.69
1:W:242:LEU:O	1:W:262:ILE:HB	1.92	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:W:318:THR:OG1	1:W:341:TRP:HH2	1.75	0.69
1:a:134:LEU:O	1:a:138:LEU:HB2	1.92	0.69
1:a:338:TRP:HA	1:a:338:TRP:CE3	2.26	0.69
1:c:134:LEU:O	1:c:138:LEU:HB2	1.92	0.69
1:c:231:LEU:HD23	1:c:237:TYR:CE2	2.27	0.69
1:e:15:ILE:HG23	1:e:95:GLU:CB	2.20	0.69
1:e:242:LEU:HD22	1:e:262:ILE:CG2	2.21	0.69
1:A:318:THR:OG1	1:A:341:TRP:HH2	1.75	0.69
1:A:410:LEU:HD12	1:A:423:PRO:HD3	1.70	0.69
1:A:446:HIS:O	1:A:450:PRO:HD2	1.91	0.69
1:C:181:LEU:HD13	1:C:195:MET:HG3	1.73	0.69
1:C:254:ASN:O	1:C:257:ASN:ND2	2.25	0.69
1:E:15:ILE:CD1	1:E:95:GLU:HB3	2.18	0.69
1:E:235:LYS:CE	1:E:238:GLU:HG3	2.21	0.69
1:E:410:LEU:HD22	1:E:427:LEU:CA	2.21	0.69
1:G:15:ILE:HG23	1:G:95:GLU:CB	2.20	0.69
1:G:242:LEU:CD2	1:G:262:ILE:CG2	2.70	0.69
1:G:369:PHE:CE1	1:G:411:VAL:HG23	2.28	0.69
1:K:188:SER:H	1:K:191:THR:CG2	2.04	0.69
1:K:424:SER:O	1:K:427:LEU:N	2.25	0.69
1:K:446:HIS:O	1:K:450:PRO:HD2	1.91	0.69
1:M:134:LEU:O	1:M:138:LEU:HB2	1.92	0.69
1:M:200:LEU:HD13	1:M:224:ILE:HD11	1.74	0.69
1:O:171:GLN:HG2	1:O:176:PHE:CD1	2.26	0.69
1:O:200:LEU:HD13	1:O:224:ILE:HD11	1.74	0.69
1:Q:242:LEU:CD2	1:Q:262:ILE:CG2	2.70	0.69
1:S:40:LEU:HD23	1:S:40:LEU:N	2.07	0.69
1:U:188:SER:H	1:U:191:THR:CG2	2.04	0.69
1:U:235:LYS:CE	1:U:238:GLU:HG3	2.21	0.69
1:U:326:ILE:CG2	1:U:349:LEU:HD12	2.20	0.69
1:W:200:LEU:HD13	1:W:224:ILE:HD11	1.74	0.69
1:W:377:PRO:HB3	1:W:428:GLU:HG3	1.73	0.69
1:Y:15:ILE:HG23	1:Y:95:GLU:CB	2.20	0.69
1:Y:186:CYS:HA	1:Y:191:THR:CB	2.22	0.69
1:Y:200:LEU:HD13	1:Y:224:ILE:HD11	1.74	0.69
1:Y:242:LEU:CD2	1:Y:262:ILE:CG2	2.70	0.69
1:Y:410:LEU:HD22	1:Y:427:LEU:N	2.06	0.69
1:a:171:GLN:HG2	1:a:176:PHE:CD1	2.26	0.69
1:e:39:ILE:HG12	1:e:40:LEU:HD21	1.72	0.69
1:e:181:LEU:HD13	1:e:195:MET:HG3	1.73	0.69
1:e:188:SER:H	1:e:191:THR:CG2	2.04	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:e:235:LYS:CE	1:e:238:GLU:HG3	2.21	0.69
1:e:545:PHE:HZ	1:e:564:ILE:HB	1.55	0.69
1:A:15:ILE:CD1	1:A:95:GLU:HB3	2.18	0.69
1:A:120:PHE:HE1	1:A:124:ASN:CB	2.04	0.69
1:A:327:ILE:HG21	1:A:341:TRP:HE3	1.58	0.69
1:C:242:LEU:O	1:C:262:ILE:HB	1.92	0.69
1:E:149:ILE:HG21	1:E:283:ILE:HG21	1.74	0.69
1:E:171:GLN:HG2	1:E:176:PHE:CD1	2.26	0.69
1:E:338:TRP:HA	1:E:338:TRP:CE3	2.26	0.69
1:G:40:LEU:HD23	1:G:40:LEU:N	2.07	0.69
1:I:15:ILE:CD1	1:I:95:GLU:HB3	2.18	0.69
1:I:188:SER:H	1:I:191:THR:CG2	2.04	0.69
1:I:241:LEU:CD2	1:I:243:VAL:HG13	2.19	0.69
1:I:318:THR:OG1	1:I:341:TRP:HH2	1.75	0.69
1:I:327:ILE:HG21	1:I:341:TRP:HE3	1.58	0.69
1:K:15:ILE:HG23	1:K:95:GLU:CB	2.20	0.69
1:K:39:ILE:HG12	1:K:40:LEU:HD21	1.72	0.69
1:K:242:LEU:HD22	1:K:262:ILE:CG2	2.21	0.69
1:K:369:PHE:CE1	1:K:411:VAL:HG23	2.28	0.69
1:M:171:GLN:HG2	1:M:176:PHE:CD1	2.26	0.69
1:M:242:LEU:CD2	1:M:262:ILE:CG2	2.70	0.69
1:M:318:THR:OG1	1:M:341:TRP:HH2	1.75	0.69
1:M:369:PHE:CE1	1:M:411:VAL:HG23	2.27	0.69
1:O:15:ILE:HG23	1:O:95:GLU:HB3	1.74	0.69
1:O:39:ILE:HG12	1:O:40:LEU:HD21	1.72	0.69
1:O:231:LEU:HD23	1:O:237:TYR:CE2	2.27	0.69
1:O:338:TRP:HA	1:O:338:TRP:CE3	2.26	0.69
1:O:357:LEU:HG	1:O:430:LYS:HZ3	1.55	0.69
1:Q:186:CYS:HA	1:Q:191:THR:CB	2.22	0.69
1:Q:354:GLU:HG2	1:Q:430:LYS:HZ2	1.57	0.69
1:Q:410:LEU:HD22	1:Q:427:LEU:N	2.06	0.69
1:Q:424:SER:O	1:Q:427:LEU:N	2.25	0.69
1:S:235:LYS:CE	1:S:238:GLU:HG3	2.21	0.69
1:S:369:PHE:CE1	1:S:411:VAL:HG23	2.28	0.69
1:U:15:ILE:CD1	1:U:95:GLU:HB3	2.18	0.69
1:U:369:PHE:CE1	1:U:411:VAL:HG23	2.27	0.69
1:W:129:GLN:CB	1:W:130:PRO:HD3	2.19	0.69
1:W:254:ASN:O	1:W:257:ASN:ND2	2.25	0.69
1:W:338:TRP:CE3	1:W:338:TRP:HA	2.26	0.69
1:Y:129:GLN:HB3	1:Y:130:PRO:CD	2.15	0.69
1:Y:318:THR:OG1	1:Y:341:TRP:HH2	1.75	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:a:200:LEU:HD13	1:a:224:ILE:HD11	1.74	0.69
1:a:463:LEU:HB2	1:a:467:PHE:HE1	1.56	0.69
2:b:81:GLN:HE21	2:b:81:GLN:CA	2.04	0.69
1:c:171:GLN:HG2	1:c:176:PHE:CD1	2.26	0.69
1:c:200:LEU:HD13	1:c:224:ILE:HD11	1.74	0.69
1:c:237:TYR:C	1:c:239:ASN:N	2.50	0.69
1:c:241:LEU:CD2	1:c:243:VAL:HG13	2.19	0.69
1:c:242:LEU:CD2	1:c:262:ILE:CG2	2.70	0.69
1:c:318:THR:OG1	1:c:341:TRP:HH2	1.75	0.69
1:c:369:PHE:CE1	1:c:411:VAL:HG23	2.27	0.69
1:c:410:LEU:O	1:c:412:GLU:HG3	1.91	0.69
1:e:149:ILE:HG21	1:e:283:ILE:HG21	1.74	0.69
1:e:369:PHE:CE1	1:e:411:VAL:HG23	2.28	0.69
1:A:129:GLN:CB	1:A:130:PRO:HD3	2.19	0.69
1:C:279:THR:HG23	1:C:280:THR:CG2	2.22	0.69
1:C:352:ILE:HD12	1:C:352:ILE:N	2.08	0.69
1:E:87:PHE:CD2	2:F:83:GLY:HA3	2.26	0.69
1:E:369:PHE:CZ	1:E:410:LEU:CD2	2.76	0.69
1:E:369:PHE:CE1	1:E:411:VAL:HG23	2.27	0.69
1:E:410:LEU:CB	1:E:426:TYR:CD1	2.61	0.69
1:G:200:LEU:HD21	1:G:207:TRP:CD1	2.27	0.69
1:K:181:LEU:HD13	1:K:195:MET:HG3	1.73	0.69
1:K:545:PHE:HZ	1:K:564:ILE:HB	1.55	0.69
1:M:279:THR:HG23	1:M:280:THR:CG2	2.22	0.69
1:M:422:ILE:CG2	1:M:423:PRO:HD3	2.23	0.69
1:M:424:SER:O	1:M:427:LEU:N	2.25	0.69
2:P:81:GLN:HE21	2:P:81:GLN:CA	2.04	0.69
1:Q:15:ILE:HG23	1:Q:95:GLU:CB	2.20	0.69
1:Q:318:THR:OG1	1:Q:341:TRP:HH2	1.75	0.69
1:S:241:LEU:HD11	1:S:263:LEU:CD2	2.16	0.69
1:S:242:LEU:HD22	1:S:262:ILE:CG2	2.21	0.69
1:U:149:ILE:HG21	1:U:283:ILE:HG21	1.74	0.69
1:U:369:PHE:CZ	1:U:410:LEU:CD2	2.76	0.69
1:W:181:LEU:HD13	1:W:195:MET:HG3	1.73	0.69
1:W:352:ILE:HD12	1:W:352:ILE:N	2.08	0.69
1:a:15:ILE:HG23	1:a:95:GLU:HB3	1.74	0.69
1:a:174:MET:SD	1:a:241:LEU:HD13	2.33	0.69
1:a:231:LEU:HD23	1:a:237:TYR:CE2	2.27	0.69
1:c:183:LEU:CD2	1:c:186:CYS:HG	1.88	0.69
1:c:279:THR:HG23	1:c:280:THR:CG2	2.22	0.69
1:c:422:ILE:CG2	1:c:423:PRO:HD3	2.23	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:e:186:CYS:HA	1:e:191:THR:CB	2.22	0.69
1:e:327:ILE:HG21	1:e:341:TRP:HE3	1.58	0.69
1:e:410:LEU:CD1	1:e:423:PRO:HD3	2.15	0.69
1:e:424:SER:O	1:e:427:LEU:N	2.25	0.69
1:A:352:ILE:HD12	1:A:352:ILE:N	2.08	0.69
1:A:369:PHE:HZ	1:A:410:LEU:CD2	2.06	0.69
1:A:369:PHE:CZ	1:A:410:LEU:CD2	2.76	0.69
1:A:492:LEU:HD13	1:A:561:LEU:HG	1.74	0.69
1:C:172:CYS:HG	1:C:176:PHE:HZ	0.80	0.69
1:C:231:LEU:HD23	1:C:237:TYR:CE2	2.27	0.69
1:C:361:GLU:HA	1:C:361:GLU:OE2	1.90	0.69
1:E:326:ILE:CG2	1:E:349:LEU:HD12	2.20	0.69
1:E:453:PHE:CD2	1:E:461:PRO:HG2	2.24	0.69
1:G:134:LEU:O	1:G:138:LEU:HB2	1.92	0.69
1:G:178:ILE:HG22	1:G:241:LEU:CD2	2.01	0.69
1:G:241:LEU:HD11	1:G:263:LEU:CD2	2.16	0.69
1:G:242:LEU:HD22	1:G:262:ILE:CG2	2.21	0.69
1:I:120:PHE:HE1	1:I:124:ASN:CB	2.04	0.69
1:I:186:CYS:HA	1:I:191:THR:CB	2.22	0.69
1:I:369:PHE:HZ	1:I:410:LEU:CD2	2.06	0.69
1:I:492:LEU:HD13	1:I:561:LEU:HG	1.74	0.69
1:K:186:CYS:HA	1:K:191:THR:CB	2.22	0.69
1:K:327:ILE:HG21	1:K:341:TRP:HE3	1.58	0.69
1:K:369:PHE:HZ	1:K:410:LEU:CD2	2.06	0.69
1:K:422:ILE:CG2	1:K:423:PRO:HD3	2.23	0.69
1:M:15:ILE:HG23	1:M:95:GLU:HB3	1.74	0.69
1:M:410:LEU:O	1:M:412:GLU:HG3	1.91	0.69
1:O:174:MET:SD	1:O:241:LEU:HD13	2.33	0.69
1:S:15:ILE:HG23	1:S:95:GLU:CB	2.20	0.69
1:S:87:PHE:CD2	2:T:83:GLY:HA3	2.26	0.69
1:S:200:LEU:HD21	1:S:207:TRP:CD1	2.27	0.69
1:U:87:PHE:CD2	2:V:83:GLY:HA3	2.26	0.69
1:U:338:TRP:HA	1:U:338:TRP:CE3	2.26	0.69
1:W:231:LEU:HD23	1:W:237:TYR:CE2	2.27	0.69
1:W:279:THR:HG23	1:W:280:THR:CG2	2.22	0.69
1:W:369:PHE:CE1	1:W:411:VAL:HG23	2.28	0.69
1:Y:424:SER:O	1:Y:427:LEU:N	2.25	0.69
1:a:369:PHE:CZ	1:a:410:LEU:CD2	2.76	0.69
1:c:424:SER:O	1:c:427:LEU:N	2.25	0.69
1:e:200:LEU:HD13	1:e:224:ILE:HD11	1.74	0.69
1:e:369:PHE:HZ	1:e:410:LEU:CD2	2.06	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:186:CYS:HA	1:A:191:THR:CB	2.22	0.69
1:A:200:LEU:HD13	1:A:224:ILE:HD11	1.74	0.69
1:A:237:TYR:C	1:A:239:ASN:N	2.50	0.69
1:A:241:LEU:CD2	1:A:243:VAL:HG13	2.19	0.69
1:C:235:LYS:CE	1:C:238:GLU:HG3	2.21	0.69
1:C:369:PHE:CE1	1:C:411:VAL:HG23	2.28	0.69
1:E:200:LEU:HD13	1:E:224:ILE:HD11	1.74	0.69
1:G:87:PHE:CD2	2:H:83:GLY:HA3	2.26	0.69
1:I:200:LEU:HD13	1:I:224:ILE:HD11	1.74	0.69
1:I:352:ILE:HD12	1:I:352:ILE:N	2.08	0.69
1:I:369:PHE:CZ	1:I:410:LEU:CD2	2.76	0.69
1:K:200:LEU:HD13	1:K:224:ILE:HD11	1.74	0.69
1:O:369:PHE:CZ	1:O:410:LEU:CD2	2.76	0.69
1:O:424:SER:O	1:O:427:LEU:N	2.25	0.69
1:O:492:LEU:HD13	1:O:561:LEU:HG	1.74	0.69
1:Q:369:PHE:CZ	1:Q:410:LEU:CD2	2.76	0.69
1:S:134:LEU:O	1:S:138:LEU:HB2	1.92	0.69
1:U:200:LEU:HD13	1:U:224:ILE:HD11	1.74	0.69
1:U:345:ASN:C	1:U:347:ASP:N	2.42	0.69
1:Y:231:LEU:HD23	1:Y:237:TYR:CE2	2.27	0.69
1:Y:369:PHE:CZ	1:Y:410:LEU:CD2	2.76	0.69
1:a:352:ILE:HD12	1:a:352:ILE:N	2.08	0.69
1:a:492:LEU:HD13	1:a:561:LEU:HG	1.74	0.69
1:c:15:ILE:HG23	1:c:95:GLU:HB3	1.74	0.69
1:e:422:ILE:CG2	1:e:423:PRO:HD3	2.23	0.69
1:C:24:VAL:HG22	1:C:58:THR:CG2	2.07	0.69
1:E:104:ARG:C	1:E:107:ILE:HG22	2.18	0.69
1:G:186:CYS:HA	1:G:191:THR:CB	2.22	0.69
1:G:188:SER:H	1:G:191:THR:CG2	2.04	0.69
1:G:338:TRP:HA	1:G:338:TRP:CE3	2.26	0.69
1:G:410:LEU:C	1:G:423:PRO:CD	2.65	0.69
1:G:492:LEU:HD13	1:G:561:LEU:HG	1.74	0.69
1:I:237:TYR:C	1:I:239:ASN:N	2.50	0.69
1:I:453:PHE:CD2	1:I:461:PRO:HG2	2.24	0.69
1:K:134:LEU:O	1:K:138:LEU:HB2	1.92	0.69
1:K:242:LEU:O	1:K:262:ILE:HB	1.92	0.69
1:K:279:THR:HG23	1:K:280:THR:CG2	2.22	0.69
1:K:369:PHE:CZ	1:K:410:LEU:CD2	2.76	0.69
1:O:352:ILE:HD12	1:O:352:ILE:N	2.08	0.69
1:Q:15:ILE:HG23	1:Q:95:GLU:HB3	1.74	0.69
1:Q:87:PHE:CD2	2:R:83:GLY:HA3	2.26	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Q:104:ARG:C	1:Q:107:ILE:HG22	2.18	0.69
1:S:186:CYS:HA	1:S:191:THR:CB	2.22	0.69
1:S:492:LEU:HD13	1:S:561:LEU:HG	1.74	0.69
1:U:104:ARG:C	1:U:107:ILE:HG22	2.18	0.69
1:U:242:LEU:HD22	1:U:262:ILE:CG2	2.21	0.69
1:U:410:LEU:CB	1:U:426:TYR:CD1	2.61	0.69
1:W:104:ARG:C	1:W:107:ILE:HG22	2.18	0.69
1:W:235:LYS:CE	1:W:238:GLU:HG3	2.21	0.69
1:W:360:LEU:HD12	1:W:405:LEU:HD22	1.71	0.69
1:W:361:GLU:HA	1:W:361:GLU:OE2	1.90	0.69
1:Y:15:ILE:HG23	1:Y:95:GLU:HB3	1.74	0.69
1:Y:104:ARG:C	1:Y:107:ILE:HG22	2.18	0.69
1:Y:327:ILE:HG21	1:Y:341:TRP:HE3	1.58	0.69
1:a:200:LEU:HD21	1:a:207:TRP:CD1	2.27	0.69
1:a:237:TYR:C	1:a:239:ASN:N	2.50	0.69
1:a:424:SER:O	1:a:427:LEU:N	2.25	0.69
1:e:200:LEU:HD21	1:e:207:TRP:CD1	2.27	0.69
1:e:254:ASN:O	1:e:257:ASN:ND2	2.25	0.69
1:e:279:THR:HG23	1:e:280:THR:CG2	2.22	0.69
1:e:369:PHE:CZ	1:e:410:LEU:CD2	2.76	0.69
1:A:104:ARG:C	1:A:107:ILE:HG22	2.18	0.69
1:A:242:LEU:HD22	1:A:262:ILE:CG2	2.21	0.69
1:A:369:PHE:CE1	1:A:411:VAL:HG23	2.27	0.69
1:C:104:ARG:C	1:C:107:ILE:HG22	2.18	0.69
1:C:186:CYS:HA	1:C:191:THR:CB	2.22	0.69
1:C:242:LEU:CD2	1:C:262:ILE:CG2	2.70	0.69
1:C:453:PHE:CD2	1:C:461:PRO:HG2	2.24	0.69
2:D:44:LEU:HB3	2:D:48:MET:CB	2.23	0.69
2:D:85:THR:O	2:D:87:TYR:N	2.26	0.69
1:E:231:LEU:HD23	1:E:237:TYR:CE2	2.27	0.69
1:E:242:LEU:HD22	1:E:262:ILE:CG2	2.21	0.69
1:E:242:LEU:CD2	1:E:262:ILE:CG2	2.70	0.69
1:E:345:ASN:C	1:E:347:ASP:N	2.42	0.69
1:E:361:GLU:OE2	1:E:361:GLU:HA	1.90	0.69
1:G:352:ILE:HD12	1:G:352:ILE:N	2.08	0.69
1:I:104:ARG:C	1:I:107:ILE:HG22	2.18	0.69
1:I:178:ILE:HG22	1:I:241:LEU:O	1.91	0.69
1:I:369:PHE:CE1	1:I:411:VAL:HG23	2.27	0.69
1:K:200:LEU:HD21	1:K:207:TRP:CD1	2.27	0.69
1:K:254:ASN:O	1:K:257:ASN:ND2	2.25	0.69
1:K:318:THR:OG1	1:K:341:TRP:HH2	1.75	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:453:PHE:CD2	1:K:461:PRO:HG2	2.24	0.69
1:M:49:ILE:O	1:M:49:ILE:HD13	1.91	0.69
1:M:183:LEU:CD2	1:M:186:CYS:HG	1.88	0.69
1:M:241:LEU:CD2	1:M:243:VAL:HG13	2.19	0.69
1:M:242:LEU:O	1:M:262:ILE:HB	1.92	0.69
1:M:352:ILE:HD12	1:M:352:ILE:N	2.08	0.69
1:O:186:CYS:HA	1:O:191:THR:CB	2.22	0.69
1:O:200:LEU:HD21	1:O:207:TRP:CD1	2.27	0.69
1:O:237:TYR:C	1:O:239:ASN:N	2.50	0.69
1:Q:40:LEU:HD23	1:Q:40:LEU:N	2.07	0.69
1:Q:231:LEU:HD23	1:Q:237:TYR:CE2	2.27	0.69
1:Q:327:ILE:HG21	1:Q:341:TRP:HE3	1.58	0.69
1:Q:369:PHE:CE1	1:Q:411:VAL:HG23	2.27	0.69
1:Q:422:ILE:CG2	1:Q:423:PRO:HD3	2.23	0.69
1:S:178:ILE:HG22	1:S:241:LEU:CD2	2.01	0.69
1:S:188:SER:H	1:S:191:THR:CG2	2.04	0.69
1:S:338:TRP:HA	1:S:338:TRP:CE3	2.26	0.69
1:S:352:ILE:HD12	1:S:352:ILE:N	2.08	0.69
1:U:231:LEU:HD23	1:U:237:TYR:CE2	2.27	0.69
1:U:242:LEU:CD2	1:U:262:ILE:CG2	2.70	0.69
1:U:377:PRO:HB3	1:U:428:GLU:HG3	1.73	0.69
1:U:453:PHE:CD2	1:U:461:PRO:HG2	2.24	0.69
1:W:242:LEU:CD2	1:W:262:ILE:CG2	2.70	0.69
2:X:44:LEU:HB3	2:X:48:MET:CB	2.23	0.69
2:X:85:THR:O	2:X:87:TYR:N	2.26	0.69
1:Y:149:ILE:HG21	1:Y:283:ILE:HG21	1.74	0.69
1:Y:369:PHE:CE1	1:Y:411:VAL:HG23	2.27	0.69
1:Y:422:ILE:CG2	1:Y:423:PRO:HD3	2.23	0.69
2:Z:17:HIS:CE1	2:Z:106:LEU:HA	2.25	0.69
1:a:87:PHE:HD2	2:b:83:GLY:CA	1.97	0.69
1:c:49:ILE:O	1:c:49:ILE:HD13	1.91	0.69
1:c:172:CYS:HG	1:c:176:PHE:HZ	0.82	0.69
1:c:174:MET:SD	1:c:241:LEU:HD13	2.33	0.69
1:e:134:LEU:O	1:e:138:LEU:HB2	1.92	0.69
1:e:242:LEU:O	1:e:262:ILE:HB	1.92	0.69
1:e:318:THR:OG1	1:e:341:TRP:HH2	1.75	0.69
1:E:420:ILE:HG22	1:E:422:ILE:CD1	2.22	0.69
1:G:237:TYR:C	1:G:239:ASN:N	2.50	0.69
1:I:183:LEU:HD22	1:I:186:CYS:HG	0.89	0.69
1:I:242:LEU:HD22	1:I:262:ILE:CG2	2.21	0.69
1:K:410:LEU:CD2	1:K:427:LEU:HA	2.23	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:369:PHE:CZ	1:M:410:LEU:CD2	2.76	0.69
1:O:87:PHE:HD2	2:P:83:GLY:CA	1.97	0.69
1:O:369:PHE:CE1	1:O:411:VAL:HG23	2.28	0.69
1:Q:174:MET:SD	1:Q:241:LEU:HD13	2.33	0.69
1:Q:338:TRP:HA	1:Q:338:TRP:CE3	2.26	0.69
1:Q:352:ILE:HD12	1:Q:352:ILE:N	2.08	0.69
1:Q:492:LEU:HD13	1:Q:561:LEU:HG	1.74	0.69
1:S:15:ILE:CD1	1:S:95:GLU:HB3	2.18	0.69
1:S:237:TYR:C	1:S:239:ASN:N	2.50	0.69
2:T:17:HIS:CE1	2:T:106:LEU:HA	2.25	0.69
1:U:361:GLU:OE2	1:U:361:GLU:HA	1.90	0.69
1:U:420:ILE:HG22	1:U:422:ILE:CD1	2.22	0.69
1:W:172:CYS:HG	1:W:176:PHE:HZ	0.80	0.69
1:W:186:CYS:HA	1:W:191:THR:CB	2.22	0.69
1:W:241:LEU:HD11	1:W:263:LEU:CD2	2.16	0.69
1:W:453:PHE:CD2	1:W:461:PRO:HG2	2.24	0.69
1:Y:40:LEU:HD23	1:Y:40:LEU:N	2.07	0.69
1:Y:87:PHE:CD2	2:Z:83:GLY:HA3	2.26	0.69
1:Y:174:MET:SD	1:Y:241:LEU:HD13	2.33	0.69
2:Z:85:THR:O	2:Z:87:TYR:N	2.26	0.69
1:a:369:PHE:CE1	1:a:411:VAL:HG23	2.28	0.69
1:c:242:LEU:O	1:c:262:ILE:HB	1.92	0.69
1:c:327:ILE:HG21	1:c:341:TRP:HE3	1.58	0.69
1:c:352:ILE:HD12	1:c:352:ILE:N	2.08	0.69
1:e:410:LEU:CD2	1:e:427:LEU:HA	2.23	0.69
1:e:453:PHE:CD2	1:e:461:PRO:HG2	2.24	0.69
1:A:178:ILE:HG22	1:A:241:LEU:O	1.91	0.69
1:A:242:LEU:O	1:A:262:ILE:HB	1.92	0.69
2:B:85:THR:O	2:B:87:TYR:N	2.26	0.69
1:C:174:MET:SD	1:C:241:LEU:HD13	2.33	0.69
1:C:241:LEU:HD11	1:C:263:LEU:CD2	2.16	0.69
1:C:360:LEU:HD12	1:C:405:LEU:HD22	1.71	0.69
1:E:377:PRO:HB3	1:E:428:GLU:HG3	1.73	0.69
1:E:405:LEU:HB3	1:E:411:VAL:CG1	2.22	0.69
2:F:44:LEU:HB3	2:F:48:MET:CB	2.23	0.69
1:G:235:LYS:CE	1:G:238:GLU:HG3	2.21	0.69
1:I:242:LEU:O	1:I:262:ILE:HB	1.92	0.69
1:M:174:MET:SD	1:M:241:LEU:HD13	2.33	0.69
1:M:200:LEU:HD21	1:M:207:TRP:CD1	2.27	0.69
1:M:254:ASN:O	1:M:257:ASN:ND2	2.25	0.69
1:M:327:ILE:HG21	1:M:341:TRP:HE3	1.58	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Q:149:ILE:HG21	1:Q:283:ILE:HG21	1.74	0.69
2:R:85:THR:O	2:R:87:TYR:N	2.26	0.69
1:S:174:MET:SD	1:S:241:LEU:HD13	2.33	0.69
1:U:39:ILE:CG1	1:U:40:LEU:HD23	2.13	0.69
1:U:405:LEU:HB3	1:U:411:VAL:CG1	2.22	0.69
1:W:174:MET:SD	1:W:241:LEU:HD13	2.33	0.69
1:W:492:LEU:HD13	1:W:561:LEU:HG	1.74	0.69
1:Y:172:CYS:HG	1:Y:176:PHE:HZ	0.80	0.69
1:Y:338:TRP:HA	1:Y:338:TRP:CE3	2.26	0.69
1:Y:352:ILE:HD12	1:Y:352:ILE:N	2.08	0.69
1:Y:492:LEU:HD13	1:Y:561:LEU:HG	1.74	0.69
2:Z:81:GLN:HE21	2:Z:81:GLN:CA	2.04	0.69
1:a:178:ILE:HG22	1:a:241:LEU:O	1.91	0.69
1:a:186:CYS:HA	1:a:191:THR:CB	2.22	0.69
1:a:327:ILE:HG21	1:a:341:TRP:HE3	1.58	0.69
1:c:195:MET:CE	1:c:198:LYS:CE	2.66	0.69
1:e:352:ILE:HD12	1:e:352:ILE:N	2.08	0.69
1:A:200:LEU:HD21	1:A:207:TRP:CD1	2.27	0.68
1:C:200:LEU:HD21	1:C:207:TRP:CD1	2.27	0.68
1:C:492:LEU:HD13	1:C:561:LEU:HG	1.74	0.68
1:G:15:ILE:CD1	1:G:95:GLU:HB3	2.18	0.68
1:G:109:GLN:NE2	1:G:176:PHE:O	2.26	0.68
1:G:174:MET:SD	1:G:241:LEU:HD13	2.33	0.68
1:G:200:LEU:HD13	1:G:224:ILE:HD11	1.74	0.68
1:I:279:THR:HG23	1:I:280:THR:CG2	2.22	0.68
2:J:85:THR:O	2:J:87:TYR:N	2.26	0.68
1:K:109:GLN:NE2	1:K:176:PHE:O	2.26	0.68
1:K:129:GLN:CB	1:K:130:PRO:HD3	2.19	0.68
1:K:352:ILE:HD12	1:K:352:ILE:N	2.08	0.68
1:O:242:LEU:CD2	1:O:262:ILE:CG2	2.70	0.68
1:O:327:ILE:HG21	1:O:341:TRP:HE3	1.58	0.68
2:R:17:HIS:CE1	2:R:106:LEU:HA	2.25	0.68
1:S:109:GLN:NE2	1:S:176:PHE:O	2.26	0.68
1:S:318:THR:OG1	1:S:341:TRP:HH2	1.75	0.68
1:S:360:LEU:HD12	1:S:365:TYR:HB3	1.72	0.68
1:S:369:PHE:CZ	1:S:410:LEU:CD2	2.76	0.68
1:U:422:ILE:HG22	1:U:423:PRO:CD	1.77	0.68
2:V:44:LEU:HB3	2:V:48:MET:CB	2.23	0.68
1:W:369:PHE:CZ	1:W:410:LEU:CD2	2.76	0.68
1:c:254:ASN:O	1:c:257:ASN:ND2	2.25	0.68
1:c:369:PHE:CZ	1:c:410:LEU:CD2	2.76	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:e:192:VAL:CB	1:e:221:ILE:HD12	2.21	0.68
2:f:85:THR:O	2:f:87:TYR:N	2.26	0.68
1:A:279:THR:HG23	1:A:280:THR:CG2	2.22	0.68
1:C:369:PHE:CZ	1:C:410:LEU:CD2	2.76	0.68
1:E:174:MET:SD	1:E:241:LEU:HD13	2.33	0.68
2:F:85:THR:O	2:F:87:TYR:N	2.26	0.68
1:G:446:HIS:O	1:G:450:PRO:HD2	1.91	0.68
1:K:377:PRO:HB3	1:K:428:GLU:HG3	1.73	0.68
2:L:85:THR:O	2:L:87:TYR:N	2.26	0.68
1:M:195:MET:CE	1:M:198:LYS:CE	2.66	0.68
1:M:410:LEU:CD2	1:M:427:LEU:HA	2.23	0.68
1:O:178:ILE:HG22	1:O:241:LEU:O	1.91	0.68
1:Q:172:CYS:HG	1:Q:176:PHE:HZ	0.80	0.68
1:Q:410:LEU:CD2	1:Q:427:LEU:HA	2.23	0.68
2:R:81:GLN:HE21	2:R:81:GLN:CA	2.04	0.68
1:S:15:ILE:HG23	1:S:95:GLU:HB3	1.74	0.68
1:S:200:LEU:HD13	1:S:224:ILE:HD11	1.74	0.68
1:S:405:LEU:HB3	1:S:411:VAL:CG1	2.22	0.68
1:U:174:MET:SD	1:U:241:LEU:HD13	2.33	0.68
2:X:81:GLN:HE21	2:X:81:GLN:CA	2.04	0.68
1:Y:410:LEU:CD2	1:Y:427:LEU:HA	2.23	0.68
1:a:242:LEU:CD2	1:a:262:ILE:CG2	2.70	0.68
1:c:200:LEU:HD21	1:c:207:TRP:CD1	2.27	0.68
1:c:410:LEU:CD2	1:c:427:LEU:HA	2.23	0.68
1:e:109:GLN:NE2	1:e:176:PHE:O	2.26	0.68
1:e:129:GLN:CB	1:e:130:PRO:HD3	2.19	0.68
1:A:109:GLN:NE2	1:A:176:PHE:O	2.26	0.68
2:B:44:LEU:HB3	2:B:48:MET:CB	2.23	0.68
2:B:82:ARG:HG3	2:B:82:ARG:NH1	2.00	0.68
1:E:183:LEU:HD23	1:E:186:CYS:SG	2.31	0.68
1:E:352:ILE:HD12	1:E:352:ILE:N	2.08	0.68
1:G:15:ILE:HG23	1:G:95:GLU:HB3	1.74	0.68
1:G:24:VAL:HG22	1:G:58:THR:CG2	2.07	0.68
1:G:242:LEU:O	1:G:262:ILE:HB	1.92	0.68
1:G:318:THR:OG1	1:G:341:TRP:HH2	1.75	0.68
1:G:327:ILE:HG21	1:G:341:TRP:HE3	1.58	0.68
1:G:369:PHE:CZ	1:G:410:LEU:CD2	2.76	0.68
1:G:369:PHE:CE1	1:G:411:VAL:CG2	2.77	0.68
1:G:405:LEU:HB3	1:G:411:VAL:CG1	2.22	0.68
1:I:200:LEU:HD21	1:I:207:TRP:CD1	2.27	0.68
2:J:44:LEU:HB3	2:J:48:MET:CB	2.23	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:192:VAL:CB	1:K:221:ILE:HD12	2.21	0.68
1:K:492:LEU:HD13	1:K:561:LEU:HG	1.74	0.68
1:O:104:ARG:C	1:O:107:ILE:HG22	2.18	0.68
1:O:318:THR:OG1	1:O:341:TRP:HH2	1.75	0.68
2:P:44:LEU:HB3	2:P:48:MET:CB	2.23	0.68
1:Q:254:ASN:O	1:Q:257:ASN:ND2	2.25	0.68
1:Q:369:PHE:CE1	1:Q:411:VAL:CG2	2.77	0.68
1:S:120:PHE:HE1	1:S:124:ASN:CB	2.04	0.68
1:S:242:LEU:O	1:S:262:ILE:HB	1.92	0.68
1:U:183:LEU:HD23	1:U:186:CYS:SG	2.31	0.68
2:V:81:GLN:HE21	2:V:81:GLN:CA	2.04	0.68
2:V:85:THR:O	2:V:87:TYR:N	2.26	0.68
1:W:200:LEU:HD21	1:W:207:TRP:CD1	2.27	0.68
1:Y:369:PHE:CE1	1:Y:411:VAL:CG2	2.77	0.68
2:b:44:LEU:HB3	2:b:48:MET:CB	2.23	0.68
2:d:82:ARG:HG3	2:d:82:ARG:NH1	2.00	0.68
1:e:174:MET:SD	1:e:241:LEU:HD13	2.33	0.68
1:e:231:LEU:HD23	1:e:237:TYR:CE2	2.27	0.68
1:e:360:LEU:HD12	1:e:365:TYR:HB3	1.72	0.68
1:e:492:LEU:HD13	1:e:561:LEU:HG	1.74	0.68
1:C:183:LEU:CD2	1:C:186:CYS:HG	1.91	0.68
1:C:410:LEU:CD2	1:C:427:LEU:HA	2.23	0.68
2:D:81:GLN:HE21	2:D:81:GLN:CA	2.04	0.68
1:E:237:TYR:C	1:E:239:ASN:N	2.50	0.68
1:G:120:PHE:HE1	1:G:124:ASN:CB	2.04	0.68
1:G:360:LEU:HD12	1:G:365:TYR:HB3	1.72	0.68
1:I:109:GLN:NE2	1:I:176:PHE:O	2.26	0.68
1:K:174:MET:SD	1:K:241:LEU:HD13	2.33	0.68
1:K:231:LEU:HD23	1:K:237:TYR:CE2	2.27	0.68
1:M:109:GLN:NE2	1:M:176:PHE:O	2.26	0.68
1:M:149:ILE:HG21	1:M:283:ILE:HG21	1.74	0.68
1:O:109:GLN:NE2	1:O:176:PHE:O	2.26	0.68
1:O:183:LEU:HD23	1:O:186:CYS:SG	2.31	0.68
1:O:410:LEU:CB	1:O:426:TYR:CD1	2.61	0.68
1:S:39:ILE:CG1	1:S:40:LEU:HD23	2.14	0.68
1:S:369:PHE:CE1	1:S:411:VAL:CG2	2.77	0.68
1:S:446:HIS:O	1:S:450:PRO:HD2	1.91	0.68
2:T:85:THR:O	2:T:87:TYR:N	2.26	0.68
1:U:186:CYS:HA	1:U:191:THR:CB	2.22	0.68
1:U:237:TYR:C	1:U:239:ASN:N	2.50	0.68
1:U:241:LEU:HD11	1:U:263:LEU:CD2	2.16	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:U:360:LEU:HD12	1:U:365:TYR:HB3	1.72	0.68
1:W:410:LEU:CD2	1:W:427:LEU:HA	2.23	0.68
1:Y:254:ASN:O	1:Y:257:ASN:ND2	2.25	0.68
1:a:104:ARG:C	1:a:107:ILE:HG22	2.18	0.68
1:a:109:GLN:NE2	1:a:176:PHE:O	2.26	0.68
1:a:183:LEU:HD23	1:a:186:CYS:SG	2.31	0.68
1:a:410:LEU:CB	1:a:426:TYR:CD1	2.61	0.68
1:e:377:PRO:HB3	1:e:428:GLU:HG3	1.73	0.68
2:f:44:LEU:HB3	2:f:48:MET:CB	2.23	0.68
1:C:86:LYS:CD	1:C:89:MET:HE1	2.24	0.68
1:C:369:PHE:CE1	1:C:411:VAL:CG2	2.77	0.68
1:C:405:LEU:HB3	1:C:411:VAL:CG1	2.22	0.68
1:C:1091:UNK:CB	1:C:1103:UNK:HA	2.24	0.68
1:E:186:CYS:HA	1:E:191:THR:CB	2.22	0.68
1:E:241:LEU:HD11	1:E:263:LEU:CD2	2.16	0.68
1:E:410:LEU:CD2	1:E:427:LEU:HA	2.23	0.68
1:E:1091:UNK:CB	1:E:1103:UNK:HA	2.24	0.68
2:F:81:GLN:HE21	2:F:81:GLN:CA	2.04	0.68
1:G:410:LEU:CD2	1:G:427:LEU:HA	2.23	0.68
1:G:422:ILE:CG2	1:G:423:PRO:HD3	2.23	0.68
2:J:82:ARG:HG3	2:J:82:ARG:NH1	2.00	0.68
2:L:44:LEU:HB3	2:L:48:MET:CB	2.23	0.68
2:N:82:ARG:HG3	2:N:82:ARG:NH1	2.00	0.68
1:O:340:ASN:CB	1:O:344:VAL:CB	2.72	0.68
1:S:327:ILE:HG21	1:S:341:TRP:HE3	1.58	0.68
1:U:352:ILE:HD12	1:U:352:ILE:N	2.08	0.68
1:U:410:LEU:CD2	1:U:427:LEU:HA	2.23	0.68
1:U:1091:UNK:CB	1:U:1103:UNK:HA	2.24	0.68
1:W:86:LYS:CD	1:W:89:MET:HE1	2.24	0.68
1:W:369:PHE:CE1	1:W:411:VAL:CG2	2.77	0.68
1:W:405:LEU:HB3	1:W:411:VAL:CG1	2.22	0.68
1:a:318:THR:OG1	1:a:341:TRP:HH2	1.75	0.68
1:a:340:ASN:CB	1:a:344:VAL:CB	2.72	0.68
1:c:19:PHE:HZ	1:c:92:ILE:CG1	1.90	0.68
1:A:19:PHE:HZ	1:A:92:ILE:CG1	1.90	0.68
1:C:559:THR:HA	1:C:562:LEU:HD23	1.76	0.68
1:E:86:LYS:CD	1:E:89:MET:HE1	2.24	0.68
1:E:360:LEU:HD12	1:E:365:TYR:HB3	1.72	0.68
2:H:85:THR:O	2:H:87:TYR:N	2.26	0.68
1:I:174:MET:SD	1:I:241:LEU:HD13	2.33	0.68
1:I:369:PHE:CE1	1:I:411:VAL:CG2	2.77	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:360:LEU:HD12	1:K:365:TYR:HB3	1.72	0.68
1:M:86:LYS:CD	1:M:89:MET:HE1	2.24	0.68
2:N:85:THR:O	2:N:87:TYR:N	2.26	0.68
1:O:86:LYS:CD	1:O:89:MET:HE1	2.24	0.68
1:O:559:THR:HA	1:O:562:LEU:HD23	1.76	0.68
1:Q:340:ASN:CB	1:Q:344:VAL:CB	2.72	0.68
1:Q:1091:UNK:CB	1:Q:1103:UNK:HA	2.24	0.68
1:S:410:LEU:CD2	1:S:427:LEU:HA	2.23	0.68
1:S:422:ILE:CG2	1:S:423:PRO:HD3	2.23	0.68
2:T:81:GLN:HE21	2:T:81:GLN:CA	2.04	0.68
1:U:86:LYS:CD	1:U:89:MET:HE1	2.24	0.68
1:W:559:THR:HA	1:W:562:LEU:HD23	1.76	0.68
1:W:1091:UNK:CB	1:W:1103:UNK:HA	2.24	0.68
1:Y:340:ASN:CB	1:Y:344:VAL:CB	2.72	0.68
1:Y:1091:UNK:CB	1:Y:1103:UNK:HA	2.24	0.68
1:c:86:LYS:CD	1:c:89:MET:HE1	2.24	0.68
1:c:109:GLN:NE2	1:c:176:PHE:O	2.26	0.68
1:c:149:ILE:HG21	1:c:283:ILE:HG21	1.74	0.68
2:d:85:THR:O	2:d:87:TYR:N	2.26	0.68
1:A:174:MET:SD	1:A:241:LEU:HD13	2.33	0.68
1:A:369:PHE:CE1	1:A:411:VAL:CG2	2.77	0.68
1:E:492:LEU:HD13	1:E:561:LEU:HG	1.74	0.68
1:K:40:LEU:HD23	1:K:40:LEU:N	2.07	0.68
1:M:369:PHE:CE1	1:M:411:VAL:CG2	2.77	0.68
1:M:1091:UNK:CB	1:M:1103:UNK:HA	2.24	0.68
1:O:102:MET:CE	1:O:172:CYS:SG	2.75	0.68
1:Q:86:LYS:CD	1:Q:89:MET:HE1	2.24	0.68
1:Q:463:LEU:HB2	1:Q:467:PHE:HE1	1.56	0.68
1:S:86:LYS:CD	1:S:89:MET:HE1	2.24	0.68
1:S:149:ILE:HG21	1:S:283:ILE:HG21	1.74	0.68
1:S:171:GLN:HG2	1:S:176:PHE:CD1	2.26	0.68
1:S:422:ILE:N	1:S:422:ILE:HD13	2.09	0.68
1:U:369:PHE:CE1	1:U:411:VAL:CG2	2.77	0.68
1:U:492:LEU:HD13	1:U:561:LEU:HG	1.74	0.68
1:W:39:ILE:HG12	1:W:40:LEU:HD21	1.72	0.68
1:Y:86:LYS:CD	1:Y:89:MET:HE1	2.24	0.68
1:a:86:LYS:CD	1:a:89:MET:HE1	2.24	0.68
1:a:559:THR:HA	1:a:562:LEU:HD23	1.76	0.68
1:c:369:PHE:CE1	1:c:411:VAL:CG2	2.77	0.68
1:c:1091:UNK:CB	1:c:1103:UNK:HA	2.24	0.68
1:e:40:LEU:HD23	1:e:40:LEU:N	2.07	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:e:86:LYS:CD	1:e:89:MET:HE1	2.24	0.68
1:A:360:LEU:HD12	1:A:365:TYR:HB3	1.72	0.68
1:A:1091:UNK:CB	1:A:1103:UNK:HA	2.24	0.68
1:C:340:ASN:CB	1:C:344:VAL:CB	2.72	0.68
1:E:369:PHE:CE1	1:E:411:VAL:CG2	2.77	0.68
1:G:39:ILE:CG1	1:G:40:LEU:HD23	2.14	0.68
1:G:86:LYS:CD	1:G:89:MET:HE1	2.24	0.68
1:G:104:ARG:C	1:G:107:ILE:HG22	2.18	0.68
1:G:410:LEU:CD2	1:G:427:LEU:N	2.57	0.68
1:G:422:ILE:N	1:G:422:ILE:HD13	2.09	0.68
1:I:15:ILE:HG23	1:I:95:GLU:HB3	1.74	0.68
1:K:86:LYS:CD	1:K:89:MET:HE1	2.24	0.68
2:N:44:LEU:HB3	2:N:48:MET:CB	2.23	0.68
1:O:410:LEU:HD13	1:O:423:PRO:N	2.09	0.68
1:S:104:ARG:C	1:S:107:ILE:HG22	2.18	0.68
1:S:410:LEU:CD2	1:S:427:LEU:N	2.57	0.68
1:W:340:ASN:CB	1:W:344:VAL:CB	2.72	0.68
1:W:360:LEU:HD12	1:W:365:TYR:HB3	1.72	0.68
1:a:39:ILE:O	1:a:40:LEU:HD23	1.94	0.68
1:a:410:LEU:HD13	1:a:423:PRO:N	2.09	0.68
1:a:410:LEU:CD2	1:a:427:LEU:HA	2.23	0.68
2:b:85:THR:O	2:b:87:TYR:N	2.26	0.68
1:c:216:ASN:CB	1:c:219:LEU:H	2.07	0.68
1:A:15:ILE:HG23	1:A:95:GLU:HB3	1.74	0.68
1:A:86:LYS:CD	1:A:89:MET:HE1	2.24	0.68
1:A:410:LEU:CD2	1:A:427:LEU:HA	2.23	0.68
1:C:212:ASP:HB2	1:C:220:ARG:NH1	2.09	0.68
1:C:518:LEU:HD11	1:C:646:UNK:C	2.24	0.68
1:C:557:LYS:CA	1:C:557:LYS:HE3	2.24	0.68
1:E:557:LYS:CA	1:E:557:LYS:HE3	2.24	0.68
1:G:149:ILE:HG21	1:G:283:ILE:HG21	1.74	0.68
1:G:1091:UNK:CB	1:G:1103:UNK:HA	2.24	0.68
2:H:81:GLN:HE21	2:H:81:GLN:CA	2.04	0.68
1:I:86:LYS:CD	1:I:89:MET:HE1	2.24	0.68
1:I:195:MET:HE1	1:I:198:LYS:HE2	1.70	0.68
1:I:1091:UNK:CB	1:I:1103:UNK:HA	2.24	0.68
1:K:101:MET:O	1:K:105:MET:HB2	1.94	0.68
1:M:492:LEU:HD13	1:M:561:LEU:HG	1.74	0.68
1:O:39:ILE:O	1:O:40:LEU:HD23	1.94	0.68
1:O:410:LEU:CD2	1:O:427:LEU:N	2.57	0.68
2:P:85:THR:O	2:P:87:TYR:N	2.26	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:S:24:VAL:HG22	1:S:58:THR:CG2	2.07	0.68
1:U:242:LEU:HD23	1:U:262:ILE:HB	1.76	0.68
1:U:557:LYS:CA	1:U:557:LYS:HE3	2.24	0.68
1:W:109:GLN:NE2	1:W:176:PHE:O	2.26	0.68
1:W:212:ASP:HB2	1:W:220:ARG:NH1	2.09	0.68
1:W:279:THR:C	1:W:280:THR:HG22	2.10	0.68
1:W:557:LYS:CA	1:W:557:LYS:HE3	2.24	0.68
1:Y:492:LEU:HG	1:Y:573:ILE:HG23	1.76	0.68
1:a:149:ILE:HG21	1:a:283:ILE:HG21	1.74	0.68
1:a:410:LEU:CD2	1:a:427:LEU:N	2.57	0.68
1:e:101:MET:O	1:e:105:MET:HB2	1.94	0.68
1:A:242:LEU:HD23	1:A:262:ILE:HB	1.76	0.68
1:A:283:ILE:HG22	1:A:283:ILE:O	1.94	0.68
1:A:410:LEU:CD2	1:A:427:LEU:N	2.57	0.68
1:C:109:GLN:NE2	1:C:176:PHE:O	2.26	0.68
1:E:242:LEU:HD23	1:E:262:ILE:HB	1.76	0.68
1:E:318:THR:OG1	1:E:341:TRP:HH2	1.75	0.68
1:E:340:ASN:CB	1:E:344:VAL:CB	2.72	0.68
1:E:492:LEU:HG	1:E:573:ILE:HG23	1.76	0.68
1:G:171:GLN:HG2	1:G:176:PHE:CD1	2.26	0.68
1:I:39:ILE:HG12	1:I:40:LEU:HD21	1.73	0.68
1:I:242:LEU:HD23	1:I:262:ILE:HB	1.76	0.68
1:I:410:LEU:CD2	1:I:427:LEU:N	2.57	0.68
1:I:410:LEU:CD2	1:I:427:LEU:HA	2.23	0.68
1:K:410:LEU:HD13	1:K:423:PRO:N	2.09	0.68
1:K:1091:UNK:CB	1:K:1103:UNK:HA	2.24	0.68
1:M:19:PHE:HZ	1:M:92:ILE:CG1	1.90	0.68
1:M:216:ASN:CB	1:M:219:LEU:H	2.07	0.68
1:M:295:ASP:O	1:M:298:LYS:CG	2.39	0.68
1:M:340:ASN:CB	1:M:344:VAL:CB	2.72	0.68
1:M:422:ILE:N	1:M:422:ILE:HD13	2.09	0.68
1:O:410:LEU:CD2	1:O:427:LEU:HA	2.23	0.68
1:Q:492:LEU:HG	1:Q:573:ILE:HG23	1.76	0.68
1:Q:557:LYS:CA	1:Q:557:LYS:HE3	2.24	0.68
1:S:1091:UNK:CB	1:S:1103:UNK:HA	2.24	0.68
1:U:15:ILE:HG23	1:U:95:GLU:HB3	1.74	0.68
1:U:492:LEU:HG	1:U:573:ILE:HG23	1.76	0.68
1:W:518:LEU:HD11	1:W:646:UNK:C	2.24	0.68
1:Y:557:LYS:CA	1:Y:557:LYS:HE3	2.24	0.68
1:c:340:ASN:CB	1:c:344:VAL:CB	2.72	0.68
1:c:422:ILE:N	1:c:422:ILE:HD13	2.09	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:c:492:LEU:HD13	1:c:561:LEU:HG	1.74	0.68
2:d:44:LEU:HB3	2:d:48:MET:CB	2.23	0.68
1:e:283:ILE:HG22	1:e:283:ILE:O	1.94	0.68
1:A:405:LEU:HB3	1:A:411:VAL:CG1	2.22	0.67
1:C:39:ILE:HG12	1:C:40:LEU:HD21	1.72	0.67
1:C:360:LEU:HD12	1:C:365:TYR:HB3	1.72	0.67
1:E:15:ILE:HG23	1:E:95:GLU:HB3	1.74	0.67
1:E:109:GLN:NE2	1:E:176:PHE:O	2.26	0.67
1:G:340:ASN:CB	1:G:344:VAL:CB	2.72	0.67
1:I:360:LEU:HD12	1:I:365:TYR:HB3	1.72	0.67
1:K:104:ARG:C	1:K:107:ILE:HG22	2.18	0.67
1:K:237:TYR:C	1:K:239:ASN:N	2.50	0.67
1:M:104:ARG:C	1:M:107:ILE:HG22	2.18	0.67
1:O:369:PHE:CE1	1:O:411:VAL:CG2	2.77	0.67
1:O:557:LYS:CA	1:O:557:LYS:HE3	2.24	0.67
1:S:557:LYS:CA	1:S:557:LYS:HE3	2.24	0.67
1:U:340:ASN:CB	1:U:344:VAL:CB	2.72	0.67
1:Y:463:LEU:HB2	1:Y:467:PHE:HE1	1.56	0.67
1:a:557:LYS:CA	1:a:557:LYS:HE3	2.24	0.67
1:c:40:LEU:HD23	1:c:40:LEU:N	2.07	0.67
1:e:104:ARG:C	1:e:107:ILE:HG22	2.18	0.67
1:e:237:TYR:C	1:e:239:ASN:N	2.50	0.67
1:e:410:LEU:HD13	1:e:423:PRO:N	2.09	0.67
1:e:1091:UNK:CB	1:e:1103:UNK:HA	2.24	0.67
1:A:195:MET:HE1	1:A:198:LYS:HE2	1.70	0.67
1:E:410:LEU:CD2	1:E:427:LEU:N	2.57	0.67
1:E:422:ILE:N	1:E:422:ILE:HD13	2.09	0.67
1:G:178:ILE:HG21	1:G:241:LEU:CD2	2.02	0.67
1:G:557:LYS:CA	1:G:557:LYS:HE3	2.24	0.67
1:I:19:PHE:HZ	1:I:92:ILE:CG1	1.90	0.67
1:I:101:MET:O	1:I:105:MET:HB2	1.94	0.67
1:I:283:ILE:HG22	1:I:283:ILE:O	1.94	0.67
1:I:405:LEU:HB3	1:I:411:VAL:CG1	2.22	0.67
1:K:120:PHE:HE1	1:K:124:ASN:CB	2.04	0.67
1:K:283:ILE:HG22	1:K:283:ILE:O	1.94	0.67
1:K:369:PHE:CE1	1:K:411:VAL:CG2	2.77	0.67
1:M:40:LEU:HD23	1:M:40:LEU:N	2.07	0.67
1:M:172:CYS:HG	1:M:176:PHE:HZ	0.82	0.67
1:M:410:LEU:CD2	1:M:427:LEU:N	2.57	0.67
1:M:518:LEU:HD11	1:M:646:UNK:C	2.24	0.67
1:O:149:ILE:HG21	1:O:283:ILE:HG21	1.74	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:O:1091:UNK:CB	1:O:1103:UNK:HA	2.24	0.67
1:S:340:ASN:CB	1:S:344:VAL:CB	2.72	0.67
1:U:24:VAL:HG22	1:U:58:THR:CG2	2.07	0.67
1:U:109:GLN:NE2	1:U:176:PHE:O	2.26	0.67
1:U:410:LEU:CD2	1:U:427:LEU:N	2.57	0.67
1:W:410:LEU:CD2	1:W:427:LEU:N	2.57	0.67
1:a:274:PHE:CB	1:a:275:LEU:HD13	2.25	0.67
1:a:369:PHE:CE1	1:a:411:VAL:CG2	2.77	0.67
1:c:104:ARG:C	1:c:107:ILE:HG22	2.18	0.67
1:c:410:LEU:CD2	1:c:427:LEU:N	2.57	0.67
1:c:559:THR:HA	1:c:562:LEU:HD23	1.76	0.67
1:A:101:MET:O	1:A:105:MET:HB2	1.94	0.67
1:C:279:THR:C	1:C:280:THR:HG22	2.10	0.67
1:C:410:LEU:CD2	1:C:427:LEU:N	2.57	0.67
1:G:266:THR:HG21	1:G:271:VAL:HG21	1.77	0.67
1:K:410:LEU:CD2	1:K:427:LEU:N	2.57	0.67
1:M:492:LEU:HG	1:M:573:ILE:HG23	1.76	0.67
1:M:559:THR:HA	1:M:562:LEU:HD23	1.76	0.67
1:O:274:PHE:CB	1:O:275:LEU:HD13	2.25	0.67
1:S:212:ASP:HB2	1:S:220:ARG:NH1	2.09	0.67
2:T:44:LEU:HB3	2:T:48:MET:CB	2.23	0.67
1:U:318:THR:OG1	1:U:341:TRP:HH2	1.75	0.67
1:U:422:ILE:N	1:U:422:ILE:HD13	2.09	0.67
1:a:266:THR:HG21	1:a:271:VAL:HG21	1.77	0.67
1:a:360:LEU:HD12	1:a:365:TYR:HB3	1.72	0.67
1:a:422:ILE:HD13	1:a:422:ILE:N	2.09	0.67
1:c:101:MET:O	1:c:105:MET:HB2	1.94	0.67
1:c:295:ASP:O	1:c:298:LYS:CG	2.39	0.67
1:c:492:LEU:HG	1:c:573:ILE:HG23	1.76	0.67
1:c:518:LEU:HD11	1:c:646:UNK:C	2.24	0.67
1:e:369:PHE:CE1	1:e:411:VAL:CG2	2.77	0.67
1:e:410:LEU:CD2	1:e:427:LEU:N	2.57	0.67
1:A:39:ILE:HG12	1:A:40:LEU:HD21	1.73	0.67
1:E:24:VAL:HG22	1:E:58:THR:CG2	2.07	0.67
1:G:212:ASP:HB2	1:G:220:ARG:NH1	2.09	0.67
1:I:340:ASN:CB	1:I:344:VAL:CB	2.72	0.67
1:K:340:ASN:CB	1:K:344:VAL:CB	2.72	0.67
1:M:92:ILE:O	1:M:95:GLU:N	2.28	0.67
1:M:101:MET:O	1:M:105:MET:HB2	1.94	0.67
1:O:266:THR:HG21	1:O:271:VAL:HG21	1.77	0.67
1:O:360:LEU:HD12	1:O:365:TYR:HB3	1.72	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:O:422:ILE:N	1:O:422:ILE:HD13	2.09	0.67
1:S:266:THR:HG21	1:S:271:VAL:HG21	1.77	0.67
1:Y:109:GLN:NE2	1:Y:176:PHE:O	2.26	0.67
2:Z:44:LEU:HB3	2:Z:48:MET:CB	2.23	0.67
1:a:1091:UNK:CB	1:a:1103:UNK:HA	2.24	0.67
1:c:92:ILE:O	1:c:95:GLU:N	2.28	0.67
1:c:283:ILE:HG22	1:c:283:ILE:O	1.94	0.67
1:A:340:ASN:CB	1:A:344:VAL:CB	2.72	0.67
1:A:492:LEU:HG	1:A:573:ILE:HG23	1.76	0.67
1:C:237:TYR:C	1:C:239:ASN:N	2.50	0.67
1:C:274:PHE:CB	1:C:275:LEU:HD13	2.25	0.67
1:C:460:PRO:HG3	1:C:462:TYR:CE2	2.29	0.67
1:E:149:ILE:HG23	1:E:283:ILE:HG22	0.68	0.67
1:E:266:THR:HG21	1:E:271:VAL:HG21	1.77	0.67
1:G:453:PHE:CD2	1:G:461:PRO:HG2	2.24	0.67
2:H:44:LEU:HB3	2:H:48:MET:CB	2.23	0.67
1:I:492:LEU:HG	1:I:573:ILE:HG23	1.76	0.67
1:M:266:THR:HG21	1:M:271:VAL:HG21	1.77	0.67
1:M:283:ILE:HG22	1:M:283:ILE:O	1.94	0.67
1:O:460:PRO:HG3	1:O:462:TYR:CE2	2.29	0.67
1:Q:109:GLN:NE2	1:Q:176:PHE:O	2.26	0.67
1:Q:405:LEU:HB3	1:Q:411:VAL:CG1	2.22	0.67
1:S:283:ILE:HG22	1:S:283:ILE:O	1.94	0.67
1:U:149:ILE:HG23	1:U:283:ILE:HG22	0.68	0.67
1:W:237:TYR:C	1:W:239:ASN:N	2.50	0.67
1:Y:405:LEU:HB3	1:Y:411:VAL:CG1	2.22	0.67
1:a:423:PRO:HG2	1:a:426:TYR:CE1	2.30	0.67
1:e:340:ASN:CB	1:e:344:VAL:CB	2.72	0.67
1:A:449:ILE:HG23	1:A:450:PRO:HD3	1.77	0.67
1:G:449:ILE:HG23	1:G:450:PRO:HD3	1.77	0.67
1:I:422:ILE:CG2	1:I:423:PRO:HD3	2.23	0.67
1:I:449:ILE:HG23	1:I:450:PRO:HD3	1.77	0.67
1:O:40:LEU:HD23	1:O:40:LEU:N	2.07	0.67
1:O:423:PRO:HG2	1:O:426:TYR:CE1	2.30	0.67
1:Q:410:LEU:CB	1:Q:426:TYR:CD1	2.61	0.67
2:R:44:LEU:HB3	2:R:48:MET:CB	2.23	0.67
1:S:449:ILE:HG23	1:S:450:PRO:HD3	1.77	0.67
1:U:101:MET:O	1:U:105:MET:HB2	1.94	0.67
1:U:266:THR:HG21	1:U:271:VAL:HG21	1.77	0.67
1:W:274:PHE:CB	1:W:275:LEU:HD13	2.25	0.67
1:W:460:PRO:HG3	1:W:462:TYR:CE2	2.29	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Y:420:ILE:CG2	1:Y:422:ILE:HD11	2.25	0.67
1:a:460:PRO:HG3	1:a:462:TYR:CE2	2.29	0.67
1:c:266:THR:HG21	1:c:271:VAL:HG21	1.77	0.67
1:c:460:PRO:HG3	1:c:462:TYR:CE2	2.30	0.67
1:A:12:TYR:CE1	1:A:96:GLN:CB	2.78	0.67
1:A:266:THR:HG21	1:A:271:VAL:HG21	1.77	0.67
1:C:203:ILE:HG21	1:C:231:LEU:HD22	1.76	0.67
1:E:101:MET:O	1:E:105:MET:HB2	1.94	0.67
1:G:12:TYR:CE1	1:G:96:GLN:CB	2.78	0.67
1:G:283:ILE:HG22	1:G:283:ILE:O	1.94	0.67
1:I:12:TYR:CE1	1:I:96:GLN:CB	2.78	0.67
1:K:92:ILE:O	1:K:95:GLU:N	2.28	0.67
1:K:559:THR:HA	1:K:562:LEU:HD23	1.76	0.67
1:M:460:PRO:HG3	1:M:462:TYR:CE2	2.30	0.67
1:O:422:ILE:CG2	1:O:423:PRO:HD3	2.23	0.67
1:Q:12:TYR:CE1	1:Q:96:GLN:CB	2.78	0.67
1:Q:410:LEU:HD13	1:Q:423:PRO:N	2.09	0.67
1:Q:420:ILE:CG2	1:Q:422:ILE:HD11	2.25	0.67
1:Q:423:PRO:HG2	1:Q:426:TYR:CE1	2.30	0.67
1:S:12:TYR:CE1	1:S:96:GLN:CB	2.78	0.67
1:S:453:PHE:CD2	1:S:461:PRO:HG2	2.24	0.67
1:S:460:PRO:HG3	1:S:462:TYR:CE2	2.29	0.67
1:W:203:ILE:HG21	1:W:231:LEU:HD22	1.76	0.67
1:W:449:ILE:HG23	1:W:450:PRO:HD3	1.77	0.67
1:Y:12:TYR:CE1	1:Y:96:GLN:CB	2.78	0.67
1:Y:266:THR:HG21	1:Y:271:VAL:HG21	1.77	0.67
1:Y:410:LEU:CB	1:Y:426:TYR:CD1	2.61	0.67
1:a:40:LEU:HD23	1:a:40:LEU:N	2.07	0.67
1:a:420:ILE:CG2	1:a:422:ILE:HD11	2.25	0.67
1:e:195:MET:CE	1:e:198:LYS:CE	2.66	0.67
1:A:422:ILE:N	1:A:422:ILE:HD13	2.09	0.67
1:A:557:LYS:CA	1:A:557:LYS:HE3	2.24	0.67
1:G:360:LEU:CG	1:G:365:TYR:CB	2.48	0.67
1:G:460:PRO:HG3	1:G:462:TYR:CE2	2.29	0.67
1:G:559:THR:HA	1:G:562:LEU:HD23	1.76	0.67
1:I:266:THR:HG21	1:I:271:VAL:HG21	1.77	0.67
1:K:423:PRO:HG2	1:K:426:TYR:CE1	2.30	0.67
1:M:15:ILE:CG2	1:M:95:GLU:HB2	2.19	0.67
1:M:274:PHE:CB	1:M:275:LEU:HD13	2.25	0.67
1:M:420:ILE:CG2	1:M:422:ILE:HD11	2.25	0.67
1:O:120:PHE:HE1	1:O:124:ASN:CB	2.04	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:O:242:LEU:HD23	1:O:262:ILE:HB	1.76	0.67
1:O:420:ILE:CG2	1:O:422:ILE:HD11	2.25	0.67
1:Q:266:THR:HG21	1:Q:271:VAL:HG21	1.77	0.67
1:S:559:THR:HA	1:S:562:LEU:HD23	1.76	0.67
1:W:422:ILE:N	1:W:422:ILE:HD13	2.09	0.67
1:Y:203:ILE:HG21	1:Y:231:LEU:HD22	1.76	0.67
1:Y:360:LEU:HD12	1:Y:405:LEU:HD22	1.71	0.67
1:Y:410:LEU:HD13	1:Y:423:PRO:N	2.09	0.67
1:Y:423:PRO:HG2	1:Y:426:TYR:CE1	2.30	0.67
1:a:92:ILE:O	1:a:95:GLU:N	2.28	0.67
1:c:15:ILE:CG2	1:c:95:GLU:HB2	2.19	0.67
1:c:242:LEU:HD23	1:c:262:ILE:HB	1.76	0.67
1:c:420:ILE:CG2	1:c:422:ILE:HD11	2.25	0.67
1:e:92:ILE:O	1:e:95:GLU:N	2.28	0.67
1:A:422:ILE:CG2	1:A:423:PRO:HD3	2.23	0.67
1:C:422:ILE:HD13	1:C:422:ILE:N	2.09	0.67
1:C:449:ILE:HG23	1:C:450:PRO:HD3	1.77	0.67
1:E:12:TYR:CE1	1:E:96:GLN:CB	2.78	0.67
1:G:242:LEU:HD23	1:G:262:ILE:HB	1.76	0.67
1:I:422:ILE:N	1:I:422:ILE:HD13	2.09	0.67
1:I:557:LYS:CA	1:I:557:LYS:HE3	2.24	0.67
1:K:148:LEU:HD21	1:K:282:HIS:HD2	1.60	0.67
1:M:242:LEU:HD23	1:M:262:ILE:HB	1.76	0.67
1:M:557:LYS:CA	1:M:557:LYS:HE3	2.24	0.67
1:O:92:ILE:O	1:O:95:GLU:N	2.28	0.67
1:Q:148:LEU:HD21	1:Q:282:HIS:HD2	1.60	0.67
1:Q:203:ILE:HG21	1:Q:231:LEU:HD22	1.76	0.67
1:S:178:ILE:HG21	1:S:241:LEU:CD2	2.02	0.67
1:W:39:ILE:O	1:W:40:LEU:HD23	1.94	0.67
1:W:357:LEU:CG	1:W:430:LYS:HZ3	2.05	0.67
1:Y:148:LEU:HD21	1:Y:282:HIS:HD2	1.60	0.67
1:Y:449:ILE:HG23	1:Y:450:PRO:HD3	1.77	0.67
1:Y:460:PRO:HG3	1:Y:462:TYR:CE2	2.30	0.67
1:a:242:LEU:HD23	1:a:262:ILE:HB	1.76	0.67
1:c:274:PHE:CB	1:c:275:LEU:HD13	2.25	0.67
1:e:148:LEU:HD21	1:e:282:HIS:HD2	1.60	0.67
1:e:423:PRO:HG2	1:e:426:TYR:CE1	2.30	0.67
1:e:449:ILE:HG23	1:e:450:PRO:HD3	1.77	0.67
1:e:559:THR:HA	1:e:562:LEU:HD23	1.76	0.67
1:A:86:LYS:CD	1:A:89:MET:CE	2.73	0.67
1:A:290:MET:O	1:A:291:THR:C	2.38	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:105:LEU:HD11	2:L:105:LEU:HD11	1.77	0.67
1:C:39:ILE:O	1:C:40:LEU:HD23	1.94	0.67
1:E:212:ASP:HB2	1:E:220:ARG:NH1	2.09	0.67
1:E:274:PHE:CB	1:E:275:LEU:HD13	2.25	0.67
1:E:449:ILE:HG23	1:E:450:PRO:HD3	1.77	0.67
1:I:86:LYS:CD	1:I:89:MET:CE	2.73	0.67
1:I:290:MET:O	1:I:291:THR:C	2.38	0.67
2:J:105:LEU:HD11	2:f:105:LEU:HD11	1.77	0.67
1:K:266:THR:HG21	1:K:271:VAL:HG21	1.77	0.67
1:K:422:ILE:N	1:K:422:ILE:HD13	2.09	0.67
1:K:449:ILE:HG23	1:K:450:PRO:HD3	1.77	0.67
1:M:149:ILE:HG23	1:M:283:ILE:HG22	0.68	0.67
1:O:290:MET:O	1:O:291:THR:C	2.38	0.67
1:Q:242:LEU:HD23	1:Q:262:ILE:HB	1.76	0.67
1:Q:449:ILE:HG23	1:Q:450:PRO:HD3	1.77	0.67
1:U:12:TYR:CE1	1:U:96:GLN:CB	2.78	0.67
1:U:274:PHE:CB	1:U:275:LEU:HD13	2.25	0.67
1:U:460:PRO:HG3	1:U:462:TYR:CE2	2.30	0.67
1:Y:242:LEU:HD23	1:Y:262:ILE:HB	1.76	0.67
1:a:422:ILE:CG2	1:a:423:PRO:HD3	2.23	0.67
1:c:149:ILE:HG23	1:c:283:ILE:HG22	0.68	0.67
1:A:203:ILE:HG21	1:A:231:LEU:HD22	1.76	0.66
2:B:81:GLN:HE21	2:B:81:GLN:CA	2.04	0.66
1:C:12:TYR:CE1	1:C:96:GLN:CB	2.78	0.66
1:C:420:ILE:CG2	1:C:422:ILE:HD11	2.25	0.66
1:E:423:PRO:HG2	1:E:426:TYR:CE1	2.30	0.66
1:E:460:PRO:HG3	1:E:462:TYR:CE2	2.30	0.66
1:G:101:MET:O	1:G:105:MET:HB2	1.94	0.66
1:I:203:ILE:HG21	1:I:231:LEU:HD22	1.76	0.66
1:I:460:PRO:HG3	1:I:462:TYR:CE2	2.30	0.66
1:K:195:MET:CE	1:K:198:LYS:CE	2.66	0.66
1:K:410:LEU:CB	1:K:426:TYR:CD1	2.61	0.66
1:Q:101:MET:O	1:Q:105:MET:HB2	1.94	0.66
1:Q:460:PRO:HG3	1:Q:462:TYR:CE2	2.30	0.66
1:S:242:LEU:HD23	1:S:262:ILE:HB	1.76	0.66
1:U:423:PRO:HG2	1:U:426:TYR:CE1	2.30	0.66
1:U:449:ILE:HG23	1:U:450:PRO:HD3	1.77	0.66
1:Y:274:PHE:CB	1:Y:275:LEU:HD13	2.25	0.66
1:Y:559:THR:HA	1:Y:562:LEU:HD23	1.76	0.66
1:a:120:PHE:HE1	1:a:124:ASN:CB	2.04	0.66
1:a:192:VAL:CB	1:a:221:ILE:HD12	2.21	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:a:290:MET:O	1:a:291:THR:C	2.38	0.66
1:c:557:LYS:HE3	1:c:557:LYS:CA	2.24	0.66
1:e:266:THR:HG21	1:e:271:VAL:HG21	1.77	0.66
1:e:274:PHE:CB	1:e:275:LEU:HD13	2.25	0.66
1:A:460:PRO:HG3	1:A:462:TYR:CE2	2.30	0.66
1:C:266:THR:HG21	1:C:271:VAL:HG21	1.77	0.66
1:G:492:LEU:HG	1:G:573:ILE:HG23	1.77	0.66
1:K:274:PHE:CB	1:K:275:LEU:HD13	2.25	0.66
1:O:12:TYR:CE1	1:O:96:GLN:CB	2.78	0.66
1:O:449:ILE:HG23	1:O:450:PRO:HD3	1.77	0.66
1:Q:274:PHE:CB	1:Q:275:LEU:HD13	2.25	0.66
1:Q:301:LEU:HD12	1:Q:305:LEU:HB2	1.78	0.66
1:Q:410:LEU:CD2	1:Q:427:LEU:N	2.57	0.66
1:S:86:LYS:CD	1:S:89:MET:CE	2.73	0.66
1:S:101:MET:O	1:S:105:MET:HB2	1.94	0.66
1:U:212:ASP:HB2	1:U:220:ARG:NH1	2.09	0.66
1:W:12:TYR:CE1	1:W:96:GLN:CB	2.78	0.66
1:Y:101:MET:O	1:Y:105:MET:HB2	1.94	0.66
1:Y:301:LEU:HD12	1:Y:305:LEU:HB2	1.78	0.66
1:e:422:ILE:HD13	1:e:422:ILE:N	2.09	0.66
2:f:44:LEU:HB3	2:f:48:MET:HB3	1.78	0.66
1:C:242:LEU:HD23	1:C:262:ILE:HB	1.76	0.66
1:G:86:LYS:CD	1:G:89:MET:CE	2.73	0.66
1:G:183:LEU:HD23	1:G:186:CYS:SG	2.31	0.66
2:H:43:ILE:HG22	2:H:44:LEU:HG	1.78	0.66
1:K:460:PRO:HG3	1:K:462:TYR:CE2	2.29	0.66
2:L:44:LEU:HB3	2:L:48:MET:HB3	1.78	0.66
1:M:322:ARG:HH11	1:M:322:ARG:HG3	1.60	0.66
1:O:212:ASP:HB2	1:O:220:ARG:NH1	2.09	0.66
2:P:82:ARG:HG3	2:P:82:ARG:NH1	2.00	0.66
1:Q:290:MET:O	1:Q:291:THR:C	2.38	0.66
1:Q:360:LEU:HD12	1:Q:405:LEU:HD22	1.71	0.66
1:Q:559:THR:HA	1:Q:562:LEU:HD23	1.76	0.66
1:S:183:LEU:HD23	1:S:186:CYS:SG	2.31	0.66
2:T:43:ILE:HG22	2:T:44:LEU:HG	1.77	0.66
1:W:242:LEU:HB3	1:W:262:ILE:HG22	1.78	0.66
1:W:266:THR:HG21	1:W:271:VAL:HG21	1.77	0.66
1:W:420:ILE:CG2	1:W:422:ILE:HD11	2.25	0.66
1:Y:283:ILE:HG22	1:Y:283:ILE:O	1.94	0.66
1:Y:290:MET:O	1:Y:291:THR:C	2.38	0.66
1:Y:410:LEU:CD2	1:Y:427:LEU:N	2.57	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:a:12:TYR:CE1	1:a:96:GLN:CB	2.78	0.66
1:a:39:ILE:CG1	1:a:40:LEU:HD23	2.14	0.66
1:a:101:MET:O	1:a:105:MET:HB2	1.94	0.66
1:a:212:ASP:HB2	1:a:220:ARG:NH1	2.09	0.66
1:a:449:ILE:HG23	1:a:450:PRO:HD3	1.77	0.66
1:c:301:LEU:HD12	1:c:305:LEU:HB2	1.78	0.66
1:c:322:ARG:HG3	1:c:322:ARG:HH11	1.60	0.66
1:e:12:TYR:CE1	1:e:96:GLN:CB	2.78	0.66
1:e:242:LEU:HB3	1:e:262:ILE:HG22	1.78	0.66
1:e:247:VAL:HG21	1:e:264:LEU:CD1	2.26	0.66
1:A:242:LEU:HB3	1:A:262:ILE:HG22	1.78	0.66
1:C:242:LEU:HB3	1:C:262:ILE:HG22	1.78	0.66
1:G:242:LEU:HB3	1:G:262:ILE:HG22	1.78	0.66
1:G:274:PHE:CB	1:G:275:LEU:HD13	2.25	0.66
2:H:44:LEU:HB3	2:H:48:MET:HB3	1.78	0.66
1:I:242:LEU:HB3	1:I:262:ILE:HG22	1.78	0.66
1:I:518:LEU:HD11	1:I:646:UNK:C	2.24	0.66
2:J:81:GLN:HE21	2:J:81:GLN:CA	2.04	0.66
1:K:12:TYR:CE1	1:K:96:GLN:CB	2.78	0.66
1:K:203:ILE:HG21	1:K:231:LEU:HD22	1.76	0.66
1:K:242:LEU:HB3	1:K:262:ILE:HG22	1.78	0.66
1:K:247:VAL:HG21	1:K:264:LEU:CD1	2.26	0.66
1:K:348:LYS:O	1:K:352:ILE:HD12	1.89	0.66
1:K:420:ILE:CG2	1:K:422:ILE:HD11	2.25	0.66
1:K:424:SER:HA	1:K:427:LEU:CB	2.12	0.66
1:M:301:LEU:HD12	1:M:305:LEU:HB2	1.78	0.66
1:M:348:LYS:O	1:M:352:ILE:HD12	1.89	0.66
1:O:192:VAL:CB	1:O:221:ILE:HD12	2.21	0.66
1:O:243:VAL:HG11	1:O:263:LEU:HD21	1.77	0.66
1:O:283:ILE:HG22	1:O:283:ILE:O	1.94	0.66
1:O:295:ASP:O	1:O:298:LYS:CG	2.39	0.66
1:Q:247:VAL:HG21	1:Q:264:LEU:CD1	2.26	0.66
1:S:149:ILE:HG23	1:S:283:ILE:HG22	0.68	0.66
1:S:492:LEU:HG	1:S:573:ILE:HG23	1.77	0.66
2:V:43:ILE:HG22	2:V:44:LEU:HG	1.78	0.66
1:Y:247:VAL:HG21	1:Y:264:LEU:CD1	2.26	0.66
1:a:243:VAL:HG11	1:a:263:LEU:HD21	1.77	0.66
1:a:283:ILE:HG22	1:a:283:ILE:O	1.94	0.66
2:b:82:ARG:HG3	2:b:82:ARG:NH1	2.00	0.66
1:c:120:PHE:HE1	1:c:124:ASN:CB	2.04	0.66
1:e:149:ILE:HG23	1:e:283:ILE:HG22	0.68	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:e:203:ILE:HG21	1:e:231:LEU:HD22	1.76	0.66
1:e:348:LYS:O	1:e:352:ILE:HD12	1.89	0.66
2:B:43:ILE:HG22	2:B:44:LEU:HG	1.78	0.66
1:C:492:LEU:HG	1:C:573:ILE:HG23	1.77	0.66
1:E:129:GLN:CB	1:E:130:PRO:HD3	2.19	0.66
1:E:301:LEU:HD12	1:E:305:LEU:HB2	1.78	0.66
1:E:327:ILE:CD1	1:E:341:TRP:HZ3	1.89	0.66
1:E:420:ILE:CG2	1:E:422:ILE:HD11	2.25	0.66
1:E:559:THR:HA	1:E:562:LEU:HD23	1.76	0.66
2:F:43:ILE:HG22	2:F:44:LEU:HG	1.78	0.66
1:G:203:ILE:HG21	1:G:231:LEU:HD22	1.76	0.66
1:I:423:PRO:HG2	1:I:426:TYR:CE1	2.30	0.66
2:J:43:ILE:HG22	2:J:44:LEU:HG	1.78	0.66
1:K:149:ILE:HG23	1:K:283:ILE:HG22	0.68	0.66
1:M:86:LYS:CE	1:M:89:MET:HE3	2.08	0.66
1:M:449:ILE:HG23	1:M:450:PRO:HD3	1.77	0.66
1:O:101:MET:O	1:O:105:MET:HB2	1.94	0.66
1:O:200:LEU:HD12	1:O:228:LEU:CD1	2.26	0.66
1:Q:149:ILE:HG23	1:Q:283:ILE:HG22	0.68	0.66
1:Q:283:ILE:HG22	1:Q:283:ILE:O	1.94	0.66
1:S:242:LEU:HB3	1:S:262:ILE:HG22	1.78	0.66
1:S:274:PHE:CB	1:S:275:LEU:HD13	2.25	0.66
2:T:44:LEU:HB3	2:T:48:MET:HB3	1.78	0.66
1:U:148:LEU:HD21	1:U:282:HIS:HD2	1.60	0.66
1:U:242:LEU:HB3	1:U:262:ILE:HG22	1.78	0.66
1:U:301:LEU:HD12	1:U:305:LEU:HB2	1.78	0.66
1:U:327:ILE:CD1	1:U:341:TRP:HZ3	1.89	0.66
1:U:410:LEU:HD13	1:U:423:PRO:N	2.09	0.66
1:W:242:LEU:HD23	1:W:262:ILE:HB	1.76	0.66
1:Y:149:ILE:HG23	1:Y:283:ILE:HG22	0.68	0.66
1:a:200:LEU:HD12	1:a:228:LEU:CD1	2.26	0.66
1:c:242:LEU:HB3	1:c:262:ILE:HG22	1.78	0.66
1:e:410:LEU:CB	1:e:426:TYR:CD1	2.61	0.66
1:e:420:ILE:CG2	1:e:422:ILE:HD11	2.25	0.66
1:e:460:PRO:HG3	1:e:462:TYR:CE2	2.29	0.66
1:A:40:LEU:HD23	1:A:40:LEU:N	2.07	0.66
1:A:423:PRO:HG2	1:A:426:TYR:CE1	2.30	0.66
1:A:518:LEU:HD11	1:A:646:UNK:C	2.24	0.66
1:C:86:LYS:CD	1:C:89:MET:CE	2.73	0.66
1:E:148:LEU:HD21	1:E:282:HIS:HD2	1.60	0.66
1:E:203:ILE:HG21	1:E:231:LEU:HD22	1.76	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:242:LEU:HB3	1:E:262:ILE:HG22	1.78	0.66
1:E:243:VAL:HG11	1:E:263:LEU:HD21	1.77	0.66
1:E:410:LEU:HD13	1:E:423:PRO:N	2.09	0.66
1:E:518:LEU:HD11	1:E:646:UNK:C	2.24	0.66
1:G:148:LEU:HD21	1:G:282:HIS:HD2	1.60	0.66
1:G:149:ILE:HG23	1:G:283:ILE:HG22	0.68	0.66
1:G:247:VAL:HG21	1:G:264:LEU:CD1	2.26	0.66
2:H:81:GLN:HA	2:H:81:GLN:NE2	2.08	0.66
1:I:87:PHE:HD1	1:I:88:LEU:CD1	2.09	0.66
1:M:242:LEU:HB3	1:M:262:ILE:HG22	1.78	0.66
1:M:410:LEU:HD13	1:M:423:PRO:N	2.09	0.66
1:O:242:LEU:HB3	1:O:262:ILE:HG22	1.78	0.66
1:Q:242:LEU:HB3	1:Q:262:ILE:HG22	1.78	0.66
1:S:203:ILE:HG21	1:S:231:LEU:HD22	1.76	0.66
1:U:420:ILE:CG2	1:U:422:ILE:HD11	2.25	0.66
2:V:44:LEU:HB3	2:V:48:MET:HB3	1.78	0.66
1:W:423:PRO:HG2	1:W:426:TYR:CE1	2.30	0.66
1:W:533:PRO:HA	1:W:536:GLU:HB2	1.77	0.66
2:X:43:ILE:HG22	2:X:44:LEU:HG	1.77	0.66
1:Y:242:LEU:HB3	1:Y:262:ILE:HG22	1.78	0.66
1:C:327:ILE:CD1	1:C:341:TRP:HZ3	1.89	0.66
1:C:376:PRO:CD	1:C:470:HIS:CD2	2.79	0.66
1:C:423:PRO:HG2	1:C:426:TYR:CE1	2.30	0.66
1:C:533:PRO:HA	1:C:536:GLU:HB2	1.77	0.66
2:D:43:ILE:HG12	2:D:89:LEU:HD23	1.78	0.66
1:E:327:ILE:HG21	1:E:341:TRP:HE3	1.58	0.66
2:F:44:LEU:HB3	2:F:48:MET:HB3	1.78	0.66
1:G:420:ILE:CG2	1:G:422:ILE:HD11	2.25	0.66
1:I:87:PHE:HE2	2:J:82:ARG:C	1.99	0.66
1:I:420:ILE:CG2	1:I:422:ILE:HD11	2.25	0.66
1:K:86:LYS:CD	1:K:89:MET:CE	2.73	0.66
1:M:237:TYR:C	1:M:239:ASN:N	2.50	0.66
1:M:243:VAL:HG11	1:M:263:LEU:HD21	1.77	0.66
2:N:105:LEU:HD11	2:T:105:LEU:HD11	1.77	0.66
1:O:287:HIS:CE1	1:O:288:HIS:CD2	2.84	0.66
1:O:533:PRO:HA	1:O:536:GLU:HB2	1.77	0.66
1:Q:235:LYS:CE	1:Q:238:GLU:HG3	2.21	0.66
1:Q:376:PRO:CD	1:Q:470:HIS:CD2	2.79	0.66
1:S:39:ILE:O	1:S:40:LEU:HD23	1.94	0.66
1:S:148:LEU:HD21	1:S:282:HIS:HD2	1.60	0.66
1:S:247:VAL:HG21	1:S:264:LEU:CD1	2.26	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:S:410:LEU:HD13	1:S:423:PRO:N	2.09	0.66
1:U:203:ILE:HG21	1:U:231:LEU:HD22	1.76	0.66
1:U:243:VAL:HG11	1:U:263:LEU:HD21	1.77	0.66
1:U:247:VAL:HG21	1:U:264:LEU:CD1	2.26	0.66
1:U:559:THR:HA	1:U:562:LEU:HD23	1.76	0.66
1:W:86:LYS:CD	1:W:89:MET:CE	2.73	0.66
1:W:101:MET:O	1:W:105:MET:HB2	1.94	0.66
1:W:287:HIS:CE1	1:W:288:HIS:CD2	2.84	0.66
1:W:327:ILE:CD1	1:W:341:TRP:HZ3	1.89	0.66
1:W:376:PRO:CD	1:W:470:HIS:CD2	2.79	0.66
1:W:492:LEU:HG	1:W:573:ILE:HG23	1.77	0.66
2:X:43:ILE:HG12	2:X:89:LEU:HD23	1.78	0.66
1:Y:376:PRO:CD	1:Y:470:HIS:CD2	2.79	0.66
1:a:242:LEU:HB3	1:a:262:ILE:HG22	1.78	0.66
1:a:287:HIS:CE1	1:a:288:HIS:CD2	2.84	0.66
1:a:295:ASP:O	1:a:298:LYS:CG	2.39	0.66
1:a:322:ARG:HH11	1:a:322:ARG:HG3	1.61	0.66
1:a:533:PRO:HA	1:a:536:GLU:HB2	1.77	0.66
1:c:449:ILE:HG23	1:c:450:PRO:HD3	1.77	0.66
1:e:382:PRO:CB	1:e:463:LEU:HD22	2.20	0.66
1:e:557:LYS:CA	1:e:557:LYS:HE3	2.24	0.66
1:A:322:ARG:HG3	1:A:322:ARG:HH11	1.60	0.66
1:A:420:ILE:CG2	1:A:422:ILE:HD11	2.25	0.66
2:B:43:ILE:HG12	2:B:89:LEU:HD23	1.78	0.66
1:C:287:HIS:CE1	1:C:288:HIS:CD2	2.84	0.66
1:C:422:ILE:CG2	1:C:423:PRO:HD3	2.23	0.66
2:D:43:ILE:HG22	2:D:44:LEU:HG	1.78	0.66
1:E:86:LYS:CD	1:E:89:MET:CE	2.73	0.66
1:E:120:PHE:HE1	1:E:124:ASN:CB	2.04	0.66
1:E:247:VAL:HG21	1:E:264:LEU:CD1	2.26	0.66
1:G:410:LEU:HD13	1:G:423:PRO:N	2.09	0.66
1:I:40:LEU:HD23	1:I:40:LEU:N	2.07	0.66
2:J:43:ILE:HG12	2:J:89:LEU:HD23	1.78	0.66
1:K:178:ILE:HG22	1:K:241:LEU:CD2	2.01	0.66
1:K:242:LEU:HD23	1:K:262:ILE:HB	1.76	0.66
1:K:287:HIS:CE1	1:K:288:HIS:CD2	2.84	0.66
1:M:120:PHE:HE1	1:M:124:ASN:CB	2.04	0.66
1:M:423:PRO:HG2	1:M:426:TYR:CE1	2.30	0.66
1:O:39:ILE:CG1	1:O:40:LEU:HD23	2.14	0.66
1:O:322:ARG:HH11	1:O:322:ARG:HG3	1.61	0.66
1:O:376:PRO:CD	1:O:470:HIS:CD2	2.79	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Q:212:ASP:HB2	1:Q:220:ARG:NH1	2.09	0.66
1:Q:422:ILE:N	1:Q:422:ILE:HD13	2.09	0.66
1:S:322:ARG:HH11	1:S:322:ARG:HG3	1.61	0.66
1:S:420:ILE:CG2	1:S:422:ILE:HD11	2.25	0.66
1:S:518:LEU:HD11	1:S:646:UNK:C	2.24	0.66
1:U:120:PHE:HE1	1:U:124:ASN:CB	2.04	0.66
1:U:283:ILE:HG22	1:U:283:ILE:O	1.94	0.66
1:U:290:MET:O	1:U:291:THR:C	2.38	0.66
1:U:518:LEU:HD11	1:U:646:UNK:C	2.24	0.66
2:V:43:ILE:HG12	2:V:89:LEU:HD23	1.78	0.66
1:a:148:LEU:HD21	1:a:282:HIS:HD2	1.60	0.66
1:a:376:PRO:CD	1:a:470:HIS:CD2	2.79	0.66
2:b:77:LEU:C	2:b:80:THR:CG2	2.69	0.66
1:c:86:LYS:CD	1:c:89:MET:CE	2.73	0.66
1:c:243:VAL:HG11	1:c:263:LEU:HD21	1.77	0.66
1:c:410:LEU:HD13	1:c:423:PRO:N	2.09	0.66
1:e:86:LYS:CD	1:e:89:MET:CE	2.73	0.66
1:e:242:LEU:HD23	1:e:262:ILE:HB	1.76	0.66
1:e:287:HIS:CE1	1:e:288:HIS:CD2	2.84	0.66
1:e:405:LEU:HB3	1:e:411:VAL:CG1	2.22	0.66
1:A:87:PHE:HE2	2:B:82:ARG:C	1.99	0.66
1:A:148:LEU:HD21	1:A:282:HIS:HD2	1.60	0.66
1:C:360:LEU:O	1:C:360:LEU:HD23	1.96	0.66
1:C:410:LEU:HD22	1:C:427:LEU:CB	2.26	0.66
2:D:44:LEU:HB3	2:D:48:MET:HB3	1.78	0.66
1:E:92:ILE:O	1:E:95:GLU:N	2.28	0.66
1:E:283:ILE:HG22	1:E:283:ILE:O	1.94	0.66
1:E:287:HIS:CE1	1:E:288:HIS:CD2	2.84	0.66
1:E:290:MET:O	1:E:291:THR:C	2.38	0.66
2:F:43:ILE:HG12	2:F:89:LEU:HD23	1.78	0.66
1:G:39:ILE:O	1:G:40:LEU:HD23	1.94	0.66
1:G:518:LEU:HD11	1:G:646:UNK:C	2.24	0.66
2:H:43:ILE:HG12	2:H:89:LEU:HD23	1.78	0.66
2:H:105:LEU:HD11	2:d:105:LEU:HD11	1.77	0.66
1:I:322:ARG:HG3	1:I:322:ARG:HH11	1.60	0.66
1:K:405:LEU:HB3	1:K:411:VAL:CG1	2.22	0.66
1:K:557:LYS:CA	1:K:557:LYS:HE3	2.24	0.66
1:M:86:LYS:CD	1:M:89:MET:CE	2.73	0.66
1:M:183:LEU:HD23	1:M:186:CYS:SG	2.31	0.66
1:M:247:VAL:HG21	1:M:264:LEU:CD1	2.26	0.66
1:O:405:LEU:HB3	1:O:411:VAL:CG1	2.22	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:O:492:LEU:HG	1:O:573:ILE:HG23	1.77	0.66
2:P:44:LEU:HB3	2:P:48:MET:HB3	1.78	0.66
2:P:77:LEU:C	2:P:80:THR:CG2	2.69	0.66
1:Q:86:LYS:CD	1:Q:89:MET:CE	2.73	0.66
1:Q:231:LEU:CD2	1:Q:237:TYR:HE2	2.09	0.66
1:Q:518:LEU:HD11	1:Q:646:UNK:C	2.24	0.66
2:T:81:GLN:HA	2:T:81:GLN:NE2	2.08	0.66
1:U:86:LYS:CD	1:U:89:MET:CE	2.73	0.66
1:U:129:GLN:CB	1:U:130:PRO:HD3	2.19	0.66
1:U:322:ARG:HH11	1:U:322:ARG:HG3	1.60	0.66
1:W:360:LEU:O	1:W:360:LEU:HD23	1.96	0.66
1:W:382:PRO:CB	1:W:463:LEU:HD22	2.20	0.66
1:W:410:LEU:HD22	1:W:427:LEU:CB	2.26	0.66
2:X:77:LEU:C	2:X:80:THR:CG2	2.69	0.66
1:Y:86:LYS:CD	1:Y:89:MET:CE	2.73	0.66
1:Y:231:LEU:CD2	1:Y:237:TYR:HE2	2.09	0.66
1:Y:518:LEU:HD11	1:Y:646:UNK:C	2.24	0.66
1:c:12:TYR:CE1	1:c:96:GLN:CB	2.78	0.66
1:c:86:LYS:CE	1:c:89:MET:HE3	2.08	0.66
1:c:183:LEU:HD23	1:c:186:CYS:SG	2.31	0.66
1:c:423:PRO:HG2	1:c:426:TYR:CE1	2.30	0.66
1:e:424:SER:HA	1:e:427:LEU:CB	2.12	0.66
1:A:39:ILE:O	1:A:40:LEU:HD23	1.94	0.66
1:A:287:HIS:CE1	1:A:288:HIS:CD2	2.84	0.66
2:B:77:LEU:C	2:B:80:THR:CG2	2.69	0.66
1:C:101:MET:O	1:C:105:MET:HB2	1.94	0.66
1:C:148:LEU:HD21	1:C:282:HIS:HD2	1.60	0.66
1:C:164:VAL:O	1:C:167:SER:HB2	1.96	0.66
2:D:77:LEU:C	2:D:80:THR:CG2	2.69	0.66
1:G:92:ILE:O	1:G:95:GLU:N	2.28	0.66
1:G:322:ARG:HH11	1:G:322:ARG:HG3	1.61	0.66
1:I:39:ILE:O	1:I:40:LEU:HD23	1.94	0.66
1:I:287:HIS:CE1	1:I:288:HIS:CD2	2.84	0.66
1:I:455:SER:OG	1:I:459:ILE:O	2.12	0.66
2:J:77:LEU:C	2:J:80:THR:CG2	2.69	0.66
1:K:87:PHE:HE2	2:L:82:ARG:C	1.99	0.66
1:K:200:LEU:HD12	1:K:228:LEU:CD1	2.26	0.66
1:K:382:PRO:CB	1:K:463:LEU:HD22	2.20	0.66
1:M:12:TYR:CE1	1:M:96:GLN:CB	2.78	0.66
1:M:178:ILE:HG22	1:M:241:LEU:CD2	2.01	0.66
1:O:148:LEU:HD21	1:O:282:HIS:HD2	1.60	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:O:231:LEU:CD2	1:O:237:TYR:HE2	2.09	0.66
1:O:518:LEU:HD11	1:O:646:UNK:C	2.24	0.66
1:Q:237:TYR:C	1:Q:239:ASN:N	2.50	0.66
1:S:92:ILE:O	1:S:95:GLU:N	2.28	0.66
1:S:243:VAL:HG11	1:S:263:LEU:HD21	1.77	0.66
1:S:410:LEU:HD22	1:S:427:LEU:CB	2.26	0.66
2:T:43:ILE:HG12	2:T:89:LEU:HD23	1.78	0.66
1:U:92:ILE:O	1:U:95:GLU:N	2.28	0.66
1:U:287:HIS:CE1	1:U:288:HIS:CD2	2.84	0.66
1:W:164:VAL:O	1:W:167:SER:HB2	1.96	0.66
1:W:422:ILE:CG2	1:W:423:PRO:HD3	2.23	0.66
1:Y:212:ASP:HB2	1:Y:220:ARG:NH1	2.09	0.66
1:Y:237:TYR:C	1:Y:239:ASN:N	2.50	0.66
1:Y:422:ILE:N	1:Y:422:ILE:HD13	2.09	0.66
1:a:203:ILE:HG21	1:a:231:LEU:HD22	1.76	0.66
1:a:405:LEU:HB3	1:a:411:VAL:CG1	2.22	0.66
2:b:44:LEU:HB3	2:b:48:MET:HB3	1.78	0.66
1:c:247:VAL:HG21	1:c:264:LEU:CD1	2.26	0.66
1:e:200:LEU:HD12	1:e:228:LEU:CD1	2.26	0.66
1:A:455:SER:OG	1:A:459:ILE:O	2.12	0.65
1:C:183:LEU:HD23	1:C:186:CYS:SG	2.31	0.65
1:C:247:VAL:HG21	1:C:264:LEU:CD1	2.26	0.65
1:C:283:ILE:HG22	1:C:283:ILE:O	1.94	0.65
1:C:423:PRO:HG2	1:C:426:TYR:HE1	1.61	0.65
1:E:322:ARG:HG3	1:E:322:ARG:HH11	1.60	0.65
1:E:422:ILE:CG2	1:E:423:PRO:HD3	2.23	0.65
1:G:243:VAL:HG11	1:G:263:LEU:HD21	1.77	0.65
1:G:360:LEU:O	1:G:360:LEU:HD23	1.96	0.65
1:G:410:LEU:HD22	1:G:427:LEU:CB	2.26	0.65
1:I:148:LEU:HD21	1:I:282:HIS:HD2	1.60	0.65
1:I:243:VAL:HG11	1:I:263:LEU:HD21	1.77	0.65
1:K:212:ASP:HB2	1:K:220:ARG:NH1	2.09	0.65
1:M:290:MET:O	1:M:291:THR:C	2.38	0.65
1:M:423:PRO:HG2	1:M:426:TYR:HE1	1.61	0.65
1:S:287:HIS:CE1	1:S:288:HIS:CD2	2.84	0.65
1:S:360:LEU:O	1:S:360:LEU:HD23	1.96	0.65
1:U:327:ILE:HG21	1:U:341:TRP:HE3	1.58	0.65
1:W:183:LEU:HD23	1:W:186:CYS:SG	2.31	0.65
2:X:44:LEU:HB3	2:X:48:MET:HB3	1.78	0.65
1:a:231:LEU:CD2	1:a:237:TYR:HE2	2.09	0.65
1:c:178:ILE:HG22	1:c:241:LEU:CD2	2.01	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:c:423:PRO:HG2	1:c:426:TYR:HE1	1.61	0.65
1:e:12:TYR:CD2	1:e:77:VAL:HG11	2.30	0.65
1:e:87:PHE:HE2	2:f:82:ARG:C	1.99	0.65
1:e:178:ILE:HG22	1:e:241:LEU:CD2	2.01	0.65
1:e:212:ASP:HB2	1:e:220:ARG:NH1	2.09	0.65
1:A:243:VAL:HG11	1:A:263:LEU:HD21	1.77	0.65
1:A:301:LEU:HD12	1:A:305:LEU:HB2	1.78	0.65
1:C:200:LEU:HD12	1:C:228:LEU:CD1	2.26	0.65
1:E:216:ASN:CB	1:E:219:LEU:H	2.07	0.65
1:G:287:HIS:CE1	1:G:288:HIS:CD2	2.84	0.65
1:G:423:PRO:HG2	1:G:426:TYR:CE1	2.30	0.65
1:I:92:ILE:O	1:I:95:GLU:N	2.28	0.65
1:I:212:ASP:HB2	1:I:220:ARG:NH1	2.09	0.65
1:K:12:TYR:CD2	1:K:77:VAL:HG11	2.30	0.65
1:K:15:ILE:HG23	1:K:95:GLU:HB3	1.74	0.65
1:K:492:LEU:HG	1:K:573:ILE:HG23	1.77	0.65
1:M:287:HIS:CE1	1:M:288:HIS:CD2	2.84	0.65
1:M:376:PRO:CD	1:M:470:HIS:CD2	2.79	0.65
1:O:203:ILE:HG21	1:O:231:LEU:HD22	1.76	0.65
2:R:43:ILE:HG12	2:R:89:LEU:HD23	1.78	0.65
1:S:87:PHE:HE2	2:T:82:ARG:C	1.99	0.65
1:U:376:PRO:CD	1:U:470:HIS:CD2	2.79	0.65
1:W:148:LEU:HD21	1:W:282:HIS:HD2	1.60	0.65
1:W:247:VAL:HG21	1:W:264:LEU:CD1	2.26	0.65
1:W:283:ILE:HG22	1:W:283:ILE:O	1.94	0.65
1:W:423:PRO:HG2	1:W:426:TYR:HE1	1.61	0.65
1:Y:243:VAL:HG11	1:Y:263:LEU:HD21	1.77	0.65
2:Z:44:LEU:HB3	2:Z:48:MET:HB3	1.78	0.65
1:a:492:LEU:HG	1:a:573:ILE:HG23	1.77	0.65
1:a:518:LEU:HD11	1:a:646:UNK:C	2.24	0.65
1:c:39:ILE:O	1:c:40:LEU:HD23	1.94	0.65
2:d:77:LEU:C	2:d:80:THR:CG2	2.69	0.65
1:A:92:ILE:O	1:A:95:GLU:N	2.28	0.65
1:A:231:LEU:CD2	1:A:237:TYR:HE2	2.09	0.65
1:A:559:THR:HA	1:A:562:LEU:HD23	1.76	0.65
1:C:231:LEU:CD2	1:C:237:TYR:HE2	2.09	0.65
1:C:382:PRO:CB	1:C:463:LEU:HD22	2.20	0.65
1:C:410:LEU:HD13	1:C:423:PRO:N	2.09	0.65
1:E:376:PRO:CD	1:E:470:HIS:CD2	2.79	0.65
1:G:290:MET:O	1:G:291:THR:C	2.38	0.65
1:I:274:PHE:CB	1:I:275:LEU:HD13	2.25	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:301:LEU:HD12	1:I:305:LEU:HB2	1.78	0.65
1:I:559:THR:HA	1:I:562:LEU:HD23	1.76	0.65
1:K:166:LEU:HD23	1:K:167:SER:CA	2.26	0.65
2:L:77:LEU:C	2:L:80:THR:CG2	2.69	0.65
1:M:148:LEU:HD21	1:M:282:HIS:HD2	1.60	0.65
2:N:77:LEU:C	2:N:80:THR:CG2	2.69	0.65
1:O:301:LEU:HD12	1:O:305:LEU:HB2	1.78	0.65
1:Q:243:VAL:HG11	1:Q:263:LEU:HD21	1.77	0.65
1:Q:287:HIS:CE1	1:Q:288:HIS:CD2	2.84	0.65
1:S:423:PRO:HG2	1:S:426:TYR:CE1	2.30	0.65
2:T:77:LEU:C	2:T:80:THR:CG2	2.69	0.65
1:U:216:ASN:CB	1:U:219:LEU:H	2.07	0.65
1:W:200:LEU:HD12	1:W:228:LEU:CD1	2.26	0.65
1:W:231:LEU:CD2	1:W:237:TYR:HE2	2.09	0.65
1:W:410:LEU:HD13	1:W:423:PRO:N	2.09	0.65
2:Z:43:ILE:HG12	2:Z:89:LEU:HD23	1.78	0.65
1:a:247:VAL:HG21	1:a:264:LEU:CD1	2.26	0.65
1:c:142:ARG:NH2	1:e:14:ASP:OD2	2.29	0.65
1:c:287:HIS:CE1	1:c:288:HIS:CD2	2.84	0.65
1:c:290:MET:O	1:c:291:THR:C	2.38	0.65
1:c:376:PRO:CD	1:c:470:HIS:CD2	2.79	0.65
1:e:166:LEU:HD23	1:e:167:SER:CA	2.26	0.65
1:A:12:TYR:HD1	1:A:96:GLN:OE1	1.80	0.65
1:A:212:ASP:HB2	1:A:220:ARG:NH1	2.09	0.65
1:A:274:PHE:CB	1:A:275:LEU:HD13	2.25	0.65
1:C:92:ILE:O	1:C:95:GLU:N	2.28	0.65
1:C:290:MET:O	1:C:291:THR:C	2.38	0.65
2:F:77:LEU:C	2:F:80:THR:CG2	2.69	0.65
1:G:87:PHE:HE2	2:H:82:ARG:C	1.99	0.65
2:H:77:LEU:C	2:H:80:THR:CG2	2.69	0.65
1:I:12:TYR:HD1	1:I:96:GLN:OE1	1.80	0.65
1:I:231:LEU:CD2	1:I:237:TYR:HE2	2.09	0.65
1:I:410:LEU:CB	1:I:426:TYR:CD1	2.61	0.65
1:I:410:LEU:HD22	1:I:427:LEU:CB	2.26	0.65
1:K:14:ASP:OD2	1:M:142:ARG:NH2	2.29	0.65
1:M:39:ILE:O	1:M:40:LEU:HD23	1.94	0.65
1:M:231:LEU:CD2	1:M:237:TYR:HE2	2.09	0.65
1:O:247:VAL:HG21	1:O:264:LEU:CD1	2.26	0.65
1:O:410:LEU:HD22	1:O:427:LEU:CB	2.26	0.65
2:R:44:LEU:HB3	2:R:48:MET:HB3	1.78	0.65
1:S:166:LEU:HD23	1:S:167:SER:CA	2.26	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:S:216:ASN:CB	1:S:219:LEU:H	2.07	0.65
1:U:142:ARG:NH2	1:W:14:ASP:OD2	2.29	0.65
1:U:422:ILE:CG2	1:U:423:PRO:HD3	2.23	0.65
1:W:149:ILE:HG23	1:W:283:ILE:HG22	0.68	0.65
1:Y:92:ILE:O	1:Y:95:GLU:N	2.28	0.65
1:Y:287:HIS:CE1	1:Y:288:HIS:CD2	2.84	0.65
1:a:301:LEU:HD12	1:a:305:LEU:HB2	1.78	0.65
1:a:410:LEU:HD22	1:a:427:LEU:CB	2.26	0.65
1:e:15:ILE:HG23	1:e:95:GLU:HB3	1.74	0.65
1:e:410:LEU:HD22	1:e:427:LEU:CB	2.26	0.65
1:e:492:LEU:HG	1:e:573:ILE:HG23	1.77	0.65
1:A:241:LEU:HA	1:A:261:LYS:O	1.97	0.65
1:A:410:LEU:HD22	1:A:427:LEU:CB	2.26	0.65
1:C:14:ASP:OD2	1:E:142:ARG:NH2	2.29	0.65
1:C:149:ILE:HG23	1:C:283:ILE:HG22	0.68	0.65
1:E:14:ASP:OD2	1:G:142:ARG:NH2	2.29	0.65
1:E:164:VAL:O	1:E:167:SER:HB2	1.96	0.65
1:G:166:LEU:HD23	1:G:167:SER:CA	2.26	0.65
1:G:216:ASN:CB	1:G:219:LEU:H	2.07	0.65
1:G:411:VAL:HG12	1:G:411:VAL:O	1.97	0.65
1:I:241:LEU:HA	1:I:261:LYS:O	1.97	0.65
1:K:410:LEU:HD22	1:K:427:LEU:CB	2.26	0.65
1:Q:241:LEU:HA	1:Q:261:LYS:O	1.97	0.65
1:Q:295:ASP:O	1:Q:298:LYS:CG	2.39	0.65
2:R:77:LEU:C	2:R:80:THR:CG2	2.69	0.65
1:S:87:PHE:HD1	1:S:88:LEU:CD1	2.08	0.65
1:S:142:ARG:NH2	1:U:14:ASP:OD2	2.29	0.65
1:S:290:MET:O	1:S:291:THR:C	2.38	0.65
1:S:411:VAL:HG12	1:S:411:VAL:O	1.97	0.65
2:V:77:LEU:C	2:V:80:THR:CG2	2.69	0.65
1:W:15:ILE:HG23	1:W:95:GLU:HB3	1.74	0.65
1:W:92:ILE:O	1:W:95:GLU:N	2.28	0.65
1:W:142:ARG:NH2	1:Y:14:ASP:OD2	2.29	0.65
1:Y:241:LEU:HA	1:Y:261:LYS:O	1.97	0.65
2:Z:77:LEU:C	2:Z:80:THR:CG2	2.69	0.65
1:a:149:ILE:HG23	1:a:283:ILE:HG22	0.68	0.65
1:c:12:TYR:CD2	1:c:77:VAL:HG11	2.30	0.65
1:c:203:ILE:HG21	1:c:231:LEU:HD22	1.76	0.65
2:f:77:LEU:C	2:f:80:THR:CG2	2.69	0.65
1:A:14:ASP:OD2	1:e:142:ARG:NH2	2.29	0.65
1:A:247:VAL:HG21	1:A:264:LEU:CD1	2.26	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:410:LEU:HD13	1:A:423:PRO:N	2.09	0.65
1:A:533:PRO:HA	1:A:536:GLU:HB2	1.78	0.65
1:C:142:ARG:NH2	1:Q:14:ASP:OD2	2.29	0.65
1:E:410:LEU:HD22	1:E:427:LEU:CB	2.26	0.65
1:G:12:TYR:HD1	1:G:96:GLN:OE1	1.80	0.65
1:G:87:PHE:HD1	1:G:88:LEU:CD1	2.08	0.65
1:I:410:LEU:HD13	1:I:423:PRO:N	2.09	0.65
1:K:301:LEU:HD12	1:K:305:LEU:HB2	1.78	0.65
1:K:322:ARG:HH11	1:K:322:ARG:HG3	1.61	0.65
1:M:203:ILE:HG21	1:M:231:LEU:HD22	1.76	0.65
1:O:12:TYR:CD2	1:O:77:VAL:HG11	2.30	0.65
1:O:149:ILE:HG23	1:O:283:ILE:HG22	0.68	0.65
1:O:199:LEU:HD11	1:O:242:LEU:HD13	1.79	0.65
1:O:360:LEU:HD12	1:O:405:LEU:HD22	1.71	0.65
1:Q:92:ILE:O	1:Q:95:GLU:N	2.28	0.65
1:S:12:TYR:HD1	1:S:96:GLN:OE1	1.80	0.65
1:U:164:VAL:O	1:U:167:SER:HB2	1.96	0.65
1:W:216:ASN:CB	1:W:219:LEU:H	2.07	0.65
1:W:290:MET:O	1:W:291:THR:C	2.38	0.65
1:a:360:LEU:HD12	1:a:405:LEU:HD22	1.71	0.65
1:c:148:LEU:HD21	1:c:282:HIS:HD2	1.60	0.65
1:c:164:VAL:O	1:c:167:SER:HB2	1.96	0.65
1:c:231:LEU:CD2	1:c:237:TYR:HE2	2.09	0.65
1:e:164:VAL:O	1:e:167:SER:HB2	1.96	0.65
2:f:43:ILE:HG12	2:f:89:LEU:HD23	1.78	0.65
1:C:101:MET:O	1:C:105:MET:CB	2.45	0.65
1:C:216:ASN:CB	1:C:219:LEU:H	2.07	0.65
1:E:533:PRO:HA	1:E:536:GLU:HB2	1.78	0.65
1:I:14:ASP:OD2	1:K:142:ARG:NH2	2.29	0.65
1:I:533:PRO:HA	1:I:536:GLU:HB2	1.78	0.65
2:L:43:ILE:HG12	2:L:89:LEU:HD23	1.78	0.65
1:M:12:TYR:CD2	1:M:77:VAL:HG11	2.30	0.65
2:N:77:LEU:C	2:N:80:THR:HG22	2.22	0.65
1:O:86:LYS:CD	1:O:89:MET:CE	2.73	0.65
1:Q:12:TYR:CD2	1:Q:77:VAL:HG11	2.30	0.65
1:Q:101:MET:O	1:Q:105:MET:CB	2.45	0.65
1:Q:411:VAL:O	1:Q:411:VAL:HG12	1.97	0.65
2:R:43:ILE:HG22	2:R:44:LEU:HG	1.78	0.65
1:S:241:LEU:HA	1:S:261:LYS:O	1.97	0.65
1:U:410:LEU:HD22	1:U:427:LEU:CB	2.26	0.65
1:W:101:MET:O	1:W:105:MET:CB	2.45	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:W:322:ARG:HG3	1:W:322:ARG:HH11	1.61	0.65
1:Y:101:MET:O	1:Y:105:MET:CB	2.45	0.65
1:Y:142:ARG:NH2	1:a:14:ASP:OD2	2.29	0.65
1:Y:411:VAL:O	1:Y:411:VAL:HG12	1.97	0.65
1:a:86:LYS:CD	1:a:89:MET:CE	2.73	0.65
1:a:87:PHE:HE2	2:b:82:ARG:C	1.99	0.65
1:a:199:LEU:HD11	1:a:242:LEU:HD13	1.79	0.65
2:d:77:LEU:C	2:d:80:THR:HG22	2.22	0.65
1:e:322:ARG:HH11	1:e:322:ARG:HG3	1.61	0.65
1:e:533:PRO:HA	1:e:536:GLU:HB2	1.77	0.65
2:f:43:ILE:HG22	2:f:44:LEU:HG	1.78	0.65
1:A:12:TYR:CD2	1:A:77:VAL:HG11	2.30	0.65
1:A:164:VAL:O	1:A:167:SER:HB2	1.96	0.65
2:B:77:LEU:C	2:B:80:THR:HG22	2.22	0.65
1:C:15:ILE:HG23	1:C:95:GLU:HB3	1.74	0.65
1:E:71:GLU:HA	1:E:71:GLU:OE1	1.97	0.65
1:E:88:LEU:HD12	1:E:88:LEU:N	2.12	0.65
1:E:231:LEU:CD2	1:E:237:TYR:HE2	2.09	0.65
1:G:241:LEU:HA	1:G:261:LYS:O	1.97	0.65
1:I:12:TYR:CD2	1:I:77:VAL:HG11	2.30	0.65
1:I:200:LEU:HD12	1:I:228:LEU:CD1	2.26	0.65
1:I:247:VAL:HG21	1:I:264:LEU:CD1	2.26	0.65
1:I:423:PRO:HG2	1:I:426:TYR:HE1	1.61	0.65
2:J:77:LEU:C	2:J:80:THR:HG22	2.22	0.65
1:K:12:TYR:HD1	1:K:96:GLN:OE1	1.80	0.65
1:K:164:VAL:O	1:K:167:SER:HB2	1.96	0.65
1:K:533:PRO:HA	1:K:536:GLU:HB2	1.77	0.65
2:L:43:ILE:HG22	2:L:44:LEU:HG	1.78	0.65
1:M:88:LEU:HD12	1:M:88:LEU:N	2.12	0.65
1:M:164:VAL:O	1:M:167:SER:HB2	1.96	0.65
1:M:318:THR:OG1	1:M:341:TRP:CH2	2.50	0.65
1:O:14:ASP:OD2	1:Q:142:ARG:NH2	2.29	0.65
1:Q:88:LEU:HD12	1:Q:88:LEU:N	2.12	0.65
1:Q:120:PHE:HE1	1:Q:124:ASN:CB	2.04	0.65
1:Q:360:LEU:HD23	1:Q:360:LEU:O	1.96	0.65
1:S:327:ILE:CD1	1:S:341:TRP:HZ3	1.89	0.65
1:U:87:PHE:HE2	2:V:82:ARG:C	1.99	0.65
1:U:88:LEU:HD12	1:U:88:LEU:N	2.12	0.65
1:U:231:LEU:CD2	1:U:237:TYR:HE2	2.09	0.65
1:U:533:PRO:HA	1:U:536:GLU:HB2	1.78	0.65
1:Y:12:TYR:CD2	1:Y:77:VAL:HG11	2.30	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Y:88:LEU:HD12	1:Y:88:LEU:N	2.12	0.65
1:Y:295:ASP:O	1:Y:298:LYS:CG	2.39	0.65
2:Z:43:ILE:HG22	2:Z:44:LEU:HG	1.78	0.65
1:a:12:TYR:CD2	1:a:77:VAL:HG11	2.30	0.65
1:c:88:LEU:HD12	1:c:88:LEU:N	2.12	0.65
1:c:318:THR:OG1	1:c:341:TRP:CH2	2.50	0.65
1:e:12:TYR:HD1	1:e:96:GLN:OE1	1.80	0.65
1:e:39:ILE:O	1:e:40:LEU:HD23	1.94	0.65
1:e:231:LEU:CD2	1:e:237:TYR:HE2	2.09	0.65
1:e:301:LEU:HD12	1:e:305:LEU:HB2	1.78	0.65
1:A:101:MET:O	1:A:105:MET:CB	2.45	0.65
1:A:200:LEU:HD12	1:A:228:LEU:CD1	2.26	0.65
1:A:410:LEU:CB	1:A:426:TYR:CD1	2.61	0.65
1:C:87:PHE:HD1	1:C:88:LEU:CD1	2.08	0.65
1:C:166:LEU:HD23	1:C:167:SER:CA	2.26	0.65
1:C:178:ILE:HG22	1:C:241:LEU:CD2	2.01	0.65
1:C:301:LEU:HD12	1:C:305:LEU:HB2	1.78	0.65
1:C:322:ARG:HH11	1:C:322:ARG:HG3	1.61	0.65
1:G:231:LEU:CD2	1:G:237:TYR:HE2	2.09	0.65
1:G:327:ILE:CD1	1:G:341:TRP:HZ3	1.89	0.65
1:G:488:ARG:HB3	1:G:491:PHE:O	1.97	0.65
1:I:101:MET:O	1:I:105:MET:CB	2.45	0.65
1:I:164:VAL:O	1:I:167:SER:HB2	1.96	0.65
1:I:318:THR:OG1	1:I:341:TRP:CH2	2.50	0.65
1:K:318:THR:OG1	1:K:341:TRP:CH2	2.50	0.65
1:O:164:VAL:O	1:O:167:SER:HB2	1.96	0.65
2:P:77:LEU:C	2:P:80:THR:HG22	2.22	0.65
1:Q:166:LEU:HD23	1:Q:167:SER:CA	2.26	0.65
1:Q:410:LEU:HD22	1:Q:427:LEU:CB	2.26	0.65
1:S:231:LEU:CD2	1:S:237:TYR:HE2	2.09	0.65
1:S:488:ARG:HB3	1:S:491:PHE:O	1.97	0.65
1:U:39:ILE:O	1:U:40:LEU:HD23	1.94	0.65
1:U:71:GLU:OE1	1:U:71:GLU:HA	1.97	0.65
1:W:87:PHE:HD1	1:W:88:LEU:CD1	2.08	0.65
1:W:166:LEU:HD23	1:W:167:SER:CA	2.26	0.65
1:Y:120:PHE:HE1	1:Y:124:ASN:CB	2.04	0.65
1:Y:166:LEU:HD23	1:Y:167:SER:CA	2.26	0.65
1:Y:423:PRO:HG2	1:Y:426:TYR:HE1	1.61	0.65
2:b:77:LEU:C	2:b:80:THR:HG22	2.22	0.65
1:e:243:VAL:HG11	1:e:263:LEU:HD21	1.77	0.65
1:e:318:THR:OG1	1:e:341:TRP:CH2	2.50	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:142:ARG:NH2	1:S:14:ASP:OD2	2.29	0.65
1:A:318:THR:OG1	1:A:341:TRP:CH2	2.50	0.65
1:A:376:PRO:CD	1:A:470:HIS:CD2	2.79	0.65
1:A:411:VAL:HG12	1:A:411:VAL:O	1.97	0.65
1:A:423:PRO:HG2	1:A:426:TYR:HE1	1.61	0.65
1:C:295:ASP:O	1:C:298:LYS:CG	2.39	0.65
1:C:518:LEU:CD2	1:C:646:UNK:C	2.52	0.65
1:E:12:TYR:HD1	1:E:96:GLN:OE1	1.80	0.65
1:E:39:ILE:O	1:E:40:LEU:HD23	1.94	0.65
1:E:318:THR:OG1	1:E:341:TRP:CH2	2.50	0.65
1:E:360:LEU:O	1:E:360:LEU:HD23	1.96	0.65
1:E:381:ILE:HG23	1:E:420:ILE:HB	1.79	0.65
1:E:488:ARG:HB3	1:E:491:PHE:O	1.97	0.65
1:I:371:ARG:HB3	1:I:389:ILE:HD13	1.74	0.65
1:I:376:PRO:CD	1:I:470:HIS:CD2	2.79	0.65
2:J:44:LEU:HB3	2:J:48:MET:HB3	1.78	0.65
1:K:231:LEU:CD2	1:K:237:TYR:HE2	2.09	0.65
1:K:243:VAL:HG11	1:K:263:LEU:HD21	1.77	0.65
1:K:360:LEU:O	1:K:360:LEU:HD23	1.96	0.65
1:M:14:ASP:OD2	1:O:142:ARG:NH2	2.29	0.65
1:O:101:MET:O	1:O:105:MET:CB	2.45	0.65
1:O:129:GLN:CB	1:O:130:PRO:HD3	2.19	0.65
1:Q:533:PRO:HA	1:Q:536:GLU:HB2	1.78	0.65
1:S:423:PRO:HG2	1:S:426:TYR:HE1	1.61	0.65
1:U:381:ILE:HG23	1:U:420:ILE:HB	1.79	0.65
1:U:463:LEU:HB2	1:U:467:PHE:HE1	1.56	0.65
1:U:488:ARG:HB3	1:U:491:PHE:O	1.97	0.65
1:W:381:ILE:HG23	1:W:420:ILE:HB	1.79	0.65
1:Y:164:VAL:O	1:Y:167:SER:HB2	1.96	0.65
1:Y:178:ILE:HG22	1:Y:241:LEU:CD2	2.01	0.65
1:Y:360:LEU:HD23	1:Y:360:LEU:O	1.96	0.65
1:a:101:MET:O	1:a:105:MET:CB	2.45	0.65
1:a:142:ARG:NH2	1:c:14:ASP:OD2	2.29	0.65
1:a:164:VAL:O	1:a:167:SER:HB2	1.96	0.65
1:a:360:LEU:O	1:a:360:LEU:HD23	1.96	0.65
1:a:411:VAL:O	1:a:411:VAL:HG12	1.97	0.65
1:e:101:MET:O	1:e:105:MET:CB	2.45	0.65
1:A:183:LEU:HD23	1:A:186:CYS:SG	2.31	0.64
2:B:44:LEU:HB3	2:B:48:MET:HB3	1.78	0.64
1:C:243:VAL:HG11	1:C:263:LEU:HD21	1.77	0.64
2:D:77:LEU:C	2:D:80:THR:HG22	2.22	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:D:105:LEU:HD11	2:Z:105:LEU:HD11	1.77	0.64
1:E:10:TYR:CE1	1:E:107:ILE:HD13	2.32	0.64
1:G:14:ASP:OD2	1:I:142:ARG:NH2	2.29	0.64
1:G:71:GLU:HA	1:G:71:GLU:OE1	1.97	0.64
1:G:423:PRO:HG2	1:G:426:TYR:HE1	1.61	0.64
1:I:166:LEU:HD23	1:I:167:SER:CA	2.26	0.64
1:I:183:LEU:HD23	1:I:186:CYS:SG	2.31	0.64
1:K:101:MET:O	1:K:105:MET:CB	2.45	0.64
1:K:241:LEU:HA	1:K:261:LYS:O	1.97	0.64
1:M:241:LEU:HA	1:M:261:LYS:O	1.97	0.64
1:M:405:LEU:HB3	1:M:411:VAL:CG1	2.22	0.64
1:M:424:SER:HA	1:M:427:LEU:CB	2.12	0.64
1:O:87:PHE:HE2	2:P:82:ARG:C	1.99	0.64
1:O:360:LEU:O	1:O:360:LEU:HD23	1.96	0.64
1:O:411:VAL:HG12	1:O:411:VAL:O	1.97	0.64
1:Q:423:PRO:HG2	1:Q:426:TYR:HE1	1.61	0.64
1:S:164:VAL:O	1:S:167:SER:HB2	1.96	0.64
1:S:376:PRO:CD	1:S:470:HIS:CD2	2.79	0.64
1:U:10:TYR:CE1	1:U:107:ILE:HD13	2.32	0.64
1:U:12:TYR:HD1	1:U:96:GLN:OE1	1.80	0.64
1:U:101:MET:O	1:U:105:MET:CB	2.45	0.64
1:U:318:THR:OG1	1:U:341:TRP:CH2	2.50	0.64
1:W:178:ILE:HG22	1:W:241:LEU:CD2	2.01	0.64
1:W:301:LEU:HD12	1:W:305:LEU:HB2	1.78	0.64
2:X:77:LEU:C	2:X:80:THR:HG22	2.22	0.64
1:Y:322:ARG:HH11	1:Y:322:ARG:HG3	1.60	0.64
1:Y:410:LEU:HD22	1:Y:427:LEU:CB	2.26	0.64
2:Z:85:THR:O	2:Z:86:ALA:C	2.41	0.64
1:c:241:LEU:HA	1:c:261:LYS:O	1.97	0.64
1:e:172:CYS:HG	1:e:176:PHE:HZ	0.80	0.64
1:e:241:LEU:HA	1:e:261:LYS:O	1.97	0.64
1:A:10:TYR:CE1	1:A:107:ILE:HD13	2.32	0.64
1:A:357:LEU:CD1	1:A:430:LYS:HZ3	2.03	0.64
1:C:71:GLU:HA	1:C:71:GLU:OE1	1.97	0.64
1:C:381:ILE:HG23	1:C:420:ILE:HB	1.79	0.64
1:E:101:MET:O	1:E:105:MET:CB	2.45	0.64
1:E:463:LEU:HB2	1:E:467:PHE:HE1	1.56	0.64
1:G:200:LEU:HD12	1:G:228:LEU:CD1	2.26	0.64
1:G:364:GLU:OE2	1:G:401:VAL:HG21	1.98	0.64
1:I:71:GLU:HA	1:I:71:GLU:OE1	1.97	0.64
1:I:360:LEU:O	1:I:360:LEU:HD23	1.96	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:411:VAL:HG12	1:I:411:VAL:O	1.97	0.64
1:K:376:PRO:CD	1:K:470:HIS:CD2	2.79	0.64
1:K:518:LEU:HD11	1:K:646:UNK:C	2.24	0.64
1:M:87:PHE:HE2	2:N:82:ARG:C	1.99	0.64
1:M:410:LEU:HD22	1:M:427:LEU:CB	2.26	0.64
2:P:85:THR:O	2:P:86:ALA:C	2.41	0.64
1:Q:164:VAL:O	1:Q:167:SER:HB2	1.96	0.64
2:R:85:THR:O	2:R:86:ALA:C	2.41	0.64
2:R:105:LEU:HD11	2:X:105:LEU:HD11	1.77	0.64
1:S:71:GLU:HA	1:S:71:GLU:OE1	1.97	0.64
1:S:382:PRO:CB	1:S:463:LEU:HD22	2.20	0.64
1:S:533:PRO:HA	1:S:536:GLU:HB2	1.77	0.64
1:U:360:LEU:HD23	1:U:360:LEU:O	1.96	0.64
1:W:243:VAL:HG11	1:W:263:LEU:HD21	1.77	0.64
1:W:462:TYR:CE2	1:W:494:PHE:CE1	2.85	0.64
2:b:43:ILE:HG12	2:b:89:LEU:HD23	1.78	0.64
1:c:199:LEU:HD11	1:c:242:LEU:HD13	1.79	0.64
1:c:405:LEU:HB3	1:c:411:VAL:CG1	2.22	0.64
2:d:43:ILE:HG12	2:d:89:LEU:HD23	1.78	0.64
1:e:360:LEU:O	1:e:360:LEU:HD23	1.96	0.64
1:A:166:LEU:HD23	1:A:167:SER:CA	2.26	0.64
1:A:216:ASN:CB	1:A:219:LEU:H	2.07	0.64
1:C:120:PHE:HE1	1:C:124:ASN:CB	2.04	0.64
1:C:462:TYR:CE2	1:C:494:PHE:CE1	2.85	0.64
1:E:295:ASP:O	1:E:298:LYS:CG	2.39	0.64
1:E:462:TYR:CE2	1:E:494:PHE:CE1	2.85	0.64
1:G:164:VAL:O	1:G:167:SER:HB2	1.96	0.64
1:G:376:PRO:CD	1:G:470:HIS:CD2	2.79	0.64
1:G:533:PRO:HA	1:G:536:GLU:HB2	1.77	0.64
1:I:10:TYR:CE1	1:I:107:ILE:HD13	2.32	0.64
1:I:216:ASN:CB	1:I:219:LEU:H	2.07	0.64
1:M:271:VAL:C	1:M:274:PHE:H	2.06	0.64
1:M:360:LEU:HD23	1:M:360:LEU:O	1.96	0.64
1:M:364:GLU:OE2	1:M:401:VAL:HG21	1.98	0.64
2:N:43:ILE:HG12	2:N:89:LEU:HD23	1.78	0.64
2:P:43:ILE:HG12	2:P:89:LEU:HD23	1.78	0.64
1:Q:322:ARG:HH11	1:Q:322:ARG:HG3	1.60	0.64
1:S:200:LEU:HD12	1:S:228:LEU:CD1	2.26	0.64
1:S:364:GLU:OE2	1:S:401:VAL:HG21	1.98	0.64
1:U:364:GLU:OE2	1:U:401:VAL:HG21	1.98	0.64
1:U:462:TYR:CE2	1:U:494:PHE:CE1	2.85	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:W:71:GLU:HA	1:W:71:GLU:OE1	1.97	0.64
1:Y:360:LEU:HD12	1:Y:365:TYR:HD1	1.62	0.64
1:Y:488:ARG:HB3	1:Y:491:PHE:O	1.97	0.64
1:Y:533:PRO:HA	1:Y:536:GLU:HB2	1.78	0.64
2:b:85:THR:O	2:b:86:ALA:C	2.41	0.64
1:c:87:PHE:HE2	2:d:82:ARG:C	1.99	0.64
1:c:364:GLU:OE2	1:c:401:VAL:HG21	1.98	0.64
1:c:410:LEU:HD22	1:c:427:LEU:CB	2.26	0.64
1:e:376:PRO:CD	1:e:470:HIS:CD2	2.79	0.64
1:A:71:GLU:HA	1:A:71:GLU:OE1	1.97	0.64
1:A:360:LEU:O	1:A:360:LEU:HD23	1.96	0.64
1:A:371:ARG:HB3	1:A:389:ILE:HD13	1.74	0.64
1:E:241:LEU:HA	1:E:261:LYS:O	1.97	0.64
1:E:364:GLU:OE2	1:E:401:VAL:HG21	1.98	0.64
1:K:183:LEU:HD23	1:K:186:CYS:SG	2.31	0.64
1:K:199:LEU:HD11	1:K:242:LEU:HD13	1.79	0.64
1:M:199:LEU:HD11	1:M:242:LEU:HD13	1.79	0.64
1:M:212:ASP:HB2	1:M:220:ARG:NH1	2.09	0.64
1:M:302:LEU:O	1:M:305:LEU:N	2.31	0.64
2:N:43:ILE:HG22	2:N:44:LEU:HG	1.78	0.64
1:O:381:ILE:HG23	1:O:420:ILE:HB	1.79	0.64
1:O:423:PRO:HG2	1:O:426:TYR:HE1	1.61	0.64
2:P:43:ILE:HG22	2:P:44:LEU:HG	1.77	0.64
1:Q:360:LEU:HD12	1:Q:365:TYR:HD1	1.62	0.64
1:Q:488:ARG:HB3	1:Q:491:PHE:O	1.97	0.64
1:U:241:LEU:HA	1:U:261:LYS:O	1.97	0.64
1:U:357:LEU:CG	1:U:430:LYS:HZ3	2.06	0.64
1:W:120:PHE:HE1	1:W:124:ASN:CB	2.04	0.64
1:W:295:ASP:O	1:W:298:LYS:CG	2.39	0.64
1:W:354:GLU:HG2	1:W:430:LYS:HZ2	1.63	0.64
1:a:129:GLN:CB	1:a:130:PRO:HD3	2.19	0.64
1:a:271:VAL:C	1:a:274:PHE:H	2.06	0.64
1:a:381:ILE:HG23	1:a:420:ILE:HB	1.79	0.64
2:b:43:ILE:HG22	2:b:44:LEU:HG	1.78	0.64
1:c:271:VAL:C	1:c:274:PHE:H	2.06	0.64
1:c:302:LEU:O	1:c:305:LEU:N	2.31	0.64
1:c:424:SER:HA	1:c:427:LEU:CB	2.12	0.64
1:e:183:LEU:HD23	1:e:186:CYS:SG	2.31	0.64
2:f:77:LEU:C	2:f:80:THR:HG22	2.22	0.64
2:f:85:THR:O	2:f:86:ALA:C	2.41	0.64
1:C:199:LEU:HD11	1:C:242:LEU:HD13	1.79	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:488:ARG:HB3	1:C:491:PHE:O	1.97	0.64
2:F:85:THR:O	2:F:86:ALA:C	2.41	0.64
1:G:382:PRO:CB	1:G:463:LEU:HD22	2.20	0.64
2:H:77:LEU:C	2:H:80:THR:HG22	2.22	0.64
1:K:172:CYS:HG	1:K:176:PHE:HZ	0.80	0.64
1:K:364:GLU:OE2	1:K:401:VAL:HG21	1.98	0.64
2:L:77:LEU:C	2:L:80:THR:HG22	2.22	0.64
2:L:85:THR:O	2:L:86:ALA:C	2.41	0.64
1:O:10:TYR:HD1	1:O:107:ILE:CD1	2.11	0.64
1:O:241:LEU:HA	1:O:261:LYS:O	1.97	0.64
1:O:271:VAL:C	1:O:274:PHE:H	2.06	0.64
1:Q:10:TYR:HD1	1:Q:107:ILE:CD1	2.11	0.64
1:U:183:LEU:CD2	1:U:186:CYS:HG	1.92	0.64
1:U:410:LEU:HA	1:U:423:PRO:CG	2.26	0.64
1:W:411:VAL:HG12	1:W:411:VAL:O	1.97	0.64
1:W:518:LEU:CD2	1:W:646:UNK:C	2.52	0.64
1:Y:10:TYR:HD1	1:Y:107:ILE:CD1	2.11	0.64
1:Y:87:PHE:HD1	1:Y:88:LEU:CD1	2.09	0.64
1:a:10:TYR:HD1	1:a:107:ILE:CD1	2.11	0.64
1:a:364:GLU:OE2	1:a:401:VAL:HG21	1.98	0.64
1:c:12:TYR:HD1	1:c:96:GLN:OE1	1.80	0.64
1:c:360:LEU:O	1:c:360:LEU:HD23	1.96	0.64
2:d:43:ILE:HG22	2:d:44:LEU:HG	1.78	0.64
1:e:199:LEU:HD11	1:e:242:LEU:HD13	1.79	0.64
1:e:518:LEU:HD11	1:e:646:UNK:C	2.24	0.64
2:f:81:GLN:HE21	2:f:81:GLN:CA	2.04	0.64
1:A:302:LEU:O	1:A:305:LEU:N	2.31	0.64
1:C:10:TYR:HD1	1:C:107:ILE:CD1	2.11	0.64
1:C:12:TYR:CD2	1:C:77:VAL:HG11	2.30	0.64
1:C:35:MET:HG3	1:C:39:ILE:CG2	2.28	0.64
1:C:318:THR:OG1	1:C:341:TRP:CH2	2.50	0.64
1:E:166:LEU:HD23	1:E:167:SER:CA	2.26	0.64
1:E:221:ILE:HG23	1:E:222:HIS:N	2.13	0.64
1:E:410:LEU:HA	1:E:423:PRO:CG	2.26	0.64
1:E:411:VAL:HG12	1:E:411:VAL:O	1.97	0.64
1:G:221:ILE:HG23	1:G:222:HIS:N	2.13	0.64
1:G:301:LEU:HD12	1:G:305:LEU:HB2	1.78	0.64
1:I:302:LEU:O	1:I:305:LEU:N	2.31	0.64
1:K:381:ILE:HG23	1:K:420:ILE:HB	1.79	0.64
1:M:12:TYR:HD1	1:M:96:GLN:OE1	1.80	0.64
1:M:200:LEU:HD12	1:M:228:LEU:CD1	2.26	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:N:44:LEU:HB3	2:N:48:MET:HB3	1.78	0.64
1:O:166:LEU:HD23	1:O:167:SER:CA	2.26	0.64
1:O:318:THR:OG1	1:O:341:TRP:CH2	2.50	0.64
1:O:364:GLU:OE2	1:O:401:VAL:HG21	1.98	0.64
1:Q:87:PHE:HD1	1:Q:88:LEU:CD1	2.09	0.64
1:S:221:ILE:HG23	1:S:222:HIS:N	2.13	0.64
2:T:77:LEU:C	2:T:80:THR:HG22	2.22	0.64
1:U:221:ILE:HG23	1:U:222:HIS:N	2.13	0.64
2:V:85:THR:O	2:V:86:ALA:C	2.41	0.64
1:W:10:TYR:HD1	1:W:107:ILE:CD1	2.11	0.64
1:W:35:MET:HG3	1:W:39:ILE:CG2	2.28	0.64
1:W:199:LEU:HD11	1:W:242:LEU:HD13	1.79	0.64
1:W:488:ARG:HB3	1:W:491:PHE:O	1.97	0.64
1:Y:12:TYR:HD1	1:Y:96:GLN:OE1	1.80	0.64
1:a:166:LEU:HD23	1:a:167:SER:CA	2.26	0.64
1:a:318:THR:OG1	1:a:341:TRP:CH2	2.50	0.64
1:a:423:PRO:HG2	1:a:426:TYR:HE1	1.61	0.64
1:c:212:ASP:HB2	1:c:220:ARG:NH1	2.09	0.64
1:e:364:GLU:OE2	1:e:401:VAL:HG21	1.98	0.64
1:e:381:ILE:HG23	1:e:420:ILE:HB	1.79	0.64
1:e:423:PRO:HG2	1:e:426:TYR:HE1	1.61	0.64
1:A:88:LEU:HD12	1:A:88:LEU:N	2.12	0.64
1:A:188:SER:H	1:A:191:THR:HG21	1.63	0.64
1:A:221:ILE:HG23	1:A:222:HIS:N	2.13	0.64
1:C:411:VAL:HG12	1:C:411:VAL:O	1.97	0.64
1:G:462:TYR:CE2	1:G:494:PHE:CE1	2.85	0.64
1:G:463:LEU:HB2	1:G:467:PHE:HE1	1.56	0.64
1:M:387:SER:HA	1:M:398:VAL:HG11	1.80	0.64
1:M:411:VAL:HG12	1:M:411:VAL:O	1.97	0.64
1:O:12:TYR:HD1	1:O:96:GLN:OE1	1.80	0.64
1:O:188:SER:H	1:O:191:THR:HG21	1.63	0.64
1:Q:12:TYR:HD1	1:Q:96:GLN:OE1	1.80	0.64
1:Q:71:GLU:OE1	1:Q:71:GLU:HA	1.97	0.64
1:Q:381:ILE:HG23	1:Q:420:ILE:HB	1.79	0.64
1:Q:462:TYR:CE2	1:Q:494:PHE:CE1	2.85	0.64
1:S:101:MET:O	1:S:105:MET:CB	2.45	0.64
1:S:462:TYR:CE2	1:S:494:PHE:CE1	2.85	0.64
1:U:295:ASP:O	1:U:298:LYS:CG	2.39	0.64
1:W:12:TYR:CD2	1:W:77:VAL:HG11	2.30	0.64
1:W:318:THR:OG1	1:W:341:TRP:CH2	2.50	0.64
1:Y:71:GLU:OE1	1:Y:71:GLU:HA	1.97	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Y:369:PHE:HZ	1:Y:410:LEU:CD2	2.06	0.64
1:Y:462:TYR:CE2	1:Y:494:PHE:CE1	2.85	0.64
1:a:188:SER:H	1:a:191:THR:HG21	1.63	0.64
1:a:241:LEU:HA	1:a:261:LYS:O	1.97	0.64
1:c:10:TYR:HD1	1:c:107:ILE:CD1	2.11	0.64
1:c:411:VAL:HG12	1:c:411:VAL:O	1.97	0.64
2:d:44:LEU:HB3	2:d:48:MET:HB3	1.78	0.64
1:e:88:LEU:HD12	1:e:88:LEU:N	2.12	0.64
1:e:410:LEU:O	1:e:423:PRO:HG3	1.98	0.64
1:A:149:ILE:HG23	1:A:283:ILE:HG22	0.68	0.64
1:C:302:LEU:O	1:C:305:LEU:N	2.31	0.64
1:C:360:LEU:HD12	1:C:365:TYR:HD1	1.62	0.64
2:D:82:ARG:HG3	2:D:82:ARG:NH1	2.00	0.64
1:E:357:LEU:CG	1:E:430:LYS:HZ3	2.06	0.64
1:G:10:TYR:CE1	1:G:107:ILE:HD13	2.32	0.64
1:G:35:MET:HG3	1:G:39:ILE:CG2	2.28	0.64
1:G:318:THR:OG1	1:G:341:TRP:CH2	2.50	0.64
1:I:88:LEU:HD12	1:I:88:LEU:N	2.12	0.64
1:I:188:SER:H	1:I:191:THR:HG21	1.63	0.64
1:I:221:ILE:HG23	1:I:222:HIS:N	2.13	0.64
1:I:364:GLU:OE2	1:I:401:VAL:HG21	1.98	0.64
1:K:35:MET:HG3	1:K:39:ILE:CG2	2.28	0.64
1:K:290:MET:O	1:K:291:THR:C	2.38	0.64
1:K:410:LEU:O	1:K:423:PRO:HG3	1.98	0.64
1:M:10:TYR:HD1	1:M:107:ILE:CD1	2.11	0.64
1:M:533:PRO:HA	1:M:536:GLU:HB2	1.78	0.64
1:O:88:LEU:HD12	1:O:88:LEU:N	2.12	0.64
1:S:35:MET:HG3	1:S:39:ILE:CG2	2.28	0.64
1:S:301:LEU:HD12	1:S:305:LEU:HB2	1.78	0.64
1:U:35:MET:HG3	1:U:39:ILE:CG2	2.28	0.64
1:U:166:LEU:HD23	1:U:167:SER:CA	2.26	0.64
1:U:411:VAL:O	1:U:411:VAL:HG12	1.97	0.64
2:X:82:ARG:HG3	2:X:82:ARG:NH1	2.00	0.64
1:Y:192:VAL:CB	1:Y:221:ILE:HD12	2.21	0.64
1:Y:199:LEU:HD11	1:Y:242:LEU:HD13	1.79	0.64
1:a:12:TYR:HD1	1:a:96:GLN:OE1	1.80	0.64
1:a:369:PHE:HZ	1:a:410:LEU:CD2	2.06	0.64
1:c:387:SER:HA	1:c:398:VAL:HG11	1.80	0.64
1:c:533:PRO:HA	1:c:536:GLU:HB2	1.78	0.64
1:e:462:TYR:CE2	1:e:494:PHE:CE1	2.85	0.64
1:A:327:ILE:CD1	1:A:341:TRP:HZ3	1.89	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:364:GLU:OE2	1:A:401:VAL:HG21	1.98	0.64
1:A:381:ILE:HG23	1:A:420:ILE:HB	1.79	0.64
1:A:488:ARG:HB3	1:A:491:PHE:O	1.97	0.64
2:B:85:THR:O	2:B:86:ALA:C	2.41	0.64
1:E:10:TYR:HD1	1:E:107:ILE:CD1	2.11	0.64
1:E:35:MET:HG3	1:E:39:ILE:CG2	2.28	0.64
1:E:183:LEU:CD2	1:E:186:CYS:HG	1.92	0.64
1:E:248:GLN:HA	1:E:248:GLN:OE1	1.98	0.64
1:E:882:UNK:C	1:E:883:UNK:CA	2.74	0.64
1:G:12:TYR:CD2	1:G:77:VAL:HG11	2.30	0.64
1:G:101:MET:O	1:G:105:MET:CB	2.45	0.64
1:G:410:LEU:C	1:G:423:PRO:HD3	2.23	0.64
1:I:381:ILE:HG23	1:I:420:ILE:HB	1.79	0.64
1:I:488:ARG:HB3	1:I:491:PHE:O	1.97	0.64
2:J:85:THR:O	2:J:86:ALA:C	2.41	0.64
1:K:88:LEU:HD12	1:K:88:LEU:N	2.12	0.64
1:K:188:SER:H	1:K:191:THR:HG21	1.63	0.64
1:K:423:PRO:HG2	1:K:426:TYR:HE1	1.61	0.64
1:K:462:TYR:CE2	1:K:494:PHE:CE1	2.85	0.64
2:L:81:GLN:HE21	2:L:81:GLN:CA	2.04	0.64
1:M:462:TYR:CE2	1:M:494:PHE:CE1	2.85	0.64
1:Q:35:MET:HG3	1:Q:39:ILE:CG2	2.28	0.64
1:S:12:TYR:CD2	1:S:77:VAL:HG11	2.30	0.64
1:S:318:THR:OG1	1:S:341:TRP:CH2	2.50	0.64
1:S:410:LEU:C	1:S:423:PRO:HD3	2.23	0.64
1:U:10:TYR:HD1	1:U:107:ILE:CD1	2.11	0.64
1:U:248:GLN:HA	1:U:248:GLN:OE1	1.98	0.64
1:U:302:LEU:O	1:U:305:LEU:N	2.31	0.64
1:U:882:UNK:C	1:U:883:UNK:CA	2.74	0.64
1:W:302:LEU:O	1:W:305:LEU:N	2.31	0.64
1:W:374:VAL:HG21	1:W:375:PHE:CE1	2.32	0.64
1:W:410:LEU:HA	1:W:423:PRO:CG	2.26	0.64
1:Y:35:MET:HG3	1:Y:39:ILE:CG2	2.28	0.64
1:Y:302:LEU:O	1:Y:305:LEU:N	2.31	0.64
1:Y:381:ILE:HG23	1:Y:420:ILE:HB	1.79	0.64
2:Z:77:LEU:C	2:Z:80:THR:HG22	2.22	0.64
2:Z:82:ARG:HG3	2:Z:82:ARG:NH1	2.00	0.64
1:c:200:LEU:HD12	1:c:228:LEU:CD1	2.26	0.64
1:c:248:GLN:HA	1:c:248:GLN:OE1	1.98	0.64
1:e:35:MET:HG3	1:e:39:ILE:CG2	2.28	0.64
1:e:360:LEU:CG	1:e:365:TYR:CB	2.48	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:e:387:SER:HA	1:e:398:VAL:HG11	1.80	0.64
1:e:488:ARG:HB3	1:e:491:PHE:O	1.97	0.64
1:A:462:TYR:CE2	1:A:494:PHE:CE1	2.85	0.64
1:C:12:TYR:HD1	1:C:96:GLN:OE1	1.80	0.64
1:E:73:VAL:O	1:E:76:PHE:CB	2.45	0.64
1:E:302:LEU:O	1:E:305:LEU:N	2.31	0.64
2:F:77:LEU:C	2:F:80:THR:HG22	2.22	0.64
1:I:87:PHE:CE2	2:J:82:ARG:C	2.75	0.64
1:K:387:SER:HA	1:K:398:VAL:HG11	1.80	0.64
1:K:411:VAL:HG12	1:K:411:VAL:O	1.97	0.64
1:K:488:ARG:HB3	1:K:491:PHE:O	1.97	0.64
1:M:178:ILE:HG23	1:M:241:LEU:CD2	2.27	0.64
1:M:248:GLN:HA	1:M:248:GLN:OE1	1.98	0.64
1:M:488:ARG:HB3	1:M:491:PHE:O	1.97	0.64
1:O:369:PHE:HZ	1:O:410:LEU:CD2	2.06	0.64
1:Q:199:LEU:HD11	1:Q:242:LEU:HD13	1.79	0.64
1:Q:302:LEU:O	1:Q:305:LEU:N	2.31	0.64
1:Q:369:PHE:HZ	1:Q:410:LEU:CD2	2.06	0.64
2:R:77:LEU:C	2:R:80:THR:HG22	2.22	0.64
2:R:82:ARG:HG3	2:R:82:ARG:NH1	2.00	0.64
1:S:10:TYR:CE1	1:S:107:ILE:HD13	2.32	0.64
1:S:410:LEU:HA	1:S:423:PRO:CG	2.26	0.64
1:S:463:LEU:HB2	1:S:467:PHE:HE1	1.56	0.64
2:V:77:LEU:C	2:V:80:THR:HG22	2.22	0.64
1:W:88:LEU:HD12	1:W:88:LEU:N	2.12	0.64
1:W:221:ILE:HG23	1:W:222:HIS:N	2.13	0.64
1:W:360:LEU:HD12	1:W:365:TYR:HD1	1.62	0.64
2:X:85:THR:O	2:X:86:ALA:C	2.41	0.64
1:Y:271:VAL:C	1:Y:274:PHE:H	2.06	0.64
1:a:88:LEU:HD12	1:a:88:LEU:N	2.12	0.64
1:a:488:ARG:HB3	1:a:491:PHE:O	1.97	0.64
1:c:166:LEU:HD23	1:c:167:SER:CA	2.26	0.64
1:c:462:TYR:CE2	1:c:494:PHE:CE1	2.85	0.64
1:e:188:SER:H	1:e:191:THR:HG21	1.63	0.64
1:A:35:MET:HG3	1:A:39:ILE:CG2	2.28	0.63
1:A:87:PHE:CE2	2:B:82:ARG:C	2.75	0.63
1:A:229:ARG:HG2	1:A:229:ARG:NH2	2.13	0.63
1:A:410:LEU:C	1:A:423:PRO:HD3	2.23	0.63
1:C:88:LEU:HD12	1:C:88:LEU:N	2.12	0.63
1:C:221:ILE:HG23	1:C:222:HIS:N	2.13	0.63
1:C:374:VAL:HG21	1:C:375:PHE:CE1	2.32	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:410:LEU:HA	1:C:423:PRO:CG	2.26	0.63
2:D:85:THR:O	2:D:86:ALA:C	2.41	0.63
1:E:229:ARG:HG2	1:E:229:ARG:NH2	2.13	0.63
1:E:410:LEU:C	1:E:423:PRO:HD3	2.23	0.63
2:F:105:LEU:HD11	2:b:105:LEU:HD11	1.77	0.63
1:G:410:LEU:CD2	1:G:426:TYR:CD1	2.80	0.63
1:G:410:LEU:HA	1:G:423:PRO:CG	2.26	0.63
1:I:149:ILE:HG23	1:I:283:ILE:HG22	0.68	0.63
1:I:229:ARG:HG2	1:I:229:ARG:NH2	2.13	0.63
1:I:410:LEU:C	1:I:423:PRO:HD3	2.23	0.63
1:K:71:GLU:HA	1:K:71:GLU:OE1	1.97	0.63
1:K:271:VAL:C	1:K:274:PHE:H	2.06	0.63
1:M:101:MET:O	1:M:105:MET:CB	2.45	0.63
1:O:302:LEU:O	1:O:305:LEU:N	2.31	0.63
1:O:387:SER:HA	1:O:398:VAL:HG11	1.80	0.63
1:O:462:TYR:CE2	1:O:494:PHE:CE1	2.85	0.63
1:O:488:ARG:HB3	1:O:491:PHE:O	1.97	0.63
2:P:105:LEU:HD11	2:V:105:LEU:HD11	1.77	0.63
1:Q:153:LEU:HD22	1:Q:267:ARG:HB2	1.80	0.63
1:Q:248:GLN:HA	1:Q:248:GLN:OE1	1.98	0.63
1:Q:271:VAL:C	1:Q:274:PHE:H	2.06	0.63
2:T:85:THR:O	2:T:86:ALA:C	2.41	0.63
1:U:229:ARG:HG2	1:U:229:ARG:NH2	2.13	0.63
1:Y:364:GLU:OE2	1:Y:401:VAL:HG21	1.98	0.63
1:a:387:SER:HA	1:a:398:VAL:HG11	1.80	0.63
1:c:381:ILE:HG23	1:c:420:ILE:HB	1.79	0.63
1:c:488:ARG:HB3	1:c:491:PHE:O	1.97	0.63
1:e:10:TYR:HD1	1:e:107:ILE:CD1	2.11	0.63
1:e:290:MET:O	1:e:291:THR:C	2.38	0.63
1:e:411:VAL:O	1:e:411:VAL:HG12	1.97	0.63
1:A:387:SER:HA	1:A:398:VAL:HG11	1.80	0.63
1:C:387:SER:HA	1:C:398:VAL:HG11	1.80	0.63
1:E:12:TYR:CD2	1:E:77:VAL:HG11	2.30	0.63
2:H:85:THR:O	2:H:86:ALA:C	2.41	0.63
1:I:35:MET:HG3	1:I:39:ILE:CG2	2.28	0.63
1:I:387:SER:HA	1:I:398:VAL:HG11	1.80	0.63
1:I:462:TYR:CE2	1:I:494:PHE:CE1	2.85	0.63
1:I:463:LEU:HB2	1:I:467:PHE:HE1	1.56	0.63
1:K:10:TYR:HD1	1:K:107:ILE:CD1	2.11	0.63
1:K:229:ARG:HG2	1:K:229:ARG:NH2	2.13	0.63
1:M:166:LEU:HD23	1:M:167:SER:CA	2.26	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:188:SER:H	1:M:191:THR:HG21	1.63	0.63
1:M:381:ILE:HG23	1:M:420:ILE:HB	1.79	0.63
1:O:229:ARG:HG2	1:O:229:ARG:NH2	2.13	0.63
1:Q:10:TYR:CE1	1:Q:107:ILE:HD13	2.32	0.63
1:Q:192:VAL:CB	1:Q:221:ILE:HD12	2.21	0.63
1:Q:364:GLU:OE2	1:Q:401:VAL:HG21	1.98	0.63
1:Q:410:LEU:O	1:Q:423:PRO:HG3	1.98	0.63
1:S:410:LEU:CD2	1:S:426:TYR:CD1	2.80	0.63
1:U:12:TYR:CD2	1:U:77:VAL:HG11	2.30	0.63
1:U:73:VAL:O	1:U:76:PHE:CB	2.45	0.63
1:U:410:LEU:C	1:U:423:PRO:HD3	2.23	0.63
1:W:12:TYR:HD1	1:W:96:GLN:OE1	1.80	0.63
1:W:364:GLU:OE2	1:W:401:VAL:HG21	1.98	0.63
1:W:387:SER:HA	1:W:398:VAL:HG11	1.80	0.63
1:W:488:ARG:HH11	1:W:488:ARG:HG2	1.63	0.63
1:Y:10:TYR:CE1	1:Y:107:ILE:HD13	2.32	0.63
1:Y:153:LEU:HD22	1:Y:267:ARG:HB2	1.80	0.63
1:Y:248:GLN:HA	1:Y:248:GLN:OE1	1.98	0.63
1:Y:410:LEU:O	1:Y:423:PRO:HG3	1.98	0.63
1:Y:495:ARG:HH22	1:Y:549:ILE:HG23	1.63	0.63
1:a:302:LEU:O	1:a:305:LEU:N	2.31	0.63
1:a:462:TYR:CE2	1:a:494:PHE:CE1	2.85	0.63
1:c:101:MET:O	1:c:105:MET:CB	2.45	0.63
1:c:178:ILE:HG23	1:c:241:LEU:CD2	2.27	0.63
1:e:302:LEU:O	1:e:305:LEU:N	2.31	0.63
1:C:241:LEU:HA	1:C:261:LYS:O	1.97	0.63
1:C:488:ARG:HH11	1:C:488:ARG:HG2	1.63	0.63
1:G:10:TYR:HD1	1:G:107:ILE:CD1	2.11	0.63
1:G:87:PHE:CE2	2:H:82:ARG:C	2.75	0.63
1:K:10:TYR:CE1	1:K:107:ILE:HD13	2.32	0.63
1:K:248:GLN:OE1	1:K:248:GLN:HA	1.98	0.63
1:K:302:LEU:O	1:K:305:LEU:N	2.31	0.63
1:O:35:MET:HG3	1:O:39:ILE:CG2	2.28	0.63
1:Q:410:LEU:C	1:Q:423:PRO:HD3	2.23	0.63
1:Q:495:ARG:HH22	1:Q:549:ILE:HG23	1.63	0.63
1:S:10:TYR:HD1	1:S:107:ILE:CD1	2.11	0.63
1:S:248:GLN:HA	1:S:248:GLN:OE1	1.98	0.63
1:W:229:ARG:HG2	1:W:229:ARG:NH2	2.13	0.63
1:W:241:LEU:HA	1:W:261:LYS:O	1.97	0.63
1:W:410:LEU:C	1:W:423:PRO:HD3	2.23	0.63
1:W:495:ARG:HH22	1:W:549:ILE:HG23	1.63	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Y:248:GLN:C	1:Y:249:ASN:ND2	2.57	0.63
1:Y:318:THR:OG1	1:Y:341:TRP:CH2	2.50	0.63
1:a:71:GLU:OE1	1:a:71:GLU:HA	1.97	0.63
1:a:229:ARG:HG2	1:a:229:ARG:NH2	2.13	0.63
1:a:279:THR:C	1:a:280:THR:HG22	2.10	0.63
1:c:71:GLU:HA	1:c:71:GLU:OE1	1.97	0.63
1:c:354:GLU:HG2	1:c:430:LYS:HZ2	1.63	0.63
1:e:71:GLU:OE1	1:e:71:GLU:HA	1.97	0.63
1:e:229:ARG:HG2	1:e:229:ARG:NH2	2.13	0.63
1:e:248:GLN:HA	1:e:248:GLN:OE1	1.98	0.63
1:e:271:VAL:C	1:e:274:PHE:H	2.06	0.63
1:A:10:TYR:HD1	1:A:107:ILE:CD1	2.11	0.63
1:C:229:ARG:HG2	1:C:229:ARG:NH2	2.13	0.63
1:C:364:GLU:OE2	1:C:401:VAL:HG21	1.98	0.63
1:C:410:LEU:C	1:C:423:PRO:HD3	2.23	0.63
1:C:495:ARG:HH22	1:C:549:ILE:HG23	1.63	0.63
1:E:199:LEU:HD11	1:E:242:LEU:HD13	1.79	0.63
1:G:248:GLN:OE1	1:G:248:GLN:HA	1.98	0.63
1:I:327:ILE:CD1	1:I:341:TRP:HZ3	1.89	0.63
1:K:221:ILE:HG23	1:K:222:HIS:N	2.13	0.63
1:M:410:LEU:O	1:M:423:PRO:HG3	1.98	0.63
1:O:557:LYS:HE3	1:O:557:LYS:HA	1.81	0.63
1:Q:200:LEU:HD12	1:Q:228:LEU:CD1	2.26	0.63
1:Q:216:ASN:CB	1:Q:219:LEU:H	2.07	0.63
1:Q:248:GLN:C	1:Q:249:ASN:ND2	2.57	0.63
1:Q:318:THR:OG1	1:Q:341:TRP:CH2	2.50	0.63
1:S:87:PHE:CE2	2:T:82:ARG:C	2.75	0.63
1:S:153:LEU:HD22	1:S:267:ARG:HB2	1.80	0.63
1:U:199:LEU:HD11	1:U:242:LEU:HD13	1.79	0.63
1:U:488:ARG:HH11	1:U:488:ARG:HG2	1.63	0.63
1:W:271:VAL:C	1:W:274:PHE:H	2.06	0.63
1:W:369:PHE:HZ	1:W:410:LEU:CD2	2.06	0.63
1:W:463:LEU:HB2	1:W:467:PHE:HE1	1.56	0.63
1:Y:410:LEU:C	1:Y:423:PRO:HD3	2.23	0.63
1:a:35:MET:HG3	1:a:39:ILE:CG2	2.28	0.63
1:c:10:TYR:CE1	1:c:107:ILE:HD13	2.32	0.63
1:c:188:SER:H	1:c:191:THR:HG21	1.63	0.63
1:e:221:ILE:HG23	1:e:222:HIS:N	2.13	0.63
1:C:271:VAL:C	1:C:274:PHE:H	2.06	0.63
1:C:327:ILE:HG21	1:C:341:TRP:HE3	1.58	0.63
1:C:557:LYS:HE3	1:C:557:LYS:HA	1.81	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:200:LEU:HD12	1:E:228:LEU:CD1	2.26	0.63
1:E:557:LYS:HE3	1:E:557:LYS:HA	1.81	0.63
1:G:153:LEU:HD22	1:G:267:ARG:HB2	1.80	0.63
1:I:10:TYR:HD1	1:I:107:ILE:CD1	2.11	0.63
1:M:10:TYR:CE1	1:M:107:ILE:HD13	2.32	0.63
1:M:71:GLU:HA	1:M:71:GLU:OE1	1.97	0.63
1:O:71:GLU:HA	1:O:71:GLU:OE1	1.97	0.63
1:O:153:LEU:HD22	1:O:267:ARG:HB2	1.80	0.63
1:O:248:GLN:C	1:O:249:ASN:ND2	2.57	0.63
1:W:557:LYS:HE3	1:W:557:LYS:HA	1.81	0.63
1:Y:216:ASN:CB	1:Y:219:LEU:H	2.07	0.63
1:a:153:LEU:HD22	1:a:267:ARG:HB2	1.80	0.63
1:a:248:GLN:C	1:a:249:ASN:ND2	2.57	0.63
1:a:495:ARG:HH22	1:a:549:ILE:HG23	1.63	0.63
1:a:557:LYS:HE3	1:a:557:LYS:HA	1.81	0.63
1:c:410:LEU:O	1:c:423:PRO:HG3	1.98	0.63
1:c:557:LYS:HE3	1:c:557:LYS:HA	1.81	0.63
1:e:10:TYR:CE1	1:e:107:ILE:HD13	2.32	0.63
1:A:199:LEU:HD11	1:A:242:LEU:HD13	1.79	0.63
1:A:463:LEU:HB2	1:A:467:PHE:HE1	1.56	0.63
1:C:10:TYR:CE1	1:C:107:ILE:HD13	2.32	0.63
1:C:52:LYS:HE2	1:C:53:ASP:OD2	1.99	0.63
1:C:232:LEU:HD23	1:C:260:CYS:SG	2.38	0.63
1:C:463:LEU:HB2	1:C:467:PHE:HE1	1.56	0.63
1:E:188:SER:H	1:E:191:THR:HG21	1.63	0.63
1:E:488:ARG:HH11	1:E:488:ARG:HG2	1.63	0.63
1:G:295:ASP:O	1:G:298:LYS:CG	2.39	0.63
1:I:271:VAL:C	1:I:274:PHE:H	2.06	0.63
1:K:87:PHE:CE2	2:L:82:ARG:C	2.75	0.63
1:M:557:LYS:HE3	1:M:557:LYS:HA	1.81	0.63
1:O:495:ARG:HH22	1:O:549:ILE:HG23	1.63	0.63
1:Q:216:ASN:C	1:Q:218:LYS:H	2.07	0.63
1:U:102:MET:CE	1:U:172:CYS:SG	2.78	0.63
1:U:410:LEU:O	1:U:423:PRO:HG3	1.98	0.63
1:U:557:LYS:HE3	1:U:557:LYS:HA	1.81	0.63
1:W:232:LEU:HD23	1:W:260:CYS:SG	2.38	0.63
1:W:248:GLN:C	1:W:249:ASN:ND2	2.57	0.63
1:Y:87:PHE:HE2	2:Z:82:ARG:C	1.99	0.63
1:a:10:TYR:CE1	1:a:107:ILE:HD13	2.32	0.63
1:c:232:LEU:HD23	1:c:260:CYS:SG	2.38	0.63
1:e:87:PHE:CE2	2:f:82:ARG:C	2.75	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:153:LEU:HD22	1:C:267:ARG:HB2	1.80	0.63
1:C:248:GLN:C	1:C:249:ASN:ND2	2.57	0.63
1:C:369:PHE:HZ	1:C:410:LEU:CD2	2.06	0.63
1:E:87:PHE:HE2	2:F:82:ARG:C	1.99	0.63
1:E:410:LEU:O	1:E:423:PRO:HG3	1.98	0.63
1:E:423:PRO:HG2	1:E:426:TYR:HE1	1.61	0.63
1:G:410:LEU:O	1:G:423:PRO:HG3	1.98	0.63
1:K:19:PHE:HZ	1:K:92:ILE:CG1	1.90	0.63
1:K:52:LYS:HE2	1:K:53:ASP:OD2	1.99	0.63
1:M:365:TYR:CD1	1:M:405:LEU:HD22	2.23	0.63
1:M:410:LEU:C	1:M:423:PRO:HD3	2.23	0.63
1:O:10:TYR:CE1	1:O:107:ILE:HD13	2.32	0.63
1:O:279:THR:C	1:O:280:THR:HG22	2.10	0.63
1:S:410:LEU:O	1:S:423:PRO:HG3	1.98	0.63
1:U:188:SER:H	1:U:191:THR:HG21	1.63	0.63
1:W:10:TYR:CE1	1:W:107:ILE:HD13	2.32	0.63
1:W:52:LYS:HE2	1:W:53:ASP:OD2	1.99	0.63
1:W:171:GLN:O	1:W:174:MET:N	2.32	0.63
1:Y:200:LEU:HD12	1:Y:228:LEU:CD1	2.26	0.63
1:Y:488:ARG:HH11	1:Y:488:ARG:HG2	1.63	0.63
2:d:85:THR:O	2:d:86:ALA:C	2.41	0.63
1:e:52:LYS:HE2	1:e:53:ASP:OD2	1.99	0.63
1:A:153:LEU:HD22	1:A:267:ARG:HB2	1.80	0.63
1:A:271:VAL:C	1:A:274:PHE:H	2.06	0.63
1:C:171:GLN:O	1:C:174:MET:N	2.32	0.63
1:E:420:ILE:HG22	1:E:422:ILE:HD11	1.81	0.63
1:G:199:LEU:HD11	1:G:242:LEU:HD13	1.79	0.63
1:G:882:UNK:C	1:G:883:UNK:CA	2.74	0.63
1:I:153:LEU:HD22	1:I:267:ARG:HB2	1.80	0.63
1:I:199:LEU:HD11	1:I:242:LEU:HD13	1.79	0.63
1:I:248:GLN:C	1:I:249:ASN:ND2	2.57	0.63
1:K:183:LEU:CD2	1:K:186:CYS:HG	1.86	0.63
1:Q:488:ARG:HH11	1:Q:488:ARG:HG2	1.63	0.63
1:S:420:ILE:HG22	1:S:422:ILE:HD11	1.81	0.63
1:U:178:ILE:HG23	1:U:241:LEU:CD2	2.27	0.63
1:U:200:LEU:HD12	1:U:228:LEU:CD1	2.26	0.63
1:U:420:ILE:HG22	1:U:422:ILE:HD11	1.81	0.63
1:Y:216:ASN:C	1:Y:218:LYS:H	2.07	0.63
1:a:232:LEU:HD23	1:a:260:CYS:SG	2.38	0.63
1:c:365:TYR:CD1	1:c:405:LEU:HD22	2.23	0.63
1:c:410:LEU:C	1:c:423:PRO:HD3	2.23	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:248:GLN:C	1:A:249:ASN:ND2	2.57	0.63
1:A:360:LEU:HD12	1:A:365:TYR:HD1	1.62	0.63
1:A:374:VAL:HG21	1:A:375:PHE:CE1	2.32	0.63
1:G:357:LEU:CG	1:G:430:LYS:HZ3	2.09	0.63
1:G:420:ILE:HG22	1:G:422:ILE:HD11	1.81	0.63
1:M:232:LEU:HD23	1:M:260:CYS:SG	2.38	0.63
1:M:360:LEU:HD12	1:M:365:TYR:HD1	1.62	0.63
2:N:85:THR:O	2:N:86:ALA:C	2.41	0.63
1:O:301:LEU:HD12	1:O:301:LEU:O	1.99	0.63
1:S:199:LEU:HD11	1:S:242:LEU:HD13	1.79	0.63
1:S:381:ILE:HG23	1:S:420:ILE:HB	1.79	0.63
1:S:387:SER:HA	1:S:398:VAL:HG11	1.80	0.63
1:U:271:VAL:C	1:U:274:PHE:H	2.06	0.63
1:U:354:GLU:HG2	1:U:430:LYS:HZ2	1.64	0.63
1:W:153:LEU:HD22	1:W:267:ARG:HB2	1.80	0.63
1:W:352:ILE:HD12	1:W:352:ILE:H	1.64	0.63
1:Y:352:ILE:HD12	1:Y:352:ILE:H	1.64	0.63
1:a:301:LEU:HD12	1:a:301:LEU:O	1.99	0.63
1:A:195:MET:HE1	1:A:198:LYS:CE	2.29	0.62
1:A:420:ILE:HG22	1:A:422:ILE:HD11	1.81	0.62
1:C:352:ILE:HD12	1:C:352:ILE:H	1.64	0.62
1:E:336:ALA:HB3	1:E:340:ASN:OD1	1.99	0.62
1:E:354:GLU:HG2	1:E:430:LYS:HZ2	1.64	0.62
1:G:88:LEU:HD12	1:G:88:LEU:N	2.12	0.62
1:G:232:LEU:HD23	1:G:260:CYS:SG	2.38	0.62
1:G:381:ILE:HG23	1:G:420:ILE:HB	1.79	0.62
1:G:387:SER:HA	1:G:398:VAL:HG11	1.80	0.62
2:H:15:ARG:O	2:H:19:ARG:HB2	1.99	0.62
2:L:15:ARG:O	2:L:19:ARG:HB2	1.99	0.62
1:M:35:MET:HG3	1:M:39:ILE:CG2	2.28	0.62
1:M:52:LYS:HE2	1:M:53:ASP:OD2	1.99	0.62
1:O:216:ASN:CB	1:O:219:LEU:H	2.07	0.62
1:O:232:LEU:HD23	1:O:260:CYS:SG	2.38	0.62
1:Q:52:LYS:HE2	1:Q:53:ASP:OD2	1.99	0.62
1:Q:87:PHE:HE2	2:R:82:ARG:C	1.99	0.62
1:S:157:LYS:CA	1:S:285:LEU:CD1	2.76	0.62
1:S:232:LEU:HD23	1:S:260:CYS:SG	2.38	0.62
1:S:248:GLN:C	1:S:249:ASN:ND2	2.57	0.62
1:S:295:ASP:O	1:S:298:LYS:CG	2.39	0.62
1:S:882:UNK:C	1:S:883:UNK:CA	2.74	0.62
2:T:15:ARG:O	2:T:19:ARG:HB2	1.99	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:U:153:LEU:HD22	1:U:267:ARG:HB2	1.80	0.62
1:U:336:ALA:HB3	1:U:340:ASN:OD1	1.99	0.62
1:U:423:PRO:HG2	1:U:426:TYR:HE1	1.61	0.62
1:Y:52:LYS:HE2	1:Y:53:ASP:OD2	1.99	0.62
1:a:87:PHE:HD1	1:a:88:LEU:CD1	2.08	0.62
1:a:216:ASN:CB	1:a:219:LEU:H	2.07	0.62
1:a:352:ILE:HD12	1:a:352:ILE:H	1.64	0.62
1:c:52:LYS:HE2	1:c:53:ASP:OD2	1.99	0.62
1:c:360:LEU:HD12	1:c:365:TYR:HD1	1.62	0.62
1:e:19:PHE:HZ	1:e:92:ILE:CG1	1.90	0.62
2:f:15:ARG:O	2:f:19:ARG:HB2	1.99	0.62
1:A:301:LEU:HD12	1:A:301:LEU:O	1.99	0.62
1:A:882:UNK:C	1:A:883:UNK:CA	2.74	0.62
1:C:73:VAL:O	1:C:76:PHE:CB	2.45	0.62
1:C:178:ILE:HG23	1:C:241:LEU:CD2	2.27	0.62
1:C:216:ASN:C	1:C:218:LYS:H	2.07	0.62
1:C:410:LEU:O	1:C:423:PRO:HG3	1.98	0.62
1:C:420:ILE:HG22	1:C:422:ILE:HD11	1.81	0.62
1:G:157:LYS:CA	1:G:285:LEU:CD1	2.76	0.62
1:G:248:GLN:C	1:G:249:ASN:ND2	2.57	0.62
1:G:271:VAL:C	1:G:274:PHE:H	2.06	0.62
1:G:336:ALA:HB3	1:G:340:ASN:OD1	1.99	0.62
1:I:195:MET:HE1	1:I:198:LYS:CE	2.29	0.62
1:I:301:LEU:HD12	1:I:301:LEU:O	1.99	0.62
1:I:360:LEU:HD12	1:I:365:TYR:HD1	1.62	0.62
1:I:420:ILE:HG22	1:I:422:ILE:HD11	1.81	0.62
1:I:882:UNK:C	1:I:883:UNK:CA	2.74	0.62
1:K:420:ILE:HG22	1:K:422:ILE:HD11	1.81	0.62
1:M:248:GLN:C	1:M:249:ASN:ND2	2.57	0.62
1:O:216:ASN:C	1:O:218:LYS:H	2.07	0.62
1:O:243:VAL:CG1	1:O:263:LEU:HD21	2.29	0.62
1:O:352:ILE:HD12	1:O:352:ILE:H	1.64	0.62
1:Q:352:ILE:HD12	1:Q:352:ILE:H	1.64	0.62
1:Q:387:SER:HA	1:Q:398:VAL:HG11	1.80	0.62
1:S:336:ALA:HB3	1:S:340:ASN:OD1	1.99	0.62
1:S:360:LEU:HD12	1:S:365:TYR:HD1	1.62	0.62
1:W:216:ASN:C	1:W:218:LYS:H	2.07	0.62
1:W:327:ILE:HG21	1:W:341:TRP:HE3	1.58	0.62
1:W:420:ILE:HG22	1:W:422:ILE:HD11	1.81	0.62
1:Y:387:SER:HA	1:Y:398:VAL:HG11	1.80	0.62
1:a:243:VAL:CG1	1:a:263:LEU:HD21	2.29	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:c:35:MET:HG3	1:c:39:ILE:CG2	2.28	0.62
1:c:248:GLN:C	1:c:249:ASN:ND2	2.57	0.62
1:E:153:LEU:HD22	1:E:267:ARG:HB2	1.80	0.62
1:G:360:LEU:HD12	1:G:365:TYR:HD1	1.62	0.62
1:I:374:VAL:HG21	1:I:375:PHE:CE1	2.32	0.62
1:K:73:VAL:O	1:K:76:PHE:CB	2.45	0.62
1:K:171:GLN:O	1:K:174:MET:N	2.32	0.62
1:M:158:THR:HG22	3:M:2000:ADP:O3B	1.99	0.62
1:M:372:LEU:HD11	1:M:422:ILE:HG12	1.82	0.62
1:M:495:ARG:HH22	1:M:549:ILE:HG23	1.63	0.62
1:O:52:LYS:HE2	1:O:53:ASP:OD2	1.99	0.62
1:O:178:ILE:HG23	1:O:241:LEU:CD2	2.27	0.62
1:Q:10:TYR:CE1	1:Q:107:ILE:HG21	2.35	0.62
1:Q:232:LEU:HD23	1:Q:260:CYS:SG	2.38	0.62
1:S:488:ARG:HH11	1:S:488:ARG:HG2	1.63	0.62
1:U:352:ILE:HD12	1:U:352:ILE:H	1.64	0.62
1:Y:10:TYR:CE1	1:Y:107:ILE:HG21	2.35	0.62
1:Y:232:LEU:HD23	1:Y:260:CYS:SG	2.38	0.62
1:a:158:THR:HG22	3:a:2000:ADP:O1B	1.99	0.62
1:c:158:THR:HG22	3:c:2000:ADP:O1B	1.99	0.62
1:c:372:LEU:HD11	1:c:422:ILE:HG12	1.82	0.62
1:c:495:ARG:HH22	1:c:549:ILE:HG23	1.63	0.62
1:e:171:GLN:O	1:e:174:MET:N	2.32	0.62
1:e:365:TYR:CD1	1:e:405:LEU:HD22	2.23	0.62
1:e:420:ILE:HG22	1:e:422:ILE:HD11	1.81	0.62
1:C:357:LEU:HD12	1:C:430:LYS:HZ3	1.56	0.62
1:E:52:LYS:HE2	1:E:53:ASP:OD2	1.99	0.62
1:G:302:LEU:O	1:G:305:LEU:N	2.31	0.62
1:K:365:TYR:CD1	1:K:405:LEU:HD22	2.23	0.62
1:M:10:TYR:CE1	1:M:107:ILE:HG21	2.35	0.62
1:M:221:ILE:HG23	1:M:222:HIS:N	2.13	0.62
1:O:87:PHE:HD1	1:O:88:LEU:CD1	2.08	0.62
1:O:158:THR:HG22	3:O:2000:ADP:O3B	1.99	0.62
1:S:88:LEU:HD12	1:S:88:LEU:N	2.12	0.62
1:S:302:LEU:O	1:S:305:LEU:N	2.31	0.62
1:U:171:GLN:O	1:U:174:MET:N	2.32	0.62
1:W:73:VAL:O	1:W:76:PHE:CB	2.45	0.62
1:W:410:LEU:O	1:W:423:PRO:HG3	1.98	0.62
1:Y:365:TYR:CD1	1:Y:405:LEU:HD22	2.23	0.62
1:a:52:LYS:HE2	1:a:53:ASP:OD2	1.99	0.62
1:c:10:TYR:CE1	1:c:107:ILE:HG21	2.35	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:c:171:GLN:O	1:c:174:MET:N	2.32	0.62
1:e:232:LEU:HD23	1:e:260:CYS:SG	2.38	0.62
1:A:52:LYS:HE2	1:A:53:ASP:OD2	1.99	0.62
1:E:87:PHE:CE2	2:F:82:ARG:C	2.75	0.62
1:E:171:GLN:O	1:E:174:MET:N	2.32	0.62
1:E:352:ILE:HD12	1:E:352:ILE:H	1.64	0.62
1:G:488:ARG:HH11	1:G:488:ARG:HG2	1.63	0.62
1:M:420:ILE:HG22	1:M:422:ILE:HD11	1.81	0.62
1:O:410:LEU:CD2	1:O:426:TYR:CD1	2.80	0.62
1:S:195:MET:HE1	1:S:198:LYS:CE	2.29	0.62
1:S:352:ILE:HD12	1:S:352:ILE:H	1.64	0.62
1:U:87:PHE:HD1	1:U:88:LEU:CD1	2.09	0.62
1:W:178:ILE:HG23	1:W:241:LEU:CD2	2.27	0.62
1:a:178:ILE:HG23	1:a:241:LEU:CD2	2.27	0.62
1:a:216:ASN:C	1:a:218:LYS:H	2.07	0.62
1:a:410:LEU:CD2	1:a:426:TYR:CD1	2.80	0.62
1:c:420:ILE:HG22	1:c:422:ILE:HD11	1.81	0.62
1:e:360:LEU:HD12	1:e:365:TYR:HD1	1.62	0.62
1:A:248:GLN:O	1:A:268:PHE:CE2	2.53	0.62
1:A:410:LEU:O	1:A:423:PRO:HG3	1.98	0.62
1:A:410:LEU:HA	1:A:423:PRO:CG	2.26	0.62
1:C:242:LEU:CD2	1:C:262:ILE:HG21	2.30	0.62
1:C:336:ALA:HB3	1:C:340:ASN:OD1	1.99	0.62
1:E:271:VAL:C	1:E:274:PHE:H	2.06	0.62
1:E:410:LEU:CD2	1:E:426:TYR:CD1	2.80	0.62
1:G:10:TYR:CE1	1:G:107:ILE:HG21	2.35	0.62
1:G:302:LEU:HD11	1:G:307:CYS:O	2.00	0.62
1:G:352:ILE:HD12	1:G:352:ILE:H	1.64	0.62
1:I:248:GLN:O	1:I:268:PHE:CE2	2.53	0.62
1:K:142:ARG:HB3	1:K:143:PRO:HD2	1.82	0.62
1:K:463:LEU:HB2	1:K:467:PHE:HE1	1.56	0.62
1:M:171:GLN:O	1:M:174:MET:N	2.32	0.62
1:O:10:TYR:CE1	1:O:107:ILE:HG21	2.35	0.62
1:Q:178:ILE:HG23	1:Q:241:LEU:CD2	2.27	0.62
1:S:10:TYR:CE1	1:S:107:ILE:HG21	2.35	0.62
1:S:301:LEU:HD12	1:S:301:LEU:O	1.99	0.62
1:S:302:LEU:HD11	1:S:307:CYS:O	2.00	0.62
1:U:52:LYS:HE2	1:U:53:ASP:OD2	1.99	0.62
1:U:87:PHE:CE2	2:V:82:ARG:C	2.75	0.62
1:U:248:GLN:C	1:U:249:ASN:ND2	2.57	0.62
1:W:188:SER:H	1:W:191:THR:HG21	1.63	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:W:248:GLN:HA	1:W:248:GLN:OE1	1.98	0.62
1:Y:221:ILE:HG23	1:Y:222:HIS:N	2.13	0.62
1:a:365:TYR:CD1	1:a:405:LEU:HD22	2.23	0.62
1:c:221:ILE:HG23	1:c:222:HIS:N	2.13	0.62
1:c:336:ALA:HB3	1:c:340:ASN:OD1	1.99	0.62
1:e:73:VAL:O	1:e:76:PHE:CB	2.45	0.62
1:e:495:ARG:HH22	1:e:549:ILE:HG23	1.63	0.62
1:A:336:ALA:HB3	1:A:340:ASN:OD1	1.99	0.62
1:C:356:SER:O	1:C:359:VAL:HG12	2.00	0.62
1:E:248:GLN:C	1:E:249:ASN:ND2	2.57	0.62
1:E:302:LEU:HD11	1:E:307:CYS:O	2.00	0.62
1:G:195:MET:HE1	1:G:198:LYS:CE	2.29	0.62
1:G:248:GLN:O	1:G:268:PHE:CE2	2.53	0.62
1:G:372:LEU:HD11	1:G:422:ILE:HG12	1.82	0.62
1:G:557:LYS:HE3	1:G:557:LYS:HA	1.81	0.62
1:I:52:LYS:HE2	1:I:53:ASP:OD2	1.99	0.62
1:I:248:GLN:HA	1:I:248:GLN:OE1	1.98	0.62
1:I:336:ALA:HB3	1:I:340:ASN:OD1	1.99	0.62
1:K:153:LEU:HD22	1:K:267:ARG:HB2	1.80	0.62
1:K:243:VAL:CG1	1:K:263:LEU:HD21	2.29	0.62
1:K:495:ARG:HH22	1:K:549:ILE:HG23	1.63	0.62
1:M:301:LEU:HD12	1:M:301:LEU:O	1.99	0.62
1:M:336:ALA:HB3	1:M:340:ASN:OD1	1.99	0.62
1:O:248:GLN:HA	1:O:248:GLN:OE1	1.98	0.62
1:O:365:TYR:CD1	1:O:405:LEU:HD22	2.23	0.62
1:Q:39:ILE:O	1:Q:40:LEU:HD23	1.94	0.62
1:Q:301:LEU:HD12	1:Q:301:LEU:O	1.99	0.62
1:Q:365:TYR:CD1	1:Q:405:LEU:HD22	2.23	0.62
1:Q:375:PHE:CE2	1:Q:381:ILE:HD12	2.35	0.62
1:S:188:SER:H	1:S:191:THR:HG21	1.63	0.62
1:S:248:GLN:O	1:S:268:PHE:CE2	2.53	0.62
1:S:271:VAL:C	1:S:274:PHE:H	2.06	0.62
1:S:372:LEU:HD11	1:S:422:ILE:HG12	1.82	0.62
1:U:302:LEU:HD11	1:U:307:CYS:O	2.00	0.62
1:U:360:LEU:HD12	1:U:365:TYR:HD1	1.62	0.62
1:W:242:LEU:CD2	1:W:262:ILE:HG21	2.30	0.62
1:W:336:ALA:HB3	1:W:340:ASN:OD1	1.99	0.62
1:Y:375:PHE:CE2	1:Y:381:ILE:HD12	2.35	0.62
1:Y:410:LEU:HA	1:Y:423:PRO:CG	2.26	0.62
1:a:10:TYR:CE1	1:a:107:ILE:HG21	2.35	0.62
1:a:336:ALA:HB3	1:a:340:ASN:OD1	1.99	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:c:352:ILE:HD12	1:c:352:ILE:H	1.64	0.62
1:e:142:ARG:HB3	1:e:143:PRO:HD2	1.82	0.62
1:e:216:ASN:CB	1:e:219:LEU:H	2.07	0.62
1:A:279:THR:HG23	1:A:280:THR:HG23	1.82	0.62
1:C:10:TYR:CE1	1:C:107:ILE:HG21	2.35	0.62
1:C:158:THR:HG22	3:C:2000:ADP:O3B	1.99	0.62
1:C:188:SER:H	1:C:191:THR:HG21	1.63	0.62
1:C:248:GLN:OE1	1:C:248:GLN:HA	1.98	0.62
1:E:87:PHE:HD1	1:E:88:LEU:CD1	2.09	0.62
1:E:356:SER:O	1:E:359:VAL:HG12	2.00	0.62
1:G:48:ILE:C	1:G:50:MET:H	2.08	0.62
1:G:301:LEU:HD12	1:G:301:LEU:O	1.99	0.62
1:I:138:LEU:HD21	1:I:170:VAL:HG11	1.78	0.62
1:I:279:THR:HG23	1:I:280:THR:HG23	1.82	0.62
1:I:302:LEU:HD11	1:I:307:CYS:O	2.00	0.62
1:I:410:LEU:O	1:I:423:PRO:HG3	1.98	0.62
1:I:410:LEU:HA	1:I:423:PRO:CG	2.26	0.62
1:K:216:ASN:CB	1:K:219:LEU:H	2.07	0.62
1:K:232:LEU:HD23	1:K:260:CYS:SG	2.38	0.62
1:K:279:THR:HG23	1:K:280:THR:HG23	1.82	0.62
1:K:295:ASP:O	1:K:298:LYS:CG	2.39	0.62
1:K:302:LEU:HD11	1:K:307:CYS:O	2.00	0.62
1:K:336:ALA:HB3	1:K:340:ASN:OD1	1.99	0.62
1:M:153:LEU:HD22	1:M:267:ARG:HB2	1.80	0.62
1:M:216:ASN:C	1:M:218:LYS:H	2.07	0.62
1:M:216:ASN:C	1:M:218:LYS:N	2.55	0.62
1:O:221:ILE:HG23	1:O:222:HIS:N	2.13	0.62
1:O:336:ALA:HB3	1:O:340:ASN:OD1	1.99	0.62
1:O:372:LEU:HD11	1:O:422:ILE:HG12	1.82	0.62
2:P:81:GLN:HA	2:P:81:GLN:NE2	2.08	0.62
1:Q:221:ILE:HG23	1:Q:222:HIS:N	2.13	0.62
1:Q:242:LEU:CD2	1:Q:244:LEU:CD1	2.78	0.62
1:Q:242:LEU:CD2	1:Q:262:ILE:HG21	2.30	0.62
1:Q:382:PRO:CB	1:Q:463:LEU:HD22	2.20	0.62
1:Q:410:LEU:HA	1:Q:423:PRO:CG	2.26	0.62
1:S:48:ILE:C	1:S:50:MET:H	2.08	0.62
1:U:142:ARG:HB3	1:U:143:PRO:HD2	1.82	0.62
1:U:157:LYS:CA	1:U:285:LEU:CD1	2.76	0.62
1:U:356:SER:O	1:U:359:VAL:HG12	2.00	0.62
1:U:410:LEU:CD2	1:U:426:TYR:CD1	2.80	0.62
1:W:158:THR:HG22	3:W:2000:ADP:O1B	1.99	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:W:232:LEU:C	1:W:234:SER:N	2.57	0.62
1:W:356:SER:O	1:W:359:VAL:HG12	2.00	0.62
1:Y:39:ILE:O	1:Y:40:LEU:HD23	1.94	0.62
1:Y:142:ARG:HB3	1:Y:143:PRO:HD2	1.82	0.62
1:Y:242:LEU:CD2	1:Y:244:LEU:CD1	2.78	0.62
1:Y:301:LEU:HD12	1:Y:301:LEU:O	1.99	0.62
1:Y:382:PRO:CB	1:Y:463:LEU:HD22	2.20	0.62
1:a:248:GLN:HA	1:a:248:GLN:OE1	1.98	0.62
1:e:243:VAL:CG1	1:e:263:LEU:HD21	2.29	0.62
1:e:258:LEU:O	1:e:259:SER:CB	2.47	0.62
1:e:279:THR:HG23	1:e:280:THR:HG23	1.82	0.62
1:e:336:ALA:HB3	1:e:340:ASN:OD1	1.99	0.62
1:e:463:LEU:HB2	1:e:467:PHE:HE1	1.56	0.62
1:e:557:LYS:HE3	1:e:557:LYS:HA	1.81	0.62
1:A:248:GLN:HA	1:A:248:GLN:OE1	1.98	0.62
1:A:302:LEU:HD11	1:A:307:CYS:O	2.00	0.62
1:A:352:ILE:HD12	1:A:352:ILE:H	1.64	0.62
1:E:142:ARG:HB3	1:E:143:PRO:HD2	1.82	0.62
1:E:232:LEU:HD23	1:E:260:CYS:SG	2.38	0.62
1:E:248:GLN:O	1:E:268:PHE:CE2	2.53	0.62
1:G:188:SER:H	1:G:191:THR:HG21	1.63	0.62
1:G:495:ARG:HH22	1:G:549:ILE:HG23	1.63	0.62
1:M:352:ILE:HD12	1:M:352:ILE:H	1.64	0.62
1:O:248:GLN:O	1:O:268:PHE:CE2	2.53	0.62
1:O:488:ARG:HH11	1:O:488:ARG:HG2	1.63	0.62
2:P:15:ARG:O	2:P:19:ARG:HB2	1.99	0.62
1:Q:142:ARG:HB3	1:Q:143:PRO:HD2	1.82	0.62
1:Q:248:GLN:O	1:Q:268:PHE:CE2	2.53	0.62
1:Q:420:ILE:CG2	1:Q:422:ILE:CD1	2.78	0.62
2:R:15:ARG:O	2:R:19:ARG:HB2	1.99	0.62
1:S:495:ARG:HH22	1:S:549:ILE:HG23	1.63	0.62
1:S:557:LYS:HE3	1:S:557:LYS:HA	1.81	0.62
1:U:10:TYR:CE1	1:U:107:ILE:HG21	2.35	0.62
1:U:216:ASN:C	1:U:218:LYS:N	2.55	0.62
1:U:232:LEU:HD23	1:U:260:CYS:SG	2.38	0.62
1:U:248:GLN:O	1:U:268:PHE:CE2	2.53	0.62
1:W:10:TYR:CE1	1:W:107:ILE:HG21	2.35	0.62
1:W:882:UNK:C	1:W:883:UNK:CA	2.74	0.62
2:X:15:ARG:O	2:X:19:ARG:HB2	1.99	0.62
1:Y:178:ILE:HG23	1:Y:241:LEU:CD2	2.27	0.62
1:Y:232:LEU:C	1:Y:234:SER:N	2.57	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Y:242:LEU:CD2	1:Y:262:ILE:HG21	2.30	0.62
1:Y:248:GLN:O	1:Y:268:PHE:CE2	2.53	0.62
1:Y:420:ILE:CG2	1:Y:422:ILE:CD1	2.78	0.62
1:a:372:LEU:HD11	1:a:422:ILE:HG12	1.82	0.62
1:a:375:PHE:CE2	1:a:381:ILE:HD12	2.35	0.62
1:a:410:LEU:O	1:a:423:PRO:HG3	1.98	0.62
1:a:488:ARG:HH11	1:a:488:ARG:HG2	1.63	0.62
1:c:153:LEU:HD22	1:c:267:ARG:HB2	1.80	0.62
1:c:301:LEU:HD12	1:c:301:LEU:O	1.99	0.62
1:e:10:TYR:CE1	1:e:107:ILE:HG21	2.35	0.62
1:e:153:LEU:HD22	1:e:267:ARG:HB2	1.80	0.62
1:e:302:LEU:HD11	1:e:307:CYS:O	2.00	0.62
1:A:264:LEU:O	1:A:264:LEU:HG	2.00	0.62
1:A:348:LYS:C	1:A:352:ILE:HD13	2.25	0.62
1:A:375:PHE:CE2	1:A:381:ILE:HD12	2.35	0.62
1:C:375:PHE:CE2	1:C:381:ILE:HD12	2.35	0.62
2:D:15:ARG:O	2:D:19:ARG:HB2	1.99	0.62
1:E:157:LYS:CA	1:E:285:LEU:CD1	2.76	0.62
1:E:242:LEU:CD2	1:E:244:LEU:CD1	2.78	0.62
1:E:360:LEU:HD12	1:E:365:TYR:HD1	1.62	0.62
1:E:387:SER:HA	1:E:398:VAL:HG11	1.80	0.62
1:G:142:ARG:HB3	1:G:143:PRO:HD2	1.82	0.62
1:G:279:THR:HG23	1:G:280:THR:HG23	1.82	0.62
1:I:264:LEU:O	1:I:264:LEU:HG	2.00	0.62
1:I:348:LYS:C	1:I:352:ILE:HD13	2.25	0.62
1:I:352:ILE:HD12	1:I:352:ILE:H	1.64	0.62
1:I:375:PHE:CE2	1:I:381:ILE:HD12	2.35	0.62
1:K:10:TYR:CE1	1:K:107:ILE:HG21	2.35	0.62
1:K:258:LEU:O	1:K:259:SER:CB	2.47	0.62
1:K:375:PHE:CE2	1:K:381:ILE:HD12	2.35	0.62
1:K:557:LYS:HE3	1:K:557:LYS:HA	1.81	0.62
1:M:87:PHE:CE2	2:N:82:ARG:C	2.75	0.62
1:O:375:PHE:CE2	1:O:381:ILE:HD12	2.35	0.62
1:O:410:LEU:O	1:O:423:PRO:HG3	1.98	0.62
1:Q:188:SER:H	1:Q:191:THR:HG21	1.63	0.62
1:Q:279:THR:HG23	1:Q:280:THR:HG23	1.82	0.62
1:S:52:LYS:HE2	1:S:53:ASP:OD2	1.99	0.62
1:S:242:LEU:CD2	1:S:244:LEU:CD1	2.78	0.62
1:U:87:PHE:CE2	2:V:83:GLY:HA3	2.33	0.62
1:U:242:LEU:CD2	1:U:244:LEU:CD1	2.78	0.62
1:U:369:PHE:HZ	1:U:410:LEU:CD2	2.06	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Y:158:THR:HG22	3:Y:2000:ADP:O1B	1.99	0.62
1:Y:543:LEU:O	1:Y:547:PRO:HD2	2.00	0.62
2:Z:15:ARG:O	2:Z:19:ARG:HB2	1.99	0.62
1:a:221:ILE:HG23	1:a:222:HIS:N	2.13	0.62
1:a:248:GLN:O	1:a:268:PHE:CE2	2.53	0.62
1:c:87:PHE:CE2	2:d:82:ARG:C	2.75	0.62
1:e:248:GLN:C	1:e:249:ASN:ND2	2.57	0.62
1:A:142:ARG:HB3	1:A:143:PRO:HD2	1.82	0.61
1:A:302:LEU:HD21	1:A:307:CYS:O	2.00	0.61
1:C:48:ILE:C	1:C:50:MET:H	2.08	0.61
1:C:142:ARG:HB3	1:C:143:PRO:HD2	1.82	0.61
1:C:243:VAL:CG1	1:C:263:LEU:HD21	2.29	0.61
1:C:301:LEU:HD12	1:C:301:LEU:O	1.99	0.61
1:C:420:ILE:CG2	1:C:422:ILE:CD1	2.78	0.61
1:C:543:LEU:O	1:C:547:PRO:HD2	2.00	0.61
1:C:882:UNK:C	1:C:883:UNK:CA	2.74	0.61
1:E:10:TYR:CE1	1:E:107:ILE:HG21	2.35	0.61
2:F:15:ARG:O	2:F:19:ARG:HB2	1.99	0.61
1:G:52:LYS:HE2	1:G:53:ASP:OD2	1.99	0.61
1:G:242:LEU:CD2	1:G:244:LEU:CD1	2.78	0.61
1:G:302:LEU:HD21	1:G:307:CYS:O	2.00	0.61
1:G:543:LEU:O	1:G:547:PRO:HD2	2.00	0.61
1:I:302:LEU:HD21	1:I:307:CYS:O	2.00	0.61
1:K:195:MET:HE1	1:K:198:LYS:CE	2.29	0.61
1:K:248:GLN:C	1:K:249:ASN:ND2	2.57	0.61
1:Q:158:THR:HG22	3:Q:2000:ADP:O3B	1.99	0.61
1:Q:420:ILE:HG22	1:Q:422:ILE:HD11	1.81	0.61
1:Q:543:LEU:O	1:Q:547:PRO:HD2	2.00	0.61
1:S:142:ARG:HB3	1:S:143:PRO:HD2	1.82	0.61
1:S:279:THR:HG23	1:S:280:THR:HG23	1.82	0.61
1:S:302:LEU:HD21	1:S:307:CYS:O	2.00	0.61
1:S:356:SER:O	1:S:359:VAL:HG12	2.00	0.61
1:U:258:LEU:O	1:U:259:SER:CB	2.47	0.61
1:W:48:ILE:C	1:W:50:MET:H	2.08	0.61
1:W:157:LYS:CA	1:W:285:LEU:CD1	2.76	0.61
1:W:243:VAL:CG1	1:W:263:LEU:HD21	2.29	0.61
1:W:375:PHE:CE2	1:W:381:ILE:HD12	2.35	0.61
1:W:420:ILE:CG2	1:W:422:ILE:CD1	2.78	0.61
1:W:543:LEU:O	1:W:547:PRO:HD2	2.00	0.61
1:Y:279:THR:HG23	1:Y:280:THR:HG23	1.82	0.61
1:a:420:ILE:HG22	1:a:422:ILE:HD11	1.81	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:b:15:ARG:O	2:b:19:ARG:HB2	1.99	0.61
1:e:264:LEU:O	1:e:264:LEU:HG	2.00	0.61
1:e:264:LEU:HD12	1:e:266:THR:OG1	2.00	0.61
1:e:295:ASP:O	1:e:298:LYS:CG	2.39	0.61
1:e:375:PHE:CE2	1:e:381:ILE:HD12	2.35	0.61
1:A:48:ILE:C	1:A:50:MET:H	2.08	0.61
1:A:264:LEU:HD12	1:A:266:THR:OG1	2.00	0.61
1:A:365:TYR:CD1	1:A:405:LEU:HD22	2.23	0.61
1:E:87:PHE:CE2	2:F:83:GLY:HA3	2.33	0.61
1:E:543:LEU:O	1:E:547:PRO:HD2	2.00	0.61
1:G:356:SER:O	1:G:359:VAL:HG12	2.00	0.61
1:I:48:ILE:C	1:I:50:MET:H	2.08	0.61
1:I:142:ARG:HB3	1:I:143:PRO:HD2	1.82	0.61
1:I:264:LEU:HD12	1:I:266:THR:OG1	2.00	0.61
1:K:264:LEU:O	1:K:264:LEU:HG	2.00	0.61
1:K:264:LEU:HD12	1:K:266:THR:OG1	2.00	0.61
1:K:410:LEU:C	1:K:423:PRO:HD3	2.23	0.61
1:M:302:LEU:HD11	1:M:307:CYS:O	2.00	0.61
1:M:488:ARG:HB2	1:M:494:PHE:HB2	1.82	0.61
1:O:279:THR:HG23	1:O:280:THR:HG23	1.82	0.61
1:O:348:LYS:C	1:O:352:ILE:HD13	2.25	0.61
1:O:360:LEU:HD12	1:O:365:TYR:HD1	1.62	0.61
1:O:420:ILE:HG22	1:O:422:ILE:HD11	1.81	0.61
1:O:420:ILE:CG2	1:O:422:ILE:CD1	2.78	0.61
1:Q:11:GLN:OE1	1:Q:70:GLU:CD	2.43	0.61
1:Q:39:ILE:O	1:Q:40:LEU:HD22	1.99	0.61
1:Q:557:LYS:HE3	1:Q:557:LYS:HA	1.81	0.61
1:S:543:LEU:O	1:S:547:PRO:HD2	2.00	0.61
1:U:387:SER:HA	1:U:398:VAL:HG11	1.80	0.61
1:U:543:LEU:O	1:U:547:PRO:HD2	2.00	0.61
1:W:142:ARG:HB3	1:W:143:PRO:HD2	1.82	0.61
1:Y:11:GLN:OE1	1:Y:70:GLU:CD	2.43	0.61
1:Y:188:SER:H	1:Y:191:THR:HG21	1.63	0.61
1:Y:420:ILE:HG22	1:Y:422:ILE:HD11	1.81	0.61
1:a:279:THR:HG23	1:a:280:THR:HG23	1.82	0.61
1:a:348:LYS:C	1:a:352:ILE:HD13	2.25	0.61
1:a:420:ILE:CG2	1:a:422:ILE:CD1	2.78	0.61
1:c:142:ARG:HB3	1:c:143:PRO:HD2	1.82	0.61
1:c:488:ARG:HB2	1:c:494:PHE:HB2	1.82	0.61
1:e:352:ILE:HD12	1:e:352:ILE:H	1.64	0.61
1:e:488:ARG:HB2	1:e:494:PHE:HB2	1.82	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:e:543:LEU:O	1:e:547:PRO:HD2	2.00	0.61
1:A:232:LEU:HD23	1:A:260:CYS:SG	2.38	0.61
1:C:157:LYS:CA	1:C:285:LEU:CD1	2.76	0.61
1:C:302:LEU:HD21	1:C:307:CYS:O	2.00	0.61
1:E:242:LEU:CD2	1:E:262:ILE:HG21	2.30	0.61
1:E:258:LEU:O	1:E:259:SER:CB	2.47	0.61
1:E:369:PHE:HZ	1:E:410:LEU:CD2	2.06	0.61
1:G:11:GLN:OE1	1:G:70:GLU:CD	2.43	0.61
1:G:293:THR:O	1:G:296:GLU:N	2.34	0.61
1:I:232:LEU:HD23	1:I:260:CYS:SG	2.38	0.61
1:I:365:TYR:CD1	1:I:405:LEU:HD22	2.23	0.61
1:K:360:LEU:HD12	1:K:365:TYR:HD1	1.62	0.61
1:K:488:ARG:HB2	1:K:494:PHE:HB2	1.82	0.61
1:K:543:LEU:O	1:K:547:PRO:HD2	2.00	0.61
1:M:543:LEU:O	1:M:547:PRO:HD2	2.00	0.61
1:O:142:ARG:HB3	1:O:143:PRO:HD2	1.82	0.61
1:Q:232:LEU:C	1:Q:234:SER:N	2.57	0.61
1:S:11:GLN:OE1	1:S:70:GLU:CD	2.43	0.61
1:S:160:VAL:O	1:S:164:VAL:HG13	2.01	0.61
1:S:293:THR:O	1:S:296:GLU:N	2.34	0.61
1:S:420:ILE:CG2	1:S:422:ILE:CD1	2.78	0.61
1:U:216:ASN:C	1:U:218:LYS:H	2.07	0.61
1:U:242:LEU:CD2	1:U:262:ILE:HG21	2.30	0.61
2:V:15:ARG:O	2:V:19:ARG:HB2	1.99	0.61
1:W:279:THR:HG23	1:W:280:THR:HG23	1.82	0.61
1:W:301:LEU:HD12	1:W:301:LEU:O	1.99	0.61
1:W:302:LEU:HD11	1:W:307:CYS:O	2.00	0.61
1:Y:39:ILE:O	1:Y:40:LEU:HD22	1.99	0.61
1:Y:336:ALA:HB3	1:Y:340:ASN:OD1	1.99	0.61
1:c:48:ILE:HG21	1:c:61:LEU:HB2	1.82	0.61
1:c:216:ASN:C	1:c:218:LYS:H	2.07	0.61
1:c:243:VAL:CG1	1:c:263:LEU:HD21	2.29	0.61
1:c:302:LEU:HD11	1:c:307:CYS:O	2.00	0.61
1:e:195:MET:HE1	1:e:198:LYS:CE	2.29	0.61
1:e:248:GLN:O	1:e:268:PHE:CE2	2.53	0.61
1:A:87:PHE:CE2	2:B:83:GLY:HA3	2.33	0.61
1:A:158:THR:HG22	3:A:2000:ADP:O1B	1.99	0.61
1:C:264:LEU:HD12	1:C:266:THR:OG1	2.00	0.61
1:C:302:LEU:HD11	1:C:307:CYS:O	2.00	0.61
1:E:160:VAL:O	1:E:164:VAL:HG13	2.01	0.61
1:E:216:ASN:C	1:E:218:LYS:H	2.07	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:293:THR:O	1:E:296:GLU:N	2.34	0.61
1:G:160:VAL:O	1:G:164:VAL:HG13	2.01	0.61
1:G:420:ILE:CG2	1:G:422:ILE:CD1	2.78	0.61
1:G:488:ARG:HB2	1:G:494:PHE:HB2	1.82	0.61
1:I:10:TYR:CE1	1:I:107:ILE:HG21	2.35	0.61
1:I:158:THR:HG22	3:I:2000:ADP:O3B	1.99	0.61
2:J:15:ARG:O	2:J:19:ARG:HB2	1.99	0.61
1:K:39:ILE:O	1:K:40:LEU:HD22	1.99	0.61
1:K:248:GLN:O	1:K:268:PHE:CE2	2.53	0.61
1:K:352:ILE:HD12	1:K:352:ILE:H	1.64	0.61
1:M:48:ILE:HG21	1:M:61:LEU:HB2	1.82	0.61
1:M:142:ARG:HB3	1:M:143:PRO:HD2	1.82	0.61
1:O:39:ILE:O	1:O:40:LEU:HD22	1.99	0.61
1:Q:336:ALA:HB3	1:Q:340:ASN:OD1	1.99	0.61
1:Q:356:SER:O	1:Q:359:VAL:HG12	2.00	0.61
1:U:160:VAL:O	1:U:164:VAL:HG13	2.01	0.61
1:U:279:THR:HG23	1:U:280:THR:HG23	1.82	0.61
1:U:301:LEU:HD12	1:U:301:LEU:O	1.99	0.61
1:W:302:LEU:HD21	1:W:307:CYS:O	2.00	0.61
1:Y:557:LYS:HE3	1:Y:557:LYS:HA	1.81	0.61
1:a:142:ARG:HB3	1:a:143:PRO:HD2	1.82	0.61
1:a:171:GLN:O	1:a:174:MET:N	2.32	0.61
1:c:264:LEU:HD12	1:c:266:THR:OG1	2.00	0.61
1:c:543:LEU:O	1:c:547:PRO:HD2	2.00	0.61
1:A:10:TYR:CE1	1:A:107:ILE:HG21	2.35	0.61
1:A:11:GLN:OE1	1:A:70:GLU:CD	2.43	0.61
1:A:216:ASN:C	1:A:218:LYS:N	2.55	0.61
1:A:293:THR:O	1:A:296:GLU:N	2.34	0.61
1:C:248:GLN:O	1:C:268:PHE:CE2	2.53	0.61
1:E:279:THR:HG23	1:E:280:THR:HG23	1.82	0.61
1:G:158:THR:HG22	3:G:2000:ADP:O3B	1.99	0.61
1:G:322:ARG:HG3	1:G:322:ARG:NH1	2.16	0.61
1:I:11:GLN:OE1	1:I:70:GLU:CD	2.43	0.61
1:I:216:ASN:C	1:I:218:LYS:N	2.55	0.61
1:I:293:THR:O	1:I:296:GLU:N	2.34	0.61
1:I:420:ILE:CG2	1:I:422:ILE:CD1	2.78	0.61
1:K:301:LEU:HD12	1:K:301:LEU:O	1.99	0.61
1:K:420:ILE:CG2	1:K:422:ILE:CD1	2.78	0.61
1:M:195:MET:HE1	1:M:198:LYS:CE	2.29	0.61
1:M:264:LEU:HD12	1:M:266:THR:OG1	2.00	0.61
1:M:410:LEU:CD2	1:M:426:TYR:CD1	2.80	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:S:322:ARG:HG3	1:S:322:ARG:NH1	2.16	0.61
1:S:375:PHE:CE2	1:S:381:ILE:HD12	2.35	0.61
1:S:488:ARG:HB2	1:S:494:PHE:HB2	1.82	0.61
1:U:293:THR:O	1:U:296:GLU:N	2.34	0.61
1:W:242:LEU:CD2	1:W:244:LEU:CD1	2.78	0.61
1:W:264:LEU:HD12	1:W:266:THR:OG1	2.00	0.61
1:a:360:LEU:HD12	1:a:365:TYR:HD1	1.62	0.61
1:c:488:ARG:HH11	1:c:488:ARG:HG2	1.63	0.61
1:e:488:ARG:HH11	1:e:488:ARG:HG2	1.63	0.61
1:A:160:VAL:O	1:A:164:VAL:HG13	2.01	0.61
1:A:420:ILE:CG2	1:A:422:ILE:CD1	2.78	0.61
1:C:242:LEU:CD2	1:C:244:LEU:CD1	2.78	0.61
1:E:118:GLN:C	1:E:120:PHE:N	2.58	0.61
1:E:235:LYS:HE2	1:E:235:LYS:HA	1.83	0.61
1:E:301:LEU:HD12	1:E:301:LEU:O	1.99	0.61
1:G:264:LEU:O	1:G:264:LEU:HG	2.00	0.61
1:G:375:PHE:CE2	1:G:381:ILE:HD12	2.35	0.61
1:I:39:ILE:O	1:I:40:LEU:HD22	1.99	0.61
1:I:87:PHE:CE2	2:J:83:GLY:HA3	2.33	0.61
1:I:295:ASP:O	1:I:298:LYS:CG	2.39	0.61
1:K:235:LYS:HE2	1:K:235:LYS:HA	1.83	0.61
1:M:248:GLN:O	1:M:268:PHE:CE2	2.53	0.61
2:N:15:ARG:O	2:N:19:ARG:HB2	1.99	0.61
1:O:171:GLN:O	1:O:174:MET:N	2.32	0.61
1:O:178:ILE:HG22	1:O:241:LEU:CD2	2.01	0.61
1:O:242:LEU:CD2	1:O:244:LEU:CD1	2.78	0.61
1:Q:322:ARG:HG3	1:Q:322:ARG:NH1	2.16	0.61
1:Q:372:LEU:HD11	1:Q:422:ILE:HG12	1.82	0.61
1:S:87:PHE:CE2	2:T:83:GLY:HA3	2.33	0.61
1:S:158:THR:HG22	3:S:2000:ADP:O1B	1.99	0.61
1:U:118:GLN:C	1:U:120:PHE:N	2.58	0.61
1:U:302:LEU:HD21	1:U:307:CYS:O	2.00	0.61
1:W:87:PHE:HE2	2:X:82:ARG:C	1.99	0.61
1:Y:258:LEU:O	1:Y:259:SER:CB	2.47	0.61
1:Y:356:SER:O	1:Y:359:VAL:HG12	2.00	0.61
1:a:39:ILE:O	1:a:40:LEU:HD22	1.99	0.61
1:c:235:LYS:HE2	1:c:235:LYS:HA	1.83	0.61
1:c:348:LYS:C	1:c:352:ILE:HD13	2.25	0.61
1:c:375:PHE:CE2	1:c:381:ILE:HD12	2.35	0.61
1:c:410:LEU:CD2	1:c:426:TYR:CD1	2.80	0.61
1:e:39:ILE:O	1:e:40:LEU:HD22	1.99	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:e:235:LYS:HE2	1:e:235:LYS:HA	1.83	0.61
1:e:301:LEU:HD12	1:e:301:LEU:O	1.99	0.61
1:e:420:ILE:CG2	1:e:422:ILE:CD1	2.78	0.61
1:A:39:ILE:O	1:A:40:LEU:HD22	1.99	0.61
1:A:216:ASN:C	1:A:218:LYS:H	2.07	0.61
1:A:243:VAL:CG1	1:A:263:LEU:HD21	2.29	0.61
1:A:462:TYR:HE2	1:A:494:PHE:CE1	2.19	0.61
1:A:753:UNK:CB	1:A:810:UNK:O	2.49	0.61
2:B:15:ARG:O	2:B:19:ARG:HB2	1.99	0.61
1:C:39:ILE:O	1:C:40:LEU:HD22	1.99	0.61
1:E:11:GLN:OE1	1:E:70:GLU:CD	2.43	0.61
1:E:302:LEU:HD21	1:E:307:CYS:O	2.00	0.61
1:G:118:GLN:C	1:G:120:PHE:N	2.58	0.61
1:I:160:VAL:O	1:I:164:VAL:HG13	2.01	0.61
1:I:462:TYR:HE2	1:I:494:PHE:CE1	2.19	0.61
1:I:753:UNK:CB	1:I:810:UNK:O	2.49	0.61
1:K:488:ARG:HH11	1:K:488:ARG:HG2	1.63	0.61
1:M:235:LYS:HE2	1:M:235:LYS:HA	1.83	0.61
1:M:279:THR:HG23	1:M:280:THR:HG23	1.82	0.61
1:M:284:SER:O	1:M:290:MET:SD	2.59	0.61
1:M:375:PHE:CE2	1:M:381:ILE:HD12	2.35	0.61
1:O:11:GLN:OE1	1:O:70:GLU:CD	2.43	0.61
1:O:242:LEU:CD2	1:O:262:ILE:HG21	2.30	0.61
1:S:118:GLN:C	1:S:120:PHE:N	2.58	0.61
1:S:243:VAL:CG1	1:S:263:LEU:HD21	2.29	0.61
1:S:264:LEU:O	1:S:264:LEU:HG	2.00	0.61
1:S:357:LEU:CG	1:S:430:LYS:HZ3	2.10	0.61
1:U:235:LYS:HE2	1:U:235:LYS:HA	1.83	0.61
1:W:248:GLN:O	1:W:268:PHE:CE2	2.53	0.61
1:Y:322:ARG:HG3	1:Y:322:ARG:NH1	2.16	0.61
1:a:242:LEU:CD2	1:a:244:LEU:CD1	2.78	0.61
1:c:195:MET:HE1	1:c:198:LYS:CE	2.29	0.61
2:d:15:ARG:O	2:d:19:ARG:HB2	1.99	0.61
1:e:216:ASN:C	1:e:218:LYS:H	2.07	0.61
1:e:410:LEU:C	1:e:423:PRO:HD3	2.23	0.61
1:A:118:GLN:C	1:A:120:PHE:N	2.58	0.61
1:E:375:PHE:CE2	1:E:381:ILE:HD12	2.35	0.61
1:E:420:ILE:CG2	1:E:422:ILE:CD1	2.78	0.61
1:G:87:PHE:CE2	2:H:83:GLY:HA3	2.33	0.61
1:G:216:ASN:C	1:G:218:LYS:N	2.55	0.61
1:G:243:VAL:CG1	1:G:263:LEU:HD21	2.29	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:118:GLN:C	1:I:120:PHE:N	2.58	0.61
1:I:243:VAL:CG1	1:I:263:LEU:HD21	2.29	0.61
1:I:322:ARG:HG3	1:I:322:ARG:NH1	2.16	0.61
1:K:753:UNK:CB	1:K:810:UNK:O	2.49	0.61
1:M:348:LYS:C	1:M:352:ILE:HD13	2.25	0.61
1:M:420:ILE:CG2	1:M:422:ILE:CD1	2.78	0.61
1:M:488:ARG:HH11	1:M:488:ARG:HG2	1.63	0.61
1:M:753:UNK:CB	1:M:810:UNK:O	2.49	0.61
1:O:160:VAL:O	1:O:164:VAL:HG13	2.01	0.61
1:Q:258:LEU:O	1:Q:259:SER:CB	2.47	0.61
1:Q:753:UNK:CB	1:Q:810:UNK:O	2.49	0.61
1:S:87:PHE:HD2	2:T:83:GLY:CA	1.97	0.61
1:S:171:GLN:O	1:S:174:MET:N	2.32	0.61
1:S:216:ASN:C	1:S:218:LYS:N	2.55	0.61
1:S:348:LYS:C	1:S:352:ILE:HD13	2.25	0.61
1:U:195:MET:HE1	1:U:198:LYS:CE	2.29	0.61
1:U:374:VAL:HG23	1:U:375:PHE:CG	2.36	0.61
1:U:420:ILE:CG2	1:U:422:ILE:CD1	2.78	0.61
1:Y:753:UNK:CB	1:Y:810:UNK:O	2.49	0.61
1:a:178:ILE:HG22	1:a:241:LEU:CD2	2.01	0.61
1:c:248:GLN:O	1:c:268:PHE:CE2	2.53	0.61
1:c:264:LEU:O	1:c:264:LEU:HG	2.00	0.61
1:c:284:SER:O	1:c:290:MET:SD	2.59	0.61
1:e:293:THR:O	1:e:296:GLU:N	2.34	0.61
1:e:753:UNK:CB	1:e:810:UNK:O	2.49	0.61
1:A:235:LYS:HE2	1:A:235:LYS:HA	1.83	0.61
1:A:295:ASP:O	1:A:298:LYS:CG	2.39	0.61
1:C:11:GLN:OE1	1:C:70:GLU:CD	2.43	0.61
1:C:235:LYS:HE2	1:C:235:LYS:HA	1.83	0.61
1:C:293:THR:O	1:C:296:GLU:N	2.34	0.61
1:C:322:ARG:HG3	1:C:322:ARG:NH1	2.16	0.61
1:C:357:LEU:HB3	1:C:366:ARG:HD3	1.83	0.61
1:C:410:LEU:CD2	1:C:426:TYR:CD1	2.80	0.61
1:C:488:ARG:HB2	1:C:494:PHE:HB2	1.82	0.61
1:E:48:ILE:C	1:E:50:MET:H	2.08	0.61
1:E:146:ASN:ND2	1:E:253:TRP:HZ2	1.99	0.61
1:E:371:ARG:HB3	1:E:389:ILE:HD13	1.74	0.61
1:E:374:VAL:HG23	1:E:375:PHE:CG	2.36	0.61
1:G:87:PHE:HD2	2:H:83:GLY:CA	1.97	0.61
1:G:235:LYS:HE2	1:G:235:LYS:HA	1.83	0.61
1:G:348:LYS:C	1:G:352:ILE:HD13	2.25	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:235:LYS:HE2	1:I:235:LYS:HA	1.83	0.61
1:I:488:ARG:HB2	1:I:494:PHE:HB2	1.82	0.61
1:I:557:LYS:HE3	1:I:557:LYS:HA	1.81	0.61
2:J:22:LEU:HD21	2:J:76:LEU:HB2	1.83	0.61
1:K:48:ILE:HG21	1:K:61:LEU:HB2	1.82	0.61
1:K:216:ASN:C	1:K:218:LYS:H	2.07	0.61
1:K:293:THR:O	1:K:296:GLU:N	2.34	0.61
1:K:356:SER:O	1:K:359:VAL:HG12	2.00	0.61
1:K:462:TYR:HE2	1:K:494:PHE:CE1	2.19	0.61
1:M:39:ILE:O	1:M:40:LEU:HD22	1.99	0.61
1:M:264:LEU:HG	1:M:264:LEU:O	2.00	0.61
1:M:374:VAL:HG23	1:M:375:PHE:CG	2.36	0.61
1:M:469:SER:HA	1:M:523:PHE:CZ	2.36	0.61
1:Q:348:LYS:C	1:Q:352:ILE:HD13	2.25	0.61
1:S:235:LYS:HE2	1:S:235:LYS:HA	1.83	0.61
1:S:264:LEU:HD12	1:S:266:THR:OG1	2.00	0.61
1:U:48:ILE:C	1:U:50:MET:H	2.08	0.61
1:W:11:GLN:OE1	1:W:70:GLU:CD	2.43	0.61
1:W:39:ILE:O	1:W:40:LEU:HD22	1.99	0.61
1:W:357:LEU:HB3	1:W:366:ARG:HD3	1.83	0.61
1:W:753:UNK:CB	1:W:810:UNK:O	2.49	0.61
1:Y:372:LEU:HD11	1:Y:422:ILE:HG12	1.82	0.61
1:a:160:VAL:O	1:a:164:VAL:HG13	2.01	0.61
1:a:232:LEU:C	1:a:234:SER:N	2.57	0.61
1:a:242:LEU:CD2	1:a:262:ILE:HG21	2.30	0.61
1:a:264:LEU:HD12	1:a:266:THR:OG1	2.00	0.61
1:a:284:SER:O	1:a:290:MET:SD	2.59	0.61
1:a:302:LEU:HD21	1:a:307:CYS:O	2.00	0.61
1:c:11:GLN:OE1	1:c:70:GLU:CD	2.43	0.61
1:c:216:ASN:C	1:c:218:LYS:N	2.55	0.61
1:c:279:THR:HG23	1:c:280:THR:HG23	1.82	0.61
1:c:420:ILE:CG2	1:c:422:ILE:CD1	2.78	0.61
1:c:469:SER:HA	1:c:523:PHE:CZ	2.36	0.61
1:c:753:UNK:CB	1:c:810:UNK:O	2.49	0.61
1:e:11:GLN:OE1	1:e:70:GLU:CD	2.43	0.61
1:e:356:SER:O	1:e:359:VAL:HG12	2.00	0.61
1:e:374:VAL:HG23	1:e:375:PHE:CG	2.36	0.61
2:f:22:LEU:HD21	2:f:76:LEU:HB2	1.83	0.61
1:A:284:SER:O	1:A:290:MET:SD	2.59	0.61
1:A:322:ARG:HG3	1:A:322:ARG:NH1	2.16	0.61
1:A:488:ARG:HH11	1:A:488:ARG:HG2	1.63	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:488:ARG:HB2	1:A:494:PHE:HB2	1.82	0.61
1:A:557:LYS:HE3	1:A:557:LYS:HA	1.81	0.61
2:B:22:LEU:HD21	2:B:76:LEU:HB2	1.83	0.61
1:C:753:UNK:CB	1:C:810:UNK:O	2.49	0.61
1:E:120:PHE:HE1	1:E:124:ASN:OD1	1.84	0.61
1:E:195:MET:HE1	1:E:198:LYS:CE	2.29	0.61
1:G:253:TRP:O	1:G:254:ASN:C	2.44	0.61
1:G:264:LEU:HD12	1:G:266:THR:OG1	2.00	0.61
1:G:405:LEU:CB	1:G:411:VAL:HG11	2.28	0.61
1:G:753:UNK:CB	1:G:810:UNK:O	2.49	0.61
1:K:11:GLN:OE1	1:K:70:GLU:CD	2.43	0.61
1:K:216:ASN:C	1:K:218:LYS:N	2.55	0.61
1:K:302:LEU:HD21	1:K:307:CYS:O	2.00	0.61
1:K:374:VAL:HG23	1:K:375:PHE:CG	2.36	0.61
2:L:22:LEU:HD21	2:L:76:LEU:HB2	1.83	0.61
1:M:11:GLN:OE1	1:M:70:GLU:CD	2.43	0.61
1:M:322:ARG:HG3	1:M:322:ARG:NH1	2.16	0.61
1:O:200:LEU:CD1	1:O:228:LEU:HD12	2.29	0.61
1:O:284:SER:O	1:O:290:MET:SD	2.59	0.61
1:O:302:LEU:HD21	1:O:307:CYS:O	2.00	0.61
1:S:120:PHE:HE1	1:S:124:ASN:OD1	1.84	0.61
1:S:183:LEU:CD2	1:S:186:CYS:HG	1.89	0.61
1:S:216:ASN:C	1:S:218:LYS:H	2.07	0.61
1:S:753:UNK:CB	1:S:810:UNK:O	2.49	0.61
1:U:120:PHE:HE1	1:U:124:ASN:OD1	1.84	0.61
1:U:146:ASN:ND2	1:U:253:TRP:HZ2	1.99	0.61
1:U:375:PHE:CE2	1:U:381:ILE:HD12	2.35	0.61
1:W:293:THR:O	1:W:296:GLU:N	2.34	0.61
1:W:322:ARG:HG3	1:W:322:ARG:NH1	2.16	0.61
1:W:488:ARG:HB2	1:W:494:PHE:HB2	1.82	0.61
1:Y:348:LYS:C	1:Y:352:ILE:HD13	2.25	0.61
1:a:200:LEU:CD1	1:a:228:LEU:HD12	2.29	0.61
1:c:39:ILE:O	1:c:40:LEU:HD22	1.99	0.61
1:c:322:ARG:HG3	1:c:322:ARG:NH1	2.16	0.61
1:c:374:VAL:HG23	1:c:375:PHE:CG	2.36	0.61
1:e:160:VAL:O	1:e:164:VAL:HG13	2.01	0.61
1:e:216:ASN:C	1:e:218:LYS:N	2.55	0.61
1:e:462:TYR:HE2	1:e:494:PHE:CE1	2.19	0.61
1:C:87:PHE:HE2	2:D:82:ARG:C	1.99	0.60
1:C:120:PHE:HE1	1:C:124:ASN:OD1	1.84	0.60
1:E:158:THR:HG22	3:E:2000:ADP:O3B	1.99	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:216:ASN:C	1:E:218:LYS:N	2.55	0.60
1:G:19:PHE:HZ	1:G:92:ILE:CG1	1.90	0.60
1:G:120:PHE:HE1	1:G:124:ASN:OD1	1.84	0.60
1:G:171:GLN:O	1:G:174:MET:N	2.32	0.60
1:I:216:ASN:C	1:I:218:LYS:H	2.07	0.60
1:I:284:SER:O	1:I:290:MET:SD	2.59	0.60
1:I:495:ARG:HH22	1:I:549:ILE:HG23	1.63	0.60
1:K:284:SER:O	1:K:290:MET:SD	2.59	0.60
1:K:469:SER:HA	1:K:523:PHE:CZ	2.36	0.60
1:K:561:LEU:HA	1:K:564:ILE:HD11	1.83	0.60
1:M:242:LEU:CD2	1:M:244:LEU:HD13	2.31	0.60
1:O:264:LEU:HD12	1:O:266:THR:OG1	2.00	0.60
1:O:753:UNK:CB	1:O:810:UNK:O	2.49	0.60
1:Q:48:ILE:HG21	1:Q:61:LEU:HB2	1.82	0.60
1:Q:73:VAL:O	1:Q:76:PHE:CB	2.45	0.60
1:Q:410:LEU:CD2	1:Q:426:TYR:CD1	2.80	0.60
1:S:253:TRP:O	1:S:254:ASN:C	2.44	0.60
1:S:405:LEU:CB	1:S:411:VAL:HG11	2.28	0.60
1:U:158:THR:HG22	3:U:2000:ADP:O1B	1.99	0.60
1:U:374:VAL:HG21	1:U:375:PHE:CE1	2.32	0.60
1:U:462:TYR:HE2	1:U:494:PHE:CE1	2.19	0.60
1:W:235:LYS:HE2	1:W:235:LYS:HA	1.83	0.60
1:W:374:VAL:HG23	1:W:375:PHE:CG	2.36	0.60
1:W:462:TYR:HE2	1:W:494:PHE:CE1	2.19	0.60
1:Y:48:ILE:HG21	1:Y:61:LEU:HB2	1.82	0.60
1:Y:357:LEU:HB3	1:Y:366:ARG:HD3	1.83	0.60
1:a:410:LEU:C	1:a:423:PRO:HD3	2.23	0.60
1:a:753:UNK:CB	1:a:810:UNK:O	2.49	0.60
1:c:242:LEU:CD2	1:c:244:LEU:HD13	2.31	0.60
1:c:293:THR:O	1:c:296:GLU:N	2.34	0.60
1:c:302:LEU:HD21	1:c:307:CYS:O	2.00	0.60
1:e:48:ILE:HG21	1:e:61:LEU:HB2	1.82	0.60
1:e:374:VAL:HG21	1:e:375:PHE:CE1	2.32	0.60
1:e:561:LEU:HA	1:e:564:ILE:HD11	1.83	0.60
1:A:187:ASN:O	1:A:187:ASN:ND2	2.35	0.60
1:A:242:LEU:CD2	1:A:244:LEU:CD1	2.78	0.60
1:C:184:LYS:HA	1:C:184:LYS:HE3	1.83	0.60
1:C:187:ASN:O	1:C:187:ASN:ND2	2.35	0.60
1:C:462:TYR:HE2	1:C:494:PHE:CE1	2.19	0.60
1:E:374:VAL:HG21	1:E:375:PHE:CE1	2.32	0.60
1:E:424:SER:HA	1:E:427:LEU:CB	2.12	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:462:TYR:HE2	1:E:494:PHE:CE1	2.19	0.60
1:G:200:LEU:CD1	1:G:228:LEU:HD12	2.29	0.60
2:H:64:GLU:O	2:H:65:LYS:C	2.44	0.60
1:I:187:ASN:O	1:I:187:ASN:ND2	2.35	0.60
1:I:253:TRP:O	1:I:254:ASN:C	2.44	0.60
1:I:543:LEU:O	1:I:547:PRO:HD2	2.00	0.60
1:K:158:THR:HG22	3:K:2000:ADP:O3B	1.99	0.60
1:K:160:VAL:O	1:K:164:VAL:HG13	2.01	0.60
1:K:187:ASN:O	1:K:187:ASN:ND2	2.35	0.60
1:M:293:THR:O	1:M:296:GLU:N	2.34	0.60
1:O:195:MET:HE1	1:O:198:LYS:CE	2.29	0.60
1:O:302:LEU:HD11	1:O:307:CYS:O	2.00	0.60
1:O:354:GLU:HG2	1:O:430:LYS:HZ2	1.66	0.60
1:O:356:SER:O	1:O:359:VAL:HG12	2.00	0.60
1:O:410:LEU:C	1:O:423:PRO:HD3	2.23	0.60
1:O:424:SER:HA	1:O:427:LEU:CB	2.12	0.60
1:Q:195:MET:HE1	1:Q:198:LYS:CE	2.29	0.60
1:Q:302:LEU:HD21	1:Q:307:CYS:O	2.00	0.60
1:Q:357:LEU:HB3	1:Q:366:ARG:HD3	1.83	0.60
1:S:242:LEU:CD2	1:S:262:ILE:HG21	2.30	0.60
2:T:64:GLU:O	2:T:65:LYS:C	2.44	0.60
1:U:753:UNK:CB	1:U:810:UNK:O	2.49	0.60
1:W:120:PHE:HE1	1:W:124:ASN:OD1	1.84	0.60
1:W:184:LYS:HA	1:W:184:LYS:HE3	1.83	0.60
1:W:187:ASN:ND2	1:W:187:ASN:O	2.35	0.60
1:W:410:LEU:CD1	1:W:411:VAL:H	2.06	0.60
1:W:410:LEU:CD2	1:W:426:TYR:CD1	2.80	0.60
1:Y:410:LEU:CD2	1:Y:426:TYR:CD1	2.80	0.60
1:a:356:SER:O	1:a:359:VAL:HG12	2.00	0.60
1:a:469:SER:HA	1:a:523:PHE:CZ	2.36	0.60
1:a:543:LEU:O	1:a:547:PRO:HD2	2.00	0.60
1:c:382:PRO:CB	1:c:463:LEU:HD22	2.20	0.60
1:e:187:ASN:O	1:e:187:ASN:ND2	2.35	0.60
1:e:302:LEU:HD21	1:e:307:CYS:O	2.00	0.60
1:e:469:SER:HA	1:e:523:PHE:CZ	2.36	0.60
1:A:48:ILE:HG21	1:A:61:LEU:HB2	1.82	0.60
1:A:253:TRP:O	1:A:254:ASN:C	2.44	0.60
1:A:357:LEU:HB3	1:A:366:ARG:HD3	1.83	0.60
1:C:374:VAL:HG23	1:C:375:PHE:CG	2.36	0.60
1:E:322:ARG:HG3	1:E:322:ARG:NH1	2.16	0.60
1:E:753:UNK:CB	1:E:810:UNK:O	2.49	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:216:ASN:C	1:G:218:LYS:H	2.07	0.60
1:G:242:LEU:CD2	1:G:262:ILE:HG21	2.30	0.60
2:H:22:LEU:HD21	2:H:76:LEU:HB2	1.83	0.60
1:I:357:LEU:HB3	1:I:366:ARG:HD3	1.83	0.60
1:I:372:LEU:HD11	1:I:422:ILE:HG12	1.82	0.60
1:I:488:ARG:HH11	1:I:488:ARG:HG2	1.63	0.60
1:K:118:GLN:C	1:K:120:PHE:N	2.58	0.60
1:M:302:LEU:HD21	1:M:307:CYS:O	2.00	0.60
2:N:22:LEU:HD21	2:N:76:LEU:HB2	1.83	0.60
1:O:469:SER:HA	1:O:523:PHE:CZ	2.36	0.60
1:O:518:LEU:CD2	1:O:646:UNK:C	2.52	0.60
1:Q:293:THR:O	1:Q:296:GLU:N	2.34	0.60
2:R:23:ASN:OD1	2:R:23:ASN:N	2.34	0.60
1:S:138:LEU:HD21	1:S:170:VAL:HG11	1.78	0.60
1:S:365:TYR:CD1	1:S:405:LEU:HD22	2.23	0.60
1:S:462:TYR:HE2	1:S:494:PHE:CE1	2.19	0.60
1:U:184:LYS:HE3	1:U:184:LYS:HA	1.83	0.60
2:V:22:LEU:HD21	2:V:76:LEU:HB2	1.83	0.60
1:W:160:VAL:O	1:W:164:VAL:HG13	2.01	0.60
1:Y:302:LEU:HD21	1:Y:307:CYS:O	2.00	0.60
1:Y:488:ARG:HB2	1:Y:494:PHE:HB2	1.82	0.60
2:Z:23:ASN:OD1	2:Z:23:ASN:N	2.34	0.60
1:a:354:GLU:HG2	1:a:430:LYS:HZ2	1.66	0.60
1:a:462:TYR:HE2	1:a:494:PHE:CE1	2.19	0.60
1:c:242:LEU:CD2	1:c:262:ILE:HG21	2.30	0.60
1:e:118:GLN:C	1:e:120:PHE:N	2.58	0.60
1:e:284:SER:O	1:e:290:MET:SD	2.59	0.60
1:A:356:SER:O	1:A:359:VAL:HG12	2.00	0.60
1:A:495:ARG:HH22	1:A:549:ILE:HG23	1.63	0.60
1:A:543:LEU:O	1:A:547:PRO:HD2	2.00	0.60
1:C:160:VAL:O	1:C:164:VAL:HG13	2.01	0.60
1:C:216:ASN:C	1:C:218:LYS:N	2.55	0.60
1:C:242:LEU:CD2	1:C:244:LEU:HD13	2.31	0.60
1:C:348:LYS:C	1:C:352:ILE:HD13	2.25	0.60
1:C:561:LEU:HA	1:C:564:ILE:HD11	1.83	0.60
1:E:48:ILE:HD11	1:E:64:THR:OG1	2.02	0.60
1:E:184:LYS:HA	1:E:184:LYS:HE3	1.83	0.60
1:E:275:LEU:HD13	1:E:275:LEU:N	2.17	0.60
1:E:376:PRO:HG2	1:E:470:HIS:CE1	2.37	0.60
2:F:22:LEU:HD21	2:F:76:LEU:HB2	1.83	0.60
1:G:284:SER:O	1:G:290:MET:SD	2.59	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:374:VAL:HG23	1:G:375:PHE:CG	2.36	0.60
1:G:376:PRO:HG2	1:G:470:HIS:CE1	2.37	0.60
1:G:462:TYR:HE2	1:G:494:PHE:CE1	2.19	0.60
1:I:48:ILE:HG21	1:I:61:LEU:HB2	1.82	0.60
1:I:242:LEU:CD2	1:I:244:LEU:CD1	2.78	0.60
1:K:374:VAL:HG21	1:K:375:PHE:CE1	2.32	0.60
1:O:374:VAL:HG23	1:O:375:PHE:CG	2.36	0.60
1:O:462:TYR:HE2	1:O:494:PHE:CE1	2.19	0.60
1:O:543:LEU:O	1:O:547:PRO:HD2	2.00	0.60
1:Q:48:ILE:HD11	1:Q:64:THR:OG1	2.02	0.60
1:Q:92:ILE:O	1:Q:93:LYS:C	2.44	0.60
1:Q:302:LEU:HD11	1:Q:307:CYS:O	2.00	0.60
1:Q:410:LEU:CD1	1:Q:411:VAL:H	2.06	0.60
1:Q:488:ARG:HB2	1:Q:494:PHE:HB2	1.82	0.60
1:Q:882:UNK:C	1:Q:883:UNK:CA	2.74	0.60
1:S:376:PRO:HG2	1:S:470:HIS:CE1	2.37	0.60
2:T:22:LEU:HD21	2:T:76:LEU:HB2	1.83	0.60
1:U:371:ARG:HB3	1:U:389:ILE:HD13	1.74	0.60
1:U:376:PRO:HG2	1:U:470:HIS:CE1	2.37	0.60
1:U:489:MET:CB	1:U:539:VAL:HB	2.31	0.60
1:W:87:PHE:CE2	2:X:82:ARG:C	2.75	0.60
1:W:216:ASN:C	1:W:218:LYS:N	2.55	0.60
1:W:242:LEU:CD2	1:W:244:LEU:HD13	2.31	0.60
1:Y:48:ILE:HD11	1:Y:64:THR:OG1	2.02	0.60
1:Y:73:VAL:O	1:Y:76:PHE:CB	2.45	0.60
1:Y:92:ILE:O	1:Y:93:LYS:C	2.44	0.60
1:Y:195:MET:HE1	1:Y:198:LYS:CE	2.29	0.60
1:Y:293:THR:O	1:Y:296:GLU:N	2.34	0.60
1:a:87:PHE:CE2	2:b:82:ARG:C	2.75	0.60
1:a:195:MET:HE1	1:a:198:LYS:CE	2.29	0.60
1:a:302:LEU:HD11	1:a:307:CYS:O	2.00	0.60
1:c:258:LEU:O	1:c:259:SER:CB	2.47	0.60
1:c:410:LEU:HA	1:c:426:TYR:HE1	1.65	0.60
2:d:22:LEU:HD21	2:d:76:LEU:HB2	1.83	0.60
1:e:158:THR:HG22	3:e:2000:ADP:O1B	1.99	0.60
1:e:376:PRO:HG2	1:e:470:HIS:CE1	2.37	0.60
1:e:495:ARG:HH22	1:e:549:ILE:HG21	1.66	0.60
1:A:120:PHE:HE1	1:A:124:ASN:OD1	1.84	0.60
1:A:372:LEU:HD11	1:A:422:ILE:HG12	1.82	0.60
1:A:376:PRO:HG2	1:A:470:HIS:CE1	2.37	0.60
1:A:561:LEU:HA	1:A:564:ILE:HD11	1.83	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:87:PHE:CE2	2:D:82:ARG:C	2.75	0.60
1:C:207:TRP:CZ3	1:C:209:SER:HA	2.37	0.60
1:C:285:LEU:O	1:C:285:LEU:HD23	2.02	0.60
1:C:374:VAL:CG2	1:C:375:PHE:CZ	2.85	0.60
1:C:405:LEU:CB	1:C:411:VAL:HG11	2.28	0.60
1:E:489:MET:CB	1:E:539:VAL:HB	2.31	0.60
1:G:187:ASN:O	1:G:187:ASN:ND2	2.35	0.60
1:G:354:GLU:HG2	1:G:430:LYS:NZ	2.17	0.60
1:G:469:SER:HA	1:G:523:PHE:CZ	2.36	0.60
1:G:522:LYS:O	1:G:526:PRO:HD2	2.02	0.60
1:I:376:PRO:HG2	1:I:470:HIS:CE1	2.37	0.60
1:K:48:ILE:C	1:K:50:MET:H	2.08	0.60
1:K:184:LYS:HA	1:K:184:LYS:HE3	1.83	0.60
1:K:285:LEU:O	1:K:285:LEU:HD23	2.02	0.60
1:K:376:PRO:HG2	1:K:470:HIS:CE1	2.37	0.60
1:K:410:LEU:CD2	1:K:426:TYR:CD1	2.80	0.60
1:M:242:LEU:CD2	1:M:262:ILE:HG21	2.30	0.60
1:M:410:LEU:HA	1:M:426:TYR:HE1	1.65	0.60
1:O:48:ILE:HG21	1:O:61:LEU:HB2	1.82	0.60
1:O:87:PHE:CE2	2:P:82:ARG:C	2.75	0.60
1:O:207:TRP:CZ3	1:O:209:SER:HA	2.37	0.60
1:O:293:THR:O	1:O:296:GLU:N	2.34	0.60
1:Q:243:VAL:CG1	1:Q:263:LEU:HD21	2.29	0.60
1:Q:275:LEU:HD13	1:Q:275:LEU:N	2.17	0.60
1:S:19:PHE:HZ	1:S:92:ILE:CG1	1.90	0.60
1:S:200:LEU:CD1	1:S:228:LEU:HD12	2.29	0.60
1:S:284:SER:O	1:S:290:MET:SD	2.59	0.60
1:S:354:GLU:HG2	1:S:430:LYS:NZ	2.17	0.60
1:S:374:VAL:HG23	1:S:375:PHE:CG	2.36	0.60
1:S:522:LYS:O	1:S:526:PRO:HD2	2.02	0.60
1:U:48:ILE:HD11	1:U:64:THR:OG1	2.02	0.60
1:U:242:LEU:CD2	1:U:244:LEU:HD13	2.31	0.60
1:U:275:LEU:HD13	1:U:275:LEU:N	2.17	0.60
1:U:322:ARG:HG3	1:U:322:ARG:NH1	2.16	0.60
1:U:488:ARG:HB2	1:U:494:PHE:HB2	1.82	0.60
1:W:207:TRP:CZ3	1:W:209:SER:HA	2.37	0.60
1:W:285:LEU:O	1:W:285:LEU:HD23	2.02	0.60
1:W:348:LYS:C	1:W:352:ILE:HD13	2.25	0.60
1:W:374:VAL:CG2	1:W:375:PHE:CZ	2.85	0.60
1:W:561:LEU:HA	1:W:564:ILE:HD11	1.83	0.60
1:Y:243:VAL:CG1	1:Y:263:LEU:HD21	2.29	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Y:275:LEU:HD13	1:Y:275:LEU:N	2.17	0.60
1:Y:302:LEU:HD11	1:Y:307:CYS:O	2.00	0.60
1:Y:469:SER:HA	1:Y:523:PHE:CZ	2.36	0.60
1:Y:882:UNK:C	1:Y:883:UNK:CA	2.74	0.60
1:a:146:ASN:ND2	1:a:253:TRP:HZ2	1.99	0.60
1:a:207:TRP:CZ3	1:a:209:SER:HA	2.37	0.60
1:a:489:MET:CB	1:a:539:VAL:HB	2.31	0.60
1:c:48:ILE:C	1:c:50:MET:H	2.08	0.60
1:c:250:ALA:HB1	1:c:274:PHE:CD2	2.37	0.60
1:c:495:ARG:HH22	1:c:549:ILE:HG21	1.66	0.60
1:e:48:ILE:C	1:e:50:MET:H	2.08	0.60
1:e:184:LYS:HE3	1:e:184:LYS:HA	1.83	0.60
1:e:253:TRP:O	1:e:254:ASN:C	2.44	0.60
1:e:285:LEU:HD23	1:e:285:LEU:O	2.02	0.60
1:A:495:ARG:HH22	1:A:549:ILE:HG21	1.66	0.60
1:E:48:ILE:HG21	1:E:61:LEU:HB2	1.82	0.60
1:E:207:TRP:CZ3	1:E:209:SER:HA	2.37	0.60
1:E:242:LEU:CD2	1:E:244:LEU:HD13	2.31	0.60
1:E:488:ARG:HB2	1:E:494:PHE:HB2	1.82	0.60
1:G:39:ILE:O	1:G:40:LEU:HD22	1.99	0.60
1:G:183:LEU:CD2	1:G:186:CYS:HG	1.89	0.60
1:G:365:TYR:CD1	1:G:405:LEU:HD22	2.23	0.60
1:I:120:PHE:HE1	1:I:124:ASN:OD1	1.84	0.60
1:I:275:LEU:HD13	1:I:275:LEU:N	2.17	0.60
1:I:356:SER:O	1:I:359:VAL:HG12	2.00	0.60
1:I:561:LEU:HA	1:I:564:ILE:HD11	1.83	0.60
1:K:253:TRP:O	1:K:254:ASN:C	2.44	0.60
1:K:495:ARG:HH22	1:K:549:ILE:HG21	1.66	0.60
1:M:48:ILE:C	1:M:50:MET:H	2.08	0.60
1:M:184:LYS:HA	1:M:184:LYS:HE3	1.83	0.60
1:M:242:LEU:CD2	1:M:244:LEU:CD1	2.78	0.60
1:M:250:ALA:HB1	1:M:274:PHE:CD2	2.37	0.60
1:M:376:PRO:HG2	1:M:470:HIS:CE1	2.37	0.60
1:M:382:PRO:CB	1:M:463:LEU:HD22	2.20	0.60
1:M:561:LEU:HA	1:M:564:ILE:HD11	1.83	0.60
1:O:146:ASN:ND2	1:O:253:TRP:HZ2	1.99	0.60
1:O:187:ASN:O	1:O:187:ASN:ND2	2.35	0.60
1:O:489:MET:CB	1:O:539:VAL:HB	2.31	0.60
2:P:22:LEU:HD21	2:P:76:LEU:HB2	1.83	0.60
1:Q:469:SER:HA	1:Q:523:PHE:CZ	2.36	0.60
1:S:187:ASN:O	1:S:187:ASN:ND2	2.35	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:S:469:SER:HA	1:S:523:PHE:CZ	2.36	0.60
1:U:207:TRP:CZ3	1:U:209:SER:HA	2.37	0.60
1:U:469:SER:HA	1:U:523:PHE:CZ	2.36	0.60
1:W:405:LEU:CB	1:W:411:VAL:HG11	2.28	0.60
1:Y:138:LEU:HD21	1:Y:170:VAL:HG11	1.78	0.60
1:Y:371:ARG:CB	1:Y:389:ILE:HG12	2.29	0.60
1:Y:374:VAL:HG23	1:Y:375:PHE:CG	2.36	0.60
1:Y:462:TYR:HE2	1:Y:494:PHE:CE1	2.19	0.60
1:Y:538:LEU:HD21	1:Y:572:ALA:N	2.14	0.60
1:a:187:ASN:O	1:a:187:ASN:ND2	2.35	0.60
1:a:374:VAL:HG23	1:a:375:PHE:CG	2.36	0.60
2:b:22:LEU:HD21	2:b:76:LEU:HB2	1.83	0.60
1:c:184:LYS:HA	1:c:184:LYS:HE3	1.83	0.60
1:e:242:LEU:CD2	1:e:262:ILE:HG21	2.30	0.60
1:e:410:LEU:CD2	1:e:426:TYR:CD1	2.80	0.60
1:e:410:LEU:HA	1:e:423:PRO:CG	2.26	0.60
1:A:242:LEU:CD2	1:A:244:LEU:HD13	2.31	0.60
1:A:275:LEU:HD13	1:A:275:LEU:N	2.17	0.60
1:A:522:LYS:O	1:A:526:PRO:HD2	2.02	0.60
2:B:64:GLU:O	2:B:65:LYS:C	2.44	0.60
1:C:195:MET:HE1	1:C:198:LYS:CE	2.29	0.60
2:D:22:LEU:HD21	2:D:76:LEU:HB2	1.83	0.60
1:E:235:LYS:HE2	1:E:238:GLU:CG	2.28	0.60
1:E:264:LEU:O	1:E:264:LEU:HG	2.00	0.60
1:E:264:LEU:HD12	1:E:266:THR:OG1	2.00	0.60
1:E:348:LYS:C	1:E:352:ILE:HD13	2.25	0.60
1:E:469:SER:HA	1:E:523:PHE:CZ	2.36	0.60
1:E:522:LYS:O	1:E:526:PRO:HD2	2.02	0.60
1:G:138:LEU:HD21	1:G:170:VAL:HG11	1.78	0.60
1:G:170:VAL:HG12	1:G:170:VAL:O	2.02	0.60
1:G:184:LYS:HA	1:G:184:LYS:HE3	1.83	0.60
1:G:285:LEU:O	1:G:285:LEU:HD23	2.02	0.60
1:I:469:SER:HA	1:I:523:PHE:CZ	2.36	0.60
1:I:495:ARG:HH22	1:I:549:ILE:HG21	1.66	0.60
1:I:522:LYS:O	1:I:526:PRO:HD2	2.02	0.60
1:K:146:ASN:ND2	1:K:253:TRP:HZ2	1.99	0.60
1:K:410:LEU:HA	1:K:423:PRO:CG	2.26	0.60
1:K:882:UNK:C	1:K:883:UNK:CA	2.74	0.60
1:M:258:LEU:O	1:M:259:SER:CB	2.47	0.60
1:M:275:LEU:HD13	1:M:275:LEU:N	2.17	0.60
1:M:356:SER:O	1:M:359:VAL:HG12	2.00	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:357:LEU:HB3	1:M:366:ARG:HD3	1.83	0.60
1:M:495:ARG:HH22	1:M:549:ILE:HG21	1.66	0.60
1:O:48:ILE:C	1:O:50:MET:H	2.08	0.60
1:O:374:VAL:CG2	1:O:375:PHE:CZ	2.85	0.60
1:O:410:LEU:CD1	1:O:411:VAL:H	2.06	0.60
1:Q:284:SER:O	1:Q:290:MET:SD	2.59	0.60
1:Q:538:LEU:HD21	1:Q:572:ALA:N	2.14	0.60
1:Q:561:LEU:HA	1:Q:564:ILE:HD11	1.83	0.60
1:S:170:VAL:HG12	1:S:170:VAL:O	2.02	0.60
1:S:285:LEU:O	1:S:285:LEU:HD23	2.02	0.60
1:U:48:ILE:HG21	1:U:61:LEU:HB2	1.82	0.60
1:U:235:LYS:HE2	1:U:238:GLU:CG	2.28	0.60
1:U:342:LYS:HG3	1:U:343:HIS:N	2.17	0.60
1:U:522:LYS:O	1:U:526:PRO:HD2	2.02	0.60
1:W:146:ASN:ND2	1:W:253:TRP:HZ2	1.99	0.60
2:X:22:LEU:HD21	2:X:76:LEU:HB2	1.83	0.60
1:Y:284:SER:O	1:Y:290:MET:SD	2.59	0.60
1:Y:374:VAL:CG2	1:Y:375:PHE:CZ	2.85	0.60
1:a:48:ILE:HG21	1:a:61:LEU:HB2	1.82	0.60
1:a:253:TRP:O	1:a:254:ASN:C	2.44	0.60
1:a:293:THR:O	1:a:296:GLU:N	2.34	0.60
1:a:518:LEU:CD2	1:a:646:UNK:C	2.52	0.60
1:c:242:LEU:CD2	1:c:244:LEU:CD1	2.78	0.60
1:c:253:TRP:O	1:c:254:ASN:C	2.44	0.60
1:c:357:LEU:HB3	1:c:366:ARG:HD3	1.83	0.60
1:c:376:PRO:HG2	1:c:470:HIS:CE1	2.37	0.60
1:c:561:LEU:HA	1:c:564:ILE:HD11	1.83	0.60
2:d:18:ILE:HG12	2:d:106:LEU:HD11	1.84	0.60
1:e:146:ASN:ND2	1:e:253:TRP:HZ2	1.99	0.60
1:e:275:LEU:HD13	1:e:275:LEU:N	2.17	0.60
1:e:522:LYS:O	1:e:526:PRO:HD2	2.02	0.60
1:A:242:LEU:CD2	1:A:262:ILE:HG21	2.30	0.60
1:C:146:ASN:ND2	1:C:253:TRP:HZ2	1.99	0.60
1:C:372:LEU:HD11	1:C:422:ILE:HG12	1.82	0.60
1:C:376:PRO:HG2	1:C:470:HIS:CE1	2.37	0.60
1:C:469:SER:HA	1:C:523:PHE:CZ	2.36	0.60
1:E:342:LYS:HG3	1:E:343:HIS:N	2.17	0.60
1:E:518:LEU:CD2	1:E:646:UNK:C	2.52	0.60
1:E:561:LEU:HA	1:E:564:ILE:HD11	1.83	0.60
1:G:102:MET:HA	1:G:105:MET:HB3	1.84	0.60
1:G:247:VAL:CG2	1:G:264:LEU:HB2	2.32	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:48:ILE:HD11	1:I:64:THR:OG1	2.02	0.60
1:I:73:VAL:O	1:I:76:PHE:CB	2.45	0.60
1:I:102:MET:HA	1:I:105:MET:HB3	1.84	0.60
1:I:242:LEU:CD2	1:I:244:LEU:HD13	2.31	0.60
2:J:64:GLU:O	2:J:65:LYS:C	2.44	0.60
1:K:242:LEU:CD2	1:K:262:ILE:HG21	2.30	0.60
1:K:275:LEU:HD13	1:K:275:LEU:N	2.17	0.60
1:K:522:LYS:O	1:K:526:PRO:HD2	2.02	0.60
1:M:253:TRP:O	1:M:254:ASN:C	2.44	0.60
2:N:18:ILE:HG12	2:N:106:LEU:HD11	1.84	0.60
1:O:357:LEU:HB3	1:O:366:ARG:HD3	1.83	0.60
1:Q:216:ASN:C	1:Q:218:LYS:N	2.55	0.60
1:Q:242:LEU:CD2	1:Q:244:LEU:HD13	2.31	0.60
1:Q:264:LEU:HD12	1:Q:266:THR:OG1	2.00	0.60
1:Q:374:VAL:HG23	1:Q:375:PHE:CG	2.36	0.60
1:Q:462:TYR:HE2	1:Q:494:PHE:CE1	2.19	0.60
1:S:39:ILE:O	1:S:40:LEU:HD22	1.99	0.60
1:S:102:MET:HA	1:S:105:MET:HB3	1.84	0.60
1:S:146:ASN:ND2	1:S:253:TRP:HZ2	1.99	0.60
1:S:184:LYS:HA	1:S:184:LYS:HE3	1.83	0.60
1:S:247:VAL:CG2	1:S:264:LEU:HB2	2.32	0.60
1:U:264:LEU:O	1:U:264:LEU:HG	2.00	0.60
1:U:348:LYS:C	1:U:352:ILE:HD13	2.25	0.60
1:U:424:SER:HA	1:U:427:LEU:CB	2.12	0.60
1:W:195:MET:HE1	1:W:198:LYS:CE	2.29	0.60
1:W:365:TYR:CD1	1:W:405:LEU:HD22	2.23	0.60
1:W:469:SER:HA	1:W:523:PHE:CZ	2.36	0.60
1:Y:216:ASN:C	1:Y:218:LYS:N	2.55	0.60
1:a:48:ILE:HD11	1:a:64:THR:OG1	2.02	0.60
1:a:242:LEU:CD2	1:a:244:LEU:HD13	2.31	0.60
1:a:275:LEU:HD13	1:a:275:LEU:N	2.17	0.60
1:a:374:VAL:CG2	1:a:375:PHE:CZ	2.85	0.60
1:a:410:LEU:HA	1:a:423:PRO:CG	2.26	0.60
1:a:424:SER:HA	1:a:427:LEU:CB	2.12	0.60
1:c:200:LEU:CD1	1:c:228:LEU:HD12	2.29	0.60
1:c:275:LEU:HD13	1:c:275:LEU:N	2.17	0.60
1:c:356:SER:O	1:c:359:VAL:HG12	2.00	0.60
1:c:522:LYS:O	1:c:526:PRO:HD2	2.02	0.60
1:A:48:ILE:HD11	1:A:64:THR:OG1	2.02	0.60
1:A:102:MET:HA	1:A:105:MET:HB3	1.84	0.60
1:A:469:SER:HA	1:A:523:PHE:CZ	2.36	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:D:23:ASN:N	2:D:23:ASN:OD1	2.34	0.60
1:E:247:VAL:CG2	1:E:264:LEU:HB2	2.32	0.60
1:E:285:LEU:O	1:E:285:LEU:HD23	2.02	0.60
2:F:18:ILE:HG12	2:F:106:LEU:HD11	1.84	0.60
1:G:146:ASN:ND2	1:G:253:TRP:HZ2	1.99	0.60
1:I:242:LEU:CD2	1:I:262:ILE:HG21	2.30	0.60
1:K:102:MET:HA	1:K:105:MET:HB3	1.84	0.60
1:M:157:LYS:CA	1:M:285:LEU:CD1	2.76	0.60
1:M:200:LEU:CD1	1:M:228:LEU:HD12	2.29	0.60
1:M:243:VAL:CG1	1:M:263:LEU:HD21	2.29	0.60
1:M:522:LYS:O	1:M:526:PRO:HD2	2.02	0.60
1:O:48:ILE:HD11	1:O:64:THR:OG1	2.02	0.60
1:O:242:LEU:CD2	1:O:244:LEU:HD13	2.31	0.60
1:O:253:TRP:O	1:O:254:ASN:C	2.44	0.60
1:O:275:LEU:HD13	1:O:275:LEU:N	2.17	0.60
1:O:342:LYS:HG3	1:O:343:HIS:N	2.17	0.60
1:O:410:LEU:HA	1:O:423:PRO:CG	2.26	0.60
1:O:488:ARG:HB2	1:O:494:PHE:HB2	1.82	0.60
1:Q:120:PHE:HE1	1:Q:124:ASN:OD1	1.84	0.60
1:Q:285:LEU:O	1:Q:285:LEU:HD23	2.02	0.60
1:Q:371:ARG:CB	1:Q:389:ILE:HG12	2.29	0.60
1:S:48:ILE:HD11	1:S:64:THR:OG1	2.02	0.60
1:S:207:TRP:CZ3	1:S:209:SER:HA	2.37	0.60
1:U:247:VAL:CG2	1:U:264:LEU:HB2	2.32	0.60
1:U:250:ALA:HB1	1:U:274:PHE:CD2	2.37	0.60
1:U:264:LEU:HD12	1:U:266:THR:OG1	2.00	0.60
1:U:285:LEU:O	1:U:285:LEU:HD23	2.02	0.60
1:U:561:LEU:HA	1:U:564:ILE:HD11	1.83	0.60
1:W:376:PRO:HG2	1:W:470:HIS:CE1	2.37	0.60
1:Y:242:LEU:CD2	1:Y:244:LEU:HD13	2.31	0.60
1:Y:410:LEU:CD1	1:Y:411:VAL:H	2.06	0.60
1:Y:561:LEU:HA	1:Y:564:ILE:HD11	1.83	0.60
1:a:357:LEU:HB3	1:a:366:ARG:HD3	1.83	0.60
2:b:23:ASN:OD1	2:b:23:ASN:N	2.34	0.60
1:c:157:LYS:CA	1:c:285:LEU:CD1	2.76	0.60
1:c:187:ASN:ND2	1:c:187:ASN:O	2.35	0.60
1:e:102:MET:HA	1:e:105:MET:HB3	1.84	0.60
1:e:354:GLU:HG2	1:e:430:LYS:NZ	2.17	0.60
1:e:410:LEU:CD1	1:e:411:VAL:H	2.06	0.60
1:e:882:UNK:C	1:e:883:UNK:CA	2.74	0.60
1:A:170:VAL:O	1:A:170:VAL:HG12	2.02	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:207:TRP:CZ3	1:A:209:SER:HA	2.37	0.60
1:C:48:ILE:HD11	1:C:64:THR:OG1	2.02	0.60
1:C:279:THR:HG23	1:C:280:THR:HG23	1.82	0.60
1:E:39:ILE:O	1:E:40:LEU:HD22	1.99	0.60
1:E:250:ALA:HB1	1:E:274:PHE:CD2	2.37	0.60
1:E:354:GLU:HG2	1:E:430:LYS:NZ	2.17	0.60
1:G:48:ILE:HD11	1:G:64:THR:OG1	2.02	0.60
1:G:207:TRP:CZ3	1:G:209:SER:HA	2.37	0.60
1:G:354:GLU:HG2	1:G:430:LYS:HZ2	1.65	0.60
1:K:207:TRP:CZ3	1:K:209:SER:HA	2.37	0.60
1:K:242:LEU:CD2	1:K:244:LEU:HD13	2.31	0.60
1:K:242:LEU:CD2	1:K:244:LEU:CD1	2.78	0.60
1:K:354:GLU:HG2	1:K:430:LYS:NZ	2.17	0.60
1:K:357:LEU:CD1	1:K:430:LYS:HZ3	2.05	0.60
1:K:357:LEU:HB3	1:K:366:ARG:HD3	1.83	0.60
1:M:187:ASN:O	1:M:187:ASN:ND2	2.35	0.60
1:O:216:ASN:C	1:O:218:LYS:N	2.55	0.60
2:P:23:ASN:N	2:P:23:ASN:OD1	2.34	0.60
1:Q:138:LEU:HD21	1:Q:170:VAL:HG11	1.78	0.60
1:Q:184:LYS:HE3	1:Q:184:LYS:HA	1.83	0.60
2:R:22:LEU:HD21	2:R:76:LEU:HB2	1.83	0.60
1:U:354:GLU:HG2	1:U:430:LYS:NZ	2.17	0.60
2:V:18:ILE:HG12	2:V:106:LEU:HD11	1.84	0.60
1:W:317:LEU:O	1:W:318:THR:OG1	2.20	0.60
2:X:23:ASN:N	2:X:23:ASN:OD1	2.34	0.60
1:Y:87:PHE:CE2	2:Z:82:ARG:C	2.75	0.60
1:Y:120:PHE:HE1	1:Y:124:ASN:OD1	1.84	0.60
1:Y:138:LEU:HD21	1:Y:170:VAL:CG1	2.31	0.60
1:Y:264:LEU:HD12	1:Y:266:THR:OG1	2.00	0.60
1:Y:285:LEU:O	1:Y:285:LEU:HD23	2.02	0.60
2:Z:22:LEU:HD21	2:Z:76:LEU:HB2	1.83	0.60
2:Z:81:GLN:HA	2:Z:81:GLN:NE2	2.08	0.60
1:a:11:GLN:OE1	1:a:70:GLU:CD	2.43	0.60
1:a:48:ILE:C	1:a:50:MET:H	2.08	0.60
1:a:264:LEU:O	1:a:264:LEU:HG	2.00	0.60
1:a:342:LYS:HG3	1:a:343:HIS:N	2.17	0.60
1:a:488:ARG:HB2	1:a:494:PHE:HB2	1.82	0.60
1:c:285:LEU:O	1:c:285:LEU:HD23	2.02	0.60
1:c:342:LYS:HG3	1:c:343:HIS:N	2.17	0.60
1:c:462:TYR:HE2	1:c:494:PHE:CE1	2.19	0.60
1:A:12:TYR:CD1	1:A:96:GLN:OE1	2.55	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:73:VAL:O	1:A:76:PHE:CB	2.45	0.59
1:A:374:VAL:HG23	1:A:375:PHE:CG	2.36	0.59
1:C:118:GLN:C	1:C:120:PHE:N	2.58	0.59
1:C:284:SER:O	1:C:290:MET:SD	2.59	0.59
1:C:365:TYR:CD1	1:C:405:LEU:HD22	2.23	0.59
2:D:18:ILE:HG12	2:D:106:LEU:HD11	1.84	0.59
1:E:102:MET:HA	1:E:105:MET:HB3	1.84	0.59
1:E:187:ASN:O	1:E:187:ASN:ND2	2.35	0.59
1:E:284:SER:O	1:E:290:MET:SD	2.59	0.59
1:G:48:ILE:HG21	1:G:61:LEU:HB2	1.82	0.59
1:G:357:LEU:HB3	1:G:366:ARG:HD3	1.83	0.59
1:I:12:TYR:CD1	1:I:96:GLN:OE1	2.55	0.59
1:I:170:VAL:O	1:I:170:VAL:HG12	2.02	0.59
1:I:374:VAL:HG23	1:I:375:PHE:CG	2.36	0.59
1:I:405:LEU:CB	1:I:411:VAL:HG11	2.28	0.59
1:K:250:ALA:HB1	1:K:274:PHE:CD2	2.37	0.59
1:M:285:LEU:O	1:M:285:LEU:HD23	2.02	0.59
1:M:342:LYS:HG3	1:M:343:HIS:N	2.17	0.59
1:M:538:LEU:HD21	1:M:572:ALA:N	2.14	0.59
1:O:184:LYS:HA	1:O:184:LYS:HE3	1.83	0.59
1:Q:87:PHE:CE2	2:R:82:ARG:C	2.75	0.59
1:Q:235:LYS:HE2	1:Q:235:LYS:HA	1.83	0.59
1:S:48:ILE:HG21	1:S:61:LEU:HB2	1.82	0.59
1:S:275:LEU:HD13	1:S:275:LEU:N	2.17	0.59
1:U:284:SER:O	1:U:290:MET:SD	2.59	0.59
1:W:48:ILE:HD11	1:W:64:THR:OG1	2.02	0.59
1:W:178:ILE:CG2	1:W:241:LEU:O	2.50	0.59
1:W:284:SER:O	1:W:290:MET:SD	2.59	0.59
1:W:372:LEU:HD11	1:W:422:ILE:HG12	1.82	0.59
2:X:18:ILE:HG12	2:X:106:LEU:HD11	1.84	0.59
1:Y:184:LYS:HE3	1:Y:184:LYS:HA	1.83	0.59
1:Y:253:TRP:O	1:Y:254:ASN:C	2.44	0.59
1:a:250:ALA:HB1	1:a:274:PHE:CD2	2.37	0.59
1:a:410:LEU:CD1	1:a:411:VAL:H	2.06	0.59
1:a:495:ARG:HH22	1:a:549:ILE:HG21	1.66	0.59
1:c:538:LEU:HD21	1:c:572:ALA:N	2.14	0.59
1:e:207:TRP:CZ3	1:e:209:SER:HA	2.37	0.59
1:e:357:LEU:HB3	1:e:366:ARG:HD3	1.83	0.59
1:A:86:LYS:HE3	1:A:89:MET:HE1	1.84	0.59
1:A:405:LEU:CB	1:A:411:VAL:HG11	2.28	0.59
1:C:178:ILE:CG2	1:C:241:LEU:O	2.50	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:200:LEU:CD1	1:C:228:LEU:HD12	2.29	0.59
1:C:264:LEU:O	1:C:264:LEU:HG	2.00	0.59
1:E:86:LYS:HE3	1:E:89:MET:HE1	1.84	0.59
1:E:170:VAL:O	1:E:170:VAL:HG12	2.02	0.59
1:G:250:ALA:HB1	1:G:274:PHE:CD2	2.37	0.59
1:I:207:TRP:CZ3	1:I:209:SER:HA	2.37	0.59
1:I:285:LEU:O	1:I:285:LEU:HD23	2.02	0.59
1:K:317:LEU:O	1:K:318:THR:OG1	2.20	0.59
2:L:23:ASN:N	2:L:23:ASN:OD1	2.34	0.59
1:M:146:ASN:ND2	1:M:253:TRP:HZ2	1.99	0.59
1:M:160:VAL:O	1:M:164:VAL:HG13	2.01	0.59
1:M:462:TYR:HE2	1:M:494:PHE:CE1	2.19	0.59
1:O:73:VAL:O	1:O:76:PHE:CB	2.45	0.59
1:O:250:ALA:HB1	1:O:274:PHE:CD2	2.37	0.59
1:O:264:LEU:O	1:O:264:LEU:HG	2.00	0.59
1:O:495:ARG:HH22	1:O:549:ILE:HG21	1.66	0.59
2:P:18:ILE:HG12	2:P:106:LEU:HD11	1.84	0.59
1:Q:138:LEU:HD21	1:Q:170:VAL:CG1	2.31	0.59
1:Q:178:ILE:CG2	1:Q:241:LEU:O	2.50	0.59
1:S:250:ALA:HB1	1:S:274:PHE:CD2	2.37	0.59
1:S:357:LEU:HB3	1:S:366:ARG:HD3	1.83	0.59
1:U:518:LEU:CD2	1:U:646:UNK:C	2.52	0.59
1:W:118:GLN:C	1:W:120:PHE:N	2.58	0.59
1:W:200:LEU:CD1	1:W:228:LEU:HD12	2.29	0.59
1:W:264:LEU:O	1:W:264:LEU:HG	2.00	0.59
1:W:275:LEU:HD13	1:W:275:LEU:N	2.17	0.59
1:Y:178:ILE:CG2	1:Y:241:LEU:O	2.50	0.59
1:a:184:LYS:HE3	1:a:184:LYS:HA	1.83	0.59
1:a:216:ASN:C	1:a:218:LYS:N	2.55	0.59
1:a:360:LEU:CG	1:a:365:TYR:CB	2.48	0.59
1:a:522:LYS:O	1:a:526:PRO:HD2	2.02	0.59
1:c:374:VAL:HG21	1:c:375:PHE:CE1	2.32	0.59
1:e:157:LYS:CA	1:e:285:LEU:CD1	2.76	0.59
1:e:242:LEU:CD2	1:e:244:LEU:CD1	2.78	0.59
1:e:242:LEU:CD2	1:e:244:LEU:HD13	2.31	0.59
1:e:250:ALA:HB1	1:e:274:PHE:CD2	2.37	0.59
2:f:64:GLU:O	2:f:65:LYS:C	2.44	0.59
1:A:250:ALA:HB1	1:A:274:PHE:CD2	2.37	0.59
1:A:489:MET:CB	1:A:539:VAL:HB	2.31	0.59
1:C:92:ILE:O	1:C:93:LYS:C	2.44	0.59
1:C:170:VAL:HG12	1:C:170:VAL:O	2.02	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:275:LEU:HD13	1:C:275:LEU:N	2.17	0.59
1:C:538:LEU:HD21	1:C:572:ALA:N	2.14	0.59
1:G:12:TYR:CD1	1:G:96:GLN:OE1	2.55	0.59
1:G:92:ILE:O	1:G:93:LYS:C	2.44	0.59
1:G:275:LEU:HD13	1:G:275:LEU:N	2.17	0.59
1:G:371:ARG:HB3	1:G:389:ILE:HD13	1.74	0.59
1:I:86:LYS:HE3	1:I:89:MET:HE1	1.84	0.59
1:I:424:SER:HA	1:I:427:LEU:CB	2.12	0.59
2:J:94:LEU:HA	2:J:97:ILE:HG12	1.84	0.59
1:O:522:LYS:O	1:O:526:PRO:HD2	2.02	0.59
1:Q:160:VAL:O	1:Q:164:VAL:HG13	2.01	0.59
1:Q:170:VAL:O	1:Q:170:VAL:HG12	2.02	0.59
1:Q:207:TRP:CZ3	1:Q:209:SER:HA	2.37	0.59
1:Q:229:ARG:HG2	1:Q:229:ARG:NH2	2.13	0.59
1:Q:253:TRP:O	1:Q:254:ASN:C	2.44	0.59
1:Q:264:LEU:HG	1:Q:264:LEU:O	2.00	0.59
1:Q:371:ARG:HB3	1:Q:389:ILE:HD13	1.74	0.59
2:R:81:GLN:HA	2:R:81:GLN:NE2	2.08	0.59
1:U:11:GLN:OE1	1:U:70:GLU:CD	2.43	0.59
1:U:39:ILE:O	1:U:40:LEU:HD22	1.99	0.59
1:U:86:LYS:HE3	1:U:89:MET:HE1	1.84	0.59
1:U:170:VAL:O	1:U:170:VAL:HG12	2.02	0.59
1:U:178:ILE:CG2	1:U:241:LEU:O	2.50	0.59
1:U:187:ASN:O	1:U:187:ASN:ND2	2.35	0.59
1:W:48:ILE:HG21	1:W:61:LEU:HB2	1.82	0.59
1:W:538:LEU:HD21	1:W:572:ALA:N	2.14	0.59
1:Y:170:VAL:O	1:Y:170:VAL:HG12	2.02	0.59
1:Y:200:LEU:CD1	1:Y:228:LEU:HD12	2.29	0.59
1:Y:207:TRP:CZ3	1:Y:209:SER:HA	2.37	0.59
1:Y:235:LYS:HE2	1:Y:235:LYS:HA	1.83	0.59
2:b:18:ILE:HG12	2:b:106:LEU:HD11	1.84	0.59
2:b:94:LEU:HA	2:b:97:ILE:HG12	1.85	0.59
1:c:48:ILE:HD11	1:c:64:THR:OG1	2.02	0.59
1:c:146:ASN:ND2	1:c:253:TRP:HZ2	1.99	0.59
2:d:94:LEU:HA	2:d:97:ILE:HG12	1.84	0.59
2:f:18:ILE:HG12	2:f:106:LEU:HD11	1.84	0.59
2:f:23:ASN:OD1	2:f:23:ASN:N	2.34	0.59
1:A:146:ASN:ND2	1:A:253:TRP:HZ2	1.99	0.59
1:A:285:LEU:O	1:A:285:LEU:HD23	2.02	0.59
1:A:342:LYS:HG3	1:A:343:HIS:N	2.17	0.59
2:B:94:LEU:HA	2:B:97:ILE:HG12	1.84	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:48:ILE:HG21	1:C:61:LEU:HB2	1.82	0.59
1:C:133:LYS:C	1:C:283:ILE:HD11	2.28	0.59
1:C:522:LYS:O	1:C:526:PRO:HD2	2.02	0.59
1:E:178:ILE:CG2	1:E:241:LEU:O	2.50	0.59
1:E:357:LEU:HB3	1:E:366:ARG:HD3	1.83	0.59
1:I:184:LYS:HA	1:I:184:LYS:HE3	1.83	0.59
1:I:342:LYS:HG3	1:I:343:HIS:N	2.17	0.59
1:I:354:GLU:HG2	1:I:430:LYS:NZ	2.17	0.59
1:I:410:LEU:CD2	1:I:426:TYR:CD1	2.80	0.59
1:I:489:MET:CB	1:I:539:VAL:HB	2.31	0.59
2:L:64:GLU:O	2:L:65:LYS:C	2.44	0.59
2:L:94:LEU:HA	2:L:97:ILE:HG12	1.85	0.59
1:M:102:MET:HA	1:M:105:MET:HB3	1.84	0.59
1:M:133:LYS:C	1:M:283:ILE:HD11	2.28	0.59
1:M:576:GLU:O	1:M:580:GLN:HG2	2.03	0.59
2:N:94:LEU:HA	2:N:97:ILE:HG12	1.84	0.59
2:P:94:LEU:HA	2:P:97:ILE:HG12	1.85	0.59
1:Q:354:GLU:HG2	1:Q:430:LYS:NZ	2.17	0.59
1:S:12:TYR:CD1	1:S:96:GLN:OE1	2.55	0.59
1:S:369:PHE:HZ	1:S:410:LEU:CD2	2.06	0.59
1:S:495:ARG:HH22	1:S:549:ILE:HG21	1.66	0.59
2:V:94:LEU:HA	2:V:97:ILE:HG12	1.84	0.59
1:W:92:ILE:O	1:W:93:LYS:C	2.44	0.59
1:W:133:LYS:C	1:W:283:ILE:HD11	2.28	0.59
1:Y:160:VAL:O	1:Y:164:VAL:HG13	2.01	0.59
1:Y:187:ASN:O	1:Y:187:ASN:ND2	2.35	0.59
1:Y:354:GLU:HG2	1:Y:430:LYS:NZ	2.17	0.59
1:a:73:VAL:O	1:a:76:PHE:CB	2.45	0.59
1:a:322:ARG:HG3	1:a:322:ARG:NH1	2.16	0.59
1:a:371:ARG:CB	1:a:389:ILE:HG12	2.29	0.59
1:a:376:PRO:HG2	1:a:470:HIS:CE1	2.37	0.59
1:c:102:MET:HA	1:c:105:MET:HB3	1.84	0.59
1:c:133:LYS:C	1:c:283:ILE:HD11	2.28	0.59
1:c:160:VAL:O	1:c:164:VAL:HG13	2.01	0.59
1:e:120:PHE:HE1	1:e:124:ASN:OD1	1.84	0.59
2:f:94:LEU:HA	2:f:97:ILE:HG12	1.85	0.59
1:A:184:LYS:HA	1:A:184:LYS:HE3	1.83	0.59
1:A:410:LEU:HA	1:A:426:TYR:HE1	1.65	0.59
1:C:557:LYS:CE	1:C:558:TYR:H	2.16	0.59
2:D:94:LEU:HA	2:D:97:ILE:HG12	1.85	0.59
2:F:94:LEU:HA	2:F:97:ILE:HG12	1.84	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:495:ARG:HH22	1:G:549:ILE:HG21	1.66	0.59
1:I:146:ASN:ND2	1:I:253:TRP:HZ2	1.99	0.59
1:I:250:ALA:HB1	1:I:274:PHE:CD2	2.37	0.59
1:I:410:LEU:HA	1:I:426:TYR:HE1	1.65	0.59
1:K:157:LYS:CA	1:K:285:LEU:CD1	2.76	0.59
1:K:247:VAL:CG2	1:K:264:LEU:HB2	2.32	0.59
1:K:322:ARG:HG3	1:K:322:ARG:NH1	2.16	0.59
2:L:18:ILE:HG12	2:L:106:LEU:HD11	1.84	0.59
1:M:48:ILE:HD11	1:M:64:THR:OG1	2.02	0.59
1:M:247:VAL:CG2	1:M:264:LEU:HB2	2.32	0.59
1:M:354:GLU:HG2	1:M:430:LYS:NZ	2.17	0.59
1:O:557:LYS:CE	1:O:558:TYR:H	2.16	0.59
1:Q:187:ASN:O	1:Q:187:ASN:ND2	2.35	0.59
1:Q:200:LEU:CD1	1:Q:228:LEU:HD12	2.29	0.59
1:Q:518:LEU:O	1:Q:522:LYS:HG2	2.03	0.59
1:Q:557:LYS:CE	1:Q:558:TYR:H	2.16	0.59
2:R:94:LEU:HA	2:R:97:ILE:HG12	1.84	0.59
1:S:92:ILE:O	1:S:93:LYS:C	2.44	0.59
1:S:133:LYS:C	1:S:283:ILE:HD11	2.28	0.59
1:U:15:ILE:CD1	1:U:95:GLU:O	2.51	0.59
1:W:138:LEU:HD21	1:W:170:VAL:CG1	2.31	0.59
1:W:170:VAL:HG12	1:W:170:VAL:O	2.02	0.59
1:W:522:LYS:O	1:W:526:PRO:HD2	2.02	0.59
2:X:94:LEU:HA	2:X:97:ILE:HG12	1.85	0.59
1:Y:229:ARG:HG2	1:Y:229:ARG:NH2	2.13	0.59
1:Y:264:LEU:O	1:Y:264:LEU:HG	2.00	0.59
1:Y:518:LEU:O	1:Y:522:LYS:HG2	2.03	0.59
1:Y:557:LYS:CE	1:Y:558:TYR:H	2.16	0.59
1:a:561:LEU:HA	1:a:564:ILE:HD11	1.83	0.59
1:c:354:GLU:HG2	1:c:430:LYS:NZ	2.17	0.59
1:c:576:GLU:O	1:c:580:GLN:HG2	2.03	0.59
2:d:64:GLU:O	2:d:65:LYS:C	2.44	0.59
1:e:247:VAL:CG2	1:e:264:LEU:HB2	2.32	0.59
1:A:133:LYS:C	1:A:283:ILE:HD11	2.28	0.59
1:A:235:LYS:HE2	1:A:238:GLU:CG	2.28	0.59
1:A:354:GLU:HG2	1:A:430:LYS:NZ	2.17	0.59
1:A:410:LEU:CD2	1:A:426:TYR:CD1	2.80	0.59
1:C:235:LYS:NZ	1:C:238:GLU:HG2	2.18	0.59
1:E:15:ILE:CD1	1:E:95:GLU:O	2.51	0.59
1:G:133:LYS:C	1:G:283:ILE:HD11	2.28	0.59
1:G:374:VAL:HG21	1:G:375:PHE:CE1	2.32	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:133:LYS:C	1:I:283:ILE:HD11	2.28	0.59
1:I:235:LYS:HE2	1:I:238:GLU:CG	2.28	0.59
1:K:86:LYS:HD2	1:K:89:MET:HE1	1.85	0.59
1:K:120:PHE:HE1	1:K:124:ASN:OD1	1.84	0.59
1:M:374:VAL:HG21	1:M:375:PHE:CE1	2.32	0.59
2:N:64:GLU:O	2:N:65:LYS:C	2.44	0.59
1:O:178:ILE:CG2	1:O:241:LEU:O	2.50	0.59
1:O:322:ARG:HG3	1:O:322:ARG:NH1	2.16	0.59
1:O:376:PRO:HG2	1:O:470:HIS:CE1	2.37	0.59
1:O:460:PRO:HG2	1:O:462:TYR:CZ	2.37	0.59
1:O:518:LEU:O	1:O:522:LYS:HG2	2.03	0.59
1:O:561:LEU:HA	1:O:564:ILE:HD11	1.83	0.59
1:Q:146:ASN:ND2	1:Q:253:TRP:HZ2	1.99	0.59
1:S:15:ILE:CD1	1:S:95:GLU:O	2.51	0.59
1:S:242:LEU:CD2	1:S:244:LEU:HD13	2.31	0.59
1:S:354:GLU:HG2	1:S:430:LYS:HZ2	1.66	0.59
1:S:371:ARG:HB3	1:S:389:ILE:HD13	1.74	0.59
2:T:94:LEU:HA	2:T:97:ILE:HG12	1.85	0.59
1:U:357:LEU:HB3	1:U:366:ARG:HD3	1.83	0.59
1:W:235:LYS:NZ	1:W:238:GLU:HG2	2.18	0.59
1:W:253:TRP:O	1:W:254:ASN:C	2.44	0.59
1:W:557:LYS:CE	1:W:558:TYR:H	2.16	0.59
1:Y:171:GLN:O	1:Y:174:MET:N	2.32	0.59
2:Z:94:LEU:HA	2:Z:97:ILE:HG12	1.84	0.59
1:a:178:ILE:CG2	1:a:241:LEU:O	2.50	0.59
1:a:557:LYS:CE	1:a:558:TYR:H	2.16	0.59
1:c:86:LYS:HE3	1:c:89:MET:HE1	1.84	0.59
1:c:247:VAL:CG2	1:c:264:LEU:HB2	2.32	0.59
1:e:86:LYS:HD2	1:e:89:MET:HE1	1.85	0.59
1:e:348:LYS:C	1:e:352:ILE:HD13	2.25	0.59
1:A:15:ILE:CD1	1:A:95:GLU:O	2.51	0.59
1:C:138:LEU:HD21	1:C:170:VAL:CG1	2.31	0.59
1:C:460:PRO:HG2	1:C:462:TYR:CZ	2.37	0.59
1:E:374:VAL:CG2	1:E:375:PHE:CZ	2.85	0.59
1:G:15:ILE:CD1	1:G:95:GLU:O	2.51	0.59
1:G:242:LEU:CD2	1:G:244:LEU:HD13	2.31	0.59
2:H:94:LEU:HA	2:H:97:ILE:HG12	1.85	0.59
1:K:48:ILE:HD11	1:K:64:THR:OG1	2.02	0.59
1:M:86:LYS:HE3	1:M:89:MET:HE1	1.84	0.59
1:O:157:LYS:CA	1:O:285:LEU:CD1	2.76	0.59
1:O:371:ARG:CB	1:O:389:ILE:HG12	2.29	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Q:86:LYS:HE3	1:Q:89:MET:HE1	1.84	0.59
1:Q:376:PRO:HG2	1:Q:470:HIS:CE1	2.37	0.59
1:S:41:SER:HB3	1:S:44:GLU:H	1.68	0.59
1:S:342:LYS:HG3	1:S:343:HIS:N	2.17	0.59
1:S:374:VAL:HG21	1:S:375:PHE:CE1	2.32	0.59
1:W:460:PRO:HG2	1:W:462:TYR:CZ	2.37	0.59
1:W:518:LEU:O	1:W:522:LYS:HG2	2.03	0.59
1:Y:86:LYS:HE3	1:Y:89:MET:HE1	1.84	0.59
1:Y:146:ASN:ND2	1:Y:253:TRP:HZ2	1.99	0.59
1:Y:495:ARG:HH22	1:Y:549:ILE:HG21	1.66	0.59
1:a:460:PRO:HG2	1:a:462:TYR:CZ	2.37	0.59
1:a:518:LEU:O	1:a:522:LYS:HG2	2.03	0.59
1:c:207:TRP:CZ3	1:c:209:SER:HA	2.37	0.59
1:c:327:ILE:CG2	1:c:341:TRP:CE3	2.84	0.59
1:c:410:LEU:HA	1:c:423:PRO:CG	2.26	0.59
1:c:460:PRO:CG	1:c:462:TYR:CZ	2.86	0.59
1:e:15:ILE:CD1	1:e:95:GLU:O	2.51	0.59
1:e:322:ARG:HG3	1:e:322:ARG:NH1	2.16	0.59
1:A:235:LYS:NZ	1:A:238:GLU:HG2	2.18	0.59
1:A:424:SER:HA	1:A:427:LEU:CB	2.12	0.59
1:C:253:TRP:O	1:C:254:ASN:C	2.44	0.59
1:C:388:LEU:HD23	1:C:388:LEU:H	1.68	0.59
1:C:518:LEU:O	1:C:522:LYS:HG2	2.03	0.59
1:E:86:LYS:HD2	1:E:89:MET:HE1	1.85	0.59
1:G:41:SER:HB3	1:G:44:GLU:H	1.68	0.59
1:G:235:LYS:NZ	1:G:238:GLU:HG2	2.18	0.59
1:G:342:LYS:HG3	1:G:343:HIS:N	2.17	0.59
1:G:369:PHE:HZ	1:G:410:LEU:CD2	2.06	0.59
1:G:561:LEU:HA	1:G:564:ILE:HD11	1.83	0.59
2:H:18:ILE:HG12	2:H:106:LEU:HD11	1.84	0.59
1:I:235:LYS:NZ	1:I:238:GLU:HG2	2.18	0.59
1:K:15:ILE:CD1	1:K:95:GLU:O	2.51	0.59
1:K:41:SER:HB3	1:K:44:GLU:H	1.68	0.59
1:K:232:LEU:C	1:K:234:SER:N	2.57	0.59
1:K:348:LYS:C	1:K:352:ILE:HD13	2.25	0.59
1:K:460:PRO:CG	1:K:462:TYR:CZ	2.86	0.59
1:M:207:TRP:CZ3	1:M:209:SER:HA	2.37	0.59
1:M:327:ILE:CG2	1:M:341:TRP:CE3	2.84	0.59
1:M:460:PRO:CG	1:M:462:TYR:CZ	2.86	0.59
1:M:518:LEU:O	1:M:522:LYS:HG2	2.03	0.59
1:M:557:LYS:CE	1:M:558:TYR:H	2.16	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:O:247:VAL:CG2	1:O:264:LEU:HB2	2.32	0.59
1:O:576:GLU:O	1:O:580:GLN:HG2	2.03	0.59
1:Q:12:TYR:CD1	1:Q:96:GLN:OE1	2.55	0.59
1:Q:171:GLN:O	1:Q:174:MET:N	2.32	0.59
1:Q:495:ARG:HH22	1:Q:549:ILE:HG21	1.66	0.59
1:S:235:LYS:NZ	1:S:238:GLU:HG2	2.18	0.59
1:S:258:LEU:O	1:S:259:SER:CB	2.47	0.59
1:S:561:LEU:HA	1:S:564:ILE:HD11	1.83	0.59
1:U:374:VAL:CG2	1:U:375:PHE:CZ	2.85	0.59
1:W:342:LYS:HG3	1:W:343:HIS:N	2.17	0.59
1:Y:371:ARG:HB3	1:Y:389:ILE:HD13	1.74	0.59
1:a:170:VAL:HG12	1:a:170:VAL:O	2.02	0.59
1:a:374:VAL:HG21	1:a:375:PHE:CE1	2.32	0.59
1:a:576:GLU:O	1:a:580:GLN:HG2	2.03	0.59
2:b:64:GLU:O	2:b:65:LYS:C	2.44	0.59
1:c:357:LEU:CG	1:c:430:LYS:HZ3	2.05	0.59
1:c:882:UNK:C	1:c:883:UNK:CA	2.74	0.59
1:e:41:SER:HB3	1:e:44:GLU:H	1.68	0.59
