Full wwPDB EM Validation Report ⓘ

Jul 10, 2024 – 07:40 am BST

PDB ID	:	7PKZ
EMDB ID	:	EMD-13483
Title	:	Vault structure in committed conformation
Authors	:	Guerra, P.; Gonzalez-Alamos, M.; Llauro, A.; Casanas, A.; Querol-Audi, J.; de Pablo, P.; Verdaguer, N.
Deposited on	:	2021-08-27
Resolution	:	9.80 Å(reported)
Based on initial model	:	4HL8

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:

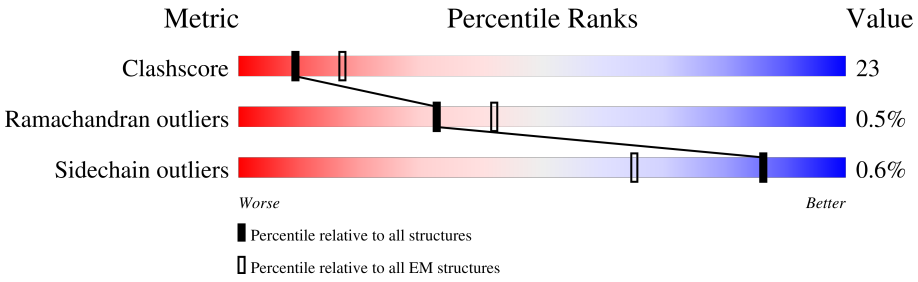
EMDB validation analysis	:	0.0.1.dev92
MolProbity	:	4.02b-467
Percentile statistics	:	20191225.v01 (using entries in the PDB archive December 25th 2019)
MapQ	:	1.9.13
Ideal geometry (proteins)	:	Engh & Huber (2001)
Ideal geometry (DNA, RNA)	:	Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP)	:	2.37.1

1 Overall quality at a glance (i)

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

The reported resolution of this entry is 9.80 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)
Clashscore	158937	4297
Ramachandran outliers	154571	4023
Sidechain outliers	154315	3826

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 <=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	861	15% 50% 39% • 9%
1	AA	861	6% 55% 34% • 9%
1	AB	861	12% 55% 34% • 9%
1	AC	861	34% 53% 37% • 9%
1	B	861	29% 53% 37% • 9%
1	BA	861	10% 54% 35% • 9%
1	BB	861	6% 53% 37% • 9%
1	C	861	9% 49% 40% • 9%

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Mol	Chain	Length	Quality of chain
1	CA	861	7% 55% 34% • 9%
1	CB	861	7% 54% 36% • 9%
1	D	861	33% 48% 42% • 9%
1	DA	861	9% 55% 34% • 9%
1	DB	861	5% 53% 36% • 9%
1	E	861	9% 51% 39% • 9%
1	EA	861	7% 55% 35% • 9%
1	EB	861	7% 53% 36% • 9%
1	F	861	29% 49% 41% • 9%
1	FA	861	8% 54% 35% • 9%
1	FB	861	5% 51% 39% • 9%
1	G	861	8% 52% 37% • 9%
1	GA	861	6% 55% 35% • 9%
1	GB	861	11% 52% 38% • 9%
1	H	861	25% 54% 36% • 9%
1	HA	861	7% 54% 36% • 9%
1	HB	861	16% 54% 35% • 9%
1	I	861	7% 53% 36% • 9%
1	IA	861	6% 52% 37% • 9%
1	IB	861	20% 55% 35% • 9%
1	J	861	22% 54% 36% • 9%
1	JA	861	5% 54% 36% • 9%
1	JB	861	22% 54% 35% • 9%
1	K	861	8% 54% 36% • 9%
1	KA	861	7% 53% 37% • 9%

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Mol	Chain	Length	Quality of chain
1	KB	861	15% 54% 35% • 9%
1	L	861	15% 53% 36% • 9%
1	LA	861	6% 55% 35% • 9%
1	LB	861	11% 52% 38% • 9%
1	M	861	8% 55% 34% • 9%
1	MA	861	7% 55% 35% • 9%
1	MB	861	18% 50% 40% • 9%
1	N	861	13% 52% 38% • 9%
1	NA	861	8% 55% 34% • 9%
1	NB	861	23% 52% 38% • 9%
1	O	861	6% 55% 35% • 9%
1	OA	861	8% 55% 35% • 9%
1	OB	861	10% 48% 42% • 9%
1	P	861	10% 53% 37% • 9%
1	PA	861	8% 54% 35% • 9%
1	PB	861	5% 50% 39% • 9%
1	Q	861	6% 55% 35% • 9%
1	QA	861	7% 54% 36% • 9%
1	QB	861	6% 54% 35% • 9%
1	R	861	8% 53% 37% • 9%
1	RA	861	6% 54% 35% • 9%
1	RB	861	7% 53% 36% • 9%
1	S	861	6% 54% 36% • 9%
1	SA	861	15% 54% 36% • 9%
1	SB	861	8% 52% 38% • 9%

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Mol	Chain	Length	Quality of chain
1	T	861	7% 53% 36% • 9%
1	TA	861	7% 54% 36% • 9%
1	TB	861	9% 53% 37% • 9%
1	UA	861	18% 55% 35% • 9%
1	UB	861	19% 52% 37% • 9%
1	V	861	7% 54% 35% • 9%
1	VA	861	7% 55% 35% • 9%
1	VB	861	14% 51% 38% • 9%
1	W	861	7% 54% 35% • 9%
1	WA	861	18% 55% 35% • 9%
1	WB	861	17% 52% 37% • 9%
1	X	861	8% 54% 36% • 9%
1	XA	861	7% 53% 37% • 9%
1	XB	861	16% 53% 36% • 9%
1	Y	861	7% 55% 35% • 9%
1	YA	861	15% 55% 34% • 9%
1	YB	861	20% 54% 36% • 9%
1	Z	861	9% 55% 34% • 9%
1	ZA	861	6% 53% 37% • 9%
1	ZB	861	32% 54% 36% • 9%

2 Entry composition

There is only 1 type of molecule in this entry. The entry contains 479700 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 Major vault protein.

Mol	Chain	Residues	Atoms					AltConf	Trace
1	A	782	Total 6150	C 3869	N 1101	O 1165	S 15	0	0
1	B	782	Total 6150	C 3869	N 1101	O 1165	S 15	0	0
1	C	782	Total 6150	C 3869	N 1101	O 1165	S 15	0	0
1	D	782	Total 6150	C 3869	N 1101	O 1165	S 15	0	0
1	E	782	Total 6150	C 3869	N 1101	O 1165	S 15	0	0
1	F	782	Total 6150	C 3869	N 1101	O 1165	S 15	0	0
1	G	782	Total 6150	C 3869	N 1101	O 1165	S 15	0	0
1	H	782	Total 6150	C 3869	N 1101	O 1165	S 15	0	0
1	I	782	Total 6150	C 3869	N 1101	O 1165	S 15	0	0
1	J	782	Total 6150	C 3869	N 1101	O 1165	S 15	0	0
1	K	782	Total 6150	C 3869	N 1101	O 1165	S 15	0	0
1	L	782	Total 6150	C 3869	N 1101	O 1165	S 15	0	0
1	M	782	Total 6150	C 3869	N 1101	O 1165	S 15	0	0
1	N	782	Total 6150	C 3869	N 1101	O 1165	S 15	0	0
1	O	782	Total 6150	C 3869	N 1101	O 1165	S 15	0	0
1	P	782	Total 6150	C 3869	N 1101	O 1165	S 15	0	0
1	Q	782	Total 6150	C 3869	N 1101	O 1165	S 15	0	0

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Mol	Chain	Residues	Atoms					AltConf	Trace
1	R	782	Total	C	N	O	S	0	0
			6150	3869	1101	1165	15		
1	S	782	Total	C	N	O	S	0	0
			6150	3869	1101	1165	15		
1	T	782	Total	C	N	O	S	0	0
			6150	3869	1101	1165	15		
1	V	782	Total	C	N	O	S	0	0
			6150	3869	1101	1165	15		
1	W	782	Total	C	N	O	S	0	0
			6150	3869	1101	1165	15		
1	X	782	Total	C	N	O	S	0	0
			6150	3869	1101	1165	15		
1	Y	782	Total	C	N	O	S	0	0
			6150	3869	1101	1165	15		
1	Z	782	Total	C	N	O	S	0	0
			6150	3869	1101	1165	15		
1	AA	782	Total	C	N	O	S	0	0
			6150	3869	1101	1165	15		
1	BA	782	Total	C	N	O	S	0	0
			6150	3869	1101	1165	15		
1	CA	782	Total	C	N	O	S	0	0
			6150	3869	1101	1165	15		
1	DA	782	Total	C	N	O	S	0	0
			6150	3869	1101	1165	15		
1	EA	782	Total	C	N	O	S	0	0
			6150	3869	1101	1165	15		
1	FA	782	Total	C	N	O	S	0	0
			6150	3869	1101	1165	15		
1	GA	782	Total	C	N	O	S	0	0
			6150	3869	1101	1165	15		
1	HA	782	Total	C	N	O	S	0	0
			6150	3869	1101	1165	15		
1	IA	782	Total	C	N	O	S	0	0
			6150	3869	1101	1165	15		
1	JA	782	Total	C	N	O	S	0	0
			6150	3869	1101	1165	15		
1	KA	782	Total	C	N	O	S	0	0
			6150	3869	1101	1165	15		
1	LA	782	Total	C	N	O	S	0	0
			6150	3869	1101	1165	15		
1	MA	782	Total	C	N	O	S	0	0
			6150	3869	1101	1165	15		

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Mol	Chain	Residues	Atoms					AltConf	Trace
1	NA	782	Total	C	N	O	S	0	0
			6150	3869	1101	1165	15		
1	OA	782	Total	C	N	O	S	0	0
			6150	3869	1101	1165	15		
1	PA	782	Total	C	N	O	S	0	0
			6150	3869	1101	1165	15		
1	QA	782	Total	C	N	O	S	0	0
			6150	3869	1101	1165	15		
1	RA	782	Total	C	N	O	S	0	0
			6150	3869	1101	1165	15		
1	SA	782	Total	C	N	O	S	0	0
			6150	3869	1101	1165	15		
1	TA	782	Total	C	N	O	S	0	0
			6150	3869	1101	1165	15		
1	UA	782	Total	C	N	O	S	0	0
			6150	3869	1101	1165	15		
1	VA	782	Total	C	N	O	S	0	0
			6150	3869	1101	1165	15		
1	WA	782	Total	C	N	O	S	0	0
			6150	3869	1101	1165	15		
1	XA	782	Total	C	N	O	S	0	0
			6150	3869	1101	1165	15		
1	YA	782	Total	C	N	O	S	0	0
			6150	3869	1101	1165	15		
1	ZA	782	Total	C	N	O	S	0	0
			6150	3869	1101	1165	15		
1	AB	782	Total	C	N	O	S	0	0
			6150	3869	1101	1165	15		
1	BB	782	Total	C	N	O	S	0	0
			6150	3869	1101	1165	15		
1	CB	782	Total	C	N	O	S	0	0
			6150	3869	1101	1165	15		
1	DB	782	Total	C	N	O	S	0	0
			6150	3869	1101	1165	15		
1	EB	782	Total	C	N	O	S	0	0
			6150	3869	1101	1165	15		
1	FB	782	Total	C	N	O	S	0	0
			6150	3869	1101	1165	15		
1	GB	782	Total	C	N	O	S	0	0
			6150	3869	1101	1165	15		
1	HB	782	Total	C	N	O	S	0	0
			6150	3869	1101	1165	15		

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Mol	Chain	Residues	Atoms					AltConf	Trace
1	IB	782	Total 6150	C 3869	N 1101	O 1165	S 15	0	0
1	JB	782	Total 6150	C 3869	N 1101	O 1165	S 15	0	0
1	KB	782	Total 6150	C 3869	N 1101	O 1165	S 15	0	0
1	LB	782	Total 6150	C 3869	N 1101	O 1165	S 15	0	0
1	MB	782	Total 6150	C 3869	N 1101	O 1165	S 15	0	0
1	NB	782	Total 6150	C 3869	N 1101	O 1165	S 15	0	0
1	OB	782	Total 6150	C 3869	N 1101	O 1165	S 15	0	0
1	PB	782	Total 6150	C 3869	N 1101	O 1165	S 15	0	0
1	QB	782	Total 6150	C 3869	N 1101	O 1165	S 15	0	0
1	RB	782	Total 6150	C 3869	N 1101	O 1165	S 15	0	0
1	SB	782	Total 6150	C 3869	N 1101	O 1165	S 15	0	0
1	TB	782	Total 6150	C 3869	N 1101	O 1165	S 15	0	0
1	UB	782	Total 6150	C 3869	N 1101	O 1165	S 15	0	0
1	VB	782	Total 6150	C 3869	N 1101	O 1165	S 15	0	0
1	WB	782	Total 6150	C 3869	N 1101	O 1165	S 15	0	0
1	XB	782	Total 6150	C 3869	N 1101	O 1165	S 15	0	0
1	YB	782	Total 6150	C 3869	N 1101	O 1165	S 15	0	0
1	ZB	782	Total 6150	C 3869	N 1101	O 1165	S 15	0	0
1	AC	782	Total 6150	C 3869	N 1101	O 1165	S 15	0	0

There are 624 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
A	69	ALA	THR	conflict	UNP Q62667

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Chain	Residue	Modelled	Actual	Comment	Reference
A	77	VAL	ILE	conflict	UNP Q62667
A	104	LEU	VAL	conflict	UNP Q62667
A	186	ASP	GLU	conflict	UNP Q62667
A	189	GLU	GLY	conflict	UNP Q62667
A	232	ARG	LEU	conflict	UNP Q62667
A	236	LYS	ARG	conflict	UNP Q62667
A	242	ALA	LEU	conflict	UNP Q62667
B	69	ALA	THR	conflict	UNP Q62667
B	77	VAL	ILE	conflict	UNP Q62667
B	104	LEU	VAL	conflict	UNP Q62667
B	186	ASP	GLU	conflict	UNP Q62667
B	189	GLU	GLY	conflict	UNP Q62667
B	232	ARG	LEU	conflict	UNP Q62667
B	236	LYS	ARG	conflict	UNP Q62667
B	242	ALA	LEU	conflict	UNP Q62667
C	69	ALA	THR	conflict	UNP Q62667
C	77	VAL	ILE	conflict	UNP Q62667
C	104	LEU	VAL	conflict	UNP Q62667
C	186	ASP	GLU	conflict	UNP Q62667
C	189	GLU	GLY	conflict	UNP Q62667
C	232	ARG	LEU	conflict	UNP Q62667
C	236	LYS	ARG	conflict	UNP Q62667
C	242	ALA	LEU	conflict	UNP Q62667
D	69	ALA	THR	conflict	UNP Q62667
D	77	VAL	ILE	conflict	UNP Q62667
D	104	LEU	VAL	conflict	UNP Q62667
D	186	ASP	GLU	conflict	UNP Q62667
D	189	GLU	GLY	conflict	UNP Q62667
D	232	ARG	LEU	conflict	UNP Q62667
D	236	LYS	ARG	conflict	UNP Q62667
D	242	ALA	LEU	conflict	UNP Q62667
E	69	ALA	THR	conflict	UNP Q62667
E	77	VAL	ILE	conflict	UNP Q62667
E	104	LEU	VAL	conflict	UNP Q62667
E	186	ASP	GLU	conflict	UNP Q62667
E	189	GLU	GLY	conflict	UNP Q62667
E	232	ARG	LEU	conflict	UNP Q62667
E	236	LYS	ARG	conflict	UNP Q62667
E	242	ALA	LEU	conflict	UNP Q62667
F	69	ALA	THR	conflict	UNP Q62667
F	77	VAL	ILE	conflict	UNP Q62667
F	104	LEU	VAL	conflict	UNP Q62667

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Chain	Residue	Modelled	Actual	Comment	Reference
F	186	ASP	GLU	conflict	UNP Q62667
F	189	GLU	GLY	conflict	UNP Q62667
F	232	ARG	LEU	conflict	UNP Q62667
F	236	LYS	ARG	conflict	UNP Q62667
F	242	ALA	LEU	conflict	UNP Q62667
G	69	ALA	THR	conflict	UNP Q62667
G	77	VAL	ILE	conflict	UNP Q62667
G	104	LEU	VAL	conflict	UNP Q62667
G	186	ASP	GLU	conflict	UNP Q62667
G	189	GLU	GLY	conflict	UNP Q62667
G	232	ARG	LEU	conflict	UNP Q62667
G	236	LYS	ARG	conflict	UNP Q62667
G	242	ALA	LEU	conflict	UNP Q62667
H	69	ALA	THR	conflict	UNP Q62667
H	77	VAL	ILE	conflict	UNP Q62667
H	104	LEU	VAL	conflict	UNP Q62667
H	186	ASP	GLU	conflict	UNP Q62667
H	189	GLU	GLY	conflict	UNP Q62667
H	232	ARG	LEU	conflict	UNP Q62667
H	236	LYS	ARG	conflict	UNP Q62667
H	242	ALA	LEU	conflict	UNP Q62667
I	69	ALA	THR	conflict	UNP Q62667
I	77	VAL	ILE	conflict	UNP Q62667
I	104	LEU	VAL	conflict	UNP Q62667
I	186	ASP	GLU	conflict	UNP Q62667
I	189	GLU	GLY	conflict	UNP Q62667
I	232	ARG	LEU	conflict	UNP Q62667
I	236	LYS	ARG	conflict	UNP Q62667
I	242	ALA	LEU	conflict	UNP Q62667
J	69	ALA	THR	conflict	UNP Q62667
J	77	VAL	ILE	conflict	UNP Q62667
J	104	LEU	VAL	conflict	UNP Q62667
J	186	ASP	GLU	conflict	UNP Q62667
J	189	GLU	GLY	conflict	UNP Q62667
J	232	ARG	LEU	conflict	UNP Q62667
J	236	LYS	ARG	conflict	UNP Q62667
J	242	ALA	LEU	conflict	UNP Q62667
K	69	ALA	THR	conflict	UNP Q62667
K	77	VAL	ILE	conflict	UNP Q62667
K	104	LEU	VAL	conflict	UNP Q62667
K	186	ASP	GLU	conflict	UNP Q62667
K	189	GLU	GLY	conflict	UNP Q62667