1:e:232:LEU:C	1:e:234:SER:N	2.57	0.59
1:e:460:PRO:CG	1:e:462:TYR:CZ	2.86	0.59
1:A:371:ARG:CB	1:A:389:ILE:HG12	2.29	0.59
1:C:342:LYS:HG3	1:C:343:HIS:N	2.17	0.59
1:E:557:LYS:CE	1:E:558:TYR:H	2.16	0.59
1:G:86:LYS:HD2	1:G:89:MET:HE1	1.85	0.59
1:G:242:LEU:HD21	1:G:244:LEU:HD13	1.85	0.59
1:G:424:SER:HA	1:G:427:LEU:CB	2.12	0.59
1:I:15:ILE:CD1	1:I:95:GLU:O	2.51	0.59
1:I:86:LYS:HD2	1:I:89:MET:HE1	1.85	0.59
1:I:247:VAL:CG2	1:I:264:LEU:HB2	2.32	0.59
1:K:342:LYS:HG3	1:K:343:HIS:N	2.17	0.59
1:K:576:GLU:O	1:K:580:GLN:HG2	2.03	0.59
1:M:410:LEU:HA	1:M:423:PRO:CG	2.26	0.59
1:M:882:UNK:C	1:M:883:UNK:CA	2.74	0.59
1:O:120:PHE:HE1	1:O:124:ASN:OD1	1.84	0.59
1:S:235:LYS:HE2	1:S:238:GLU:CG	2.28	0.59
1:S:242:LEU:HD21	1:S:244:LEU:HD13	1.85	0.59
1:U:86:LYS:HD2	1:U:89:MET:HE1	1.85	0.59
1:U:138:LEU:HD21	1:U:170:VAL:CG1	2.31	0.59
1:W:102:MET:HA	1:W:105:MET:HB3	1.84	0.59
1:W:388:LEU:HD23	1:W:388:LEU:H	1.68	0.59
1:Y:12:TYR:CD1	1:Y:96:GLN:OE1	2.55	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Y:157:LYS:CA	1:Y:285:LEU:CD1	2.76	0.59
1:Y:376:PRO:HG2	1:Y:470:HIS:CE1	2.37	0.59
1:a:157:LYS:CA	1:a:285:LEU:CD1	2.76	0.59
1:a:235:LYS:NZ	1:a:238:GLU:HG2	2.18	0.59
1:a:354:GLU:HG2	1:a:430:LYS:NZ	2.17	0.59
1:a:382:PRO:CB	1:a:463:LEU:HD22	2.20	0.59
1:a:388:LEU:HD23	1:a:388:LEU:H	1.68	0.59
1:c:12:TYR:CD1	1:c:96:GLN:OE1	2.55	0.59
1:c:118:GLN:C	1:c:120:PHE:N	2.58	0.59
1:c:518:LEU:O	1:c:522:LYS:HG2	2.03	0.59
1:c:557:LYS:CE	1:c:558:TYR:H	2.16	0.59
1:e:12:TYR:CD1	1:e:96:GLN:OE1	2.55	0.59
1:e:48:ILE:HD11	1:e:64:THR:OG1	2.02	0.59
1:A:86:LYS:HD2	1:A:89:MET:HE1	1.85	0.59
1:A:207:TRP:CD1	1:A:227:GLU:HG2	2.37	0.59
2:B:18:ILE:HG12	2:B:106:LEU:HD11	1.84	0.59
1:C:102:MET:HA	1:C:105:MET:HB3	1.84	0.59
1:C:424:SER:HA	1:C:427:LEU:CB	2.12	0.59
1:C:495:ARG:HH22	1:C:549:ILE:HG21	1.66	0.59
1:E:495:ARG:HH22	1:E:549:ILE:HG21	1.66	0.59
1:I:207:TRP:CD1	1:I:227:GLU:HG2	2.37	0.59
1:I:371:ARG:CB	1:I:389:ILE:HG12	2.29	0.59
1:I:410:LEU:CD1	1:I:411:VAL:H	2.06	0.59
1:K:12:TYR:CD1	1:K:96:GLN:OE1	2.55	0.59
1:M:12:TYR:CD1	1:M:96:GLN:OE1	2.55	0.59
1:M:235:LYS:NZ	1:M:238:GLU:HG2	2.18	0.59
1:O:82:ARG:HH11	1:O:82:ARG:CG	2.16	0.59
1:O:170:VAL:HG12	1:O:170:VAL:O	2.02	0.59
1:O:235:LYS:NZ	1:O:238:GLU:HG2	2.18	0.59
1:O:354:GLU:HG2	1:O:430:LYS:NZ	2.17	0.59
1:O:388:LEU:HD23	1:O:388:LEU:H	1.68	0.59
1:O:882:UNK:CA	1:O:883:UNK:N	2.62	0.59
2:P:64:GLU:O	2:P:65:LYS:C	2.44	0.59
1:Q:48:ILE:C	1:Q:50:MET:H	2.08	0.59
1:Q:133:LYS:C	1:Q:283:ILE:HD11	2.28	0.59
1:Q:157:LYS:CA	1:Q:285:LEU:CD1	2.76	0.59
1:S:86:LYS:HD2	1:S:89:MET:HE1	1.85	0.59
1:S:178:ILE:CG2	1:S:241:LEU:O	2.50	0.59
1:S:410:LEU:HA	1:S:426:TYR:HE1	1.65	0.59
2:T:18:ILE:HG12	2:T:106:LEU:HD11	1.84	0.59
1:U:495:ARG:HH22	1:U:549:ILE:HG21	1.66	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:U:557:LYS:CE	1:U:558:TYR:H	2.16	0.59
1:U:576:GLU:O	1:U:580:GLN:HG2	2.03	0.59
1:W:495:ARG:HH22	1:W:549:ILE:HG21	1.66	0.59
1:Y:48:ILE:C	1:Y:50:MET:H	2.08	0.59
1:Y:150:ASP:OD2	1:Y:272:THR:CB	2.51	0.59
1:Y:327:ILE:CG2	1:Y:341:TRP:CE3	2.84	0.59
1:a:82:ARG:HH11	1:a:82:ARG:CG	2.16	0.59
1:a:120:PHE:HE1	1:a:124:ASN:OD1	1.84	0.59
1:c:15:ILE:CD1	1:c:95:GLU:O	2.51	0.59
1:c:82:ARG:HH11	1:c:82:ARG:CG	2.16	0.59
1:e:178:ILE:CG2	1:e:241:LEU:O	2.50	0.59
1:e:342:LYS:HG3	1:e:343:HIS:N	2.17	0.59
1:e:388:LEU:HD23	1:e:388:LEU:H	1.68	0.59
1:e:576:GLU:O	1:e:580:GLN:HG2	2.03	0.59
1:A:247:VAL:CG2	1:A:264:LEU:HB2	2.32	0.58
1:A:382:PRO:CB	1:A:463:LEU:HD22	2.20	0.58
1:C:12:TYR:CD1	1:C:96:GLN:OE1	2.55	0.58
1:C:304:TYR:O	1:C:332:ARG:HD2	2.03	0.58
1:C:354:GLU:HG2	1:C:430:LYS:NZ	2.17	0.58
1:C:562:LEU:HD22	1:C:562:LEU:H	1.68	0.58
1:C:576:GLU:O	1:C:580:GLN:HG2	2.03	0.58
1:E:327:ILE:CG2	1:E:341:TRP:HE3	2.16	0.58
1:G:178:ILE:CG2	1:G:241:LEU:O	2.50	0.58
1:G:235:LYS:HE2	1:G:238:GLU:CG	2.28	0.58
1:G:258:LEU:O	1:G:259:SER:CB	2.47	0.58
1:G:388:LEU:HD23	1:G:388:LEU:H	1.68	0.58
1:K:170:VAL:HG12	1:K:170:VAL:O	2.02	0.58
1:K:178:ILE:CG2	1:K:241:LEU:O	2.50	0.58
1:K:388:LEU:HD23	1:K:388:LEU:H	1.68	0.58
1:M:15:ILE:CD1	1:M:95:GLU:O	2.51	0.58
1:M:82:ARG:HH11	1:M:82:ARG:CG	2.16	0.58
1:M:170:VAL:O	1:M:170:VAL:HG12	2.02	0.58
1:O:460:PRO:CG	1:O:462:TYR:CZ	2.86	0.58
1:Q:150:ASP:OD2	1:Q:272:THR:CB	2.51	0.58
1:Q:250:ALA:CB	1:Q:274:PHE:CD2	2.87	0.58
1:Q:327:ILE:CG2	1:Q:341:TRP:CE3	2.84	0.58
1:U:253:TRP:O	1:U:254:ASN:C	2.44	0.58
1:U:327:ILE:CG2	1:U:341:TRP:HE3	2.16	0.58
1:W:15:ILE:CD1	1:W:95:GLU:O	2.51	0.58
1:W:247:VAL:CG2	1:W:264:LEU:HB2	2.32	0.58
1:W:304:TYR:O	1:W:332:ARG:HD2	2.03	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:W:489:MET:CB	1:W:539:VAL:HB	2.31	0.58
1:W:562:LEU:HD22	1:W:562:LEU:H	1.68	0.58
1:W:576:GLU:O	1:W:580:GLN:HG2	2.03	0.58
1:Y:250:ALA:CB	1:Y:274:PHE:CD2	2.87	0.58
1:a:118:GLN:C	1:a:120:PHE:N	2.58	0.58
1:a:460:PRO:CG	1:a:462:TYR:CZ	2.86	0.58
1:c:235:LYS:NZ	1:c:238:GLU:HG2	2.18	0.58
1:c:250:ALA:CB	1:c:274:PHE:CD2	2.87	0.58
2:d:23:ASN:OD1	2:d:23:ASN:N	2.34	0.58
1:A:171:GLN:O	1:A:174:MET:N	2.32	0.58
1:C:15:ILE:CD1	1:C:95:GLU:O	2.51	0.58
1:C:247:VAL:CG2	1:C:264:LEU:HB2	2.32	0.58
1:C:411:VAL:N	1:C:422:ILE:HG23	2.18	0.58
1:E:138:LEU:HD21	1:E:170:VAL:CG1	2.31	0.58
1:E:304:TYR:O	1:E:332:ARG:HD2	2.03	0.58
1:E:576:GLU:O	1:E:580:GLN:HG2	2.03	0.58
2:J:18:ILE:HG12	2:J:106:LEU:HD11	1.84	0.58
1:K:374:VAL:CG2	1:K:375:PHE:CZ	2.85	0.58
1:K:557:LYS:CE	1:K:558:TYR:H	2.16	0.58
1:K:808:UNK:N	1:K:849:UNK:O	2.36	0.58
1:M:82:ARG:CZ	1:M:82:ARG:HB2	2.33	0.58
1:M:178:ILE:CG2	1:M:241:LEU:O	2.50	0.58
1:M:250:ALA:CB	1:M:274:PHE:CD2	2.87	0.58
1:O:374:VAL:HG21	1:O:375:PHE:CE1	2.32	0.58
1:O:382:PRO:CB	1:O:463:LEU:HD22	2.20	0.58
1:Q:247:VAL:CG2	1:Q:264:LEU:HB2	2.32	0.58
1:S:388:LEU:HD23	1:S:388:LEU:H	1.68	0.58
1:U:231:LEU:HD23	1:U:237:TYR:HE2	1.68	0.58
1:W:12:TYR:CD1	1:W:96:GLN:OE1	2.55	0.58
1:W:354:GLU:HG2	1:W:430:LYS:NZ	2.17	0.58
1:Y:247:VAL:CG2	1:Y:264:LEU:HB2	2.32	0.58
1:Y:342:LYS:HG3	1:Y:343:HIS:N	2.17	0.58
1:a:12:TYR:CD1	1:a:96:GLN:OE1	2.55	0.58
1:c:82:ARG:CZ	1:c:82:ARG:HB2	2.33	0.58
1:c:178:ILE:CG2	1:c:241:LEU:O	2.50	0.58
1:c:229:ARG:HG2	1:c:229:ARG:NH2	2.13	0.58
1:e:170:VAL:HG12	1:e:170:VAL:O	2.02	0.58
1:e:374:VAL:CG2	1:e:375:PHE:CZ	2.85	0.58
1:e:518:LEU:O	1:e:522:LYS:HG2	2.03	0.58
1:A:291:THR:HG23	1:A:319:THR:HB	1.86	0.58
1:C:489:MET:CB	1:C:539:VAL:HB	2.31	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:12:TYR:CD1	1:E:96:GLN:OE1	2.55	0.58
1:E:235:LYS:NZ	1:E:238:GLU:HG2	2.18	0.58
1:E:253:TRP:O	1:E:254:ASN:C	2.44	0.58
1:E:495:ARG:HH22	1:E:549:ILE:HG23	1.63	0.58
2:F:23:ASN:OD1	2:F:23:ASN:N	2.34	0.58
1:G:178:ILE:HG23	1:G:241:LEU:CD2	2.27	0.58
1:G:410:LEU:HA	1:G:426:TYR:HE1	1.65	0.58
1:I:460:PRO:CG	1:I:462:TYR:CZ	2.86	0.58
1:K:133:LYS:C	1:K:283:ILE:HD11	2.28	0.58
1:K:304:TYR:O	1:K:332:ARG:HD2	2.03	0.58
1:K:518:LEU:O	1:K:522:LYS:HG2	2.03	0.58
1:M:118:GLN:C	1:M:120:PHE:N	2.58	0.58
1:M:229:ARG:HG2	1:M:229:ARG:NH2	2.13	0.58
2:N:23:ASN:OD1	2:N:23:ASN:N	2.34	0.58
1:O:12:TYR:CD1	1:O:96:GLN:OE1	2.55	0.58
1:O:285:LEU:O	1:O:285:LEU:HD23	2.02	0.58
1:Q:82:ARG:CZ	1:Q:82:ARG:HB2	2.33	0.58
1:Q:235:LYS:NZ	1:Q:238:GLU:HG2	2.18	0.58
1:Q:342:LYS:HG3	1:Q:343:HIS:N	2.17	0.58
1:Q:405:LEU:CB	1:Q:411:VAL:HG11	2.28	0.58
1:S:291:THR:HG23	1:S:319:THR:HB	1.86	0.58
1:U:133:LYS:C	1:U:283:ILE:HD11	2.28	0.58
1:U:150:ASP:OD2	1:U:272:THR:CB	2.51	0.58
1:U:304:TYR:O	1:U:332:ARG:HD2	2.03	0.58
1:U:495:ARG:HH22	1:U:549:ILE:HG23	1.63	0.58
1:W:86:LYS:HE3	1:W:89:MET:HE1	1.85	0.58
1:W:411:VAL:N	1:W:422:ILE:HG23	2.18	0.58
1:a:488:ARG:CG	1:a:488:ARG:NH1	2.65	0.58
1:a:882:UNK:CA	1:a:883:UNK:N	2.62	0.58
1:c:170:VAL:HG12	1:c:170:VAL:O	2.02	0.58
1:e:235:LYS:NZ	1:e:238:GLU:HG2	2.18	0.58
1:e:291:THR:HG23	1:e:319:THR:HB	1.86	0.58
1:e:411:VAL:N	1:e:422:ILE:HG23	2.18	0.58
1:e:557:LYS:CE	1:e:558:TYR:H	2.16	0.58
1:e:808:UNK:N	1:e:849:UNK:O	2.36	0.58
1:A:410:LEU:CD1	1:A:411:VAL:H	2.06	0.58
1:A:460:PRO:CG	1:A:462:TYR:CZ	2.86	0.58
1:C:86:LYS:HE3	1:C:89:MET:HE1	1.85	0.58
1:C:150:ASP:OD2	1:C:272:THR:CB	2.51	0.58
1:C:372:LEU:HD23	1:C:372:LEU:C	2.29	0.58
1:C:375:PHE:CZ	1:C:381:ILE:HD12	2.38	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:808:UNK:N	1:C:849:UNK:O	2.36	0.58
1:E:133:LYS:C	1:E:283:ILE:HD11	2.28	0.58
1:E:150:ASP:OD2	1:E:272:THR:CB	2.51	0.58
1:E:231:LEU:HD23	1:E:237:TYR:HE2	1.68	0.58
1:E:252:ALA:O	1:E:255:ALA:CB	2.51	0.58
1:E:372:LEU:HD23	1:E:372:LEU:C	2.29	0.58
1:E:518:LEU:O	1:E:522:LYS:HG2	2.03	0.58
1:G:150:ASP:OD2	1:G:272:THR:CB	2.51	0.58
1:G:291:THR:HG23	1:G:319:THR:HB	1.86	0.58
1:G:557:LYS:CE	1:G:558:TYR:H	2.16	0.58
2:H:25:LEU:HD21	2:H:106:LEU:HD13	1.85	0.58
1:I:291:THR:HG23	1:I:319:THR:HB	1.86	0.58
1:I:576:GLU:O	1:I:580:GLN:HG2	2.03	0.58
1:K:127:ARG:NH2	1:K:285:LEU:CD2	2.67	0.58
1:K:291:THR:HG23	1:K:319:THR:HB	1.86	0.58
1:O:372:LEU:HD23	1:O:372:LEU:C	2.29	0.58
1:O:375:PHE:CZ	1:O:381:ILE:HD12	2.38	0.58
1:Q:102:MET:HA	1:Q:105:MET:HB3	1.84	0.58
1:Q:250:ALA:HB1	1:Q:274:PHE:CD2	2.37	0.58
1:Q:808:UNK:N	1:Q:849:UNK:O	2.36	0.58
1:S:360:LEU:CG	1:S:365:TYR:CB	2.48	0.58
1:S:424:SER:HA	1:S:427:LEU:CB	2.12	0.58
1:S:557:LYS:CE	1:S:558:TYR:H	2.16	0.58
1:S:808:UNK:N	1:S:849:UNK:O	2.36	0.58
2:T:25:LEU:HD21	2:T:106:LEU:HD13	1.85	0.58
1:U:235:LYS:NZ	1:U:238:GLU:HG2	2.18	0.58
1:U:372:LEU:HD23	1:U:372:LEU:C	2.29	0.58
1:U:382:PRO:CB	1:U:463:LEU:HD22	2.20	0.58
1:W:150:ASP:OD2	1:W:272:THR:CB	2.51	0.58
1:W:375:PHE:CZ	1:W:381:ILE:HD12	2.38	0.58
1:W:808:UNK:N	1:W:849:UNK:O	2.36	0.58
1:Y:82:ARG:HH11	1:Y:82:ARG:CG	2.16	0.58
1:Y:82:ARG:CZ	1:Y:82:ARG:HB2	2.33	0.58
1:Y:102:MET:HA	1:Y:105:MET:HB3	1.84	0.58
1:Y:250:ALA:HB1	1:Y:274:PHE:CD2	2.37	0.58
1:Y:405:LEU:CB	1:Y:411:VAL:HG11	2.28	0.58
1:Y:460:PRO:CG	1:Y:462:TYR:CZ	2.86	0.58
1:Y:808:UNK:N	1:Y:849:UNK:O	2.36	0.58
1:a:133:LYS:C	1:a:283:ILE:HD11	2.28	0.58
1:c:371:ARG:CB	1:c:389:ILE:HG12	2.29	0.58
1:e:133:LYS:C	1:e:283:ILE:HD11	2.28	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:e:304:TYR:O	1:e:332:ARG:HD2	2.03	0.58
1:A:492:LEU:HB3	1:A:580:GLN:OE1	2.04	0.58
1:C:82:ARG:CZ	1:C:82:ARG:HB2	2.33	0.58
1:C:247:VAL:CG2	1:C:264:LEU:HD13	2.33	0.58
1:E:232:LEU:C	1:E:234:SER:N	2.57	0.58
1:E:411:VAL:N	1:E:422:ILE:HG23	2.18	0.58
1:G:808:UNK:N	1:G:849:UNK:O	2.36	0.58
1:I:171:GLN:O	1:I:174:MET:N	2.32	0.58
1:I:492:LEU:HB3	1:I:580:GLN:OE1	2.04	0.58
1:K:161:ALA:O	1:K:164:VAL:HG22	2.04	0.58
1:K:235:LYS:NZ	1:K:238:GLU:HG2	2.18	0.58
1:K:250:ALA:CB	1:K:274:PHE:CD2	2.87	0.58
1:K:327:ILE:CG2	1:K:341:TRP:HE3	2.16	0.58
1:M:562:LEU:H	1:M:562:LEU:HD22	1.68	0.58
1:M:990:UNK:O	1:M:991:UNK:C	2.52	0.58
1:O:488:ARG:CG	1:O:488:ARG:NH1	2.65	0.58
1:Q:82:ARG:HH11	1:Q:82:ARG:CG	2.16	0.58
1:Q:231:LEU:HD23	1:Q:237:TYR:HE2	1.68	0.58
1:Q:375:PHE:CZ	1:Q:381:ILE:HD12	2.38	0.58
1:Q:460:PRO:CG	1:Q:462:TYR:CZ	2.86	0.58
1:Q:522:LYS:O	1:Q:526:PRO:HD2	2.02	0.58
2:R:57:GLY:H	2:R:59:PRO:CD	2.17	0.58
1:S:150:ASP:OD2	1:S:272:THR:CB	2.51	0.58
1:S:178:ILE:HG23	1:S:241:LEU:CD2	2.27	0.58
1:U:12:TYR:CD1	1:U:96:GLN:OE1	2.55	0.58
1:U:232:LEU:C	1:U:234:SER:N	2.57	0.58
1:U:252:ALA:O	1:U:255:ALA:CB	2.51	0.58
1:U:317:LEU:O	1:U:318:THR:OG1	2.20	0.58
1:U:518:LEU:O	1:U:522:LYS:HG2	2.03	0.58
2:V:23:ASN:OD1	2:V:23:ASN:N	2.34	0.58
1:W:82:ARG:HB2	1:W:82:ARG:CZ	2.33	0.58
1:W:250:ALA:HB1	1:W:274:PHE:CD2	2.37	0.58
1:W:250:ALA:CB	1:W:274:PHE:CD2	2.87	0.58
1:W:372:LEU:HD23	1:W:372:LEU:C	2.29	0.58
1:W:424:SER:HA	1:W:427:LEU:CB	2.12	0.58
1:W:460:PRO:CG	1:W:462:TYR:CZ	2.86	0.58
1:Y:235:LYS:NZ	1:Y:238:GLU:HG2	2.18	0.58
1:Y:304:TYR:O	1:Y:332:ARG:HD2	2.03	0.58
1:Y:375:PHE:CZ	1:Y:381:ILE:HD12	2.38	0.58
1:Y:522:LYS:O	1:Y:526:PRO:HD2	2.02	0.58
2:Z:57:GLY:H	2:Z:59:PRO:CD	2.17	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:a:102:MET:HA	1:a:105:MET:HB3	1.84	0.58
1:a:207:TRP:CD1	1:a:227:GLU:HG2	2.37	0.58
1:a:285:LEU:HD23	1:a:285:LEU:O	2.02	0.58
1:a:372:LEU:HD23	1:a:372:LEU:C	2.29	0.58
1:a:375:PHE:CZ	1:a:381:ILE:HD12	2.38	0.58
1:a:562:LEU:H	1:a:562:LEU:HD22	1.68	0.58
1:c:317:LEU:O	1:c:318:THR:OG1	2.20	0.58
1:c:562:LEU:HD22	1:c:562:LEU:H	1.68	0.58
1:c:990:UNK:O	1:c:991:UNK:C	2.52	0.58
1:e:127:ARG:NH2	1:e:285:LEU:CD2	2.67	0.58
1:e:161:ALA:O	1:e:164:VAL:HG22	2.04	0.58
1:e:327:ILE:CG2	1:e:341:TRP:HE3	2.16	0.58
1:A:127:ARG:NH2	1:A:285:LEU:CD2	2.67	0.58
1:A:178:ILE:HG23	1:A:241:LEU:CD2	2.27	0.58
1:A:557:LYS:CE	1:A:558:TYR:H	2.16	0.58
1:A:576:GLU:O	1:A:580:GLN:HG2	2.03	0.58
1:C:250:ALA:CB	1:C:274:PHE:CD2	2.87	0.58
1:C:342:LYS:CG	1:C:343:HIS:H	2.17	0.58
1:C:424:SER:C	1:C:427:LEU:H	2.12	0.58
1:C:460:PRO:CG	1:C:462:TYR:CZ	2.86	0.58
1:E:178:ILE:HG23	1:E:241:LEU:CD2	2.27	0.58
1:E:291:THR:HG23	1:E:319:THR:HB	1.86	0.58
1:G:207:TRP:CD1	1:G:227:GLU:HG2	2.37	0.58
1:G:460:PRO:CG	1:G:462:TYR:CZ	2.86	0.58
1:I:127:ARG:NH2	1:I:285:LEU:CD2	2.67	0.58
1:I:382:PRO:CB	1:I:463:LEU:HD22	2.20	0.58
1:I:557:LYS:CE	1:I:558:TYR:H	2.16	0.58
1:K:104:ARG:HA	1:K:107:ILE:HG21	1.84	0.58
1:K:345:ASN:O	1:K:346:CYS:C	2.47	0.58
1:K:405:LEU:CB	1:K:411:VAL:HG11	2.28	0.58
1:K:422:ILE:HG23	1:K:423:PRO:HD3	1.86	0.58
1:M:73:VAL:O	1:M:76:PHE:CB	2.45	0.58
1:M:92:ILE:O	1:M:93:LYS:C	2.44	0.58
1:M:492:LEU:HB3	1:M:580:GLN:OE1	2.04	0.58
1:M:808:UNK:N	1:M:849:UNK:O	2.36	0.58
1:O:102:MET:HA	1:O:105:MET:HB3	1.84	0.58
1:O:118:GLN:C	1:O:120:PHE:N	2.58	0.58
1:O:562:LEU:HD22	1:O:562:LEU:H	1.68	0.58
1:Q:304:TYR:O	1:Q:332:ARG:HD2	2.03	0.58
1:Q:342:LYS:CG	1:Q:343:HIS:H	2.17	0.58
1:U:291:THR:HG23	1:U:319:THR:HB	1.86	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:U:375:PHE:CZ	1:U:381:ILE:HD12	2.38	0.58
1:W:247:VAL:CG2	1:W:264:LEU:HD13	2.33	0.58
1:W:342:LYS:CG	1:W:343:HIS:H	2.17	0.58
1:W:424:SER:C	1:W:427:LEU:H	2.12	0.58
1:Y:342:LYS:CG	1:Y:343:HIS:H	2.17	0.58
1:c:291:THR:HG23	1:c:319:THR:HB	1.86	0.58
1:c:489:MET:CB	1:c:539:VAL:HB	2.31	0.58
1:c:492:LEU:HB3	1:c:580:GLN:OE1	2.04	0.58
1:c:808:UNK:N	1:c:849:UNK:O	2.36	0.58
1:e:104:ARG:HA	1:e:107:ILE:HG21	1.84	0.58
1:e:250:ALA:CB	1:e:274:PHE:CD2	2.87	0.58
1:e:327:ILE:CG2	1:e:341:TRP:CE3	2.84	0.58
1:e:405:LEU:CB	1:e:411:VAL:HG11	2.28	0.58
1:e:422:ILE:HG23	1:e:423:PRO:HD3	1.86	0.58
1:A:178:ILE:CG2	1:A:241:LEU:O	2.50	0.58
1:A:263:LEU:HG	1:A:263:LEU:O	2.04	0.58
1:A:304:TYR:O	1:A:332:ARG:HD2	2.03	0.58
1:A:327:ILE:CG2	1:A:341:TRP:HE3	2.16	0.58
1:C:250:ALA:HB1	1:C:274:PHE:CD2	2.37	0.58
1:E:82:ARG:CZ	1:E:82:ARG:HB2	2.33	0.58
1:E:235:LYS:HZ1	1:E:238:GLU:HG2	1.67	0.58
1:E:317:LEU:O	1:E:318:THR:OG1	2.20	0.58
1:E:375:PHE:CZ	1:E:381:ILE:HD12	2.38	0.58
1:E:970:UNK:O	1:E:971:UNK:C	2.52	0.58
1:G:577:ALA:O	1:G:581:VAL:HG12	2.04	0.58
1:I:161:ALA:O	1:I:164:VAL:HG22	2.04	0.58
1:I:178:ILE:HG23	1:I:241:LEU:CD2	2.27	0.58
1:K:327:ILE:CG2	1:K:341:TRP:CE3	2.84	0.58
1:K:372:LEU:HD23	1:K:372:LEU:C	2.29	0.58
1:M:263:LEU:HG	1:M:263:LEU:O	2.04	0.58
1:M:291:THR:HG23	1:M:319:THR:HB	1.86	0.58
1:M:317:LEU:O	1:M:318:THR:OG1	2.20	0.58
1:M:371:ARG:CB	1:M:389:ILE:HG12	2.29	0.58
1:M:379:ALA:HB1	1:M:470:HIS:HE2	1.69	0.58
1:O:15:ILE:CD1	1:O:95:GLU:O	2.51	0.58
1:O:127:ARG:NH2	1:O:285:LEU:CD2	2.67	0.58
1:O:133:LYS:C	1:O:283:ILE:HD11	2.28	0.58
1:O:207:TRP:CD1	1:O:227:GLU:HG2	2.37	0.58
1:O:990:UNK:O	1:O:991:UNK:C	2.52	0.58
1:S:207:TRP:CD1	1:S:227:GLU:HG2	2.37	0.58
1:S:424:SER:C	1:S:427:LEU:H	2.12	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:S:460:PRO:CG	1:S:462:TYR:CZ	2.86	0.58
1:S:492:LEU:HB3	1:S:580:GLN:OE1	2.04	0.58
1:U:243:VAL:CG1	1:U:263:LEU:HD21	2.29	0.58
1:U:411:VAL:N	1:U:422:ILE:HG23	2.18	0.58
1:U:970:UNK:O	1:U:971:UNK:C	2.52	0.58
2:X:57:GLY:H	2:X:59:PRO:CD	2.17	0.58
1:Y:247:VAL:CG2	1:Y:264:LEU:HD13	2.34	0.58
1:Y:576:GLU:O	1:Y:580:GLN:HG2	2.03	0.58
2:Z:64:GLU:O	2:Z:65:LYS:C	2.44	0.58
1:a:127:ARG:NH2	1:a:285:LEU:CD2	2.67	0.58
1:a:538:LEU:HD21	1:a:572:ALA:N	2.14	0.58
1:c:92:ILE:O	1:c:93:LYS:C	2.44	0.58
1:e:345:ASN:O	1:e:346:CYS:C	2.47	0.58
1:e:357:LEU:CD1	1:e:430:LYS:HZ3	2.06	0.58
1:A:15:ILE:HD12	1:A:96:GLN:HA	1.86	0.58
1:A:161:ALA:O	1:A:164:VAL:HG22	2.04	0.58
1:A:372:LEU:HD23	1:A:372:LEU:C	2.29	0.58
1:A:577:ALA:O	1:A:581:VAL:HG12	2.04	0.58
1:A:808:UNK:N	1:A:849:UNK:O	2.36	0.58
1:C:41:SER:HB3	1:C:44:GLU:H	1.68	0.58
2:D:57:GLY:H	2:D:59:PRO:CD	2.17	0.58
1:E:92:ILE:O	1:E:93:LYS:C	2.44	0.58
1:E:478:ILE:O	1:E:479:GLU:HG2	2.04	0.58
1:E:808:UNK:N	1:E:849:UNK:O	2.36	0.58
1:G:161:ALA:O	1:G:164:VAL:HG22	2.04	0.58
1:G:234:SER:C	1:G:235:LYS:HE3	2.29	0.58
1:G:327:ILE:CG2	1:G:341:TRP:HE3	2.16	0.58
1:G:424:SER:C	1:G:427:LEU:H	2.12	0.58
1:G:492:LEU:HB3	1:G:580:GLN:OE1	2.04	0.58
1:I:178:ILE:CG2	1:I:241:LEU:O	2.50	0.58
1:I:263:LEU:HG	1:I:263:LEU:O	2.04	0.58
1:I:304:TYR:O	1:I:332:ARG:HD2	2.03	0.58
1:I:327:ILE:CG2	1:I:341:TRP:HE3	2.16	0.58
1:I:374:VAL:CG2	1:I:375:PHE:CZ	2.85	0.58
1:I:518:LEU:O	1:I:522:LYS:HG2	2.03	0.58
1:I:562:LEU:H	1:I:562:LEU:HD22	1.68	0.58
1:I:577:ALA:O	1:I:581:VAL:HG12	2.04	0.58
1:I:808:UNK:N	1:I:849:UNK:O	2.36	0.58
1:K:200:LEU:CD1	1:K:228:LEU:HD12	2.29	0.58
1:K:379:ALA:HB1	1:K:470:HIS:HE2	1.69	0.58
1:K:562:LEU:HD22	1:K:562:LEU:H	1.68	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:120:PHE:HE1	1:M:124:ASN:OD1	1.84	0.58
1:M:489:MET:CB	1:M:539:VAL:HB	2.31	0.58
2:N:43:ILE:HG12	2:N:89:LEU:CD2	2.34	0.58
1:O:150:ASP:OD2	1:O:272:THR:CB	2.51	0.58
1:O:235:LYS:HE2	1:O:235:LYS:HA	1.83	0.58
1:Q:247:VAL:CG2	1:Q:264:LEU:HD13	2.34	0.58
1:S:86:LYS:HE3	1:S:89:MET:HE1	1.85	0.58
1:S:562:LEU:HD22	1:S:562:LEU:H	1.68	0.58
1:S:577:ALA:O	1:S:581:VAL:HG12	2.04	0.58
1:U:342:LYS:CG	1:U:343:HIS:H	2.17	0.58
1:U:478:ILE:O	1:U:479:GLU:HG2	2.04	0.58
1:U:808:UNK:N	1:U:849:UNK:O	2.36	0.58
1:W:41:SER:HB3	1:W:44:GLU:H	1.68	0.58
1:W:327:ILE:CG2	1:W:341:TRP:HE3	2.16	0.58
1:Y:345:ASN:O	1:Y:347:ASP:N	2.37	0.58
2:Z:43:ILE:HG12	2:Z:89:LEU:CD2	2.34	0.58
1:a:15:ILE:CD1	1:a:95:GLU:O	2.51	0.58
1:a:150:ASP:OD2	1:a:272:THR:CB	2.51	0.58
1:a:263:LEU:HG	1:a:263:LEU:O	2.04	0.58
1:a:345:ASN:O	1:a:347:ASP:N	2.37	0.58
1:a:990:UNK:O	1:a:991:UNK:C	2.52	0.58
1:c:41:SER:HB3	1:c:44:GLU:H	1.68	0.58
1:c:73:VAL:O	1:c:76:PHE:CB	2.45	0.58
1:c:120:PHE:HE1	1:c:124:ASN:OD1	1.84	0.58
1:c:242:LEU:HD21	1:c:244:LEU:HD13	1.85	0.58
1:c:247:VAL:CG2	1:c:264:LEU:HD13	2.34	0.58
1:c:263:LEU:HG	1:c:263:LEU:O	2.04	0.58
1:c:379:ALA:HB1	1:c:470:HIS:HE2	1.69	0.58
2:d:43:ILE:HG12	2:d:89:LEU:CD2	2.34	0.58
1:e:379:ALA:HB1	1:e:470:HIS:HE2	1.69	0.58
1:e:562:LEU:H	1:e:562:LEU:HD22	1.68	0.58
1:A:207:TRP:CE3	1:A:209:SER:HA	2.39	0.58
1:A:374:VAL:CG2	1:A:375:PHE:CZ	2.85	0.58
1:A:422:ILE:HG23	1:A:423:PRO:HD3	1.86	0.58
1:A:518:LEU:O	1:A:522:LYS:HG2	2.03	0.58
1:A:538:LEU:HD21	1:A:572:ALA:N	2.14	0.58
1:A:970:UNK:O	1:A:971:UNK:C	2.52	0.58
1:C:127:ARG:NH2	1:C:285:LEU:CD2	2.67	0.58
1:C:327:ILE:CG2	1:C:341:TRP:HE3	2.16	0.58
2:D:43:ILE:HG12	2:D:89:LEU:CD2	2.34	0.58
1:E:234:SER:C	1:E:235:LYS:HE3	2.29	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:243:VAL:CG1	1:E:263:LEU:HD21	2.29	0.58
1:E:342:LYS:CG	1:E:343:HIS:H	2.17	0.58
1:E:371:ARG:CB	1:E:389:ILE:HG12	2.29	0.58
1:E:382:PRO:CB	1:E:463:LEU:HD22	2.20	0.58
1:E:460:PRO:CG	1:E:462:TYR:CZ	2.86	0.58
1:G:263:LEU:HG	1:G:263:LEU:O	2.04	0.58
1:G:562:LEU:HD22	1:G:562:LEU:H	1.68	0.58
1:I:15:ILE:HD12	1:I:96:GLN:HA	1.86	0.58
1:I:207:TRP:CE3	1:I:209:SER:HA	2.39	0.58
1:I:345:ASN:O	1:I:347:ASP:N	2.37	0.58
1:I:372:LEU:HD23	1:I:372:LEU:C	2.29	0.58
1:I:970:UNK:O	1:I:971:UNK:C	2.52	0.58
1:K:87:PHE:HD1	1:K:88:LEU:CD1	2.08	0.58
2:L:43:ILE:HG12	2:L:89:LEU:CD2	2.34	0.58
1:M:86:LYS:HD2	1:M:89:MET:HE1	1.85	0.58
1:M:161:ALA:O	1:M:164:VAL:HG22	2.04	0.58
1:M:242:LEU:HD21	1:M:244:LEU:HD13	1.85	0.58
1:M:247:VAL:CG2	1:M:264:LEU:HD13	2.34	0.58
1:M:345:ASN:O	1:M:347:ASP:N	2.37	0.58
1:M:374:VAL:CG2	1:M:375:PHE:CZ	2.85	0.58
1:M:970:UNK:O	1:M:971:UNK:C	2.52	0.58
1:O:263:LEU:HG	1:O:263:LEU:O	2.04	0.58
1:O:345:ASN:O	1:O:347:ASP:N	2.37	0.58
1:O:371:ARG:HB3	1:O:389:ILE:HD13	1.74	0.58
1:O:538:LEU:HD21	1:O:572:ALA:N	2.14	0.58
1:O:808:UNK:N	1:O:849:UNK:O	2.36	0.58
1:O:970:UNK:O	1:O:971:UNK:C	2.52	0.58
2:P:57:GLY:H	2:P:59:PRO:CD	2.17	0.58
1:Q:345:ASN:O	1:Q:347:ASP:N	2.37	0.58
1:Q:374:VAL:CG2	1:Q:375:PHE:CZ	2.85	0.58
1:Q:576:GLU:O	1:Q:580:GLN:HG2	2.03	0.58
2:R:43:ILE:HG12	2:R:89:LEU:CD2	2.34	0.58
1:S:161:ALA:O	1:S:164:VAL:HG22	2.04	0.58
1:S:234:SER:C	1:S:235:LYS:HE3	2.29	0.58
1:S:353:ILE:HG21	1:S:426:TYR:HB3	1.80	0.58
1:U:82:ARG:CZ	1:U:82:ARG:HB2	2.33	0.58
1:U:234:SER:C	1:U:235:LYS:HE3	2.29	0.58
1:U:371:ARG:CB	1:U:389:ILE:HG12	2.29	0.58
1:U:460:PRO:CG	1:U:462:TYR:CZ	2.86	0.58
1:W:127:ARG:NH2	1:W:285:LEU:CD2	2.67	0.58
2:X:43:ILE:HG12	2:X:89:LEU:CD2	2.34	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Y:133:LYS:C	1:Y:283:ILE:HD11	2.28	0.58
1:Y:562:LEU:H	1:Y:562:LEU:HD22	1.68	0.58
1:a:247:VAL:CG2	1:a:264:LEU:HB2	2.32	0.58
1:a:970:UNK:O	1:a:971:UNK:C	2.52	0.58
1:c:161:ALA:O	1:c:164:VAL:HG22	2.04	0.58
1:c:345:ASN:O	1:c:347:ASP:N	2.37	0.58
1:c:374:VAL:CG2	1:c:375:PHE:CZ	2.85	0.58
1:e:87:PHE:HD1	1:e:88:LEU:CD1	2.08	0.58
1:e:200:LEU:CD1	1:e:228:LEU:HD12	2.29	0.58
1:e:372:LEU:HD23	1:e:372:LEU:C	2.29	0.58
2:f:43:ILE:HG12	2:f:89:LEU:CD2	2.34	0.58
1:A:87:PHE:HD1	1:A:88:LEU:CD1	2.09	0.58
1:A:150:ASP:OD2	1:A:272:THR:CB	2.51	0.58
1:A:345:ASN:O	1:A:347:ASP:N	2.37	0.58
1:A:562:LEU:H	1:A:562:LEU:HD22	1.68	0.58
2:B:23:ASN:OD1	2:B:23:ASN:N	2.34	0.58
1:E:207:TRP:CE3	1:E:209:SER:HA	2.39	0.58
1:G:86:LYS:HE3	1:G:89:MET:HE1	1.85	0.58
1:G:207:TRP:CE3	1:G:209:SER:HA	2.39	0.58
1:I:150:ASP:OD2	1:I:272:THR:CB	2.51	0.58
1:I:242:LEU:HD21	1:I:244:LEU:HD13	1.85	0.58
1:I:422:ILE:HG23	1:I:423:PRO:HD3	1.86	0.58
1:K:234:SER:C	1:K:235:LYS:HE3	2.29	0.58
1:M:41:SER:HB3	1:M:44:GLU:H	1.68	0.58
1:M:104:ARG:HA	1:M:107:ILE:HG21	1.84	0.58
1:M:371:ARG:HB3	1:M:389:ILE:HD13	1.74	0.58
1:O:41:SER:HB3	1:O:44:GLU:H	1.68	0.58
1:O:92:ILE:O	1:O:93:LYS:C	2.44	0.58
1:O:291:THR:HG23	1:O:319:THR:HB	1.86	0.58
1:O:342:LYS:CG	1:O:343:HIS:H	2.17	0.58
1:Q:562:LEU:H	1:Q:562:LEU:HD22	1.68	0.58
2:R:25:LEU:HD21	2:R:106:LEU:HD13	1.85	0.58
2:R:64:GLU:O	2:R:65:LYS:C	2.44	0.58
1:S:127:ARG:NH2	1:S:285:LEU:CD2	2.67	0.58
1:S:207:TRP:CE3	1:S:209:SER:HA	2.39	0.58
1:S:263:LEU:HG	1:S:263:LEU:O	2.04	0.58
1:S:327:ILE:CG2	1:S:341:TRP:HE3	2.16	0.58
1:S:576:GLU:O	1:S:580:GLN:HG2	2.03	0.58
1:U:92:ILE:O	1:U:93:LYS:C	2.44	0.58
1:W:82:ARG:HH11	1:W:82:ARG:CG	2.16	0.58
1:W:235:LYS:HE2	1:W:238:GLU:CG	2.28	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:W:371:ARG:CB	1:W:389:ILE:HG12	2.29	0.58
1:a:41:SER:HB3	1:a:44:GLU:H	1.68	0.58
1:a:161:ALA:O	1:a:164:VAL:HG22	2.04	0.58
1:a:291:THR:HG23	1:a:319:THR:HB	1.86	0.58
1:a:304:TYR:O	1:a:332:ARG:HD2	2.03	0.58
1:a:342:LYS:CG	1:a:343:HIS:H	2.17	0.58
1:a:808:UNK:N	1:a:849:UNK:O	2.36	0.58
2:b:57:GLY:H	2:b:59:PRO:CD	2.17	0.58
1:c:104:ARG:HA	1:c:107:ILE:HG21	1.84	0.58
1:c:970:UNK:O	1:c:971:UNK:C	2.52	0.58
1:e:234:SER:C	1:e:235:LYS:HE3	2.29	0.58
1:A:104:ARG:HA	1:A:107:ILE:HG21	1.84	0.57
1:A:138:LEU:HD21	1:A:170:VAL:HG11	1.78	0.57
1:A:148:LEU:C	1:A:149:ILE:HG13	2.29	0.57
1:A:231:LEU:HD23	1:A:237:TYR:HE2	1.68	0.57
1:C:327:ILE:CG2	1:C:341:TRP:CE3	2.84	0.57
1:C:379:ALA:HB1	1:C:470:HIS:HE2	1.69	0.57
1:C:577:ALA:O	1:C:581:VAL:HG12	2.04	0.57
2:D:77:LEU:HA	2:D:80:THR:CG2	2.34	0.57
1:E:161:ALA:O	1:E:164:VAL:HG22	2.04	0.57
1:E:372:LEU:HD11	1:E:422:ILE:HG12	1.82	0.57
1:G:127:ARG:NH2	1:G:285:LEU:CD2	2.67	0.57
1:G:576:GLU:O	1:G:580:GLN:HG2	2.03	0.57
1:I:104:ARG:HA	1:I:107:ILE:HG21	1.84	0.57
1:I:148:LEU:C	1:I:149:ILE:HG13	2.29	0.57
1:I:411:VAL:N	1:I:422:ILE:HG23	2.18	0.57
1:I:478:ILE:O	1:I:479:GLU:HG2	2.04	0.57
2:J:23:ASN:OD1	2:J:23:ASN:N	2.34	0.57
1:K:92:ILE:O	1:K:93:LYS:C	2.44	0.57
1:K:150:ASP:OD2	1:K:272:THR:CB	2.51	0.57
1:K:231:LEU:HD23	1:K:237:TYR:HE2	1.68	0.57
1:K:372:LEU:HD11	1:K:422:ILE:HG12	1.82	0.57
1:K:460:PRO:HG2	1:K:462:TYR:CZ	2.37	0.57
1:M:148:LEU:C	1:M:149:ILE:HG13	2.29	0.57
1:M:304:TYR:O	1:M:332:ARG:HD2	2.03	0.57
1:M:342:LYS:CG	1:M:343:HIS:H	2.17	0.57
1:M:422:ILE:HG23	1:M:423:PRO:HD3	1.86	0.57
1:O:39:ILE:HD11	1:O:76:PHE:CB	2.34	0.57
1:O:161:ALA:O	1:O:164:VAL:HG22	2.04	0.57
1:S:82:ARG:HB2	1:S:82:ARG:CZ	2.33	0.57
1:S:304:TYR:O	1:S:332:ARG:HD2	2.03	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:S:342:LYS:CG	1:S:343:HIS:H	2.17	0.57
1:U:207:TRP:CD1	1:U:227:GLU:HG2	2.37	0.57
1:U:207:TRP:CE3	1:U:209:SER:HA	2.39	0.57
1:U:518:LEU:HD21	1:U:646:UNK:HA	1.86	0.57
1:W:379:ALA:HB1	1:W:470:HIS:HE2	1.69	0.57
2:X:77:LEU:HA	2:X:80:THR:CG2	2.34	0.57
2:Z:25:LEU:HD21	2:Z:106:LEU:HD13	1.85	0.57
1:a:39:ILE:HD11	1:a:76:PHE:CB	2.34	0.57
1:a:92:ILE:O	1:a:93:LYS:C	2.44	0.57
1:a:882:UNK:C	1:a:883:UNK:CA	2.74	0.57
1:c:86:LYS:HD2	1:c:89:MET:HE1	1.85	0.57
1:c:148:LEU:C	1:c:149:ILE:HG13	2.29	0.57
1:e:207:TRP:CE3	1:e:209:SER:HA	2.39	0.57
1:e:231:LEU:HD23	1:e:237:TYR:HE2	1.68	0.57
1:e:460:PRO:HG2	1:e:462:TYR:CZ	2.37	0.57
1:A:411:VAL:N	1:A:422:ILE:HG23	2.18	0.57
1:A:478:ILE:O	1:A:479:GLU:HG2	2.04	0.57
1:C:82:ARG:HH11	1:C:82:ARG:CG	2.16	0.57
1:C:207:TRP:CE3	1:C:209:SER:HA	2.39	0.57
1:C:235:LYS:HE2	1:C:238:GLU:CG	2.28	0.57
1:C:345:ASN:O	1:C:347:ASP:N	2.37	0.57
1:E:200:LEU:CD1	1:E:228:LEU:HD12	2.29	0.57
1:E:207:TRP:CD1	1:E:227:GLU:HG2	2.37	0.57
1:E:518:LEU:HD21	1:E:646:UNK:HA	1.86	0.57
1:G:82:ARG:CZ	1:G:82:ARG:HB2	2.33	0.57
1:G:342:LYS:CG	1:G:343:HIS:H	2.17	0.57
1:G:372:LEU:HD23	1:G:372:LEU:C	2.29	0.57
1:G:460:PRO:HG2	1:G:462:TYR:CZ	2.37	0.57
1:I:538:LEU:HD21	1:I:572:ALA:N	2.14	0.57
1:K:207:TRP:CE3	1:K:209:SER:HA	2.39	0.57
1:K:251:LYS:HD2	1:K:252:ALA:N	2.20	0.57
1:K:371:ARG:CB	1:K:389:ILE:HG12	2.29	0.57
1:K:577:ALA:O	1:K:581:VAL:HG12	2.04	0.57
2:L:25:LEU:HD21	2:L:106:LEU:HD13	1.85	0.57
2:L:77:LEU:HA	2:L:80:THR:CG2	2.34	0.57
1:M:150:ASP:OD2	1:M:272:THR:CB	2.51	0.57
1:M:345:ASN:O	1:M:346:CYS:C	2.47	0.57
1:O:250:ALA:CB	1:O:274:PHE:CD2	2.87	0.57
1:O:304:TYR:O	1:O:332:ARG:HD2	2.03	0.57
1:O:492:LEU:HB3	1:O:580:GLN:OE1	2.04	0.57
2:P:25:LEU:HD21	2:P:106:LEU:HD13	1.85	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:P:77:LEU:HA	2:P:80:THR:CG2	2.34	0.57
1:Q:424:SER:HA	1:Q:427:LEU:CB	2.12	0.57
1:S:460:PRO:HG2	1:S:462:TYR:CZ	2.37	0.57
1:U:161:ALA:O	1:U:164:VAL:HG22	2.04	0.57
1:U:577:ALA:O	1:U:581:VAL:HG12	2.04	0.57
1:W:345:ASN:O	1:W:347:ASP:N	2.37	0.57
1:W:577:ALA:O	1:W:581:VAL:HG12	2.04	0.57
1:Y:118:GLN:C	1:Y:120:PHE:N	2.58	0.57
1:Y:360:LEU:CG	1:Y:365:TYR:CB	2.48	0.57
1:a:235:LYS:HE2	1:a:235:LYS:HA	1.83	0.57
1:a:250:ALA:CB	1:a:274:PHE:CD2	2.87	0.57
1:a:327:ILE:CG2	1:a:341:TRP:HE3	2.16	0.57
2:b:77:LEU:HA	2:b:80:THR:CG2	2.34	0.57
1:c:15:ILE:HD12	1:c:96:GLN:HA	1.86	0.57
1:c:127:ARG:NH2	1:c:285:LEU:CD2	2.67	0.57
1:c:150:ASP:OD2	1:c:272:THR:CB	2.51	0.57
1:c:284:SER:OG	1:c:287:HIS:HB2	2.05	0.57
1:c:342:LYS:CG	1:c:343:HIS:H	2.17	0.57
1:c:422:ILE:HG23	1:c:423:PRO:HD3	1.86	0.57
1:e:150:ASP:OD2	1:e:272:THR:CB	2.51	0.57
1:e:372:LEU:HD11	1:e:422:ILE:HG12	1.82	0.57
2:f:25:LEU:HD21	2:f:106:LEU:HD13	1.85	0.57
2:f:77:LEU:HA	2:f:80:THR:CG2	2.34	0.57
1:A:157:LYS:CA	1:A:285:LEU:CD1	2.76	0.57
1:A:251:LYS:HD2	1:A:252:ALA:N	2.20	0.57
1:C:492:LEU:HB3	1:C:580:GLN:OE1	2.04	0.57
1:E:15:ILE:HD12	1:E:96:GLN:HA	1.86	0.57
1:E:148:LEU:C	1:E:149:ILE:HG13	2.29	0.57
1:E:492:LEU:HB3	1:E:580:GLN:OE1	2.04	0.57
1:E:577:ALA:O	1:E:581:VAL:HG12	2.04	0.57
1:G:304:TYR:O	1:G:332:ARG:HD2	2.03	0.57
1:G:353:ILE:HG21	1:G:426:TYR:HB3	1.80	0.57
1:G:375:PHE:CZ	1:G:381:ILE:HD12	2.38	0.57
1:I:231:LEU:HD23	1:I:237:TYR:HE2	1.68	0.57
1:M:15:ILE:HD12	1:M:96:GLN:HA	1.86	0.57
1:M:284:SER:OG	1:M:287:HIS:HB2	2.05	0.57
1:O:327:ILE:CG2	1:O:341:TRP:HE3	2.16	0.57
1:O:882:UNK:C	1:O:883:UNK:CA	2.74	0.57
1:Q:127:ARG:NH2	1:Q:285:LEU:CD2	2.67	0.57
1:Q:251:LYS:HD2	1:Q:252:ALA:N	2.20	0.57
1:Q:345:ASN:O	1:Q:346:CYS:C	2.47	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Q:360:LEU:CG	1:Q:365:TYR:CB	2.48	0.57
1:Q:374:VAL:HG21	1:Q:375:PHE:CE1	2.32	0.57
1:Q:990:UNK:O	1:Q:991:UNK:C	2.52	0.57
1:S:371:ARG:CB	1:S:389:ILE:HG12	2.29	0.57
1:S:478:ILE:O	1:S:479:GLU:HG2	2.04	0.57
1:S:518:LEU:O	1:S:522:LYS:HG2	2.03	0.57
1:U:15:ILE:HD12	1:U:96:GLN:HA	1.86	0.57
1:U:148:LEU:C	1:U:149:ILE:HG13	2.29	0.57
1:U:200:LEU:CD1	1:U:228:LEU:HD12	2.29	0.57
1:W:207:TRP:CE3	1:W:209:SER:HA	2.39	0.57
1:W:251:LYS:HD2	1:W:252:ALA:N	2.20	0.57
1:W:327:ILE:CG2	1:W:341:TRP:CE3	2.84	0.57
1:W:353:ILE:HG21	1:W:426:TYR:HB3	1.80	0.57
1:W:492:LEU:HB3	1:W:580:GLN:OE1	2.04	0.57
1:Y:127:ARG:NH2	1:Y:285:LEU:CD2	2.67	0.57
1:Y:251:LYS:HD2	1:Y:252:ALA:N	2.20	0.57
1:Y:372:LEU:HD23	1:Y:372:LEU:C	2.29	0.57
1:Y:374:VAL:HG21	1:Y:375:PHE:CE1	2.32	0.57
2:Z:18:ILE:HG12	2:Z:106:LEU:HD11	1.84	0.57
1:a:82:ARG:CZ	1:a:82:ARG:HB2	2.33	0.57
1:a:492:LEU:HB3	1:a:580:GLN:OE1	2.04	0.57
2:b:25:LEU:HD21	2:b:106:LEU:HD13	1.85	0.57
1:c:304:TYR:O	1:c:332:ARG:HD2	2.03	0.57
1:c:345:ASN:O	1:c:346:CYS:C	2.47	0.57
1:c:375:PHE:CZ	1:c:381:ILE:HD12	2.38	0.57
1:e:92:ILE:O	1:e:93:LYS:C	2.44	0.57
1:e:138:LEU:HD21	1:e:170:VAL:CG1	2.31	0.57
1:e:251:LYS:HD2	1:e:252:ALA:N	2.20	0.57
1:e:371:ARG:CB	1:e:389:ILE:HG12	2.29	0.57
1:A:200:LEU:CD1	1:A:228:LEU:HD12	2.29	0.57
1:A:375:PHE:CZ	1:A:381:ILE:HD12	2.38	0.57
1:A:379:ALA:HB1	1:A:470:HIS:HE2	1.69	0.57
2:B:77:LEU:HA	2:B:80:THR:CG2	2.34	0.57
1:C:234:SER:OG	1:C:236:PRO:HD2	2.05	0.57
1:C:251:LYS:HD2	1:C:252:ALA:N	2.20	0.57
1:C:291:THR:HG23	1:C:319:THR:HB	1.86	0.57
1:C:371:ARG:CB	1:C:389:ILE:HG12	2.29	0.57
1:E:127:ARG:NH2	1:E:285:LEU:CD2	2.67	0.57
1:E:251:LYS:HD2	1:E:252:ALA:N	2.20	0.57
2:F:43:ILE:HG12	2:F:89:LEU:CD2	2.34	0.57
1:G:478:ILE:O	1:G:479:GLU:HG2	2.04	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:518:LEU:O	1:G:522:LYS:HG2	2.03	0.57
1:I:82:ARG:CZ	1:I:82:ARG:HB2	2.33	0.57
1:I:200:LEU:CD1	1:I:228:LEU:HD12	2.29	0.57
1:I:251:LYS:HD2	1:I:252:ALA:N	2.20	0.57
1:I:424:SER:C	1:I:427:LEU:H	2.12	0.57
1:K:247:VAL:CG2	1:K:264:LEU:HD13	2.33	0.57
1:K:284:SER:OG	1:K:287:HIS:HB2	2.05	0.57
1:M:127:ARG:NH2	1:M:285:LEU:CD2	2.67	0.57
1:M:234:SER:C	1:M:235:LYS:HE3	2.29	0.57
1:M:375:PHE:CZ	1:M:381:ILE:HD12	2.38	0.57
1:M:388:LEU:HD23	1:M:388:LEU:H	1.68	0.57
1:M:557:LYS:HE3	1:M:558:TYR:H	1.70	0.57
2:N:55:LEU:HB2	2:N:59:PRO:HG3	1.87	0.57
2:N:57:GLY:H	2:N:59:PRO:CD	2.17	0.57
1:O:284:SER:OG	1:O:287:HIS:HB2	2.05	0.57
1:O:345:ASN:O	1:O:346:CYS:C	2.47	0.57
1:O:424:SER:C	1:O:427:LEU:H	2.12	0.57
1:Q:372:LEU:HD23	1:Q:372:LEU:C	2.29	0.57
1:Q:460:PRO:HG2	1:Q:462:TYR:CZ	2.37	0.57
1:S:234:SER:OG	1:S:236:PRO:HD2	2.05	0.57
1:S:372:LEU:HD23	1:S:372:LEU:C	2.29	0.57
1:S:375:PHE:CZ	1:S:381:ILE:HD12	2.38	0.57
1:U:127:ARG:NH2	1:U:285:LEU:CD2	2.67	0.57
1:U:251:LYS:HD2	1:U:252:ALA:N	2.20	0.57
1:U:492:LEU:HB3	1:U:580:GLN:OE1	2.04	0.57
1:W:234:SER:OG	1:W:236:PRO:HD2	2.05	0.57
1:W:260:CYS:O	1:W:262:ILE:N	2.38	0.57
1:W:291:THR:HG23	1:W:319:THR:HB	1.86	0.57
1:Y:41:SER:HB3	1:Y:44:GLU:H	1.68	0.57
1:Y:291:THR:HG23	1:Y:319:THR:HB	1.86	0.57
1:Y:345:ASN:O	1:Y:346:CYS:C	2.47	0.57
1:Y:990:UNK:O	1:Y:991:UNK:C	2.52	0.57
1:a:284:SER:OG	1:a:287:HIS:HB2	2.05	0.57
1:a:371:ARG:HB3	1:a:389:ILE:HD13	1.74	0.57
1:c:557:LYS:HE3	1:c:558:TYR:H	1.70	0.57
1:c:577:ALA:O	1:c:581:VAL:HG12	2.04	0.57
2:d:55:LEU:HB2	2:d:59:PRO:HG3	1.87	0.57
1:e:284:SER:OG	1:e:287:HIS:HB2	2.05	0.57
1:e:375:PHE:CZ	1:e:381:ILE:HD12	2.38	0.57
1:e:577:ALA:O	1:e:581:VAL:HG12	2.04	0.57
1:A:41:SER:HB3	1:A:44:GLU:H	1.68	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:82:ARG:CZ	1:A:82:ARG:HB2	2.33	0.57
1:A:424:SER:C	1:A:427:LEU:H	2.12	0.57
1:C:252:ALA:O	1:C:255:ALA:CB	2.51	0.57
1:C:260:CYS:O	1:C:262:ILE:N	2.38	0.57
1:C:478:ILE:O	1:C:479:GLU:HG2	2.04	0.57
1:C:970:UNK:O	1:C:971:UNK:C	2.52	0.57
1:E:26:ASN:HA	2:F:81:GLN:HG3	1.86	0.57
1:E:41:SER:HB3	1:E:44:GLU:H	1.68	0.57
1:G:234:SER:OG	1:G:236:PRO:HD2	2.05	0.57
1:G:250:ALA:CB	1:G:274:PHE:CD2	2.87	0.57
1:G:345:ASN:O	1:G:346:CYS:C	2.47	0.57
1:G:371:ARG:CB	1:G:389:ILE:HG12	2.29	0.57
1:I:375:PHE:CZ	1:I:381:ILE:HD12	2.38	0.57
2:J:77:LEU:HA	2:J:80:THR:CG2	2.34	0.57
1:K:207:TRP:CD1	1:K:227:GLU:HG2	2.37	0.57
1:K:342:LYS:CG	1:K:343:HIS:H	2.17	0.57
1:K:375:PHE:CZ	1:K:381:ILE:HD12	2.38	0.57
1:M:252:ALA:O	1:M:255:ALA:CB	2.51	0.57
1:M:468:TYR:CE2	1:M:501:ILE:HD13	2.40	0.57
1:M:577:ALA:O	1:M:581:VAL:HG12	2.04	0.57
1:O:375:PHE:CD1	1:O:375:PHE:N	2.73	0.57
1:Q:15:ILE:HG21	1:Q:95:GLU:HB3	1.78	0.57
1:Q:207:TRP:CE3	1:Q:209:SER:HA	2.39	0.57
1:Q:291:THR:HG23	1:Q:319:THR:HB	1.86	0.57
1:S:250:ALA:CB	1:S:274:PHE:CD2	2.87	0.57
2:T:77:LEU:HA	2:T:80:THR:CG2	2.34	0.57
1:U:26:ASN:HA	2:V:81:GLN:HG3	1.86	0.57
1:U:372:LEU:HD11	1:U:422:ILE:HG12	1.82	0.57
2:V:43:ILE:HG12	2:V:89:LEU:CD2	2.34	0.57
2:Z:55:LEU:HB2	2:Z:59:PRO:HG3	1.87	0.57
1:a:345:ASN:O	1:a:346:CYS:C	2.47	0.57
1:a:375:PHE:CD1	1:a:375:PHE:N	2.73	0.57
1:a:424:SER:C	1:a:427:LEU:H	2.12	0.57
2:b:55:LEU:HB2	2:b:59:PRO:HG3	1.87	0.57
1:c:234:SER:C	1:c:235:LYS:HE3	2.29	0.57
1:c:371:ARG:HB3	1:c:389:ILE:HD13	1.74	0.57
1:c:468:TYR:CE2	1:c:501:ILE:HD13	2.40	0.57
2:d:25:LEU:HD21	2:d:106:LEU:HD13	1.85	0.57
2:d:57:GLY:H	2:d:59:PRO:CD	2.17	0.57
1:e:247:VAL:CG2	1:e:264:LEU:HD13	2.33	0.57
1:C:161:ALA:O	1:C:164:VAL:HG22	2.04	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:468:TYR:CE2	1:C:501:ILE:HD13	2.40	0.57
1:E:192:VAL:HG23	1:E:221:ILE:CD1	2.30	0.57
1:G:251:LYS:HD2	1:G:252:ALA:N	2.20	0.57
2:H:77:LEU:HA	2:H:80:THR:CG2	2.34	0.57
1:I:157:LYS:CA	1:I:285:LEU:CD1	2.76	0.57
1:I:250:ALA:CB	1:I:274:PHE:CD2	2.87	0.57
1:I:379:ALA:HB1	1:I:470:HIS:HE2	1.69	0.57
2:J:25:LEU:HD21	2:J:106:LEU:HD13	1.85	0.57
1:K:15:ILE:HD12	1:K:96:GLN:HA	1.86	0.57
1:K:138:LEU:HD21	1:K:170:VAL:CG1	2.31	0.57
1:K:345:ASN:O	1:K:347:ASP:N	2.37	0.57
1:K:492:LEU:HB3	1:K:580:GLN:OE1	2.04	0.57
2:L:55:LEU:HB2	2:L:59:PRO:HG3	1.87	0.57
1:M:251:LYS:HD2	1:M:252:ALA:N	2.20	0.57
1:M:375:PHE:CD1	1:M:375:PHE:N	2.73	0.57
1:M:424:SER:C	1:M:427:LEU:H	2.12	0.57
2:N:25:LEU:HD21	2:N:106:LEU:HD13	1.85	0.57
1:O:82:ARG:HB2	1:O:82:ARG:CZ	2.33	0.57
2:P:55:LEU:HB2	2:P:59:PRO:HG3	1.87	0.57
1:Q:15:ILE:CD1	1:Q:95:GLU:O	2.51	0.57
1:Q:41:SER:HB3	1:Q:44:GLU:H	1.68	0.57
1:Q:260:CYS:O	1:Q:262:ILE:N	2.38	0.57
2:R:18:ILE:HG12	2:R:106:LEU:HD11	1.84	0.57
2:R:55:LEU:HB2	2:R:59:PRO:HG3	1.87	0.57
1:S:138:LEU:HD21	1:S:170:VAL:CG1	2.31	0.57
1:S:251:LYS:HD2	1:S:252:ALA:N	2.20	0.57
1:S:345:ASN:O	1:S:346:CYS:C	2.47	0.57
1:U:247:VAL:CG2	1:U:264:LEU:HD13	2.34	0.57
1:U:284:SER:OG	1:U:287:HIS:HB2	2.05	0.57
1:U:388:LEU:HD23	1:U:388:LEU:H	1.68	0.57
2:V:57:GLY:H	2:V:59:PRO:CD	2.17	0.57
1:W:478:ILE:O	1:W:479:GLU:HG2	2.04	0.57
1:W:534:LYS:O	1:W:537:ARG:HG2	2.05	0.57
1:W:970:UNK:O	1:W:971:UNK:C	2.52	0.57
1:Y:207:TRP:CE3	1:Y:209:SER:HA	2.39	0.57
1:Y:460:PRO:HG2	1:Y:462:TYR:CZ	2.37	0.57
2:b:81:GLN:HA	2:b:81:GLN:NE2	2.08	0.57
1:c:251:LYS:HD2	1:c:252:ALA:N	2.20	0.57
1:c:252:ALA:O	1:c:255:ALA:CB	2.51	0.57
1:c:375:PHE:CD1	1:c:375:PHE:N	2.73	0.57
1:c:424:SER:C	1:c:427:LEU:H	2.12	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:f:55:LEU:HB2	2:f:59:PRO:HG3	1.87	0.57
1:A:342:LYS:CG	1:A:343:HIS:H	2.17	0.57
1:C:353:ILE:HG21	1:C:426:TYR:HB3	1.80	0.57
1:C:534:LYS:O	1:C:537:ARG:HG2	2.05	0.57
1:E:247:VAL:CG2	1:E:264:LEU:HD13	2.34	0.57
1:E:284:SER:OG	1:E:287:HIS:HB2	2.05	0.57
1:E:424:SER:C	1:E:427:LEU:H	2.12	0.57
1:E:488:ARG:CG	1:E:488:ARG:NH1	2.65	0.57
1:E:882:UNK:CA	1:E:883:UNK:N	2.62	0.57
2:F:57:GLY:H	2:F:59:PRO:CD	2.17	0.57
1:G:73:VAL:O	1:G:76:PHE:CB	2.45	0.57
1:G:247:VAL:CG2	1:G:264:LEU:HD13	2.33	0.57
1:G:374:VAL:CG2	1:G:375:PHE:CZ	2.85	0.57
1:G:534:LYS:O	1:G:537:ARG:HG2	2.05	0.57
1:I:375:PHE:CD1	1:I:375:PHE:N	2.73	0.57
1:I:468:TYR:CE2	1:I:501:ILE:HD13	2.40	0.57
1:K:375:PHE:CD1	1:K:375:PHE:N	2.73	0.57
1:M:125:VAL:HB	3:M:2000:ADP:N1	2.20	0.57
1:M:207:TRP:CD1	1:M:227:GLU:HG2	2.37	0.57
1:M:405:LEU:CB	1:M:411:VAL:HG11	2.28	0.57
1:O:379:ALA:HB1	1:O:470:HIS:HE2	1.69	0.57
1:Q:118:GLN:C	1:Q:120:PHE:N	2.58	0.57
1:Q:148:LEU:C	1:Q:149:ILE:HG13	2.29	0.57
1:Q:235:LYS:HE2	1:Q:238:GLU:CG	2.28	0.57
1:S:534:LYS:O	1:S:537:ARG:HG2	2.05	0.57
1:U:41:SER:HB3	1:U:44:GLU:H	1.68	0.57
1:U:250:ALA:CB	1:U:274:PHE:CD2	2.87	0.57
1:U:260:CYS:O	1:U:262:ILE:N	2.38	0.57
1:U:488:ARG:CG	1:U:488:ARG:NH1	2.65	0.57
1:W:252:ALA:O	1:W:255:ALA:CB	2.51	0.57
1:W:468:TYR:CE2	1:W:501:ILE:HD13	2.40	0.57
2:X:25:LEU:HD21	2:X:106:LEU:HD13	1.85	0.57
1:Y:15:ILE:CD1	1:Y:95:GLU:O	2.51	0.57
1:Y:148:LEU:C	1:Y:149:ILE:HG13	2.29	0.57
1:Y:235:LYS:HE2	1:Y:238:GLU:CG	2.28	0.57
1:Y:260:CYS:O	1:Y:262:ILE:N	2.38	0.57
1:Y:468:TYR:CE2	1:Y:501:ILE:HD13	2.40	0.57
1:a:379:ALA:HB1	1:a:470:HIS:HE2	1.69	0.57
1:c:125:VAL:HB	3:c:2000:ADP:N1	2.20	0.57
1:c:207:TRP:CD1	1:c:227:GLU:HG2	2.37	0.57
1:c:207:TRP:CE3	1:c:209:SER:HA	2.39	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:c:388:LEU:HD23	1:c:388:LEU:H	1.68	0.57
1:c:405:LEU:CB	1:c:411:VAL:HG11	2.28	0.57
1:e:15:ILE:HD12	1:e:96:GLN:HA	1.86	0.57
1:e:207:TRP:CD1	1:e:227:GLU:HG2	2.37	0.57
1:e:342:LYS:CG	1:e:343:HIS:H	2.17	0.57
1:e:345:ASN:O	1:e:347:ASP:N	2.37	0.57
1:e:375:PHE:CD1	1:e:375:PHE:N	2.73	0.57
1:e:410:LEU:HA	1:e:426:TYR:HE1	1.65	0.57
1:A:234:SER:C	1:A:235:LYS:HE3	2.29	0.57
1:A:250:ALA:CB	1:A:274:PHE:CD2	2.87	0.57
1:A:375:PHE:CD1	1:A:375:PHE:N	2.73	0.57
1:A:468:TYR:CE2	1:A:501:ILE:HD13	2.40	0.57
2:B:25:LEU:HD21	2:B:106:LEU:HD13	1.85	0.57
2:B:43:ILE:HG12	2:B:89:LEU:CD2	2.34	0.57
1:C:284:SER:OG	1:C:287:HIS:HB2	2.05	0.57
1:C:371:ARG:HB3	1:C:389:ILE:HD13	1.74	0.57
1:C:539:VAL:O	1:C:542:ILE:HG13	2.05	0.57
2:D:25:LEU:HD21	2:D:106:LEU:HD13	1.85	0.57
1:E:250:ALA:CB	1:E:274:PHE:CD2	2.87	0.57
1:E:260:CYS:O	1:E:262:ILE:N	2.38	0.57
1:E:388:LEU:HD23	1:E:388:LEU:H	1.68	0.57
1:E:562:LEU:H	1:E:562:LEU:HD22	1.68	0.57
1:G:411:VAL:N	1:G:422:ILE:HG23	2.18	0.57
1:G:557:LYS:HE3	1:G:558:TYR:H	1.70	0.57
1:I:41:SER:HB3	1:I:44:GLU:H	1.68	0.57
1:K:65:LEU:HD22	1:K:76:PHE:CE2	2.40	0.57
1:M:207:TRP:CE3	1:M:209:SER:HA	2.39	0.57
1:M:475:LEU:HA	1:M:478:ILE:HG12	1.87	0.57
1:O:44:GLU:O	1:O:47:HIS:HB3	2.05	0.57
1:O:557:LYS:HE3	1:O:558:TYR:H	1.70	0.57
1:Q:466:TYR:C	1:Q:466:TYR:CD1	2.83	0.57
1:Q:468:TYR:CE2	1:Q:501:ILE:HD13	2.40	0.57
1:S:247:VAL:CG2	1:S:264:LEU:HD13	2.33	0.57
1:S:260:CYS:O	1:S:262:ILE:N	2.38	0.57
1:S:374:VAL:CG2	1:S:375:PHE:CZ	2.85	0.57
1:U:424:SER:C	1:U:427:LEU:H	2.12	0.57
2:V:77:LEU:HA	2:V:80:THR:CG2	2.34	0.57
1:W:97:ARG:O	1:W:98:GLN:HG2	2.05	0.57
1:W:161:ALA:O	1:W:164:VAL:HG22	2.04	0.57
1:W:258:LEU:O	1:W:259:SER:CB	2.47	0.57
1:W:488:ARG:HA	1:W:491:PHE:H	1.69	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Y:424:SER:HA	1:Y:427:LEU:CB	2.12	0.57
1:Y:424:SER:C	1:Y:427:LEU:H	2.12	0.57
1:Y:970:UNK:O	1:Y:971:UNK:C	2.52	0.57
1:a:44:GLU:O	1:a:47:HIS:HB3	2.05	0.57
1:a:125:VAL:HB	3:a:2000:ADP:N1	2.20	0.57
1:a:534:LYS:O	1:a:537:ARG:HG2	2.05	0.57
1:c:26:ASN:HA	2:d:81:GLN:HG3	1.86	0.57
1:c:372:LEU:HD23	1:c:372:LEU:C	2.29	0.57
1:c:475:LEU:HA	1:c:478:ILE:HG12	1.87	0.57
1:e:65:LEU:HD22	1:e:76:PHE:CE2	2.40	0.57
1:e:125:VAL:HB	3:e:2000:ADP:N1	2.20	0.57
1:e:478:ILE:O	1:e:479:GLU:HG2	2.04	0.57
1:e:492:LEU:HB3	1:e:580:GLN:OE1	2.04	0.57
1:e:538:LEU:HD21	1:e:572:ALA:N	2.14	0.57
1:A:466:TYR:C	1:A:466:TYR:CD1	2.83	0.57
1:C:97:ARG:O	1:C:98:GLN:HG2	2.05	0.57
1:C:422:ILE:HG23	1:C:423:PRO:HD3	1.86	0.57
1:C:488:ARG:HA	1:C:491:PHE:H	1.69	0.57
1:E:379:ALA:HB1	1:E:470:HIS:HE2	1.69	0.57
1:E:534:LYS:O	1:E:537:ARG:HG2	2.05	0.57
2:F:77:LEU:HA	2:F:80:THR:CG2	2.34	0.57
1:G:138:LEU:HD21	1:G:170:VAL:CG1	2.31	0.57
1:G:260:CYS:O	1:G:262:ILE:N	2.38	0.57
1:G:375:PHE:CD1	1:G:375:PHE:N	2.73	0.57
1:I:342:LYS:CG	1:I:343:HIS:H	2.17	0.57
1:I:415:PRO:O	1:I:418:SER:HA	2.05	0.57
1:I:466:TYR:C	1:I:466:TYR:CD1	2.83	0.57
2:J:43:ILE:HG12	2:J:89:LEU:CD2	2.34	0.57
1:K:125:VAL:HB	3:K:2000:ADP:N1	2.20	0.57
1:K:466:TYR:CD1	1:K:466:TYR:C	2.83	0.57
1:K:478:ILE:O	1:K:479:GLU:HG2	2.04	0.57
1:M:26:ASN:HA	2:N:81:GLN:HG3	1.86	0.57
1:M:372:LEU:HD23	1:M:372:LEU:C	2.29	0.57
1:O:125:VAL:HB	3:O:2000:ADP:N1	2.20	0.57
1:O:148:LEU:C	1:O:149:ILE:HG13	2.29	0.57
1:O:260:CYS:O	1:O:262:ILE:N	2.38	0.57
1:O:534:LYS:O	1:O:537:ARG:HG2	2.05	0.57
1:Q:353:ILE:HD12	1:Q:425:ILE:HG13	1.87	0.57
1:Q:478:ILE:O	1:Q:479:GLU:HG2	2.04	0.57
1:S:489:MET:CB	1:S:539:VAL:HB	2.31	0.57
1:S:557:LYS:HE3	1:S:558:TYR:H	1.70	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:U:65:LEU:HD22	1:U:76:PHE:CE2	2.40	0.57
1:U:534:LYS:O	1:U:537:ARG:HG2	2.05	0.57
1:U:557:LYS:HE3	1:U:558:TYR:H	1.70	0.57
1:U:882:UNK:CA	1:U:883:UNK:N	2.62	0.57
1:W:284:SER:OG	1:W:287:HIS:HB2	2.05	0.57
1:W:422:ILE:HG23	1:W:423:PRO:HD3	1.86	0.57
1:W:539:VAL:O	1:W:542:ILE:HG13	2.05	0.57
2:X:55:LEU:HB2	2:X:59:PRO:HG3	1.87	0.57
1:Y:234:SER:OG	1:Y:236:PRO:HD2	2.05	0.57
1:Y:263:LEU:HG	1:Y:263:LEU:O	2.04	0.57
1:Y:466:TYR:C	1:Y:466:TYR:CD1	2.83	0.57
1:Y:577:ALA:O	1:Y:581:VAL:HG12	2.04	0.57
1:a:148:LEU:C	1:a:149:ILE:HG13	2.29	0.57
1:a:260:CYS:O	1:a:262:ILE:N	2.38	0.57
1:a:405:LEU:CB	1:a:411:VAL:HG11	2.28	0.57
1:a:557:LYS:HE3	1:a:558:TYR:H	1.70	0.57
1:e:353:ILE:HD12	1:e:425:ILE:HG13	1.87	0.57
1:e:466:TYR:CD1	1:e:466:TYR:C	2.83	0.57
1:e:489:MET:CB	1:e:539:VAL:HB	2.31	0.57
1:A:138:LEU:O	1:A:141:LEU:HB3	2.05	0.57
1:A:154:GLY:HA3	1:A:322:ARG:HB2	1.87	0.57
1:A:415:PRO:O	1:A:418:SER:HA	2.05	0.57
2:D:55:LEU:HB2	2:D:59:PRO:HG3	1.87	0.57
1:E:44:GLU:O	1:E:47:HIS:HB3	2.05	0.57
1:E:65:LEU:HD22	1:E:76:PHE:CE2	2.40	0.57
1:E:263:LEU:HG	1:E:263:LEU:O	2.04	0.57
1:E:345:ASN:O	1:E:347:ASP:N	2.37	0.57
1:G:148:LEU:C	1:G:149:ILE:HG13	2.29	0.57
1:G:379:ALA:HB1	1:G:470:HIS:HE2	1.69	0.57
1:G:882:UNK:CA	1:G:883:UNK:N	2.62	0.57
2:H:23:ASN:N	2:H:23:ASN:OD1	2.34	0.57
2:H:43:ILE:HG12	2:H:89:LEU:CD2	2.34	0.57
1:I:138:LEU:O	1:I:141:LEU:HB3	2.05	0.57
1:I:154:GLY:HA3	1:I:322:ARG:HB2	1.87	0.57
1:I:234:SER:C	1:I:235:LYS:HE3	2.29	0.57
1:K:97:ARG:O	1:K:98:GLN:HG2	2.05	0.57
1:K:353:ILE:HD12	1:K:425:ILE:HG13	1.87	0.57
1:K:371:ARG:HB3	1:K:389:ILE:HD13	1.74	0.57
1:K:410:LEU:HA	1:K:426:TYR:HE1	1.65	0.57
1:K:489:MET:CB	1:K:539:VAL:HB	2.31	0.57
1:K:538:LEU:HD21	1:K:572:ALA:N	2.14	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:65:LEU:HD22	1:M:76:PHE:CE2	2.40	0.57
2:N:77:LEU:HA	2:N:80:THR:CG2	2.34	0.57
1:O:65:LEU:HD22	1:O:76:PHE:CE2	2.40	0.57
1:O:405:LEU:CB	1:O:411:VAL:HG11	2.28	0.57
1:Q:97:ARG:O	1:Q:98:GLN:HG2	2.05	0.57
1:Q:234:SER:OG	1:Q:236:PRO:HD2	2.05	0.57
1:Q:357:LEU:HD12	1:Q:366:ARG:NE	2.20	0.57
1:Q:410:LEU:N	1:Q:426:TYR:CE1	2.73	0.57
1:Q:424:SER:C	1:Q:427:LEU:H	2.12	0.57
1:Q:970:UNK:O	1:Q:971:UNK:C	2.52	0.57
1:S:148:LEU:C	1:S:149:ILE:HG13	2.29	0.57
1:S:411:VAL:N	1:S:422:ILE:HG23	2.18	0.57
1:U:44:GLU:O	1:U:47:HIS:HB3	2.05	0.57
1:U:192:VAL:HG23	1:U:221:ILE:CD1	2.30	0.57
1:U:562:LEU:H	1:U:562:LEU:HD22	1.68	0.57
1:Y:15:ILE:HG21	1:Y:95:GLU:HB3	1.78	0.57
1:Y:353:ILE:HD12	1:Y:425:ILE:HG13	1.87	0.57
1:Y:357:LEU:HD12	1:Y:366:ARG:NE	2.20	0.57
1:Y:379:ALA:HB1	1:Y:470:HIS:HE2	1.69	0.57
1:Y:475:LEU:HA	1:Y:478:ILE:HG12	1.87	0.57
1:c:65:LEU:HD22	1:c:76:PHE:CE2	2.40	0.57
1:e:97:ARG:O	1:e:98:GLN:HG2	2.05	0.57
1:A:97:ARG:O	1:A:98:GLN:HG2	2.05	0.56
1:A:247:VAL:CG2	1:A:264:LEU:HD13	2.34	0.56
1:A:557:LYS:HE3	1:A:558:TYR:H	1.70	0.56
1:C:258:LEU:O	1:C:259:SER:CB	2.47	0.56
1:C:415:PRO:O	1:C:418:SER:HA	2.05	0.56
1:C:466:TYR:CD1	1:C:466:TYR:C	2.83	0.56
1:C:990:UNK:O	1:C:991:UNK:C	2.52	0.56
2:D:44:LEU:H	2:D:44:LEU:CD1	2.15	0.56
1:E:460:PRO:HG2	1:E:462:TYR:CZ	2.37	0.56
1:E:557:LYS:HE3	1:E:558:TYR:H	1.70	0.56
2:F:55:LEU:HB2	2:F:59:PRO:HG3	1.87	0.56
1:G:15:ILE:HD12	1:G:96:GLN:HA	1.86	0.56
1:I:92:ILE:O	1:I:93:LYS:C	2.44	0.56
1:I:97:ARG:O	1:I:98:GLN:HG2	2.05	0.56
1:I:234:SER:OG	1:I:236:PRO:HD2	2.05	0.56
1:I:557:LYS:HE3	1:I:558:TYR:H	1.70	0.56
1:M:353:ILE:HD12	1:M:425:ILE:HG13	1.87	0.56
1:O:207:TRP:CE3	1:O:209:SER:HA	2.39	0.56
1:O:234:SER:C	1:O:235:LYS:HE3	2.29	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:O:368:MET:O	1:O:369:PHE:C	2.48	0.56
1:O:577:ALA:O	1:O:581:VAL:HG12	2.04	0.56
2:P:43:ILE:HG12	2:P:89:LEU:CD2	2.34	0.56
1:Q:263:LEU:HG	1:Q:263:LEU:O	2.04	0.56
1:Q:379:ALA:HB1	1:Q:470:HIS:HE2	1.69	0.56
1:Q:475:LEU:HA	1:Q:478:ILE:HG12	1.87	0.56
1:Q:534:LYS:O	1:Q:537:ARG:HG2	2.05	0.56
1:Q:577:ALA:O	1:Q:581:VAL:HG12	2.04	0.56
1:S:73:VAL:O	1:S:76:PHE:CB	2.45	0.56
1:S:375:PHE:CD1	1:S:375:PHE:N	2.73	0.56
1:S:379:ALA:HB1	1:S:470:HIS:HE2	1.69	0.56
1:U:345:ASN:O	1:U:347:ASP:N	2.37	0.56
1:U:379:ALA:HB1	1:U:470:HIS:HE2	1.69	0.56
1:U:538:LEU:HD21	1:U:572:ALA:N	2.14	0.56
1:W:234:SER:C	1:W:235:LYS:HE3	2.29	0.56
1:W:415:PRO:O	1:W:418:SER:HA	2.05	0.56
1:W:466:TYR:C	1:W:466:TYR:CD1	2.83	0.56
1:Y:97:ARG:O	1:Y:98:GLN:HG2	2.05	0.56
1:Y:207:TRP:CD1	1:Y:227:GLU:HG2	2.37	0.56
1:Y:410:LEU:N	1:Y:426:TYR:CE1	2.73	0.56
1:Y:478:ILE:O	1:Y:479:GLU:HG2	2.04	0.56
1:a:65:LEU:HD22	1:a:76:PHE:CE2	2.40	0.56
1:a:207:TRP:CE3	1:a:209:SER:HA	2.39	0.56
1:a:353:ILE:HD12	1:a:425:ILE:HG13	1.87	0.56
1:a:368:MET:O	1:a:369:PHE:C	2.48	0.56
1:a:577:ALA:O	1:a:581:VAL:HG12	2.04	0.56
2:b:43:ILE:HG12	2:b:89:LEU:CD2	2.34	0.56
1:e:82:ARG:CZ	1:e:82:ARG:HB2	2.33	0.56
1:A:92:ILE:O	1:A:93:LYS:C	2.44	0.56
1:A:234:SER:OG	1:A:236:PRO:HD2	2.05	0.56
1:A:284:SER:OG	1:A:287:HIS:HB2	2.05	0.56
1:A:410:LEU:N	1:A:426:TYR:CE1	2.73	0.56
1:C:352:ILE:CD1	1:C:352:ILE:H	2.18	0.56
1:E:138:LEU:O	1:E:141:LEU:HB3	2.05	0.56
1:E:327:ILE:CG2	1:E:341:TRP:CE3	2.84	0.56
1:E:409:SER:OG	1:E:410:LEU:N	2.38	0.56
1:E:468:TYR:CE2	1:E:501:ILE:HD13	2.40	0.56
1:E:488:ARG:HD2	1:E:494:PHE:HB2	1.87	0.56
1:G:44:GLU:O	1:G:47:HIS:HB3	2.05	0.56
1:G:284:SER:OG	1:G:287:HIS:HB2	2.05	0.56
1:G:488:ARG:HD3	1:G:491:PHE:HB2	1.88	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:488:ARG:HD2	1:G:494:PHE:HB2	1.87	0.56
1:G:489:MET:CB	1:G:539:VAL:HB	2.31	0.56
1:G:538:LEU:HD21	1:G:572:ALA:N	2.14	0.56
1:I:247:VAL:CG2	1:I:264:LEU:HD13	2.34	0.56
1:I:260:CYS:O	1:I:262:ILE:N	2.38	0.56
1:I:488:ARG:HA	1:I:491:PHE:H	1.69	0.56
1:K:26:ASN:HA	2:L:81:GLN:HG3	1.86	0.56
1:K:488:ARG:HD2	1:K:494:PHE:HB2	1.87	0.56
1:M:154:GLY:HA3	1:M:322:ARG:HB2	1.87	0.56
1:M:478:ILE:O	1:M:479:GLU:HG2	2.04	0.56
1:M:488:ARG:HA	1:M:491:PHE:H	1.69	0.56
1:O:242:LEU:HD23	1:O:262:ILE:CG2	2.35	0.56
1:O:353:ILE:HD12	1:O:425:ILE:HG13	1.87	0.56
1:O:466:TYR:C	1:O:466:TYR:CD1	2.83	0.56
1:O:478:ILE:O	1:O:479:GLU:HG2	2.04	0.56
1:Q:15:ILE:HD12	1:Q:96:GLN:HA	1.86	0.56
1:S:26:ASN:HA	2:T:81:GLN:HG3	1.86	0.56
1:S:422:ILE:HG23	1:S:423:PRO:HD3	1.86	0.56
1:S:488:ARG:HD3	1:S:491:PHE:HB2	1.88	0.56
1:S:488:ARG:HD2	1:S:494:PHE:HB2	1.87	0.56
1:S:538:LEU:HD21	1:S:572:ALA:N	2.14	0.56
2:T:23:ASN:N	2:T:23:ASN:OD1	2.34	0.56
2:T:43:ILE:HG12	2:T:89:LEU:CD2	2.34	0.56
1:U:263:LEU:HG	1:U:263:LEU:O	2.04	0.56
1:U:468:TYR:CE2	1:U:501:ILE:HD13	2.40	0.56
1:U:488:ARG:HD2	1:U:494:PHE:HB2	1.87	0.56
2:V:55:LEU:HB2	2:V:59:PRO:HG3	1.87	0.56
1:W:882:UNK:CA	1:W:883:UNK:N	2.62	0.56
2:X:44:LEU:H	2:X:44:LEU:CD1	2.15	0.56
1:Y:15:ILE:HD12	1:Y:96:GLN:HA	1.86	0.56
1:Y:161:ALA:O	1:Y:164:VAL:HG22	2.04	0.56
1:Y:368:MET:O	1:Y:369:PHE:C	2.48	0.56
1:Y:375:PHE:CD1	1:Y:375:PHE:N	2.73	0.56
1:Y:534:LYS:O	1:Y:537:ARG:HG2	2.05	0.56
1:a:234:SER:C	1:a:235:LYS:HE3	2.29	0.56
1:a:242:LEU:HD23	1:a:262:ILE:CG2	2.35	0.56
1:a:518:LEU:HD21	1:a:646:UNK:HA	1.86	0.56
1:c:234:SER:OG	1:c:236:PRO:HD2	2.05	0.56
1:c:488:ARG:HD2	1:c:494:PHE:HB2	1.87	0.56
2:d:77:LEU:HA	2:d:80:THR:CG2	2.34	0.56
1:e:26:ASN:HA	2:f:81:GLN:HG3	1.86	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:e:488:ARG:HD2	1:e:494:PHE:HB2	1.87	0.56
1:A:65:LEU:HD22	1:A:76:PHE:CE2	2.40	0.56
1:A:192:VAL:CB	1:A:221:ILE:HD12	2.21	0.56
1:A:242:LEU:HD23	1:A:262:ILE:CG2	2.35	0.56
1:A:260:CYS:O	1:A:262:ILE:N	2.38	0.56
1:A:288:HIS:CD2	1:A:288:HIS:N	2.73	0.56
1:A:388:LEU:HD23	1:A:388:LEU:H	1.68	0.56
1:A:488:ARG:HA	1:A:491:PHE:H	1.69	0.56
2:B:55:LEU:HB2	2:B:59:PRO:HG3	1.87	0.56
1:C:138:LEU:O	1:C:141:LEU:HB3	2.05	0.56
1:C:234:SER:C	1:C:235:LYS:HE3	2.29	0.56
1:C:360:LEU:CG	1:C:365:TYR:CB	2.48	0.56
2:D:64:GLU:O	2:D:65:LYS:C	2.44	0.56
1:E:415:PRO:O	1:E:418:SER:HA	2.05	0.56
1:E:488:ARG:CB	1:E:494:PHE:HB2	2.36	0.56
1:E:538:LEU:HD21	1:E:572:ALA:N	2.14	0.56
1:E:539:VAL:O	1:E:542:ILE:HG13	2.05	0.56
2:F:25:LEU:HD21	2:F:106:LEU:HD13	1.85	0.56
1:G:26:ASN:HA	2:H:81:GLN:HG3	1.86	0.56
1:G:138:LEU:O	1:G:141:LEU:HB3	2.05	0.56
1:G:357:LEU:HD12	1:G:366:ARG:NE	2.20	0.56
1:G:376:PRO:HG2	1:G:470:HIS:CD2	2.40	0.56
1:G:410:LEU:CD1	1:G:411:VAL:H	2.06	0.56
1:G:420:ILE:HG22	1:G:422:ILE:HD13	1.87	0.56
1:G:455:SER:OG	1:G:459:ILE:O	2.12	0.56
1:G:466:TYR:CD1	1:G:466:TYR:C	2.83	0.56
1:G:468:TYR:CE2	1:G:501:ILE:HD13	2.40	0.56
1:G:673:UNK:HA	1:G:682:UNK:O	2.06	0.56
2:H:55:LEU:HB2	2:H:59:PRO:HG3	1.87	0.56
1:I:125:VAL:HB	3:I:2000:ADP:N1	2.20	0.56
1:I:242:LEU:HD23	1:I:262:ILE:CG2	2.35	0.56
1:I:284:SER:OG	1:I:287:HIS:HB2	2.05	0.56
1:I:288:HIS:CD2	1:I:288:HIS:N	2.73	0.56
1:I:410:LEU:N	1:I:426:TYR:CE1	2.73	0.56
2:J:55:LEU:HB2	2:J:59:PRO:HG3	1.87	0.56
1:K:82:ARG:CZ	1:K:82:ARG:HB2	2.33	0.56
1:K:148:LEU:C	1:K:149:ILE:HG13	2.29	0.56
1:K:154:GLY:HA3	1:K:322:ARG:HB2	1.87	0.56
1:K:252:ALA:O	1:K:255:ALA:CB	2.51	0.56
1:K:288:HIS:CD2	1:K:288:HIS:N	2.73	0.56
1:K:410:LEU:N	1:K:426:TYR:CE1	2.73	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:420:ILE:HG22	1:K:422:ILE:HD13	1.87	0.56
1:K:488:ARG:HA	1:K:491:PHE:H	1.69	0.56
1:K:534:LYS:O	1:K:537:ARG:HG2	2.05	0.56
1:M:39:ILE:HD11	1:M:76:PHE:CB	2.34	0.56
1:M:138:LEU:O	1:M:141:LEU:HB3	2.05	0.56
1:M:234:SER:OG	1:M:236:PRO:HD2	2.05	0.56
1:M:460:PRO:HG2	1:M:462:TYR:CZ	2.37	0.56
1:M:488:ARG:HD2	1:M:494:PHE:HB2	1.87	0.56
1:O:15:ILE:HD12	1:O:96:GLN:HA	1.86	0.56
1:O:26:ASN:HA	2:P:81:GLN:HG3	1.86	0.56
1:O:104:ARG:HA	1:O:107:ILE:HG21	1.84	0.56
1:O:251:LYS:HD2	1:O:252:ALA:N	2.20	0.56
1:O:518:LEU:HD21	1:O:646:UNK:HA	1.86	0.56
1:O:539:VAL:O	1:O:542:ILE:HG13	2.05	0.56
1:Q:44:GLU:O	1:Q:47:HIS:HB3	2.05	0.56
1:Q:65:LEU:HD22	1:Q:76:PHE:CE2	2.40	0.56
1:Q:161:ALA:O	1:Q:164:VAL:HG22	2.04	0.56
1:Q:207:TRP:CD1	1:Q:227:GLU:HG2	2.37	0.56
1:Q:234:SER:C	1:Q:235:LYS:HE3	2.29	0.56
1:Q:242:LEU:HD23	1:Q:262:ILE:CG2	2.35	0.56
1:Q:284:SER:OG	1:Q:287:HIS:HB2	2.05	0.56
1:Q:368:MET:O	1:Q:369:PHE:C	2.48	0.56
1:Q:375:PHE:CD1	1:Q:375:PHE:N	2.73	0.56
1:Q:388:LEU:HD23	1:Q:388:LEU:H	1.68	0.56
1:Q:488:ARG:HA	1:Q:491:PHE:H	1.69	0.56
1:Q:492:LEU:HB3	1:Q:580:GLN:OE1	2.04	0.56
1:Q:539:VAL:O	1:Q:542:ILE:HG13	2.05	0.56
2:R:44:LEU:H	2:R:44:LEU:CD1	2.15	0.56
1:S:15:ILE:HD12	1:S:96:GLN:HA	1.86	0.56
1:S:44:GLU:O	1:S:47:HIS:HB3	2.05	0.56
1:S:284:SER:OG	1:S:287:HIS:HB2	2.05	0.56
1:S:410:LEU:N	1:S:426:TYR:CE1	2.73	0.56
1:S:466:TYR:C	1:S:466:TYR:CD1	2.83	0.56
1:S:673:UNK:HA	1:S:682:UNK:O	2.06	0.56
1:S:882:UNK:CA	1:S:883:UNK:N	2.62	0.56
2:T:55:LEU:HB2	2:T:59:PRO:HG3	1.87	0.56
1:U:82:ARG:HH11	1:U:82:ARG:CG	2.16	0.56
1:U:138:LEU:O	1:U:141:LEU:HB3	2.05	0.56
1:U:327:ILE:CG2	1:U:341:TRP:CE3	2.84	0.56
1:U:409:SER:OG	1:U:410:LEU:N	2.38	0.56
1:U:460:PRO:HG2	1:U:462:TYR:CZ	2.37	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:U:488:ARG:CB	1:U:494:PHE:HB2	2.36	0.56
1:U:488:ARG:HA	1:U:491:PHE:H	1.69	0.56
1:U:488:ARG:HD3	1:U:491:PHE:HB2	1.88	0.56
1:U:539:VAL:O	1:U:542:ILE:HG13	2.05	0.56
1:W:352:ILE:CD1	1:W:352:ILE:H	2.18	0.56
1:W:360:LEU:CG	1:W:365:TYR:CB	2.48	0.56
1:W:371:ARG:HB3	1:W:389:ILE:HD13	1.74	0.56
1:W:990:UNK:O	1:W:991:UNK:C	2.52	0.56
2:X:64:GLU:O	2:X:65:LYS:C	2.44	0.56
1:Y:125:VAL:HB	3:Y:2000:ADP:N1	2.20	0.56
1:Y:234:SER:C	1:Y:235:LYS:HE3	2.29	0.56
1:Y:242:LEU:HD23	1:Y:262:ILE:CG2	2.35	0.56
1:Y:284:SER:OG	1:Y:287:HIS:HB2	2.05	0.56
1:Y:388:LEU:HD23	1:Y:388:LEU:H	1.68	0.56
1:Y:420:ILE:HG22	1:Y:422:ILE:HD13	1.87	0.56
1:Y:488:ARG:HA	1:Y:491:PHE:H	1.69	0.56
1:Y:492:LEU:HB3	1:Y:580:GLN:OE1	2.04	0.56
2:Z:44:LEU:H	2:Z:44:LEU:CD1	2.15	0.56
2:Z:77:LEU:HA	2:Z:80:THR:CG2	2.34	0.56
1:a:26:ASN:HA	2:b:81:GLN:HG3	1.86	0.56
1:a:86:LYS:HE3	1:a:89:MET:HE1	1.85	0.56
1:a:104:ARG:HA	1:a:107:ILE:HG21	1.84	0.56
1:a:258:LEU:O	1:a:259:SER:CB	2.47	0.56
1:a:317:LEU:O	1:a:318:THR:OG1	2.20	0.56
1:a:466:TYR:CD1	1:a:466:TYR:C	2.83	0.56
1:a:468:TYR:CE2	1:a:501:ILE:HD13	2.40	0.56
1:a:478:ILE:O	1:a:479:GLU:HG2	2.04	0.56
1:a:539:VAL:O	1:a:542:ILE:HG13	2.05	0.56
1:c:87:PHE:CE2	2:d:83:GLY:HA3	2.33	0.56
1:c:154:GLY:HA3	1:c:322:ARG:HB2	1.87	0.56
1:c:352:ILE:CD1	1:c:352:ILE:H	2.18	0.56
1:c:353:ILE:HD12	1:c:425:ILE:HG13	1.87	0.56
1:c:478:ILE:O	1:c:479:GLU:HG2	2.04	0.56
1:c:488:ARG:HA	1:c:491:PHE:H	1.69	0.56
1:e:148:LEU:C	1:e:149:ILE:HG13	2.29	0.56
1:e:154:GLY:HA3	1:e:322:ARG:HB2	1.87	0.56
1:e:263:LEU:HG	1:e:263:LEU:O	2.04	0.56
1:e:288:HIS:CD2	1:e:288:HIS:N	2.73	0.56
1:e:410:LEU:N	1:e:426:TYR:CE1	2.73	0.56
1:e:424:SER:C	1:e:427:LEU:H	2.12	0.56
1:e:534:LYS:O	1:e:537:ARG:HG2	2.05	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:125:VAL:HB	3:A:2000:ADP:N1	2.20	0.56
1:A:376:PRO:HG2	1:A:470:HIS:CD2	2.40	0.56
1:C:207:TRP:CD1	1:C:227:GLU:HG2	2.37	0.56
1:C:345:ASN:O	1:C:346:CYS:C	2.47	0.56
1:C:409:SER:OG	1:C:410:LEU:N	2.38	0.56
1:C:488:ARG:HD2	1:C:494:PHE:HB2	1.87	0.56
1:E:82:ARG:HH11	1:E:82:ARG:CG	2.16	0.56
1:E:410:LEU:N	1:E:426:TYR:CE1	2.73	0.56
1:E:466:TYR:C	1:E:466:TYR:CD1	2.83	0.56
1:E:488:ARG:HA	1:E:491:PHE:H	1.69	0.56
1:E:488:ARG:HD3	1:E:491:PHE:HB2	1.88	0.56
1:E:673:UNK:HA	1:E:682:UNK:O	2.06	0.56
1:G:410:LEU:N	1:G:426:TYR:CE1	2.73	0.56
1:G:422:ILE:HG23	1:G:423:PRO:HD3	1.86	0.56
1:I:376:PRO:HG2	1:I:470:HIS:CD2	2.40	0.56
1:K:424:SER:C	1:K:427:LEU:H	2.12	0.56
1:M:179:PHE:N	1:M:179:PHE:CD1	2.72	0.56
1:M:374:VAL:HG21	1:M:375:PHE:CZ	2.41	0.56
2:N:77:LEU:HA	2:N:80:THR:HG21	1.88	0.56
1:O:409:SER:OG	1:O:410:LEU:N	2.38	0.56
1:O:468:TYR:CE2	1:O:501:ILE:HD13	2.40	0.56
1:O:488:ARG:HA	1:O:491:PHE:H	1.69	0.56
1:Q:26:ASN:HA	2:R:81:GLN:HG3	1.86	0.56
1:Q:125:VAL:HB	3:Q:2000:ADP:N1	2.20	0.56
1:Q:420:ILE:HG22	1:Q:422:ILE:HD13	1.87	0.56
2:R:77:LEU:HA	2:R:80:THR:CG2	2.34	0.56
1:S:138:LEU:O	1:S:141:LEU:HB3	2.05	0.56
1:S:357:LEU:HD12	1:S:366:ARG:NE	2.20	0.56
1:S:376:PRO:HG2	1:S:470:HIS:CD2	2.40	0.56
1:S:420:ILE:HG22	1:S:422:ILE:HD13	1.87	0.56
1:S:468:TYR:CE2	1:S:501:ILE:HD13	2.40	0.56
1:U:415:PRO:O	1:U:418:SER:HA	2.05	0.56
1:U:466:TYR:C	1:U:466:TYR:CD1	2.83	0.56
1:U:673:UNK:HA	1:U:682:UNK:O	2.06	0.56
2:V:25:LEU:HD21	2:V:106:LEU:HD13	1.85	0.56
1:W:138:LEU:O	1:W:141:LEU:HB3	2.05	0.56
1:W:409:SER:OG	1:W:410:LEU:N	2.38	0.56
1:Y:44:GLU:O	1:Y:47:HIS:HB3	2.05	0.56
1:Y:65:LEU:HD22	1:Y:76:PHE:CE2	2.40	0.56
1:a:15:ILE:HD12	1:a:96:GLN:HA	1.86	0.56
1:a:243:VAL:CG1	1:a:263:LEU:CG	2.73	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:a:352:ILE:CD1	1:a:352:ILE:H	2.18	0.56
1:a:420:ILE:HG22	1:a:422:ILE:HD13	1.87	0.56
1:a:422:ILE:HG23	1:a:423:PRO:HD3	1.86	0.56
1:c:39:ILE:HD11	1:c:76:PHE:CB	2.34	0.56
1:c:138:LEU:O	1:c:141:LEU:HB3	2.05	0.56
1:c:374:VAL:HG21	1:c:375:PHE:CZ	2.41	0.56
1:c:376:PRO:HG2	1:c:470:HIS:CD2	2.40	0.56
2:d:77:LEU:HA	2:d:80:THR:HG21	1.88	0.56
1:e:420:ILE:HG22	1:e:422:ILE:HD13	1.87	0.56
1:e:468:TYR:CE2	1:e:501:ILE:HD13	2.40	0.56
1:E:368:MET:O	1:E:369:PHE:C	2.48	0.56
1:G:65:LEU:HD22	1:G:76:PHE:CE2	2.40	0.56
1:G:104:ARG:HA	1:G:107:ILE:HG21	1.84	0.56
1:G:242:LEU:HD23	1:G:262:ILE:CG2	2.35	0.56
1:G:449:ILE:HG23	1:G:450:PRO:CD	2.36	0.56
1:G:970:UNK:O	1:G:971:UNK:C	2.52	0.56
1:I:39:ILE:HD11	1:I:76:PHE:CB	2.34	0.56
1:I:65:LEU:HD22	1:I:76:PHE:CE2	2.40	0.56
1:K:263:LEU:HG	1:K:263:LEU:O	2.04	0.56
1:K:409:SER:OG	1:K:410:LEU:N	2.38	0.56
1:K:410:LEU:CG	1:K:423:PRO:CD	2.47	0.56
1:K:468:TYR:CE2	1:K:501:ILE:HD13	2.40	0.56
2:L:57:GLY:H	2:L:59:PRO:CD	2.17	0.56
1:M:488:ARG:HD3	1:M:491:PHE:HB2	1.88	0.56
1:O:179:PHE:N	1:O:179:PHE:CD1	2.72	0.56
1:O:234:SER:OG	1:O:236:PRO:HD2	2.05	0.56
1:O:352:ILE:CD1	1:O:352:ILE:H	2.18	0.56
1:O:422:ILE:HG23	1:O:423:PRO:HD3	1.86	0.56
1:Q:138:LEU:O	1:Q:141:LEU:HB3	2.05	0.56
1:S:242:LEU:HD23	1:S:262:ILE:CG2	2.35	0.56
1:S:449:ILE:HG23	1:S:450:PRO:CD	2.36	0.56
1:U:97:ARG:O	1:U:98:GLN:HG2	2.05	0.56
1:U:368:MET:O	1:U:369:PHE:C	2.48	0.56
1:U:410:LEU:N	1:U:426:TYR:CE1	2.73	0.56
1:W:207:TRP:CD1	1:W:227:GLU:HG2	2.37	0.56
1:W:353:ILE:HD12	1:W:425:ILE:HG13	1.87	0.56
1:W:488:ARG:HD2	1:W:494:PHE:HB2	1.87	0.56
1:Y:26:ASN:HA	2:Z:81:GLN:HG3	1.86	0.56
1:Y:539:VAL:O	1:Y:542:ILE:HG13	2.05	0.56
1:a:251:LYS:HD2	1:a:252:ALA:N	2.20	0.56
1:a:353:ILE:HG21	1:a:426:TYR:HB3	1.80	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:a:409:SER:OG	1:a:410:LEU:N	2.38	0.56
1:a:488:ARG:HD2	1:a:494:PHE:HB2	1.87	0.56
2:b:77:LEU:HA	2:b:80:THR:HG21	1.88	0.56
1:c:179:PHE:N	1:c:179:PHE:CD1	2.72	0.56
1:c:488:ARG:HD3	1:c:491:PHE:HB2	1.88	0.56
1:e:138:LEU:O	1:e:141:LEU:HB3	2.05	0.56
1:e:252:ALA:O	1:e:255:ALA:CB	2.51	0.56
1:e:371:ARG:HB3	1:e:389:ILE:HD13	1.74	0.56
1:e:376:PRO:HG2	1:e:470:HIS:CD2	2.40	0.56
1:e:409:SER:OG	1:e:410:LEU:N	2.38	0.56
1:e:488:ARG:HA	1:e:491:PHE:H	1.69	0.56
1:A:39:ILE:HD11	1:A:76:PHE:CB	2.34	0.56
1:A:44:GLU:O	1:A:48:ILE:HG13	2.06	0.56
1:A:374:VAL:HG21	1:A:375:PHE:CZ	2.41	0.56
1:A:491:PHE:CA	1:A:576:GLU:HG2	2.36	0.56
1:C:353:ILE:HD12	1:C:425:ILE:HG13	1.87	0.56
1:C:368:MET:O	1:C:369:PHE:C	2.48	0.56
1:C:882:UNK:CA	1:C:883:UNK:N	2.62	0.56
1:E:44:GLU:O	1:E:48:ILE:HG13	2.06	0.56
1:E:97:ARG:O	1:E:98:GLN:HG2	2.05	0.56
1:G:154:GLY:HA3	1:G:322:ARG:HB2	1.87	0.56
1:G:162:LEU:HG	1:G:180:TRP:CH2	2.41	0.56
1:G:327:ILE:CG2	1:G:341:TRP:CE3	2.84	0.56
1:I:26:ASN:HA	2:J:81:GLN:HG3	1.86	0.56
1:I:374:VAL:HG21	1:I:375:PHE:CZ	2.41	0.56
1:I:488:ARG:HD2	1:I:494:PHE:HB2	1.87	0.56
1:I:491:PHE:CA	1:I:576:GLU:HG2	2.36	0.56
1:I:539:VAL:O	1:I:542:ILE:HG13	2.05	0.56
1:K:376:PRO:HG2	1:K:470:HIS:CD2	2.40	0.56
1:M:87:PHE:HD1	1:M:88:LEU:CD1	2.09	0.56
1:M:260:CYS:O	1:M:262:ILE:N	2.38	0.56
1:M:376:PRO:HG2	1:M:470:HIS:CD2	2.40	0.56
1:M:882:UNK:CA	1:M:883:UNK:N	2.62	0.56
1:O:86:LYS:HE3	1:O:89:MET:HE1	1.85	0.56
1:O:258:LEU:O	1:O:259:SER:CB	2.47	0.56
1:O:317:LEU:O	1:O:318:THR:OG1	2.20	0.56
1:O:488:ARG:HD2	1:O:494:PHE:HB2	1.87	0.56
2:P:77:LEU:HA	2:P:80:THR:HG21	1.88	0.56
1:Q:162:LEU:HG	1:Q:180:TRP:CH2	2.41	0.56
1:Q:352:ILE:CD1	1:Q:352:ILE:H	2.18	0.56
1:S:65:LEU:HD22	1:S:76:PHE:CE2	2.40	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:S:104:ARG:HA	1:S:107:ILE:HG21	1.84	0.56
1:S:154:GLY:HA3	1:S:322:ARG:HB2	1.87	0.56
1:S:162:LEU:HG	1:S:180:TRP:CH2	2.41	0.56
1:S:317:LEU:O	1:S:318:THR:OG1	2.20	0.56
1:S:327:ILE:CG2	1:S:341:TRP:CE3	2.84	0.56
1:S:415:PRO:O	1:S:418:SER:HA	2.05	0.56
1:S:455:SER:OG	1:S:459:ILE:O	2.12	0.56
1:U:44:GLU:O	1:U:48:ILE:HG13	2.06	0.56
1:W:44:GLU:O	1:W:47:HIS:HB3	2.05	0.56
1:W:65:LEU:HD22	1:W:76:PHE:CE2	2.40	0.56
1:W:345:ASN:O	1:W:346:CYS:C	2.47	0.56
1:Y:138:LEU:O	1:Y:141:LEU:HB3	2.05	0.56
1:Y:162:LEU:HG	1:Y:180:TRP:CH2	2.41	0.56
1:Y:231:LEU:HD23	1:Y:237:TYR:HE2	1.68	0.56
1:Y:327:ILE:CG2	1:Y:341:TRP:HE3	2.16	0.56
1:a:138:LEU:HD21	1:a:170:VAL:HG11	1.78	0.56
1:a:179:PHE:N	1:a:179:PHE:CD1	2.72	0.56
1:a:234:SER:OG	1:a:236:PRO:HD2	2.05	0.56
1:a:488:ARG:HA	1:a:491:PHE:H	1.69	0.56
1:c:87:PHE:HD1	1:c:88:LEU:CD1	2.09	0.56
1:c:217:ILE:HG12	1:c:217:ILE:O	2.06	0.56
1:c:260:CYS:O	1:c:262:ILE:N	2.38	0.56
1:c:460:PRO:HG2	1:c:462:TYR:CZ	2.37	0.56
1:e:44:GLU:O	1:e:48:ILE:HG13	2.06	0.56
1:e:235:LYS:HE2	1:e:238:GLU:CG	2.28	0.56
1:e:260:CYS:O	1:e:262:ILE:N	2.38	0.56
1:e:518:LEU:HD21	1:e:646:UNK:HA	1.86	0.56
2:f:57:GLY:H	2:f:59:PRO:CD	2.17	0.56
1:A:26:ASN:HA	2:B:81:GLN:HG3	1.86	0.56
1:A:423:PRO:O	1:A:427:LEU:CB	2.54	0.56
1:A:539:VAL:O	1:A:542:ILE:HG13	2.05	0.56
1:C:44:GLU:O	1:C:47:HIS:HB3	2.05	0.56
1:E:91:PRO:O	1:E:94:THR:HB	2.06	0.56
1:E:234:SER:OG	1:E:236:PRO:HD2	2.05	0.56
1:E:352:ILE:CD1	1:E:352:ILE:H	2.18	0.56
1:E:990:UNK:O	1:E:991:UNK:C	2.52	0.56
1:G:488:ARG:HA	1:G:491:PHE:H	1.69	0.56
1:I:44:GLU:O	1:I:48:ILE:HG13	2.06	0.56
1:I:44:GLU:O	1:I:47:HIS:HB3	2.05	0.56
1:I:353:ILE:HD12	1:I:425:ILE:HG13	1.87	0.56
1:I:371:ARG:HG3	1:I:389:ILE:HD11	1.65	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:423:PRO:O	1:I:427:LEU:CB	2.54	0.56
1:K:44:GLU:O	1:K:48:ILE:HG13	2.06	0.56
1:K:138:LEU:O	1:K:141:LEU:HB3	2.05	0.56
1:K:260:CYS:O	1:K:262:ILE:N	2.38	0.56
1:K:518:LEU:HD21	1:K:646:UNK:HA	1.86	0.56
2:L:10:MET:HB3	2:L:84:PRO:HA	1.88	0.56
1:M:217:ILE:O	1:M:217:ILE:HG12	2.06	0.56
1:M:534:LYS:O	1:M:537:ARG:HG2	2.05	0.56
1:O:97:ARG:O	1:O:98:GLN:HG2	2.05	0.56
1:O:342:LYS:CG	1:O:343:HIS:N	2.69	0.56
1:O:536:GLU:HA	1:O:539:VAL:HG13	1.87	0.56
1:Q:151:GLY:HA2	1:Q:286:ASP:CG	2.30	0.56
1:Q:327:ILE:CG2	1:Q:341:TRP:HE3	2.16	0.56
1:Q:376:PRO:HG2	1:Q:470:HIS:CD2	2.40	0.56
1:Q:422:ILE:HG23	1:Q:423:PRO:HD3	1.86	0.56
1:Q:557:LYS:HE3	1:Q:558:TYR:H	1.70	0.56
1:S:44:GLU:O	1:S:48:ILE:HG13	2.06	0.56
1:S:410:LEU:CD1	1:S:411:VAL:H	2.06	0.56
1:S:539:VAL:O	1:S:542:ILE:HG13	2.05	0.56
1:S:970:UNK:O	1:S:971:UNK:C	2.52	0.56
2:T:57:GLY:H	2:T:59:PRO:CD	2.17	0.56
1:U:91:PRO:O	1:U:94:THR:HB	2.06	0.56
2:V:64:GLU:O	2:V:65:LYS:C	2.44	0.56
1:W:26:ASN:HA	2:X:81:GLN:HG3	1.86	0.56
1:W:162:LEU:HG	1:W:180:TRP:CH2	2.41	0.56
1:W:488:ARG:HD3	1:W:491:PHE:HB2	1.88	0.56
1:Y:242:LEU:HD21	1:Y:244:LEU:HD13	1.85	0.56
1:Y:352:ILE:CD1	1:Y:352:ILE:H	2.18	0.56
1:Y:376:PRO:HG2	1:Y:470:HIS:CD2	2.40	0.56
1:c:44:GLU:O	1:c:47:HIS:HB3	2.05	0.56
1:c:327:ILE:CG2	1:c:341:TRP:HE3	2.16	0.56
1:c:466:TYR:C	1:c:466:TYR:CD1	2.83	0.56
1:e:86:LYS:HE3	1:e:89:MET:HE1	1.85	0.56
1:e:353:ILE:HG21	1:e:426:TYR:HB3	1.80	0.56
1:A:44:GLU:O	1:A:47:HIS:HB3	2.05	0.56
1:A:353:ILE:HD12	1:A:425:ILE:HG13	1.87	0.56
1:A:488:ARG:HD2	1:A:494:PHE:HB2	1.87	0.56
2:B:10:MET:HB3	2:B:84:PRO:HA	1.88	0.56
1:C:65:LEU:HD22	1:C:76:PHE:CE2	2.40	0.56
1:C:162:LEU:HG	1:C:180:TRP:CH2	2.41	0.56
1:C:410:LEU:N	1:C:426:TYR:CE1	2.73	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:449:ILE:HG23	1:C:450:PRO:CD	2.36	0.56
1:C:488:ARG:HD3	1:C:491:PHE:HB2	1.88	0.56
1:C:536:GLU:HA	1:C:539:VAL:HG13	1.87	0.56
1:E:39:ILE:HD11	1:E:76:PHE:CB	2.34	0.56
1:E:353:ILE:HD12	1:E:425:ILE:HG13	1.87	0.56
1:E:374:VAL:HG21	1:E:375:PHE:CZ	2.41	0.56
1:E:376:PRO:HG2	1:E:470:HIS:CD2	2.40	0.56
2:F:64:GLU:O	2:F:65:LYS:C	2.44	0.56
1:G:39:ILE:HD11	1:G:76:PHE:CB	2.34	0.56
1:G:44:GLU:O	1:G:48:ILE:HG13	2.06	0.56
1:G:125:VAL:HB	3:G:2000:ADP:N1	2.20	0.56
1:G:415:PRO:O	1:G:418:SER:HA	2.05	0.56
1:G:518:LEU:CD2	1:G:646:UNK:C	2.52	0.56
1:G:539:VAL:O	1:G:542:ILE:HG13	2.05	0.56
1:G:696:UNK:C	2:H:60:PHE:CZ	2.89	0.56
1:I:192:VAL:CB	1:I:221:ILE:HD12	2.21	0.56
1:K:162:LEU:HG	1:K:180:TRP:CH2	2.41	0.56
1:K:235:LYS:HE2	1:K:238:GLU:CG	2.28	0.56
1:K:242:LEU:HD23	1:K:262:ILE:CG2	2.35	0.56
1:K:673:UNK:HA	1:K:682:UNK:O	2.06	0.56
1:K:970:UNK:O	1:K:971:UNK:C	2.52	0.56
1:M:44:GLU:O	1:M:47:HIS:HB3	2.05	0.56
1:M:87:PHE:CE2	2:N:83:GLY:HA3	2.33	0.56
1:M:235:LYS:HE2	1:M:238:GLU:CG	2.28	0.56
1:M:342:LYS:CG	1:M:343:HIS:N	2.69	0.56
1:M:466:TYR:C	1:M:466:TYR:CD1	2.83	0.56
1:O:154:GLY:HA3	1:O:322:ARG:HB2	1.87	0.56
1:O:162:LEU:HG	1:O:180:TRP:CH2	2.41	0.56
1:O:243:VAL:CG1	1:O:263:LEU:CG	2.73	0.56
1:O:488:ARG:HD3	1:O:491:PHE:HB2	1.88	0.56
1:O:902:UNK:C	1:O:904:UNK:N	2.69	0.56
1:Q:488:ARG:HD2	1:Q:494:PHE:HB2	1.87	0.56
1:S:30:LYS:HB3	2:T:51:ASN:ND2	2.21	0.56
1:S:39:ILE:HD11	1:S:76:PHE:CB	2.34	0.56
1:S:488:ARG:HA	1:S:491:PHE:H	1.69	0.56
1:S:696:UNK:C	2:T:60:PHE:CZ	2.89	0.56
1:U:39:ILE:HD11	1:U:76:PHE:CB	2.34	0.56
1:U:138:LEU:HD21	1:U:170:VAL:HG11	1.78	0.56
1:U:234:SER:OG	1:U:236:PRO:HD2	2.05	0.56
1:U:374:VAL:HG21	1:U:375:PHE:CZ	2.41	0.56
1:U:449:ILE:HG23	1:U:450:PRO:CD	2.36	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:W:263:LEU:HG	1:W:263:LEU:O	2.04	0.56
1:W:368:MET:O	1:W:369:PHE:C	2.48	0.56
1:W:536:GLU:HA	1:W:539:VAL:HG13	1.87	0.56
1:Y:151:GLY:HA2	1:Y:286:ASP:CG	2.30	0.56
1:Y:415:PRO:O	1:Y:418:SER:HA	2.05	0.56
1:a:342:LYS:CG	1:a:343:HIS:N	2.69	0.56
1:a:902:UNK:C	1:a:904:UNK:N	2.69	0.56
1:c:235:LYS:HE2	1:c:238:GLU:CG	2.28	0.56
1:c:342:LYS:CG	1:c:343:HIS:N	2.69	0.56
1:c:410:LEU:N	1:c:426:TYR:CE1	2.73	0.56
1:e:120:PHE:HE1	1:e:124:ASN:CB	2.04	0.56
2:f:10:MET:HB3	2:f:84:PRO:HA	1.88	0.56
1:A:525:LYS:O	1:A:528:ILE:HD12	2.06	0.56
1:A:673:UNK:HA	1:A:682:UNK:O	2.06	0.56
1:C:15:ILE:HD12	1:C:96:GLN:HA	1.86	0.56
1:C:374:VAL:HG21	1:C:375:PHE:CZ	2.41	0.56
1:C:423:PRO:O	1:C:427:LEU:CB	2.54	0.56
1:C:525:LYS:O	1:C:528:ILE:HD12	2.06	0.56
1:E:125:VAL:HB	3:E:2000:ADP:N1	2.20	0.56
1:E:375:PHE:CD1	1:E:375:PHE:N	2.73	0.56
1:E:422:ILE:HG23	1:E:423:PRO:HD3	1.86	0.56
1:E:449:ILE:HG23	1:E:450:PRO:CD	2.36	0.56
1:G:30:LYS:HB3	2:H:51:ASN:ND2	2.21	0.56
1:G:198:LYS:O	1:G:201:TYR:HB2	2.06	0.56
1:G:317:LEU:O	1:G:318:THR:OG1	2.20	0.56
1:G:342:LYS:CG	1:G:343:HIS:N	2.69	0.56
1:G:475:LEU:HA	1:G:478:ILE:HG12	1.87	0.56
1:G:491:PHE:CA	1:G:576:GLU:HG2	2.36	0.56
1:G:990:UNK:O	1:G:991:UNK:C	2.52	0.56
2:H:57:GLY:H	2:H:59:PRO:CD	2.17	0.56
1:I:388:LEU:HD23	1:I:388:LEU:H	1.68	0.56
1:I:488:ARG:HD3	1:I:491:PHE:HB2	1.88	0.56
1:I:525:LYS:O	1:I:528:ILE:HD12	2.06	0.56
2:J:10:MET:HB3	2:J:84:PRO:HA	1.88	0.56
1:K:44:GLU:O	1:K:47:HIS:HB3	2.05	0.56
1:K:415:PRO:O	1:K:418:SER:HA	2.05	0.56
2:L:77:LEU:HA	2:L:80:THR:HG21	1.88	0.56
1:M:327:ILE:CG2	1:M:341:TRP:HE3	2.16	0.56
1:M:410:LEU:N	1:M:426:TYR:CE1	2.73	0.56
1:M:411:VAL:N	1:M:422:ILE:HG23	2.18	0.56
1:O:217:ILE:HG12	1:O:217:ILE:O	2.06	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Q:39:ILE:HD11	1:Q:76:PHE:CB	2.34	0.56
1:Q:154:GLY:HA3	1:Q:322:ARG:HB2	1.87	0.56
1:Q:242:LEU:HD21	1:Q:244:LEU:HD13	1.85	0.56
1:Q:415:PRO:O	1:Q:418:SER:HA	2.05	0.56
1:Q:488:ARG:CB	1:Q:494:PHE:HB2	2.36	0.56
1:Q:696:UNK:C	2:R:60:PHE:CZ	2.89	0.56
1:S:91:PRO:O	1:S:94:THR:HB	2.06	0.56
1:S:198:LYS:O	1:S:201:TYR:HB2	2.06	0.56
1:S:342:LYS:CG	1:S:343:HIS:N	2.69	0.56
1:S:353:ILE:HD12	1:S:425:ILE:HG13	1.87	0.56
1:U:352:ILE:CD1	1:U:352:ILE:H	2.18	0.56
1:U:353:ILE:HD12	1:U:425:ILE:HG13	1.87	0.56
1:U:422:ILE:HG23	1:U:423:PRO:HD3	1.86	0.56
1:U:990:UNK:O	1:U:991:UNK:C	2.52	0.56
1:W:125:VAL:HB	3:W:2000:ADP:N1	2.20	0.56
1:W:374:VAL:HG21	1:W:375:PHE:CZ	2.41	0.56
1:W:410:LEU:N	1:W:426:TYR:CE1	2.73	0.56
1:W:423:PRO:O	1:W:427:LEU:CB	2.54	0.56
1:W:449:ILE:HG23	1:W:450:PRO:CD	2.36	0.56
1:W:525:LYS:O	1:W:528:ILE:HD12	2.06	0.56
1:Y:154:GLY:HA3	1:Y:322:ARG:HB2	1.87	0.56
1:Y:422:ILE:HG23	1:Y:423:PRO:HD3	1.86	0.56
1:Y:488:ARG:HD2	1:Y:494:PHE:HB2	1.87	0.56
1:Y:557:LYS:HE3	1:Y:558:TYR:H	1.70	0.56
1:Y:696:UNK:C	2:Z:60:PHE:CZ	2.89	0.56
1:a:97:ARG:O	1:a:98:GLN:HG2	2.05	0.56
1:a:154:GLY:HA3	1:a:322:ARG:HB2	1.87	0.56
1:a:162:LEU:HG	1:a:180:TRP:CH2	2.41	0.56
1:a:217:ILE:O	1:a:217:ILE:HG12	2.06	0.56
1:a:376:PRO:HG2	1:a:470:HIS:CD2	2.40	0.56
1:a:536:GLU:HA	1:a:539:VAL:HG13	1.87	0.56
1:c:44:GLU:O	1:c:48:ILE:HG13	2.06	0.56
1:c:162:LEU:HG	1:c:180:TRP:CH2	2.41	0.56
1:c:415:PRO:O	1:c:418:SER:HA	2.05	0.56
1:c:534:LYS:O	1:c:537:ARG:HG2	2.05	0.56
1:c:882:UNK:CA	1:c:883:UNK:N	2.62	0.56
1:e:138:LEU:HD21	1:e:170:VAL:HG11	1.78	0.56
1:e:162:LEU:HG	1:e:180:TRP:CH2	2.41	0.56
1:e:242:LEU:HD23	1:e:262:ILE:CG2	2.35	0.56
1:e:475:LEU:HA	1:e:478:ILE:HG12	1.87	0.56
1:e:673:UNK:HA	1:e:682:UNK:O	2.06	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:235:LYS:HE3	1:A:235:LYS:HA	1.87	0.56
1:A:352:ILE:CD1	1:A:352:ILE:H	2.18	0.56
1:A:420:ILE:HG22	1:A:422:ILE:HD13	1.87	0.56
2:B:23:ASN:O	2:B:26:VAL:HG12	2.06	0.56
1:C:12:TYR:CE2	1:C:92:ILE:HG22	2.41	0.56
1:C:26:ASN:HA	2:D:81:GLN:HG3	1.86	0.56
1:C:91:PRO:O	1:C:94:THR:HB	2.06	0.56
1:C:263:LEU:HG	1:C:263:LEU:O	2.04	0.56
1:E:342:LYS:CG	1:E:343:HIS:N	2.69	0.56
1:E:475:LEU:HA	1:E:478:ILE:HG12	1.87	0.56
1:G:91:PRO:O	1:G:94:THR:HB	2.06	0.56
1:G:353:ILE:HD12	1:G:425:ILE:HG13	1.87	0.56
1:I:12:TYR:CE2	1:I:92:ILE:HG22	2.41	0.56
1:I:235:LYS:HE3	1:I:235:LYS:HA	1.87	0.56
1:I:673:UNK:HA	1:I:682:UNK:O	2.06	0.56
1:I:990:UNK:O	1:I:991:UNK:C	2.52	0.56
2:J:23:ASN:O	2:J:26:VAL:HG12	2.06	0.56
1:K:86:LYS:HE3	1:K:89:MET:HE1	1.85	0.56
2:L:23:ASN:O	2:L:26:VAL:HG12	2.06	0.56
1:M:44:GLU:O	1:M:48:ILE:HG13	2.06	0.56
1:M:91:PRO:O	1:M:94:THR:HB	2.06	0.56
1:M:97:ARG:O	1:M:98:GLN:HG2	2.05	0.56
1:M:162:LEU:HG	1:M:180:TRP:CH2	2.41	0.56
1:M:288:HIS:CD2	1:M:288:HIS:N	2.73	0.56
1:M:357:LEU:HD12	1:M:430:LYS:HZ3	1.61	0.56
1:M:415:PRO:O	1:M:418:SER:HA	2.05	0.56
1:M:525:LYS:O	1:M:528:ILE:HD12	2.06	0.56
1:M:696:UNK:C	2:N:60:PHE:CZ	2.89	0.56
1:O:353:ILE:HG21	1:O:426:TYR:HB3	1.80	0.56
1:O:376:PRO:HG2	1:O:470:HIS:CD2	2.40	0.56
1:Q:902:UNK:C	1:Q:904:UNK:N	2.69	0.56
1:S:97:ARG:O	1:S:98:GLN:HG2	2.05	0.56
1:S:125:VAL:HB	3:S:2000:ADP:N1	2.20	0.56
1:S:475:LEU:HA	1:S:478:ILE:HG12	1.87	0.56
1:S:491:PHE:CA	1:S:576:GLU:HG2	2.36	0.56
1:U:125:VAL:HB	3:U:2000:ADP:N1	2.20	0.56
1:U:162:LEU:HG	1:U:180:TRP:CH2	2.41	0.56
1:U:375:PHE:CD1	1:U:375:PHE:N	2.73	0.56
1:U:376:PRO:HG2	1:U:470:HIS:CD2	2.40	0.56
1:U:410:LEU:HA	1:U:423:PRO:HG3	1.84	0.56
1:U:475:LEU:HA	1:U:478:ILE:HG12	1.87	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:W:12:TYR:CE2	1:W:92:ILE:HG22	2.41	0.56
1:W:154:GLY:HA3	1:W:322:ARG:HB2	1.87	0.56
1:W:192:VAL:HG11	1:W:221:ILE:HD11	1.88	0.56
1:W:342:LYS:CG	1:W:343:HIS:N	2.69	0.56
1:W:353:ILE:HG21	1:W:426:TYR:CA	2.36	0.56
1:Y:488:ARG:CB	1:Y:494:PHE:HB2	2.36	0.56
1:Y:489:MET:CB	1:Y:539:VAL:HB	2.31	0.56
1:Y:902:UNK:C	1:Y:904:UNK:N	2.69	0.56
1:a:415:PRO:O	1:a:418:SER:HA	2.05	0.56
1:a:488:ARG:HD3	1:a:491:PHE:HB2	1.88	0.56
1:a:525:LYS:O	1:a:528:ILE:HD12	2.06	0.56
1:a:673:UNK:HA	1:a:682:UNK:O	2.06	0.56
1:c:91:PRO:O	1:c:94:THR:HB	2.06	0.56
1:c:138:LEU:HD21	1:c:170:VAL:CG1	2.31	0.56
1:c:288:HIS:CD2	1:c:288:HIS:N	2.73	0.56
1:c:411:VAL:N	1:c:422:ILE:HG23	2.18	0.56
1:e:234:SER:OG	1:e:236:PRO:HD2	2.05	0.56
1:e:491:PHE:CA	1:e:576:GLU:HG2	2.36	0.56
1:e:970:UNK:O	1:e:971:UNK:C	2.52	0.56
2:f:23:ASN:O	2:f:26:VAL:HG12	2.06	0.56
2:f:77:LEU:HA	2:f:80:THR:HG21	1.88	0.56
1:A:12:TYR:CE2	1:A:92:ILE:HG22	2.41	0.55
1:A:151:GLY:HA2	1:A:286:ASP:CG	2.30	0.55
1:A:342:LYS:HG3	1:A:343:HIS:H	1.71	0.55
1:A:342:LYS:CG	1:A:343:HIS:N	2.69	0.55
1:A:488:ARG:HD3	1:A:491:PHE:HB2	1.88	0.55
2:B:57:GLY:H	2:B:59:PRO:CD	2.17	0.55
1:C:104:ARG:HA	1:C:107:ILE:HG21	1.84	0.55
1:C:125:VAL:HB	3:C:2000:ADP:N1	2.20	0.55
1:C:154:GLY:HA3	1:C:322:ARG:HB2	1.87	0.55
1:C:342:LYS:CG	1:C:343:HIS:N	2.69	0.55
1:C:353:ILE:HG21	1:C:426:TYR:CA	2.36	0.55
1:E:162:LEU:HG	1:E:180:TRP:CH2	2.41	0.55
1:E:203:ILE:CG2	1:E:237:TYR:HH	2.05	0.55
1:E:357:LEU:HD12	1:E:366:ARG:NE	2.20	0.55
1:E:410:LEU:HA	1:E:423:PRO:HG3	1.84	0.55
1:G:288:HIS:CD2	1:G:288:HIS:N	2.73	0.55
1:G:352:ILE:CD1	1:G:352:ILE:H	2.18	0.55
2:H:10:MET:HB3	2:H:84:PRO:HA	1.88	0.55
1:I:217:ILE:O	1:I:217:ILE:HG12	2.06	0.55
1:I:252:ALA:O	1:I:255:ALA:CB	2.51	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:342:LYS:HG3	1:I:343:HIS:H	1.71	0.55
1:I:342:LYS:CG	1:I:343:HIS:N	2.69	0.55
1:I:352:ILE:CD1	1:I:352:ILE:H	2.18	0.55
1:I:696:UNK:C	2:J:60:PHE:CZ	2.89	0.55
1:K:234:SER:OG	1:K:236:PRO:HD2	2.05	0.55
1:K:449:ILE:HG23	1:K:450:PRO:CD	2.36	0.55
1:K:475:LEU:HA	1:K:478:ILE:HG12	1.87	0.55
1:K:491:PHE:CA	1:K:576:GLU:HG2	2.36	0.55
1:O:138:LEU:O	1:O:141:LEU:HB3	2.05	0.55
1:O:138:LEU:HD21	1:O:170:VAL:HG11	1.78	0.55
1:O:415:PRO:O	1:O:418:SER:HA	2.05	0.55
1:O:525:LYS:O	1:O:528:ILE:HD12	2.06	0.55
1:O:673:UNK:HA	1:O:682:UNK:O	2.06	0.55
1:Q:91:PRO:O	1:Q:94:THR:HB	2.06	0.55
1:Q:342:LYS:CG	1:Q:343:HIS:N	2.69	0.55
1:S:288:HIS:CD2	1:S:288:HIS:N	2.73	0.55
1:S:352:ILE:CD1	1:S:352:ILE:H	2.18	0.55
1:S:990:UNK:O	1:S:991:UNK:C	2.52	0.55
1:U:203:ILE:CG2	1:U:237:TYR:HH	2.05	0.55
1:U:342:LYS:CG	1:U:343:HIS:N	2.69	0.55
1:W:15:ILE:HD12	1:W:96:GLN:HA	1.86	0.55
1:W:91:PRO:O	1:W:94:THR:HB	2.06	0.55
1:W:518:LEU:HD21	1:W:646:UNK:HA	1.86	0.55
1:Y:39:ILE:HD11	1:Y:76:PHE:CB	2.34	0.55
2:Z:77:LEU:HA	2:Z:80:THR:HG21	1.88	0.55
1:a:44:GLU:O	1:a:48:ILE:HG13	2.06	0.55
1:a:138:LEU:O	1:a:141:LEU:HB3	2.05	0.55
1:c:369:PHE:CE1	1:c:411:VAL:HG22	2.42	0.55
1:c:525:LYS:O	1:c:528:ILE:HD12	2.06	0.55
1:c:696:UNK:C	2:d:60:PHE:CZ	2.89	0.55
1:e:44:GLU:O	1:e:47:HIS:HB3	2.05	0.55
1:e:410:LEU:CG	1:e:423:PRO:CD	2.47	0.55
1:e:415:PRO:O	1:e:418:SER:HA	2.05	0.55
1:A:162:LEU:HG	1:A:180:TRP:CH2	2.41	0.55
1:A:198:LYS:O	1:A:201:TYR:HB2	2.06	0.55
1:A:217:ILE:HG12	1:A:217:ILE:O	2.06	0.55
1:A:369:PHE:CE1	1:A:411:VAL:HG22	2.42	0.55
1:A:449:ILE:HG23	1:A:450:PRO:CD	2.36	0.55
1:A:534:LYS:O	1:A:537:ARG:HG2	2.05	0.55
1:A:696:UNK:C	2:B:60:PHE:CZ	2.89	0.55
1:A:990:UNK:O	1:A:991:UNK:C	2.52	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:192:VAL:HG11	1:C:221:ILE:HD11	1.88	0.55
1:C:242:LEU:HD23	1:C:262:ILE:CG2	2.35	0.55
1:C:673:UNK:HA	1:C:682:UNK:O	2.06	0.55
1:E:154:GLY:HA3	1:E:322:ARG:HB2	1.87	0.55
1:E:525:LYS:O	1:E:528:ILE:HD12	2.06	0.55
1:G:42:LYS:O	1:G:45:ILE:HG22	2.07	0.55
1:G:97:ARG:O	1:G:98:GLN:HG2	2.05	0.55
1:G:217:ILE:HG12	1:G:217:ILE:O	2.06	0.55
1:G:423:PRO:O	1:G:427:LEU:CB	2.54	0.55
1:I:151:GLY:HA2	1:I:286:ASP:CG	2.30	0.55
1:I:198:LYS:O	1:I:201:TYR:HB2	2.06	0.55
1:I:369:PHE:CE1	1:I:411:VAL:HG22	2.42	0.55
1:I:420:ILE:HG22	1:I:422:ILE:HD13	1.87	0.55
1:I:475:LEU:HA	1:I:478:ILE:HG12	1.87	0.55
1:I:534:LYS:O	1:I:537:ARG:HG2	2.05	0.55
1:K:12:TYR:CE2	1:K:92:ILE:HG22	2.41	0.55
1:K:178:ILE:HG23	1:K:241:LEU:CD2	2.27	0.55
1:K:179:PHE:CD1	1:K:179:PHE:N	2.72	0.55
1:K:342:LYS:CG	1:K:343:HIS:N	2.69	0.55
1:K:352:ILE:CD1	1:K:352:ILE:H	2.18	0.55
1:K:353:ILE:HG21	1:K:426:TYR:HB3	1.80	0.55
1:M:15:ILE:CD1	1:M:96:GLN:N	2.69	0.55
1:M:353:ILE:HG21	1:M:426:TYR:CA	2.36	0.55
1:M:369:PHE:CE1	1:M:411:VAL:HG22	2.42	0.55
1:O:357:LEU:HD12	1:O:366:ARG:NE	2.20	0.55
1:Q:374:VAL:HG21	1:Q:375:PHE:CZ	2.41	0.55
1:Q:423:PRO:O	1:Q:427:LEU:CB	2.54	0.55
2:R:77:LEU:HA	2:R:80:THR:HG21	1.88	0.55
1:S:42:LYS:O	1:S:45:ILE:HG22	2.07	0.55
1:S:229:ARG:HG2	1:S:229:ARG:NH2	2.13	0.55
2:T:10:MET:HB3	2:T:84:PRO:HA	1.88	0.55
1:W:557:LYS:HE3	1:W:558:TYR:H	1.70	0.55
1:Y:91:PRO:O	1:Y:94:THR:HB	2.06	0.55
1:Y:342:LYS:CG	1:Y:343:HIS:N	2.69	0.55
1:Y:353:ILE:HG21	1:Y:426:TYR:CA	2.36	0.55
1:Y:374:VAL:HG21	1:Y:375:PHE:CZ	2.41	0.55
1:a:696:UNK:C	2:b:60:PHE:CZ	2.89	0.55
1:c:97:ARG:O	1:c:98:GLN:HG2	2.05	0.55
1:e:15:ILE:CD1	1:e:96:GLN:N	2.69	0.55
1:e:352:ILE:CD1	1:e:352:ILE:H	2.18	0.55
1:e:449:ILE:HG23	1:e:450:PRO:CD	2.36	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:e:696:UNK:C	2:f:60:PHE:CZ	2.89	0.55
1:A:475:LEU:HA	1:A:478:ILE:HG12	1.87	0.55
1:A:536:GLU:HA	1:A:539:VAL:HG13	1.88	0.55
1:C:42:LYS:O	1:C:45:ILE:HG22	2.07	0.55
1:C:257:ASN:ND2	1:C:257:ASN:H	2.05	0.55
1:C:353:ILE:HG23	1:C:426:TYR:HD2	1.72	0.55
1:E:12:TYR:CE2	1:E:92:ILE:HG22	2.41	0.55
1:E:138:LEU:HD21	1:E:170:VAL:HG11	1.78	0.55
1:E:342:LYS:HG3	1:E:343:HIS:H	1.71	0.55
1:G:369:PHE:CE1	1:G:411:VAL:HG22	2.42	0.55
1:G:536:GLU:HA	1:G:539:VAL:HG13	1.87	0.55
1:I:449:ILE:HG23	1:I:450:PRO:CD	2.36	0.55
1:I:536:GLU:HA	1:I:539:VAL:HG13	1.88	0.55
2:J:57:GLY:H	2:J:59:PRO:CD	2.17	0.55
1:K:15:ILE:CD1	1:K:96:GLN:N	2.69	0.55
1:K:353:ILE:HG21	1:K:426:TYR:CA	2.36	0.55
1:K:369:PHE:CE1	1:K:411:VAL:HG22	2.42	0.55
1:K:696:UNK:C	2:L:60:PHE:CZ	2.89	0.55
1:M:539:VAL:O	1:M:542:ILE:HG13	2.05	0.55
1:O:44:GLU:O	1:O:48:ILE:HG13	2.06	0.55
1:O:696:UNK:C	2:P:60:PHE:CZ	2.89	0.55
1:Q:44:GLU:O	1:Q:48:ILE:HG13	2.06	0.55
1:Q:353:ILE:HG21	1:Q:426:TYR:CA	2.36	0.55
1:Q:489:MET:CB	1:Q:539:VAL:HB	2.31	0.55
2:R:10:MET:HB3	2:R:84:PRO:HA	1.88	0.55
1:S:217:ILE:HG12	1:S:217:ILE:O	2.06	0.55
1:S:345:ASN:O	1:S:347:ASP:N	2.37	0.55
1:S:423:PRO:O	1:S:427:LEU:CB	2.54	0.55
1:U:12:TYR:CE2	1:U:92:ILE:HG22	2.41	0.55
1:U:154:GLY:HA3	1:U:322:ARG:HB2	1.87	0.55
1:W:42:LYS:O	1:W:45:ILE:HG22	2.07	0.55
1:W:242:LEU:HD21	1:W:244:LEU:HD13	1.85	0.55
1:W:353:ILE:HG23	1:W:426:TYR:HD2	1.72	0.55
1:W:488:ARG:CB	1:W:494:PHE:HB2	2.36	0.55
1:Y:44:GLU:O	1:Y:48:ILE:HG13	2.06	0.55
1:Y:423:PRO:O	1:Y:427:LEU:CB	2.54	0.55
2:Z:10:MET:HB3	2:Z:84:PRO:HA	1.88	0.55
1:a:247:VAL:CG2	1:a:264:LEU:HD13	2.33	0.55
1:a:357:LEU:HD12	1:a:366:ARG:NE	2.20	0.55
1:c:15:ILE:CD1	1:c:96:GLN:N	2.69	0.55
1:c:192:VAL:HG11	1:c:221:ILE:HD11	1.88	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:c:353:ILE:HG21	1:c:426:TYR:CA	2.36	0.55
1:c:539:VAL:O	1:c:542:ILE:HG13	2.05	0.55
1:e:12:TYR:CE2	1:e:92:ILE:HG22	2.41	0.55
1:e:178:ILE:HG23	1:e:241:LEU:CD2	2.27	0.55
1:e:179:PHE:N	1:e:179:PHE:CD1	2.72	0.55
1:e:342:LYS:CG	1:e:343:HIS:N	2.69	0.55
1:e:369:PHE:CE1	1:e:411:VAL:HG22	2.42	0.55
1:e:539:VAL:O	1:e:542:ILE:HG13	2.05	0.55
1:A:252:ALA:O	1:A:255:ALA:CB	2.51	0.55
1:A:301:LEU:O	1:A:305:LEU:HB2	2.07	0.55
1:C:148:LEU:C	1:C:149:ILE:HG13	2.29	0.55
1:C:198:LYS:O	1:C:201:TYR:HB2	2.06	0.55
1:C:488:ARG:CB	1:C:494:PHE:HB2	2.36	0.55
1:C:518:LEU:HD21	1:C:646:UNK:HA	1.86	0.55
1:C:557:LYS:HE3	1:C:558:TYR:H	1.70	0.55
1:E:242:LEU:HD23	1:E:262:ILE:CG2	2.35	0.55
1:E:353:ILE:HG21	1:E:426:TYR:CA	2.36	0.55
1:G:229:ARG:HG2	1:G:229:ARG:NH2	2.13	0.55
1:G:345:ASN:O	1:G:347:ASP:N	2.37	0.55
1:I:162:LEU:HG	1:I:180:TRP:CH2	2.41	0.55
1:I:301:LEU:O	1:I:305:LEU:HB2	2.07	0.55
1:I:460:PRO:HG2	1:I:462:TYR:CZ	2.37	0.55
1:K:138:LEU:HD21	1:K:170:VAL:HG11	1.78	0.55
1:K:301:LEU:O	1:K:305:LEU:HB2	2.07	0.55
1:K:539:VAL:O	1:K:542:ILE:HG13	2.05	0.55
1:M:138:LEU:HD21	1:M:170:VAL:CG1	2.31	0.55
1:M:257:ASN:ND2	1:M:257:ASN:H	2.05	0.55
1:M:353:ILE:HG23	1:M:426:TYR:HD2	1.72	0.55
1:M:368:MET:O	1:M:369:PHE:C	2.48	0.55
1:O:91:PRO:O	1:O:94:THR:HB	2.06	0.55
1:O:353:ILE:HG21	1:O:426:TYR:CA	2.36	0.55
1:O:475:LEU:HA	1:O:478:ILE:HG12	1.87	0.55
1:O:488:ARG:CB	1:O:494:PHE:HB2	2.36	0.55
1:Q:409:SER:OG	1:Q:410:LEU:N	2.38	0.55
2:R:23:ASN:O	2:R:26:VAL:HG12	2.06	0.55
1:S:369:PHE:CE1	1:S:411:VAL:HG22	2.42	0.55
1:S:374:VAL:HG21	1:S:375:PHE:CZ	2.41	0.55
1:S:518:LEU:CD2	1:S:646:UNK:C	2.52	0.55
1:S:536:GLU:HA	1:S:539:VAL:HG13	1.87	0.55
1:U:242:LEU:HD23	1:U:262:ILE:CG2	2.35	0.55
1:U:342:LYS:HG3	1:U:343:HIS:H	1.71	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:U:353:ILE:HG21	1:U:426:TYR:CA	2.36	0.55
1:U:357:LEU:HD12	1:U:366:ARG:NE	2.20	0.55
1:U:525:LYS:O	1:U:528:ILE:HD12	2.06	0.55
1:W:104:ARG:HA	1:W:107:ILE:HG21	1.84	0.55
1:W:148:LEU:C	1:W:149:ILE:HG13	2.29	0.55
1:W:242:LEU:HD23	1:W:262:ILE:CG2	2.35	0.55
1:W:673:UNK:HA	1:W:682:UNK:O	2.06	0.55
1:Y:409:SER:OG	1:Y:410:LEU:N	2.38	0.55
1:Y:449:ILE:HG23	1:Y:450:PRO:CD	2.36	0.55
1:Y:488:ARG:HD3	1:Y:491:PHE:HB2	1.88	0.55
2:Z:23:ASN:O	2:Z:26:VAL:HG12	2.06	0.55
1:a:488:ARG:CB	1:a:494:PHE:HB2	2.36	0.55
1:c:257:ASN:ND2	1:c:257:ASN:H	2.05	0.55
1:c:353:ILE:HG23	1:c:426:TYR:HD2	1.72	0.55
1:e:301:LEU:O	1:e:305:LEU:HB2	2.07	0.55
1:e:353:ILE:HG21	1:e:426:TYR:CA	2.36	0.55
1:e:488:ARG:HD3	1:e:491:PHE:HB2	1.88	0.55
1:e:557:LYS:HE3	1:e:558:TYR:H	1.70	0.55
1:A:247:VAL:O	1:A:266:THR:HG21	2.06	0.55
1:A:488:ARG:CB	1:A:494:PHE:HB2	2.36	0.55
1:A:518:LEU:HD21	1:A:646:UNK:HA	1.86	0.55
1:G:12:TYR:CE2	1:G:92:ILE:HG22	2.41	0.55
1:G:374:VAL:HG21	1:G:375:PHE:CZ	2.41	0.55
1:G:410:LEU:HA	1:G:423:PRO:HG3	1.84	0.55
1:I:488:ARG:CB	1:I:494:PHE:HB2	2.36	0.55
1:M:192:VAL:HG11	1:M:221:ILE:HD11	1.88	0.55
1:M:342:LYS:HG3	1:M:343:HIS:H	1.71	0.55
1:O:371:ARG:HG3	1:O:389:ILE:CD1	2.30	0.55
1:O:410:LEU:N	1:O:426:TYR:CE1	2.73	0.55
1:O:462:TYR:CE2	1:O:494:PHE:HE1	2.25	0.55
1:Q:12:TYR:CE2	1:Q:92:ILE:HG22	2.41	0.55
1:Q:252:ALA:O	1:Q:255:ALA:CB	2.51	0.55
1:Q:449:ILE:HG23	1:Q:450:PRO:CD	2.36	0.55
1:U:365:TYR:CD1	1:U:405:LEU:HD22	2.23	0.55
1:W:198:LYS:O	1:W:201:TYR:HB2	2.06	0.55
1:W:257:ASN:ND2	1:W:257:ASN:H	2.05	0.55
2:X:10:MET:HB3	2:X:84:PRO:HA	1.88	0.55
1:a:91:PRO:O	1:a:94:THR:HB	2.06	0.55
1:a:353:ILE:HG21	1:a:426:TYR:CA	2.36	0.55
1:a:410:LEU:N	1:a:426:TYR:CE1	2.73	0.55
1:a:462:TYR:CE2	1:a:494:PHE:HE1	2.25	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:a:475:LEU:HA	1:a:478:ILE:HG12	1.87	0.55
1:c:368:MET:O	1:c:369:PHE:C	2.48	0.55
1:c:488:ARG:CG	1:c:488:ARG:NH1	2.65	0.55
1:e:91:PRO:O	1:e:94:THR:HB	2.06	0.55
1:C:696:UNK:C	2:D:60:PHE:CZ	2.89	0.55
2:D:10:MET:HB3	2:D:84:PRO:HA	1.88	0.55
1:G:15:ILE:CD1	1:G:96:GLN:N	2.69	0.55
1:G:232:LEU:C	1:G:234:SER:N	2.57	0.55
1:G:301:LEU:O	1:G:305:LEU:HB2	2.07	0.55
1:K:488:ARG:HD3	1:K:491:PHE:HB2	1.88	0.55
1:K:557:LYS:HE3	1:K:558:TYR:H	1.70	0.55
1:M:135:ARG:O	1:M:139:LEU:HG	2.07	0.55
1:M:409:SER:OG	1:M:410:LEU:N	2.38	0.55
1:M:488:ARG:CB	1:M:494:PHE:HB2	2.36	0.55
1:O:247:VAL:CG2	1:O:264:LEU:HD13	2.33	0.55
1:Q:257:ASN:ND2	1:Q:257:ASN:H	2.05	0.55
1:Q:342:LYS:HG3	1:Q:343:HIS:H	1.71	0.55
1:Q:488:ARG:HD3	1:Q:491:PHE:HB2	1.88	0.55
1:Q:673:UNK:HA	1:Q:682:UNK:O	2.06	0.55
1:S:12:TYR:CE2	1:S:92:ILE:HG22	2.41	0.55
1:S:15:ILE:CD1	1:S:96:GLN:N	2.69	0.55
1:S:82:ARG:HH11	1:S:82:ARG:CG	2.16	0.55
1:S:232:LEU:C	1:S:234:SER:N	2.57	0.55
1:S:301:LEU:O	1:S:305:LEU:HB2	2.07	0.55
1:S:410:LEU:HA	1:S:423:PRO:HG3	1.84	0.55
1:W:696:UNK:C	2:X:60:PHE:CZ	2.89	0.55
1:Y:12:TYR:CE2	1:Y:92:ILE:HG22	2.41	0.55
1:Y:257:ASN:ND2	1:Y:257:ASN:H	2.05	0.55
1:Y:673:UNK:HA	1:Y:682:UNK:O	2.06	0.55
1:a:369:PHE:CE1	1:a:411:VAL:HG22	2.42	0.55
1:c:135:ARG:O	1:c:139:LEU:HG	2.07	0.55
1:c:301:LEU:O	1:c:305:LEU:HB2	2.07	0.55
1:c:342:LYS:HG3	1:c:343:HIS:H	1.71	0.55
1:c:409:SER:OG	1:c:410:LEU:N	2.38	0.55
1:c:462:TYR:CE2	1:c:494:PHE:HE1	2.25	0.55
1:c:536:GLU:HA	1:c:539:VAL:HG13	1.88	0.55
1:e:198:LYS:O	1:e:201:TYR:HB2	2.06	0.55
1:A:135:ARG:O	1:A:139:LEU:HG	2.07	0.55
1:A:460:PRO:HG2	1:A:462:TYR:CZ	2.37	0.55
1:C:30:LYS:HB3	2:D:51:ASN:ND2	2.21	0.55
1:C:242:LEU:HD21	1:C:244:LEU:HD13	1.85	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:376:PRO:HG2	1:C:470:HIS:CD2	2.40	0.55
1:E:365:TYR:CD1	1:E:405:LEU:HD22	2.23	0.55
1:E:491:PHE:CA	1:E:576:GLU:HG2	2.36	0.55
2:H:77:LEU:HA	2:H:80:THR:HG21	1.88	0.55
1:I:247:VAL:O	1:I:266:THR:HG21	2.06	0.55
1:I:518:LEU:HD21	1:I:646:UNK:HA	1.86	0.55
1:K:42:LYS:O	1:K:45:ILE:HG22	2.07	0.55
1:K:91:PRO:O	1:K:94:THR:HB	2.06	0.55
1:K:198:LYS:O	1:K:201:TYR:HB2	2.06	0.55
1:K:536:GLU:HA	1:K:539:VAL:HG13	1.87	0.55
1:M:301:LEU:O	1:M:305:LEU:HB2	2.07	0.55
1:M:352:ILE:CD1	1:M:352:ILE:H	2.18	0.55
1:M:462:TYR:CE2	1:M:494:PHE:HE1	2.25	0.55
1:M:536:GLU:HA	1:M:539:VAL:HG13	1.88	0.55
1:O:257:ASN:ND2	1:O:257:ASN:H	2.05	0.55
1:O:369:PHE:CE1	1:O:411:VAL:HG22	2.42	0.55
1:Q:42:LYS:O	1:Q:45:ILE:HG22	2.07	0.55
1:Q:179:PHE:N	1:Q:179:PHE:CD1	2.72	0.55
1:Q:360:LEU:CD1	1:Q:365:TYR:CB	2.69	0.55
1:Q:525:LYS:O	1:Q:528:ILE:HD12	2.06	0.55
2:T:23:ASN:O	2:T:26:VAL:HG12	2.06	0.55
1:U:360:LEU:HD11	1:U:365:TYR:HB3	1.83	0.55
1:W:19:PHE:HZ	1:W:92:ILE:CG1	1.90	0.55
1:W:30:LYS:HB3	2:X:51:ASN:ND2	2.21	0.55
1:Y:179:PHE:N	1:Y:179:PHE:CD1	2.72	0.55
1:Y:252:ALA:O	1:Y:255:ALA:CB	2.51	0.55
1:Y:342:LYS:HG3	1:Y:343:HIS:H	1.71	0.55
1:Y:536:GLU:HA	1:Y:539:VAL:HG13	1.88	0.55
1:a:257:ASN:ND2	1:a:257:ASN:H	2.05	0.55
2:b:45:THR:H	2:b:48:MET:HB2	1.72	0.55
1:c:141:LEU:HD21	1:c:261:LYS:HB3	1.89	0.55
1:c:488:ARG:CB	1:c:494:PHE:HB2	2.36	0.55
1:e:217:ILE:O	1:e:217:ILE:HG12	2.06	0.55
1:e:536:GLU:HA	1:e:539:VAL:HG13	1.87	0.55
1:A:91:PRO:O	1:A:94:THR:HB	2.06	0.55
1:C:44:GLU:O	1:C:48:ILE:HG13	2.06	0.55
1:E:151:GLY:HA2	1:E:286:ASP:CG	2.30	0.55
1:G:488:ARG:CB	1:G:494:PHE:HB2	2.36	0.55
2:H:23:ASN:O	2:H:26:VAL:HG12	2.06	0.55
1:I:135:ARG:O	1:I:139:LEU:HG	2.07	0.55
1:I:345:ASN:O	1:I:346:CYS:C	2.47	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:141:LEU:HD21	1:K:261:LYS:HB3	1.89	0.55
1:K:304:TYR:CE2	1:K:325:SER:HB3	2.42	0.55
1:K:990:UNK:O	1:K:991:UNK:C	2.52	0.55
1:M:141:LEU:HD21	1:M:261:LYS:HB3	1.89	0.55
2:N:23:ASN:O	2:N:26:VAL:HG12	2.06	0.55
1:O:357:LEU:CG	1:O:430:LYS:HZ3	2.10	0.55
1:O:360:LEU:CG	1:O:365:TYR:CB	2.48	0.55
1:O:449:ILE:HG23	1:O:450:PRO:CD	2.36	0.55
1:O:457:ASP:HB3	1:O:583:ARG:HD3	1.89	0.55
2:P:10:MET:HB3	2:P:84:PRO:HA	1.88	0.55
2:P:45:THR:H	2:P:48:MET:HB2	1.72	0.55
1:Q:234:SER:HB3	1:Q:236:PRO:CD	2.25	0.55
1:Q:301:LEU:O	1:Q:305:LEU:HB2	2.07	0.55
1:Q:491:PHE:CA	1:Q:576:GLU:HG2	2.36	0.55
1:S:135:ARG:O	1:S:139:LEU:HG	2.07	0.55
1:S:368:MET:O	1:S:369:PHE:C	2.48	0.55
2:T:77:LEU:HA	2:T:80:THR:HG21	1.88	0.55
1:U:135:ARG:O	1:U:139:LEU:HG	2.07	0.55
1:U:151:GLY:HA2	1:U:286:ASP:CG	2.30	0.55
1:U:420:ILE:HG22	1:U:422:ILE:HD13	1.87	0.55
1:U:491:PHE:CA	1:U:576:GLU:HG2	2.36	0.55
2:V:10:MET:HB3	2:V:84:PRO:HA	1.88	0.55
1:W:15:ILE:CD1	1:W:96:GLN:N	2.69	0.55
1:W:135:ARG:O	1:W:139:LEU:HG	2.07	0.55
1:W:376:PRO:HG2	1:W:470:HIS:CD2	2.40	0.55
1:Y:42:LYS:O	1:Y:45:ILE:HG22	2.07	0.55
1:Y:234:SER:HB3	1:Y:236:PRO:CD	2.25	0.55
1:Y:301:LEU:O	1:Y:305:LEU:HB2	2.07	0.55
1:Y:369:PHE:CE1	1:Y:411:VAL:HG22	2.42	0.55
1:Y:491:PHE:CA	1:Y:576:GLU:HG2	2.36	0.55
1:a:449:ILE:HG23	1:a:450:PRO:CD	2.36	0.55
1:a:457:ASP:HB3	1:a:583:ARG:HD3	1.89	0.55
2:b:10:MET:HB3	2:b:84:PRO:HA	1.88	0.55
2:d:10:MET:HB3	2:d:84:PRO:HA	1.88	0.55
1:e:42:LYS:O	1:e:45:ILE:HG22	2.07	0.55
1:e:141:LEU:HD21	1:e:261:LYS:HB3	1.89	0.55
1:e:304:TYR:CE2	1:e:325:SER:HB3	2.42	0.55
1:e:374:VAL:HG21	1:e:375:PHE:CZ	2.41	0.55
1:C:15:ILE:CD1	1:C:96:GLN:N	2.69	0.55
1:C:39:ILE:HD11	1:C:76:PHE:CB	2.34	0.55
1:C:135:ARG:O	1:C:139:LEU:HG	2.07	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:304:TYR:CE2	1:C:325:SER:HB3	2.42	0.55
1:E:135:ARG:O	1:E:139:LEU:HG	2.07	0.55
1:E:360:LEU:HD11	1:E:365:TYR:HB3	1.83	0.55
1:E:420:ILE:HG22	1:E:422:ILE:HD13	1.87	0.55
2:F:10:MET:HB3	2:F:84:PRO:HA	1.88	0.55
1:G:82:ARG:HH11	1:G:82:ARG:CG	2.16	0.55
1:G:135:ARG:O	1:G:139:LEU:HG	2.07	0.55
1:G:231:LEU:HD23	1:G:237:TYR:HE2	1.68	0.55
1:G:368:MET:O	1:G:369:PHE:C	2.48	0.55
1:I:30:LYS:HB3	2:J:51:ASN:ND2	2.21	0.55
1:I:364:GLU:OE2	1:I:401:VAL:CG2	2.55	0.55
1:K:217:ILE:HG12	1:K:217:ILE:O	2.06	0.55
1:K:374:VAL:HG21	1:K:375:PHE:CZ	2.41	0.55
1:M:12:TYR:CE2	1:M:92:ILE:HG22	2.41	0.55
1:M:488:ARG:CG	1:M:488:ARG:NH1	2.65	0.55
2:N:10:MET:HB3	2:N:84:PRO:HA	1.88	0.55
2:N:45:THR:H	2:N:48:MET:HB2	1.72	0.55
1:O:65:LEU:CD1	1:O:73:VAL:HG22	2.37	0.55
2:P:23:ASN:O	2:P:26:VAL:HG12	2.06	0.55
1:Q:217:ILE:O	1:Q:217:ILE:HG12	2.06	0.55
1:Q:369:PHE:CE1	1:Q:411:VAL:HG22	2.42	0.55
1:Q:536:GLU:HA	1:Q:539:VAL:HG13	1.88	0.55
1:S:364:GLU:OE2	1:S:401:VAL:CG2	2.55	0.55
1:U:15:ILE:CD1	1:U:96:GLN:N	2.69	0.55
1:U:301:LEU:O	1:U:305:LEU:HB2	2.07	0.55
1:U:696:UNK:C	2:V:60:PHE:CZ	2.89	0.55
2:V:77:LEU:HA	2:V:80:THR:HG21	1.88	0.55
1:W:44:GLU:O	1:W:48:ILE:HG13	2.06	0.55
1:W:304:TYR:CE2	1:W:325:SER:HB3	2.42	0.55
1:W:342:LYS:HG3	1:W:343:HIS:H	1.72	0.55
2:X:23:ASN:O	2:X:26:VAL:HG12	2.06	0.55
1:Y:217:ILE:O	1:Y:217:ILE:HG12	2.06	0.55
1:Y:525:LYS:O	1:Y:528:ILE:HD12	2.06	0.55
2:Z:45:THR:H	2:Z:48:MET:HB2	1.72	0.55
2:b:23:ASN:O	2:b:26:VAL:HG12	2.06	0.55
1:c:491:PHE:CA	1:c:576:GLU:HG2	2.36	0.55
1:c:673:UNK:HA	1:c:682:UNK:O	2.06	0.55
2:d:23:ASN:O	2:d:26:VAL:HG12	2.06	0.55
2:d:45:THR:H	2:d:48:MET:HB2	1.72	0.55
1:A:30:LYS:HB3	2:B:51:ASN:ND2	2.21	0.55
1:A:192:VAL:HG23	1:A:221:ILE:CD1	2.30	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:345:ASN:O	1:A:346:CYS:C	2.47	0.55
1:A:353:ILE:HG21	1:A:426:TYR:CA	2.36	0.55
1:A:364:GLU:OE2	1:A:401:VAL:CG2	2.55	0.55
1:A:518:LEU:HD11	1:A:648:UNK:N	2.22	0.55
1:C:301:LEU:O	1:C:305:LEU:HB2	2.07	0.55
1:C:317:LEU:O	1:C:318:THR:OG1	2.20	0.55
1:C:375:PHE:CD1	1:C:375:PHE:N	2.73	0.55
1:C:475:LEU:HA	1:C:478:ILE:HG12	1.87	0.55
1:E:15:ILE:CD1	1:E:96:GLN:N	2.69	0.55
1:E:302:LEU:O	1:E:306:ASP:N	2.39	0.55
2:F:77:LEU:HA	2:F:80:THR:HG21	1.88	0.55
1:G:174:MET:SD	1:G:241:LEU:CD1	2.95	0.55
1:G:364:GLU:OE2	1:G:401:VAL:CG2	2.55	0.55
1:I:15:ILE:CD1	1:I:96:GLN:N	2.69	0.55
1:I:91:PRO:O	1:I:94:THR:HB	2.06	0.55
1:I:353:ILE:HG21	1:I:426:TYR:CA	2.36	0.55
1:I:518:LEU:HD11	1:I:648:UNK:N	2.22	0.55
1:M:198:LYS:O	1:M:201:TYR:HB2	2.06	0.55
1:M:235:LYS:CE	1:M:235:LYS:CA	2.85	0.55
1:M:242:LEU:HD23	1:M:262:ILE:CG2	2.35	0.55
1:M:304:TYR:CE2	1:M:325:SER:HB3	2.42	0.55
1:M:673:UNK:HA	1:M:682:UNK:O	2.06	0.55
1:O:423:PRO:O	1:O:427:LEU:CB	2.54	0.55
2:R:52:THR:HG21	2:R:75:LEU:HA	1.89	0.55
1:S:174:MET:SD	1:S:241:LEU:CD1	2.95	0.55
1:S:488:ARG:CB	1:S:494:PHE:HB2	2.36	0.55
1:S:525:LYS:O	1:S:528:ILE:HD12	2.06	0.55
1:U:198:LYS:O	1:U:201:TYR:HB2	2.06	0.55
1:U:302:LEU:O	1:U:306:ASP:N	2.39	0.55
2:V:45:THR:H	2:V:48:MET:HB2	1.72	0.55
1:W:35:MET:CE	1:W:39:ILE:CD1	2.77	0.55
1:W:404:LYS:CA	1:W:404:LYS:CE	2.85	0.55
2:X:45:THR:H	2:X:48:MET:HB2	1.72	0.55
1:Y:198:LYS:O	1:Y:201:TYR:HB2	2.06	0.55
1:Y:360:LEU:CD1	1:Y:365:TYR:CB	2.69	0.55
1:Y:404:LYS:CA	1:Y:404:LYS:CE	2.86	0.55
2:Z:52:THR:HG21	2:Z:75:LEU:HA	1.89	0.55
1:a:371:ARG:HG3	1:a:389:ILE:CD1	2.30	0.55
1:c:12:TYR:CE2	1:c:92:ILE:HG22	2.41	0.55
1:c:42:LYS:O	1:c:45:ILE:HG22	2.07	0.55
1:c:357:LEU:HD12	1:c:366:ARG:NE	2.20	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:e:488:ARG:CB	1:e:494:PHE:HB2	2.36	0.55
1:C:342:LYS:HG3	1:C:343:HIS:H	1.72	0.54
1:C:404:LYS:CA	1:C:404:LYS:CE	2.85	0.54
2:D:23:ASN:O	2:D:26:VAL:HG12	2.06	0.54
2:D:52:THR:HG21	2:D:75:LEU:HA	1.89	0.54
2:D:77:LEU:HA	2:D:80:THR:HG21	1.88	0.54
1:E:42:LYS:O	1:E:45:ILE:HG22	2.07	0.54
1:E:217:ILE:HG12	1:E:217:ILE:O	2.06	0.54
1:E:301:LEU:O	1:E:305:LEU:HB2	2.07	0.54
1:E:404:LYS:CE	1:E:404:LYS:CA	2.86	0.54
1:E:696:UNK:C	2:F:60:PHE:CZ	2.89	0.54
2:F:45:THR:H	2:F:48:MET:HB2	1.72	0.54
1:G:353:ILE:HG21	1:G:426:TYR:CA	2.36	0.54
1:G:518:LEU:HD11	1:G:648:UNK:N	2.22	0.54
1:I:462:TYR:CE2	1:I:494:PHE:HE1	2.25	0.54
1:K:135:ARG:O	1:K:139:LEU:HG	2.07	0.54
1:K:235:LYS:CE	1:K:238:GLU:CG	2.86	0.54
1:K:488:ARG:CB	1:K:494:PHE:HB2	2.36	0.54
1:M:42:LYS:O	1:M:45:ILE:HG22	2.07	0.54
1:M:235:LYS:HE3	1:M:235:LYS:HA	1.87	0.54
1:M:235:LYS:CE	1:M:238:GLU:CG	2.86	0.54
1:M:357:LEU:HD12	1:M:366:ARG:NE	2.20	0.54
1:O:235:LYS:CE	1:O:235:LYS:CA	2.85	0.54
1:O:301:LEU:O	1:O:305:LEU:HB2	2.07	0.54
1:O:374:VAL:HG21	1:O:375:PHE:CZ	2.41	0.54
1:Q:198:LYS:O	1:Q:201:TYR:HB2	2.06	0.54
1:Q:235:LYS:CE	1:Q:235:LYS:CA	2.85	0.54
1:Q:404:LYS:CA	1:Q:404:LYS:CE	2.86	0.54
2:R:45:THR:H	2:R:48:MET:HB2	1.72	0.54
1:S:231:LEU:HD23	1:S:237:TYR:HE2	1.68	0.54
1:S:353:ILE:HG21	1:S:426:TYR:CA	2.36	0.54
1:U:30:LYS:HB3	2:V:51:ASN:ND2	2.21	0.54
1:U:217:ILE:O	1:U:217:ILE:HG12	2.06	0.54
1:U:404:LYS:CA	1:U:404:LYS:CE	2.86	0.54
2:V:43:ILE:CG2	2:V:44:LEU:CD1	2.85	0.54
1:W:39:ILE:HD11	1:W:76:PHE:CB	2.34	0.54
1:W:151:GLY:HA2	1:W:286:ASP:CG	2.30	0.54
1:W:375:PHE:CD1	1:W:375:PHE:N	2.73	0.54
1:W:475:LEU:HA	1:W:478:ILE:HG12	1.87	0.54
2:X:43:ILE:CG2	2:X:44:LEU:CD1	2.85	0.54
1:Y:353:ILE:HG23	1:Y:426:TYR:HD2	1.72	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:a:141:LEU:HD21	1:a:261:LYS:HB3	1.89	0.54
1:a:235:LYS:HE2	1:a:238:GLU:CG	2.28	0.54
1:a:357:LEU:CG	1:a:430:LYS:HZ3	2.10	0.54
1:a:374:VAL:HG21	1:a:375:PHE:CZ	2.41	0.54
1:c:198:LYS:O	1:c:201:TYR:HB2	2.06	0.54
1:c:235:LYS:HE3	1:c:235:LYS:HA	1.87	0.54
1:c:235:LYS:CE	1:c:235:LYS:CA	2.85	0.54
1:c:235:LYS:CE	1:c:238:GLU:CG	2.86	0.54
1:c:304:TYR:CE2	1:c:325:SER:HB3	2.42	0.54
1:c:449:ILE:HG23	1:c:450:PRO:CD	2.36	0.54
1:e:135:ARG:O	1:e:139:LEU:HG	2.07	0.54
1:e:235:LYS:CE	1:e:238:GLU:CG	2.86	0.54
1:e:525:LYS:O	1:e:528:ILE:HD12	2.06	0.54
1:e:990:UNK:O	1:e:991:UNK:C	2.52	0.54
1:A:15:ILE:CD1	1:A:96:GLN:N	2.69	0.54
1:A:258:LEU:O	1:A:259:SER:CB	2.47	0.54
1:A:279:THR:C	1:A:280:THR:HG22	2.10	0.54
1:A:304:TYR:CE2	1:A:325:SER:HB3	2.42	0.54
1:A:462:TYR:CE2	1:A:494:PHE:HE1	2.25	0.54
1:C:151:GLY:HA2	1:C:286:ASP:CG	2.30	0.54
2:D:43:ILE:CG2	2:D:44:LEU:CD1	2.85	0.54
2:D:45:THR:H	2:D:48:MET:HB2	1.72	0.54
1:E:198:LYS:O	1:E:201:TYR:HB2	2.06	0.54
1:E:304:TYR:CE2	1:E:325:SER:HB3	2.42	0.54
2:F:43:ILE:CG2	2:F:44:LEU:CD1	2.85	0.54
2:F:81:GLN:HA	2:F:81:GLN:NE2	2.08	0.54
1:G:257:ASN:ND2	1:G:257:ASN:H	2.05	0.54
1:G:525:LYS:O	1:G:528:ILE:HD12	2.06	0.54
1:I:141:LEU:HD21	1:I:261:LYS:HB3	1.89	0.54
2:J:77:LEU:HA	2:J:80:THR:HG21	1.88	0.54
1:K:364:GLU:OE2	1:K:401:VAL:CG2	2.55	0.54
1:K:518:LEU:HD11	1:K:648:UNK:N	2.22	0.54
1:M:449:ILE:HG23	1:M:450:PRO:CD	2.36	0.54
1:O:141:LEU:HD21	1:O:261:LYS:HB3	1.89	0.54
1:O:198:LYS:O	1:O:201:TYR:HB2	2.06	0.54
1:O:304:TYR:CE2	1:O:325:SER:HB3	2.42	0.54
1:O:404:LYS:CA	1:O:404:LYS:CE	2.85	0.54
2:R:43:ILE:CB	2:R:44:LEU:HD12	2.38	0.54
1:S:257:ASN:ND2	1:S:257:ASN:H	2.05	0.54
1:S:518:LEU:HD11	1:S:648:UNK:N	2.22	0.54
2:T:43:ILE:CG2	2:T:44:LEU:CD1	2.85	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:U:304:TYR:CE2	1:U:325:SER:HB3	2.42	0.54
1:U:369:PHE:CE1	1:U:411:VAL:HG22	2.42	0.54
1:W:301:LEU:O	1:W:305:LEU:HB2	2.07	0.54
2:X:52:THR:HG21	2:X:75:LEU:HA	1.89	0.54
2:X:77:LEU:HA	2:X:80:THR:HG21	1.88	0.54
1:Y:235:LYS:CE	1:Y:235:LYS:CA	2.85	0.54
1:Y:243:VAL:CG1	1:Y:263:LEU:CG	2.73	0.54
2:Z:43:ILE:CB	2:Z:44:LEU:HD12	2.38	0.54
1:a:198:LYS:O	1:a:201:TYR:HB2	2.06	0.54
1:a:235:LYS:CE	1:a:235:LYS:CA	2.85	0.54
1:a:301:LEU:O	1:a:305:LEU:HB2	2.07	0.54
1:a:404:LYS:CA	1:a:404:LYS:CE	2.85	0.54
1:a:423:PRO:O	1:a:427:LEU:CB	2.54	0.54
2:b:52:THR:HG21	2:b:75:LEU:HA	1.89	0.54
1:c:242:LEU:HD23	1:c:262:ILE:CG2	2.35	0.54
1:e:364:GLU:OE2	1:e:401:VAL:CG2	2.55	0.54
1:A:141:LEU:HD21	1:A:261:LYS:HB3	1.89	0.54
1:A:409:SER:OG	1:A:410:LEU:N	2.38	0.54
2:B:77:LEU:HA	2:B:80:THR:HG21	1.88	0.54
1:C:420:ILE:HG22	1:C:422:ILE:HD13	1.87	0.54
1:E:30:LYS:HB3	2:F:51:ASN:ND2	2.21	0.54
1:E:369:PHE:CE1	1:E:411:VAL:HG22	2.42	0.54
1:E:441:ARG:O	1:E:444:VAL:HG12	2.08	0.54
1:E:536:GLU:HA	1:E:539:VAL:HG13	1.88	0.54
1:G:151:GLY:HA2	1:G:286:ASP:CG	2.30	0.54
1:G:404:LYS:CA	1:G:404:LYS:CE	2.85	0.54
2:H:43:ILE:CG2	2:H:44:LEU:CD1	2.85	0.54
1:I:304:TYR:CE2	1:I:325:SER:HB3	2.42	0.54
1:I:441:ARG:O	1:I:444:VAL:HG12	2.08	0.54
1:I:882:UNK:CA	1:I:883:UNK:N	2.62	0.54
1:K:235:LYS:HE3	1:K:235:LYS:HA	1.87	0.54
1:K:525:LYS:O	1:K:528:ILE:HD12	2.06	0.54
2:N:43:ILE:CB	2:N:44:LEU:HD12	2.38	0.54
1:O:135:ARG:O	1:O:139:LEU:HG	2.07	0.54
1:O:235:LYS:HE2	1:O:238:GLU:CG	2.28	0.54
1:O:322:ARG:NH2	1:O:352:ILE:HG12	2.23	0.54
1:O:353:ILE:HG23	1:O:426:TYR:HD2	1.72	0.54
2:P:43:ILE:CB	2:P:44:LEU:HD12	2.38	0.54
2:P:52:THR:HG21	2:P:75:LEU:HA	1.89	0.54
1:Q:353:ILE:HG23	1:Q:426:TYR:HD2	1.72	0.54
1:Q:457:ASP:HB3	1:Q:583:ARG:HD3	1.89	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Q:882:UNK:CA	1:Q:883:UNK:N	2.62	0.54
1:S:353:ILE:HG23	1:S:426:TYR:HD2	1.72	0.54
1:S:404:LYS:CA	1:S:404:LYS:CE	2.85	0.54
1:U:42:LYS:O	1:U:45:ILE:HG22	2.07	0.54
1:U:353:ILE:HG23	1:U:426:TYR:HD2	1.72	0.54
1:U:441:ARG:O	1:U:444:VAL:HG12	2.08	0.54
1:U:536:GLU:HA	1:U:539:VAL:HG13	1.88	0.54
1:Y:104:ARG:HA	1:Y:107:ILE:HG21	1.84	0.54
1:a:42:LYS:O	1:a:45:ILE:HG22	2.07	0.54
1:a:235:LYS:CE	1:a:238:GLU:CG	2.86	0.54
1:a:304:TYR:CE2	1:a:325:SER:HB3	2.42	0.54
1:a:322:ARG:NH2	1:a:352:ILE:HG12	2.23	0.54
2:b:43:ILE:CB	2:b:44:LEU:HD12	2.38	0.54
1:e:235:LYS:CE	1:e:235:LYS:CA	2.85	0.54
1:e:368:MET:O	1:e:369:PHE:C	2.48	0.54
1:e:441:ARG:O	1:e:444:VAL:HG12	2.08	0.54
1:e:518:LEU:HD11	1:e:648:UNK:N	2.22	0.54
1:A:193:LEU:O	1:A:197:GLN:HB2	2.08	0.54
1:A:441:ARG:O	1:A:444:VAL:HG12	2.08	0.54
2:B:43:ILE:CG2	2:B:44:LEU:CD1	2.85	0.54
1:C:19:PHE:HZ	1:C:92:ILE:CG1	1.90	0.54
1:C:193:LEU:O	1:C:197:GLN:HB2	2.08	0.54
1:C:478:ILE:HG13	1:C:479:GLU:N	2.23	0.54
2:D:43:ILE:CB	2:D:44:LEU:HD12	2.38	0.54
1:E:193:LEU:O	1:E:197:GLN:HB2	2.08	0.54
1:I:193:LEU:O	1:I:197:GLN:HB2	2.08	0.54
1:I:353:ILE:HG23	1:I:426:TYR:HD2	1.72	0.54
2:J:43:ILE:CG2	2:J:44:LEU:CD1	2.85	0.54
1:K:357:LEU:HD12	1:K:366:ARG:NE	2.20	0.54
1:K:368:MET:O	1:K:369:PHE:C	2.48	0.54
1:K:441:ARG:O	1:K:444:VAL:HG12	2.08	0.54
2:L:43:ILE:CB	2:L:44:LEU:HD12	2.38	0.54
1:M:193:LEU:O	1:M:197:GLN:HB2	2.08	0.54
1:M:478:ILE:HG13	1:M:479:GLU:N	2.23	0.54
1:O:42:LYS:O	1:O:45:ILE:HG22	2.07	0.54
1:O:193:LEU:O	1:O:197:GLN:HB2	2.08	0.54
1:O:235:LYS:CE	1:O:238:GLU:CG	2.86	0.54
1:O:365:TYR:OH	1:O:404:LYS:CB	2.55	0.54
1:O:420:ILE:HG22	1:O:422:ILE:HD13	1.87	0.54
1:Q:104:ARG:HA	1:Q:107:ILE:HG21	1.84	0.54
1:Q:193:LEU:O	1:Q:197:GLN:HB2	2.08	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:S:151:GLY:HA2	1:S:286:ASP:CG	2.30	0.54
1:S:902:UNK:C	1:S:904:UNK:N	2.69	0.54
1:U:193:LEU:O	1:U:197:GLN:HB2	2.08	0.54
1:U:364:GLU:OE2	1:U:401:VAL:CG2	2.55	0.54
1:W:193:LEU:O	1:W:197:GLN:HB2	2.08	0.54
1:W:217:ILE:HG12	1:W:217:ILE:O	2.06	0.54
1:W:234:SER:HB3	1:W:236:PRO:CD	2.25	0.54
1:W:420:ILE:HG22	1:W:422:ILE:HD13	1.87	0.54
2:X:43:ILE:CB	2:X:44:LEU:HD12	2.38	0.54
1:Y:193:LEU:O	1:Y:197:GLN:HB2	2.08	0.54
1:Y:457:ASP:HB3	1:Y:583:ARG:HD3	1.89	0.54
1:Y:882:UNK:CA	1:Y:883:UNK:N	2.62	0.54
1:a:353:ILE:HG23	1:a:426:TYR:HD2	1.72	0.54
1:a:365:TYR:OH	1:a:404:LYS:CB	2.55	0.54
1:c:478:ILE:HG13	1:c:479:GLU:N	2.23	0.54
2:d:43:ILE:CB	2:d:44:LEU:HD12	2.38	0.54
1:A:353:ILE:HG23	1:A:426:TYR:HD2	1.72	0.54
1:A:882:UNK:CA	1:A:883:UNK:N	2.62	0.54
1:C:217:ILE:HG12	1:C:217:ILE:O	2.06	0.54
1:C:234:SER:HB3	1:C:236:PRO:CD	2.25	0.54
1:E:353:ILE:HG23	1:E:426:TYR:HD2	1.72	0.54
1:E:364:GLU:OE2	1:E:401:VAL:CG2	2.55	0.54
1:E:518:LEU:HD11	1:E:648:UNK:N	2.22	0.54
2:F:23:ASN:O	2:F:26:VAL:HG12	2.06	0.54
2:F:43:ILE:HD11	2:F:89:LEU:HG	1.90	0.54
1:G:353:ILE:HG23	1:G:426:TYR:HD2	1.72	0.54
1:G:360:LEU:HD11	1:G:365:TYR:HB3	1.83	0.54
1:G:902:UNK:C	1:G:904:UNK:N	2.69	0.54
2:H:43:ILE:HD11	2:H:89:LEU:HG	1.89	0.54
1:I:258:LEU:O	1:I:259:SER:CB	2.47	0.54
1:O:478:ILE:HG13	1:O:479:GLU:N	2.23	0.54
1:Q:478:ILE:HG13	1:Q:479:GLU:N	2.23	0.54
1:S:342:LYS:HG3	1:S:343:HIS:H	1.72	0.54
1:S:360:LEU:HD11	1:S:365:TYR:HB3	1.83	0.54
2:T:45:THR:H	2:T:48:MET:HB2	1.72	0.54
1:U:457:ASP:HB3	1:U:583:ARG:HD3	1.89	0.54
1:U:518:LEU:HD11	1:U:648:UNK:N	2.22	0.54
2:V:43:ILE:HD11	2:V:89:LEU:HG	1.90	0.54
2:V:81:GLN:HA	2:V:81:GLN:NE2	2.08	0.54
1:W:478:ILE:HG13	1:W:479:GLU:N	2.23	0.54
1:Y:135:ARG:O	1:Y:139:LEU:HG	2.07	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Y:478:ILE:HG13	1:Y:479:GLU:N	2.23	0.54
1:a:135:ARG:O	1:a:139:LEU:HG	2.07	0.54
1:a:193:LEU:O	1:a:197:GLN:HB2	2.08	0.54
1:a:288:HIS:CD2	1:a:288:HIS:N	2.73	0.54
1:a:478:ILE:HG13	1:a:479:GLU:N	2.23	0.54
1:c:193:LEU:O	1:c:197:GLN:HB2	2.08	0.54
1:c:420:ILE:HG22	1:c:422:ILE:HD13	1.87	0.54
1:e:235:LYS:HE3	1:e:235:LYS:HA	1.87	0.54
1:e:357:LEU:HD12	1:e:366:ARG:NE	2.20	0.54
2:f:43:ILE:CB	2:f:44:LEU:HD12	2.38	0.54
1:A:15:ILE:CG2	1:A:15:ILE:O	2.56	0.54
1:A:389:ILE:HD12	1:A:389:ILE:C	2.33	0.54
1:A:457:ASP:HB3	1:A:583:ARG:HD3	1.89	0.54
1:C:462:TYR:CE2	1:C:494:PHE:HE1	2.25	0.54
1:E:104:ARG:HA	1:E:107:ILE:HG21	1.84	0.54
1:E:457:ASP:HB3	1:E:583:ARG:HD3	1.89	0.54
1:G:478:ILE:HG13	1:G:479:GLU:N	2.23	0.54
1:I:42:LYS:O	1:I:45:ILE:HG22	2.07	0.54
1:I:368:MET:O	1:I:369:PHE:C	2.48	0.54
1:I:457:ASP:HB3	1:I:583:ARG:HD3	1.89	0.54
1:K:15:ILE:CG2	1:K:15:ILE:O	2.56	0.54
1:K:389:ILE:HD12	1:K:389:ILE:C	2.33	0.54
1:K:457:ASP:HB3	1:K:583:ARG:HD3	1.89	0.54
1:K:478:ILE:HG13	1:K:479:GLU:N	2.23	0.54
1:K:524:TYR:O	1:K:528:ILE:HG23	2.08	0.54
1:M:491:PHE:CA	1:M:576:GLU:HG2	2.36	0.54
1:O:12:TYR:CE2	1:O:92:ILE:HG22	2.41	0.54
1:O:288:HIS:CD2	1:O:288:HIS:N	2.73	0.54
1:Q:364:GLU:OE2	1:Q:401:VAL:CG2	2.55	0.54
1:Q:518:LEU:HD11	1:Q:648:UNK:N	2.22	0.54
2:T:43:ILE:HD11	2:T:89:LEU:HG	1.89	0.54
2:V:23:ASN:O	2:V:26:VAL:HG12	2.06	0.54
1:Y:15:ILE:CD1	1:Y:96:GLN:N	2.69	0.54
1:Y:317:LEU:O	1:Y:318:THR:OG1	2.20	0.54
1:Y:518:LEU:HD11	1:Y:648:UNK:N	2.22	0.54
1:a:15:ILE:CD1	1:a:96:GLN:N	2.69	0.54
1:c:524:TYR:O	1:c:528:ILE:HG23	2.08	0.54
1:e:15:ILE:CG2	1:e:15:ILE:O	2.56	0.54
1:e:478:ILE:HG13	1:e:479:GLU:N	2.23	0.54
1:e:524:TYR:O	1:e:528:ILE:HG23	2.08	0.54
1:A:368:MET:O	1:A:369:PHE:C	2.48	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:410:LEU:HA	1:A:423:PRO:HG3	1.84	0.54
1:A:524:TYR:O	1:A:528:ILE:HG23	2.08	0.54
2:B:52:THR:HG21	2:B:75:LEU:HA	1.89	0.54
1:C:174:MET:SD	1:C:241:LEU:CD1	2.95	0.54
1:C:427:LEU:HD23	1:C:427:LEU:C	2.33	0.54
1:C:441:ARG:O	1:C:444:VAL:HG12	2.08	0.54
2:F:52:THR:HG21	2:F:75:LEU:HA	1.89	0.54
1:G:342:LYS:HG3	1:G:343:HIS:H	1.72	0.54
2:H:45:THR:H	2:H:48:MET:HB2	1.72	0.54
1:I:15:ILE:CG2	1:I:15:ILE:O	2.56	0.54
1:I:389:ILE:HD12	1:I:389:ILE:C	2.33	0.54
1:I:478:ILE:HG13	1:I:479:GLU:N	2.23	0.54
1:K:556:SER:CB	1:K:560:ASP:OD2	2.56	0.54
2:L:45:THR:H	2:L:48:MET:HB2	1.72	0.54
1:M:420:ILE:HG22	1:M:422:ILE:HD13	1.87	0.54
1:M:423:PRO:O	1:M:427:LEU:CB	2.54	0.54
1:M:524:TYR:O	1:M:528:ILE:HG23	2.08	0.54
1:O:15:ILE:CD1	1:O:96:GLN:N	2.69	0.54
1:O:411:VAL:N	1:O:422:ILE:HG23	2.18	0.54
1:Q:15:ILE:CD1	1:Q:96:GLN:N	2.69	0.54
1:Q:135:ARG:O	1:Q:139:LEU:HG	2.07	0.54
1:Q:141:LEU:HD21	1:Q:261:LYS:HB3	1.89	0.54
1:Q:174:MET:SD	1:Q:241:LEU:CD1	2.95	0.54
1:Q:243:VAL:CG1	1:Q:263:LEU:CG	2.73	0.54
2:R:43:ILE:CG2	2:R:44:LEU:CD1	2.85	0.54
1:S:15:ILE:CG2	1:S:15:ILE:O	2.56	0.54
1:S:478:ILE:HG13	1:S:479:GLU:N	2.23	0.54
1:U:104:ARG:HA	1:U:107:ILE:HG21	1.84	0.54
1:U:235:LYS:HE3	1:U:235:LYS:HA	1.87	0.54
1:W:174:MET:SD	1:W:241:LEU:CD1	2.95	0.54
1:W:231:LEU:HD23	1:W:237:TYR:HE2	1.68	0.54
1:W:427:LEU:HD23	1:W:427:LEU:C	2.33	0.54
1:Y:174:MET:SD	1:Y:241:LEU:CD1	2.95	0.54
1:Y:364:GLU:OE2	1:Y:401:VAL:CG2	2.55	0.54
2:Z:43:ILE:CG2	2:Z:44:LEU:CD1	2.85	0.54
1:a:12:TYR:CE2	1:a:92:ILE:HG22	2.41	0.54
1:e:389:ILE:HD12	1:e:389:ILE:C	2.33	0.54
1:e:457:ASP:HB3	1:e:583:ARG:HD3	1.89	0.54
1:A:42:LYS:O	1:A:45:ILE:HG22	2.07	0.54
1:A:478:ILE:HG13	1:A:479:GLU:N	2.23	0.54
1:E:73:VAL:O	1:E:76:PHE:N	2.41	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:235:LYS:HE3	1:E:235:LYS:HA	1.87	0.54
1:E:345:ASN:O	1:E:346:CYS:C	2.47	0.54
1:E:365:TYR:OH	1:E:404:LYS:CB	2.55	0.54
1:E:462:TYR:CE2	1:E:494:PHE:HE1	2.25	0.54
1:E:524:TYR:O	1:E:528:ILE:HG23	2.08	0.54
1:G:15:ILE:CG2	1:G:15:ILE:O	2.56	0.54
1:G:457:ASP:HB3	1:G:583:ARG:HD3	1.89	0.54
1:I:174:MET:SD	1:I:241:LEU:CD1	2.95	0.54
1:I:410:LEU:HA	1:I:423:PRO:HG3	1.84	0.54
1:I:524:TYR:O	1:I:528:ILE:HG23	2.08	0.54
2:J:52:THR:HG21	2:J:75:LEU:HA	1.89	0.54
1:K:174:MET:SD	1:K:241:LEU:CD1	2.95	0.54
1:M:174:MET:SD	1:M:241:LEU:CD1	2.95	0.54
1:M:364:GLU:OE2	1:M:401:VAL:CG2	2.55	0.54
1:M:404:LYS:CE	1:M:404:LYS:CA	2.86	0.54
1:O:15:ILE:HG21	1:O:95:GLU:HB3	1.78	0.54
1:O:174:MET:SD	1:O:241:LEU:CD1	2.95	0.54
1:O:364:GLU:OE2	1:O:401:VAL:CG2	2.55	0.54
1:O:375:PHE:HD2	1:O:466:TYR:HE2	1.56	0.54
1:O:455:SER:OG	1:O:459:ILE:O	2.12	0.54
1:Q:73:VAL:O	1:Q:76:PHE:N	2.41	0.54
1:Q:86:LYS:HD2	1:Q:89:MET:HE1	1.85	0.54
1:Q:251:LYS:HD2	1:Q:252:ALA:CA	2.38	0.54
1:Q:556:SER:CB	1:Q:560:ASP:OD2	2.56	0.54
1:S:251:LYS:HD2	1:S:252:ALA:CA	2.38	0.54
1:S:457:ASP:HB3	1:S:583:ARG:HD3	1.89	0.54
1:U:345:ASN:O	1:U:346:CYS:C	2.47	0.54
1:U:524:TYR:O	1:U:528:ILE:HG23	2.08	0.54
1:W:441:ARG:O	1:W:444:VAL:HG12	2.08	0.54
1:W:462:TYR:CE2	1:W:494:PHE:HE1	2.25	0.54
1:W:556:SER:CB	1:W:560:ASP:OD2	2.56	0.54
1:Y:30:LYS:HB3	2:Z:51:ASN:ND2	2.21	0.54
1:Y:73:VAL:O	1:Y:76:PHE:N	2.41	0.54
1:Y:86:LYS:HD2	1:Y:89:MET:HE1	1.85	0.54
1:Y:141:LEU:HD21	1:Y:261:LYS:HB3	1.89	0.54
1:Y:192:VAL:HG11	1:Y:221:ILE:HD11	1.88	0.54
1:Y:251:LYS:HD2	1:Y:252:ALA:CA	2.38	0.54
1:Y:336:ALA:CB	1:Y:340:ASN:OD1	2.56	0.54
1:Y:360:LEU:HD11	1:Y:365:TYR:HB3	1.83	0.54
1:Y:556:SER:CB	1:Y:560:ASP:OD2	2.56	0.54
1:a:174:MET:SD	1:a:241:LEU:CD1	2.95	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:a:364:GLU:OE2	1:a:401:VAL:CG2	2.55	0.54
1:a:524:TYR:O	1:a:528:ILE:HG23	2.08	0.54
1:c:174:MET:SD	1:c:241:LEU:CD1	2.95	0.54
1:c:404:LYS:CA	1:c:404:LYS:CE	2.86	0.54
1:e:30:LYS:HB3	2:f:51:ASN:ND2	2.21	0.54
1:e:174:MET:SD	1:e:241:LEU:CD1	2.95	0.54
1:e:342:LYS:HG3	1:e:343:HIS:H	1.72	0.54
1:e:353:ILE:HG23	1:e:426:TYR:HD2	1.72	0.54
1:e:556:SER:CB	1:e:560:ASP:OD2	2.56	0.54
2:f:43:ILE:CG2	2:f:44:LEU:CD1	2.85	0.54
1:A:404:LYS:CA	1:A:404:LYS:CE	2.86	0.54
1:C:364:GLU:OE2	1:C:401:VAL:CG2	2.55	0.54
1:C:365:TYR:OH	1:C:404:LYS:CB	2.55	0.54
1:C:491:PHE:CA	1:C:576:GLU:HG2	2.36	0.54
1:C:524:TYR:O	1:C:528:ILE:HG23	2.08	0.54
1:C:556:SER:CB	1:C:560:ASP:OD2	2.56	0.54
1:E:288:HIS:CD2	1:E:288:HIS:N	2.73	0.54
1:E:478:ILE:HG13	1:E:479:GLU:N	2.23	0.54
1:E:902:UNK:C	1:E:904:UNK:N	2.69	0.54
1:G:65:LEU:CD1	1:G:73:VAL:HG22	2.37	0.54
1:G:251:LYS:HD2	1:G:252:ALA:CA	2.38	0.54
1:G:360:LEU:CD1	1:G:365:TYR:CB	2.69	0.54
1:I:87:PHE:HD1	1:I:88:LEU:H	1.56	0.54
1:I:257:ASN:ND2	1:I:257:ASN:H	2.05	0.54
1:I:404:LYS:CE	1:I:404:LYS:CA	2.86	0.54
1:K:30:LYS:HB3	2:L:51:ASN:ND2	2.21	0.54
1:K:365:TYR:OH	1:K:404:LYS:CB	2.55	0.54
2:L:43:ILE:CG2	2:L:44:LEU:CD1	2.85	0.54
1:M:15:ILE:CG2	1:M:15:ILE:O	2.56	0.54
1:M:427:LEU:HD23	1:M:427:LEU:C	2.33	0.54
1:M:556:SER:CB	1:M:560:ASP:OD2	2.56	0.54
1:O:524:TYR:O	1:O:528:ILE:HG23	2.08	0.54
1:O:556:SER:CB	1:O:560:ASP:OD2	2.56	0.54
1:Q:30:LYS:HB3	2:R:51:ASN:ND2	2.21	0.54
1:Q:336:ALA:CB	1:Q:340:ASN:OD1	2.56	0.54
1:Q:360:LEU:HD11	1:Q:365:TYR:HB3	1.83	0.54
1:S:65:LEU:CD1	1:S:73:VAL:HG22	2.37	0.54
1:U:73:VAL:O	1:U:76:PHE:N	2.41	0.54
1:U:174:MET:SD	1:U:241:LEU:CD1	2.95	0.54
1:U:288:HIS:CD2	1:U:288:HIS:N	2.73	0.54
1:U:365:TYR:OH	1:U:404:LYS:CB	2.55	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:U:462:TYR:CE2	1:U:494:PHE:HE1	2.25	0.54
1:U:902:UNK:C	1:U:904:UNK:N	2.69	0.54
2:V:52:THR:HG21	2:V:75:LEU:HA	1.89	0.54
1:W:457:ASP:HB3	1:W:583:ARG:HD3	1.89	0.54
1:Y:304:TYR:CE2	1:Y:325:SER:HB3	2.42	0.54
1:Y:322:ARG:NH2	1:Y:352:ILE:HG12	2.23	0.54
1:a:375:PHE:HD2	1:a:466:TYR:HE2	1.56	0.54
1:a:556:SER:CB	1:a:560:ASP:OD2	2.56	0.54
1:c:15:ILE:CG2	1:c:15:ILE:O	2.56	0.54
1:c:364:GLU:OE2	1:c:401:VAL:CG2	2.55	0.54
1:c:423:PRO:O	1:c:427:LEU:CB	2.54	0.54
1:c:427:LEU:HD23	1:c:427:LEU:C	2.33	0.54
1:c:457:ASP:HB3	1:c:583:ARG:HD3	1.89	0.54
1:c:556:SER:CB	1:c:560:ASP:OD2	2.56	0.54
1:e:365:TYR:OH	1:e:404:LYS:CB	2.55	0.54
1:e:462:TYR:CE2	1:e:494:PHE:HE1	2.25	0.54
2:f:45:THR:H	2:f:48:MET:HB2	1.72	0.54
1:A:82:ARG:HH11	1:A:82:ARG:CG	2.16	0.54
1:A:87:PHE:HD1	1:A:88:LEU:H	1.56	0.54
1:A:174:MET:SD	1:A:241:LEU:CD1	2.95	0.54
1:A:257:ASN:ND2	1:A:257:ASN:H	2.05	0.54
1:A:365:TYR:OH	1:A:404:LYS:CB	2.55	0.54
1:A:427:LEU:HD23	1:A:427:LEU:C	2.33	0.54
1:C:73:VAL:O	1:C:76:PHE:N	2.41	0.54
1:E:423:PRO:O	1:E:427:LEU:CB	2.54	0.54
1:G:87:PHE:HD1	1:G:88:LEU:H	1.56	0.54
1:G:252:ALA:O	1:G:255:ALA:CB	2.51	0.54
1:I:365:TYR:OH	1:I:404:LYS:CB	2.55	0.54
1:I:427:LEU:HD23	1:I:427:LEU:C	2.33	0.54
1:K:193:LEU:O	1:K:197:GLN:HB2	2.08	0.54
1:K:353:ILE:HG23	1:K:426:TYR:HD2	1.72	0.54
2:L:52:THR:HG21	2:L:75:LEU:HA	1.89	0.54
1:M:518:LEU:HD11	1:M:648:UNK:N	2.22	0.54
1:M:545:PHE:CZ	1:M:564:ILE:HB	2.42	0.54
1:O:73:VAL:O	1:O:76:PHE:N	2.41	0.54
2:P:43:ILE:HD11	2:P:89:LEU:HG	1.89	0.54
2:P:43:ILE:CG2	2:P:44:LEU:CD1	2.85	0.54
1:Q:304:TYR:CE2	1:Q:325:SER:HB3	2.42	0.54
1:Q:317:LEU:O	1:Q:318:THR:OG1	2.20	0.54
1:Q:322:ARG:NH2	1:Q:352:ILE:HG12	2.23	0.54
1:S:106:TYR:OH	1:S:110:ARG:CZ	2.53	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:S:141:LEU:HD21	1:S:261:LYS:HB3	1.89	0.54
1:S:192:VAL:HG11	1:S:221:ILE:HD11	1.88	0.54
1:U:478:ILE:HG13	1:U:479:GLU:N	2.23	0.54
2:V:43:ILE:CB	2:V:44:LEU:HD12	2.38	0.54
1:W:364:GLU:OE2	1:W:401:VAL:CG2	2.55	0.54
1:W:365:TYR:OH	1:W:404:LYS:CB	2.55	0.54
1:W:524:TYR:O	1:W:528:ILE:HG23	2.08	0.54
1:Y:235:LYS:CE	1:Y:238:GLU:CG	2.86	0.54
1:Y:375:PHE:HD2	1:Y:466:TYR:HE2	1.56	0.54
1:a:73:VAL:O	1:a:76:PHE:N	2.41	0.54
1:a:411:VAL:N	1:a:422:ILE:HG23	2.18	0.54
2:b:43:ILE:HD11	2:b:89:LEU:HG	1.89	0.54
1:c:518:LEU:HD11	1:c:648:UNK:N	2.22	0.54
1:e:305:LEU:HD13	1:e:305:LEU:C	2.34	0.54
1:A:179:PHE:N	1:A:179:PHE:CD1	2.72	0.53
1:C:231:LEU:HD23	1:C:237:TYR:HE2	1.68	0.53
1:C:357:LEU:HD12	1:C:366:ARG:NE	2.20	0.53
1:C:375:PHE:HD2	1:C:466:TYR:HE2	1.56	0.53
1:C:457:ASP:HB3	1:C:583:ARG:HD3	1.89	0.53
1:E:51:SER:O	1:E:51:SER:OG	2.26	0.53
1:E:174:MET:SD	1:E:241:LEU:CD1	2.95	0.53
2:F:43:ILE:CB	2:F:44:LEU:HD12	2.38	0.53
1:G:106:TYR:OH	1:G:110:ARG:CZ	2.53	0.53
1:G:141:LEU:HD21	1:G:261:LYS:HB3	1.89	0.53
1:G:235:LYS:HE3	1:G:235:LYS:HA	1.87	0.53
1:G:524:TYR:O	1:G:528:ILE:HG23	2.08	0.53
1:I:179:PHE:N	1:I:179:PHE:CD1	2.72	0.53
1:I:556:SER:CB	1:I:560:ASP:OD2	2.56	0.53
2:J:43:ILE:CB	2:J:44:LEU:HD12	2.38	0.53
2:J:45:THR:H	2:J:48:MET:HB2	1.72	0.53
1:K:305:LEU:HD13	1:K:305:LEU:C	2.34	0.53
1:K:342:LYS:HG3	1:K:343:HIS:H	1.72	0.53
1:M:251:LYS:HD2	1:M:252:ALA:CA	2.38	0.53
1:M:322:ARG:NH2	1:M:352:ILE:HG12	2.23	0.53
1:M:457:ASP:HB3	1:M:583:ARG:HD3	1.89	0.53
2:N:43:ILE:CG2	2:N:44:LEU:CD1	2.85	0.53
1:Q:192:VAL:HG11	1:Q:221:ILE:HD11	1.88	0.53
1:Q:235:LYS:CE	1:Q:238:GLU:CG	2.86	0.53
1:Q:375:PHE:HD2	1:Q:466:TYR:HE2	1.56	0.53
1:Q:462:TYR:CE2	1:Q:494:PHE:HE1	2.25	0.53
1:S:87:PHE:HD1	1:S:88:LEU:H	1.56	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:S:524:TYR:O	1:S:528:ILE:HG23	2.08	0.53
1:U:15:ILE:CG2	1:U:15:ILE:O	2.56	0.53
1:W:73:VAL:O	1:W:76:PHE:N	2.41	0.53
1:W:491:PHE:CA	1:W:576:GLU:HG2	2.36	0.53
1:Y:365:TYR:OH	1:Y:404:LYS:CB	2.55	0.53
1:a:455:SER:OG	1:a:459:ILE:O	2.12	0.53
2:b:43:ILE:CG2	2:b:44:LEU:CD1	2.85	0.53
1:c:192:VAL:CB	1:c:221:ILE:HD12	2.21	0.53
1:c:365:TYR:OH	1:c:404:LYS:CB	2.55	0.53
1:c:441:ARG:O	1:c:444:VAL:HG12	2.08	0.53
1:c:545:PHE:CZ	1:c:564:ILE:HB	2.42	0.53
2:f:52:THR:HG21	2:f:75:LEU:HA	1.89	0.53
1:A:12:TYR:CE1	1:A:96:GLN:HB3	2.44	0.53
1:A:73:VAL:O	1:A:76:PHE:N	2.41	0.53
1:A:317:LEU:O	1:A:318:THR:OG1	2.20	0.53
1:A:556:SER:CB	1:A:560:ASP:OD2	2.56	0.53
2:B:43:ILE:CB	2:B:44:LEU:HD12	2.38	0.53
1:C:141:LEU:HD21	1:C:261:LYS:HB3	1.89	0.53
1:E:15:ILE:CG2	1:E:15:ILE:O	2.56	0.53
1:E:87:PHE:HD1	1:E:88:LEU:H	1.56	0.53
1:E:545:PHE:CZ	1:E:564:ILE:HB	2.42	0.53
1:G:73:VAL:O	1:G:76:PHE:N	2.41	0.53
1:I:12:TYR:CE1	1:I:96:GLN:HB3	2.44	0.53
1:K:404:LYS:CA	1:K:404:LYS:CE	2.85	0.53
1:K:462:TYR:CE2	1:K:494:PHE:HE1	2.25	0.53
1:M:30:LYS:HB3	2:N:51:ASN:ND2	2.21	0.53
1:M:365:TYR:OH	1:M:404:LYS:CB	2.55	0.53
1:M:375:PHE:HD2	1:M:466:TYR:HE2	1.56	0.53
1:M:441:ARG:O	1:M:444:VAL:HG12	2.08	0.53
1:M:521:LEU:HD12	1:M:543:LEU:HD21	1.91	0.53
1:O:48:ILE:C	1:O:50:MET:N	2.66	0.53
1:O:488:ARG:HD2	1:O:494:PHE:N	2.23	0.53
1:Q:365:TYR:OH	1:Q:404:LYS:CB	2.55	0.53
1:S:73:VAL:O	1:S:76:PHE:N	2.41	0.53
1:S:360:LEU:CD1	1:S:365:TYR:CB	2.69	0.53
1:S:427:LEU:HD23	1:S:427:LEU:C	2.33	0.53
1:S:462:TYR:CE2	1:S:494:PHE:HE1	2.25	0.53
1:U:51:SER:O	1:U:51:SER:OG	2.26	0.53
1:U:336:ALA:CB	1:U:340:ASN:OD1	2.56	0.53
1:U:423:PRO:O	1:U:427:LEU:CB	2.54	0.53
1:W:141:LEU:HD21	1:W:261:LYS:HB3	1.89	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:W:375:PHE:HD2	1:W:466:TYR:HE2	1.56	0.53
1:Y:462:TYR:CE2	1:Y:494:PHE:HE1	2.25	0.53
1:a:48:ILE:C	1:a:50:MET:N	2.66	0.53
1:a:336:ALA:CB	1:a:340:ASN:OD1	2.56	0.53
1:a:488:ARG:HD2	1:a:494:PHE:N	2.23	0.53
1:c:30:LYS:HB3	2:d:51:ASN:ND2	2.21	0.53
1:c:251:LYS:HD2	1:c:252:ALA:CA	2.38	0.53
1:c:521:LEU:HD12	1:c:543:LEU:HD21	1.91	0.53
2:d:43:ILE:CG2	2:d:44:LEU:CD1	2.85	0.53
1:e:193:LEU:O	1:e:197:GLN:HB2	2.08	0.53
1:e:251:LYS:HD2	1:e:252:ALA:CA	2.38	0.53
1:e:322:ARG:NH2	1:e:352:ILE:HG12	2.23	0.53
1:e:404:LYS:CA	1:e:404:LYS:CE	2.85	0.53
2:B:45:THR:H	2:B:48:MET:HB2	1.72	0.53
1:C:106:TYR:OH	1:C:110:ARG:CZ	2.53	0.53
1:C:322:ARG:NH2	1:C:352:ILE:HG12	2.23	0.53
1:E:141:LEU:HD21	1:E:261:LYS:HB3	1.89	0.53
1:E:251:LYS:HD2	1:E:252:ALA:CA	2.38	0.53
1:G:192:VAL:HG11	1:G:221:ILE:HD11	1.88	0.53
1:G:232:LEU:HA	1:G:237:TYR:HD2	1.74	0.53
1:G:304:TYR:CE2	1:G:325:SER:HB3	2.42	0.53
1:G:405:LEU:CD1	1:G:409:SER:HB3	2.39	0.53
1:G:409:SER:OG	1:G:410:LEU:N	2.38	0.53
1:G:427:LEU:HD23	1:G:427:LEU:C	2.33	0.53
1:G:462:TYR:CE2	1:G:494:PHE:HE1	2.25	0.53
1:I:73:VAL:O	1:I:76:PHE:N	2.41	0.53
1:I:82:ARG:HH11	1:I:82:ARG:CG	2.16	0.53
1:I:242:LEU:HD23	1:I:262:ILE:CB	2.39	0.53
1:K:109:GLN:O	1:K:110:ARG:C	2.51	0.53
1:K:251:LYS:HD2	1:K:252:ALA:CA	2.38	0.53
1:K:322:ARG:NH2	1:K:352:ILE:HG12	2.23	0.53
1:M:405:LEU:CD1	1:M:409:SER:HB3	2.39	0.53
2:N:43:ILE:HD11	2:N:89:LEU:HG	1.90	0.53
1:O:12:TYR:CE1	1:O:96:GLN:HB3	2.44	0.53
1:O:336:ALA:CB	1:O:340:ASN:OD1	2.56	0.53
1:O:427:LEU:HD23	1:O:427:LEU:C	2.33	0.53
1:Q:10:TYR:HE1	1:Q:107:ILE:HG21	1.73	0.53
1:Q:12:TYR:CE1	1:Q:96:GLN:HB3	2.44	0.53
1:Q:106:TYR:OH	1:Q:110:ARG:CZ	2.53	0.53
1:Q:497:LEU:HA	1:Q:500:LYS:HD3	1.91	0.53
1:S:232:LEU:HA	1:S:237:TYR:HD2	1.74	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:S:235:LYS:HE3	1:S:235:LYS:HA	1.87	0.53
1:S:302:LEU:O	1:S:306:ASP:N	2.39	0.53
1:S:304:TYR:CE2	1:S:325:SER:HB3	2.42	0.53
1:S:365:TYR:OH	1:S:404:LYS:CB	2.55	0.53
1:S:405:LEU:CD1	1:S:409:SER:HB3	2.39	0.53
1:U:87:PHE:HD1	1:U:88:LEU:H	1.56	0.53
1:U:141:LEU:HD21	1:U:261:LYS:HB3	1.89	0.53
1:U:257:ASN:ND2	1:U:257:ASN:H	2.05	0.53
1:U:545:PHE:CZ	1:U:564:ILE:HB	2.42	0.53
2:X:43:ILE:HD11	2:X:89:LEU:HG	1.89	0.53
1:Y:12:TYR:CE1	1:Y:96:GLN:HB3	2.44	0.53
1:a:15:ILE:HG21	1:a:95:GLU:HB3	1.78	0.53
1:c:73:VAL:O	1:c:76:PHE:N	2.41	0.53
1:c:322:ARG:NH2	1:c:352:ILE:HG12	2.23	0.53
1:c:375:PHE:HD2	1:c:466:TYR:HE2	1.56	0.53
1:c:405:LEU:CD1	1:c:409:SER:HB3	2.39	0.53
2:d:43:ILE:HD11	2:d:89:LEU:HG	1.90	0.53
1:e:73:VAL:O	1:e:76:PHE:N	2.41	0.53
1:e:882:UNK:CA	1:e:883:UNK:N	2.62	0.53
1:A:242:LEU:HD23	1:A:262:ILE:CB	2.39	0.53
1:A:322:ARG:NH2	1:A:352:ILE:HG12	2.23	0.53
1:C:86:LYS:HD2	1:C:89:MET:HE1	1.85	0.53
1:C:179:PHE:CD1	1:C:179:PHE:N	2.72	0.53
2:D:43:ILE:HD11	2:D:89:LEU:HG	1.89	0.53
1:E:257:ASN:ND2	1:E:257:ASN:H	2.05	0.53
1:E:336:ALA:CB	1:E:340:ASN:OD1	2.56	0.53
1:E:375:PHE:HD2	1:E:466:TYR:HE2	1.56	0.53
1:E:389:ILE:HD12	1:E:389:ILE:C	2.33	0.53
1:E:405:LEU:CD1	1:E:409:SER:HB3	2.39	0.53
1:G:235:LYS:CE	1:G:238:GLU:CG	2.86	0.53
1:G:242:LEU:HD23	1:G:262:ILE:CB	2.39	0.53
1:G:302:LEU:O	1:G:306:ASP:N	2.39	0.53
1:G:365:TYR:OH	1:G:404:LYS:CB	2.55	0.53
1:I:317:LEU:O	1:I:318:THR:OG1	2.20	0.53
1:K:12:TYR:CE1	1:K:96:GLN:HB3	2.44	0.53
1:K:73:VAL:O	1:K:76:PHE:N	2.41	0.53
1:K:242:LEU:HD23	1:K:262:ILE:CB	2.39	0.53
1:K:423:PRO:O	1:K:427:LEU:CB	2.54	0.53
1:K:497:LEU:HA	1:K:500:LYS:HD3	1.91	0.53
1:K:882:UNK:CA	1:K:883:UNK:N	2.62	0.53
1:M:73:VAL:O	1:M:76:PHE:N	2.41	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:406:HIS:HA	1:M:411:VAL:HG12	1.90	0.53
1:O:521:LEU:HD12	1:O:543:LEU:HD21	1.91	0.53
1:S:242:LEU:HD23	1:S:262:ILE:CB	2.39	0.53
1:S:252:ALA:O	1:S:255:ALA:CB	2.51	0.53
2:T:52:THR:HG21	2:T:75:LEU:HA	1.89	0.53
1:U:179:PHE:N	1:U:179:PHE:CD1	2.72	0.53
1:U:242:LEU:HD21	1:U:244:LEU:HD13	1.85	0.53
1:U:251:LYS:HD2	1:U:252:ALA:CA	2.38	0.53
1:U:389:ILE:HD12	1:U:389:ILE:C	2.33	0.53
1:U:405:LEU:CD1	1:U:409:SER:HB3	2.39	0.53
1:W:179:PHE:N	1:W:179:PHE:CD1	2.72	0.53
1:W:322:ARG:NH2	1:W:352:ILE:HG12	2.23	0.53
1:W:357:LEU:HD12	1:W:366:ARG:NE	2.20	0.53
1:Y:10:TYR:HE1	1:Y:107:ILE:HG21	1.73	0.53
1:Y:427:LEU:C	1:Y:427:LEU:HD23	2.33	0.53
1:Y:497:LEU:HA	1:Y:500:LYS:HD3	1.91	0.53
1:a:12:TYR:CE1	1:a:96:GLN:HB3	2.44	0.53
1:a:427:LEU:C	1:a:427:LEU:HD23	2.33	0.53
1:a:518:LEU:HD11	1:a:648:UNK:N	2.22	0.53
1:c:406:HIS:HA	1:c:411:VAL:HG12	1.90	0.53
1:e:12:TYR:CE1	1:e:96:GLN:HB3	2.44	0.53
1:e:109:GLN:O	1:e:110:ARG:C	2.51	0.53
1:e:242:LEU:HD23	1:e:262:ILE:CB	2.39	0.53
1:e:375:PHE:HD2	1:e:466:TYR:HE2	1.56	0.53
1:e:497:LEU:HA	1:e:500:LYS:HD3	1.91	0.53
1:A:232:LEU:HA	1:A:237:TYR:HD2	1.74	0.53
1:C:518:LEU:HD11	1:C:648:UNK:N	2.22	0.53
1:E:232:LEU:HA	1:E:237:TYR:HD2	1.74	0.53
1:E:410:LEU:CD1	1:E:411:VAL:H	2.06	0.53
1:E:484:MET:HG2	1:E:490:VAL:HG21	1.90	0.53
1:I:322:ARG:NH2	1:I:352:ILE:HG12	2.23	0.53
1:K:87:PHE:HD1	1:K:88:LEU:H	1.56	0.53
1:K:375:PHE:HD2	1:K:466:TYR:HE2	1.56	0.53
1:M:12:TYR:CE1	1:M:96:GLN:HB3	2.44	0.53
1:M:51:SER:O	1:M:51:SER:OG	2.26	0.53
1:M:488:ARG:HD2	1:M:494:PHE:N	2.23	0.53
1:O:518:LEU:HD11	1:O:648:UNK:N	2.22	0.53
1:Q:192:VAL:HG23	1:Q:221:ILE:CD1	2.30	0.53
1:Q:371:ARG:HG3	1:Q:389:ILE:CD1	2.30	0.53
1:Q:389:ILE:HD12	1:Q:389:ILE:C	2.33	0.53
1:Q:518:LEU:CD2	1:Q:646:UNK:C	2.52	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:R:43:ILE:HD11	2:R:89:LEU:HG	1.90	0.53
1:S:193:LEU:O	1:S:197:GLN:HB2	2.08	0.53
1:S:235:LYS:CE	1:S:238:GLU:CG	2.86	0.53
1:S:409:SER:OG	1:S:410:LEU:N	2.38	0.53
1:S:484:MET:HG2	1:S:490:VAL:HG21	1.91	0.53
1:U:232:LEU:HA	1:U:237:TYR:HD2	1.74	0.53
1:U:375:PHE:HD2	1:U:466:TYR:HE2	1.56	0.53
1:U:556:SER:CB	1:U:560:ASP:OD2	2.56	0.53
1:W:106:TYR:OH	1:W:110:ARG:CZ	2.53	0.53
1:W:518:LEU:HD11	1:W:648:UNK:N	2.22	0.53
1:W:521:LEU:HD12	1:W:543:LEU:HD21	1.91	0.53
1:Y:106:TYR:OH	1:Y:110:ARG:CZ	2.53	0.53
2:Z:43:ILE:HD11	2:Z:89:LEU:HG	1.90	0.53
1:a:87:PHE:CE2	2:b:83:GLY:HA3	2.33	0.53
1:a:521:LEU:HD12	1:a:543:LEU:HD21	1.91	0.53
1:c:12:TYR:CE1	1:c:96:GLN:HB3	2.44	0.53
1:e:39:ILE:HD11	1:e:76:PHE:CB	2.34	0.53
1:e:257:ASN:ND2	1:e:257:ASN:H	2.05	0.53
1:A:138:LEU:HD21	1:A:170:VAL:CG1	2.31	0.53
1:A:405:LEU:CD1	1:A:409:SER:HB3	2.39	0.53
1:A:533:PRO:HB2	1:A:534:LYS:HE2	1.90	0.53
1:C:521:LEU:HD12	1:C:543:LEU:HD21	1.91	0.53
1:E:242:LEU:HD23	1:E:262:ILE:CB	2.39	0.53
1:E:322:ARG:NH2	1:E:352:ILE:HG12	2.23	0.53
1:E:405:LEU:CB	1:E:411:VAL:HG11	2.28	0.53
1:E:556:SER:CB	1:E:560:ASP:OD2	2.56	0.53
1:G:12:TYR:CE1	1:G:96:GLN:HB3	2.44	0.53
1:G:484:MET:HG2	1:G:490:VAL:HG21	1.91	0.53
1:G:556:SER:CB	1:G:560:ASP:OD2	2.56	0.53
2:H:52:THR:HG21	2:H:75:LEU:HA	1.89	0.53
1:I:232:LEU:HA	1:I:237:TYR:HD2	1.74	0.53
1:I:251:LYS:HD2	1:I:252:ALA:CA	2.38	0.53
1:I:533:PRO:HB2	1:I:534:LYS:HE2	1.90	0.53
2:J:43:ILE:HD11	2:J:89:LEU:HG	1.90	0.53
1:K:39:ILE:HD11	1:K:76:PHE:CB	2.34	0.53
1:K:360:LEU:CD1	1:K:365:TYR:CB	2.69	0.53
1:K:406:HIS:HA	1:K:411:VAL:HG12	1.90	0.53
1:O:15:ILE:CG2	1:O:15:ILE:O	2.56	0.53
1:O:491:PHE:CA	1:O:576:GLU:HG2	2.36	0.53
1:O:533:PRO:HB2	1:O:534:LYS:HE2	1.90	0.53
1:Q:427:LEU:C	1:Q:427:LEU:HD23	2.33	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Q:533:PRO:HB2	1:Q:534:LYS:HE2	1.90	0.53
1:S:12:TYR:CE1	1:S:96:GLN:HB3	2.44	0.53
1:S:556:SER:CB	1:S:560:ASP:OD2	2.56	0.53
1:U:484:MET:HG2	1:U:490:VAL:HG21	1.90	0.53
1:W:232:LEU:HA	1:W:237:TYR:HD2	1.74	0.53
1:W:251:LYS:HD2	1:W:252:ALA:CA	2.38	0.53
1:Y:389:ILE:HD12	1:Y:389:ILE:C	2.33	0.53
1:Y:524:TYR:O	1:Y:528:ILE:HG23	2.08	0.53
1:Y:533:PRO:HB2	1:Y:534:LYS:HE2	1.90	0.53
1:a:15:ILE:CG2	1:a:15:ILE:O	2.56	0.53
1:a:232:LEU:HA	1:a:237:TYR:HD2	1.74	0.53
1:a:305:LEU:HD13	1:a:305:LEU:C	2.34	0.53
1:a:441:ARG:O	1:a:444:VAL:HG12	2.08	0.53
1:a:497:LEU:HA	1:a:500:LYS:HD3	1.91	0.53
1:c:488:ARG:HD2	1:c:494:PHE:N	2.23	0.53
1:c:518:LEU:HD21	1:c:646:UNK:HA	1.86	0.53
1:e:87:PHE:HD1	1:e:88:LEU:H	1.56	0.53
1:e:317:LEU:O	1:e:318:THR:OG1	2.20	0.53
1:e:406:HIS:HA	1:e:411:VAL:HG12	1.90	0.53
1:e:423:PRO:O	1:e:427:LEU:CB	2.54	0.53
1:A:251:LYS:HD2	1:A:252:ALA:CA	2.38	0.53
1:A:305:LEU:HD13	1:A:305:LEU:C	2.34	0.53
1:A:375:PHE:HD2	1:A:466:TYR:HE2	1.56	0.53
1:C:232:LEU:HA	1:C:237:TYR:HD2	1.74	0.53
1:C:251:LYS:HD2	1:C:252:ALA:CA	2.38	0.53
1:C:405:LEU:CD1	1:C:409:SER:HB3	2.39	0.53
1:E:488:ARG:HD2	1:E:494:PHE:N	2.23	0.53
1:E:521:LEU:HD12	1:E:543:LEU:HD21	1.91	0.53
1:G:193:LEU:O	1:G:197:GLN:HB2	2.08	0.53
1:G:389:ILE:HD12	1:G:389:ILE:C	2.33	0.53
1:I:327:ILE:CG2	1:I:341:TRP:CE3	2.84	0.53
1:I:375:PHE:HD2	1:I:466:TYR:HE2	1.56	0.53
1:I:405:LEU:CD1	1:I:409:SER:HB3	2.39	0.53
1:I:902:UNK:C	1:I:904:UNK:N	2.69	0.53
1:O:106:TYR:OH	1:O:110:ARG:CZ	2.53	0.53
1:O:389:ILE:HD12	1:O:389:ILE:C	2.33	0.53
1:O:406:HIS:HA	1:O:411:VAL:HG12	1.90	0.53
1:O:441:ARG:O	1:O:444:VAL:HG12	2.08	0.53
1:O:497:LEU:HA	1:O:500:LYS:HD3	1.91	0.53
1:Q:232:LEU:HA	1:Q:237:TYR:HD2	1.74	0.53
1:Q:441:ARG:O	1:Q:444:VAL:HG12	2.08	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Q:524:TYR:O	1:Q:528:ILE:HG23	2.08	0.53
1:S:441:ARG:O	1:S:444:VAL:HG12	2.08	0.53
1:U:242:LEU:HD23	1:U:262:ILE:CB	2.39	0.53
1:U:521:LEU:HD12	1:U:543:LEU:HD21	1.91	0.53
1:W:389:ILE:HD12	1:W:389:ILE:C	2.33	0.53
1:Y:232:LEU:HA	1:Y:237:TYR:HD2	1.74	0.53
1:a:86:LYS:HD2	1:a:89:MET:HE1	1.85	0.53
1:a:389:ILE:HD12	1:a:389:ILE:C	2.33	0.53
1:a:406:HIS:HA	1:a:411:VAL:HG12	1.90	0.53
1:a:533:PRO:HB2	1:a:534:LYS:HE2	1.90	0.53
1:c:51:SER:O	1:c:51:SER:OG	2.26	0.53
1:e:232:LEU:HA	1:e:237:TYR:HD2	1.74	0.53
1:e:545:PHE:CZ	1:e:564:ILE:HB	2.41	0.53
1:A:902:UNK:C	1:A:904:UNK:N	2.69	0.53
2:B:43:ILE:HD11	2:B:89:LEU:HG	1.90	0.53
1:C:12:TYR:CE1	1:C:96:GLN:HB3	2.44	0.53
1:C:69:GLN:O	1:C:72:MET:HB2	2.09	0.53
1:C:369:PHE:CE1	1:C:411:VAL:HG22	2.42	0.53
1:E:179:PHE:N	1:E:179:PHE:CD1	2.72	0.53
1:E:242:LEU:HD21	1:E:244:LEU:HD13	1.85	0.53
1:E:427:LEU:HD23	1:E:427:LEU:C	2.33	0.53
1:G:69:GLN:O	1:G:72:MET:HB2	2.09	0.53
1:G:375:PHE:HD2	1:G:466:TYR:HE2	1.56	0.53
1:G:441:ARG:O	1:G:444:VAL:HG12	2.08	0.53
1:G:521:LEU:HD12	1:G:543:LEU:HD21	1.91	0.53
1:I:305:LEU:HD13	1:I:305:LEU:C	2.34	0.53
1:I:521:LEU:HD12	1:I:543:LEU:HD21	1.91	0.53
1:K:232:LEU:HA	1:K:237:TYR:HD2	1.74	0.53
1:K:257:ASN:ND2	1:K:257:ASN:H	2.05	0.53
1:K:545:PHE:CZ	1:K:564:ILE:HB	2.41	0.53
1:M:192:VAL:CB	1:M:221:ILE:HD12	2.21	0.53
1:M:242:LEU:HD23	1:M:262:ILE:CB	2.39	0.53
1:O:86:LYS:HD2	1:O:89:MET:HE1	1.85	0.53
1:O:87:PHE:CE2	2:P:83:GLY:HA3	2.33	0.53
1:O:232:LEU:HA	1:O:237:TYR:HD2	1.74	0.53
1:O:251:LYS:HD2	1:O:252:ALA:CA	2.38	0.53
1:O:305:LEU:HD13	1:O:305:LEU:C	2.34	0.53
1:O:405:LEU:CD1	1:O:409:SER:HB3	2.39	0.53
1:Q:32:VAL:O	1:Q:45:ILE:HD11	2.09	0.53
1:Q:109:GLN:O	1:Q:110:ARG:C	2.51	0.53
1:Q:405:LEU:CD1	1:Q:409:SER:HB3	2.39	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Q:488:ARG:HD2	1:Q:494:PHE:N	2.23	0.53
1:S:69:GLN:O	1:S:72:MET:HB2	2.09	0.53
1:S:375:PHE:HD2	1:S:466:TYR:HE2	1.56	0.53
1:S:389:ILE:HD12	1:S:389:ILE:C	2.33	0.53
1:S:521:LEU:HD12	1:S:543:LEU:HD21	1.91	0.53
1:S:533:PRO:HB2	1:S:534:LYS:HE2	1.90	0.53
1:U:322:ARG:NH2	1:U:352:ILE:HG12	2.23	0.53
1:U:488:ARG:HD2	1:U:494:PHE:N	2.23	0.53
1:W:12:TYR:CE1	1:W:96:GLN:HB3	2.44	0.53
1:W:69:GLN:O	1:W:72:MET:HB2	2.09	0.53
1:W:405:LEU:CD1	1:W:409:SER:HB3	2.39	0.53
1:W:410:LEU:HA	1:W:423:PRO:HG3	1.84	0.53
1:Y:32:VAL:O	1:Y:45:ILE:HD11	2.09	0.53
1:Y:247:VAL:O	1:Y:266:THR:HG21	2.06	0.53
1:Y:488:ARG:HD2	1:Y:494:PHE:N	2.23	0.53
1:a:251:LYS:HD2	1:a:252:ALA:CA	2.38	0.53
1:a:491:PHE:CA	1:a:576:GLU:HG2	2.36	0.53
1:c:138:LEU:HD21	1:c:170:VAL:HG11	1.78	0.53
1:c:232:LEU:HA	1:c:237:TYR:HD2	1.74	0.53
1:c:242:LEU:HD23	1:c:262:ILE:CB	2.39	0.53
1:e:247:VAL:O	1:e:266:THR:HG21	2.06	0.53
1:e:427:LEU:C	1:e:427:LEU:HD23	2.33	0.53
1:A:18:VAL:HG21	1:A:103:THR:HG23	1.91	0.53
1:A:277:ALA:O	1:A:278:ALA:HB3	2.09	0.53
1:A:327:ILE:CG2	1:A:341:TRP:CE3	2.84	0.53
1:A:521:LEU:HD12	1:A:543:LEU:HD21	1.91	0.53
2:B:49:LEU:HD13	2:B:53:GLN:HB2	1.91	0.53
1:C:389:ILE:HD12	1:C:389:ILE:C	2.33	0.53
2:D:24:ILE:O	2:D:28:TRP:HD1	1.92	0.53
1:E:492:LEU:HD12	1:E:577:ALA:HB2	1.91	0.53
1:G:533:PRO:HB2	1:G:534:LYS:HE2	1.90	0.53
1:I:277:ALA:O	1:I:278:ALA:HB3	2.09	0.53
2:J:49:LEU:HD13	2:J:53:GLN:HB2	1.91	0.53
1:K:427:LEU:HD23	1:K:427:LEU:C	2.33	0.53
1:M:118:GLN:O	1:M:120:PHE:N	2.42	0.53
1:M:232:LEU:HA	1:M:237:TYR:HD2	1.74	0.53
1:M:360:LEU:CG	1:M:365:TYR:CB	2.48	0.53
1:M:518:LEU:HD21	1:M:646:UNK:HA	1.86	0.53
2:N:24:ILE:O	2:N:28:TRP:HD1	1.92	0.53
1:O:18:VAL:HG21	1:O:103:THR:HG23	1.91	0.53
2:T:43:ILE:CB	2:T:44:LEU:HD12	2.38	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:U:406:HIS:HA	1:U:411:VAL:HG12	1.90	0.53
1:U:427:LEU:C	1:U:427:LEU:HD23	2.33	0.53
1:U:492:LEU:HD12	1:U:577:ALA:HB2	1.91	0.53
1:W:86:LYS:HD2	1:W:89:MET:HE1	1.85	0.53
2:X:24:ILE:O	2:X:28:TRP:HD1	1.92	0.53
1:Y:18:VAL:HG21	1:Y:103:THR:HG23	1.91	0.53
1:Y:192:VAL:HG23	1:Y:221:ILE:CD1	2.30	0.53
1:Y:405:LEU:CD1	1:Y:409:SER:HB3	2.39	0.53
1:Y:441:ARG:O	1:Y:444:VAL:HG12	2.08	0.53
1:a:18:VAL:HG21	1:a:103:THR:HG23	1.91	0.53
1:a:106:TYR:OH	1:a:110:ARG:CZ	2.53	0.53
1:a:231:LEU:HD23	1:a:237:TYR:HE2	1.68	0.53
1:a:302:LEU:O	1:a:306:ASP:N	2.39	0.53
1:a:405:LEU:CD1	1:a:409:SER:HB3	2.39	0.53
1:c:65:LEU:CD1	1:c:73:VAL:HG22	2.37	0.53
1:c:118:GLN:O	1:c:120:PHE:N	2.42	0.53
2:d:24:ILE:O	2:d:28:TRP:HD1	1.92	0.53
2:d:52:THR:HG21	2:d:75:LEU:HA	1.89	0.53
1:e:82:ARG:HH11	1:e:82:ARG:CG	2.16	0.53
1:C:65:LEU:CD1	1:C:73:VAL:HG22	2.37	0.53
1:E:12:TYR:CE1	1:E:96:GLN:HB3	2.44	0.53
1:E:406:HIS:HA	1:E:411:VAL:HG12	1.90	0.53
1:G:372:LEU:HA	1:G:375:PHE:CE1	2.44	0.53
2:H:43:ILE:CB	2:H:44:LEU:HD12	2.38	0.53
2:H:49:LEU:HD13	2:H:53:GLN:HB2	1.91	0.53
1:I:18:VAL:HG21	1:I:103:THR:HG23	1.91	0.53
1:I:138:LEU:HD21	1:I:170:VAL:CG1	2.31	0.53
1:K:247:VAL:O	1:K:266:THR:HG21	2.06	0.53
1:M:18:VAL:HG21	1:M:103:THR:HG23	1.91	0.53
1:M:32:VAL:O	1:M:45:ILE:HD11	2.09	0.53
1:M:87:PHE:HD1	1:M:88:LEU:H	1.56	0.53
1:O:118:GLN:O	1:O:120:PHE:N	2.42	0.53
1:Q:18:VAL:HG21	1:Q:103:THR:HG23	1.91	0.53
1:Q:247:VAL:O	1:Q:266:THR:HG21	2.06	0.53
1:S:18:VAL:HG21	1:S:103:THR:HG23	1.91	0.53
1:S:322:ARG:NH2	1:S:352:ILE:HG12	2.23	0.53
1:S:372:LEU:HA	1:S:375:PHE:CE1	2.44	0.53
2:T:49:LEU:HD13	2:T:53:GLN:HB2	1.91	0.53
1:U:12:TYR:CE1	1:U:96:GLN:HB3	2.44	0.53
1:U:405:LEU:CB	1:U:411:VAL:HG11	2.28	0.53
1:U:410:LEU:CD1	1:U:411:VAL:H	2.06	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:W:65:LEU:CD1	1:W:73:VAL:HG22	2.37	0.53
1:W:129:GLN:CB	1:W:130:PRO:CD	2.84	0.53
1:W:369:PHE:CE1	1:W:411:VAL:HG22	2.42	0.53
1:Y:15:ILE:CG2	1:Y:15:ILE:O	2.56	0.53
1:Y:109:GLN:O	1:Y:110:ARG:C	2.51	0.53
1:Y:371:ARG:HG3	1:Y:389:ILE:CD1	2.30	0.53
1:Y:518:LEU:CD2	1:Y:646:UNK:C	2.52	0.53
1:c:18:VAL:HG21	1:c:103:THR:HG23	1.91	0.53
1:c:302:LEU:O	1:c:306:ASP:N	2.39	0.53
1:e:455:SER:OG	1:e:459:ILE:O	2.12	0.53
1:A:106:TYR:OH	1:A:110:ARG:CZ	2.53	0.52
1:A:372:LEU:HA	1:A:375:PHE:CE1	2.44	0.52
1:C:410:LEU:HA	1:C:423:PRO:HG3	1.84	0.52
1:G:18:VAL:HG21	1:G:103:THR:HG23	1.91	0.52
1:G:87:PHE:HD1	1:G:88:LEU:N	2.07	0.52
1:G:235:LYS:CE	1:G:235:LYS:CA	2.85	0.52
1:I:69:GLN:O	1:I:72:MET:HB2	2.09	0.52
1:I:106:TYR:OH	1:I:110:ARG:CZ	2.53	0.52
1:I:109:GLN:O	1:I:110:ARG:C	2.51	0.52
1:I:235:LYS:CE	1:I:238:GLU:CG	2.86	0.52
1:K:410:LEU:HA	1:K:423:PRO:HG3	1.84	0.52
2:L:49:LEU:HD13	2:L:53:GLN:HB2	1.91	0.52
1:M:65:LEU:CD1	1:M:73:VAL:HG22	2.37	0.52
1:M:372:LEU:HA	1:M:375:PHE:CE1	2.44	0.52
1:O:84:ASN:OD1	1:O:85:TYR:CG	2.62	0.52
1:O:151:GLY:HA2	1:O:286:ASP:CG	2.30	0.52
1:O:411:VAL:N	1:O:423:PRO:CD	2.73	0.52
1:Q:15:ILE:CG2	1:Q:15:ILE:O	2.56	0.52
1:Q:257:ASN:O	1:Q:258:LEU:HD13	2.09	0.52
1:Q:277:ALA:O	1:Q:278:ALA:HB3	2.09	0.52
1:S:87:PHE:HD1	1:S:88:LEU:N	2.07	0.52
1:S:235:LYS:CE	1:S:235:LYS:CA	2.85	0.52
1:U:65:LEU:CD1	1:U:73:VAL:HG22	2.37	0.52
1:Y:257:ASN:O	1:Y:258:LEU:HD13	2.09	0.52
1:Y:277:ALA:O	1:Y:278:ALA:HB3	2.09	0.52
1:a:118:GLN:O	1:a:120:PHE:N	2.42	0.52
1:c:32:VAL:O	1:c:45:ILE:HD11	2.09	0.52
1:c:87:PHE:HD1	1:c:88:LEU:H	1.56	0.52
1:e:87:PHE:CE2	2:f:83:GLY:HA3	2.33	0.52
1:e:360:LEU:CD1	1:e:365:TYR:CB	2.69	0.52
1:e:410:LEU:HA	1:e:423:PRO:HG3	1.84	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:f:49:LEU:HD13	2:f:53:GLN:HB2	1.91	0.52
1:A:69:GLN:O	1:A:72:MET:HB2	2.09	0.52
1:A:235:LYS:CE	1:A:238:GLU:CG	2.86	0.52
1:A:359:VAL:HG13	1:A:360:LEU:N	2.25	0.52
1:A:369:PHE:CZ	1:A:410:LEU:HD21	2.45	0.52
1:C:87:PHE:HD1	1:C:88:LEU:H	1.56	0.52
1:C:129:GLN:CB	1:C:130:PRO:CD	2.84	0.52
1:C:277:ALA:O	1:C:278:ALA:HB3	2.09	0.52
1:C:533:PRO:HB2	1:C:534:LYS:HE2	1.90	0.52
1:E:18:VAL:HG21	1:E:103:THR:HG23	1.91	0.52
1:E:65:LEU:CD1	1:E:73:VAL:HG22	2.37	0.52
1:E:69:GLN:O	1:E:72:MET:HB2	2.09	0.52
1:E:360:LEU:CD1	1:E:365:TYR:CB	2.69	0.52
1:E:372:LEU:HA	1:E:375:PHE:CE1	2.44	0.52
1:E:497:LEU:HA	1:E:500:LYS:HD3	1.91	0.52
1:G:32:VAL:O	1:G:45:ILE:HD11	2.09	0.52
1:G:322:ARG:NH2	1:G:352:ILE:HG12	2.23	0.52
1:I:359:VAL:HG13	1:I:360:LEU:N	2.25	0.52
1:I:369:PHE:CZ	1:I:410:LEU:HD21	2.45	0.52
1:I:372:LEU:HA	1:I:375:PHE:CE1	2.44	0.52
1:I:484:MET:HG2	1:I:490:VAL:HG21	1.90	0.52
1:K:18:VAL:HG21	1:K:103:THR:HG23	1.91	0.52
1:K:82:ARG:HH11	1:K:82:ARG:CG	2.16	0.52
1:K:208:THR:O	1:K:208:THR:OG1	2.26	0.52
1:K:277:ALA:O	1:K:278:ALA:HB3	2.09	0.52
1:M:302:LEU:O	1:M:306:ASP:N	2.39	0.52
1:M:389:ILE:HD12	1:M:389:ILE:C	2.33	0.52
1:M:497:LEU:HA	1:M:500:LYS:HD3	1.91	0.52
1:M:533:PRO:HB2	1:M:534:LYS:HE2	1.90	0.52
2:N:52:THR:HG21	2:N:75:LEU:HA	1.89	0.52
1:O:302:LEU:O	1:O:306:ASP:N	2.39	0.52
2:R:24:ILE:O	2:R:28:TRP:HD1	1.92	0.52
1:S:32:VAL:O	1:S:45:ILE:HD11	2.09	0.52
1:S:545:PHE:CZ	1:S:564:ILE:HB	2.41	0.52
1:U:18:VAL:HG21	1:U:103:THR:HG23	1.91	0.52
1:U:360:LEU:CG	1:U:365:TYR:CB	2.48	0.52
1:U:372:LEU:HA	1:U:375:PHE:CE1	2.44	0.52
1:W:15:ILE:CG2	1:W:15:ILE:O	2.56	0.52
1:W:87:PHE:HD1	1:W:88:LEU:H	1.56	0.52
1:W:235:LYS:CE	1:W:238:GLU:CG	2.86	0.52
1:W:277:ALA:O	1:W:278:ALA:HB3	2.09	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:W:372:LEU:HA	1:W:375:PHE:CE1	2.44	0.52
1:W:533:PRO:HB2	1:W:534:LYS:HE2	1.90	0.52
2:Z:24:ILE:O	2:Z:28:TRP:HD1	1.92	0.52
1:a:84:ASN:OD1	1:a:85:TYR:CG	2.62	0.52
1:a:234:SER:HB3	1:a:236:PRO:CD	2.25	0.52
1:a:411:VAL:N	1:a:423:PRO:CD	2.73	0.52
1:c:369:PHE:HZ	1:c:410:LEU:CD2	2.06	0.52
1:c:372:LEU:HA	1:c:375:PHE:CE1	2.44	0.52
1:e:302:LEU:O	1:e:306:ASP:N	2.39	0.52
1:A:84:ASN:OD1	1:A:85:TYR:CG	2.62	0.52
1:A:109:GLN:O	1:A:110:ARG:C	2.51	0.52
1:A:406:HIS:HA	1:A:411:VAL:HG12	1.90	0.52
1:A:484:MET:HG2	1:A:490:VAL:HG21	1.90	0.52
1:C:336:ALA:CB	1:C:340:ASN:OD1	2.56	0.52
1:C:372:LEU:HA	1:C:375:PHE:CE1	2.44	0.52
1:E:106:TYR:OH	1:E:110:ARG:CZ	2.53	0.52
1:E:234:SER:HB3	1:E:236:PRO:CD	2.25	0.52
1:G:412:GLU:HB2	1:G:421:SER:O	2.10	0.52
1:G:545:PHE:CZ	1:G:564:ILE:HB	2.41	0.52
1:I:406:HIS:HA	1:I:411:VAL:HG12	1.90	0.52
1:K:411:VAL:N	1:K:423:PRO:CD	2.73	0.52
1:K:533:PRO:HB2	1:K:534:LYS:HE2	1.90	0.52
2:L:43:ILE:HD11	2:L:89:LEU:HG	1.89	0.52
1:M:106:TYR:OH	1:M:110:ARG:CZ	2.53	0.52
1:M:412:GLU:HB2	1:M:421:SER:O	2.10	0.52
1:O:30:LYS:HB3	2:P:51:ASN:ND2	2.21	0.52
1:O:231:LEU:HD23	1:O:237:TYR:HE2	1.68	0.52
1:O:234:SER:HB3	1:O:236:PRO:CD	2.25	0.52
1:Q:301:LEU:HD11	1:Q:305:LEU:HG	1.91	0.52
1:Q:372:LEU:HA	1:Q:375:PHE:CE1	2.44	0.52
1:S:179:PHE:N	1:S:179:PHE:CD1	2.72	0.52
1:S:277:ALA:O	1:S:278:ALA:HB3	2.09	0.52
1:S:412:GLU:HB2	1:S:421:SER:O	2.10	0.52
1:U:69:GLN:O	1:U:72:MET:HB2	2.09	0.52
1:U:497:LEU:HA	1:U:500:LYS:HD3	1.91	0.52
1:W:484:MET:HG2	1:W:490:VAL:HG21	1.91	0.52
1:Y:301:LEU:HD11	1:Y:305:LEU:HG	1.91	0.52
1:Y:521:LEU:HD12	1:Y:543:LEU:HD21	1.91	0.52
1:c:359:VAL:HG13	1:c:360:LEU:N	2.25	0.52
1:c:412:GLU:HB2	1:c:421:SER:O	2.10	0.52
1:c:533:PRO:HB2	1:c:534:LYS:HE2	1.90	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:e:18:VAL:HG21	1:e:103:THR:HG23	1.91	0.52
1:e:277:ALA:O	1:e:278:ALA:HB3	2.09	0.52
1:e:411:VAL:N	1:e:423:PRO:CD	2.73	0.52
2:f:43:ILE:HD11	2:f:89:LEU:HG	1.89	0.52
1:A:32:VAL:O	1:A:45:ILE:HD11	2.09	0.52
1:A:192:VAL:HG11	1:A:221:ILE:HD11	1.88	0.52
1:A:302:LEU:O	1:A:306:ASP:N	2.39	0.52
1:A:492:LEU:HD12	1:A:577:ALA:HB2	1.91	0.52
1:C:15:ILE:CG2	1:C:15:ILE:O	2.56	0.52
1:C:18:VAL:HG21	1:C:103:THR:HG23	1.91	0.52
1:C:235:LYS:CE	1:C:238:GLU:CG	2.86	0.52
1:G:177:LYS:HD2	1:G:237:TYR:CD1	2.45	0.52
1:G:179:PHE:CD1	1:G:179:PHE:N	2.72	0.52
1:G:277:ALA:O	1:G:278:ALA:HB3	2.09	0.52
1:G:411:VAL:N	1:G:423:PRO:CD	2.73	0.52
1:I:32:VAL:O	1:I:45:ILE:HD11	2.09	0.52
1:I:84:ASN:OD1	1:I:85:TYR:CG	2.62	0.52
1:I:492:LEU:HD12	1:I:577:ALA:HB2	1.91	0.52
1:K:118:GLN:O	1:K:120:PHE:N	2.42	0.52
1:K:302:LEU:O	1:K:306:ASP:N	2.39	0.52
1:K:388:LEU:HD12	1:K:445:ASP:OD1	2.10	0.52
1:K:902:UNK:C	1:K:904:UNK:N	2.69	0.52
1:M:257:ASN:O	1:M:258:LEU:HD13	2.09	0.52
1:M:359:VAL:HG13	1:M:360:LEU:N	2.25	0.52
1:O:252:ALA:O	1:O:255:ALA:CB	2.51	0.52
1:Q:235:LYS:HE3	1:Q:235:LYS:HA	1.87	0.52
1:S:177:LYS:HD2	1:S:237:TYR:CD1	2.45	0.52
1:S:518:LEU:HD21	1:S:646:UNK:HA	1.86	0.52
1:U:234:SER:HB3	1:U:236:PRO:CD	2.25	0.52
1:U:412:GLU:HB2	1:U:421:SER:O	2.10	0.52
1:Y:235:LYS:HE3	1:Y:235:LYS:HA	1.87	0.52
1:Y:288:HIS:CD2	1:Y:288:HIS:N	2.73	0.52
1:Y:372:LEU:HA	1:Y:375:PHE:CE1	2.44	0.52
1:a:10:TYR:HE1	1:a:107:ILE:HG21	1.73	0.52
1:c:389:ILE:HD12	1:c:389:ILE:C	2.33	0.52
1:c:497:LEU:HA	1:c:500:LYS:HD3	1.91	0.52
1:e:118:GLN:O	1:e:120:PHE:N	2.42	0.52
1:e:208:THR:O	1:e:208:THR:OG1	2.26	0.52
1:e:369:PHE:CZ	1:e:410:LEU:HD21	2.45	0.52
1:e:405:LEU:CD1	1:e:409:SER:HB3	2.39	0.52
1:e:521:LEU:HD12	1:e:543:LEU:HD21	1.91	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:e:533:PRO:HB2	1:e:534:LYS:HE2	1.90	0.52
1:e:902:UNK:C	1:e:904:UNK:N	2.69	0.52
1:C:484:MET:HG2	1:C:490:VAL:HG21	1.91	0.52
1:E:177:LYS:HD2	1:E:237:TYR:CD1	2.45	0.52
1:E:235:LYS:NZ	1:E:238:GLU:CG	2.73	0.52
1:E:360:LEU:CG	1:E:365:TYR:CB	2.48	0.52
1:E:412:GLU:HB2	1:E:421:SER:O	2.10	0.52
1:G:118:GLN:O	1:G:120:PHE:N	2.42	0.52
1:G:406:HIS:HA	1:G:411:VAL:HG12	1.90	0.52
1:I:118:GLN:O	1:I:120:PHE:N	2.42	0.52
1:I:149:ILE:O	1:I:265:THR:HA	2.10	0.52
1:I:192:VAL:HG11	1:I:221:ILE:HD11	1.88	0.52
1:I:302:LEU:O	1:I:306:ASP:N	2.39	0.52
1:I:412:GLU:HB2	1:I:421:SER:O	2.10	0.52
1:K:87:PHE:CE2	2:L:83:GLY:HA3	2.33	0.52
1:K:106:TYR:OH	1:K:110:ARG:CZ	2.53	0.52
1:K:369:PHE:CZ	1:K:410:LEU:HD21	2.45	0.52
1:K:484:MET:HG2	1:K:490:VAL:HG21	1.91	0.52
1:K:488:ARG:HD2	1:K:494:PHE:N	2.23	0.52
1:M:10:TYR:HE1	1:M:107:ILE:HG21	1.73	0.52
1:M:84:ASN:OD1	1:M:85:TYR:CG	2.62	0.52
1:M:388:LEU:HD12	1:M:445:ASP:OD1	2.10	0.52
1:O:195:MET:HE1	1:O:198:LYS:NZ	2.25	0.52
1:O:235:LYS:HE3	1:O:235:LYS:HA	1.87	0.52
1:O:301:LEU:HD11	1:O:305:LEU:HG	1.91	0.52
1:O:359:VAL:HG13	1:O:360:LEU:N	2.25	0.52
1:O:484:MET:HG2	1:O:490:VAL:HG21	1.91	0.52
1:Q:288:HIS:CD2	1:Q:288:HIS:N	2.73	0.52
1:Q:406:HIS:HA	1:Q:411:VAL:HG12	1.90	0.52
1:Q:492:LEU:HD12	1:Q:577:ALA:HB2	1.91	0.52
1:Q:521:LEU:HD12	1:Q:543:LEU:HD21	1.91	0.52
1:S:411:VAL:N	1:S:423:PRO:CD	2.73	0.52
1:U:10:TYR:HE1	1:U:107:ILE:HG21	1.73	0.52
1:U:106:TYR:OH	1:U:110:ARG:CZ	2.53	0.52
1:U:177:LYS:HD2	1:U:237:TYR:CD1	2.45	0.52
1:U:235:LYS:CE	1:U:238:GLU:CG	2.86	0.52
1:U:235:LYS:NZ	1:U:238:GLU:CG	2.73	0.52
1:U:360:LEU:CD1	1:U:365:TYR:CB	2.69	0.52
2:V:49:LEU:HD13	2:V:53:GLN:HB2	1.91	0.52
1:W:18:VAL:HG21	1:W:103:THR:HG23	1.91	0.52
1:W:195:MET:HE1	1:W:198:LYS:NZ	2.25	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:W:301:LEU:HD11	1:W:305:LEU:HG	1.91	0.52
1:W:336:ALA:CB	1:W:340:ASN:OD1	2.56	0.52
1:W:488:ARG:HD2	1:W:494:PHE:N	2.23	0.52
1:Y:406:HIS:HA	1:Y:411:VAL:HG12	1.90	0.52
1:a:30:LYS:HB3	2:b:51:ASN:ND2	2.21	0.52
1:a:32:VAL:O	1:a:45:ILE:HD11	2.09	0.52
1:a:151:GLY:HA2	1:a:286:ASP:CG	2.30	0.52
1:a:242:LEU:HD23	1:a:262:ILE:CB	2.39	0.52
1:a:301:LEU:HD11	1:a:305:LEU:HG	1.91	0.52
1:a:359:VAL:HG13	1:a:360:LEU:N	2.25	0.52
1:a:412:GLU:HB2	1:a:421:SER:O	2.10	0.52
1:a:484:MET:HG2	1:a:490:VAL:HG21	1.91	0.52
2:b:24:ILE:O	2:b:28:TRP:HD1	1.92	0.52
1:c:106:TYR:OH	1:c:110:ARG:CZ	2.53	0.52
1:c:257:ASN:O	1:c:258:LEU:HD13	2.09	0.52
1:c:388:LEU:HD12	1:c:445:ASP:OD1	2.10	0.52
1:e:353:ILE:HG21	1:e:426:TYR:CB	2.38	0.52
1:e:388:LEU:HD12	1:e:445:ASP:OD1	2.10	0.52
1:e:484:MET:HG2	1:e:490:VAL:HG21	1.91	0.52
1:A:149:ILE:O	1:A:265:THR:HA	2.10	0.52
1:A:412:GLU:HB2	1:A:421:SER:O	2.10	0.52
1:C:177:LYS:HD2	1:C:237:TYR:CD1	2.45	0.52
1:C:195:MET:HE1	1:C:198:LYS:NZ	2.25	0.52
1:C:301:LEU:HD11	1:C:305:LEU:HG	1.91	0.52
1:C:488:ARG:HD2	1:C:494:PHE:N	2.23	0.52
1:E:275:LEU:N	1:E:275:LEU:CD1	2.73	0.52
1:G:149:ILE:O	1:G:265:THR:HA	2.10	0.52
1:I:177:LYS:HD2	1:I:237:TYR:CD1	2.45	0.52
1:I:488:ARG:HD2	1:I:494:PHE:N	2.23	0.52
1:I:545:PHE:CZ	1:I:564:ILE:HB	2.42	0.52
1:K:65:LEU:CD1	1:K:73:VAL:HG22	2.37	0.52
1:K:233:LYS:CD	1:K:233:LYS:N	2.73	0.52
1:K:405:LEU:CD1	1:K:409:SER:HB3	2.39	0.52
1:K:521:LEU:HD12	1:K:543:LEU:HD21	1.91	0.52
1:O:10:TYR:HE1	1:O:107:ILE:HG21	1.73	0.52
1:O:242:LEU:HD23	1:O:262:ILE:CB	2.39	0.52
1:O:412:GLU:HB2	1:O:421:SER:O	2.10	0.52
1:Q:118:GLN:O	1:Q:120:PHE:N	2.42	0.52
1:Q:177:LYS:HD2	1:Q:237:TYR:CD1	2.45	0.52
1:S:48:ILE:C	1:S:50:MET:N	2.66	0.52
1:S:118:GLN:O	1:S:120:PHE:N	2.42	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:S:497:LEU:HA	1:S:500:LYS:HD3	1.91	0.52
1:U:118:GLN:O	1:U:120:PHE:N	2.42	0.52
1:U:275:LEU:N	1:U:275:LEU:CD1	2.73	0.52
1:W:177:LYS:HD2	1:W:237:TYR:CD1	2.45	0.52
1:W:247:VAL:O	1:W:266:THR:HG21	2.06	0.52
1:W:497:LEU:HA	1:W:500:LYS:HD3	1.91	0.52
1:Y:69:GLN:O	1:Y:72:MET:HB2	2.09	0.52
1:Y:492:LEU:HD12	1:Y:577:ALA:HB2	1.91	0.52
1:a:195:MET:HE1	1:a:198:LYS:NZ	2.25	0.52
1:a:372:LEU:HA	1:a:375:PHE:CE1	2.44	0.52
1:c:10:TYR:HE1	1:c:107:ILE:HG21	1.73	0.52
1:c:84:ASN:OD1	1:c:85:TYR:CG	2.62	0.52
1:c:87:PHE:HD1	1:c:88:LEU:N	2.07	0.52
1:e:65:LEU:CD1	1:e:73:VAL:HG22	2.37	0.52
1:e:106:TYR:OH	1:e:110:ARG:CZ	2.53	0.52
1:e:192:VAL:HG11	1:e:221:ILE:HD11	1.88	0.52
1:e:233:LYS:CD	1:e:233:LYS:N	2.73	0.52
1:e:372:LEU:HA	1:e:375:PHE:CE1	2.44	0.52
1:A:65:LEU:CD1	1:A:73:VAL:HG22	2.37	0.52
1:A:118:GLN:O	1:A:120:PHE:N	2.42	0.52
1:A:134:LEU:HB3	1:A:164:VAL:HG11	1.92	0.52
1:A:177:LYS:HD2	1:A:237:TYR:CD1	2.45	0.52
1:A:353:ILE:HG21	1:A:426:TYR:CB	2.38	0.52
1:A:545:PHE:CZ	1:A:564:ILE:HB	2.42	0.52
1:C:235:LYS:NZ	1:C:238:GLU:CG	2.73	0.52
1:E:10:TYR:HE1	1:E:107:ILE:HG21	1.73	0.52
1:E:118:GLN:O	1:E:120:PHE:N	2.42	0.52
1:E:235:LYS:CE	1:E:238:GLU:CG	2.86	0.52
1:E:257:ASN:O	1:E:258:LEU:HD13	2.09	0.52
2:F:49:LEU:HD13	2:F:53:GLN:HB2	1.91	0.52
1:G:48:ILE:C	1:G:50:MET:N	2.66	0.52
1:G:177:LYS:HE2	1:G:237:TYR:CE1	2.45	0.52
1:G:497:LEU:HA	1:G:500:LYS:HD3	1.91	0.52
1:K:353:ILE:HG21	1:K:426:TYR:CB	2.38	0.52
1:M:87:PHE:HD1	1:M:88:LEU:N	2.07	0.52
1:M:369:PHE:HZ	1:M:410:LEU:CD2	2.06	0.52
1:O:32:VAL:O	1:O:45:ILE:HD11	2.09	0.52
1:O:69:GLN:O	1:O:72:MET:HB2	2.09	0.52
1:O:177:LYS:HD2	1:O:237:TYR:CD1	2.45	0.52
1:O:275:LEU:N	1:O:275:LEU:CD1	2.73	0.52
1:O:372:LEU:HA	1:O:375:PHE:CE1	2.44	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:P:24:ILE:O	2:P:28:TRP:HD1	1.92	0.52
1:Q:69:GLN:O	1:Q:72:MET:HB2	2.09	0.52
1:Q:87:PHE:HD1	1:Q:88:LEU:H	1.56	0.52
1:Q:410:LEU:HA	1:Q:423:PRO:HG3	1.84	0.52
1:Q:411:VAL:N	1:Q:422:ILE:HG23	2.18	0.52
2:R:49:LEU:HD13	2:R:53:GLN:HB2	1.91	0.52
1:S:10:TYR:HE1	1:S:107:ILE:HG21	1.73	0.52
1:S:149:ILE:O	1:S:265:THR:HA	2.10	0.52
1:S:177:LYS:HE2	1:S:237:TYR:CE1	2.45	0.52
1:S:195:MET:HE1	1:S:198:LYS:NZ	2.25	0.52
1:S:406:HIS:HA	1:S:411:VAL:HG12	1.90	0.52
1:S:488:ARG:HD2	1:S:494:PHE:N	2.23	0.52
1:U:257:ASN:O	1:U:258:LEU:HD13	2.09	0.52
1:W:118:GLN:O	1:W:120:PHE:N	2.42	0.52
1:W:235:LYS:NZ	1:W:238:GLU:CG	2.73	0.52
1:Y:177:LYS:HD2	1:Y:237:TYR:CD1	2.45	0.52
2:Z:49:LEU:HD13	2:Z:53:GLN:HB2	1.91	0.52
1:a:69:GLN:O	1:a:72:MET:HB2	2.09	0.52
1:a:87:PHE:HD1	1:a:88:LEU:N	2.07	0.52
1:a:177:LYS:HD2	1:a:237:TYR:CD1	2.45	0.52
1:a:235:LYS:HE3	1:a:235:LYS:HA	1.87	0.52
1:a:252:ALA:O	1:a:255:ALA:CB	2.51	0.52
1:a:275:LEU:N	1:a:275:LEU:CD1	2.73	0.52
1:c:184:LYS:HZ2	1:c:184:LYS:HB2	1.75	0.52
1:c:360:LEU:CG	1:c:365:TYR:CB	2.48	0.52
1:c:484:MET:HG2	1:c:490:VAL:HG21	1.90	0.52
1:e:84:ASN:OD1	1:e:85:TYR:CG	2.62	0.52
1:e:488:ARG:HD2	1:e:494:PHE:N	2.23	0.52
1:A:177:LYS:HE2	1:A:237:TYR:CE1	2.45	0.52
1:A:275:LEU:N	1:A:275:LEU:CD1	2.73	0.52
1:A:488:ARG:HD2	1:A:494:PHE:N	2.23	0.52
1:C:118:GLN:O	1:C:120:PHE:N	2.42	0.52
1:C:288:HIS:CD2	1:C:288:HIS:N	2.73	0.52
1:C:404:LYS:HA	1:C:404:LYS:CE	2.40	0.52
1:C:497:LEU:HA	1:C:500:LYS:HD3	1.91	0.52
1:C:545:PHE:CZ	1:C:564:ILE:HB	2.41	0.52
1:E:32:VAL:O	1:E:45:ILE:HD11	2.09	0.52
1:G:134:LEU:HB3	1:G:164:VAL:HG11	1.92	0.52
1:G:195:MET:HE1	1:G:198:LYS:NZ	2.25	0.52
1:G:235:LYS:NZ	1:G:238:GLU:CG	2.73	0.52
1:G:369:PHE:CZ	1:G:410:LEU:HD21	2.45	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:488:ARG:HD2	1:G:494:PHE:N	2.23	0.52
1:G:518:LEU:HD21	1:G:646:UNK:HA	1.86	0.52
2:H:58:LYS:O	2:H:60:PHE:N	2.43	0.52
1:I:134:LEU:HB3	1:I:164:VAL:HG11	1.92	0.52
1:I:177:LYS:HE2	1:I:237:TYR:CE1	2.45	0.52
1:I:195:MET:HE1	1:I:198:LYS:NZ	2.25	0.52
1:I:275:LEU:N	1:I:275:LEU:CD1	2.73	0.52
1:I:388:LEU:HD12	1:I:445:ASP:OD1	2.10	0.52
1:K:84:ASN:OD1	1:K:85:TYR:CG	2.62	0.52
1:K:177:LYS:HE2	1:K:237:TYR:CE1	2.45	0.52
1:K:372:LEU:HA	1:K:375:PHE:CE1	2.44	0.52
1:M:149:ILE:O	1:M:265:THR:HA	2.10	0.52
1:M:177:LYS:HD2	1:M:237:TYR:CD1	2.45	0.52
1:M:177:LYS:HE2	1:M:237:TYR:CE1	2.45	0.52
1:M:484:MET:HG2	1:M:490:VAL:HG21	1.90	0.52
1:O:87:PHE:HD1	1:O:88:LEU:N	2.07	0.52
1:O:87:PHE:HD1	1:O:88:LEU:H	1.56	0.52
1:Q:483:ARG:CZ	1:Q:528:ILE:HA	2.40	0.52
1:Q:484:MET:HG2	1:Q:490:VAL:HG21	1.90	0.52
1:S:369:PHE:CZ	1:S:410:LEU:HD21	2.45	0.52
2:T:58:LYS:O	2:T:60:PHE:N	2.43	0.52
1:U:32:VAL:O	1:U:45:ILE:HD11	2.09	0.52
1:W:243:VAL:CG1	1:W:263:LEU:CG	2.73	0.52
1:W:492:LEU:HD12	1:W:577:ALA:HB2	1.91	0.52
1:Y:87:PHE:HD1	1:Y:88:LEU:H	1.56	0.52
1:Y:118:GLN:O	1:Y:120:PHE:N	2.42	0.52
1:Y:302:LEU:O	1:Y:306:ASP:N	2.39	0.52
1:Y:410:LEU:HA	1:Y:423:PRO:HG3	1.84	0.52
1:c:149:ILE:O	1:c:265:THR:HA	2.10	0.52
1:c:1012:UNK:O	1:c:1013:UNK:C	2.57	0.52
1:e:32:VAL:O	1:e:45:ILE:HD11	2.09	0.52
1:e:177:LYS:HD2	1:e:237:TYR:CD1	2.45	0.52
1:e:177:LYS:HE2	1:e:237:TYR:CE1	2.45	0.52
1:e:195:MET:HE1	1:e:198:LYS:NZ	2.25	0.52
1:A:388:LEU:HD12	1:A:445:ASP:OD1	2.10	0.52
1:C:247:VAL:O	1:C:266:THR:HG21	2.06	0.52
1:E:256:PHE:O	1:E:258:LEU:HD22	2.10	0.52
1:G:10:TYR:HE1	1:G:107:ILE:HG21	1.73	0.52
1:G:87:PHE:CE1	1:G:88:LEU:CD1	2.93	0.52
1:I:65:LEU:CD1	1:I:73:VAL:HG22	2.37	0.52
1:I:353:ILE:HG21	1:I:426:TYR:CB	2.38	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:357:LEU:HD12	1:I:366:ARG:NE	2.20	0.52
1:K:32:VAL:O	1:K:45:ILE:HD11	2.09	0.52
1:K:87:PHE:HD1	1:K:88:LEU:N	2.07	0.52
1:K:177:LYS:HD2	1:K:237:TYR:CD1	2.45	0.52
1:K:192:VAL:HG11	1:K:221:ILE:HD11	1.88	0.52
1:K:195:MET:HE1	1:K:198:LYS:NZ	2.25	0.52
1:K:488:ARG:CG	1:K:488:ARG:NH1	2.65	0.52
2:L:24:ILE:O	2:L:28:TRP:HD1	1.92	0.52
1:M:188:SER:N	1:M:191:THR:CG2	2.73	0.52
1:O:277:ALA:O	1:O:278:ALA:HB3	2.09	0.52
1:O:342:LYS:HG3	1:O:343:HIS:H	1.72	0.52
1:O:1012:UNK:O	1:O:1013:UNK:C	2.57	0.52
1:Q:35:MET:CE	1:Q:39:ILE:CD1	2.77	0.52
1:Q:245:LEU:HD23	1:Q:265:THR:CG2	2.40	0.52
1:Q:1012:UNK:O	1:Q:1013:UNK:C	2.57	0.52
1:S:134:LEU:HB3	1:S:164:VAL:HG11	1.92	0.52
1:S:235:LYS:NZ	1:S:238:GLU:CG	2.73	0.52
1:S:305:LEU:HD13	1:S:305:LEU:C	2.34	0.52
1:U:256:PHE:O	1:U:258:LEU:HD22	2.10	0.52
1:W:288:HIS:CD2	1:W:288:HIS:N	2.73	0.52
1:W:404:LYS:HA	1:W:404:LYS:CE	2.40	0.52
1:W:902:UNK:C	1:W:904:UNK:N	2.69	0.52
1:Y:87:PHE:HD1	1:Y:88:LEU:N	2.07	0.52
1:Y:245:LEU:HD23	1:Y:265:THR:CG2	2.40	0.52
1:Y:483:ARG:CZ	1:Y:528:ILE:HA	2.40	0.52
1:Y:484:MET:HG2	1:Y:490:VAL:HG21	1.90	0.52
1:Y:1012:UNK:O	1:Y:1013:UNK:C	2.57	0.52
1:a:87:PHE:HD1	1:a:88:LEU:H	1.56	0.52
1:a:256:PHE:O	1:a:258:LEU:HD22	2.10	0.52
1:a:1012:UNK:O	1:a:1013:UNK:C	2.57	0.52
2:b:49:LEU:HD13	2:b:53:GLN:HB2	1.91	0.52
1:c:177:LYS:HD2	1:c:237:TYR:CD1	2.45	0.52
1:c:177:LYS:HE2	1:c:237:TYR:CE1	2.45	0.52
1:c:188:SER:N	1:c:191:THR:CG2	2.73	0.52
1:c:256:PHE:O	1:c:258:LEU:HD22	2.10	0.52
1:c:353:ILE:HG21	1:c:426:TYR:CB	2.38	0.52
1:e:87:PHE:HD1	1:e:88:LEU:N	2.07	0.52
1:e:256:PHE:O	1:e:258:LEU:HD22	2.10	0.52
1:A:195:MET:HE1	1:A:198:LYS:NZ	2.25	0.52
1:A:256:PHE:O	1:A:258:LEU:HD22	2.10	0.52
1:A:1012:UNK:O	1:A:1013:UNK:C	2.57	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:359:VAL:HG13	1:C:360:LEU:N	2.25	0.52
1:C:492:LEU:HD12	1:C:577:ALA:HB2	1.91	0.52
1:C:902:UNK:C	1:C:904:UNK:N	2.69	0.52
1:C:1012:UNK:O	1:C:1013:UNK:C	2.57	0.52
1:E:177:LYS:HE2	1:E:237:TYR:CE1	2.45	0.52
1:E:279:THR:C	1:E:280:THR:HG23	2.35	0.52
1:E:371:ARG:HG3	1:E:389:ILE:CD1	2.30	0.52
1:E:483:ARG:CZ	1:E:528:ILE:HA	2.40	0.52
1:G:279:THR:C	1:G:280:THR:HG23	2.35	0.52
1:G:492:LEU:HD12	1:G:577:ALA:HB2	1.91	0.52
1:I:256:PHE:O	1:I:258:LEU:HD22	2.10	0.52
1:K:170:VAL:O	1:K:174:MET:HE2	2.10	0.52
1:K:256:PHE:O	1:K:258:LEU:HD22	2.10	0.52
1:M:48:ILE:C	1:M:50:MET:N	2.66	0.52
1:M:192:VAL:HG23	1:M:221:ILE:CD1	2.30	0.52
1:M:232:LEU:C	1:M:234:SER:N	2.57	0.52
1:M:245:LEU:HD23	1:M:265:THR:CG2	2.40	0.52
1:M:256:PHE:O	1:M:258:LEU:HD22	2.10	0.52
1:M:352:ILE:CD1	1:M:352:ILE:N	2.73	0.52
1:M:1012:UNK:O	1:M:1013:UNK:C	2.57	0.52
1:O:51:SER:O	1:O:51:SER:OG	2.26	0.52
1:O:87:PHE:CE1	1:O:88:LEU:CD1	2.93	0.52
1:O:256:PHE:O	1:O:258:LEU:HD22	2.10	0.52
1:Q:87:PHE:HD1	1:Q:88:LEU:N	2.07	0.52
1:Q:195:MET:HE1	1:Q:198:LYS:NZ	2.25	0.52
1:Q:256:PHE:O	1:Q:258:LEU:HD22	2.10	0.52
1:Q:410:LEU:CG	1:Q:423:PRO:CD	2.47	0.52
1:Q:1130:UNK:HA	1:Q:1145:UNK:O	2.10	0.52
1:S:87:PHE:CE1	1:S:88:LEU:CD1	2.93	0.52
1:S:170:VAL:O	1:S:174:MET:HE2	2.10	0.52
1:S:279:THR:C	1:S:280:THR:HG23	2.35	0.52
1:S:1012:UNK:O	1:S:1013:UNK:C	2.57	0.52
1:U:279:THR:C	1:U:280:THR:HG23	2.35	0.52
1:U:483:ARG:CZ	1:U:528:ILE:HA	2.40	0.52
1:W:10:TYR:HE1	1:W:107:ILE:HG21	1.73	0.52
1:W:360:LEU:HD11	1:W:365:TYR:HB3	1.83	0.52
1:W:412:GLU:HB2	1:W:421:SER:O	2.10	0.52
1:Y:195:MET:HE1	1:Y:198:LYS:NZ	2.25	0.52
1:Y:256:PHE:O	1:Y:258:LEU:HD22	2.10	0.52
1:a:277:ALA:O	1:a:278:ALA:HB3	2.09	0.52
1:c:48:ILE:C	1:c:50:MET:N	2.66	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:c:87:PHE:CE1	1:c:88:LEU:CD1	2.93	0.52
1:c:232:LEU:C	1:c:234:SER:N	2.57	0.52
1:c:245:LEU:HD23	1:c:265:THR:CG2	2.40	0.52
1:c:352:ILE:CD1	1:c:352:ILE:N	2.73	0.52
1:c:369:PHE:CZ	1:c:410:LEU:HD21	2.45	0.52
1:e:170:VAL:O	1:e:174:MET:HE2	2.10	0.52
1:e:488:ARG:CG	1:e:488:ARG:NH1	2.65	0.52
1:e:1012:UNK:O	1:e:1013:UNK:C	2.57	0.52
1:C:10:TYR:HE1	1:C:107:ILE:HG21	1.73	0.51
1:C:87:PHE:CE1	1:C:88:LEU:CD1	2.93	0.51
1:C:371:ARG:HG3	1:C:389:ILE:CD1	2.30	0.51
1:C:412:GLU:HB2	1:C:421:SER:O	2.10	0.51
1:E:149:ILE:O	1:E:265:THR:HA	2.10	0.51
1:E:1012:UNK:O	1:E:1013:UNK:C	2.57	0.51
1:G:170:VAL:O	1:G:174:MET:HE2	2.10	0.51
1:G:233:LYS:CD	1:G:233:LYS:N	2.73	0.51
1:G:305:LEU:HD13	1:G:305:LEU:C	2.34	0.51
1:I:360:LEU:CD1	1:I:365:TYR:CB	2.69	0.51
1:I:497:LEU:HA	1:I:500:LYS:HD3	1.91	0.51
1:I:1012:UNK:O	1:I:1013:UNK:C	2.57	0.51
2:J:58:LYS:O	2:J:60:PHE:N	2.43	0.51
1:K:483:ARG:CZ	1:K:528:ILE:HA	2.40	0.51
1:K:1012:UNK:O	1:K:1013:UNK:C	2.57	0.51
1:M:69:GLN:O	1:M:72:MET:HB2	2.09	0.51
1:M:87:PHE:CE1	1:M:88:LEU:CD1	2.93	0.51
1:M:353:ILE:HG21	1:M:426:TYR:CB	2.38	0.51
1:O:352:ILE:CD1	1:O:352:ILE:N	2.73	0.51
1:O:545:PHE:CZ	1:O:564:ILE:HB	2.41	0.51
2:P:49:LEU:HD13	2:P:53:GLN:HB2	1.91	0.51
2:P:58:LYS:O	2:P:60:PHE:N	2.43	0.51
1:Q:302:LEU:O	1:Q:306:ASP:N	2.39	0.51
1:S:233:LYS:CD	1:S:233:LYS:N	2.73	0.51
1:U:177:LYS:HE2	1:U:237:TYR:CE1	2.45	0.51
2:V:24:ILE:O	2:V:28:TRP:HD1	1.92	0.51
1:W:87:PHE:CE1	1:W:88:LEU:CD1	2.93	0.51
1:W:359:VAL:HG13	1:W:360:LEU:N	2.25	0.51
1:W:388:LEU:HD12	1:W:445:ASP:OD1	2.10	0.51
1:W:545:PHE:CZ	1:W:564:ILE:HB	2.41	0.51
1:W:1012:UNK:O	1:W:1013:UNK:C	2.57	0.51
1:Y:411:VAL:N	1:Y:422:ILE:HG23	2.18	0.51
1:Y:1130:UNK:HA	1:Y:1145:UNK:O	2.10	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:a:82:ARG:CG	1:a:82:ARG:NH1	2.72	0.51
1:a:87:PHE:CE1	1:a:88:LEU:CD1	2.93	0.51
1:a:257:ASN:O	1:a:258:LEU:HD13	2.09	0.51
1:a:342:LYS:HG3	1:a:343:HIS:H	1.72	0.51
1:a:352:ILE:CD1	1:a:352:ILE:N	2.73	0.51
2:b:58:LYS:O	2:b:60:PHE:N	2.43	0.51
1:c:69:GLN:O	1:c:72:MET:HB2	2.09	0.51
1:c:247:VAL:O	1:c:266:THR:HG21	2.06	0.51
1:c:306:ASP:C	1:c:307:CYS:SG	2.94	0.51
1:e:134:LEU:HB3	1:e:164:VAL:HG11	1.92	0.51
1:e:306:ASP:C	1:e:307:CYS:SG	2.94	0.51
1:e:483:ARG:CZ	1:e:528:ILE:HA	2.40	0.51
2:f:24:ILE:O	2:f:28:TRP:HD1	1.92	0.51
1:A:10:TYR:HE1	1:A:107:ILE:HG21	1.73	0.51
1:A:87:PHE:CE1	1:A:88:LEU:CD1	2.93	0.51
1:A:88:LEU:CA	1:A:91:PRO:HD2	2.39	0.51
1:A:170:VAL:O	1:A:174:MET:HE2	2.11	0.51
1:A:352:ILE:CD1	1:A:352:ILE:N	2.73	0.51
1:A:357:LEU:HD12	1:A:366:ARG:NE	2.20	0.51
2:B:58:LYS:O	2:B:60:PHE:N	2.43	0.51
1:C:35:MET:HE3	1:C:39:ILE:HD13	1.89	0.51
1:C:192:VAL:HG23	1:C:221:ILE:HD12	1.92	0.51
1:C:388:LEU:HD12	1:C:445:ASP:OD1	2.10	0.51
2:D:58:LYS:O	2:D:60:PHE:N	2.43	0.51
1:E:359:VAL:HG13	1:E:360:LEU:N	2.25	0.51
2:F:58:LYS:O	2:F:60:PHE:N	2.43	0.51
1:G:300:LEU:O	1:G:301:LEU:C	2.52	0.51
1:G:388:LEU:HD12	1:G:445:ASP:OD1	2.10	0.51
1:G:1012:UNK:O	1:G:1013:UNK:C	2.57	0.51
1:G:1130:UNK:HA	1:G:1145:UNK:O	2.10	0.51
1:I:87:PHE:CE1	1:I:88:LEU:CD1	2.93	0.51
1:I:170:VAL:O	1:I:174:MET:HE2	2.11	0.51
1:K:134:LEU:HB3	1:K:164:VAL:HG11	1.92	0.51
1:K:306:ASP:C	1:K:307:CYS:SG	2.94	0.51
1:K:352:ILE:CD1	1:K:352:ILE:N	2.73	0.51
1:M:235:LYS:NZ	1:M:238:GLU:CG	2.73	0.51
1:M:306:ASP:C	1:M:307:CYS:SG	2.94	0.51
1:M:369:PHE:CZ	1:M:410:LEU:HD21	2.45	0.51
1:M:492:LEU:HD12	1:M:577:ALA:HB2	1.91	0.51
1:O:82:ARG:CG	1:O:82:ARG:NH1	2.72	0.51
1:O:170:VAL:O	1:O:174:MET:HE2	2.10	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:O:245:LEU:HD23	1:O:265:THR:CG2	2.40	0.51
1:O:306:ASP:C	1:O:307:CYS:SG	2.94	0.51
1:O:1130:UNK:HA	1:O:1145:UNK:O	2.10	0.51
1:Q:87:PHE:CE1	1:Q:88:LEU:CD1	2.93	0.51
1:Q:557:LYS:O	1:Q:559:THR:N	2.44	0.51
2:R:58:LYS:O	2:R:60:PHE:N	2.43	0.51
1:S:300:LEU:O	1:S:301:LEU:C	2.52	0.51
1:S:352:ILE:CD1	1:S:352:ILE:N	2.73	0.51
1:S:492:LEU:HD12	1:S:577:ALA:HB2	1.91	0.51
1:S:1130:UNK:HA	1:S:1145:UNK:O	2.10	0.51
1:U:149:ILE:O	1:U:265:THR:HA	2.10	0.51
1:U:277:ALA:O	1:U:278:ALA:HB3	2.09	0.51
1:U:359:VAL:HG13	1:U:360:LEU:N	2.25	0.51
1:U:533:PRO:HB2	1:U:534:LYS:HE2	1.90	0.51
2:V:58:LYS:O	2:V:60:PHE:N	2.43	0.51
1:W:35:MET:HE3	1:W:39:ILE:HD13	1.89	0.51
1:W:87:PHE:HD1	1:W:88:LEU:N	2.07	0.51
1:W:275:LEU:N	1:W:275:LEU:CD1	2.73	0.51
2:X:58:LYS:O	2:X:60:PHE:N	2.43	0.51
1:Y:35:MET:CE	1:Y:39:ILE:CD1	2.77	0.51
1:Y:388:LEU:HD12	1:Y:445:ASP:OD1	2.10	0.51
1:Y:518:LEU:HD21	1:Y:646:UNK:HA	1.86	0.51
1:Y:557:LYS:O	1:Y:559:THR:N	2.44	0.51
1:a:51:SER:O	1:a:51:SER:OG	2.26	0.51
1:a:245:LEU:HD23	1:a:265:THR:CG2	2.40	0.51
1:a:306:ASP:C	1:a:307:CYS:SG	2.94	0.51
1:a:1130:UNK:HA	1:a:1145:UNK:O	2.10	0.51
1:c:492:LEU:HD12	1:c:577:ALA:HB2	1.91	0.51
1:e:352:ILE:CD1	1:e:352:ILE:N	2.73	0.51
1:A:82:ARG:CG	1:A:82:ARG:NH1	2.73	0.51
1:A:306:ASP:C	1:A:307:CYS:SG	2.94	0.51
1:A:483:ARG:CZ	1:A:528:ILE:HA	2.40	0.51
1:A:497:LEU:HA	1:A:500:LYS:HD3	1.91	0.51
1:A:1130:UNK:HA	1:A:1145:UNK:O	2.10	0.51
1:C:177:LYS:HE2	1:C:237:TYR:CE1	2.45	0.51
1:C:188:SER:N	1:C:191:THR:CG2	2.73	0.51
1:C:243:VAL:CG1	1:C:263:LEU:CG	2.73	0.51
1:C:256:PHE:O	1:C:258:LEU:HD22	2.10	0.51
1:C:275:LEU:N	1:C:275:LEU:CD1	2.73	0.51
1:C:279:THR:C	1:C:280:THR:HG23	2.35	0.51
1:C:360:LEU:HD11	1:C:365:TYR:HB3	1.83	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:369:PHE:CE2	1:C:410:LEU:HD21	2.45	0.51
1:E:38:SER:O	1:E:72:MET:SD	2.69	0.51
1:E:195:MET:HE1	1:E:198:LYS:NZ	2.25	0.51
1:E:301:LEU:HD11	1:E:305:LEU:HG	1.91	0.51
1:E:1130:UNK:HA	1:E:1145:UNK:O	2.10	0.51
2:F:24:ILE:O	2:F:28:TRP:HD1	1.92	0.51
1:G:352:ILE:CD1	1:G:352:ILE:N	2.73	0.51
2:H:58:LYS:C	2:H:60:PHE:N	2.69	0.51
1:I:306:ASP:C	1:I:307:CYS:SG	2.94	0.51
1:I:352:ILE:CD1	1:I:352:ILE:N	2.73	0.51
1:I:360:LEU:CG	1:I:365:TYR:CB	2.48	0.51
1:I:483:ARG:CZ	1:I:528:ILE:HA	2.40	0.51
1:K:149:ILE:O	1:K:265:THR:HA	2.10	0.51
1:O:177:LYS:HE2	1:O:237:TYR:CE1	2.45	0.51
1:O:188:SER:N	1:O:191:THR:CG2	2.73	0.51
1:O:247:VAL:CG2	1:O:264:LEU:CD1	2.89	0.51
1:O:257:ASN:O	1:O:258:LEU:HD13	2.09	0.51
1:O:483:ARG:HG3	1:O:487:PHE:CE1	2.46	0.51
1:Q:388:LEU:HD12	1:Q:445:ASP:OD1	2.10	0.51
1:S:388:LEU:HD12	1:S:445:ASP:OD1	2.10	0.51
1:S:458:LEU:HD11	1:S:576:GLU:OE2	2.11	0.51
2:T:58:LYS:C	2:T:60:PHE:N	2.69	0.51
1:U:38:SER:O	1:U:72:MET:SD	2.69	0.51
1:U:186:CYS:CA	1:U:191:THR:HG21	2.40	0.51
1:U:1012:UNK:O	1:U:1013:UNK:C	2.57	0.51
1:U:1130:UNK:HA	1:U:1145:UNK:O	2.10	0.51
1:W:192:VAL:HG23	1:W:221:ILE:HD12	1.92	0.51
1:W:279:THR:C	1:W:280:THR:HG23	2.35	0.51
1:W:369:PHE:CE2	1:W:410:LEU:HD21	2.45	0.51
1:Y:87:PHE:CE1	1:Y:88:LEU:CD1	2.93	0.51
1:Y:235:LYS:NZ	1:Y:238:GLU:CG	2.73	0.51
1:Y:242:LEU:HD23	1:Y:262:ILE:CB	2.39	0.51
1:Y:359:VAL:HG13	1:Y:360:LEU:N	2.25	0.51
2:Z:58:LYS:O	2:Z:60:PHE:N	2.43	0.51
1:a:170:VAL:O	1:a:174:MET:HE2	2.10	0.51
1:a:188:SER:N	1:a:191:THR:CG2	2.73	0.51
1:a:247:VAL:CG2	1:a:264:LEU:CD1	2.89	0.51
1:a:465:GLN:NE2	1:a:502:ARG:NH1	2.59	0.51
1:a:483:ARG:HG3	1:a:487:PHE:CE1	2.46	0.51
1:a:483:ARG:CZ	1:a:528:ILE:HA	2.40	0.51
1:a:545:PHE:CZ	1:a:564:ILE:HB	2.41	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:c:170:VAL:O	1:c:174:MET:HE2	2.11	0.51
1:e:149:ILE:O	1:e:265:THR:HA	2.10	0.51
1:A:38:SER:O	1:A:72:MET:SD	2.69	0.51
1:A:87:PHE:HD1	1:A:88:LEU:N	2.07	0.51
1:A:186:CYS:CA	1:A:191:THR:HG21	2.40	0.51
1:A:233:LYS:CD	1:A:233:LYS:N	2.73	0.51
1:A:235:LYS:NZ	1:A:238:GLU:CG	2.73	0.51
1:C:32:VAL:O	1:C:45:ILE:HD11	2.09	0.51
1:C:87:PHE:HD1	1:C:88:LEU:N	2.07	0.51
2:D:49:LEU:HD13	2:D:53:GLN:HB2	1.91	0.51
1:E:277:ALA:O	1:E:278:ALA:HB3	2.09	0.51
1:E:533:PRO:HB2	1:E:534:LYS:HE2	1.90	0.51
1:G:458:LEU:HD11	1:G:576:GLU:OE2	2.11	0.51
1:I:38:SER:O	1:I:72:MET:SD	2.69	0.51
1:I:88:LEU:CA	1:I:91:PRO:HD2	2.39	0.51
1:I:235:LYS:NZ	1:I:238:GLU:CG	2.73	0.51
1:I:1130:UNK:HA	1:I:1145:UNK:O	2.10	0.51
2:J:16:GLU:O	2:J:20:LYS:HD2	2.11	0.51
1:K:235:LYS:NZ	1:K:238:GLU:CG	2.73	0.51
1:K:301:LEU:HD11	1:K:305:LEU:HG	1.91	0.51
1:K:412:GLU:HB2	1:K:421:SER:O	2.10	0.51
1:M:170:VAL:O	1:M:174:MET:HE2	2.11	0.51
1:M:247:VAL:O	1:M:266:THR:HG21	2.06	0.51
1:M:277:ALA:O	1:M:278:ALA:HB3	2.09	0.51
1:M:465:GLN:NE2	1:M:502:ARG:NH1	2.59	0.51
2:N:58:LYS:O	2:N:60:PHE:N	2.43	0.51
1:O:109:GLN:O	1:O:110:ARG:C	2.51	0.51
1:O:149:ILE:O	1:O:265:THR:HA	2.10	0.51
1:O:235:LYS:NZ	1:O:238:GLU:CG	2.73	0.51
1:O:465:GLN:NE2	1:O:502:ARG:NH1	2.59	0.51
1:O:483:ARG:CZ	1:O:528:ILE:HA	2.40	0.51
1:Q:149:ILE:O	1:Q:265:THR:HA	2.10	0.51
1:Q:177:LYS:HE2	1:Q:237:TYR:CE1	2.45	0.51
1:Q:235:LYS:NZ	1:Q:238:GLU:CG	2.73	0.51
1:Q:247:VAL:CG2	1:Q:264:LEU:CD1	2.89	0.51
1:Q:359:VAL:HG13	1:Q:360:LEU:N	2.25	0.51
1:U:87:PHE:CE1	1:U:88:LEU:CD1	2.93	0.51
1:U:195:MET:HE1	1:U:198:LYS:NZ	2.25	0.51
1:U:301:LEU:HD11	1:U:305:LEU:HG	1.91	0.51
1:U:371:ARG:HG3	1:U:389:ILE:CD1	2.30	0.51
1:W:32:VAL:O	1:W:45:ILE:HD11	2.09	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:W:84:ASN:OD1	1:W:85:TYR:CG	2.62	0.51
1:W:177:LYS:HE2	1:W:237:TYR:CE1	2.45	0.51
1:W:188:SER:N	1:W:191:THR:CG2	2.73	0.51
1:W:256:PHE:O	1:W:258:LEU:HD22	2.10	0.51
1:Y:149:ILE:O	1:Y:265:THR:HA	2.10	0.51
1:Y:247:VAL:CG2	1:Y:264:LEU:CD1	2.89	0.51
1:a:149:ILE:O	1:a:265:THR:HA	2.10	0.51
1:a:166:LEU:CD2	1:a:167:SER:N	2.73	0.51
1:a:177:LYS:HE2	1:a:237:TYR:CE1	2.45	0.51
1:a:235:LYS:NZ	1:a:238:GLU:CG	2.73	0.51
1:c:465:GLN:NE2	1:c:502:ARG:NH1	2.59	0.51
1:e:245:LEU:HD23	1:e:265:THR:CG2	2.40	0.51
1:A:360:LEU:CD1	1:A:365:TYR:CB	2.69	0.51
1:A:458:LEU:HD11	1:A:576:GLU:OE2	2.11	0.51
2:B:16:GLU:O	2:B:20:LYS:HD2	2.11	0.51
1:C:84:ASN:OD1	1:C:85:TYR:CG	2.62	0.51
1:C:149:ILE:O	1:C:265:THR:HA	2.10	0.51
1:C:235:LYS:HE3	1:C:235:LYS:HA	1.87	0.51
1:C:305:LEU:HD13	1:C:305:LEU:C	2.34	0.51
1:C:406:HIS:HA	1:C:411:VAL:HG12	1.90	0.51
1:E:40:LEU:CD2	1:E:40:LEU:N	2.73	0.51
1:E:87:PHE:CE1	1:E:88:LEU:CD1	2.93	0.51
1:E:134:LEU:HB3	1:E:164:VAL:HG11	1.92	0.51
1:E:369:PHE:CE2	1:E:410:LEU:HD21	2.45	0.51
2:F:43:ILE:CG1	2:F:89:LEU:CD2	2.89	0.51
1:G:38:SER:O	1:G:72:MET:SD	2.69	0.51
1:G:275:LEU:N	1:G:275:LEU:CD1	2.73	0.51
1:I:10:TYR:HE1	1:I:107:ILE:HG21	1.73	0.51
1:I:82:ARG:CG	1:I:82:ARG:NH1	2.73	0.51
1:I:87:PHE:HD1	1:I:88:LEU:N	2.07	0.51
1:I:458:LEU:HD11	1:I:576:GLU:OE2	2.11	0.51
1:K:245:LEU:HD23	1:K:265:THR:CG2	2.40	0.51
1:K:449:ILE:C	1:K:449:ILE:HD13	2.36	0.51
1:K:483:ARG:HG3	1:K:487:PHE:CE1	2.46	0.51
2:L:58:LYS:O	2:L:60:PHE:N	2.43	0.51
1:M:138:LEU:HD21	1:M:170:VAL:HG11	1.78	0.51
1:M:301:LEU:HD11	1:M:305:LEU:HG	1.91	0.51
1:M:557:LYS:O	1:M:559:THR:N	2.44	0.51
1:O:166:LEU:CD2	1:O:167:SER:N	2.73	0.51
1:Q:188:SER:N	1:Q:191:THR:CG2	2.73	0.51
1:Q:242:LEU:HD23	1:Q:262:ILE:CB	2.39	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Q:465:GLN:NE2	1:Q:502:ARG:NH1	2.59	0.51
1:S:38:SER:O	1:S:72:MET:SD	2.69	0.51
1:S:245:LEU:HD23	1:S:265:THR:CG2	2.40	0.51
1:S:359:VAL:HG13	1:S:360:LEU:N	2.25	0.51
1:U:48:ILE:C	1:U:50:MET:N	2.66	0.51
1:U:87:PHE:HD1	1:U:88:LEU:N	2.07	0.51
2:V:43:ILE:CG1	2:V:89:LEU:CD2	2.89	0.51
1:W:149:ILE:O	1:W:265:THR:HA	2.10	0.51
1:W:233:LYS:CD	1:W:233:LYS:N	2.73	0.51
1:W:305:LEU:HD13	1:W:305:LEU:C	2.34	0.51
1:Y:82:ARG:CG	1:Y:82:ARG:NH1	2.73	0.51
1:Y:87:PHE:CE2	2:Z:83:GLY:HA3	2.33	0.51
1:Y:177:LYS:HE2	1:Y:237:TYR:CE1	2.45	0.51
1:Y:188:SER:N	1:Y:191:THR:CG2	2.73	0.51
1:Y:306:ASP:C	1:Y:307:CYS:SG	2.94	0.51
1:Y:410:LEU:CG	1:Y:423:PRO:CD	2.47	0.51
1:Y:458:LEU:HD11	1:Y:576:GLU:OE2	2.11	0.51
1:Y:465:GLN:NE2	1:Y:502:ARG:NH1	2.59	0.51
1:c:195:MET:HE1	1:c:198:LYS:NZ	2.25	0.51
2:d:58:LYS:O	2:d:60:PHE:N	2.43	0.51
1:e:87:PHE:CE1	1:e:88:LEU:CD1	2.93	0.51
1:e:235:LYS:NZ	1:e:238:GLU:CG	2.73	0.51
1:e:301:LEU:HD11	1:e:305:LEU:HG	1.91	0.51
1:e:449:ILE:HD13	1:e:449:ILE:C	2.36	0.51
1:e:483:ARG:HG3	1:e:487:PHE:CE1	2.46	0.51
1:A:65:LEU:HD22	1:A:76:PHE:CD2	2.46	0.51
1:A:257:ASN:O	1:A:258:LEU:HD13	2.09	0.51
1:A:449:ILE:HD13	1:A:449:ILE:C	2.36	0.51
1:C:233:LYS:CD	1:C:233:LYS:N	2.73	0.51
1:E:235:LYS:CE	1:E:235:LYS:CA	2.85	0.51
1:E:483:ARG:HG3	1:E:487:PHE:CE1	2.46	0.51
1:G:183:LEU:HB3	1:G:186:CYS:SG	2.51	0.51
1:G:216:ASN:HB2	1:G:219:LEU:CB	2.39	0.51
1:G:245:LEU:HD23	1:G:265:THR:CG2	2.40	0.51
2:H:43:ILE:CG1	2:H:89:LEU:CD2	2.89	0.51
1:I:233:LYS:CD	1:I:233:LYS:N	2.73	0.51
1:I:257:ASN:O	1:I:258:LEU:HD13	2.09	0.51
1:I:449:ILE:HD13	1:I:449:ILE:C	2.36	0.51
1:I:483:ARG:HG3	1:I:487:PHE:CE1	2.46	0.51
1:K:275:LEU:N	1:K:275:LEU:CD1	2.73	0.51
1:K:359:VAL:HG13	1:K:360:LEU:N	2.25	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:L:16:GLU:O	2:L:20:LYS:HD2	2.10	0.51
1:M:15:ILE:HG21	1:M:95:GLU:HB3	1.78	0.51
1:M:195:MET:HE1	1:M:198:LYS:NZ	2.25	0.51
1:M:247:VAL:CG2	1:M:264:LEU:CD1	2.89	0.51
1:M:483:ARG:HG3	1:M:487:PHE:CE1	2.46	0.51
2:N:49:LEU:HD13	2:N:53:GLN:HB2	1.91	0.51
1:Q:82:ARG:CG	1:Q:82:ARG:NH1	2.73	0.51
1:Q:306:ASP:C	1:Q:307:CYS:SG	2.94	0.51
1:Q:412:GLU:HB2	1:Q:421:SER:O	2.10	0.51
1:Q:458:LEU:HD11	1:Q:576:GLU:OE2	2.11	0.51
1:Q:518:LEU:HD21	1:Q:646:UNK:HA	1.86	0.51
1:S:183:LEU:HB3	1:S:186:CYS:SG	2.51	0.51
1:S:216:ASN:HB2	1:S:219:LEU:CB	2.39	0.51
2:T:43:ILE:CG1	2:T:89:LEU:CD2	2.89	0.51
1:U:40:LEU:CD2	1:U:40:LEU:N	2.73	0.51
1:U:134:LEU:HB3	1:U:164:VAL:HG11	1.92	0.51
1:U:165:CYS:HG	1:U:180:TRP:HZ2	1.57	0.51
1:U:170:VAL:O	1:U:174:MET:HE2	2.11	0.51
1:U:235:LYS:CE	1:U:235:LYS:CA	2.85	0.51
1:U:245:LEU:HD23	1:U:265:THR:CG2	2.40	0.51
1:U:369:PHE:CE2	1:U:410:LEU:HD21	2.45	0.51
1:U:483:ARG:HG3	1:U:487:PHE:CE1	2.46	0.51
1:W:257:ASN:O	1:W:258:LEU:HD13	2.09	0.51
1:W:371:ARG:HG3	1:W:389:ILE:CD1	2.30	0.51
2:X:35:ALA:HB1	2:X:49:LEU:HD11	1.92	0.51
2:X:49:LEU:HD13	2:X:53:GLN:HB2	1.91	0.51
1:a:458:LEU:HD11	1:a:576:GLU:OE2	2.11	0.51
1:c:192:VAL:HG23	1:c:221:ILE:CD1	2.30	0.51
1:c:247:VAL:CG2	1:c:264:LEU:CD1	2.89	0.51
1:c:277:ALA:O	1:c:278:ALA:HB3	2.09	0.51
1:c:301:LEU:HD11	1:c:305:LEU:HG	1.91	0.51
1:c:404:LYS:HE2	1:c:404:LYS:CA	2.41	0.51
1:c:557:LYS:O	1:c:559:THR:N	2.44	0.51
1:e:412:GLU:HB2	1:e:421:SER:O	2.10	0.51
1:e:465:GLN:NE2	1:e:502:ARG:NH1	2.59	0.51
2:f:16:GLU:O	2:f:20:LYS:HD2	2.10	0.51
2:f:58:LYS:O	2:f:60:PHE:N	2.43	0.51
1:A:483:ARG:HG3	1:A:487:PHE:CE1	2.46	0.51
1:C:245:LEU:HD23	1:C:265:THR:CG2	2.40	0.51
1:C:483:ARG:HG3	1:C:487:PHE:CE1	2.46	0.51
1:E:87:PHE:HD1	1:E:88:LEU:N	2.07	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:170:VAL:O	1:E:174:MET:HE2	2.11	0.51
1:E:245:LEU:HD23	1:E:265:THR:CG2	2.40	0.51
1:E:458:LEU:HD11	1:E:576:GLU:OE2	2.11	0.51
2:F:43:ILE:HG22	2:F:44:LEU:N	2.26	0.51
2:F:58:LYS:C	2:F:60:PHE:N	2.69	0.51
1:G:109:GLN:O	1:G:110:ARG:C	2.51	0.51
1:G:247:VAL:CG2	1:G:264:LEU:CD1	2.89	0.51
1:G:359:VAL:HG13	1:G:360:LEU:N	2.25	0.51
1:I:65:LEU:HD22	1:I:76:PHE:CD2	2.46	0.51
1:I:369:PHE:CE2	1:I:410:LEU:HD21	2.45	0.51
1:K:38:SER:O	1:K:72:MET:SD	2.69	0.51
1:K:87:PHE:CE1	1:K:88:LEU:CD1	2.93	0.51
1:K:465:GLN:NE2	1:K:502:ARG:NH1	2.59	0.51
1:K:557:LYS:O	1:K:559:THR:N	2.44	0.51
1:M:134:LEU:HB3	1:M:164:VAL:HG11	1.92	0.51
1:M:231:LEU:HD23	1:M:237:TYR:HE2	1.68	0.51
1:M:404:LYS:HE2	1:M:404:LYS:CA	2.41	0.51
2:N:16:GLU:O	2:N:20:LYS:HD2	2.11	0.51
1:Q:87:PHE:CE2	2:R:83:GLY:HA3	2.33	0.51
1:Q:275:LEU:N	1:Q:275:LEU:CD1	2.73	0.51
1:Q:352:ILE:CD1	1:Q:352:ILE:N	2.73	0.51
1:Q:427:LEU:HD23	1:Q:428:GLU:N	2.26	0.51
1:S:257:ASN:O	1:S:258:LEU:HD13	2.09	0.51
1:S:275:LEU:N	1:S:275:LEU:CD1	2.73	0.51
1:S:369:PHE:CE2	1:S:410:LEU:HD21	2.45	0.51
1:U:458:LEU:HD11	1:U:576:GLU:OE2	2.11	0.51
2:V:43:ILE:HG22	2:V:44:LEU:N	2.26	0.51
1:W:88:LEU:CA	1:W:91:PRO:HD2	2.39	0.51
1:W:200:LEU:HD21	1:W:207:TRP:HD1	1.76	0.51
1:W:235:LYS:HE3	1:W:235:LYS:HA	1.87	0.51
1:W:406:HIS:HA	1:W:411:VAL:HG12	1.90	0.51
1:W:483:ARG:HG3	1:W:487:PHE:CE1	2.46	0.51
1:Y:65:LEU:CD1	1:Y:73:VAL:HG22	2.37	0.51
1:Y:352:ILE:CD1	1:Y:352:ILE:N	2.73	0.51
1:Y:427:LEU:HD23	1:Y:428:GLU:N	2.26	0.51
1:a:109:GLN:O	1:a:110:ARG:C	2.51	0.51
1:a:557:LYS:O	1:a:559:THR:N	2.44	0.51
1:c:235:LYS:NZ	1:c:238:GLU:CG	2.73	0.51
1:c:275:LEU:N	1:c:275:LEU:CD1	2.73	0.51
1:c:305:LEU:HD13	1:c:305:LEU:C	2.34	0.51
1:c:369:PHE:CE2	1:c:410:LEU:HD21	2.45	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:c:483:ARG:HG3	1:c:487:PHE:CE1	2.46	0.51
2:d:16:GLU:O	2:d:20:LYS:HD2	2.11	0.51
1:e:38:SER:O	1:e:72:MET:SD	2.69	0.51
1:e:275:LEU:N	1:e:275:LEU:CD1	2.73	0.51
1:e:404:LYS:HE2	1:e:404:LYS:CA	2.41	0.51
1:e:557:LYS:O	1:e:559:THR:N	2.44	0.51
1:e:1130:UNK:HA	1:e:1145:UNK:O	2.10	0.51
1:A:301:LEU:HD11	1:A:305:LEU:HG	1.91	0.51
1:A:369:PHE:CE2	1:A:410:LEU:HD21	2.45	0.51
1:C:183:LEU:HB3	1:C:186:CYS:SG	2.51	0.51
1:C:200:LEU:HD21	1:C:207:TRP:HD1	1.76	0.51
1:C:247:VAL:CG2	1:C:264:LEU:CD1	2.89	0.51
1:C:257:ASN:O	1:C:258:LEU:HD13	2.09	0.51
1:C:458:LEU:HD11	1:C:576:GLU:OE2	2.11	0.51
2:D:35:ALA:HB1	2:D:49:LEU:HD11	1.92	0.51
1:E:48:ILE:C	1:E:50:MET:N	2.66	0.51
1:E:165:CYS:HG	1:E:180:TRP:HZ2	1.57	0.51
1:E:410:LEU:CD2	1:E:427:LEU:HB2	2.40	0.51
1:E:427:LEU:HD23	1:E:428:GLU:N	2.26	0.51
1:G:257:ASN:O	1:G:258:LEU:HD13	2.09	0.51
1:G:301:LEU:HD11	1:G:305:LEU:HG	1.91	0.51
1:G:369:PHE:CE2	1:G:410:LEU:HD21	2.45	0.51
1:K:216:ASN:HB2	1:K:219:LEU:CB	2.39	0.51
1:K:404:LYS:HE2	1:K:404:LYS:CA	2.41	0.51
1:K:427:LEU:HD23	1:K:428:GLU:N	2.26	0.51
1:K:458:LEU:HD11	1:K:576:GLU:OE2	2.11	0.51
2:L:35:ALA:HB1	2:L:49:LEU:HD11	1.92	0.51
1:M:234:SER:HB3	1:M:236:PRO:CD	2.25	0.51
1:M:275:LEU:N	1:M:275:LEU:CD1	2.73	0.51
1:M:369:PHE:CE2	1:M:410:LEU:HD21	2.45	0.51
1:M:371:ARG:HG3	1:M:389:ILE:CD1	2.30	0.51
1:M:449:ILE:HD13	1:M:449:ILE:C	2.36	0.51
1:M:483:ARG:CZ	1:M:528:ILE:HA	2.40	0.51
1:O:458:LEU:HD11	1:O:576:GLU:OE2	2.11	0.51
1:O:557:LYS:O	1:O:559:THR:N	2.44	0.51
2:P:43:ILE:HG22	2:P:44:LEU:N	2.26	0.51
1:Q:192:VAL:HG23	1:Q:221:ILE:HD12	1.92	0.51
1:S:247:VAL:CG2	1:S:264:LEU:CD1	2.89	0.51
1:S:483:ARG:HG3	1:S:487:PHE:CE1	2.46	0.51
1:U:84:ASN:OD1	1:U:85:TYR:CG	2.62	0.51
1:U:352:ILE:CD1	1:U:352:ILE:N	2.73	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:U:427:LEU:HD23	1:U:428:GLU:N	2.26	0.51
2:V:58:LYS:C	2:V:60:PHE:N	2.69	0.51
1:W:183:LEU:HB3	1:W:186:CYS:SG	2.51	0.51
1:W:245:LEU:HD23	1:W:265:THR:CG2	2.40	0.51
1:W:247:VAL:CG2	1:W:264:LEU:CD1	2.89	0.51
1:W:458:LEU:HD11	1:W:576:GLU:OE2	2.11	0.51
1:W:483:ARG:CZ	1:W:528:ILE:HA	2.40	0.51
1:Y:41:SER:O	1:Y:45:ILE:N	2.38	0.51
1:Y:275:LEU:N	1:Y:275:LEU:CD1	2.73	0.51
1:Y:412:GLU:HB2	1:Y:421:SER:O	2.10	0.51
2:b:43:ILE:HG22	2:b:44:LEU:N	2.26	0.51
1:c:134:LEU:HB3	1:c:164:VAL:HG11	1.92	0.51
1:c:234:SER:HB3	1:c:236:PRO:CD	2.25	0.51
1:c:382:PRO:HG2	1:c:385:LEU:HD12	1.93	0.51
1:c:449:ILE:C	1:c:449:ILE:HD13	2.36	0.51
1:c:483:ARG:CZ	1:c:528:ILE:HA	2.40	0.51
2:d:49:LEU:HD13	2:d:53:GLN:HB2	1.91	0.51
1:e:15:ILE:HG21	1:e:95:GLU:HB3	1.78	0.51
1:e:216:ASN:HB2	1:e:219:LEU:CB	2.39	0.51
1:e:359:VAL:HG13	1:e:360:LEU:N	2.25	0.51
1:e:427:LEU:HD23	1:e:428:GLU:N	2.26	0.51
1:e:458:LEU:HD11	1:e:576:GLU:OE2	2.11	0.51
2:f:35:ALA:HB1	2:f:49:LEU:HD11	1.92	0.51
1:A:245:LEU:HD23	1:A:265:THR:CG2	2.40	0.51
2:B:35:ALA:HB1	2:B:49:LEU:HD11	1.92	0.51
1:C:38:SER:O	1:C:72:MET:SD	2.69	0.51
1:C:88:LEU:CA	1:C:91:PRO:HD2	2.39	0.51
1:C:253:TRP:C	1:C:255:ALA:N	2.67	0.51
1:C:465:GLN:NE2	1:C:502:ARG:NH1	2.59	0.51
1:C:483:ARG:CZ	1:C:528:ILE:HA	2.40	0.51
1:E:84:ASN:OD1	1:E:85:TYR:CG	2.62	0.51
1:E:183:LEU:HB3	1:E:186:CYS:SG	2.51	0.51
1:E:200:LEU:HD21	1:E:207:TRP:HD1	1.76	0.51
1:G:59:LEU:HD21	1:G:63:TRP:CZ2	2.46	0.51
1:G:166:LEU:CD2	1:G:167:SER:N	2.73	0.51
1:G:256:PHE:O	1:G:258:LEU:HD22	2.10	0.51
1:G:306:ASP:C	1:G:307:CYS:SG	2.94	0.51
1:G:483:ARG:HG3	1:G:487:PHE:CE1	2.46	0.51
1:I:301:LEU:HD11	1:I:305:LEU:HG	1.91	0.51
2:J:24:ILE:O	2:J:28:TRP:HD1	1.92	0.51
2:J:35:ALA:HB1	2:J:49:LEU:HD11	1.92	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:69:GLN:O	1:K:72:MET:HB2	2.09	0.51
1:K:151:GLY:C	1:K:286:ASP:OD2	2.54	0.51
1:K:369:PHE:CE2	1:K:410:LEU:HD21	2.45	0.51
1:K:1130:UNK:HA	1:K:1145:UNK:O	2.10	0.51
1:M:382:PRO:HG2	1:M:385:LEU:HD12	1.93	0.51
1:O:300:LEU:O	1:O:301:LEU:C	2.52	0.51
1:Q:170:VAL:O	1:Q:174:MET:HE2	2.11	0.51
1:Q:443:ILE:HG13	1:Q:478:ILE:HG22	1.93	0.51
1:S:59:LEU:HD21	1:S:63:TRP:CZ2	2.46	0.51
1:S:120:PHE:O	1:S:121:ALA:C	2.54	0.51
1:S:301:LEU:HD11	1:S:305:LEU:HG	1.91	0.51
1:S:353:ILE:HG21	1:S:426:TYR:CB	2.38	0.51
1:U:388:LEU:HD12	1:U:445:ASP:OD1	2.10	0.51
1:W:65:LEU:HD22	1:W:76:PHE:CD2	2.46	0.51
1:W:82:ARG:CG	1:W:82:ARG:NH1	2.72	0.51
1:Y:443:ILE:HG13	1:Y:478:ILE:HG22	1.93	0.51
1:a:388:LEU:HD12	1:a:445:ASP:OD1	2.10	0.51
1:a:427:LEU:HD23	1:a:428:GLU:N	2.26	0.51
1:a:492:LEU:HD12	1:a:577:ALA:HB2	1.91	0.51
1:c:902:UNK:C	1:c:904:UNK:N	2.69	0.51
1:e:369:PHE:CE2	1:e:410:LEU:HD21	2.45	0.51
1:A:360:LEU:CG	1:A:365:TYR:CB	2.48	0.51
2:B:24:ILE:O	2:B:28:TRP:HD1	1.92	0.51
2:B:43:ILE:HG22	2:B:44:LEU:N	2.26	0.51
2:B:43:ILE:CG1	2:B:89:LEU:CD2	2.89	0.51
1:C:65:LEU:HD22	1:C:76:PHE:CD2	2.46	0.51
1:C:243:VAL:CG1	1:C:263:LEU:HD23	2.41	0.51
1:E:352:ILE:CD1	1:E:352:ILE:N	2.73	0.51
1:E:404:LYS:HA	1:E:404:LYS:CE	2.40	0.51
1:G:449:ILE:C	1:G:449:ILE:HD13	2.36	0.51
2:H:58:LYS:C	2:H:60:PHE:H	2.19	0.51
1:I:183:LEU:HB3	1:I:186:CYS:SG	2.51	0.51
1:I:245:LEU:HD23	1:I:265:THR:CG2	2.40	0.51
1:I:247:VAL:CG2	1:I:264:LEU:CD1	2.89	0.51
1:K:65:LEU:HD22	1:K:76:PHE:CD2	2.46	0.51
1:M:65:LEU:HD22	1:M:76:PHE:CD2	2.46	0.51
1:M:300:LEU:O	1:M:301:LEU:C	2.52	0.51
1:M:411:VAL:N	1:M:423:PRO:CD	2.73	0.51
1:O:232:LEU:C	1:O:234:SER:N	2.57	0.51
1:O:233:LYS:CD	1:O:233:LYS:N	2.73	0.51
1:O:388:LEU:HD12	1:O:445:ASP:OD1	2.10	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:O:427:LEU:HD23	1:O:428:GLU:N	2.26	0.51
2:P:58:LYS:C	2:P:60:PHE:H	2.19	0.51
1:Q:65:LEU:CD1	1:Q:73:VAL:HG22	2.37	0.51
1:Q:183:LEU:HB3	1:Q:186:CYS:SG	2.51	0.51
1:S:109:GLN:O	1:S:110:ARG:C	2.51	0.51
1:S:166:LEU:CD2	1:S:167:SER:N	2.73	0.51
1:S:256:PHE:O	1:S:258:LEU:HD22	2.10	0.51
1:S:306:ASP:C	1:S:307:CYS:SG	2.94	0.51
1:S:449:ILE:C	1:S:449:ILE:HD13	2.36	0.51
2:T:58:LYS:C	2:T:60:PHE:H	2.19	0.51
1:U:410:LEU:CD2	1:U:427:LEU:HB2	2.40	0.51
1:U:557:LYS:O	1:U:559:THR:N	2.44	0.51
1:W:15:ILE:HG21	1:W:95:GLU:HB3	1.78	0.51
1:W:38:SER:O	1:W:72:MET:SD	2.69	0.51
1:W:151:GLY:C	1:W:286:ASP:OD2	2.54	0.51
1:W:242:LEU:HD23	1:W:262:ILE:CB	2.39	0.51
1:W:243:VAL:CG1	1:W:263:LEU:HD23	2.41	0.51
1:W:353:ILE:HG21	1:W:426:TYR:CB	2.38	0.51
1:W:465:GLN:NE2	1:W:502:ARG:NH1	2.59	0.51
2:X:16:GLU:O	2:X:20:LYS:HD2	2.10	0.51
1:Y:192:VAL:HG23	1:Y:221:ILE:HD12	1.92	0.51
1:a:208:THR:O	1:a:208:THR:OG1	2.26	0.51
1:a:233:LYS:CD	1:a:233:LYS:N	2.73	0.51
1:a:353:ILE:HG21	1:a:426:TYR:CB	2.38	0.51
1:c:59:LEU:HD21	1:c:63:TRP:CZ2	2.46	0.51
1:e:151:GLY:C	1:e:286:ASP:OD2	2.54	0.51
1:e:257:ASN:O	1:e:258:LEU:HD13	2.09	0.51
1:A:39:ILE:HG23	1:A:40:LEU:N	2.27	0.50
1:A:247:VAL:CG2	1:A:264:LEU:CD1	2.89	0.50
1:C:82:ARG:CG	1:C:82:ARG:NH1	2.72	0.50
1:C:151:GLY:C	1:C:286:ASP:OD2	2.54	0.50
1:C:258:LEU:HD13	1:C:258:LEU:N	2.26	0.50
2:D:16:GLU:O	2:D:20:LYS:HD2	2.10	0.50
2:D:58:LYS:C	2:D:60:PHE:H	2.19	0.50
1:E:109:GLN:O	1:E:110:ARG:C	2.51	0.50
1:E:300:LEU:O	1:E:301:LEU:C	2.52	0.50
1:E:388:LEU:HD12	1:E:445:ASP:OD1	2.10	0.50
1:E:557:LYS:O	1:E:559:THR:N	2.44	0.50
1:G:120:PHE:O	1:G:121:ALA:C	2.54	0.50
1:G:353:ILE:HG21	1:G:426:TYR:CB	2.38	0.50
1:G:483:ARG:CZ	1:G:528:ILE:HA	2.40	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:557:LYS:O	1:G:559:THR:N	2.44	0.50
1:I:39:ILE:HG23	1:I:40:LEU:N	2.27	0.50
1:I:40:LEU:CD2	1:I:40:LEU:N	2.73	0.50
2:J:43:ILE:HG22	2:J:44:LEU:N	2.26	0.50
2:J:43:ILE:CG1	2:J:89:LEU:CD2	2.89	0.50
2:J:81:GLN:HA	2:J:81:GLN:NE2	2.08	0.50
1:K:443:ILE:HG13	1:K:478:ILE:HG22	1.93	0.50
1:K:492:LEU:HD12	1:K:577:ALA:HB2	1.91	0.50
1:M:59:LEU:HD21	1:M:63:TRP:CZ2	2.46	0.50
1:M:151:GLY:C	1:M:286:ASP:OD2	2.54	0.50
1:M:279:THR:C	1:M:280:THR:HG23	2.35	0.50
2:N:58:LYS:C	2:N:60:PHE:H	2.19	0.50
1:O:59:LEU:HD21	1:O:63:TRP:CZ2	2.46	0.50
1:O:492:LEU:HD12	1:O:577:ALA:HB2	1.91	0.50
1:Q:151:GLY:C	1:Q:286:ASP:OD2	2.54	0.50
1:Q:279:THR:C	1:Q:280:THR:HG23	2.35	0.50
1:Q:369:PHE:CE2	1:Q:410:LEU:HD21	2.45	0.50
2:R:43:ILE:HG22	2:R:44:LEU:N	2.26	0.50
2:R:43:ILE:CG1	2:R:89:LEU:CD2	2.89	0.50
1:S:39:ILE:HG23	1:S:40:LEU:N	2.27	0.50
1:S:301:LEU:O	1:S:302:LEU:C	2.53	0.50
1:S:557:LYS:O	1:S:559:THR:N	2.44	0.50
2:T:16:GLU:O	2:T:20:LYS:HD2	2.10	0.50
1:U:109:GLN:O	1:U:110:ARG:C	2.51	0.50
1:U:183:LEU:HB3	1:U:186:CYS:SG	2.51	0.50
1:U:192:VAL:HG11	1:U:221:ILE:HD11	1.88	0.50
1:U:200:LEU:HD21	1:U:207:TRP:HD1	1.76	0.50
1:U:247:VAL:O	1:U:266:THR:HG21	2.06	0.50
1:U:300:LEU:O	1:U:301:LEU:C	2.52	0.50
1:W:253:TRP:C	1:W:255:ALA:N	2.67	0.50
1:W:258:LEU:HD13	1:W:258:LEU:N	2.26	0.50
1:W:1130:UNK:HA	1:W:1145:UNK:O	2.10	0.50
2:X:58:LYS:C	2:X:60:PHE:H	2.19	0.50
1:Y:129:GLN:CB	1:Y:130:PRO:CD	2.84	0.50
1:Y:151:GLY:C	1:Y:286:ASP:OD2	2.54	0.50
1:Y:170:VAL:O	1:Y:174:MET:HE2	2.11	0.50
1:Y:279:THR:C	1:Y:280:THR:HG23	2.35	0.50
2:Z:35:ALA:HB1	2:Z:49:LEU:HD11	1.92	0.50
2:Z:43:ILE:CG1	2:Z:89:LEU:CD2	2.89	0.50
1:a:59:LEU:HD21	1:a:63:TRP:CZ2	2.46	0.50
1:a:65:LEU:CD1	1:a:73:VAL:HG22	2.37	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:a:300:LEU:O	1:a:301:LEU:C	2.52	0.50
1:a:443:ILE:HG13	1:a:478:ILE:HG22	1.93	0.50
2:b:58:LYS:C	2:b:60:PHE:H	2.19	0.50
1:c:15:ILE:HG21	1:c:95:GLU:HB3	1.78	0.50
1:c:65:LEU:HD22	1:c:76:PHE:CD2	2.46	0.50
1:c:151:GLY:C	1:c:286:ASP:OD2	2.54	0.50
1:c:231:LEU:HD23	1:c:237:TYR:HE2	1.68	0.50
1:c:279:THR:C	1:c:280:THR:HG23	2.35	0.50
1:c:300:LEU:HD23	1:c:324:LEU:HD23	1.93	0.50
2:d:58:LYS:C	2:d:60:PHE:H	2.19	0.50
1:e:65:LEU:HD22	1:e:76:PHE:CD2	2.46	0.50
1:e:69:GLN:O	1:e:72:MET:HB2	2.09	0.50
1:e:300:LEU:HD23	1:e:324:LEU:HD23	1.93	0.50
1:A:258:LEU:HD13	1:A:258:LEU:N	2.26	0.50
1:C:242:LEU:HD23	1:C:262:ILE:CB	2.39	0.50
1:C:1130:UNK:HA	1:C:1145:UNK:O	2.10	0.50
2:D:43:ILE:CG1	2:D:89:LEU:CD2	2.89	0.50
1:E:247:VAL:CG2	1:E:264:LEU:CD1	2.89	0.50
1:E:467:PHE:O	1:E:471:ILE:HG22	2.12	0.50
2:F:16:GLU:O	2:F:20:LYS:HD2	2.11	0.50
2:F:35:ALA:HB1	2:F:49:LEU:HD11	1.92	0.50
1:G:39:ILE:HG23	1:G:40:LEU:N	2.27	0.50
2:H:16:GLU:O	2:H:20:LYS:HD2	2.10	0.50
1:I:151:GLY:C	1:I:286:ASP:OD2	2.54	0.50
1:I:258:LEU:HD13	1:I:258:LEU:N	2.26	0.50
1:I:360:LEU:HD11	1:I:365:TYR:HB3	1.83	0.50
1:K:39:ILE:HG23	1:K:40:LEU:N	2.27	0.50
1:K:257:ASN:O	1:K:258:LEU:HD13	2.09	0.50
1:K:300:LEU:HD23	1:K:324:LEU:HD23	1.93	0.50
1:K:371:ARG:HG3	1:K:389:ILE:CD1	2.30	0.50
1:K:411:VAL:N	1:K:422:ILE:HG23	2.18	0.50
1:M:300:LEU:HD23	1:M:324:LEU:HD23	1.93	0.50
1:M:902:UNK:C	1:M:904:UNK:N	2.69	0.50
1:M:1130:UNK:HA	1:M:1145:UNK:O	2.10	0.50
1:O:151:GLY:C	1:O:286:ASP:OD2	2.54	0.50
1:O:353:ILE:HG21	1:O:426:TYR:CB	2.38	0.50
1:O:443:ILE:HG13	1:O:478:ILE:HG22	1.93	0.50
1:O:449:ILE:C	1:O:449:ILE:HD13	2.36	0.50
1:O:1187:UNK:O	1:O:1188:UNK:C	2.59	0.50
1:Q:35:MET:HE3	1:Q:80:VAL:HG11	1.94	0.50
1:Q:41:SER:O	1:Q:45:ILE:N	2.38	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Q:84:ASN:OD1	1:Q:85:TYR:CG	2.62	0.50
1:Q:134:LEU:HB3	1:Q:164:VAL:HG11	1.92	0.50
1:Q:300:LEU:O	1:Q:301:LEU:C	2.52	0.50
1:Q:488:ARG:CG	1:Q:488:ARG:NH1	2.65	0.50
1:S:483:ARG:CZ	1:S:528:ILE:HA	2.40	0.50
1:U:59:LEU:HD21	1:U:63:TRP:CZ2	2.46	0.50
1:U:151:GLY:C	1:U:286:ASP:OD2	2.54	0.50
1:U:152:VAL:N	1:U:286:ASP:OD2	2.44	0.50
1:U:247:VAL:CG2	1:U:264:LEU:CD1	2.89	0.50
1:U:353:ILE:HG21	1:U:426:TYR:CB	2.38	0.50
1:U:404:LYS:HA	1:U:404:LYS:CE	2.40	0.50
1:U:467:PHE:O	1:U:471:ILE:HG22	2.12	0.50
2:V:35:ALA:HB1	2:V:49:LEU:HD11	1.92	0.50
1:Y:35:MET:HE3	1:Y:80:VAL:HG11	1.94	0.50
1:Y:39:ILE:HG23	1:Y:40:LEU:N	2.27	0.50
1:Y:84:ASN:OD1	1:Y:85:TYR:CG	2.62	0.50
1:Y:134:LEU:HB3	1:Y:164:VAL:HG11	1.92	0.50
1:Y:183:LEU:HB3	1:Y:186:CYS:SG	2.51	0.50
1:Y:369:PHE:CE2	1:Y:410:LEU:HD21	2.45	0.50
1:Y:382:PRO:HG2	1:Y:385:LEU:HD12	1.93	0.50
2:Z:43:ILE:HG22	2:Z:44:LEU:N	2.26	0.50
1:a:151:GLY:C	1:a:286:ASP:OD2	2.54	0.50
1:a:449:ILE:HD13	1:a:449:ILE:C	2.36	0.50
1:a:1187:UNK:O	1:a:1188:UNK:C	2.59	0.50
1:c:243:VAL:CG1	1:c:263:LEU:HD23	2.41	0.50
1:c:300:LEU:O	1:c:301:LEU:C	2.52	0.50
1:c:371:ARG:HG3	1:c:389:ILE:CD1	2.30	0.50
1:c:411:VAL:N	1:c:423:PRO:CD	2.73	0.50
1:e:39:ILE:HG23	1:e:40:LEU:N	2.27	0.50
1:e:443:ILE:HG13	1:e:478:ILE:HG22	1.93	0.50
1:A:40:LEU:CD2	1:A:40:LEU:N	2.73	0.50
1:A:151:GLY:C	1:A:286:ASP:OD2	2.54	0.50
1:A:177:LYS:CE	1:A:237:TYR:HE1	2.25	0.50
1:A:183:LEU:HB3	1:A:186:CYS:SG	2.51	0.50
1:A:275:LEU:HB3	1:A:280:THR:HG21	1.94	0.50
1:A:557:LYS:O	1:A:559:THR:N	2.44	0.50
1:C:300:LEU:O	1:C:301:LEU:C	2.52	0.50
1:C:352:ILE:CD1	1:C:352:ILE:N	2.73	0.50
1:C:353:ILE:HG21	1:C:426:TYR:CB	2.38	0.50
1:C:467:PHE:O	1:C:471:ILE:HG22	2.12	0.50
1:C:911:UNK:O	1:C:912:UNK:C	2.59	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:59:LEU:HD21	1:E:63:TRP:CZ2	2.46	0.50
1:E:152:VAL:N	1:E:286:ASP:OD2	2.44	0.50
1:G:76:PHE:C	1:G:76:PHE:CD1	2.88	0.50
1:G:177:LYS:CE	1:G:237:TYR:HE1	2.25	0.50
1:I:275:LEU:HB3	1:I:280:THR:HG21	1.94	0.50
1:I:557:LYS:O	1:I:559:THR:N	2.44	0.50
1:K:300:LEU:O	1:K:301:LEU:C	2.52	0.50
1:K:301:LEU:O	1:K:302:LEU:C	2.53	0.50
2:L:43:ILE:CG1	2:L:89:LEU:CD2	2.89	0.50
1:M:95:GLU:C	1:M:98:GLN:H	2.20	0.50
1:M:243:VAL:CG1	1:M:263:LEU:HD23	2.41	0.50
1:O:134:LEU:HB3	1:O:164:VAL:HG11	1.92	0.50
1:O:152:VAL:N	1:O:286:ASP:OD2	2.44	0.50
1:O:369:PHE:CZ	1:O:410:LEU:HD21	2.45	0.50
1:Q:39:ILE:HG23	1:Q:40:LEU:N	2.27	0.50
1:Q:129:GLN:CB	1:Q:130:PRO:CD	2.84	0.50
1:Q:382:PRO:HG2	1:Q:385:LEU:HD12	1.93	0.50
1:Q:1187:UNK:O	1:Q:1188:UNK:C	2.59	0.50
2:R:35:ALA:HB1	2:R:49:LEU:HD11	1.92	0.50
2:R:58:LYS:C	2:R:60:PHE:H	2.19	0.50
1:S:76:PHE:C	1:S:76:PHE:CD1	2.88	0.50
1:S:177:LYS:CE	1:S:237:TYR:HE1	2.25	0.50
2:T:24:ILE:O	2:T:28:TRP:HD1	1.92	0.50
1:U:65:LEU:HD22	1:U:76:PHE:CD2	2.46	0.50
2:V:16:GLU:O	2:V:20:LYS:HD2	2.11	0.50
1:W:467:PHE:O	1:W:471:ILE:HG22	2.12	0.50
1:W:557:LYS:O	1:W:559:THR:N	2.44	0.50
1:W:911:UNK:O	1:W:912:UNK:C	2.59	0.50
2:X:37:GLU:HA	2:X:40:GLN:HB3	1.94	0.50
2:X:43:ILE:CG1	2:X:89:LEU:CD2	2.89	0.50
1:Y:1187:UNK:O	1:Y:1188:UNK:C	2.59	0.50
2:Z:58:LYS:C	2:Z:60:PHE:H	2.19	0.50
1:a:134:LEU:HB3	1:a:164:VAL:HG11	1.92	0.50
1:a:152:VAL:N	1:a:286:ASP:OD2	2.44	0.50
1:a:247:VAL:O	1:a:266:THR:HG21	2.06	0.50
1:a:253:TRP:C	1:a:255:ALA:N	2.67	0.50
1:a:369:PHE:CZ	1:a:410:LEU:HD21	2.45	0.50
1:a:369:PHE:CE2	1:a:410:LEU:HD21	2.45	0.50
1:a:410:LEU:HA	1:a:423:PRO:HG3	1.84	0.50
1:c:38:SER:O	1:c:72:MET:SD	2.69	0.50
1:c:95:GLU:C	1:c:98:GLN:H	2.20	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:c:1130:UNK:HA	1:c:1145:UNK:O	2.10	0.50
1:e:301:LEU:O	1:e:302:LEU:C	2.53	0.50
1:e:492:LEU:HD12	1:e:577:ALA:HB2	1.91	0.50
2:f:43:ILE:CG1	2:f:89:LEU:CD2	2.89	0.50
1:A:76:PHE:C	1:A:76:PHE:CD1	2.88	0.50
1:A:360:LEU:HD11	1:A:365:TYR:HB3	1.83	0.50
2:B:58:LYS:C	2:B:60:PHE:H	2.19	0.50
1:C:109:GLN:O	1:C:110:ARG:C	2.51	0.50
1:C:382:PRO:HG2	1:C:385:LEU:HD12	1.93	0.50
1:C:410:LEU:CD1	1:C:411:VAL:H	2.06	0.50
2:D:37:GLU:HA	2:D:40:GLN:HB3	1.94	0.50
1:E:65:LEU:HD22	1:E:76:PHE:CD2	2.46	0.50
1:E:151:GLY:C	1:E:286:ASP:OD2	2.54	0.50
1:G:65:LEU:HD22	1:G:76:PHE:CD2	2.46	0.50
1:G:152:VAL:N	1:G:286:ASP:OD2	2.44	0.50
1:I:76:PHE:CD1	1:I:76:PHE:C	2.88	0.50
1:I:177:LYS:CE	1:I:237:TYR:HE1	2.25	0.50
1:K:15:ILE:HG21	1:K:95:GLU:HB3	1.78	0.50
1:K:59:LEU:HD21	1:K:63:TRP:CZ2	2.46	0.50
1:K:467:PHE:O	1:K:471:ILE:HG22	2.12	0.50
2:L:81:GLN:HA	2:L:81:GLN:NE2	2.08	0.50
1:M:38:SER:O	1:M:72:MET:SD	2.69	0.50
1:M:39:ILE:HG23	1:M:40:LEU:N	2.27	0.50
1:M:46:ASP:O	1:M:50:MET:N	2.45	0.50
1:M:427:LEU:HD23	1:M:428:GLU:N	2.26	0.50
1:M:488:ARG:HH11	1:M:488:ARG:HG3	1.75	0.50
2:N:43:ILE:CG1	2:N:89:LEU:CD2	2.89	0.50
1:O:192:VAL:HG23	1:O:221:ILE:HD12	1.92	0.50
1:O:340:ASN:HB3	1:O:344:VAL:CB	2.41	0.50
1:O:360:LEU:HD11	1:O:365:TYR:HB3	1.83	0.50
1:O:369:PHE:CE2	1:O:410:LEU:HD21	2.45	0.50
1:O:382:PRO:HG2	1:O:385:LEU:HD12	1.93	0.50
1:O:410:LEU:HA	1:O:423:PRO:HG3	1.84	0.50
1:Q:38:SER:O	1:Q:72:MET:SD	2.69	0.50
1:Q:59:LEU:HD21	1:Q:63:TRP:CZ2	2.46	0.50
1:Q:95:GLU:C	1:Q:98:GLN:H	2.20	0.50
1:S:152:VAL:N	1:S:286:ASP:OD2	2.44	0.50
1:S:200:LEU:HD21	1:S:207:TRP:HD1	1.76	0.50
1:S:258:LEU:HD13	1:S:258:LEU:N	2.26	0.50
1:W:152:VAL:N	1:W:286:ASP:OD2	2.44	0.50
1:W:352:ILE:CD1	1:W:352:ILE:N	2.73	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Y:38:SER:O	1:Y:72:MET:SD	2.69	0.50
1:Y:95:GLU:C	1:Y:98:GLN:H	2.20	0.50
1:Y:300:LEU:O	1:Y:301:LEU:C	2.52	0.50
1:Y:353:ILE:HG21	1:Y:426:TYR:CB	2.38	0.50
1:Y:369:PHE:CZ	1:Y:410:LEU:HD21	2.45	0.50
1:Y:911:UNK:O	1:Y:912:UNK:C	2.59	0.50
1:a:300:LEU:HD23	1:a:324:LEU:HD23	1.93	0.50
1:a:340:ASN:HB3	1:a:344:VAL:CB	2.41	0.50
1:c:46:ASP:O	1:c:50:MET:N	2.45	0.50
1:c:488:ARG:HH11	1:c:488:ARG:HG3	1.75	0.50
1:e:10:TYR:HE1	1:e:107:ILE:HG21	1.73	0.50
1:e:35:MET:HE3	1:e:39:ILE:HD13	1.89	0.50
1:e:59:LEU:HD21	1:e:63:TRP:CZ2	2.46	0.50
1:e:183:LEU:HB3	1:e:186:CYS:SG	2.51	0.50
1:e:247:VAL:CG2	1:e:264:LEU:CD1	2.89	0.50
1:e:467:PHE:O	1:e:471:ILE:HG22	2.12	0.50
1:A:300:LEU:HD23	1:A:324:LEU:HD23	1.93	0.50
1:A:427:LEU:HD23	1:A:428:GLU:N	2.26	0.50
2:B:81:GLN:HA	2:B:81:GLN:NE2	2.08	0.50
1:C:39:ILE:HG23	1:C:40:LEU:N	2.27	0.50
1:C:95:GLU:C	1:C:98:GLN:H	2.20	0.50
1:C:152:VAL:N	1:C:286:ASP:OD2	2.44	0.50
1:C:557:LYS:O	1:C:559:THR:N	2.44	0.50
1:E:192:VAL:HG11	1:E:221:ILE:HD11	1.88	0.50
1:E:216:ASN:HB2	1:E:219:LEU:CB	2.39	0.50
1:E:247:VAL:O	1:E:266:THR:HG21	2.06	0.50
1:E:301:LEU:O	1:E:302:LEU:C	2.53	0.50
1:E:340:ASN:HB3	1:E:344:VAL:CB	2.41	0.50
1:E:353:ILE:HG21	1:E:426:TYR:CB	2.38	0.50
1:E:369:PHE:CZ	1:E:410:LEU:HD21	2.45	0.50
1:E:449:ILE:HD13	1:E:449:ILE:C	2.36	0.50
1:G:35:MET:HE3	1:G:80:VAL:HG11	1.94	0.50
1:G:95:GLU:C	1:G:98:GLN:H	2.20	0.50
1:G:131:TYR:HE2	1:G:135:ARG:HH12	1.60	0.50
1:G:151:GLY:C	1:G:286:ASP:OD2	2.54	0.50
1:G:253:TRP:C	1:G:255:ALA:N	2.67	0.50
1:G:258:LEU:HD13	1:G:258:LEU:N	2.26	0.50
1:G:465:GLN:NE2	1:G:502:ARG:NH1	2.59	0.50
1:G:467:PHE:O	1:G:471:ILE:HG22	2.12	0.50
2:H:24:ILE:O	2:H:28:TRP:HD1	1.92	0.50
1:I:300:LEU:HD23	1:I:324:LEU:HD23	1.93	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:411:VAL:N	1:I:423:PRO:CD	2.73	0.50
1:K:35:MET:HE3	1:K:39:ILE:HD13	1.89	0.50
1:K:247:VAL:CG2	1:K:264:LEU:CD1	2.89	0.50
2:L:43:ILE:HG22	2:L:44:LEU:N	2.26	0.50
1:O:46:ASP:O	1:O:50:MET:N	2.45	0.50
1:O:300:LEU:HD23	1:O:324:LEU:HD23	1.93	0.50
1:O:410:LEU:CD2	1:O:427:LEU:HB2	2.40	0.50
2:P:58:LYS:C	2:P:60:PHE:N	2.69	0.50
1:Q:65:LEU:HD22	1:Q:76:PHE:CD2	2.46	0.50
1:Q:200:LEU:HD21	1:Q:207:TRP:HD1	1.76	0.50
1:Q:369:PHE:CZ	1:Q:410:LEU:HD21	2.45	0.50
1:Q:911:UNK:O	1:Q:912:UNK:C	2.59	0.50
1:S:35:MET:HE3	1:S:80:VAL:HG11	1.94	0.50
1:S:65:LEU:HD22	1:S:76:PHE:CD2	2.46	0.50
1:S:95:GLU:C	1:S:98:GLN:H	2.20	0.50
1:S:131:TYR:HE2	1:S:135:ARG:HH12	1.60	0.50
1:S:465:GLN:NE2	1:S:502:ARG:NH1	2.59	0.50
1:U:216:ASN:HB2	1:U:219:LEU:CB	2.39	0.50
1:U:301:LEU:O	1:U:302:LEU:C	2.53	0.50
1:U:340:ASN:HB3	1:U:344:VAL:CB	2.41	0.50
1:U:449:ILE:HD13	1:U:449:ILE:C	2.36	0.50
1:W:19:PHE:CZ	1:W:92:ILE:HD13	2.28	0.50
1:W:109:GLN:O	1:W:110:ARG:C	2.51	0.50
1:W:134:LEU:HB3	1:W:164:VAL:HG11	1.92	0.50
1:W:300:LEU:O	1:W:301:LEU:C	2.52	0.50
1:W:302:LEU:O	1:W:306:ASP:N	2.39	0.50
1:W:306:ASP:C	1:W:307:CYS:SG	2.94	0.50
1:W:357:LEU:CD2	1:W:430:LYS:HE2	2.42	0.50
1:W:382:PRO:HG2	1:W:385:LEU:HD12	1.93	0.50
1:W:427:LEU:HD23	1:W:428:GLU:N	2.26	0.50
1:Y:59:LEU:HD21	1:Y:63:TRP:CZ2	2.46	0.50
1:Y:233:LYS:CD	1:Y:233:LYS:N	2.73	0.50
1:a:177:LYS:CE	1:a:237:TYR:HE1	2.25	0.50
1:a:200:LEU:HD21	1:a:207:TRP:HD1	1.76	0.50
1:a:379:ALA:HB1	1:a:470:HIS:NE2	2.27	0.50
1:a:382:PRO:HG2	1:a:385:LEU:HD12	1.93	0.50
1:a:410:LEU:CD2	1:a:427:LEU:HB2	2.40	0.50
2:b:58:LYS:C	2:b:60:PHE:N	2.69	0.50
1:c:39:ILE:HG23	1:c:40:LEU:N	2.27	0.50
1:c:427:LEU:HD23	1:c:428:GLU:N	2.26	0.50
2:d:43:ILE:CG1	2:d:89:LEU:CD2	2.89	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:e:129:GLN:CB	1:e:130:PRO:CD	2.84	0.50
1:A:95:GLU:C	1:A:98:GLN:H	2.20	0.50
1:A:398:VAL:O	1:A:402:VAL:HG22	2.12	0.50
1:A:443:ILE:HG13	1:A:478:ILE:HG22	1.93	0.50
1:A:465:GLN:NE2	1:A:502:ARG:NH1	2.59	0.50
1:C:15:ILE:HG21	1:C:95:GLU:HB3	1.78	0.50
1:C:134:LEU:HB3	1:C:164:VAL:HG11	1.92	0.50
1:C:306:ASP:C	1:C:307:CYS:SG	2.94	0.50
1:C:357:LEU:CD2	1:C:430:LYS:HE2	2.42	0.50
2:D:58:LYS:C	2:D:60:PHE:N	2.69	0.50
1:E:258:LEU:HD13	1:E:258:LEU:N	2.26	0.50
1:E:306:ASP:C	1:E:307:CYS:SG	2.94	0.50
1:E:357:LEU:CD2	1:E:430:LYS:HE2	2.42	0.50
1:G:200:LEU:HD21	1:G:207:TRP:HD1	1.76	0.50
2:H:87:TYR:O	2:H:91:ILE:HG13	2.12	0.50
1:I:95:GLU:C	1:I:98:GLN:H	2.20	0.50
1:I:398:VAL:O	1:I:402:VAL:HG22	2.12	0.50
1:I:427:LEU:HD23	1:I:428:GLU:N	2.26	0.50
1:I:443:ILE:HG13	1:I:478:ILE:HG22	1.93	0.50
1:I:465:GLN:NE2	1:I:502:ARG:NH1	2.59	0.50
1:I:467:PHE:O	1:I:471:ILE:HG22	2.12	0.50
1:K:10:TYR:HE1	1:K:107:ILE:HG21	1.73	0.50
1:K:131:TYR:HE2	1:K:135:ARG:HH12	1.60	0.50
1:K:183:LEU:HB3	1:K:186:CYS:SG	2.51	0.50
1:K:336:ALA:CB	1:K:340:ASN:OD1	2.56	0.50
2:L:44:LEU:H	2:L:44:LEU:CD1	2.15	0.50
1:M:305:LEU:HD13	1:M:305:LEU:C	2.34	0.50
1:M:455:SER:OG	1:M:459:ILE:O	2.12	0.50
1:O:40:LEU:CD2	1:O:40:LEU:N	2.73	0.50
1:O:146:ASN:O	1:O:280:THR:CB	2.47	0.50
1:O:177:LYS:CE	1:O:237:TYR:HE1	2.25	0.50
1:O:200:LEU:HD21	1:O:207:TRP:HD1	1.76	0.50
1:O:379:ALA:HB1	1:O:470:HIS:NE2	2.27	0.50
1:Q:382:PRO:HD3	1:Q:466:TYR:CD2	2.47	0.50
1:Q:449:ILE:HD13	1:Q:449:ILE:C	2.36	0.50
1:Q:483:ARG:HG3	1:Q:487:PHE:CE1	2.46	0.50
1:Q:520:GLN:NE2	1:Q:546:LEU:HD21	2.27	0.50
2:R:37:GLU:HA	2:R:40:GLN:HB3	1.94	0.50
1:S:151:GLY:C	1:S:286:ASP:OD2	2.54	0.50
1:S:467:PHE:O	1:S:471:ILE:HG22	2.12	0.50
1:U:306:ASP:C	1:U:307:CYS:SG	2.94	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:U:369:PHE:CZ	1:U:410:LEU:HD21	2.45	0.50
1:U:520:GLN:NE2	1:U:546:LEU:HD21	2.27	0.50
1:W:39:ILE:HG23	1:W:40:LEU:N	2.27	0.50
1:W:95:GLU:C	1:W:98:GLN:H	2.20	0.50
1:W:170:VAL:O	1:W:174:MET:HE2	2.10	0.50
1:W:382:PRO:HD3	1:W:466:TYR:CD2	2.47	0.50
1:Y:65:LEU:HD22	1:Y:76:PHE:CD2	2.46	0.50
1:Y:382:PRO:HD3	1:Y:466:TYR:CD2	2.47	0.50
1:Y:449:ILE:HD13	1:Y:449:ILE:C	2.36	0.50
1:Y:483:ARG:HG3	1:Y:487:PHE:CE1	2.46	0.50
1:Y:520:GLN:NE2	1:Y:546:LEU:HD21	2.27	0.50
2:Z:37:GLU:HA	2:Z:40:GLN:HB3	1.94	0.50
1:a:35:MET:HE3	1:a:80:VAL:HG11	1.94	0.50
1:a:46:ASP:O	1:a:50:MET:N	2.45	0.50
1:a:360:LEU:HD11	1:a:365:TYR:HB3	1.83	0.50
1:c:398:VAL:O	1:c:402:VAL:HG22	2.12	0.50
2:d:37:GLU:HA	2:d:40:GLN:HB3	1.94	0.50
1:e:46:ASP:O	1:e:50:MET:N	2.45	0.50
1:e:131:TYR:HE2	1:e:135:ARG:HH12	1.60	0.50
1:e:166:LEU:CD2	1:e:167:SER:N	2.73	0.50
1:e:300:LEU:O	1:e:301:LEU:C	2.52	0.50
1:e:371:ARG:HG3	1:e:389:ILE:CD1	2.30	0.50
2:f:37:GLU:HA	2:f:40:GLN:HB3	1.94	0.50
2:f:43:ILE:HG22	2:f:44:LEU:N	2.26	0.50
1:A:129:GLN:CB	1:A:130:PRO:CD	2.84	0.50
1:A:467:PHE:O	1:A:471:ILE:HG22	2.12	0.50
1:C:340:ASN:HB3	1:C:344:VAL:CB	2.41	0.50
1:C:382:PRO:HD3	1:C:466:TYR:CD2	2.47	0.50
1:C:427:LEU:HD23	1:C:428:GLU:N	2.26	0.50
1:C:449:ILE:C	1:C:449:ILE:HD13	2.36	0.50
1:E:465:GLN:NE2	1:E:502:ARG:NH1	2.59	0.50
1:E:520:GLN:NE2	1:E:546:LEU:HD21	2.27	0.50
1:G:369:PHE:CD1	1:G:411:VAL:HG22	2.47	0.50
1:G:382:PRO:HG2	1:G:385:LEU:HD12	1.93	0.50
1:G:427:LEU:HD23	1:G:428:GLU:N	2.26	0.50
1:I:382:PRO:HD3	1:I:466:TYR:CD2	2.47	0.50
1:I:488:ARG:HH11	1:I:488:ARG:HG3	1.75	0.50
2:J:58:LYS:C	2:J:60:PHE:H	2.19	0.50
1:K:46:ASP:O	1:K:50:MET:N	2.45	0.50
1:K:166:LEU:CD2	1:K:167:SER:N	2.73	0.50
2:L:37:GLU:HA	2:L:40:GLN:HB3	1.94	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:L:81:GLN:CA	2:L:81:GLN:NE2	2.73	0.50
1:M:398:VAL:O	1:M:402:VAL:HG22	2.12	0.50
1:M:520:GLN:NE2	1:M:546:LEU:HD21	2.27	0.50
2:N:37:GLU:HA	2:N:40:GLN:HB3	1.94	0.50
1:O:35:MET:HE3	1:O:80:VAL:HG11	1.94	0.50
1:O:38:SER:O	1:O:72:MET:SD	2.69	0.50
1:O:165:CYS:SG	1:O:180:TRP:HZ2	2.35	0.50
1:O:247:VAL:O	1:O:266:THR:HG21	2.06	0.50
2:P:37:GLU:HA	2:P:40:GLN:HB3	1.94	0.50
1:Q:177:LYS:CE	1:Q:237:TYR:HE1	2.25	0.50
1:Q:233:LYS:CD	1:Q:233:LYS:N	2.73	0.50
1:Q:353:ILE:HG21	1:Q:426:TYR:CB	2.38	0.50
1:Q:411:VAL:N	1:Q:423:PRO:CD	2.73	0.50
2:T:87:TYR:O	2:T:91:ILE:HG13	2.12	0.50
1:U:258:LEU:HD13	1:U:258:LEU:N	2.26	0.50
1:U:305:LEU:HD13	1:U:305:LEU:C	2.34	0.50
1:U:357:LEU:CD2	1:U:430:LYS:HE2	2.42	0.50
1:W:177:LYS:CE	1:W:237:TYR:HE1	2.25	0.50
1:W:449:ILE:C	1:W:449:ILE:HD13	2.36	0.50
2:X:43:ILE:HG22	2:X:44:LEU:N	2.26	0.50
1:Y:177:LYS:CE	1:Y:237:TYR:HE1	2.25	0.50
1:Y:200:LEU:HD21	1:Y:207:TRP:HD1	1.76	0.50
1:Y:411:VAL:N	1:Y:423:PRO:CD	2.73	0.50
1:Y:467:PHE:O	1:Y:471:ILE:HG22	2.12	0.50
1:a:40:LEU:CD2	1:a:40:LEU:N	2.73	0.50
1:a:138:LEU:HD21	1:a:170:VAL:CG1	2.31	0.50
1:a:146:ASN:O	1:a:280:THR:CB	2.47	0.50
1:a:165:CYS:SG	1:a:180:TRP:HZ2	2.35	0.50
1:a:192:VAL:HG23	1:a:221:ILE:HD12	1.92	0.50
2:b:16:GLU:O	2:b:20:LYS:HD2	2.10	0.50
1:c:177:LYS:CE	1:c:237:TYR:HE1	2.25	0.50
1:c:233:LYS:CD	1:c:233:LYS:N	2.73	0.50
1:c:275:LEU:HB3	1:c:280:THR:HG21	1.94	0.50
1:c:520:GLN:NE2	1:c:546:LEU:HD21	2.27	0.50
1:e:177:LYS:CE	1:e:237:TYR:HE1	2.25	0.50
1:A:120:PHE:O	1:A:121:ALA:C	2.54	0.50
1:A:382:PRO:HD3	1:A:466:TYR:CD2	2.47	0.50
1:C:35:MET:HE3	1:C:80:VAL:HG11	1.94	0.50
1:C:59:LEU:HD21	1:C:63:TRP:CZ2	2.46	0.50
1:C:170:VAL:O	1:C:174:MET:HE2	2.10	0.50
1:C:177:LYS:CE	1:C:237:TYR:HE1	2.25	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:302:LEU:O	1:C:306:ASP:N	2.39	0.50
1:C:398:VAL:O	1:C:402:VAL:HG22	2.12	0.50
1:C:495:ARG:HH21	1:C:564:ILE:CD1	2.25	0.50
2:D:43:ILE:HG22	2:D:44:LEU:N	2.26	0.50
1:E:398:VAL:O	1:E:402:VAL:HG22	2.12	0.50
1:E:911:UNK:O	1:E:912:UNK:C	2.59	0.50
1:G:243:VAL:CG1	1:G:263:LEU:HD23	2.41	0.50
1:G:495:ARG:HH21	1:G:564:ILE:CD1	2.25	0.50
1:I:59:LEU:HD21	1:I:63:TRP:CZ2	2.46	0.50
1:I:152:VAL:N	1:I:286:ASP:OD2	2.44	0.50
2:J:44:LEU:H	2:J:44:LEU:CD1	2.15	0.50
1:K:129:GLN:CB	1:K:130:PRO:CD	2.84	0.50
1:K:177:LYS:CE	1:K:237:TYR:HE1	2.25	0.50
1:K:253:TRP:C	1:K:255:ALA:N	2.67	0.50
1:K:382:PRO:HD3	1:K:466:TYR:CD2	2.47	0.50
2:L:57:GLY:N	2:L:59:PRO:CD	2.75	0.50
1:M:177:LYS:CE	1:M:237:TYR:HE1	2.25	0.50
1:M:183:LEU:HB3	1:M:186:CYS:SG	2.51	0.50
1:M:216:ASN:HB2	1:M:219:LEU:CB	2.39	0.50
1:M:275:LEU:HB3	1:M:280:THR:HG21	1.94	0.50
1:M:369:PHE:CD1	1:M:411:VAL:HG22	2.47	0.50
2:N:87:TYR:O	2:N:91:ILE:HG13	2.12	0.50
2:P:16:GLU:O	2:P:20:LYS:HD2	2.10	0.50
2:P:33:ARG:O	2:P:97:ILE:HD12	2.12	0.50
1:Q:379:ALA:HB1	1:Q:470:HIS:NE2	2.27	0.50
1:Q:467:PHE:O	1:Q:471:ILE:HG22	2.12	0.50
1:Q:495:ARG:HH21	1:Q:564:ILE:CD1	2.25	0.50
2:R:82:ARG:NH1	2:R:82:ARG:CG	2.73	0.50
1:S:243:VAL:CG1	1:S:263:LEU:HD23	2.41	0.50
1:S:253:TRP:C	1:S:255:ALA:N	2.67	0.50
1:S:369:PHE:CD1	1:S:411:VAL:HG22	2.47	0.50
1:S:382:PRO:HG2	1:S:385:LEU:HD12	1.93	0.50
1:S:495:ARG:HH21	1:S:564:ILE:CD1	2.25	0.50
1:U:398:VAL:O	1:U:402:VAL:HG22	2.12	0.50
1:U:465:GLN:NE2	1:U:502:ARG:NH1	2.59	0.50
1:U:911:UNK:O	1:U:912:UNK:C	2.59	0.50
1:W:340:ASN:HB3	1:W:344:VAL:CB	2.41	0.50
1:W:398:VAL:O	1:W:402:VAL:HG22	2.12	0.50
1:W:495:ARG:HH21	1:W:564:ILE:CD1	2.25	0.50
2:X:58:LYS:C	2:X:60:PHE:N	2.69	0.50
1:Y:340:ASN:HB3	1:Y:344:VAL:CB	2.41	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:a:38:SER:O	1:a:72:MET:SD	2.69	0.50
2:b:33:ARG:O	2:b:97:ILE:HD12	2.12	0.50
2:b:37:GLU:HA	2:b:40:GLN:HB3	1.94	0.50
1:c:183:LEU:HB3	1:c:186:CYS:SG	2.51	0.50
1:c:216:ASN:HB2	1:c:219:LEU:CB	2.39	0.50
1:c:455:SER:OG	1:c:459:ILE:O	2.12	0.50
1:c:458:LEU:HD11	1:c:576:GLU:OE2	2.11	0.50
1:e:288:HIS:HD2	1:e:288:HIS:H	1.57	0.50
1:e:360:LEU:HD11	1:e:365:TYR:HB3	1.83	0.50
1:e:369:PHE:CD1	1:e:411:VAL:HG22	2.47	0.50
1:A:41:SER:O	1:A:45:ILE:N	2.38	0.50
1:A:59:LEU:HD21	1:A:63:TRP:CZ2	2.46	0.50
1:A:93:LYS:HG2	1:A:97:ARG:HH12	1.77	0.50
1:A:152:VAL:N	1:A:286:ASP:OD2	2.44	0.50
1:A:165:CYS:SG	1:A:180:TRP:HZ2	2.35	0.50
1:A:488:ARG:HH11	1:A:488:ARG:HG3	1.75	0.50
1:A:495:ARG:HH21	1:A:564:ILE:CD1	2.25	0.50
1:A:520:GLN:NE2	1:A:546:LEU:HD21	2.27	0.50
1:C:19:PHE:CZ	1:C:92:ILE:HD13	2.28	0.50
1:C:411:VAL:N	1:C:423:PRO:CD	2.73	0.50
1:E:19:PHE:HZ	1:E:92:ILE:CG1	1.90	0.50
1:E:35:MET:HE3	1:E:39:ILE:HD13	1.89	0.50
1:E:305:LEU:HD13	1:E:305:LEU:C	2.34	0.50
1:E:369:PHE:CD1	1:E:411:VAL:HG22	2.47	0.50
1:G:84:ASN:OD1	1:G:85:TYR:CG	2.62	0.50
1:G:165:CYS:SG	1:G:180:TRP:HZ2	2.35	0.50
1:G:371:ARG:HG3	1:G:389:ILE:CD1	2.30	0.50
1:G:520:GLN:NE2	1:G:546:LEU:HD21	2.27	0.50
1:I:93:LYS:HG2	1:I:97:ARG:HH12	1.77	0.50
1:I:165:CYS:SG	1:I:180:TRP:HZ2	2.35	0.50
1:I:495:ARG:HH21	1:I:564:ILE:CD1	2.25	0.50
1:K:29:CYS:HA	1:K:32:VAL:CG2	2.41	0.50
1:K:192:VAL:HG23	1:K:221:ILE:HD12	1.92	0.50
1:K:288:HIS:HD2	1:K:288:HIS:H	1.57	0.50
1:K:360:LEU:HD11	1:K:365:TYR:HB3	1.83	0.50
1:K:369:PHE:CD1	1:K:411:VAL:HG22	2.47	0.50
1:K:410:LEU:CD2	1:K:427:LEU:HB2	2.40	0.50
1:M:192:VAL:HG23	1:M:221:ILE:HD12	1.92	0.50
1:M:233:LYS:CD	1:M:233:LYS:N	2.73	0.50
1:M:360:LEU:HD11	1:M:365:TYR:HB3	1.83	0.50
1:M:443:ILE:HG13	1:M:478:ILE:HG22	1.93	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:O:65:LEU:HD22	1:O:76:PHE:CD2	2.46	0.50
1:O:357:LEU:CD2	1:O:430:LYS:HE2	2.42	0.50
1:Q:152:VAL:N	1:Q:286:ASP:OD2	2.44	0.50
1:Q:300:LEU:HD23	1:Q:324:LEU:HD23	1.93	0.50
1:Q:340:ASN:HB3	1:Q:344:VAL:CB	2.41	0.50
2:R:16:GLU:O	2:R:20:LYS:HD2	2.11	0.50
1:S:165:CYS:SG	1:S:180:TRP:HZ2	2.35	0.50
1:S:234:SER:HB3	1:S:236:PRO:CD	2.25	0.50
1:S:275:LEU:HB3	1:S:280:THR:HG21	1.94	0.50
1:S:427:LEU:HD23	1:S:428:GLU:N	2.26	0.50
2:T:35:ALA:HB1	2:T:49:LEU:HD11	1.92	0.50
1:U:35:MET:HE3	1:U:39:ILE:HD13	1.89	0.50
1:U:39:ILE:HG23	1:U:40:LEU:N	2.27	0.50
1:U:93:LYS:HG2	1:U:97:ARG:HH12	1.77	0.50
1:U:177:LYS:CE	1:U:237:TYR:HE1	2.25	0.50
1:U:369:PHE:CD1	1:U:411:VAL:HG22	2.47	0.50
2:V:37:GLU:HA	2:V:40:GLN:HB3	1.94	0.50
1:W:369:PHE:CZ	1:W:410:LEU:HD21	2.45	0.50
1:W:1187:UNK:O	1:W:1188:UNK:C	2.59	0.50
1:Y:152:VAL:N	1:Y:286:ASP:OD2	2.44	0.50
1:Y:379:ALA:HB1	1:Y:470:HIS:NE2	2.27	0.50
1:Y:495:ARG:HH21	1:Y:564:ILE:CD1	2.25	0.50
2:Z:16:GLU:O	2:Z:20:LYS:HD2	2.11	0.50
1:c:35:MET:HE3	1:c:80:VAL:HG11	1.94	0.50
1:c:131:TYR:HE2	1:c:135:ARG:HH12	1.60	0.50
1:c:152:VAL:N	1:c:286:ASP:OD2	2.44	0.50
1:c:300:LEU:O	1:c:304:TYR:CE1	2.65	0.50
1:c:360:LEU:HD11	1:c:365:TYR:HB3	1.83	0.50
1:c:369:PHE:CD1	1:c:411:VAL:HG22	2.47	0.50
2:d:87:TYR:O	2:d:91:ILE:HG13	2.12	0.50
1:e:29:CYS:HA	1:e:32:VAL:CG2	2.41	0.50
1:e:165:CYS:SG	1:e:180:TRP:HZ2	2.35	0.50
1:e:336:ALA:CB	1:e:340:ASN:OD1	2.56	0.50
2:f:57:GLY:N	2:f:59:PRO:CD	2.75	0.50
1:A:46:ASP:O	1:A:50:MET:N	2.45	0.49
1:A:382:PRO:HG2	1:A:385:LEU:HD12	1.93	0.49
2:B:17:HIS:HD2	2:B:109:VAL:HG11	1.77	0.49
1:C:1187:UNK:O	1:C:1188:UNK:C	2.59	0.49
1:E:93:LYS:HG2	1:E:97:ARG:HH12	1.77	0.49
1:E:177:LYS:CE	1:E:237:TYR:HE1	2.25	0.49
1:E:495:ARG:HH21	1:E:564:ILE:CD1	2.25	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:F:37:GLU:HA	2:F:40:GLN:HB3	1.94	0.49
1:G:29:CYS:HA	1:G:32:VAL:CG2	2.41	0.49
1:G:192:VAL:HG23	1:G:221:ILE:CD1	2.30	0.49
1:G:234:SER:HB3	1:G:236:PRO:CD	2.25	0.49
1:G:275:LEU:HB3	1:G:280:THR:HG21	1.94	0.49
2:H:35:ALA:HB1	2:H:49:LEU:HD11	1.92	0.49
2:H:43:ILE:HG22	2:H:44:LEU:N	2.26	0.49
1:I:35:MET:CE	1:I:39:ILE:CD1	2.77	0.49
1:I:35:MET:HE3	1:I:80:VAL:HG11	1.94	0.49
1:I:120:PHE:O	1:I:121:ALA:C	2.54	0.49
1:I:129:GLN:CB	1:I:130:PRO:CD	2.84	0.49
1:I:192:VAL:HG23	1:I:221:ILE:HD12	1.92	0.49
1:I:253:TRP:C	1:I:255:ALA:N	2.67	0.49
1:I:382:PRO:HG2	1:I:385:LEU:HD12	1.93	0.49
1:I:520:GLN:NE2	1:I:546:LEU:HD21	2.27	0.49
2:J:17:HIS:HD2	2:J:109:VAL:HG11	1.77	0.49
1:K:165:CYS:SG	1:K:180:TRP:HZ2	2.35	0.49
1:M:131:TYR:HE2	1:M:135:ARG:HH12	1.60	0.49
1:M:152:VAL:N	1:M:286:ASP:OD2	2.44	0.49
1:M:300:LEU:O	1:M:304:TYR:CE1	2.65	0.49
1:M:458:LEU:HD11	1:M:576:GLU:OE2	2.11	0.49
1:M:467:PHE:O	1:M:471:ILE:HG22	2.12	0.49
1:M:495:ARG:HH21	1:M:564:ILE:CD1	2.25	0.49
1:O:186:CYS:CA	1:O:191:THR:HG21	2.40	0.49
2:P:43:ILE:CG1	2:P:89:LEU:CD2	2.89	0.49
1:Q:165:CYS:SG	1:Q:180:TRP:HZ2	2.35	0.49
1:Q:369:PHE:CD1	1:Q:411:VAL:HG22	2.47	0.49
2:R:33:ARG:O	2:R:97:ILE:HD12	2.12	0.49
1:S:29:CYS:HA	1:S:32:VAL:CG2	2.41	0.49
1:S:520:GLN:NE2	1:S:546:LEU:HD21	2.27	0.49
1:U:235:LYS:HZ1	1:U:238:GLU:HG2	1.76	0.49
1:U:495:ARG:HH21	1:U:564:ILE:CD1	2.25	0.49
1:W:35:MET:HE3	1:W:80:VAL:HG11	1.94	0.49
1:W:59:LEU:HD21	1:W:63:TRP:CZ2	2.46	0.49
1:W:411:VAL:N	1:W:423:PRO:CD	2.73	0.49
1:Y:300:LEU:HD23	1:Y:324:LEU:HD23	1.93	0.49
2:Z:82:ARG:NH1	2:Z:82:ARG:CG	2.73	0.49
1:a:183:LEU:HB3	1:a:186:CYS:SG	2.51	0.49
1:a:357:LEU:CD2	1:a:430:LYS:HE2	2.42	0.49
2:b:87:TYR:O	2:b:91:ILE:HG13	2.12	0.49
1:c:165:CYS:SG	1:c:180:TRP:HZ2	2.35	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:e:253:TRP:C	1:e:255:ALA:N	2.67	0.49
1:e:382:PRO:HD3	1:e:466:TYR:CD2	2.47	0.49
1:e:410:LEU:CD2	1:e:427:LEU:HB2	2.40	0.49
2:f:58:LYS:C	2:f:60:PHE:H	2.19	0.49
1:A:35:MET:HE3	1:A:80:VAL:HG11	1.94	0.49
1:C:369:PHE:CZ	1:C:410:LEU:HD21	2.45	0.49
1:C:443:ILE:HG13	1:C:478:ILE:HG22	1.93	0.49
1:E:39:ILE:HG23	1:E:40:LEU:N	2.27	0.49
1:E:100:SER:O	1:E:101:MET:C	2.55	0.49
1:E:493:ASP:O	1:E:496:PHE:HB3	2.12	0.49
1:G:443:ILE:HG13	1:G:478:ILE:HG22	1.93	0.49
2:H:37:GLU:HA	2:H:40:GLN:HB3	1.94	0.49
1:I:46:ASP:O	1:I:50:MET:N	2.45	0.49
1:M:35:MET:HE3	1:M:80:VAL:HG11	1.94	0.49
1:M:165:CYS:SG	1:M:180:TRP:HZ2	2.35	0.49
1:M:493:ASP:O	1:M:496:PHE:HB3	2.12	0.49
2:N:35:ALA:HB1	2:N:49:LEU:HD11	1.92	0.49
2:N:44:LEU:H	2:N:44:LEU:CD1	2.15	0.49
1:O:138:LEU:HD21	1:O:170:VAL:CG1	2.31	0.49
1:O:300:LEU:O	1:O:304:TYR:CE1	2.65	0.49
1:O:382:PRO:HD3	1:O:466:TYR:CD2	2.47	0.49
1:O:467:PHE:O	1:O:471:ILE:HG22	2.12	0.49
1:O:495:ARG:HH21	1:O:564:ILE:CD1	2.25	0.49
2:P:87:TYR:O	2:P:91:ILE:HG13	2.12	0.49
1:Q:46:ASP:O	1:Q:50:MET:N	2.45	0.49
1:Q:251:LYS:HD2	1:Q:252:ALA:HA	1.94	0.49
1:S:52:LYS:CD	1:S:52:LYS:C	2.86	0.49
1:S:84:ASN:OD1	1:S:85:TYR:CG	2.62	0.49
1:S:443:ILE:HG13	1:S:478:ILE:HG22	1.93	0.49
2:T:43:ILE:HG22	2:T:44:LEU:N	2.26	0.49
1:U:100:SER:O	1:U:101:MET:C	2.55	0.49
1:U:493:ASP:O	1:U:496:PHE:HB3	2.12	0.49
1:W:46:ASP:O	1:W:50:MET:N	2.45	0.49
1:W:138:LEU:HD21	1:W:170:VAL:HG11	1.78	0.49
2:X:87:TYR:O	2:X:91:ILE:HG13	2.12	0.49
1:Y:165:CYS:SG	1:Y:180:TRP:HZ2	2.35	0.49
1:Y:251:LYS:HD2	1:Y:252:ALA:HA	1.94	0.49
1:Y:369:PHE:CD1	1:Y:411:VAL:HG22	2.47	0.49
2:Z:33:ARG:O	2:Z:97:ILE:HD12	2.12	0.49
1:a:65:LEU:HD22	1:a:76:PHE:CD2	2.46	0.49
1:a:192:VAL:HG11	1:a:221:ILE:HD11	1.88	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:a:300:LEU:O	1:a:304:TYR:CE1	2.65	0.49
2:b:43:ILE:CG1	2:b:89:LEU:CD2	2.89	0.49
1:c:443:ILE:HG13	1:c:478:ILE:HG22	1.93	0.49
1:c:467:PHE:O	1:c:471:ILE:HG22	2.12	0.49
1:c:493:ASP:O	1:c:496:PHE:HB3	2.12	0.49
2:f:44:LEU:H	2:f:44:LEU:CD1	2.15	0.49
1:A:166:LEU:CD2	1:A:167:SER:N	2.73	0.49
1:A:340:ASN:HB3	1:A:344:VAL:CB	2.41	0.49
2:B:44:LEU:H	2:B:44:LEU:CD1	2.15	0.49
2:B:87:TYR:O	2:B:91:ILE:HG13	2.12	0.49
1:C:46:ASP:O	1:C:50:MET:N	2.45	0.49
1:C:100:SER:O	1:C:101:MET:C	2.55	0.49
1:C:192:VAL:HG23	1:C:193:LEU:H	1.78	0.49
1:C:235:LYS:HZ1	1:C:238:GLU:HG2	1.76	0.49
2:D:87:TYR:O	2:D:91:ILE:HG13	2.12	0.49
1:E:165:CYS:SG	1:E:180:TRP:HZ2	2.35	0.49
1:E:275:LEU:HB3	1:E:280:THR:HG21	1.94	0.49
1:E:382:PRO:HG2	1:E:385:LEU:HD12	1.93	0.49
1:G:52:LYS:CD	1:G:52:LYS:C	2.86	0.49
1:G:300:LEU:O	1:G:304:TYR:CE1	2.65	0.49
1:G:301:LEU:O	1:G:302:LEU:C	2.53	0.49
1:G:382:PRO:HD3	1:G:466:TYR:CD2	2.47	0.49
1:I:15:ILE:HG21	1:I:95:GLU:HB3	1.78	0.49
1:I:41:SER:O	1:I:45:ILE:N	2.38	0.49
2:J:81:GLN:CA	2:J:81:GLN:NE2	2.73	0.49
1:K:35:MET:CE	1:K:39:ILE:CD1	2.77	0.49
1:K:151:GLY:HA2	1:K:286:ASP:CG	2.30	0.49
1:K:152:VAL:N	1:K:286:ASP:OD2	2.44	0.49
1:K:300:LEU:O	1:K:304:TYR:CE1	2.65	0.49
1:M:52:LYS:C	1:M:52:LYS:CD	2.86	0.49
1:M:410:LEU:HA	1:M:423:PRO:HG3	1.84	0.49
2:N:33:ARG:O	2:N:97:ILE:HD12	2.12	0.49
1:O:35:MET:CE	1:O:39:ILE:CD1	2.77	0.49
1:O:183:LEU:HB3	1:O:186:CYS:SG	2.51	0.49
1:O:192:VAL:HG23	1:O:193:LEU:H	1.78	0.49
1:O:253:TRP:C	1:O:255:ALA:N	2.67	0.49
1:O:398:VAL:O	1:O:402:VAL:HG22	2.12	0.49
2:T:37:GLU:HA	2:T:40:GLN:HB3	1.94	0.49
1:U:19:PHE:HZ	1:U:92:ILE:CG1	1.90	0.49
1:U:443:ILE:HG13	1:U:478:ILE:HG22	1.93	0.49
1:W:192:VAL:HG23	1:W:193:LEU:H	1.78	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Y:46:ASP:O	1:Y:50:MET:N	2.45	0.49
1:a:186:CYS:CA	1:a:191:THR:HG21	2.40	0.49
1:a:192:VAL:HG23	1:a:193:LEU:H	1.78	0.49
1:a:382:PRO:HD3	1:a:466:TYR:CD2	2.47	0.49
1:a:467:PHE:O	1:a:471:ILE:HG22	2.12	0.49
1:a:495:ARG:HH21	1:a:564:ILE:CD1	2.25	0.49
1:c:52:LYS:CD	1:c:52:LYS:C	2.86	0.49
1:c:88:LEU:CA	1:c:91:PRO:HD2	2.39	0.49
1:c:129:GLN:CB	1:c:130:PRO:CD	2.84	0.49
1:c:192:VAL:HG23	1:c:221:ILE:HD12	1.92	0.49
1:c:379:ALA:HB1	1:c:470:HIS:NE2	2.27	0.49
1:c:495:ARG:HH21	1:c:564:ILE:CD1	2.25	0.49
2:d:33:ARG:O	2:d:97:ILE:HD12	2.12	0.49
1:e:82:ARG:CG	1:e:82:ARG:NH1	2.72	0.49
1:e:152:VAL:N	1:e:286:ASP:OD2	2.44	0.49
1:e:192:VAL:HG23	1:e:221:ILE:HD12	1.92	0.49
1:e:300:LEU:O	1:e:304:TYR:CE1	2.65	0.49
1:A:192:VAL:HG23	1:A:221:ILE:HD12	1.92	0.49
2:B:37:GLU:HA	2:B:40:GLN:HB3	1.94	0.49
2:B:43:ILE:HG22	2:B:44:LEU:CG	2.43	0.49
1:E:18:VAL:CG2	1:E:103:THR:HG23	2.43	0.49
1:E:46:ASP:O	1:E:50:MET:N	2.45	0.49
1:E:443:ILE:HG13	1:E:478:ILE:HG22	1.93	0.49
1:G:46:ASP:O	1:G:50:MET:N	2.45	0.49
1:G:357:LEU:HB3	1:G:366:ARG:CD	2.43	0.49
1:I:200:LEU:HD21	1:I:207:TRP:HD1	1.76	0.49
1:I:340:ASN:HB3	1:I:344:VAL:CB	2.41	0.49
2:J:37:GLU:HA	2:J:40:GLN:HB3	1.94	0.49
2:J:87:TYR:O	2:J:91:ILE:HG13	2.12	0.49
1:K:258:LEU:HD13	1:K:258:LEU:N	2.26	0.49
1:K:495:ARG:HH21	1:K:564:ILE:CD1	2.25	0.49
1:K:520:GLN:NE2	1:K:546:LEU:HD21	2.27	0.49
1:M:379:ALA:HB1	1:M:470:HIS:NE2	2.27	0.49
1:M:382:PRO:HD3	1:M:466:TYR:CD2	2.47	0.49
1:O:95:GLU:C	1:O:98:GLN:H	2.20	0.49
1:Q:100:SER:O	1:Q:101:MET:C	2.55	0.49
1:Q:398:VAL:O	1:Q:402:VAL:HG22	2.12	0.49
1:S:46:ASP:O	1:S:50:MET:N	2.45	0.49
1:S:300:LEU:O	1:S:304:TYR:CE1	2.65	0.49
1:S:382:PRO:HD3	1:S:466:TYR:CD2	2.47	0.49
1:U:18:VAL:CG2	1:U:103:THR:HG23	2.43	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:U:95:GLU:C	1:U:98:GLN:H	2.20	0.49
1:U:165:CYS:SG	1:U:180:TRP:HZ2	2.35	0.49
1:U:275:LEU:HB3	1:U:280:THR:HG21	1.94	0.49
1:U:379:ALA:HB1	1:U:470:HIS:NE2	2.27	0.49
1:U:382:PRO:HG2	1:U:385:LEU:HD12	1.93	0.49
1:W:100:SER:O	1:W:101:MET:C	2.55	0.49
1:W:443:ILE:HG13	1:W:478:ILE:HG22	1.93	0.49
1:Y:398:VAL:O	1:Y:402:VAL:HG22	2.12	0.49
1:a:398:VAL:O	1:a:402:VAL:HG22	2.12	0.49
1:c:288:HIS:HD2	1:c:288:HIS:H	1.57	0.49
1:c:382:PRO:HD3	1:c:466:TYR:CD2	2.47	0.49
2:d:35:ALA:HB1	2:d:49:LEU:HD11	1.92	0.49
1:e:35:MET:HE3	1:e:80:VAL:HG11	1.94	0.49
1:e:93:LYS:HG2	1:e:97:ARG:HH12	1.77	0.49
1:e:95:GLU:C	1:e:98:GLN:H	2.20	0.49
1:e:258:LEU:HD13	1:e:258:LEU:N	2.26	0.49
1:e:340:ASN:HB3	1:e:344:VAL:CB	2.41	0.49
1:A:18:VAL:CG2	1:A:103:THR:HG23	2.43	0.49
1:A:35:MET:CE	1:A:39:ILE:CD1	2.77	0.49
1:A:200:LEU:HD21	1:A:207:TRP:HD1	1.76	0.49
1:A:208:THR:O	1:A:208:THR:OG1	2.26	0.49
1:A:357:LEU:HB3	1:A:366:ARG:CD	2.43	0.49
1:C:35:MET:CE	1:C:39:ILE:CD1	2.77	0.49
1:C:186:CYS:CA	1:C:191:THR:HG21	2.40	0.49
1:C:360:LEU:CD1	1:C:365:TYR:CB	2.69	0.49
2:D:57:GLY:N	2:D:59:PRO:CD	2.75	0.49
1:E:379:ALA:HB1	1:E:470:HIS:NE2	2.27	0.49
1:G:39:ILE:HG23	1:G:40:LEU:H	1.78	0.49
1:G:300:LEU:HD23	1:G:324:LEU:HD23	1.93	0.49
2:H:33:ARG:O	2:H:97:ILE:HD12	2.12	0.49
1:I:52:LYS:C	1:I:52:LYS:CD	2.86	0.49
1:I:166:LEU:CD2	1:I:167:SER:N	2.73	0.49
1:I:300:LEU:O	1:I:301:LEU:C	2.52	0.49
2:J:43:ILE:HG22	2:J:44:LEU:CG	2.43	0.49
1:K:340:ASN:HB3	1:K:344:VAL:CB	2.41	0.49
2:L:58:LYS:C	2:L:60:PHE:H	2.19	0.49
1:M:288:HIS:HD2	1:M:288:HIS:H	1.57	0.49
1:Q:869:UNK:O	1:Q:870:UNK:CB	2.61	0.49
1:S:15:ILE:HG21	1:S:95:GLU:HB3	1.78	0.49
1:S:39:ILE:HG23	1:S:40:LEU:H	1.78	0.49
1:S:340:ASN:HB3	1:S:344:VAL:CB	2.41	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:S:357:LEU:HB3	1:S:366:ARG:CD	2.43	0.49
2:T:43:ILE:HG22	2:T:44:LEU:CG	2.43	0.49
1:U:39:ILE:HG23	1:U:40:LEU:H	1.78	0.49
1:U:46:ASP:O	1:U:50:MET:N	2.45	0.49
1:U:382:PRO:HD3	1:U:466:TYR:CD2	2.47	0.49
2:V:58:LYS:C	2:V:60:PHE:H	2.19	0.49
1:W:35:MET:CE	1:W:40:LEU:HG	2.43	0.49
2:X:33:ARG:O	2:X:97:ILE:HD12	2.12	0.49
2:X:57:GLY:N	2:X:59:PRO:CD	2.75	0.49
1:Y:100:SER:O	1:Y:101:MET:C	2.55	0.49
1:Y:869:UNK:O	1:Y:870:UNK:CB	2.61	0.49
1:a:39:ILE:HG23	1:a:40:LEU:N	2.27	0.49
1:a:95:GLU:C	1:a:98:GLN:H	2.20	0.49
1:a:129:GLN:CB	1:a:130:PRO:CD	2.84	0.49
1:a:369:PHE:CD1	1:a:411:VAL:HG22	2.47	0.49
1:a:432:LYS:C	1:a:432:LYS:CD	2.86	0.49
1:a:493:ASP:O	1:a:496:PHE:HB3	2.12	0.49
1:c:410:LEU:HA	1:c:423:PRO:HG3	1.84	0.49
2:d:22:LEU:HD11	2:d:77:LEU:CD1	2.34	0.49
2:d:43:ILE:HG22	2:d:44:LEU:N	2.26	0.49
1:e:495:ARG:HH21	1:e:564:ILE:CD1	2.25	0.49
1:e:520:GLN:NE2	1:e:546:LEU:HD21	2.27	0.49
1:A:52:LYS:CD	1:A:52:LYS:C	2.86	0.49
1:A:243:VAL:CG1	1:A:263:LEU:HD23	2.41	0.49
2:B:33:ARG:O	2:B:97:ILE:HD12	2.12	0.49
2:B:81:GLN:CA	2:B:81:GLN:NE2	2.73	0.49
1:C:35:MET:CE	1:C:40:LEU:HG	2.43	0.49
1:C:300:LEU:HD23	1:C:324:LEU:HD23	1.93	0.49
1:C:301:LEU:O	1:C:302:LEU:C	2.53	0.49
1:C:410:LEU:HA	1:C:426:TYR:HE1	1.65	0.49
1:C:432:LYS:CD	1:C:432:LYS:C	2.86	0.49
1:C:520:GLN:NE2	1:C:546:LEU:HD21	2.27	0.49
1:C:869:UNK:O	1:C:870:UNK:CB	2.61	0.49
1:E:35:MET:HG3	1:E:39:ILE:HG21	1.95	0.49
1:E:39:ILE:HG23	1:E:40:LEU:H	1.78	0.49
1:E:95:GLU:C	1:E:98:GLN:H	2.20	0.49
1:G:397:ASP:O	1:G:401:VAL:HG23	2.13	0.49
2:H:43:ILE:HG22	2:H:44:LEU:CG	2.43	0.49
2:H:44:LEU:H	2:H:44:LEU:CD1	2.15	0.49
1:I:18:VAL:CG2	1:I:103:THR:HG23	2.43	0.49
1:I:357:LEU:HB3	1:I:366:ARG:CD	2.43	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:J:33:ARG:O	2:J:97:ILE:HD12	2.12	0.49
1:K:35:MET:HG3	1:K:39:ILE:HG21	1.95	0.49
1:K:35:MET:HE3	1:K:80:VAL:HG11	1.94	0.49
1:K:82:ARG:CG	1:K:82:ARG:NH1	2.72	0.49
1:K:93:LYS:HG2	1:K:97:ARG:HH12	1.77	0.49
1:K:95:GLU:C	1:K:98:GLN:H	2.20	0.49
1:M:35:MET:CE	1:M:40:LEU:HG	2.43	0.49
1:M:88:LEU:CA	1:M:91:PRO:HD2	2.39	0.49
1:M:129:GLN:CB	1:M:130:PRO:CD	2.84	0.49
1:M:374:VAL:HG23	1:M:375:PHE:N	2.28	0.49
1:M:419:THR:OG1	1:M:420:ILE:N	2.46	0.49
1:O:35:MET:CE	1:O:40:LEU:HG	2.43	0.49
1:O:39:ILE:HG23	1:O:40:LEU:N	2.27	0.49
1:O:369:PHE:CD1	1:O:411:VAL:HG22	2.47	0.49
1:O:520:GLN:NE2	1:O:546:LEU:HD21	2.27	0.49
1:O:869:UNK:O	1:O:870:UNK:CB	2.61	0.49
2:P:57:GLY:N	2:P:59:PRO:CD	2.75	0.49
1:Q:18:VAL:CG2	1:Q:103:THR:HG23	2.43	0.49
1:Q:305:LEU:HD13	1:Q:305:LEU:C	2.34	0.49
1:Q:404:LYS:HA	1:Q:404:LYS:CE	2.40	0.49
1:Q:432:LYS:CD	1:Q:432:LYS:C	2.86	0.49
1:Q:455:SER:OG	1:Q:459:ILE:O	2.12	0.49
1:S:300:LEU:HD23	1:S:324:LEU:HD23	1.93	0.49
1:S:371:ARG:HG3	1:S:389:ILE:CD1	2.30	0.49
1:U:35:MET:HG3	1:U:39:ILE:HG21	1.95	0.49
1:U:869:UNK:O	1:U:870:UNK:CB	2.61	0.49
1:W:177:LYS:HE2	1:W:237:TYR:HE1	1.78	0.49
1:W:300:LEU:HD23	1:W:324:LEU:HD23	1.93	0.49
1:W:301:LEU:O	1:W:302:LEU:C	2.53	0.49
1:W:369:PHE:CD1	1:W:411:VAL:HG22	2.47	0.49
1:W:432:LYS:CD	1:W:432:LYS:C	2.86	0.49
1:W:869:UNK:O	1:W:870:UNK:CB	2.61	0.49
1:Y:18:VAL:CG2	1:Y:103:THR:HG23	2.43	0.49
1:Y:253:TRP:C	1:Y:255:ALA:N	2.67	0.49
1:Y:305:LEU:HD13	1:Y:305:LEU:C	2.34	0.49
1:a:35:MET:CE	1:a:39:ILE:CD1	2.77	0.49
1:a:233:LYS:H	1:a:233:LYS:HD3	1.78	0.49
1:a:869:UNK:O	1:a:870:UNK:CB	2.61	0.49
1:a:911:UNK:O	1:a:912:UNK:C	2.59	0.49
2:b:57:GLY:N	2:b:59:PRO:CD	2.75	0.49
1:c:35:MET:CE	1:c:40:LEU:HG	2.43	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:c:374:VAL:HG23	1:c:375:PHE:N	2.28	0.49
1:c:419:THR:OG1	1:c:420:ILE:N	2.46	0.49
1:e:35:MET:HG3	1:e:39:ILE:HG21	1.95	0.49
1:e:422:ILE:C	1:e:427:LEU:HD12	2.38	0.49
1:e:493:ASP:O	1:e:496:PHE:HB3	2.12	0.49
1:A:279:THR:C	1:A:280:THR:HG23	2.35	0.49
1:A:288:HIS:HD2	1:A:288:HIS:H	1.57	0.49
1:A:300:LEU:O	1:A:301:LEU:C	2.52	0.49
1:A:357:LEU:CD2	1:A:430:LYS:HE2	2.42	0.49
1:A:374:VAL:HG23	1:A:375:PHE:N	2.28	0.49
1:C:165:CYS:SG	1:C:180:TRP:HZ2	2.35	0.49
1:C:177:LYS:HE2	1:C:237:TYR:HE1	1.78	0.49
1:C:369:PHE:CD1	1:C:411:VAL:HG22	2.47	0.49
2:D:33:ARG:O	2:D:97:ILE:HD12	2.12	0.49
1:E:300:LEU:O	1:E:304:TYR:CE1	2.65	0.49
1:E:382:PRO:HD3	1:E:466:TYR:CD2	2.47	0.49
1:E:432:LYS:CD	1:E:432:LYS:C	2.86	0.49
1:E:1187:UNK:O	1:E:1188:UNK:C	2.59	0.49
2:F:58:LYS:C	2:F:60:PHE:H	2.19	0.49
1:G:237:TYR:CD1	1:G:237:TYR:N	2.80	0.49
1:G:251:LYS:HD2	1:G:252:ALA:HA	1.94	0.49
1:G:340:ASN:HB3	1:G:344:VAL:CB	2.41	0.49
1:G:398:VAL:O	1:G:402:VAL:HG22	2.12	0.49
1:I:39:ILE:HG23	1:I:40:LEU:H	1.78	0.49
1:I:243:VAL:CG1	1:I:263:LEU:HD23	2.41	0.49
1:I:336:ALA:CB	1:I:340:ASN:OD1	2.56	0.49
1:I:357:LEU:CD2	1:I:430:LYS:HE2	2.42	0.49
1:I:374:VAL:HG23	1:I:375:PHE:N	2.28	0.49
1:K:192:VAL:HG23	1:K:193:LEU:H	1.78	0.49
1:K:422:ILE:C	1:K:427:LEU:HD12	2.38	0.49
1:K:432:LYS:CD	1:K:432:LYS:C	2.86	0.49
1:K:493:ASP:O	1:K:496:PHE:HB3	2.12	0.49
1:M:301:LEU:O	1:M:302:LEU:C	2.53	0.49
2:N:43:ILE:HG22	2:N:44:LEU:N	2.26	0.49
1:O:100:SER:O	1:O:101:MET:C	2.55	0.49
1:O:129:GLN:CB	1:O:130:PRO:CD	2.84	0.49
1:O:131:TYR:HE2	1:O:135:ARG:HH12	1.60	0.49
1:O:177:LYS:HE2	1:O:237:TYR:HE1	1.78	0.49
1:O:192:VAL:HG11	1:O:221:ILE:HD11	1.88	0.49
1:O:221:ILE:CG2	1:O:222:HIS:N	2.76	0.49
1:O:233:LYS:H	1:O:233:LYS:HD3	1.78	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:O:493:ASP:O	1:O:496:PHE:HB3	2.12	0.49
1:O:911:UNK:O	1:O:912:UNK:C	2.59	0.49
1:Q:357:LEU:CD2	1:Q:430:LYS:HE2	2.42	0.49
1:S:192:VAL:HG23	1:S:221:ILE:CD1	2.30	0.49
1:S:397:ASP:O	1:S:401:VAL:HG23	2.13	0.49
1:S:398:VAL:O	1:S:402:VAL:HG22	2.12	0.49
2:T:33:ARG:O	2:T:97:ILE:HD12	2.12	0.49
1:W:12:TYR:CE1	1:W:96:GLN:HB2	2.48	0.49
1:W:186:CYS:CA	1:W:191:THR:HG21	2.40	0.49
1:W:379:ALA:HB1	1:W:470:HIS:NE2	2.27	0.49
1:W:410:LEU:HA	1:W:426:TYR:HE1	1.65	0.49
1:Y:93:LYS:HG2	1:Y:97:ARG:HH12	1.77	0.49
1:Y:432:LYS:CD	1:Y:432:LYS:C	2.86	0.49
1:a:35:MET:CE	1:a:40:LEU:HG	2.43	0.49
1:a:47:HIS:O	1:a:50:MET:HB3	2.12	0.49
1:a:177:LYS:HE2	1:a:237:TYR:HE1	1.78	0.49
1:a:221:ILE:CG2	1:a:222:HIS:N	2.76	0.49
1:c:301:LEU:O	1:c:302:LEU:C	2.53	0.49
2:d:44:LEU:H	2:d:44:LEU:CD1	2.15	0.49
1:e:35:MET:CE	1:e:39:ILE:CD1	2.77	0.49
1:e:48:ILE:C	1:e:50:MET:N	2.66	0.49
1:e:151:GLY:HA2	1:e:286:ASP:CG	2.30	0.49
1:e:192:VAL:HG23	1:e:193:LEU:H	1.78	0.49
1:e:374:VAL:HG23	1:e:375:PHE:N	2.28	0.49
2:f:43:ILE:HG22	2:f:44:LEU:CG	2.43	0.49
1:A:39:ILE:HG23	1:A:40:LEU:H	1.78	0.49
1:A:369:PHE:CD1	1:A:411:VAL:HG22	2.47	0.49
1:A:410:LEU:CD2	1:A:427:LEU:HB2	2.40	0.49
1:C:12:TYR:CE1	1:C:96:GLN:HB2	2.48	0.49
1:C:131:TYR:HE2	1:C:135:ARG:HH12	1.60	0.49
1:C:138:LEU:HD21	1:C:170:VAL:HG11	1.78	0.49
1:C:376:PRO:HG2	1:C:470:HIS:NE2	2.28	0.49
1:C:379:ALA:HB1	1:C:470:HIS:NE2	2.27	0.49
1:C:493:ASP:O	1:C:496:PHE:HB3	2.12	0.49
1:E:35:MET:CE	1:E:39:ILE:CD1	2.77	0.49
1:E:35:MET:CE	1:E:40:LEU:HG	2.43	0.49
1:E:251:LYS:HD2	1:E:252:ALA:HA	1.94	0.49
1:E:422:ILE:C	1:E:427:LEU:HD12	2.38	0.49
2:F:43:ILE:HG22	2:F:44:LEU:CG	2.43	0.49
2:F:87:TYR:O	2:F:91:ILE:HG13	2.12	0.49
1:G:35:MET:CE	1:G:39:ILE:CD1	2.77	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:192:VAL:HG23	1:G:193:LEU:H	1.78	0.49
1:G:374:VAL:HG23	1:G:375:PHE:N	2.28	0.49
1:G:493:ASP:O	1:G:496:PHE:HB3	2.12	0.49
1:I:410:LEU:CG	1:I:423:PRO:CD	2.47	0.49
1:K:39:ILE:O	1:K:40:LEU:HD23	1.94	0.49
1:K:221:ILE:CG2	1:K:222:HIS:N	2.76	0.49
1:K:357:LEU:CD2	1:K:430:LYS:HE2	2.42	0.49
1:K:374:VAL:HG23	1:K:375:PHE:N	2.28	0.49
1:K:379:ALA:HB1	1:K:470:HIS:NE2	2.27	0.49
2:L:43:ILE:HG22	2:L:44:LEU:CG	2.43	0.49
1:M:35:MET:CE	1:M:39:ILE:CD1	2.77	0.49
1:M:221:ILE:CG2	1:M:222:HIS:N	2.76	0.49
1:O:47:HIS:O	1:O:50:MET:HB3	2.12	0.49
1:O:251:LYS:HD2	1:O:252:ALA:HA	1.94	0.49
1:O:251:LYS:CD	1:O:251:LYS:C	2.86	0.49
1:O:422:ILE:C	1:O:427:LEU:HD12	2.38	0.49
2:P:35:ALA:HB1	2:P:49:LEU:HD11	1.92	0.49
1:Q:93:LYS:HG2	1:Q:97:ARG:HH12	1.77	0.49
1:Q:300:LEU:O	1:Q:304:TYR:CE1	2.65	0.49
1:Q:410:LEU:CD2	1:Q:427:LEU:HB2	2.40	0.49
2:R:57:GLY:N	2:R:59:PRO:CD	2.75	0.49
2:R:87:TYR:O	2:R:91:ILE:HG13	2.12	0.49
1:S:374:VAL:HG23	1:S:375:PHE:N	2.28	0.49
1:U:35:MET:HE3	1:U:80:VAL:HG11	1.94	0.49
1:U:82:ARG:CG	1:U:82:ARG:NH1	2.73	0.49
1:U:188:SER:N	1:U:191:THR:CG2	2.73	0.49
1:U:251:LYS:HD2	1:U:252:ALA:HA	1.94	0.49
1:U:300:LEU:O	1:U:304:TYR:CE1	2.65	0.49
1:U:422:ILE:C	1:U:427:LEU:HD12	2.38	0.49
1:U:432:LYS:CD	1:U:432:LYS:C	2.86	0.49
2:V:87:TYR:O	2:V:91:ILE:HG13	2.12	0.49
1:W:131:TYR:HE2	1:W:135:ARG:HH12	1.60	0.49
1:W:165:CYS:SG	1:W:180:TRP:HZ2	2.35	0.49
1:W:493:ASP:O	1:W:496:PHE:HB3	2.12	0.49
1:W:520:GLN:NE2	1:W:546:LEU:HD21	2.27	0.49
1:Y:12:TYR:CE1	1:Y:96:GLN:HB2	2.48	0.49
1:Y:300:LEU:O	1:Y:304:TYR:CE1	2.65	0.49
1:Y:357:LEU:CD2	1:Y:430:LYS:HE2	2.42	0.49
1:a:100:SER:O	1:a:101:MET:C	2.55	0.49
1:a:131:TYR:HE2	1:a:135:ARG:HH12	1.60	0.49
1:a:422:ILE:C	1:a:427:LEU:HD12	2.38	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:a:520:GLN:NE2	1:a:546:LEU:HD21	2.27	0.49
2:b:35:ALA:HB1	2:b:49:LEU:HD11	1.92	0.49
1:c:93:LYS:HG2	1:c:97:ARG:HH12	1.77	0.49
1:c:221:ILE:CG2	1:c:222:HIS:N	2.76	0.49
2:d:57:GLY:N	2:d:59:PRO:CD	2.75	0.49
1:e:52:LYS:CD	1:e:52:LYS:C	2.86	0.49
1:e:397:ASP:O	1:e:401:VAL:HG23	2.13	0.49
1:e:432:LYS:C	1:e:432:LYS:CD	2.86	0.49
2:f:33:ARG:O	2:f:97:ILE:HD12	2.12	0.49
1:A:15:ILE:HG21	1:A:95:GLU:HB3	1.78	0.49
1:A:35:MET:HE3	1:A:39:ILE:HD13	1.89	0.49
1:A:422:ILE:C	1:A:427:LEU:HD12	2.38	0.49
1:A:911:UNK:O	1:A:912:UNK:C	2.59	0.49
1:C:93:LYS:HG2	1:C:97:ARG:HH12	1.77	0.49
1:C:216:ASN:HB2	1:C:219:LEU:CB	2.39	0.49
1:C:235:LYS:CE	1:C:235:LYS:CA	2.85	0.49
1:C:300:LEU:O	1:C:304:TYR:CE1	2.65	0.49
1:E:29:CYS:HA	1:E:32:VAL:CG2	2.41	0.49
1:E:84:ASN:OD1	1:E:85:TYR:CE2	2.66	0.49
1:E:300:LEU:HD23	1:E:324:LEU:HD23	1.93	0.49
2:F:33:ARG:O	2:F:97:ILE:HD12	2.12	0.49
1:G:186:CYS:C	1:G:191:THR:CG2	2.64	0.49
1:G:186:CYS:CA	1:G:191:THR:HG21	2.40	0.49
1:G:379:ALA:HB1	1:G:470:HIS:NE2	2.27	0.49
1:G:432:LYS:CD	1:G:432:LYS:C	2.86	0.49
2:H:57:GLY:N	2:H:59:PRO:CD	2.75	0.49
1:I:177:LYS:HE2	1:I:237:TYR:HE1	1.78	0.49
1:I:288:HIS:HD2	1:I:288:HIS:H	1.57	0.49
1:I:369:PHE:CD1	1:I:411:VAL:HG22	2.47	0.49
1:I:410:LEU:CD2	1:I:427:LEU:HB2	2.40	0.49
1:I:422:ILE:C	1:I:427:LEU:HD12	2.38	0.49
2:J:58:LYS:C	2:J:60:PHE:N	2.69	0.49
1:K:186:CYS:CA	1:K:191:THR:HG21	2.40	0.49
1:K:275:LEU:HB3	1:K:280:THR:HG21	1.94	0.49
1:K:382:PRO:HG2	1:K:385:LEU:HD12	1.93	0.49
1:K:397:ASP:O	1:K:401:VAL:HG23	2.13	0.49
1:K:398:VAL:O	1:K:402:VAL:HG22	2.12	0.49
1:M:93:LYS:HG2	1:M:97:ARG:HH12	1.77	0.49
1:M:233:LYS:H	1:M:233:LYS:HD3	1.78	0.49
1:M:432:LYS:CD	1:M:432:LYS:C	2.86	0.49
2:N:57:GLY:N	2:N:59:PRO:CD	2.75	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Q:12:TYR:CE1	1:Q:96:GLN:HB2	2.48	0.49
1:Q:221:ILE:CG2	1:Q:222:HIS:N	2.76	0.49
1:Q:275:LEU:HB3	1:Q:280:THR:HG21	1.94	0.49
1:S:93:LYS:HG2	1:S:97:ARG:HH12	1.77	0.49
1:S:186:CYS:C	1:S:191:THR:CG2	2.64	0.49
1:S:192:VAL:HG23	1:S:193:LEU:H	1.78	0.49
1:S:251:LYS:HD2	1:S:252:ALA:HA	1.94	0.49
1:S:379:ALA:HB1	1:S:470:HIS:NE2	2.27	0.49
1:S:493:ASP:O	1:S:496:PHE:HB3	2.12	0.49
1:S:869:UNK:O	1:S:870:UNK:CB	2.61	0.49
1:U:12:TYR:CE1	1:U:96:GLN:HB2	2.48	0.49
1:U:35:MET:CE	1:U:40:LEU:HG	2.43	0.49
1:U:84:ASN:OD1	1:U:85:TYR:CE2	2.66	0.49
1:U:300:LEU:HD23	1:U:324:LEU:HD23	1.93	0.49
2:V:43:ILE:HG22	2:V:44:LEU:CG	2.43	0.49
1:W:216:ASN:HB2	1:W:219:LEU:CB	2.39	0.49
1:W:300:LEU:O	1:W:304:TYR:CE1	2.65	0.49
1:W:376:PRO:HG2	1:W:470:HIS:NE2	2.28	0.49
2:X:57:GLY:O	2:X:59:PRO:HD2	2.06	0.49
1:Y:221:ILE:CG2	1:Y:222:HIS:N	2.76	0.49
1:Y:404:LYS:HA	1:Y:404:LYS:CE	2.40	0.49
2:Z:17:HIS:HD2	2:Z:109:VAL:HG11	1.77	0.49
2:Z:57:GLY:N	2:Z:59:PRO:CD	2.75	0.49
1:a:93:LYS:HG2	1:a:97:ARG:HH12	1.77	0.49
1:a:251:LYS:HD2	1:a:252:ALA:HA	1.94	0.49
1:a:279:THR:C	1:a:280:THR:HG23	2.35	0.49
1:c:233:LYS:H	1:c:233:LYS:HD3	1.78	0.49
1:c:251:LYS:HD2	1:c:252:ALA:HA	1.94	0.49
1:c:432:LYS:CD	1:c:432:LYS:C	2.86	0.49
1:e:221:ILE:CG2	1:e:222:HIS:N	2.76	0.49
1:e:357:LEU:CD2	1:e:430:LYS:HE2	2.42	0.49
1:e:376:PRO:HG2	1:e:470:HIS:NE2	2.28	0.49
1:e:379:ALA:HB1	1:e:470:HIS:NE2	2.27	0.49
1:A:35:MET:HG3	1:A:39:ILE:HG21	1.95	0.49
1:A:131:TYR:HE2	1:A:135:ARG:HH12	1.60	0.49
1:A:177:LYS:HE2	1:A:237:TYR:HE1	1.78	0.49
1:A:251:LYS:CD	1:A:251:LYS:C	2.86	0.49
1:A:336:ALA:CB	1:A:340:ASN:OD1	2.56	0.49
1:A:493:ASP:O	1:A:496:PHE:HB3	2.12	0.49
1:A:1187:UNK:O	1:A:1188:UNK:C	2.59	0.49
1:C:402:VAL:O	1:C:406:HIS:N	2.46	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:35:MET:HE3	1:E:80:VAL:HG11	1.94	0.49
1:E:177:LYS:HE2	1:E:237:TYR:HE1	1.78	0.49
1:E:357:LEU:HB3	1:E:366:ARG:CD	2.43	0.49
1:E:562:LEU:CD1	1:E:580:GLN:HG3	2.43	0.49
2:F:57:GLY:N	2:F:59:PRO:CD	2.75	0.49
1:G:15:ILE:HG21	1:G:95:GLU:HB3	1.78	0.49
1:G:35:MET:HE3	1:G:39:ILE:HD13	1.89	0.49
1:G:84:ASN:OD1	1:G:85:TYR:CE2	2.66	0.49
1:G:562:LEU:CD1	1:G:580:GLN:HG3	2.43	0.49
1:I:35:MET:HE3	1:I:39:ILE:HD13	1.89	0.49
1:I:251:LYS:CD	1:I:251:LYS:C	2.86	0.49
1:I:379:ALA:HB1	1:I:470:HIS:NE2	2.27	0.49
1:I:562:LEU:CD1	1:I:580:GLN:HG3	2.43	0.49
2:J:57:GLY:N	2:J:59:PRO:CD	2.75	0.49
1:K:52:LYS:CD	1:K:52:LYS:C	2.86	0.49
1:K:376:PRO:HG2	1:K:470:HIS:NE2	2.28	0.49
2:L:33:ARG:O	2:L:97:ILE:HD12	2.12	0.49
1:M:18:VAL:CG2	1:M:103:THR:HG23	2.43	0.49
1:M:84:ASN:OD1	1:M:85:TYR:CE2	2.66	0.49
1:M:109:GLN:O	1:M:110:ARG:C	2.51	0.49
1:M:251:LYS:HD2	1:M:252:ALA:HA	1.94	0.49
1:M:360:LEU:CD1	1:M:365:TYR:CB	2.69	0.49
1:O:35:MET:HG3	1:O:39:ILE:HG21	1.95	0.49
1:Q:35:MET:HG3	1:Q:39:ILE:HG21	1.95	0.49
1:S:35:MET:HE3	1:S:39:ILE:HD13	1.89	0.49
1:S:84:ASN:OD1	1:S:85:TYR:CE2	2.66	0.49
2:T:57:GLY:N	2:T:59:PRO:CD	2.75	0.49
1:U:29:CYS:HA	1:U:32:VAL:CG2	2.41	0.49
1:U:243:VAL:CG1	1:U:263:LEU:CG	2.73	0.49
1:U:562:LEU:CD1	1:U:580:GLN:HG3	2.43	0.49
2:V:33:ARG:O	2:V:97:ILE:HD12	2.12	0.49
1:W:360:LEU:CD1	1:W:365:TYR:CB	2.69	0.49
1:W:402:VAL:O	1:W:406:HIS:N	2.46	0.49
1:Y:233:LYS:H	1:Y:233:LYS:HD3	1.78	0.49
1:Y:243:VAL:CG1	1:Y:263:LEU:HD23	2.41	0.49
1:Y:275:LEU:HB3	1:Y:280:THR:HG21	1.94	0.49
2:Z:87:TYR:O	2:Z:91:ILE:HG13	2.12	0.49
1:a:35:MET:HG3	1:a:39:ILE:HG21	1.95	0.49
1:a:251:LYS:CD	1:a:251:LYS:C	2.86	0.49
1:c:166:LEU:CD2	1:c:167:SER:N	2.73	0.49
1:e:120:PHE:O	1:e:121:ALA:C	2.54	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:e:200:LEU:HD21	1:e:207:TRP:HD1	1.76	0.49
1:e:382:PRO:HG2	1:e:385:LEU:HD12	1.93	0.49
1:A:32:VAL:HG12	1:A:35:MET:SD	2.53	0.48
1:A:188:SER:N	1:A:191:THR:CG2	2.73	0.48
1:A:300:LEU:O	1:A:304:TYR:CE1	2.65	0.48
1:A:379:ALA:HB1	1:A:470:HIS:NE2	2.27	0.48
1:A:562:LEU:CD1	1:A:580:GLN:HG3	2.43	0.48
2:B:58:LYS:C	2:B:60:PHE:N	2.69	0.48
1:C:419:THR:OG1	1:C:420:ILE:N	2.46	0.48
2:D:57:GLY:O	2:D:59:PRO:HD2	2.06	0.48
1:E:12:TYR:CE1	1:E:96:GLN:HB2	2.48	0.48
1:E:82:ARG:CG	1:E:82:ARG:NH1	2.73	0.48
1:E:186:CYS:C	1:E:191:THR:CG2	2.64	0.48
1:E:188:SER:N	1:E:191:THR:CG2	2.73	0.48
1:E:372:LEU:HD13	1:E:422:ILE:HG21	1.95	0.48
1:G:93:LYS:HG2	1:G:97:ARG:HH12	1.77	0.48
1:G:422:ILE:C	1:G:427:LEU:HD12	2.38	0.48
1:I:32:VAL:HG12	1:I:35:MET:SD	2.53	0.48
1:I:35:MET:HG3	1:I:39:ILE:HG21	1.95	0.48
1:I:188:SER:N	1:I:191:THR:CG2	2.73	0.48
1:I:279:THR:C	1:I:280:THR:HG23	2.35	0.48
1:I:911:UNK:O	1:I:912:UNK:C	2.59	0.48
1:K:18:VAL:CG2	1:K:103:THR:HG23	2.43	0.48
1:K:177:LYS:HE2	1:K:237:TYR:HE1	1.78	0.48
1:K:200:LEU:HD21	1:K:207:TRP:HD1	1.76	0.48
1:M:200:LEU:HD21	1:M:207:TRP:HD1	1.76	0.48
1:M:869:UNK:O	1:M:870:UNK:CB	2.61	0.48
1:O:93:LYS:HG2	1:O:97:ARG:HH12	1.77	0.48
1:O:142:ARG:O	1:O:261:LYS:HG2	2.13	0.48
1:O:279:THR:C	1:O:280:THR:HG23	2.35	0.48
1:O:374:VAL:HG23	1:O:375:PHE:N	2.28	0.48
1:Q:40:LEU:CD2	1:Q:40:LEU:N	2.73	0.48
1:Q:142:ARG:O	1:Q:261:LYS:HG2	2.13	0.48
1:Q:233:LYS:H	1:Q:233:LYS:HD3	1.78	0.48
1:Q:253:TRP:C	1:Q:255:ALA:N	2.67	0.48
1:Q:402:VAL:O	1:Q:406:HIS:N	2.46	0.48
2:R:17:HIS:HD2	2:R:109:VAL:HG11	1.77	0.48
1:S:422:ILE:C	1:S:427:LEU:HD12	2.38	0.48
1:S:432:LYS:CD	1:S:432:LYS:C	2.86	0.48
1:S:562:LEU:CD1	1:S:580:GLN:HG3	2.43	0.48
2:T:44:LEU:H	2:T:44:LEU:CD1	2.15	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:U:102:MET:HA	1:U:105:MET:HB3	1.95	0.48
1:U:177:LYS:HE2	1:U:237:TYR:HE1	1.78	0.48
1:U:184:LYS:HB2	1:U:184:LYS:HZ2	1.78	0.48
1:U:186:CYS:C	1:U:191:THR:CG2	2.64	0.48
1:U:357:LEU:HB3	1:U:366:ARG:CD	2.43	0.48
1:U:372:LEU:HD13	1:U:422:ILE:HG21	1.95	0.48
1:U:397:ASP:O	1:U:401:VAL:HG23	2.13	0.48
2:V:57:GLY:N	2:V:59:PRO:CD	2.75	0.48
1:W:39:ILE:HG23	1:W:40:LEU:H	1.78	0.48
1:W:93:LYS:HG2	1:W:97:ARG:HH12	1.77	0.48
1:W:562:LEU:CD1	1:W:580:GLN:HG3	2.43	0.48
1:Y:35:MET:HG3	1:Y:39:ILE:HG21	1.95	0.48
1:Y:142:ARG:O	1:Y:261:LYS:HG2	2.13	0.48
1:Y:402:VAL:O	1:Y:406:HIS:N	2.46	0.48
1:Y:410:LEU:CD2	1:Y:427:LEU:HB2	2.40	0.48
1:a:142:ARG:O	1:a:261:LYS:HG2	2.13	0.48
1:a:377:PRO:HB3	1:a:428:GLU:CG	2.43	0.48
1:c:18:VAL:CG2	1:c:103:THR:HG23	2.43	0.48
1:c:19:PHE:CZ	1:c:92:ILE:HD13	2.28	0.48
1:c:84:ASN:OD1	1:c:85:TYR:CE2	2.66	0.48
1:c:251:LYS:CD	1:c:251:LYS:C	2.86	0.48
1:e:251:LYS:HD2	1:e:252:ALA:HA	1.94	0.48
1:e:275:LEU:HB3	1:e:280:THR:HG21	1.94	0.48
1:e:398:VAL:O	1:e:402:VAL:HG22	2.12	0.48
1:e:464:ASP:OD1	1:e:501:ILE:CD1	2.49	0.48
1:A:237:TYR:CD1	1:A:237:TYR:N	2.80	0.48
1:A:432:LYS:CD	1:A:432:LYS:C	2.86	0.48
2:B:57:GLY:N	2:B:59:PRO:CD	2.75	0.48
1:C:15:ILE:HD12	1:C:96:GLN:N	2.29	0.48
1:C:39:ILE:HG23	1:C:40:LEU:H	1.78	0.48
1:C:114:TYR:C	1:C:117:ASN:O	2.53	0.48
1:C:536:GLU:O	1:C:539:VAL:HG13	2.14	0.48
1:C:562:LEU:CD1	1:C:580:GLN:HG3	2.43	0.48
1:E:32:VAL:HG12	1:E:35:MET:SD	2.53	0.48
1:G:18:VAL:CG2	1:G:103:THR:HG23	2.43	0.48
1:G:192:VAL:HG23	1:G:221:ILE:HD12	1.92	0.48
1:G:402:VAL:O	1:G:406:HIS:N	2.46	0.48
1:G:1187:UNK:O	1:G:1188:UNK:C	2.59	0.48
1:I:29:CYS:HA	1:I:32:VAL:CG2	2.41	0.48
1:I:84:ASN:OD1	1:I:85:TYR:CE2	2.66	0.48
1:I:131:TYR:HE2	1:I:135:ARG:HH12	1.60	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:178:ILE:HG23	1:I:241:LEU:HD22	1.90	0.48
1:I:300:LEU:O	1:I:304:TYR:CE1	2.65	0.48
1:I:371:ARG:HG3	1:I:389:ILE:CD1	2.30	0.48
1:I:397:ASP:O	1:I:401:VAL:HG23	2.13	0.48
1:I:402:VAL:O	1:I:406:HIS:N	2.46	0.48
1:I:432:LYS:CD	1:I:432:LYS:C	2.86	0.48
1:I:493:ASP:O	1:I:496:PHE:HB3	2.12	0.48
1:I:1187:UNK:O	1:I:1188:UNK:C	2.59	0.48
1:K:84:ASN:OD1	1:K:85:TYR:CE2	2.66	0.48
1:K:233:LYS:H	1:K:233:LYS:HD3	1.78	0.48
1:K:911:UNK:O	1:K:912:UNK:C	2.59	0.48
1:M:19:PHE:CZ	1:M:92:ILE:HD13	2.28	0.48
1:M:166:LEU:CD2	1:M:167:SER:N	2.73	0.48
1:M:251:LYS:CD	1:M:251:LYS:C	2.86	0.48
1:O:377:PRO:HB3	1:O:428:GLU:CG	2.43	0.48
2:P:43:ILE:HG22	2:P:44:LEU:CD1	2.44	0.48
1:Q:15:ILE:HD12	1:Q:96:GLN:N	2.29	0.48
1:Q:243:VAL:CG1	1:Q:263:LEU:HD23	2.41	0.48
1:Q:301:LEU:O	1:Q:302:LEU:C	2.53	0.48
1:Q:410:LEU:HA	1:Q:426:TYR:HE1	1.65	0.48
1:Q:562:LEU:CD1	1:Q:580:GLN:HG3	2.43	0.48
1:S:35:MET:CE	1:S:39:ILE:CD1	2.77	0.48
1:S:88:LEU:CA	1:S:91:PRO:HD2	2.39	0.48
1:S:186:CYS:CA	1:S:191:THR:HG21	2.40	0.48
1:S:1187:UNK:O	1:S:1188:UNK:C	2.59	0.48
1:U:32:VAL:HG12	1:U:35:MET:SD	2.53	0.48
1:U:76:PHE:CD1	1:U:76:PHE:C	2.88	0.48
1:U:404:LYS:HE2	1:U:404:LYS:CA	2.41	0.48
1:W:15:ILE:HD12	1:W:96:GLN:N	2.29	0.48
1:W:48:ILE:C	1:W:50:MET:N	2.66	0.48
1:W:235:LYS:CE	1:W:235:LYS:CA	2.85	0.48
1:W:251:LYS:HD2	1:W:252:ALA:HA	1.94	0.48
1:W:419:THR:OG1	1:W:420:ILE:N	2.46	0.48
1:W:425:ILE:HD12	1:W:425:ILE:C	2.38	0.48
1:W:536:GLU:O	1:W:539:VAL:HG13	2.14	0.48
2:X:43:ILE:HG22	2:X:44:LEU:CD1	2.44	0.48
1:Y:15:ILE:HD12	1:Y:96:GLN:N	2.29	0.48
1:Y:455:SER:OG	1:Y:459:ILE:O	2.12	0.48
1:Y:562:LEU:CD1	1:Y:580:GLN:HG3	2.43	0.48
1:a:374:VAL:HG23	1:a:375:PHE:N	2.28	0.48
1:a:419:THR:OG1	1:a:420:ILE:N	2.46	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:c:35:MET:CE	1:c:39:ILE:CD1	2.77	0.48
1:c:340:ASN:HB3	1:c:344:VAL:CB	2.41	0.48
1:c:357:LEU:CD2	1:c:430:LYS:HE2	2.42	0.48
1:c:360:LEU:CD1	1:c:365:TYR:CB	2.69	0.48
1:c:869:UNK:O	1:c:870:UNK:CB	2.61	0.48
2:d:58:LYS:C	2:d:60:PHE:N	2.69	0.48
1:e:18:VAL:CG2	1:e:103:THR:HG23	2.43	0.48
1:e:84:ASN:OD1	1:e:85:TYR:CE2	2.66	0.48
1:e:177:LYS:HE2	1:e:237:TYR:HE1	1.78	0.48
1:e:186:CYS:CA	1:e:191:THR:HG21	2.40	0.48
1:e:233:LYS:H	1:e:233:LYS:HD3	1.78	0.48
1:e:357:LEU:HB3	1:e:366:ARG:CD	2.43	0.48
1:e:911:UNK:O	1:e:912:UNK:C	2.59	0.48
2:f:17:HIS:HD2	2:f:109:VAL:HG11	1.77	0.48
1:A:15:ILE:HD12	1:A:96:GLN:N	2.29	0.48
1:A:19:PHE:CZ	1:A:92:ILE:HD13	2.28	0.48
1:A:84:ASN:OD1	1:A:85:TYR:CE2	2.66	0.48
1:A:397:ASP:O	1:A:401:VAL:HG23	2.13	0.48
1:A:402:VAL:O	1:A:406:HIS:N	2.46	0.48
1:C:251:LYS:HD2	1:C:252:ALA:HA	1.94	0.48
1:E:15:ILE:HD12	1:E:96:GLN:N	2.29	0.48
1:E:76:PHE:C	1:E:76:PHE:CD1	2.88	0.48
1:E:131:TYR:HE2	1:E:135:ARG:HH12	1.60	0.48
1:E:397:ASP:O	1:E:401:VAL:HG23	2.13	0.48
1:E:402:VAL:O	1:E:406:HIS:N	2.46	0.48
1:E:536:GLU:O	1:E:539:VAL:HG13	2.14	0.48
1:I:15:ILE:HD12	1:I:96:GLN:N	2.29	0.48
1:I:376:PRO:HG2	1:I:470:HIS:NE2	2.28	0.48
1:K:120:PHE:O	1:K:121:ALA:C	2.54	0.48
1:K:251:LYS:HD2	1:K:252:ALA:HA	1.94	0.48
1:K:882:UNK:N	1:K:883:UNK:N	2.61	0.48
2:L:17:HIS:HD2	2:L:109:VAL:HG11	1.77	0.48
1:M:82:ARG:CG	1:M:82:ARG:NH1	2.73	0.48
1:M:357:LEU:CD2	1:M:430:LYS:HE2	2.42	0.48
2:N:58:LYS:C	2:N:60:PHE:N	2.69	0.48
1:O:18:VAL:CG2	1:O:103:THR:HG23	2.43	0.48
1:O:32:VAL:HG12	1:O:35:MET:SD	2.53	0.48
1:O:39:ILE:HG23	1:O:40:LEU:H	1.78	0.48
1:O:327:ILE:CG2	1:O:341:TRP:CE3	2.84	0.48
1:O:419:THR:OG1	1:O:420:ILE:N	2.46	0.48
1:O:432:LYS:CD	1:O:432:LYS:C	2.86	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Q:19:PHE:CZ	1:Q:92:ILE:HD13	2.28	0.48
1:S:12:TYR:CE1	1:S:96:GLN:HB2	2.48	0.48
1:S:376:PRO:HG2	1:S:470:HIS:NE2	2.28	0.48
1:S:402:VAL:O	1:S:406:HIS:N	2.46	0.48
1:U:15:ILE:HD12	1:U:96:GLN:N	2.29	0.48
1:U:35:MET:CE	1:U:39:ILE:CD1	2.77	0.48
1:U:192:VAL:HG23	1:U:193:LEU:H	1.78	0.48
1:U:251:LYS:CD	1:U:251:LYS:C	2.86	0.48
1:W:114:TYR:C	1:W:117:ASN:O	2.53	0.48
1:W:275:LEU:HB3	1:W:280:THR:HG21	1.94	0.48
2:X:17:HIS:HD2	2:X:109:VAL:HG11	1.77	0.48
1:Y:40:LEU:CD2	1:Y:40:LEU:N	2.73	0.48
1:Y:251:LYS:CD	1:Y:251:LYS:C	2.86	0.48
1:Y:301:LEU:O	1:Y:302:LEU:C	2.53	0.48
1:a:32:VAL:HG12	1:a:35:MET:SD	2.53	0.48
1:a:376:PRO:HG2	1:a:470:HIS:NE2	2.28	0.48
1:c:200:LEU:HD21	1:c:207:TRP:HD1	1.76	0.48
1:e:35:MET:CE	1:e:40:LEU:HG	2.43	0.48
1:e:882:UNK:N	1:e:883:UNK:N	2.61	0.48
1:e:990:UNK:C	1:e:992:UNK:N	2.76	0.48
1:A:29:CYS:HA	1:A:32:VAL:CG2	2.41	0.48
1:A:63:TRP:HZ2	1:A:131:TYR:CE1	2.32	0.48
1:A:376:PRO:HG2	1:A:470:HIS:NE2	2.28	0.48
1:C:118:GLN:HE21	1:E:279:THR:CG2	2.15	0.48
1:C:275:LEU:HB3	1:C:280:THR:HG21	1.94	0.48
1:C:397:ASP:O	1:C:401:VAL:HG23	2.13	0.48
1:C:422:ILE:C	1:C:427:LEU:HD12	2.38	0.48
1:C:425:ILE:HD12	1:C:425:ILE:C	2.38	0.48
1:C:488:ARG:NH1	1:C:488:ARG:HG3	2.29	0.48
2:D:43:ILE:HG22	2:D:44:LEU:CG	2.43	0.48
2:D:43:ILE:HG22	2:D:44:LEU:CD1	2.44	0.48
1:E:52:LYS:CD	1:E:52:LYS:C	2.86	0.48
1:E:109:GLN:NE2	1:E:176:PHE:HB3	2.29	0.48
1:E:251:LYS:CD	1:E:251:LYS:C	2.86	0.48
1:G:251:LYS:CD	1:G:251:LYS:C	2.86	0.48
1:G:376:PRO:HG2	1:G:470:HIS:NE2	2.28	0.48
1:I:19:PHE:CZ	1:I:92:ILE:HD13	2.28	0.48
1:I:63:TRP:HZ2	1:I:131:TYR:CE1	2.32	0.48
1:I:237:TYR:CD1	1:I:237:TYR:N	2.80	0.48
1:K:35:MET:CE	1:K:40:LEU:HG	2.43	0.48
1:K:279:THR:C	1:K:280:THR:HG23	2.35	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:357:LEU:HB3	1:K:366:ARG:CD	2.43	0.48
1:K:402:VAL:O	1:K:406:HIS:N	2.46	0.48
1:K:562:LEU:CD1	1:K:580:GLN:HG3	2.43	0.48
1:K:990:UNK:C	1:K:992:UNK:N	2.76	0.48
1:M:258:LEU:HD13	1:M:258:LEU:N	2.26	0.48
1:M:340:ASN:HB3	1:M:344:VAL:CB	2.41	0.48
1:M:911:UNK:O	1:M:912:UNK:C	2.59	0.48
1:O:84:ASN:OD1	1:O:85:TYR:CE2	2.66	0.48
1:O:301:LEU:O	1:O:302:LEU:C	2.53	0.48
1:O:376:PRO:HG2	1:O:470:HIS:NE2	2.28	0.48
2:P:44:LEU:H	2:P:44:LEU:CD1	2.15	0.48
1:Q:109:GLN:NE2	1:Q:176:PHE:HB3	2.29	0.48
1:Q:251:LYS:CD	1:Q:251:LYS:C	2.86	0.48
1:S:18:VAL:CG2	1:S:103:THR:HG23	2.43	0.48
1:S:188:SER:N	1:S:191:THR:CG2	2.73	0.48
1:S:536:GLU:O	1:S:539:VAL:HG13	2.14	0.48
1:U:109:GLN:NE2	1:U:176:PHE:HB3	2.29	0.48
1:U:131:TYR:HE2	1:U:135:ARG:HH12	1.60	0.48
1:U:374:VAL:HG23	1:U:375:PHE:N	2.28	0.48
1:U:376:PRO:HG2	1:U:470:HIS:NE2	2.28	0.48
1:U:402:VAL:O	1:U:406:HIS:N	2.46	0.48
1:U:536:GLU:O	1:U:539:VAL:HG13	2.14	0.48
1:W:397:ASP:O	1:W:401:VAL:HG23	2.13	0.48
1:W:422:ILE:C	1:W:427:LEU:HD12	2.38	0.48
1:W:488:ARG:NH1	1:W:488:ARG:HG3	2.29	0.48
2:X:43:ILE:HG22	2:X:44:LEU:CG	2.43	0.48
1:Y:35:MET:HE2	1:Y:40:LEU:HG	1.96	0.48
1:Y:109:GLN:NE2	1:Y:176:PHE:HB3	2.29	0.48
1:a:35:MET:HE2	1:a:40:LEU:HG	1.96	0.48
1:a:39:ILE:HG23	1:a:40:LEU:H	1.78	0.48
1:a:216:ASN:HB2	1:a:219:LEU:CB	2.39	0.48
1:a:301:LEU:O	1:a:302:LEU:C	2.53	0.48
1:a:486:LEU:HA	1:a:488:ARG:NH1	2.29	0.48
2:b:17:HIS:HD2	2:b:109:VAL:HG11	1.77	0.48
2:b:43:ILE:HG22	2:b:44:LEU:CD1	2.44	0.48
1:c:39:ILE:HG23	1:c:40:LEU:H	1.78	0.48
1:c:82:ARG:CG	1:c:82:ARG:NH1	2.73	0.48
1:c:109:GLN:O	1:c:110:ARG:C	2.51	0.48
1:c:151:GLY:HA2	1:c:286:ASP:CG	2.30	0.48
1:e:279:THR:C	1:e:280:THR:HG23	2.35	0.48
1:A:178:ILE:HG23	1:A:241:LEU:HD22	1.90	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:410:LEU:CG	1:A:423:PRO:CD	2.47	0.48
2:B:43:ILE:HG22	2:B:44:LEU:CD1	2.44	0.48
1:C:52:LYS:CD	1:C:52:LYS:C	2.86	0.48
1:C:287:HIS:ND1	1:C:288:HIS:N	2.59	0.48
2:D:17:HIS:HD2	2:D:109:VAL:HG11	1.77	0.48
1:E:192:VAL:HG23	1:E:193:LEU:H	1.78	0.48
1:E:243:VAL:CG1	1:E:263:LEU:CG	2.73	0.48
1:E:270:GLN:HA	1:E:273:ASP:HB3	1.96	0.48
1:E:376:PRO:HG2	1:E:470:HIS:NE2	2.28	0.48
1:E:404:LYS:HE2	1:E:404:LYS:CA	2.41	0.48
1:E:419:THR:OG1	1:E:420:ILE:N	2.46	0.48
2:F:44:LEU:H	2:F:44:LEU:CD1	2.15	0.48
1:G:12:TYR:CE1	1:G:96:GLN:HB2	2.48	0.48
1:G:63:TRP:HZ2	1:G:131:TYR:CE1	2.32	0.48
1:G:88:LEU:CA	1:G:91:PRO:HD2	2.39	0.48
1:G:536:GLU:O	1:G:539:VAL:HG13	2.14	0.48
1:I:221:ILE:CG2	1:I:222:HIS:N	2.76	0.48
1:I:251:LYS:HD2	1:I:252:ALA:HA	1.94	0.48
2:J:43:ILE:HG22	2:J:44:LEU:CD1	2.44	0.48
1:K:488:ARG:HH11	1:K:488:ARG:HG3	1.75	0.48
2:L:58:LYS:C	2:L:60:PHE:N	2.69	0.48
2:L:87:TYR:O	2:L:91:ILE:HG13	2.12	0.48
1:M:40:LEU:CD2	1:M:40:LEU:N	2.73	0.48
1:M:151:GLY:HA2	1:M:286:ASP:CG	2.30	0.48
1:O:35:MET:HE2	1:O:40:LEU:HG	1.96	0.48
1:O:216:ASN:HB2	1:O:219:LEU:CB	2.39	0.48
1:O:486:LEU:HA	1:O:488:ARG:NH1	2.29	0.48
1:Q:35:MET:HE2	1:Q:40:LEU:HG	1.96	0.48
1:Q:35:MET:CE	1:Q:40:LEU:HG	2.43	0.48
1:Q:52:LYS:C	1:Q:52:LYS:CD	2.86	0.48
1:Q:177:LYS:HE2	1:Q:237:TYR:HE1	1.78	0.48
1:S:15:ILE:HD12	1:S:96:GLN:N	2.29	0.48
1:S:129:GLN:CB	1:S:130:PRO:CD	2.84	0.48
1:S:251:LYS:CD	1:S:251:LYS:C	2.86	0.48
1:S:354:GLU:C	1:S:356:SER:H	2.22	0.48
1:U:19:PHE:CZ	1:U:92:ILE:HD13	2.28	0.48
1:U:52:LYS:C	1:U:52:LYS:CD	2.86	0.48
1:U:270:GLN:HA	1:U:273:ASP:HB3	1.96	0.48
1:U:354:GLU:C	1:U:356:SER:H	2.22	0.48
1:U:419:THR:OG1	1:U:420:ILE:N	2.46	0.48
1:W:35:MET:HE2	1:W:40:LEU:HG	1.96	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:W:52:LYS:CD	1:W:52:LYS:C	2.86	0.48
1:W:233:LYS:H	1:W:233:LYS:HD3	1.78	0.48
1:W:251:LYS:CD	1:W:251:LYS:C	2.86	0.48
1:Y:131:TYR:HE2	1:Y:135:ARG:HH12	1.60	0.48
1:Y:410:LEU:HA	1:Y:426:TYR:HE1	1.65	0.48
1:a:18:VAL:CG2	1:a:103:THR:HG23	2.43	0.48
1:a:84:ASN:OD1	1:a:85:TYR:CE2	2.66	0.48
1:a:327:ILE:CG2	1:a:341:TRP:CE3	2.84	0.48
1:a:536:GLU:O	1:a:539:VAL:HG13	2.14	0.48
1:c:258:LEU:HD13	1:c:258:LEU:N	2.26	0.48
1:c:402:VAL:O	1:c:406:HIS:N	2.46	0.48
1:e:402:VAL:O	1:e:406:HIS:N	2.46	0.48
1:e:562:LEU:CD1	1:e:580:GLN:HG3	2.43	0.48
2:f:58:LYS:C	2:f:60:PHE:N	2.69	0.48
1:A:35:MET:CE	1:A:40:LEU:HG	2.43	0.48
1:A:192:VAL:HG23	1:A:193:LEU:H	1.78	0.48
1:A:221:ILE:CG2	1:A:222:HIS:N	2.76	0.48
1:A:253:TRP:C	1:A:255:ALA:N	2.67	0.48
1:C:18:VAL:CG2	1:C:103:THR:HG23	2.43	0.48
1:C:32:VAL:HG12	1:C:35:MET:SD	2.53	0.48
1:C:35:MET:HE2	1:C:40:LEU:HG	1.96	0.48
1:C:48:ILE:C	1:C:50:MET:N	2.66	0.48
1:C:270:GLN:HA	1:C:273:ASP:HB3	1.96	0.48
1:E:374:VAL:HG23	1:E:375:PHE:N	2.28	0.48
2:F:43:ILE:HG22	2:F:44:LEU:CD1	2.44	0.48
1:G:15:ILE:HD12	1:G:96:GLN:N	2.29	0.48
1:G:35:MET:HG3	1:G:39:ILE:HG21	1.95	0.48
1:I:432:LYS:C	1:I:432:LYS:HD3	2.39	0.48
1:K:464:ASP:OD1	1:K:501:ILE:CD1	2.49	0.48
2:L:43:ILE:HG22	2:L:44:LEU:CD1	2.44	0.48
1:M:32:VAL:HG12	1:M:35:MET:SD	2.53	0.48
1:M:35:MET:HE2	1:M:40:LEU:HG	1.96	0.48
1:M:39:ILE:HG23	1:M:40:LEU:H	1.78	0.48
1:M:100:SER:O	1:M:101:MET:C	2.55	0.48
1:M:109:GLN:NE2	1:M:176:PHE:HB3	2.29	0.48
1:M:127:ARG:HD3	1:M:160:VAL:HG22	1.96	0.48
1:M:290:MET:H	1:M:290:MET:HG2	1.50	0.48
1:M:402:VAL:O	1:M:406:HIS:N	2.46	0.48
1:O:15:ILE:HD12	1:O:96:GLN:N	2.29	0.48
1:O:354:GLU:C	1:O:356:SER:H	2.22	0.48
1:O:536:GLU:O	1:O:539:VAL:HG13	2.14	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:P:17:HIS:HD2	2:P:109:VAL:HG11	1.77	0.48
1:Q:323:ARG:HG3	1:Q:349:LEU:HD11	1.96	0.48
1:Q:397:ASP:O	1:Q:401:VAL:HG23	2.13	0.48
1:Q:486:LEU:HA	1:Q:488:ARG:NH1	2.29	0.48
1:Q:493:ASP:O	1:Q:496:PHE:HB3	2.12	0.48
1:S:63:TRP:HZ2	1:S:131:TYR:CE1	2.32	0.48
1:S:192:VAL:HG23	1:S:221:ILE:HD12	1.92	0.48
1:U:1187:UNK:O	1:U:1188:UNK:C	2.59	0.48
2:V:43:ILE:HG22	2:V:44:LEU:CD1	2.44	0.48
1:W:32:VAL:HG12	1:W:35:MET:SD	2.53	0.48
1:W:35:MET:HG3	1:W:39:ILE:HG21	1.95	0.48
1:W:270:GLN:HA	1:W:273:ASP:HB3	1.96	0.48
1:W:287:HIS:ND1	1:W:288:HIS:N	2.59	0.48
1:Y:35:MET:CE	1:Y:40:LEU:HG	2.43	0.48
1:Y:52:LYS:CD	1:Y:52:LYS:C	2.86	0.48
1:Y:177:LYS:HE2	1:Y:237:TYR:HE1	1.78	0.48
1:Y:323:ARG:HG3	1:Y:349:LEU:HD11	1.96	0.48
1:Y:397:ASP:O	1:Y:401:VAL:HG23	2.13	0.48
1:Y:493:ASP:O	1:Y:496:PHE:HB3	2.12	0.48
1:a:127:ARG:HD3	1:a:160:VAL:HG22	1.96	0.48
1:c:15:ILE:HD12	1:c:96:GLN:N	2.29	0.48
1:c:32:VAL:HG12	1:c:35:MET:SD	2.53	0.48
1:c:35:MET:HE2	1:c:40:LEU:HG	1.96	0.48
1:c:40:LEU:CD2	1:c:40:LEU:N	2.73	0.48
1:c:322:ARG:HD2	1:c:322:ARG:HA	1.64	0.48
1:c:432:LYS:C	1:c:432:LYS:HD3	2.39	0.48
1:c:882:UNK:N	1:c:883:UNK:N	2.61	0.48
1:c:911:UNK:O	1:c:912:UNK:C	2.59	0.48
1:e:109:GLN:NE2	1:e:176:PHE:HB3	2.29	0.48
1:e:237:TYR:CD1	1:e:237:TYR:N	2.80	0.48
1:e:270:GLN:HA	1:e:273:ASP:HB3	1.96	0.48
1:e:488:ARG:HH11	1:e:488:ARG:HG3	1.75	0.48
2:f:87:TYR:O	2:f:91:ILE:HG13	2.12	0.48
1:A:234:SER:HB3	1:A:236:PRO:CD	2.25	0.48
1:A:270:GLN:HA	1:A:273:ASP:HB3	1.96	0.48
1:A:371:ARG:HG3	1:A:389:ILE:CD1	2.30	0.48
1:A:372:LEU:HD13	1:A:422:ILE:HG21	1.95	0.48
1:A:432:LYS:C	1:A:432:LYS:HD3	2.39	0.48
1:C:233:LYS:H	1:C:233:LYS:HD3	1.78	0.48
1:C:251:LYS:CD	1:C:251:LYS:C	2.86	0.48
1:C:354:GLU:C	1:C:356:SER:H	2.22	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:410:LEU:CD2	1:C:427:LEU:HB2	2.40	0.48
1:E:48:ILE:CD1	1:E:61:LEU:HD12	2.44	0.48
1:E:258:LEU:HD22	1:E:258:LEU:N	2.29	0.48
1:E:354:GLU:C	1:E:356:SER:H	2.22	0.48
1:E:488:ARG:NH1	1:E:488:ARG:HG3	2.29	0.48
1:G:35:MET:CE	1:G:40:LEU:HG	2.43	0.48
1:G:188:SER:N	1:G:191:THR:CG2	2.73	0.48
1:G:354:GLU:C	1:G:356:SER:H	2.22	0.48
1:G:357:LEU:CD2	1:G:430:LYS:HE2	2.42	0.48
1:G:432:LYS:C	1:G:432:LYS:HD3	2.39	0.48
1:G:911:UNK:O	1:G:912:UNK:C	2.59	0.48
1:I:35:MET:CE	1:I:40:LEU:HG	2.43	0.48
1:I:109:GLN:NE2	1:I:176:PHE:HB3	2.29	0.48
1:I:234:SER:HB3	1:I:236:PRO:CD	2.25	0.48
1:K:63:TRP:HZ2	1:K:131:TYR:CE1	2.32	0.48
1:K:76:PHE:C	1:K:76:PHE:CD1	2.88	0.48
1:K:109:GLN:NE2	1:K:176:PHE:HB3	2.29	0.48
1:K:242:LEU:O	1:K:242:LEU:HD23	2.14	0.48
1:K:270:GLN:HA	1:K:273:ASP:HB3	1.96	0.48
1:K:323:ARG:HG3	1:K:349:LEU:HD11	1.96	0.48
1:K:455:SER:OG	1:K:459:ILE:O	2.12	0.48
1:K:492:LEU:CD1	1:K:561:LEU:HG	2.44	0.48
1:M:15:ILE:HD12	1:M:96:GLN:N	2.29	0.48
1:M:232:LEU:O	1:M:234:SER:N	2.47	0.48
1:M:253:TRP:C	1:M:255:ALA:N	2.67	0.48
1:M:376:PRO:HG2	1:M:470:HIS:NE2	2.28	0.48
1:M:397:ASP:O	1:M:401:VAL:HG23	2.13	0.48
1:M:432:LYS:C	1:M:432:LYS:HD3	2.39	0.48
1:M:882:UNK:N	1:M:883:UNK:N	2.61	0.48
1:O:127:ARG:HD3	1:O:160:VAL:HG22	1.96	0.48
1:Q:131:TYR:HE2	1:Q:135:ARG:HH12	1.60	0.48
1:Q:166:LEU:C	1:Q:166:LEU:CD2	2.85	0.48
1:Q:354:GLU:C	1:Q:356:SER:H	2.22	0.48
1:Q:376:PRO:HG2	1:Q:470:HIS:NE2	2.28	0.48
1:Q:422:ILE:C	1:Q:427:LEU:HD12	2.38	0.48
1:Q:488:ARG:HH11	1:Q:488:ARG:HG3	1.75	0.48
2:R:43:ILE:HG22	2:R:44:LEU:CD1	2.44	0.48
1:S:35:MET:HG3	1:S:39:ILE:HG21	1.95	0.48
1:S:270:GLN:HA	1:S:273:ASP:HB3	1.96	0.48
1:W:354:GLU:C	1:W:356:SER:H	2.22	0.48
1:W:705:UNK:HA	1:W:717:UNK:O	2.14	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Y:166:LEU:CD2	1:Y:167:SER:N	2.73	0.48
1:Y:486:LEU:HA	1:Y:488:ARG:NH1	2.29	0.48
2:Z:43:ILE:HG22	2:Z:44:LEU:CD1	2.44	0.48
1:a:12:TYR:CE1	1:a:96:GLN:HB2	2.48	0.48
1:a:15:ILE:HD12	1:a:96:GLN:N	2.29	0.48
1:a:432:LYS:C	1:a:432:LYS:HD3	2.39	0.48
1:a:562:LEU:CD1	1:a:580:GLN:HG3	2.43	0.48
1:c:100:SER:O	1:c:101:MET:C	2.55	0.48
1:c:109:GLN:NE2	1:c:176:PHE:HB3	2.29	0.48
1:c:127:ARG:HD3	1:c:160:VAL:HG22	1.96	0.48
1:c:232:LEU:O	1:c:234:SER:N	2.47	0.48
1:c:357:LEU:HB3	1:c:366:ARG:CD	2.43	0.48
1:e:63:TRP:HZ2	1:e:131:TYR:CE1	2.32	0.48
1:e:232:LEU:O	1:e:234:SER:N	2.47	0.48
1:e:323:ARG:HG3	1:e:349:LEU:HD11	1.96	0.48
1:e:492:LEU:CD1	1:e:561:LEU:HG	2.44	0.48
2:f:43:ILE:HG22	2:f:44:LEU:CD1	2.44	0.48
1:A:48:ILE:CD1	1:A:61:LEU:HD12	2.44	0.48
1:A:109:GLN:NE2	1:A:176:PHE:HB3	2.29	0.48
1:A:127:ARG:HD3	1:A:160:VAL:HG22	1.96	0.48
1:C:35:MET:HG3	1:C:39:ILE:HG21	1.95	0.48
1:C:48:ILE:CD1	1:C:61:LEU:HD12	2.44	0.48
1:C:432:LYS:C	1:C:432:LYS:HD3	2.39	0.48
1:C:705:UNK:HA	1:C:717:UNK:O	2.14	0.48
2:D:81:GLN:CA	2:D:81:GLN:NE2	2.73	0.48
1:E:63:TRP:HZ2	1:E:131:TYR:CE1	2.32	0.48
1:E:221:ILE:CG2	1:E:222:HIS:N	2.76	0.48
1:E:242:LEU:O	1:E:242:LEU:HD23	2.14	0.48
1:G:48:ILE:CD1	1:G:61:LEU:HD12	2.44	0.48
1:G:270:GLN:HA	1:G:273:ASP:HB3	1.96	0.48
1:G:705:UNK:HA	1:G:717:UNK:O	2.14	0.48
1:I:184:LYS:HB2	1:I:184:LYS:HZ2	1.79	0.48
1:I:270:GLN:HA	1:I:273:ASP:HB3	1.96	0.48
1:I:372:LEU:HD13	1:I:422:ILE:HG21	1.95	0.48
1:I:486:LEU:HA	1:I:488:ARG:NH1	2.29	0.48
1:K:237:TYR:CD1	1:K:237:TYR:N	2.80	0.48
1:K:432:LYS:C	1:K:432:LYS:HD3	2.39	0.48
1:M:12:TYR:CE1	1:M:96:GLN:HB2	2.48	0.48
1:M:354:GLU:C	1:M:356:SER:H	2.22	0.48
1:O:130:PRO:HG3	1:O:290:MET:HE2	1.96	0.48
1:O:270:GLN:HA	1:O:273:ASP:HB3	1.96	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:O:562:LEU:CD1	1:O:580:GLN:HG3	2.43	0.48
1:Q:48:ILE:C	1:Q:50:MET:N	2.66	0.48
1:Q:287:HIS:ND1	1:Q:288:HIS:N	2.59	0.48
1:S:35:MET:CE	1:S:40:LEU:HG	2.43	0.48
1:S:47:HIS:O	1:S:50:MET:HB3	2.12	0.48
1:S:48:ILE:CD1	1:S:61:LEU:HD12	2.44	0.48
1:S:425:ILE:HD12	1:S:425:ILE:C	2.38	0.48
1:U:48:ILE:CD1	1:U:61:LEU:HD12	2.44	0.48
1:U:221:ILE:CG2	1:U:222:HIS:N	2.76	0.48
1:U:242:LEU:O	1:U:242:LEU:HD23	2.14	0.48
1:U:258:LEU:HD22	1:U:258:LEU:N	2.29	0.48
1:U:488:ARG:NH1	1:U:488:ARG:HG3	2.29	0.48
1:W:18:VAL:CG2	1:W:103:THR:HG23	2.43	0.48
1:W:48:ILE:CD1	1:W:61:LEU:HD12	2.44	0.48
1:W:142:ARG:O	1:W:261:LYS:HG2	2.13	0.48
1:W:323:ARG:HG3	1:W:349:LEU:HD11	1.96	0.48
1:W:410:LEU:CD2	1:W:427:LEU:HB2	2.40	0.48
1:W:432:LYS:C	1:W:432:LYS:HD3	2.39	0.48
1:W:486:LEU:HA	1:W:488:ARG:NH1	2.29	0.48
1:Y:287:HIS:ND1	1:Y:288:HIS:N	2.59	0.48
1:Y:422:ILE:C	1:Y:427:LEU:HD12	2.38	0.48
1:Y:488:ARG:HH11	1:Y:488:ARG:HG3	1.75	0.48
1:a:52:LYS:CD	1:a:52:LYS:C	2.86	0.48
1:a:288:HIS:HD2	1:a:288:HIS:H	1.57	0.48
1:a:425:ILE:HD12	1:a:425:ILE:C	2.38	0.48
2:b:44:LEU:H	2:b:44:LEU:CD1	2.15	0.48
1:c:12:TYR:CE1	1:c:96:GLN:HB2	2.48	0.48
2:d:17:HIS:HD2	2:d:109:VAL:HG11	1.77	0.48
1:e:242:LEU:O	1:e:242:LEU:HD23	2.14	0.48
1:e:432:LYS:C	1:e:432:LYS:HD3	2.39	0.48
1:A:251:LYS:HD2	1:A:252:ALA:HA	1.94	0.48
1:A:323:ARG:HG3	1:A:349:LEU:HD11	1.96	0.48
1:A:354:GLU:C	1:A:356:SER:H	2.22	0.48
1:A:486:LEU:HA	1:A:488:ARG:NH1	2.29	0.48
1:A:536:GLU:O	1:A:539:VAL:HG13	2.14	0.48
1:A:705:UNK:HA	1:A:717:UNK:O	2.14	0.48
1:C:258:LEU:HD22	1:C:258:LEU:N	2.29	0.48
1:C:323:ARG:HG3	1:C:349:LEU:HD11	1.96	0.48
1:C:486:LEU:HA	1:C:488:ARG:NH1	2.29	0.48
1:E:19:PHE:CZ	1:E:92:ILE:HD13	2.28	0.48
1:E:184:LYS:HB2	1:E:184:LYS:HZ2	1.79	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:882:UNK:N	1:E:883:UNK:N	2.61	0.48
1:G:47:HIS:O	1:G:50:MET:HB3	2.12	0.48
1:G:109:GLN:NE2	1:G:176:PHE:HB3	2.29	0.48
1:G:129:GLN:CB	1:G:130:PRO:CD	2.84	0.48
1:G:242:LEU:O	1:G:242:LEU:HD23	2.14	0.48
1:I:48:ILE:CD1	1:I:61:LEU:HD12	2.44	0.48
1:I:127:ARG:HD3	1:I:160:VAL:HG22	1.96	0.48
1:I:192:VAL:HG23	1:I:193:LEU:H	1.78	0.48
1:I:323:ARG:HG3	1:I:349:LEU:HD11	1.96	0.48
1:I:536:GLU:O	1:I:539:VAL:HG13	2.14	0.48
1:I:705:UNK:HA	1:I:717:UNK:O	2.14	0.48
1:K:15:ILE:HD12	1:K:96:GLN:N	2.29	0.48
1:K:32:VAL:HG12	1:K:35:MET:SD	2.53	0.48
1:K:127:ARG:HD3	1:K:160:VAL:HG22	1.96	0.48
1:K:287:HIS:CG	1:K:288:HIS:H	2.31	0.48
1:K:869:UNK:O	1:K:870:UNK:CB	2.61	0.48
1:M:10:TYR:HE1	1:M:107:ILE:CG2	2.27	0.48
1:M:177:LYS:HE2	1:M:237:TYR:HE1	1.78	0.48
1:M:192:VAL:HG23	1:M:193:LEU:H	1.78	0.48
1:M:242:LEU:O	1:M:242:LEU:HD23	2.14	0.48
1:M:323:ARG:HG3	1:M:349:LEU:HD11	1.96	0.48
1:M:357:LEU:HB3	1:M:366:ARG:CD	2.43	0.48
1:M:422:ILE:C	1:M:427:LEU:HD12	2.38	0.48
1:M:486:LEU:HA	1:M:488:ARG:NH1	2.29	0.48
1:M:488:ARG:NH1	1:M:488:ARG:HG3	2.29	0.48
2:N:17:HIS:HD2	2:N:109:VAL:HG11	1.77	0.48
1:O:232:LEU:O	1:O:234:SER:N	2.47	0.48
1:O:258:LEU:HD13	1:O:258:LEU:N	2.26	0.48
1:O:288:HIS:HD2	1:O:288:HIS:H	1.57	0.48
1:O:360:LEU:CD1	1:O:365:TYR:CB	2.69	0.48
1:O:402:VAL:O	1:O:406:HIS:N	2.46	0.48
1:O:425:ILE:HD12	1:O:425:ILE:C	2.38	0.48
1:O:432:LYS:C	1:O:432:LYS:HD3	2.39	0.48
1:Q:166:LEU:CD2	1:Q:167:SER:N	2.73	0.48
2:R:43:ILE:HG22	2:R:44:LEU:CG	2.43	0.48
1:S:32:VAL:HG12	1:S:35:MET:SD	2.53	0.48
1:S:242:LEU:O	1:S:242:LEU:HD23	2.14	0.48
1:S:357:LEU:CD2	1:S:430:LYS:HE2	2.42	0.48
1:S:419:THR:OG1	1:S:420:ILE:N	2.46	0.48
1:S:432:LYS:C	1:S:432:LYS:HD3	2.39	0.48
1:S:705:UNK:HA	1:S:717:UNK:O	2.14	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:S:911:UNK:O	1:S:912:UNK:C	2.59	0.48
2:T:57:GLY:O	2:T:59:PRO:HD2	2.06	0.48
1:U:63:TRP:HZ2	1:U:131:TYR:CE1	2.32	0.48
2:V:44:LEU:H	2:V:44:LEU:CD1	2.15	0.48
1:Y:354:GLU:C	1:Y:356:SER:H	2.22	0.48
1:Y:376:PRO:HG2	1:Y:470:HIS:NE2	2.28	0.48
1:a:130:PRO:HG3	1:a:290:MET:HE2	1.96	0.48
1:a:232:LEU:O	1:a:234:SER:N	2.47	0.48
1:a:270:GLN:HA	1:a:273:ASP:HB3	1.96	0.48
1:a:354:GLU:C	1:a:356:SER:H	2.22	0.48
1:c:10:TYR:HE1	1:c:107:ILE:CG2	2.27	0.48
1:c:63:TRP:HZ2	1:c:131:TYR:CE1	2.32	0.48
1:c:242:LEU:O	1:c:242:LEU:HD23	2.14	0.48
1:c:253:TRP:C	1:c:255:ALA:N	2.67	0.48
1:c:270:GLN:HA	1:c:273:ASP:HB3	1.96	0.48
1:c:323:ARG:HG3	1:c:349:LEU:HD11	1.96	0.48
1:c:376:PRO:HG2	1:c:470:HIS:NE2	2.28	0.48
1:c:397:ASP:O	1:c:401:VAL:HG23	2.13	0.48
1:c:422:ILE:C	1:c:427:LEU:HD12	2.38	0.48
1:c:488:ARG:NH1	1:c:488:ARG:HG3	2.29	0.48
1:e:76:PHE:CD1	1:e:76:PHE:C	2.88	0.48
1:e:486:LEU:HA	1:e:488:ARG:NH1	2.29	0.48
1:A:142:ARG:O	1:A:261:LYS:HG2	2.13	0.48
1:C:130:PRO:HG3	1:C:290:MET:HE2	1.96	0.48
1:C:142:ARG:O	1:C:261:LYS:HG2	2.13	0.48
1:C:357:LEU:HB3	1:C:366:ARG:CD	2.43	0.48
1:C:882:UNK:N	1:C:883:UNK:N	2.61	0.48
1:E:410:LEU:HA	1:E:426:TYR:HE1	1.65	0.48
1:G:32:VAL:HG12	1:G:35:MET:SD	2.53	0.48
1:G:127:ARG:HD3	1:G:160:VAL:HG22	1.96	0.48
1:G:142:ARG:O	1:G:261:LYS:HG2	2.13	0.48
1:G:410:LEU:CD2	1:G:427:LEU:HB2	2.40	0.48
1:G:419:THR:OG1	1:G:420:ILE:N	2.46	0.48
1:G:425:ILE:HD12	1:G:425:ILE:C	2.38	0.48
1:I:142:ARG:O	1:I:261:LYS:HG2	2.13	0.48
1:I:242:LEU:O	1:I:242:LEU:HD23	2.14	0.48
1:I:354:GLU:C	1:I:356:SER:H	2.22	0.48
1:I:388:LEU:N	1:I:388:LEU:CD2	2.73	0.48
1:I:882:UNK:N	1:I:883:UNK:N	2.61	0.48
1:K:188:SER:N	1:K:191:THR:CG2	2.73	0.48
1:K:258:LEU:HD22	1:K:258:LEU:N	2.29	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:354:GLU:C	1:K:356:SER:H	2.22	0.48
1:K:486:LEU:HA	1:K:488:ARG:NH1	2.29	0.48
1:M:63:TRP:HZ2	1:M:131:TYR:CE1	2.32	0.48
1:M:270:GLN:HA	1:M:273:ASP:HB3	1.96	0.48
1:O:10:TYR:HE1	1:O:107:ILE:CG2	2.27	0.48
1:O:52:LYS:CD	1:O:52:LYS:C	2.86	0.48
2:P:22:LEU:HD11	2:P:77:LEU:CD1	2.34	0.48
1:Q:183:LEU:CD2	1:Q:186:CYS:HG	1.92	0.48
1:Q:290:MET:H	1:Q:290:MET:HG2	1.50	0.48
1:S:109:GLN:NE2	1:S:176:PHE:HB3	2.29	0.48
1:S:127:ARG:HD3	1:S:160:VAL:HG22	1.96	0.48
1:S:142:ARG:O	1:S:261:LYS:HG2	2.13	0.48
2:T:43:ILE:HG22	2:T:44:LEU:CD1	2.44	0.48
1:U:243:VAL:CG1	1:U:263:LEU:HD23	2.41	0.48
1:U:279:THR:CG2	1:W:118:GLN:HE21	2.15	0.48
1:W:87:PHE:CE2	2:X:83:GLY:HA3	2.33	0.48
1:W:258:LEU:HD22	1:W:258:LEU:N	2.29	0.48
2:X:81:GLN:CA	2:X:81:GLN:NE2	2.73	0.48
1:Y:127:ARG:HD3	1:Y:160:VAL:HG22	1.96	0.48
1:Y:130:PRO:HG3	1:Y:290:MET:HE2	1.96	0.48
1:Y:270:GLN:HA	1:Y:273:ASP:HB3	1.96	0.48
1:Y:536:GLU:O	1:Y:539:VAL:HG13	2.14	0.48
1:a:10:TYR:HE1	1:a:107:ILE:CG2	2.27	0.48
1:a:109:GLN:NE2	1:a:176:PHE:HB3	2.29	0.48
1:a:275:LEU:HB3	1:a:280:THR:HG21	1.94	0.48
1:a:290:MET:H	1:a:290:MET:HG2	1.49	0.48
1:c:354:GLU:C	1:c:356:SER:H	2.22	0.48
1:c:486:LEU:HA	1:c:488:ARG:NH1	2.29	0.48
1:c:562:LEU:CD1	1:c:580:GLN:HG3	2.43	0.48
2:d:43:ILE:HG22	2:d:44:LEU:CD1	2.44	0.48
1:e:15:ILE:HD12	1:e:96:GLN:N	2.29	0.48
1:e:32:VAL:HG12	1:e:35:MET:SD	2.53	0.48
1:e:127:ARG:HD3	1:e:160:VAL:HG22	1.96	0.48
1:e:234:SER:HB3	1:e:236:PRO:CD	2.25	0.48
1:e:287:HIS:CG	1:e:288:HIS:H	2.31	0.48
1:e:354:GLU:C	1:e:356:SER:H	2.22	0.48
1:e:705:UNK:HA	1:e:717:UNK:O	2.14	0.48
1:e:869:UNK:O	1:e:870:UNK:CB	2.61	0.48
1:A:242:LEU:O	1:A:242:LEU:HD23	2.14	0.47
1:A:882:UNK:N	1:A:883:UNK:N	2.61	0.47
1:C:51:SER:O	1:C:51:SER:OG	2.26	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:109:GLN:NE2	1:C:176:PHE:HB3	2.29	0.47
1:E:35:MET:HE2	1:E:40:LEU:HG	1.96	0.47
1:E:142:ARG:O	1:E:261:LYS:HG2	2.13	0.47
1:E:705:UNK:HA	1:E:717:UNK:O	2.14	0.47
1:E:990:UNK:C	1:E:992:UNK:N	2.76	0.47
1:G:118:GLN:HE21	1:I:279:THR:CG2	2.15	0.47
1:G:258:LEU:HD22	1:G:258:LEU:N	2.29	0.47
1:G:372:LEU:HD13	1:G:422:ILE:HG21	1.95	0.47
2:H:57:GLY:O	2:H:59:PRO:HD2	2.06	0.47
1:I:235:LYS:CE	1:I:235:LYS:CA	2.85	0.47
1:I:488:ARG:CG	1:I:488:ARG:NH1	2.65	0.47
1:K:35:MET:HE2	1:K:40:LEU:HG	1.96	0.47
1:K:178:ILE:HG23	1:K:241:LEU:HD22	1.89	0.47
1:K:234:SER:HB3	1:K:236:PRO:CD	2.25	0.47
1:K:705:UNK:HA	1:K:717:UNK:O	2.14	0.47
1:M:258:LEU:HD22	1:M:258:LEU:N	2.29	0.47
1:M:536:GLU:O	1:M:539:VAL:HG13	2.14	0.47
1:M:562:LEU:CD1	1:M:580:GLN:HG3	2.43	0.47
1:O:86:LYS:HD2	1:O:89:MET:HE2	1.95	0.47
1:O:109:GLN:NE2	1:O:176:PHE:HB3	2.29	0.47
1:O:275:LEU:HB3	1:O:280:THR:HG21	1.94	0.47
1:O:323:ARG:HG3	1:O:349:LEU:HD11	1.96	0.47
1:Q:127:ARG:HD3	1:Q:160:VAL:HG22	1.96	0.47
1:Q:130:PRO:HG3	1:Q:290:MET:HE2	1.96	0.47
1:Q:270:GLN:HA	1:Q:273:ASP:HB3	1.96	0.47
1:Q:360:LEU:O	1:Q:361:GLU:C	2.57	0.47
1:S:247:VAL:O	1:S:266:THR:HG21	2.06	0.47
1:S:258:LEU:HD22	1:S:258:LEU:N	2.29	0.47
1:U:35:MET:HE2	1:U:40:LEU:HG	1.96	0.47
1:U:410:LEU:HA	1:U:426:TYR:HE1	1.65	0.47
1:U:882:UNK:N	1:U:883:UNK:N	2.61	0.47
1:U:990:UNK:C	1:U:992:UNK:N	2.76	0.47
1:W:130:PRO:HG3	1:W:290:MET:HE2	1.96	0.47
1:W:242:LEU:O	1:W:242:LEU:HD23	2.14	0.47
1:W:357:LEU:HB3	1:W:366:ARG:CD	2.43	0.47
1:W:362:PRO:HA	1:W:366:ARG:HB3	1.96	0.47
1:W:882:UNK:N	1:W:883:UNK:N	2.61	0.47
1:Y:48:ILE:C	1:Y:50:MET:N	2.66	0.47
1:Y:63:TRP:HZ2	1:Y:131:TYR:CE1	2.32	0.47
1:Y:183:LEU:CD2	1:Y:186:CYS:HG	1.92	0.47
1:Y:353:ILE:HG21	1:Y:426:TYR:HB3	1.80	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Y:360:LEU:O	1:Y:361:GLU:C	2.57	0.47
2:Z:43:ILE:HG22	2:Z:44:LEU:CG	2.43	0.47
1:a:258:LEU:HD13	1:a:258:LEU:N	2.26	0.47
1:a:258:LEU:HD22	1:a:258:LEU:N	2.29	0.47
1:a:402:VAL:O	1:a:406:HIS:N	2.46	0.47
1:c:177:LYS:HE2	1:c:237:TYR:HE1	1.78	0.47
1:c:192:VAL:HG23	1:c:193:LEU:H	1.78	0.47
1:c:258:LEU:HD22	1:c:258:LEU:N	2.29	0.47
1:c:536:GLU:O	1:c:539:VAL:HG13	2.14	0.47
1:e:35:MET:HE2	1:e:40:LEU:HG	1.96	0.47
1:e:48:ILE:CD1	1:e:61:LEU:HD12	2.44	0.47
1:e:251:LYS:CD	1:e:251:LYS:C	2.86	0.47
1:e:258:LEU:HD22	1:e:258:LEU:N	2.29	0.47
1:C:242:LEU:O	1:C:242:LEU:HD23	2.14	0.47
1:C:362:PRO:HA	1:C:366:ARG:HB3	1.96	0.47
1:E:120:PHE:O	1:E:121:ALA:C	2.54	0.47
1:E:323:ARG:HG3	1:E:349:LEU:HD11	1.96	0.47
1:E:486:LEU:HA	1:E:488:ARG:NH1	2.29	0.47
1:G:52:LYS:HD2	1:G:52:LYS:C	2.39	0.47
1:I:287:HIS:CG	1:I:288:HIS:H	2.31	0.47
1:I:409:SER:OG	1:I:410:LEU:N	2.38	0.47
1:I:419:THR:OG1	1:I:420:ILE:N	2.46	0.47
1:K:10:TYR:HE1	1:K:107:ILE:CG2	2.27	0.47
1:K:12:TYR:CE1	1:K:96:GLN:HB2	2.48	0.47
1:K:48:ILE:CD1	1:K:61:LEU:HD12	2.44	0.47
1:K:235:LYS:CE	1:K:235:LYS:CA	2.85	0.47
1:M:177:LYS:CE	1:M:237:TYR:CE1	2.98	0.47
2:N:43:ILE:HG22	2:N:44:LEU:CD1	2.44	0.47
1:O:52:LYS:HD2	1:O:52:LYS:C	2.39	0.47
1:O:242:LEU:HD21	1:O:244:LEU:HD13	1.85	0.47
1:Q:357:LEU:HB3	1:Q:366:ARG:CD	2.43	0.47
1:Q:374:VAL:HG23	1:Q:375:PHE:N	2.28	0.47
1:Q:536:GLU:O	1:Q:539:VAL:HG13	2.14	0.47
1:Q:882:UNK:N	1:Q:883:UNK:N	2.61	0.47
2:R:58:LYS:C	2:R:60:PHE:N	2.69	0.47
1:S:52:LYS:HD2	1:S:52:LYS:C	2.39	0.47
1:S:92:ILE:C	1:S:94:THR:N	2.70	0.47
1:S:288:HIS:HD2	1:S:288:HIS:H	1.57	0.47
1:U:120:PHE:O	1:U:121:ALA:C	2.54	0.47
1:U:142:ARG:O	1:U:261:LYS:HG2	2.13	0.47
1:U:233:LYS:H	1:U:233:LYS:HD3	1.78	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:U:323:ARG:HG3	1:U:349:LEU:HD11	1.96	0.47
1:U:705:UNK:HA	1:U:717:UNK:O	2.14	0.47
1:W:41:SER:O	1:W:45:ILE:N	2.38	0.47
1:Y:10:TYR:HE1	1:Y:107:ILE:CG2	2.27	0.47
1:Y:47:HIS:O	1:Y:50:MET:HB3	2.12	0.47
1:Y:192:VAL:HG23	1:Y:193:LEU:H	1.78	0.47
1:Y:357:LEU:HB3	1:Y:366:ARG:CD	2.43	0.47
2:Z:58:LYS:C	2:Z:60:PHE:N	2.69	0.47
1:a:52:LYS:HD2	1:a:52:LYS:C	2.39	0.47
1:a:63:TRP:HZ2	1:a:131:TYR:CE1	2.32	0.47
1:a:86:LYS:HD2	1:a:89:MET:HE2	1.95	0.47
1:a:323:ARG:HG3	1:a:349:LEU:HD11	1.96	0.47
1:c:177:LYS:CE	1:c:237:TYR:CE1	2.98	0.47
1:c:237:TYR:CD1	1:c:237:TYR:N	2.80	0.47
1:e:10:TYR:HE1	1:e:107:ILE:CG2	2.27	0.47
1:e:12:TYR:CE1	1:e:96:GLN:HB2	2.48	0.47
1:e:338:TRP:HA	1:e:338:TRP:HE3	1.78	0.47
1:e:488:ARG:NH1	1:e:488:ARG:HG3	2.29	0.47
1:A:287:HIS:CG	1:A:288:HIS:H	2.31	0.47
1:C:63:TRP:HZ2	1:C:131:TYR:CE1	2.32	0.47
1:C:87:PHE:CE2	2:D:83:GLY:HA3	2.33	0.47
1:E:52:LYS:HD2	1:E:52:LYS:C	2.39	0.47
1:E:127:ARG:HD3	1:E:160:VAL:HG22	1.96	0.47
1:E:243:VAL:CG1	1:E:263:LEU:HD23	2.41	0.47
1:G:92:ILE:C	1:G:94:THR:N	2.70	0.47
2:H:43:ILE:HG22	2:H:44:LEU:CD1	2.44	0.47
1:K:177:LYS:CE	1:K:237:TYR:CE1	2.98	0.47
1:K:251:LYS:CD	1:K:251:LYS:C	2.86	0.47
1:K:338:TRP:HA	1:K:338:TRP:HE3	1.78	0.47
1:K:488:ARG:NH1	1:K:488:ARG:HG3	2.29	0.47
1:M:130:PRO:HG3	1:M:290:MET:HE2	1.96	0.47
1:M:142:ARG:O	1:M:261:LYS:HG2	2.13	0.47
1:M:410:LEU:CD2	1:M:427:LEU:HB2	2.40	0.47
1:O:63:TRP:HZ2	1:O:131:TYR:CE1	2.32	0.47
1:O:258:LEU:HD22	1:O:258:LEU:N	2.29	0.47
1:O:372:LEU:HD13	1:O:422:ILE:HG21	1.95	0.47
1:O:397:ASP:O	1:O:401:VAL:HG23	2.13	0.47
1:O:492:LEU:CD1	1:O:561:LEU:HG	2.44	0.47
1:Q:10:TYR:HE1	1:Q:107:ILE:CG2	2.27	0.47
1:Q:32:VAL:HG12	1:Q:35:MET:SD	2.53	0.47
1:Q:48:ILE:CD1	1:Q:61:LEU:HD12	2.44	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Q:63:TRP:HZ2	1:Q:131:TYR:CE1	2.32	0.47
1:Q:216:ASN:HB2	1:Q:219:LEU:CB	2.39	0.47
1:Q:362:PRO:HA	1:Q:366:ARG:HB3	1.96	0.47
1:S:362:PRO:HA	1:S:366:ARG:HB3	1.96	0.47
1:S:372:LEU:HD13	1:S:422:ILE:HG21	1.95	0.47
1:S:486:LEU:HA	1:S:488:ARG:NH1	2.29	0.47
1:U:52:LYS:HD2	1:U:52:LYS:C	2.39	0.47
1:U:92:ILE:C	1:U:94:THR:N	2.70	0.47
1:U:127:ARG:HD3	1:U:160:VAL:HG22	1.96	0.47
1:U:486:LEU:HA	1:U:488:ARG:NH1	2.29	0.47
1:W:109:GLN:NE2	1:W:176:PHE:HB3	2.29	0.47
1:Y:32:VAL:HG12	1:Y:35:MET:SD	2.53	0.47
1:Y:48:ILE:CD1	1:Y:61:LEU:HD12	2.44	0.47
1:Y:362:PRO:HA	1:Y:366:ARG:HB3	1.96	0.47
1:Y:374:VAL:HG23	1:Y:375:PHE:N	2.28	0.47
1:Y:432:LYS:C	1:Y:432:LYS:HD3	2.39	0.47
1:Y:882:UNK:N	1:Y:883:UNK:N	2.61	0.47
1:a:360:LEU:CD1	1:a:365:TYR:CB	2.69	0.47
1:a:372:LEU:HD13	1:a:422:ILE:HG21	1.95	0.47
1:a:705:UNK:HA	1:a:717:UNK:O	2.14	0.47
1:a:990:UNK:C	1:a:992:UNK:N	2.76	0.47
1:c:86:LYS:HD2	1:c:89:MET:HE2	1.95	0.47
1:c:372:LEU:HD13	1:c:422:ILE:HG21	1.95	0.47
1:e:50:MET:SD	1:e:50:MET:C	2.98	0.47
1:e:178:ILE:HG23	1:e:241:LEU:HD22	1.89	0.47
1:e:188:SER:N	1:e:191:THR:CG2	2.73	0.47
1:A:183:LEU:HD23	1:A:183:LEU:HA	1.72	0.47
1:A:235:LYS:CE	1:A:235:LYS:CA	2.85	0.47
1:A:419:THR:OG1	1:A:420:ILE:N	2.46	0.47
1:A:488:ARG:CG	1:A:488:ARG:NH1	2.65	0.47
1:A:579:LYS:O	1:A:582:GLN:HB3	2.15	0.47
1:C:10:TYR:HE1	1:C:107:ILE:CG2	2.27	0.47
1:E:92:ILE:C	1:E:94:THR:N	2.70	0.47
1:E:130:PRO:HG3	1:E:290:MET:HE2	1.96	0.47
1:E:432:LYS:C	1:E:432:LYS:HD3	2.39	0.47
1:G:35:MET:HE2	1:G:40:LEU:HG	1.96	0.47
1:G:153:LEU:HD11	1:G:267:ARG:HD2	1.97	0.47
1:G:288:HIS:HD2	1:G:288:HIS:H	1.57	0.47
1:G:323:ARG:HG3	1:G:349:LEU:HD11	1.96	0.47
1:G:362:PRO:HA	1:G:366:ARG:HB3	1.96	0.47
1:G:486:LEU:HA	1:G:488:ARG:NH1	2.29	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:579:LYS:O	1:I:582:GLN:HB3	2.15	0.47
1:K:50:MET:SD	1:K:50:MET:C	2.98	0.47
1:M:50:MET:SD	1:M:50:MET:C	2.98	0.47
1:M:86:LYS:HD2	1:M:89:MET:HE2	1.95	0.47
1:M:237:TYR:CD1	1:M:237:TYR:N	2.80	0.47
1:M:372:LEU:HD13	1:M:422:ILE:HG21	1.95	0.47
1:O:50:MET:SD	1:O:50:MET:C	2.98	0.47
1:O:110:ARG:HG3	1:O:110:ARG:HH11	1.80	0.47
1:O:153:LEU:HD11	1:O:267:ARG:HD2	1.97	0.47
1:O:223:SER:O	1:O:224:ILE:C	2.58	0.47
1:O:705:UNK:HA	1:O:717:UNK:O	2.14	0.47
1:O:882:UNK:N	1:O:883:UNK:N	2.61	0.47
2:P:43:ILE:HG22	2:P:44:LEU:CG	2.43	0.47
1:Q:372:LEU:HD13	1:Q:422:ILE:HG21	1.95	0.47
1:Q:705:UNK:HA	1:Q:717:UNK:O	2.14	0.47
2:R:85:THR:C	2:R:87:TYR:N	2.72	0.47
1:S:35:MET:HE2	1:S:40:LEU:HG	1.96	0.47
1:S:153:LEU:HD11	1:S:267:ARG:HD2	1.97	0.47
1:S:323:ARG:HG3	1:S:349:LEU:HD11	1.96	0.47
1:S:410:LEU:CD2	1:S:427:LEU:HB2	2.40	0.47
1:U:130:PRO:HG3	1:U:290:MET:HE2	1.96	0.47
1:U:362:PRO:HA	1:U:366:ARG:HB3	1.96	0.47
1:W:10:TYR:HE1	1:W:107:ILE:CG2	2.27	0.47
1:Y:88:LEU:CA	1:Y:91:PRO:HD2	2.39	0.47
1:Y:216:ASN:HB2	1:Y:219:LEU:CB	2.39	0.47
1:a:50:MET:SD	1:a:50:MET:C	2.98	0.47
1:a:110:ARG:HH11	1:a:110:ARG:HG3	1.80	0.47
1:a:153:LEU:HD11	1:a:267:ARG:HD2	1.97	0.47
1:a:231:LEU:O	1:a:234:SER:CB	2.59	0.47
1:a:397:ASP:O	1:a:401:VAL:HG23	2.13	0.47
1:a:410:LEU:HA	1:a:426:TYR:HE1	1.65	0.47
1:a:492:LEU:CD1	1:a:561:LEU:HG	2.44	0.47
1:c:35:MET:HG3	1:c:39:ILE:HG21	1.95	0.47
1:c:50:MET:SD	1:c:50:MET:C	2.98	0.47
1:c:120:PHE:O	1:c:121:ALA:C	2.54	0.47
1:c:130:PRO:HG3	1:c:290:MET:HE2	1.96	0.47
1:c:142:ARG:O	1:c:261:LYS:HG2	2.13	0.47
1:c:290:MET:H	1:c:290:MET:HG2	1.50	0.47
1:e:177:LYS:CE	1:e:237:TYR:CE1	2.98	0.47
1:A:48:ILE:C	1:A:50:MET:N	2.66	0.47
1:A:50:MET:SD	1:A:50:MET:C	2.98	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:184:LYS:HB2	1:A:184:LYS:HZ2	1.80	0.47
1:A:223:SER:O	1:A:224:ILE:C	2.58	0.47
1:A:242:LEU:HD21	1:A:244:LEU:HD13	1.85	0.47
1:A:258:LEU:HD22	1:A:258:LEU:N	2.29	0.47
1:A:310:GLN:O	1:A:313:PRO:N	2.48	0.47
1:A:360:LEU:O	1:A:361:GLU:C	2.57	0.47
1:C:52:LYS:HD2	1:C:52:LYS:C	2.39	0.47
1:C:76:PHE:C	1:C:76:PHE:CD1	2.88	0.47
1:C:127:ARG:HD3	1:C:160:VAL:HG22	1.96	0.47
1:C:221:ILE:CG2	1:C:222:HIS:N	2.76	0.47
1:C:360:LEU:O	1:C:361:GLU:C	2.57	0.47
1:E:153:LEU:HD11	1:E:267:ARG:HD2	1.97	0.47
1:E:233:LYS:H	1:E:233:LYS:HD3	1.78	0.47
1:E:362:PRO:HA	1:E:366:ARG:HB3	1.96	0.47
1:E:579:LYS:O	1:E:582:GLN:HB3	2.15	0.47
1:G:247:VAL:O	1:G:266:THR:HG21	2.06	0.47
1:I:258:LEU:HD22	1:I:258:LEU:N	2.29	0.47
1:I:310:GLN:O	1:I:313:PRO:N	2.48	0.47
1:I:360:LEU:O	1:I:361:GLU:C	2.57	0.47
1:K:46:ASP:O	1:K:50:MET:CA	2.63	0.47
1:K:110:ARG:HG3	1:K:110:ARG:HH11	1.80	0.47
1:M:35:MET:HG3	1:M:39:ILE:HG21	1.95	0.47
1:M:76:PHE:CD1	1:M:76:PHE:C	2.88	0.47
1:O:177:LYS:CE	1:O:237:TYR:CE1	2.98	0.47
1:O:990:UNK:C	1:O:992:UNK:N	2.76	0.47
1:Q:47:HIS:O	1:Q:50:MET:HB3	2.12	0.47
1:Q:50:MET:SD	1:Q:50:MET:C	2.98	0.47
1:Q:84:ASN:OD1	1:Q:85:TYR:CE2	2.66	0.47
1:Q:192:VAL:HG23	1:Q:193:LEU:H	1.78	0.47
1:Q:258:LEU:HD13	1:Q:258:LEU:N	2.26	0.47
1:Q:353:ILE:HG21	1:Q:426:TYR:HB3	1.80	0.47
1:S:882:UNK:N	1:S:883:UNK:N	2.61	0.47
1:U:153:LEU:HD11	1:U:267:ARG:HD2	1.97	0.47
1:U:579:LYS:O	1:U:582:GLN:HB3	2.15	0.47
1:W:52:LYS:HD2	1:W:52:LYS:C	2.39	0.47
1:W:63:TRP:HZ2	1:W:131:TYR:CE1	2.32	0.47
1:W:76:PHE:C	1:W:76:PHE:CD1	2.88	0.47
1:W:149:ILE:HD11	1:W:263:LEU:HD13	1.97	0.47
1:Y:372:LEU:HD13	1:Y:422:ILE:HG21	1.95	0.47
1:Y:419:THR:OG1	1:Y:420:ILE:N	2.46	0.47
1:Y:705:UNK:HA	1:Y:717:UNK:O	2.14	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:Z:85:THR:C	2:Z:87:TYR:N	2.72	0.47
1:a:120:PHE:O	1:a:121:ALA:C	2.54	0.47
1:a:177:LYS:CE	1:a:237:TYR:CE1	2.98	0.47
1:a:223:SER:O	1:a:224:ILE:C	2.58	0.47
1:a:242:LEU:O	1:a:242:LEU:HD23	2.14	0.47
2:b:22:LEU:HD11	2:b:77:LEU:CD1	2.34	0.47
1:c:46:ASP:CA	1:c:49:ILE:HG22	2.41	0.47
1:c:76:PHE:C	1:c:76:PHE:CD1	2.88	0.47
1:A:52:LYS:HD2	1:A:52:LYS:C	2.39	0.47
1:A:99:PRO:CB	1:A:104:ARG:HB3	2.45	0.47
1:A:186:CYS:C	1:A:191:THR:CG2	2.64	0.47
1:A:279:THR:CG2	1:S:118:GLN:HE21	2.15	0.47
1:A:302:LEU:O	1:A:303:LYS:C	2.58	0.47
1:A:488:ARG:HG3	1:A:488:ARG:NH1	2.29	0.47
1:C:41:SER:O	1:C:45:ILE:N	2.38	0.47
1:C:50:MET:SD	1:C:50:MET:C	2.98	0.47
1:C:149:ILE:HD11	1:C:263:LEU:HD13	1.97	0.47
1:C:310:GLN:O	1:C:313:PRO:N	2.48	0.47
1:E:46:ASP:O	1:E:50:MET:CA	2.63	0.47
1:E:99:PRO:CB	1:E:104:ARG:HB3	2.45	0.47
1:E:369:PHE:CE2	1:E:410:LEU:CD2	2.98	0.47
1:E:455:SER:OG	1:E:459:ILE:O	2.12	0.47
1:G:221:ILE:CG2	1:G:222:HIS:N	2.76	0.47
1:I:10:TYR:HE1	1:I:107:ILE:CG2	2.27	0.47
1:I:50:MET:SD	1:I:50:MET:C	2.98	0.47
1:I:99:PRO:CB	1:I:104:ARG:HB3	2.45	0.47
1:I:149:ILE:HD11	1:I:263:LEU:HD13	1.97	0.47
1:I:186:CYS:C	1:I:191:THR:CG2	2.64	0.47
1:I:223:SER:O	1:I:224:ILE:C	2.58	0.47
1:I:302:LEU:O	1:I:303:LYS:C	2.58	0.47
1:I:869:UNK:O	1:I:870:UNK:CB	2.61	0.47
1:K:142:ARG:O	1:K:261:LYS:HG2	2.13	0.47
1:K:290:MET:H	1:K:290:MET:HG2	1.49	0.47
1:K:410:LEU:CD1	1:K:411:VAL:H	2.06	0.47
1:M:46:ASP:O	1:M:50:MET:CA	2.63	0.47
1:M:52:LYS:HD2	1:M:52:LYS:C	2.39	0.47
1:M:120:PHE:O	1:M:121:ALA:C	2.54	0.47
1:O:12:TYR:CE1	1:O:96:GLN:HB2	2.48	0.47
1:O:48:ILE:CD1	1:O:61:LEU:HD12	2.44	0.47
1:O:231:LEU:O	1:O:234:SER:CB	2.59	0.47
1:O:410:LEU:HA	1:O:426:TYR:HE1	1.65	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:O:579:LYS:O	1:O:582:GLN:HB3	2.15	0.47
1:Q:39:ILE:HG23	1:Q:40:LEU:H	1.78	0.47
1:Q:52:LYS:HD2	1:Q:52:LYS:C	2.39	0.47
1:Q:153:LEU:HD11	1:Q:267:ARG:HD2	1.97	0.47
1:Q:232:LEU:O	1:Q:234:SER:N	2.47	0.47
1:Q:302:LEU:O	1:Q:303:LYS:C	2.58	0.47
1:Q:432:LYS:C	1:Q:432:LYS:HD3	2.39	0.47
1:S:184:LYS:HZ2	1:S:184:LYS:HB2	1.80	0.47
1:S:221:ILE:CG2	1:S:222:HIS:N	2.76	0.47
1:S:404:LYS:HE2	1:S:404:LYS:CA	2.41	0.47
1:U:46:ASP:O	1:U:50:MET:CA	2.63	0.47
1:U:99:PRO:CB	1:U:104:ARG:HB3	2.45	0.47
1:U:338:TRP:HA	1:U:338:TRP:HE3	1.78	0.47
1:U:369:PHE:CE2	1:U:410:LEU:CD2	2.98	0.47
1:U:432:LYS:C	1:U:432:LYS:HD3	2.39	0.47
1:W:127:ARG:HD3	1:W:160:VAL:HG22	1.96	0.47
1:W:310:GLN:O	1:W:313:PRO:N	2.48	0.47
1:W:360:LEU:O	1:W:361:GLU:C	2.57	0.47
1:Y:50:MET:SD	1:Y:50:MET:C	2.98	0.47
1:Y:52:LYS:HD2	1:Y:52:LYS:C	2.39	0.47
1:Y:153:LEU:HD11	1:Y:267:ARG:HD2	1.97	0.47
1:Y:302:LEU:O	1:Y:303:LYS:C	2.58	0.47
1:a:48:ILE:CD1	1:a:61:LEU:HD12	2.44	0.47
1:a:579:LYS:O	1:a:582:GLN:HB3	2.15	0.47
1:a:882:UNK:N	1:a:883:UNK:N	2.61	0.47
1:c:46:ASP:O	1:c:50:MET:CA	2.63	0.47
1:c:48:ILE:CD1	1:c:61:LEU:HD12	2.44	0.47
1:c:410:LEU:CD2	1:c:427:LEU:HB2	2.40	0.47
1:e:46:ASP:O	1:e:50:MET:CA	2.63	0.47
1:e:110:ARG:HG3	1:e:110:ARG:HH11	1.80	0.47
1:e:186:CYS:C	1:e:191:THR:CG2	2.64	0.47
1:e:425:ILE:HD12	1:e:425:ILE:C	2.38	0.47
1:A:10:TYR:HE1	1:A:107:ILE:CG2	2.27	0.47
1:A:46:ASP:O	1:A:50:MET:CA	2.63	0.47
1:A:149:ILE:HD11	1:A:263:LEU:HD13	1.97	0.47
1:A:153:LEU:HD11	1:A:267:ARG:HD2	1.97	0.47
1:A:362:PRO:HA	1:A:366:ARG:HB3	1.96	0.47
1:A:492:LEU:CD1	1:A:561:LEU:HG	2.44	0.47
1:A:535:TYR:O	1:A:538:LEU:HB3	2.15	0.47
1:A:869:UNK:O	1:A:870:UNK:CB	2.61	0.47
1:C:99:PRO:CB	1:C:104:ARG:HB3	2.45	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:310:GLN:O	1:E:313:PRO:N	2.48	0.47
1:E:338:TRP:HA	1:E:338:TRP:HE3	1.78	0.47
1:E:414:GLN:OE1	1:E:421:SER:N	2.48	0.47
1:E:535:TYR:O	1:E:538:LEU:HB3	2.15	0.47
1:G:46:ASP:O	1:G:50:MET:CA	2.63	0.47
1:G:50:MET:SD	1:G:50:MET:C	2.98	0.47
1:G:99:PRO:CB	1:G:104:ARG:HB3	2.45	0.47
1:G:188:SER:C	1:G:190:GLU:N	2.73	0.47
1:G:223:SER:O	1:G:224:ILE:C	2.58	0.47
1:G:302:LEU:O	1:G:303:LYS:C	2.58	0.47
1:G:336:ALA:CB	1:G:340:ASN:OD1	2.56	0.47
1:G:882:UNK:N	1:G:883:UNK:N	2.61	0.47
1:G:990:UNK:C	1:G:992:UNK:N	2.76	0.47
1:I:12:TYR:CE1	1:I:96:GLN:HB2	2.48	0.47
1:I:46:ASP:O	1:I:50:MET:CA	2.63	0.47
1:I:52:LYS:HD2	1:I:52:LYS:C	2.39	0.47
1:I:153:LEU:HD11	1:I:267:ARG:HD2	1.97	0.47
1:I:362:PRO:HA	1:I:366:ARG:HB3	1.96	0.47
1:I:488:ARG:HG3	1:I:488:ARG:NH1	2.29	0.47
1:I:492:LEU:CD1	1:I:561:LEU:HG	2.44	0.47
1:I:535:TYR:O	1:I:538:LEU:HB3	2.15	0.47
1:K:39:ILE:HG23	1:K:40:LEU:H	1.78	0.47
1:K:48:ILE:C	1:K:50:MET:N	2.66	0.47
1:K:99:PRO:CB	1:K:104:ARG:HB3	2.45	0.47
1:K:100:SER:O	1:K:101:MET:C	2.55	0.47
1:K:291:THR:O	1:K:292:LEU:C	2.58	0.47
1:K:310:GLN:O	1:K:313:PRO:N	2.48	0.47
1:K:372:LEU:HD13	1:K:422:ILE:HG21	1.95	0.47
1:K:414:GLN:OE1	1:K:421:SER:N	2.48	0.47
1:K:425:ILE:HD12	1:K:425:ILE:C	2.38	0.47
1:K:535:TYR:O	1:K:538:LEU:HB3	2.15	0.47
2:L:10:MET:HB2	2:L:11:PRO:HD2	1.97	0.47
2:L:40:GLN:NE2	2:L:40:GLN:C	2.73	0.47
1:M:48:ILE:CD1	1:M:61:LEU:HD12	2.44	0.47
1:M:149:ILE:HD11	1:M:263:LEU:HD13	1.97	0.47
1:M:153:LEU:HD11	1:M:267:ARG:HD2	1.97	0.47
1:M:410:LEU:CD1	1:M:411:VAL:H	2.06	0.47
1:M:579:LYS:O	1:M:582:GLN:HB3	2.15	0.47
1:M:705:UNK:HA	1:M:717:UNK:O	2.14	0.47
2:N:43:ILE:HG22	2:N:44:LEU:CG	2.43	0.47
1:O:19:PHE:CZ	1:O:92:ILE:HD13	2.28	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:O:120:PHE:O	1:O:121:ALA:C	2.54	0.47
1:O:242:LEU:O	1:O:242:LEU:HD23	2.14	0.47
1:O:535:TYR:O	1:O:538:LEU:HB3	2.15	0.47
2:P:10:MET:HB2	2:P:11:PRO:HD2	1.97	0.47
2:P:82:ARG:NH1	2:P:82:ARG:CG	2.73	0.47
1:Q:88:LEU:CA	1:Q:91:PRO:HD2	2.39	0.47
1:Q:258:LEU:HD22	1:Q:258:LEU:N	2.29	0.47
1:Q:310:GLN:O	1:Q:313:PRO:N	2.48	0.47
1:Q:419:THR:OG1	1:Q:420:ILE:N	2.46	0.47
1:Q:492:LEU:CD1	1:Q:561:LEU:HG	2.44	0.47
1:Q:579:LYS:O	1:Q:582:GLN:HB3	2.15	0.47
1:S:50:MET:SD	1:S:50:MET:C	2.98	0.47
1:S:99:PRO:CB	1:S:104:ARG:HB3	2.45	0.47
1:S:223:SER:O	1:S:224:ILE:C	2.58	0.47
1:S:302:LEU:O	1:S:303:LYS:C	2.58	0.47
1:S:327:ILE:HG21	1:S:341:TRP:HZ3	1.77	0.47
1:U:310:GLN:O	1:U:313:PRO:N	2.48	0.47
1:U:414:GLN:OE1	1:U:421:SER:N	2.48	0.47
1:U:460:PRO:HG3	1:U:462:TYR:CZ	2.50	0.47
1:U:535:TYR:O	1:U:538:LEU:HB3	2.15	0.47
1:W:50:MET:SD	1:W:50:MET:C	2.98	0.47
1:W:99:PRO:CB	1:W:104:ARG:HB3	2.45	0.47
1:W:221:ILE:CG2	1:W:222:HIS:N	2.76	0.47
1:W:302:LEU:O	1:W:303:LYS:C	2.58	0.47
1:W:372:LEU:HD13	1:W:422:ILE:HG21	1.95	0.47
1:Y:39:ILE:HG23	1:Y:40:LEU:H	1.78	0.47
1:Y:84:ASN:OD1	1:Y:85:TYR:CE2	2.66	0.47
1:Y:223:SER:O	1:Y:224:ILE:C	2.58	0.47
1:Y:232:LEU:O	1:Y:234:SER:N	2.47	0.47
1:Y:242:LEU:O	1:Y:242:LEU:HD23	2.14	0.47
1:Y:258:LEU:HD13	1:Y:258:LEU:N	2.26	0.47
1:Y:290:MET:H	1:Y:290:MET:HG2	1.50	0.47
1:Y:310:GLN:O	1:Y:313:PRO:N	2.48	0.47
1:Y:492:LEU:CD1	1:Y:561:LEU:HG	2.44	0.47
1:Y:535:TYR:O	1:Y:538:LEU:HB3	2.15	0.47
1:Y:579:LYS:O	1:Y:582:GLN:HB3	2.15	0.47
1:a:19:PHE:CZ	1:a:92:ILE:HD13	2.28	0.47
1:a:242:LEU:HD21	1:a:244:LEU:HD13	1.85	0.47
1:a:464:ASP:OD1	1:a:501:ILE:CD1	2.49	0.47
1:a:535:TYR:O	1:a:538:LEU:HB3	2.15	0.47
2:b:43:ILE:HG22	2:b:44:LEU:CG	2.43	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:c:52:LYS:HD2	1:c:52:LYS:C	2.39	0.47
1:c:153:LEU:HD11	1:c:267:ARG:HD2	1.97	0.47
1:c:579:LYS:O	1:c:582:GLN:HB3	2.15	0.47
2:d:40:GLN:NE2	2:d:40:GLN:C	2.73	0.47
1:e:99:PRO:CB	1:e:104:ARG:HB3	2.45	0.47
1:e:142:ARG:O	1:e:261:LYS:HG2	2.13	0.47
1:e:184:LYS:HZ2	1:e:184:LYS:HB2	1.80	0.47
1:e:310:GLN:O	1:e:313:PRO:N	2.48	0.47
1:e:404:LYS:HA	1:e:404:LYS:CE	2.40	0.47
1:e:414:GLN:OE1	1:e:421:SER:N	2.48	0.47
2:f:10:MET:HB2	2:f:11:PRO:HD2	1.97	0.47
2:f:40:GLN:NE2	2:f:40:GLN:C	2.73	0.47
1:A:12:TYR:CE1	1:A:96:GLN:HB2	2.48	0.47
1:A:71:GLU:O	1:A:75:LYS:HG3	2.15	0.47
1:A:92:ILE:C	1:A:94:THR:N	2.70	0.47
1:C:46:ASP:O	1:C:50:MET:CA	2.63	0.47
1:C:110:ARG:HG3	1:C:110:ARG:HH11	1.80	0.47
1:C:302:LEU:O	1:C:303:LYS:C	2.58	0.47
1:C:399:MET:HE2	1:C:399:MET:HB2	1.66	0.47
1:C:718:UNK:O	1:C:725:UNK:HA	2.15	0.47
1:E:50:MET:SD	1:E:50:MET:C	2.98	0.47
1:E:411:VAL:N	1:E:423:PRO:CD	2.73	0.47
1:E:460:PRO:HG3	1:E:462:TYR:CZ	2.50	0.47
1:E:718:UNK:O	1:E:725:UNK:HA	2.15	0.47
1:G:110:ARG:HG3	1:G:110:ARG:HH11	1.80	0.47
1:G:327:ILE:HG21	1:G:341:TRP:HZ3	1.77	0.47
1:G:372:LEU:HD11	1:G:422:ILE:CB	2.45	0.47
1:G:404:LYS:HE2	1:G:404:LYS:CA	2.41	0.47
1:G:718:UNK:O	1:G:725:UNK:HA	2.15	0.47
1:I:71:GLU:O	1:I:75:LYS:HG3	2.15	0.47
1:I:216:ASN:HB2	1:I:219:LEU:CB	2.39	0.47
1:M:146:ASN:O	1:M:280:THR:CB	2.47	0.47
2:N:40:GLN:NE2	2:N:40:GLN:C	2.73	0.47
2:N:43:ILE:CG2	2:N:44:LEU:HD12	2.45	0.47
1:O:86:LYS:HD2	1:O:86:LYS:HA	1.53	0.47
1:O:357:LEU:HB3	1:O:366:ARG:CD	2.43	0.47
1:O:464:ASP:OD1	1:O:501:ILE:CD1	2.49	0.47
1:Q:149:ILE:HD11	1:Q:263:LEU:HD13	1.97	0.47
1:Q:223:SER:O	1:Q:224:ILE:C	2.58	0.47
1:Q:369:PHE:CE2	1:Q:410:LEU:CD2	2.98	0.47
1:Q:535:TYR:O	1:Q:538:LEU:HB3	2.15	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:S:46:ASP:O	1:S:50:MET:CA	2.63	0.47
1:S:130:PRO:HG3	1:S:290:MET:HE2	1.96	0.47
1:S:188:SER:C	1:S:190:GLU:N	2.73	0.47
1:S:372:LEU:HD11	1:S:422:ILE:CB	2.45	0.47
1:S:718:UNK:O	1:S:725:UNK:HA	2.15	0.47
1:U:50:MET:SD	1:U:50:MET:C	2.98	0.47
1:U:372:LEU:HD11	1:U:422:ILE:CB	2.45	0.47
1:W:110:ARG:HH11	1:W:110:ARG:HG3	1.80	0.47
1:Y:99:PRO:CB	1:Y:104:ARG:HB3	2.45	0.47
1:Y:369:PHE:CE2	1:Y:410:LEU:CD2	2.98	0.47
1:a:46:ASP:O	1:a:50:MET:CA	2.63	0.47
1:a:149:ILE:HD11	1:a:263:LEU:HD13	1.97	0.47
2:b:10:MET:HB2	2:b:11:PRO:HD2	1.97	0.47
1:c:149:ILE:HD11	1:c:263:LEU:HD13	1.97	0.47
1:c:718:UNK:O	1:c:725:UNK:HA	2.15	0.47
2:d:43:ILE:CG2	2:d:44:LEU:HD12	2.45	0.47
1:e:39:ILE:HG23	1:e:40:LEU:H	1.78	0.47
1:e:100:SER:O	1:e:101:MET:C	2.55	0.47
1:e:130:PRO:HG3	1:e:290:MET:HE2	1.96	0.47
1:e:149:ILE:HD11	1:e:263:LEU:HD13	1.97	0.47
1:e:153:LEU:HD11	1:e:267:ARG:HD2	1.97	0.47
1:e:372:LEU:HD13	1:e:422:ILE:HG21	1.95	0.47
1:e:535:TYR:O	1:e:538:LEU:HB3	2.15	0.47
1:A:35:MET:HE2	1:A:40:LEU:HG	1.96	0.47
1:A:460:PRO:HG3	1:A:462:TYR:CZ	2.50	0.47
2:B:40:GLN:NE2	2:B:40:GLN:C	2.73	0.47
1:C:184:LYS:HZ2	1:C:184:LYS:HB2	1.79	0.47
1:C:372:LEU:HD13	1:C:422:ILE:HG21	1.95	0.47
1:E:149:ILE:HD11	1:E:263:LEU:HD13	1.97	0.47
1:E:158:THR:HG23	1:E:159:TRP:CD1	2.41	0.47
1:E:372:LEU:HD11	1:E:422:ILE:CB	2.45	0.47
1:G:10:TYR:HE1	1:G:107:ILE:CG2	2.27	0.47
1:G:130:PRO:HG3	1:G:290:MET:HE2	1.96	0.47
1:G:460:PRO:HG3	1:G:462:TYR:CZ	2.50	0.47
1:G:535:TYR:O	1:G:538:LEU:HB3	2.15	0.47
1:I:177:LYS:CE	1:I:237:TYR:CE1	2.98	0.47
1:K:71:GLU:O	1:K:75:LYS:HG3	2.15	0.47
1:K:130:PRO:HG3	1:K:290:MET:HE2	1.96	0.47
1:K:404:LYS:HA	1:K:404:LYS:CE	2.40	0.47
1:K:718:UNK:O	1:K:725:UNK:HA	2.15	0.47
1:M:99:PRO:CB	1:M:104:ARG:HB3	2.45	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:406:HIS:ND1	1:M:406:HIS:C	2.73	0.47
1:M:718:UNK:O	1:M:725:UNK:HA	2.15	0.47
1:O:46:ASP:O	1:O:50:MET:CA	2.63	0.47
1:O:149:ILE:HD11	1:O:263:LEU:HD13	1.97	0.47
1:O:310:GLN:O	1:O:313:PRO:N	2.48	0.47
1:Q:99:PRO:CB	1:Q:104:ARG:HB3	2.45	0.47
1:Q:242:LEU:O	1:Q:242:LEU:HD23	2.14	0.47
1:Q:354:GLU:C	1:Q:356:SER:N	2.73	0.47
1:Q:406:HIS:ND1	1:Q:406:HIS:C	2.73	0.47
1:S:110:ARG:HG3	1:S:110:ARG:HH11	1.80	0.47
1:S:460:PRO:HG3	1:S:462:TYR:CZ	2.50	0.47
2:T:31:TYR:HD2	2:T:68:ARG:HE	1.63	0.47
1:U:718:UNK:O	1:U:725:UNK:HA	2.15	0.47
1:W:46:ASP:O	1:W:50:MET:CA	2.63	0.47
1:W:399:MET:HE2	1:W:399:MET:HB2	1.66	0.47
1:W:718:UNK:O	1:W:725:UNK:HA	2.15	0.47
1:Y:149:ILE:HD11	1:Y:263:LEU:HD13	1.97	0.47
1:Y:258:LEU:HD22	1:Y:258:LEU:N	2.29	0.47
1:Y:354:GLU:C	1:Y:356:SER:N	2.73	0.47
1:a:86:LYS:HD2	1:a:86:LYS:HA	1.53	0.47
1:a:310:GLN:O	1:a:313:PRO:N	2.48	0.47
1:a:414:GLN:OE1	1:a:421:SER:N	2.48	0.47
1:c:146:ASN:O	1:c:280:THR:CB	2.47	0.47
1:c:406:HIS:ND1	1:c:406:HIS:C	2.73	0.47
1:c:410:LEU:CD1	1:c:411:VAL:H	2.06	0.47
1:c:464:ASP:OD1	1:c:501:ILE:CD1	2.49	0.47
1:c:705:UNK:HA	1:c:717:UNK:O	2.14	0.47
1:e:360:LEU:O	1:e:361:GLU:C	2.57	0.47
1:A:47:HIS:O	1:A:50:MET:HB3	2.12	0.47
1:A:88:LEU:CD1	1:A:88:LEU:N	2.78	0.47
1:A:135:ARG:O	1:A:135:ARG:HG2	2.15	0.47
1:A:177:LYS:CE	1:A:237:TYR:CE1	2.98	0.47
1:A:235:LYS:HZ1	1:A:238:GLU:HG2	1.80	0.47
1:A:322:ARG:HA	1:A:322:ARG:HD2	1.64	0.47
1:A:718:UNK:O	1:A:725:UNK:HA	2.15	0.47
1:C:153:LEU:HD11	1:C:267:ARG:HD2	1.97	0.47
1:C:369:PHE:CE2	1:C:410:LEU:CD2	2.98	0.47
2:D:85:THR:C	2:D:87:TYR:N	2.72	0.47
1:G:177:LYS:CE	1:G:237:TYR:CE1	2.98	0.47
1:G:310:GLN:O	1:G:313:PRO:N	2.48	0.47
1:G:465:GLN:HE21	1:G:502:ARG:NH1	2.13	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:488:ARG:NH1	1:G:488:ARG:HG3	2.29	0.47
1:G:492:LEU:CD1	1:G:561:LEU:HG	2.44	0.47
2:H:31:TYR:HD2	2:H:68:ARG:HE	1.63	0.47
1:I:35:MET:HE2	1:I:40:LEU:HG	1.96	0.47
1:I:48:ILE:C	1:I:50:MET:N	2.66	0.47
1:I:92:ILE:C	1:I:94:THR:N	2.70	0.47
1:I:106:TYR:HH	1:I:110:ARG:NH2	2.06	0.47
1:I:135:ARG:O	1:I:135:ARG:HG2	2.15	0.47
1:I:460:PRO:HG3	1:I:462:TYR:CZ	2.50	0.47
1:I:718:UNK:O	1:I:725:UNK:HA	2.15	0.47
2:J:40:GLN:NE2	2:J:40:GLN:C	2.73	0.47
1:K:46:ASP:CA	1:K:49:ILE:HG22	2.41	0.47
1:K:149:ILE:HD11	1:K:263:LEU:HD13	1.97	0.47
1:K:153:LEU:HD11	1:K:267:ARG:HD2	1.97	0.47
1:K:360:LEU:O	1:K:361:GLU:C	2.57	0.47
1:K:519:GLN:HG3	1:K:523:PHE:CZ	2.50	0.47
1:K:536:GLU:O	1:K:539:VAL:HG13	2.14	0.47
2:L:43:ILE:CG2	2:L:44:LEU:HD12	2.45	0.47
1:M:71:GLU:O	1:M:75:LYS:HG3	2.15	0.47
1:M:92:ILE:C	1:M:94:THR:N	2.70	0.47
1:M:134:LEU:HA	1:M:283:ILE:HD13	1.97	0.47
1:M:835:UNK:CB	1:M:836:UNK:H2	2.28	0.47
1:O:302:LEU:O	1:O:303:LYS:C	2.58	0.47
1:O:362:PRO:HA	1:O:366:ARG:HB3	1.96	0.47
1:O:414:GLN:OE1	1:O:421:SER:N	2.48	0.47
1:Q:114:TYR:C	1:Q:117:ASN:O	2.53	0.47
1:Q:545:PHE:CZ	1:Q:564:ILE:HB	2.42	0.47
1:Q:718:UNK:O	1:Q:725:UNK:HA	2.15	0.47
1:S:149:ILE:HD11	1:S:263:LEU:HD13	1.97	0.47
1:S:336:ALA:CB	1:S:340:ASN:OD1	2.56	0.47
1:S:465:GLN:HE21	1:S:502:ARG:NH1	2.13	0.47
1:S:492:LEU:CD1	1:S:561:LEU:HG	2.44	0.47
1:S:535:TYR:O	1:S:538:LEU:HB3	2.15	0.47
1:U:10:TYR:HE1	1:U:107:ILE:CG2	2.27	0.47
1:U:411:VAL:N	1:U:423:PRO:CD	2.73	0.47
1:W:153:LEU:HD11	1:W:267:ARG:HD2	1.97	0.47
1:W:374:VAL:HG23	1:W:375:PHE:N	2.28	0.47
1:Y:322:ARG:HA	1:Y:322:ARG:HD2	1.64	0.47
1:Y:406:HIS:ND1	1:Y:406:HIS:C	2.73	0.47
1:Y:990:UNK:C	1:Y:992:UNK:N	2.76	0.47
1:a:357:LEU:HB3	1:a:366:ARG:CD	2.43	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:b:82:ARG:NH1	2:b:82:ARG:CG	2.73	0.47
1:c:99:PRO:CB	1:c:104:ARG:HB3	2.45	0.47
1:c:134:LEU:HA	1:c:283:ILE:HD13	1.97	0.47
1:c:414:GLN:OE1	1:c:421:SER:N	2.48	0.47
1:c:835:UNK:CB	1:c:836:UNK:H2	2.28	0.47
2:d:43:ILE:HG22	2:d:44:LEU:CG	2.43	0.47
2:d:57:GLY:O	2:d:59:PRO:HD2	2.06	0.47
1:e:41:SER:O	1:e:45:ILE:N	2.38	0.47
1:e:71:GLU:O	1:e:75:LYS:HG3	2.15	0.47
1:e:243:VAL:CG1	1:e:263:LEU:HD23	2.41	0.47
1:e:519:GLN:HG3	1:e:523:PHE:CZ	2.50	0.47
1:e:718:UNK:O	1:e:725:UNK:HA	2.15	0.47
1:e:1187:UNK:O	1:e:1188:UNK:C	2.59	0.47
2:f:43:ILE:CG2	2:f:44:LEU:HD12	2.45	0.47
1:A:130:PRO:HG3	1:A:290:MET:HE2	1.96	0.46
1:A:216:ASN:HB2	1:A:219:LEU:CB	2.39	0.46
1:A:465:GLN:HE21	1:A:502:ARG:NH1	2.13	0.46
2:B:77:LEU:CA	2:B:80:THR:CG2	2.93	0.46
1:C:186:CYS:C	1:C:191:THR:CG2	2.64	0.46
1:C:465:GLN:HE21	1:C:502:ARG:NH1	2.13	0.46
1:C:519:GLN:HG3	1:C:523:PHE:CZ	2.50	0.46
2:F:31:TYR:HD2	2:F:68:ARG:HE	1.63	0.46
1:G:46:ASP:CA	1:G:49:ILE:HG22	2.41	0.46
1:G:135:ARG:O	1:G:135:ARG:HG2	2.15	0.46
1:G:149:ILE:HD11	1:G:263:LEU:HD13	1.97	0.46
1:G:354:GLU:C	1:G:356:SER:N	2.73	0.46
1:G:869:UNK:O	1:G:870:UNK:CB	2.61	0.46
1:I:88:LEU:CD1	1:I:88:LEU:N	2.78	0.46
1:I:235:LYS:HZ1	1:I:238:GLU:HG2	1.80	0.46
1:I:372:LEU:HD11	1:I:422:ILE:CB	2.45	0.46
1:I:465:GLN:HE21	1:I:502:ARG:NH1	2.13	0.46
1:K:399:MET:HE2	1:K:399:MET:HB2	1.66	0.46
1:K:835:UNK:CB	1:K:836:UNK:H2	2.28	0.46
1:M:414:GLN:OE1	1:M:421:SER:N	2.48	0.46
1:M:443:ILE:HG13	1:M:478:ILE:CG2	2.45	0.46
1:M:464:ASP:OD1	1:M:501:ILE:CD1	2.49	0.46
1:M:519:GLN:HG3	1:M:523:PHE:CZ	2.50	0.46
1:O:835:UNK:CB	1:O:836:UNK:H2	2.28	0.46
1:Q:183:LEU:HD23	1:Q:183:LEU:HA	1.72	0.46
1:Q:184:LYS:HB2	1:Q:184:LYS:HZ2	1.81	0.46
1:Q:990:UNK:C	1:Q:992:UNK:N	2.76	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:S:10:TYR:HE1	1:S:107:ILE:CG2	2.27	0.46
1:S:88:LEU:CD1	1:S:88:LEU:N	2.78	0.46
1:S:135:ARG:O	1:S:135:ARG:HG2	2.15	0.46
1:S:177:LYS:CE	1:S:237:TYR:CE1	2.98	0.46
1:S:233:LYS:H	1:S:233:LYS:HD3	1.78	0.46
1:S:354:GLU:C	1:S:356:SER:N	2.73	0.46
1:S:488:ARG:NH1	1:S:488:ARG:HG3	2.29	0.46
2:T:77:LEU:CA	2:T:80:THR:CG2	2.93	0.46
1:U:149:ILE:HD11	1:U:263:LEU:HD13	1.97	0.46
1:U:158:THR:HG23	1:U:159:TRP:CD1	2.41	0.46
1:U:188:SER:C	1:U:190:GLU:N	2.73	0.46
1:U:455:SER:OG	1:U:459:ILE:O	2.12	0.46
2:V:31:TYR:HD2	2:V:68:ARG:HE	1.63	0.46
1:W:184:LYS:HZ2	1:W:184:LYS:HB2	1.79	0.46
1:W:186:CYS:C	1:W:191:THR:CG2	2.64	0.46
1:W:369:PHE:CE2	1:W:410:LEU:CD2	2.98	0.46
1:W:414:GLN:OE1	1:W:421:SER:N	2.48	0.46
1:W:465:GLN:HE21	1:W:502:ARG:NH1	2.13	0.46
1:W:519:GLN:HG3	1:W:523:PHE:CZ	2.50	0.46
1:W:535:TYR:O	1:W:538:LEU:HB3	2.15	0.46
1:Y:177:LYS:CE	1:Y:237:TYR:CE1	2.98	0.46
1:Y:184:LYS:HB2	1:Y:184:LYS:HZ2	1.81	0.46
1:Y:718:UNK:O	1:Y:725:UNK:HA	2.15	0.46
1:a:302:LEU:O	1:a:303:LYS:C	2.58	0.46
1:a:362:PRO:HA	1:a:366:ARG:HB3	1.96	0.46
1:a:835:UNK:CB	1:a:836:UNK:H2	2.28	0.46
1:c:71:GLU:O	1:c:75:LYS:HG3	2.15	0.46
1:c:86:LYS:HD2	1:c:86:LYS:HA	1.53	0.46
1:c:291:THR:O	1:c:292:LEU:C	2.58	0.46
1:c:460:PRO:HG3	1:c:462:TYR:CZ	2.50	0.46
1:c:519:GLN:HG3	1:c:523:PHE:CZ	2.50	0.46
1:e:223:SER:O	1:e:224:ILE:C	2.58	0.46
1:e:302:LEU:O	1:e:303:LYS:C	2.58	0.46
1:A:372:LEU:HD11	1:A:422:ILE:CB	2.45	0.46
1:C:290:MET:H	1:C:290:MET:HG2	1.49	0.46
1:C:374:VAL:HG23	1:C:375:PHE:N	2.28	0.46
1:C:414:GLN:OE1	1:C:421:SER:N	2.48	0.46
1:E:10:TYR:HE1	1:E:107:ILE:CG2	2.27	0.46
1:E:15:ILE:HG21	1:E:95:GLU:HB3	1.78	0.46
1:E:52:LYS:CD	1:E:53:ASP:CG	2.85	0.46
1:G:88:LEU:CD1	1:G:88:LEU:N	2.78	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:127:ARG:NH2	1:G:285:LEU:HD21	2.31	0.46
2:H:77:LEU:CA	2:H:80:THR:CG2	2.93	0.46
1:I:46:ASP:CA	1:I:49:ILE:HG22	2.41	0.46
1:I:47:HIS:O	1:I:50:MET:HB3	2.12	0.46
1:I:51:SER:O	1:I:51:SER:OG	2.26	0.46
1:I:130:PRO:HG3	1:I:290:MET:HE2	1.96	0.46
1:I:186:CYS:CA	1:I:191:THR:HG21	2.40	0.46
1:I:279:THR:HG23	1:I:280:THR:HG22	1.97	0.46
1:I:301:LEU:O	1:I:302:LEU:C	2.53	0.46
2:J:77:LEU:CA	2:J:80:THR:CG2	2.93	0.46
1:K:223:SER:O	1:K:224:ILE:C	2.58	0.46
1:K:302:LEU:O	1:K:303:LYS:C	2.58	0.46
1:K:369:PHE:CE2	1:K:410:LEU:CD2	2.98	0.46
1:K:420:ILE:HG21	1:K:422:ILE:HD11	1.98	0.46
1:K:492:LEU:HD11	1:K:565:ALA:HB2	1.97	0.46
1:K:579:LYS:O	1:K:582:GLN:HB3	2.15	0.46
1:K:1187:UNK:O	1:K:1188:UNK:C	2.59	0.46
1:M:118:GLN:HE21	1:O:279:THR:CG2	2.15	0.46
1:M:212:ASP:CB	1:M:220:ARG:HH11	2.18	0.46
1:M:279:THR:HG23	1:M:280:THR:HG22	1.97	0.46
1:M:291:THR:O	1:M:292:LEU:C	2.58	0.46
1:M:460:PRO:HG3	1:M:462:TYR:CZ	2.50	0.46
1:O:71:GLU:O	1:O:75:LYS:HG3	2.15	0.46
1:O:178:ILE:HG23	1:O:241:LEU:HD22	1.89	0.46
1:O:243:VAL:CG1	1:O:263:LEU:HD23	2.41	0.46
1:Q:177:LYS:CE	1:Q:237:TYR:CE1	2.98	0.46
1:Q:458:LEU:HB2	1:Q:493:ASP:OD2	2.15	0.46
1:Q:460:PRO:HG3	1:Q:462:TYR:CZ	2.50	0.46
1:S:127:ARG:NH2	1:S:285:LEU:HD21	2.31	0.46
1:S:158:THR:HG23	1:S:159:TRP:CD1	2.41	0.46
1:S:310:GLN:O	1:S:313:PRO:N	2.48	0.46
1:S:369:PHE:CE2	1:S:410:LEU:CD2	2.98	0.46
1:S:414:GLN:OE1	1:S:421:SER:N	2.48	0.46
1:U:52:LYS:CD	1:U:53:ASP:CG	2.85	0.46
1:U:465:GLN:HE21	1:U:502:ARG:NH1	2.13	0.46
2:V:77:LEU:CA	2:V:80:THR:CG2	2.93	0.46
1:W:579:LYS:O	1:W:582:GLN:HB3	2.15	0.46
2:X:85:THR:C	2:X:87:TYR:N	2.72	0.46
1:Y:114:TYR:C	1:Y:117:ASN:O	2.53	0.46
1:Y:134:LEU:HA	1:Y:283:ILE:HD13	1.97	0.46
1:a:99:PRO:CB	1:a:104:ARG:HB3	2.45	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:a:243:VAL:CG1	1:a:263:LEU:HD23	2.41	0.46
1:a:458:LEU:HB2	1:a:493:ASP:OD2	2.15	0.46
1:c:443:ILE:HG13	1:c:478:ILE:CG2	2.45	0.46
1:c:492:LEU:HD11	1:c:565:ALA:HB2	1.97	0.46
1:e:369:PHE:CE2	1:e:410:LEU:CD2	2.98	0.46
1:e:420:ILE:HG21	1:e:422:ILE:HD11	1.98	0.46
1:e:536:GLU:O	1:e:539:VAL:HG13	2.14	0.46
1:e:579:LYS:O	1:e:582:GLN:HB3	2.15	0.46
1:e:835:UNK:CB	1:e:836:UNK:H2	2.28	0.46
1:A:127:ARG:NH2	1:A:285:LEU:HD21	2.31	0.46
1:A:279:THR:HG23	1:A:280:THR:HG22	1.97	0.46
1:C:535:TYR:O	1:C:538:LEU:HB3	2.15	0.46
1:C:579:LYS:O	1:C:582:GLN:HB3	2.15	0.46
1:E:188:SER:C	1:E:190:GLU:N	2.73	0.46
1:E:465:GLN:HE21	1:E:502:ARG:NH1	2.13	0.46
2:F:77:LEU:CA	2:F:80:THR:CG2	2.93	0.46
1:G:71:GLU:O	1:G:75:LYS:HG3	2.15	0.46
1:G:158:THR:HG23	1:G:159:TRP:CD1	2.41	0.46
1:G:369:PHE:CE2	1:G:410:LEU:CD2	2.98	0.46
1:G:414:GLN:OE1	1:G:421:SER:N	2.48	0.46
1:G:488:ARG:HH11	1:G:488:ARG:HG3	1.75	0.46
2:H:77:LEU:HA	2:H:77:LEU:HD12	1.80	0.46
2:J:31:TYR:HD2	2:J:68:ARG:HE	1.63	0.46
1:K:52:LYS:HD2	1:K:52:LYS:C	2.39	0.46
1:K:125:VAL:HG21	1:K:300:LEU:HA	1.97	0.46
1:K:243:VAL:CG1	1:K:263:LEU:HD23	2.41	0.46
1:K:362:PRO:HA	1:K:366:ARG:HB3	1.96	0.46
1:K:443:ILE:HG13	1:K:478:ILE:CG2	2.46	0.46
1:K:458:LEU:HB2	1:K:493:ASP:OD2	2.15	0.46
1:M:360:LEU:O	1:M:361:GLU:C	2.57	0.46
1:M:369:PHE:CE2	1:M:410:LEU:CD2	2.98	0.46
1:M:492:LEU:HD11	1:M:565:ALA:HB2	1.97	0.46
1:O:99:PRO:CB	1:O:104:ARG:HB3	2.45	0.46
1:O:127:ARG:NH2	1:O:285:LEU:HD21	2.31	0.46
1:O:287:HIS:ND1	1:O:288:HIS:N	2.59	0.46
1:O:458:LEU:HB2	1:O:493:ASP:OD2	2.15	0.46
1:O:465:GLN:HE21	1:O:502:ARG:NH1	2.13	0.46
2:P:40:GLN:NE2	2:P:40:GLN:C	2.73	0.46
1:Q:134:LEU:HA	1:Q:283:ILE:HD13	1.97	0.46
1:Q:188:SER:C	1:Q:190:GLU:N	2.73	0.46
1:Q:835:UNK:CB	1:Q:836:UNK:H2	2.28	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:S:71:GLU:O	1:S:75:LYS:HG3	2.15	0.46
1:S:518:LEU:CD2	1:S:646:UNK:HA	2.42	0.46
2:T:43:ILE:CG2	2:T:44:LEU:HD12	2.45	0.46
2:V:17:HIS:HD2	2:V:109:VAL:HG11	1.77	0.46
1:W:835:UNK:CB	1:W:836:UNK:H2	2.28	0.46
1:Y:188:SER:C	1:Y:190:GLU:N	2.73	0.46
1:Y:458:LEU:HB2	1:Y:493:ASP:OD2	2.15	0.46
1:Y:835:UNK:CB	1:Y:836:UNK:H2	2.28	0.46
2:Z:40:GLN:NE2	2:Z:40:GLN:C	2.73	0.46
1:a:71:GLU:O	1:a:75:LYS:HG3	2.15	0.46
1:a:178:ILE:HG23	1:a:241:LEU:HD22	1.89	0.46
1:a:465:GLN:HE21	1:a:502:ARG:NH1	2.13	0.46
2:b:40:GLN:NE2	2:b:40:GLN:C	2.73	0.46
1:c:269:LYS:HA	1:c:272:THR:HG22	1.98	0.46
1:c:279:THR:HG23	1:c:280:THR:HG22	1.97	0.46
1:c:369:PHE:CE2	1:c:410:LEU:CD2	2.98	0.46
1:c:465:GLN:HE21	1:c:502:ARG:NH1	2.13	0.46
1:c:1187:UNK:O	1:c:1188:UNK:C	2.59	0.46
1:e:46:ASP:CA	1:e:49:ILE:HG22	2.41	0.46
1:e:135:ARG:O	1:e:135:ARG:HG2	2.15	0.46
1:e:290:MET:H	1:e:290:MET:HG2	1.49	0.46
1:e:362:PRO:HA	1:e:366:ARG:HB3	1.96	0.46
1:e:443:ILE:HG13	1:e:478:ILE:CG2	2.46	0.46
1:e:492:LEU:HD11	1:e:565:ALA:HB2	1.97	0.46
1:A:51:SER:O	1:A:51:SER:OG	2.26	0.46
1:A:100:SER:O	1:A:101:MET:C	2.55	0.46
1:A:110:ARG:HH11	1:A:110:ARG:HG3	1.80	0.46
1:A:414:GLN:OE1	1:A:421:SER:N	2.48	0.46
2:B:31:TYR:HD2	2:B:68:ARG:HE	1.63	0.46
1:C:835:UNK:CB	1:C:836:UNK:H2	2.28	0.46
1:E:177:LYS:CE	1:E:237:TYR:CE1	2.98	0.46
2:F:40:GLN:NE2	2:F:40:GLN:C	2.73	0.46
1:G:233:LYS:H	1:G:233:LYS:HD3	1.78	0.46
1:G:579:LYS:O	1:G:582:GLN:HB3	2.15	0.46
2:H:43:ILE:CG2	2:H:44:LEU:HD12	2.45	0.46
1:I:100:SER:O	1:I:101:MET:C	2.55	0.46
1:I:127:ARG:NH2	1:I:285:LEU:HD21	2.31	0.46
1:I:369:PHE:CE2	1:I:410:LEU:CD2	2.98	0.46
1:I:414:GLN:OE1	1:I:421:SER:N	2.48	0.46
1:K:41:SER:O	1:K:45:ILE:N	2.38	0.46
1:K:88:LEU:CD1	1:K:88:LEU:N	2.78	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:376:PRO:CG	1:K:470:HIS:CD2	2.99	0.46
2:L:31:TYR:HD2	2:L:68:ARG:HE	1.63	0.46
1:M:125:VAL:HG21	1:M:300:LEU:HA	1.97	0.46
1:M:178:ILE:HG23	1:M:241:LEU:HD22	1.90	0.46
1:M:269:LYS:HA	1:M:272:THR:HG22	1.98	0.46
1:M:465:GLN:HE21	1:M:502:ARG:NH1	2.13	0.46
2:N:57:GLY:O	2:N:59:PRO:HD2	2.06	0.46
1:O:369:PHE:CE2	1:O:410:LEU:CD2	2.98	0.46
1:Q:269:LYS:HA	1:Q:272:THR:HG22	1.98	0.46
1:Q:399:MET:HE2	1:Q:399:MET:HB2	1.66	0.46
2:R:40:GLN:NE2	2:R:40:GLN:C	2.73	0.46
1:S:46:ASP:CA	1:S:49:ILE:HG22	2.41	0.46
1:U:458:LEU:HB2	1:U:493:ASP:OD2	2.15	0.46
1:W:48:ILE:CG2	1:W:61:LEU:HB2	2.46	0.46
1:Y:127:ARG:NH2	1:Y:285:LEU:HD21	2.31	0.46
1:Y:207:TRP:HE1	1:Y:227:GLU:CB	2.28	0.46
1:Y:269:LYS:HA	1:Y:272:THR:HG22	1.98	0.46
1:Y:414:GLN:OE1	1:Y:421:SER:N	2.48	0.46
1:Y:422:ILE:C	1:Y:427:LEU:CD1	2.89	0.46
1:Y:545:PHE:CZ	1:Y:564:ILE:HB	2.42	0.46
2:Z:57:GLY:O	2:Z:59:PRO:HD2	2.06	0.46
1:a:127:ARG:NH2	1:a:285:LEU:HD21	2.31	0.46
1:a:287:HIS:ND1	1:a:288:HIS:N	2.59	0.46
1:a:369:PHE:CE2	1:a:410:LEU:CD2	2.98	0.46
1:a:422:ILE:C	1:a:427:LEU:CD1	2.89	0.46
2:b:43:ILE:CG2	2:b:44:LEU:HD12	2.45	0.46
1:c:110:ARG:HH11	1:c:110:ARG:HG3	1.80	0.46
1:c:125:VAL:HG21	1:c:300:LEU:HA	1.97	0.46
1:c:360:LEU:O	1:c:361:GLU:C	2.57	0.46
1:e:52:LYS:HD2	1:e:52:LYS:C	2.39	0.46
1:e:88:LEU:CD1	1:e:88:LEU:N	2.78	0.46
1:e:125:VAL:HG21	1:e:300:LEU:HA	1.97	0.46
1:e:322:ARG:HA	1:e:322:ARG:HD2	1.64	0.46
1:e:376:PRO:CG	1:e:470:HIS:CD2	2.99	0.46
1:e:399:MET:HE2	1:e:399:MET:HB2	1.66	0.46
1:e:458:LEU:HB2	1:e:493:ASP:OD2	2.15	0.46
2:f:31:TYR:HD2	2:f:68:ARG:HE	1.63	0.46
1:A:46:ASP:CA	1:A:49:ILE:HG22	2.41	0.46
1:A:301:LEU:O	1:A:302:LEU:C	2.53	0.46
1:A:369:PHE:CE2	1:A:410:LEU:CD2	2.98	0.46
1:A:486:LEU:O	1:A:488:ARG:HG3	2.16	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:990:UNK:C	1:A:992:UNK:N	2.76	0.46
1:C:48:ILE:CG2	1:C:61:LEU:HB2	2.46	0.46
1:C:86:LYS:HD2	1:C:86:LYS:HA	1.53	0.46
1:C:134:LEU:HA	1:C:283:ILE:HD13	1.97	0.46
1:E:71:GLU:O	1:E:75:LYS:HG3	2.15	0.46
1:E:458:LEU:HB2	1:E:493:ASP:OD2	2.15	0.46
1:E:486:LEU:O	1:E:488:ARG:HG3	2.16	0.46
1:E:492:LEU:HD11	1:E:565:ALA:HB2	1.97	0.46
1:G:52:LYS:CD	1:G:53:ASP:CG	2.85	0.46
1:G:188:SER:C	1:G:191:THR:HG23	2.30	0.46
1:G:422:ILE:C	1:G:427:LEU:CD1	2.89	0.46
1:G:518:LEU:CD2	1:G:646:UNK:HA	2.42	0.46
1:I:322:ARG:HA	1:I:322:ARG:HD2	1.64	0.46
1:I:486:LEU:O	1:I:488:ARG:HG3	2.16	0.46
1:K:135:ARG:O	1:K:135:ARG:HG2	2.15	0.46
1:K:184:LYS:HZ2	1:K:184:LYS:HB2	1.81	0.46
1:K:235:LYS:HZ1	1:K:238:GLU:HG2	1.80	0.46
1:K:425:ILE:O	1:K:429:LEU:HD12	2.16	0.46
1:K:617:UNK:HA	1:K:904:UNK:CB	2.46	0.46
1:M:47:HIS:O	1:M:50:MET:HB3	2.12	0.46
1:M:86:LYS:HD2	1:M:86:LYS:HA	1.53	0.46
1:M:110:ARG:HH11	1:M:110:ARG:HG3	1.80	0.46
1:M:354:GLU:C	1:M:356:SER:N	2.73	0.46
1:M:492:LEU:CD1	1:M:561:LEU:HG	2.44	0.46
2:P:43:ILE:CG2	2:P:44:LEU:HD12	2.45	0.46
1:Q:127:ARG:NH2	1:Q:285:LEU:HD21	2.31	0.46
1:Q:207:TRP:HE1	1:Q:227:GLU:CB	2.28	0.46
1:Q:414:GLN:OE1	1:Q:421:SER:N	2.48	0.46
1:Q:422:ILE:C	1:Q:427:LEU:CD1	2.89	0.46
1:S:52:LYS:CD	1:S:53:ASP:CG	2.85	0.46
1:S:422:ILE:C	1:S:427:LEU:CD1	2.89	0.46
1:S:579:LYS:O	1:S:582:GLN:HB3	2.15	0.46
1:U:71:GLU:O	1:U:75:LYS:HG3	2.15	0.46
1:U:287:HIS:ND1	1:U:288:HIS:N	2.59	0.46
1:U:422:ILE:C	1:U:427:LEU:CD1	2.89	0.46
1:U:486:LEU:O	1:U:488:ARG:HG3	2.16	0.46
2:V:40:GLN:NE2	2:V:40:GLN:C	2.73	0.46
1:W:86:LYS:HD2	1:W:86:LYS:HA	1.53	0.46
1:W:92:ILE:C	1:W:94:THR:N	2.70	0.46
1:W:134:LEU:HA	1:W:283:ILE:HD13	1.97	0.46
1:Y:732:UNK:C	1:Y:734:UNK:N	2.78	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:c:178:ILE:HG23	1:c:241:LEU:HD22	1.90	0.46
1:c:354:GLU:C	1:c:356:SER:N	2.73	0.46
1:c:362:PRO:HA	1:c:366:ARG:HB3	1.96	0.46
2:d:10:MET:HB2	2:d:11:PRO:HD2	1.97	0.46
1:e:425:ILE:O	1:e:429:LEU:HD12	2.16	0.46
1:e:617:UNK:HA	1:e:904:UNK:CB	2.46	0.46
1:A:245:LEU:HD23	1:A:245:LEU:HA	1.79	0.46
1:A:338:TRP:HA	1:A:338:TRP:HE3	1.78	0.46
1:A:420:ILE:HG21	1:A:422:ILE:HD11	1.98	0.46
1:C:177:LYS:CE	1:C:237:TYR:CE1	2.98	0.46
1:C:492:LEU:CD1	1:C:561:LEU:HG	2.44	0.46
1:E:223:SER:O	1:E:224:ILE:C	2.58	0.46
1:E:287:HIS:ND1	1:E:288:HIS:N	2.59	0.46
1:E:302:LEU:O	1:E:303:LYS:C	2.58	0.46
1:E:422:ILE:C	1:E:427:LEU:CD1	2.89	0.46
1:E:732:UNK:C	1:E:734:UNK:N	2.78	0.46
2:F:82:ARG:NH1	2:F:82:ARG:CG	2.73	0.46
1:G:443:ILE:HG13	1:G:478:ILE:CG2	2.46	0.46
1:I:110:ARG:HH11	1:I:110:ARG:HG3	1.80	0.46
1:I:290:MET:H	1:I:290:MET:HG2	1.50	0.46
1:K:86:LYS:HD2	1:K:89:MET:HE2	1.95	0.46
1:K:186:CYS:C	1:K:191:THR:CG2	2.64	0.46
1:K:269:LYS:HA	1:K:272:THR:HG22	1.98	0.46
1:K:274:PHE:CG	1:K:275:LEU:CD1	2.99	0.46
1:K:488:ARG:CG	1:K:491:PHE:HB2	2.46	0.46
2:L:77:LEU:CA	2:L:80:THR:CG2	2.93	0.46
1:M:362:PRO:HA	1:M:366:ARG:HB3	1.96	0.46
1:M:488:ARG:CG	1:M:491:PHE:HB2	2.46	0.46
1:M:1187:UNK:O	1:M:1188:UNK:C	2.59	0.46
1:O:422:ILE:C	1:O:427:LEU:CD1	2.89	0.46
2:P:77:LEU:CA	2:P:80:THR:CG2	2.93	0.46
1:Q:288:HIS:HD2	1:Q:288:HIS:H	1.57	0.46
1:Q:732:UNK:C	1:Q:734:UNK:N	2.78	0.46
1:S:106:TYR:CD1	1:S:106:TYR:C	2.94	0.46
1:S:443:ILE:HG13	1:S:478:ILE:CG2	2.46	0.46
1:S:617:UNK:HA	1:S:904:UNK:CB	2.46	0.46
1:U:88:LEU:CD1	1:U:88:LEU:N	2.78	0.46
1:U:177:LYS:CE	1:U:237:TYR:CE1	2.98	0.46
1:U:291:THR:O	1:U:292:LEU:C	2.58	0.46
1:U:492:LEU:HD11	1:U:565:ALA:HB2	1.97	0.46
1:W:177:LYS:CE	1:W:237:TYR:CE1	2.98	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:W:422:ILE:C	1:W:427:LEU:CD1	2.89	0.46
2:X:43:ILE:CG2	2:X:44:LEU:HD12	2.45	0.46
2:X:77:LEU:CA	2:X:80:THR:CG2	2.93	0.46
1:Y:48:ILE:CG2	1:Y:61:LEU:HB2	2.46	0.46
1:Y:120:PHE:O	1:Y:121:ALA:C	2.54	0.46
1:Y:288:HIS:HD2	1:Y:288:HIS:H	1.57	0.46
1:a:443:ILE:HG13	1:a:478:ILE:CG2	2.46	0.46
1:a:519:GLN:HG3	1:a:523:PHE:CZ	2.50	0.46
2:b:77:LEU:CA	2:b:80:THR:CG2	2.93	0.46
1:c:310:GLN:O	1:c:313:PRO:N	2.48	0.46
1:c:422:ILE:C	1:c:427:LEU:CD1	2.89	0.46
1:c:488:ARG:CG	1:c:491:PHE:HB2	2.46	0.46
1:c:535:TYR:O	1:c:538:LEU:HB3	2.15	0.46
1:e:274:PHE:CG	1:e:275:LEU:CD1	2.99	0.46
1:e:488:ARG:CG	1:e:491:PHE:HB2	2.46	0.46
2:f:77:LEU:CA	2:f:80:THR:CG2	2.93	0.46
1:A:249:ASN:HD22	1:A:268:PHE:HE2	1.64	0.46
1:A:404:LYS:HE2	1:A:404:LYS:CA	2.41	0.46
1:C:92:ILE:C	1:C:94:THR:N	2.70	0.46
1:C:183:LEU:CB	1:C:186:CYS:SG	3.04	0.46
1:C:354:GLU:C	1:C:356:SER:N	2.73	0.46
1:C:422:ILE:C	1:C:427:LEU:CD1	2.89	0.46
2:D:43:ILE:CG2	2:D:44:LEU:HD12	2.45	0.46
2:D:77:LEU:CA	2:D:80:THR:CG2	2.93	0.46
1:E:88:LEU:CD1	1:E:88:LEU:N	2.78	0.46
1:E:192:VAL:HG23	1:E:221:ILE:HD12	1.92	0.46
1:E:291:THR:O	1:E:292:LEU:C	2.58	0.46
1:E:360:LEU:O	1:E:361:GLU:C	2.57	0.46
1:E:488:ARG:HH11	1:E:488:ARG:HG3	1.75	0.46
2:F:17:HIS:HD2	2:F:109:VAL:HG11	1.77	0.46
2:F:43:ILE:CG2	2:F:44:LEU:HD12	2.45	0.46
1:G:106:TYR:CD1	1:G:106:TYR:C	2.94	0.46
1:G:360:LEU:O	1:G:361:GLU:C	2.57	0.46
1:G:617:UNK:HA	1:G:904:UNK:CB	2.46	0.46
2:H:40:GLN:NE2	2:H:40:GLN:C	2.73	0.46
1:I:435:ASN:HD22	1:I:435:ASN:HA	1.56	0.46
1:I:519:GLN:HG3	1:I:523:PHE:CZ	2.50	0.46
1:I:835:UNK:CB	1:I:836:UNK:H2	2.28	0.46
1:I:990:UNK:C	1:I:992:UNK:N	2.76	0.46
1:K:183:LEU:CB	1:K:186:CYS:SG	3.04	0.46
1:K:422:ILE:CG2	1:K:427:LEU:HD12	2.46	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:138:LEU:HD11	1:M:263:LEU:HD22	1.98	0.46
1:M:183:LEU:CB	1:M:186:CYS:SG	3.04	0.46
1:M:188:SER:C	1:M:190:GLU:N	2.73	0.46
1:M:310:GLN:O	1:M:313:PRO:N	2.48	0.46
1:M:376:PRO:CG	1:M:470:HIS:CD2	2.99	0.46
1:M:422:ILE:C	1:M:427:LEU:CD1	2.89	0.46
1:M:535:TYR:O	1:M:538:LEU:HB3	2.15	0.46
2:N:10:MET:HB2	2:N:11:PRO:HD2	1.97	0.46
2:N:77:LEU:CA	2:N:80:THR:CG2	2.93	0.46
1:O:138:LEU:HD11	1:O:263:LEU:HD22	1.98	0.46
1:O:242:LEU:CD2	1:O:262:ILE:HG22	2.46	0.46
1:O:372:LEU:HD11	1:O:422:ILE:CB	2.45	0.46
1:O:443:ILE:HG13	1:O:478:ILE:CG2	2.46	0.46
1:O:519:GLN:HG3	1:O:523:PHE:CZ	2.50	0.46
1:Q:48:ILE:CG2	1:Q:61:LEU:HB2	2.46	0.46
1:Q:249:ASN:HD22	1:Q:268:PHE:HE2	1.64	0.46
1:S:166:LEU:C	1:S:166:LEU:CD2	2.86	0.46
1:S:488:ARG:HH11	1:S:488:ARG:HG3	1.75	0.46
2:T:40:GLN:NE2	2:T:40:GLN:C	2.73	0.46
1:U:223:SER:O	1:U:224:ILE:C	2.58	0.46
1:U:732:UNK:C	1:U:734:UNK:N	2.78	0.46
1:W:183:LEU:CB	1:W:186:CYS:SG	3.04	0.46
1:W:237:TYR:CD1	1:W:237:TYR:N	2.80	0.46
1:W:354:GLU:C	1:W:356:SER:N	2.73	0.46
1:W:406:HIS:ND1	1:W:406:HIS:C	2.73	0.46
1:W:492:LEU:CD1	1:W:561:LEU:HG	2.44	0.46
1:Y:249:ASN:HD22	1:Y:268:PHE:HE2	1.64	0.46
1:Y:399:MET:HE2	1:Y:399:MET:HB2	1.66	0.46
2:Z:10:MET:HB2	2:Z:11:PRO:HD2	1.97	0.46
1:a:138:LEU:HD11	1:a:263:LEU:HD22	1.98	0.46
1:a:183:LEU:CB	1:a:186:CYS:SG	3.04	0.46
1:a:242:LEU:CD2	1:a:262:ILE:HG22	2.46	0.46
1:c:138:LEU:HD11	1:c:263:LEU:HD22	1.98	0.46
1:c:183:LEU:CB	1:c:186:CYS:SG	3.04	0.46
1:c:376:PRO:CG	1:c:470:HIS:CD2	2.99	0.46
1:c:492:LEU:CD1	1:c:561:LEU:HG	2.44	0.46
2:d:77:LEU:CA	2:d:80:THR:CG2	2.93	0.46
1:e:134:LEU:HA	1:e:283:ILE:HD13	1.97	0.46
1:e:183:LEU:CB	1:e:186:CYS:SG	3.04	0.46
1:e:235:LYS:HZ1	1:e:238:GLU:HG2	1.80	0.46
1:e:269:LYS:HA	1:e:272:THR:HG22	1.98	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:e:422:ILE:CG2	1:e:427:LEU:HD12	2.46	0.46
1:e:486:LEU:O	1:e:488:ARG:HG3	2.16	0.46
1:A:42:LYS:C	1:A:45:ILE:HG22	2.41	0.46
1:A:125:VAL:HG21	1:A:300:LEU:HA	1.97	0.46
1:A:422:ILE:C	1:A:427:LEU:CD1	2.89	0.46
1:A:464:ASP:OD1	1:A:501:ILE:CD1	2.49	0.46
1:A:519:GLN:HG3	1:A:523:PHE:CZ	2.50	0.46
1:A:835:UNK:CB	1:A:836:UNK:H2	2.28	0.46
1:C:291:THR:O	1:C:292:LEU:C	2.58	0.46
1:C:406:HIS:C	1:C:406:HIS:ND1	2.73	0.46
1:C:488:ARG:HH11	1:C:488:ARG:HG3	1.75	0.46
1:E:46:ASP:CA	1:E:49:ILE:HG22	2.41	0.46
1:E:106:TYR:CD1	1:E:106:TYR:C	2.94	0.46
1:E:561:LEU:O	1:E:564:ILE:HG12	2.16	0.46
1:E:869:UNK:O	1:E:870:UNK:CB	2.61	0.46
1:G:51:SER:O	1:G:51:SER:OG	2.26	0.46
1:G:184:LYS:HZ2	1:G:184:LYS:HB2	1.81	0.46
2:H:10:MET:HB2	2:H:11:PRO:HD2	1.97	0.46
1:I:42:LYS:C	1:I:45:ILE:HG22	2.41	0.46
1:I:125:VAL:HG21	1:I:300:LEU:HA	1.97	0.46
1:I:183:LEU:CB	1:I:186:CYS:SG	3.04	0.46
1:I:249:ASN:HD22	1:I:268:PHE:HE2	1.64	0.46
1:I:420:ILE:HG21	1:I:422:ILE:HD11	1.98	0.46
1:I:422:ILE:C	1:I:427:LEU:CD1	2.89	0.46
1:K:48:ILE:CG2	1:K:61:LEU:HB2	2.46	0.46
1:K:127:ARG:NH2	1:K:285:LEU:HD21	2.31	0.46
1:K:134:LEU:HA	1:K:283:ILE:HD13	1.97	0.46
1:K:486:LEU:O	1:K:488:ARG:HG3	2.16	0.46
1:M:732:UNK:C	1:M:734:UNK:N	2.78	0.46
2:N:57:GLY:H	2:N:59:PRO:HD3	1.81	0.46
1:O:158:THR:HG23	1:O:159:TRP:CD1	2.41	0.46
1:O:183:LEU:CB	1:O:186:CYS:SG	3.04	0.46
1:O:249:ASN:HD22	1:O:268:PHE:HE2	1.64	0.46
1:O:360:LEU:O	1:O:361:GLU:C	2.57	0.46
1:O:718:UNK:O	1:O:725:UNK:HA	2.15	0.46
1:Q:46:ASP:O	1:Q:50:MET:CA	2.63	0.46
1:Q:322:ARG:HA	1:Q:322:ARG:HD2	1.64	0.46
1:Q:617:UNK:HA	1:Q:904:UNK:CB	2.46	0.46
2:R:43:ILE:CG2	2:R:44:LEU:HD12	2.45	0.46
2:R:57:GLY:O	2:R:59:PRO:HD2	2.06	0.46
2:R:77:LEU:CA	2:R:80:THR:CG2	2.93	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:S:82:ARG:CG	1:S:82:ARG:NH1	2.72	0.46
1:S:188:SER:C	1:S:191:THR:HG23	2.30	0.46
2:T:10:MET:HB2	2:T:11:PRO:HD2	1.97	0.46
2:T:77:LEU:HA	2:T:77:LEU:HD12	1.80	0.46
1:U:15:ILE:HG21	1:U:95:GLU:HB3	1.78	0.46
1:U:48:ILE:CG2	1:U:61:LEU:HB2	2.46	0.46
1:U:106:TYR:CD1	1:U:106:TYR:C	2.94	0.46
1:U:288:HIS:HD2	1:U:288:HIS:H	1.57	0.46
1:U:302:LEU:O	1:U:303:LYS:C	2.58	0.46
1:U:360:LEU:O	1:U:361:GLU:C	2.57	0.46
1:U:835:UNK:CB	1:U:836:UNK:H2	2.28	0.46
2:V:43:ILE:CG2	2:V:44:LEU:HD12	2.45	0.46
1:W:231:LEU:O	1:W:234:SER:CB	2.59	0.46
1:W:291:THR:O	1:W:292:LEU:C	2.58	0.46
1:W:372:LEU:HD11	1:W:422:ILE:CB	2.45	0.46
1:W:443:ILE:HG13	1:W:478:ILE:CG2	2.46	0.46
1:W:486:LEU:O	1:W:488:ARG:HG3	2.16	0.46
1:W:492:LEU:HD11	1:W:565:ALA:HB2	1.97	0.46
1:Y:183:LEU:HD23	1:Y:183:LEU:HA	1.72	0.46
1:Y:242:LEU:CD2	1:Y:262:ILE:HG22	2.46	0.46
1:Y:617:UNK:HA	1:Y:904:UNK:CB	2.46	0.46
2:Z:43:ILE:CG2	2:Z:44:LEU:HD12	2.45	0.46
2:Z:77:LEU:CA	2:Z:80:THR:CG2	2.93	0.46
1:a:249:ASN:HD22	1:a:268:PHE:HE2	1.64	0.46
1:a:279:THR:CG2	1:c:118:GLN:HE21	2.15	0.46
1:a:360:LEU:O	1:a:361:GLU:C	2.57	0.46
1:a:372:LEU:HD11	1:a:422:ILE:CB	2.45	0.46
1:a:406:HIS:C	1:a:406:HIS:ND1	2.73	0.46
1:c:188:SER:C	1:c:190:GLU:N	2.73	0.46
2:d:57:GLY:H	2:d:59:PRO:HD3	1.81	0.46
1:e:48:ILE:CG2	1:e:61:LEU:HB2	2.46	0.46
1:e:86:LYS:HD2	1:e:89:MET:HE2	1.95	0.46
1:e:127:ARG:NH2	1:e:285:LEU:HD21	2.31	0.46
1:A:183:LEU:CB	1:A:186:CYS:SG	3.04	0.46
1:A:188:SER:C	1:A:190:GLU:N	2.73	0.46
1:A:196:LEU:CD1	1:A:228:LEU:HD22	2.46	0.46
2:B:43:ILE:CG2	2:B:44:LEU:HD12	2.45	0.46
1:C:237:TYR:CD1	1:C:237:TYR:N	2.80	0.46
1:C:249:ASN:HD22	1:C:268:PHE:HE2	1.64	0.46
1:C:372:LEU:HD11	1:C:422:ILE:CB	2.45	0.46
1:C:443:ILE:HG13	1:C:478:ILE:CG2	2.46	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:483:ARG:NH1	1:C:489:MET:HE1	2.31	0.46
1:C:486:LEU:O	1:C:488:ARG:HG3	2.16	0.46
1:C:492:LEU:HD11	1:C:565:ALA:HB2	1.97	0.46
2:D:31:TYR:HD2	2:D:68:ARG:HE	1.63	0.46
2:D:40:GLN:NE2	2:D:40:GLN:C	2.73	0.46
1:E:135:ARG:O	1:E:135:ARG:HG2	2.15	0.46
1:E:183:LEU:CB	1:E:186:CYS:SG	3.04	0.46
1:E:242:LEU:CD2	1:E:262:ILE:HG22	2.46	0.46
1:E:279:THR:HG23	1:E:280:THR:HG22	1.97	0.46
1:E:420:ILE:HG21	1:E:422:ILE:HD11	1.98	0.46
1:E:835:UNK:CB	1:E:836:UNK:H2	2.28	0.46
1:G:177:LYS:HE2	1:G:237:TYR:HE1	1.78	0.46
1:G:249:ASN:HD22	1:G:268:PHE:HE2	1.64	0.46
1:G:377:PRO:HB3	1:G:428:GLU:CG	2.43	0.46
1:I:196:LEU:CD1	1:I:228:LEU:HD22	2.46	0.46
1:I:338:TRP:HA	1:I:338:TRP:HE3	1.78	0.46
2:J:43:ILE:CG2	2:J:44:LEU:HD12	2.45	0.46
1:K:249:ASN:HD22	1:K:268:PHE:HE2	1.64	0.46
1:K:423:PRO:C	1:K:427:LEU:HB2	2.41	0.46
1:K:460:PRO:HG3	1:K:462:TYR:CZ	2.50	0.46
2:L:75:LEU:O	2:L:79:ILE:HG12	2.16	0.46
1:M:458:LEU:HB2	1:M:493:ASP:OD2	2.15	0.46
1:M:561:LEU:O	1:M:564:ILE:HG12	2.16	0.46
1:O:42:LYS:C	1:O:45:ILE:HG22	2.41	0.46
1:O:114:TYR:C	1:O:117:ASN:O	2.53	0.46
1:O:125:VAL:HG21	1:O:300:LEU:HA	1.97	0.46
1:O:134:LEU:HA	1:O:283:ILE:HD13	1.97	0.46
1:O:406:HIS:C	1:O:406:HIS:ND1	2.73	0.46
1:O:492:LEU:HD11	1:O:565:ALA:HB2	1.97	0.46
1:O:561:LEU:O	1:O:564:ILE:HG12	2.16	0.46
1:Q:88:LEU:CD1	1:Q:88:LEU:N	2.78	0.46
1:Q:120:PHE:O	1:Q:121:ALA:C	2.54	0.46
1:Q:242:LEU:CD2	1:Q:262:ILE:HG22	2.46	0.46
1:Q:483:ARG:NH1	1:Q:489:MET:HE1	2.31	0.46
1:Q:488:ARG:CG	1:Q:491:PHE:HB2	2.46	0.46
2:R:10:MET:HB2	2:R:11:PRO:HD2	1.97	0.46
1:S:183:LEU:HB3	1:S:186:CYS:CB	2.46	0.46
1:S:243:VAL:CG1	1:S:263:LEU:CG	2.73	0.46
1:S:249:ASN:HD22	1:S:268:PHE:HE2	1.64	0.46
1:S:360:LEU:O	1:S:361:GLU:C	2.57	0.46
1:S:376:PRO:CG	1:S:470:HIS:CD2	2.99	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:U:242:LEU:CD2	1:U:262:ILE:HG22	2.46	0.46
1:U:420:ILE:HG21	1:U:422:ILE:HD11	1.98	0.46
1:U:561:LEU:O	1:U:564:ILE:HG12	2.16	0.46
2:V:82:ARG:NH1	2:V:82:ARG:CG	2.73	0.46
1:W:249:ASN:HD22	1:W:268:PHE:HE2	1.64	0.46
1:W:290:MET:H	1:W:290:MET:HG2	1.49	0.46
1:W:458:LEU:HB2	1:W:493:ASP:OD2	2.15	0.46
1:W:483:ARG:NH1	1:W:489:MET:HE1	2.31	0.46
1:Y:46:ASP:O	1:Y:50:MET:CA	2.63	0.46
1:Y:183:LEU:CB	1:Y:186:CYS:SG	3.04	0.46
1:Y:483:ARG:NH1	1:Y:489:MET:HE1	2.31	0.46
1:Y:488:ARG:CG	1:Y:491:PHE:HB2	2.46	0.46
1:a:42:LYS:C	1:a:45:ILE:HG22	2.41	0.46
1:a:125:VAL:HG21	1:a:300:LEU:HA	1.97	0.46
1:a:158:THR:HG23	1:a:159:TRP:CD1	2.41	0.46
1:a:561:LEU:O	1:a:564:ILE:HG12	2.16	0.46
1:a:718:UNK:O	1:a:725:UNK:HA	2.15	0.46
1:c:561:LEU:O	1:c:564:ILE:HG12	2.16	0.46
2:d:81:GLN:HA	2:d:81:GLN:NE2	2.08	0.46
1:e:88:LEU:CA	1:e:91:PRO:HD2	2.39	0.46
1:e:249:ASN:HD22	1:e:268:PHE:HE2	1.64	0.46
1:e:354:GLU:C	1:e:356:SER:N	2.73	0.46
1:e:423:PRO:C	1:e:427:LEU:HB2	2.41	0.46
1:e:460:PRO:HG3	1:e:462:TYR:CZ	2.50	0.46
2:f:75:LEU:O	2:f:79:ILE:HG12	2.16	0.46
2:f:81:GLN:HA	2:f:81:GLN:NE2	2.08	0.46
1:A:357:LEU:HB3	1:A:366:ARG:NH1	2.31	0.46
1:A:443:ILE:HG13	1:A:478:ILE:CG2	2.45	0.46
1:A:458:LEU:HB2	1:A:493:ASP:OD2	2.15	0.46
1:C:86:LYS:HD2	1:C:89:MET:HE2	1.95	0.46
1:C:357:LEU:HB3	1:C:366:ARG:NH1	2.31	0.46
2:D:10:MET:HB2	2:D:11:PRO:HD2	1.97	0.46
1:E:48:ILE:CG2	1:E:61:LEU:HB2	2.46	0.46
1:E:249:ASN:HD22	1:E:268:PHE:HE2	1.64	0.46
1:E:288:HIS:HD2	1:E:288:HIS:H	1.57	0.46
1:E:357:LEU:HB3	1:E:366:ARG:NH1	2.31	0.46
1:E:443:ILE:HG13	1:E:478:ILE:CG2	2.45	0.46
1:E:617:UNK:HA	1:E:904:UNK:CB	2.46	0.46
2:F:93:ALA:O	2:F:97:ILE:HG12	2.16	0.46
1:G:100:SER:O	1:G:101:MET:C	2.55	0.46
1:G:183:LEU:HB3	1:G:186:CYS:CB	2.46	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:232:LEU:O	1:G:234:SER:N	2.47	0.46
1:G:274:PHE:CG	1:G:275:LEU:CD1	2.99	0.46
1:G:357:LEU:HB3	1:G:366:ARG:NH1	2.31	0.46
1:G:376:PRO:CG	1:G:470:HIS:CD2	2.99	0.46
1:G:420:ILE:HG21	1:G:422:ILE:HD11	1.98	0.46
1:G:425:ILE:O	1:G:429:LEU:HD12	2.16	0.46
1:G:458:LEU:HB2	1:G:493:ASP:OD2	2.15	0.46
1:I:188:SER:C	1:I:190:GLU:N	2.73	0.46
1:I:404:LYS:HE2	1:I:404:LYS:CA	2.41	0.46
1:I:458:LEU:HB2	1:I:493:ASP:OD2	2.15	0.46
1:K:51:SER:O	1:K:51:SER:OG	2.26	0.46
1:K:360:LEU:CG	1:K:365:TYR:CB	2.48	0.46
2:L:57:GLY:H	2:L:59:PRO:HD3	1.81	0.46
1:M:249:ASN:HD22	1:M:268:PHE:HE2	1.64	0.46
1:M:425:ILE:O	1:M:429:LEU:HD12	2.16	0.46
1:O:76:PHE:C	1:O:76:PHE:CD1	2.88	0.46
1:O:208:THR:O	1:O:208:THR:OG1	2.26	0.46
1:O:483:ARG:NH1	1:O:489:MET:HE1	2.31	0.46
1:Q:71:GLU:O	1:Q:75:LYS:HG3	2.15	0.46
1:Q:183:LEU:CB	1:Q:186:CYS:SG	3.04	0.46
1:Q:274:PHE:CG	1:Q:275:LEU:CD1	2.99	0.46
1:Q:443:ILE:HG13	1:Q:478:ILE:CG2	2.45	0.46
2:R:81:GLN:CA	2:R:81:GLN:NE2	2.73	0.46
1:S:100:SER:O	1:S:101:MET:C	2.55	0.46
1:S:232:LEU:O	1:S:234:SER:N	2.47	0.46
1:S:274:PHE:CG	1:S:275:LEU:CD1	2.99	0.46
1:S:357:LEU:HB3	1:S:366:ARG:NH1	2.31	0.46
1:S:377:PRO:HB3	1:S:428:GLU:CG	2.43	0.46
1:S:425:ILE:O	1:S:429:LEU:HD12	2.16	0.46
1:S:458:LEU:HB2	1:S:493:ASP:OD2	2.15	0.46
1:S:492:LEU:HD11	1:S:565:ALA:HB2	1.97	0.46
1:U:135:ARG:O	1:U:135:ARG:HG2	2.15	0.46
1:U:183:LEU:CB	1:U:186:CYS:SG	3.04	0.46
1:U:249:ASN:HD22	1:U:268:PHE:HE2	1.64	0.46
1:U:279:THR:HG23	1:U:280:THR:HG22	1.97	0.46
1:U:357:LEU:HB3	1:U:366:ARG:NH1	2.31	0.46
1:U:443:ILE:HG13	1:U:478:ILE:CG2	2.45	0.46
1:U:519:GLN:HG3	1:U:523:PHE:CZ	2.50	0.46
1:U:1152:UNK:HA	1:U:1164:UNK:HA	1.98	0.46
2:V:93:ALA:O	2:V:97:ILE:HG12	2.16	0.46
1:W:223:SER:O	1:W:224:ILE:C	2.58	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:W:357:LEU:HB3	1:W:366:ARG:NH1	2.31	0.46
2:X:10:MET:HB2	2:X:11:PRO:HD2	1.97	0.46
2:X:31:TYR:HD2	2:X:68:ARG:HE	1.63	0.46
2:X:40:GLN:NE2	2:X:40:GLN:C	2.73	0.46
2:X:93:ALA:O	2:X:97:ILE:HG12	2.16	0.46
1:Y:88:LEU:CD1	1:Y:88:LEU:N	2.78	0.46
1:Y:166:LEU:CD2	1:Y:167:SER:HA	2.42	0.46
1:Y:274:PHE:CG	1:Y:275:LEU:CD1	2.99	0.46
1:Y:443:ILE:HG13	1:Y:478:ILE:CG2	2.45	0.46
1:Y:518:LEU:CD2	1:Y:646:UNK:HA	2.42	0.46
1:a:483:ARG:NH1	1:a:489:MET:HE1	2.31	0.46
1:a:492:LEU:HD11	1:a:565:ALA:HB2	1.97	0.46
1:c:249:ASN:HD22	1:c:268:PHE:HE2	1.64	0.46
1:c:425:ILE:O	1:c:429:LEU:HD12	2.16	0.46
1:c:458:LEU:HB2	1:c:493:ASP:OD2	2.15	0.46
1:e:92:ILE:C	1:e:94:THR:N	2.70	0.46
1:A:86:LYS:HD2	1:A:89:MET:HE2	1.95	0.45
1:A:106:TYR:CD1	1:A:106:TYR:C	2.94	0.45
1:A:488:ARG:CG	1:A:491:PHE:HB2	2.46	0.45
1:C:84:ASN:OD1	1:C:85:TYR:CE2	2.66	0.45
1:C:188:SER:C	1:C:190:GLU:N	2.73	0.45
1:C:223:SER:O	1:C:224:ILE:C	2.58	0.45
1:C:231:LEU:O	1:C:234:SER:CB	2.59	0.45
1:C:232:LEU:O	1:C:234:SER:N	2.47	0.45
1:C:242:LEU:CD2	1:C:262:ILE:HG22	2.46	0.45
1:C:458:LEU:HB2	1:C:493:ASP:OD2	2.15	0.45
2:D:93:ALA:O	2:D:97:ILE:HG12	2.16	0.45
1:E:253:TRP:C	1:E:255:ALA:N	2.67	0.45
1:E:290:MET:H	1:E:290:MET:HG2	1.50	0.45
1:E:1152:UNK:HA	1:E:1164:UNK:HA	1.98	0.45
1:G:166:LEU:C	1:G:166:LEU:CD2	2.86	0.45
1:G:406:HIS:C	1:G:406:HIS:ND1	2.73	0.45
1:G:486:LEU:O	1:G:488:ARG:HG3	2.16	0.45
1:G:492:LEU:HD11	1:G:565:ALA:HB2	1.97	0.45
2:H:22:LEU:HD11	2:H:77:LEU:CD1	2.34	0.45
1:I:357:LEU:HB3	1:I:366:ARG:NH1	2.31	0.45
1:I:443:ILE:HG13	1:I:478:ILE:CG2	2.45	0.45
1:K:92:ILE:C	1:K:94:THR:N	2.70	0.45
1:K:138:LEU:HD11	1:K:263:LEU:HD22	1.98	0.45
1:K:196:LEU:CD1	1:K:228:LEU:HD22	2.46	0.45
1:K:354:GLU:C	1:K:356:SER:N	2.73	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:42:LYS:C	1:M:45:ILE:HG22	2.41	0.45
1:M:326:ILE:HD11	1:M:348:LYS:HB3	1.98	0.45
1:M:368:MET:O	1:M:370:ASP:N	2.49	0.45
1:M:617:UNK:HA	1:M:904:UNK:CB	2.46	0.45
2:N:31:TYR:HD2	2:N:68:ARG:HE	1.63	0.45
1:O:48:ILE:CG2	1:O:61:LEU:HB2	2.46	0.45
1:O:235:LYS:N	1:O:236:PRO:HD2	2.32	0.45
1:O:368:MET:O	1:O:370:ASP:N	2.49	0.45
1:O:488:ARG:NH1	1:O:488:ARG:HG3	2.29	0.45
2:P:49:LEU:HD22	2:P:49:LEU:HA	1.69	0.45
1:Q:76:PHE:CD1	1:Q:76:PHE:C	2.88	0.45
1:Q:138:LEU:HD11	1:Q:263:LEU:HD22	1.98	0.45
1:Q:174:MET:HE3	1:Q:174:MET:HB2	1.76	0.45
1:Q:183:LEU:HB3	1:Q:186:CYS:CB	2.46	0.45
1:Q:235:LYS:N	1:Q:236:PRO:HD2	2.32	0.45
1:S:406:HIS:C	1:S:406:HIS:ND1	2.73	0.45
1:S:420:ILE:HG21	1:S:422:ILE:HD11	1.98	0.45
1:U:46:ASP:CA	1:U:49:ILE:HG22	2.41	0.45
1:U:129:GLN:CB	1:U:130:PRO:CD	2.84	0.45
1:U:192:VAL:HG23	1:U:221:ILE:HD12	1.92	0.45
1:U:237:TYR:CD1	1:U:237:TYR:N	2.80	0.45
1:U:488:ARG:HH11	1:U:488:ARG:HG3	1.75	0.45
1:U:617:UNK:HA	1:U:904:UNK:CB	2.46	0.45
2:V:10:MET:HB2	2:V:11:PRO:HD2	1.97	0.45
1:W:86:LYS:HD2	1:W:89:MET:HE2	1.95	0.45
1:W:232:LEU:O	1:W:234:SER:N	2.47	0.45
1:W:235:LYS:N	1:W:236:PRO:HD2	2.32	0.45
1:W:488:ARG:HH11	1:W:488:ARG:HG3	1.75	0.45
1:W:561:LEU:O	1:W:564:ILE:HG12	2.16	0.45
1:W:990:UNK:C	1:W:992:UNK:N	2.76	0.45
1:Y:76:PHE:CD1	1:Y:76:PHE:C	2.88	0.45
1:Y:138:LEU:HD11	1:Y:263:LEU:HD22	1.98	0.45
1:Y:183:LEU:HB3	1:Y:186:CYS:CB	2.46	0.45
1:Y:235:LYS:N	1:Y:236:PRO:HD2	2.32	0.45
1:Y:435:ASN:HD22	1:Y:435:ASN:HA	1.56	0.45
1:a:48:ILE:CG2	1:a:61:LEU:HB2	2.46	0.45
1:a:76:PHE:CD1	1:a:76:PHE:C	2.88	0.45
1:a:134:LEU:HA	1:a:283:ILE:HD13	1.97	0.45
1:a:235:LYS:N	1:a:236:PRO:HD2	2.32	0.45
1:c:42:LYS:C	1:c:45:ILE:HG22	2.41	0.45
1:c:326:ILE:HD11	1:c:348:LYS:HB3	1.98	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:d:31:TYR:HD2	2:d:68:ARG:HE	1.63	0.45
1:e:138:LEU:HD11	1:e:263:LEU:HD22	1.98	0.45
2:f:57:GLY:H	2:f:59:PRO:HD3	1.81	0.45
1:A:251:LYS:CD	1:A:252:ALA:N	2.80	0.45
1:A:411:VAL:N	1:A:423:PRO:CD	2.73	0.45
1:A:492:LEU:HD11	1:A:565:ALA:HB2	1.97	0.45
1:C:29:CYS:HA	1:C:32:VAL:CG2	2.41	0.45
1:C:196:LEU:CD1	1:C:228:LEU:HD22	2.46	0.45
1:C:235:LYS:N	1:C:236:PRO:HD2	2.32	0.45
1:C:561:LEU:O	1:C:564:ILE:HG12	2.16	0.45
1:C:1152:UNK:HA	1:C:1164:UNK:HA	1.98	0.45
1:E:42:LYS:C	1:E:45:ILE:HG22	2.41	0.45
1:E:86:LYS:HD2	1:E:89:MET:HE2	1.95	0.45
1:E:127:ARG:NH2	1:E:285:LEU:HD21	2.31	0.45
1:E:376:PRO:CG	1:E:470:HIS:CD2	2.99	0.45
1:E:519:GLN:HG3	1:E:523:PHE:CZ	2.50	0.45
2:F:10:MET:HB2	2:F:11:PRO:HD2	1.97	0.45
1:G:82:ARG:CG	1:G:82:ARG:NH1	2.72	0.45
1:G:86:LYS:HD2	1:G:89:MET:HE2	1.95	0.45
1:G:290:MET:H	1:G:290:MET:HG2	1.49	0.45
1:G:519:GLN:HG3	1:G:523:PHE:CZ	2.50	0.45
1:G:557:LYS:CE	1:G:558:TYR:N	2.80	0.45
1:I:86:LYS:HD2	1:I:89:MET:HE2	1.95	0.45
1:I:106:TYR:CD1	1:I:106:TYR:C	2.94	0.45
1:I:251:LYS:CD	1:I:252:ALA:N	2.80	0.45
1:I:381:ILE:N	1:I:420:ILE:O	2.48	0.45
1:I:464:ASP:OD1	1:I:501:ILE:CD1	2.49	0.45
1:I:488:ARG:CG	1:I:491:PHE:HB2	2.46	0.45
2:J:75:LEU:O	2:J:79:ILE:HG12	2.16	0.45
1:K:40:LEU:CD2	1:K:40:LEU:N	2.73	0.45
1:K:146:ASN:O	1:K:280:THR:CB	2.47	0.45
1:K:322:ARG:HD2	1:K:322:ARG:HA	1.64	0.45
1:K:357:LEU:HB3	1:K:366:ARG:NH1	2.31	0.45
1:K:557:LYS:CE	1:K:558:TYR:N	2.80	0.45
2:L:93:ALA:O	2:L:97:ILE:HG12	2.16	0.45
1:M:48:ILE:CG2	1:M:61:LEU:HB2	2.46	0.45
1:M:88:LEU:CD1	1:M:88:LEU:N	2.78	0.45
1:M:106:TYR:CD1	1:M:106:TYR:C	2.94	0.45
1:M:127:ARG:NH2	1:M:285:LEU:HD21	2.31	0.45
1:M:399:MET:HE2	1:M:399:MET:HB2	1.66	0.45
1:M:423:PRO:C	1:M:427:LEU:HB2	2.41	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:N:75:LEU:O	2:N:79:ILE:HG12	2.16	0.45
2:N:81:GLN:HA	2:N:81:GLN:NE2	2.08	0.45
1:O:326:ILE:HD11	1:O:348:LYS:HB3	1.98	0.45
1:O:488:ARG:CG	1:O:491:PHE:HB2	2.46	0.45
1:Q:158:THR:HG23	1:Q:159:TRP:CD1	2.41	0.45
1:Q:251:LYS:CD	1:Q:252:ALA:N	2.80	0.45
1:Q:465:GLN:HE21	1:Q:502:ARG:NH1	2.13	0.45
1:Q:486:LEU:O	1:Q:488:ARG:HG3	2.16	0.45
1:S:177:LYS:HE2	1:S:237:TYR:HE1	1.78	0.45
1:S:291:THR:O	1:S:292:LEU:C	2.58	0.45
1:S:519:GLN:HG3	1:S:523:PHE:CZ	2.50	0.45
1:S:557:LYS:CE	1:S:558:TYR:N	2.80	0.45
2:T:93:ALA:O	2:T:97:ILE:HG12	2.16	0.45
1:U:42:LYS:C	1:U:45:ILE:HG22	2.41	0.45
1:U:376:PRO:CG	1:U:470:HIS:CD2	2.99	0.45
1:U:483:ARG:NH1	1:U:489:MET:HE1	2.31	0.45
1:W:188:SER:C	1:W:190:GLU:N	2.73	0.45
1:W:196:LEU:CD1	1:W:228:LEU:HD22	2.46	0.45
1:W:1152:UNK:HA	1:W:1164:UNK:HA	1.98	0.45
1:Y:46:ASP:CA	1:Y:49:ILE:HG22	2.41	0.45
1:Y:71:GLU:O	1:Y:75:LYS:HG3	2.15	0.45
1:Y:110:ARG:HH11	1:Y:110:ARG:HG3	1.80	0.45
1:Y:486:LEU:O	1:Y:488:ARG:HG3	2.16	0.45
1:a:114:TYR:C	1:a:117:ASN:O	2.53	0.45
1:a:237:TYR:CD1	1:a:237:TYR:N	2.80	0.45
1:a:326:ILE:HD11	1:a:348:LYS:HB3	1.98	0.45
1:a:368:MET:O	1:a:370:ASP:N	2.49	0.45
1:a:420:ILE:HG21	1:a:422:ILE:HD11	1.98	0.45
1:a:422:ILE:CG2	1:a:427:LEU:HD12	2.46	0.45
1:a:617:UNK:HA	1:a:904:UNK:CB	2.46	0.45
1:c:48:ILE:CG2	1:c:61:LEU:HB2	2.46	0.45
1:c:88:LEU:CD1	1:c:88:LEU:N	2.78	0.45
1:c:106:TYR:CD1	1:c:106:TYR:C	2.94	0.45
1:c:368:MET:O	1:c:370:ASP:N	2.49	0.45
1:c:423:PRO:C	1:c:427:LEU:HB2	2.41	0.45
1:c:483:ARG:NH1	1:c:489:MET:HE1	2.31	0.45
2:d:75:LEU:O	2:d:79:ILE:HG12	2.16	0.45
1:e:146:ASN:O	1:e:280:THR:CB	2.47	0.45
1:e:188:SER:C	1:e:190:GLU:N	2.73	0.45
1:e:196:LEU:CD1	1:e:228:LEU:HD22	2.46	0.45
1:e:304:TYR:CD1	1:e:304:TYR:N	2.81	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:e:357:LEU:HB3	1:e:366:ARG:NH1	2.31	0.45
1:e:372:LEU:HD11	1:e:422:ILE:CB	2.45	0.45
1:e:422:ILE:C	1:e:427:LEU:CD1	2.89	0.45
1:e:557:LYS:CE	1:e:558:TYR:N	2.80	0.45
1:e:561:LEU:O	1:e:564:ILE:HG12	2.16	0.45
2:f:93:ALA:O	2:f:97:ILE:HG12	2.16	0.45
1:A:381:ILE:N	1:A:420:ILE:O	2.48	0.45
1:A:483:ARG:NH1	1:A:489:MET:HE1	2.31	0.45
1:A:557:LYS:CE	1:A:558:TYR:N	2.80	0.45
2:B:75:LEU:O	2:B:79:ILE:HG12	2.16	0.45
2:B:93:ALA:O	2:B:97:ILE:HG12	2.16	0.45
1:C:166:LEU:CD2	1:C:167:SER:N	2.73	0.45
1:C:322:ARG:HH22	1:C:352:ILE:HG12	1.81	0.45
1:C:368:MET:O	1:C:370:ASP:N	2.49	0.45
1:C:990:UNK:C	1:C:992:UNK:N	2.76	0.45
1:E:129:GLN:CB	1:E:130:PRO:CD	2.84	0.45
1:E:235:LYS:N	1:E:236:PRO:HD2	2.32	0.45
1:E:368:MET:O	1:E:370:ASP:N	2.49	0.45
1:E:483:ARG:NH1	1:E:489:MET:HE1	2.31	0.45
1:E:557:LYS:CE	1:E:558:TYR:N	2.80	0.45
1:G:291:THR:O	1:G:292:LEU:C	2.58	0.45
1:G:835:UNK:CB	1:G:836:UNK:H2	2.28	0.45
2:H:93:ALA:O	2:H:97:ILE:HG12	2.16	0.45
1:I:158:THR:HG23	1:I:159:TRP:CD1	2.41	0.45
1:I:376:PRO:CG	1:I:470:HIS:CD2	2.99	0.45
1:I:425:ILE:O	1:I:429:LEU:HD12	2.16	0.45
1:I:483:ARG:NH1	1:I:489:MET:HE1	2.31	0.45
1:I:492:LEU:HD11	1:I:565:ALA:HB2	1.97	0.45
1:I:557:LYS:CE	1:I:558:TYR:N	2.80	0.45
2:J:10:MET:HB2	2:J:11:PRO:HD2	1.97	0.45
2:J:57:GLY:H	2:J:59:PRO:HD3	1.81	0.45
2:J:93:ALA:O	2:J:97:ILE:HG12	2.16	0.45
1:K:42:LYS:C	1:K:45:ILE:HG22	2.41	0.45
1:K:88:LEU:CA	1:K:91:PRO:HD2	2.39	0.45
1:K:183:LEU:HB3	1:K:186:CYS:CB	2.46	0.45
1:K:188:SER:C	1:K:190:GLU:N	2.73	0.45
1:K:251:LYS:CD	1:K:252:ALA:N	2.80	0.45
1:K:372:LEU:HD11	1:K:422:ILE:CB	2.45	0.45
1:K:435:ASN:HD22	1:K:435:ASN:HA	1.56	0.45
1:K:561:LEU:O	1:K:564:ILE:HG12	2.16	0.45
1:M:196:LEU:CD1	1:M:228:LEU:HD22	2.46	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:483:ARG:NH1	1:M:489:MET:HE1	2.31	0.45
1:M:557:LYS:CE	1:M:558:TYR:N	2.80	0.45
1:O:251:LYS:CD	1:O:252:ALA:N	2.80	0.45
1:O:420:ILE:HG21	1:O:422:ILE:HD11	1.98	0.45
1:O:422:ILE:CG2	1:O:427:LEU:HD12	2.46	0.45
1:O:617:UNK:HA	1:O:904:UNK:CB	2.46	0.45
2:P:85:THR:C	2:P:87:TYR:N	2.72	0.45
1:Q:46:ASP:CA	1:Q:49:ILE:HG22	2.41	0.45
1:Q:166:LEU:CD2	1:Q:167:SER:HA	2.42	0.45
1:Q:338:TRP:HA	1:Q:338:TRP:HE3	1.78	0.45
1:Q:357:LEU:HB3	1:Q:366:ARG:NH1	2.31	0.45
1:Q:518:LEU:CD2	1:Q:646:UNK:HA	2.42	0.45
1:S:51:SER:O	1:S:51:SER:OG	2.26	0.45
1:S:287:HIS:ND1	1:S:288:HIS:N	2.59	0.45
1:S:486:LEU:O	1:S:488:ARG:HG3	2.16	0.45
1:S:1152:UNK:HA	1:S:1164:UNK:HA	1.98	0.45
1:U:368:MET:O	1:U:370:ASP:N	2.49	0.45
1:U:425:ILE:HD12	1:U:425:ILE:C	2.38	0.45
1:U:492:LEU:CD1	1:U:561:LEU:HG	2.44	0.45
1:U:557:LYS:CE	1:U:558:TYR:N	2.80	0.45
1:W:242:LEU:CD2	1:W:262:ILE:HG22	2.46	0.45
1:W:322:ARG:HH22	1:W:352:ILE:HG12	1.81	0.45
1:W:368:MET:O	1:W:370:ASP:N	2.49	0.45
1:W:425:ILE:O	1:W:429:LEU:HD12	2.16	0.45
1:W:488:ARG:CG	1:W:491:PHE:HB2	2.46	0.45
1:W:617:UNK:HA	1:W:904:UNK:CB	2.46	0.45
1:Y:208:THR:O	1:Y:208:THR:OG1	2.26	0.45
1:Y:251:LYS:CD	1:Y:252:ALA:N	2.80	0.45
1:Y:338:TRP:HA	1:Y:338:TRP:HE3	1.78	0.45
1:Y:425:ILE:O	1:Y:429:LEU:HD12	2.16	0.45
2:Z:81:GLN:CA	2:Z:81:GLN:NE2	2.73	0.45
1:a:251:LYS:CD	1:a:252:ALA:N	2.80	0.45
1:a:486:LEU:O	1:a:488:ARG:HG3	2.16	0.45
1:a:488:ARG:CG	1:a:491:PHE:HB2	2.46	0.45
1:c:135:ARG:O	1:c:135:ARG:HG2	2.15	0.45
1:c:223:SER:O	1:c:224:ILE:C	2.58	0.45
1:c:302:LEU:O	1:c:303:LYS:C	2.58	0.45
1:c:557:LYS:CE	1:c:558:TYR:N	2.80	0.45
1:c:617:UNK:HA	1:c:904:UNK:CB	2.46	0.45
1:e:40:LEU:CD2	1:e:40:LEU:N	2.73	0.45
1:e:42:LYS:C	1:e:45:ILE:HG22	2.41	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:e:183:LEU:HB3	1:e:186:CYS:CB	2.46	0.45
1:e:251:LYS:CD	1:e:252:ALA:N	2.80	0.45
1:e:465:GLN:HE21	1:e:502:ARG:NH1	2.13	0.45
1:A:290:MET:H	1:A:290:MET:HG2	1.50	0.45
1:A:376:PRO:CG	1:A:470:HIS:CD2	2.99	0.45
1:A:377:PRO:HB3	1:A:428:GLU:CG	2.43	0.45
1:A:425:ILE:O	1:A:429:LEU:HD12	2.16	0.45
1:A:435:ASN:HD22	1:A:435:ASN:HA	1.56	0.45
1:A:561:LEU:O	1:A:564:ILE:HG12	2.16	0.45
2:B:10:MET:HB2	2:B:11:PRO:HD2	1.97	0.45
2:B:57:GLY:H	2:B:59:PRO:HD3	1.81	0.45
1:C:125:VAL:HG21	1:C:300:LEU:HA	1.97	0.45
1:C:274:PHE:CG	1:C:275:LEU:CD1	2.99	0.45
1:C:376:PRO:CG	1:C:470:HIS:CD2	2.99	0.45
1:C:425:ILE:O	1:C:429:LEU:HD12	2.16	0.45
1:C:488:ARG:CG	1:C:491:PHE:HB2	2.46	0.45
1:C:617:UNK:HA	1:C:904:UNK:CB	2.46	0.45
1:C:732:UNK:C	1:C:734:UNK:N	2.78	0.45
1:E:65:LEU:CD2	1:E:76:PHE:CD2	3.00	0.45
1:E:237:TYR:CD1	1:E:237:TYR:N	2.80	0.45
1:E:492:LEU:CD1	1:E:561:LEU:HG	2.44	0.45
1:G:134:LEU:HA	1:G:283:ILE:HD13	1.97	0.45
1:G:183:LEU:CB	1:G:186:CYS:SG	3.04	0.45
1:G:243:VAL:CG1	1:G:263:LEU:CG	2.73	0.45
1:G:287:HIS:ND1	1:G:288:HIS:N	2.59	0.45
1:G:1152:UNK:HA	1:G:1164:UNK:HA	1.98	0.45
1:K:304:TYR:CD1	1:K:304:TYR:N	2.81	0.45
1:K:368:MET:O	1:K:370:ASP:N	2.49	0.45
1:K:406:HIS:C	1:K:406:HIS:ND1	2.73	0.45
1:K:419:THR:OG1	1:K:420:ILE:N	2.46	0.45
1:K:422:ILE:C	1:K:427:LEU:CD1	2.89	0.45
1:K:465:GLN:HE21	1:K:502:ARG:NH1	2.13	0.45
1:K:520:GLN:NE2	1:K:546:LEU:HD11	2.32	0.45
1:M:114:TYR:C	1:M:117:ASN:O	2.53	0.45
1:M:251:LYS:CD	1:M:252:ALA:N	2.80	0.45
1:O:269:LYS:HA	1:O:272:THR:HG22	1.98	0.45
1:O:274:PHE:CG	1:O:275:LEU:CD1	2.99	0.45
1:O:486:LEU:O	1:O:488:ARG:HG3	2.16	0.45
1:Q:110:ARG:HH11	1:Q:110:ARG:HG3	1.80	0.45
1:Q:279:THR:HG23	1:Q:280:THR:HG22	1.97	0.45
1:Q:422:ILE:CG2	1:Q:427:LEU:HD12	2.46	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Q:425:ILE:O	1:Q:429:LEU:HD12	2.16	0.45
1:Q:492:LEU:HD11	1:Q:565:ALA:HB2	1.97	0.45
1:Q:520:GLN:NE2	1:Q:546:LEU:HD11	2.32	0.45
1:S:835:UNK:CB	1:S:836:UNK:H2	2.28	0.45
1:U:65:LEU:CD2	1:U:76:PHE:CD2	3.00	0.45
1:U:127:ARG:NH2	1:U:285:LEU:HD21	2.31	0.45
1:U:166:LEU:CD2	1:U:167:SER:N	2.73	0.45
1:U:235:LYS:N	1:U:236:PRO:HD2	2.32	0.45
2:V:75:LEU:O	2:V:79:ILE:HG12	2.16	0.45
1:W:84:ASN:OD1	1:W:85:TYR:CE2	2.66	0.45
1:W:166:LEU:CD2	1:W:167:SER:N	2.73	0.45
1:W:274:PHE:CG	1:W:275:LEU:CD1	2.99	0.45
1:W:279:THR:HG23	1:W:280:THR:HG22	1.97	0.45
1:W:288:HIS:HD2	1:W:288:HIS:H	1.57	0.45
1:W:732:UNK:C	1:W:734:UNK:N	2.78	0.45
2:X:75:LEU:O	2:X:79:ILE:HG12	2.16	0.45
1:Y:132:LEU:HD12	1:Y:132:LEU:HA	1.80	0.45
1:Y:357:LEU:HB3	1:Y:366:ARG:NH1	2.31	0.45
1:Y:372:LEU:HD11	1:Y:422:ILE:CB	2.45	0.45
1:Y:465:GLN:HE21	1:Y:502:ARG:NH1	2.13	0.45
1:Y:492:LEU:HD11	1:Y:565:ALA:HB2	1.97	0.45
1:Y:519:GLN:HG3	1:Y:523:PHE:CZ	2.50	0.45