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Chain	Residue	Modelled	Actual	Comment	Reference
K	232	ARG	LEU	conflict	UNP Q62667
K	236	LYS	ARG	conflict	UNP Q62667
K	242	ALA	LEU	conflict	UNP Q62667
L	69	ALA	THR	conflict	UNP Q62667
L	77	VAL	ILE	conflict	UNP Q62667
L	104	LEU	VAL	conflict	UNP Q62667
L	186	ASP	GLU	conflict	UNP Q62667
L	189	GLU	GLY	conflict	UNP Q62667
L	232	ARG	LEU	conflict	UNP Q62667
L	236	LYS	ARG	conflict	UNP Q62667
L	242	ALA	LEU	conflict	UNP Q62667
M	69	ALA	THR	conflict	UNP Q62667
M	77	VAL	ILE	conflict	UNP Q62667
M	104	LEU	VAL	conflict	UNP Q62667
M	186	ASP	GLU	conflict	UNP Q62667
M	189	GLU	GLY	conflict	UNP Q62667
M	232	ARG	LEU	conflict	UNP Q62667
M	236	LYS	ARG	conflict	UNP Q62667
M	242	ALA	LEU	conflict	UNP Q62667
N	69	ALA	THR	conflict	UNP Q62667
N	77	VAL	ILE	conflict	UNP Q62667
N	104	LEU	VAL	conflict	UNP Q62667
N	186	ASP	GLU	conflict	UNP Q62667
N	189	GLU	GLY	conflict	UNP Q62667
N	232	ARG	LEU	conflict	UNP Q62667
N	236	LYS	ARG	conflict	UNP Q62667
N	242	ALA	LEU	conflict	UNP Q62667
O	69	ALA	THR	conflict	UNP Q62667
O	77	VAL	ILE	conflict	UNP Q62667
O	104	LEU	VAL	conflict	UNP Q62667
O	186	ASP	GLU	conflict	UNP Q62667
O	189	GLU	GLY	conflict	UNP Q62667
O	232	ARG	LEU	conflict	UNP Q62667
O	236	LYS	ARG	conflict	UNP Q62667
O	242	ALA	LEU	conflict	UNP Q62667
P	69	ALA	THR	conflict	UNP Q62667
P	77	VAL	ILE	conflict	UNP Q62667
P	104	LEU	VAL	conflict	UNP Q62667
P	186	ASP	GLU	conflict	UNP Q62667
P	189	GLU	GLY	conflict	UNP Q62667
P	232	ARG	LEU	conflict	UNP Q62667
P	236	LYS	ARG	conflict	UNP Q62667

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Chain	Residue	Modelled	Actual	Comment	Reference
P	242	ALA	LEU	conflict	UNP Q62667
Q	69	ALA	THR	conflict	UNP Q62667
Q	77	VAL	ILE	conflict	UNP Q62667
Q	104	LEU	VAL	conflict	UNP Q62667
Q	186	ASP	GLU	conflict	UNP Q62667
Q	189	GLU	GLY	conflict	UNP Q62667
Q	232	ARG	LEU	conflict	UNP Q62667
Q	236	LYS	ARG	conflict	UNP Q62667
Q	242	ALA	LEU	conflict	UNP Q62667
R	69	ALA	THR	conflict	UNP Q62667
R	77	VAL	ILE	conflict	UNP Q62667
R	104	LEU	VAL	conflict	UNP Q62667
R	186	ASP	GLU	conflict	UNP Q62667
R	189	GLU	GLY	conflict	UNP Q62667
R	232	ARG	LEU	conflict	UNP Q62667
R	236	LYS	ARG	conflict	UNP Q62667
R	242	ALA	LEU	conflict	UNP Q62667
S	69	ALA	THR	conflict	UNP Q62667
S	77	VAL	ILE	conflict	UNP Q62667
S	104	LEU	VAL	conflict	UNP Q62667
S	186	ASP	GLU	conflict	UNP Q62667
S	189	GLU	GLY	conflict	UNP Q62667
S	232	ARG	LEU	conflict	UNP Q62667
S	236	LYS	ARG	conflict	UNP Q62667
S	242	ALA	LEU	conflict	UNP Q62667
T	69	ALA	THR	conflict	UNP Q62667
T	77	VAL	ILE	conflict	UNP Q62667
T	104	LEU	VAL	conflict	UNP Q62667
T	186	ASP	GLU	conflict	UNP Q62667
T	189	GLU	GLY	conflict	UNP Q62667
T	232	ARG	LEU	conflict	UNP Q62667
T	236	LYS	ARG	conflict	UNP Q62667
T	242	ALA	LEU	conflict	UNP Q62667
V	69	ALA	THR	conflict	UNP Q62667
V	77	VAL	ILE	conflict	UNP Q62667
V	104	LEU	VAL	conflict	UNP Q62667
V	186	ASP	GLU	conflict	UNP Q62667
V	189	GLU	GLY	conflict	UNP Q62667
V	232	ARG	LEU	conflict	UNP Q62667
V	236	LYS	ARG	conflict	UNP Q62667
V	242	ALA	LEU	conflict	UNP Q62667
W	69	ALA	THR	conflict	UNP Q62667

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Chain	Residue	Modelled	Actual	Comment	Reference
W	77	VAL	ILE	conflict	UNP Q62667
W	104	LEU	VAL	conflict	UNP Q62667
W	186	ASP	GLU	conflict	UNP Q62667
W	189	GLU	GLY	conflict	UNP Q62667
W	232	ARG	LEU	conflict	UNP Q62667
W	236	LYS	ARG	conflict	UNP Q62667
W	242	ALA	LEU	conflict	UNP Q62667
X	69	ALA	THR	conflict	UNP Q62667
X	77	VAL	ILE	conflict	UNP Q62667
X	104	LEU	VAL	conflict	UNP Q62667
X	186	ASP	GLU	conflict	UNP Q62667
X	189	GLU	GLY	conflict	UNP Q62667
X	232	ARG	LEU	conflict	UNP Q62667
X	236	LYS	ARG	conflict	UNP Q62667
X	242	ALA	LEU	conflict	UNP Q62667
Y	69	ALA	THR	conflict	UNP Q62667
Y	77	VAL	ILE	conflict	UNP Q62667
Y	104	LEU	VAL	conflict	UNP Q62667
Y	186	ASP	GLU	conflict	UNP Q62667
Y	189	GLU	GLY	conflict	UNP Q62667
Y	232	ARG	LEU	conflict	UNP Q62667
Y	236	LYS	ARG	conflict	UNP Q62667
Y	242	ALA	LEU	conflict	UNP Q62667
Z	69	ALA	THR	conflict	UNP Q62667
Z	77	VAL	ILE	conflict	UNP Q62667
Z	104	LEU	VAL	conflict	UNP Q62667
Z	186	ASP	GLU	conflict	UNP Q62667
Z	189	GLU	GLY	conflict	UNP Q62667
Z	232	ARG	LEU	conflict	UNP Q62667
Z	236	LYS	ARG	conflict	UNP Q62667
Z	242	ALA	LEU	conflict	UNP Q62667
AA	69	ALA	THR	conflict	UNP Q62667
AA	77	VAL	ILE	conflict	UNP Q62667
AA	104	LEU	VAL	conflict	UNP Q62667
AA	186	ASP	GLU	conflict	UNP Q62667
AA	189	GLU	GLY	conflict	UNP Q62667
AA	232	ARG	LEU	conflict	UNP Q62667
AA	236	LYS	ARG	conflict	UNP Q62667
AA	242	ALA	LEU	conflict	UNP Q62667
BA	69	ALA	THR	conflict	UNP Q62667
BA	77	VAL	ILE	conflict	UNP Q62667
BA	104	LEU	VAL	conflict	UNP Q62667

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Chain	Residue	Modelled	Actual	Comment	Reference
BA	186	ASP	GLU	conflict	UNP Q62667
BA	189	GLU	GLY	conflict	UNP Q62667
BA	232	ARG	LEU	conflict	UNP Q62667
BA	236	LYS	ARG	conflict	UNP Q62667
BA	242	ALA	LEU	conflict	UNP Q62667
CA	69	ALA	THR	conflict	UNP Q62667
CA	77	VAL	ILE	conflict	UNP Q62667
CA	104	LEU	VAL	conflict	UNP Q62667
CA	186	ASP	GLU	conflict	UNP Q62667
CA	189	GLU	GLY	conflict	UNP Q62667
CA	232	ARG	LEU	conflict	UNP Q62667
CA	236	LYS	ARG	conflict	UNP Q62667
CA	242	ALA	LEU	conflict	UNP Q62667
DA	69	ALA	THR	conflict	UNP Q62667
DA	77	VAL	ILE	conflict	UNP Q62667
DA	104	LEU	VAL	conflict	UNP Q62667
DA	186	ASP	GLU	conflict	UNP Q62667
DA	189	GLU	GLY	conflict	UNP Q62667
DA	232	ARG	LEU	conflict	UNP Q62667
DA	236	LYS	ARG	conflict	UNP Q62667
DA	242	ALA	LEU	conflict	UNP Q62667
EA	69	ALA	THR	conflict	UNP Q62667
EA	77	VAL	ILE	conflict	UNP Q62667
EA	104	LEU	VAL	conflict	UNP Q62667
EA	186	ASP	GLU	conflict	UNP Q62667
EA	189	GLU	GLY	conflict	UNP Q62667
EA	232	ARG	LEU	conflict	UNP Q62667
EA	236	LYS	ARG	conflict	UNP Q62667
EA	242	ALA	LEU	conflict	UNP Q62667
FA	69	ALA	THR	conflict	UNP Q62667
FA	77	VAL	ILE	conflict	UNP Q62667
FA	104	LEU	VAL	conflict	UNP Q62667
FA	186	ASP	GLU	conflict	UNP Q62667
FA	189	GLU	GLY	conflict	UNP Q62667
FA	232	ARG	LEU	conflict	UNP Q62667
FA	236	LYS	ARG	conflict	UNP Q62667
FA	242	ALA	LEU	conflict	UNP Q62667
GA	69	ALA	THR	conflict	UNP Q62667
GA	77	VAL	ILE	conflict	UNP Q62667
GA	104	LEU	VAL	conflict	UNP Q62667
GA	186	ASP	GLU	conflict	UNP Q62667
GA	189	GLU	GLY	conflict	UNP Q62667

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Chain	Residue	Modelled	Actual	Comment	Reference
GA	232	ARG	LEU	conflict	UNP Q62667
GA	236	LYS	ARG	conflict	UNP Q62667
GA	242	ALA	LEU	conflict	UNP Q62667
HA	69	ALA	THR	conflict	UNP Q62667
HA	77	VAL	ILE	conflict	UNP Q62667
HA	104	LEU	VAL	conflict	UNP Q62667
HA	186	ASP	GLU	conflict	UNP Q62667
HA	189	GLU	GLY	conflict	UNP Q62667
HA	232	ARG	LEU	conflict	UNP Q62667
HA	236	LYS	ARG	conflict	UNP Q62667
HA	242	ALA	LEU	conflict	UNP Q62667
IA	69	ALA	THR	conflict	UNP Q62667
IA	77	VAL	ILE	conflict	UNP Q62667
IA	104	LEU	VAL	conflict	UNP Q62667
IA	186	ASP	GLU	conflict	UNP Q62667
IA	189	GLU	GLY	conflict	UNP Q62667
IA	232	ARG	LEU	conflict	UNP Q62667
IA	236	LYS	ARG	conflict	UNP Q62667
IA	242	ALA	LEU	conflict	UNP Q62667
JA	69	ALA	THR	conflict	UNP Q62667
JA	77	VAL	ILE	conflict	UNP Q62667
JA	104	LEU	VAL	conflict	UNP Q62667
JA	186	ASP	GLU	conflict	UNP Q62667
JA	189	GLU	GLY	conflict	UNP Q62667
JA	232	ARG	LEU	conflict	UNP Q62667
JA	236	LYS	ARG	conflict	UNP Q62667
JA	242	ALA	LEU	conflict	UNP Q62667
KA	69	ALA	THR	conflict	UNP Q62667
KA	77	VAL	ILE	conflict	UNP Q62667
KA	104	LEU	VAL	conflict	UNP Q62667
KA	186	ASP	GLU	conflict	UNP Q62667
KA	189	GLU	GLY	conflict	UNP Q62667
KA	232	ARG	LEU	conflict	UNP Q62667
KA	236	LYS	ARG	conflict	UNP Q62667
KA	242	ALA	LEU	conflict	UNP Q62667
LA	69	ALA	THR	conflict	UNP Q62667
LA	77	VAL	ILE	conflict	UNP Q62667
LA	104	LEU	VAL	conflict	UNP Q62667
LA	186	ASP	GLU	conflict	UNP Q62667
LA	189	GLU	GLY	conflict	UNP Q62667
LA	232	ARG	LEU	conflict	UNP Q62667
LA	236	LYS	ARG	conflict	UNP Q62667

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Chain	Residue	Modelled	Actual	Comment	Reference
LA	242	ALA	LEU	conflict	UNP Q62667
MA	69	ALA	THR	conflict	UNP Q62667
MA	77	VAL	ILE	conflict	UNP Q62667
MA	104	LEU	VAL	conflict	UNP Q62667
MA	186	ASP	GLU	conflict	UNP Q62667
MA	189	GLU	GLY	conflict	UNP Q62667
MA	232	ARG	LEU	conflict	UNP Q62667
MA	236	LYS	ARG	conflict	UNP Q62667
MA	242	ALA	LEU	conflict	UNP Q62667
NA	69	ALA	THR	conflict	UNP Q62667
NA	77	VAL	ILE	conflict	UNP Q62667
NA	104	LEU	VAL	conflict	UNP Q62667
NA	186	ASP	GLU	conflict	UNP Q62667
NA	189	GLU	GLY	conflict	UNP Q62667
NA	232	ARG	LEU	conflict	UNP Q62667
NA	236	LYS	ARG	conflict	UNP Q62667
NA	242	ALA	LEU	conflict	UNP Q62667
OA	69	ALA	THR	conflict	UNP Q62667
OA	77	VAL	ILE	conflict	UNP Q62667
OA	104	LEU	VAL	conflict	UNP Q62667
OA	186	ASP	GLU	conflict	UNP Q62667
OA	189	GLU	GLY	conflict	UNP Q62667
OA	232	ARG	LEU	conflict	UNP Q62667
OA	236	LYS	ARG	conflict	UNP Q62667
OA	242	ALA	LEU	conflict	UNP Q62667
PA	69	ALA	THR	conflict	UNP Q62667
PA	77	VAL	ILE	conflict	UNP Q62667
PA	104	LEU	VAL	conflict	UNP Q62667
PA	186	ASP	GLU	conflict	UNP Q62667
PA	189	GLU	GLY	conflict	UNP Q62667
PA	232	ARG	LEU	conflict	UNP Q62667
PA	236	LYS	ARG	conflict	UNP Q62667
PA	242	ALA	LEU	conflict	UNP Q62667
QA	69	ALA	THR	conflict	UNP Q62667
QA	77	VAL	ILE	conflict	UNP Q62667
QA	104	LEU	VAL	conflict	UNP Q62667
QA	186	ASP	GLU	conflict	UNP Q62667
QA	189	GLU	GLY	conflict	UNP Q62667
QA	232	ARG	LEU	conflict	UNP Q62667
QA	236	LYS	ARG	conflict	UNP Q62667
QA	242	ALA	LEU	conflict	UNP Q62667
RA	69	ALA	THR	conflict	UNP Q62667

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Chain	Residue	Modelled	Actual	Comment	Reference
RA	77	VAL	ILE	conflict	UNP Q62667
RA	104	LEU	VAL	conflict	UNP Q62667
RA	186	ASP	GLU	conflict	UNP Q62667
RA	189	GLU	GLY	conflict	UNP Q62667
RA	232	ARG	LEU	conflict	UNP Q62667
RA	236	LYS	ARG	conflict	UNP Q62667
RA	242	ALA	LEU	conflict	UNP Q62667
SA	69	ALA	THR	conflict	UNP Q62667
SA	77	VAL	ILE	conflict	UNP Q62667
SA	104	LEU	VAL	conflict	UNP Q62667
SA	186	ASP	GLU	conflict	UNP Q62667
SA	189	GLU	GLY	conflict	UNP Q62667
SA	232	ARG	LEU	conflict	UNP Q62667
SA	236	LYS	ARG	conflict	UNP Q62667
SA	242	ALA	LEU	conflict	UNP Q62667
TA	69	ALA	THR	conflict	UNP Q62667
TA	77	VAL	ILE	conflict	UNP Q62667
TA	104	LEU	VAL	conflict	UNP Q62667
TA	186	ASP	GLU	conflict	UNP Q62667
TA	189	GLU	GLY	conflict	UNP Q62667
TA	232	ARG	LEU	conflict	UNP Q62667
TA	236	LYS	ARG	conflict	UNP Q62667
TA	242	ALA	LEU	conflict	UNP Q62667
UA	69	ALA	THR	conflict	UNP Q62667
UA	77	VAL	ILE	conflict	UNP Q62667
UA	104	LEU	VAL	conflict	UNP Q62667
UA	186	ASP	GLU	conflict	UNP Q62667
UA	189	GLU	GLY	conflict	UNP Q62667
UA	232	ARG	LEU	conflict	UNP Q62667
UA	236	LYS	ARG	conflict	UNP Q62667
UA	242	ALA	LEU	conflict	UNP Q62667
VA	69	ALA	THR	conflict	UNP Q62667
VA	77	VAL	ILE	conflict	UNP Q62667
VA	104	LEU	VAL	conflict	UNP Q62667
VA	186	ASP	GLU	conflict	UNP Q62667
VA	189	GLU	GLY	conflict	UNP Q62667
VA	232	ARG	LEU	conflict	UNP Q62667
VA	236	LYS	ARG	conflict	UNP Q62667
VA	242	ALA	LEU	conflict	UNP Q62667
WA	69	ALA	THR	conflict	UNP Q62667
WA	77	VAL	ILE	conflict	UNP Q62667
WA	104	LEU	VAL	conflict	UNP Q62667