1:Y:520:GLN:NE2	1:Y:546:LEU:HD11	2.32	0.45
1:a:274:PHE:CG	1:a:275:LEU:CD1	2.99	0.45
1:a:291:THR:O	1:a:292:LEU:C	2.58	0.45
1:a:488:ARG:NH1	1:a:488:ARG:HG3	2.29	0.45
1:c:127:ARG:NH2	1:c:285:LEU:HD21	2.31	0.45
1:c:183:LEU:HB3	1:c:186:CYS:CB	2.46	0.45
1:c:196:LEU:CD1	1:c:228:LEU:HD22	2.46	0.45
1:c:251:LYS:CD	1:c:252:ALA:N	2.80	0.45
1:e:51:SER:O	1:e:51:SER:OG	2.26	0.45
1:e:368:MET:O	1:e:370:ASP:N	2.49	0.45
1:e:520:GLN:NE2	1:e:546:LEU:HD11	2.32	0.45
1:A:204:ASP:CG	1:A:205:PRO:HD2	2.42	0.45
1:A:269:LYS:HA	1:A:272:THR:HG22	1.98	0.45
1:A:422:ILE:CG2	1:A:427:LEU:HD12	2.46	0.45
1:C:46:ASP:CA	1:C:49:ILE:HG22	2.41	0.45
1:C:106:TYR:C	1:C:106:TYR:CD1	2.94	0.45
1:C:279:THR:HG23	1:C:280:THR:HG22	1.97	0.45
1:C:288:HIS:HD2	1:C:288:HIS:H	1.57	0.45
1:C:290:MET:HB3	1:C:290:MET:HE2	1.81	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:D:75:LEU:O	2:D:79:ILE:HG12	2.16	0.45
1:E:369:PHE:CD1	1:E:411:VAL:CG2	3.00	0.45
2:F:75:LEU:O	2:F:79:ILE:HG12	2.16	0.45
1:G:65:LEU:CD2	1:G:76:PHE:CD2	3.00	0.45
1:G:251:LYS:CD	1:G:252:ALA:N	2.80	0.45
1:G:435:ASN:HD22	1:G:435:ASN:HA	1.56	0.45
1:G:488:ARG:CG	1:G:491:PHE:HB2	2.46	0.45
1:I:204:ASP:CG	1:I:205:PRO:HD2	2.42	0.45
1:I:233:LYS:HD2	1:I:233:LYS:H	1.81	0.45
1:I:561:LEU:O	1:I:564:ILE:HG12	2.16	0.45
1:K:233:LYS:HD2	1:K:233:LYS:H	1.81	0.45
1:K:242:LEU:HD21	1:K:244:LEU:HD13	1.85	0.45
1:M:135:ARG:O	1:M:135:ARG:HG2	2.15	0.45
1:M:183:LEU:HB3	1:M:186:CYS:CB	2.46	0.45
1:M:184:LYS:HB2	1:M:184:LYS:HZ2	1.81	0.45
1:M:223:SER:O	1:M:224:ILE:C	2.58	0.45
1:M:235:LYS:N	1:M:236:PRO:HD2	2.32	0.45
1:M:302:LEU:O	1:M:303:LYS:C	2.58	0.45
1:O:237:TYR:CD1	1:O:237:TYR:N	2.80	0.45
1:O:305:LEU:HD22	1:O:305:LEU:HA	1.71	0.45
1:O:369:PHE:CD1	1:O:411:VAL:CG2	3.00	0.45
2:P:57:GLY:H	2:P:59:PRO:HD3	1.81	0.45
1:Q:125:VAL:HG21	1:Q:300:LEU:HA	1.97	0.45
1:Q:372:LEU:HD11	1:Q:422:ILE:CB	2.45	0.45
1:Q:519:GLN:HG3	1:Q:523:PHE:CZ	2.50	0.45
1:S:65:LEU:CD2	1:S:76:PHE:CD2	3.00	0.45
1:S:86:LYS:HD2	1:S:89:MET:HE2	1.95	0.45
1:S:134:LEU:HA	1:S:283:ILE:HD13	1.97	0.45
1:S:183:LEU:CB	1:S:186:CYS:SG	3.04	0.45
1:S:251:LYS:CD	1:S:252:ALA:N	2.80	0.45
1:U:86:LYS:HD2	1:U:89:MET:HE2	1.95	0.45
1:U:110:ARG:HH11	1:U:110:ARG:HG3	1.80	0.45
1:U:253:TRP:C	1:U:255:ALA:N	2.67	0.45
1:U:369:PHE:CD1	1:U:411:VAL:CG2	3.00	0.45
1:U:406:HIS:ND1	1:U:406:HIS:C	2.73	0.45
1:W:65:LEU:CD2	1:W:76:PHE:CD2	3.00	0.45
1:W:71:GLU:O	1:W:75:LYS:HG3	2.15	0.45
1:W:125:VAL:HG21	1:W:300:LEU:HA	1.97	0.45
1:W:183:LEU:HB3	1:W:186:CYS:CB	2.46	0.45
1:W:376:PRO:CG	1:W:470:HIS:CD2	2.99	0.45
1:W:388:LEU:N	1:W:388:LEU:CD2	2.73	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Y:125:VAL:HG21	1:Y:300:LEU:HA	1.97	0.45
1:Y:158:THR:HG23	1:Y:159:TRP:CD1	2.41	0.45
1:Y:279:THR:HG23	1:Y:280:THR:HG22	1.97	0.45
1:Y:388:LEU:H	1:Y:388:LEU:CD2	2.28	0.45
1:Y:464:ASP:OD1	1:Y:501:ILE:CD1	2.49	0.45
1:a:106:TYR:CD1	1:a:106:TYR:C	2.94	0.45
1:a:376:PRO:CG	1:a:470:HIS:CD2	2.99	0.45
1:a:424:SER:O	1:a:428:GLU:N	2.49	0.45
2:b:57:GLY:H	2:b:59:PRO:HD3	1.81	0.45
2:b:85:THR:C	2:b:87:TYR:N	2.72	0.45
1:c:235:LYS:N	1:c:236:PRO:HD2	2.32	0.45
1:c:274:PHE:CG	1:c:275:LEU:CD1	2.99	0.45
1:e:233:LYS:HD2	1:e:233:LYS:H	1.81	0.45
1:e:406:HIS:C	1:e:406:HIS:ND1	2.73	0.45
1:A:134:LEU:HA	1:A:283:ILE:HD13	1.97	0.45
1:A:138:LEU:HD11	1:A:263:LEU:HD22	1.98	0.45
1:A:233:LYS:HD2	1:A:233:LYS:H	1.81	0.45
1:C:65:LEU:CD2	1:C:76:PHE:CD2	3.00	0.45
1:C:138:LEU:HD11	1:C:263:LEU:HD22	1.98	0.45
1:C:204:ASP:CG	1:C:205:PRO:HD2	2.42	0.45
1:E:183:LEU:HB3	1:E:186:CYS:CB	2.46	0.45
1:E:269:LYS:HA	1:E:272:THR:HG22	1.98	0.45
1:E:274:PHE:CG	1:E:275:LEU:CD1	2.99	0.45
1:E:377:PRO:HB3	1:E:428:GLU:CG	2.43	0.45
1:E:406:HIS:ND1	1:E:406:HIS:C	2.73	0.45
1:E:423:PRO:C	1:E:427:LEU:HB2	2.41	0.45
1:E:425:ILE:HD12	1:E:425:ILE:C	2.38	0.45
1:G:368:MET:O	1:G:370:ASP:N	2.49	0.45
1:I:138:LEU:HD11	1:I:263:LEU:HD22	1.98	0.45
1:I:269:LYS:HA	1:I:272:THR:HG22	1.98	0.45
1:I:274:PHE:CG	1:I:275:LEU:CD1	2.99	0.45
1:I:322:ARG:HH22	1:I:352:ILE:HG12	1.81	0.45
1:I:377:PRO:HB3	1:I:428:GLU:CG	2.43	0.45
1:I:422:ILE:CG2	1:I:427:LEU:HD12	2.46	0.45
1:K:302:LEU:CD1	1:K:311:ASP:CB	2.95	0.45
1:M:274:PHE:CG	1:M:275:LEU:CD1	2.99	0.45
1:M:287:HIS:ND1	1:M:288:HIS:N	2.59	0.45
2:N:81:GLN:CA	2:N:81:GLN:NE2	2.73	0.45
2:N:93:ALA:O	2:N:97:ILE:HG12	2.16	0.45
1:O:106:TYR:CD1	1:O:106:TYR:C	2.94	0.45
1:O:166:LEU:C	1:O:166:LEU:CD2	2.86	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:O:291:THR:O	1:O:292:LEU:C	2.58	0.45
1:O:354:GLU:C	1:O:356:SER:N	2.73	0.45
1:O:376:PRO:CG	1:O:470:HIS:CD2	2.99	0.45
2:P:75:LEU:O	2:P:79:ILE:HG12	2.16	0.45
1:Q:132:LEU:HD12	1:Q:132:LEU:HA	1.80	0.45
1:Q:186:CYS:CA	1:Q:191:THR:HG21	2.40	0.45
1:Q:208:THR:O	1:Q:208:THR:OG1	2.26	0.45
1:Q:368:MET:O	1:Q:370:ASP:N	2.49	0.45
2:R:22:LEU:HD11	2:R:77:LEU:CD1	2.34	0.45
1:S:488:ARG:CG	1:S:491:PHE:HB2	2.46	0.45
2:T:22:LEU:HD11	2:T:77:LEU:CD1	2.34	0.45
1:U:134:LEU:HA	1:U:283:ILE:HD13	1.97	0.45
1:U:196:LEU:CD1	1:U:228:LEU:HD22	2.46	0.45
1:U:274:PHE:CG	1:U:275:LEU:CD1	2.99	0.45
1:U:377:PRO:HB3	1:U:428:GLU:CG	2.43	0.45
1:U:423:PRO:C	1:U:427:LEU:HB2	2.41	0.45
1:U:488:ARG:CG	1:U:491:PHE:HB2	2.46	0.45
1:W:29:CYS:HA	1:W:32:VAL:CG2	2.41	0.45
1:W:106:TYR:C	1:W:106:TYR:CD1	2.94	0.45
1:W:138:LEU:HD11	1:W:263:LEU:HD22	1.98	0.45
1:W:204:ASP:CG	1:W:205:PRO:HD2	2.42	0.45
1:W:269:LYS:HA	1:W:272:THR:HG22	1.98	0.45
1:W:423:PRO:C	1:W:427:LEU:HB2	2.41	0.45
1:Y:368:MET:O	1:Y:370:ASP:N	2.49	0.45
2:Z:75:LEU:O	2:Z:79:ILE:HG12	2.16	0.45
1:a:166:LEU:C	1:a:166:LEU:CD2	2.86	0.45
1:a:269:LYS:HA	1:a:272:THR:HG22	1.98	0.45
1:a:305:LEU:HA	1:a:305:LEU:HD22	1.71	0.45
1:a:354:GLU:C	1:a:356:SER:N	2.73	0.45
1:a:369:PHE:CD1	1:a:411:VAL:CG2	3.00	0.45
2:b:20:LYS:H	2:b:20:LYS:HG3	1.63	0.45
2:b:49:LEU:HD22	2:b:49:LEU:HA	1.69	0.45
2:b:75:LEU:O	2:b:79:ILE:HG12	2.16	0.45
1:c:287:HIS:ND1	1:c:288:HIS:N	2.59	0.45
1:c:399:MET:HE2	1:c:399:MET:HB2	1.66	0.45
1:e:242:LEU:CD2	1:e:262:ILE:HG22	2.46	0.45
1:e:302:LEU:CD1	1:e:311:ASP:CB	2.95	0.45
1:A:47:HIS:CA	1:A:50:MET:HB2	2.47	0.45
1:A:224:ILE:HD12	1:A:224:ILE:O	2.17	0.45
1:A:274:PHE:CG	1:A:275:LEU:CD1	2.99	0.45
1:A:322:ARG:HH22	1:A:352:ILE:HG12	1.81	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:518:LEU:CD2	1:A:646:UNK:HA	2.42	0.45
1:C:42:LYS:C	1:C:45:ILE:HG22	2.41	0.45
1:C:52:LYS:CD	1:C:53:ASP:CG	2.85	0.45
1:C:71:GLU:O	1:C:75:LYS:HG3	2.15	0.45
1:C:183:LEU:HB3	1:C:186:CYS:CB	2.46	0.45
1:C:269:LYS:HA	1:C:272:THR:HG22	1.98	0.45
1:C:369:PHE:CD1	1:C:411:VAL:CG2	3.00	0.45
1:C:388:LEU:N	1:C:388:LEU:CD2	2.73	0.45
1:C:423:PRO:C	1:C:427:LEU:HB2	2.41	0.45
1:E:110:ARG:HH11	1:E:110:ARG:HG3	1.80	0.45
1:E:134:LEU:HA	1:E:283:ILE:HD13	1.97	0.45
1:E:166:LEU:CD2	1:E:167:SER:N	2.73	0.45
1:E:196:LEU:CD1	1:E:228:LEU:HD22	2.46	0.45
1:E:381:ILE:N	1:E:420:ILE:O	2.48	0.45
1:E:488:ARG:CG	1:E:491:PHE:HB2	2.46	0.45
1:G:326:ILE:HD11	1:G:348:LYS:HB3	1.98	0.45
1:G:369:PHE:CD1	1:G:411:VAL:CG2	3.00	0.45
1:I:47:HIS:CA	1:I:50:MET:HB2	2.47	0.45
1:I:134:LEU:HA	1:I:283:ILE:HD13	1.97	0.45
1:I:224:ILE:HD12	1:I:224:ILE:O	2.17	0.45
1:K:184:LYS:HA	1:K:184:LYS:CE	2.45	0.45
1:K:242:LEU:CD2	1:K:262:ILE:HG22	2.46	0.45
1:M:165:CYS:HG	1:M:180:TRP:HZ2	1.54	0.45
1:M:184:LYS:HA	1:M:184:LYS:CE	2.45	0.45
1:M:204:ASP:CG	1:M:205:PRO:HD2	2.42	0.45
1:M:224:ILE:HD12	1:M:224:ILE:O	2.17	0.45
1:M:369:PHE:CD1	1:M:411:VAL:CG2	3.00	0.45
1:O:19:PHE:HE2	1:O:92:ILE:HA	1.82	0.45
1:O:88:LEU:CD1	1:O:88:LEU:N	2.78	0.45
1:O:196:LEU:CD1	1:O:228:LEU:HD22	2.46	0.45
1:O:423:PRO:C	1:O:427:LEU:HB2	2.41	0.45
1:O:424:SER:O	1:O:428:GLU:N	2.49	0.45
1:O:732:UNK:C	1:O:734:UNK:N	2.78	0.45
2:P:31:TYR:HD2	2:P:68:ARG:HE	1.63	0.45
1:Q:65:LEU:CD2	1:Q:76:PHE:CD2	3.00	0.45
1:Q:86:LYS:HD2	1:Q:86:LYS:HA	1.53	0.45
1:Q:204:ASP:CG	1:Q:205:PRO:HD2	2.42	0.45
1:Q:302:LEU:CD1	1:Q:311:ASP:CB	2.95	0.45
1:Q:369:PHE:CD1	1:Q:411:VAL:CG2	3.00	0.45
1:Q:388:LEU:H	1:Q:388:LEU:CD2	2.28	0.45
1:Q:464:ASP:OD1	1:Q:501:ILE:CD1	2.49	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:R:75:LEU:O	2:R:79:ILE:HG12	2.16	0.45
1:S:42:LYS:C	1:S:45:ILE:HG22	2.41	0.45
1:S:196:LEU:CD1	1:S:228:LEU:HD22	2.46	0.45
1:S:242:LEU:CD2	1:S:262:ILE:HG22	2.46	0.45
1:S:322:ARG:HH22	1:S:352:ILE:HG12	1.81	0.45
1:S:368:MET:O	1:S:370:ASP:N	2.49	0.45
1:S:369:PHE:CD1	1:S:411:VAL:CG2	3.00	0.45
1:S:483:ARG:NH1	1:S:489:MET:HE1	2.31	0.45
1:S:562:LEU:HD11	1:S:580:GLN:HG3	1.99	0.45
1:U:183:LEU:HB3	1:U:186:CYS:CB	2.46	0.45
1:U:204:ASP:CG	1:U:205:PRO:HD2	2.42	0.45
1:U:232:LEU:O	1:U:234:SER:N	2.47	0.45
1:U:269:LYS:HA	1:U:272:THR:HG22	1.98	0.45
1:W:46:ASP:CA	1:W:49:ILE:HG22	2.41	0.45
1:W:52:LYS:CD	1:W:53:ASP:CG	2.85	0.45
1:W:127:ARG:NH2	1:W:285:LEU:HD21	2.31	0.45
1:W:203:ILE:HG21	1:W:231:LEU:CD2	2.46	0.45
1:W:369:PHE:CD1	1:W:411:VAL:CG2	3.00	0.45
1:W:464:ASP:OD1	1:W:501:ILE:CD1	2.49	0.45
1:Y:65:LEU:CD2	1:Y:76:PHE:CD2	3.00	0.45
1:Y:174:MET:HE3	1:Y:174:MET:HB2	1.76	0.45
1:Y:196:LEU:CD1	1:Y:228:LEU:HD22	2.46	0.45
1:Y:369:PHE:CD1	1:Y:411:VAL:CG2	3.00	0.45
1:Y:376:PRO:CG	1:Y:470:HIS:CD2	2.99	0.45
2:Z:93:ALA:O	2:Z:97:ILE:HG12	2.16	0.45
1:a:423:PRO:C	1:a:427:LEU:HB2	2.41	0.45
1:a:425:ILE:O	1:a:429:LEU:HD12	2.16	0.45
2:b:31:TYR:HD2	2:b:68:ARG:HE	1.63	0.45
1:c:114:TYR:C	1:c:117:ASN:O	2.53	0.45
1:c:204:ASP:CG	1:c:205:PRO:HD2	2.42	0.45
1:c:224:ILE:O	1:c:224:ILE:HD12	2.17	0.45
1:c:369:PHE:CD1	1:c:411:VAL:CG2	3.00	0.45
1:c:372:LEU:HD11	1:c:422:ILE:CB	2.45	0.45
2:d:93:ALA:O	2:d:97:ILE:HG12	2.16	0.45
1:e:388:LEU:N	1:e:388:LEU:CD2	2.73	0.45
1:e:419:THR:OG1	1:e:420:ILE:N	2.46	0.45
1:A:158:THR:HG23	1:A:159:TRP:CD1	2.41	0.45
1:A:233:LYS:H	1:A:233:LYS:HD3	1.78	0.45
1:A:617:UNK:HA	1:A:904:UNK:CB	2.46	0.45
1:C:127:ARG:NH2	1:C:285:LEU:HD21	2.31	0.45
1:C:146:ASN:O	1:C:280:THR:CB	2.47	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:203:ILE:HG21	1:C:231:LEU:CD2	2.46	0.45
1:C:410:LEU:CG	1:C:423:PRO:CD	2.47	0.45
1:C:460:PRO:HG3	1:C:462:TYR:CZ	2.50	0.45
1:C:557:LYS:CE	1:C:558:TYR:N	2.80	0.45
1:E:204:ASP:CG	1:E:205:PRO:HD2	2.42	0.45
1:E:224:ILE:HD12	1:E:224:ILE:O	2.17	0.45
1:E:410:LEU:CG	1:E:423:PRO:CD	2.47	0.45
1:G:42:LYS:C	1:G:45:ILE:HG22	2.41	0.45
1:G:196:LEU:CD1	1:G:228:LEU:HD22	2.46	0.45
1:G:242:LEU:CD2	1:G:262:ILE:HG22	2.46	0.45
1:G:253:TRP:O	1:G:255:ALA:N	2.50	0.45
1:G:483:ARG:NH1	1:G:489:MET:HE1	2.31	0.45
1:G:562:LEU:HD11	1:G:580:GLN:HG3	1.99	0.45
2:H:75:LEU:O	2:H:79:ILE:HG12	2.16	0.45
1:I:399:MET:HE2	1:I:399:MET:HB2	1.66	0.45
1:I:492:LEU:O	1:I:561:LEU:HD21	2.17	0.45
1:K:326:ILE:HD11	1:K:348:LYS:HB3	1.98	0.45
1:K:377:PRO:HB3	1:K:428:GLU:CG	2.43	0.45
1:K:492:LEU:O	1:K:561:LEU:HD21	2.17	0.45
1:M:19:PHE:HE2	1:M:92:ILE:HA	1.82	0.45
1:M:302:LEU:CD1	1:M:311:ASP:CB	2.95	0.45
1:M:305:LEU:HA	1:M:305:LEU:HD22	1.71	0.45
1:M:372:LEU:HD11	1:M:422:ILE:CB	2.45	0.45
1:O:65:LEU:CD2	1:O:76:PHE:CD2	3.00	0.45
1:O:425:ILE:O	1:O:429:LEU:HD12	2.16	0.45
1:O:557:LYS:CE	1:O:558:TYR:N	2.80	0.45
1:Q:19:PHE:HE2	1:Q:92:ILE:HA	1.82	0.45
1:Q:196:LEU:CD1	1:Q:228:LEU:HD22	2.46	0.45
1:Q:376:PRO:CG	1:Q:470:HIS:CD2	2.99	0.45
1:Q:423:PRO:C	1:Q:427:LEU:HB2	2.41	0.45
2:R:93:ALA:O	2:R:97:ILE:HG12	2.16	0.45
1:S:48:ILE:CG2	1:S:61:LEU:HB2	2.46	0.45
1:S:253:TRP:O	1:S:255:ALA:N	2.50	0.45
1:S:303:LYS:HD3	1:S:303:LYS:HA	1.70	0.45
1:S:326:ILE:HD11	1:S:348:LYS:HB3	1.98	0.45
1:S:990:UNK:C	1:S:992:UNK:N	2.76	0.45
2:T:75:LEU:O	2:T:79:ILE:HG12	2.16	0.45
1:U:224:ILE:HD12	1:U:224:ILE:O	2.17	0.45
1:U:233:LYS:CD	1:U:233:LYS:N	2.73	0.45
1:U:326:ILE:HD11	1:U:348:LYS:HB3	1.98	0.45
1:U:562:LEU:HD11	1:U:580:GLN:HG3	1.99	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:V:22:LEU:CD1	2:V:77:LEU:HD13	2.35	0.45
1:W:42:LYS:C	1:W:45:ILE:HG22	2.41	0.45
1:W:460:PRO:HG3	1:W:462:TYR:CZ	2.50	0.45
1:W:557:LYS:CE	1:W:558:TYR:N	2.80	0.45
1:Y:15:ILE:HD12	1:Y:96:GLN:CA	2.47	0.45
1:Y:86:LYS:HD2	1:Y:86:LYS:HA	1.53	0.45
1:Y:186:CYS:CA	1:Y:191:THR:HG21	2.40	0.45
1:Y:204:ASP:CG	1:Y:205:PRO:HD2	2.42	0.45
1:Y:302:LEU:CD1	1:Y:311:ASP:CB	2.95	0.45
1:a:15:ILE:HD12	1:a:96:GLN:CA	2.47	0.45
1:a:19:PHE:HE2	1:a:92:ILE:HA	1.82	0.45
1:a:65:LEU:CD2	1:a:76:PHE:CD2	3.00	0.45
1:a:360:LEU:HD12	1:a:365:TYR:CB	2.45	0.45
1:a:520:GLN:NE2	1:a:546:LEU:HD11	2.32	0.45
1:a:557:LYS:CE	1:a:558:TYR:N	2.80	0.45
1:c:184:LYS:HA	1:c:184:LYS:CE	2.45	0.45
1:c:231:LEU:O	1:c:234:SER:CB	2.59	0.45
1:c:242:LEU:CD2	1:c:262:ILE:HG22	2.46	0.45
1:c:302:LEU:CD1	1:c:311:ASP:CB	2.95	0.45
1:e:184:LYS:HA	1:e:184:LYS:CE	2.45	0.45
1:e:326:ILE:HD11	1:e:348:LYS:HB3	1.98	0.45
1:e:377:PRO:HB3	1:e:428:GLU:CG	2.43	0.45
1:e:492:LEU:O	1:e:561:LEU:HD21	2.17	0.45
1:A:242:LEU:CD2	1:A:262:ILE:HG22	2.46	0.45
1:A:302:LEU:CD1	1:A:311:ASP:CB	2.95	0.45
1:A:399:MET:HB2	1:A:399:MET:HE2	1.66	0.45
1:A:492:LEU:O	1:A:561:LEU:HD21	2.17	0.45
1:C:135:ARG:O	1:C:135:ARG:HG2	2.15	0.45
1:C:251:LYS:CD	1:C:252:ALA:N	2.80	0.45
1:C:365:TYR:HH	1:C:404:LYS:CG	2.10	0.45
1:C:562:LEU:HD11	1:C:580:GLN:HG3	1.99	0.45
1:E:232:LEU:O	1:E:234:SER:N	2.47	0.45
1:E:326:ILE:HD11	1:E:348:LYS:HB3	1.98	0.45
1:E:422:ILE:CG2	1:E:427:LEU:HD12	2.46	0.45
1:E:562:LEU:HD11	1:E:580:GLN:HG3	1.99	0.45
1:G:125:VAL:HG21	1:G:300:LEU:HA	1.97	0.45
1:G:322:ARG:HH22	1:G:352:ILE:HG12	1.81	0.45
1:G:492:LEU:O	1:G:561:LEU:HD21	2.17	0.45
1:G:520:GLN:NE2	1:G:546:LEU:HD11	2.32	0.45
1:G:561:LEU:O	1:G:564:ILE:HG12	2.16	0.45
1:I:183:LEU:HB3	1:I:186:CYS:CB	2.46	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:302:LEU:CD1	1:I:311:ASP:CB	2.95	0.45
1:I:518:LEU:CD2	1:I:646:UNK:HA	2.42	0.45
1:I:617:UNK:HA	1:I:904:UNK:CB	2.46	0.45
1:K:106:TYR:C	1:K:106:TYR:CD1	2.94	0.45
1:K:388:LEU:N	1:K:388:LEU:CD2	2.73	0.45
1:M:274:PHE:CD1	1:M:274:PHE:O	2.70	0.45
1:O:15:ILE:HD12	1:O:96:GLN:CA	2.47	0.45
1:O:193:LEU:O	1:O:197:GLN:N	2.50	0.45
1:O:302:LEU:CD1	1:O:311:ASP:CB	2.95	0.45
1:O:520:GLN:NE2	1:O:546:LEU:HD11	2.32	0.45
2:P:40:GLN:C	2:P:40:GLN:CD	2.85	0.45
2:P:77:LEU:CA	2:P:80:THR:HG22	2.47	0.45
1:Q:15:ILE:HD12	1:Q:96:GLN:CA	2.47	0.45
1:Q:253:TRP:O	1:Q:255:ALA:N	2.50	0.45
1:Q:326:ILE:HD11	1:Q:348:LYS:HB3	1.98	0.45
1:Q:488:ARG:NH1	1:Q:488:ARG:HG3	2.29	0.45
2:R:77:LEU:CA	2:R:80:THR:HG22	2.47	0.45
1:S:125:VAL:HG21	1:S:300:LEU:HA	1.97	0.45
1:S:521:LEU:CD1	1:S:543:LEU:HD21	2.47	0.45
1:U:290:MET:H	1:U:290:MET:HG2	1.50	0.45
1:U:422:ILE:CG2	1:U:427:LEU:HD12	2.46	0.45
1:W:15:ILE:HD12	1:W:96:GLN:CA	2.47	0.45
1:W:47:HIS:O	1:W:50:MET:HB3	2.12	0.45
1:W:251:LYS:CD	1:W:252:ALA:N	2.80	0.45
1:W:290:MET:HB3	1:W:290:MET:HE2	1.81	0.45
1:W:562:LEU:HD11	1:W:580:GLN:HG3	1.99	0.45
1:Y:253:TRP:O	1:Y:255:ALA:N	2.50	0.45
1:Y:326:ILE:HD11	1:Y:348:LYS:HB3	1.98	0.45
1:Y:327:ILE:HG21	1:Y:341:TRP:HZ3	1.77	0.45
1:Y:423:PRO:C	1:Y:427:LEU:HB2	2.41	0.45
1:Y:425:ILE:HD12	1:Y:425:ILE:C	2.38	0.45
2:Z:57:GLY:H	2:Z:59:PRO:HD3	1.81	0.45
1:a:88:LEU:CD1	1:a:88:LEU:N	2.78	0.45
1:a:184:LYS:HZ2	1:a:184:LYS:HB2	1.81	0.45
1:a:196:LEU:CD1	1:a:228:LEU:HD22	2.46	0.45
1:a:302:LEU:CD1	1:a:311:ASP:CB	2.95	0.45
1:a:732:UNK:C	1:a:734:UNK:N	2.78	0.45
2:b:40:GLN:C	2:b:40:GLN:CD	2.85	0.45
1:c:19:PHE:HE2	1:c:92:ILE:HA	1.82	0.45
1:c:166:LEU:CD2	1:c:167:SER:HA	2.42	0.45
1:c:274:PHE:O	1:c:274:PHE:CD1	2.70	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:c:305:LEU:HD22	1:c:305:LEU:HA	1.71	0.45
1:c:322:ARG:HH22	1:c:352:ILE:HG12	1.81	0.45
1:c:990:UNK:C	1:c:992:UNK:N	2.76	0.45
2:d:81:GLN:CA	2:d:81:GLN:NE2	2.73	0.45
1:e:106:TYR:CD1	1:e:106:TYR:C	2.94	0.45
1:e:435:ASN:HD22	1:e:435:ASN:HA	1.56	0.45
1:A:183:LEU:HB3	1:A:186:CYS:CB	2.46	0.45
1:A:562:LEU:HD11	1:A:580:GLN:HG3	1.99	0.45
2:B:40:GLN:C	2:B:40:GLN:CD	2.85	0.45
1:C:15:ILE:HD12	1:C:96:GLN:CA	2.47	0.45
1:C:302:LEU:CD1	1:C:311:ASP:CB	2.95	0.45
1:E:138:LEU:HD11	1:E:263:LEU:HD22	1.98	0.45
2:F:85:THR:C	2:F:87:TYR:N	2.72	0.45
1:G:48:ILE:CG2	1:G:61:LEU:HB2	2.46	0.45
1:G:138:LEU:HD11	1:G:263:LEU:HD22	1.98	0.45
1:G:521:LEU:CD1	1:G:543:LEU:HD21	2.47	0.45
1:I:242:LEU:CD2	1:I:262:ILE:HG22	2.46	0.45
1:I:406:HIS:ND1	1:I:406:HIS:C	2.73	0.45
1:I:424:SER:C	1:I:427:LEU:HB3	2.42	0.45
2:J:40:GLN:C	2:J:40:GLN:CD	2.85	0.45
1:K:232:LEU:O	1:K:234:SER:N	2.47	0.45
1:K:483:ARG:NH1	1:K:489:MET:HE1	2.31	0.45
1:M:242:LEU:CD2	1:M:262:ILE:HG22	2.46	0.45
1:M:365:TYR:CZ	1:M:404:LYS:HB3	2.52	0.45
1:M:520:GLN:NE2	1:M:546:LEU:HD11	2.32	0.45
1:M:1152:UNK:HA	1:M:1164:UNK:HA	1.98	0.45
1:O:135:ARG:O	1:O:135:ARG:HG2	2.15	0.45
1:O:204:ASP:CG	1:O:205:PRO:HD2	2.42	0.45
1:O:488:ARG:HH11	1:O:488:ARG:HG3	1.75	0.45
1:Q:420:ILE:HG21	1:Q:422:ILE:HD11	1.98	0.45
1:Q:424:SER:C	1:Q:427:LEU:HB3	2.42	0.45
1:Q:561:LEU:O	1:Q:564:ILE:HG12	2.16	0.45
1:Q:1152:UNK:HA	1:Q:1164:UNK:HA	1.98	0.45
2:R:31:TYR:HD2	2:R:68:ARG:HE	1.63	0.45
2:R:57:GLY:H	2:R:59:PRO:HD3	1.81	0.45
1:S:138:LEU:HD11	1:S:263:LEU:HD22	1.98	0.45
1:S:290:MET:H	1:S:290:MET:HG2	1.49	0.45
1:S:492:LEU:O	1:S:561:LEU:HD21	2.17	0.45
1:S:520:GLN:NE2	1:S:546:LEU:HD11	2.32	0.45
1:S:561:LEU:O	1:S:564:ILE:HG12	2.16	0.45
1:U:138:LEU:HD11	1:U:263:LEU:HD22	1.98	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:U:381:ILE:N	1:U:420:ILE:O	2.48	0.45
1:U:425:ILE:O	1:U:429:LEU:HD12	2.16	0.45
1:U:464:ASP:OD1	1:U:501:ILE:CD1	2.49	0.45
1:W:88:LEU:CD1	1:W:88:LEU:N	2.78	0.45
1:W:135:ARG:O	1:W:135:ARG:HG2	2.15	0.45
1:W:302:LEU:CD1	1:W:311:ASP:CB	2.95	0.45
1:W:381:ILE:HA	1:W:382:PRO:HD3	1.77	0.45
1:Y:19:PHE:HE2	1:Y:92:ILE:HA	1.82	0.45
1:Y:231:LEU:O	1:Y:234:SER:CB	2.59	0.45
2:Z:22:LEU:HD11	2:Z:77:LEU:CD1	2.34	0.45
2:Z:77:LEU:CA	2:Z:80:THR:HG22	2.47	0.45
1:a:193:LEU:O	1:a:197:GLN:N	2.50	0.45
1:a:322:ARG:HH22	1:a:352:ILE:HG12	1.81	0.45
1:a:492:LEU:HD23	1:a:492:LEU:HA	1.85	0.45
2:b:77:LEU:CA	2:b:80:THR:HG22	2.47	0.45
1:c:357:LEU:HB3	1:c:366:ARG:NH1	2.31	0.45
1:e:253:TRP:O	1:e:255:ALA:N	2.50	0.45
1:e:1152:UNK:HA	1:e:1164:UNK:HA	1.98	0.45
1:A:406:HIS:ND1	1:A:406:HIS:C	2.73	0.44
1:A:424:SER:C	1:A:427:LEU:HB3	2.42	0.44
2:B:22:LEU:CD1	2:B:77:LEU:HD13	2.35	0.44
1:C:19:PHE:HE2	1:C:92:ILE:HA	1.82	0.44
1:C:76:PHE:CD1	1:C:76:PHE:O	2.70	0.44
1:C:128:LEU:HD23	1:C:128:LEU:HA	1.86	0.44
1:C:326:ILE:HD11	1:C:348:LYS:HB3	1.98	0.44
1:C:464:ASP:OD1	1:C:501:ILE:CD1	2.49	0.44
2:D:77:LEU:CA	2:D:80:THR:HG22	2.47	0.44
1:E:233:LYS:CD	1:E:233:LYS:N	2.73	0.44
1:E:425:ILE:O	1:E:429:LEU:HD12	2.16	0.44
2:F:22:LEU:CD1	2:F:77:LEU:HD13	2.35	0.44
1:G:208:THR:O	1:G:208:THR:OG1	2.26	0.44
1:G:269:LYS:HA	1:G:272:THR:HG22	1.98	0.44
1:G:732:UNK:C	1:G:734:UNK:N	2.78	0.44
1:G:835:UNK:CB	1:G:836:UNK:N	2.81	0.44
1:I:233:LYS:H	1:I:233:LYS:HD3	1.78	0.44
1:I:368:MET:O	1:I:370:ASP:N	2.49	0.44
1:I:562:LEU:HD11	1:I:580:GLN:HG3	1.99	0.44
1:K:76:PHE:CD1	1:K:76:PHE:O	2.70	0.44
1:K:253:TRP:O	1:K:255:ALA:N	2.50	0.44
1:K:1152:UNK:HA	1:K:1164:UNK:HA	1.98	0.44
1:M:15:ILE:HD12	1:M:96:GLN:CA	2.47	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:47:HIS:CA	1:M:50:MET:HB2	2.47	0.44
1:M:166:LEU:CD2	1:M:167:SER:HA	2.42	0.44
1:M:186:CYS:CA	1:M:191:THR:HG21	2.40	0.44
1:M:322:ARG:HH22	1:M:352:ILE:HG12	1.81	0.44
1:M:357:LEU:HB3	1:M:366:ARG:NH1	2.31	0.44
1:M:492:LEU:O	1:M:561:LEU:HD21	2.17	0.44
1:O:274:PHE:CD1	1:O:274:PHE:O	2.70	0.44
1:O:357:LEU:HB3	1:O:366:ARG:NH1	2.31	0.44
1:O:492:LEU:O	1:O:561:LEU:HD21	2.17	0.44
2:P:20:LYS:H	2:P:20:LYS:HG3	1.63	0.44
1:Q:106:TYR:C	1:Q:106:TYR:CD1	2.94	0.44
1:Q:146:ASN:O	1:Q:280:THR:CB	2.47	0.44
1:Q:557:LYS:CE	1:Q:558:TYR:N	2.80	0.44
1:S:19:PHE:CZ	1:S:92:ILE:HD13	2.28	0.44
1:S:204:ASP:CG	1:S:205:PRO:HD2	2.42	0.44
1:S:224:ILE:O	1:S:224:ILE:HD12	2.17	0.44
1:S:435:ASN:HD22	1:S:435:ASN:HA	1.56	0.44
1:S:464:ASP:OD1	1:S:501:ILE:CD1	2.49	0.44
1:S:835:UNK:CB	1:S:836:UNK:N	2.81	0.44
1:U:231:LEU:O	1:U:234:SER:CB	2.59	0.44
1:U:520:GLN:NE2	1:U:546:LEU:HD11	2.32	0.44
1:W:76:PHE:CD1	1:W:76:PHE:O	2.70	0.44
1:W:146:ASN:O	1:W:280:THR:CB	2.47	0.44
1:W:365:TYR:HH	1:W:404:LYS:CG	2.10	0.44
1:Y:420:ILE:HG21	1:Y:422:ILE:HD11	1.98	0.44
1:Y:424:SER:C	1:Y:427:LEU:HB3	2.42	0.44
1:Y:557:LYS:CE	1:Y:558:TYR:N	2.80	0.44
1:Y:561:LEU:O	1:Y:564:ILE:HG12	2.16	0.44
1:Y:1152:UNK:HA	1:Y:1164:UNK:HA	1.98	0.44
2:Z:31:TYR:HD2	2:Z:68:ARG:HE	1.63	0.44
1:a:92:ILE:C	1:a:94:THR:N	2.70	0.44
1:a:135:ARG:O	1:a:135:ARG:HG2	2.15	0.44
1:a:253:TRP:O	1:a:255:ALA:N	2.50	0.44
1:a:274:PHE:CD1	1:a:274:PHE:O	2.70	0.44
1:a:492:LEU:O	1:a:561:LEU:HD21	2.17	0.44
1:c:15:ILE:HD12	1:c:96:GLN:CA	2.47	0.44
1:c:92:ILE:C	1:c:94:THR:N	2.70	0.44
1:c:365:TYR:CZ	1:c:404:LYS:HB3	2.52	0.44
1:c:420:ILE:HG21	1:c:422:ILE:HD11	1.98	0.44
1:c:492:LEU:O	1:c:561:LEU:HD21	2.17	0.44
1:c:520:GLN:NE2	1:c:546:LEU:HD11	2.32	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:c:1152:UNK:HA	1:c:1164:UNK:HA	1.98	0.44
1:e:76:PHE:CD1	1:e:76:PHE:O	2.70	0.44
1:e:242:LEU:HD21	1:e:244:LEU:HD13	1.85	0.44
1:e:322:ARG:HH22	1:e:352:ILE:HG12	1.81	0.44
1:e:483:ARG:NH1	1:e:489:MET:HE1	2.31	0.44
1:A:65:LEU:CD2	1:A:76:PHE:CD2	3.00	0.44
1:A:368:MET:O	1:A:370:ASP:N	2.49	0.44
1:A:521:LEU:CD1	1:A:543:LEU:HD21	2.47	0.44
1:C:47:HIS:O	1:C:50:MET:HB3	2.12	0.44
1:C:88:LEU:CD1	1:C:88:LEU:N	2.78	0.44
1:C:753:UNK:CB	1:C:811:UNK:HA	2.48	0.44
1:E:15:ILE:HD12	1:E:96:GLN:CA	2.47	0.44
1:E:47:HIS:CA	1:E:50:MET:HB2	2.47	0.44
1:E:76:PHE:CD1	1:E:76:PHE:O	2.70	0.44
1:E:354:GLU:C	1:E:356:SER:N	2.73	0.44
1:E:492:LEU:O	1:E:561:LEU:HD21	2.17	0.44
1:E:520:GLN:NE2	1:E:546:LEU:HD11	2.32	0.44
1:G:224:ILE:O	1:G:224:ILE:HD12	2.17	0.44
1:I:65:LEU:CD2	1:I:76:PHE:CD2	3.00	0.44
1:I:208:THR:O	1:I:208:THR:OG1	2.26	0.44
1:I:521:LEU:CD1	1:I:543:LEU:HD21	2.47	0.44
2:J:20:LYS:H	2:J:20:LYS:HG3	1.62	0.44
1:K:835:UNK:CB	1:K:836:UNK:N	2.81	0.44
1:M:147:VAL:O	1:M:263:LEU:HB2	2.18	0.44
1:M:231:LEU:O	1:M:234:SER:CB	2.59	0.44
1:M:990:UNK:C	1:M:992:UNK:N	2.76	0.44
2:N:40:GLN:C	2:N:40:GLN:CD	2.85	0.44
2:N:77:LEU:CA	2:N:80:THR:HG22	2.47	0.44
1:O:322:ARG:HH22	1:O:352:ILE:HG12	1.81	0.44
1:Q:135:ARG:O	1:Q:135:ARG:HG2	2.15	0.44
1:Q:425:ILE:HD12	1:Q:425:ILE:C	2.38	0.44
1:Q:753:UNK:CB	1:Q:811:UNK:HA	2.48	0.44
1:S:269:LYS:HA	1:S:272:THR:HG22	1.98	0.44
1:S:423:PRO:C	1:S:427:LEU:HB2	2.41	0.44
1:S:732:UNK:C	1:S:734:UNK:N	2.78	0.44
1:U:47:HIS:CA	1:U:50:MET:HB2	2.47	0.44
1:U:354:GLU:C	1:U:356:SER:N	2.73	0.44
1:W:19:PHE:HE2	1:W:92:ILE:HA	1.82	0.44
1:W:132:LEU:HD12	1:W:132:LEU:HA	1.80	0.44
1:W:326:ILE:HD11	1:W:348:LYS:HB3	1.98	0.44
1:W:753:UNK:CB	1:W:811:UNK:HA	2.48	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:X:77:LEU:CA	2:X:80:THR:HG22	2.47	0.44
1:Y:106:TYR:CD1	1:Y:106:TYR:C	2.94	0.44
1:Y:377:PRO:HB3	1:Y:428:GLU:CG	2.43	0.44
1:Y:488:ARG:NH1	1:Y:488:ARG:HG3	2.29	0.44
1:a:204:ASP:CG	1:a:205:PRO:HD2	2.42	0.44
1:c:47:HIS:CA	1:c:50:MET:HB2	2.47	0.44
1:c:147:VAL:O	1:c:263:LEU:HB2	2.18	0.44
1:c:486:LEU:O	1:c:488:ARG:HG3	2.16	0.44
1:c:732:UNK:C	1:c:734:UNK:N	2.78	0.44
2:d:40:GLN:C	2:d:40:GLN:CD	2.85	0.44
1:e:365:TYR:CZ	1:e:404:LYS:HB3	2.52	0.44
1:e:835:UNK:CB	1:e:836:UNK:N	2.81	0.44
1:A:76:PHE:CD1	1:A:76:PHE:O	2.70	0.44
1:A:520:GLN:NE2	1:A:546:LEU:HD11	2.32	0.44
1:C:229:ARG:O	1:C:233:LYS:HD3	2.14	0.44
1:C:424:SER:C	1:C:427:LEU:HB3	2.42	0.44
1:C:520:GLN:NE2	1:C:546:LEU:HD11	2.32	0.44
1:C:521:LEU:CD1	1:C:543:LEU:HD21	2.47	0.44
1:E:125:VAL:HG21	1:E:300:LEU:HA	1.97	0.44
1:E:1098:UNK:C	1:E:1100:UNK:N	2.80	0.44
1:G:204:ASP:CG	1:G:205:PRO:HD2	2.42	0.44
1:G:423:PRO:C	1:G:427:LEU:HB2	2.41	0.44
1:I:76:PHE:CD1	1:I:76:PHE:O	2.70	0.44
1:I:147:VAL:O	1:I:263:LEU:HB2	2.18	0.44
1:I:303:LYS:HD3	1:I:303:LYS:HA	1.70	0.44
1:K:147:VAL:O	1:K:263:LEU:HB2	2.18	0.44
1:K:322:ARG:HH22	1:K:352:ILE:HG12	1.81	0.44
1:K:491:PHE:CB	1:K:576:GLU:HG2	2.47	0.44
1:M:158:THR:HG23	1:M:159:TRP:CD1	2.41	0.44
1:M:420:ILE:HG21	1:M:422:ILE:HD11	1.98	0.44
1:M:486:LEU:O	1:M:488:ARG:HG3	2.16	0.44
1:O:188:SER:C	1:O:190:GLU:N	2.73	0.44
1:O:365:TYR:CZ	1:O:404:LYS:HB3	2.52	0.44
1:O:424:SER:C	1:O:427:LEU:HB3	2.42	0.44
1:Q:224:ILE:HD12	1:Q:224:ILE:O	2.17	0.44
1:Q:231:LEU:O	1:Q:234:SER:CB	2.59	0.44
1:Q:327:ILE:HG21	1:Q:341:TRP:HZ3	1.77	0.44
2:R:82:ARG:HA	2:R:82:ARG:HD2	1.82	0.44
1:U:15:ILE:HD12	1:U:96:GLN:CA	2.47	0.44
1:U:76:PHE:CD1	1:U:76:PHE:O	2.70	0.44
1:U:88:LEU:CA	1:U:91:PRO:HD2	2.39	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:U:251:LYS:CD	1:U:252:ALA:N	2.80	0.44
1:U:492:LEU:O	1:U:561:LEU:HD21	2.17	0.44
1:U:753:UNK:CB	1:U:811:UNK:HA	2.48	0.44
2:V:85:THR:C	2:V:87:TYR:N	2.72	0.44
1:W:229:ARG:O	1:W:233:LYS:HD3	2.14	0.44
1:W:424:SER:C	1:W:427:LEU:HB3	2.42	0.44
1:W:521:LEU:CD1	1:W:543:LEU:HD21	2.47	0.44
1:Y:224:ILE:HD12	1:Y:224:ILE:O	2.17	0.44
1:Y:274:PHE:CD1	1:Y:274:PHE:O	2.70	0.44
1:Y:491:PHE:CB	1:Y:576:GLU:HG2	2.47	0.44
1:Y:562:LEU:HD11	1:Y:580:GLN:HG3	1.99	0.44
1:Y:753:UNK:CB	1:Y:811:UNK:HA	2.48	0.44
2:Z:22:LEU:CD1	2:Z:77:LEU:HD13	2.35	0.44
1:a:357:LEU:HB3	1:a:366:ARG:NH1	2.31	0.44
1:a:424:SER:C	1:a:427:LEU:HB3	2.42	0.44
1:a:518:LEU:CD2	1:a:646:UNK:HA	2.42	0.44
1:c:158:THR:HG23	1:c:159:TRP:CD1	2.41	0.44
1:c:233:LYS:HD2	1:c:233:LYS:H	1.81	0.44
2:d:77:LEU:CA	2:d:80:THR:HG22	2.47	0.44
1:e:147:VAL:O	1:e:263:LEU:HB2	2.18	0.44
1:e:274:PHE:CD1	1:e:274:PHE:O	2.70	0.44
1:A:147:VAL:O	1:A:263:LEU:HB2	2.18	0.44
1:A:253:TRP:O	1:A:255:ALA:N	2.50	0.44
1:A:326:ILE:HD11	1:A:348:LYS:HB3	1.98	0.44
1:C:132:LEU:HD12	1:C:132:LEU:HA	1.80	0.44
1:C:247:VAL:HB	1:C:266:THR:OG1	2.18	0.44
1:E:231:LEU:O	1:E:234:SER:CB	2.59	0.44
1:E:253:TRP:O	1:E:255:ALA:N	2.50	0.44
1:E:464:ASP:OD1	1:E:501:ILE:CD1	2.49	0.44
1:E:564:ILE:O	1:E:567:MET:HG2	2.18	0.44
1:E:753:UNK:CB	1:E:811:UNK:HA	2.48	0.44
1:G:76:PHE:CD1	1:G:76:PHE:O	2.70	0.44
1:G:127:ARG:NH2	1:G:285:LEU:HD22	2.33	0.44
1:G:235:LYS:N	1:G:236:PRO:HD2	2.32	0.44
1:G:303:LYS:HD3	1:G:303:LYS:HA	1.70	0.44
2:H:81:GLN:CA	2:H:81:GLN:NE2	2.73	0.44
1:I:520:GLN:NE2	1:I:546:LEU:HD11	2.32	0.44
1:K:19:PHE:HE2	1:K:92:ILE:HA	1.82	0.44
1:K:192:VAL:HG23	1:K:221:ILE:CD1	2.30	0.44
1:K:274:PHE:CD1	1:K:274:PHE:O	2.70	0.44
1:M:65:LEU:CD2	1:M:76:PHE:CD2	3.00	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:233:LYS:HD2	1:M:233:LYS:H	1.81	0.44
1:M:253:TRP:O	1:M:255:ALA:N	2.50	0.44
1:M:491:PHE:CB	1:M:576:GLU:HG2	2.47	0.44
1:M:753:UNK:CB	1:M:811:UNK:HA	2.48	0.44
1:O:76:PHE:CD1	1:O:76:PHE:O	2.70	0.44
1:O:92:ILE:C	1:O:94:THR:N	2.70	0.44
1:O:752:UNK:CB	1:O:826:UNK:O	2.66	0.44
1:O:753:UNK:CB	1:O:811:UNK:HA	2.48	0.44
1:Q:76:PHE:CD1	1:Q:76:PHE:O	2.70	0.44
1:Q:274:PHE:CD1	1:Q:274:PHE:O	2.70	0.44
1:Q:491:PHE:CB	1:Q:576:GLU:HG2	2.47	0.44
1:Q:562:LEU:HD11	1:Q:580:GLN:HG3	1.99	0.44
1:U:1098:UNK:C	1:U:1100:UNK:N	2.80	0.44
1:W:247:VAL:HB	1:W:266:THR:OG1	2.18	0.44
1:W:253:TRP:O	1:W:255:ALA:N	2.50	0.44
1:W:410:LEU:CG	1:W:423:PRO:CD	2.47	0.44
1:W:520:GLN:NE2	1:W:546:LEU:HD11	2.32	0.44
1:Y:76:PHE:CD1	1:Y:76:PHE:O	2.70	0.44
1:Y:135:ARG:O	1:Y:135:ARG:HG2	2.15	0.44
1:a:76:PHE:CD1	1:a:76:PHE:O	2.70	0.44
1:a:127:ARG:NH2	1:a:285:LEU:HD22	2.33	0.44
1:a:338:TRP:HA	1:a:338:TRP:HE3	1.78	0.44
1:a:365:TYR:CZ	1:a:404:LYS:HB3	2.52	0.44
1:a:435:ASN:OD1	1:a:439:LEU:HD11	2.18	0.44
1:a:488:ARG:HH11	1:a:488:ARG:HG3	1.75	0.44
1:a:752:UNK:CB	1:a:826:UNK:O	2.66	0.44
1:c:327:ILE:HG21	1:c:341:TRP:HZ3	1.77	0.44
1:c:491:PHE:CB	1:c:576:GLU:HG2	2.47	0.44
1:e:369:PHE:CD1	1:e:411:VAL:CG2	3.00	0.44
1:e:491:PHE:CB	1:e:576:GLU:HG2	2.47	0.44
1:A:291:THR:O	1:A:292:LEU:C	2.58	0.44
1:A:303:LYS:HD3	1:A:303:LYS:HA	1.70	0.44
1:A:405:LEU:HD22	1:A:405:LEU:HA	1.90	0.44
1:A:1152:UNK:HA	1:A:1164:UNK:HA	1.98	0.44
1:C:279:THR:CG2	1:Q:118:GLN:HE21	2.15	0.44
1:C:381:ILE:HA	1:C:382:PRO:HD3	1.77	0.44
1:C:491:PHE:CB	1:C:576:GLU:HG2	2.47	0.44
1:E:19:PHE:HE2	1:E:92:ILE:HA	1.82	0.44
1:E:251:LYS:CD	1:E:252:ALA:N	2.80	0.44
1:E:435:ASN:OD1	1:E:439:LEU:HD11	2.18	0.44
1:G:19:PHE:CZ	1:G:92:ILE:HD13	2.28	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:302:LEU:CD1	1:G:311:ASP:CB	2.95	0.44
1:G:435:ASN:OD1	1:G:439:LEU:HD11	2.18	0.44
1:G:464:ASP:OD1	1:G:501:ILE:CD1	2.49	0.44
1:I:253:TRP:O	1:I:255:ALA:N	2.50	0.44
1:I:326:ILE:HD11	1:I:348:LYS:HB3	1.98	0.44
2:J:22:LEU:CD1	2:J:77:LEU:HD13	2.35	0.44
1:K:15:ILE:HD12	1:K:96:GLN:CA	2.47	0.44
1:K:66:LEU:HD23	1:K:66:LEU:HA	1.86	0.44
1:K:369:PHE:CD1	1:K:411:VAL:CG2	3.00	0.44
1:K:562:LEU:HD11	1:K:580:GLN:HG3	1.99	0.44
1:K:753:UNK:CB	1:K:811:UNK:HA	2.48	0.44
2:L:40:GLN:C	2:L:40:GLN:CD	2.85	0.44
1:M:12:TYR:CE2	1:M:92:ILE:CG2	3.01	0.44
1:M:752:UNK:CB	1:M:826:UNK:O	2.66	0.44
1:O:127:ARG:NH2	1:O:285:LEU:HD22	2.33	0.44
1:O:147:VAL:O	1:O:263:LEU:HB2	2.18	0.44
1:O:246:ASN:OD1	1:O:246:ASN:N	2.51	0.44
1:O:414:GLN:HB2	1:O:415:PRO:HD2	2.00	0.44
1:O:435:ASN:OD1	1:O:439:LEU:HD11	2.18	0.44
1:O:492:LEU:HD23	1:O:492:LEU:HA	1.85	0.44
2:P:82:ARG:HA	2:P:82:ARG:HD2	1.82	0.44
1:Q:377:PRO:HB3	1:Q:428:GLU:CG	2.43	0.44
1:Q:564:ILE:O	1:Q:567:MET:HG2	2.18	0.44
1:S:76:PHE:CD1	1:S:76:PHE:O	2.70	0.44
1:S:127:ARG:NH2	1:S:285:LEU:HD22	2.33	0.44
1:S:235:LYS:N	1:S:236:PRO:HD2	2.32	0.44
1:S:302:LEU:CD1	1:S:311:ASP:CB	2.95	0.44
1:S:435:ASN:OD1	1:S:439:LEU:HD11	2.18	0.44
1:U:125:VAL:HG21	1:U:300:LEU:HA	1.97	0.44
1:U:253:TRP:O	1:U:255:ALA:N	2.50	0.44
1:U:302:LEU:CD1	1:U:311:ASP:CB	2.95	0.44
1:U:435:ASN:OD1	1:U:439:LEU:HD11	2.18	0.44
1:U:564:ILE:O	1:U:567:MET:HG2	2.18	0.44
2:V:57:GLY:H	2:V:59:PRO:HD3	1.81	0.44
1:W:338:TRP:HA	1:W:338:TRP:HE3	1.78	0.44
1:W:491:PHE:CB	1:W:576:GLU:HG2	2.47	0.44
2:X:22:LEU:HD11	2:X:77:LEU:CD1	2.34	0.44
2:X:57:GLY:H	2:X:59:PRO:HD3	1.81	0.44
1:Y:29:CYS:HA	1:Y:32:VAL:CG2	2.41	0.44
1:Y:42:LYS:C	1:Y:45:ILE:HG22	2.41	0.44
1:Y:146:ASN:O	1:Y:280:THR:CB	2.47	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Y:460:PRO:HG3	1:Y:462:TYR:CZ	2.50	0.44
1:a:183:LEU:HB3	1:a:186:CYS:CB	2.46	0.44
1:a:188:SER:C	1:a:190:GLU:N	2.73	0.44
1:a:753:UNK:CB	1:a:811:UNK:HA	2.48	0.44
1:a:1152:UNK:HA	1:a:1164:UNK:HA	1.98	0.44
1:c:12:TYR:CE2	1:c:92:ILE:CG2	3.01	0.44
1:c:65:LEU:CD2	1:c:76:PHE:CD2	3.00	0.44
1:c:186:CYS:CA	1:c:191:THR:HG21	2.40	0.44
1:c:253:TRP:O	1:c:255:ALA:N	2.50	0.44
1:c:753:UNK:CB	1:c:811:UNK:HA	2.48	0.44
1:e:15:ILE:HD12	1:e:96:GLN:CA	2.47	0.44
1:e:19:PHE:HE2	1:e:92:ILE:HA	1.82	0.44
1:e:388:LEU:H	1:e:388:LEU:CD2	2.28	0.44
2:f:40:GLN:C	2:f:40:GLN:CD	2.85	0.44
1:A:15:ILE:HD12	1:A:96:GLN:CA	2.47	0.44
1:A:52:LYS:CD	1:A:53:ASP:CG	2.85	0.44
1:A:166:LEU:C	1:A:166:LEU:CD2	2.85	0.44
1:A:425:ILE:HD12	1:A:425:ILE:C	2.38	0.44
1:A:732:UNK:C	1:A:734:UNK:N	2.78	0.44
1:C:253:TRP:O	1:C:255:ALA:N	2.50	0.44
1:C:835:UNK:CB	1:C:836:UNK:N	2.81	0.44
2:D:57:GLY:H	2:D:59:PRO:HD3	1.81	0.44
1:E:302:LEU:CD1	1:E:311:ASP:CB	2.95	0.44
2:F:20:LYS:H	2:F:20:LYS:HG3	1.62	0.44
1:G:12:TYR:CE2	1:G:92:ILE:CG2	3.01	0.44
1:G:233:LYS:HD2	1:G:233:LYS:H	1.81	0.44
1:G:247:VAL:HB	1:G:266:THR:OG1	2.18	0.44
1:G:274:PHE:CD1	1:G:274:PHE:O	2.70	0.44
1:I:12:TYR:CE2	1:I:92:ILE:CG2	3.01	0.44
1:I:52:LYS:CD	1:I:53:ASP:CG	2.85	0.44
1:I:405:LEU:HD22	1:I:405:LEU:HA	1.90	0.44
1:I:1152:UNK:HA	1:I:1164:UNK:HA	1.98	0.44
1:K:12:TYR:CE2	1:K:92:ILE:CG2	3.01	0.44
1:K:65:LEU:CD2	1:K:76:PHE:CD2	3.00	0.44
1:K:127:ARG:NH2	1:K:285:LEU:HD22	2.33	0.44
1:K:138:LEU:CD1	1:K:263:LEU:HD22	2.48	0.44
1:K:235:LYS:N	1:K:236:PRO:HD2	2.32	0.44
2:L:77:LEU:CA	2:L:80:THR:HG22	2.47	0.44
1:M:39:ILE:HD11	1:M:76:PHE:CG	2.53	0.44
1:M:414:GLN:HB2	1:M:415:PRO:HD2	2.00	0.44
1:M:835:UNK:CB	1:M:836:UNK:N	2.81	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:O:235:LYS:HZ1	1:O:238:GLU:HG2	1.83	0.44
1:O:338:TRP:HA	1:O:338:TRP:HE3	1.78	0.44
1:O:518:LEU:CD2	1:O:646:UNK:HA	2.42	0.44
1:O:518:LEU:CD1	1:O:646:UNK:C	2.90	0.44
1:O:521:LEU:CD1	1:O:543:LEU:HD21	2.47	0.44
1:O:564:ILE:O	1:O:567:MET:HG2	2.18	0.44
1:O:1152:UNK:HA	1:O:1164:UNK:HA	1.98	0.44
2:P:93:ALA:O	2:P:97:ILE:HG12	2.16	0.44
1:Q:29:CYS:HA	1:Q:32:VAL:CG2	2.41	0.44
1:Q:42:LYS:C	1:Q:45:ILE:HG22	2.41	0.44
1:Q:63:TRP:HH2	1:Q:131:TYR:CG	2.36	0.44
1:S:208:THR:O	1:S:208:THR:OG1	2.26	0.44
1:S:247:VAL:HB	1:S:266:THR:OG1	2.18	0.44
2:T:81:GLN:CA	2:T:81:GLN:NE2	2.73	0.44
1:U:87:PHE:CD1	1:U:87:PHE:N	2.85	0.44
1:U:410:LEU:CG	1:U:423:PRO:CD	2.47	0.44
1:W:120:PHE:O	1:W:121:ALA:C	2.54	0.44
1:W:306:ASP:C	1:W:307:CYS:HG	2.26	0.44
1:W:564:ILE:O	1:W:567:MET:HG2	2.18	0.44
1:W:835:UNK:CB	1:W:836:UNK:N	2.81	0.44
1:Y:322:ARG:HH22	1:Y:352:ILE:HG12	1.81	0.44
1:Y:564:ILE:O	1:Y:567:MET:HG2	2.18	0.44
1:a:147:VAL:O	1:a:263:LEU:HB2	2.18	0.44
1:a:246:ASN:OD1	1:a:246:ASN:N	2.51	0.44
1:a:414:GLN:HB2	1:a:415:PRO:HD2	2.00	0.44
1:a:460:PRO:HG3	1:a:462:TYR:CZ	2.50	0.44
1:a:521:LEU:CD1	1:a:543:LEU:HD21	2.47	0.44
1:a:564:ILE:O	1:a:567:MET:HG2	2.18	0.44
2:b:93:ALA:O	2:b:97:ILE:HG12	2.16	0.44
1:c:39:ILE:HD11	1:c:76:PHE:CG	2.53	0.44
1:c:414:GLN:HB2	1:c:415:PRO:HD2	2.00	0.44
1:c:752:UNK:CB	1:c:826:UNK:O	2.66	0.44
1:e:12:TYR:CE2	1:e:92:ILE:CG2	3.01	0.44
1:e:47:HIS:O	1:e:50:MET:HB3	2.12	0.44
1:e:127:ARG:NH2	1:e:285:LEU:HD22	2.33	0.44
1:e:138:LEU:CD1	1:e:263:LEU:HD22	2.48	0.44
1:e:224:ILE:HD12	1:e:224:ILE:O	2.17	0.44
1:e:235:LYS:N	1:e:236:PRO:HD2	2.32	0.44
1:e:562:LEU:HD11	1:e:580:GLN:HG3	1.99	0.44
1:e:753:UNK:CB	1:e:811:UNK:HA	2.48	0.44
1:A:12:TYR:CE2	1:A:92:ILE:CG2	3.01	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:492:LEU:HD23	1:A:492:LEU:HA	1.85	0.44
1:C:435:ASN:OD1	1:C:439:LEU:HD11	2.18	0.44
1:C:492:LEU:O	1:C:561:LEU:HD21	2.17	0.44
1:C:564:ILE:O	1:C:567:MET:HG2	2.18	0.44
1:E:87:PHE:CD1	1:E:87:PHE:N	2.85	0.44
1:E:88:LEU:CA	1:E:91:PRO:HD2	2.39	0.44
1:E:186:CYS:CA	1:E:191:THR:HG21	2.40	0.44
2:F:57:GLY:H	2:F:59:PRO:HD3	1.81	0.44
2:F:77:LEU:CA	2:F:80:THR:HG22	2.47	0.44
1:G:47:HIS:CA	1:G:50:MET:HB2	2.47	0.44
1:G:411:VAL:CG1	1:G:411:VAL:O	2.66	0.44
2:H:77:LEU:CA	2:H:80:THR:HG22	2.47	0.44
1:I:15:ILE:HD12	1:I:96:GLN:CA	2.47	0.44
1:I:369:PHE:CD1	1:I:411:VAL:CG2	3.00	0.44
1:I:491:PHE:CB	1:I:576:GLU:HG2	2.47	0.44
1:I:732:UNK:C	1:I:734:UNK:N	2.78	0.44
1:K:63:TRP:HH2	1:K:131:TYR:CG	2.36	0.44
1:K:224:ILE:O	1:K:224:ILE:HD12	2.17	0.44
1:K:435:ASN:OD1	1:K:439:LEU:HD11	2.18	0.44
1:K:752:UNK:CB	1:K:826:UNK:O	2.66	0.44
1:M:141:LEU:HD13	1:M:147:VAL:HG23	2.00	0.44
1:M:246:ASN:OD1	1:M:246:ASN:N	2.51	0.44
1:O:183:LEU:HB3	1:O:186:CYS:CB	2.46	0.44
1:Q:86:LYS:HD2	1:Q:89:MET:HE2	1.95	0.44
1:Q:235:LYS:HZ1	1:Q:238:GLU:HG2	1.82	0.44
1:S:12:TYR:CE2	1:S:92:ILE:CG2	3.01	0.44
1:S:147:VAL:O	1:S:263:LEU:HB2	2.18	0.44
1:S:274:PHE:CD1	1:S:274:PHE:O	2.70	0.44
1:S:411:VAL:CG1	1:S:411:VAL:O	2.66	0.44
1:S:414:GLN:HB2	1:S:415:PRO:HD2	2.00	0.44
2:T:77:LEU:CA	2:T:80:THR:HG22	2.47	0.44
1:U:19:PHE:HE2	1:U:92:ILE:HA	1.82	0.44
1:U:147:VAL:O	1:U:263:LEU:HB2	2.18	0.44
1:U:247:VAL:HB	1:U:266:THR:OG1	2.18	0.44
2:V:77:LEU:CA	2:V:80:THR:HG22	2.47	0.44
1:W:63:TRP:HH2	1:W:131:TYR:CG	2.36	0.44
1:W:87:PHE:CD1	1:W:87:PHE:N	2.85	0.44
1:W:435:ASN:OD1	1:W:439:LEU:HD11	2.18	0.44
1:W:492:LEU:O	1:W:561:LEU:HD21	2.17	0.44
1:Y:63:TRP:HH2	1:Y:131:TYR:CG	2.36	0.44
2:Z:82:ARG:HA	2:Z:82:ARG:HD2	1.82	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:a:235:LYS:HZ1	1:a:238:GLU:HG2	1.83	0.44
2:b:82:ARG:HA	2:b:82:ARG:HD2	1.82	0.44
1:c:422:ILE:CG2	1:c:427:LEU:HD12	2.46	0.44
1:c:835:UNK:CB	1:c:836:UNK:N	2.81	0.44
1:e:63:TRP:HH2	1:e:131:TYR:CG	2.36	0.44
1:e:65:LEU:CD2	1:e:76:PHE:CD2	3.00	0.44
1:e:752:UNK:CB	1:e:826:UNK:O	2.66	0.44
2:f:77:LEU:CA	2:f:80:THR:HG22	2.47	0.44
1:A:166:LEU:CD2	1:A:167:SER:HA	2.42	0.44
1:A:207:TRP:HE1	1:A:227:GLU:CB	2.28	0.44
1:A:232:LEU:O	1:A:234:SER:N	2.47	0.44
1:A:235:LYS:N	1:A:236:PRO:HD2	2.32	0.44
1:A:243:VAL:CG1	1:A:263:LEU:CG	2.73	0.44
1:A:369:PHE:CD1	1:A:411:VAL:CG2	3.00	0.44
1:A:423:PRO:C	1:A:427:LEU:HB2	2.41	0.44
1:A:435:ASN:OD1	1:A:439:LEU:HD11	2.18	0.44
1:A:491:PHE:CB	1:A:576:GLU:HG2	2.47	0.44
1:A:528:ILE:HD13	1:A:529:CYS:N	2.33	0.44
2:B:57:GLY:O	2:B:59:PRO:HD2	2.06	0.44
1:C:63:TRP:HH2	1:C:131:TYR:CG	2.36	0.44
1:C:87:PHE:CD1	1:C:87:PHE:N	2.85	0.44
1:E:146:ASN:O	1:E:280:THR:CB	2.47	0.44
1:E:147:VAL:O	1:E:263:LEU:HB2	2.18	0.44
1:E:247:VAL:HB	1:E:266:THR:OG1	2.18	0.44
1:E:710:UNK:C	1:E:712:UNK:N	2.81	0.44
1:G:147:VAL:O	1:G:263:LEU:HB2	2.18	0.44
1:G:231:LEU:O	1:G:234:SER:CB	2.59	0.44
1:G:414:GLN:HB2	1:G:415:PRO:HD2	2.00	0.44
1:G:491:PHE:CB	1:G:576:GLU:HG2	2.47	0.44
2:H:85:THR:C	2:H:87:TYR:N	2.72	0.44
1:I:247:VAL:HB	1:I:266:THR:OG1	2.18	0.44
1:I:291:THR:O	1:I:292:LEU:C	2.58	0.44
1:I:414:GLN:HB2	1:I:415:PRO:HD2	2.00	0.44
1:I:423:PRO:C	1:I:427:LEU:HB2	2.41	0.44
1:I:435:ASN:OD1	1:I:439:LEU:HD11	2.18	0.44
1:I:528:ILE:HD13	1:I:529:CYS:N	2.33	0.44
2:J:77:LEU:CA	2:J:80:THR:HG22	2.47	0.44
1:K:39:ILE:HD11	1:K:76:PHE:CG	2.53	0.44
1:K:114:TYR:C	1:K:117:ASN:O	2.53	0.44
1:K:388:LEU:H	1:K:388:LEU:CD2	2.28	0.44
1:K:1098:UNK:C	1:K:1100:UNK:N	2.80	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:63:TRP:HH2	1:M:131:TYR:CG	2.36	0.44
1:M:327:ILE:HG21	1:M:341:TRP:HZ3	1.77	0.44
1:M:521:LEU:CD1	1:M:543:LEU:HD21	2.47	0.44
1:O:138:LEU:CD1	1:O:263:LEU:HD22	2.48	0.44
1:O:141:LEU:HD13	1:O:147:VAL:HG23	2.00	0.44
1:O:184:LYS:HZ2	1:O:184:LYS:HB2	1.82	0.44
1:O:253:TRP:O	1:O:255:ALA:N	2.50	0.44
1:O:460:PRO:HG3	1:O:462:TYR:CZ	2.50	0.44
1:O:835:UNK:CB	1:O:836:UNK:N	2.81	0.44
2:P:26:VAL:CG2	2:P:72:HIS:HB3	2.48	0.44
1:Q:322:ARG:HH22	1:Q:352:ILE:HG12	1.81	0.44
1:Q:435:ASN:OD1	1:Q:439:LEU:HD11	2.18	0.44
1:Q:752:UNK:CB	1:Q:826:UNK:O	2.66	0.44
2:R:22:LEU:CD1	2:R:77:LEU:HD13	2.35	0.44
1:S:231:LEU:O	1:S:234:SER:CB	2.59	0.44
1:S:233:LYS:HD2	1:S:233:LYS:H	1.81	0.44
1:S:710:UNK:C	1:S:712:UNK:N	2.81	0.44
1:U:63:TRP:HH2	1:U:131:TYR:CG	2.36	0.44
1:U:102:MET:O	1:U:105:MET:HB3	2.18	0.44
1:U:710:UNK:C	1:U:712:UNK:N	2.81	0.44
1:Y:141:LEU:HD13	1:Y:147:VAL:HG23	2.00	0.44
1:Y:752:UNK:CB	1:Y:826:UNK:O	2.66	0.44
1:a:138:LEU:CD1	1:a:263:LEU:HD22	2.48	0.44
1:a:141:LEU:HD13	1:a:147:VAL:HG23	2.00	0.44
1:a:388:LEU:H	1:a:388:LEU:CD2	2.28	0.44
1:a:528:ILE:HD13	1:a:529:CYS:N	2.33	0.44
1:a:835:UNK:CB	1:a:836:UNK:N	2.81	0.44
2:b:26:VAL:CG2	2:b:72:HIS:HB3	2.48	0.44
1:c:63:TRP:HH2	1:c:131:TYR:CG	2.36	0.44
1:c:141:LEU:HD13	1:c:147:VAL:HG23	2.00	0.44
1:c:246:ASN:OD1	1:c:246:ASN:N	2.51	0.44
1:c:521:LEU:CD1	1:c:543:LEU:HD21	2.47	0.44
1:e:39:ILE:HD11	1:e:76:PHE:CG	2.53	0.44
1:e:66:LEU:HD23	1:e:66:LEU:HA	1.86	0.44
1:e:435:ASN:OD1	1:e:439:LEU:HD11	2.18	0.44
1:A:41:SER:O	1:A:42:LYS:C	2.61	0.44
1:A:63:TRP:HH2	1:A:131:TYR:CG	2.36	0.44
1:A:247:VAL:HB	1:A:266:THR:OG1	2.18	0.44
1:A:414:GLN:HB2	1:A:415:PRO:HD2	2.00	0.44
2:B:77:LEU:CA	2:B:80:THR:HG22	2.47	0.44
1:C:110:ARG:HG3	1:C:110:ARG:NH1	2.33	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:120:PHE:O	1:C:121:ALA:C	2.54	0.44
1:C:338:TRP:HA	1:C:338:TRP:HE3	1.78	0.44
1:E:63:TRP:HH2	1:E:131:TYR:CG	2.36	0.44
1:E:405:LEU:HD22	1:E:405:LEU:HA	1.90	0.44
1:E:521:LEU:CD1	1:E:543:LEU:HD21	2.47	0.44
2:F:26:VAL:CG2	2:F:72:HIS:HB3	2.48	0.44
1:G:138:LEU:CD1	1:G:263:LEU:HD22	2.48	0.44
1:G:710:UNK:C	1:G:712:UNK:N	2.81	0.44
1:I:19:PHE:HE2	1:I:92:ILE:HA	1.82	0.44
1:I:41:SER:O	1:I:42:LYS:C	2.61	0.44
1:I:63:TRP:HH2	1:I:131:TYR:CG	2.36	0.44
1:I:207:TRP:HE1	1:I:227:GLU:CB	2.28	0.44
1:I:232:LEU:O	1:I:234:SER:N	2.47	0.44
1:I:235:LYS:N	1:I:236:PRO:HD2	2.32	0.44
1:I:425:ILE:HD12	1:I:425:ILE:C	2.38	0.44
1:K:47:HIS:O	1:K:50:MET:HB3	2.12	0.44
1:K:204:ASP:CG	1:K:205:PRO:HD2	2.42	0.44
2:L:85:THR:C	2:L:87:TYR:N	2.72	0.44
1:M:245:LEU:CD2	1:M:265:THR:CG2	2.96	0.44
1:M:247:VAL:HB	1:M:266:THR:OG1	2.18	0.44
1:M:422:ILE:CG2	1:M:427:LEU:HD12	2.46	0.44
1:M:435:ASN:HD22	1:M:435:ASN:HA	1.56	0.44
1:M:528:ILE:HD13	1:M:529:CYS:N	2.33	0.44
1:M:562:LEU:HD11	1:M:580:GLN:HG3	1.99	0.44
1:O:435:ASN:HD22	1:O:435:ASN:HA	1.56	0.44
1:O:528:ILE:HD13	1:O:529:CYS:N	2.33	0.44
1:Q:52:LYS:CD	1:Q:53:ASP:CG	2.85	0.44
1:Q:138:LEU:CD1	1:Q:263:LEU:HD22	2.48	0.44
1:Q:141:LEU:HD13	1:Q:147:VAL:HG23	2.00	0.44
1:Q:247:VAL:HB	1:Q:266:THR:OG1	2.18	0.44
1:Q:414:GLN:HB2	1:Q:415:PRO:HD2	2.00	0.44
1:Q:521:LEU:CD1	1:Q:543:LEU:HD21	2.47	0.44
1:S:47:HIS:CA	1:S:50:MET:HB2	2.47	0.44
1:S:138:LEU:CD1	1:S:263:LEU:HD22	2.48	0.44
1:S:491:PHE:CB	1:S:576:GLU:HG2	2.47	0.44
2:T:85:THR:C	2:T:87:TYR:N	2.72	0.44
1:U:41:SER:O	1:U:45:ILE:N	2.38	0.44
1:U:274:PHE:CD1	1:U:274:PHE:O	2.70	0.44
1:U:365:TYR:CZ	1:U:404:LYS:HB3	2.52	0.44
1:W:41:SER:O	1:W:42:LYS:C	2.61	0.44
1:W:110:ARG:HG3	1:W:110:ARG:NH1	2.33	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:W:420:ILE:HG21	1:W:422:ILE:HD11	1.98	0.44
1:Y:52:LYS:CD	1:Y:53:ASP:CG	2.85	0.44
1:Y:138:LEU:CD1	1:Y:263:LEU:HD22	2.48	0.44
1:Y:235:LYS:HZ1	1:Y:238:GLU:HG2	1.82	0.44
1:Y:247:VAL:HB	1:Y:266:THR:OG1	2.18	0.44
1:Y:435:ASN:OD1	1:Y:439:LEU:HD11	2.18	0.44
2:Z:65:LYS:HD3	2:Z:65:LYS:HA	1.85	0.44
1:a:518:LEU:CD1	1:a:646:UNK:C	2.90	0.44
1:c:186:CYS:C	1:c:191:THR:CG2	2.64	0.44
1:c:245:LEU:CD2	1:c:265:THR:CG2	2.96	0.44
1:c:247:VAL:HB	1:c:266:THR:OG1	2.18	0.44
1:c:425:ILE:HD12	1:c:425:ILE:C	2.38	0.44
1:c:528:ILE:HD13	1:c:529:CYS:N	2.33	0.44
1:c:562:LEU:HD11	1:c:580:GLN:HG3	1.99	0.44
1:e:47:HIS:CA	1:e:50:MET:HB2	2.47	0.44
1:e:204:ASP:CG	1:e:205:PRO:HD2	2.42	0.44
1:A:19:PHE:HE2	1:A:92:ILE:HA	1.82	0.43
2:B:26:VAL:CG2	2:B:72:HIS:HB3	2.48	0.43
1:C:39:ILE:HD11	1:C:76:PHE:CG	2.53	0.43
1:C:41:SER:O	1:C:42:LYS:C	2.61	0.43
1:C:193:LEU:O	1:C:197:GLN:N	2.50	0.43
1:C:274:PHE:CD1	1:C:274:PHE:O	2.70	0.43
1:C:1188:UNK:O	1:C:1190:UNK:N	2.51	0.43
1:E:322:ARG:HH22	1:E:352:ILE:HG12	1.81	0.43
1:E:835:UNK:CB	1:E:836:UNK:N	2.81	0.43
1:G:19:PHE:HE2	1:G:92:ILE:HA	1.82	0.43
1:G:207:TRP:HE1	1:G:227:GLU:CB	2.28	0.43
1:I:138:LEU:CD1	1:I:263:LEU:HD22	2.48	0.43
1:I:564:ILE:O	1:I:567:MET:HG2	2.18	0.43
1:I:835:UNK:CB	1:I:836:UNK:N	2.81	0.43
2:J:26:VAL:CG2	2:J:72:HIS:HB3	2.48	0.43
1:K:424:SER:C	1:K:427:LEU:HB3	2.42	0.43
1:K:528:ILE:HD13	1:K:529:CYS:N	2.33	0.43
1:M:76:PHE:CD1	1:M:76:PHE:O	2.70	0.43
1:M:492:LEU:HD12	1:M:577:ALA:CB	2.48	0.43
2:N:26:VAL:CG2	2:N:72:HIS:HB3	2.48	0.43
1:O:12:TYR:CE2	1:O:92:ILE:CG2	3.01	0.43
1:O:12:TYR:HD2	1:O:77:VAL:HG21	1.83	0.43
1:O:63:TRP:HH2	1:O:131:TYR:CG	2.36	0.43
1:O:184:LYS:HA	1:O:184:LYS:CE	2.45	0.43
1:O:245:LEU:CD2	1:O:265:THR:CG2	2.96	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:O:668:UNK:C	1:O:670:UNK:N	2.81	0.43
1:Q:41:SER:O	1:Q:42:LYS:C	2.61	0.43
1:Q:47:HIS:CA	1:Q:50:MET:HB2	2.47	0.43
1:Q:186:CYS:C	1:Q:191:THR:CG2	2.64	0.43
2:R:26:VAL:CG2	2:R:72:HIS:HB3	2.48	0.43
1:S:207:TRP:HE1	1:S:227:GLU:CB	2.28	0.43
1:S:564:ILE:O	1:S:567:MET:HG2	2.18	0.43
1:S:753:UNK:CB	1:S:811:UNK:HA	2.48	0.43
1:U:146:ASN:O	1:U:280:THR:CB	2.47	0.43
1:U:203:ILE:HG21	1:U:231:LEU:CD2	2.46	0.43
1:U:246:ASN:N	1:U:246:ASN:OD1	2.51	0.43
2:V:26:VAL:CG2	2:V:72:HIS:HB3	2.48	0.43
2:V:40:GLN:C	2:V:40:GLN:CD	2.85	0.43
1:W:39:ILE:HD11	1:W:76:PHE:CG	2.53	0.43
1:W:138:LEU:CD1	1:W:263:LEU:HD22	2.48	0.43
1:W:274:PHE:O	1:W:274:PHE:CD1	2.70	0.43
1:W:279:THR:CG2	1:Y:118:GLN:HE21	2.15	0.43
1:W:1188:UNK:O	1:W:1190:UNK:N	2.51	0.43
2:X:26:VAL:CG2	2:X:72:HIS:HB3	2.48	0.43
1:Y:41:SER:O	1:Y:42:LYS:C	2.61	0.43
1:Y:47:HIS:CA	1:Y:50:MET:HB2	2.47	0.43
1:Y:86:LYS:HD2	1:Y:89:MET:HE2	1.95	0.43
1:Y:186:CYS:C	1:Y:191:THR:CG2	2.64	0.43
1:Y:414:GLN:HB2	1:Y:415:PRO:HD2	2.00	0.43
1:Y:521:LEU:CD1	1:Y:543:LEU:HD21	2.47	0.43
2:Z:26:VAL:CG2	2:Z:72:HIS:HB3	2.48	0.43
1:a:12:TYR:CE2	1:a:92:ILE:CG2	3.01	0.43
1:a:12:TYR:HD2	1:a:77:VAL:HG21	1.83	0.43
1:a:166:LEU:CD2	1:a:167:SER:HA	2.42	0.43
1:a:245:LEU:CD2	1:a:265:THR:CG2	2.96	0.43
1:c:41:SER:O	1:c:45:ILE:N	2.38	0.43
1:c:165:CYS:HG	1:c:180:TRP:HZ2	1.55	0.43
1:c:492:LEU:HD12	1:c:577:ALA:CB	2.48	0.43
1:e:192:VAL:HG23	1:e:221:ILE:CD1	2.30	0.43
1:e:521:LEU:CD1	1:e:543:LEU:HD21	2.47	0.43
1:e:528:ILE:HD13	1:e:529:CYS:N	2.33	0.43
1:e:1098:UNK:C	1:e:1100:UNK:N	2.80	0.43
1:A:138:LEU:CD1	1:A:263:LEU:HD22	2.48	0.43
1:A:564:ILE:O	1:A:567:MET:HG2	2.18	0.43
1:A:1188:UNK:O	1:A:1190:UNK:N	2.51	0.43
1:C:127:ARG:NH2	1:C:285:LEU:HD22	2.33	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:138:LEU:CD1	1:C:263:LEU:HD22	2.48	0.43
1:C:224:ILE:O	1:C:224:ILE:HD12	2.17	0.43
1:C:245:LEU:CD2	1:C:265:THR:CG2	2.96	0.43
1:C:420:ILE:HG21	1:C:422:ILE:HD11	1.98	0.43
2:D:26:VAL:CG2	2:D:72:HIS:HB3	2.48	0.43
2:D:40:GLN:C	2:D:40:GLN:CD	2.85	0.43
2:D:82:ARG:HA	2:D:82:ARG:HD2	1.82	0.43
1:E:12:TYR:CE2	1:E:92:ILE:CG2	3.01	0.43
1:E:138:LEU:CD1	1:E:263:LEU:HD22	2.48	0.43
1:E:246:ASN:N	1:E:246:ASN:OD1	2.51	0.43
1:E:274:PHE:CD1	1:E:274:PHE:O	2.70	0.43
1:E:424:SER:C	1:E:427:LEU:HB3	2.42	0.43
1:E:435:ASN:HD22	1:E:435:ASN:HA	1.56	0.43
1:E:492:LEU:HD12	1:E:577:ALA:CB	2.48	0.43
2:F:40:GLN:C	2:F:40:GLN:CD	2.85	0.43
1:G:492:LEU:HD12	1:G:577:ALA:CB	2.48	0.43
1:G:564:ILE:O	1:G:567:MET:HG2	2.18	0.43
1:G:753:UNK:CB	1:G:811:UNK:HA	2.48	0.43
1:I:166:LEU:C	1:I:166:LEU:CD2	2.85	0.43
1:I:405:LEU:O	1:I:406:HIS:C	2.61	0.43
1:I:1188:UNK:O	1:I:1190:UNK:N	2.51	0.43
1:K:47:HIS:CA	1:K:50:MET:HB2	2.47	0.43
1:K:246:ASN:OD1	1:K:246:ASN:N	2.51	0.43
1:K:247:VAL:HB	1:K:266:THR:OG1	2.18	0.43
1:K:279:THR:HG23	1:K:280:THR:HG22	1.97	0.43
1:M:424:SER:C	1:M:427:LEU:HB3	2.42	0.43
1:M:564:ILE:O	1:M:567:MET:HG2	2.18	0.43
1:O:29:CYS:HA	1:O:32:VAL:CG2	2.41	0.43
1:O:562:LEU:HD11	1:O:580:GLN:HG3	1.99	0.43
1:Q:110:ARG:HG3	1:Q:110:ARG:NH1	2.33	0.43
1:Q:365:TYR:CZ	1:Q:404:LYS:HB3	2.52	0.43
2:R:40:GLN:C	2:R:40:GLN:CD	2.85	0.43
2:R:65:LYS:HD3	2:R:65:LYS:HA	1.85	0.43
1:S:19:PHE:HE2	1:S:92:ILE:HA	1.82	0.43
1:S:87:PHE:CD1	1:S:87:PHE:N	2.85	0.43
1:S:492:LEU:HD12	1:S:577:ALA:CB	2.48	0.43
1:S:528:ILE:HD13	1:S:529:CYS:N	2.33	0.43
1:U:322:ARG:HH22	1:U:352:ILE:HG12	1.81	0.43
1:U:424:SER:C	1:U:427:LEU:HB3	2.42	0.43
1:U:521:LEU:CD1	1:U:543:LEU:HD21	2.47	0.43
1:U:1188:UNK:O	1:U:1190:UNK:N	2.51	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:W:127:ARG:NH2	1:W:285:LEU:HD22	2.33	0.43
1:W:147:VAL:O	1:W:263:LEU:HB2	2.18	0.43
1:W:243:VAL:C	1:W:244:LEU:O	2.55	0.43
1:W:245:LEU:CD2	1:W:265:THR:CG2	2.96	0.43
1:W:422:ILE:CG2	1:W:427:LEU:HD12	2.46	0.43
2:X:40:GLN:C	2:X:40:GLN:CD	2.85	0.43
1:Y:39:ILE:HD11	1:Y:76:PHE:CG	2.53	0.43
1:Y:92:ILE:C	1:Y:94:THR:N	2.70	0.43
1:Y:110:ARG:HG3	1:Y:110:ARG:NH1	2.33	0.43
1:Y:245:LEU:CD2	1:Y:265:THR:CG2	2.96	0.43
2:Z:40:GLN:C	2:Z:40:GLN:CD	2.85	0.43
1:a:63:TRP:HH2	1:a:131:TYR:CG	2.36	0.43
1:a:184:LYS:HA	1:a:184:LYS:CE	2.45	0.43
1:a:668:UNK:C	1:a:670:UNK:N	2.81	0.43
1:c:76:PHE:CD1	1:c:76:PHE:O	2.70	0.43
2:d:26:VAL:CG2	2:d:72:HIS:HB3	2.48	0.43
1:e:247:VAL:HB	1:e:266:THR:OG1	2.18	0.43
1:e:424:SER:C	1:e:427:LEU:HB3	2.42	0.43
2:f:85:THR:C	2:f:87:TYR:N	2.72	0.43
1:A:243:VAL:C	1:A:244:LEU:O	2.55	0.43
1:A:354:GLU:C	1:A:356:SER:N	2.73	0.43
1:A:405:LEU:O	1:A:406:HIS:C	2.61	0.43
1:A:449:ILE:HD11	1:A:467:PHE:HE2	1.83	0.43
1:A:710:UNK:C	1:A:712:UNK:N	2.81	0.43
1:A:835:UNK:CB	1:A:836:UNK:N	2.81	0.43
1:C:183:LEU:HD23	1:C:183:LEU:HA	1.72	0.43
1:C:349:LEU:HA	1:C:352:ILE:HD13	2.01	0.43
1:C:353:ILE:HG21	1:C:426:TYR:HA	2.01	0.43
1:E:39:ILE:HD11	1:E:76:PHE:CG	2.53	0.43
1:E:203:ILE:HG21	1:E:231:LEU:CD2	2.46	0.43
1:E:1188:UNK:O	1:E:1190:UNK:N	2.51	0.43
2:F:22:LEU:HD11	2:F:77:LEU:CD1	2.34	0.43
1:G:528:ILE:HD13	1:G:529:CYS:N	2.33	0.43
1:I:166:LEU:CD2	1:I:167:SER:HA	2.42	0.43
1:I:193:LEU:O	1:I:197:GLN:N	2.50	0.43
1:I:243:VAL:C	1:I:244:LEU:O	2.55	0.43
1:I:290:MET:HB3	1:I:290:MET:HE2	1.81	0.43
1:I:354:GLU:C	1:I:356:SER:N	2.73	0.43
1:I:449:ILE:HD11	1:I:467:PHE:HE2	1.83	0.43
1:I:492:LEU:HD23	1:I:492:LEU:HA	1.85	0.43
2:J:57:GLY:O	2:J:59:PRO:HD2	2.06	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:12:TYR:HD2	1:K:77:VAL:HG21	1.83	0.43
1:K:245:LEU:CD2	1:K:265:THR:CG2	2.96	0.43
1:K:449:ILE:HD11	1:K:467:PHE:HE2	1.84	0.43
1:K:521:LEU:CD1	1:K:543:LEU:HD21	2.47	0.43
1:M:425:ILE:HD12	1:M:425:ILE:C	2.38	0.43
1:M:710:UNK:C	1:M:712:UNK:N	2.81	0.43
2:N:68:ARG:HG3	2:N:68:ARG:HH11	1.84	0.43
2:N:82:ARG:NH1	2:N:82:ARG:CG	2.73	0.43
1:O:39:ILE:HD11	1:O:76:PHE:CG	2.53	0.43
1:Q:39:ILE:HD11	1:Q:76:PHE:CG	2.53	0.43
1:Q:245:LEU:CD2	1:Q:265:THR:CG2	2.96	0.43
1:Q:303:LYS:HD3	1:Q:303:LYS:HA	1.70	0.43
1:Q:1188:UNK:O	1:Q:1190:UNK:N	2.51	0.43
1:S:229:ARG:NH2	1:S:229:ARG:CG	2.81	0.43
2:T:57:GLY:H	2:T:59:PRO:HD3	1.81	0.43
1:U:12:TYR:CE2	1:U:92:ILE:CG2	3.01	0.43
1:U:138:LEU:CD1	1:U:263:LEU:HD22	2.48	0.43
1:U:174:MET:HE3	1:U:174:MET:HB2	1.76	0.43
1:U:449:ILE:HD11	1:U:467:PHE:HE2	1.83	0.43
1:U:492:LEU:HD12	1:U:577:ALA:CB	2.48	0.43
1:U:752:UNK:CB	1:U:826:UNK:O	2.66	0.43
1:U:835:UNK:CB	1:U:836:UNK:N	2.81	0.43
1:W:193:LEU:O	1:W:197:GLN:N	2.50	0.43
1:W:224:ILE:O	1:W:224:ILE:HD12	2.17	0.43
1:W:349:LEU:HA	1:W:352:ILE:HD13	2.01	0.43
1:W:353:ILE:HG21	1:W:426:TYR:HA	2.01	0.43
1:Y:87:PHE:CD1	1:Y:87:PHE:N	2.85	0.43
1:Y:365:TYR:CZ	1:Y:404:LYS:HB3	2.52	0.43
1:a:29:CYS:HA	1:a:32:VAL:CG2	2.41	0.43
1:a:39:ILE:HD11	1:a:76:PHE:CG	2.53	0.43
1:a:491:PHE:CB	1:a:576:GLU:HG2	2.47	0.43
1:a:562:LEU:HD11	1:a:580:GLN:HG3	1.99	0.43
1:c:424:SER:C	1:c:427:LEU:HB3	2.42	0.43
1:c:564:ILE:O	1:c:567:MET:HG2	2.18	0.43
2:d:68:ARG:HH11	2:d:68:ARG:HG3	1.84	0.43
1:e:12:TYR:HD2	1:e:77:VAL:HG21	1.83	0.43
1:e:41:SER:O	1:e:42:LYS:C	2.61	0.43
1:e:114:TYR:C	1:e:117:ASN:O	2.53	0.43
1:e:449:ILE:HD11	1:e:467:PHE:HE2	1.84	0.43
1:e:518:LEU:CD2	1:e:646:UNK:HA	2.42	0.43
1:A:48:ILE:CG2	1:A:61:LEU:HB2	2.46	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:110:ARG:HG3	1:A:110:ARG:NH1	2.33	0.43
1:A:132:LEU:HD12	1:A:132:LEU:HA	1.80	0.43
1:A:146:ASN:O	1:A:280:THR:CB	2.47	0.43
1:A:193:LEU:O	1:A:197:GLN:N	2.50	0.43
1:A:274:PHE:CD1	1:A:274:PHE:O	2.70	0.43
1:A:381:ILE:HA	1:A:382:PRO:HD3	1.77	0.43
1:A:492:LEU:HD12	1:A:577:ALA:CB	2.48	0.43
1:A:753:UNK:CB	1:A:811:UNK:HA	2.48	0.43
1:C:47:HIS:CA	1:C:50:MET:HB2	2.47	0.43
1:C:147:VAL:O	1:C:263:LEU:HB2	2.18	0.43
1:C:422:ILE:CG2	1:C:427:LEU:HD12	2.46	0.43
1:C:492:LEU:HD12	1:C:577:ALA:CB	2.48	0.43
1:E:41:SER:O	1:E:45:ILE:N	2.38	0.43
1:E:199:LEU:O	1:E:203:ILE:HD12	2.19	0.43
1:E:349:LEU:HA	1:E:352:ILE:HD13	2.01	0.43
1:E:449:ILE:HD11	1:E:467:PHE:HE2	1.83	0.43
1:E:752:UNK:CB	1:E:826:UNK:O	2.66	0.43
1:G:39:ILE:HD11	1:G:76:PHE:CG	2.53	0.43
1:G:87:PHE:CD1	1:G:87:PHE:N	2.85	0.43
1:G:349:LEU:HA	1:G:352:ILE:HD13	2.01	0.43
1:G:405:LEU:HD22	1:G:405:LEU:HA	1.90	0.43
1:G:1237:UNK:C	1:G:1239:UNK:N	2.82	0.43
1:I:146:ASN:O	1:I:280:THR:CB	2.47	0.43
1:I:710:UNK:C	1:I:712:UNK:N	2.81	0.43
1:I:1237:UNK:C	1:I:1239:UNK:N	2.82	0.43
1:K:41:SER:O	1:K:42:LYS:C	2.61	0.43
1:K:303:LYS:HA	1:K:303:LYS:HD3	1.70	0.43
1:K:349:LEU:HA	1:K:352:ILE:HD13	2.01	0.43
1:O:199:LEU:O	1:O:203:ILE:HD12	2.19	0.43
1:O:491:PHE:CB	1:O:576:GLU:HG2	2.47	0.43
1:Q:92:ILE:C	1:Q:94:THR:N	2.70	0.43
1:Q:528:ILE:HD13	1:Q:529:CYS:N	2.33	0.43
1:Q:835:UNK:CB	1:Q:836:UNK:N	2.81	0.43
1:S:246:ASN:OD1	1:S:246:ASN:N	2.51	0.43
1:S:349:LEU:HA	1:S:352:ILE:HD13	2.01	0.43
1:S:1237:UNK:C	1:S:1239:UNK:N	2.82	0.43
1:U:39:ILE:HD11	1:U:76:PHE:CG	2.53	0.43
1:U:322:ARG:HA	1:U:322:ARG:HD2	1.64	0.43
1:U:349:LEU:HA	1:U:352:ILE:HD13	2.01	0.43
1:U:399:MET:HE2	1:U:399:MET:HB2	1.66	0.43
1:U:411:VAL:CG1	1:U:411:VAL:O	2.66	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:U:491:PHE:CB	1:U:576:GLU:HG2	2.47	0.43
1:W:47:HIS:CA	1:W:50:MET:HB2	2.47	0.43
1:Y:528:ILE:HD13	1:Y:529:CYS:N	2.33	0.43
1:Y:1188:UNK:O	1:Y:1190:UNK:N	2.51	0.43
1:c:12:TYR:HD2	1:c:77:VAL:HG21	1.84	0.43
1:c:518:LEU:CD2	1:c:646:UNK:HA	2.42	0.43
1:c:710:UNK:C	1:c:712:UNK:N	2.81	0.43
1:e:245:LEU:CD2	1:e:265:THR:CG2	2.96	0.43
1:e:246:ASN:OD1	1:e:246:ASN:N	2.51	0.43
1:A:39:ILE:HD11	1:A:76:PHE:CG	2.53	0.43
1:A:1237:UNK:C	1:A:1239:UNK:N	2.82	0.43
1:C:199:LEU:O	1:C:203:ILE:HD12	2.19	0.43
1:C:375:PHE:HD2	1:C:466:TYR:CE2	2.36	0.43
1:C:414:GLN:HB2	1:C:415:PRO:HD2	2.00	0.43
1:C:752:UNK:CB	1:C:826:UNK:O	2.66	0.43
1:E:188:SER:C	1:E:191:THR:HG23	2.30	0.43
1:E:353:ILE:HG21	1:E:426:TYR:HA	2.01	0.43
1:E:399:MET:HE2	1:E:399:MET:HB2	1.66	0.43
1:E:491:PHE:CB	1:E:576:GLU:HG2	2.47	0.43
1:G:229:ARG:NH2	1:G:229:ARG:CG	2.81	0.43
1:G:520:GLN:HG2	1:G:524:TYR:HE2	1.84	0.43
1:I:39:ILE:HD11	1:I:76:PHE:CG	2.53	0.43
1:I:110:ARG:HG3	1:I:110:ARG:NH1	2.33	0.43
1:I:132:LEU:HD12	1:I:132:LEU:HA	1.80	0.43
1:I:243:VAL:CG1	1:I:263:LEU:CG	2.73	0.43
1:I:246:ASN:OD1	1:I:246:ASN:N	2.51	0.43
1:I:274:PHE:CD1	1:I:274:PHE:O	2.70	0.43
1:I:287:HIS:ND1	1:I:288:HIS:N	2.59	0.43
1:I:369:PHE:HE1	1:I:411:VAL:CG2	2.29	0.43
1:I:492:LEU:HD12	1:I:577:ALA:CB	2.48	0.43
1:I:753:UNK:CB	1:I:811:UNK:HA	2.48	0.43
1:K:193:LEU:O	1:K:197:GLN:N	2.50	0.43
1:M:12:TYR:HD2	1:M:77:VAL:HG21	1.84	0.43
1:M:443:ILE:HD11	1:M:477:ASN:HB3	2.01	0.43
1:M:1188:UNK:O	1:M:1190:UNK:N	2.51	0.43
1:O:166:LEU:CD2	1:O:167:SER:HA	2.42	0.43
1:O:221:ILE:O	1:O:224:ILE:CG2	2.67	0.43
1:Q:87:PHE:CD1	1:Q:87:PHE:N	2.85	0.43
1:Q:199:LEU:O	1:Q:203:ILE:HD12	2.19	0.43
1:Q:349:LEU:HA	1:Q:352:ILE:HD13	2.01	0.43
1:Q:520:GLN:HG2	1:Q:524:TYR:HE2	1.84	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:S:15:ILE:HD12	1:S:96:GLN:CA	2.47	0.43
1:S:39:ILE:HD11	1:S:76:PHE:CG	2.53	0.43
1:S:63:TRP:HH2	1:S:131:TYR:CG	2.36	0.43
1:U:132:LEU:HD12	1:U:132:LEU:HA	1.80	0.43
1:U:199:LEU:O	1:U:203:ILE:HD12	2.19	0.43
1:U:327:ILE:HG21	1:U:341:TRP:HZ3	1.77	0.43
1:W:192:VAL:CB	1:W:221:ILE:HD12	2.21	0.43
1:W:492:LEU:HD12	1:W:577:ALA:CB	2.48	0.43
1:W:752:UNK:CB	1:W:826:UNK:O	2.66	0.43
2:X:81:GLN:HA	2:X:81:GLN:NE2	2.08	0.43
1:Y:199:LEU:O	1:Y:203:ILE:HD12	2.19	0.43
1:Y:221:ILE:O	1:Y:224:ILE:CG2	2.67	0.43
1:Y:520:GLN:HG2	1:Y:524:TYR:HE2	1.84	0.43
1:Y:835:UNK:CB	1:Y:836:UNK:N	2.81	0.43
1:a:199:LEU:O	1:a:203:ILE:HD12	2.19	0.43
1:a:221:ILE:O	1:a:224:ILE:CG2	2.67	0.43
1:a:224:ILE:HD12	1:a:224:ILE:O	2.17	0.43
1:c:410:LEU:HA	1:c:423:PRO:HG2	1.87	0.43
1:c:443:ILE:HD11	1:c:477:ASN:HB3	2.01	0.43
1:e:166:LEU:C	1:e:166:LEU:CD2	2.86	0.43
1:e:279:THR:HG23	1:e:280:THR:HG22	1.97	0.43
1:e:349:LEU:HA	1:e:352:ILE:HD13	2.01	0.43
1:A:231:LEU:O	1:A:234:SER:CB	2.59	0.43
1:A:246:ASN:OD1	1:A:246:ASN:N	2.51	0.43
1:A:287:HIS:ND1	1:A:288:HIS:N	2.59	0.43
1:A:304:TYR:CD1	1:A:304:TYR:N	2.81	0.43
1:A:349:LEU:HA	1:A:352:ILE:HD13	2.01	0.43
1:A:369:PHE:HE1	1:A:411:VAL:CG2	2.29	0.43
1:A:443:ILE:HD11	1:A:477:ASN:HB3	2.01	0.43
1:A:495:ARG:HH11	1:A:546:LEU:HA	1.84	0.43
1:C:303:LYS:HD3	1:C:303:LYS:HA	1.70	0.43
1:C:381:ILE:N	1:C:420:ILE:O	2.48	0.43
1:E:221:ILE:O	1:E:224:ILE:CG2	2.67	0.43
1:E:245:LEU:CD2	1:E:265:THR:CG2	2.96	0.43
1:E:411:VAL:CG1	1:E:411:VAL:O	2.66	0.43
1:G:15:ILE:HD12	1:G:96:GLN:CA	2.47	0.43
1:G:62:PHE:O	1:G:66:LEU:HG	2.18	0.43
1:G:63:TRP:HH2	1:G:131:TYR:CG	2.36	0.43
1:G:246:ASN:OD1	1:G:246:ASN:N	2.51	0.43
1:G:399:MET:HE2	1:G:399:MET:HB2	1.66	0.43
1:G:835:UNK:C	1:G:836:UNK:H2	2.32	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:40:GLN:C	2:H:40:GLN:CD	2.85	0.43
2:H:57:GLY:H	2:H:59:PRO:HD3	1.81	0.43
1:I:231:LEU:O	1:I:234:SER:CB	2.59	0.43
1:I:443:ILE:HD11	1:I:477:ASN:HB3	2.01	0.43
1:I:495:ARG:HH11	1:I:546:LEU:HA	1.84	0.43
1:I:752:UNK:CB	1:I:826:UNK:O	2.66	0.43
1:K:141:LEU:HD13	1:K:147:VAL:HG23	2.00	0.43
1:K:518:LEU:CD2	1:K:646:UNK:HA	2.42	0.43
1:K:520:GLN:HG2	1:K:524:TYR:HE2	1.84	0.43
2:L:26:VAL:CG2	2:L:72:HIS:HB3	2.48	0.43
1:M:41:SER:O	1:M:45:ILE:N	2.38	0.43
1:M:138:LEU:CD1	1:M:263:LEU:HD22	2.48	0.43
1:M:221:ILE:O	1:M:224:ILE:CG2	2.67	0.43
1:M:349:LEU:HA	1:M:352:ILE:HD13	2.01	0.43
1:M:353:ILE:HG21	1:M:426:TYR:HA	2.01	0.43
1:M:360:LEU:HD12	1:M:365:TYR:CB	2.45	0.43
1:M:518:LEU:CD1	1:M:646:UNK:C	2.90	0.43
1:O:247:VAL:HB	1:O:266:THR:OG1	2.18	0.43
1:O:290:MET:H	1:O:290:MET:HG2	1.49	0.43
1:Q:147:VAL:O	1:Q:263:LEU:HB2	2.18	0.43
1:Q:221:ILE:O	1:Q:224:ILE:CG2	2.67	0.43
1:Q:375:PHE:HD2	1:Q:466:TYR:CE2	2.36	0.43
1:Q:492:LEU:O	1:Q:561:LEU:HD21	2.17	0.43
1:S:62:PHE:O	1:S:66:LEU:HG	2.18	0.43
1:S:134:LEU:N	1:S:283:ILE:HD11	2.34	0.43
1:S:399:MET:HE2	1:S:399:MET:HB2	1.66	0.43
1:S:405:LEU:HD22	1:S:405:LEU:HA	1.90	0.43
1:S:520:GLN:HG2	1:S:524:TYR:HE2	1.84	0.43
1:S:1188:UNK:O	1:S:1190:UNK:N	2.51	0.43
2:T:40:GLN:C	2:T:40:GLN:CD	2.85	0.43
1:U:62:PHE:O	1:U:66:LEU:HG	2.18	0.43
1:U:221:ILE:O	1:U:224:ILE:CG2	2.67	0.43
1:U:245:LEU:CD2	1:U:265:THR:CG2	2.96	0.43
1:U:353:ILE:HG21	1:U:426:TYR:HA	2.01	0.43
1:W:199:LEU:O	1:W:203:ILE:HD12	2.19	0.43
1:W:375:PHE:HD2	1:W:466:TYR:CE2	2.36	0.43
1:W:414:GLN:HB2	1:W:415:PRO:HD2	2.00	0.43
1:Y:291:THR:O	1:Y:292:LEU:C	2.58	0.43
1:Y:303:LYS:HD3	1:Y:303:LYS:HA	1.70	0.43
1:Y:349:LEU:HA	1:Y:352:ILE:HD13	2.01	0.43
1:a:87:PHE:CD1	1:a:87:PHE:N	2.85	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:a:233:LYS:HD2	1:a:233:LYS:H	1.81	0.43
2:b:68:ARG:HG3	2:b:68:ARG:HH11	1.84	0.43
1:c:138:LEU:CD1	1:c:263:LEU:HD22	2.48	0.43
1:c:221:ILE:O	1:c:224:ILE:CG2	2.67	0.43
1:c:349:LEU:HA	1:c:352:ILE:HD13	2.01	0.43
1:c:353:ILE:HG21	1:c:426:TYR:HA	2.01	0.43
1:c:1188:UNK:O	1:c:1190:UNK:N	2.51	0.43
1:e:193:LEU:O	1:e:197:GLN:N	2.50	0.43
1:e:520:GLN:HG2	1:e:524:TYR:HE2	1.84	0.43
1:e:564:ILE:O	1:e:567:MET:HG2	2.18	0.43
1:A:134:LEU:N	1:A:283:ILE:HD11	2.34	0.43
1:A:199:LEU:O	1:A:203:ILE:HD12	2.19	0.43
1:A:235:LYS:N	1:A:236:PRO:CD	2.82	0.43
1:A:290:MET:HB3	1:A:290:MET:HE2	1.81	0.43
1:A:752:UNK:CB	1:A:826:UNK:O	2.66	0.43
1:C:488:ARG:CG	1:C:488:ARG:NH1	2.65	0.43
1:C:710:UNK:C	1:C:712:UNK:N	2.81	0.43
1:E:62:PHE:O	1:E:66:LEU:HG	2.18	0.43
1:E:88:LEU:CA	1:E:91:PRO:CD	2.97	0.43
1:E:110:ARG:HG3	1:E:110:ARG:NH1	2.33	0.43
1:E:114:TYR:C	1:E:117:ASN:O	2.53	0.43
1:E:132:LEU:HD12	1:E:132:LEU:HA	1.80	0.43
1:E:260:CYS:O	1:E:262:ILE:HG23	2.19	0.43
1:E:322:ARG:HD3	3:E:2000:ADP:H4'	2.00	0.43
1:E:424:SER:O	1:E:428:GLU:N	2.49	0.43
1:E:1237:UNK:C	1:E:1239:UNK:N	2.82	0.43
1:G:88:LEU:CA	1:G:91:PRO:CD	2.97	0.43
1:G:110:ARG:HG3	1:G:110:ARG:NH1	2.33	0.43
1:G:117:ASN:ND2	1:G:162:LEU:CD1	2.82	0.43
1:G:134:LEU:N	1:G:283:ILE:HD11	2.34	0.43
1:G:365:TYR:CZ	1:G:404:LYS:HB3	2.52	0.43
1:G:449:ILE:HD11	1:G:467:PHE:HE2	1.84	0.43
1:G:1188:UNK:O	1:G:1190:UNK:N	2.51	0.43
1:I:48:ILE:CG2	1:I:61:LEU:HB2	2.46	0.43
1:I:134:LEU:N	1:I:283:ILE:HD11	2.34	0.43
1:I:199:LEU:O	1:I:203:ILE:HD12	2.19	0.43
1:I:349:LEU:HA	1:I:352:ILE:HD13	2.01	0.43
1:K:564:ILE:O	1:K:567:MET:HG2	2.18	0.43
1:M:131:TYR:HH	1:M:167:SER:HG	1.52	0.43
1:M:235:LYS:N	1:M:236:PRO:CD	2.82	0.43
1:M:414:GLN:OE1	1:M:420:ILE:C	2.62	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:518:LEU:CD2	1:M:646:UNK:HA	2.42	0.43
1:M:1237:UNK:C	1:M:1239:UNK:N	2.82	0.43
1:O:46:ASP:CA	1:O:49:ILE:HG22	2.41	0.43
1:O:224:ILE:O	1:O:224:ILE:HD12	2.17	0.43
1:O:349:LEU:HA	1:O:352:ILE:HD13	2.01	0.43
2:P:68:ARG:HH11	2:P:68:ARG:HG3	1.84	0.43
1:Q:305:LEU:HA	1:Q:305:LEU:HD22	1.71	0.43
1:S:117:ASN:ND2	1:S:162:LEU:CD1	2.82	0.43
1:S:835:UNK:C	1:S:836:UNK:H2	2.32	0.43
1:U:88:LEU:CA	1:U:91:PRO:CD	2.97	0.43
1:U:183:LEU:HD23	1:U:183:LEU:HA	1.72	0.43
1:U:260:CYS:O	1:U:262:ILE:HG23	2.19	0.43
1:U:414:GLN:HB2	1:U:415:PRO:HD2	2.00	0.43
2:V:57:GLY:O	2:V:59:PRO:HD2	2.06	0.43
1:W:141:LEU:HD13	1:W:147:VAL:HG23	2.00	0.43
1:W:303:LYS:HD3	1:W:303:LYS:HA	1.70	0.43
1:W:710:UNK:C	1:W:712:UNK:N	2.81	0.43
2:X:82:ARG:HA	2:X:82:ARG:HD2	1.82	0.43
1:Y:19:PHE:CZ	1:Y:92:ILE:HD13	2.28	0.43
1:Y:147:VAL:O	1:Y:263:LEU:HB2	2.18	0.43
1:Y:375:PHE:HD2	1:Y:466:TYR:CE2	2.36	0.43
1:Y:424:SER:O	1:Y:428:GLU:N	2.49	0.43
1:Y:492:LEU:O	1:Y:561:LEU:HD21	2.17	0.43
1:a:247:VAL:HB	1:a:266:THR:OG1	2.18	0.43
1:a:349:LEU:HA	1:a:352:ILE:HD13	2.01	0.43
1:a:1188:UNK:O	1:a:1190:UNK:N	2.51	0.43
1:c:87:PHE:CD1	1:c:87:PHE:N	2.85	0.43
1:c:199:LEU:O	1:c:203:ILE:HD12	2.19	0.43
1:c:235:LYS:N	1:c:236:PRO:CD	2.82	0.43
1:c:322:ARG:HD3	3:c:2000:ADP:H4'	2.00	0.43
1:c:414:GLN:OE1	1:c:420:ILE:C	2.62	0.43
1:c:435:ASN:OD1	1:c:439:LEU:HD11	2.18	0.43
1:c:435:ASN:HD22	1:c:435:ASN:HA	1.56	0.43
1:c:449:ILE:HD11	1:c:467:PHE:HE2	1.83	0.43
2:d:82:ARG:NH1	2:d:82:ARG:CG	2.73	0.43
1:e:117:ASN:ND2	1:e:162:LEU:CD1	2.82	0.43
1:e:128:LEU:HD23	1:e:128:LEU:HA	1.86	0.43
1:e:141:LEU:HD13	1:e:147:VAL:HG23	2.00	0.43
1:e:184:LYS:HD3	1:e:185:ASN:H	1.83	0.43
1:e:303:LYS:HD3	1:e:303:LYS:HA	1.70	0.43
1:e:492:LEU:HD12	1:e:577:ALA:CB	2.48	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:f:26:VAL:CG2	2:f:72:HIS:HB3	2.48	0.43
1:A:12:TYR:HD2	1:A:77:VAL:HG21	1.84	0.43
1:A:87:PHE:CD1	1:A:87:PHE:N	2.85	0.43
1:A:117:ASN:ND2	1:A:162:LEU:CD1	2.82	0.43
1:C:141:LEU:HD13	1:C:147:VAL:HG23	2.00	0.43
1:C:371:ARG:C	1:C:373:SER:N	2.77	0.43
1:C:557:LYS:HE3	1:C:558:TYR:N	2.34	0.43
2:D:68:ARG:HH11	2:D:68:ARG:HG3	1.84	0.43
2:D:105:LEU:HD11	2:Z:105:LEU:CD2	2.46	0.43
1:E:134:LEU:N	1:E:283:ILE:HD11	2.34	0.43
1:E:664:UNK:O	1:E:672:UNK:HA	2.19	0.43
2:F:68:ARG:HG3	2:F:68:ARG:HH11	1.84	0.43
1:G:146:ASN:O	1:G:280:THR:CB	2.47	0.43
1:G:235:LYS:N	1:G:236:PRO:CD	2.82	0.43
1:G:245:LEU:HD23	1:G:245:LEU:HA	1.79	0.43
1:I:12:TYR:HD2	1:I:77:VAL:HG21	1.84	0.43
1:I:117:ASN:ND2	1:I:162:LEU:CD1	2.82	0.43
1:I:235:LYS:N	1:I:236:PRO:CD	2.82	0.43
1:I:835:UNK:C	1:I:836:UNK:H2	2.32	0.43
1:K:117:ASN:ND2	1:K:162:LEU:CD1	2.82	0.43
1:K:166:LEU:C	1:K:166:LEU:CD2	2.86	0.43
1:K:184:LYS:HD3	1:K:185:ASN:H	1.83	0.43
2:L:68:ARG:HH11	2:L:68:ARG:HG3	1.84	0.43
1:M:199:LEU:O	1:M:203:ILE:HD12	2.19	0.43
1:M:322:ARG:HD3	3:M:2000:ADP:H4'	2.00	0.43
2:N:44:LEU:HB3	2:N:48:MET:HB2	2.00	0.43
1:O:87:PHE:CD1	1:O:87:PHE:N	2.85	0.43
1:O:233:LYS:HD2	1:O:233:LYS:H	1.81	0.43
1:O:279:THR:HG23	1:O:280:THR:HG22	1.97	0.43
1:O:375:PHE:HD2	1:O:466:TYR:CE2	2.36	0.43
1:O:421:SER:C	1:O:422:ILE:HD13	2.44	0.43
1:O:1188:UNK:O	1:O:1190:UNK:N	2.51	0.43
1:Q:291:THR:O	1:Q:292:LEU:C	2.58	0.43
1:Q:322:ARG:HD3	3:Q:2000:ADP:H4'	2.00	0.43
1:Q:449:ILE:HD11	1:Q:467:PHE:HE2	1.83	0.43
1:Q:492:LEU:HD12	1:Q:577:ALA:CB	2.48	0.43
2:R:105:LEU:CD2	2:X:105:LEU:HD11	2.46	0.43
1:S:88:LEU:CA	1:S:91:PRO:CD	2.97	0.43
1:S:365:TYR:CZ	1:S:404:LYS:HB3	2.52	0.43
1:S:449:ILE:HD11	1:S:467:PHE:HE2	1.84	0.43
1:S:752:UNK:CB	1:S:826:UNK:O	2.66	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:T:17:HIS:HD2	2:T:109:VAL:HG11	1.77	0.43
1:U:41:SER:O	1:U:42:LYS:C	2.61	0.43
1:U:134:LEU:N	1:U:283:ILE:HD11	2.34	0.43
1:U:322:ARG:HD3	3:U:2000:ADP:H4'	2.00	0.43
1:U:435:ASN:HD22	1:U:435:ASN:HA	1.56	0.43
1:U:664:UNK:O	1:U:672:UNK:HA	2.19	0.43
1:U:835:UNK:C	1:U:836:UNK:H2	2.32	0.43
1:U:1237:UNK:C	1:U:1239:UNK:N	2.82	0.43
2:V:22:LEU:HD11	2:V:77:LEU:CD1	2.34	0.43
1:W:62:PHE:O	1:W:66:LEU:HG	2.18	0.43
1:W:221:ILE:O	1:W:224:ILE:CG2	2.67	0.43
1:W:381:ILE:N	1:W:420:ILE:O	2.48	0.43
1:W:413:LYS:HE2	1:Y:333:ASP:OD1	2.19	0.43
1:W:557:LYS:HE3	1:W:558:TYR:N	2.34	0.43
1:W:580:GLN:HG2	1:W:580:GLN:H	1.70	0.43
1:Y:166:LEU:C	1:Y:166:LEU:CD2	2.85	0.43
1:Y:305:LEU:HA	1:Y:305:LEU:HD22	1.71	0.43
1:Y:322:ARG:HD3	3:Y:2000:ADP:H4'	2.00	0.43
1:Y:414:GLN:OE1	1:Y:420:ILE:C	2.62	0.43
1:Y:449:ILE:HD11	1:Y:467:PHE:HE2	1.83	0.43
1:a:87:PHE:CE1	1:a:88:LEU:HD13	2.54	0.43
1:a:421:SER:C	1:a:422:ILE:HD13	2.44	0.43
1:a:435:ASN:HD22	1:a:435:ASN:HA	1.56	0.43
1:c:360:LEU:HD12	1:c:365:TYR:CB	2.45	0.43
1:c:381:ILE:HA	1:c:382:PRO:HD3	1.77	0.43
1:c:520:GLN:HG2	1:c:524:TYR:HE2	1.84	0.43
1:c:1237:UNK:C	1:c:1239:UNK:N	2.82	0.43
2:d:44:LEU:HB3	2:d:48:MET:HB2	2.00	0.43
1:e:158:THR:HG23	1:e:159:TRP:CD1	2.41	0.43
1:e:207:TRP:HE1	1:e:227:GLU:CB	2.28	0.43
1:e:287:HIS:ND1	1:e:288:HIS:N	2.59	0.43
1:e:353:ILE:HG21	1:e:426:TYR:HA	2.01	0.43
1:A:127:ARG:NH2	1:A:285:LEU:HD22	2.33	0.43
1:A:664:UNK:O	1:A:672:UNK:HA	2.19	0.43
1:A:835:UNK:C	1:A:836:UNK:H2	2.32	0.43
1:A:1098:UNK:C	1:A:1100:UNK:N	2.80	0.43
1:C:62:PHE:O	1:C:66:LEU:HG	2.18	0.43
1:C:221:ILE:O	1:C:224:ILE:CG2	2.67	0.43
1:C:245:LEU:HD23	1:C:245:LEU:HA	1.79	0.43
1:C:246:ASN:OD1	1:C:246:ASN:N	2.51	0.43
1:C:333:ASP:OD1	1:E:413:LYS:HE2	2.19	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:413:LYS:HE2	1:Q:333:ASP:OD1	2.19	0.43
1:C:414:GLN:OE1	1:C:420:ILE:C	2.62	0.43
1:C:580:GLN:HG2	1:C:580:GLN:H	1.70	0.43
1:C:1098:UNK:C	1:C:1100:UNK:N	2.80	0.43
2:D:82:ARG:NH1	2:D:82:ARG:CG	2.73	0.43
1:E:86:LYS:HE3	1:E:89:MET:CE	2.42	0.43
1:E:414:GLN:HB2	1:E:415:PRO:HD2	2.00	0.43
1:E:835:UNK:C	1:E:836:UNK:H2	2.32	0.43
1:G:287:HIS:CG	1:G:288:HIS:H	2.31	0.43
1:G:322:ARG:HD3	3:G:2000:ADP:H4'	2.00	0.43
1:G:382:PRO:HD2	1:G:385:LEU:HD12	2.01	0.43
2:H:68:ARG:HH11	2:H:68:ARG:HG3	1.84	0.43
1:I:304:TYR:CD1	1:I:304:TYR:N	2.81	0.43
1:I:381:ILE:HA	1:I:382:PRO:HD3	1.77	0.43
1:K:110:ARG:HG3	1:K:110:ARG:NH1	2.33	0.43
1:K:158:THR:HG23	1:K:159:TRP:CD1	2.41	0.43
1:K:207:TRP:HE1	1:K:227:GLU:CB	2.28	0.43
1:K:287:HIS:ND1	1:K:288:HIS:N	2.59	0.43
1:K:353:ILE:HG21	1:K:426:TYR:HA	2.01	0.43
1:K:492:LEU:HD12	1:K:577:ALA:CB	2.48	0.43
1:M:87:PHE:CD1	1:M:87:PHE:N	2.85	0.43
1:M:127:ARG:NH2	1:M:285:LEU:HD22	2.33	0.43
1:M:381:ILE:N	1:M:420:ILE:O	2.48	0.43
1:M:410:LEU:HA	1:M:423:PRO:HG2	1.87	0.43
1:M:435:ASN:OD1	1:M:439:LEU:HD11	2.18	0.43
1:M:449:ILE:HD11	1:M:467:PHE:HE2	1.83	0.43
1:M:520:GLN:HG2	1:M:524:TYR:HE2	1.84	0.43
1:O:41:SER:O	1:O:42:LYS:C	2.61	0.43
1:O:87:PHE:CE1	1:O:88:LEU:HD13	2.54	0.43
1:O:110:ARG:HG3	1:O:110:ARG:NH1	2.33	0.43
1:O:188:SER:C	1:O:191:THR:HG23	2.30	0.43
1:O:333:ASP:OD1	1:Q:413:LYS:HE2	2.19	0.43
1:O:492:LEU:HD12	1:O:577:ALA:CB	2.48	0.43
1:Q:62:PHE:O	1:Q:66:LEU:HG	2.18	0.43
1:Q:443:ILE:HD11	1:Q:477:ASN:HB3	2.01	0.43
1:Q:557:LYS:HE3	1:Q:558:TYR:N	2.34	0.43
1:S:110:ARG:HG3	1:S:110:ARG:NH1	2.33	0.43
1:S:146:ASN:O	1:S:280:THR:CB	2.47	0.43
1:S:235:LYS:N	1:S:236:PRO:CD	2.82	0.43
1:S:382:PRO:HD2	1:S:385:LEU:HD12	2.01	0.43
1:U:110:ARG:HG3	1:U:110:ARG:NH1	2.33	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:U:188:SER:C	1:U:191:THR:HG23	2.30	0.43
1:W:12:TYR:HD2	1:W:77:VAL:HG21	1.83	0.43
1:W:246:ASN:OD1	1:W:246:ASN:N	2.51	0.43
1:W:371:ARG:C	1:W:373:SER:N	2.77	0.43
1:W:414:GLN:OE1	1:W:420:ILE:C	2.62	0.43
1:W:488:ARG:CG	1:W:488:ARG:NH1	2.65	0.43
2:X:68:ARG:HH11	2:X:68:ARG:HG3	1.84	0.43
1:Y:12:TYR:CE2	1:Y:92:ILE:CG2	3.01	0.43
1:Y:443:ILE:HD11	1:Y:477:ASN:HB3	2.01	0.43
1:Y:492:LEU:HD12	1:Y:577:ALA:CB	2.48	0.43
1:Y:557:LYS:HE3	1:Y:558:TYR:N	2.34	0.43
1:a:15:ILE:HD11	1:a:95:GLU:O	2.19	0.43
1:a:46:ASP:CA	1:a:49:ILE:HG22	2.41	0.43
1:a:47:HIS:CA	1:a:50:MET:HB2	2.47	0.43
1:a:62:PHE:O	1:a:66:LEU:HG	2.18	0.43
1:a:110:ARG:HG3	1:a:110:ARG:NH1	2.33	0.43
1:a:260:CYS:O	1:a:262:ILE:HG23	2.19	0.43
1:c:518:LEU:CD1	1:c:646:UNK:C	2.90	0.43
2:d:49:LEU:HA	2:d:49:LEU:HD22	1.69	0.43
1:e:82:ARG:HG2	1:e:82:ARG:NH1	2.28	0.43
1:e:87:PHE:CD1	1:e:87:PHE:N	2.85	0.43
1:e:110:ARG:HG3	1:e:110:ARG:NH1	2.33	0.43
1:e:322:ARG:HD3	3:e:2000:ADP:H4'	2.00	0.43
1:e:375:PHE:HB3	1:e:376:PRO:HD2	2.01	0.43
1:e:1188:UNK:O	1:e:1190:UNK:N	2.51	0.43
2:f:68:ARG:HG3	2:f:68:ARG:HH11	1.84	0.43
1:A:141:LEU:HD13	1:A:147:VAL:HG23	2.00	0.43
1:A:302:LEU:HD12	1:A:302:LEU:HA	1.81	0.43
1:C:152:VAL:CG2	1:C:320:ASN:HD21	2.32	0.43
1:C:835:UNK:C	1:C:836:UNK:H2	2.32	0.43
2:D:81:GLN:HA	2:D:81:GLN:NE2	2.08	0.43
1:E:41:SER:O	1:E:42:LYS:C	2.61	0.43
1:E:117:ASN:ND2	1:E:162:LEU:CD1	2.82	0.43
1:E:152:VAL:CG2	1:E:320:ASN:HD21	2.32	0.43
1:E:174:MET:HE3	1:E:174:MET:HB2	1.76	0.43
1:E:327:ILE:HG21	1:E:341:TRP:HZ3	1.77	0.43
1:E:528:ILE:HD13	1:E:529:CYS:N	2.33	0.43
1:E:668:UNK:C	1:E:670:UNK:N	2.81	0.43
1:G:199:LEU:O	1:G:203:ILE:HD12	2.19	0.43
1:G:245:LEU:CD2	1:G:265:THR:CG2	2.96	0.43
1:G:752:UNK:CB	1:G:826:UNK:O	2.66	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:87:PHE:CD1	1:I:87:PHE:N	2.85	0.43
1:I:518:LEU:CD1	1:I:646:UNK:C	2.90	0.43
1:I:664:UNK:O	1:I:672:UNK:HA	2.19	0.43
1:K:134:LEU:N	1:K:283:ILE:HD11	2.34	0.43
1:K:290:MET:HB3	1:K:290:MET:HE2	1.81	0.43
1:K:300:LEU:O	1:K:304:TYR:HE1	2.02	0.43
1:K:375:PHE:HD2	1:K:466:TYR:CE2	2.36	0.43
1:K:375:PHE:HB3	1:K:376:PRO:HD2	2.01	0.43
1:K:1188:UNK:O	1:K:1190:UNK:N	2.51	0.43
1:M:184:LYS:HD3	1:M:185:ASN:H	1.83	0.43
1:M:375:PHE:HD2	1:M:466:TYR:CE2	2.36	0.43
1:M:421:SER:C	1:M:422:ILE:HD13	2.44	0.43
1:M:668:UNK:C	1:M:670:UNK:N	2.81	0.43
1:M:835:UNK:C	1:M:836:UNK:H2	2.32	0.43
2:N:49:LEU:HA	2:N:49:LEU:HD22	1.69	0.43
1:O:15:ILE:HD11	1:O:95:GLU:O	2.19	0.43
1:O:47:HIS:CA	1:O:50:MET:HB2	2.47	0.43
1:O:62:PHE:O	1:O:66:LEU:HG	2.18	0.43
1:O:86:LYS:HE3	1:O:89:MET:CE	2.42	0.43
1:O:260:CYS:O	1:O:262:ILE:HG23	2.19	0.43
1:Q:127:ARG:NH2	1:Q:285:LEU:HD22	2.33	0.43
1:Q:414:GLN:OE1	1:Q:420:ILE:C	2.62	0.43
1:Q:424:SER:O	1:Q:428:GLU:N	2.49	0.43
2:R:68:ARG:HG3	2:R:68:ARG:HH11	1.84	0.43
1:S:245:LEU:CD2	1:S:265:THR:CG2	2.96	0.43
2:T:26:VAL:CG2	2:T:72:HIS:HB3	2.48	0.43
2:T:68:ARG:HH11	2:T:68:ARG:HG3	1.84	0.43
1:U:117:ASN:ND2	1:U:162:LEU:CD1	2.82	0.43
1:U:152:VAL:CG2	1:U:320:ASN:HD21	2.32	0.43
1:U:413:LYS:HE2	1:W:333:ASP:OD1	2.19	0.43
1:U:520:GLN:HG2	1:U:524:TYR:HE2	1.84	0.43
1:U:557:LYS:HE3	1:U:558:TYR:N	2.34	0.43
2:V:68:ARG:HG3	2:V:68:ARG:HH11	1.84	0.43
1:W:152:VAL:CG2	1:W:320:ASN:HD21	2.32	0.43
1:W:183:LEU:HD23	1:W:183:LEU:HA	1.72	0.43
1:Y:62:PHE:O	1:Y:66:LEU:HG	2.18	0.43
1:Y:127:ARG:NH2	1:Y:285:LEU:HD22	2.33	0.43
1:Y:413:LYS:HE2	1:a:333:ASP:OD1	2.19	0.43
1:a:375:PHE:HD2	1:a:466:TYR:CE2	2.36	0.43
1:a:492:LEU:HD12	1:a:577:ALA:CB	2.48	0.43
1:a:835:UNK:C	1:a:836:UNK:H2	2.32	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:c:166:LEU:C	1:c:166:LEU:CD2	2.85	0.43
1:c:421:SER:C	1:c:422:ILE:HD13	2.44	0.43
1:c:1098:UNK:C	1:c:1100:UNK:N	2.80	0.43
1:e:231:LEU:O	1:e:234:SER:CB	2.59	0.43
1:e:732:UNK:C	1:e:734:UNK:N	2.78	0.43
1:A:368:MET:HE1	1:A:386:LEU:CD2	2.49	0.42
1:A:414:GLN:OE1	1:A:420:ILE:C	2.62	0.42
1:A:495:ARG:HH11	1:A:495:ARG:HD2	1.68	0.42
1:C:12:TYR:HD2	1:C:77:VAL:HG21	1.83	0.42
1:E:141:LEU:HD13	1:E:147:VAL:HG23	2.00	0.42
1:E:184:LYS:HD3	1:E:185:ASN:H	1.83	0.42
1:E:207:TRP:HE1	1:E:227:GLU:CB	2.28	0.42
1:E:429:LEU:O	1:E:430:LYS:C	2.62	0.42
1:E:443:ILE:HD11	1:E:477:ASN:HB3	2.01	0.42
1:E:520:GLN:HG2	1:E:524:TYR:HE2	1.84	0.42
1:E:557:LYS:HE3	1:E:558:TYR:N	2.34	0.42
2:F:57:GLY:N	2:F:59:PRO:HD2	2.34	0.42
2:F:57:GLY:O	2:F:59:PRO:HD2	2.06	0.42
1:G:221:ILE:O	1:G:224:ILE:CG2	2.67	0.42
1:G:279:THR:HG23	1:G:280:THR:HG22	1.97	0.42
1:I:127:ARG:NH2	1:I:285:LEU:HD22	2.33	0.42
1:I:141:LEU:HD13	1:I:147:VAL:HG23	2.00	0.42
1:I:245:LEU:CD2	1:I:265:THR:CG2	2.96	0.42
1:I:382:PRO:HD2	1:I:385:LEU:HD12	2.01	0.42
1:I:1098:UNK:C	1:I:1100:UNK:N	2.80	0.42
1:K:87:PHE:CD1	1:K:87:PHE:N	2.85	0.42
1:K:128:LEU:HD23	1:K:128:LEU:HA	1.86	0.42
1:K:184:LYS:HG3	1:K:185:ASN:N	2.35	0.42
1:K:322:ARG:HD3	3:K:2000:ADP:H4'	2.00	0.42
1:K:518:LEU:CD1	1:K:646:UNK:C	2.90	0.42
1:M:1098:UNK:C	1:M:1100:UNK:N	2.80	0.42
1:O:835:UNK:C	1:O:836:UNK:H2	2.32	0.42
2:P:57:GLY:N	2:P:59:PRO:HD2	2.34	0.42
1:Q:12:TYR:CE2	1:Q:92:ILE:CG2	3.01	0.42
1:Q:152:VAL:CG2	1:Q:320:ASN:HD21	2.32	0.42
1:Q:260:CYS:O	1:Q:262:ILE:HG23	2.19	0.42
1:S:199:LEU:O	1:S:203:ILE:HD12	2.19	0.42
1:S:221:ILE:O	1:S:224:ILE:CG2	2.67	0.42
1:S:322:ARG:HD3	3:S:2000:ADP:H4'	2.00	0.42
1:U:86:LYS:HE3	1:U:89:MET:CE	2.42	0.42
1:U:114:TYR:C	1:U:117:ASN:O	2.53	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:U:184:LYS:HD3	1:U:185:ASN:H	1.83	0.42
1:U:207:TRP:HE1	1:U:227:GLU:CB	2.28	0.42
1:U:443:ILE:HD11	1:U:477:ASN:HB3	2.01	0.42
1:U:528:ILE:HD13	1:U:529:CYS:N	2.33	0.42
1:W:233:LYS:HD2	1:W:233:LYS:H	1.81	0.42
1:W:835:UNK:C	1:W:836:UNK:H2	2.32	0.42
2:X:57:GLY:N	2:X:59:PRO:HD2	2.34	0.42
1:Y:15:ILE:HD11	1:Y:95:GLU:O	2.19	0.42
1:Y:152:VAL:CG2	1:Y:320:ASN:HD21	2.32	0.42
1:Y:260:CYS:O	1:Y:262:ILE:HG23	2.19	0.42
1:Y:353:ILE:HG21	1:Y:426:TYR:HA	2.01	0.42
1:Y:371:ARG:C	1:Y:373:SER:N	2.77	0.42
2:Z:68:ARG:HG3	2:Z:68:ARG:HH11	1.84	0.42
1:a:184:LYS:HD3	1:a:185:ASN:H	1.83	0.42
1:a:279:THR:HG23	1:a:280:THR:HG22	1.97	0.42
1:a:375:PHE:HB3	1:a:376:PRO:HD2	2.01	0.42
2:b:22:LEU:CD1	2:b:77:LEU:HD13	2.35	0.42
2:b:57:GLY:N	2:b:59:PRO:HD2	2.34	0.42
1:c:127:ARG:NH2	1:c:285:LEU:HD22	2.33	0.42
1:c:184:LYS:HD3	1:c:185:ASN:H	1.83	0.42
1:c:338:TRP:HA	1:c:338:TRP:HE3	1.78	0.42
1:c:375:PHE:HD2	1:c:466:TYR:CE2	2.36	0.42
1:c:381:ILE:N	1:c:420:ILE:O	2.48	0.42
1:c:835:UNK:C	1:c:836:UNK:H2	2.32	0.42
1:e:62:PHE:O	1:e:66:LEU:HG	2.18	0.42
1:e:134:LEU:N	1:e:283:ILE:HD11	2.34	0.42
1:e:184:LYS:HG3	1:e:185:ASN:N	2.35	0.42
1:A:133:LYS:C	1:A:283:ILE:CD1	2.93	0.42
1:A:245:LEU:CD2	1:A:265:THR:CG2	2.96	0.42
1:A:382:PRO:HD2	1:A:385:LEU:HD12	2.01	0.42
1:A:413:LYS:HE2	1:S:333:ASP:OD1	2.19	0.42
1:A:618:UNK:N	1:A:904:UNK:HA	2.35	0.42
2:B:57:GLY:N	2:B:59:PRO:HD2	2.34	0.42
1:C:12:TYR:CE2	1:C:92:ILE:CG2	3.01	0.42
1:C:192:VAL:CB	1:C:221:ILE:HD12	2.21	0.42
1:C:200:LEU:CD2	1:C:207:TRP:CD1	3.01	0.42
1:C:368:MET:HE1	1:C:386:LEU:CD2	2.49	0.42
2:D:57:GLY:N	2:D:59:PRO:HD2	2.34	0.42
1:E:87:PHE:CE1	1:E:88:LEU:HD13	2.54	0.42
1:E:290:MET:HB3	1:E:290:MET:HE2	1.81	0.42
1:E:322:ARG:HA	1:E:322:ARG:HD2	1.64	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:382:PRO:HD2	1:E:385:LEU:HD12	2.01	0.42
1:G:333:ASP:OD1	1:I:413:LYS:HE2	2.19	0.42
1:G:353:ILE:HG21	1:G:426:TYR:HA	2.01	0.42
1:G:368:MET:HE1	1:G:386:LEU:CD2	2.49	0.42
1:G:414:GLN:OE1	1:G:420:ILE:C	2.62	0.42
1:G:562:LEU:HD12	1:G:577:ALA:O	2.19	0.42
2:H:17:HIS:HD2	2:H:109:VAL:HG11	1.77	0.42
2:H:26:VAL:CG2	2:H:72:HIS:HB3	2.48	0.42
1:I:133:LYS:C	1:I:283:ILE:CD1	2.93	0.42
1:I:221:ILE:O	1:I:224:ILE:CG2	2.67	0.42
1:I:260:CYS:O	1:I:262:ILE:HG23	2.19	0.42
1:I:368:MET:HE1	1:I:386:LEU:CD2	2.49	0.42
1:I:414:GLN:OE1	1:I:420:ILE:C	2.62	0.42
1:I:618:UNK:N	1:I:904:UNK:HA	2.35	0.42
2:J:44:LEU:HB3	2:J:48:MET:HB2	2.00	0.42
2:J:57:GLY:N	2:J:59:PRO:HD2	2.34	0.42
1:K:62:PHE:O	1:K:66:LEU:HG	2.18	0.42
1:M:15:ILE:HD11	1:M:95:GLU:O	2.19	0.42
1:M:62:PHE:O	1:M:66:LEU:HG	2.18	0.42
1:M:186:CYS:C	1:M:191:THR:CG2	2.64	0.42
1:M:375:PHE:HB3	1:M:376:PRO:HD2	2.01	0.42
1:M:377:PRO:HB3	1:M:428:GLU:CG	2.43	0.42
1:M:495:ARG:HH11	1:M:546:LEU:HA	1.84	0.42
1:O:183:LEU:HD23	1:O:183:LEU:HA	1.72	0.42
1:O:184:LYS:HD3	1:O:185:ASN:H	1.83	0.42
1:O:710:UNK:C	1:O:712:UNK:N	2.81	0.42
1:Q:117:ASN:ND2	1:Q:162:LEU:CD1	2.82	0.42
1:Q:371:ARG:C	1:Q:373:SER:N	2.77	0.42
1:S:287:HIS:CG	1:S:288:HIS:H	2.31	0.42
1:S:562:LEU:HD12	1:S:577:ALA:O	2.19	0.42
1:U:141:LEU:HD13	1:U:147:VAL:HG23	2.00	0.42
1:U:235:LYS:N	1:U:236:PRO:CD	2.82	0.42
1:U:382:PRO:HD2	1:U:385:LEU:HD12	2.01	0.42
1:U:414:GLN:OE1	1:U:420:ILE:C	2.62	0.42
1:U:429:LEU:O	1:U:430:LYS:C	2.62	0.42
1:U:668:UNK:C	1:U:670:UNK:N	2.81	0.42
2:V:57:GLY:N	2:V:59:PRO:HD2	2.34	0.42
1:W:200:LEU:CD2	1:W:207:TRP:CD1	3.01	0.42
1:W:212:ASP:CB	1:W:220:ARG:HH11	2.18	0.42
1:W:322:ARG:HA	1:W:322:ARG:HD2	1.64	0.42
1:W:353:ILE:HG23	1:W:426:TYR:CD2	2.54	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:W:368:MET:HE1	1:W:386:LEU:CD2	2.49	0.42
1:W:492:LEU:HD23	1:W:492:LEU:HA	1.85	0.42
1:W:1098:UNK:C	1:W:1100:UNK:N	2.80	0.42
1:Y:117:ASN:ND2	1:Y:162:LEU:CD1	2.82	0.42
1:Y:233:LYS:HD2	1:Y:233:LYS:H	1.81	0.42
1:Y:302:LEU:HD12	1:Y:302:LEU:HA	1.81	0.42
1:a:86:LYS:HE3	1:a:89:MET:CE	2.42	0.42
1:a:321:PRO:O	1:a:325:SER:OG	2.35	0.42
1:a:368:MET:HE1	1:a:386:LEU:CD2	2.49	0.42
1:a:562:LEU:HD12	1:a:577:ALA:O	2.19	0.42
1:c:15:ILE:HD11	1:c:95:GLU:O	2.19	0.42
1:c:87:PHE:CE1	1:c:88:LEU:HD13	2.54	0.42
1:c:303:LYS:HA	1:c:303:LYS:HD3	1.70	0.42
1:c:495:ARG:HH11	1:c:546:LEU:HA	1.84	0.42
1:c:668:UNK:C	1:c:670:UNK:N	2.81	0.42
2:d:78:LYS:HD3	2:d:78:LYS:HA	1.94	0.42
1:e:243:VAL:CG1	1:e:263:LEU:CG	2.73	0.42
1:e:375:PHE:HD2	1:e:466:TYR:CE2	2.36	0.42
1:e:405:LEU:HD22	1:e:405:LEU:HA	1.90	0.42
1:e:835:UNK:C	1:e:836:UNK:H2	2.32	0.42
1:A:221:ILE:O	1:A:224:ILE:CG2	2.67	0.42
1:A:260:CYS:O	1:A:262:ILE:HG23	2.19	0.42
1:A:375:PHE:HD2	1:A:466:TYR:CE2	2.36	0.42
1:A:518:LEU:CD1	1:A:646:UNK:C	2.90	0.42
2:B:44:LEU:HB3	2:B:48:MET:HB2	2.00	0.42
1:C:233:LYS:HD2	1:C:233:LYS:H	1.81	0.42
1:C:353:ILE:HG23	1:C:426:TYR:CD2	2.54	0.42
1:C:377:PRO:HB3	1:C:428:GLU:CG	2.43	0.42
1:C:528:ILE:HD13	1:C:529:CYS:N	2.33	0.42
1:E:12:TYR:HD2	1:E:77:VAL:HG21	1.84	0.42
1:E:229:ARG:O	1:E:233:LYS:HD3	2.14	0.42
1:E:235:LYS:N	1:E:236:PRO:CD	2.82	0.42
1:E:421:SER:C	1:E:422:ILE:HD13	2.44	0.42
1:G:184:LYS:HG3	1:G:185:ASN:N	2.35	0.42
1:G:371:ARG:C	1:G:373:SER:H	2.28	0.42
1:I:118:GLN:HE21	1:K:279:THR:CG2	2.15	0.42
1:K:52:LYS:CD	1:K:53:ASP:CG	2.85	0.42
1:K:260:CYS:O	1:K:262:ILE:HG23	2.19	0.42
1:K:732:UNK:C	1:K:734:UNK:N	2.78	0.42
1:K:835:UNK:C	1:K:836:UNK:H2	2.32	0.42
1:M:87:PHE:CE1	1:M:88:LEU:HD13	2.54	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:166:LEU:C	1:M:166:LEU:CD2	2.85	0.42
1:M:279:THR:O	1:M:280:THR:CB	2.65	0.42
1:M:333:ASP:OD1	1:O:413:LYS:HE2	2.19	0.42
1:O:353:ILE:HG23	1:O:426:TYR:CD2	2.54	0.42
1:O:368:MET:HE1	1:O:386:LEU:CD2	2.49	0.42
1:O:375:PHE:HB3	1:O:376:PRO:HD2	2.01	0.42
1:O:520:GLN:HG2	1:O:524:TYR:HE2	1.84	0.42
1:O:562:LEU:HD12	1:O:577:ALA:O	2.19	0.42
1:Q:12:TYR:HD2	1:Q:77:VAL:HG21	1.84	0.42
1:Q:15:ILE:HD11	1:Q:95:GLU:O	2.19	0.42
1:Q:233:LYS:HD2	1:Q:233:LYS:H	1.81	0.42
1:Q:353:ILE:HG21	1:Q:426:TYR:HA	2.01	0.42
1:Q:375:PHE:HB3	1:Q:376:PRO:HD2	2.01	0.42
1:Q:381:ILE:N	1:Q:420:ILE:O	2.48	0.42
1:S:184:LYS:HG3	1:S:185:ASN:N	2.35	0.42
1:S:237:TYR:CD1	1:S:237:TYR:N	2.80	0.42
1:S:353:ILE:HG21	1:S:426:TYR:HA	2.01	0.42
1:S:368:MET:HE1	1:S:386:LEU:CD2	2.49	0.42
1:S:371:ARG:C	1:S:373:SER:H	2.28	0.42
1:S:414:GLN:OE1	1:S:420:ILE:C	2.62	0.42
1:S:422:ILE:CG2	1:S:427:LEU:HD12	2.46	0.42
1:U:12:TYR:HD2	1:U:77:VAL:HG21	1.84	0.42
1:U:87:PHE:CE1	1:U:88:LEU:HD13	2.54	0.42
1:U:127:ARG:NH2	1:U:285:LEU:HD22	2.33	0.42
1:U:229:ARG:O	1:U:233:LYS:HD3	2.14	0.42
1:U:405:LEU:O	1:U:406:HIS:C	2.61	0.42
1:U:421:SER:C	1:U:422:ILE:HD13	2.44	0.42
1:W:12:TYR:CE2	1:W:92:ILE:CG2	3.01	0.42
1:W:184:LYS:HD3	1:W:185:ASN:H	1.83	0.42
1:W:528:ILE:HD13	1:W:529:CYS:N	2.33	0.42
2:X:82:ARG:NH1	2:X:82:ARG:CG	2.73	0.42
1:Y:184:LYS:HD3	1:Y:185:ASN:H	1.83	0.42
1:a:117:ASN:ND2	1:a:162:LEU:CD1	2.82	0.42
1:a:353:ILE:HG23	1:a:426:TYR:CD2	2.54	0.42
1:a:413:LYS:HE2	1:c:333:ASP:OD1	2.19	0.42
1:c:41:SER:O	1:c:42:LYS:C	2.61	0.42
1:c:62:PHE:O	1:c:66:LEU:HG	2.18	0.42
1:c:110:ARG:HG3	1:c:110:ARG:NH1	2.33	0.42
1:c:377:PRO:HB3	1:c:428:GLU:CG	2.43	0.42
2:d:57:GLY:N	2:d:59:PRO:HD2	2.34	0.42
1:e:52:LYS:CD	1:e:53:ASP:CG	2.85	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:e:260:CYS:O	1:e:262:ILE:HG23	2.19	0.42
1:e:414:GLN:HB2	1:e:415:PRO:HD2	2.00	0.42
1:e:710:UNK:C	1:e:712:UNK:N	2.81	0.42
1:A:178:ILE:HG23	1:A:241:LEU:HB3	2.02	0.42
1:A:301:LEU:C	1:A:301:LEU:CD1	2.86	0.42
1:A:567:MET:HE2	1:A:567:MET:HB3	1.96	0.42
2:B:68:ARG:HG3	2:B:68:ARG:HH11	1.84	0.42
1:C:184:LYS:HG3	1:C:185:ASN:N	2.35	0.42
1:C:184:LYS:HD3	1:C:185:ASN:H	1.83	0.42
1:E:86:LYS:HD2	1:E:86:LYS:HA	1.53	0.42
1:E:233:LYS:HD2	1:E:233:LYS:H	1.81	0.42
1:E:274:PHE:CD2	1:E:275:LEU:CD1	3.03	0.42
1:E:303:LYS:HD3	1:E:303:LYS:HA	1.70	0.42
1:E:414:GLN:OE1	1:E:420:ILE:C	2.62	0.42
1:G:12:TYR:HD2	1:G:77:VAL:HG21	1.83	0.42
1:G:193:LEU:O	1:G:197:GLN:N	2.50	0.42
1:G:269:LYS:O	1:G:269:LYS:HD3	2.20	0.42
1:G:375:PHE:HB3	1:G:376:PRO:HD2	2.01	0.42
1:G:443:ILE:HD11	1:G:477:ASN:HB3	2.01	0.42
1:I:178:ILE:HG23	1:I:241:LEU:HB3	2.02	0.42
1:I:301:LEU:C	1:I:301:LEU:CD1	2.86	0.42
1:I:302:LEU:HD12	1:I:302:LEU:HA	1.81	0.42
1:I:562:LEU:HD12	1:I:577:ALA:O	2.19	0.42
2:J:68:ARG:HG3	2:J:68:ARG:HH11	1.84	0.42
1:K:14:ASP:OD1	1:K:110:ARG:NE	2.53	0.42
1:K:221:ILE:O	1:K:224:ILE:CG2	2.67	0.42
1:K:231:LEU:O	1:K:234:SER:CB	2.59	0.42
1:K:235:LYS:N	1:K:236:PRO:CD	2.82	0.42
1:K:414:GLN:HB2	1:K:415:PRO:HD2	2.00	0.42
1:M:41:SER:O	1:M:42:LYS:C	2.61	0.42
1:M:106:TYR:HE1	1:M:110:ARG:HB2	1.85	0.42
1:M:110:ARG:HG3	1:M:110:ARG:NH1	2.33	0.42
1:M:188:SER:C	1:M:191:THR:HG23	2.30	0.42
1:M:338:TRP:HA	1:M:338:TRP:HE3	1.78	0.42
1:M:381:ILE:HA	1:M:382:PRO:HD3	1.77	0.42
2:N:57:GLY:N	2:N:59:PRO:HD2	2.34	0.42
2:N:78:LYS:HD3	2:N:78:LYS:HA	1.94	0.42
2:N:91:ILE:HD13	2:N:107:GLU:HB2	2.02	0.42
1:O:117:ASN:ND2	1:O:162:LEU:CD1	2.82	0.42
1:O:152:VAL:CG2	1:O:320:ASN:HD21	2.32	0.42
1:O:184:LYS:HG3	1:O:185:ASN:N	2.35	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Q:184:LYS:HD3	1:Q:185:ASN:H	1.83	0.42
1:S:152:VAL:CG2	1:S:320:ASN:HD21	2.32	0.42
1:S:174:MET:HE3	1:S:174:MET:HB2	1.76	0.42
1:S:193:LEU:O	1:S:197:GLN:N	2.50	0.42
1:S:269:LYS:O	1:S:269:LYS:HD3	2.20	0.42
1:S:279:THR:HG23	1:S:280:THR:HG22	1.97	0.42
1:S:375:PHE:HB3	1:S:376:PRO:HD2	2.01	0.42
1:S:424:SER:C	1:S:427:LEU:HB3	2.42	0.42
1:S:495:ARG:HH11	1:S:546:LEU:HA	1.84	0.42
1:W:117:ASN:ND2	1:W:162:LEU:CD1	2.82	0.42
1:W:184:LYS:HG3	1:W:185:ASN:N	2.35	0.42
1:W:244:LEU:HB3	1:W:247:VAL:HG22	2.02	0.42
1:W:245:LEU:HD23	1:W:245:LEU:HA	1.79	0.42
1:W:377:PRO:HB3	1:W:428:GLU:CG	2.43	0.42
1:W:1237:UNK:C	1:W:1239:UNK:N	2.82	0.42
1:Y:375:PHE:HB3	1:Y:376:PRO:HD2	2.01	0.42
1:Y:492:LEU:HD23	1:Y:492:LEU:HA	1.85	0.42
1:a:88:LEU:CA	1:a:91:PRO:HD2	2.39	0.42
1:a:134:LEU:N	1:a:283:ILE:HD11	2.34	0.42
1:a:188:SER:C	1:a:191:THR:HG23	2.30	0.42
1:a:710:UNK:C	1:a:712:UNK:N	2.81	0.42
1:c:106:TYR:HE1	1:c:110:ARG:HB2	1.85	0.42
1:c:183:LEU:HD23	1:c:183:LEU:HA	1.72	0.42
1:c:357:LEU:HD23	1:c:357:LEU:HA	1.88	0.42
1:c:375:PHE:HB3	1:c:376:PRO:HD2	2.01	0.42
2:d:91:ILE:HD13	2:d:107:GLU:HB2	2.02	0.42
1:e:235:LYS:N	1:e:236:PRO:CD	2.82	0.42
1:e:290:MET:HB3	1:e:290:MET:HE2	1.81	0.42
1:e:374:VAL:CG2	1:e:375:PHE:N	2.82	0.42
2:f:44:LEU:HB3	2:f:48:MET:HB2	2.00	0.42
1:A:174:MET:HE3	1:A:174:MET:HB2	1.76	0.42
1:A:562:LEU:HD12	1:A:577:ALA:O	2.19	0.42
1:C:117:ASN:ND2	1:C:162:LEU:CD1	2.82	0.42
1:C:158:THR:HG23	1:C:159:TRP:CD1	2.41	0.42
1:C:212:ASP:CB	1:C:220:ARG:HH11	2.18	0.42
1:C:244:LEU:HB3	1:C:247:VAL:HG22	2.02	0.42
1:C:520:GLN:HG2	1:C:524:TYR:HE2	1.84	0.42
1:C:1237:UNK:C	1:C:1239:UNK:N	2.82	0.42
1:E:127:ARG:NH2	1:E:285:LEU:HD22	2.33	0.42
1:E:183:LEU:HD23	1:E:183:LEU:HA	1.72	0.42
1:E:200:LEU:CD2	1:E:207:TRP:CD1	3.01	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:269:LYS:O	1:E:269:LYS:HD3	2.20	0.42
1:E:405:LEU:O	1:E:406:HIS:C	2.61	0.42
1:G:87:PHE:CE1	1:G:88:LEU:HD13	2.54	0.42
1:G:141:LEU:HD13	1:G:147:VAL:HG23	2.00	0.42
1:G:152:VAL:CG2	1:G:320:ASN:HD21	2.32	0.42
1:G:274:PHE:CD2	1:G:275:LEU:CD1	3.03	0.42
1:G:422:ILE:CG2	1:G:427:LEU:HD12	2.46	0.42
1:G:424:SER:C	1:G:427:LEU:HB3	2.42	0.42
1:G:495:ARG:HH11	1:G:546:LEU:HA	1.84	0.42
1:I:371:ARG:C	1:I:373:SER:H	2.28	0.42
1:K:106:TYR:HE1	1:K:110:ARG:HB2	1.85	0.42
1:K:374:VAL:CG2	1:K:375:PHE:N	2.82	0.42
1:K:381:ILE:HD13	1:K:386:LEU:HD12	2.02	0.42
1:K:405:LEU:HD22	1:K:405:LEU:HA	1.90	0.42
1:K:429:LEU:O	1:K:430:LYS:C	2.62	0.42
1:K:495:ARG:HH11	1:K:546:LEU:HA	1.84	0.42
1:K:557:LYS:HE2	1:K:558:TYR:H	1.85	0.42
1:K:710:UNK:C	1:K:712:UNK:N	2.81	0.42
2:L:44:LEU:HB3	2:L:48:MET:HB2	2.00	0.42
2:L:91:ILE:HD13	2:L:107:GLU:HB2	2.02	0.42
1:M:29:CYS:HA	1:M:32:VAL:CG2	2.41	0.42
1:M:232:LEU:HA	1:M:237:TYR:CD2	2.55	0.42
1:M:260:CYS:O	1:M:262:ILE:HG23	2.19	0.42
1:M:368:MET:HE1	1:M:386:LEU:CD2	2.49	0.42
1:M:429:LEU:O	1:M:430:LYS:C	2.62	0.42
1:M:557:LYS:HE2	1:M:558:TYR:H	1.85	0.42
1:O:134:LEU:N	1:O:283:ILE:HD11	2.34	0.42
1:O:483:ARG:NH2	1:O:528:ILE:HA	2.35	0.42
2:P:22:LEU:CD1	2:P:77:LEU:HD13	2.35	0.42
1:Q:134:LEU:N	1:Q:283:ILE:HD11	2.34	0.42
1:Q:421:SER:C	1:Q:422:ILE:HD13	2.44	0.42
1:S:12:TYR:HD2	1:S:77:VAL:HG21	1.83	0.42
1:S:141:LEU:HD13	1:S:147:VAL:HG23	2.00	0.42
1:S:245:LEU:HD23	1:S:245:LEU:HA	1.79	0.42
1:S:274:PHE:CD2	1:S:275:LEU:CD1	3.03	0.42
1:S:557:LYS:HE3	1:S:558:TYR:N	2.34	0.42
1:U:87:PHE:CD1	1:U:88:LEU:HD13	2.54	0.42
1:U:200:LEU:CD2	1:U:207:TRP:CD1	3.01	0.42
1:U:269:LYS:O	1:U:269:LYS:HD3	2.20	0.42
1:U:274:PHE:CD2	1:U:275:LEU:CD1	3.03	0.42
1:U:580:GLN:HG2	1:U:580:GLN:H	1.70	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:W:274:PHE:CD2	1:W:275:LEU:CD1	3.03	0.42
1:Y:12:TYR:HD2	1:Y:77:VAL:HG21	1.84	0.42
1:Y:246:ASN:N	1:Y:246:ASN:OD1	2.51	0.42
1:Y:421:SER:C	1:Y:422:ILE:HD13	2.44	0.42
1:a:152:VAL:CG2	1:a:320:ASN:HD21	2.32	0.42
1:a:184:LYS:HG3	1:a:185:ASN:N	2.35	0.42
1:a:520:GLN:HG2	1:a:524:TYR:HE2	1.84	0.42
1:c:14:ASP:OD1	1:c:110:ARG:NE	2.53	0.42
1:c:29:CYS:HA	1:c:32:VAL:CG2	2.41	0.42
1:c:132:LEU:HD12	1:c:132:LEU:HA	1.80	0.42
1:c:279:THR:O	1:c:280:THR:CB	2.65	0.42
1:c:300:LEU:O	1:c:304:TYR:HE1	2.02	0.42
1:c:429:LEU:O	1:c:430:LYS:C	2.62	0.42
1:c:501:ILE:C	1:c:503:HIS:H	2.28	0.42
1:c:557:LYS:HE2	1:c:558:TYR:H	1.85	0.42
1:e:14:ASP:OD1	1:e:110:ARG:NE	2.53	0.42
1:e:106:TYR:HE1	1:e:110:ARG:HB2	1.85	0.42
1:e:221:ILE:O	1:e:224:ILE:CG2	2.67	0.42
1:e:229:ARG:NH2	1:e:229:ARG:CG	2.81	0.42
1:e:381:ILE:HD13	1:e:386:LEU:HD12	2.02	0.42
1:e:429:LEU:O	1:e:430:LYS:C	2.62	0.42
1:e:518:LEU:CD1	1:e:646:UNK:C	2.90	0.42
1:e:1216:UNK:O	1:e:1217:UNK:C	2.68	0.42
1:A:87:PHE:CE1	1:A:88:LEU:HD13	2.54	0.42
1:A:322:ARG:HD3	3:A:2000:ADP:H4'	2.00	0.42
1:A:372:LEU:O	1:A:373:SER:C	2.63	0.42
1:A:404:LYS:HA	1:A:404:LYS:CE	2.40	0.42
1:C:87:PHE:CE1	1:C:88:LEU:HD13	2.54	0.42
1:C:274:PHE:CD2	1:C:275:LEU:CD1	3.03	0.42
1:C:449:ILE:HD11	1:C:467:PHE:HE2	1.84	0.42
1:C:664:UNK:O	1:C:672:UNK:HA	2.19	0.42
1:E:14:ASP:OD1	1:E:110:ARG:NE	2.53	0.42
1:E:87:PHE:CD1	1:E:88:LEU:HD13	2.54	0.42
1:E:106:TYR:HE1	1:E:110:ARG:HB2	1.85	0.42
1:E:166:LEU:C	1:E:166:LEU:CD2	2.85	0.42
1:E:196:LEU:HD12	1:E:224:ILE:HG13	2.02	0.42
1:E:580:GLN:HG2	1:E:580:GLN:H	1.70	0.42
1:G:106:TYR:HE1	1:G:110:ARG:HB2	1.85	0.42
1:G:557:LYS:HE3	1:G:558:TYR:N	2.34	0.42
2:H:91:ILE:HD13	2:H:107:GLU:HB2	2.02	0.42
1:I:15:ILE:HD11	1:I:95:GLU:O	2.19	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:106:TYR:HE1	1:I:110:ARG:HB2	1.85	0.42
1:I:322:ARG:HD3	3:I:2000:ADP:H4'	2.00	0.42
1:I:372:LEU:O	1:I:373:SER:C	2.63	0.42
1:I:375:PHE:HB3	1:I:376:PRO:HD2	2.01	0.42
1:K:152:VAL:CG2	1:K:320:ASN:HD21	2.32	0.42
1:K:501:ILE:C	1:K:503:HIS:H	2.28	0.42
1:K:1216:UNK:O	1:K:1217:UNK:C	2.68	0.42
2:L:57:GLY:N	2:L:59:PRO:HD2	2.34	0.42
1:M:14:ASP:OD1	1:M:110:ARG:NE	2.53	0.42
1:M:46:ASP:CA	1:M:49:ILE:HG22	2.41	0.42
1:M:117:ASN:ND2	1:M:162:LEU:CD1	2.82	0.42
1:M:242:LEU:HD22	1:M:262:ILE:HG22	2.01	0.42
1:M:244:LEU:HB3	1:M:247:VAL:HG22	2.02	0.42
1:M:303:LYS:HA	1:M:303:LYS:HD3	1.70	0.42
1:M:381:ILE:HD13	1:M:386:LEU:HD12	2.02	0.42
1:M:501:ILE:C	1:M:503:HIS:H	2.28	0.42
1:O:48:ILE:HD13	1:O:61:LEU:CA	2.34	0.42
1:O:235:LYS:N	1:O:236:PRO:CD	2.82	0.42
1:O:322:ARG:HD3	3:O:2000:ADP:H4'	2.00	0.42
1:O:1188:UNK:C	1:O:1190:UNK:N	2.83	0.42
1:Q:302:LEU:HD12	1:Q:302:LEU:HA	1.81	0.42
1:Q:374:VAL:CG2	1:Q:375:PHE:N	2.82	0.42
1:Q:483:ARG:NH2	1:Q:528:ILE:HA	2.35	0.42
1:S:106:TYR:HE1	1:S:110:ARG:HB2	1.85	0.42
1:S:443:ILE:HD11	1:S:477:ASN:HB3	2.01	0.42
2:T:44:LEU:HB3	2:T:48:MET:HB2	2.00	0.42
1:U:14:ASP:OD1	1:U:110:ARG:NE	2.53	0.42
1:U:106:TYR:HE1	1:U:110:ARG:HB2	1.85	0.42
1:U:166:LEU:C	1:U:166:LEU:CD2	2.85	0.42
1:U:196:LEU:HD12	1:U:224:ILE:HG13	2.02	0.42
1:U:562:LEU:HD12	1:U:577:ALA:O	2.19	0.42
1:W:87:PHE:CD1	1:W:88:LEU:HD13	2.54	0.42
1:W:87:PHE:CE1	1:W:88:LEU:HD13	2.54	0.42
1:W:322:ARG:HD3	3:W:2000:ADP:H4'	2.00	0.42
1:W:664:UNK:O	1:W:672:UNK:HA	2.19	0.42
2:X:91:ILE:HD13	2:X:107:GLU:HB2	2.02	0.42
1:Y:134:LEU:N	1:Y:283:ILE:HD11	2.34	0.42
1:Y:374:VAL:CG2	1:Y:375:PHE:N	2.82	0.42
1:Y:381:ILE:N	1:Y:420:ILE:O	2.48	0.42
1:Y:483:ARG:NH2	1:Y:528:ILE:HA	2.35	0.42
1:Y:618:UNK:N	1:Y:904:UNK:HA	2.35	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:a:483:ARG:NH2	1:a:528:ILE:HA	2.35	0.42
1:c:178:ILE:HG23	1:c:241:LEU:HB3	2.02	0.42
1:c:232:LEU:HA	1:c:237:TYR:CD2	2.55	0.42
1:c:242:LEU:HD22	1:c:262:ILE:HG22	2.01	0.42
1:c:244:LEU:HB3	1:c:247:VAL:HG22	2.02	0.42
1:c:260:CYS:O	1:c:262:ILE:HG23	2.19	0.42
1:c:368:MET:HE1	1:c:386:LEU:CD2	2.49	0.42
1:c:381:ILE:HD13	1:c:386:LEU:HD12	2.02	0.42
1:e:132:LEU:HD12	1:e:132:LEU:HA	1.80	0.42
1:e:200:LEU:CD2	1:e:207:TRP:CD1	3.01	0.42
1:e:291:THR:O	1:e:292:LEU:C	2.58	0.42
1:e:501:ILE:C	1:e:503:HIS:H	2.28	0.42
1:e:557:LYS:HE2	1:e:558:TYR:H	1.85	0.42
2:f:91:ILE:HD13	2:f:107:GLU:HB2	2.02	0.42
1:A:15:ILE:HD11	1:A:95:GLU:O	2.19	0.42
1:A:48:ILE:CD1	1:A:61:LEU:CD1	2.98	0.42
1:A:106:TYR:HE1	1:A:110:ARG:HB2	1.85	0.42
1:A:327:ILE:HG21	1:A:341:TRP:HZ3	1.77	0.42
1:A:333:ASP:OD1	1:e:413:LYS:HE2	2.19	0.42
1:A:353:ILE:HG21	1:A:426:TYR:HA	2.01	0.42
1:A:371:ARG:C	1:A:373:SER:H	2.28	0.42
1:A:374:VAL:CG2	1:A:375:PHE:N	2.82	0.42
1:A:375:PHE:HB3	1:A:376:PRO:HD2	2.01	0.42
1:A:520:GLN:HG2	1:A:524:TYR:HE2	1.84	0.42
1:A:1216:UNK:O	1:A:1217:UNK:C	2.68	0.42
2:B:91:ILE:HD13	2:B:107:GLU:HB2	2.02	0.42
1:C:48:ILE:CD1	1:C:61:LEU:CD1	2.98	0.42
1:C:235:LYS:N	1:C:236:PRO:CD	2.82	0.42
1:C:243:VAL:C	1:C:244:LEU:O	2.55	0.42
1:C:322:ARG:HD3	3:C:2000:ADP:H4'	2.00	0.42
1:C:374:VAL:CG2	1:C:375:PHE:N	2.82	0.42
1:C:492:LEU:HD23	1:C:492:LEU:HA	1.85	0.42
2:D:91:ILE:HD13	2:D:107:GLU:HB2	2.02	0.42
1:E:48:ILE:CD1	1:E:61:LEU:CD1	2.98	0.42
1:E:248:GLN:O	1:E:268:PHE:CZ	2.73	0.42
1:E:333:ASP:OD1	1:G:413:LYS:HE2	2.19	0.42
1:E:562:LEU:HD12	1:E:577:ALA:O	2.19	0.42
2:F:77:LEU:HA	2:F:77:LEU:HD12	1.80	0.42
1:G:114:TYR:C	1:G:117:ASN:O	2.53	0.42
1:G:178:ILE:HG23	1:G:241:LEU:HB3	2.02	0.42
1:G:300:LEU:O	1:G:304:TYR:HE1	2.02	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:44:LEU:HB3	2:H:48:MET:HB2	2.00	0.42
1:I:48:ILE:CD1	1:I:61:LEU:CD1	2.98	0.42
1:I:62:PHE:O	1:I:66:LEU:HG	2.18	0.42
1:I:87:PHE:CE1	1:I:88:LEU:HD13	2.54	0.42
1:I:152:VAL:CG2	1:I:320:ASN:HD21	2.32	0.42
1:I:300:LEU:O	1:I:304:TYR:HE1	2.02	0.42
1:I:365:TYR:CZ	1:I:404:LYS:HB3	2.52	0.42
1:I:374:VAL:CG2	1:I:375:PHE:N	2.82	0.42
1:I:381:ILE:HD13	1:I:386:LEU:HD12	2.02	0.42
1:I:495:ARG:HH11	1:I:495:ARG:HD2	1.68	0.42
1:I:501:ILE:C	1:I:503:HIS:H	2.28	0.42
1:I:567:MET:HE2	1:I:567:MET:HB3	1.96	0.42
2:J:91:ILE:HD13	2:J:107:GLU:HB2	2.02	0.42
1:K:132:LEU:HD12	1:K:132:LEU:HA	1.80	0.42
1:K:229:ARG:NH2	1:K:229:ARG:CG	2.81	0.42
1:K:243:VAL:CG1	1:K:263:LEU:CG	2.73	0.42
1:K:305:LEU:HD22	1:K:305:LEU:HA	1.71	0.42
1:K:382:PRO:HD2	1:K:385:LEU:HD12	2.01	0.42
1:K:443:ILE:HD11	1:K:477:ASN:HB3	2.01	0.42
1:M:132:LEU:HD12	1:M:132:LEU:HA	1.80	0.42
1:M:134:LEU:N	1:M:283:ILE:HD11	2.34	0.42
1:M:178:ILE:HG23	1:M:241:LEU:HB3	2.02	0.42
1:M:300:LEU:O	1:M:304:TYR:HE1	2.02	0.42
1:M:374:VAL:CG2	1:M:375:PHE:N	2.82	0.42
1:M:483:ARG:NH2	1:M:528:ILE:HA	2.35	0.42
1:M:1216:UNK:O	1:M:1217:UNK:C	2.68	0.42
1:O:449:ILE:HD11	1:O:467:PHE:HE2	1.84	0.42
1:O:557:LYS:HE2	1:O:558:TYR:H	1.85	0.42
1:Q:188:SER:C	1:Q:191:THR:HG23	2.30	0.42
1:Q:235:LYS:N	1:Q:236:PRO:CD	2.82	0.42
1:Q:246:ASN:N	1:Q:246:ASN:OD1	2.51	0.42
1:Q:248:GLN:O	1:Q:268:PHE:CZ	2.73	0.42
1:Q:382:PRO:HD2	1:Q:385:LEU:HD12	2.01	0.42
1:Q:618:UNK:N	1:Q:904:UNK:HA	2.35	0.42
1:Q:710:UNK:C	1:Q:712:UNK:N	2.81	0.42
1:Q:1237:UNK:C	1:Q:1239:UNK:N	2.82	0.42
1:S:14:ASP:OD1	1:S:110:ARG:NE	2.53	0.42
1:S:87:PHE:CE1	1:S:88:LEU:HD13	2.54	0.42
1:S:114:TYR:C	1:S:117:ASN:O	2.53	0.42
1:S:203:ILE:HG21	1:S:231:LEU:CD2	2.46	0.42
2:T:91:ILE:HD13	2:T:107:GLU:HB2	2.02	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:U:24:VAL:O	1:U:24:VAL:HG12	2.20	0.42
1:U:48:ILE:CD1	1:U:61:LEU:CD1	2.98	0.42
1:U:233:LYS:HD2	1:U:233:LYS:H	1.81	0.42
1:U:248:GLN:O	1:U:268:PHE:CZ	2.73	0.42
1:U:388:LEU:H	1:U:388:LEU:CD2	2.28	0.42
1:U:424:SER:O	1:U:428:GLU:N	2.49	0.42
2:V:91:ILE:HD13	2:V:107:GLU:HB2	2.02	0.42
1:W:15:ILE:HD11	1:W:95:GLU:O	2.19	0.42
1:W:48:ILE:CD1	1:W:61:LEU:CD1	2.98	0.42
1:W:235:LYS:N	1:W:236:PRO:CD	2.82	0.42
1:W:248:GLN:O	1:W:268:PHE:CZ	2.73	0.42
1:W:375:PHE:HB3	1:W:376:PRO:HD2	2.01	0.42
1:W:449:ILE:HD11	1:W:467:PHE:HE2	1.84	0.42
1:W:520:GLN:HG2	1:W:524:TYR:HE2	1.84	0.42
1:W:668:UNK:C	1:W:670:UNK:N	2.81	0.42
1:Y:184:LYS:HG3	1:Y:185:ASN:N	2.35	0.42
1:Y:248:GLN:O	1:Y:268:PHE:CZ	2.73	0.42
1:Y:382:PRO:HD2	1:Y:385:LEU:HD12	2.01	0.42
1:Y:404:LYS:HE2	1:Y:404:LYS:CA	2.41	0.42
1:Y:710:UNK:C	1:Y:712:UNK:N	2.81	0.42
1:Y:1188:UNK:C	1:Y:1190:UNK:N	2.83	0.42
1:Y:1237:UNK:C	1:Y:1239:UNK:N	2.82	0.42
1:a:235:LYS:N	1:a:236:PRO:CD	2.82	0.42
1:a:322:ARG:HD3	3:a:2000:ADP:H4'	2.00	0.42
1:a:449:ILE:HD11	1:a:467:PHE:HE2	1.84	0.42
1:a:501:ILE:C	1:a:503:HIS:H	2.28	0.42
1:a:557:LYS:HE2	1:a:558:TYR:H	1.85	0.42
1:a:618:UNK:N	1:a:904:UNK:HA	2.35	0.42
1:a:1188:UNK:C	1:a:1190:UNK:N	2.83	0.42
1:c:117:ASN:ND2	1:c:162:LEU:CD1	2.82	0.42
1:c:131:TYR:HH	1:c:167:SER:HG	1.53	0.42
1:c:1216:UNK:O	1:c:1217:UNK:C	2.68	0.42
1:e:152:VAL:CG2	1:e:320:ASN:HD21	2.32	0.42
1:e:199:LEU:O	1:e:203:ILE:HD12	2.19	0.42
1:e:382:PRO:HD2	1:e:385:LEU:HD12	2.01	0.42
1:e:495:ARG:HH11	1:e:546:LEU:HA	1.84	0.42
1:A:62:PHE:O	1:A:66:LEU:HG	2.18	0.42
1:A:152:VAL:CG2	1:A:320:ASN:HD21	2.32	0.42
1:A:365:TYR:CZ	1:A:404:LYS:HB3	2.52	0.42
1:A:381:ILE:HD13	1:A:386:LEU:HD12	2.02	0.42
1:A:421:SER:C	1:A:422:ILE:HD13	2.44	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:15:ILE:HD11	1:C:95:GLU:O	2.19	0.42
1:C:87:PHE:CD1	1:C:88:LEU:HD13	2.54	0.42
1:C:248:GLN:O	1:C:268:PHE:CZ	2.73	0.42
1:C:322:ARG:HA	1:C:322:ARG:HD2	1.64	0.42
1:C:375:PHE:HB3	1:C:376:PRO:HD2	2.01	0.42
1:C:429:LEU:O	1:C:430:LYS:C	2.62	0.42
1:C:483:ARG:NH2	1:C:528:ILE:HA	2.35	0.42
1:C:562:LEU:HD12	1:C:577:ALA:O	2.19	0.42
2:D:105:LEU:CD2	2:Z:105:LEU:HD11	2.46	0.42
1:E:24:VAL:O	1:E:24:VAL:HG12	2.20	0.42
1:E:97:ARG:C	1:E:98:GLN:HG2	2.45	0.42
1:E:371:ARG:C	1:E:373:SER:N	2.77	0.42
2:F:49:LEU:HA	2:F:49:LEU:HD22	1.69	0.42
2:F:91:ILE:HD13	2:F:107:GLU:HB2	2.02	0.42
1:G:14:ASP:OD1	1:G:110:ARG:NE	2.53	0.42
1:G:24:VAL:O	1:G:24:VAL:HG12	2.20	0.42
1:G:48:ILE:CD1	1:G:61:LEU:CD1	2.98	0.42
1:G:290:MET:HB3	1:G:290:MET:HE2	1.81	0.42
1:I:232:LEU:HA	1:I:237:TYR:CD2	2.55	0.42
1:I:333:ASP:OD1	1:K:413:LYS:HE2	2.19	0.42
1:I:1216:UNK:O	1:I:1217:UNK:C	2.68	0.42
2:J:85:THR:C	2:J:87:TYR:N	2.72	0.42
1:K:200:LEU:CD2	1:K:207:TRP:CD1	3.01	0.42
1:K:243:VAL:C	1:K:244:LEU:O	2.55	0.42
1:K:664:UNK:O	1:K:672:UNK:HA	2.19	0.42
1:M:97:ARG:C	1:M:98:GLN:HG2	2.45	0.42
1:M:193:LEU:O	1:M:197:GLN:N	2.50	0.42
1:M:305:LEU:C	1:M:305:LEU:CD1	2.93	0.42
1:O:88:LEU:CA	1:O:91:PRO:HD2	2.39	0.42
1:O:305:LEU:C	1:O:305:LEU:CD1	2.93	0.42
1:O:353:ILE:HG21	1:O:426:TYR:HA	2.01	0.42
1:O:410:LEU:CG	1:O:423:PRO:CD	2.47	0.42
1:O:495:ARG:HH11	1:O:546:LEU:HA	1.84	0.42
1:O:618:UNK:N	1:O:904:UNK:HA	2.35	0.42
2:P:91:ILE:HD13	2:P:107:GLU:HB2	2.02	0.42
1:Q:184:LYS:HG3	1:Q:185:ASN:N	2.35	0.42
1:Q:381:ILE:HD13	1:Q:386:LEU:HD12	2.02	0.42
1:Q:1188:UNK:C	1:Q:1190:UNK:N	2.83	0.42
1:S:24:VAL:O	1:S:24:VAL:HG12	2.20	0.42
1:S:48:ILE:CD1	1:S:61:LEU:CD1	2.98	0.42
1:S:178:ILE:HG23	1:S:241:LEU:HB3	2.02	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:S:300:LEU:O	1:S:304:TYR:HE1	2.02	0.42
1:S:664:UNK:O	1:S:672:UNK:HA	2.19	0.42
1:U:97:ARG:C	1:U:98:GLN:HG2	2.45	0.42
1:U:495:ARG:HH11	1:U:546:LEU:HA	1.84	0.42
1:W:158:THR:HG23	1:W:159:TRP:CD1	2.41	0.42
1:W:374:VAL:CG2	1:W:375:PHE:N	2.82	0.42
1:W:483:ARG:NH2	1:W:528:ILE:HA	2.35	0.42
1:W:557:LYS:HE2	1:W:558:TYR:H	1.85	0.42
1:Y:235:LYS:N	1:Y:236:PRO:CD	2.82	0.42
1:Y:488:ARG:CG	1:Y:488:ARG:NH1	2.65	0.42
1:Y:557:LYS:HE2	1:Y:558:TYR:H	1.85	0.42
1:Y:1216:UNK:O	1:Y:1217:UNK:C	2.68	0.42
1:a:305:LEU:C	1:a:305:LEU:CD1	2.93	0.42
1:a:371:ARG:C	1:a:373:SER:H	2.28	0.42
1:a:381:ILE:HD13	1:a:386:LEU:HD12	2.02	0.42
1:a:414:GLN:OE1	1:a:420:ILE:C	2.62	0.42
1:a:495:ARG:HH11	1:a:546:LEU:HA	1.84	0.42
1:a:1237:UNK:C	1:a:1239:UNK:N	2.82	0.42
2:b:91:ILE:HD13	2:b:107:GLU:HB2	2.02	0.42
1:c:47:HIS:O	1:c:50:MET:HB3	2.12	0.42
1:c:97:ARG:C	1:c:98:GLN:HG2	2.45	0.42
1:c:133:LYS:C	1:c:283:ILE:CD1	2.93	0.42
1:c:134:LEU:N	1:c:283:ILE:HD11	2.34	0.42
1:c:184:LYS:HG3	1:c:185:ASN:N	2.35	0.42
1:c:188:SER:C	1:c:191:THR:HG23	2.30	0.42
1:c:305:LEU:C	1:c:305:LEU:CD1	2.93	0.42
1:c:374:VAL:CG2	1:c:375:PHE:N	2.82	0.42
1:c:483:ARG:NH2	1:c:528:ILE:HA	2.35	0.42
1:e:88:LEU:CA	1:e:91:PRO:CD	2.97	0.42
1:e:305:LEU:HD22	1:e:305:LEU:HA	1.71	0.42
2:f:57:GLY:N	2:f:59:PRO:HD2	2.34	0.42
1:A:118:GLN:HE21	1:e:279:THR:CG2	2.15	0.42
1:A:232:LEU:HA	1:A:237:TYR:CD2	2.55	0.42
1:A:269:LYS:O	1:A:269:LYS:HD3	2.20	0.42
1:A:300:LEU:O	1:A:304:TYR:HE1	2.02	0.42
1:A:501:ILE:C	1:A:503:HIS:H	2.28	0.42
1:C:188:SER:C	1:C:191:THR:HG23	2.30	0.42
1:C:365:TYR:CZ	1:C:404:LYS:HB3	2.52	0.42
1:C:435:ASN:HD22	1:C:435:ASN:HA	1.56	0.42
1:C:557:LYS:HE2	1:C:558:TYR:H	1.85	0.42
1:C:618:UNK:N	1:C:904:UNK:HA	2.35	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:668:UNK:C	1:C:670:UNK:N	2.81	0.42
1:C:1216:UNK:O	1:C:1217:UNK:C	2.68	0.42
1:E:365:TYR:CZ	1:E:404:LYS:HB3	2.52	0.42
1:G:174:MET:HE3	1:G:174:MET:HB2	1.76	0.42
1:G:183:LEU:HD23	1:G:183:LEU:HA	1.72	0.42
1:G:203:ILE:HG21	1:G:231:LEU:CD2	2.46	0.42
1:G:305:LEU:C	1:G:305:LEU:CD1	2.93	0.42
1:G:410:LEU:CG	1:G:423:PRO:CD	2.47	0.42
1:G:424:SER:O	1:G:428:GLU:N	2.49	0.42
1:G:618:UNK:N	1:G:904:UNK:HA	2.35	0.42
1:I:174:MET:HE3	1:I:174:MET:HB2	1.76	0.42
1:I:353:ILE:HG21	1:I:426:TYR:HA	2.01	0.42
1:I:520:GLN:HG2	1:I:524:TYR:HE2	1.84	0.42
1:K:48:ILE:CD1	1:K:61:LEU:CD1	2.98	0.42
1:K:199:LEU:O	1:K:203:ILE:HD12	2.19	0.42
1:K:287:HIS:CB	1:K:288:HIS:CD2	3.03	0.42
1:K:414:GLN:OE1	1:K:420:ILE:C	2.62	0.42
1:K:421:SER:C	1:K:422:ILE:HD13	2.44	0.42
1:M:142:ARG:CB	1:M:143:PRO:HD2	2.49	0.42
1:M:184:LYS:HG3	1:M:185:ASN:N	2.35	0.42
1:M:245:LEU:HD23	1:M:245:LEU:HA	1.79	0.42
1:M:1188:UNK:C	1:M:1190:UNK:N	2.83	0.42
1:O:371:ARG:C	1:O:373:SER:H	2.28	0.42
1:O:381:ILE:HD13	1:O:386:LEU:HD12	2.02	0.42
1:O:501:ILE:C	1:O:503:HIS:H	2.28	0.42
1:O:1237:UNK:C	1:O:1239:UNK:N	2.82	0.42
1:Q:24:VAL:O	1:Q:24:VAL:HG12	2.20	0.42
1:Q:87:PHE:CE1	1:Q:88:LEU:HD13	2.54	0.42
1:Q:102:MET:CA	1:Q:105:MET:HB3	2.50	0.42
1:Q:243:VAL:C	1:Q:244:LEU:O	2.55	0.42
1:Q:357:LEU:HD23	1:Q:357:LEU:HA	1.88	0.42
1:Q:557:LYS:HE2	1:Q:558:TYR:H	1.85	0.42
1:Q:1216:UNK:O	1:Q:1217:UNK:C	2.68	0.42
2:R:91:ILE:HD13	2:R:107:GLU:HB2	2.02	0.42
1:S:338:TRP:HA	1:S:338:TRP:HE3	1.78	0.42
1:S:413:LYS:HE2	1:U:333:ASP:OD1	2.19	0.42
2:T:78:LYS:HD3	2:T:78:LYS:HA	1.94	0.42
1:U:86:LYS:HD2	1:U:86:LYS:HA	1.53	0.42
1:U:178:ILE:HG23	1:U:241:LEU:HB3	2.02	0.42
1:U:184:LYS:HG3	1:U:185:ASN:N	2.35	0.42
2:V:49:LEU:HA	2:V:49:LEU:HD22	1.69	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:W:260:CYS:O	1:W:262:ILE:HG23	2.19	0.42
1:W:429:LEU:O	1:W:430:LYS:C	2.62	0.42
1:W:562:LEU:HD12	1:W:577:ALA:O	2.19	0.42
1:W:618:UNK:N	1:W:904:UNK:HA	2.35	0.42
1:W:1216:UNK:O	1:W:1217:UNK:C	2.68	0.42
1:Y:368:MET:HE1	1:Y:386:LEU:CD2	2.49	0.42
1:Y:381:ILE:HD13	1:Y:386:LEU:HD12	2.02	0.42
2:Z:91:ILE:HD13	2:Z:107:GLU:HB2	2.02	0.42
1:a:48:ILE:HD13	1:a:61:LEU:CA	2.34	0.42
1:a:183:LEU:HD23	1:a:183:LEU:HA	1.72	0.42
1:a:322:ARG:HA	1:a:322:ARG:HD2	1.64	0.42
1:a:580:GLN:HG2	1:a:580:GLN:H	1.70	0.42
2:b:78:LYS:HD3	2:b:78:LYS:HA	1.94	0.42
1:e:48:ILE:CD1	1:e:61:LEU:CD1	2.98	0.42
1:e:287:HIS:CB	1:e:288:HIS:CD2	3.03	0.42
1:e:300:LEU:O	1:e:304:TYR:HE1	2.02	0.42
1:e:414:GLN:OE1	1:e:420:ILE:C	2.62	0.42
1:e:443:ILE:HD11	1:e:477:ASN:HB3	2.01	0.42
1:e:664:UNK:O	1:e:672:UNK:HA	2.19	0.42
1:A:232:LEU:C	1:A:234:SER:N	2.57	0.42
1:A:274:PHE:CD2	1:A:275:LEU:CD1	3.03	0.42
1:A:287:HIS:CB	1:A:288:HIS:HD2	2.25	0.42
1:A:411:VAL:H	1:A:423:PRO:HD3	1.84	0.42
1:A:557:LYS:HE3	1:A:558:TYR:N	2.34	0.42
2:B:18:ILE:O	2:B:22:LEU:HG	2.20	0.42
2:B:85:THR:C	2:B:87:TYR:N	2.72	0.42
1:E:178:ILE:HG23	1:E:241:LEU:HB3	2.02	0.42
1:E:244:LEU:HB3	1:E:247:VAL:HG22	2.02	0.42
1:E:495:ARG:HH11	1:E:546:LEU:HA	1.84	0.42
1:G:664:UNK:O	1:G:672:UNK:HA	2.19	0.42
1:I:114:TYR:C	1:I:117:ASN:O	2.53	0.42
1:I:196:LEU:HD12	1:I:224:ILE:HG13	2.02	0.42
1:I:232:LEU:C	1:I:234:SER:N	2.57	0.42
1:I:248:GLN:O	1:I:268:PHE:CZ	2.73	0.42
1:I:269:LYS:O	1:I:269:LYS:HD3	2.20	0.42
1:I:274:PHE:CD2	1:I:275:LEU:CD1	3.03	0.42
1:I:404:LYS:HA	1:I:404:LYS:CE	2.40	0.42
1:I:421:SER:C	1:I:422:ILE:HD13	2.44	0.42
1:I:557:LYS:HE2	1:I:558:TYR:H	1.85	0.42
2:J:18:ILE:O	2:J:22:LEU:HG	2.20	0.42
1:K:88:LEU:CA	1:K:91:PRO:CD	2.97	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:668:UNK:C	1:K:670:UNK:N	2.81	0.42
1:M:133:LYS:C	1:M:283:ILE:CD1	2.93	0.42
1:M:152:VAL:CG2	1:M:320:ASN:HD21	2.32	0.42
1:O:24:VAL:O	1:O:24:VAL:HG12	2.20	0.42
1:O:244:LEU:HB3	1:O:247:VAL:HG22	2.02	0.42
1:O:300:LEU:O	1:O:304:TYR:HE1	2.02	0.42
1:O:414:GLN:OE1	1:O:420:ILE:C	2.62	0.42
1:O:664:UNK:O	1:O:672:UNK:HA	2.19	0.42
2:P:78:LYS:HD3	2:P:78:LYS:HA	1.94	0.42
1:Q:368:MET:HE1	1:Q:386:LEU:CD2	2.49	0.42
1:Q:492:LEU:HD23	1:Q:492:LEU:HA	1.85	0.42
1:Q:835:UNK:C	1:Q:836:UNK:H2	2.32	0.42
2:R:18:ILE:O	2:R:22:LEU:HG	2.20	0.42
2:R:105:LEU:HD11	2:X:105:LEU:CD2	2.46	0.42
1:S:305:LEU:C	1:S:305:LEU:CD1	2.93	0.42
1:S:618:UNK:N	1:S:904:UNK:HA	2.35	0.42
1:U:303:LYS:HD3	1:U:303:LYS:HA	1.70	0.42
1:U:371:ARG:C	1:U:373:SER:H	2.28	0.42
2:V:43:ILE:HG13	2:V:89:LEU:HD21	2.02	0.42
1:Y:102:MET:CA	1:Y:105:MET:HB3	2.50	0.42
1:Y:562:LEU:HD12	1:Y:577:ALA:O	2.19	0.42
2:Z:18:ILE:O	2:Z:22:LEU:HG	2.20	0.42
1:a:24:VAL:HG12	1:a:24:VAL:O	2.20	0.42
1:a:106:TYR:HE1	1:a:110:ARG:HB2	1.85	0.42
1:a:353:ILE:HG21	1:a:426:TYR:HA	2.01	0.42
1:a:382:PRO:HD2	1:a:385:LEU:HD12	2.01	0.42
1:c:193:LEU:O	1:c:197:GLN:N	2.50	0.42
1:c:1188:UNK:C	1:c:1190:UNK:N	2.83	0.42
1:e:87:PHE:CE1	1:e:88:LEU:HD13	2.54	0.42
1:e:320:ASN:HD22	1:e:320:ASN:HA	1.71	0.42
1:e:422:ILE:HB	1:e:427:LEU:HD11	1.94	0.42
1:e:668:UNK:C	1:e:670:UNK:N	2.81	0.42
1:A:196:LEU:HD12	1:A:224:ILE:HG13	2.02	0.41
1:A:229:ARG:O	1:A:233:LYS:HD3	2.14	0.41
1:A:248:GLN:O	1:A:268:PHE:CZ	2.73	0.41
1:A:1188:UNK:C	1:A:1190:UNK:N	2.83	0.41
1:C:14:ASP:OD1	1:C:110:ARG:NE	2.53	0.41
1:C:97:ARG:C	1:C:98:GLN:HG2	2.45	0.41
1:C:192:VAL:HG23	1:C:221:ILE:CD1	2.30	0.41
1:C:252:ALA:O	1:C:255:ALA:N	2.53	0.41
1:C:260:CYS:O	1:C:262:ILE:HG23	2.19	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:381:ILE:HD13	1:C:386:LEU:HD12	2.02	0.41
1:E:153:LEU:CD2	1:E:267:ARG:HB2	2.48	0.41
1:E:172:CYS:HA	1:E:176:PHE:CE1	2.55	0.41
1:E:184:LYS:HG3	1:E:185:ASN:N	2.35	0.41
1:E:232:LEU:HA	1:E:237:TYR:CD2	2.55	0.41
1:E:375:PHE:HB3	1:E:376:PRO:HD2	2.01	0.41
1:E:388:LEU:H	1:E:388:LEU:CD2	2.28	0.41
1:E:483:ARG:NH2	1:E:528:ILE:HA	2.35	0.41
2:F:18:ILE:O	2:F:22:LEU:HG	2.20	0.41
2:F:43:ILE:HG13	2:F:89:LEU:HD21	2.02	0.41
1:G:15:ILE:HD11	1:G:95:GLU:O	2.19	0.41
1:G:357:LEU:HD23	1:G:357:LEU:HA	1.88	0.41
1:G:381:ILE:N	1:G:420:ILE:O	2.48	0.41
2:H:43:ILE:HG13	2:H:89:LEU:HD21	2.02	0.41
2:H:49:LEU:HD22	2:H:49:LEU:HA	1.69	0.41
1:I:184:LYS:HD3	1:I:185:ASN:H	1.83	0.41
1:I:229:ARG:O	1:I:233:LYS:HD3	2.14	0.41
1:I:327:ILE:HG21	1:I:341:TRP:HZ3	1.77	0.41
1:I:411:VAL:H	1:I:423:PRO:HD3	1.84	0.41
1:I:557:LYS:HE3	1:I:558:TYR:N	2.34	0.41
1:K:15:ILE:HD11	1:K:95:GLU:O	2.19	0.41
1:K:87:PHE:CE1	1:K:88:LEU:HD13	2.54	0.41
1:K:178:ILE:HG23	1:K:241:LEU:HB3	2.02	0.41
1:K:320:ASN:HD22	1:K:320:ASN:HA	1.71	0.41
1:K:483:ARG:NH2	1:K:528:ILE:HA	2.35	0.41
1:M:172:CYS:HA	1:M:176:PHE:CE1	2.55	0.41
1:M:183:LEU:HD23	1:M:183:LEU:HA	1.72	0.41
1:M:562:LEU:HD12	1:M:577:ALA:O	2.19	0.41
1:O:106:TYR:HE1	1:O:110:ARG:HB2	1.85	0.41
1:O:165:CYS:SG	1:O:165:CYS:O	2.78	0.41
1:O:303:LYS:HA	1:O:303:LYS:HD3	1.70	0.41
1:O:443:ILE:HD11	1:O:477:ASN:HB3	2.01	0.41
1:O:580:GLN:HG2	1:O:580:GLN:H	1.70	0.41
2:P:44:LEU:HB3	2:P:48:MET:HB2	2.00	0.41
2:P:81:GLN:CA	2:P:81:GLN:NE2	2.73	0.41
1:Q:165:CYS:SG	1:Q:165:CYS:O	2.78	0.41
1:Q:172:CYS:HA	1:Q:176:PHE:CE1	2.55	0.41
1:Q:200:LEU:CD2	1:Q:207:TRP:CD1	3.01	0.41
1:Q:232:LEU:HA	1:Q:237:TYR:CD2	2.55	0.41
1:Q:252:ALA:O	1:Q:255:ALA:N	2.54	0.41
1:Q:384:ILE:O	1:Q:388:LEU:HD21	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Q:495:ARG:HH11	1:Q:546:LEU:HA	1.84	0.41
1:Q:664:UNK:O	1:Q:672:UNK:HA	2.19	0.41
1:S:15:ILE:HD11	1:S:95:GLU:O	2.19	0.41
1:S:133:LYS:C	1:S:283:ILE:CD1	2.93	0.41
1:S:196:LEU:HD12	1:S:224:ILE:HG13	2.02	0.41
1:S:290:MET:HB3	1:S:290:MET:HE2	1.81	0.41
1:S:421:SER:C	1:S:422:ILE:HD13	2.44	0.41
1:S:424:SER:O	1:S:428:GLU:N	2.49	0.41
1:U:153:LEU:CD2	1:U:267:ARG:HB2	2.48	0.41
1:U:172:CYS:HA	1:U:176:PHE:CE1	2.55	0.41
1:U:244:LEU:HB3	1:U:247:VAL:HG22	2.02	0.41
1:U:368:MET:O	1:U:371:ARG:N	2.39	0.41
1:U:368:MET:HE1	1:U:386:LEU:CD2	2.49	0.41
1:U:371:ARG:C	1:U:373:SER:N	2.77	0.41
1:U:483:ARG:NH2	1:U:528:ILE:HA	2.35	0.41
1:U:618:UNK:N	1:U:904:UNK:HA	2.35	0.41
2:V:18:ILE:O	2:V:22:LEU:HG	2.20	0.41
1:W:14:ASP:OD1	1:W:110:ARG:NE	2.53	0.41
1:W:365:TYR:CZ	1:W:404:LYS:HB3	2.52	0.41
1:W:495:ARG:HH11	1:W:546:LEU:HA	1.84	0.41
1:W:567:MET:HE2	1:W:567:MET:HB3	1.96	0.41
1:Y:24:VAL:O	1:Y:24:VAL:HG12	2.20	0.41
1:Y:87:PHE:CE1	1:Y:88:LEU:HD13	2.54	0.41
1:Y:165:CYS:SG	1:Y:165:CYS:O	2.78	0.41
1:Y:172:CYS:HA	1:Y:176:PHE:CE1	2.55	0.41
1:Y:188:SER:C	1:Y:191:THR:HG23	2.30	0.41
1:Y:252:ALA:O	1:Y:255:ALA:N	2.54	0.41
1:Y:384:ILE:O	1:Y:388:LEU:HD21	2.20	0.41
1:Y:495:ARG:HH11	1:Y:546:LEU:HA	1.84	0.41
1:Y:664:UNK:O	1:Y:672:UNK:HA	2.19	0.41
1:a:165:CYS:SG	1:a:165:CYS:O	2.78	0.41
1:a:244:LEU:HB3	1:a:247:VAL:HG22	2.02	0.41
1:a:290:MET:HB3	1:a:290:MET:HE2	1.81	0.41
1:a:300:LEU:O	1:a:304:TYR:HE1	2.02	0.41
1:a:374:VAL:CG2	1:a:375:PHE:N	2.82	0.41
1:a:429:LEU:O	1:a:430:LYS:C	2.62	0.41
1:a:443:ILE:HD11	1:a:477:ASN:HB3	2.01	0.41
1:c:142:ARG:CB	1:c:143:PRO:HD2	2.49	0.41
1:c:152:VAL:CG2	1:c:320:ASN:HD21	2.32	0.41
1:c:172:CYS:HA	1:c:176:PHE:CE1	2.55	0.41
1:c:210:ARG:HB2	1:c:210:ARG:NH1	2.25	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:c:618:UNK:N	1:c:904:UNK:HA	2.35	0.41
1:e:244:LEU:HB3	1:e:247:VAL:HG22	2.02	0.41
1:e:421:SER:C	1:e:422:ILE:HD13	2.44	0.41
1:A:88:LEU:CA	1:A:91:PRO:CD	2.97	0.41
1:A:114:TYR:C	1:A:117:ASN:O	2.53	0.41
1:A:184:LYS:HG3	1:A:185:ASN:N	2.35	0.41
1:A:306:ASP:C	1:A:307:CYS:HG	2.29	0.41
1:A:557:LYS:HE2	1:A:558:TYR:H	1.85	0.41
2:B:109:VAL:HG12	2:L:109:VAL:HA	2.03	0.41
1:C:134:LEU:N	1:C:283:ILE:HD11	2.34	0.41
1:C:455:SER:OG	1:C:459:ILE:O	2.12	0.41
1:C:495:ARG:HH11	1:C:546:LEU:HA	1.84	0.41
1:C:823:UNK:O	1:C:832:UNK:N	2.54	0.41
1:E:142:ARG:CB	1:E:143:PRO:HD2	2.49	0.41
1:E:252:ALA:O	1:E:255:ALA:N	2.54	0.41
1:E:300:LEU:O	1:E:304:TYR:HE1	2.02	0.41
1:E:823:UNK:O	1:E:832:UNK:N	2.54	0.41
1:G:196:LEU:HD12	1:G:224:ILE:HG13	2.02	0.41
1:G:421:SER:C	1:G:422:ILE:HD13	2.44	0.41
1:G:501:ILE:C	1:G:503:HIS:H	2.28	0.41
2:H:78:LYS:HD3	2:H:78:LYS:HA	1.94	0.41
1:I:306:ASP:C	1:I:307:CYS:HG	2.29	0.41
1:I:1188:UNK:C	1:I:1190:UNK:N	2.83	0.41
2:J:109:VAL:HG12	2:f:109:VAL:HA	2.03	0.41
1:K:118:GLN:HE21	1:M:279:THR:CG2	2.15	0.41
1:K:244:LEU:HB3	1:K:247:VAL:HG22	2.02	0.41
1:K:248:GLN:O	1:K:268:PHE:CZ	2.73	0.41
1:K:365:TYR:CZ	1:K:404:LYS:HB3	2.52	0.41
1:K:1237:UNK:C	1:K:1239:UNK:N	2.82	0.41
1:M:19:PHE:CE1	1:M:92:ILE:HD11	2.56	0.41
1:M:618:UNK:N	1:M:904:UNK:HA	2.35	0.41
2:N:18:ILE:O	2:N:22:LEU:HG	2.20	0.41
1:O:186:CYS:C	1:O:191:THR:CG2	2.64	0.41
1:O:252:ALA:O	1:O:255:ALA:N	2.53	0.41
1:O:374:VAL:CG2	1:O:375:PHE:N	2.82	0.41
1:O:382:PRO:HD2	1:O:385:LEU:HD12	2.01	0.41
1:O:429:LEU:O	1:O:430:LYS:C	2.62	0.41
1:O:491:PHE:HA	1:O:576:GLU:CG	2.47	0.41
1:Q:153:LEU:CD2	1:Q:267:ARG:HB2	2.48	0.41
1:Q:353:ILE:HG23	1:Q:426:TYR:CD2	2.54	0.41
1:Q:404:LYS:HE2	1:Q:404:LYS:CA	2.41	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Q:562:LEU:HD12	1:Q:577:ALA:O	2.19	0.41
1:S:41:SER:O	1:S:42:LYS:C	2.61	0.41
1:S:165:CYS:SG	1:S:165:CYS:O	2.78	0.41
1:S:260:CYS:O	1:S:262:ILE:HG23	2.19	0.41
1:S:372:LEU:O	1:S:373:SER:C	2.63	0.41
2:T:43:ILE:HG13	2:T:89:LEU:HD21	2.02	0.41
2:T:57:GLY:N	2:T:59:PRO:HD2	2.34	0.41
1:U:142:ARG:CB	1:U:143:PRO:HD2	2.49	0.41
1:U:232:LEU:HA	1:U:237:TYR:CD2	2.55	0.41
1:U:245:LEU:HD23	1:U:245:LEU:HA	1.79	0.41
1:U:252:ALA:O	1:U:255:ALA:N	2.54	0.41
1:U:300:LEU:O	1:U:304:TYR:HE1	2.02	0.41
1:U:375:PHE:HB3	1:U:376:PRO:HD2	2.01	0.41
1:U:823:UNK:O	1:U:832:UNK:N	2.54	0.41
1:W:97:ARG:C	1:W:98:GLN:HG2	2.45	0.41
1:W:166:LEU:C	1:W:166:LEU:CD2	2.86	0.41
1:W:188:SER:C	1:W:191:THR:HG23	2.30	0.41
1:W:252:ALA:O	1:W:255:ALA:N	2.53	0.41
1:W:381:ILE:HD13	1:W:386:LEU:HD12	2.02	0.41
1:W:382:PRO:HD2	1:W:385:LEU:HD12	2.01	0.41
1:W:421:SER:C	1:W:422:ILE:HD13	2.44	0.41
1:Y:48:ILE:CD1	1:Y:61:LEU:CD1	2.98	0.41
1:Y:153:LEU:CD2	1:Y:267:ARG:HB2	2.48	0.41
1:Y:200:LEU:CD2	1:Y:207:TRP:CD1	3.01	0.41
1:Y:232:LEU:HA	1:Y:237:TYR:CD2	2.55	0.41
1:Y:242:LEU:HD22	1:Y:262:ILE:HG22	2.01	0.41
1:Y:274:PHE:CD2	1:Y:275:LEU:CD1	3.03	0.41
1:Y:835:UNK:C	1:Y:836:UNK:H2	2.32	0.41
1:a:186:CYS:C	1:a:191:THR:CG2	2.64	0.41
1:a:252:ALA:O	1:a:255:ALA:N	2.53	0.41
1:a:664:UNK:O	1:a:672:UNK:HA	2.19	0.41
2:b:44:LEU:HB3	2:b:48:MET:HB2	2.00	0.41
1:c:19:PHE:CE1	1:c:92:ILE:HD11	2.56	0.41
1:c:353:ILE:HG23	1:c:426:TYR:CD2	2.54	0.41
1:c:371:ARG:C	1:c:373:SER:H	2.28	0.41
1:c:413:LYS:HE2	1:e:333:ASP:OD1	2.19	0.41
1:c:562:LEU:HD12	1:c:577:ALA:O	2.19	0.41
2:d:18:ILE:O	2:d:22:LEU:HG	2.20	0.41
1:e:203:ILE:HG21	1:e:231:LEU:CD2	2.46	0.41
1:e:248:GLN:O	1:e:268:PHE:CZ	2.73	0.41
1:e:381:ILE:HA	1:e:382:PRO:HD3	1.77	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:e:483:ARG:NH2	1:e:528:ILE:HA	2.35	0.41
1:e:557:LYS:HE3	1:e:558:TYR:N	2.34	0.41
1:A:172:CYS:HA	1:A:176:PHE:CE1	2.55	0.41
1:A:184:LYS:HD3	1:A:185:ASN:H	1.83	0.41
2:B:29:THR:O	2:B:72:HIS:NE2	2.48	0.41
1:C:382:PRO:HD2	1:C:385:LEU:HD12	2.01	0.41
1:C:421:SER:C	1:C:422:ILE:HD13	2.44	0.41
2:D:22:LEU:HD11	2:D:77:LEU:CD1	2.34	0.41
1:E:287:HIS:CG	1:E:288:HIS:H	2.31	0.41
1:E:368:MET:HE1	1:E:386:LEU:CD2	2.49	0.41
1:E:371:ARG:C	1:E:373:SER:H	2.28	0.41
1:E:618:UNK:N	1:E:904:UNK:HA	2.35	0.41
2:F:109:VAL:HA	2:b:109:VAL:HG12	2.03	0.41
1:G:97:ARG:C	1:G:98:GLN:HG2	2.45	0.41
1:G:165:CYS:SG	1:G:165:CYS:O	2.78	0.41
1:G:384:ILE:O	1:G:388:LEU:HD21	2.20	0.41
2:H:57:GLY:N	2:H:59:PRO:HD2	2.34	0.41
2:H:109:VAL:HG12	2:d:109:VAL:HA	2.03	0.41
1:I:14:ASP:OD1	1:I:110:ARG:NE	2.53	0.41
1:I:172:CYS:HA	1:I:176:PHE:CE1	2.55	0.41
1:I:184:LYS:HG3	1:I:185:ASN:N	2.35	0.41
1:I:483:ARG:NH2	1:I:528:ILE:HA	2.35	0.41
1:K:368:MET:HE1	1:K:386:LEU:CD2	2.49	0.41
1:M:353:ILE:HG23	1:M:426:TYR:CD2	2.54	0.41
1:M:382:PRO:HD2	1:M:385:LEU:HD12	2.01	0.41
2:N:109:VAL:HA	2:T:109:VAL:HG12	2.03	0.41
1:O:172:CYS:HA	1:O:176:PHE:CE1	2.56	0.41
1:O:322:ARG:HA	1:O:322:ARG:HD2	1.64	0.41
2:P:109:VAL:HG12	2:V:109:VAL:HA	2.03	0.41
1:Q:48:ILE:CD1	1:Q:61:LEU:CD1	2.98	0.41
1:Q:242:LEU:HD22	1:Q:262:ILE:HG22	2.01	0.41
1:Q:287:HIS:CB	1:Q:288:HIS:CD2	3.03	0.41
1:S:97:ARG:C	1:S:98:GLN:HG2	2.45	0.41
1:S:371:ARG:C	1:S:373:SER:N	2.77	0.41
1:S:381:ILE:N	1:S:420:ILE:O	2.48	0.41
1:S:384:ILE:O	1:S:388:LEU:HD21	2.20	0.41
1:S:405:LEU:O	1:S:406:HIS:C	2.61	0.41
1:S:1098:UNK:C	1:S:1100:UNK:N	2.80	0.41
2:V:77:LEU:HA	2:V:77:LEU:HD12	1.80	0.41
1:W:134:LEU:N	1:W:283:ILE:HD11	2.34	0.41
1:W:823:UNK:O	1:W:832:UNK:N	2.54	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Y:353:ILE:HG23	1:Y:426:TYR:CD2	2.54	0.41
1:Y:405:LEU:O	1:Y:406:HIS:C	2.61	0.41
1:Y:501:ILE:C	1:Y:503:HIS:H	2.28	0.41
1:a:172:CYS:HA	1:a:176:PHE:CE1	2.56	0.41
1:a:260:CYS:HB3	1:a:262:ILE:CG2	2.51	0.41
1:a:367:LYS:O	1:a:368:MET:C	2.63	0.41
1:e:15:ILE:HD11	1:e:95:GLU:O	2.19	0.41
1:e:97:ARG:C	1:e:98:GLN:HG2	2.45	0.41
1:e:178:ILE:HG23	1:e:241:LEU:HB3	2.02	0.41
1:A:14:ASP:OD1	1:A:110:ARG:NE	2.53	0.41
1:A:165:CYS:SG	1:A:165:CYS:O	2.78	0.41
1:A:305:LEU:C	1:A:305:LEU:CD1	2.93	0.41
1:A:483:ARG:NH2	1:A:528:ILE:HA	2.35	0.41
1:A:668:UNK:C	1:A:670:UNK:N	2.81	0.41
2:B:43:ILE:HG13	2:B:89:LEU:HD21	2.02	0.41
1:C:106:TYR:HE1	1:C:110:ARG:HB2	1.85	0.41
1:C:118:GLN:C	1:C:120:PHE:H	2.28	0.41
1:C:133:LYS:C	1:C:283:ILE:CD1	2.93	0.41
1:C:172:CYS:HA	1:C:176:PHE:CE1	2.56	0.41
1:C:232:LEU:C	1:C:234:SER:N	2.57	0.41
1:C:443:ILE:HD11	1:C:477:ASN:HB3	2.01	0.41
1:C:501:ILE:C	1:C:503:HIS:H	2.28	0.41
1:C:567:MET:HE2	1:C:567:MET:HB3	1.96	0.41
2:D:109:VAL:HA	2:Z:109:VAL:HG12	2.03	0.41
1:E:50:MET:SD	1:E:50:MET:O	2.79	0.41
1:E:148:LEU:HD21	1:E:282:HIS:CD2	2.45	0.41
1:E:305:LEU:C	1:E:305:LEU:CD1	2.93	0.41
1:E:501:ILE:C	1:E:503:HIS:H	2.28	0.41
2:F:81:GLN:CA	2:F:81:GLN:NE2	2.73	0.41
1:G:41:SER:O	1:G:42:LYS:C	2.61	0.41
1:G:133:LYS:C	1:G:283:ILE:CD1	2.93	0.41
1:G:142:ARG:CB	1:G:143:PRO:HD2	2.49	0.41
1:G:229:ARG:O	1:G:233:LYS:HD3	2.14	0.41
1:G:243:VAL:C	1:G:244:LEU:O	2.55	0.41
1:G:252:ALA:O	1:G:255:ALA:N	2.53	0.41
1:G:260:CYS:O	1:G:262:ILE:HG23	2.19	0.41
1:G:338:TRP:HA	1:G:338:TRP:HE3	1.78	0.41
1:G:367:LYS:O	1:G:368:MET:C	2.63	0.41
1:G:372:LEU:O	1:G:373:SER:C	2.63	0.41
1:G:381:ILE:HD13	1:G:386:LEU:HD12	2.02	0.41
1:I:88:LEU:CA	1:I:91:PRO:CD	2.97	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:165:CYS:SG	1:I:165:CYS:O	2.78	0.41
1:I:287:HIS:CB	1:I:288:HIS:HD2	2.25	0.41
1:I:293:THR:HA	1:I:294:PRO:HD3	1.96	0.41
1:I:305:LEU:C	1:I:305:LEU:CD1	2.93	0.41
1:I:422:ILE:HB	1:I:427:LEU:HD11	1.94	0.41
1:I:429:LEU:O	1:I:430:LYS:C	2.62	0.41
1:K:97:ARG:C	1:K:98:GLN:HG2	2.45	0.41
1:K:274:PHE:CD2	1:K:275:LEU:CD1	3.03	0.41
1:K:333:ASP:OD1	1:M:413:LYS:HE2	2.19	0.41
1:K:371:ARG:C	1:K:373:SER:H	2.28	0.41
1:K:371:ARG:C	1:K:373:SER:N	2.77	0.41
1:K:422:ILE:HB	1:K:427:LEU:HD11	1.94	0.41
1:K:491:PHE:HA	1:K:576:GLU:CG	2.47	0.41
1:K:557:LYS:HE3	1:K:558:TYR:N	2.34	0.41
1:K:562:LEU:HD12	1:K:577:ALA:O	2.19	0.41
1:K:618:UNK:N	1:K:904:UNK:HA	2.35	0.41
1:M:1131:UNK:N	1:M:1145:UNK:O	2.54	0.41
1:O:248:GLN:O	1:O:268:PHE:CZ	2.73	0.41
1:O:260:CYS:HB3	1:O:262:ILE:CG2	2.51	0.41
1:O:1216:UNK:O	1:O:1217:UNK:C	2.68	0.41
1:Q:274:PHE:CD2	1:Q:275:LEU:CD1	3.03	0.41
1:Q:371:ARG:C	1:Q:373:SER:H	2.28	0.41
1:Q:405:LEU:O	1:Q:406:HIS:C	2.61	0.41
1:Q:501:ILE:C	1:Q:503:HIS:H	2.28	0.41
2:R:109:VAL:HG12	2:X:109:VAL:HA	2.03	0.41
1:S:183:LEU:HD23	1:S:183:LEU:HA	1.72	0.41
1:S:229:ARG:O	1:S:233:LYS:HD3	2.14	0.41
1:S:252:ALA:O	1:S:255:ALA:N	2.53	0.41
1:S:322:ARG:HA	1:S:322:ARG:HD2	1.64	0.41
1:S:367:LYS:O	1:S:368:MET:C	2.63	0.41
1:S:381:ILE:HD13	1:S:386:LEU:HD12	2.02	0.41
1:S:501:ILE:C	1:S:503:HIS:H	2.28	0.41
1:S:1188:UNK:C	1:S:1190:UNK:N	2.83	0.41
1:S:1216:UNK:O	1:S:1217:UNK:C	2.68	0.41
1:U:50:MET:SD	1:U:50:MET:O	2.79	0.41
1:U:381:ILE:HD13	1:U:386:LEU:HD12	2.02	0.41
1:W:11:GLN:OE1	1:W:70:GLU:HG2	2.07	0.41
1:W:118:GLN:C	1:W:120:PHE:H	2.28	0.41
1:W:133:LYS:C	1:W:283:ILE:CD1	2.93	0.41
1:W:172:CYS:HA	1:W:176:PHE:CE1	2.56	0.41
1:W:269:LYS:O	1:W:269:LYS:HD3	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:W:422:ILE:HB	1:W:427:LEU:HD11	1.94	0.41
1:Y:287:HIS:CB	1:Y:288:HIS:CD2	3.03	0.41
1:Y:357:LEU:HD23	1:Y:357:LEU:HA	1.88	0.41
1:a:41:SER:O	1:a:42:LYS:C	2.61	0.41
1:a:269:LYS:O	1:a:269:LYS:HD3	2.20	0.41
1:a:1216:UNK:O	1:a:1217:UNK:C	2.68	0.41
1:c:207:TRP:HE1	1:c:227:GLU:CB	2.28	0.41
1:c:229:ARG:O	1:c:233:LYS:HD3	2.14	0.41
1:c:382:PRO:HD2	1:c:385:LEU:HD12	2.01	0.41
1:c:404:LYS:HA	1:c:404:LYS:CE	2.40	0.41
1:c:557:LYS:HE3	1:c:558:TYR:N	2.34	0.41
1:e:243:VAL:C	1:e:244:LEU:O	2.55	0.41
1:e:274:PHE:CD2	1:e:275:LEU:CD1	3.03	0.41
1:e:368:MET:HE1	1:e:386:LEU:CD2	2.49	0.41
1:e:371:ARG:C	1:e:373:SER:N	2.77	0.41
1:e:618:UNK:N	1:e:904:UNK:HA	2.35	0.41
1:e:1237:UNK:C	1:e:1239:UNK:N	2.82	0.41
2:f:10:MET:HE3	2:f:14:HIS:HB3	2.03	0.41
1:A:260:CYS:HB3	1:A:262:ILE:CG2	2.51	0.41
1:A:429:LEU:O	1:A:430:LYS:C	2.62	0.41
1:C:269:LYS:O	1:C:269:LYS:HD3	2.20	0.41
1:C:367:LYS:O	1:C:368:MET:C	2.63	0.41
1:C:384:ILE:O	1:C:388:LEU:HD21	2.20	0.41
2:D:43:ILE:HG13	2:D:89:LEU:HD21	2.02	0.41
1:E:260:CYS:HB3	1:E:262:ILE:CG2	2.51	0.41
1:E:267:ARG:HG3	1:E:268:PHE:HD1	1.86	0.41
1:E:368:MET:O	1:E:371:ARG:N	2.39	0.41
1:E:381:ILE:HD13	1:E:386:LEU:HD12	2.02	0.41
2:F:82:ARG:HA	2:F:82:ARG:HD2	1.82	0.41
1:G:371:ARG:C	1:G:373:SER:N	2.77	0.41
1:G:405:LEU:O	1:G:406:HIS:C	2.61	0.41
1:G:1098:UNK:C	1:G:1100:UNK:N	2.80	0.41
1:G:1188:UNK:C	1:G:1190:UNK:N	2.83	0.41
1:G:1216:UNK:O	1:G:1217:UNK:C	2.68	0.41
1:I:24:VAL:O	1:I:24:VAL:HG12	2.20	0.41
1:I:260:CYS:HB3	1:I:262:ILE:CG2	2.51	0.41
1:I:668:UNK:C	1:I:670:UNK:N	2.81	0.41
2:J:29:THR:O	2:J:72:HIS:NE2	2.48	0.41
2:J:43:ILE:HG13	2:J:89:LEU:HD21	2.02	0.41
2:J:109:VAL:HA	2:f:109:VAL:HG12	2.03	0.41
1:K:19:PHE:CE1	1:K:92:ILE:HD11	2.56	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:50:MET:SD	1:K:50:MET:O	2.79	0.41
1:K:174:MET:HE3	1:K:174:MET:HB2	1.76	0.41
1:K:203:ILE:HG21	1:K:231:LEU:CD2	2.46	0.41
1:K:305:LEU:C	1:K:305:LEU:CD1	2.93	0.41
1:K:1188:UNK:C	1:K:1190:UNK:N	2.83	0.41
2:L:10:MET:HE3	2:L:14:HIS:HB3	2.03	0.41
1:M:50:MET:SD	1:M:50:MET:O	2.79	0.41
1:M:102:MET:CA	1:M:105:MET:HB3	2.50	0.41
1:M:165:CYS:SG	1:M:165:CYS:O	2.78	0.41
1:M:260:CYS:HB3	1:M:262:ILE:CG2	2.51	0.41
2:N:109:VAL:HG12	2:T:109:VAL:HA	2.03	0.41
1:O:48:ILE:CD1	1:O:61:LEU:CD1	2.98	0.41
1:O:50:MET:SD	1:O:50:MET:O	2.79	0.41
1:O:269:LYS:O	1:O:269:LYS:HD3	2.20	0.41
1:O:368:MET:O	1:O:371:ARG:N	2.39	0.41
1:Q:14:ASP:OD1	1:Q:110:ARG:NE	2.53	0.41
1:Q:50:MET:SD	1:Q:50:MET:O	2.79	0.41
1:Q:133:LYS:C	1:Q:283:ILE:CD1	2.93	0.41
1:Q:196:LEU:HD12	1:Q:224:ILE:HG13	2.02	0.41
1:Q:823:UNK:O	1:Q:832:UNK:N	2.54	0.41
1:S:142:ARG:CB	1:S:143:PRO:HD2	2.49	0.41
1:S:184:LYS:HD3	1:S:185:ASN:H	1.83	0.41
1:S:248:GLN:O	1:S:268:PHE:CZ	2.73	0.41
1:S:287:HIS:CB	1:S:288:HIS:HD2	2.25	0.41
2:T:49:LEU:HD22	2:T:49:LEU:HA	1.69	0.41
1:U:18:VAL:HG21	1:U:103:THR:CG2	2.51	0.41
1:U:260:CYS:HB3	1:U:262:ILE:CG2	2.51	0.41
1:U:267:ARG:HG3	1:U:268:PHE:HD1	1.86	0.41
1:U:374:VAL:CG2	1:U:375:PHE:N	2.82	0.41
1:U:501:ILE:C	1:U:503:HIS:H	2.28	0.41
1:W:106:TYR:HE1	1:W:110:ARG:HB2	1.85	0.41
1:W:127:ARG:O	1:W:131:TYR:HB2	2.20	0.41
1:W:305:LEU:C	1:W:305:LEU:CD1	2.93	0.41
1:W:367:LYS:O	1:W:368:MET:C	2.63	0.41
1:W:435:ASN:HD22	1:W:435:ASN:HA	1.56	0.41
1:Y:106:TYR:HE1	1:Y:110:ARG:HB2	1.85	0.41
1:Y:133:LYS:C	1:Y:283:ILE:CD1	2.93	0.41
1:Y:243:VAL:C	1:Y:244:LEU:O	2.55	0.41
1:Y:244:LEU:HB3	1:Y:247:VAL:HG22	2.02	0.41
1:Y:371:ARG:C	1:Y:373:SER:H	2.28	0.41
1:Y:422:ILE:CG2	1:Y:427:LEU:HD12	2.46	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:a:48:ILE:CD1	1:a:61:LEU:CD1	2.98	0.41
1:a:50:MET:SD	1:a:50:MET:O	2.79	0.41
1:a:248:GLN:O	1:a:268:PHE:CZ	2.73	0.41
1:a:303:LYS:HD3	1:a:303:LYS:HA	1.70	0.41
1:a:410:LEU:CG	1:a:423:PRO:CD	2.47	0.41
1:a:491:PHE:HA	1:a:576:GLU:CG	2.47	0.41
2:b:81:GLN:CA	2:b:81:GLN:NE2	2.73	0.41
1:c:50:MET:SD	1:c:50:MET:O	2.79	0.41
1:c:165:CYS:SG	1:c:165:CYS:O	2.78	0.41
1:c:243:VAL:CG1	1:c:263:LEU:CG	2.73	0.41
1:c:664:UNK:O	1:c:672:UNK:HA	2.19	0.41
1:c:1131:UNK:N	1:c:1145:UNK:O	2.54	0.41
2:d:10:MET:HE3	2:d:14:HIS:HB3	2.03	0.41
1:e:50:MET:SD	1:e:50:MET:O	2.79	0.41
1:e:174:MET:HE3	1:e:174:MET:HB2	1.76	0.41
1:e:287:HIS:CB	1:e:288:HIS:HD2	2.25	0.41
1:e:305:LEU:C	1:e:305:LEU:CD1	2.93	0.41
1:e:495:ARG:HH11	1:e:495:ARG:HD2	1.68	0.41
1:e:1188:UNK:C	1:e:1190:UNK:N	2.83	0.41
2:f:18:ILE:O	2:f:22:LEU:HG	2.20	0.41
1:A:24:VAL:O	1:A:24:VAL:HG12	2.20	0.41
1:A:50:MET:SD	1:A:50:MET:O	2.79	0.41
2:B:10:MET:HE3	2:B:14:HIS:HB3	2.03	0.41
2:B:101:ASP:O	2:L:24:ILE:HD11	2.21	0.41
2:B:109:VAL:HA	2:L:109:VAL:HG12	2.03	0.41
1:C:127:ARG:O	1:C:131:TYR:HB2	2.20	0.41
1:C:153:LEU:CD2	1:C:267:ARG:HB2	2.48	0.41
1:C:165:CYS:SG	1:C:165:CYS:O	2.78	0.41
1:C:178:ILE:HG23	1:C:241:LEU:HB3	2.02	0.41
1:C:207:TRP:HE1	1:C:227:GLU:CB	2.28	0.41
1:C:321:PRO:O	1:C:325:SER:OG	2.35	0.41
1:C:405:LEU:O	1:C:406:HIS:C	2.61	0.41
1:E:18:VAL:HG21	1:E:103:THR:CG2	2.51	0.41
1:E:127:ARG:O	1:E:131:TYR:HB2	2.20	0.41
1:E:208:THR:O	1:E:208:THR:OG1	2.26	0.41
1:E:249:ASN:ND2	1:E:268:PHE:HE2	2.19	0.41
1:E:374:VAL:CG2	1:E:375:PHE:N	2.82	0.41
1:E:495:ARG:NH1	1:E:546:LEU:HA	2.36	0.41
1:E:631:UNK:HA	1:E:640:UNK:O	2.21	0.41
1:G:18:VAL:HG21	1:G:103:THR:CG2	2.51	0.41
1:G:184:LYS:HD3	1:G:185:ASN:H	1.83	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:248:GLN:O	1:G:268:PHE:CZ	2.73	0.41
1:G:483:ARG:NH2	1:G:528:ILE:HA	2.35	0.41
2:H:18:ILE:O	2:H:22:LEU:HG	2.20	0.41
2:H:109:VAL:HA	2:d:109:VAL:HG12	2.03	0.41
1:I:478:ILE:HG13	1:I:479:GLU:H	1.86	0.41
2:J:10:MET:HE3	2:J:14:HIS:HB3	2.03	0.41
1:K:269:LYS:O	1:K:269:LYS:HD3	2.20	0.41
1:K:360:LEU:HD12	1:K:365:TYR:CB	2.45	0.41
1:M:122:LYS:HG3	1:O:276:SER:HA	1.91	0.41
1:M:207:TRP:HE1	1:M:227:GLU:CB	2.28	0.41
1:M:367:LYS:O	1:M:368:MET:C	2.63	0.41
1:M:371:ARG:C	1:M:373:SER:H	2.28	0.41
1:M:384:ILE:O	1:M:388:LEU:HD21	2.20	0.41
1:M:557:LYS:HE3	1:M:558:TYR:N	2.34	0.41
1:M:664:UNK:O	1:M:672:UNK:HA	2.19	0.41
2:N:10:MET:HE3	2:N:14:HIS:HB3	2.03	0.41
1:O:52:LYS:CD	1:O:53:ASP:CG	2.85	0.41
1:O:127:ARG:O	1:O:131:TYR:HB2	2.20	0.41
1:O:221:ILE:O	1:O:224:ILE:HG22	2.21	0.41
1:O:267:ARG:HG3	1:O:268:PHE:HD1	1.86	0.41
1:O:290:MET:HB3	1:O:290:MET:HE2	1.81	0.41
1:Q:106:TYR:HE1	1:Q:110:ARG:HB2	1.85	0.41
1:Q:131:TYR:HE2	1:Q:135:ARG:NH1	2.19	0.41
1:Q:221:ILE:O	1:Q:224:ILE:HG22	2.21	0.41
1:Q:244:LEU:HB3	1:Q:247:VAL:HG22	2.02	0.41
1:Q:435:ASN:HD22	1:Q:435:ASN:HA	1.56	0.41
1:S:132:LEU:HD12	1:S:132:LEU:HA	1.80	0.41
1:S:243:VAL:C	1:S:244:LEU:O	2.55	0.41
1:S:357:LEU:HD23	1:S:357:LEU:HA	1.88	0.41
1:S:374:VAL:CG2	1:S:375:PHE:N	2.82	0.41
1:S:410:LEU:CG	1:S:423:PRO:CD	2.47	0.41
1:S:483:ARG:NH2	1:S:528:ILE:HA	2.35	0.41
2:T:18:ILE:O	2:T:22:LEU:HG	2.20	0.41
1:U:127:ARG:O	1:U:131:TYR:HB2	2.20	0.41
1:U:249:ASN:ND2	1:U:268:PHE:HE2	2.19	0.41
1:U:384:ILE:O	1:U:388:LEU:HD21	2.20	0.41
1:U:495:ARG:NH1	1:U:546:LEU:HA	2.36	0.41
1:U:631:UNK:HA	1:U:640:UNK:O	2.21	0.41
1:W:131:TYR:HE2	1:W:135:ARG:NH1	2.19	0.41
1:W:207:TRP:HE1	1:W:227:GLU:CB	2.28	0.41
1:W:384:ILE:O	1:W:388:LEU:HD21	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:W:410:LEU:HA	1:W:426:TYR:CE1	2.47	0.41
1:W:443:ILE:HD11	1:W:477:ASN:HB3	2.01	0.41
1:W:501:ILE:C	1:W:503:HIS:H	2.28	0.41
1:W:1131:UNK:N	1:W:1145:UNK:O	2.54	0.41
2:X:43:ILE:HG13	2:X:89:LEU:HD21	2.02	0.41
1:Y:14:ASP:OD1	1:Y:110:ARG:NE	2.53	0.41
1:Y:50:MET:SD	1:Y:50:MET:O	2.79	0.41
1:Y:131:TYR:HE2	1:Y:135:ARG:NH1	2.19	0.41
1:Y:196:LEU:HD12	1:Y:224:ILE:HG13	2.02	0.41
1:Y:221:ILE:O	1:Y:224:ILE:HG22	2.21	0.41
1:Y:823:UNK:O	1:Y:832:UNK:N	2.54	0.41
1:a:14:ASP:OD1	1:a:110:ARG:NE	2.53	0.41
1:a:52:LYS:CD	1:a:53:ASP:CG	2.85	0.41
1:a:221:ILE:O	1:a:224:ILE:HG22	2.21	0.41
1:a:287:HIS:CG	1:a:288:HIS:H	2.31	0.41
1:c:260:CYS:HB3	1:c:262:ILE:CG2	2.51	0.41
1:c:367:LYS:O	1:c:368:MET:C	2.63	0.41
1:c:388:LEU:N	1:c:388:LEU:CD2	2.73	0.41
1:c:410:LEU:HA	1:c:426:TYR:CE1	2.47	0.41
1:e:19:PHE:CE1	1:e:92:ILE:HD11	2.56	0.41
1:e:142:ARG:CB	1:e:143:PRO:HD2	2.49	0.41
1:e:165:CYS:SG	1:e:165:CYS:O	2.78	0.41
1:e:562:LEU:HD12	1:e:577:ALA:O	2.19	0.41
1:A:203:ILE:HG21	1:A:231:LEU:CD2	2.46	0.41
1:A:478:ILE:HG13	1:A:479:GLU:H	1.86	0.41
2:B:29:THR:HG22	2:B:99:CYS:SG	2.61	0.41
1:C:66:LEU:HD23	1:C:66:LEU:HA	1.86	0.41
1:C:131:TYR:HE2	1:C:135:ARG:NH1	2.19	0.41
1:C:260:CYS:HB3	1:C:262:ILE:CG2	2.51	0.41
1:C:305:LEU:C	1:C:305:LEU:CD1	2.93	0.41
1:C:410:LEU:HA	1:C:426:TYR:CE1	2.47	0.41
1:C:631:UNK:HA	1:C:640:UNK:O	2.21	0.41
1:C:1131:UNK:N	1:C:1145:UNK:O	2.54	0.41
1:E:245:LEU:HD23	1:E:245:LEU:HA	1.79	0.41
1:E:364:GLU:HG2	1:E:401:VAL:HG11	2.03	0.41
1:E:384:ILE:O	1:E:388:LEU:HD21	2.20	0.41
1:E:1131:UNK:N	1:E:1145:UNK:O	2.54	0.41
1:G:369:PHE:HE1	1:G:411:VAL:CG2	2.29	0.41
1:G:374:VAL:CG2	1:G:375:PHE:N	2.82	0.41
1:G:823:UNK:O	1:G:832:UNK:N	2.54	0.41
1:I:50:MET:SD	1:I:50:MET:O	2.79	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:495:ARG:NH1	1:I:546:LEU:HA	2.36	0.41
2:J:29:THR:HG22	2:J:99:CYS:SG	2.61	0.41
2:J:101:ASP:O	2:f:24:ILE:HD11	2.21	0.41
1:K:165:CYS:SG	1:K:165:CYS:O	2.78	0.41
1:K:202:GLN:O	1:K:203:ILE:C	2.64	0.41
2:L:18:ILE:O	2:L:22:LEU:HG	2.20	0.41
2:L:43:ILE:HG13	2:L:89:LEU:HD21	2.02	0.41
1:M:24:VAL:O	1:M:24:VAL:HG12	2.20	0.41
1:M:86:LYS:HE3	1:M:89:MET:CE	2.42	0.41
1:M:88:LEU:CA	1:M:91:PRO:CD	2.97	0.41
1:M:229:ARG:O	1:M:233:LYS:HD3	2.14	0.41
1:M:269:LYS:O	1:M:269:LYS:HD3	2.20	0.41
1:M:404:LYS:HA	1:M:404:LYS:CE	2.40	0.41
1:M:1234:UNK:HA	1:M:1243:UNK:O	2.21	0.41
1:O:381:ILE:N	1:O:420:ILE:O	2.48	0.41
1:O:567:MET:HE2	1:O:567:MET:HB3	1.96	0.41
1:Q:18:VAL:HG21	1:Q:103:THR:CG2	2.51	0.41
1:Q:193:LEU:O	1:Q:197:GLN:N	2.50	0.41
1:Q:631:UNK:HA	1:Q:640:UNK:O	2.21	0.41
2:R:43:ILE:HG13	2:R:89:LEU:HD21	2.02	0.41
2:R:109:VAL:HA	2:X:109:VAL:HG12	2.03	0.41
1:S:18:VAL:HG21	1:S:103:THR:CG2	2.51	0.41
1:S:364:GLU:HG2	1:S:401:VAL:HG11	2.03	0.41
1:S:1234:UNK:HA	1:S:1243:UNK:O	2.21	0.41
1:U:47:HIS:O	1:U:50:MET:HB3	2.12	0.41
1:U:287:HIS:CG	1:U:288:HIS:H	2.31	0.41
1:U:364:GLU:HG2	1:U:401:VAL:HG11	2.03	0.41
1:U:1131:UNK:N	1:U:1145:UNK:O	2.54	0.41
1:W:178:ILE:HG23	1:W:241:LEU:HB3	2.02	0.41
1:W:260:CYS:HB3	1:W:262:ILE:CG2	2.51	0.41
1:W:300:LEU:O	1:W:304:TYR:HE1	2.02	0.41
1:W:405:LEU:O	1:W:406:HIS:C	2.61	0.41
1:W:631:UNK:HA	1:W:640:UNK:O	2.21	0.41
1:Y:178:ILE:HG23	1:Y:241:LEU:HB3	2.02	0.41
1:Y:237:TYR:CD1	1:Y:237:TYR:N	2.80	0.41
1:Y:372:LEU:O	1:Y:373:SER:C	2.63	0.41
1:Y:631:UNK:HA	1:Y:640:UNK:O	2.21	0.41
2:Z:43:ILE:HG13	2:Z:89:LEU:HD21	2.02	0.41
2:Z:57:GLY:N	2:Z:59:PRO:HD2	2.34	0.41
1:a:127:ARG:O	1:a:131:TYR:HB2	2.20	0.41
1:a:336:ALA:N	1:a:340:ASN:OD1	2.54	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:c:24:VAL:O	1:c:24:VAL:HG12	2.20	0.41
1:c:48:ILE:CD1	1:c:61:LEU:CD1	2.98	0.41
1:c:102:MET:CA	1:c:105:MET:HB3	2.50	0.41
1:c:203:ILE:HG21	1:c:231:LEU:CD2	2.46	0.41
1:c:269:LYS:O	1:c:269:LYS:HD3	2.20	0.41
1:c:283:ILE:CG2	1:c:283:ILE:O	2.54	0.41
1:c:336:ALA:CB	1:c:340:ASN:OD1	2.56	0.41
1:c:384:ILE:O	1:c:388:LEU:HD21	2.20	0.41
1:c:478:ILE:HG13	1:c:479:GLU:H	1.86	0.41
1:c:1234:UNK:HA	1:c:1243:UNK:O	2.21	0.41
1:e:196:LEU:HD12	1:e:224:ILE:HG13	2.02	0.41
1:e:202:GLN:O	1:e:203:ILE:C	2.64	0.41
1:e:212:ASP:CB	1:e:220:ARG:HH11	2.18	0.41
1:e:252:ALA:O	1:e:255:ALA:N	2.53	0.41
1:e:269:LYS:O	1:e:269:LYS:HD3	2.20	0.41
1:e:491:PHE:HA	1:e:576:GLU:CG	2.47	0.41
1:A:267:ARG:HG3	1:A:268:PHE:HD1	1.86	0.41
1:A:293:THR:HA	1:A:294:PRO:HD3	1.96	0.41
1:A:364:GLU:HG2	1:A:401:VAL:HG11	2.03	0.41
1:A:368:MET:O	1:A:371:ARG:N	2.39	0.41
1:A:495:ARG:NH1	1:A:546:LEU:HA	2.36	0.41
1:C:422:ILE:HB	1:C:427:LEU:HD11	1.94	0.41
2:D:109:VAL:HG12	2:Z:109:VAL:HA	2.03	0.41
1:E:118:GLN:C	1:E:120:PHE:H	2.28	0.41
1:E:411:VAL:H	1:E:423:PRO:HD3	1.84	0.41
1:G:50:MET:SD	1:G:50:MET:O	2.79	0.41
1:G:260:CYS:HB3	1:G:262:ILE:CG2	2.51	0.41
1:G:287:HIS:CB	1:G:288:HIS:HD2	2.25	0.41
1:G:364:GLU:HG2	1:G:401:VAL:HG11	2.03	0.41
1:G:557:LYS:HE2	1:G:558:TYR:H	1.85	0.41
1:G:1234:UNK:HA	1:G:1243:UNK:O	2.21	0.41
2:H:101:ASP:O	2:d:24:ILE:HD11	2.21	0.41
1:I:364:GLU:HG2	1:I:401:VAL:HG11	2.03	0.41
1:I:657:UNK:C	1:I:658:UNK:H	2.09	0.41
1:K:127:ARG:O	1:K:131:TYR:HB2	2.20	0.41
1:K:196:LEU:HD12	1:K:224:ILE:HG13	2.02	0.41
1:K:212:ASP:CB	1:K:220:ARG:HH11	2.18	0.41
1:K:269:LYS:O	1:K:273:ASP:N	2.54	0.41
1:K:287:HIS:CB	1:K:288:HIS:HD2	2.25	0.41
1:K:495:ARG:NH1	1:K:546:LEU:HA	2.36	0.41
2:L:29:THR:HG22	2:L:99:CYS:SG	2.61	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:48:ILE:CD1	1:M:61:LEU:CD1	2.98	0.41
1:M:52:LYS:CD	1:M:53:ASP:CG	2.85	0.41
1:M:118:GLN:C	1:M:120:PHE:H	2.28	0.41
1:M:274:PHE:HB3	1:M:275:LEU:CD1	2.37	0.41
1:M:283:ILE:CG2	1:M:283:ILE:O	2.54	0.41
1:M:290:MET:HB3	1:M:290:MET:HE2	1.81	0.41
1:M:478:ILE:HG13	1:M:479:GLU:H	1.86	0.41
2:N:24:ILE:HD11	2:T:101:ASP:O	2.21	0.41
2:N:53:GLN:O	2:N:71:GLN:NE2	2.44	0.41
1:O:14:ASP:OD1	1:O:110:ARG:NE	2.53	0.41
1:O:242:LEU:HD22	1:O:262:ILE:HG22	2.01	0.41
1:O:274:PHE:CD2	1:O:275:LEU:CD1	3.03	0.41
1:O:336:ALA:N	1:O:340:ASN:OD1	2.54	0.41
1:O:371:ARG:C	1:O:373:SER:N	2.77	0.41
1:O:1098:UNK:C	1:O:1100:UNK:N	2.80	0.41
1:Q:178:ILE:HG23	1:Q:241:LEU:HB3	2.02	0.41
1:Q:367:LYS:O	1:Q:368:MET:C	2.63	0.41
1:Q:372:LEU:O	1:Q:373:SER:C	2.63	0.41
1:S:260:CYS:HB3	1:S:262:ILE:CG2	2.51	0.41
1:S:369:PHE:HE1	1:S:411:VAL:CG2	2.29	0.41
1:S:823:UNK:O	1:S:832:UNK:N	2.54	0.41
1:U:118:GLN:C	1:U:120:PHE:H	2.28	0.41
1:U:165:CYS:SG	1:U:165:CYS:O	2.78	0.41
2:V:81:GLN:CA	2:V:81:GLN:NE2	2.73	0.41
1:W:24:VAL:O	1:W:24:VAL:HG12	2.20	0.41
1:W:153:LEU:CD2	1:W:267:ARG:HB2	2.48	0.41
1:W:165:CYS:SG	1:W:165:CYS:O	2.78	0.41
1:W:192:VAL:HG23	1:W:221:ILE:CD1	2.30	0.41
1:W:196:LEU:HD12	1:W:224:ILE:HG13	2.02	0.41
1:W:235:LYS:HZ3	1:W:238:GLU:CG	2.34	0.41
1:W:411:VAL:H	1:W:423:PRO:HD3	1.84	0.41
1:Y:18:VAL:HG21	1:Y:103:THR:CG2	2.51	0.41
1:Y:127:ARG:O	1:Y:131:TYR:HB2	2.20	0.41
1:Y:1131:UNK:N	1:Y:1145:UNK:O	2.54	0.41
1:a:267:ARG:HG3	1:a:268:PHE:HD1	1.86	0.41
1:c:52:LYS:CD	1:c:53:ASP:CG	2.85	0.41
1:c:86:LYS:HE3	1:c:89:MET:CE	2.42	0.41
1:c:88:LEU:CA	1:c:91:PRO:CD	2.97	0.41
1:c:118:GLN:C	1:c:120:PHE:H	2.28	0.41
1:c:127:ARG:O	1:c:131:TYR:HB2	2.20	0.41
1:c:248:GLN:O	1:c:268:PHE:CZ	2.73	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:c:267:ARG:HG3	1:c:268:PHE:HD1	1.86	0.41
1:c:274:PHE:HB3	1:c:275:LEU:CD1	2.37	0.41
1:c:279:THR:CG2	1:e:118:GLN:HE21	2.15	0.41
2:d:77:LEU:HA	2:d:77:LEU:HD12	1.80	0.41
1:e:269:LYS:O	1:e:273:ASP:N	2.54	0.41
1:e:371:ARG:C	1:e:373:SER:H	2.28	0.41
2:f:43:ILE:HG13	2:f:89:LEU:HD21	2.02	0.41
1:A:18:VAL:HG21	1:A:103:THR:CG2	2.51	0.41
1:A:127:ARG:O	1:A:131:TYR:HB2	2.20	0.41
1:A:202:GLN:O	1:A:203:ILE:C	2.64	0.41
1:A:212:ASP:CB	1:A:220:ARG:HH11	2.18	0.41
1:A:384:ILE:O	1:A:388:LEU:HD21	2.20	0.41
1:A:1131:UNK:N	1:A:1145:UNK:O	2.54	0.41
2:B:104:VAL:HG23	2:B:105:LEU:N	2.36	0.41
1:C:18:VAL:HG21	1:C:103:THR:CG2	2.51	0.41
1:C:24:VAL:O	1:C:24:VAL:HG12	2.20	0.41
1:C:142:ARG:CB	1:C:143:PRO:HD2	2.49	0.41
1:C:196:LEU:HD12	1:C:224:ILE:HG13	2.02	0.41
1:C:210:ARG:HB2	1:C:210:ARG:NH1	2.25	0.41
1:C:221:ILE:O	1:C:224:ILE:HG22	2.21	0.41
1:C:284:SER:O	1:C:290:MET:HG3	2.21	0.41
1:C:300:LEU:O	1:C:304:TYR:HE1	2.02	0.41
1:C:364:GLU:HG2	1:C:401:VAL:HG11	2.03	0.41
1:C:411:VAL:H	1:C:423:PRO:HD3	1.84	0.41
1:C:740:UNK:C	1:C:775:UNK:CB	2.98	0.41
1:C:1234:UNK:HA	1:C:1243:UNK:O	2.21	0.41
1:E:118:GLN:HE21	1:G:279:THR:CG2	2.15	0.41
1:E:165:CYS:SG	1:E:165:CYS:O	2.78	0.41
1:E:410:LEU:CD2	1:E:426:TYR:C	2.94	0.41
1:E:740:UNK:C	1:E:775:UNK:CB	2.99	0.41
1:E:1234:UNK:HA	1:E:1243:UNK:O	2.21	0.41
2:F:109:VAL:HG12	2:b:109:VAL:HA	2.03	0.41
1:G:132:LEU:HD12	1:G:132:LEU:HA	1.80	0.41
1:G:244:LEU:HB3	1:G:247:VAL:HG22	2.02	0.41
1:G:249:ASN:ND2	1:G:268:PHE:HE2	2.19	0.41
1:G:322:ARG:HA	1:G:322:ARG:HD2	1.64	0.41
1:G:410:LEU:CD2	1:G:426:TYR:C	2.94	0.41
1:G:486:LEU:HA	1:G:488:ARG:HH12	1.86	0.41
1:G:495:ARG:NH1	1:G:546:LEU:HA	2.36	0.41
1:G:1131:UNK:N	1:G:1145:UNK:O	2.54	0.41
2:H:104:VAL:HG23	2:H:105:LEU:N	2.36	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:18:VAL:HG21	1:I:103:THR:CG2	2.51	0.41
1:I:127:ARG:O	1:I:131:TYR:HB2	2.20	0.41
1:I:202:GLN:O	1:I:203:ILE:C	2.64	0.41
1:I:203:ILE:HG21	1:I:231:LEU:CD2	2.46	0.41
1:I:267:ARG:HG3	1:I:268:PHE:HD1	1.86	0.41
1:I:368:MET:O	1:I:371:ARG:N	2.39	0.41
1:I:384:ILE:O	1:I:388:LEU:HD21	2.20	0.41
1:I:491:PHE:HA	1:I:576:GLU:CG	2.47	0.41
1:I:1131:UNK:N	1:I:1145:UNK:O	2.54	0.41
1:I:1234:UNK:HA	1:I:1243:UNK:O	2.21	0.41
2:J:24:ILE:HD11	2:f:101:ASP:O	2.21	0.41
2:J:104:VAL:HG23	2:J:105:LEU:N	2.36	0.41
1:K:24:VAL:O	1:K:24:VAL:HG12	2.20	0.41
1:K:156:GLY:O	1:K:160:VAL:HG23	2.21	0.41
1:K:227:GLU:OE2	1:K:230:ARG:NH1	2.53	0.41
1:K:267:ARG:HG3	1:K:268:PHE:HD1	1.86	0.41
1:K:302:LEU:HD11	1:K:311:ASP:CB	2.51	0.41
1:K:381:ILE:HA	1:K:382:PRO:HD3	1.77	0.41
1:K:384:ILE:O	1:K:388:LEU:HD21	2.20	0.41
1:M:127:ARG:O	1:M:131:TYR:HB2	2.20	0.41
1:M:248:GLN:O	1:M:268:PHE:CZ	2.73	0.41
1:M:252:ALA:O	1:M:255:ALA:N	2.54	0.41
1:M:267:ARG:HG3	1:M:268:PHE:HD1	1.86	0.41
1:M:285:LEU:O	1:M:290:MET:HB2	2.21	0.41
1:M:287:HIS:CB	1:M:288:HIS:CD2	3.03	0.41
1:M:388:LEU:N	1:M:388:LEU:CD2	2.73	0.41
1:M:410:LEU:CD2	1:M:426:TYR:C	2.94	0.41
1:M:740:UNK:C	1:M:775:UNK:CB	2.99	0.41
1:O:88:LEU:CA	1:O:91:PRO:CD	2.97	0.41
1:O:131:TYR:HE2	1:O:135:ARG:NH1	2.19	0.41
1:O:133:LYS:C	1:O:283:ILE:CD1	2.93	0.41
1:O:174:MET:HB2	1:O:174:MET:HE3	1.76	0.41
1:O:178:ILE:HG23	1:O:241:LEU:HB3	2.02	0.41
1:O:279:THR:O	1:O:280:THR:CB	2.65	0.41
1:O:495:ARG:NH1	1:O:546:LEU:HA	2.36	0.41
1:O:1234:UNK:HA	1:O:1243:UNK:O	2.21	0.41
2:P:109:VAL:HA	2:V:109:VAL:HG12	2.03	0.41
1:Q:127:ARG:O	1:Q:131:TYR:HB2	2.20	0.41
1:Q:245:LEU:HD23	1:Q:245:LEU:HA	1.79	0.41
1:Q:285:LEU:O	1:Q:290:MET:HB2	2.21	0.41
1:Q:301:LEU:C	1:Q:301:LEU:CD1	2.86	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Q:305:LEU:C	1:Q:305:LEU:CD1	2.93	0.41
1:Q:1131:UNK:N	1:Q:1145:UNK:O	2.54	0.41
2:R:57:GLY:N	2:R:59:PRO:HD2	2.34	0.41
1:S:50:MET:SD	1:S:50:MET:O	2.79	0.41
1:S:86:LYS:HD2	1:S:86:LYS:HA	1.53	0.41
1:S:200:LEU:CD2	1:S:207:TRP:CD1	3.01	0.41
1:S:235:LYS:HZ1	1:S:238:GLU:HG2	1.85	0.41
1:S:249:ASN:ND2	1:S:268:PHE:HE2	2.19	0.41
1:S:410:LEU:CD2	1:S:426:TYR:C	2.94	0.41
1:S:486:LEU:HA	1:S:488:ARG:HH12	1.86	0.41
1:S:495:ARG:NH1	1:S:546:LEU:HA	2.36	0.41
1:S:557:LYS:HE2	1:S:558:TYR:H	1.85	0.41
1:S:740:UNK:C	1:S:775:UNK:CB	2.98	0.41
1:S:1131:UNK:N	1:S:1145:UNK:O	2.54	0.41
2:T:104:VAL:HG23	2:T:105:LEU:N	2.36	0.41
1:U:305:LEU:C	1:U:305:LEU:CD1	2.93	0.41
1:U:353:ILE:HG23	1:U:426:TYR:CD2	2.54	0.41
1:U:410:LEU:CD2	1:U:426:TYR:C	2.94	0.41
1:U:411:VAL:H	1:U:423:PRO:HD3	1.84	0.41
2:V:65:LYS:HD3	2:V:65:LYS:HA	1.85	0.41
2:V:82:ARG:HA	2:V:82:ARG:HD2	1.82	0.41
1:W:18:VAL:HG21	1:W:103:THR:CG2	2.51	0.41
1:W:50:MET:SD	1:W:50:MET:O	2.79	0.41
1:W:142:ARG:CB	1:W:143:PRO:HD2	2.49	0.41
1:W:221:ILE:O	1:W:224:ILE:HG22	2.21	0.41
1:W:364:GLU:HG2	1:W:401:VAL:HG11	2.03	0.41
1:W:371:ARG:C	1:W:373:SER:H	2.28	0.41
1:W:455:SER:OG	1:W:459:ILE:O	2.12	0.41
1:W:740:UNK:C	1:W:775:UNK:CB	2.98	0.41
1:W:1234:UNK:HA	1:W:1243:UNK:O	2.21	0.41
1:Y:193:LEU:O	1:Y:197:GLN:N	2.50	0.41
1:Y:267:ARG:HG3	1:Y:268:PHE:HD1	1.86	0.41
1:Y:285:LEU:O	1:Y:290:MET:HB2	2.21	0.41
1:Y:301:LEU:C	1:Y:301:LEU:CD1	2.86	0.41
1:Y:305:LEU:C	1:Y:305:LEU:CD1	2.93	0.41
1:Y:367:LYS:O	1:Y:368:MET:C	2.63	0.41
1:Y:410:LEU:HA	1:Y:426:TYR:CE1	2.47	0.41
1:Y:1098:UNK:C	1:Y:1100:UNK:N	2.80	0.41
2:Z:78:LYS:HD3	2:Z:78:LYS:HA	1.94	0.41
1:a:88:LEU:CA	1:a:91:PRO:CD	2.97	0.41
1:a:128:LEU:HD23	1:a:128:LEU:HA	1.86	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:a:133:LYS:C	1:a:283:ILE:CD1	2.93	0.41
1:a:242:LEU:HD22	1:a:262:ILE:HG22	2.01	0.41
1:a:274:PHE:CD2	1:a:275:LEU:CD1	3.03	0.41
1:a:371:ARG:C	1:a:373:SER:N	2.77	0.41
1:a:381:ILE:N	1:a:420:ILE:O	2.48	0.41
1:a:495:ARG:NH1	1:a:546:LEU:HA	2.36	0.41
1:a:1098:UNK:C	1:a:1100:UNK:N	2.80	0.41
1:a:1234:UNK:HA	1:a:1243:UNK:O	2.21	0.41
1:c:252:ALA:O	1:c:255:ALA:N	2.54	0.41
1:c:285:LEU:O	1:c:290:MET:HB2	2.21	0.41
1:c:287:HIS:CB	1:c:288:HIS:CD2	3.03	0.41
1:e:127:ARG:O	1:e:131:TYR:HB2	2.20	0.41
1:e:156:GLY:O	1:e:160:VAL:HG23	2.21	0.41
1:e:302:LEU:HD11	1:e:311:ASP:CB	2.51	0.41
1:e:360:LEU:HD12	1:e:365:TYR:CB	2.45	0.41
1:e:495:ARG:NH1	1:e:546:LEU:HA	2.36	0.41
2:f:29:THR:HG22	2:f:99:CYS:SG	2.61	0.41
2:f:49:LEU:HA	2:f:49:LEU:HD22	1.69	0.41
1:A:285:LEU:O	1:A:290:MET:HB2	2.21	0.41
1:A:410:LEU:CD2	1:A:426:TYR:C	2.94	0.41
1:A:740:UNK:C	1:A:775:UNK:CB	2.99	0.41
1:A:1234:UNK:HA	1:A:1243:UNK:O	2.21	0.41
2:B:24:ILE:HD11	2:L:101:ASP:O	2.21	0.41
1:C:40:LEU:HD11	1:C:61:LEU:HD11	2.03	0.41
1:C:184:LYS:CG	1:C:185:ASN:N	2.84	0.41
1:C:285:LEU:O	1:C:290:MET:HB2	2.21	0.41
1:C:371:ARG:C	1:C:373:SER:H	2.28	0.41
1:C:491:PHE:HA	1:C:576:GLU:CG	2.47	0.41
1:E:47:HIS:O	1:E:50:MET:HB3	2.12	0.41
1:E:353:ILE:HG23	1:E:426:TYR:CD2	2.54	0.41
1:G:200:LEU:CD2	1:G:207:TRP:CD1	3.01	0.41
1:G:235:LYS:HZ1	1:G:238:GLU:HG2	1.85	0.41
1:G:267:ARG:HG3	1:G:268:PHE:HD1	1.86	0.41
1:G:740:UNK:C	1:G:775:UNK:CB	2.98	0.41
1:I:212:ASP:CB	1:I:220:ARG:HH11	2.18	0.41
1:I:410:LEU:CD2	1:I:426:TYR:C	2.94	0.41
1:K:410:LEU:CD2	1:K:426:TYR:C	2.94	0.41
1:K:495:ARG:HH11	1:K:495:ARG:HD2	1.68	0.41
1:M:202:GLN:O	1:M:203:ILE:C	2.64	0.41
1:M:203:ILE:HG21	1:M:231:LEU:CD2	2.46	0.41
1:M:243:VAL:CG1	1:M:263:LEU:CG	2.73	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:302:LEU:HD11	1:M:311:ASP:CB	2.51	0.41
1:M:336:ALA:CB	1:M:340:ASN:OD1	2.56	0.41
1:M:410:LEU:HA	1:M:426:TYR:CE1	2.47	0.41
1:M:495:ARG:NH1	1:M:546:LEU:HA	2.36	0.41
1:M:580:GLN:HG2	1:M:580:GLN:H	1.70	0.41
1:O:196:LEU:HD12	1:O:224:ILE:HG13	2.02	0.41
1:O:269:LYS:O	1:O:273:ASP:N	2.54	0.41
1:O:405:LEU:O	1:O:406:HIS:C	2.61	0.41
1:O:631:UNK:HA	1:O:640:UNK:O	2.21	0.41
1:Q:237:TYR:CD1	1:Q:237:TYR:N	2.80	0.41
1:Q:242:LEU:O	1:Q:262:ILE:CB	2.67	0.41
1:Q:267:ARG:HG3	1:Q:268:PHE:HD1	1.86	0.41
1:Q:410:LEU:HA	1:Q:426:TYR:CE1	2.47	0.41
1:Q:1098:UNK:C	1:Q:1100:UNK:N	2.80	0.41
2:R:78:LYS:HD3	2:R:78:LYS:HA	1.94	0.41
1:S:244:LEU:HB3	1:S:247:VAL:HG22	2.02	0.41
1:U:15:ILE:HD11	1:U:95:GLU:O	2.19	0.41
1:U:131:TYR:HE2	1:U:135:ARG:NH1	2.19	0.41
1:U:208:THR:O	1:U:208:THR:OG1	2.26	0.41
1:U:284:SER:O	1:U:290:MET:HG3	2.21	0.41
1:U:740:UNK:C	1:U:775:UNK:CB	2.99	0.41
1:U:1234:UNK:HA	1:U:1243:UNK:O	2.21	0.41
2:V:44:LEU:HB3	2:V:48:MET:HB2	2.00	0.41
1:W:40:LEU:HD11	1:W:61:LEU:HD11	2.03	0.41
1:W:284:SER:O	1:W:290:MET:HG3	2.21	0.41
1:Y:242:LEU:O	1:Y:262:ILE:CB	2.67	0.41
1:a:131:TYR:HE2	1:a:135:ARG:NH1	2.19	0.41
1:a:196:LEU:HD12	1:a:224:ILE:HG13	2.02	0.41
1:a:276:SER:HA	1:c:122:LYS:HG3	1.91	0.41
1:a:740:UNK:C	1:a:775:UNK:CB	2.98	0.41
2:b:10:MET:HE3	2:b:14:HIS:HB3	2.03	0.41
2:b:18:ILE:O	2:b:22:LEU:HG	2.20	0.41
2:b:29:THR:HG22	2:b:99:CYS:SG	2.61	0.41
1:c:290:MET:HB3	1:c:290:MET:HE2	1.81	0.41
1:c:302:LEU:HD11	1:c:311:ASP:CB	2.51	0.41
1:c:410:LEU:CD2	1:c:426:TYR:C	2.94	0.41
1:c:495:ARG:NH1	1:c:546:LEU:HA	2.36	0.41
1:c:740:UNK:C	1:c:775:UNK:CB	2.99	0.41
1:e:24:VAL:O	1:e:24:VAL:HG12	2.20	0.41
1:e:267:ARG:HG3	1:e:268:PHE:HD1	1.86	0.41
1:e:384:ILE:O	1:e:388:LEU:HD21	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:e:410:LEU:CD2	1:e:426:TYR:C	2.94	0.41
1:A:244:LEU:HB3	1:A:247:VAL:HG22	2.02	0.40
1:A:371:ARG:C	1:A:373:SER:N	2.77	0.40
2:B:38:CYS:SG	2:B:39:VAL:N	2.94	0.40
1:C:50:MET:SD	1:C:50:MET:O	2.79	0.40
1:C:267:ARG:HG3	1:C:268:PHE:HD1	1.86	0.40
2:D:18:ILE:O	2:D:22:LEU:HG	2.20	0.40
2:D:29:THR:HG22	2:D:99:CYS:SG	2.61	0.40
1:E:102:MET:CA	1:E:105:MET:HB3	2.50	0.40
1:E:131:TYR:HE2	1:E:135:ARG:NH1	2.19	0.40
1:E:133:LYS:C	1:E:283:ILE:CD1	2.93	0.40
1:E:221:ILE:O	1:E:224:ILE:HG22	2.21	0.40
1:E:284:SER:O	1:E:290:MET:HG3	2.21	0.40
1:E:302:LEU:HD11	1:E:311:ASP:CB	2.51	0.40
1:E:696:UNK:O	2:F:60:PHE:CZ	2.75	0.40
1:E:771:UNK:O	1:E:775:UNK:N	2.55	0.40
2:F:44:LEU:HB3	2:F:48:MET:HB2	2.00	0.40
1:G:153:LEU:CD2	1:G:267:ARG:HB2	2.48	0.40
1:I:82:ARG:HG2	1:I:82:ARG:NH1	2.28	0.40
1:I:97:ARG:C	1:I:98:GLN:HG2	2.45	0.40
1:I:156:GLY:O	1:I:160:VAL:HG23	2.21	0.40
1:I:245:LEU:HD23	1:I:245:LEU:HA	1.79	0.40
1:I:285:LEU:O	1:I:290:MET:HB2	2.21	0.40
1:I:367:LYS:O	1:I:368:MET:C	2.63	0.40
1:I:486:LEU:HA	1:I:488:ARG:HH12	1.86	0.40
2:J:22:LEU:HD11	2:J:77:LEU:CD1	2.34	0.40
2:J:38:CYS:SG	2:J:39:VAL:N	2.94	0.40
1:K:260:CYS:HB3	1:K:262:ILE:CG2	2.51	0.40
1:K:447:TYR:CE1	1:K:482:GLU:HG2	2.56	0.40
1:K:496:PHE:HB2	1:K:561:LEU:HD22	2.04	0.40
1:M:196:LEU:HD12	1:M:224:ILE:HG13	2.02	0.40
1:M:235:LYS:HZ1	1:M:238:GLU:HG2	1.83	0.40
1:M:410:LEU:CG	1:M:426:TYR:CD1	3.04	0.40
1:M:447:TYR:CE1	1:M:482:GLU:HG2	2.56	0.40
1:M:559:THR:HA	1:M:562:LEU:CD2	2.49	0.40
1:O:740:UNK:C	1:O:775:UNK:CB	2.98	0.40
1:O:771:UNK:O	1:O:775:UNK:N	2.55	0.40
2:P:10:MET:HE3	2:P:14:HIS:HB3	2.03	0.40
2:P:29:THR:HG22	2:P:99:CYS:SG	2.61	0.40
1:Q:40:LEU:HD11	1:Q:61:LEU:HD11	2.03	0.40
1:Q:269:LYS:O	1:Q:269:LYS:HD3	2.20	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Q:302:LEU:HD11	1:Q:311:ASP:CB	2.51	0.40
1:S:631:UNK:HA	1:S:640:UNK:O	2.21	0.40
1:U:133:LYS:C	1:U:283:ILE:CD1	2.93	0.40
1:U:229:ARG:NH2	1:U:229:ARG:CG	2.81	0.40
1:U:302:LEU:HD11	1:U:311:ASP:CB	2.51	0.40
1:U:405:LEU:HD22	1:U:405:LEU:HA	1.90	0.40
1:U:696:UNK:O	2:V:60:PHE:CZ	2.75	0.40
1:W:66:LEU:HD23	1:W:66:LEU:HA	1.86	0.40
1:W:184:LYS:CG	1:W:185:ASN:N	2.84	0.40
1:W:285:LEU:O	1:W:290:MET:HB2	2.21	0.40
2:X:18:ILE:O	2:X:22:LEU:HG	2.20	0.40
1:Y:40:LEU:HD11	1:Y:61:LEU:HD11	2.03	0.40
1:Y:269:LYS:O	1:Y:269:LYS:HD3	2.20	0.40
1:Y:302:LEU:HD11	1:Y:311:ASP:CB	2.51	0.40
1:a:178:ILE:HG23	1:a:241:LEU:HB3	2.02	0.40
1:a:203:ILE:HG21	1:a:231:LEU:CD2	2.46	0.40
1:a:269:LYS:O	1:a:273:ASP:N	2.54	0.40
1:a:279:THR:O	1:a:280:THR:CB	2.65	0.40
1:a:372:LEU:O	1:a:373:SER:C	2.63	0.40
1:a:405:LEU:O	1:a:406:HIS:C	2.61	0.40
1:a:631:UNK:HA	1:a:640:UNK:O	2.21	0.40
1:a:771:UNK:O	1:a:775:UNK:N	2.55	0.40
1:a:823:UNK:O	1:a:832:UNK:N	2.54	0.40
1:a:1131:UNK:N	1:a:1145:UNK:O	2.54	0.40
1:c:202:GLN:O	1:c:203:ILE:C	2.64	0.40
1:c:274:PHE:CD2	1:c:275:LEU:CD1	3.03	0.40
1:c:447:TYR:CE1	1:c:482:GLU:HG2	2.56	0.40
1:c:496:PHE:HB2	1:c:561:LEU:HD22	2.04	0.40
2:d:29:THR:HG22	2:d:99:CYS:SG	2.61	0.40
1:e:172:CYS:HA	1:e:176:PHE:CE1	2.56	0.40
1:e:260:CYS:HB3	1:e:262:ILE:CG2	2.51	0.40
1:e:368:MET:O	1:e:371:ARG:N	2.39	0.40
1:e:496:PHE:HB2	1:e:561:LEU:HD22	2.04	0.40
2:f:78:LYS:HD3	2:f:78:LYS:HA	1.94	0.40
1:A:97:ARG:C	1:A:98:GLN:HG2	2.45	0.40
1:A:156:GLY:O	1:A:160:VAL:HG23	2.21	0.40
1:A:192:VAL:HG12	1:A:255:ALA:HB1	2.04	0.40
1:A:249:ASN:ND2	1:A:268:PHE:HE2	2.19	0.40
1:A:367:LYS:O	1:A:368:MET:C	2.63	0.40
1:A:424:SER:O	1:A:428:GLU:N	2.49	0.40
1:A:447:TYR:CE1	1:A:482:GLU:HG2	2.56	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:486:LEU:HA	1:A:488:ARG:HH12	1.86	0.40
1:A:491:PHE:HA	1:A:576:GLU:CG	2.47	0.40
1:A:631:UNK:HA	1:A:640:UNK:O	2.21	0.40
2:B:65:LYS:HA	2:B:65:LYS:HD3	1.85	0.40
1:C:269:LYS:O	1:C:273:ASP:N	2.54	0.40
1:C:410:LEU:CD2	1:C:426:TYR:C	2.94	0.40
1:C:696:UNK:O	2:D:60:PHE:CZ	2.75	0.40
1:E:15:ILE:HD11	1:E:95:GLU:O	2.19	0.40
1:E:277:ALA:O	1:E:278:ALA:CB	2.70	0.40
2:F:29:THR:HG22	2:F:99:CYS:SG	2.61	0.40
2:F:101:ASP:O	2:b:24:ILE:HD11	2.21	0.40
1:G:41:SER:CB	1:G:44:GLU:H	2.34	0.40
1:G:172:CYS:HA	1:G:176:PHE:CE1	2.56	0.40
1:G:192:VAL:HG12	1:G:255:ALA:HB1	2.03	0.40
1:G:302:LEU:HD11	1:G:311:ASP:CB	2.51	0.40
1:G:631:UNK:HA	1:G:640:UNK:O	2.21	0.40
2:H:10:MET:HE3	2:H:14:HIS:HB3	2.03	0.40
2:H:29:THR:HG22	2:H:99:CYS:SG	2.61	0.40
2:H:38:CYS:SG	2:H:39:VAL:N	2.94	0.40
1:I:19:PHE:CE1	1:I:92:ILE:HD11	2.56	0.40
1:I:192:VAL:HG12	1:I:255:ALA:HB1	2.04	0.40
1:I:249:ASN:ND2	1:I:268:PHE:HE2	2.19	0.40
1:I:252:ALA:O	1:I:255:ALA:N	2.54	0.40
1:I:371:ARG:C	1:I:373:SER:N	2.77	0.40
1:I:631:UNK:HA	1:I:640:UNK:O	2.21	0.40
1:I:740:UNK:C	1:I:775:UNK:CB	2.99	0.40
1:K:18:VAL:HG21	1:K:103:THR:CG2	2.51	0.40
1:K:106:TYR:HH	1:K:110:ARG:NH2	2.08	0.40
1:K:410:LEU:CG	1:K:426:TYR:CD1	3.04	0.40
2:L:49:LEU:HD22	2:L:49:LEU:HA	1.69	0.40
1:M:274:PHE:CD2	1:M:275:LEU:CD1	3.03	0.40
1:M:371:ARG:C	1:M:373:SER:N	2.77	0.40
1:M:496:PHE:HB2	1:M:561:LEU:HD22	2.04	0.40
2:N:29:THR:HG22	2:N:99:CYS:SG	2.61	0.40
1:O:302:LEU:HD11	1:O:311:ASP:CB	2.51	0.40
1:O:372:LEU:O	1:O:373:SER:C	2.63	0.40
1:O:410:LEU:CD2	1:O:426:TYR:C	2.94	0.40
1:O:447:TYR:CE1	1:O:482:GLU:HG2	2.56	0.40
1:O:823:UNK:O	1:O:832:UNK:N	2.54	0.40
2:P:18:ILE:O	2:P:22:LEU:HG	2.20	0.40
2:R:29:THR:HG22	2:R:99:CYS:SG	2.61	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:S:153:LEU:CD2	1:S:267:ARG:HB2	2.48	0.40
1:S:192:VAL:HG12	1:S:255:ALA:HB1	2.03	0.40
1:S:267:ARG:HG3	1:S:268:PHE:HD1	1.86	0.40
1:S:368:MET:O	1:S:371:ARG:N	2.39	0.40
1:S:478:ILE:HG13	1:S:479:GLU:H	1.86	0.40
1:S:668:UNK:C	1:S:670:UNK:N	2.81	0.40
2:T:10:MET:HE3	2:T:14:HIS:HB3	2.03	0.40
1:U:221:ILE:O	1:U:224:ILE:HG22	2.21	0.40
1:U:277:ALA:O	1:U:278:ALA:CB	2.70	0.40
1:U:372:LEU:O	1:U:373:SER:C	2.63	0.40
1:U:771:UNK:O	1:U:775:UNK:N	2.55	0.40
1:W:210:ARG:HB2	1:W:210:ARG:NH1	2.25	0.40
1:W:267:ARG:HG3	1:W:268:PHE:HD1	1.86	0.40
1:W:424:SER:O	1:W:428:GLU:N	2.49	0.40
1:W:1188:UNK:C	1:W:1190:UNK:N	2.83	0.40
2:X:29:THR:HG22	2:X:99:CYS:SG	2.61	0.40
1:Y:1234:UNK:HA	1:Y:1243:UNK:O	2.21	0.40
2:Z:29:THR:HG22	2:Z:99:CYS:SG	2.61	0.40
1:a:302:LEU:HD11	1:a:311:ASP:CB	2.51	0.40
1:a:384:ILE:O	1:a:388:LEU:HD21	2.20	0.40
1:a:447:TYR:CE1	1:a:482:GLU:HG2	2.56	0.40
1:a:557:LYS:HE3	1:a:558:TYR:N	2.34	0.40
1:c:156:GLY:O	1:c:160:VAL:HG23	2.21	0.40
1:c:196:LEU:HD12	1:c:224:ILE:HG13	2.02	0.40
1:c:200:LEU:CD2	1:c:207:TRP:CD1	3.01	0.40
1:c:221:ILE:O	1:c:224:ILE:HG22	2.21	0.40
1:c:410:LEU:CG	1:c:426:TYR:CD1	3.04	0.40
1:c:559:THR:HA	1:c:562:LEU:CD2	2.49	0.40
1:e:133:LYS:C	1:e:283:ILE:CD1	2.93	0.40
1:e:447:TYR:CE1	1:e:482:GLU:HG2	2.56	0.40
1:A:19:PHE:CE1	1:A:92:ILE:HD11	2.56	0.40
1:A:252:ALA:O	1:A:255:ALA:N	2.54	0.40
1:A:386:LEU:HD21	1:A:402:VAL:CG1	2.52	0.40
1:A:657:UNK:C	1:A:658:UNK:H	2.09	0.40
1:A:823:UNK:O	1:A:832:UNK:N	2.54	0.40
1:C:232:LEU:HA	1:C:237:TYR:CD2	2.54	0.40
1:C:242:LEU:O	1:C:262:ILE:CB	2.67	0.40
1:C:424:SER:O	1:C:428:GLU:N	2.49	0.40
1:C:496:PHE:HB2	1:C:561:LEU:HD22	2.04	0.40
2:D:38:CYS:SG	2:D:39:VAL:N	2.94	0.40
1:E:243:VAL:C	1:E:244:LEU:O	2.55	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:372:LEU:O	1:E:373:SER:C	2.63	0.40
1:E:386:LEU:HD21	1:E:402:VAL:CG1	2.52	0.40
1:E:1188:UNK:C	1:E:1190:UNK:N	2.83	0.40
2:F:104:VAL:HG23	2:F:105:LEU:N	2.36	0.40
1:G:127:ARG:O	1:G:131:TYR:HB2	2.20	0.40
1:G:478:ILE:HG13	1:G:479:GLU:H	1.86	0.40
1:G:696:UNK:O	2:H:60:PHE:CZ	2.75	0.40
1:I:244:LEU:HB3	1:I:247:VAL:HG22	2.02	0.40
1:I:269:LYS:O	1:I:273:ASP:N	2.54	0.40
1:I:386:LEU:HD21	1:I:402:VAL:CG1	2.52	0.40
1:I:447:TYR:CE1	1:I:482:GLU:HG2	2.56	0.40
1:I:823:UNK:O	1:I:832:UNK:N	2.54	0.40
1:K:87:PHE:CD1	1:K:88:LEU:HD13	2.54	0.40
1:K:172:CYS:HA	1:K:176:PHE:CE1	2.56	0.40
1:K:740:UNK:C	1:K:775:UNK:CB	2.98	0.40
1:M:156:GLY:O	1:M:160:VAL:HG23	2.21	0.40
1:M:221:ILE:O	1:M:224:ILE:HG22	2.21	0.40
1:M:771:UNK:O	1:M:775:UNK:N	2.55	0.40
2:N:77:LEU:HA	2:N:77:LEU:HD12	1.80	0.40
1:O:97:ARG:C	1:O:98:GLN:HG2	2.45	0.40
1:O:277:ALA:O	1:O:278:ALA:CB	2.70	0.40
1:O:384:ILE:O	1:O:388:LEU:HD21	2.20	0.40
1:O:410:LEU:HA	1:O:426:TYR:CE1	2.47	0.40
1:O:1131:UNK:N	1:O:1145:UNK:O	2.54	0.40
2:P:24:ILE:HD11	2:V:101:ASP:O	2.21	0.40
2:P:77:LEU:HA	2:P:77:LEU:HD12	1.80	0.40
1:Q:184:LYS:CG	1:Q:185:ASN:N	2.84	0.40
1:Q:269:LYS:O	1:Q:273:ASP:N	2.54	0.40
1:Q:300:LEU:O	1:Q:304:TYR:HE1	2.02	0.40
1:Q:369:PHE:HE1	1:Q:411:VAL:CG2	2.29	0.40
1:Q:429:LEU:O	1:Q:430:LYS:C	2.62	0.40
1:Q:447:TYR:CE1	1:Q:482:GLU:HG2	2.56	0.40
1:Q:496:PHE:HB2	1:Q:561:LEU:HD22	2.04	0.40
1:Q:740:UNK:C	1:Q:775:UNK:CB	2.99	0.40
1:Q:1234:UNK:HA	1:Q:1243:UNK:O	2.21	0.40
1:S:41:SER:CB	1:S:44:GLU:H	2.34	0.40
1:S:172:CYS:HA	1:S:176:PHE:CE1	2.56	0.40
1:S:285:LEU:O	1:S:290:MET:HB2	2.21	0.40
1:S:302:LEU:HD11	1:S:311:ASP:CB	2.51	0.40
1:S:696:UNK:O	2:T:60:PHE:CZ	2.75	0.40
2:T:29:THR:HG22	2:T:99:CYS:SG	2.61	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:T:38:CYS:SG	2:T:39:VAL:N	2.94	0.40
1:U:40:LEU:HD11	1:U:61:LEU:HD11	2.03	0.40
1:U:321:PRO:O	1:U:325:SER:OG	2.35	0.40
1:U:386:LEU:HD21	1:U:402:VAL:CG1	2.52	0.40
2:V:29:THR:HG22	2:V:99:CYS:SG	2.61	0.40
2:V:104:VAL:HG23	2:V:105:LEU:N	2.36	0.40
1:W:88:LEU:CA	1:W:91:PRO:CD	2.97	0.40
1:W:232:LEU:HA	1:W:237:TYR:CD2	2.54	0.40
1:W:242:LEU:O	1:W:262:ILE:CB	2.67	0.40
1:W:269:LYS:O	1:W:273:ASP:N	2.54	0.40
1:W:405:LEU:HD22	1:W:405:LEU:HA	1.90	0.40
1:W:410:LEU:CD2	1:W:426:TYR:C	2.94	0.40
1:W:491:PHE:HA	1:W:576:GLU:CG	2.47	0.40
1:W:495:ARG:NH1	1:W:546:LEU:HA	2.36	0.40
1:W:496:PHE:HB2	1:W:561:LEU:HD22	2.04	0.40
1:W:696:UNK:O	2:X:60:PHE:CZ	2.75	0.40
2:X:38:CYS:SG	2:X:39:VAL:N	2.94	0.40
1:Y:184:LYS:CG	1:Y:185:ASN:N	2.84	0.40
1:Y:269:LYS:O	1:Y:273:ASP:N	2.54	0.40
1:Y:447:TYR:CE1	1:Y:482:GLU:HG2	2.56	0.40
1:Y:771:UNK:O	1:Y:775:UNK:N	2.55	0.40
1:a:277:ALA:O	1:a:278:ALA:CB	2.70	0.40
1:a:410:LEU:CD2	1:a:426:TYR:C	2.94	0.40
1:a:410:LEU:HA	1:a:426:TYR:CE1	2.47	0.40
1:a:496:PHE:HB2	1:a:561:LEU:HD22	2.04	0.40
1:c:371:ARG:C	1:c:373:SER:N	2.77	0.40
1:c:771:UNK:O	1:c:775:UNK:N	2.55	0.40
2:d:20:LYS:H	2:d:20:LYS:HG3	1.62	0.40
2:d:43:ILE:HG13	2:d:89:LEU:HD21	2.02	0.40
1:e:18:VAL:HG21	1:e:103:THR:CG2	2.51	0.40
1:e:364:GLU:HG2	1:e:401:VAL:HG11	2.03	0.40
1:e:410:LEU:CG	1:e:426:TYR:CD1	3.04	0.40
1:e:740:UNK:C	1:e:775:UNK:CB	2.98	0.40
1:A:82:ARG:HG2	1:A:82:ARG:NH1	2.28	0.40
1:A:269:LYS:O	1:A:273:ASP:N	2.54	0.40
1:A:359:VAL:CG1	1:A:360:LEU:N	2.85	0.40
1:A:557:LYS:HE2	1:A:558:TYR:N	2.37	0.40
1:C:102:MET:CA	1:C:105:MET:HB3	2.50	0.40
1:C:357:LEU:HD23	1:C:357:LEU:HA	1.88	0.40
1:C:1188:UNK:C	1:C:1190:UNK:N	2.83	0.40
1:E:40:LEU:HD11	1:E:61:LEU:HD11	2.03	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:202:GLN:O	1:E:203:ILE:C	2.64	0.40
1:E:229:ARG:NH2	1:E:229:ARG:CG	2.81	0.40
1:G:86:LYS:HD2	1:G:86:LYS:HA	1.53	0.40
1:G:285:LEU:O	1:G:290:MET:HB2	2.21	0.40
1:G:491:PHE:HA	1:G:576:GLU:CG	2.47	0.40
1:G:557:LYS:HE2	1:G:558:TYR:N	2.37	0.40
1:G:668:UNK:C	1:G:670:UNK:N	2.81	0.40
2:H:64:GLU:O	2:H:66:ASP:N	2.55	0.40
1:I:359:VAL:CG1	1:I:360:LEU:N	2.85	0.40
1:I:557:LYS:HE2	1:I:558:TYR:N	2.37	0.40
1:K:118:GLN:C	1:K:120:PHE:H	2.28	0.40
1:K:192:VAL:HG12	1:K:255:ALA:HB1	2.03	0.40
1:K:285:LEU:O	1:K:290:MET:HB2	2.21	0.40
1:K:301:LEU:C	1:K:301:LEU:CD1	2.86	0.40
1:K:364:GLU:HG2	1:K:401:VAL:HG11	2.03	0.40
1:K:368:MET:O	1:K:371:ARG:N	2.39	0.40
1:K:823:UNK:O	1:K:832:UNK:N	2.54	0.40
2:L:78:LYS:HD3	2:L:78:LYS:HA	1.94	0.40
2:L:104:VAL:HG23	2:L:105:LEU:N	2.36	0.40
1:M:405:LEU:O	1:M:406:HIS:C	2.61	0.40
1:M:566:LEU:HA	1:M:574:PHE:CD1	2.57	0.40
2:N:43:ILE:HG13	2:N:89:LEU:HD21	2.02	0.40
1:O:128:LEU:HD23	1:O:128:LEU:HA	1.86	0.40
1:O:203:ILE:HG21	1:O:231:LEU:CD2	2.46	0.40
1:O:274:PHE:HB3	1:O:275:LEU:CD1	2.37	0.40
1:O:301:LEU:C	1:O:301:LEU:CD1	2.86	0.40
1:O:496:PHE:HB2	1:O:561:LEU:HD22	2.04	0.40
1:O:566:LEU:HA	1:O:574:PHE:CD1	2.57	0.40
2:P:43:ILE:HG13	2:P:89:LEU:HD21	2.02	0.40
2:P:104:VAL:HG23	2:P:105:LEU:N	2.36	0.40
1:Q:97:ARG:C	1:Q:98:GLN:HG2	2.45	0.40
1:Q:202:GLN:O	1:Q:203:ILE:C	2.64	0.40
1:Q:260:CYS:HB3	1:Q:262:ILE:CG2	2.51	0.40
1:Q:364:GLU:HG2	1:Q:401:VAL:HG11	2.03	0.40
1:Q:771:UNK:O	1:Q:775:UNK:N	2.55	0.40
1:S:557:LYS:HE2	1:S:558:TYR:N	2.37	0.40
2:T:64:GLU:O	2:T:66:ASP:N	2.55	0.40
1:U:202:GLN:O	1:U:203:ILE:C	2.64	0.40
1:U:367:LYS:O	1:U:368:MET:C	2.63	0.40
1:U:1188:UNK:C	1:U:1190:UNK:N	2.83	0.40
1:W:102:MET:CA	1:W:105:MET:HB3	2.50	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Y:202:GLN:O	1:Y:203:ILE:C	2.64	0.40
1:Y:260:CYS:HB3	1:Y:262:ILE:CG2	2.51	0.40
1:Y:369:PHE:HE1	1:Y:411:VAL:CG2	2.29	0.40
1:Y:410:LEU:CD2	1:Y:426:TYR:C	2.94	0.40
1:Y:429:LEU:O	1:Y:430:LYS:C	2.62	0.40
1:Y:496:PHE:HB2	1:Y:561:LEU:HD22	2.04	0.40
1:Y:740:UNK:C	1:Y:775:UNK:CB	2.99	0.40
1:a:212:ASP:CB	1:a:220:ARG:HH11	2.18	0.40
1:a:274:PHE:HB3	1:a:275:LEU:CD1	2.37	0.40
1:a:285:LEU:O	1:a:290:MET:HB2	2.21	0.40
1:a:301:LEU:C	1:a:301:LEU:CD1	2.86	0.40
1:a:566:LEU:HA	1:a:574:PHE:CD1	2.57	0.40
2:b:104:VAL:HG23	2:b:105:LEU:N	2.36	0.40
1:c:227:GLU:OE2	1:c:230:ARG:NH1	2.53	0.40
1:c:235:LYS:HZ1	1:c:238:GLU:HG2	1.83	0.40
1:c:372:LEU:O	1:c:373:SER:C	2.63	0.40
1:c:405:LEU:O	1:c:406:HIS:C	2.61	0.40
2:d:64:GLU:O	2:d:66:ASP:N	2.55	0.40
1:e:82:ARG:CZ	1:e:82:ARG:CB	2.99	0.40
1:e:87:PHE:CD1	1:e:88:LEU:HD13	2.54	0.40
1:e:118:GLN:C	1:e:120:PHE:H	2.28	0.40
1:e:192:VAL:HG12	1:e:255:ALA:HB1	2.03	0.40
1:e:301:LEU:C	1:e:301:LEU:CD1	2.86	0.40
1:e:494:PHE:O	1:e:498:GLU:HB3	2.22	0.40
1:e:823:UNK:O	1:e:832:UNK:N	2.54	0.40
1:e:1131:UNK:N	1:e:1145:UNK:O	2.54	0.40
1:e:1234:UNK:HA	1:e:1243:UNK:O	2.21	0.40
1:A:496:PHE:HB2	1:A:561:LEU:HD22	2.04	0.40
2:B:38:CYS:SG	2:B:75:LEU:HD11	2.62	0.40
1:C:88:LEU:CA	1:C:91:PRO:CD	2.97	0.40
1:C:156:GLY:O	1:C:160:VAL:HG23	2.21	0.40
1:C:495:ARG:NH1	1:C:546:LEU:HA	2.36	0.40
1:C:566:LEU:HA	1:C:574:PHE:CD1	2.57	0.40
1:E:41:SER:CB	1:E:44:GLU:H	2.34	0.40
1:E:101:MET:O	1:E:105:MET:N	2.54	0.40
1:E:367:LYS:O	1:E:368:MET:C	2.63	0.40
1:E:447:TYR:CE1	1:E:482:GLU:HG2	2.56	0.40
1:G:269:LYS:O	1:G:273:ASP:N	2.54	0.40
1:I:242:LEU:HD22	1:I:262:ILE:HG22	2.01	0.40
1:I:302:LEU:HD11	1:I:311:ASP:CB	2.51	0.40
1:I:496:PHE:HB2	1:I:561:LEU:HD22	2.04	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:559:THR:HA	1:I:562:LEU:CD2	2.49	0.40
2:J:38:CYS:SG	2:J:75:LEU:HD11	2.62	0.40
1:K:82:ARG:CZ	1:K:82:ARG:CB	2.99	0.40
1:K:183:LEU:HD23	1:K:183:LEU:HA	1.72	0.40
1:K:494:PHE:O	1:K:498:GLU:HB3	2.22	0.40
1:K:771:UNK:O	1:K:775:UNK:N	2.55	0.40
1:K:1131:UNK:N	1:K:1145:UNK:O	2.54	0.40
1:K:1234:UNK:HA	1:K:1243:UNK:O	2.21	0.40
2:L:64:GLU:O	2:L:66:ASP:N	2.55	0.40
1:M:200:LEU:CD2	1:M:207:TRP:CD1	3.01	0.40
1:M:227:GLU:OE2	1:M:230:ARG:NH1	2.53	0.40
1:M:364:GLU:HG2	1:M:401:VAL:HG11	2.03	0.40
2:N:64:GLU:O	2:N:66:ASP:N	2.55	0.40
1:O:285:LEU:O	1:O:290:MET:HB2	2.21	0.40
1:O:399:MET:HE2	1:O:399:MET:HB2	1.66	0.40
1:O:410:LEU:CG	1:O:426:TYR:CD1	3.04	0.40
1:O:557:LYS:HE3	1:O:558:TYR:N	2.34	0.40
1:Q:156:GLY:O	1:Q:160:VAL:HG23	2.21	0.40
1:Q:371:ARG:CD	1:Q:389:ILE:HD13	2.18	0.40
1:Q:410:LEU:CD2	1:Q:426:TYR:C	2.94	0.40
1:Q:495:ARG:NH1	1:Q:546:LEU:HA	2.36	0.40
1:Q:657:UNK:C	1:Q:658:UNK:H	2.09	0.40
1:S:127:ARG:O	1:S:131:TYR:HB2	2.20	0.40
1:S:166:LEU:CD2	1:S:167:SER:HA	2.42	0.40
1:S:269:LYS:O	1:S:273:ASP:N	2.54	0.40
1:U:101:MET:O	1:U:105:MET:N	2.54	0.40
1:U:287:HIS:CB	1:U:288:HIS:HD2	2.25	0.40
1:W:566:LEU:HA	1:W:574:PHE:CD1	2.57	0.40
1:Y:88:LEU:CA	1:Y:91:PRO:CD	2.97	0.40
1:Y:97:ARG:C	1:Y:98:GLN:HG2	2.45	0.40
1:Y:245:LEU:HD23	1:Y:245:LEU:HA	1.79	0.40
1:Y:300:LEU:O	1:Y:304:TYR:HE1	2.02	0.40
1:Y:364:GLU:HG2	1:Y:401:VAL:HG11	2.03	0.40
1:a:97:ARG:C	1:a:98:GLN:HG2	2.45	0.40
1:a:174:MET:HB2	1:a:174:MET:HE3	1.76	0.40
1:a:729:UNK:C	1:a:731:UNK:N	2.84	0.40
2:b:43:ILE:HG13	2:b:89:LEU:HD21	2.02	0.40
1:c:269:LYS:O	1:c:273:ASP:N	2.54	0.40
1:c:566:LEU:HA	1:c:574:PHE:CD1	2.57	0.40
1:c:729:UNK:C	1:c:731:UNK:N	2.84	0.40
1:c:823:UNK:O	1:c:832:UNK:N	2.54	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:e:285:LEU:O	1:e:290:MET:HB2	2.21	0.40
2:f:104:VAL:HG23	2:f:105:LEU:N	2.36	0.40

There are no symmetry-related clashes.

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 PDB entries followed by that with respect to all EM entries.

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	A	531/1102 (48%)	466 (88%)	60 (11%)	5 (1%)	14	49
1	C	531/1102 (48%)	466 (88%)	60 (11%)	5 (1%)	14	49
1	E	531/1102 (48%)	466 (88%)	60 (11%)	5 (1%)	14	49
1	G	531/1102 (48%)	466 (88%)	60 (11%)	5 (1%)	14	49
1	I	531/1102 (48%)	466 (88%)	60 (11%)	5 (1%)	14	49
1	K	531/1102 (48%)	466 (88%)	60 (11%)	5 (1%)	14	49
1	M	531/1102 (48%)	466 (88%)	60 (11%)	5 (1%)	14	49
1	O	531/1102 (48%)	466 (88%)	60 (11%)	5 (1%)	14	49
1	Q	531/1102 (48%)	466 (88%)	60 (11%)	5 (1%)	14	49
1	S	531/1102 (48%)	466 (88%)	60 (11%)	5 (1%)	14	49
1	U	531/1102 (48%)	466 (88%)	60 (11%)	5 (1%)	14	49
1	W	531/1102 (48%)	466 (88%)	60 (11%)	5 (1%)	14	49
1	Y	531/1102 (48%)	466 (88%)	60 (11%)	5 (1%)	14	49
1	a	531/1102 (48%)	466 (88%)	60 (11%)	5 (1%)	14	49
1	c	531/1102 (48%)	466 (88%)	60 (11%)	5 (1%)	14	49
1	e	531/1102 (48%)	466 (88%)	60 (11%)	5 (1%)	14	49
2	B	100/450 (22%)	78 (78%)	21 (21%)	1 (1%)	12	46
2	D	100/450 (22%)	78 (78%)	21 (21%)	1 (1%)	12	46