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Chain	Residue	Modelled	Actual	Comment	Reference
WA	186	ASP	GLU	conflict	UNP Q62667
WA	189	GLU	GLY	conflict	UNP Q62667
WA	232	ARG	LEU	conflict	UNP Q62667
WA	236	LYS	ARG	conflict	UNP Q62667
WA	242	ALA	LEU	conflict	UNP Q62667
XA	69	ALA	THR	conflict	UNP Q62667
XA	77	VAL	ILE	conflict	UNP Q62667
XA	104	LEU	VAL	conflict	UNP Q62667
XA	186	ASP	GLU	conflict	UNP Q62667
XA	189	GLU	GLY	conflict	UNP Q62667
XA	232	ARG	LEU	conflict	UNP Q62667
XA	236	LYS	ARG	conflict	UNP Q62667
XA	242	ALA	LEU	conflict	UNP Q62667
YA	69	ALA	THR	conflict	UNP Q62667
YA	77	VAL	ILE	conflict	UNP Q62667
YA	104	LEU	VAL	conflict	UNP Q62667
YA	186	ASP	GLU	conflict	UNP Q62667
YA	189	GLU	GLY	conflict	UNP Q62667
YA	232	ARG	LEU	conflict	UNP Q62667
YA	236	LYS	ARG	conflict	UNP Q62667
YA	242	ALA	LEU	conflict	UNP Q62667
ZA	69	ALA	THR	conflict	UNP Q62667
ZA	77	VAL	ILE	conflict	UNP Q62667
ZA	104	LEU	VAL	conflict	UNP Q62667
ZA	186	ASP	GLU	conflict	UNP Q62667
ZA	189	GLU	GLY	conflict	UNP Q62667
ZA	232	ARG	LEU	conflict	UNP Q62667
ZA	236	LYS	ARG	conflict	UNP Q62667
ZA	242	ALA	LEU	conflict	UNP Q62667
AB	69	ALA	THR	conflict	UNP Q62667
AB	77	VAL	ILE	conflict	UNP Q62667
AB	104	LEU	VAL	conflict	UNP Q62667
AB	186	ASP	GLU	conflict	UNP Q62667
AB	189	GLU	GLY	conflict	UNP Q62667
AB	232	ARG	LEU	conflict	UNP Q62667
AB	236	LYS	ARG	conflict	UNP Q62667
AB	242	ALA	LEU	conflict	UNP Q62667
BB	69	ALA	THR	conflict	UNP Q62667
BB	77	VAL	ILE	conflict	UNP Q62667
BB	104	LEU	VAL	conflict	UNP Q62667
BB	186	ASP	GLU	conflict	UNP Q62667
BB	189	GLU	GLY	conflict	UNP Q62667

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Chain	Residue	Modelled	Actual	Comment	Reference
BB	232	ARG	LEU	conflict	UNP Q62667
BB	236	LYS	ARG	conflict	UNP Q62667
BB	242	ALA	LEU	conflict	UNP Q62667
CB	69	ALA	THR	conflict	UNP Q62667
CB	77	VAL	ILE	conflict	UNP Q62667
CB	104	LEU	VAL	conflict	UNP Q62667
CB	186	ASP	GLU	conflict	UNP Q62667
CB	189	GLU	GLY	conflict	UNP Q62667
CB	232	ARG	LEU	conflict	UNP Q62667
CB	236	LYS	ARG	conflict	UNP Q62667
CB	242	ALA	LEU	conflict	UNP Q62667
DB	69	ALA	THR	conflict	UNP Q62667
DB	77	VAL	ILE	conflict	UNP Q62667
DB	104	LEU	VAL	conflict	UNP Q62667
DB	186	ASP	GLU	conflict	UNP Q62667
DB	189	GLU	GLY	conflict	UNP Q62667
DB	232	ARG	LEU	conflict	UNP Q62667
DB	236	LYS	ARG	conflict	UNP Q62667
DB	242	ALA	LEU	conflict	UNP Q62667
EB	69	ALA	THR	conflict	UNP Q62667
EB	77	VAL	ILE	conflict	UNP Q62667
EB	104	LEU	VAL	conflict	UNP Q62667
EB	186	ASP	GLU	conflict	UNP Q62667
EB	189	GLU	GLY	conflict	UNP Q62667
EB	232	ARG	LEU	conflict	UNP Q62667
EB	236	LYS	ARG	conflict	UNP Q62667
EB	242	ALA	LEU	conflict	UNP Q62667
FB	69	ALA	THR	conflict	UNP Q62667
FB	77	VAL	ILE	conflict	UNP Q62667
FB	104	LEU	VAL	conflict	UNP Q62667
FB	186	ASP	GLU	conflict	UNP Q62667
FB	189	GLU	GLY	conflict	UNP Q62667
FB	232	ARG	LEU	conflict	UNP Q62667
FB	236	LYS	ARG	conflict	UNP Q62667
FB	242	ALA	LEU	conflict	UNP Q62667
GB	69	ALA	THR	conflict	UNP Q62667
GB	77	VAL	ILE	conflict	UNP Q62667
GB	104	LEU	VAL	conflict	UNP Q62667
GB	186	ASP	GLU	conflict	UNP Q62667
GB	189	GLU	GLY	conflict	UNP Q62667
GB	232	ARG	LEU	conflict	UNP Q62667
GB	236	LYS	ARG	conflict	UNP Q62667

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Chain	Residue	Modelled	Actual	Comment	Reference
GB	242	ALA	LEU	conflict	UNP Q62667
HB	69	ALA	THR	conflict	UNP Q62667
HB	77	VAL	ILE	conflict	UNP Q62667
HB	104	LEU	VAL	conflict	UNP Q62667
HB	186	ASP	GLU	conflict	UNP Q62667
HB	189	GLU	GLY	conflict	UNP Q62667
HB	232	ARG	LEU	conflict	UNP Q62667
HB	236	LYS	ARG	conflict	UNP Q62667
HB	242	ALA	LEU	conflict	UNP Q62667
IB	69	ALA	THR	conflict	UNP Q62667
IB	77	VAL	ILE	conflict	UNP Q62667
IB	104	LEU	VAL	conflict	UNP Q62667
IB	186	ASP	GLU	conflict	UNP Q62667
IB	189	GLU	GLY	conflict	UNP Q62667
IB	232	ARG	LEU	conflict	UNP Q62667
IB	236	LYS	ARG	conflict	UNP Q62667
IB	242	ALA	LEU	conflict	UNP Q62667
JB	69	ALA	THR	conflict	UNP Q62667
JB	77	VAL	ILE	conflict	UNP Q62667
JB	104	LEU	VAL	conflict	UNP Q62667
JB	186	ASP	GLU	conflict	UNP Q62667
JB	189	GLU	GLY	conflict	UNP Q62667
JB	232	ARG	LEU	conflict	UNP Q62667
JB	236	LYS	ARG	conflict	UNP Q62667
JB	242	ALA	LEU	conflict	UNP Q62667
KB	69	ALA	THR	conflict	UNP Q62667
KB	77	VAL	ILE	conflict	UNP Q62667
KB	104	LEU	VAL	conflict	UNP Q62667
KB	186	ASP	GLU	conflict	UNP Q62667
KB	189	GLU	GLY	conflict	UNP Q62667
KB	232	ARG	LEU	conflict	UNP Q62667
KB	236	LYS	ARG	conflict	UNP Q62667
KB	242	ALA	LEU	conflict	UNP Q62667
LB	69	ALA	THR	conflict	UNP Q62667
LB	77	VAL	ILE	conflict	UNP Q62667
LB	104	LEU	VAL	conflict	UNP Q62667
LB	186	ASP	GLU	conflict	UNP Q62667
LB	189	GLU	GLY	conflict	UNP Q62667
LB	232	ARG	LEU	conflict	UNP Q62667
LB	236	LYS	ARG	conflict	UNP Q62667
LB	242	ALA	LEU	conflict	UNP Q62667
MB	69	ALA	THR	conflict	UNP Q62667

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Chain	Residue	Modelled	Actual	Comment	Reference
MB	77	VAL	ILE	conflict	UNP Q62667
MB	104	LEU	VAL	conflict	UNP Q62667
MB	186	ASP	GLU	conflict	UNP Q62667
MB	189	GLU	GLY	conflict	UNP Q62667
MB	232	ARG	LEU	conflict	UNP Q62667
MB	236	LYS	ARG	conflict	UNP Q62667
MB	242	ALA	LEU	conflict	UNP Q62667
NB	69	ALA	THR	conflict	UNP Q62667
NB	77	VAL	ILE	conflict	UNP Q62667
NB	104	LEU	VAL	conflict	UNP Q62667
NB	186	ASP	GLU	conflict	UNP Q62667
NB	189	GLU	GLY	conflict	UNP Q62667
NB	232	ARG	LEU	conflict	UNP Q62667
NB	236	LYS	ARG	conflict	UNP Q62667
NB	242	ALA	LEU	conflict	UNP Q62667
OB	69	ALA	THR	conflict	UNP Q62667
OB	77	VAL	ILE	conflict	UNP Q62667
OB	104	LEU	VAL	conflict	UNP Q62667
OB	186	ASP	GLU	conflict	UNP Q62667
OB	189	GLU	GLY	conflict	UNP Q62667
OB	232	ARG	LEU	conflict	UNP Q62667
OB	236	LYS	ARG	conflict	UNP Q62667
OB	242	ALA	LEU	conflict	UNP Q62667
PB	69	ALA	THR	conflict	UNP Q62667
PB	77	VAL	ILE	conflict	UNP Q62667
PB	104	LEU	VAL	conflict	UNP Q62667
PB	186	ASP	GLU	conflict	UNP Q62667
PB	189	GLU	GLY	conflict	UNP Q62667
PB	232	ARG	LEU	conflict	UNP Q62667
PB	236	LYS	ARG	conflict	UNP Q62667
PB	242	ALA	LEU	conflict	UNP Q62667
QB	69	ALA	THR	conflict	UNP Q62667
QB	77	VAL	ILE	conflict	UNP Q62667
QB	104	LEU	VAL	conflict	UNP Q62667
QB	186	ASP	GLU	conflict	UNP Q62667
QB	189	GLU	GLY	conflict	UNP Q62667
QB	232	ARG	LEU	conflict	UNP Q62667
QB	236	LYS	ARG	conflict	UNP Q62667
QB	242	ALA	LEU	conflict	UNP Q62667
RB	69	ALA	THR	conflict	UNP Q62667
RB	77	VAL	ILE	conflict	UNP Q62667
RB	104	LEU	VAL	conflict	UNP Q62667

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Chain	Residue	Modelled	Actual	Comment	Reference
RB	186	ASP	GLU	conflict	UNP Q62667
RB	189	GLU	GLY	conflict	UNP Q62667
RB	232	ARG	LEU	conflict	UNP Q62667
RB	236	LYS	ARG	conflict	UNP Q62667
RB	242	ALA	LEU	conflict	UNP Q62667
SB	69	ALA	THR	conflict	UNP Q62667
SB	77	VAL	ILE	conflict	UNP Q62667
SB	104	LEU	VAL	conflict	UNP Q62667
SB	186	ASP	GLU	conflict	UNP Q62667
SB	189	GLU	GLY	conflict	UNP Q62667
SB	232	ARG	LEU	conflict	UNP Q62667
SB	236	LYS	ARG	conflict	UNP Q62667
SB	242	ALA	LEU	conflict	UNP Q62667
TB	69	ALA	THR	conflict	UNP Q62667
TB	77	VAL	ILE	conflict	UNP Q62667
TB	104	LEU	VAL	conflict	UNP Q62667
TB	186	ASP	GLU	conflict	UNP Q62667
TB	189	GLU	GLY	conflict	UNP Q62667
TB	232	ARG	LEU	conflict	UNP Q62667
TB	236	LYS	ARG	conflict	UNP Q62667
TB	242	ALA	LEU	conflict	UNP Q62667
UB	69	ALA	THR	conflict	UNP Q62667
UB	77	VAL	ILE	conflict	UNP Q62667
UB	104	LEU	VAL	conflict	UNP Q62667
UB	186	ASP	GLU	conflict	UNP Q62667
UB	189	GLU	GLY	conflict	UNP Q62667
UB	232	ARG	LEU	conflict	UNP Q62667
UB	236	LYS	ARG	conflict	UNP Q62667
UB	242	ALA	LEU	conflict	UNP Q62667
VB	69	ALA	THR	conflict	UNP Q62667
VB	77	VAL	ILE	conflict	UNP Q62667
VB	104	LEU	VAL	conflict	UNP Q62667
VB	186	ASP	GLU	conflict	UNP Q62667
VB	189	GLU	GLY	conflict	UNP Q62667
VB	232	ARG	LEU	conflict	UNP Q62667
VB	236	LYS	ARG	conflict	UNP Q62667
VB	242	ALA	LEU	conflict	UNP Q62667
WB	69	ALA	THR	conflict	UNP Q62667
WB	77	VAL	ILE	conflict	UNP Q62667
WB	104	LEU	VAL	conflict	UNP Q62667
WB	186	ASP	GLU	conflict	UNP Q62667
WB	189	GLU	GLY	conflict	UNP Q62667

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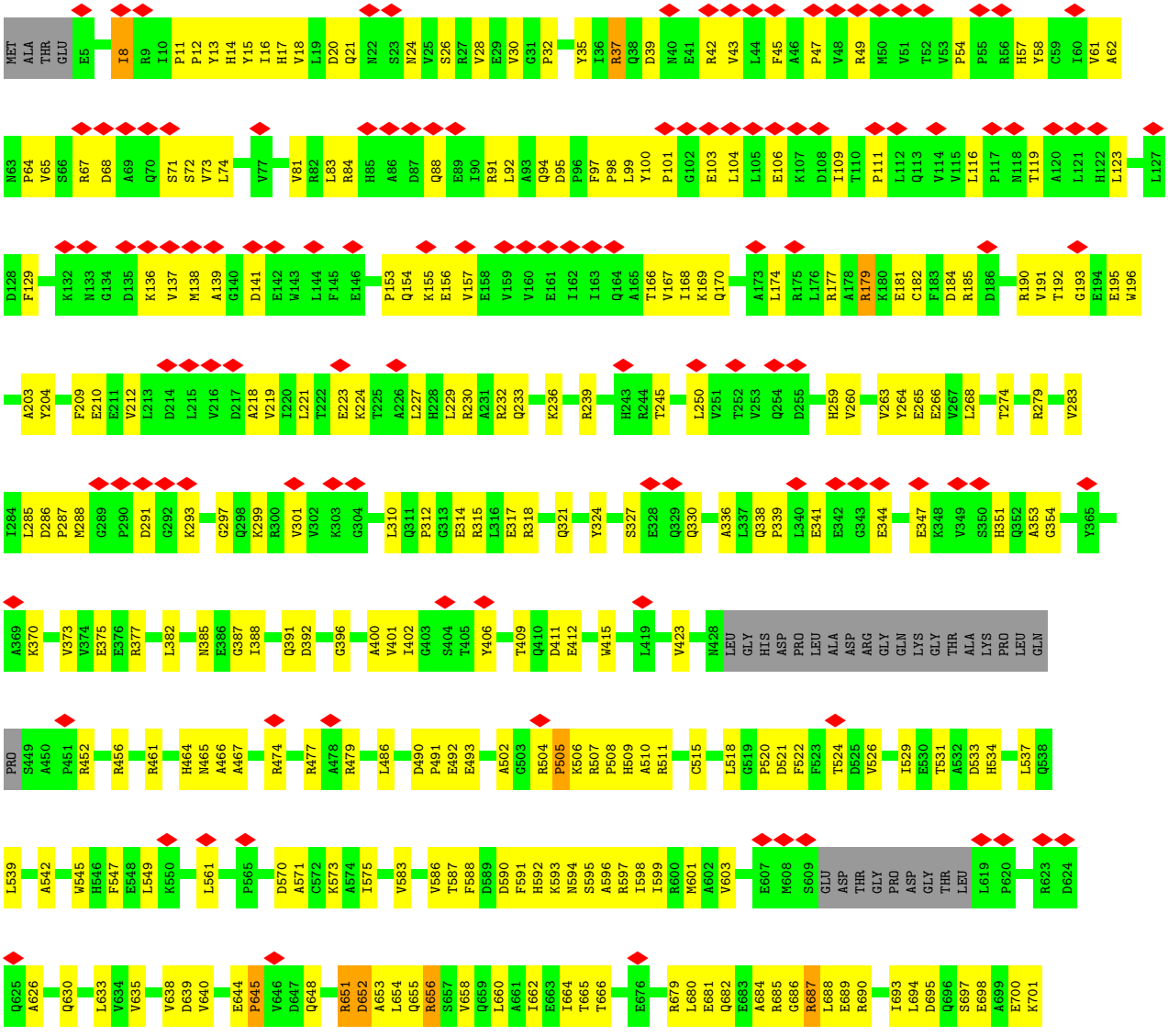
Chain	Residue	Modelled	Actual	Comment	Reference
WB	232	ARG	LEU	conflict	UNP Q62667
WB	236	LYS	ARG	conflict	UNP Q62667
WB	242	ALA	LEU	conflict	UNP Q62667
XB	69	ALA	THR	conflict	UNP Q62667
XB	77	VAL	ILE	conflict	UNP Q62667
XB	104	LEU	VAL	conflict	UNP Q62667
XB	186	ASP	GLU	conflict	UNP Q62667
XB	189	GLU	GLY	conflict	UNP Q62667
XB	232	ARG	LEU	conflict	UNP Q62667
XB	236	LYS	ARG	conflict	UNP Q62667
XB	242	ALA	LEU	conflict	UNP Q62667
YB	69	ALA	THR	conflict	UNP Q62667
YB	77	VAL	ILE	conflict	UNP Q62667
YB	104	LEU	VAL	conflict	UNP Q62667
YB	186	ASP	GLU	conflict	UNP Q62667
YB	189	GLU	GLY	conflict	UNP Q62667
YB	232	ARG	LEU	conflict	UNP Q62667
YB	236	LYS	ARG	conflict	UNP Q62667
YB	242	ALA	LEU	conflict	UNP Q62667
ZB	69	ALA	THR	conflict	UNP Q62667
ZB	77	VAL	ILE	conflict	UNP Q62667
ZB	104	LEU	VAL	conflict	UNP Q62667
ZB	186	ASP	GLU	conflict	UNP Q62667
ZB	189	GLU	GLY	conflict	UNP Q62667
ZB	232	ARG	LEU	conflict	UNP Q62667
ZB	236	LYS	ARG	conflict	UNP Q62667
ZB	242	ALA	LEU	conflict	UNP Q62667
AC	69	ALA	THR	conflict	UNP Q62667
AC	77	VAL	ILE	conflict	UNP Q62667
AC	104	LEU	VAL	conflict	UNP Q62667
AC	186	ASP	GLU	conflict	UNP Q62667
AC	189	GLU	GLY	conflict	UNP Q62667
AC	232	ARG	LEU	conflict	UNP Q62667
AC	236	LYS	ARG	conflict	UNP Q62667
AC	242	ALA	LEU	conflict	UNP Q62667