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
2	F	100/450 (22%)	78 (78%)	21 (21%)	1 (1%)	12	46
2	H	100/450 (22%)	78 (78%)	21 (21%)	1 (1%)	12	46
2	J	100/450 (22%)	78 (78%)	21 (21%)	1 (1%)	12	46
2	L	100/450 (22%)	78 (78%)	21 (21%)	1 (1%)	12	46
2	N	100/450 (22%)	78 (78%)	21 (21%)	1 (1%)	12	46
2	P	100/450 (22%)	78 (78%)	21 (21%)	1 (1%)	12	46
2	R	100/450 (22%)	78 (78%)	21 (21%)	1 (1%)	12	46
2	T	100/450 (22%)	78 (78%)	21 (21%)	1 (1%)	12	46
2	V	100/450 (22%)	78 (78%)	21 (21%)	1 (1%)	12	46
2	X	100/450 (22%)	78 (78%)	21 (21%)	1 (1%)	12	46
2	Z	100/450 (22%)	78 (78%)	21 (21%)	1 (1%)	12	46
2	b	100/450 (22%)	78 (78%)	21 (21%)	1 (1%)	12	46
2	d	100/450 (22%)	78 (78%)	21 (21%)	1 (1%)	12	46
2	f	100/450 (22%)	78 (78%)	21 (21%)	1 (1%)	12	46
All	All	10096/24832 (41%)	8704 (86%)	1296 (13%)	96 (1%)	15	46

All (96) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	A	316	VAL
1	A	346	CYS
1	C	316	VAL
1	C	346	CYS
1	E	316	VAL
1	E	346	CYS
1	G	316	VAL
1	G	346	CYS
1	I	316	VAL
1	I	346	CYS
1	K	316	VAL
1	K	346	CYS
1	M	316	VAL
1	M	346	CYS
1	O	316	VAL
1	O	346	CYS
1	Q	316	VAL
1	Q	346	CYS

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Mol	Chain	Res	Type
1	S	316	VAL
1	S	346	CYS
1	U	316	VAL
1	U	346	CYS
1	W	316	VAL
1	W	346	CYS
1	Y	316	VAL
1	Y	346	CYS
1	a	316	VAL
1	a	346	CYS
1	c	316	VAL
1	c	346	CYS
1	e	316	VAL
1	e	346	CYS
1	A	99	PRO
1	C	99	PRO
1	E	99	PRO
1	G	99	PRO
1	I	99	PRO
1	K	99	PRO
1	M	99	PRO
1	O	99	PRO
1	Q	99	PRO
1	S	99	PRO
1	U	99	PRO
1	W	99	PRO
1	Y	99	PRO
1	a	99	PRO
1	c	99	PRO
1	e	99	PRO
2	B	59	PRO
2	D	59	PRO
2	F	59	PRO
2	H	59	PRO
2	J	59	PRO
2	L	59	PRO
2	N	59	PRO
2	P	59	PRO
2	R	59	PRO
2	T	59	PRO
2	V	59	PRO
2	X	59	PRO

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Mol	Chain	Res	Type
2	Z	59	PRO
2	b	59	PRO
2	d	59	PRO
2	f	59	PRO
1	A	203	ILE
1	C	203	ILE
1	E	203	ILE
1	G	203	ILE
1	I	203	ILE
1	K	203	ILE
1	M	203	ILE
1	O	203	ILE
1	Q	203	ILE
1	S	203	ILE
1	U	203	ILE
1	W	203	ILE
1	Y	203	ILE
1	a	203	ILE
1	c	203	ILE
1	e	203	ILE
1	C	309	PRO
1	G	309	PRO
1	K	309	PRO
1	O	309	PRO
1	S	309	PRO
1	W	309	PRO
1	a	309	PRO
1	e	309	PRO
1	A	309	PRO
1	E	309	PRO
1	I	309	PRO
1	M	309	PRO
1	Q	309	PRO
1	U	309	PRO
1	Y	309	PRO
1	c	309	PRO

5.3.2 Protein sidechains [i](#)

In the following table, the Percentiles column shows the percent sidechain outliers of the chain as a percentile score with respect to all PDB entries followed by that with respect to all EM entries.

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	A	501/551 (91%)	353 (70%)	148 (30%)	0	3
1	C	501/551 (91%)	353 (70%)	148 (30%)	0	3
1	E	501/551 (91%)	353 (70%)	148 (30%)	0	3
1	G	501/551 (91%)	353 (70%)	148 (30%)	0	3
1	I	501/551 (91%)	353 (70%)	148 (30%)	0	3
1	K	501/551 (91%)	353 (70%)	148 (30%)	0	3
1	M	501/551 (91%)	353 (70%)	148 (30%)	0	3
1	O	501/551 (91%)	353 (70%)	148 (30%)	0	3
1	Q	501/551 (91%)	353 (70%)	148 (30%)	0	3
1	S	501/551 (91%)	353 (70%)	148 (30%)	0	3
1	U	501/551 (91%)	353 (70%)	148 (30%)	0	3
1	W	501/551 (91%)	353 (70%)	148 (30%)	0	3
1	Y	501/551 (91%)	353 (70%)	148 (30%)	0	3
1	a	501/551 (91%)	353 (70%)	148 (30%)	0	3
1	c	501/551 (91%)	353 (70%)	148 (30%)	0	3
1	e	501/551 (91%)	353 (70%)	148 (30%)	0	3
2	B	94/404 (23%)	65 (69%)	29 (31%)	0	2
2	D	94/404 (23%)	65 (69%)	29 (31%)	0	2
2	F	94/404 (23%)	65 (69%)	29 (31%)	0	2
2	H	94/404 (23%)	65 (69%)	29 (31%)	0	2
2	J	94/404 (23%)	65 (69%)	29 (31%)	0	2
2	L	94/404 (23%)	65 (69%)	29 (31%)	0	2
2	N	94/404 (23%)	65 (69%)	29 (31%)	0	2
2	P	94/404 (23%)	65 (69%)	29 (31%)	0	2
2	R	94/404 (23%)	65 (69%)	29 (31%)	0	2
2	T	94/404 (23%)	65 (69%)	29 (31%)	0	2
2	V	94/404 (23%)	65 (69%)	29 (31%)	0	2
2	X	94/404 (23%)	65 (69%)	29 (31%)	0	2
2	Z	94/404 (23%)	65 (69%)	29 (31%)	0	2
2	b	94/404 (23%)	65 (69%)	29 (31%)	0	2

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
2	d	94/404 (23%)	65 (69%)	29 (31%)	0	2
2	f	94/404 (23%)	65 (69%)	29 (31%)	0	2
All	All	9520/15280 (62%)	6688 (70%)	2832 (30%)	1	3

All (2832) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	15	ILE
1	A	17	SER
1	A	19	PHE
1	A	20	GLU
1	A	23	PHE
1	A	26	ASN
1	A	34	ASP
1	A	37	LYS
1	A	39	ILE
1	A	40	LEU
1	A	41	SER
1	A	42	LYS
1	A	44	GLU
1	A	49	ILE
1	A	50	MET
1	A	52	LYS
1	A	59	LEU
1	A	60	ARG
1	A	70	GLU
1	A	74	GLN
1	A	75	LYS
1	A	78	GLU
1	A	81	LEU
1	A	82	ARG
1	A	86	LYS
1	A	87	PHE
1	A	90	SER
1	A	93	LYS
1	A	96	GLN
1	A	104	ARG
1	A	105	MET
1	A	106	TYR
1	A	109	GLN
1	A	110	ARG

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Mol	Chain	Res	Type
1	A	122	LYS
1	A	129	GLN
1	A	132	LEU
1	A	135	ARG
1	A	141	LEU
1	A	142	ARG
1	A	148	LEU
1	A	149	ILE
1	A	157	LYS
1	A	162	LEU
1	A	163	ASP
1	A	165	CYS
1	A	166	LEU
1	A	167	SER
1	A	171	GLN
1	A	172	CYS
1	A	173	LYS
1	A	175	ASP
1	A	177	LYS
1	A	178	ILE
1	A	179	PHE
1	A	186	CYS
1	A	190	GLU
1	A	191	THR
1	A	192	VAL
1	A	195	MET
1	A	196	LEU
1	A	199	LEU
1	A	200	LEU
1	A	202	GLN
1	A	207	TRP
1	A	210	ARG
1	A	212	ASP
1	A	217	ILE
1	A	218	LYS
1	A	219	LEU
1	A	221	ILE
1	A	224	ILE
1	A	228	LEU
1	A	229	ARG
1	A	233	LYS
1	A	235	LYS

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Mol	Chain	Res	Type
1	A	238	GLU
1	A	240	CYS
1	A	241	LEU
1	A	242	LEU
1	A	246	ASN
1	A	251	LYS
1	A	256	PHE
1	A	258	LEU
1	A	260	CYS
1	A	263	LEU
1	A	264	LEU
1	A	265	THR
1	A	268	PHE
1	A	275	LEU
1	A	280	THR
1	A	283	ILE
1	A	285	LEU
1	A	290	MET
1	A	293	THR
1	A	301	LEU
1	A	302	LEU
1	A	303	LYS
1	A	304	TYR
1	A	305	LEU
1	A	307	CYS
1	A	317	LEU
1	A	320	ASN
1	A	322	ARG
1	A	349	LEU
1	A	352	ILE
1	A	358	ASN
1	A	360	LEU
1	A	361	GLU
1	A	368	MET
1	A	375	PHE
1	A	378	SER
1	A	388	LEU
1	A	389	ILE
1	A	399	MET
1	A	404	LYS
1	A	405	LEU
1	A	406	HIS

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Mol	Chain	Res	Type
1	A	413	LYS
1	A	414	GLN
1	A	418	SER
1	A	422	ILE
1	A	425	ILE
1	A	426	TYR
1	A	429	LEU
1	A	435	ASN
1	A	439	LEU
1	A	449	ILE
1	A	463	LEU
1	A	470	HIS
1	A	488	ARG
1	A	492	LEU
1	A	493	ASP
1	A	494	PHE
1	A	495	ARG
1	A	500	LYS
1	A	501	ILE
1	A	522	LYS
1	A	528	ILE
1	A	536	GLU
1	A	538	LEU
1	A	539	VAL
1	A	542	ILE
1	A	557	LYS
1	A	562	LEU
1	A	564	ILE
1	A	573	ILE
1	A	581	VAL
2	B	12	LYS
2	B	13	ARG
2	B	19	ARG
2	B	20	LYS
2	B	21	ASN
2	B	22	LEU
2	B	23	ASN
2	B	27	GLU
2	B	40	GLN
2	B	44	LEU
2	B	49	LEU
2	B	50	ARG

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Mol	Chain	Res	Type
2	B	54	ASP
2	B	61	ASN
2	B	62	MET
2	B	64	GLU
2	B	70	GLU
2	B	71	GLN
2	B	73	ARG
2	B	77	LEU
2	B	80	THR
2	B	81	GLN
2	B	82	ARG
2	B	85	THR
2	B	87	TYR
2	B	100	LEU
2	B	105	LEU
2	B	109	VAL
2	B	111	GLU
1	C	15	ILE
1	C	17	SER
1	C	19	PHE
1	C	20	GLU
1	C	23	PHE
1	C	26	ASN
1	C	34	ASP
1	C	37	LYS
1	C	39	ILE
1	C	40	LEU
1	C	41	SER
1	C	42	LYS
1	C	44	GLU
1	C	49	ILE
1	C	50	MET
1	C	52	LYS
1	C	59	LEU
1	C	60	ARG
1	C	70	GLU
1	C	74	GLN
1	C	75	LYS
1	C	78	GLU
1	C	81	LEU
1	C	82	ARG
1	C	86	LYS

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Mol	Chain	Res	Type
1	C	87	PHE
1	C	90	SER
1	C	93	LYS
1	C	96	GLN
1	C	104	ARG
1	C	105	MET
1	C	106	TYR
1	C	109	GLN
1	C	110	ARG
1	C	122	LYS
1	C	129	GLN
1	C	132	LEU
1	C	135	ARG
1	C	141	LEU
1	C	142	ARG
1	C	148	LEU
1	C	149	ILE
1	C	157	LYS
1	C	162	LEU
1	C	163	ASP
1	C	165	CYS
1	C	166	LEU
1	C	167	SER
1	C	171	GLN
1	C	172	CYS
1	C	173	LYS
1	C	175	ASP
1	C	177	LYS
1	C	178	ILE
1	C	179	PHE
1	C	186	CYS
1	C	190	GLU
1	C	191	THR
1	C	192	VAL
1	C	195	MET
1	C	196	LEU
1	C	199	LEU
1	C	200	LEU
1	C	202	GLN
1	C	207	TRP
1	C	210	ARG
1	C	212	ASP

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Mol	Chain	Res	Type
1	C	217	ILE
1	C	218	LYS
1	C	219	LEU
1	C	221	ILE
1	C	224	ILE
1	C	228	LEU
1	C	229	ARG
1	C	233	LYS
1	C	235	LYS
1	C	238	GLU
1	C	240	CYS
1	C	241	LEU
1	C	242	LEU
1	C	246	ASN
1	C	251	LYS
1	C	256	PHE
1	C	258	LEU
1	C	260	CYS
1	C	263	LEU
1	C	264	LEU
1	C	265	THR
1	C	268	PHE
1	C	275	LEU
1	C	280	THR
1	C	283	ILE
1	C	285	LEU
1	C	290	MET
1	C	293	THR
1	C	301	LEU
1	C	302	LEU
1	C	303	LYS
1	C	304	TYR
1	C	305	LEU
1	C	307	CYS
1	C	317	LEU
1	C	320	ASN
1	C	322	ARG
1	C	349	LEU
1	C	352	ILE
1	C	358	ASN
1	C	360	LEU
1	C	361	GLU

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Mol	Chain	Res	Type
1	C	368	MET
1	C	375	PHE
1	C	378	SER
1	C	388	LEU
1	C	389	ILE
1	C	399	MET
1	C	404	LYS
1	C	405	LEU
1	C	406	HIS
1	C	413	LYS
1	C	414	GLN
1	C	418	SER
1	C	422	ILE
1	C	425	ILE
1	C	426	TYR
1	C	429	LEU
1	C	435	ASN
1	C	439	LEU
1	C	449	ILE
1	C	463	LEU
1	C	470	HIS
1	C	488	ARG
1	C	492	LEU
1	C	493	ASP
1	C	494	PHE
1	C	495	ARG
1	C	500	LYS
1	C	501	ILE
1	C	522	LYS
1	C	528	ILE
1	C	536	GLU
1	C	538	LEU
1	C	539	VAL
1	C	542	ILE
1	C	557	LYS
1	C	562	LEU
1	C	564	ILE
1	C	573	ILE
1	C	581	VAL
2	D	12	LYS
2	D	13	ARG
2	D	19	ARG

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Mol	Chain	Res	Type
2	D	20	LYS
2	D	21	ASN
2	D	22	LEU
2	D	23	ASN
2	D	27	GLU
2	D	40	GLN
2	D	44	LEU
2	D	49	LEU
2	D	50	ARG
2	D	54	ASP
2	D	61	ASN
2	D	62	MET
2	D	64	GLU
2	D	70	GLU
2	D	71	GLN
2	D	73	ARG
2	D	77	LEU
2	D	80	THR
2	D	81	GLN
2	D	82	ARG
2	D	85	THR
2	D	87	TYR
2	D	100	LEU
2	D	105	LEU
2	D	109	VAL
2	D	111	GLU
1	E	15	ILE
1	E	17	SER
1	E	19	PHE
1	E	20	GLU
1	E	23	PHE
1	E	26	ASN
1	E	34	ASP
1	E	37	LYS
1	E	39	ILE
1	E	40	LEU
1	E	41	SER
1	E	42	LYS
1	E	44	GLU
1	E	49	ILE
1	E	50	MET
1	E	52	LYS

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Mol	Chain	Res	Type
1	E	59	LEU
1	E	60	ARG
1	E	70	GLU
1	E	74	GLN
1	E	75	LYS
1	E	78	GLU
1	E	81	LEU
1	E	82	ARG
1	E	86	LYS
1	E	87	PHE
1	E	90	SER
1	E	93	LYS
1	E	96	GLN
1	E	104	ARG
1	E	105	MET
1	E	106	TYR
1	E	109	GLN
1	E	110	ARG
1	E	122	LYS
1	E	129	GLN
1	E	132	LEU
1	E	135	ARG
1	E	141	LEU
1	E	142	ARG
1	E	148	LEU
1	E	149	ILE
1	E	157	LYS
1	E	162	LEU
1	E	163	ASP
1	E	165	CYS
1	E	166	LEU
1	E	167	SER
1	E	171	GLN
1	E	172	CYS
1	E	173	LYS
1	E	175	ASP
1	E	177	LYS
1	E	178	ILE
1	E	179	PHE
1	E	186	CYS
1	E	190	GLU
1	E	191	THR

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Mol	Chain	Res	Type
1	E	192	VAL
1	E	195	MET
1	E	196	LEU
1	E	199	LEU
1	E	200	LEU
1	E	202	GLN
1	E	207	TRP
1	E	210	ARG
1	E	212	ASP
1	E	217	ILE
1	E	218	LYS
1	E	219	LEU
1	E	221	ILE
1	E	224	ILE
1	E	228	LEU
1	E	229	ARG
1	E	233	LYS
1	E	235	LYS
1	E	238	GLU
1	E	240	CYS
1	E	241	LEU
1	E	242	LEU
1	E	246	ASN
1	E	251	LYS
1	E	256	PHE
1	E	258	LEU
1	E	260	CYS
1	E	263	LEU
1	E	264	LEU
1	E	265	THR
1	E	268	PHE
1	E	275	LEU
1	E	280	THR
1	E	283	ILE
1	E	285	LEU
1	E	290	MET
1	E	293	THR
1	E	301	LEU
1	E	302	LEU
1	E	303	LYS
1	E	304	TYR
1	E	305	LEU

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Mol	Chain	Res	Type
1	E	307	CYS
1	E	317	LEU
1	E	320	ASN
1	E	322	ARG
1	E	349	LEU
1	E	352	ILE
1	E	358	ASN
1	E	360	LEU
1	E	361	GLU
1	E	368	MET
1	E	375	PHE
1	E	378	SER
1	E	388	LEU
1	E	389	ILE
1	E	399	MET
1	E	404	LYS
1	E	405	LEU
1	E	406	HIS
1	E	413	LYS
1	E	414	GLN
1	E	418	SER
1	E	422	ILE
1	E	425	ILE
1	E	426	TYR
1	E	429	LEU
1	E	435	ASN
1	E	439	LEU
1	E	449	ILE
1	E	463	LEU
1	E	470	HIS
1	E	488	ARG
1	E	492	LEU
1	E	493	ASP
1	E	494	PHE
1	E	495	ARG
1	E	500	LYS
1	E	501	ILE
1	E	522	LYS
1	E	528	ILE
1	E	536	GLU
1	E	538	LEU
1	E	539	VAL

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Mol	Chain	Res	Type
1	E	542	ILE
1	E	557	LYS
1	E	562	LEU
1	E	564	ILE
1	E	573	ILE
1	E	581	VAL
2	F	12	LYS
2	F	13	ARG
2	F	19	ARG
2	F	20	LYS
2	F	21	ASN
2	F	22	LEU
2	F	23	ASN
2	F	27	GLU
2	F	40	GLN
2	F	44	LEU
2	F	49	LEU
2	F	50	ARG
2	F	54	ASP
2	F	61	ASN
2	F	62	MET
2	F	64	GLU
2	F	70	GLU
2	F	71	GLN
2	F	73	ARG
2	F	77	LEU
2	F	80	THR
2	F	81	GLN
2	F	82	ARG
2	F	85	THR
2	F	87	TYR
2	F	100	LEU
2	F	105	LEU
2	F	109	VAL
2	F	111	GLU
1	G	15	ILE
1	G	17	SER
1	G	19	PHE
1	G	20	GLU
1	G	23	PHE
1	G	26	ASN
1	G	34	ASP

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Mol	Chain	Res	Type
1	G	37	LYS
1	G	39	ILE
1	G	40	LEU
1	G	41	SER
1	G	42	LYS
1	G	44	GLU
1	G	49	ILE
1	G	50	MET
1	G	52	LYS
1	G	59	LEU
1	G	60	ARG
1	G	70	GLU
1	G	74	GLN
1	G	75	LYS
1	G	78	GLU
1	G	81	LEU
1	G	82	ARG
1	G	86	LYS
1	G	87	PHE
1	G	90	SER
1	G	93	LYS
1	G	96	GLN
1	G	104	ARG
1	G	105	MET
1	G	106	TYR
1	G	109	GLN
1	G	110	ARG
1	G	122	LYS
1	G	129	GLN
1	G	132	LEU
1	G	135	ARG
1	G	141	LEU
1	G	142	ARG
1	G	148	LEU
1	G	149	ILE
1	G	157	LYS
1	G	162	LEU
1	G	163	ASP
1	G	165	CYS
1	G	166	LEU
1	G	167	SER
1	G	171	GLN

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Mol	Chain	Res	Type
1	G	172	CYS
1	G	173	LYS
1	G	175	ASP
1	G	177	LYS
1	G	178	ILE
1	G	179	PHE
1	G	186	CYS
1	G	190	GLU
1	G	191	THR
1	G	192	VAL
1	G	195	MET
1	G	196	LEU
1	G	199	LEU
1	G	200	LEU
1	G	202	GLN
1	G	207	TRP
1	G	210	ARG
1	G	212	ASP
1	G	217	ILE
1	G	218	LYS
1	G	219	LEU
1	G	221	ILE
1	G	224	ILE
1	G	228	LEU
1	G	229	ARG
1	G	233	LYS
1	G	235	LYS
1	G	238	GLU
1	G	240	CYS
1	G	241	LEU
1	G	242	LEU
1	G	246	ASN
1	G	251	LYS
1	G	256	PHE
1	G	258	LEU
1	G	260	CYS
1	G	263	LEU
1	G	264	LEU
1	G	265	THR
1	G	268	PHE
1	G	275	LEU
1	G	280	THR

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Mol	Chain	Res	Type
1	G	283	ILE
1	G	285	LEU
1	G	290	MET
1	G	293	THR
1	G	301	LEU
1	G	302	LEU
1	G	303	LYS
1	G	304	TYR
1	G	305	LEU
1	G	307	CYS
1	G	317	LEU
1	G	320	ASN
1	G	322	ARG
1	G	349	LEU
1	G	352	ILE
1	G	358	ASN
1	G	360	LEU
1	G	361	GLU
1	G	368	MET
1	G	375	PHE
1	G	378	SER
1	G	388	LEU
1	G	389	ILE
1	G	399	MET
1	G	404	LYS
1	G	405	LEU
1	G	406	HIS
1	G	413	LYS
1	G	414	GLN
1	G	418	SER
1	G	422	ILE
1	G	425	ILE
1	G	426	TYR
1	G	429	LEU
1	G	435	ASN
1	G	439	LEU
1	G	449	ILE
1	G	463	LEU
1	G	470	HIS
1	G	488	ARG
1	G	492	LEU
1	G	493	ASP

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Mol	Chain	Res	Type
1	G	494	PHE
1	G	495	ARG
1	G	500	LYS
1	G	501	ILE
1	G	522	LYS
1	G	528	ILE
1	G	536	GLU
1	G	538	LEU
1	G	539	VAL
1	G	542	ILE
1	G	557	LYS
1	G	562	LEU
1	G	564	ILE
1	G	573	ILE
1	G	581	VAL
2	H	12	LYS
2	H	13	ARG
2	H	19	ARG
2	H	20	LYS
2	H	21	ASN
2	H	22	LEU
2	H	23	ASN
2	H	27	GLU
2	H	40	GLN
2	H	44	LEU
2	H	49	LEU
2	H	50	ARG
2	H	54	ASP
2	H	61	ASN
2	H	62	MET
2	H	64	GLU
2	H	70	GLU
2	H	71	GLN
2	H	73	ARG
2	H	77	LEU
2	H	80	THR
2	H	81	GLN
2	H	82	ARG
2	H	85	THR
2	H	87	TYR
2	H	100	LEU
2	H	105	LEU

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Mol	Chain	Res	Type
2	H	109	VAL
2	H	111	GLU
1	I	15	ILE
1	I	17	SER
1	I	19	PHE
1	I	20	GLU
1	I	23	PHE
1	I	26	ASN
1	I	34	ASP
1	I	37	LYS
1	I	39	ILE
1	I	40	LEU
1	I	41	SER
1	I	42	LYS
1	I	44	GLU
1	I	49	ILE
1	I	50	MET
1	I	52	LYS
1	I	59	LEU
1	I	60	ARG
1	I	70	GLU
1	I	74	GLN
1	I	75	LYS
1	I	78	GLU
1	I	81	LEU
1	I	82	ARG
1	I	86	LYS
1	I	87	PHE
1	I	90	SER
1	I	93	LYS
1	I	96	GLN
1	I	104	ARG
1	I	105	MET
1	I	106	TYR
1	I	109	GLN
1	I	110	ARG
1	I	122	LYS
1	I	129	GLN
1	I	132	LEU
1	I	135	ARG
1	I	141	LEU
1	I	142	ARG

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Mol	Chain	Res	Type
1	I	148	LEU
1	I	149	ILE
1	I	157	LYS
1	I	162	LEU
1	I	163	ASP
1	I	165	CYS
1	I	166	LEU
1	I	167	SER
1	I	171	GLN
1	I	172	CYS
1	I	173	LYS
1	I	175	ASP
1	I	177	LYS
1	I	178	ILE
1	I	179	PHE
1	I	186	CYS
1	I	190	GLU
1	I	191	THR
1	I	192	VAL
1	I	195	MET
1	I	196	LEU
1	I	199	LEU
1	I	200	LEU
1	I	202	GLN
1	I	207	TRP
1	I	210	ARG
1	I	212	ASP
1	I	217	ILE
1	I	218	LYS
1	I	219	LEU
1	I	221	ILE
1	I	224	ILE
1	I	228	LEU
1	I	229	ARG
1	I	233	LYS
1	I	235	LYS
1	I	238	GLU
1	I	240	CYS
1	I	241	LEU
1	I	242	LEU
1	I	246	ASN
1	I	251	LYS

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Mol	Chain	Res	Type
1	I	256	PHE
1	I	258	LEU
1	I	260	CYS
1	I	263	LEU
1	I	264	LEU
1	I	265	THR
1	I	268	PHE
1	I	275	LEU
1	I	280	THR
1	I	283	ILE
1	I	285	LEU
1	I	290	MET
1	I	293	THR
1	I	301	LEU
1	I	302	LEU
1	I	303	LYS
1	I	304	TYR
1	I	305	LEU
1	I	307	CYS
1	I	317	LEU
1	I	320	ASN
1	I	322	ARG
1	I	349	LEU
1	I	352	ILE
1	I	358	ASN
1	I	360	LEU
1	I	361	GLU
1	I	368	MET
1	I	375	PHE
1	I	378	SER
1	I	388	LEU
1	I	389	ILE
1	I	399	MET
1	I	404	LYS
1	I	405	LEU
1	I	406	HIS
1	I	413	LYS
1	I	414	GLN
1	I	418	SER
1	I	422	ILE
1	I	425	ILE
1	I	426	TYR

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Mol	Chain	Res	Type
1	I	429	LEU
1	I	435	ASN
1	I	439	LEU
1	I	449	ILE
1	I	463	LEU
1	I	470	HIS
1	I	488	ARG
1	I	492	LEU
1	I	493	ASP
1	I	494	PHE
1	I	495	ARG
1	I	500	LYS
1	I	501	ILE
1	I	522	LYS
1	I	528	ILE
1	I	536	GLU
1	I	538	LEU
1	I	539	VAL
1	I	542	ILE
1	I	557	LYS
1	I	562	LEU
1	I	564	ILE
1	I	573	ILE
1	I	581	VAL
2	J	12	LYS
2	J	13	ARG
2	J	19	ARG
2	J	20	LYS
2	J	21	ASN
2	J	22	LEU
2	J	23	ASN
2	J	27	GLU
2	J	40	GLN
2	J	44	LEU
2	J	49	LEU
2	J	50	ARG
2	J	54	ASP
2	J	61	ASN
2	J	62	MET
2	J	64	GLU
2	J	70	GLU
2	J	71	GLN

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Mol	Chain	Res	Type
2	J	73	ARG
2	J	77	LEU
2	J	80	THR
2	J	81	GLN
2	J	82	ARG
2	J	85	THR
2	J	87	TYR
2	J	100	LEU
2	J	105	LEU
2	J	109	VAL
2	J	111	GLU
1	K	15	ILE
1	K	17	SER
1	K	19	PHE
1	K	20	GLU
1	K	23	PHE
1	K	26	ASN
1	K	34	ASP
1	K	37	LYS
1	K	39	ILE
1	K	40	LEU
1	K	41	SER
1	K	42	LYS
1	K	44	GLU
1	K	49	ILE
1	K	50	MET
1	K	52	LYS
1	K	59	LEU
1	K	60	ARG
1	K	70	GLU
1	K	74	GLN
1	K	75	LYS
1	K	78	GLU
1	K	81	LEU
1	K	82	ARG
1	K	86	LYS
1	K	87	PHE
1	K	90	SER
1	K	93	LYS
1	K	96	GLN
1	K	104	ARG
1	K	105	MET

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Mol	Chain	Res	Type
1	K	106	TYR
1	K	109	GLN
1	K	110	ARG
1	K	122	LYS
1	K	129	GLN
1	K	132	LEU
1	K	135	ARG
1	K	141	LEU
1	K	142	ARG
1	K	148	LEU
1	K	149	ILE
1	K	157	LYS
1	K	162	LEU
1	K	163	ASP
1	K	165	CYS
1	K	166	LEU
1	K	167	SER
1	K	171	GLN
1	K	172	CYS
1	K	173	LYS
1	K	175	ASP
1	K	177	LYS
1	K	178	ILE
1	K	179	PHE
1	K	186	CYS
1	K	190	GLU
1	K	191	THR
1	K	192	VAL
1	K	195	MET
1	K	196	LEU
1	K	199	LEU
1	K	200	LEU
1	K	202	GLN
1	K	207	TRP
1	K	210	ARG
1	K	212	ASP
1	K	217	ILE
1	K	218	LYS
1	K	219	LEU
1	K	221	ILE
1	K	224	ILE
1	K	228	LEU

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Mol	Chain	Res	Type
1	K	229	ARG
1	K	233	LYS
1	K	235	LYS
1	K	238	GLU
1	K	240	CYS
1	K	241	LEU
1	K	242	LEU
1	K	246	ASN
1	K	251	LYS
1	K	256	PHE
1	K	258	LEU
1	K	260	CYS
1	K	263	LEU
1	K	264	LEU
1	K	265	THR
1	K	268	PHE
1	K	275	LEU
1	K	280	THR
1	K	283	ILE
1	K	285	LEU
1	K	290	MET
1	K	293	THR
1	K	301	LEU
1	K	302	LEU
1	K	303	LYS
1	K	304	TYR
1	K	305	LEU
1	K	307	CYS
1	K	317	LEU
1	K	320	ASN
1	K	322	ARG
1	K	349	LEU
1	K	352	ILE
1	K	358	ASN
1	K	360	LEU
1	K	361	GLU
1	K	368	MET
1	K	375	PHE
1	K	378	SER
1	K	388	LEU
1	K	389	ILE
1	K	399	MET

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Mol	Chain	Res	Type
1	K	404	LYS
1	K	405	LEU
1	K	406	HIS
1	K	413	LYS
1	K	414	GLN
1	K	418	SER
1	K	422	ILE
1	K	425	ILE
1	K	426	TYR
1	K	429	LEU
1	K	435	ASN
1	K	439	LEU
1	K	449	ILE
1	K	463	LEU
1	K	470	HIS
1	K	488	ARG
1	K	492	LEU
1	K	493	ASP
1	K	494	PHE
1	K	495	ARG
1	K	500	LYS
1	K	501	ILE
1	K	522	LYS
1	K	528	ILE
1	K	536	GLU
1	K	538	LEU
1	K	539	VAL
1	K	542	ILE
1	K	557	LYS
1	K	562	LEU
1	K	564	ILE
1	K	573	ILE
1	K	581	VAL
2	L	12	LYS
2	L	13	ARG
2	L	19	ARG
2	L	20	LYS
2	L	21	ASN
2	L	22	LEU
2	L	23	ASN
2	L	27	GLU
2	L	40	GLN

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Mol	Chain	Res	Type
2	L	44	LEU
2	L	49	LEU
2	L	50	ARG
2	L	54	ASP
2	L	61	ASN
2	L	62	MET
2	L	64	GLU
2	L	70	GLU
2	L	71	GLN
2	L	73	ARG
2	L	77	LEU
2	L	80	THR
2	L	81	GLN
2	L	82	ARG
2	L	85	THR
2	L	87	TYR
2	L	100	LEU
2	L	105	LEU
2	L	109	VAL
2	L	111	GLU
1	M	15	ILE
1	M	17	SER
1	M	19	PHE
1	M	20	GLU
1	M	23	PHE
1	M	26	ASN
1	M	34	ASP
1	M	37	LYS
1	M	39	ILE
1	M	40	LEU
1	M	41	SER
1	M	42	LYS
1	M	44	GLU
1	M	49	ILE
1	M	50	MET
1	M	52	LYS
1	M	59	LEU
1	M	60	ARG
1	M	70	GLU
1	M	74	GLN
1	M	75	LYS
1	M	78	GLU

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Mol	Chain	Res	Type
1	M	81	LEU
1	M	82	ARG
1	M	86	LYS
1	M	87	PHE
1	M	90	SER
1	M	93	LYS
1	M	96	GLN
1	M	104	ARG
1	M	105	MET
1	M	106	TYR
1	M	109	GLN
1	M	110	ARG
1	M	122	LYS
1	M	129	GLN
1	M	132	LEU
1	M	135	ARG
1	M	141	LEU
1	M	142	ARG
1	M	148	LEU
1	M	149	ILE
1	M	157	LYS
1	M	162	LEU
1	M	163	ASP
1	M	165	CYS
1	M	166	LEU
1	M	167	SER
1	M	171	GLN
1	M	172	CYS
1	M	173	LYS
1	M	175	ASP
1	M	177	LYS
1	M	178	ILE
1	M	179	PHE
1	M	186	CYS
1	M	190	GLU
1	M	191	THR
1	M	192	VAL
1	M	195	MET
1	M	196	LEU
1	M	199	LEU
1	M	200	LEU
1	M	202	GLN

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Mol	Chain	Res	Type
1	M	207	TRP
1	M	210	ARG
1	M	212	ASP
1	M	217	ILE
1	M	218	LYS
1	M	219	LEU
1	M	221	ILE
1	M	224	ILE
1	M	228	LEU
1	M	229	ARG
1	M	233	LYS
1	M	235	LYS
1	M	238	GLU
1	M	240	CYS
1	M	241	LEU
1	M	242	LEU
1	M	246	ASN
1	M	251	LYS
1	M	256	PHE
1	M	258	LEU
1	M	260	CYS
1	M	263	LEU
1	M	264	LEU
1	M	265	THR
1	M	268	PHE
1	M	275	LEU
1	M	280	THR
1	M	283	ILE
1	M	285	LEU
1	M	290	MET
1	M	293	THR
1	M	301	LEU
1	M	302	LEU
1	M	303	LYS
1	M	304	TYR
1	M	305	LEU
1	M	307	CYS
1	M	317	LEU
1	M	320	ASN
1	M	322	ARG
1	M	349	LEU
1	M	352	ILE

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Mol	Chain	Res	Type
1	M	358	ASN
1	M	360	LEU
1	M	361	GLU
1	M	368	MET
1	M	375	PHE
1	M	378	SER
1	M	388	LEU
1	M	389	ILE
1	M	399	MET
1	M	404	LYS
1	M	405	LEU
1	M	406	HIS
1	M	413	LYS
1	M	414	GLN
1	M	418	SER
1	M	422	ILE
1	M	425	ILE
1	M	426	TYR
1	M	429	LEU
1	M	435	ASN
1	M	439	LEU
1	M	449	ILE
1	M	463	LEU
1	M	470	HIS
1	M	488	ARG
1	M	492	LEU
1	M	493	ASP
1	M	494	PHE
1	M	495	ARG
1	M	500	LYS
1	M	501	ILE
1	M	522	LYS
1	M	528	ILE
1	M	536	GLU
1	M	538	LEU
1	M	539	VAL
1	M	542	ILE
1	M	557	LYS
1	M	562	LEU
1	M	564	ILE
1	M	573	ILE
1	M	581	VAL

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Mol	Chain	Res	Type
2	N	12	LYS
2	N	13	ARG
2	N	19	ARG
2	N	20	LYS
2	N	21	ASN
2	N	22	LEU
2	N	23	ASN
2	N	27	GLU
2	N	40	GLN
2	N	44	LEU
2	N	49	LEU
2	N	50	ARG
2	N	54	ASP
2	N	61	ASN
2	N	62	MET
2	N	64	GLU
2	N	70	GLU
2	N	71	GLN
2	N	73	ARG
2	N	77	LEU
2	N	80	THR
2	N	81	GLN
2	N	82	ARG
2	N	85	THR
2	N	87	TYR
2	N	100	LEU
2	N	105	LEU
2	N	109	VAL
2	N	111	GLU
1	O	15	ILE
1	O	17	SER
1	O	19	PHE
1	O	20	GLU
1	O	23	PHE
1	O	26	ASN
1	O	34	ASP
1	O	37	LYS
1	O	39	ILE
1	O	40	LEU
1	O	41	SER
1	O	42	LYS
1	O	44	GLU

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Mol	Chain	Res	Type
1	O	49	ILE
1	O	50	MET
1	O	52	LYS
1	O	59	LEU
1	O	60	ARG
1	O	70	GLU
1	O	74	GLN
1	O	75	LYS
1	O	78	GLU
1	O	81	LEU
1	O	82	ARG
1	O	86	LYS
1	O	87	PHE
1	O	90	SER
1	O	93	LYS
1	O	96	GLN
1	O	104	ARG
1	O	105	MET
1	O	106	TYR
1	O	109	GLN
1	O	110	ARG
1	O	122	LYS
1	O	129	GLN
1	O	132	LEU
1	O	135	ARG
1	O	141	LEU
1	O	142	ARG
1	O	148	LEU
1	O	149	ILE
1	O	157	LYS
1	O	162	LEU
1	O	163	ASP
1	O	165	CYS
1	O	166	LEU
1	O	167	SER
1	O	171	GLN
1	O	172	CYS
1	O	173	LYS
1	O	175	ASP
1	O	177	LYS
1	O	178	ILE
1	O	179	PHE

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Mol	Chain	Res	Type
1	O	186	CYS
1	O	190	GLU
1	O	191	THR
1	O	192	VAL
1	O	195	MET
1	O	196	LEU
1	O	199	LEU
1	O	200	LEU
1	O	202	GLN
1	O	207	TRP
1	O	210	ARG
1	O	212	ASP
1	O	217	ILE
1	O	218	LYS
1	O	219	LEU
1	O	221	ILE
1	O	224	ILE
1	O	228	LEU
1	O	229	ARG
1	O	233	LYS
1	O	235	LYS
1	O	238	GLU
1	O	240	CYS
1	O	241	LEU
1	O	242	LEU
1	O	246	ASN
1	O	251	LYS
1	O	256	PHE
1	O	258	LEU
1	O	260	CYS
1	O	263	LEU
1	O	264	LEU
1	O	265	THR
1	O	268	PHE
1	O	275	LEU
1	O	280	THR
1	O	283	ILE
1	O	285	LEU
1	O	290	MET
1	O	293	THR
1	O	301	LEU
1	O	302	LEU

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Mol	Chain	Res	Type
1	O	303	LYS
1	O	304	TYR
1	O	305	LEU
1	O	307	CYS
1	O	317	LEU
1	O	320	ASN
1	O	322	ARG
1	O	349	LEU
1	O	352	ILE
1	O	358	ASN
1	O	360	LEU
1	O	361	GLU
1	O	368	MET
1	O	375	PHE
1	O	378	SER
1	O	388	LEU
1	O	389	ILE
1	O	399	MET
1	O	404	LYS
1	O	405	LEU
1	O	406	HIS
1	O	413	LYS
1	O	414	GLN
1	O	418	SER
1	O	422	ILE
1	O	425	ILE
1	O	426	TYR
1	O	429	LEU
1	O	435	ASN
1	O	439	LEU
1	O	449	ILE
1	O	463	LEU
1	O	470	HIS
1	O	488	ARG
1	O	492	LEU
1	O	493	ASP
1	O	494	PHE
1	O	495	ARG
1	O	500	LYS
1	O	501	ILE
1	O	522	LYS
1	O	528	ILE

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Mol	Chain	Res	Type
1	O	536	GLU
1	O	538	LEU
1	O	539	VAL
1	O	542	ILE
1	O	557	LYS
1	O	562	LEU
1	O	564	ILE
1	O	573	ILE
1	O	581	VAL
2	P	12	LYS
2	P	13	ARG
2	P	19	ARG
2	P	20	LYS
2	P	21	ASN
2	P	22	LEU
2	P	23	ASN
2	P	27	GLU
2	P	40	GLN
2	P	44	LEU
2	P	49	LEU
2	P	50	ARG
2	P	54	ASP
2	P	61	ASN
2	P	62	MET
2	P	64	GLU
2	P	70	GLU
2	P	71	GLN
2	P	73	ARG
2	P	77	LEU
2	P	80	THR
2	P	81	GLN
2	P	82	ARG
2	P	85	THR
2	P	87	TYR
2	P	100	LEU
2	P	105	LEU
2	P	109	VAL
2	P	111	GLU
1	Q	15	ILE
1	Q	17	SER
1	Q	19	PHE
1	Q	20	GLU

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Mol	Chain	Res	Type
1	Q	23	PHE
1	Q	26	ASN
1	Q	34	ASP
1	Q	37	LYS
1	Q	39	ILE
1	Q	40	LEU
1	Q	41	SER
1	Q	42	LYS
1	Q	44	GLU
1	Q	49	ILE
1	Q	50	MET
1	Q	52	LYS
1	Q	59	LEU
1	Q	60	ARG
1	Q	70	GLU
1	Q	74	GLN
1	Q	75	LYS
1	Q	78	GLU
1	Q	81	LEU
1	Q	82	ARG
1	Q	86	LYS
1	Q	87	PHE
1	Q	90	SER
1	Q	93	LYS
1	Q	96	GLN
1	Q	104	ARG
1	Q	105	MET
1	Q	106	TYR
1	Q	109	GLN
1	Q	110	ARG
1	Q	122	LYS
1	Q	129	GLN
1	Q	132	LEU
1	Q	135	ARG
1	Q	141	LEU
1	Q	142	ARG
1	Q	148	LEU
1	Q	149	ILE
1	Q	157	LYS
1	Q	162	LEU
1	Q	163	ASP
1	Q	165	CYS

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Mol	Chain	Res	Type
1	Q	166	LEU
1	Q	167	SER
1	Q	171	GLN
1	Q	172	CYS
1	Q	173	LYS
1	Q	175	ASP
1	Q	177	LYS
1	Q	178	ILE
1	Q	179	PHE
1	Q	186	CYS
1	Q	190	GLU
1	Q	191	THR
1	Q	192	VAL
1	Q	195	MET
1	Q	196	LEU
1	Q	199	LEU
1	Q	200	LEU
1	Q	202	GLN
1	Q	207	TRP
1	Q	210	ARG
1	Q	212	ASP
1	Q	217	ILE
1	Q	218	LYS
1	Q	219	LEU
1	Q	221	ILE
1	Q	224	ILE
1	Q	228	LEU
1	Q	229	ARG
1	Q	233	LYS
1	Q	235	LYS
1	Q	238	GLU
1	Q	240	CYS
1	Q	241	LEU
1	Q	242	LEU
1	Q	246	ASN
1	Q	251	LYS
1	Q	256	PHE
1	Q	258	LEU
1	Q	260	CYS
1	Q	263	LEU
1	Q	264	LEU
1	Q	265	THR

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Mol	Chain	Res	Type
1	Q	268	PHE
1	Q	275	LEU
1	Q	280	THR
1	Q	283	ILE
1	Q	285	LEU
1	Q	290	MET
1	Q	293	THR
1	Q	301	LEU
1	Q	302	LEU
1	Q	303	LYS
1	Q	304	TYR
1	Q	305	LEU
1	Q	307	CYS
1	Q	317	LEU
1	Q	320	ASN
1	Q	322	ARG
1	Q	349	LEU
1	Q	352	ILE
1	Q	358	ASN
1	Q	360	LEU
1	Q	361	GLU
1	Q	368	MET
1	Q	375	PHE
1	Q	378	SER
1	Q	388	LEU
1	Q	389	ILE
1	Q	399	MET
1	Q	404	LYS
1	Q	405	LEU
1	Q	406	HIS
1	Q	413	LYS
1	Q	414	GLN
1	Q	418	SER
1	Q	422	ILE
1	Q	425	ILE
1	Q	426	TYR
1	Q	429	LEU
1	Q	435	ASN
1	Q	439	LEU
1	Q	449	ILE
1	Q	463	LEU
1	Q	470	HIS

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Mol	Chain	Res	Type
1	Q	488	ARG
1	Q	492	LEU
1	Q	493	ASP
1	Q	494	PHE
1	Q	495	ARG
1	Q	500	LYS
1	Q	501	ILE
1	Q	522	LYS
1	Q	528	ILE
1	Q	536	GLU
1	Q	538	LEU
1	Q	539	VAL
1	Q	542	ILE
1	Q	557	LYS
1	Q	562	LEU
1	Q	564	ILE
1	Q	573	ILE
1	Q	581	VAL
2	R	12	LYS
2	R	13	ARG
2	R	19	ARG
2	R	20	LYS
2	R	21	ASN
2	R	22	LEU
2	R	23	ASN
2	R	27	GLU
2	R	40	GLN
2	R	44	LEU
2	R	49	LEU
2	R	50	ARG
2	R	54	ASP
2	R	61	ASN
2	R	62	MET
2	R	64	GLU
2	R	70	GLU
2	R	71	GLN
2	R	73	ARG
2	R	77	LEU
2	R	80	THR
2	R	81	GLN
2	R	82	ARG
2	R	85	THR

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Mol	Chain	Res	Type
2	R	87	TYR
2	R	100	LEU
2	R	105	LEU
2	R	109	VAL
2	R	111	GLU
1	S	15	ILE
1	S	17	SER
1	S	19	PHE
1	S	20	GLU
1	S	23	PHE
1	S	26	ASN
1	S	34	ASP
1	S	37	LYS
1	S	39	ILE
1	S	40	LEU
1	S	41	SER
1	S	42	LYS
1	S	44	GLU
1	S	49	ILE
1	S	50	MET
1	S	52	LYS
1	S	59	LEU
1	S	60	ARG
1	S	70	GLU
1	S	74	GLN
1	S	75	LYS
1	S	78	GLU
1	S	81	LEU
1	S	82	ARG
1	S	86	LYS
1	S	87	PHE
1	S	90	SER
1	S	93	LYS
1	S	96	GLN
1	S	104	ARG
1	S	105	MET
1	S	106	TYR
1	S	109	GLN
1	S	110	ARG
1	S	122	LYS
1	S	129	GLN
1	S	132	LEU

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Mol	Chain	Res	Type
1	S	135	ARG
1	S	141	LEU
1	S	142	ARG
1	S	148	LEU
1	S	149	ILE
1	S	157	LYS
1	S	162	LEU
1	S	163	ASP
1	S	165	CYS
1	S	166	LEU
1	S	167	SER
1	S	171	GLN
1	S	172	CYS
1	S	173	LYS
1	S	175	ASP
1	S	177	LYS
1	S	178	ILE
1	S	179	PHE
1	S	186	CYS
1	S	190	GLU
1	S	191	THR
1	S	192	VAL
1	S	195	MET
1	S	196	LEU
1	S	199	LEU
1	S	200	LEU
1	S	202	GLN
1	S	207	TRP
1	S	210	ARG
1	S	212	ASP
1	S	217	ILE
1	S	218	LYS
1	S	219	LEU
1	S	221	ILE
1	S	224	ILE
1	S	228	LEU
1	S	229	ARG
1	S	233	LYS
1	S	235	LYS
1	S	238	GLU
1	S	240	CYS
1	S	241	LEU

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Mol	Chain	Res	Type
1	S	242	LEU
1	S	246	ASN
1	S	251	LYS
1	S	256	PHE
1	S	258	LEU
1	S	260	CYS
1	S	263	LEU
1	S	264	LEU
1	S	265	THR
1	S	268	PHE
1	S	275	LEU
1	S	280	THR
1	S	283	ILE
1	S	285	LEU
1	S	290	MET
1	S	293	THR
1	S	301	LEU
1	S	302	LEU
1	S	303	LYS
1	S	304	TYR
1	S	305	LEU
1	S	307	CYS
1	S	317	LEU
1	S	320	ASN
1	S	322	ARG
1	S	349	LEU
1	S	352	ILE
1	S	358	ASN
1	S	360	LEU
1	S	361	GLU
1	S	368	MET
1	S	375	PHE
1	S	378	SER
1	S	388	LEU
1	S	389	ILE
1	S	399	MET
1	S	404	LYS
1	S	405	LEU
1	S	406	HIS
1	S	413	LYS
1	S	414	GLN
1	S	418	SER

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Mol	Chain	Res	Type
1	S	422	ILE
1	S	425	ILE
1	S	426	TYR
1	S	429	LEU
1	S	435	ASN
1	S	439	LEU
1	S	449	ILE
1	S	463	LEU
1	S	470	HIS
1	S	488	ARG
1	S	492	LEU
1	S	493	ASP
1	S	494	PHE
1	S	495	ARG
1	S	500	LYS
1	S	501	ILE
1	S	522	LYS
1	S	528	ILE
1	S	536	GLU
1	S	538	LEU
1	S	539	VAL
1	S	542	ILE
1	S	557	LYS
1	S	562	LEU
1	S	564	ILE
1	S	573	ILE
1	S	581	VAL
2	T	12	LYS
2	T	13	ARG
2	T	19	ARG
2	T	20	LYS
2	T	21	ASN
2	T	22	LEU
2	T	23	ASN
2	T	27	GLU
2	T	40	GLN
2	T	44	LEU
2	T	49	LEU
2	T	50	ARG
2	T	54	ASP
2	T	61	ASN
2	T	62	MET

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Mol	Chain	Res	Type
2	T	64	GLU
2	T	70	GLU
2	T	71	GLN
2	T	73	ARG
2	T	77	LEU
2	T	80	THR
2	T	81	GLN
2	T	82	ARG
2	T	85	THR
2	T	87	TYR
2	T	100	LEU
2	T	105	LEU
2	T	109	VAL
2	T	111	GLU
1	U	15	ILE
1	U	17	SER
1	U	19	PHE
1	U	20	GLU
1	U	23	PHE
1	U	26	ASN
1	U	34	ASP
1	U	37	LYS
1	U	39	ILE
1	U	40	LEU
1	U	41	SER
1	U	42	LYS
1	U	44	GLU
1	U	49	ILE
1	U	50	MET
1	U	52	LYS
1	U	59	LEU
1	U	60	ARG
1	U	70	GLU
1	U	74	GLN
1	U	75	LYS
1	U	78	GLU
1	U	81	LEU
1	U	82	ARG
1	U	86	LYS
1	U	87	PHE
1	U	90	SER
1	U	93	LYS

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Mol	Chain	Res	Type
1	U	96	GLN
1	U	104	ARG
1	U	105	MET
1	U	106	TYR
1	U	109	GLN
1	U	110	ARG
1	U	122	LYS
1	U	129	GLN
1	U	132	LEU
1	U	135	ARG
1	U	141	LEU
1	U	142	ARG
1	U	148	LEU
1	U	149	ILE
1	U	157	LYS
1	U	162	LEU
1	U	163	ASP
1	U	165	CYS
1	U	166	LEU
1	U	167	SER
1	U	171	GLN
1	U	172	CYS
1	U	173	LYS
1	U	175	ASP
1	U	177	LYS
1	U	178	ILE
1	U	179	PHE
1	U	186	CYS
1	U	190	GLU
1	U	191	THR
1	U	192	VAL
1	U	195	MET
1	U	196	LEU
1	U	199	LEU
1	U	200	LEU
1	U	202	GLN
1	U	207	TRP
1	U	210	ARG
1	U	212	ASP
1	U	217	ILE
1	U	218	LYS
1	U	219	LEU

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Mol	Chain	Res	Type
1	U	221	ILE
1	U	224	ILE
1	U	228	LEU
1	U	229	ARG
1	U	233	LYS
1	U	235	LYS
1	U	238	GLU
1	U	240	CYS
1	U	241	LEU
1	U	242	LEU
1	U	246	ASN
1	U	251	LYS
1	U	256	PHE
1	U	258	LEU
1	U	260	CYS
1	U	263	LEU
1	U	264	LEU
1	U	265	THR
1	U	268	PHE
1	U	275	LEU
1	U	280	THR
1	U	283	ILE
1	U	285	LEU
1	U	290	MET
1	U	293	THR
1	U	301	LEU
1	U	302	LEU
1	U	303	LYS
1	U	304	TYR
1	U	305	LEU
1	U	307	CYS
1	U	317	LEU
1	U	320	ASN
1	U	322	ARG
1	U	349	LEU
1	U	352	ILE
1	U	358	ASN
1	U	360	LEU
1	U	361	GLU
1	U	368	MET
1	U	375	PHE
1	U	378	SER

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Mol	Chain	Res	Type
1	U	388	LEU
1	U	389	ILE
1	U	399	MET
1	U	404	LYS
1	U	405	LEU
1	U	406	HIS
1	U	413	LYS
1	U	414	GLN
1	U	418	SER
1	U	422	ILE
1	U	425	ILE
1	U	426	TYR
1	U	429	LEU
1	U	435	ASN
1	U	439	LEU
1	U	449	ILE
1	U	463	LEU
1	U	470	HIS
1	U	488	ARG
1	U	492	LEU
1	U	493	ASP
1	U	494	PHE
1	U	495	ARG
1	U	500	LYS
1	U	501	ILE
1	U	522	LYS
1	U	528	ILE
1	U	536	GLU
1	U	538	LEU
1	U	539	VAL
1	U	542	ILE
1	U	557	LYS
1	U	562	LEU
1	U	564	ILE
1	U	573	ILE
1	U	581	VAL
2	V	12	LYS
2	V	13	ARG
2	V	19	ARG
2	V	20	LYS
2	V	21	ASN
2	V	22	LEU

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Mol	Chain	Res	Type
2	V	23	ASN
2	V	27	GLU
2	V	40	GLN
2	V	44	LEU
2	V	49	LEU
2	V	50	ARG
2	V	54	ASP
2	V	61	ASN
2	V	62	MET
2	V	64	GLU
2	V	70	GLU
2	V	71	GLN
2	V	73	ARG
2	V	77	LEU
2	V	80	THR
2	V	81	GLN
2	V	82	ARG
2	V	85	THR
2	V	87	TYR
2	V	100	LEU
2	V	105	LEU
2	V	109	VAL
2	V	111	GLU
1	W	15	ILE
1	W	17	SER
1	W	19	PHE
1	W	20	GLU
1	W	23	PHE
1	W	26	ASN
1	W	34	ASP
1	W	37	LYS
1	W	39	ILE
1	W	40	LEU
1	W	41	SER
1	W	42	LYS
1	W	44	GLU
1	W	49	ILE
1	W	50	MET
1	W	52	LYS
1	W	59	LEU
1	W	60	ARG
1	W	70	GLU

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Mol	Chain	Res	Type
1	W	74	GLN
1	W	75	LYS
1	W	78	GLU
1	W	81	LEU
1	W	82	ARG
1	W	86	LYS
1	W	87	PHE
1	W	90	SER
1	W	93	LYS
1	W	96	GLN
1	W	104	ARG
1	W	105	MET
1	W	106	TYR
1	W	109	GLN
1	W	110	ARG
1	W	122	LYS
1	W	129	GLN
1	W	132	LEU
1	W	135	ARG
1	W	141	LEU
1	W	142	ARG
1	W	148	LEU
1	W	149	ILE
1	W	157	LYS
1	W	162	LEU
1	W	163	ASP
1	W	165	CYS
1	W	166	LEU
1	W	167	SER
1	W	171	GLN
1	W	172	CYS
1	W	173	LYS
1	W	175	ASP
1	W	177	LYS
1	W	178	ILE
1	W	179	PHE
1	W	186	CYS
1	W	190	GLU
1	W	191	THR
1	W	192	VAL
1	W	195	MET
1	W	196	LEU

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Mol	Chain	Res	Type
1	W	199	LEU
1	W	200	LEU
1	W	202	GLN
1	W	207	TRP
1	W	210	ARG
1	W	212	ASP
1	W	217	ILE
1	W	218	LYS
1	W	219	LEU
1	W	221	ILE
1	W	224	ILE
1	W	228	LEU
1	W	229	ARG
1	W	233	LYS
1	W	235	LYS
1	W	238	GLU
1	W	240	CYS
1	W	241	LEU
1	W	242	LEU
1	W	246	ASN
1	W	251	LYS
1	W	256	PHE
1	W	258	LEU
1	W	260	CYS
1	W	263	LEU
1	W	264	LEU
1	W	265	THR
1	W	268	PHE
1	W	275	LEU
1	W	280	THR
1	W	283	ILE
1	W	285	LEU
1	W	290	MET
1	W	293	THR
1	W	301	LEU
1	W	302	LEU
1	W	303	LYS
1	W	304	TYR
1	W	305	LEU
1	W	307	CYS
1	W	317	LEU
1	W	320	ASN

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Mol	Chain	Res	Type
1	W	322	ARG
1	W	349	LEU
1	W	352	ILE
1	W	358	ASN
1	W	360	LEU
1	W	361	GLU
1	W	368	MET
1	W	375	PHE
1	W	378	SER
1	W	388	LEU
1	W	389	ILE
1	W	399	MET
1	W	404	LYS
1	W	405	LEU
1	W	406	HIS
1	W	413	LYS
1	W	414	GLN
1	W	418	SER
1	W	422	ILE
1	W	425	ILE
1	W	426	TYR
1	W	429	LEU
1	W	435	ASN
1	W	439	LEU
1	W	449	ILE
1	W	463	LEU
1	W	470	HIS
1	W	488	ARG
1	W	492	LEU
1	W	493	ASP
1	W	494	PHE
1	W	495	ARG
1	W	500	LYS
1	W	501	ILE
1	W	522	LYS
1	W	528	ILE
1	W	536	GLU
1	W	538	LEU
1	W	539	VAL
1	W	542	ILE
1	W	557	LYS
1	W	562	LEU

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Mol	Chain	Res	Type
1	W	564	ILE
1	W	573	ILE
1	W	581	VAL
2	X	12	LYS
2	X	13	ARG
2	X	19	ARG
2	X	20	LYS
2	X	21	ASN
2	X	22	LEU
2	X	23	ASN
2	X	27	GLU
2	X	40	GLN
2	X	44	LEU
2	X	49	LEU
2	X	50	ARG
2	X	54	ASP
2	X	61	ASN
2	X	62	MET
2	X	64	GLU
2	X	70	GLU
2	X	71	GLN
2	X	73	ARG
2	X	77	LEU
2	X	80	THR
2	X	81	GLN
2	X	82	ARG
2	X	85	THR
2	X	87	TYR
2	X	100	LEU
2	X	105	LEU
2	X	109	VAL
2	X	111	GLU
1	Y	15	ILE
1	Y	17	SER
1	Y	19	PHE
1	Y	20	GLU
1	Y	23	PHE
1	Y	26	ASN
1	Y	34	ASP
1	Y	37	LYS
1	Y	39	ILE
1	Y	40	LEU

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Mol	Chain	Res	Type
1	Y	41	SER
1	Y	42	LYS
1	Y	44	GLU
1	Y	49	ILE
1	Y	50	MET
1	Y	52	LYS
1	Y	59	LEU
1	Y	60	ARG
1	Y	70	GLU
1	Y	74	GLN
1	Y	75	LYS
1	Y	78	GLU
1	Y	81	LEU
1	Y	82	ARG
1	Y	86	LYS
1	Y	87	PHE
1	Y	90	SER
1	Y	93	LYS
1	Y	96	GLN
1	Y	104	ARG
1	Y	105	MET
1	Y	106	TYR
1	Y	109	GLN
1	Y	110	ARG
1	Y	122	LYS
1	Y	129	GLN
1	Y	132	LEU
1	Y	135	ARG
1	Y	141	LEU
1	Y	142	ARG
1	Y	148	LEU
1	Y	149	ILE
1	Y	157	LYS
1	Y	162	LEU
1	Y	163	ASP
1	Y	165	CYS
1	Y	166	LEU
1	Y	167	SER
1	Y	171	GLN
1	Y	172	CYS
1	Y	173	LYS
1	Y	175	ASP

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Mol	Chain	Res	Type
1	Y	177	LYS
1	Y	178	ILE
1	Y	179	PHE
1	Y	186	CYS
1	Y	190	GLU
1	Y	191	THR
1	Y	192	VAL
1	Y	195	MET
1	Y	196	LEU
1	Y	199	LEU
1	Y	200	LEU
1	Y	202	GLN
1	Y	207	TRP
1	Y	210	ARG
1	Y	212	ASP
1	Y	217	ILE
1	Y	218	LYS
1	Y	219	LEU
1	Y	221	ILE
1	Y	224	ILE
1	Y	228	LEU
1	Y	229	ARG
1	Y	233	LYS
1	Y	235	LYS
1	Y	238	GLU
1	Y	240	CYS
1	Y	241	LEU
1	Y	242	LEU
1	Y	246	ASN
1	Y	251	LYS
1	Y	256	PHE
1	Y	258	LEU
1	Y	260	CYS
1	Y	263	LEU
1	Y	264	LEU
1	Y	265	THR
1	Y	268	PHE
1	Y	275	LEU
1	Y	280	THR
1	Y	283	ILE
1	Y	285	LEU
1	Y	290	MET

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Mol	Chain	Res	Type
1	Y	293	THR
1	Y	301	LEU
1	Y	302	LEU
1	Y	303	LYS
1	Y	304	TYR
1	Y	305	LEU
1	Y	307	CYS
1	Y	317	LEU
1	Y	320	ASN
1	Y	322	ARG
1	Y	349	LEU
1	Y	352	ILE
1	Y	358	ASN
1	Y	360	LEU
1	Y	361	GLU
1	Y	368	MET
1	Y	375	PHE
1	Y	378	SER
1	Y	388	LEU
1	Y	389	ILE
1	Y	399	MET
1	Y	404	LYS
1	Y	405	LEU
1	Y	406	HIS
1	Y	413	LYS
1	Y	414	GLN
1	Y	418	SER
1	Y	422	ILE
1	Y	425	ILE
1	Y	426	TYR
1	Y	429	LEU
1	Y	435	ASN
1	Y	439	LEU
1	Y	449	ILE
1	Y	463	LEU
1	Y	470	HIS
1	Y	488	ARG
1	Y	492	LEU
1	Y	493	ASP
1	Y	494	PHE
1	Y	495	ARG
1	Y	500	LYS

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Mol	Chain	Res	Type
1	Y	501	ILE
1	Y	522	LYS
1	Y	528	ILE
1	Y	536	GLU
1	Y	538	LEU
1	Y	539	VAL
1	Y	542	ILE
1	Y	557	LYS
1	Y	562	LEU
1	Y	564	ILE
1	Y	573	ILE
1	Y	581	VAL
2	Z	12	LYS
2	Z	13	ARG
2	Z	19	ARG
2	Z	20	LYS
2	Z	21	ASN
2	Z	22	LEU
2	Z	23	ASN
2	Z	27	GLU
2	Z	40	GLN
2	Z	44	LEU
2	Z	49	LEU
2	Z	50	ARG
2	Z	54	ASP
2	Z	61	ASN
2	Z	62	MET
2	Z	64	GLU
2	Z	70	GLU
2	Z	71	GLN
2	Z	73	ARG
2	Z	77	LEU
2	Z	80	THR
2	Z	81	GLN
2	Z	82	ARG
2	Z	85	THR
2	Z	87	TYR
2	Z	100	LEU
2	Z	105	LEU
2	Z	109	VAL
2	Z	111	GLU
1	a	15	ILE

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Mol	Chain	Res	Type
1	a	17	SER
1	a	19	PHE
1	a	20	GLU
1	a	23	PHE
1	a	26	ASN
1	a	34	ASP
1	a	37	LYS
1	a	39	ILE
1	a	40	LEU
1	a	41	SER
1	a	42	LYS
1	a	44	GLU
1	a	49	ILE
1	a	50	MET
1	a	52	LYS
1	a	59	LEU
1	a	60	ARG
1	a	70	GLU
1	a	74	GLN
1	a	75	LYS
1	a	78	GLU
1	a	81	LEU
1	a	82	ARG
1	a	86	LYS
1	a	87	PHE
1	a	90	SER
1	a	93	LYS
1	a	96	GLN
1	a	104	ARG
1	a	105	MET
1	a	106	TYR
1	a	109	GLN
1	a	110	ARG
1	a	122	LYS
1	a	129	GLN
1	a	132	LEU
1	a	135	ARG
1	a	141	LEU
1	a	142	ARG
1	a	148	LEU
1	a	149	ILE
1	a	157	LYS

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Mol	Chain	Res	Type
1	a	162	LEU
1	a	163	ASP
1	a	165	CYS
1	a	166	LEU
1	a	167	SER
1	a	171	GLN
1	a	172	CYS
1	a	173	LYS
1	a	175	ASP
1	a	177	LYS
1	a	178	ILE
1	a	179	PHE
1	a	186	CYS
1	a	190	GLU
1	a	191	THR
1	a	192	VAL
1	a	195	MET
1	a	196	LEU
1	a	199	LEU
1	a	200	LEU
1	a	202	GLN
1	a	207	TRP
1	a	210	ARG
1	a	212	ASP
1	a	217	ILE
1	a	218	LYS
1	a	219	LEU
1	a	221	ILE
1	a	224	ILE
1	a	228	LEU
1	a	229	ARG
1	a	233	LYS
1	a	235	LYS
1	a	238	GLU
1	a	240	CYS
1	a	241	LEU
1	a	242	LEU
1	a	246	ASN
1	a	251	LYS
1	a	256	PHE
1	a	258	LEU
1	a	260	CYS

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Mol	Chain	Res	Type
1	a	263	LEU
1	a	264	LEU
1	a	265	THR
1	a	268	PHE
1	a	275	LEU
1	a	280	THR
1	a	283	ILE
1	a	285	LEU
1	a	290	MET
1	a	293	THR
1	a	301	LEU
1	a	302	LEU
1	a	303	LYS
1	a	304	TYR
1	a	305	LEU
1	a	307	CYS
1	a	317	LEU
1	a	320	ASN
1	a	322	ARG
1	a	349	LEU
1	a	352	ILE
1	a	358	ASN
1	a	360	LEU
1	a	361	GLU
1	a	368	MET
1	a	375	PHE
1	a	378	SER
1	a	388	LEU
1	a	389	ILE
1	a	399	MET
1	a	404	LYS
1	a	405	LEU
1	a	406	HIS
1	a	413	LYS
1	a	414	GLN
1	a	418	SER
1	a	422	ILE
1	a	425	ILE
1	a	426	TYR
1	a	429	LEU
1	a	435	ASN
1	a	439	LEU

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Mol	Chain	Res	Type
1	a	449	ILE
1	a	463	LEU
1	a	470	HIS
1	a	488	ARG
1	a	492	LEU
1	a	493	ASP
1	a	494	PHE
1	a	495	ARG
1	a	500	LYS
1	a	501	ILE
1	a	522	LYS
1	a	528	ILE
1	a	536	GLU
1	a	538	LEU
1	a	539	VAL
1	a	542	ILE
1	a	557	LYS
1	a	562	LEU
1	a	564	ILE
1	a	573	ILE
1	a	581	VAL
2	b	12	LYS
2	b	13	ARG
2	b	19	ARG
2	b	20	LYS
2	b	21	ASN
2	b	22	LEU
2	b	23	ASN
2	b	27	GLU
2	b	40	GLN
2	b	44	LEU
2	b	49	LEU
2	b	50	ARG
2	b	54	ASP
2	b	61	ASN
2	b	62	MET
2	b	64	GLU
2	b	70	GLU
2	b	71	GLN
2	b	73	ARG
2	b	77	LEU
2	b	80	THR

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Mol	Chain	Res	Type
2	b	81	GLN
2	b	82	ARG
2	b	85	THR
2	b	87	TYR
2	b	100	LEU
2	b	105	LEU
2	b	109	VAL
2	b	111	GLU
1	c	15	ILE
1	c	17	SER
1	c	19	PHE
1	c	20	GLU
1	c	23	PHE
1	c	26	ASN
1	c	34	ASP
1	c	37	LYS
1	c	39	ILE
1	c	40	LEU
1	c	41	SER
1	c	42	LYS
1	c	44	GLU
1	c	49	ILE
1	c	50	MET
1	c	52	LYS
1	c	59	LEU
1	c	60	ARG
1	c	70	GLU
1	c	74	GLN
1	c	75	LYS
1	c	78	GLU
1	c	81	LEU
1	c	82	ARG
1	c	86	LYS
1	c	87	PHE
1	c	90	SER
1	c	93	LYS
1	c	96	GLN
1	c	104	ARG
1	c	105	MET
1	c	106	TYR
1	c	109	GLN
1	c	110	ARG

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Mol	Chain	Res	Type
1	c	122	LYS
1	c	129	GLN
1	c	132	LEU
1	c	135	ARG
1	c	141	LEU
1	c	142	ARG
1	c	148	LEU
1	c	149	ILE
1	c	157	LYS
1	c	162	LEU
1	c	163	ASP
1	c	165	CYS
1	c	166	LEU
1	c	167	SER
1	c	171	GLN
1	c	172	CYS
1	c	173	LYS
1	c	175	ASP
1	c	177	LYS
1	c	178	ILE
1	c	179	PHE
1	c	186	CYS
1	c	190	GLU
1	c	191	THR
1	c	192	VAL
1	c	195	MET
1	c	196	LEU
1	c	199	LEU
1	c	200	LEU
1	c	202	GLN
1	c	207	TRP
1	c	210	ARG
1	c	212	ASP
1	c	217	ILE
1	c	218	LYS
1	c	219	LEU
1	c	221	ILE
1	c	224	ILE
1	c	228	LEU
1	c	229	ARG
1	c	233	LYS
1	c	235	LYS

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Mol	Chain	Res	Type
1	c	238	GLU
1	c	240	CYS
1	c	241	LEU
1	c	242	LEU
1	c	246	ASN
1	c	251	LYS
1	c	256	PHE
1	c	258	LEU
1	c	260	CYS
1	c	263	LEU
1	c	264	LEU
1	c	265	THR
1	c	268	PHE
1	c	275	LEU
1	c	280	THR
1	c	283	ILE
1	c	285	LEU
1	c	290	MET
1	c	293	THR
1	c	301	LEU
1	c	302	LEU
1	c	303	LYS
1	c	304	TYR
1	c	305	LEU
1	c	307	CYS
1	c	317	LEU
1	c	320	ASN
1	c	322	ARG
1	c	349	LEU
1	c	352	ILE
1	c	358	ASN
1	c	360	LEU
1	c	361	GLU
1	c	368	MET
1	c	375	PHE
1	c	378	SER
1	c	388	LEU
1	c	389	ILE
1	c	399	MET
1	c	404	LYS
1	c	405	LEU
1	c	406	HIS

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Mol	Chain	Res	Type
1	c	413	LYS
1	c	414	GLN
1	c	418	SER
1	c	422	ILE
1	c	425	ILE
1	c	426	TYR
1	c	429	LEU
1	c	435	ASN
1	c	439	LEU
1	c	449	ILE
1	c	463	LEU
1	c	470	HIS
1	c	488	ARG
1	c	492	LEU
1	c	493	ASP
1	c	494	PHE
1	c	495	ARG
1	c	500	LYS
1	c	501	ILE
1	c	522	LYS
1	c	528	ILE
1	c	536	GLU
1	c	538	LEU
1	c	539	VAL
1	c	542	ILE
1	c	557	LYS
1	c	562	LEU
1	c	564	ILE
1	c	573	ILE
1	c	581	VAL
2	d	12	LYS
2	d	13	ARG
2	d	19	ARG
2	d	20	LYS
2	d	21	ASN
2	d	22	LEU
2	d	23	ASN
2	d	27	GLU
2	d	40	GLN
2	d	44	LEU
2	d	49	LEU
2	d	50	ARG

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Mol	Chain	Res	Type
2	d	54	ASP
2	d	61	ASN
2	d	62	MET
2	d	64	GLU
2	d	70	GLU
2	d	71	GLN
2	d	73	ARG
2	d	77	LEU
2	d	80	THR
2	d	81	GLN
2	d	82	ARG
2	d	85	THR
2	d	87	TYR
2	d	100	LEU
2	d	105	LEU
2	d	109	VAL
2	d	111	GLU
1	e	15	ILE
1	e	17	SER
1	e	19	PHE
1	e	20	GLU
1	e	23	PHE
1	e	26	ASN
1	e	34	ASP
1	e	37	LYS
1	e	39	ILE
1	e	40	LEU
1	e	41	SER
1	e	42	LYS
1	e	44	GLU
1	e	49	ILE
1	e	50	MET
1	e	52	LYS
1	e	59	LEU
1	e	60	ARG
1	e	70	GLU
1	e	74	GLN
1	e	75	LYS
1	e	78	GLU
1	e	81	LEU
1	e	82	ARG
1	e	86	LYS

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Mol	Chain	Res	Type
1	e	87	PHE
1	e	90	SER
1	e	93	LYS
1	e	96	GLN
1	e	104	ARG
1	e	105	MET
1	e	106	TYR
1	e	109	GLN
1	e	110	ARG
1	e	122	LYS
1	e	129	GLN
1	e	132	LEU
1	e	135	ARG
1	e	141	LEU
1	e	142	ARG
1	e	148	LEU
1	e	149	ILE
1	e	157	LYS
1	e	162	LEU
1	e	163	ASP
1	e	165	CYS
1	e	166	LEU
1	e	167	SER
1	e	171	GLN
1	e	172	CYS
1	e	173	LYS
1	e	175	ASP
1	e	177	LYS
1	e	178	ILE
1	e	179	PHE
1	e	186	CYS
1	e	190	GLU
1	e	191	THR
1	e	192	VAL
1	e	195	MET
1	e	196	LEU
1	e	199	LEU
1	e	200	LEU
1	e	202	GLN
1	e	207	TRP
1	e	210	ARG
1	e	212	ASP

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Mol	Chain	Res	Type
1	e	217	ILE
1	e	218	LYS
1	e	219	LEU
1	e	221	ILE
1	e	224	ILE
1	e	228	LEU
1	e	229	ARG
1	e	233	LYS
1	e	235	LYS
1	e	238	GLU
1	e	240	CYS
1	e	241	LEU
1	e	242	LEU
1	e	246	ASN
1	e	251	LYS
1	e	256	PHE
1	e	258	LEU
1	e	260	CYS
1	e	263	LEU
1	e	264	LEU
1	e	265	THR
1	e	268	PHE
1	e	275	LEU
1	e	280	THR
1	e	283	ILE
1	e	285	LEU
1	e	290	MET
1	e	293	THR
1	e	301	LEU
1	e	302	LEU
1	e	303	LYS
1	e	304	TYR
1	e	305	LEU
1	e	307	CYS
1	e	317	LEU
1	e	320	ASN
1	e	322	ARG
1	e	349	LEU
1	e	352	ILE
1	e	358	ASN
1	e	360	LEU
1	e	361	GLU

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Mol	Chain	Res	Type
1	e	368	MET
1	e	375	PHE
1	e	378	SER
1	e	388	LEU
1	e	389	ILE
1	e	399	MET
1	e	404	LYS
1	e	405	LEU
1	e	406	HIS
1	e	413	LYS
1	e	414	GLN
1	e	418	SER
1	e	422	ILE
1	e	425	ILE
1	e	426	TYR
1	e	429	LEU
1	e	435	ASN
1	e	439	LEU
1	e	449	ILE
1	e	463	LEU
1	e	470	HIS
1	e	488	ARG
1	e	492	LEU
1	e	493	ASP
1	e	494	PHE
1	e	495	ARG
1	e	500	LYS
1	e	501	ILE
1	e	522	LYS
1	e	528	ILE
1	e	536	GLU
1	e	538	LEU
1	e	539	VAL
1	e	542	ILE
1	e	557	LYS
1	e	562	LEU
1	e	564	ILE
1	e	573	ILE
1	e	581	VAL
2	f	12	LYS
2	f	13	ARG
2	f	19	ARG

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Mol	Chain	Res	Type
2	f	20	LYS
2	f	21	ASN
2	f	22	LEU
2	f	23	ASN
2	f	27	GLU
2	f	40	GLN
2	f	44	LEU
2	f	49	LEU
2	f	50	ARG
2	f	54	ASP
2	f	61	ASN
2	f	62	MET
2	f	64	GLU
2	f	70	GLU
2	f	71	GLN
2	f	73	ARG
2	f	77	LEU
2	f	80	THR
2	f	81	GLN
2	f	82	ARG
2	f	85	THR
2	f	87	TYR
2	f	100	LEU
2	f	105	LEU
2	f	109	VAL
2	f	111	GLU

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (334) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	96	GLN
1	A	98	GLN
1	A	109	GLN
1	A	118	GLN
1	A	216	ASN
1	A	222	HIS
1	A	239	ASN
1	A	249	ASN
1	A	282	HIS
1	A	288	HIS
1	A	320	ASN
1	A	343	HIS

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Mol	Chain	Res	Type
1	A	435	ASN
1	A	516	ASN
1	A	520	GLN
1	A	580	GLN
2	B	17	HIS
2	B	40	GLN
2	B	81	GLN
2	B	92	ASN
1	C	96	GLN
1	C	98	GLN
1	C	109	GLN
1	C	118	GLN
1	C	216	ASN
1	C	222	HIS
1	C	239	ASN
1	C	249	ASN
1	C	282	HIS
1	C	288	HIS
1	C	320	ASN
1	C	343	HIS
1	C	435	ASN
1	C	516	ASN
1	C	520	GLN
1	C	580	GLN
2	D	17	HIS
2	D	40	GLN
2	D	81	GLN
2	D	92	ASN
1	E	96	GLN
1	E	98	GLN
1	E	109	GLN
1	E	118	GLN
1	E	171	GLN
1	E	216	ASN
1	E	222	HIS
1	E	239	ASN
1	E	249	ASN
1	E	282	HIS
1	E	288	HIS
1	E	320	ASN
1	E	343	HIS
1	E	403	ASN

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Mol	Chain	Res	Type
1	E	435	ASN
1	E	516	ASN
1	E	520	GLN
1	E	580	GLN
2	F	17	HIS
2	F	40	GLN
2	F	81	GLN
2	F	92	ASN
1	G	96	GLN
1	G	98	GLN
1	G	109	GLN
1	G	118	GLN
1	G	171	GLN
1	G	216	ASN
1	G	222	HIS
1	G	239	ASN
1	G	249	ASN
1	G	282	HIS
1	G	288	HIS
1	G	320	ASN
1	G	343	HIS
1	G	435	ASN
1	G	516	ASN
1	G	520	GLN
1	G	580	GLN
2	H	17	HIS
2	H	40	GLN
2	H	81	GLN
2	H	92	ASN
1	I	96	GLN
1	I	98	GLN
1	I	109	GLN
1	I	118	GLN
1	I	216	ASN
1	I	222	HIS
1	I	239	ASN
1	I	249	ASN
1	I	282	HIS
1	I	288	HIS
1	I	320	ASN
1	I	343	HIS
1	I	435	ASN

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Mol	Chain	Res	Type
1	I	516	ASN
1	I	520	GLN
1	I	580	GLN
2	J	17	HIS
2	J	40	GLN
2	J	81	GLN
2	J	92	ASN
1	K	96	GLN
1	K	98	GLN
1	K	109	GLN
1	K	118	GLN
1	K	171	GLN
1	K	216	ASN
1	K	222	HIS
1	K	239	ASN
1	K	249	ASN
1	K	282	HIS
1	K	288	HIS
1	K	320	ASN
1	K	343	HIS
1	K	435	ASN
1	K	516	ASN
1	K	520	GLN
1	K	580	GLN
2	L	17	HIS
2	L	40	GLN
2	L	81	GLN
2	L	92	ASN
1	M	96	GLN
1	M	98	GLN
1	M	109	GLN
1	M	118	GLN
1	M	171	GLN
1	M	216	ASN
1	M	222	HIS
1	M	249	ASN
1	M	282	HIS
1	M	288	HIS
1	M	320	ASN
1	M	343	HIS
1	M	435	ASN
1	M	516	ASN

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Mol	Chain	Res	Type
1	M	520	GLN
1	M	580	GLN
2	N	17	HIS
2	N	40	GLN
2	N	81	GLN
2	N	92	ASN
1	O	96	GLN
1	O	98	GLN
1	O	109	GLN
1	O	118	GLN
1	O	171	GLN
1	O	216	ASN
1	O	222	HIS
1	O	239	ASN
1	O	249	ASN
1	O	282	HIS
1	O	288	HIS
1	O	320	ASN
1	O	343	HIS
1	O	435	ASN
1	O	516	ASN
1	O	520	GLN
1	O	580	GLN
2	P	17	HIS
2	P	40	GLN
2	P	81	GLN
2	P	92	ASN
1	Q	84	ASN
1	Q	96	GLN
1	Q	98	GLN
1	Q	109	GLN
1	Q	118	GLN
1	Q	171	GLN
1	Q	216	ASN
1	Q	222	HIS
1	Q	239	ASN
1	Q	249	ASN
1	Q	282	HIS
1	Q	288	HIS
1	Q	320	ASN
1	Q	343	HIS
1	Q	403	ASN

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Mol	Chain	Res	Type
1	Q	435	ASN
1	Q	516	ASN
1	Q	520	GLN
1	Q	580	GLN
2	R	17	HIS
2	R	40	GLN
2	R	81	GLN
2	R	92	ASN
1	S	96	GLN
1	S	98	GLN
1	S	109	GLN
1	S	118	GLN
1	S	171	GLN
1	S	216	ASN
1	S	222	HIS
1	S	239	ASN
1	S	249	ASN
1	S	282	HIS
1	S	288	HIS
1	S	320	ASN
1	S	343	HIS
1	S	516	ASN
1	S	520	GLN
1	S	580	GLN
2	T	17	HIS
2	T	40	GLN
2	T	81	GLN
2	T	92	ASN
1	U	96	GLN
1	U	98	GLN
1	U	109	GLN
1	U	118	GLN
1	U	171	GLN
1	U	216	ASN
1	U	222	HIS
1	U	239	ASN
1	U	249	ASN
1	U	282	HIS
1	U	288	HIS
1	U	320	ASN
1	U	343	HIS
1	U	403	ASN

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Mol	Chain	Res	Type
1	U	435	ASN
1	U	516	ASN
1	U	520	GLN
1	U	580	GLN
2	V	17	HIS
2	V	40	GLN
2	V	81	GLN
2	V	92	ASN
1	W	96	GLN
1	W	98	GLN
1	W	109	GLN
1	W	118	GLN
1	W	216	ASN
1	W	222	HIS
1	W	239	ASN
1	W	249	ASN
1	W	282	HIS
1	W	288	HIS
1	W	320	ASN
1	W	343	HIS
1	W	435	ASN
1	W	516	ASN
1	W	520	GLN
1	W	580	GLN
2	X	17	HIS
2	X	40	GLN
2	X	81	GLN
2	X	92	ASN
1	Y	96	GLN
1	Y	98	GLN
1	Y	109	GLN
1	Y	118	GLN
1	Y	171	GLN
1	Y	216	ASN
1	Y	222	HIS
1	Y	239	ASN
1	Y	249	ASN
1	Y	282	HIS
1	Y	288	HIS
1	Y	320	ASN
1	Y	343	HIS
1	Y	435	ASN

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Mol	Chain	Res	Type
1	Y	516	ASN
1	Y	520	GLN
1	Y	580	GLN
2	Z	17	HIS
2	Z	40	GLN
2	Z	81	GLN
2	Z	92	ASN
1	a	96	GLN
1	a	98	GLN
1	a	109	GLN
1	a	118	GLN
1	a	171	GLN
1	a	216	ASN
1	a	222	HIS
1	a	239	ASN
1	a	249	ASN
1	a	282	HIS
1	a	288	HIS
1	a	320	ASN
1	a	343	HIS
1	a	435	ASN
1	a	516	ASN
1	a	520	GLN
1	a	580	GLN
2	b	17	HIS
2	b	40	GLN
2	b	51	ASN
2	b	81	GLN
2	b	92	ASN
1	c	96	GLN
1	c	98	GLN
1	c	109	GLN
1	c	118	GLN
1	c	171	GLN
1	c	216	ASN
1	c	222	HIS
1	c	249	ASN
1	c	282	HIS
1	c	288	HIS
1	c	320	ASN
1	c	343	HIS
1	c	435	ASN

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Mol	Chain	Res	Type
1	c	516	ASN
1	c	520	GLN
1	c	580	GLN
2	d	17	HIS
2	d	40	GLN
2	d	81	GLN
2	d	92	ASN
1	e	96	GLN
1	e	98	GLN
1	e	109	GLN
1	e	118	GLN
1	e	171	GLN
1	e	216	ASN
1	e	222	HIS
1	e	239	ASN
1	e	249	ASN
1	e	282	HIS
1	e	288	HIS
1	e	320	ASN
1	e	343	HIS
1	e	435	ASN
1	e	516	ASN
1	e	520	GLN
1	e	580	GLN
2	f	17	HIS
2	f	40	GLN
2	f	81	GLN
2	f	92	ASN

5.3.3 RNA ⓘ

There are no RNA molecules in this entry.

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

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

5.5 Carbohydrates ⓘ

There are no oligosaccharides in this entry.

5.6 Ligand geometry

16 ligands are modelled in this entry.

In the following table, the Counts columns list the number of bonds (or angles) for which Mogul statistics could be retrieved, the number of bonds (or angles) that are observed in the model and the number of bonds (or angles) that are defined in the Chemical Component Dictionary. The Link column lists molecule types, if any, to which the group is linked. 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 $|Z| > 2$ is considered an outlier worth inspection. RMSZ is the root-mean-square of all Z scores of the bond lengths (or angles).

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
3	ADP	C	2000	-	28,29,29	1.33	3 (10%)	43,45,45	1.89	10 (23%)
3	ADP	G	2000	-	28,29,29	1.33	3 (10%)	43,45,45	1.89	10 (23%)
3	ADP	S	2000	-	28,29,29	1.32	3 (10%)	43,45,45	1.91	10 (23%)
3	ADP	K	2000	-	28,29,29	1.33	3 (10%)	43,45,45	1.89	10 (23%)
3	ADP	O	2000	-	28,29,29	1.33	3 (10%)	43,45,45	1.89	10 (23%)
3	ADP	c	2000	-	28,29,29	1.32	3 (10%)	43,45,45	1.90	10 (23%)
3	ADP	A	2000	-	28,29,29	1.32	3 (10%)	43,45,45	1.90	10 (23%)
3	ADP	a	2000	-	28,29,29	1.32	3 (10%)	43,45,45	1.91	10 (23%)
3	ADP	e	2000	-	28,29,29	1.32	3 (10%)	43,45,45	1.91	10 (23%)
3	ADP	E	2000	-	28,29,29	1.32	3 (10%)	43,45,45	1.89	10 (23%)
3	ADP	Q	2000	-	28,29,29	1.32	3 (10%)	43,45,45	1.89	10 (23%)
3	ADP	W	2000	-	28,29,29	1.32	3 (10%)	43,45,45	1.91	10 (23%)
3	ADP	Y	2000	-	28,29,29	1.32	3 (10%)	43,45,45	1.90	10 (23%)
3	ADP	I	2000	-	28,29,29	1.32	3 (10%)	43,45,45	1.89	10 (23%)
3	ADP	U	2000	-	28,29,29	1.32	3 (10%)	43,45,45	1.90	10 (23%)
3	ADP	M	2000	-	28,29,29	1.32	3 (10%)	43,45,45	1.89	10 (23%)

In the following table, the Chirals column lists the number of chiral outliers, the number of chiral centers analysed, the number of these observed in the model and the number defined in the Chemical Component Dictionary. Similar counts are reported in the Torsion and Rings columns. '-' means no outliers of that kind were identified.

Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
3	ADP	C	2000	-	-	3/16/32/32	0/3/3/3
3	ADP	G	2000	-	-	3/16/32/32	0/3/3/3
3	ADP	S	2000	-	-	2/16/32/32	0/3/3/3
3	ADP	K	2000	-	-	3/16/32/32	0/3/3/3

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
3	ADP	O	2000	-	-	3/16/32/32	0/3/3/3
3	ADP	c	2000	-	-	2/16/32/32	0/3/3/3
3	ADP	A	2000	-	-	2/16/32/32	0/3/3/3
3	ADP	a	2000	-	-	2/16/32/32	0/3/3/3
3	ADP	e	2000	-	-	2/16/32/32	0/3/3/3
3	ADP	E	2000	-	-	3/16/32/32	0/3/3/3
3	ADP	Q	2000	-	-	3/16/32/32	0/3/3/3
3	ADP	W	2000	-	-	2/16/32/32	0/3/3/3
3	ADP	Y	2000	-	-	2/16/32/32	0/3/3/3
3	ADP	I	2000	-	-	3/16/32/32	0/3/3/3
3	ADP	U	2000	-	-	2/16/32/32	0/3/3/3
3	ADP	M	2000	-	-	3/16/32/32	0/3/3/3

All (48) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	C	2000	ADP	C5-C4	4.55	1.47	1.39
3	G	2000	ADP	C5-C4	4.55	1.47	1.39
3	K	2000	ADP	C5-C4	4.55	1.47	1.39
3	O	2000	ADP	C5-C4	4.55	1.47	1.39
3	S	2000	ADP	C5-C4	4.55	1.47	1.39
3	W	2000	ADP	C5-C4	4.55	1.47	1.39
3	a	2000	ADP	C5-C4	4.55	1.47	1.39
3	e	2000	ADP	C5-C4	4.55	1.47	1.39
3	A	2000	ADP	C5-C4	4.54	1.47	1.39
3	E	2000	ADP	C5-C4	4.54	1.47	1.39
3	I	2000	ADP	C5-C4	4.54	1.47	1.39
3	M	2000	ADP	C5-C4	4.54	1.47	1.39
3	Q	2000	ADP	C5-C4	4.54	1.47	1.39
3	U	2000	ADP	C5-C4	4.54	1.47	1.39
3	Y	2000	ADP	C5-C4	4.54	1.47	1.39
3	c	2000	ADP	C5-C4	4.54	1.47	1.39
3	C	2000	ADP	C5-N7	-2.56	1.34	1.39
3	G	2000	ADP	C5-N7	-2.56	1.34	1.39
3	K	2000	ADP	C5-N7	-2.56	1.34	1.39
3	O	2000	ADP	C5-N7	-2.56	1.34	1.39
3	S	2000	ADP	C5-N7	-2.56	1.34	1.39
3	W	2000	ADP	C5-N7	-2.56	1.34	1.39
3	a	2000	ADP	C5-N7	-2.56	1.34	1.39
3	e	2000	ADP	C5-N7	-2.56	1.34	1.39

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	A	2000	ADP	C5-N7	-2.54	1.34	1.39
3	E	2000	ADP	C5-N7	-2.54	1.34	1.39
3	I	2000	ADP	C5-N7	-2.54	1.34	1.39
3	M	2000	ADP	C5-N7	-2.54	1.34	1.39
3	Q	2000	ADP	C5-N7	-2.54	1.34	1.39
3	U	2000	ADP	C5-N7	-2.54	1.34	1.39
3	Y	2000	ADP	C5-N7	-2.54	1.34	1.39
3	c	2000	ADP	C5-N7	-2.54	1.34	1.39
3	C	2000	ADP	C5-C6	2.39	1.47	1.41
3	G	2000	ADP	C5-C6	2.39	1.47	1.41
3	K	2000	ADP	C5-C6	2.39	1.47	1.41
3	O	2000	ADP	C5-C6	2.39	1.47	1.41
3	S	2000	ADP	C5-C6	2.39	1.47	1.41
3	W	2000	ADP	C5-C6	2.39	1.47	1.41
3	a	2000	ADP	C5-C6	2.39	1.47	1.41
3	e	2000	ADP	C5-C6	2.39	1.47	1.41
3	A	2000	ADP	C5-C6	2.39	1.47	1.41
3	E	2000	ADP	C5-C6	2.39	1.47	1.41
3	I	2000	ADP	C5-C6	2.39	1.47	1.41
3	M	2000	ADP	C5-C6	2.39	1.47	1.41
3	Q	2000	ADP	C5-C6	2.39	1.47	1.41
3	U	2000	ADP	C5-C6	2.39	1.47	1.41
3	Y	2000	ADP	C5-C6	2.39	1.47	1.41
3	c	2000	ADP	C5-C6	2.39	1.47	1.41

All (160) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	A	2000	ADP	C5-C4-N3	-6.12	118.28	126.72
3	E	2000	ADP	C5-C4-N3	-6.12	118.28	126.72
3	I	2000	ADP	C5-C4-N3	-6.12	118.28	126.72
3	M	2000	ADP	C5-C4-N3	-6.12	118.28	126.72
3	Q	2000	ADP	C5-C4-N3	-6.12	118.28	126.72
3	U	2000	ADP	C5-C4-N3	-6.12	118.28	126.72
3	Y	2000	ADP	C5-C4-N3	-6.12	118.28	126.72
3	c	2000	ADP	C5-C4-N3	-6.12	118.28	126.72
3	C	2000	ADP	C5-C4-N3	-6.12	118.29	126.72
3	G	2000	ADP	C5-C4-N3	-6.12	118.29	126.72
3	K	2000	ADP	C5-C4-N3	-6.12	118.29	126.72
3	O	2000	ADP	C5-C4-N3	-6.12	118.29	126.72
3	S	2000	ADP	C5-C4-N3	-6.12	118.29	126.72
3	W	2000	ADP	C5-C4-N3	-6.12	118.29	126.72

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	a	2000	ADP	C5-C4-N3	-6.12	118.29	126.72
3	e	2000	ADP	C5-C4-N3	-6.12	118.29	126.72
3	C	2000	ADP	N3-C4-N9	5.22	136.05	127.17
3	G	2000	ADP	N3-C4-N9	5.22	136.05	127.17
3	K	2000	ADP	N3-C4-N9	5.22	136.05	127.17
3	O	2000	ADP	N3-C4-N9	5.22	136.05	127.17
3	S	2000	ADP	N3-C4-N9	5.22	136.05	127.17
3	W	2000	ADP	N3-C4-N9	5.22	136.05	127.17
3	a	2000	ADP	N3-C4-N9	5.22	136.05	127.17
3	e	2000	ADP	N3-C4-N9	5.22	136.05	127.17
3	A	2000	ADP	N3-C4-N9	5.21	136.03	127.17
3	E	2000	ADP	N3-C4-N9	5.21	136.03	127.17
3	I	2000	ADP	N3-C4-N9	5.21	136.03	127.17
3	M	2000	ADP	N3-C4-N9	5.21	136.03	127.17
3	Q	2000	ADP	N3-C4-N9	5.21	136.03	127.17
3	U	2000	ADP	N3-C4-N9	5.21	136.03	127.17
3	Y	2000	ADP	N3-C4-N9	5.21	136.03	127.17
3	c	2000	ADP	N3-C4-N9	5.21	136.03	127.17
3	A	2000	ADP	C2-N3-C4	3.47	120.31	111.83
3	C	2000	ADP	C2-N3-C4	3.47	120.31	111.83
3	E	2000	ADP	C2-N3-C4	3.47	120.31	111.83
3	G	2000	ADP	C2-N3-C4	3.47	120.31	111.83
3	I	2000	ADP	C2-N3-C4	3.47	120.31	111.83
3	K	2000	ADP	C2-N3-C4	3.47	120.31	111.83
3	M	2000	ADP	C2-N3-C4	3.47	120.31	111.83
3	O	2000	ADP	C2-N3-C4	3.47	120.31	111.83
3	Q	2000	ADP	C2-N3-C4	3.47	120.31	111.83
3	S	2000	ADP	C2-N3-C4	3.47	120.31	111.83
3	U	2000	ADP	C2-N3-C4	3.47	120.31	111.83
3	W	2000	ADP	C2-N3-C4	3.47	120.31	111.83
3	Y	2000	ADP	C2-N3-C4	3.47	120.31	111.83
3	a	2000	ADP	C2-N3-C4	3.47	120.31	111.83
3	c	2000	ADP	C2-N3-C4	3.47	120.31	111.83
3	e	2000	ADP	C2-N3-C4	3.47	120.31	111.83
3	C	2000	ADP	C3'-C2'-C1'	2.98	107.11	101.46
3	G	2000	ADP	C3'-C2'-C1'	2.98	107.11	101.46
3	K	2000	ADP	C3'-C2'-C1'	2.98	107.11	101.46
3	O	2000	ADP	C3'-C2'-C1'	2.98	107.11	101.46
3	S	2000	ADP	C3'-C2'-C1'	2.98	107.11	101.46
3	W	2000	ADP	C3'-C2'-C1'	2.98	107.11	101.46
3	a	2000	ADP	C3'-C2'-C1'	2.98	107.11	101.46
3	e	2000	ADP	C3'-C2'-C1'	2.98	107.11	101.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	A	2000	ADP	C3'-C2'-C1'	2.97	107.09	101.46
3	E	2000	ADP	C3'-C2'-C1'	2.97	107.09	101.46
3	I	2000	ADP	C3'-C2'-C1'	2.97	107.09	101.46
3	M	2000	ADP	C3'-C2'-C1'	2.97	107.09	101.46
3	Q	2000	ADP	C3'-C2'-C1'	2.97	107.09	101.46
3	U	2000	ADP	C3'-C2'-C1'	2.97	107.09	101.46
3	Y	2000	ADP	C3'-C2'-C1'	2.97	107.09	101.46
3	c	2000	ADP	C3'-C2'-C1'	2.97	107.09	101.46
3	A	2000	ADP	C4-C5-N7	-2.76	107.42	110.58
3	E	2000	ADP	C4-C5-N7	-2.76	107.42	110.58
3	I	2000	ADP	C4-C5-N7	-2.76	107.42	110.58
3	M	2000	ADP	C4-C5-N7	-2.76	107.42	110.58
3	Q	2000	ADP	C4-C5-N7	-2.76	107.42	110.58
3	U	2000	ADP	C4-C5-N7	-2.76	107.42	110.58
3	Y	2000	ADP	C4-C5-N7	-2.76	107.42	110.58
3	c	2000	ADP	C4-C5-N7	-2.76	107.42	110.58
3	C	2000	ADP	C4-C5-N7	-2.76	107.42	110.58
3	G	2000	ADP	C4-C5-N7	-2.76	107.42	110.58
3	K	2000	ADP	C4-C5-N7	-2.76	107.42	110.58
3	O	2000	ADP	C4-C5-N7	-2.76	107.42	110.58
3	S	2000	ADP	C4-C5-N7	-2.76	107.42	110.58
3	W	2000	ADP	C4-C5-N7	-2.76	107.42	110.58
3	a	2000	ADP	C4-C5-N7	-2.76	107.42	110.58
3	e	2000	ADP	C4-C5-N7	-2.76	107.42	110.58
3	C	2000	ADP	N3-C2-N1	-2.72	124.46	128.58
3	G	2000	ADP	N3-C2-N1	-2.72	124.46	128.58
3	K	2000	ADP	N3-C2-N1	-2.72	124.46	128.58
3	O	2000	ADP	N3-C2-N1	-2.72	124.46	128.58
3	S	2000	ADP	N3-C2-N1	-2.72	124.46	128.58
3	W	2000	ADP	N3-C2-N1	-2.72	124.46	128.58
3	a	2000	ADP	N3-C2-N1	-2.72	124.46	128.58
3	e	2000	ADP	N3-C2-N1	-2.72	124.46	128.58
3	A	2000	ADP	N3-C2-N1	-2.72	124.47	128.58
3	E	2000	ADP	N3-C2-N1	-2.72	124.47	128.58
3	I	2000	ADP	N3-C2-N1	-2.72	124.47	128.58
3	M	2000	ADP	N3-C2-N1	-2.72	124.47	128.58
3	Q	2000	ADP	N3-C2-N1	-2.72	124.47	128.58
3	U	2000	ADP	N3-C2-N1	-2.72	124.47	128.58
3	Y	2000	ADP	N3-C2-N1	-2.72	124.47	128.58
3	c	2000	ADP	N3-C2-N1	-2.72	124.47	128.58
3	E	2000	ADP	O3A-PB-O1B	-2.44	98.20	111.04
3	I	2000	ADP	O3A-PB-O1B	-2.44	98.20	111.04

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	M	2000	ADP	O3A-PB-O1B	-2.44	98.20	111.04
3	Q	2000	ADP	O3A-PB-O1B	-2.44	98.20	111.04
3	C	2000	ADP	O3A-PB-O1B	-2.44	98.20	111.04
3	G	2000	ADP	O3A-PB-O1B	-2.44	98.20	111.04
3	K	2000	ADP	O3A-PB-O1B	-2.44	98.20	111.04
3	O	2000	ADP	O3A-PB-O1B	-2.44	98.20	111.04
3	C	2000	ADP	C4-N9-C8	2.40	108.26	105.74
3	G	2000	ADP	C4-N9-C8	2.40	108.26	105.74
3	K	2000	ADP	C4-N9-C8	2.40	108.26	105.74
3	O	2000	ADP	C4-N9-C8	2.40	108.26	105.74
3	S	2000	ADP	C4-N9-C8	2.40	108.26	105.74
3	W	2000	ADP	C4-N9-C8	2.40	108.26	105.74
3	a	2000	ADP	C4-N9-C8	2.40	108.26	105.74
3	e	2000	ADP	C4-N9-C8	2.40	108.26	105.74
3	A	2000	ADP	C4-N9-C8	2.40	108.26	105.74
3	E	2000	ADP	C4-N9-C8	2.40	108.26	105.74
3	I	2000	ADP	C4-N9-C8	2.40	108.26	105.74
3	M	2000	ADP	C4-N9-C8	2.40	108.26	105.74
3	Q	2000	ADP	C4-N9-C8	2.40	108.26	105.74
3	U	2000	ADP	C4-N9-C8	2.40	108.26	105.74
3	Y	2000	ADP	C4-N9-C8	2.40	108.26	105.74
3	c	2000	ADP	C4-N9-C8	2.40	108.26	105.74
3	C	2000	ADP	C5-N7-C8	2.16	106.84	103.45
3	G	2000	ADP	C5-N7-C8	2.16	106.84	103.45
3	K	2000	ADP	C5-N7-C8	2.16	106.84	103.45
3	O	2000	ADP	C5-N7-C8	2.16	106.84	103.45
3	S	2000	ADP	C5-N7-C8	2.16	106.84	103.45
3	W	2000	ADP	C5-N7-C8	2.16	106.84	103.45
3	a	2000	ADP	C5-N7-C8	2.16	106.84	103.45
3	e	2000	ADP	C5-N7-C8	2.16	106.84	103.45
3	A	2000	ADP	C5-N7-C8	2.14	106.82	103.45
3	E	2000	ADP	C5-N7-C8	2.14	106.82	103.45
3	I	2000	ADP	C5-N7-C8	2.14	106.82	103.45
3	M	2000	ADP	C5-N7-C8	2.14	106.82	103.45
3	Q	2000	ADP	C5-N7-C8	2.14	106.82	103.45
3	U	2000	ADP	C5-N7-C8	2.14	106.82	103.45
3	Y	2000	ADP	C5-N7-C8	2.14	106.82	103.45
3	c	2000	ADP	C5-N7-C8	2.14	106.82	103.45
3	A	2000	ADP	N6-C6-N1	2.08	123.00	118.38
3	E	2000	ADP	N6-C6-N1	2.08	123.00	118.38
3	I	2000	ADP	N6-C6-N1	2.08	123.00	118.38
3	M	2000	ADP	N6-C6-N1	2.08	123.00	118.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	Q	2000	ADP	N6-C6-N1	2.08	123.00	118.38
3	U	2000	ADP	N6-C6-N1	2.08	123.00	118.38
3	Y	2000	ADP	N6-C6-N1	2.08	123.00	118.38
3	c	2000	ADP	N6-C6-N1	2.08	123.00	118.38
3	C	2000	ADP	N6-C6-N1	2.07	122.98	118.38
3	G	2000	ADP	N6-C6-N1	2.07	122.98	118.38
3	K	2000	ADP	N6-C6-N1	2.07	122.98	118.38
3	O	2000	ADP	N6-C6-N1	2.07	122.98	118.38
3	S	2000	ADP	N6-C6-N1	2.07	122.98	118.38
3	W	2000	ADP	N6-C6-N1	2.07	122.98	118.38
3	a	2000	ADP	N6-C6-N1	2.07	122.98	118.38
3	e	2000	ADP	N6-C6-N1	2.07	122.98	118.38
3	S	2000	ADP	O3B-PB-O2B	2.04	115.47	107.80
3	W	2000	ADP	O3B-PB-O2B	2.04	115.47	107.80
3	a	2000	ADP	O3B-PB-O2B	2.04	115.47	107.80
3	e	2000	ADP	O3B-PB-O2B	2.04	115.47	107.80
3	A	2000	ADP	O3B-PB-O2B	2.04	115.43	107.80
3	U	2000	ADP	O3B-PB-O2B	2.04	115.43	107.80
3	Y	2000	ADP	O3B-PB-O2B	2.04	115.43	107.80
3	c	2000	ADP	O3B-PB-O2B	2.04	115.43	107.80

There are no chirality outliers.

All (40) torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
3	A	2000	ADP	O4'-C4'-C5'-O5'
3	C	2000	ADP	O4'-C4'-C5'-O5'
3	E	2000	ADP	O4'-C4'-C5'-O5'
3	G	2000	ADP	O4'-C4'-C5'-O5'
3	I	2000	ADP	O4'-C4'-C5'-O5'
3	K	2000	ADP	O4'-C4'-C5'-O5'
3	M	2000	ADP	O4'-C4'-C5'-O5'
3	O	2000	ADP	O4'-C4'-C5'-O5'
3	Q	2000	ADP	O4'-C4'-C5'-O5'
3	S	2000	ADP	O4'-C4'-C5'-O5'
3	U	2000	ADP	O4'-C4'-C5'-O5'
3	W	2000	ADP	O4'-C4'-C5'-O5'
3	Y	2000	ADP	O4'-C4'-C5'-O5'
3	a	2000	ADP	O4'-C4'-C5'-O5'
3	c	2000	ADP	O4'-C4'-C5'-O5'
3	e	2000	ADP	O4'-C4'-C5'-O5'
3	A	2000	ADP	C3'-C4'-C5'-O5'

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Mol	Chain	Res	Type	Atoms
3	C	2000	ADP	C3'-C4'-C5'-O5'
3	E	2000	ADP	C3'-C4'-C5'-O5'
3	G	2000	ADP	C3'-C4'-C5'-O5'
3	I	2000	ADP	C3'-C4'-C5'-O5'
3	K	2000	ADP	C3'-C4'-C5'-O5'
3	M	2000	ADP	C3'-C4'-C5'-O5'
3	O	2000	ADP	C3'-C4'-C5'-O5'
3	Q	2000	ADP	C3'-C4'-C5'-O5'
3	S	2000	ADP	C3'-C4'-C5'-O5'
3	U	2000	ADP	C3'-C4'-C5'-O5'
3	W	2000	ADP	C3'-C4'-C5'-O5'
3	Y	2000	ADP	C3'-C4'-C5'-O5'
3	a	2000	ADP	C3'-C4'-C5'-O5'
3	c	2000	ADP	C3'-C4'-C5'-O5'
3	e	2000	ADP	C3'-C4'-C5'-O5'
3	C	2000	ADP	PA-O3A-PB-O1B
3	E	2000	ADP	PA-O3A-PB-O1B
3	G	2000	ADP	PA-O3A-PB-O1B
3	I	2000	ADP	PA-O3A-PB-O1B
3	K	2000	ADP	PA-O3A-PB-O1B
3	M	2000	ADP	PA-O3A-PB-O1B
3	O	2000	ADP	PA-O3A-PB-O1B
3	Q	2000	ADP	PA-O3A-PB-O1B

There are no ring outliers.

16 monomers are involved in 64 short contacts:

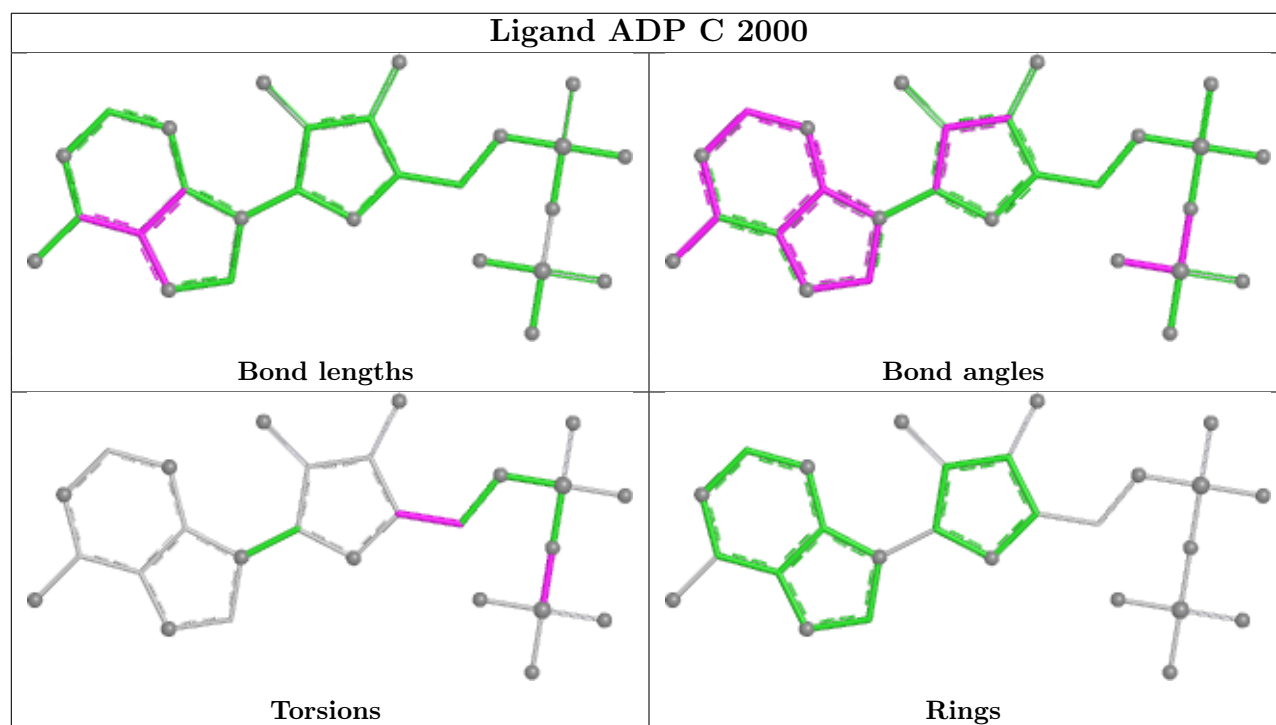
Mol	Chain	Res	Type	Clashes	Symm-Clashes
3	C	2000	ADP	4	0
3	G	2000	ADP	4	0
3	S	2000	ADP	4	0
3	K	2000	ADP	4	0
3	O	2000	ADP	4	0
3	c	2000	ADP	4	0
3	A	2000	ADP	4	0
3	a	2000	ADP	4	0
3	e	2000	ADP	4	0
3	E	2000	ADP	4	0
3	Q	2000	ADP	4	0
3	W	2000	ADP	4	0
3	Y	2000	ADP	4	0
3	I	2000	ADP	4	0

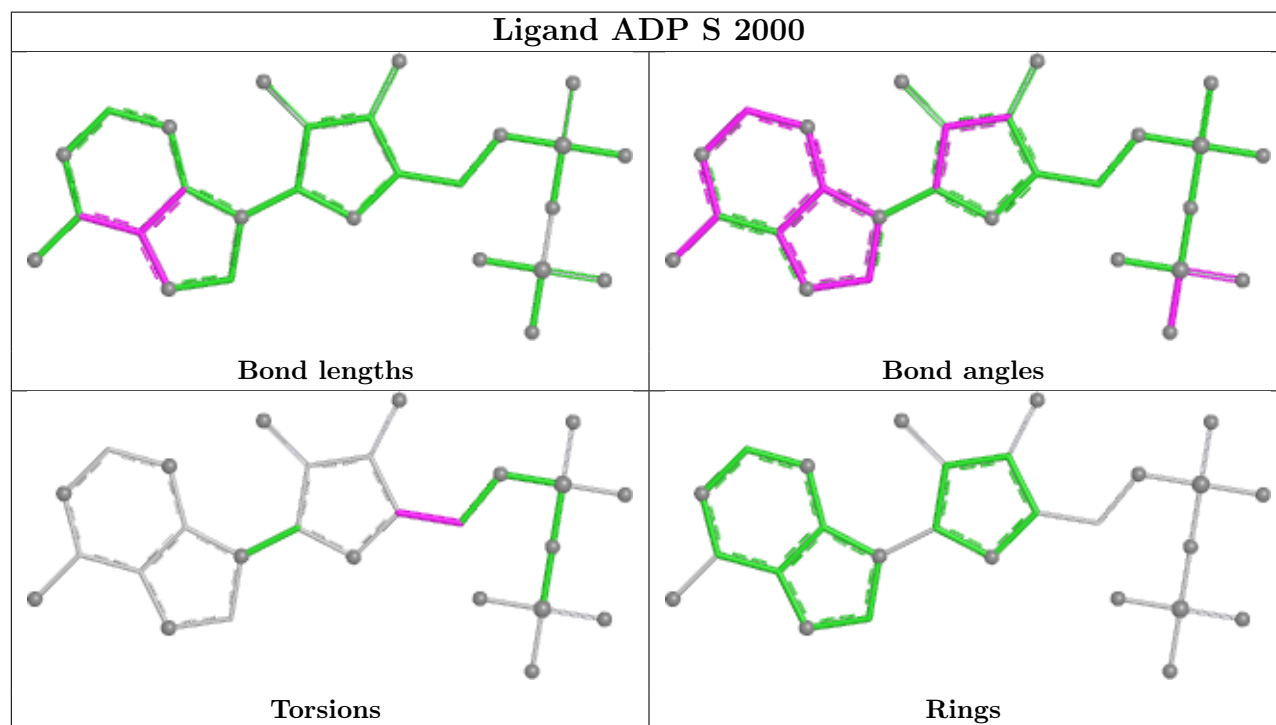
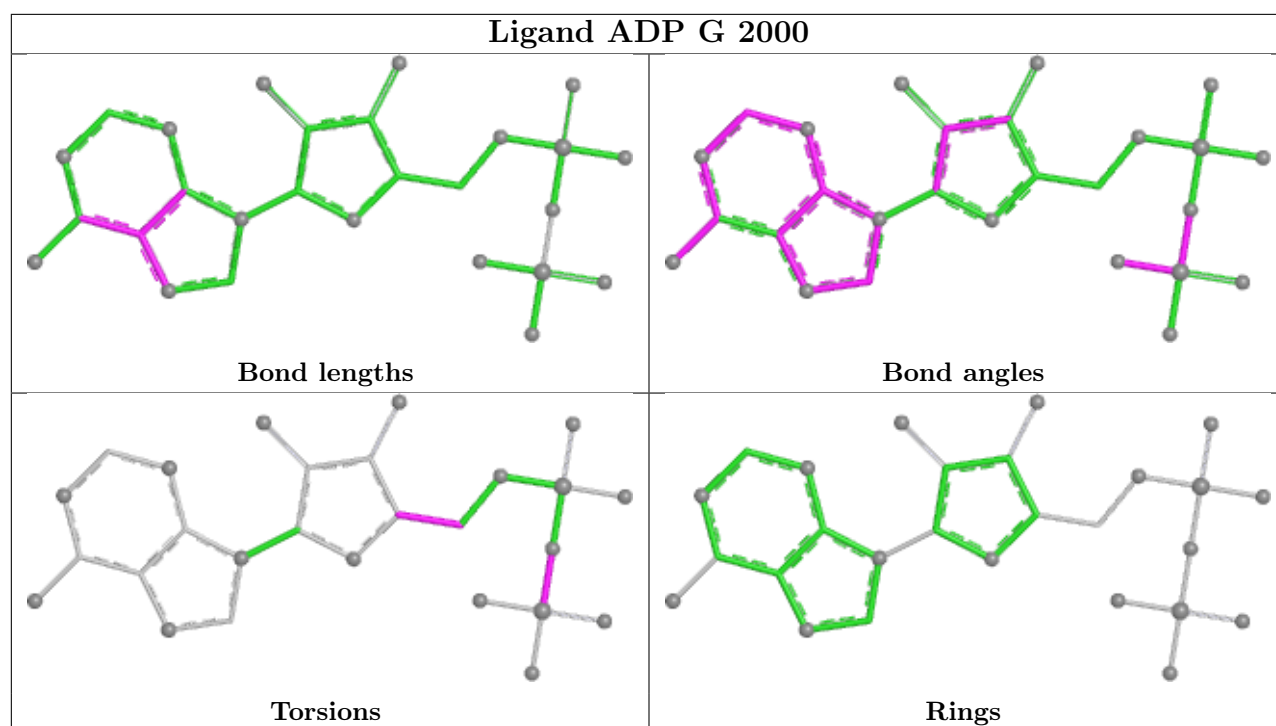
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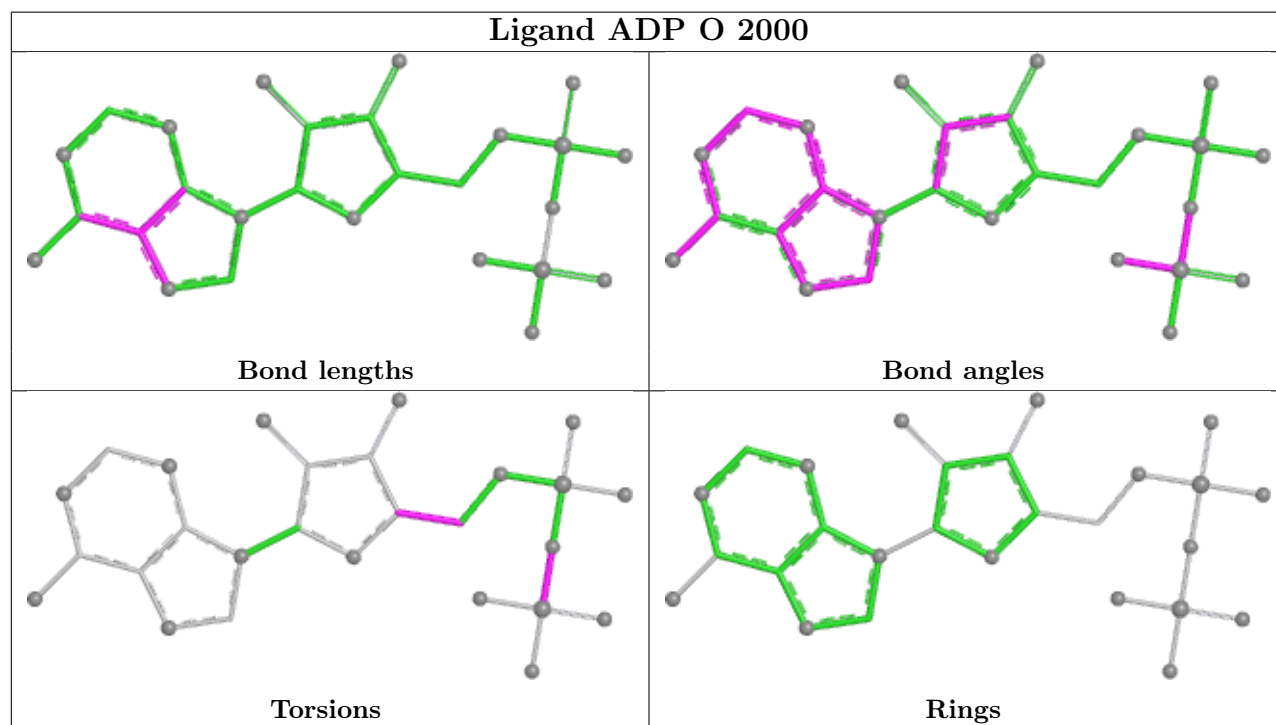
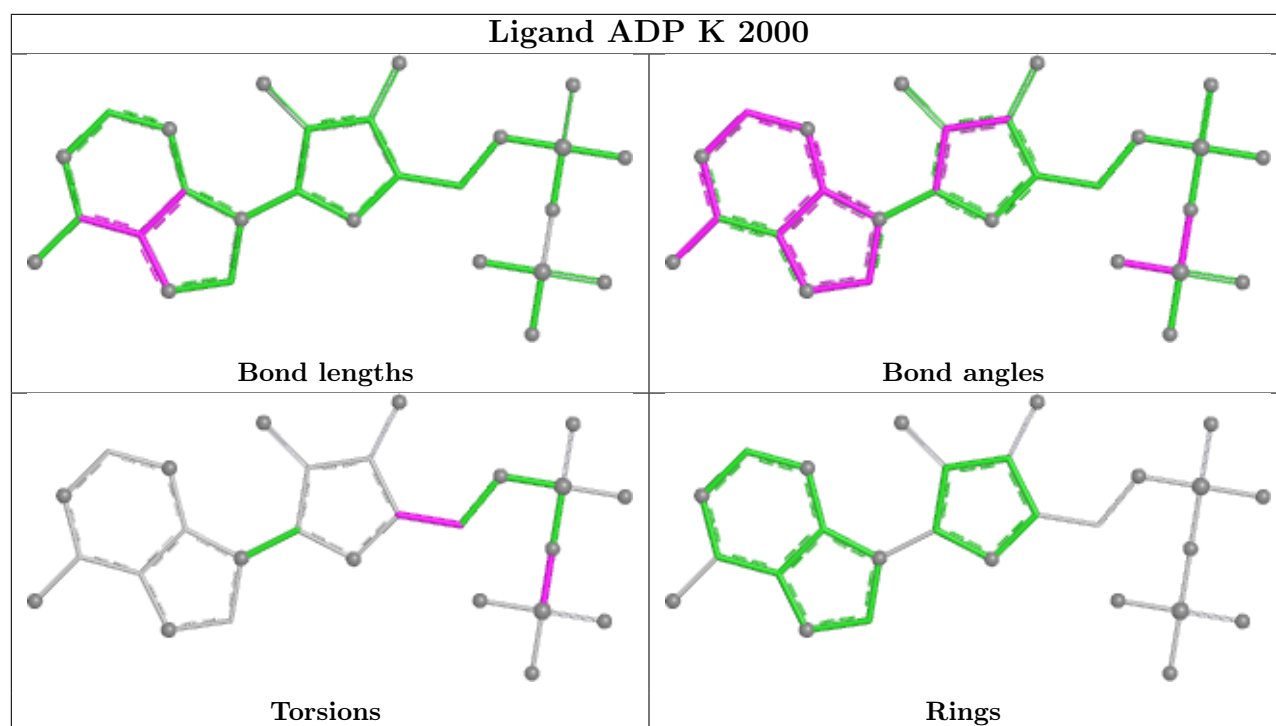
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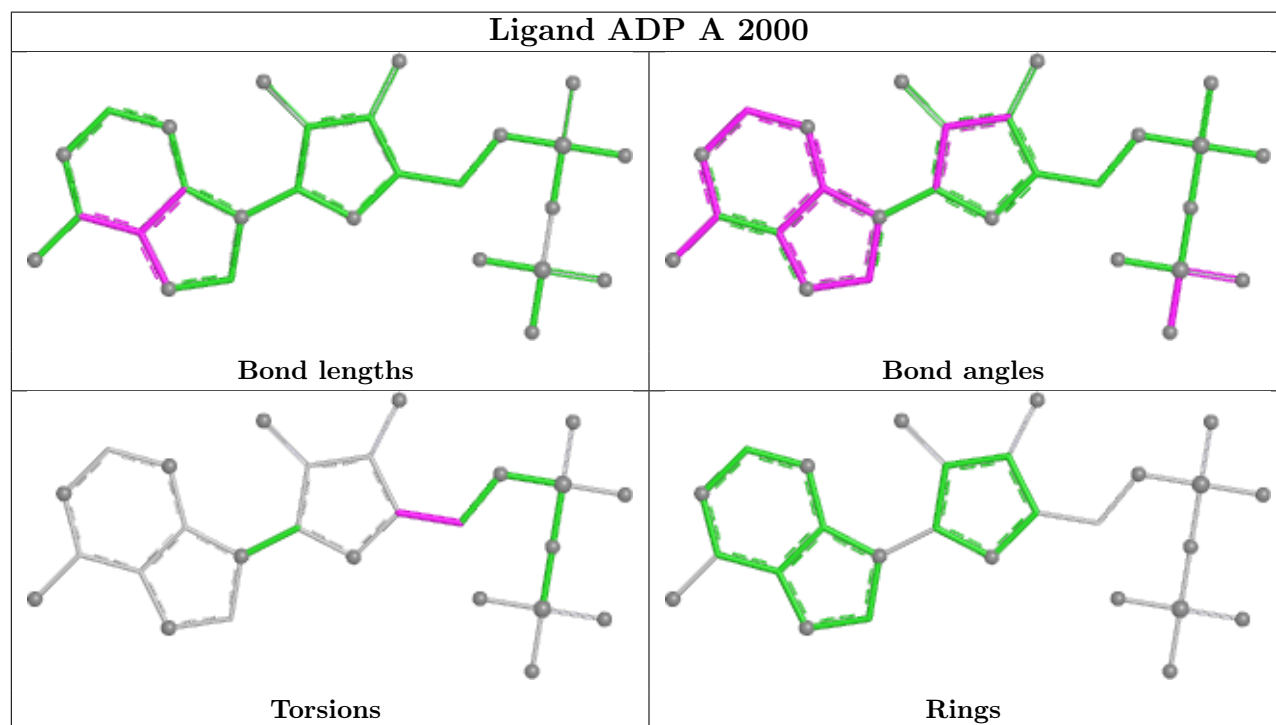
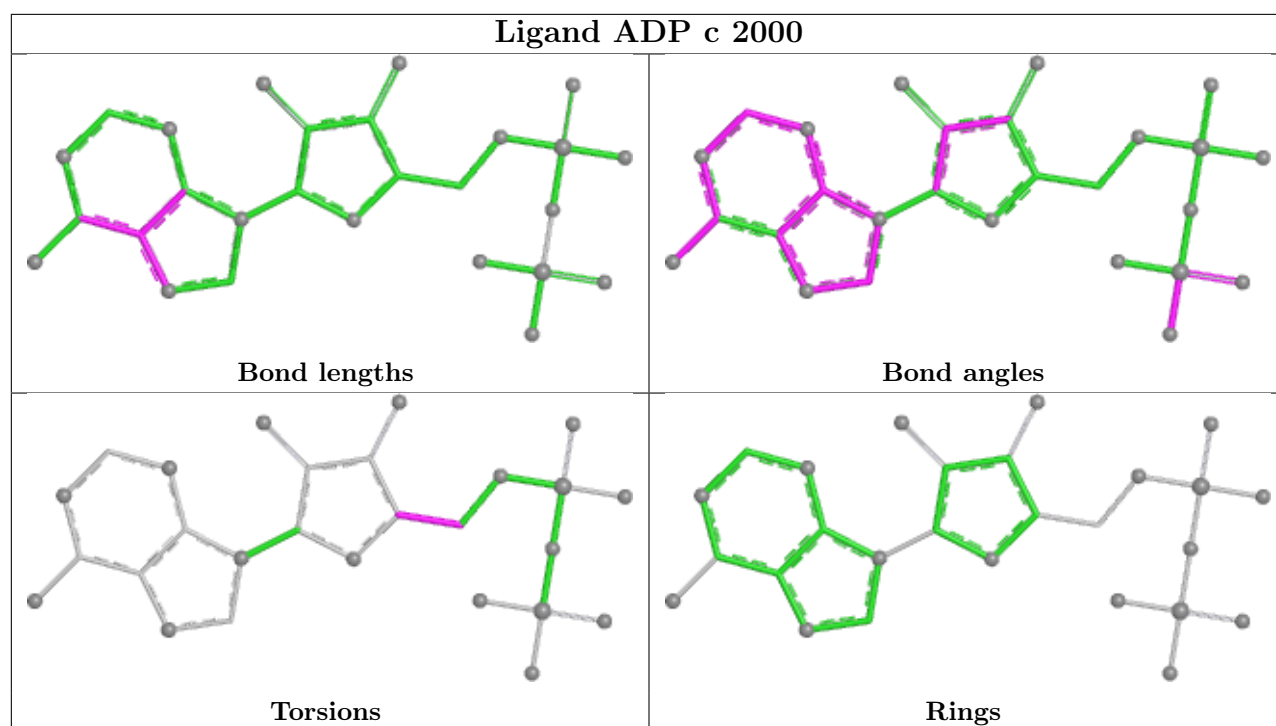
Mol	Chain	Res	Type	Clashes	Symm-Clashes
3	U	2000	ADP	4	0
3	M	2000	ADP	4	0

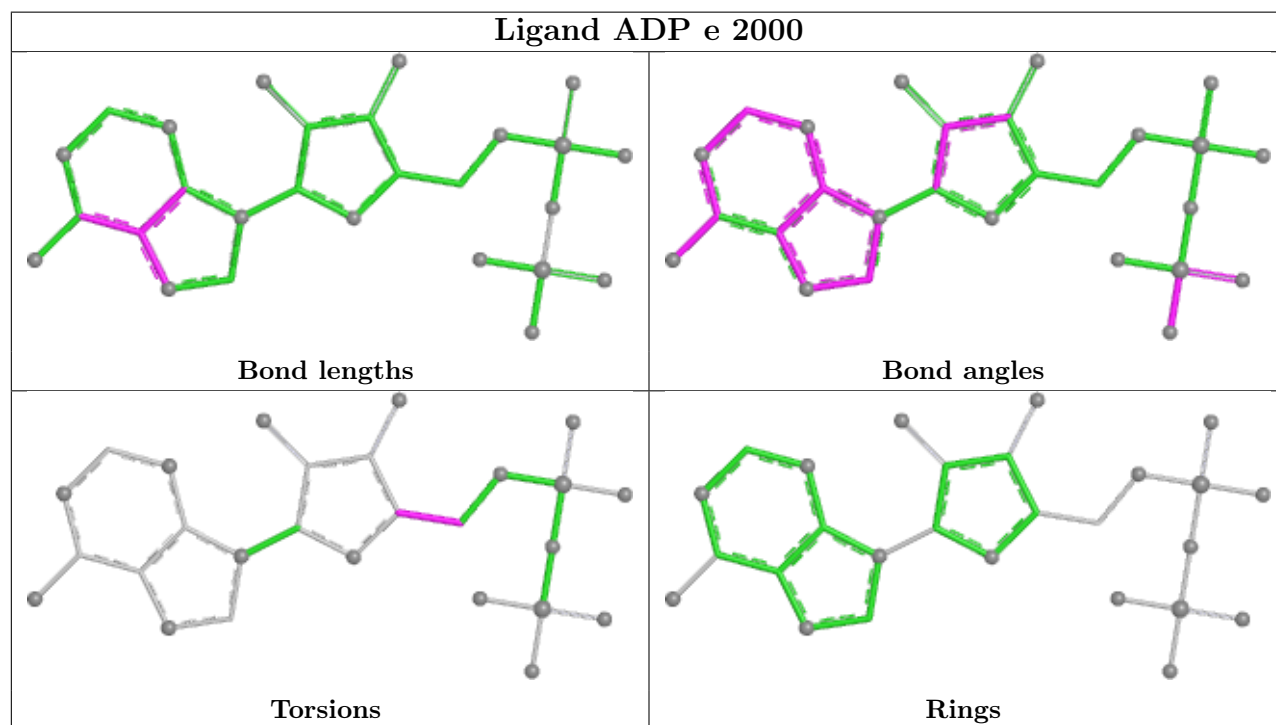
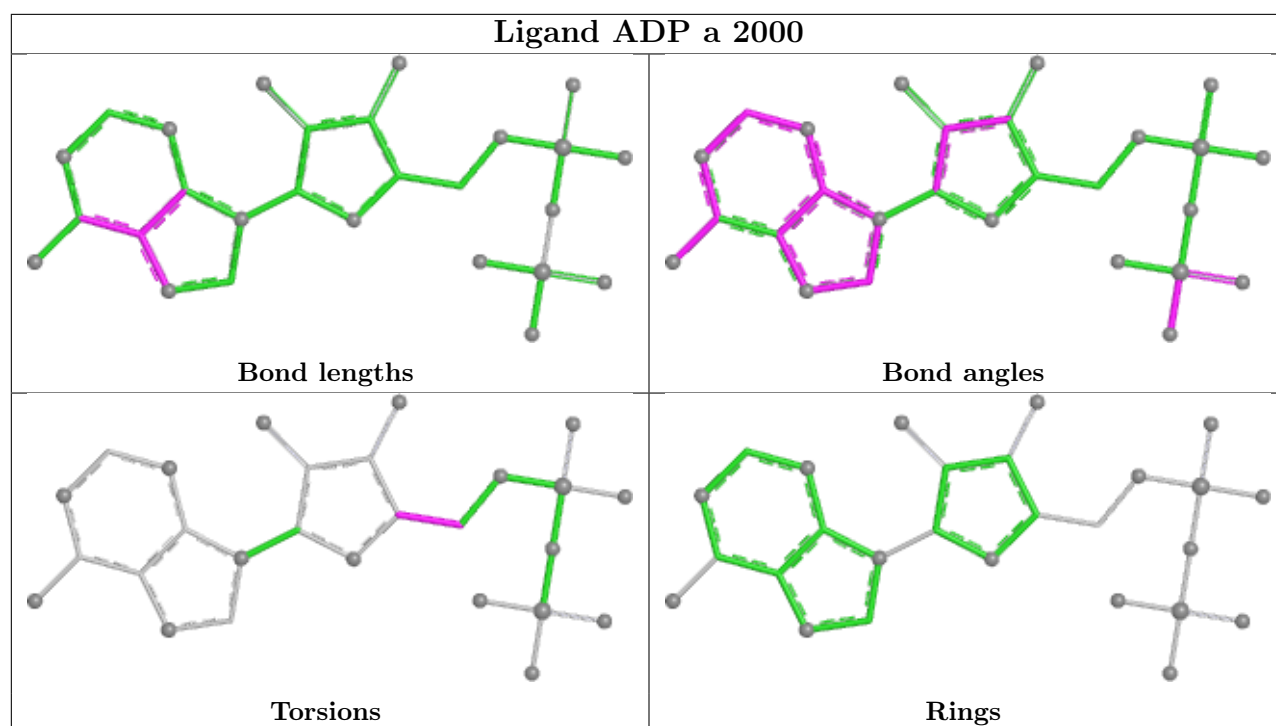
The following is a two-dimensional graphical depiction of Mogul quality analysis of bond lengths, bond angles, torsion angles, and ring geometry for all instances of the Ligand of Interest. In addition, ligands with molecular weight > 250 and outliers as shown on the validation Tables will also be included. For torsion angles, if less than 5% of the Mogul distribution of torsion angles is within 10 degrees of the torsion angle in question, then that torsion angle is considered an outlier. Any bond that is central to one or more torsion angles identified as an outlier by Mogul will be highlighted in the graph. For rings, the root-mean-square deviation (RMSD) between the ring in question and similar rings identified by Mogul is calculated over all ring torsion angles. If the average RMSD is greater than 60 degrees and the minimal RMSD between the ring in question and any Mogul-identified rings is also greater than 60 degrees, then that ring is considered an outlier. The outliers are highlighted in purple. The color gray indicates Mogul did not find sufficient equivalents in the CSD to analyse the geometry.

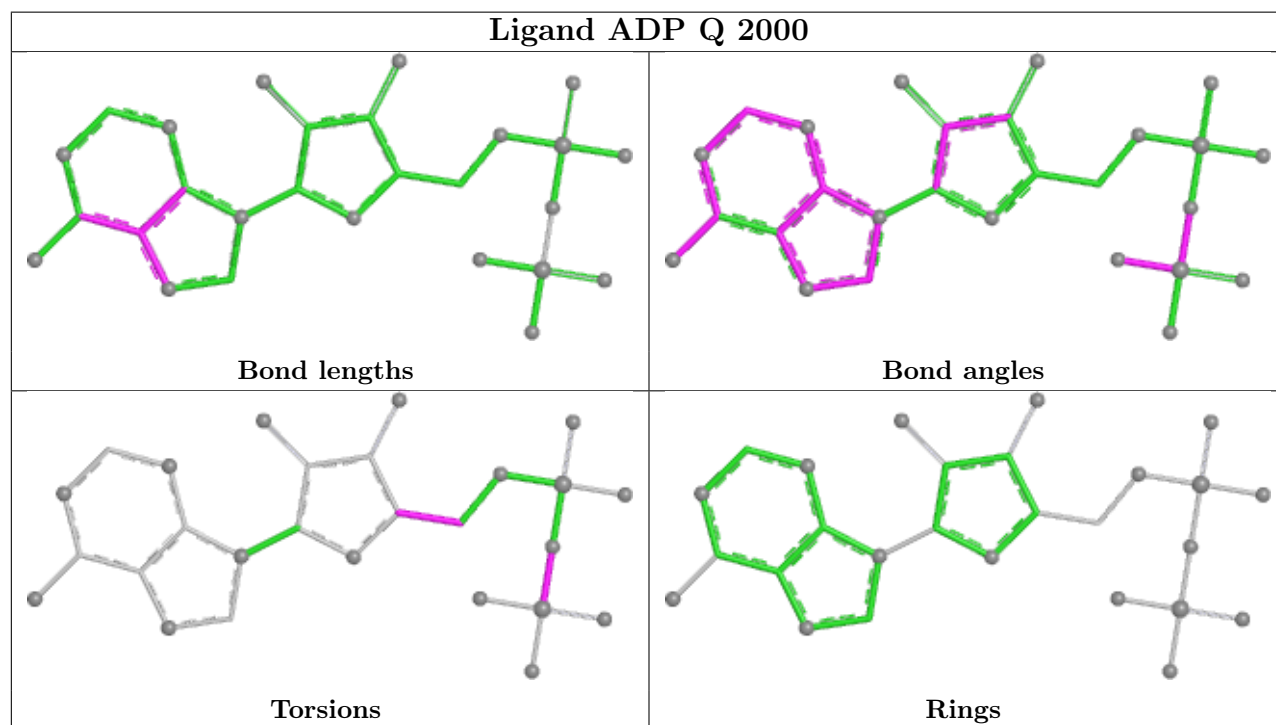
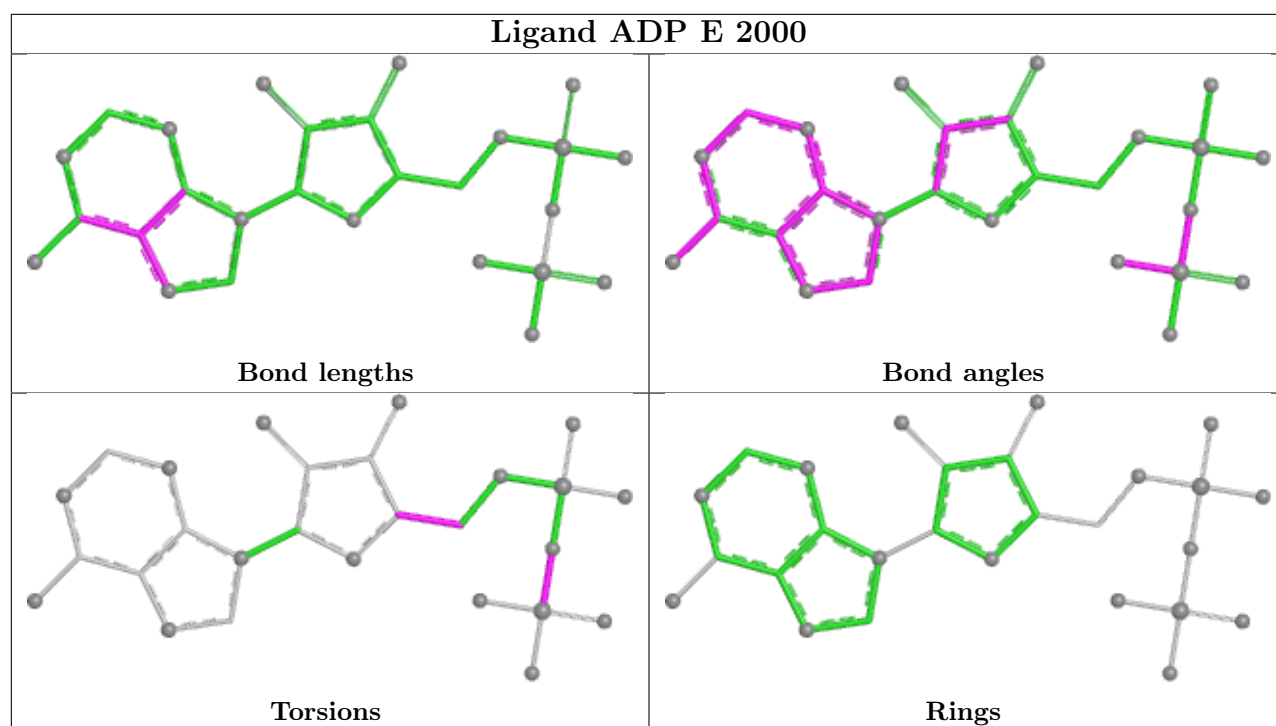


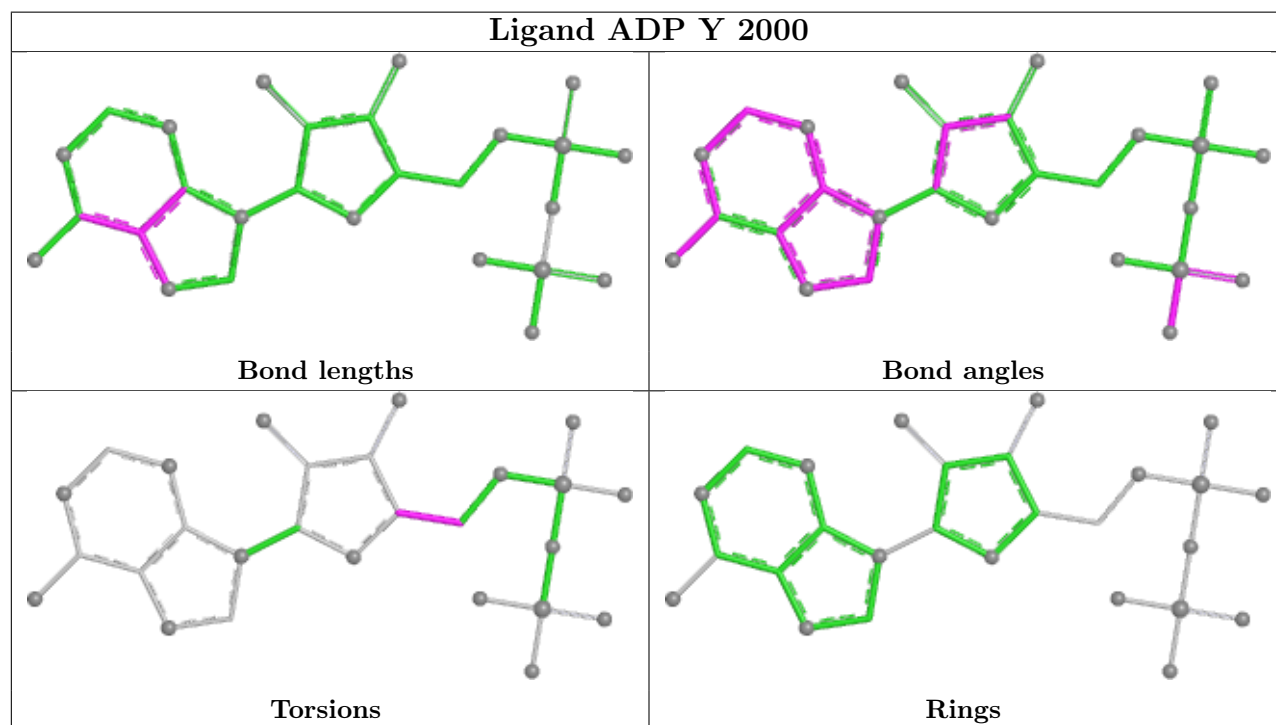
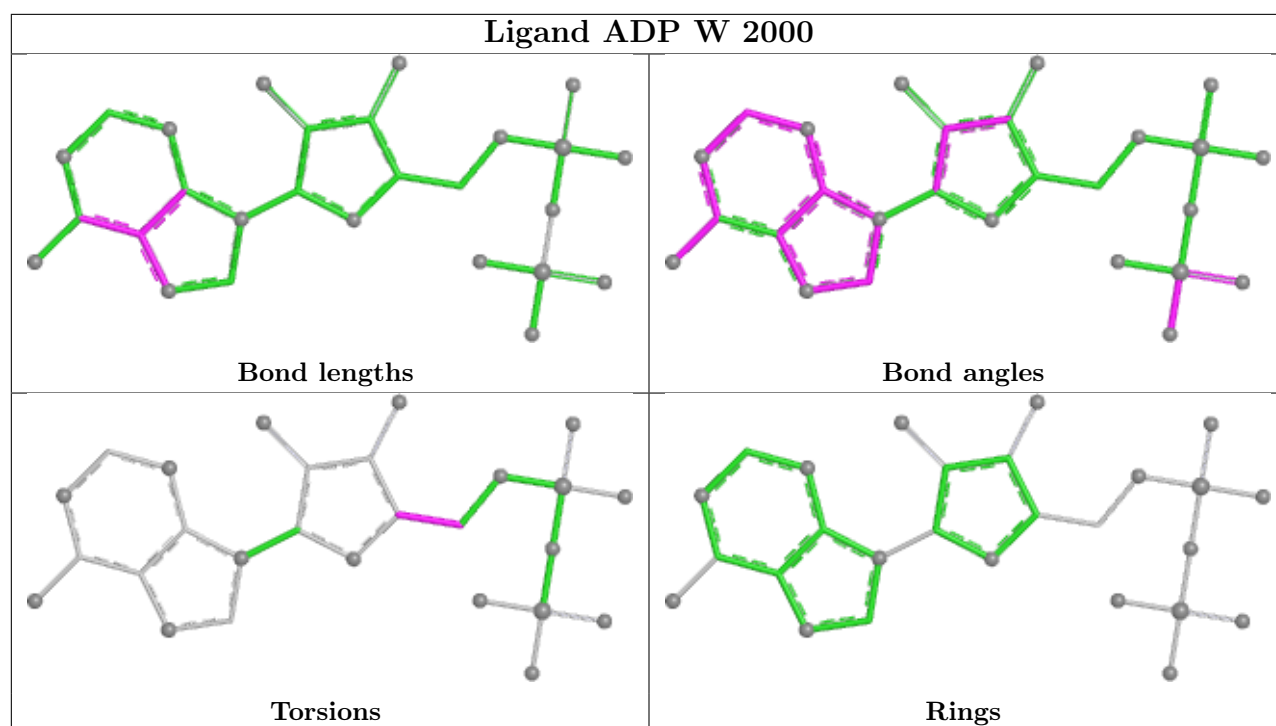


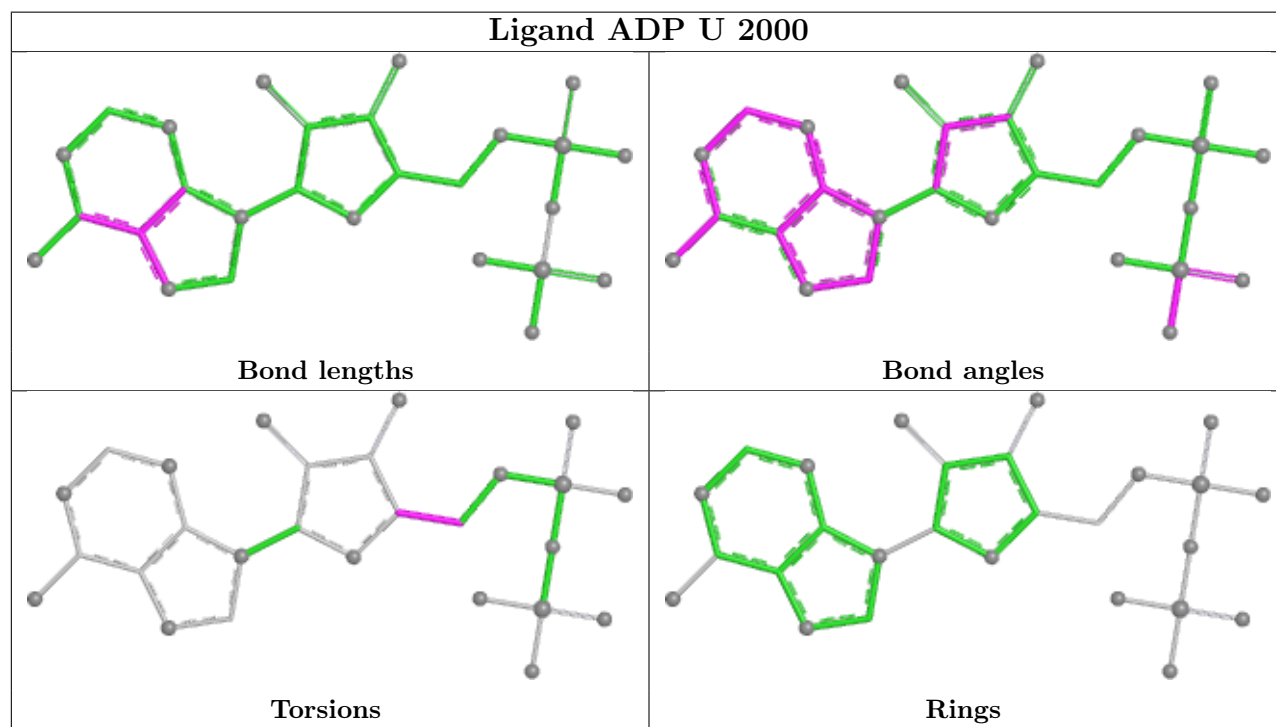
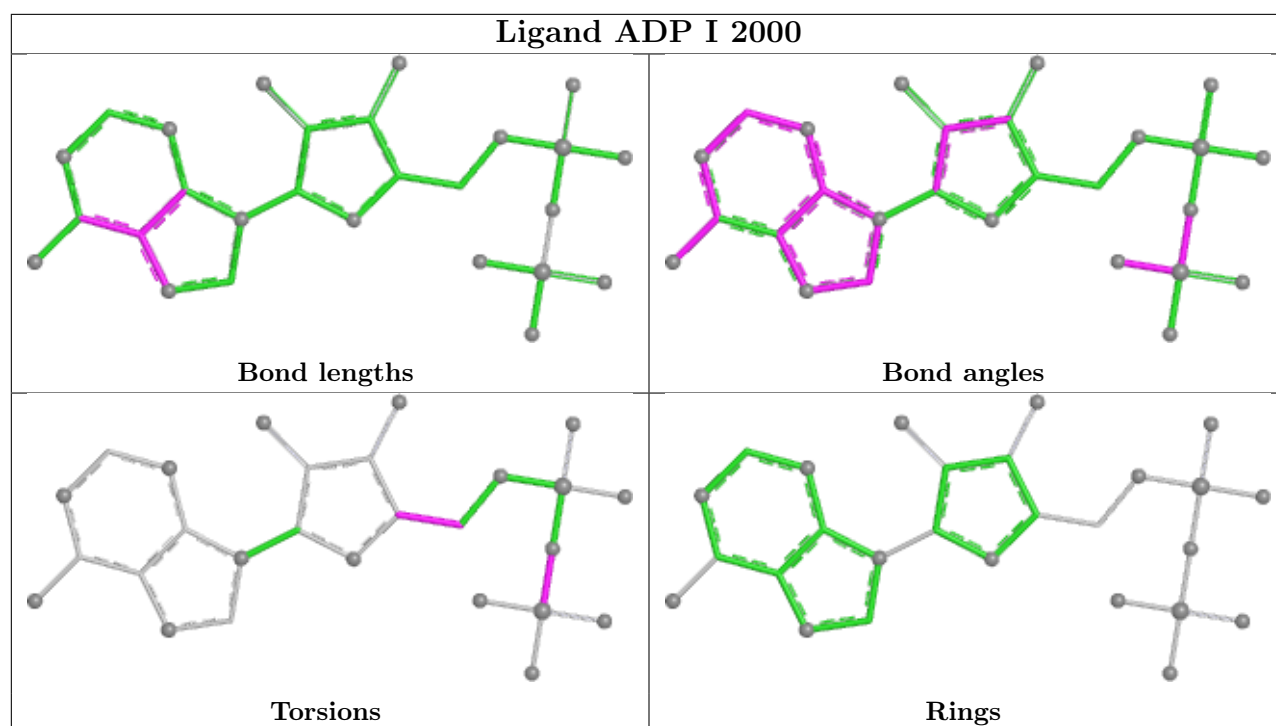


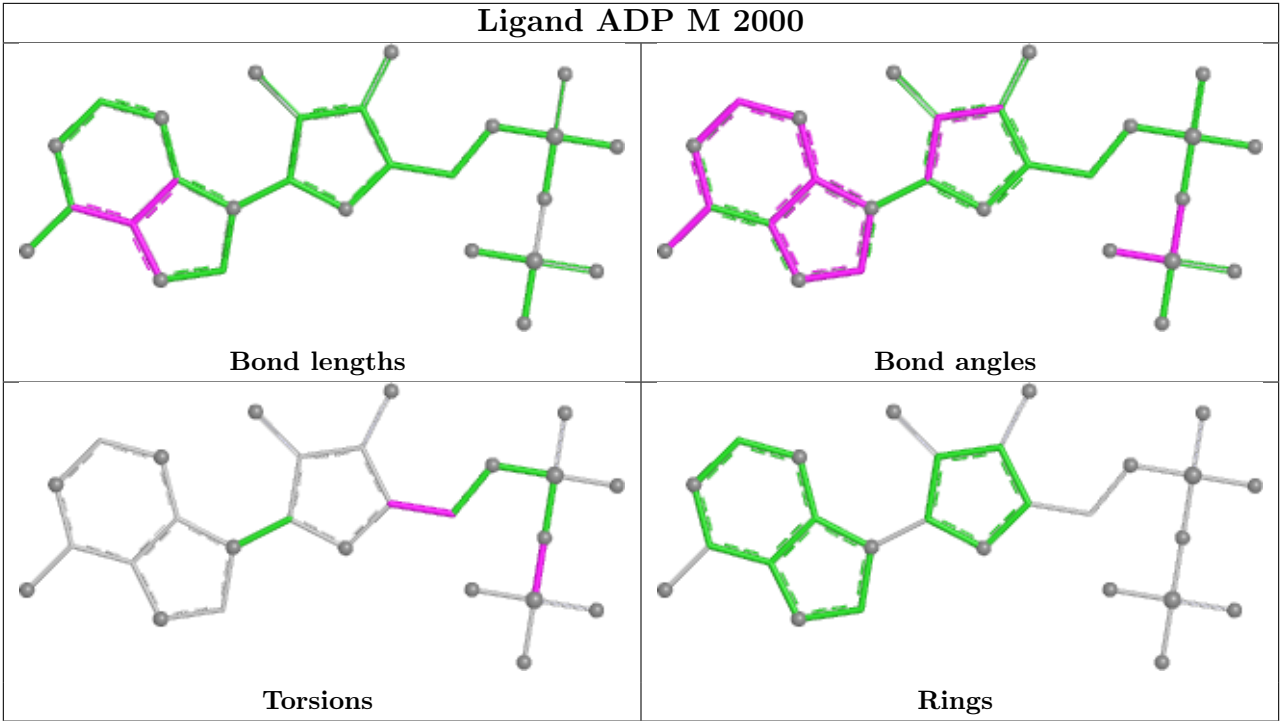












5.7 Other polymers ⓘ

There are no such residues in this entry.

5.8 Polymer linkage issues ⓘ

The following chains have linkage breaks:

Mol	Chain	Number of breaks
1	A	40
1	C	40
1	E	40
1	G	40
1	I	40
1	K	40
1	M	40
1	O	40
1	Q	40
1	S	40
1	U	40
1	W	40
1	Y	40
1	a	40
1	c	40

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Mol	Chain	Number of breaks
1	e	40

All chain breaks are listed below:

Model	Chain	Residue-1	Atom-1	Residue-2	Atom-2	Distance (Å)
1	A	583:ARG	C	607:UNK	N	28.52
1	C	583:ARG	C	607:UNK	N	28.52
1	E	583:ARG	C	607:UNK	N	28.52
1	G	583:ARG	C	607:UNK	N	28.52
1	I	583:ARG	C	607:UNK	N	28.52
1	K	583:ARG	C	607:UNK	N	28.52
1	M	583:ARG	C	607:UNK	N	28.52
1	O	583:ARG	C	607:UNK	N	28.52
1	Q	583:ARG	C	607:UNK	N	28.52
1	S	583:ARG	C	607:UNK	N	28.52
1	U	583:ARG	C	607:UNK	N	28.52
1	W	583:ARG	C	607:UNK	N	28.52
1	Y	583:ARG	C	607:UNK	N	28.52
1	a	583:ARG	C	607:UNK	N	28.52
1	c	583:ARG	C	607:UNK	N	28.52
1	e	583:ARG	C	607:UNK	N	28.52
1	A	1205:UNK	C	1215:UNK	N	21.51
1	C	1205:UNK	C	1215:UNK	N	21.51
1	E	1205:UNK	C	1215:UNK	N	21.51
1	G	1205:UNK	C	1215:UNK	N	21.51
1	I	1205:UNK	C	1215:UNK	N	21.51
1	K	1205:UNK	C	1215:UNK	N	21.51
1	M	1205:UNK	C	1215:UNK	N	21.51
1	O	1205:UNK	C	1215:UNK	N	21.51
1	Q	1205:UNK	C	1215:UNK	N	21.51
1	S	1205:UNK	C	1215:UNK	N	21.51
1	U	1205:UNK	C	1215:UNK	N	21.51
1	W	1205:UNK	C	1215:UNK	N	21.51
1	Y	1205:UNK	C	1215:UNK	N	21.51
1	a	1205:UNK	C	1215:UNK	N	21.51
1	c	1205:UNK	C	1215:UNK	N	21.51
1	e	1205:UNK	C	1215:UNK	N	21.51
1	A	787:UNK	C	803:UNK	N	19.38
1	C	787:UNK	C	803:UNK	N	19.38
1	E	787:UNK	C	803:UNK	N	19.38
1	G	787:UNK	C	803:UNK	N	19.38
1	I	787:UNK	C	803:UNK	N	19.38
1	K	787:UNK	C	803:UNK	N	19.38

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Model	Chain	Residue-1	Atom-1	Residue-2	Atom-2	Distance (Å)
1	M	787:UNK	C	803:UNK	N	19.38
1	O	787:UNK	C	803:UNK	N	19.38
1	Q	787:UNK	C	803:UNK	N	19.38
1	S	787:UNK	C	803:UNK	N	19.38
1	U	787:UNK	C	803:UNK	N	19.38
1	W	787:UNK	C	803:UNK	N	19.38
1	Y	787:UNK	C	803:UNK	N	19.38
1	a	787:UNK	C	803:UNK	N	19.38
1	c	787:UNK	C	803:UNK	N	19.38
1	e	787:UNK	C	803:UNK	N	19.38
1	A	740:UNK	C	746:UNK	N	15.74
1	C	740:UNK	C	746:UNK	N	15.74
1	E	740:UNK	C	746:UNK	N	15.74
1	G	740:UNK	C	746:UNK	N	15.74
1	I	740:UNK	C	746:UNK	N	15.74
1	K	740:UNK	C	746:UNK	N	15.74
1	M	740:UNK	C	746:UNK	N	15.74
1	O	740:UNK	C	746:UNK	N	15.74
1	Q	740:UNK	C	746:UNK	N	15.74
1	S	740:UNK	C	746:UNK	N	15.74
1	U	740:UNK	C	746:UNK	N	15.74
1	W	740:UNK	C	746:UNK	N	15.74
1	Y	740:UNK	C	746:UNK	N	15.74
1	a	740:UNK	C	746:UNK	N	15.74
1	c	740:UNK	C	746:UNK	N	15.74
1	e	740:UNK	C	746:UNK	N	15.74
1	A	1000:UNK	C	1007:UNK	N	13.39
1	C	1000:UNK	C	1007:UNK	N	13.39
1	E	1000:UNK	C	1007:UNK	N	13.39
1	G	1000:UNK	C	1007:UNK	N	13.39
1	I	1000:UNK	C	1007:UNK	N	13.39
1	K	1000:UNK	C	1007:UNK	N	13.39
1	M	1000:UNK	C	1007:UNK	N	13.39
1	O	1000:UNK	C	1007:UNK	N	13.39
1	Q	1000:UNK	C	1007:UNK	N	13.39
1	S	1000:UNK	C	1007:UNK	N	13.39
1	U	1000:UNK	C	1007:UNK	N	13.39
1	W	1000:UNK	C	1007:UNK	N	13.39
1	Y	1000:UNK	C	1007:UNK	N	13.39
1	a	1000:UNK	C	1007:UNK	N	13.39
1	c	1000:UNK	C	1007:UNK	N	13.39
1	e	1000:UNK	C	1007:UNK	N	13.39

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Model	Chain	Residue-1	Atom-1	Residue-2	Atom-2	Distance (Å)
1	A	1085:UNK	C	1090:UNK	N	12.98
1	C	1085:UNK	C	1090:UNK	N	12.98
1	E	1085:UNK	C	1090:UNK	N	12.98
1	G	1085:UNK	C	1090:UNK	N	12.98
1	I	1085:UNK	C	1090:UNK	N	12.98
1	K	1085:UNK	C	1090:UNK	N	12.98
1	M	1085:UNK	C	1090:UNK	N	12.98
1	O	1085:UNK	C	1090:UNK	N	12.98
1	Q	1085:UNK	C	1090:UNK	N	12.98
1	S	1085:UNK	C	1090:UNK	N	12.98
1	U	1085:UNK	C	1090:UNK	N	12.98
1	W	1085:UNK	C	1090:UNK	N	12.98
1	Y	1085:UNK	C	1090:UNK	N	12.98
1	a	1085:UNK	C	1090:UNK	N	12.98
1	c	1085:UNK	C	1090:UNK	N	12.98
1	e	1085:UNK	C	1090:UNK	N	12.98
1	A	1167:UNK	C	1180:UNK	N	10.53
1	C	1167:UNK	C	1180:UNK	N	10.53
1	E	1167:UNK	C	1180:UNK	N	10.53
1	G	1167:UNK	C	1180:UNK	N	10.53
1	I	1167:UNK	C	1180:UNK	N	10.53
1	K	1167:UNK	C	1180:UNK	N	10.53
1	M	1167:UNK	C	1180:UNK	N	10.53
1	O	1167:UNK	C	1180:UNK	N	10.53
1	Q	1167:UNK	C	1180:UNK	N	10.53
1	S	1167:UNK	C	1180:UNK	N	10.53
1	U	1167:UNK	C	1180:UNK	N	10.53
1	W	1167:UNK	C	1180:UNK	N	10.53
1	Y	1167:UNK	C	1180:UNK	N	10.53
1	a	1167:UNK	C	1180:UNK	N	10.53
1	c	1167:UNK	C	1180:UNK	N	10.53
1	e	1167:UNK	C	1180:UNK	N	10.53
1	A	1013:UNK	C	1018:UNK	N	9.64
1	E	1013:UNK	C	1018:UNK	N	9.64
1	I	1013:UNK	C	1018:UNK	N	9.64
1	M	1013:UNK	C	1018:UNK	N	9.64
1	Q	1013:UNK	C	1018:UNK	N	9.64
1	S	1013:UNK	C	1018:UNK	N	9.64
1	U	1013:UNK	C	1018:UNK	N	9.64
1	Y	1013:UNK	C	1018:UNK	N	9.64
1	c	1013:UNK	C	1018:UNK	N	9.64
1	C	1013:UNK	C	1018:UNK	N	9.63

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Model	Chain	Residue-1	Atom-1	Residue-2	Atom-2	Distance (Å)
1	G	1013:UNK	C	1018:UNK	N	9.63
1	K	1013:UNK	C	1018:UNK	N	9.63
1	O	1013:UNK	C	1018:UNK	N	9.63
1	W	1013:UNK	C	1018:UNK	N	9.63
1	a	1013:UNK	C	1018:UNK	N	9.63
1	e	1013:UNK	C	1018:UNK	N	9.63
1	A	1155:UNK	C	1163:UNK	N	9.22
1	C	1155:UNK	C	1163:UNK	N	9.22
1	E	1155:UNK	C	1163:UNK	N	9.22
1	G	1155:UNK	C	1163:UNK	N	9.22
1	I	1155:UNK	C	1163:UNK	N	9.22
1	K	1155:UNK	C	1163:UNK	N	9.22
1	M	1155:UNK	C	1163:UNK	N	9.22
1	O	1155:UNK	C	1163:UNK	N	9.22
1	Q	1155:UNK	C	1163:UNK	N	9.22
1	S	1155:UNK	C	1163:UNK	N	9.22
1	U	1155:UNK	C	1163:UNK	N	9.22
1	W	1155:UNK	C	1163:UNK	N	9.22
1	Y	1155:UNK	C	1163:UNK	N	9.22
1	a	1155:UNK	C	1163:UNK	N	9.22
1	c	1155:UNK	C	1163:UNK	N	9.22
1	e	1155:UNK	C	1163:UNK	N	9.22
1	A	942:UNK	C	946:UNK	N	8.46
1	C	942:UNK	C	946:UNK	N	8.46
1	E	942:UNK	C	946:UNK	N	8.46
1	G	942:UNK	C	946:UNK	N	8.46
1	I	942:UNK	C	946:UNK	N	8.46
1	K	942:UNK	C	946:UNK	N	8.46
1	M	942:UNK	C	946:UNK	N	8.46
1	O	942:UNK	C	946:UNK	N	8.46
1	Q	942:UNK	C	946:UNK	N	8.46
1	S	942:UNK	C	946:UNK	N	8.46
1	U	942:UNK	C	946:UNK	N	8.46
1	W	942:UNK	C	946:UNK	N	8.46
1	Y	942:UNK	C	946:UNK	N	8.46
1	a	942:UNK	C	946:UNK	N	8.46
1	c	942:UNK	C	946:UNK	N	8.46
1	e	942:UNK	C	946:UNK	N	8.46
1	A	1113:UNK	C	1120:UNK	N	8.02
1	E	1113:UNK	C	1120:UNK	N	8.02
1	I	1113:UNK	C	1120:UNK	N	8.02
1	M	1113:UNK	C	1120:UNK	N	8.02

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Model	Chain	Residue-1	Atom-1	Residue-2	Atom-2	Distance (Å)
1	Q	1113:UNK	C	1120:UNK	N	8.02
1	U	1113:UNK	C	1120:UNK	N	8.02
1	Y	1113:UNK	C	1120:UNK	N	8.02
1	c	1113:UNK	C	1120:UNK	N	8.02
1	C	1113:UNK	C	1120:UNK	N	8.01
1	G	1113:UNK	C	1120:UNK	N	8.01
1	K	1113:UNK	C	1120:UNK	N	8.01
1	O	1113:UNK	C	1120:UNK	N	8.01
1	S	1113:UNK	C	1120:UNK	N	8.01
1	W	1113:UNK	C	1120:UNK	N	8.01
1	a	1113:UNK	C	1120:UNK	N	8.01
1	e	1113:UNK	C	1120:UNK	N	8.01
1	A	917:UNK	C	918:UNK	N	7.68
1	C	917:UNK	C	918:UNK	N	7.68
1	E	917:UNK	C	918:UNK	N	7.68
1	G	917:UNK	C	918:UNK	N	7.68
1	I	917:UNK	C	918:UNK	N	7.68
1	K	917:UNK	C	918:UNK	N	7.68
1	M	917:UNK	C	918:UNK	N	7.68
1	O	917:UNK	C	918:UNK	N	7.68
1	Q	917:UNK	C	918:UNK	N	7.68
1	S	917:UNK	C	918:UNK	N	7.68
1	U	917:UNK	C	918:UNK	N	7.68
1	W	917:UNK	C	918:UNK	N	7.68
1	Y	917:UNK	C	918:UNK	N	7.68
1	a	917:UNK	C	918:UNK	N	7.68
1	c	917:UNK	C	918:UNK	N	7.68
1	e	917:UNK	C	918:UNK	N	7.68
1	A	1137:UNK	C	1141:UNK	N	7.47
1	C	1137:UNK	C	1141:UNK	N	7.47
1	E	1137:UNK	C	1141:UNK	N	7.47
1	G	1137:UNK	C	1141:UNK	N	7.47
1	I	1137:UNK	C	1141:UNK	N	7.47
1	K	1137:UNK	C	1141:UNK	N	7.47
1	M	1137:UNK	C	1141:UNK	N	7.47
1	O	1137:UNK	C	1141:UNK	N	7.47
1	Q	1137:UNK	C	1141:UNK	N	7.47
1	S	1137:UNK	C	1141:UNK	N	7.47
1	U	1137:UNK	C	1141:UNK	N	7.47
1	W	1137:UNK	C	1141:UNK	N	7.47
1	Y	1137:UNK	C	1141:UNK	N	7.47
1	a	1137:UNK	C	1141:UNK	N	7.47

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Model	Chain	Residue-1	Atom-1	Residue-2	Atom-2	Distance (Å)
1	c	1137:UNK	C	1141:UNK	N	7.47
1	e	1137:UNK	C	1141:UNK	N	7.47
1	A	971:UNK	C	975:UNK	N	6.93
1	C	971:UNK	C	975:UNK	N	6.93
1	E	971:UNK	C	975:UNK	N	6.93
1	G	971:UNK	C	975:UNK	N	6.93
1	I	971:UNK	C	975:UNK	N	6.93
1	K	971:UNK	C	975:UNK	N	6.93
1	M	971:UNK	C	975:UNK	N	6.93
1	O	971:UNK	C	975:UNK	N	6.93
1	Q	971:UNK	C	975:UNK	N	6.93
1	S	971:UNK	C	975:UNK	N	6.93
1	U	971:UNK	C	975:UNK	N	6.93
1	W	971:UNK	C	975:UNK	N	6.93
1	Y	971:UNK	C	975:UNK	N	6.93
1	a	971:UNK	C	975:UNK	N	6.93
1	c	971:UNK	C	975:UNK	N	6.93
1	e	971:UNK	C	975:UNK	N	6.93
1	A	858:UNK	C	862:UNK	N	6.75
1	C	858:UNK	C	862:UNK	N	6.75
1	E	858:UNK	C	862:UNK	N	6.75
1	G	858:UNK	C	862:UNK	N	6.75
1	I	858:UNK	C	862:UNK	N	6.75
1	K	858:UNK	C	862:UNK	N	6.75
1	M	858:UNK	C	862:UNK	N	6.75
1	O	858:UNK	C	862:UNK	N	6.75
1	Q	858:UNK	C	862:UNK	N	6.75
1	S	858:UNK	C	862:UNK	N	6.75
1	U	858:UNK	C	862:UNK	N	6.75
1	W	858:UNK	C	862:UNK	N	6.75
1	Y	858:UNK	C	862:UNK	N	6.75
1	a	858:UNK	C	862:UNK	N	6.75
1	c	858:UNK	C	862:UNK	N	6.75
1	e	858:UNK	C	862:UNK	N	6.75
1	A	952:UNK	C	955:UNK	N	6.70
1	C	952:UNK	C	955:UNK	N	6.70
1	E	952:UNK	C	955:UNK	N	6.70
1	G	952:UNK	C	955:UNK	N	6.70
1	I	952:UNK	C	955:UNK	N	6.70
1	K	952:UNK	C	955:UNK	N	6.70
1	M	952:UNK	C	955:UNK	N	6.70
1	O	952:UNK	C	955:UNK	N	6.70

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Model	Chain	Residue-1	Atom-1	Residue-2	Atom-2	Distance (Å)
1	Q	952:UNK	C	955:UNK	N	6.70
1	S	952:UNK	C	955:UNK	N	6.70
1	U	952:UNK	C	955:UNK	N	6.70
1	W	952:UNK	C	955:UNK	N	6.70
1	Y	952:UNK	C	955:UNK	N	6.70
1	a	952:UNK	C	955:UNK	N	6.70
1	c	952:UNK	C	955:UNK	N	6.70
1	e	952:UNK	C	955:UNK	N	6.70
1	A	1072:UNK	C	1076:UNK	N	6.33
1	C	1072:UNK	C	1076:UNK	N	6.33
1	E	1072:UNK	C	1076:UNK	N	6.33
1	G	1072:UNK	C	1076:UNK	N	6.33
1	I	1072:UNK	C	1076:UNK	N	6.33
1	K	1072:UNK	C	1076:UNK	N	6.33
1	M	1072:UNK	C	1076:UNK	N	6.33
1	O	1072:UNK	C	1076:UNK	N	6.33
1	Q	1072:UNK	C	1076:UNK	N	6.33
1	S	1072:UNK	C	1076:UNK	N	6.33
1	U	1072:UNK	C	1076:UNK	N	6.33
1	W	1072:UNK	C	1076:UNK	N	6.33
1	Y	1072:UNK	C	1076:UNK	N	6.33
1	a	1072:UNK	C	1076:UNK	N	6.33
1	c	1072:UNK	C	1076:UNK	N	6.33
1	e	1072:UNK	C	1076:UNK	N	6.33
1	A	1032:UNK	C	1036:UNK	N	5.79
1	C	1032:UNK	C	1036:UNK	N	5.79
1	E	1032:UNK	C	1036:UNK	N	5.79
1	G	1032:UNK	C	1036:UNK	N	5.79
1	I	1032:UNK	C	1036:UNK	N	5.79
1	K	1032:UNK	C	1036:UNK	N	5.79
1	M	1032:UNK	C	1036:UNK	N	5.79
1	O	1032:UNK	C	1036:UNK	N	5.79
1	Q	1032:UNK	C	1036:UNK	N	5.79
1	S	1032:UNK	C	1036:UNK	N	5.79
1	U	1032:UNK	C	1036:UNK	N	5.79
1	W	1032:UNK	C	1036:UNK	N	5.79
1	Y	1032:UNK	C	1036:UNK	N	5.79
1	a	1032:UNK	C	1036:UNK	N	5.79
1	c	1032:UNK	C	1036:UNK	N	5.79
1	e	1032:UNK	C	1036:UNK	N	5.79
1	A	837:UNK	C	841:UNK	N	5.74
1	C	837:UNK	C	841:UNK	N	5.74

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Model	Chain	Residue-1	Atom-1	Residue-2	Atom-2	Distance (Å)
1	E	837:UNK	C	841:UNK	N	5.74
1	G	837:UNK	C	841:UNK	N	5.74
1	I	837:UNK	C	841:UNK	N	5.74
1	K	837:UNK	C	841:UNK	N	5.74
1	M	837:UNK	C	841:UNK	N	5.74
1	O	837:UNK	C	841:UNK	N	5.74
1	Q	837:UNK	C	841:UNK	N	5.74
1	S	837:UNK	C	841:UNK	N	5.74
1	U	837:UNK	C	841:UNK	N	5.74
1	W	837:UNK	C	841:UNK	N	5.74
1	Y	837:UNK	C	841:UNK	N	5.74
1	a	837:UNK	C	841:UNK	N	5.74
1	c	837:UNK	C	841:UNK	N	5.74
1	e	837:UNK	C	841:UNK	N	5.74
1	A	753:UNK	C	756:UNK	N	5.69
1	C	753:UNK	C	756:UNK	N	5.69
1	E	753:UNK	C	756:UNK	N	5.69
1	G	753:UNK	C	756:UNK	N	5.69
1	I	753:UNK	C	756:UNK	N	5.69
1	K	753:UNK	C	756:UNK	N	5.69
1	M	753:UNK	C	756:UNK	N	5.69
1	O	753:UNK	C	756:UNK	N	5.69
1	Q	753:UNK	C	756:UNK	N	5.69
1	S	753:UNK	C	756:UNK	N	5.69
1	U	753:UNK	C	756:UNK	N	5.69
1	W	753:UNK	C	756:UNK	N	5.69
1	Y	753:UNK	C	756:UNK	N	5.69
1	a	753:UNK	C	756:UNK	N	5.69
1	c	753:UNK	C	756:UNK	N	5.69
1	e	753:UNK	C	756:UNK	N	5.69
1	A	981:UNK	C	984:UNK	N	5.54
1	C	981:UNK	C	984:UNK	N	5.54
1	E	981:UNK	C	984:UNK	N	5.54
1	G	981:UNK	C	984:UNK	N	5.54
1	I	981:UNK	C	984:UNK	N	5.54
1	K	981:UNK	C	984:UNK	N	5.54
1	M	981:UNK	C	984:UNK	N	5.54
1	O	981:UNK	C	984:UNK	N	5.54
1	Q	981:UNK	C	984:UNK	N	5.54
1	S	981:UNK	C	984:UNK	N	5.54
1	U	981:UNK	C	984:UNK	N	5.54
1	W	981:UNK	C	984:UNK	N	5.54

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Model	Chain	Residue-1	Atom-1	Residue-2	Atom-2	Distance (Å)
1	Y	981:UNK	C	984:UNK	N	5.54
1	a	981:UNK	C	984:UNK	N	5.54
1	c	981:UNK	C	984:UNK	N	5.54
1	e	981:UNK	C	984:UNK	N	5.54
1	A	992:UNK	C	995:UNK	N	5.31
1	C	992:UNK	C	995:UNK	N	5.31
1	E	992:UNK	C	995:UNK	N	5.31
1	G	992:UNK	C	995:UNK	N	5.31
1	I	992:UNK	C	995:UNK	N	5.31
1	K	992:UNK	C	995:UNK	N	5.31
1	M	992:UNK	C	995:UNK	N	5.31
1	O	992:UNK	C	995:UNK	N	5.31
1	Q	992:UNK	C	995:UNK	N	5.31
1	S	992:UNK	C	995:UNK	N	5.31
1	U	992:UNK	C	995:UNK	N	5.31
1	W	992:UNK	C	995:UNK	N	5.31
1	Y	992:UNK	C	995:UNK	N	5.31
1	a	992:UNK	C	995:UNK	N	5.31
1	c	992:UNK	C	995:UNK	N	5.31
1	e	992:UNK	C	995:UNK	N	5.31
1	A	1053:UNK	C	1056:UNK	N	5.16
1	C	1053:UNK	C	1056:UNK	N	5.16
1	E	1053:UNK	C	1056:UNK	N	5.16
1	G	1053:UNK	C	1056:UNK	N	5.16
1	I	1053:UNK	C	1056:UNK	N	5.16
1	K	1053:UNK	C	1056:UNK	N	5.16
1	M	1053:UNK	C	1056:UNK	N	5.16
1	O	1053:UNK	C	1056:UNK	N	5.16
1	Q	1053:UNK	C	1056:UNK	N	5.16
1	S	1053:UNK	C	1056:UNK	N	5.16
1	U	1053:UNK	C	1056:UNK	N	5.16
1	W	1053:UNK	C	1056:UNK	N	5.16
1	Y	1053:UNK	C	1056:UNK	N	5.16
1	a	1053:UNK	C	1056:UNK	N	5.16
1	c	1053:UNK	C	1056:UNK	N	5.16
1	e	1053:UNK	C	1056:UNK	N	5.16
1	A	1094:UNK	C	1098:UNK	N	5.15
1	C	1094:UNK	C	1098:UNK	N	5.15
1	E	1094:UNK	C	1098:UNK	N	5.15
1	G	1094:UNK	C	1098:UNK	N	5.15
1	I	1094:UNK	C	1098:UNK	N	5.15
1	K	1094:UNK	C	1098:UNK	N	5.15

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Model	Chain	Residue-1	Atom-1	Residue-2	Atom-2	Distance (Å)
1	M	1094:UNK	C	1098:UNK	N	5.15
1	O	1094:UNK	C	1098:UNK	N	5.15
1	Q	1094:UNK	C	1098:UNK	N	5.15
1	S	1094:UNK	C	1098:UNK	N	5.15
1	U	1094:UNK	C	1098:UNK	N	5.15
1	W	1094:UNK	C	1098:UNK	N	5.15
1	Y	1094:UNK	C	1098:UNK	N	5.15
1	a	1094:UNK	C	1098:UNK	N	5.15
1	c	1094:UNK	C	1098:UNK	N	5.15
1	e	1094:UNK	C	1098:UNK	N	5.15
1	A	1196:UNK	C	1199:UNK	N	5.04
1	C	1196:UNK	C	1199:UNK	N	5.04
1	E	1196:UNK	C	1199:UNK	N	5.04
1	G	1196:UNK	C	1199:UNK	N	5.04
1	I	1196:UNK	C	1199:UNK	N	5.04
1	K	1196:UNK	C	1199:UNK	N	5.04
1	M	1196:UNK	C	1199:UNK	N	5.04
1	O	1196:UNK	C	1199:UNK	N	5.04
1	Q	1196:UNK	C	1199:UNK	N	5.04
1	S	1196:UNK	C	1199:UNK	N	5.04
1	U	1196:UNK	C	1199:UNK	N	5.04
1	W	1196:UNK	C	1199:UNK	N	5.04
1	Y	1196:UNK	C	1199:UNK	N	5.04
1	a	1196:UNK	C	1199:UNK	N	5.04
1	c	1196:UNK	C	1199:UNK	N	5.04
1	e	1196:UNK	C	1199:UNK	N	5.04
1	A	961:UNK	C	964:UNK	N	4.96
1	C	961:UNK	C	964:UNK	N	4.96
1	E	961:UNK	C	964:UNK	N	4.96
1	G	961:UNK	C	964:UNK	N	4.96
1	I	961:UNK	C	964:UNK	N	4.96
1	K	961:UNK	C	964:UNK	N	4.96
1	M	961:UNK	C	964:UNK	N	4.96
1	O	961:UNK	C	964:UNK	N	4.96
1	Q	961:UNK	C	964:UNK	N	4.96
1	S	961:UNK	C	964:UNK	N	4.96
1	U	961:UNK	C	964:UNK	N	4.96
1	W	961:UNK	C	964:UNK	N	4.96
1	Y	961:UNK	C	964:UNK	N	4.96
1	a	961:UNK	C	964:UNK	N	4.96
1	c	961:UNK	C	964:UNK	N	4.96
1	e	961:UNK	C	964:UNK	N	4.96

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Model	Chain	Residue-1	Atom-1	Residue-2	Atom-2	Distance (Å)
1	A	1105:UNK	C	1108:UNK	N	4.81
1	C	1105:UNK	C	1108:UNK	N	4.81
1	E	1105:UNK	C	1108:UNK	N	4.81
1	G	1105:UNK	C	1108:UNK	N	4.81
1	I	1105:UNK	C	1108:UNK	N	4.81
1	K	1105:UNK	C	1108:UNK	N	4.81
1	M	1105:UNK	C	1108:UNK	N	4.81
1	O	1105:UNK	C	1108:UNK	N	4.81
1	Q	1105:UNK	C	1108:UNK	N	4.81
1	S	1105:UNK	C	1108:UNK	N	4.81
1	U	1105:UNK	C	1108:UNK	N	4.81
1	W	1105:UNK	C	1108:UNK	N	4.81
1	Y	1105:UNK	C	1108:UNK	N	4.81
1	a	1105:UNK	C	1108:UNK	N	4.81
1	c	1105:UNK	C	1108:UNK	N	4.81
1	e	1105:UNK	C	1108:UNK	N	4.81
1	A	697:UNK	C	702:UNK	N	4.76
1	C	697:UNK	C	702:UNK	N	4.76
1	E	697:UNK	C	702:UNK	N	4.76
1	G	697:UNK	C	702:UNK	N	4.76
1	I	697:UNK	C	702:UNK	N	4.76
1	K	697:UNK	C	702:UNK	N	4.76
1	M	697:UNK	C	702:UNK	N	4.76
1	O	697:UNK	C	702:UNK	N	4.76
1	Q	697:UNK	C	702:UNK	N	4.76
1	S	697:UNK	C	702:UNK	N	4.76
1	U	697:UNK	C	702:UNK	N	4.76
1	W	697:UNK	C	702:UNK	N	4.76
1	Y	697:UNK	C	702:UNK	N	4.76
1	a	697:UNK	C	702:UNK	N	4.76
1	c	697:UNK	C	702:UNK	N	4.76
1	e	697:UNK	C	702:UNK	N	4.76
1	A	692:UNK	C	694:UNK	N	4.70
1	C	692:UNK	C	694:UNK	N	4.70
1	E	692:UNK	C	694:UNK	N	4.70
1	G	692:UNK	C	694:UNK	N	4.70
1	I	692:UNK	C	694:UNK	N	4.70
1	K	692:UNK	C	694:UNK	N	4.70
1	M	692:UNK	C	694:UNK	N	4.70
1	O	692:UNK	C	694:UNK	N	4.70
1	Q	692:UNK	C	694:UNK	N	4.70
1	S	692:UNK	C	694:UNK	N	4.70

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Model	Chain	Residue-1	Atom-1	Residue-2	Atom-2	Distance (Å)
1	U	692:UNK	C	694:UNK	N	4.70
1	W	692:UNK	C	694:UNK	N	4.70
1	Y	692:UNK	C	694:UNK	N	4.70
1	a	692:UNK	C	694:UNK	N	4.70
1	c	692:UNK	C	694:UNK	N	4.70
1	e	692:UNK	C	694:UNK	N	4.70
1	A	1043:UNK	C	1045:UNK	N	4.26
1	C	1043:UNK	C	1045:UNK	N	4.26
1	E	1043:UNK	C	1045:UNK	N	4.26
1	G	1043:UNK	C	1045:UNK	N	4.26
1	I	1043:UNK	C	1045:UNK	N	4.26
1	K	1043:UNK	C	1045:UNK	N	4.26
1	M	1043:UNK	C	1045:UNK	N	4.26
1	O	1043:UNK	C	1045:UNK	N	4.26
1	Q	1043:UNK	C	1045:UNK	N	4.26
1	S	1043:UNK	C	1045:UNK	N	4.26
1	U	1043:UNK	C	1045:UNK	N	4.26
1	W	1043:UNK	C	1045:UNK	N	4.26
1	Y	1043:UNK	C	1045:UNK	N	4.26
1	a	1043:UNK	C	1045:UNK	N	4.26
1	c	1043:UNK	C	1045:UNK	N	4.26
1	e	1043:UNK	C	1045:UNK	N	4.26
1	A	826:UNK	C	828:UNK	N	4.14
1	C	826:UNK	C	828:UNK	N	4.14
1	E	826:UNK	C	828:UNK	N	4.14
1	G	826:UNK	C	828:UNK	N	4.14
1	I	826:UNK	C	828:UNK	N	4.14
1	K	826:UNK	C	828:UNK	N	4.14
1	M	826:UNK	C	828:UNK	N	4.14
1	O	826:UNK	C	828:UNK	N	4.14
1	Q	826:UNK	C	828:UNK	N	4.14
1	S	826:UNK	C	828:UNK	N	4.14
1	U	826:UNK	C	828:UNK	N	4.14
1	W	826:UNK	C	828:UNK	N	4.14
1	Y	826:UNK	C	828:UNK	N	4.14
1	a	826:UNK	C	828:UNK	N	4.14
1	c	826:UNK	C	828:UNK	N	4.14
1	e	826:UNK	C	828:UNK	N	4.14
1	A	931:UNK	C	934:UNK	N	3.93
1	C	931:UNK	C	934:UNK	N	3.93
1	E	931:UNK	C	934:UNK	N	3.93
1	G	931:UNK	C	934:UNK	N	3.93

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Model	Chain	Residue-1	Atom-1	Residue-2	Atom-2	Distance (Å)
1	I	931:UNK	C	934:UNK	N	3.93
1	K	931:UNK	C	934:UNK	N	3.93
1	M	931:UNK	C	934:UNK	N	3.93
1	O	931:UNK	C	934:UNK	N	3.93
1	Q	931:UNK	C	934:UNK	N	3.93
1	S	931:UNK	C	934:UNK	N	3.93
1	U	931:UNK	C	934:UNK	N	3.93
1	W	931:UNK	C	934:UNK	N	3.93
1	Y	931:UNK	C	934:UNK	N	3.93
1	a	931:UNK	C	934:UNK	N	3.93
1	c	931:UNK	C	934:UNK	N	3.93
1	e	931:UNK	C	934:UNK	N	3.93
1	A	687:UNK	C	689:UNK	N	3.56
1	C	687:UNK	C	689:UNK	N	3.56
1	E	615:UNK	C	617:UNK	N	3.56
1	E	687:UNK	C	689:UNK	N	3.56
1	G	615:UNK	C	617:UNK	N	3.56
1	G	687:UNK	C	689:UNK	N	3.56
1	I	615:UNK	C	617:UNK	N	3.56
1	I	687:UNK	C	689:UNK	N	3.56
1	K	615:UNK	C	617:UNK	N	3.56
1	K	687:UNK	C	689:UNK	N	3.56
1	M	615:UNK	C	617:UNK	N	3.56
1	M	687:UNK	C	689:UNK	N	3.56
1	O	615:UNK	C	617:UNK	N	3.56
1	O	687:UNK	C	689:UNK	N	3.56
1	Q	615:UNK	C	617:UNK	N	3.56
1	Q	687:UNK	C	689:UNK	N	3.56
1	S	615:UNK	C	617:UNK	N	3.56
1	S	687:UNK	C	689:UNK	N	3.56
1	U	615:UNK	C	617:UNK	N	3.56
1	U	687:UNK	C	689:UNK	N	3.56
1	W	615:UNK	C	617:UNK	N	3.56
1	W	687:UNK	C	689:UNK	N	3.56
1	Y	615:UNK	C	617:UNK	N	3.56
1	Y	687:UNK	C	689:UNK	N	3.56
1	a	615:UNK	C	617:UNK	N	3.56
1	a	687:UNK	C	689:UNK	N	3.56
1	c	615:UNK	C	617:UNK	N	3.56
1	c	687:UNK	C	689:UNK	N	3.56
1	e	615:UNK	C	617:UNK	N	3.56
1	e	687:UNK	C	689:UNK	N	3.56

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Model	Chain	Residue-1	Atom-1	Residue-2	Atom-2	Distance (Å)
1	A	1127:UNK	C	1129:UNK	N	3.55
1	C	1127:UNK	C	1129:UNK	N	3.55
1	E	1127:UNK	C	1129:UNK	N	3.55
1	G	1127:UNK	C	1129:UNK	N	3.55
1	I	1127:UNK	C	1129:UNK	N	3.55
1	K	1127:UNK	C	1129:UNK	N	3.55
1	M	1127:UNK	C	1129:UNK	N	3.55
1	O	1127:UNK	C	1129:UNK	N	3.55
1	Q	1127:UNK	C	1129:UNK	N	3.55
1	S	1127:UNK	C	1129:UNK	N	3.55
1	U	1127:UNK	C	1129:UNK	N	3.55
1	W	1127:UNK	C	1129:UNK	N	3.55
1	Y	1127:UNK	C	1129:UNK	N	3.55
1	a	1127:UNK	C	1129:UNK	N	3.55
1	c	1127:UNK	C	1129:UNK	N	3.55
1	e	1127:UNK	C	1129:UNK	N	3.55
1	C	615:UNK	C	617:UNK	N	3.48
1	A	615:UNK	C	617:UNK	N	3.47
1	A	817:UNK	C	819:UNK	N	3.39
1	C	817:UNK	C	819:UNK	N	3.39
1	E	817:UNK	C	819:UNK	N	3.39
1	G	817:UNK	C	819:UNK	N	3.39
1	I	817:UNK	C	819:UNK	N	3.39
1	K	817:UNK	C	819:UNK	N	3.39
1	M	817:UNK	C	819:UNK	N	3.39
1	O	817:UNK	C	819:UNK	N	3.39
1	Q	817:UNK	C	819:UNK	N	3.39
1	S	817:UNK	C	819:UNK	N	3.39
1	U	817:UNK	C	819:UNK	N	3.39
1	W	817:UNK	C	819:UNK	N	3.39
1	Y	817:UNK	C	819:UNK	N	3.39
1	a	817:UNK	C	819:UNK	N	3.39
1	c	817:UNK	C	819:UNK	N	3.39
1	e	817:UNK	C	819:UNK	N	3.39
1	A	870:UNK	C	872:UNK	N	3.29
1	C	870:UNK	C	872:UNK	N	3.29
1	E	870:UNK	C	872:UNK	N	3.29
1	G	870:UNK	C	872:UNK	N	3.29
1	I	870:UNK	C	872:UNK	N	3.29
1	K	870:UNK	C	872:UNK	N	3.29
1	M	870:UNK	C	872:UNK	N	3.29
1	O	870:UNK	C	872:UNK	N	3.29

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Model	Chain	Residue-1	Atom-1	Residue-2	Atom-2	Distance (Å)
1	Q	870:UNK	C	872:UNK	N	3.29
1	S	870:UNK	C	872:UNK	N	3.29
1	U	870:UNK	C	872:UNK	N	3.29
1	W	870:UNK	C	872:UNK	N	3.29
1	Y	870:UNK	C	872:UNK	N	3.29
1	a	870:UNK	C	872:UNK	N	3.29
1	c	870:UNK	C	872:UNK	N	3.29
1	e	870:UNK	C	872:UNK	N	3.29
1	A	835:UNK	C	836:UNK	N	2.88
1	E	835:UNK	C	836:UNK	N	2.88
1	I	835:UNK	C	836:UNK	N	2.88
1	M	835:UNK	C	836:UNK	N	2.88
1	Q	835:UNK	C	836:UNK	N	2.88
1	U	835:UNK	C	836:UNK	N	2.88
1	Y	835:UNK	C	836:UNK	N	2.88
1	c	835:UNK	C	836:UNK	N	2.88
1	C	835:UNK	C	836:UNK	N	2.87
1	G	835:UNK	C	836:UNK	N	2.87
1	K	835:UNK	C	836:UNK	N	2.87
1	O	835:UNK	C	836:UNK	N	2.87
1	S	835:UNK	C	836:UNK	N	2.87
1	W	835:UNK	C	836:UNK	N	2.87
1	a	835:UNK	C	836:UNK	N	2.87
1	e	835:UNK	C	836:UNK	N	2.87
1	A	657:UNK	C	658:UNK	N	1.73
1	C	657:UNK	C	658:UNK	N	1.73
1	E	657:UNK	C	658:UNK	N	1.73
1	G	657:UNK	C	658:UNK	N	1.73
1	I	657:UNK	C	658:UNK	N	1.73
1	K	657:UNK	C	658:UNK	N	1.73
1	M	657:UNK	C	658:UNK	N	1.73
1	O	657:UNK	C	658:UNK	N	1.73
1	Q	657:UNK	C	658:UNK	N	1.73
1	S	657:UNK	C	658:UNK	N	1.73
1	U	657:UNK	C	658:UNK	N	1.73
1	W	657:UNK	C	658:UNK	N	1.73
1	Y	657:UNK	C	658:UNK	N	1.73
1	a	657:UNK	C	658:UNK	N	1.73
1	c	657:UNK	C	658:UNK	N	1.73
1	e	657:UNK	C	658:UNK	N	1.73
1	A	882:UNK	C	883:UNK	N	1.67
1	C	882:UNK	C	883:UNK	N	1.67

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Model	Chain	Residue-1	Atom-1	Residue-2	Atom-2	Distance (Å)
1	E	882:UNK	C	883:UNK	N	1.67
1	G	882:UNK	C	883:UNK	N	1.67
1	I	882:UNK	C	883:UNK	N	1.67
1	K	882:UNK	C	883:UNK	N	1.67
1	M	882:UNK	C	883:UNK	N	1.67
1	O	882:UNK	C	883:UNK	N	1.67
1	Q	882:UNK	C	883:UNK	N	1.67
1	S	882:UNK	C	883:UNK	N	1.67
1	U	882:UNK	C	883:UNK	N	1.67
1	W	882:UNK	C	883:UNK	N	1.67
1	Y	882:UNK	C	883:UNK	N	1.67
1	a	882:UNK	C	883:UNK	N	1.67
1	c	882:UNK	C	883:UNK	N	1.67
1	e	882:UNK	C	883:UNK	N	1.67

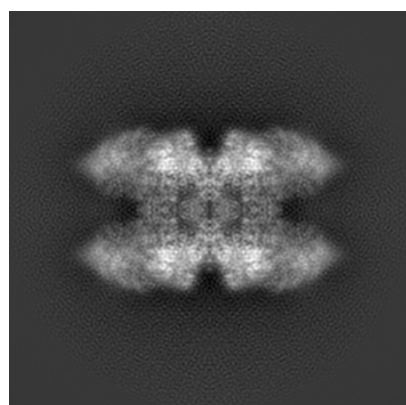
6 Map visualisation [i](#)

This section contains visualisations of the EMDB entry EMD-2870. These allow visual inspection of the internal detail of the map and identification of artifacts.

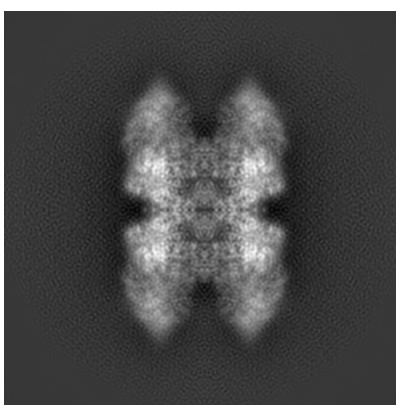
No raw map or half-maps were deposited for this entry and therefore no images, graphs, etc. pertaining to the raw map can be shown.

6.1 Orthogonal projections [i](#)

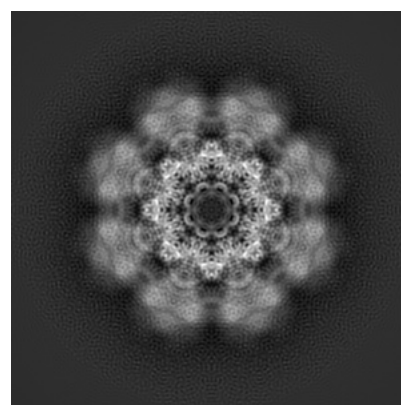
6.1.1 Primary map



X



Y

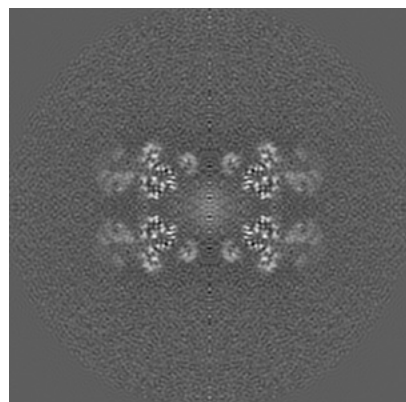


Z

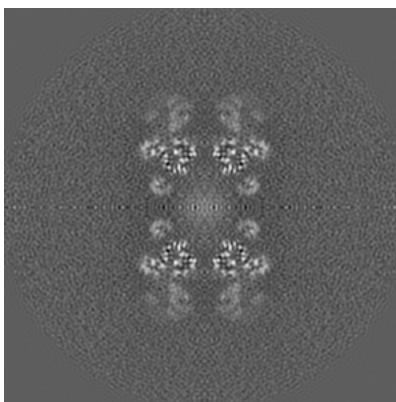
The images above show the map projected in three orthogonal directions.

6.2 Central slices [i](#)

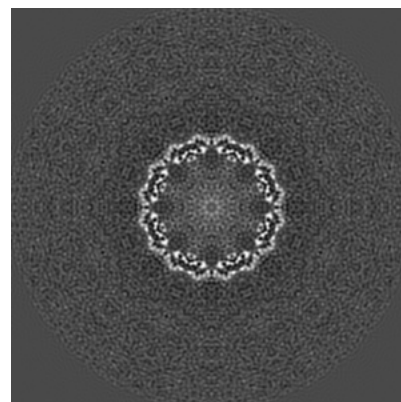
6.2.1 Primary map



X Index: 160



Y Index: 160

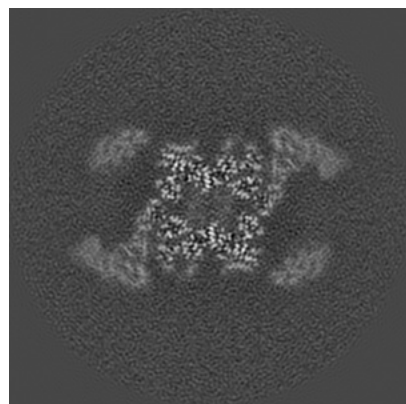


Z Index: 160

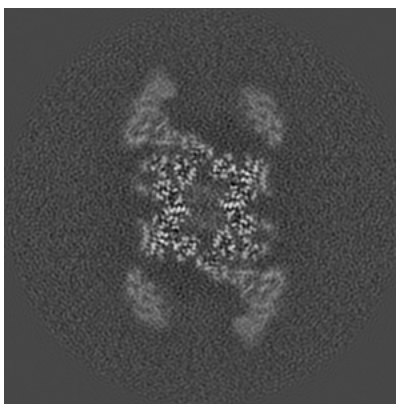
The images above show central slices of the map in three orthogonal directions.

6.3 Largest variance slices [i](#)

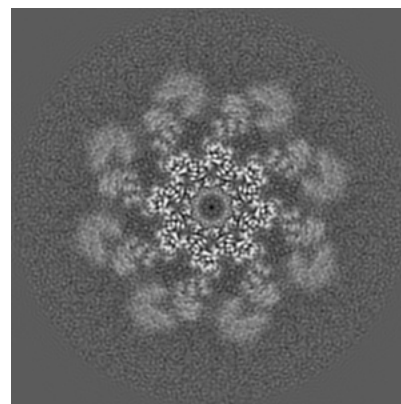
6.3.1 Primary map



X Index: 129



Y Index: 129

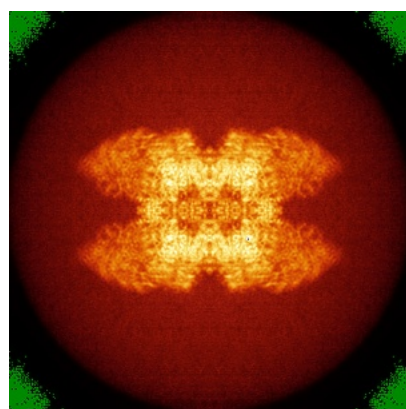


Z Index: 193

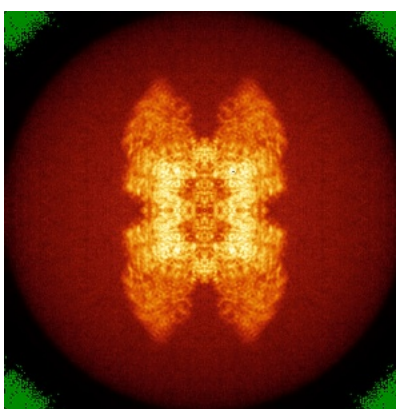
The images above show the largest variance slices of the map in three orthogonal directions.

6.4 Orthogonal standard-deviation projections (False-color) [i](#)

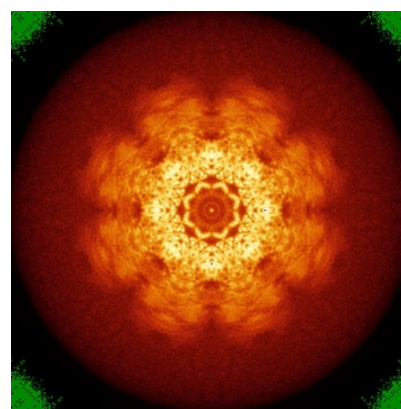
6.4.1 Primary map



X



Y



Z

The images above show the map standard deviation projections with false color in three orthogonal directions. Minimum values are shown in green, max in blue, and dark to light orange shades represent small to large values respectively.

6.5 Orthogonal surface views [i](#)

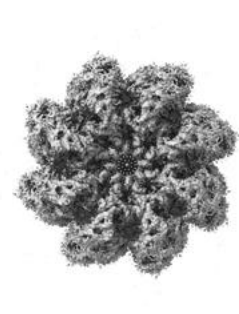
6.5.1 Primary map



X



Y



Z

The images above show the 3D surface view of the map at the recommended contour level 0.0642. These images, in conjunction with the slice images, may facilitate assessment of whether an appropriate contour level has been provided.

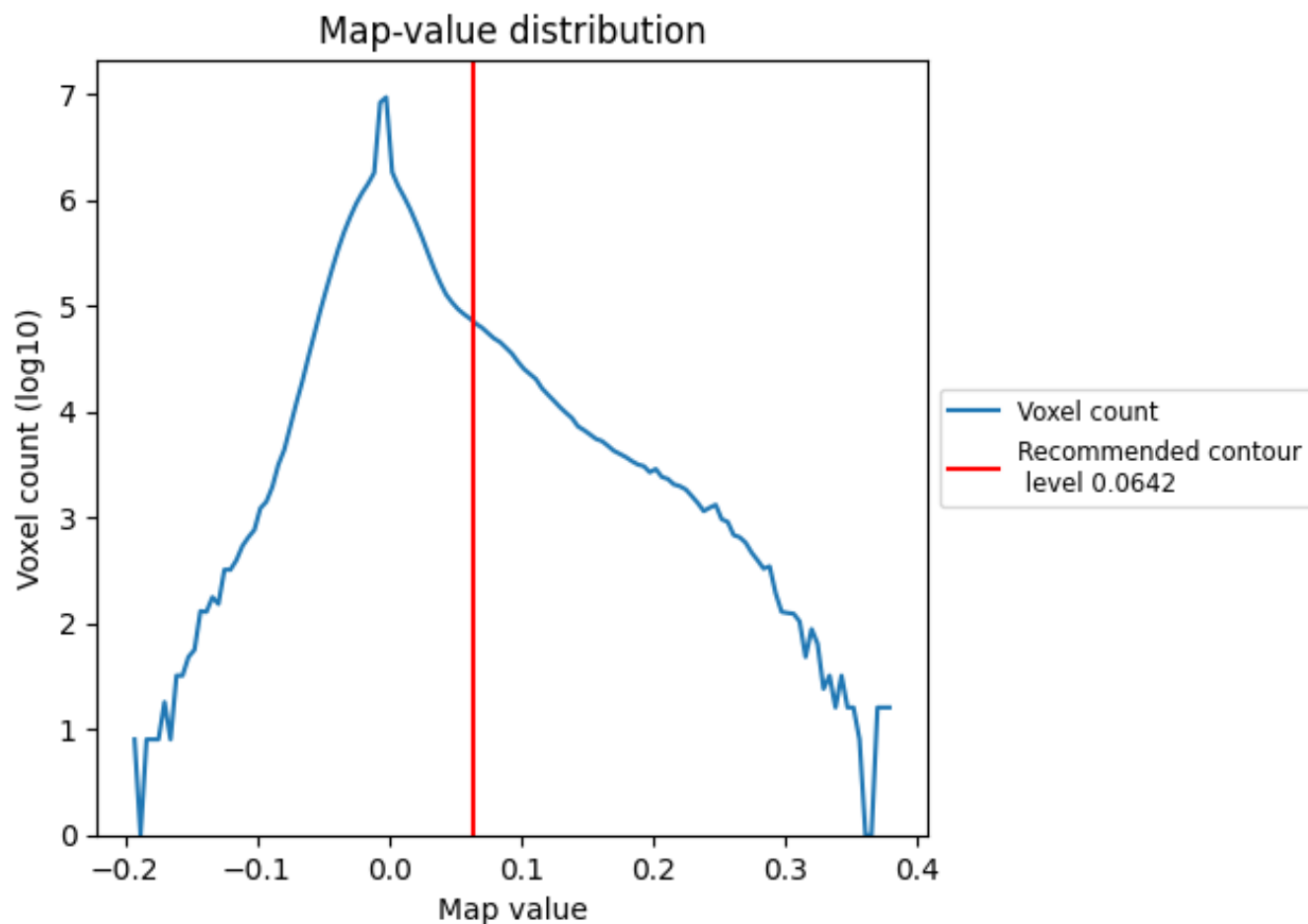
6.6 Mask visualisation [i](#)

This section was not generated. No masks/segmentation were deposited.

7 Map analysis [i](#)

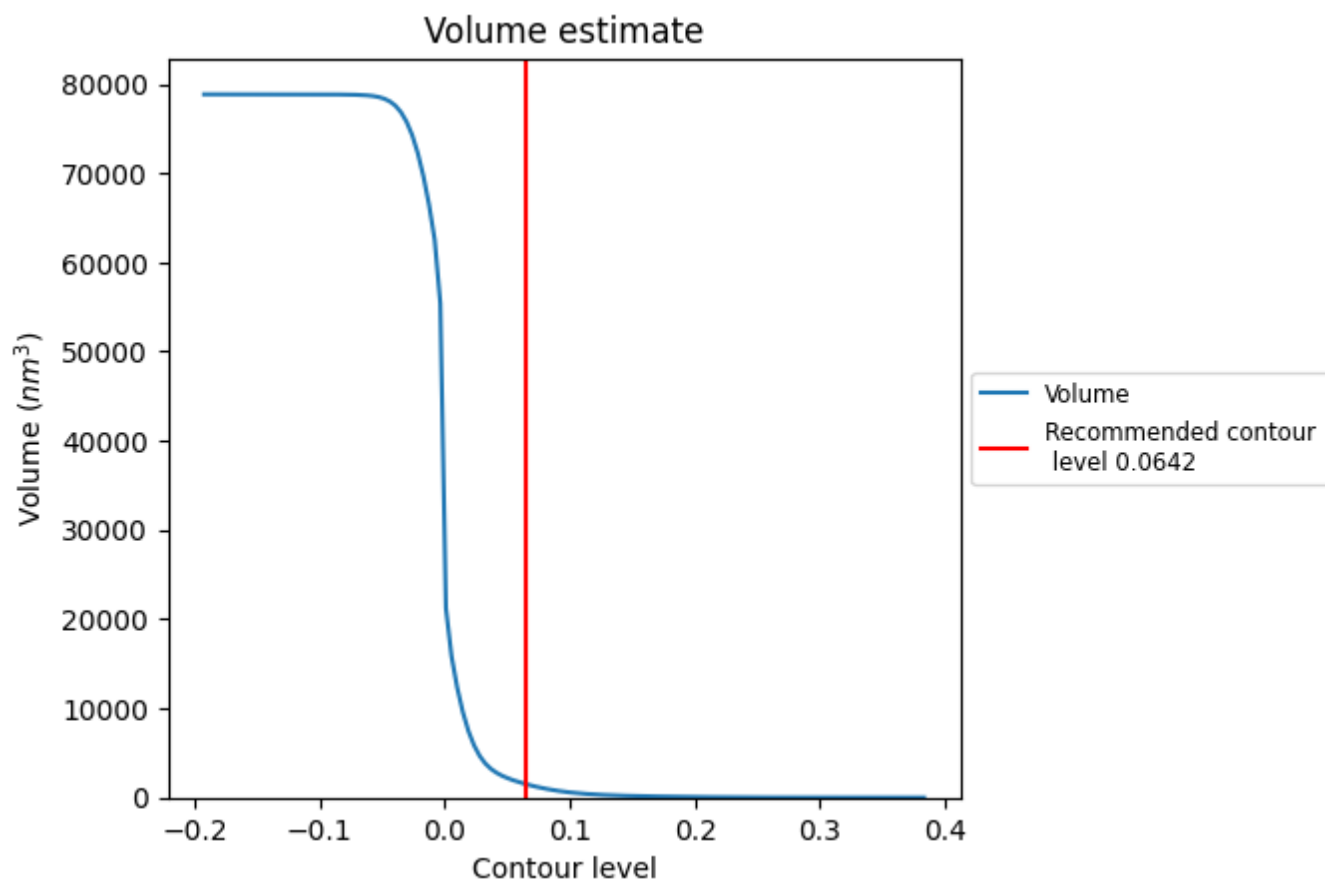
This section contains the results of statistical analysis of the map.

7.1 Map-value distribution [i](#)



The map-value distribution is plotted in 128 intervals along the x-axis. The y-axis is logarithmic. A spike in this graph at zero usually indicates that the volume has been masked.

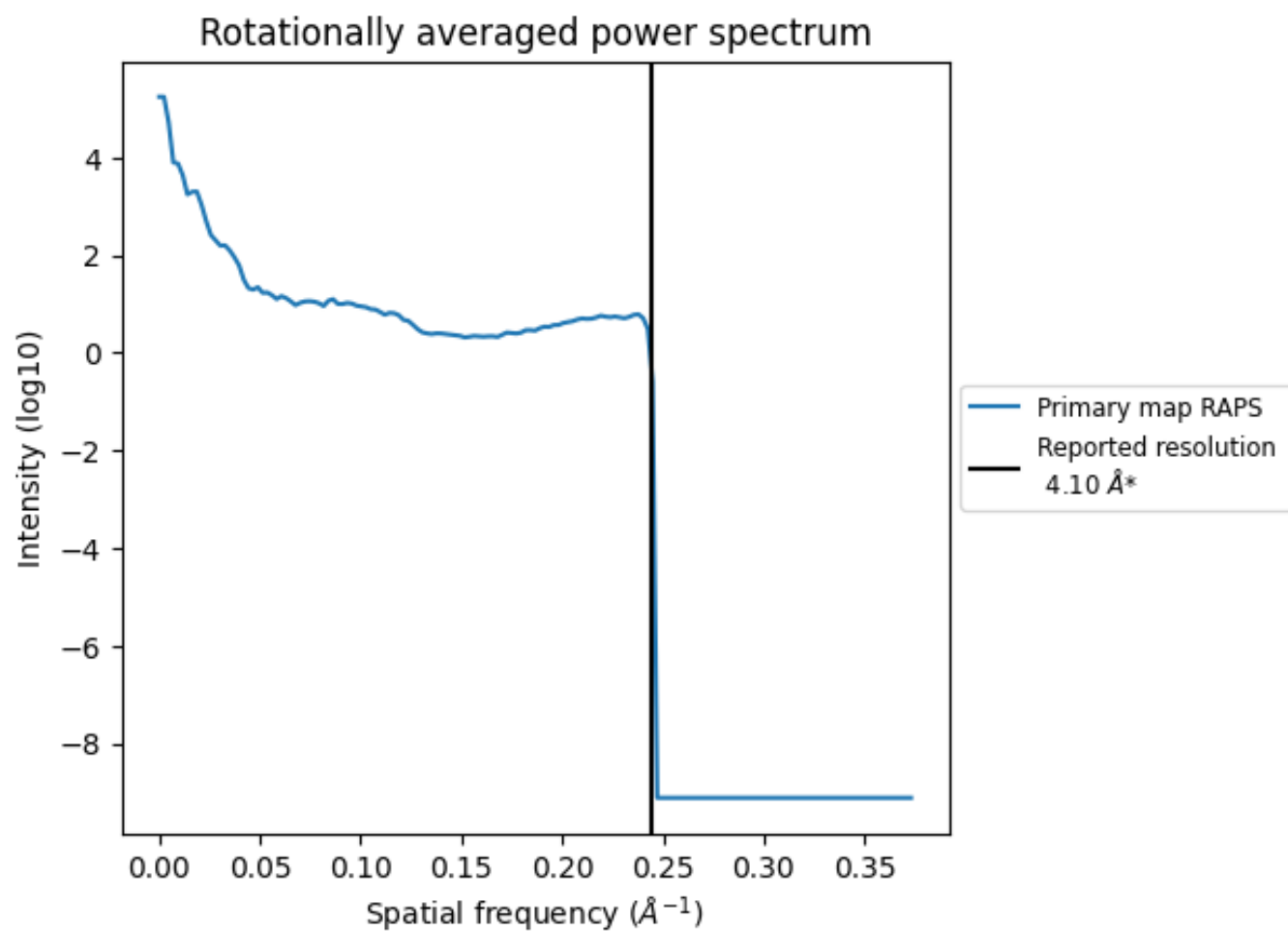
7.2 Volume estimate [i](#)



The volume at the recommended contour level is 1533 nm³; this corresponds to an approximate mass of 1385 kDa.

The volume estimate graph shows how the enclosed volume varies with the contour level. The recommended contour level is shown as a vertical line and the intersection between the line and the curve gives the volume of the enclosed surface at the given level.

7.3 Rotationally averaged power spectrum ⓘ



*Reported resolution corresponds to spatial frequency of 0.244 $\text{\AA}^{-1}$

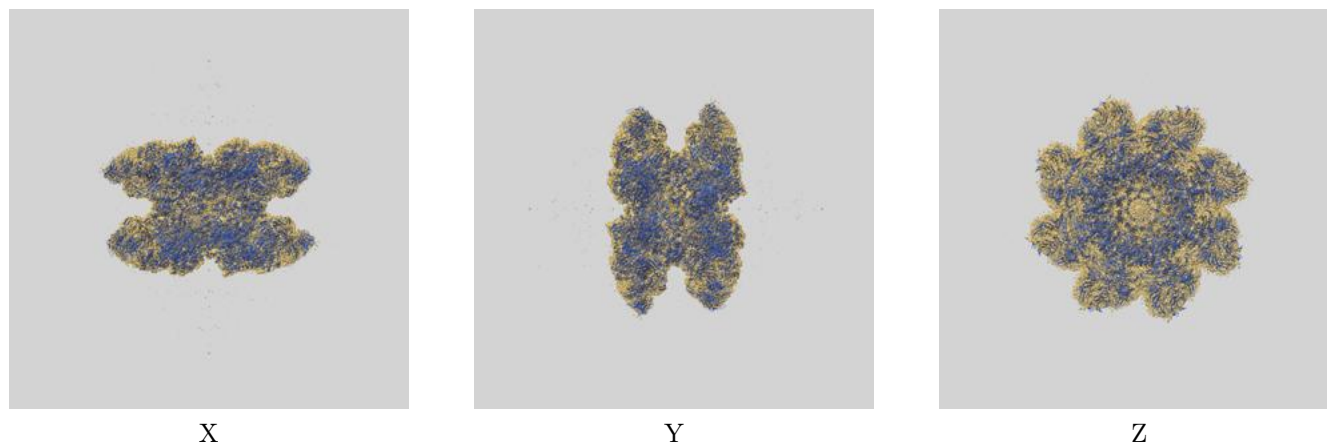
8 Fourier-Shell correlation

This section was not generated. No FSC curve or half-maps provided.

9 Map-model fit [i](#)

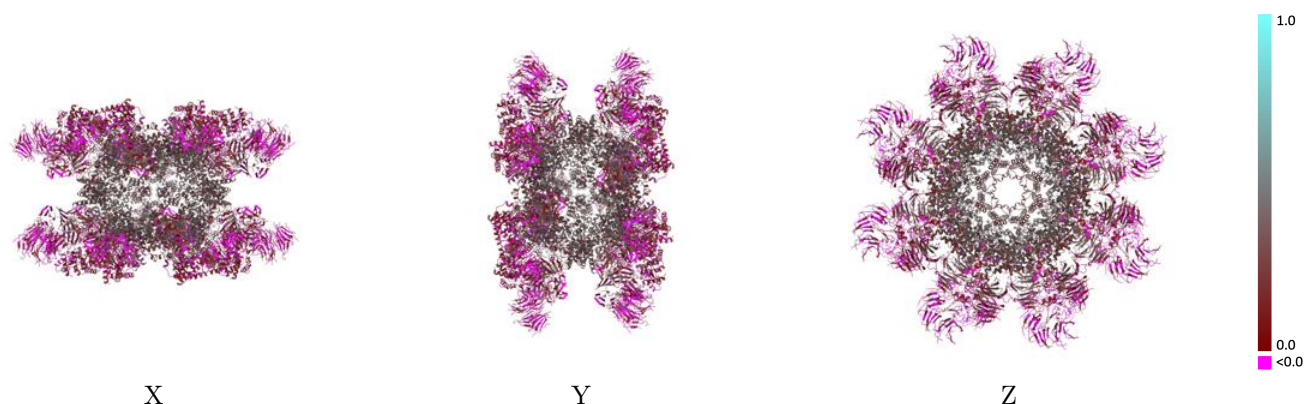
This section contains information regarding the fit between EMDB map EMD-2870 and PDB model 3J9K. Per-residue inclusion information can be found in section [3](#) on page [9](#).

9.1 Map-model overlay [i](#)



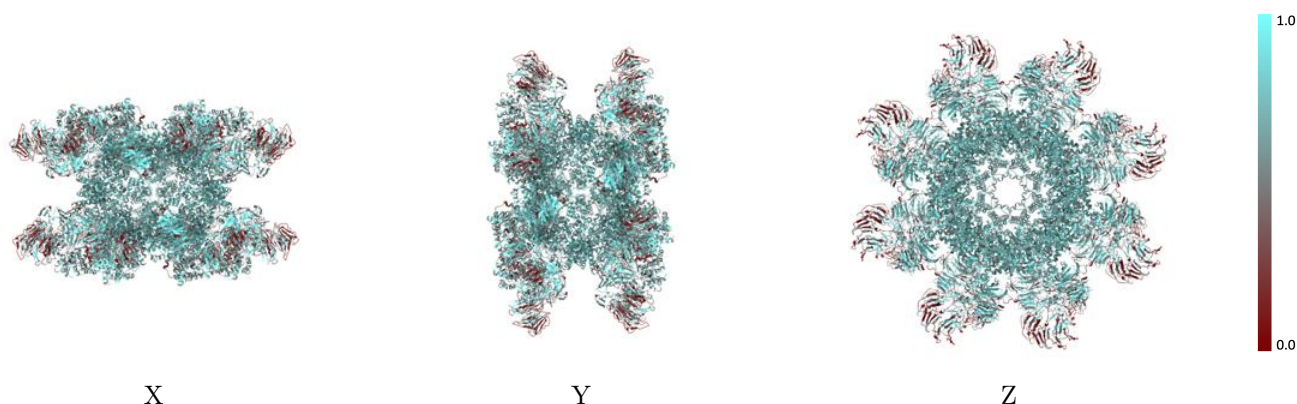
The images above show the 3D surface view of the map at the recommended contour level 0.0642 at 50% transparency in yellow overlaid with a ribbon representation of the model coloured in blue. These images allow for the visual assessment of the quality of fit between the atomic model and the map.

9.2 Q-score mapped to coordinate model [i](#)



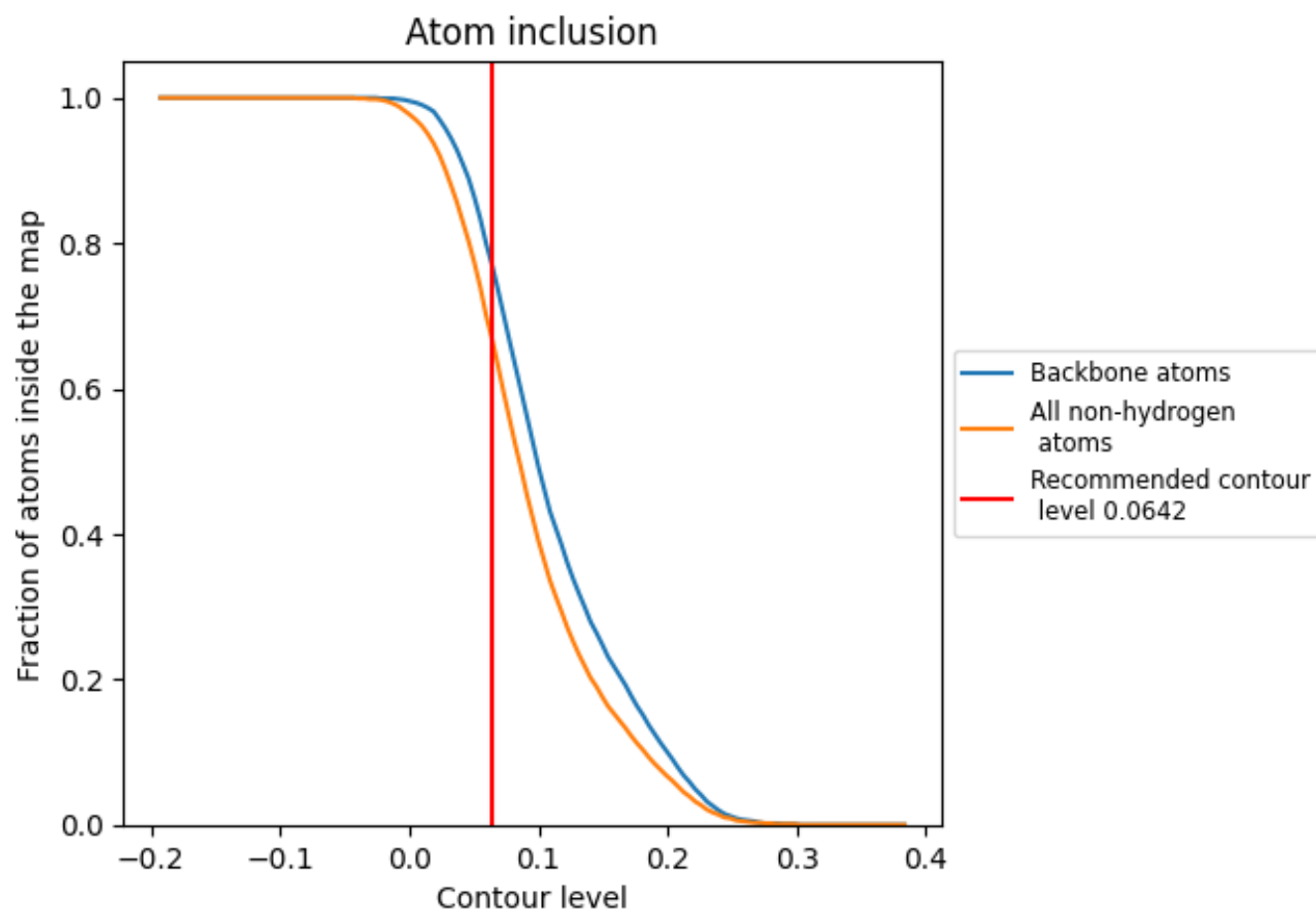
The images above show the model with each residue coloured according to its Q-score. This shows their resolvability in the map with higher Q-score values reflecting better resolvability. Please note: Q-score is calculating the resolvability of atoms, and thus high values are only expected at resolutions at which atoms can be resolved. Low Q-score values may therefore be expected for many entries.

9.3 Atom inclusion mapped to coordinate model [i](#)



The images above show the model with each residue coloured according to its atom inclusion. This shows to what extent they are inside the map at the recommended contour level (0.0642).

9.4 Atom inclusion [i](#)



At the recommended contour level, 77% of all backbone atoms, 67% of all non-hydrogen atoms, are inside the map.

9.5 Map-model fit summary ⓘ

The table lists the average atom inclusion at the recommended contour level (0.0642) and Q-score for the entire model and for each chain.

Chain	Atom inclusion	Q-score
All	 0.6670	 0.2340
A	 0.6560	 0.2210
B	 0.7540	 0.3470
C	 0.6580	 0.2220
D	 0.7480	 0.3460
E	 0.6560	 0.2210
F	 0.7540	 0.3480
G	 0.6570	 0.2210
H	 0.7480	 0.3470
I	 0.6560	 0.2200
J	 0.7540	 0.3480
K	 0.6570	 0.2200
L	 0.7480	 0.3460
M	 0.6560	 0.2200
N	 0.7540	 0.3430
O	 0.6580	 0.2200
P	 0.7480	 0.3440
Q	 0.6560	 0.2210
R	 0.7540	 0.3440
S	 0.6570	 0.2210
T	 0.7480	 0.3460
U	 0.6560	 0.2200
V	 0.7540	 0.3440
W	 0.6570	 0.2200
X	 0.7480	 0.3460
Y	 0.6560	 0.2190
Z	 0.7540	 0.3450
a	 0.6570	 0.2190
b	 0.7480	 0.3450
c	 0.6560	 0.2200
d	 0.7540	 0.3460
e	 0.6570	 0.2200
f	 0.7480	 0.3440