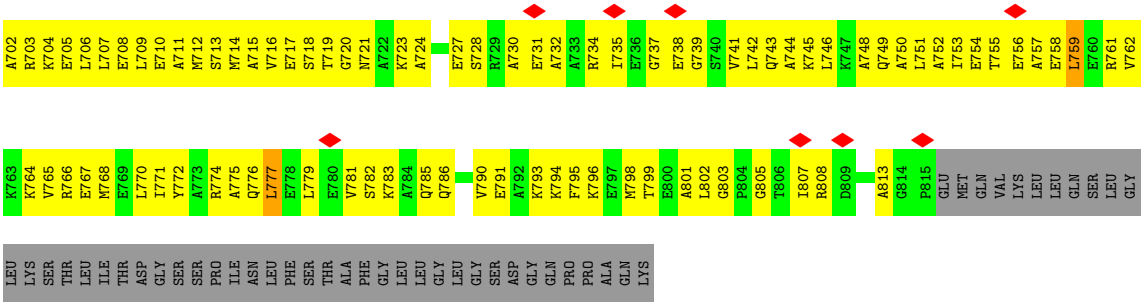
3 Residue-property plots (i)

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

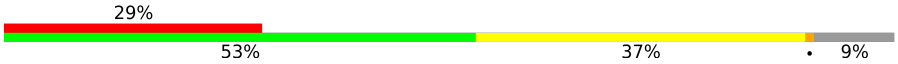
Chain A:

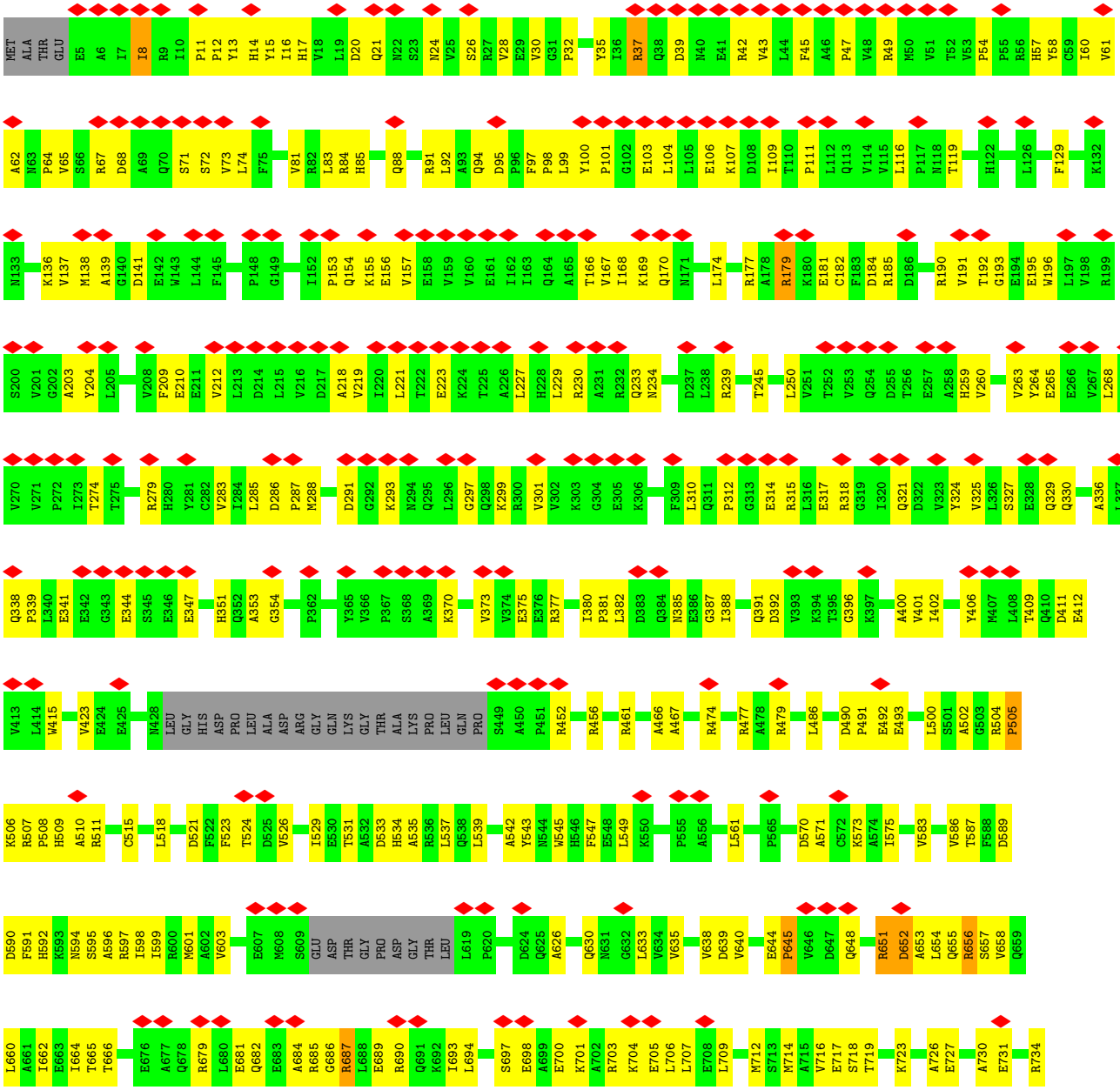


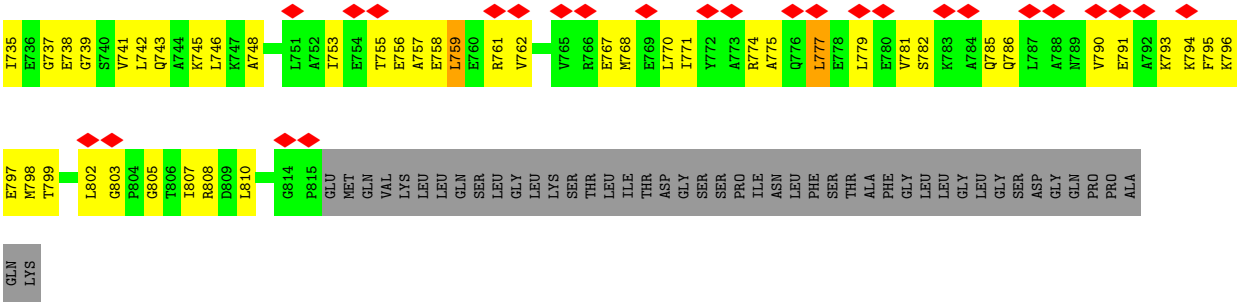


• Molecule 1: Major vault protein

Chain B:

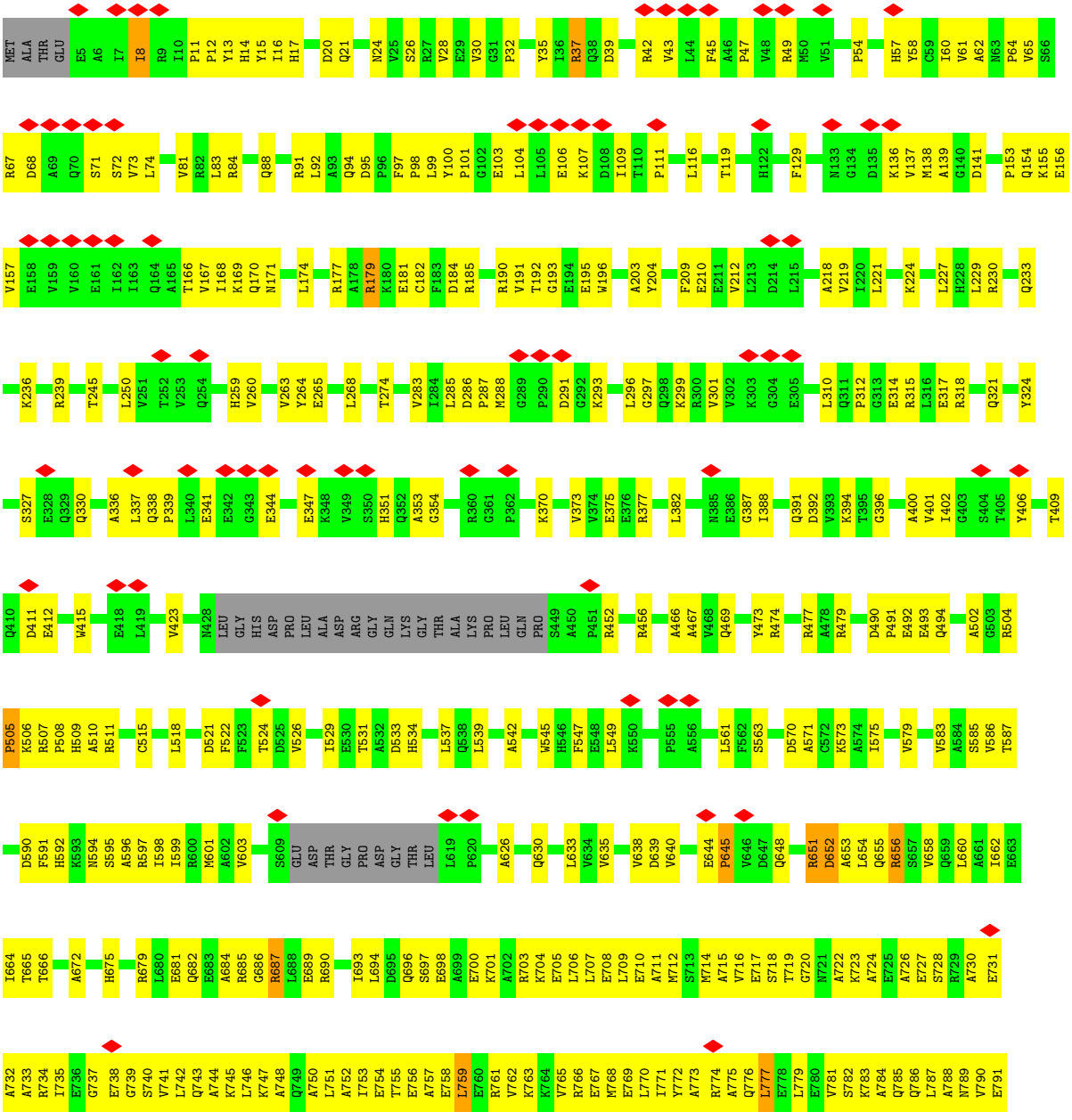


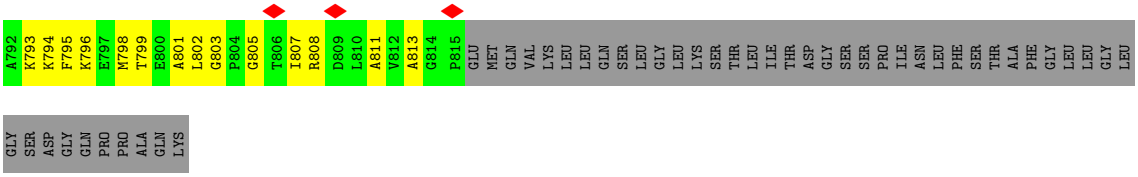




• Molecule 1: Major vault protein

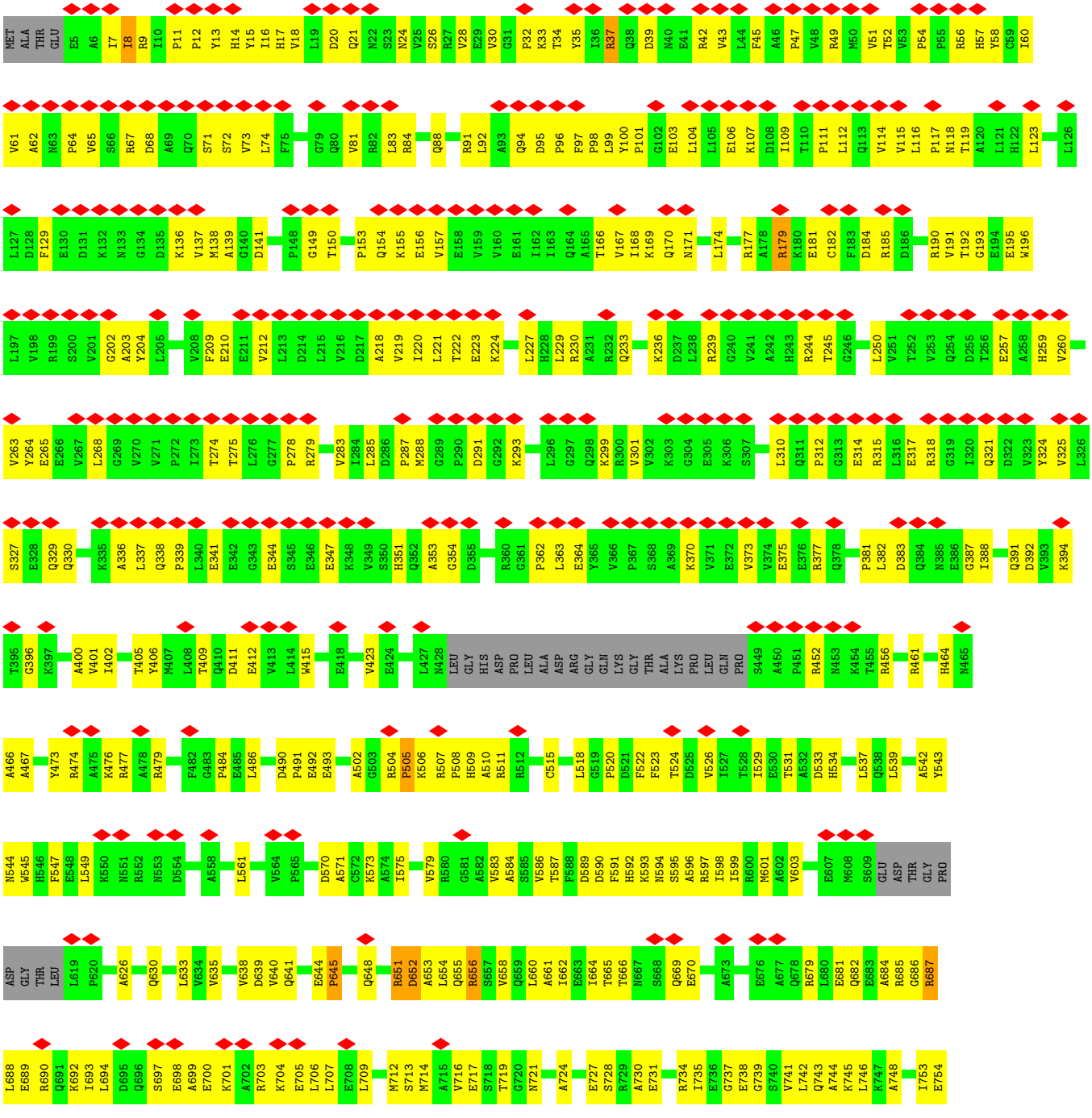
Chain C:

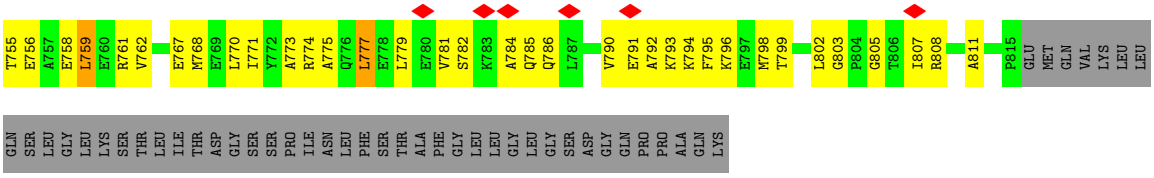




• Molecule 1: Major vault protein

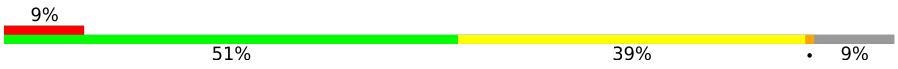
Chain D:

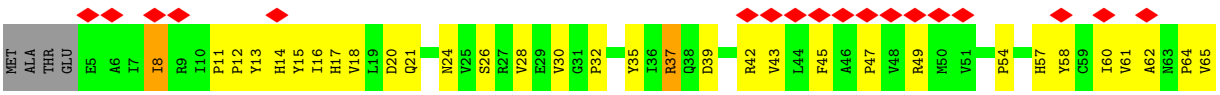


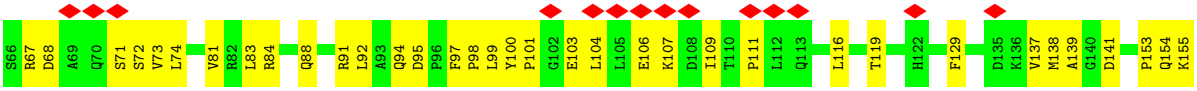


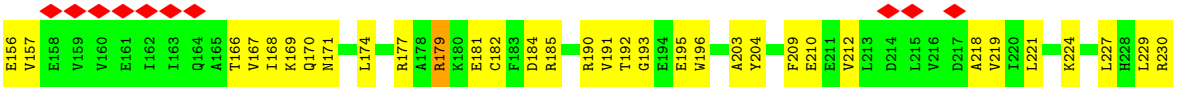
• Molecule 1: Major vault protein

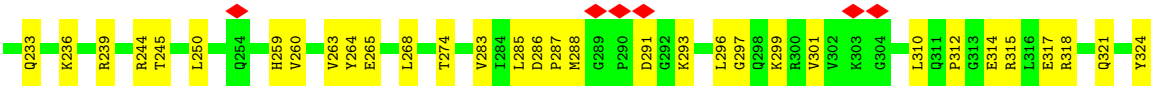
Chain E:

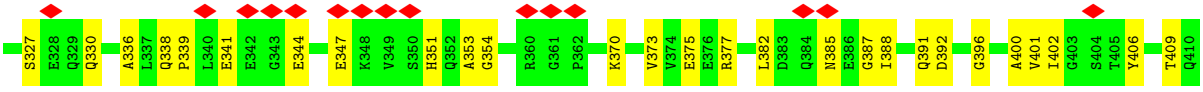


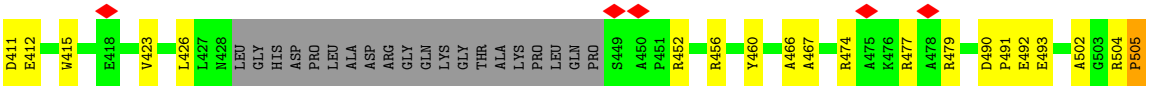


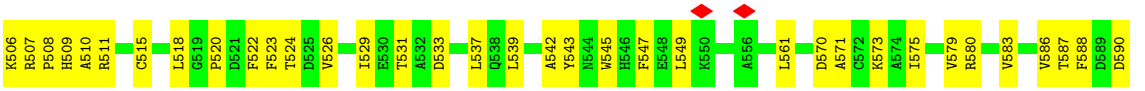


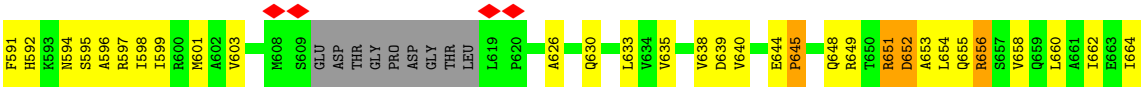


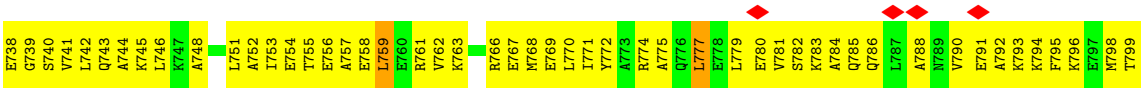


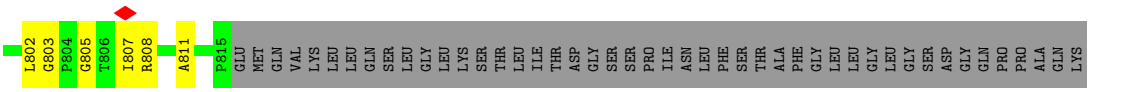






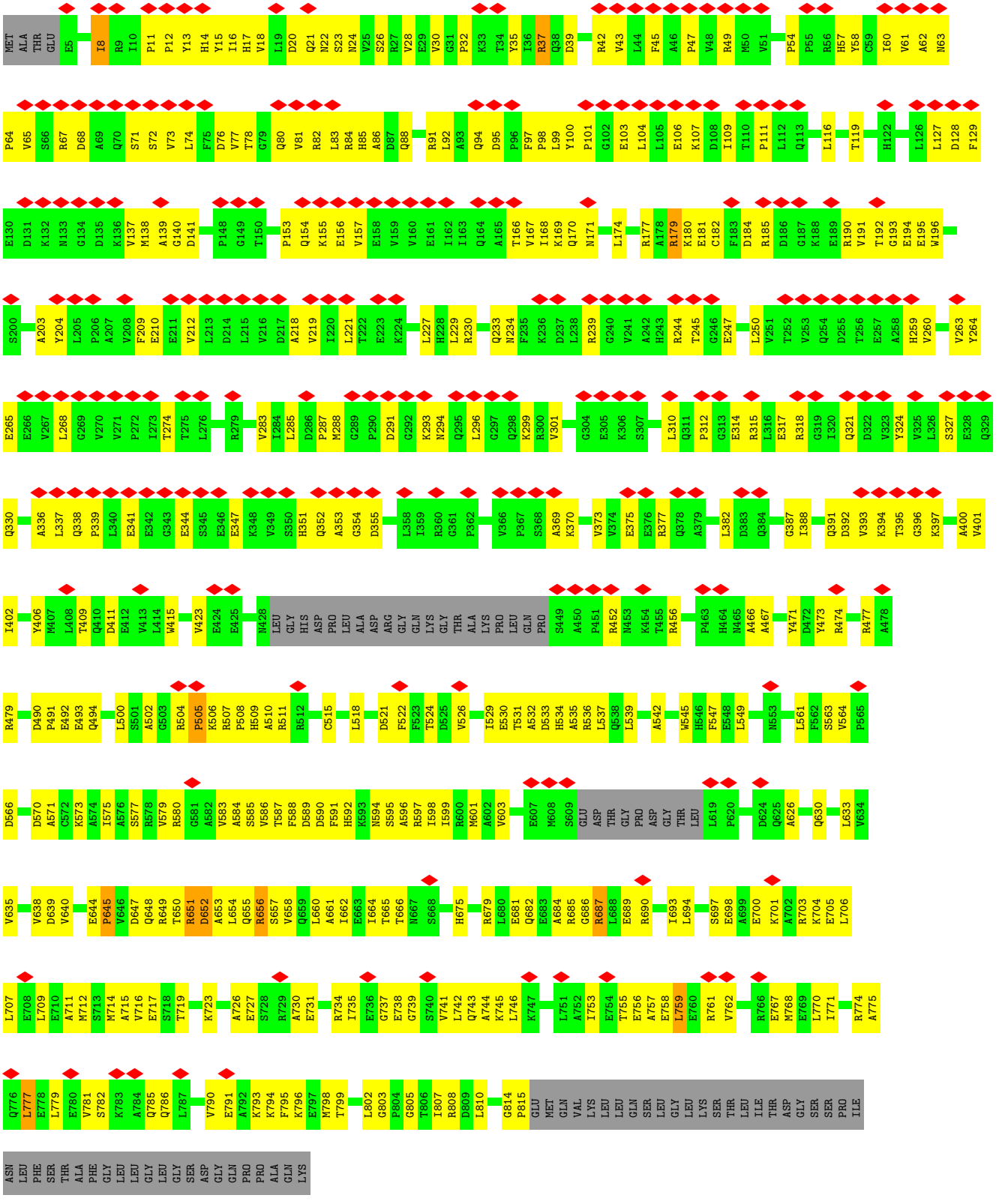






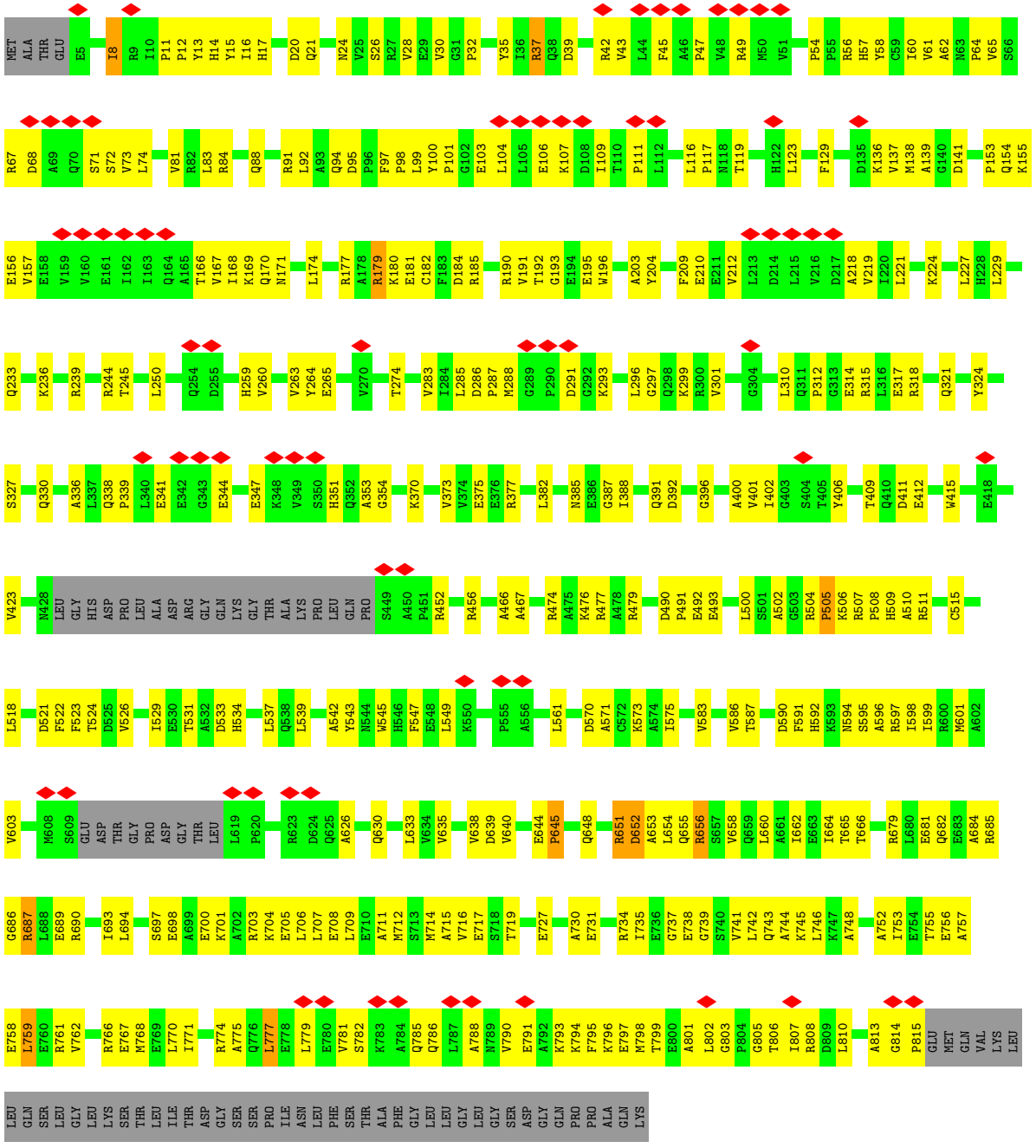
• Molecule 1: Major vault protein

Chain F:



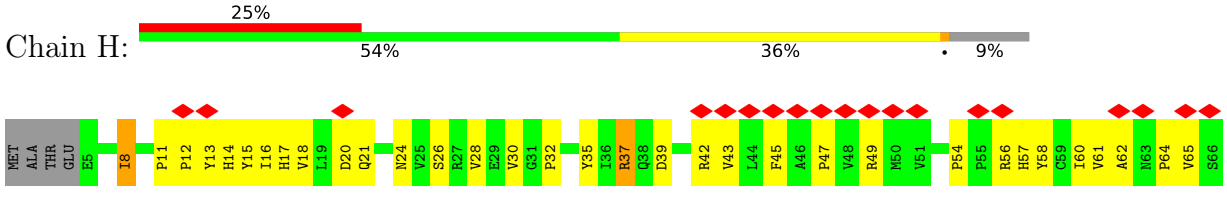
• Molecule 1: Major vault protein

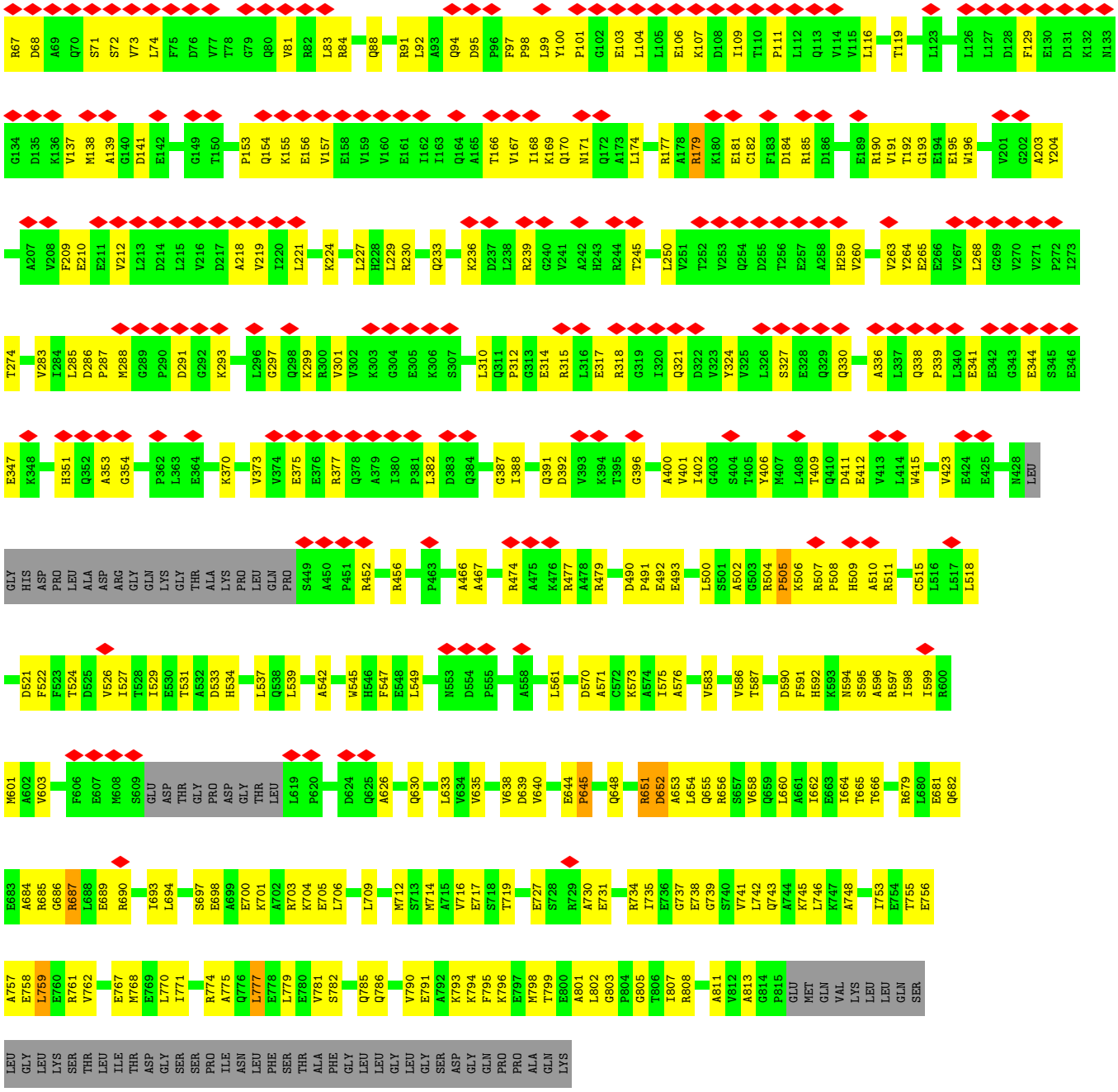
Chain G:



• Molecule 1: Major vault protein

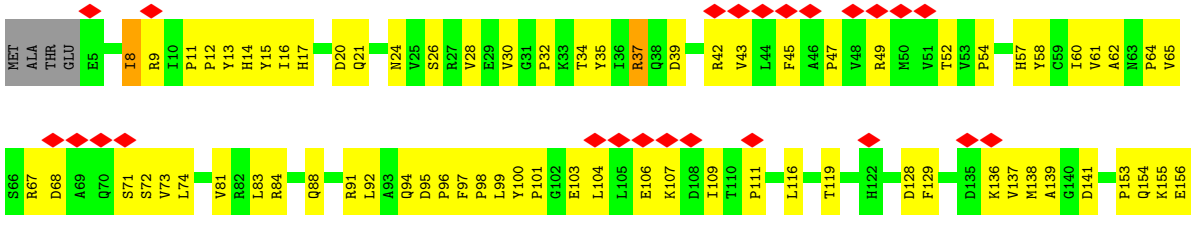
Chain H:

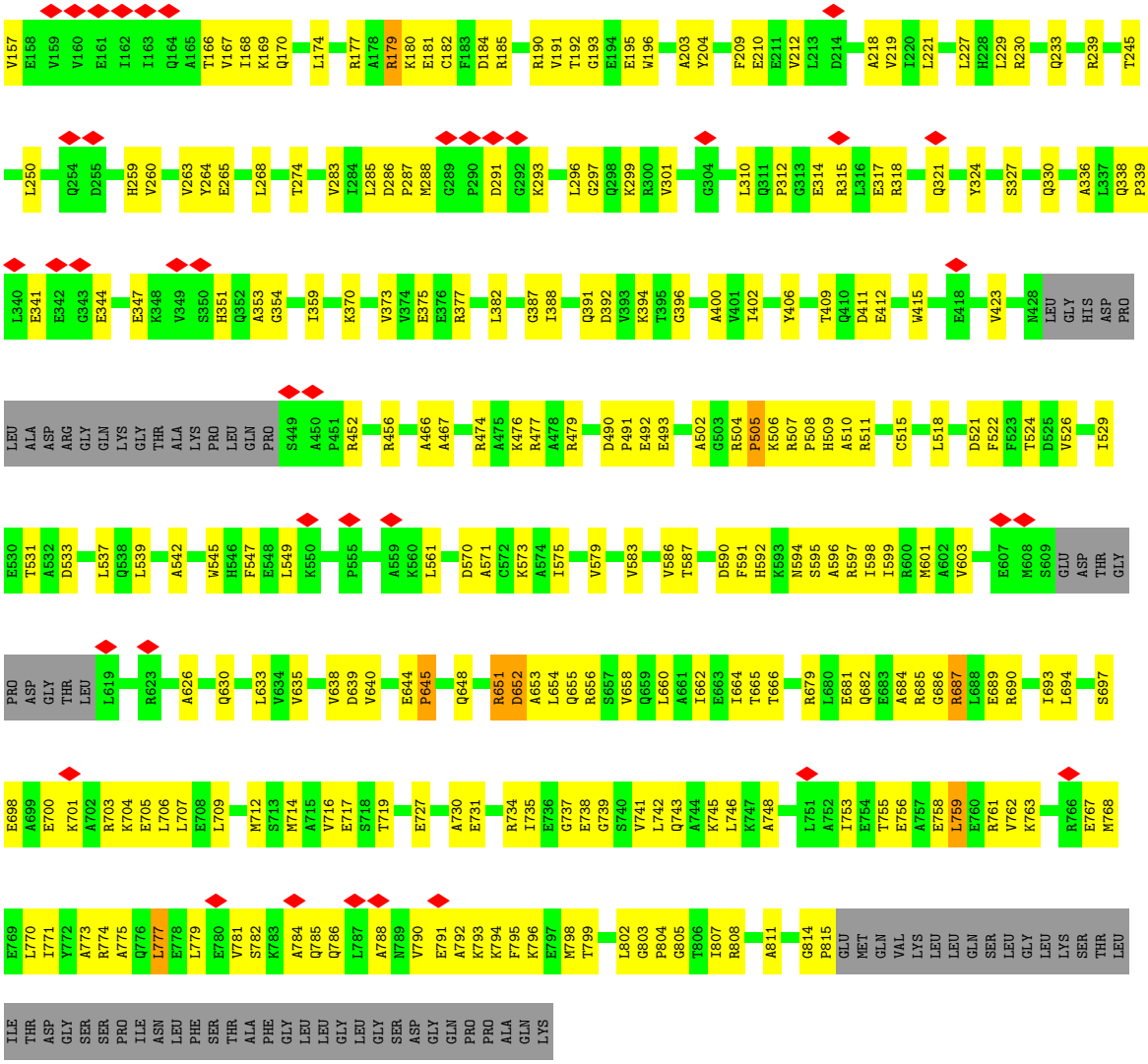




• Molecule 1: Major vault protein

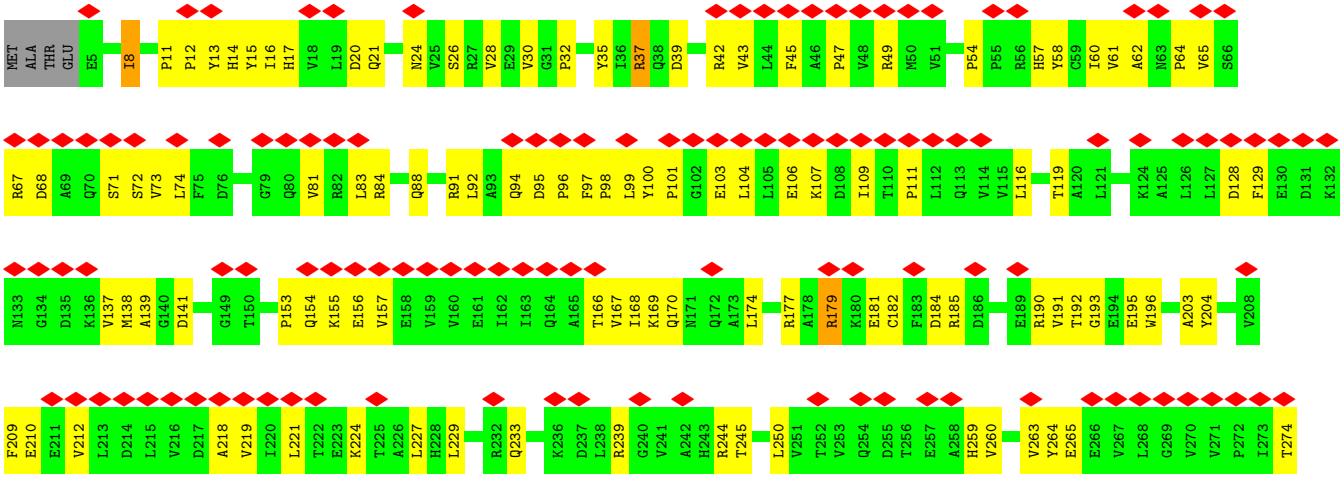
Chain I:

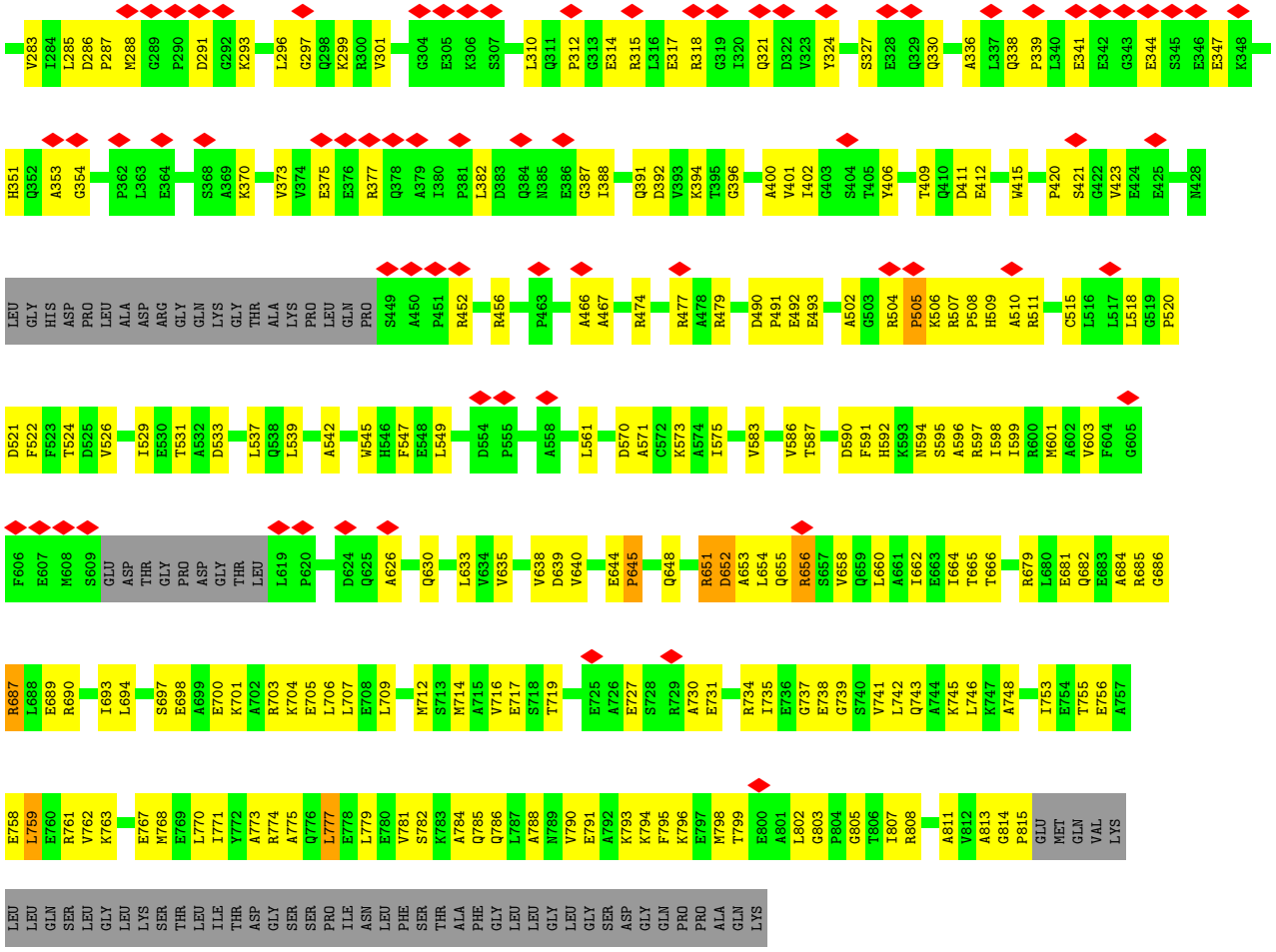




• Molecule 1: Major vault protein

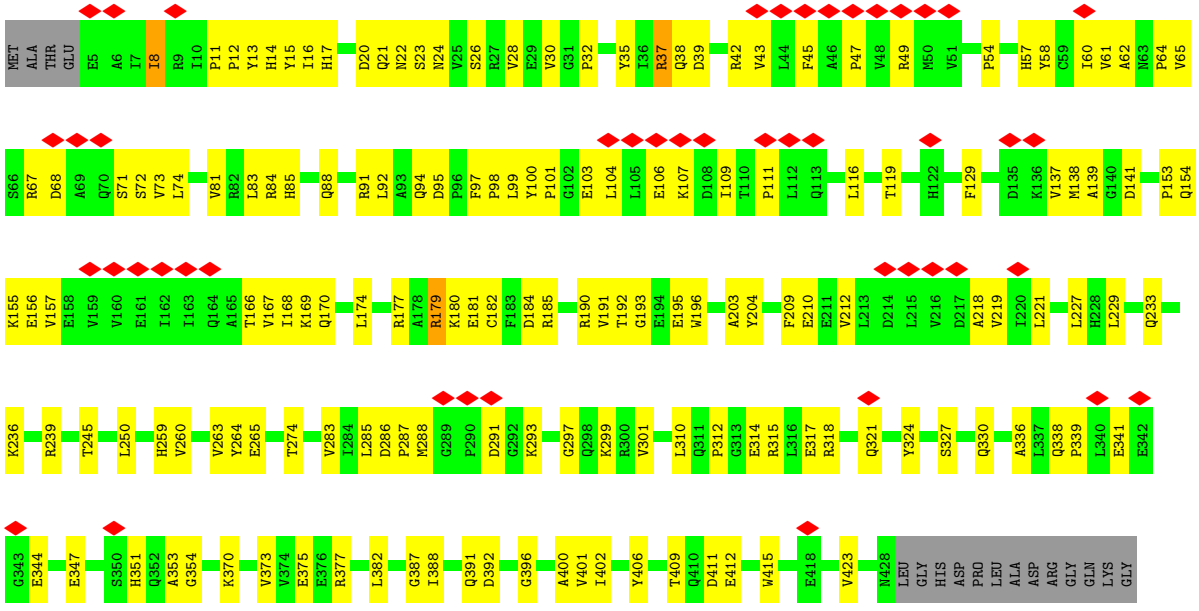
Chain J:

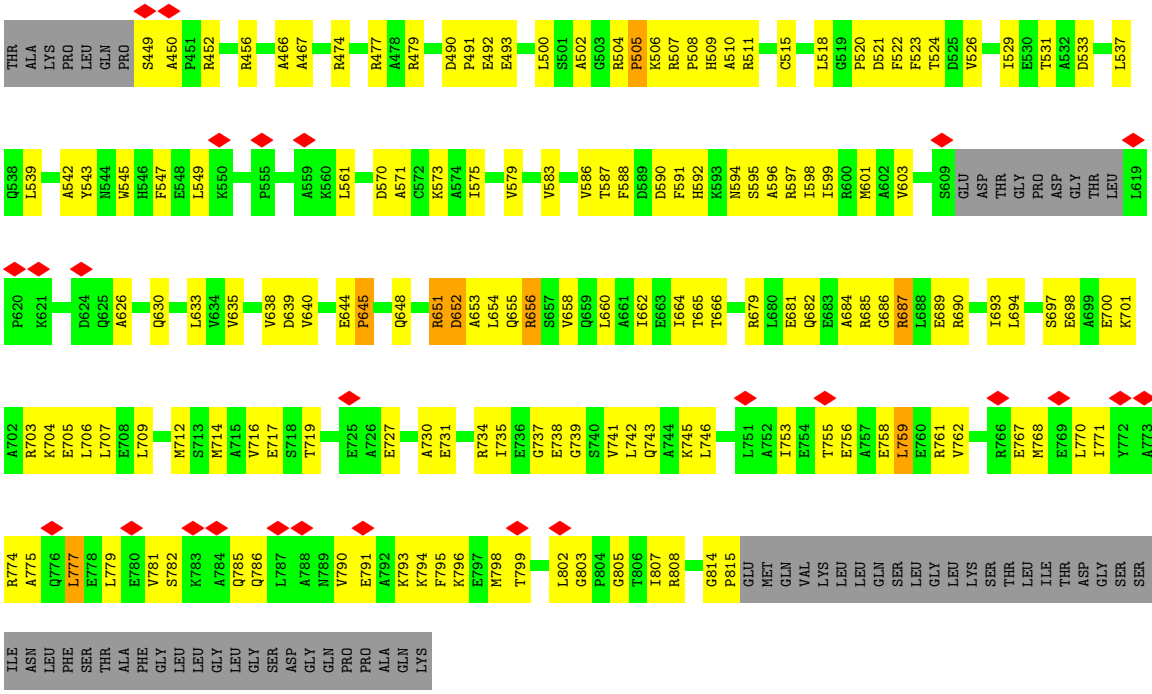




• Molecule 1: Major vault protein

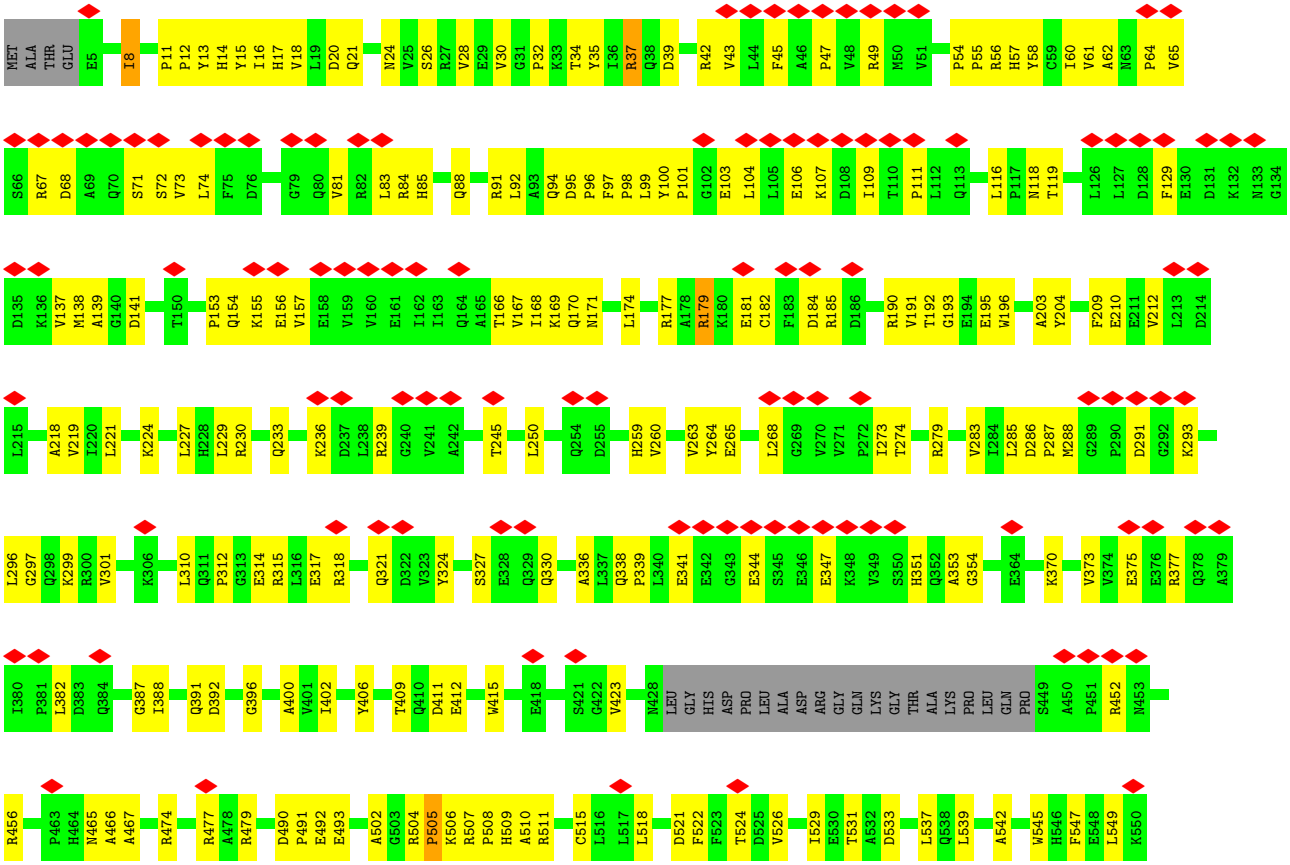
Chain K:

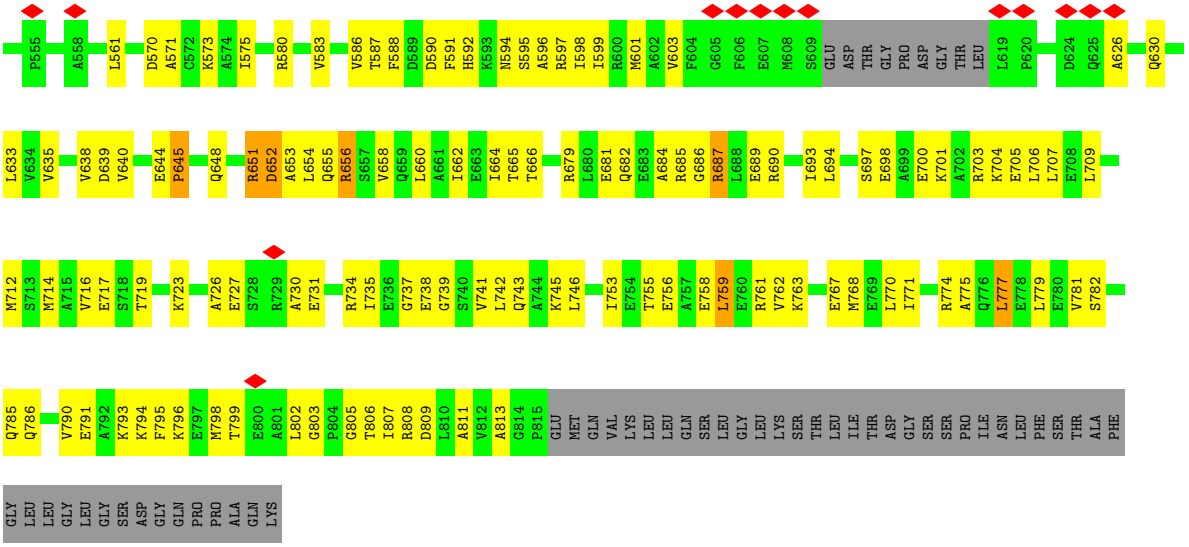




• Molecule 1: Major vault protein

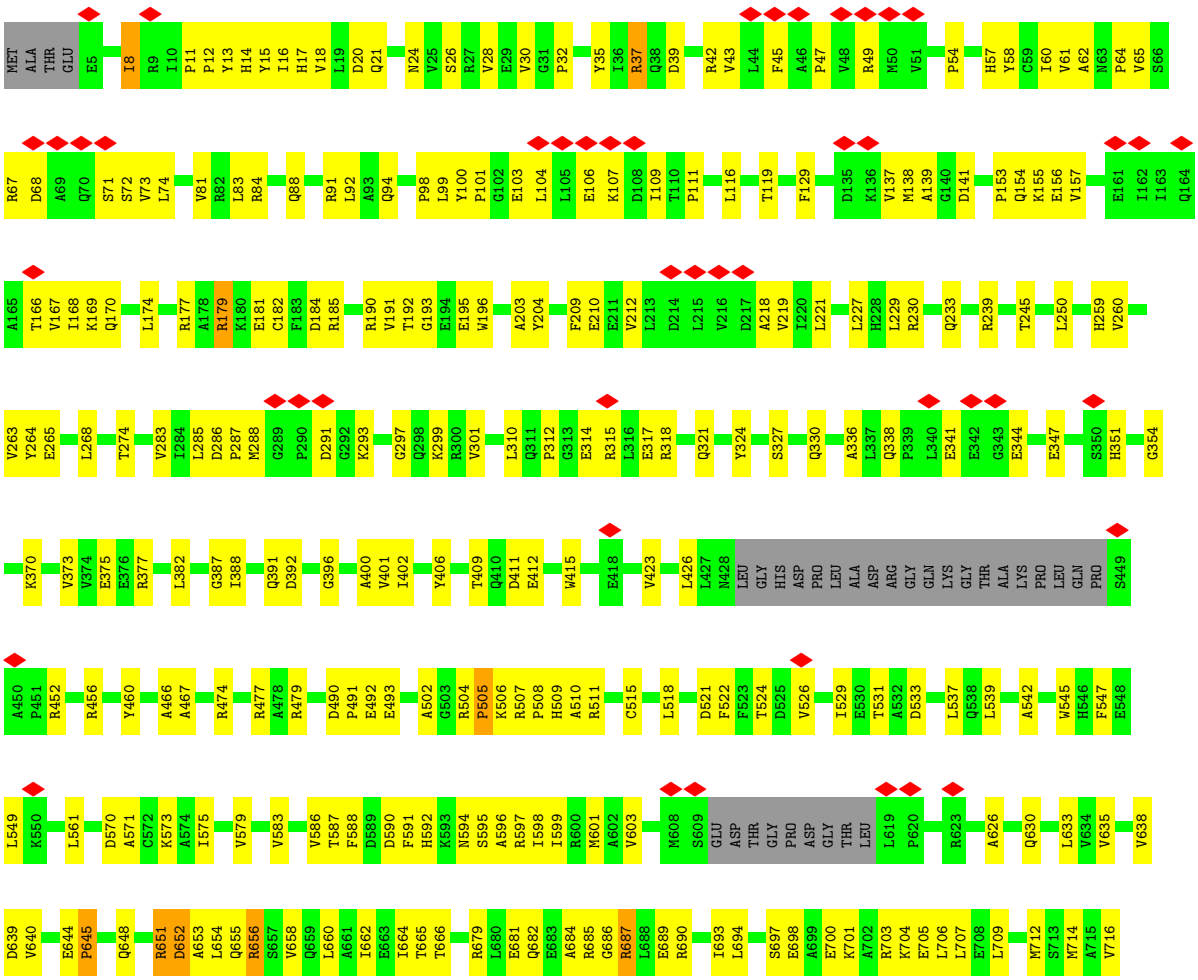
Chain L:

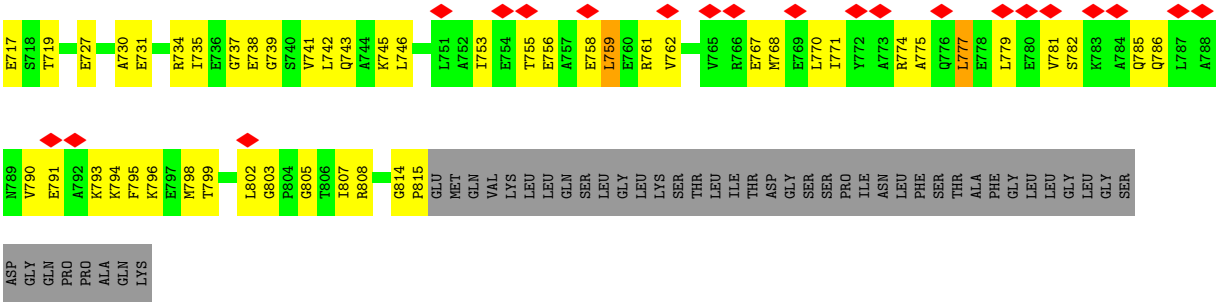




• Molecule 1: Major vault protein

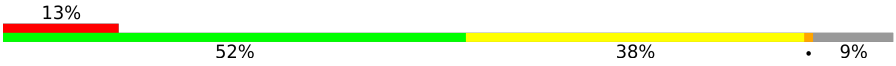
Chain M:

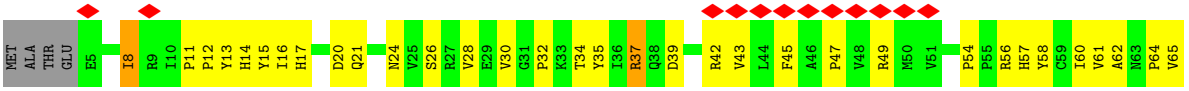


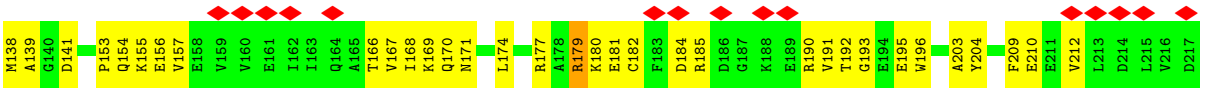


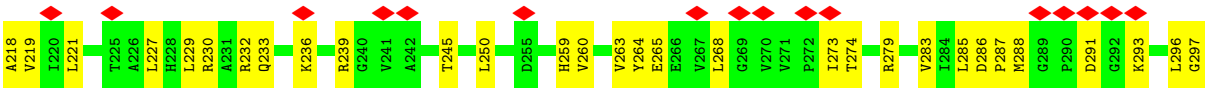
• Molecule 1: Major vault protein

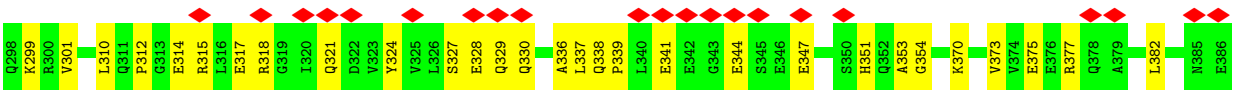
Chain N:

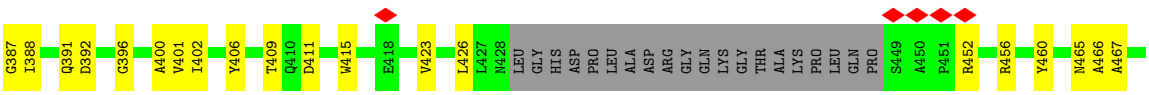


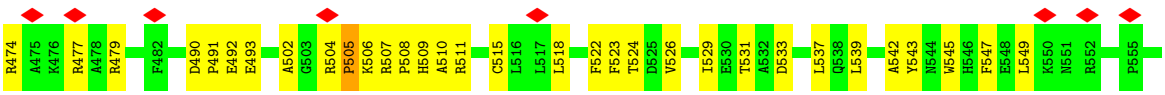


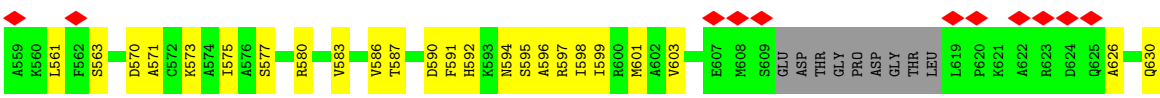


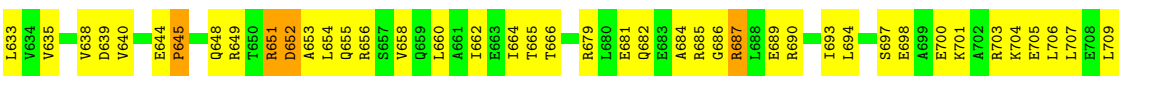


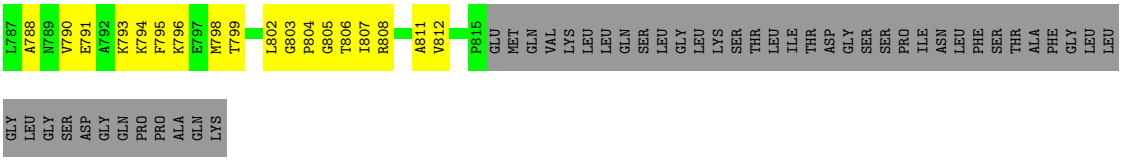






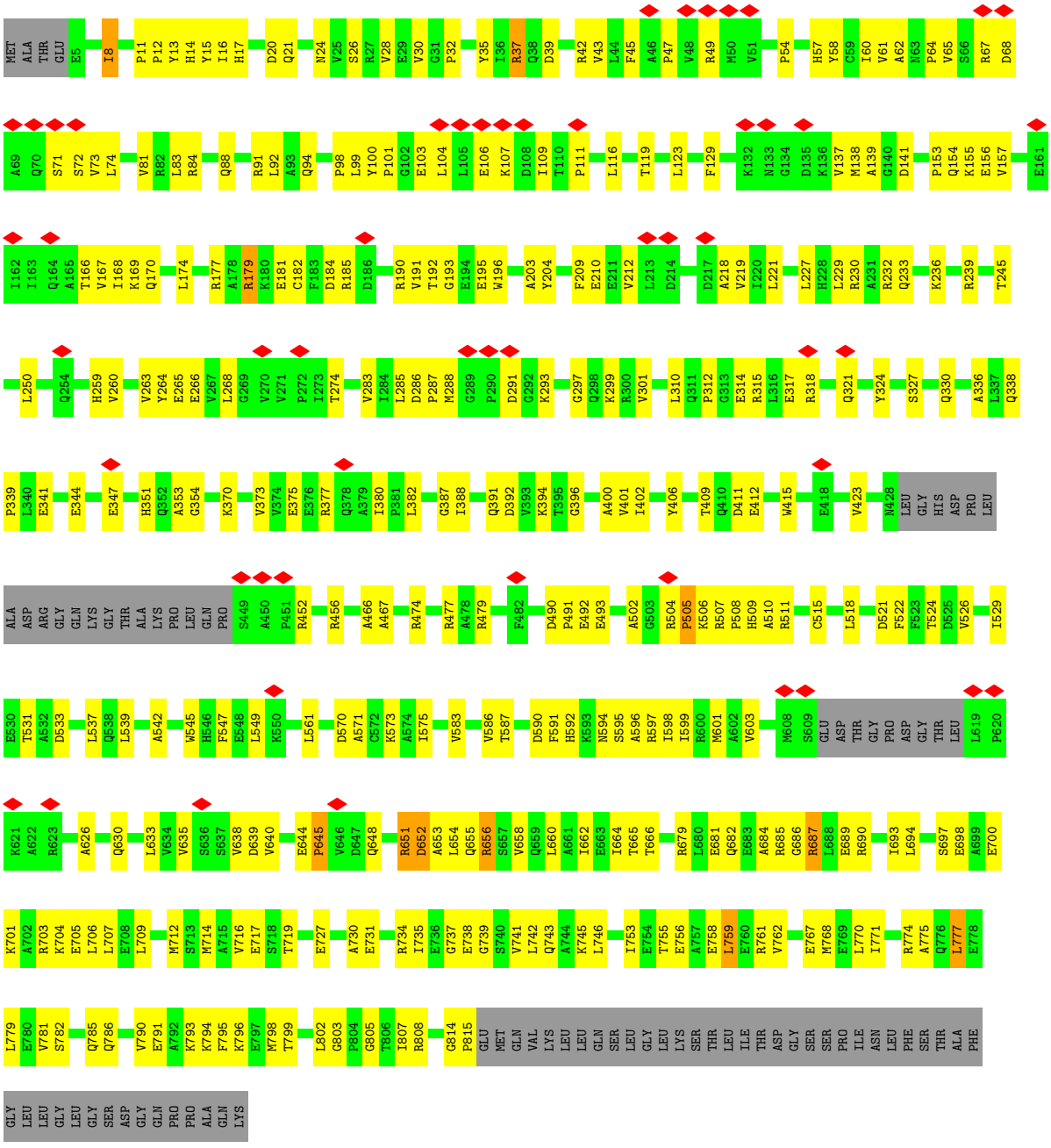






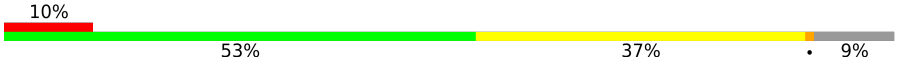
• Molecule 1: Major vault protein

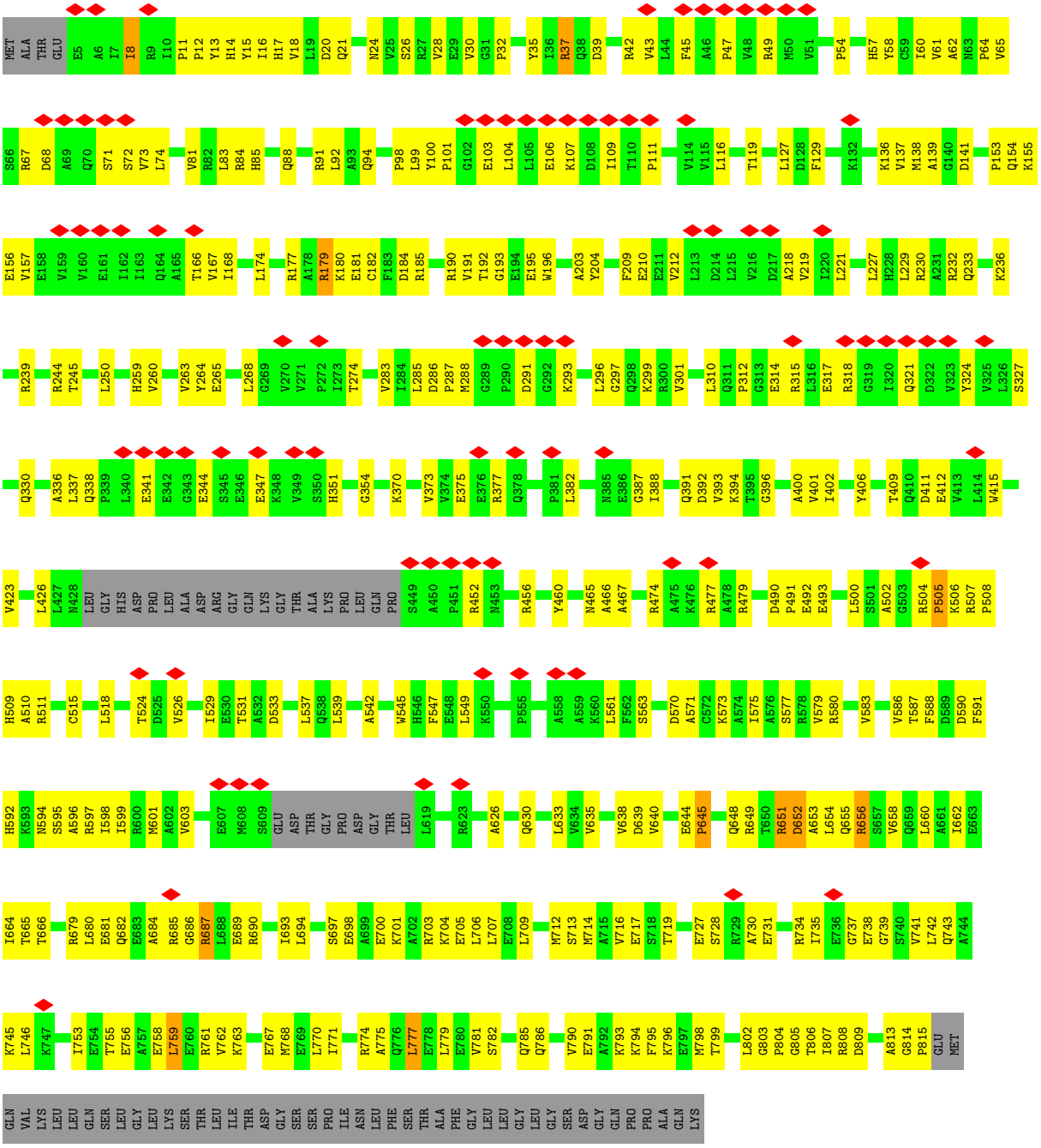
Chain O:



• Molecule 1: Major vault protein

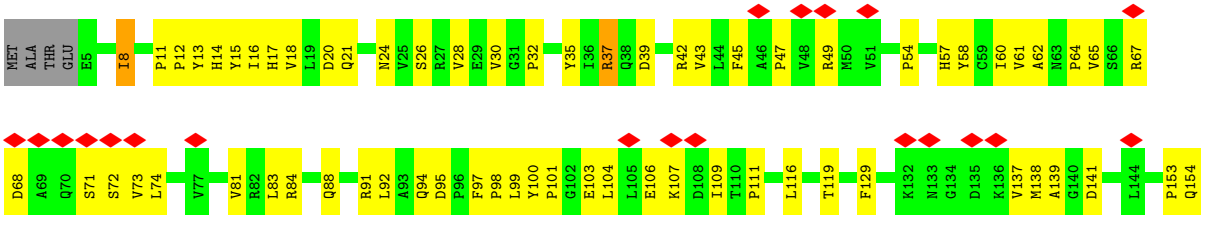
Chain P:

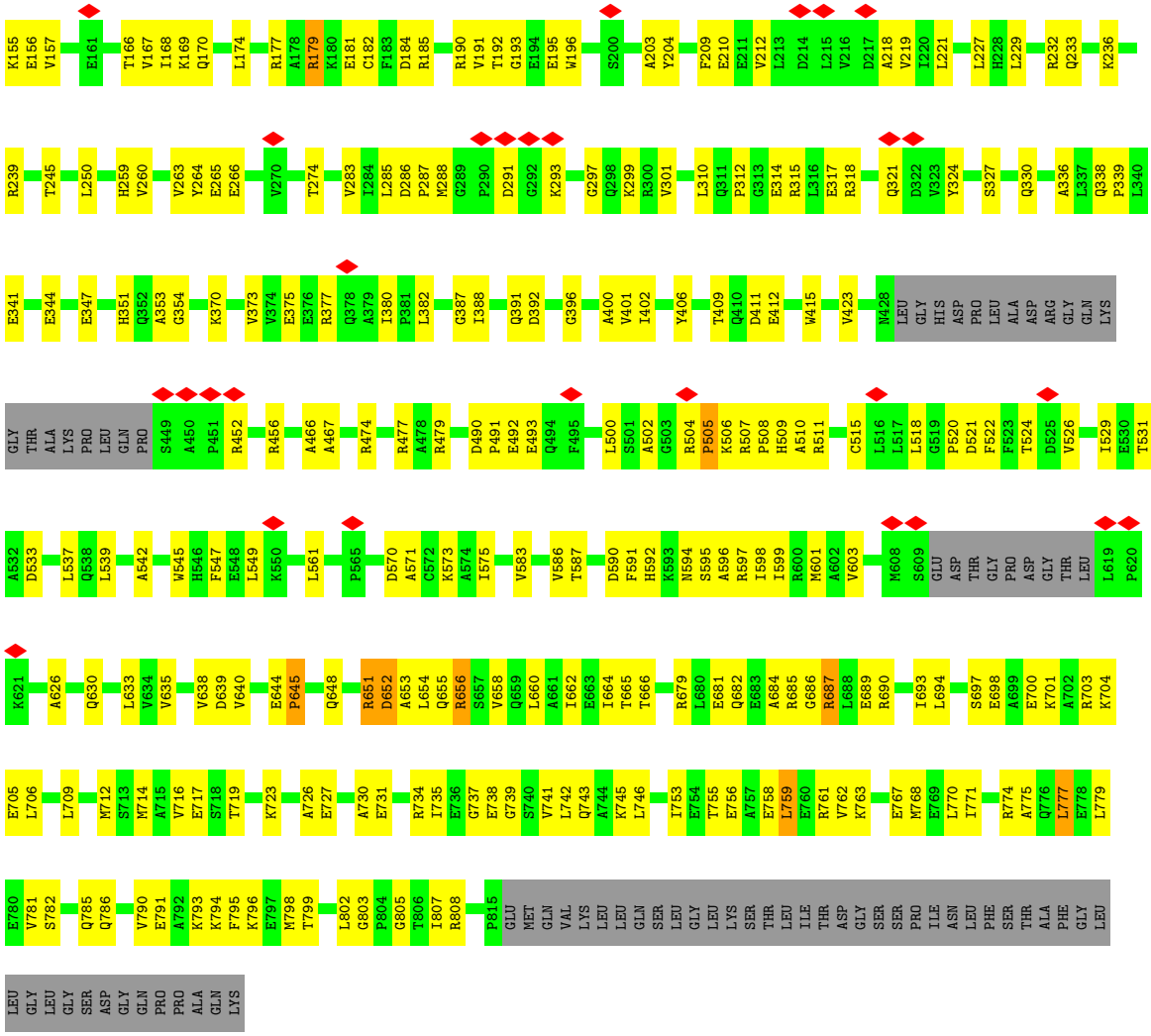




• Molecule 1: Major vault protein

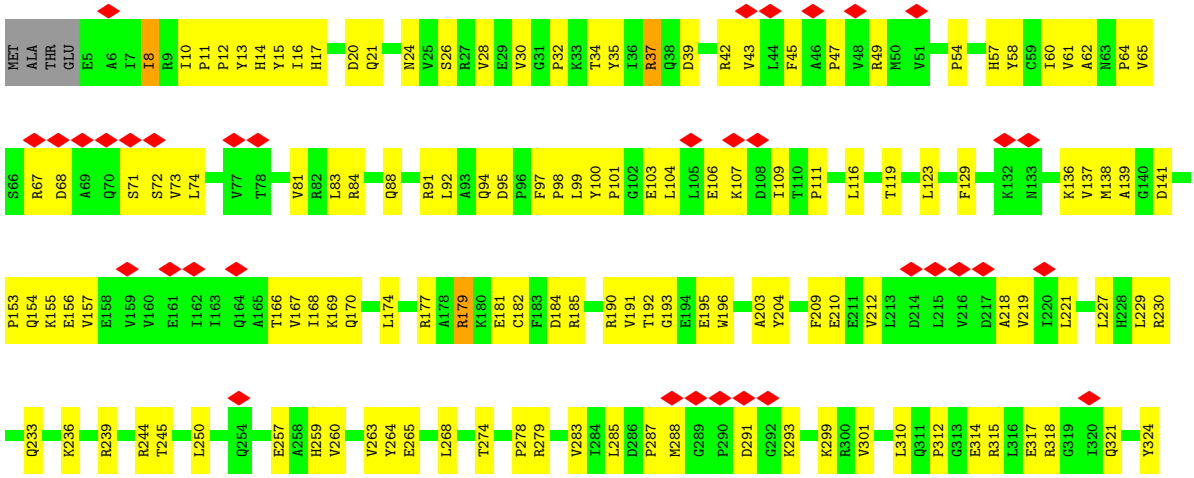
Chain Q:

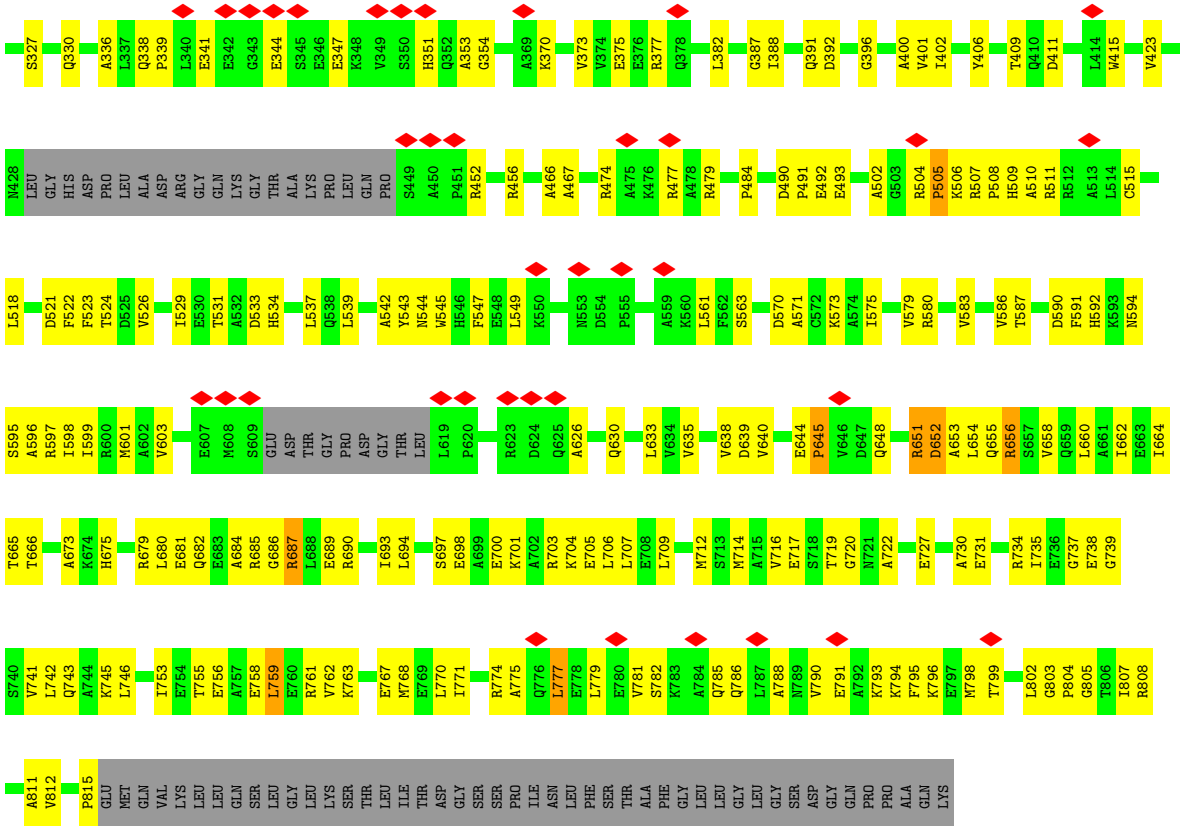




• Molecule 1: Major vault protein

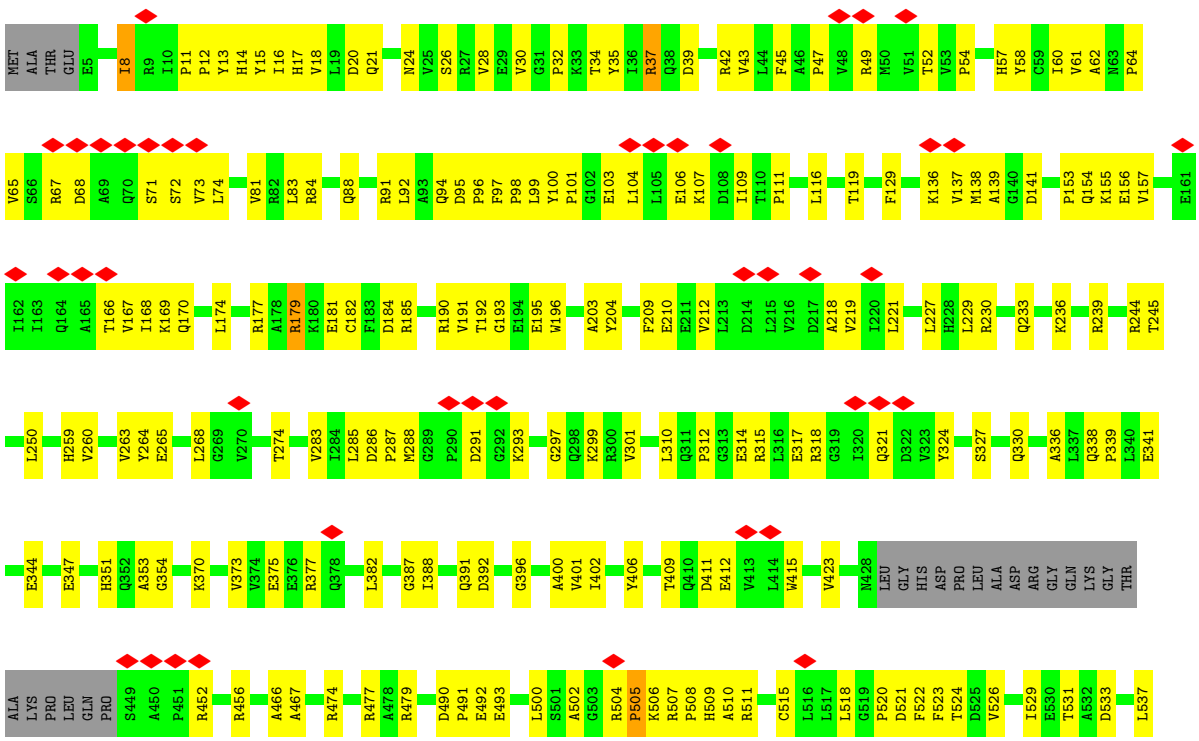
Chain R:

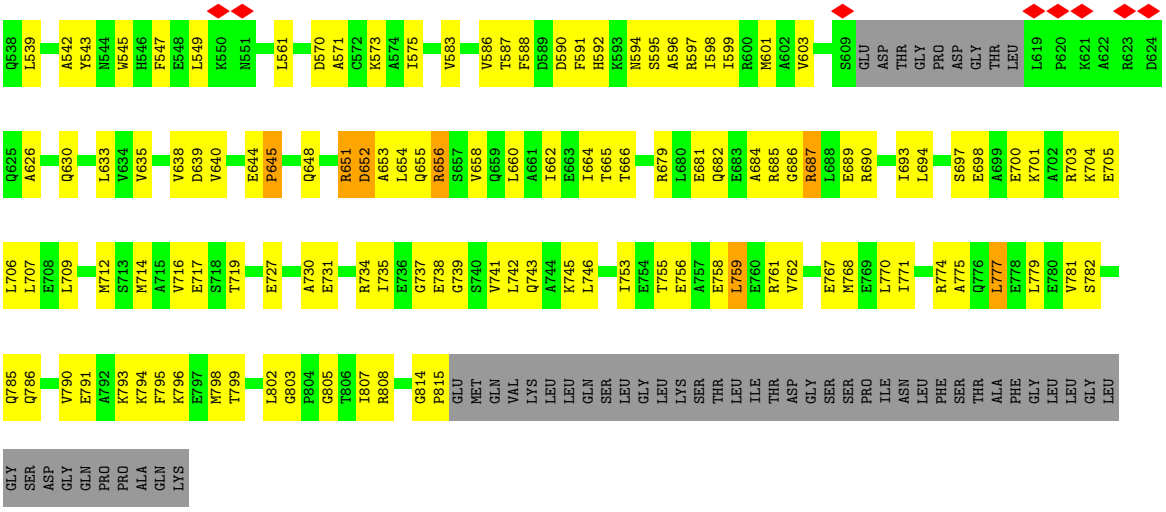




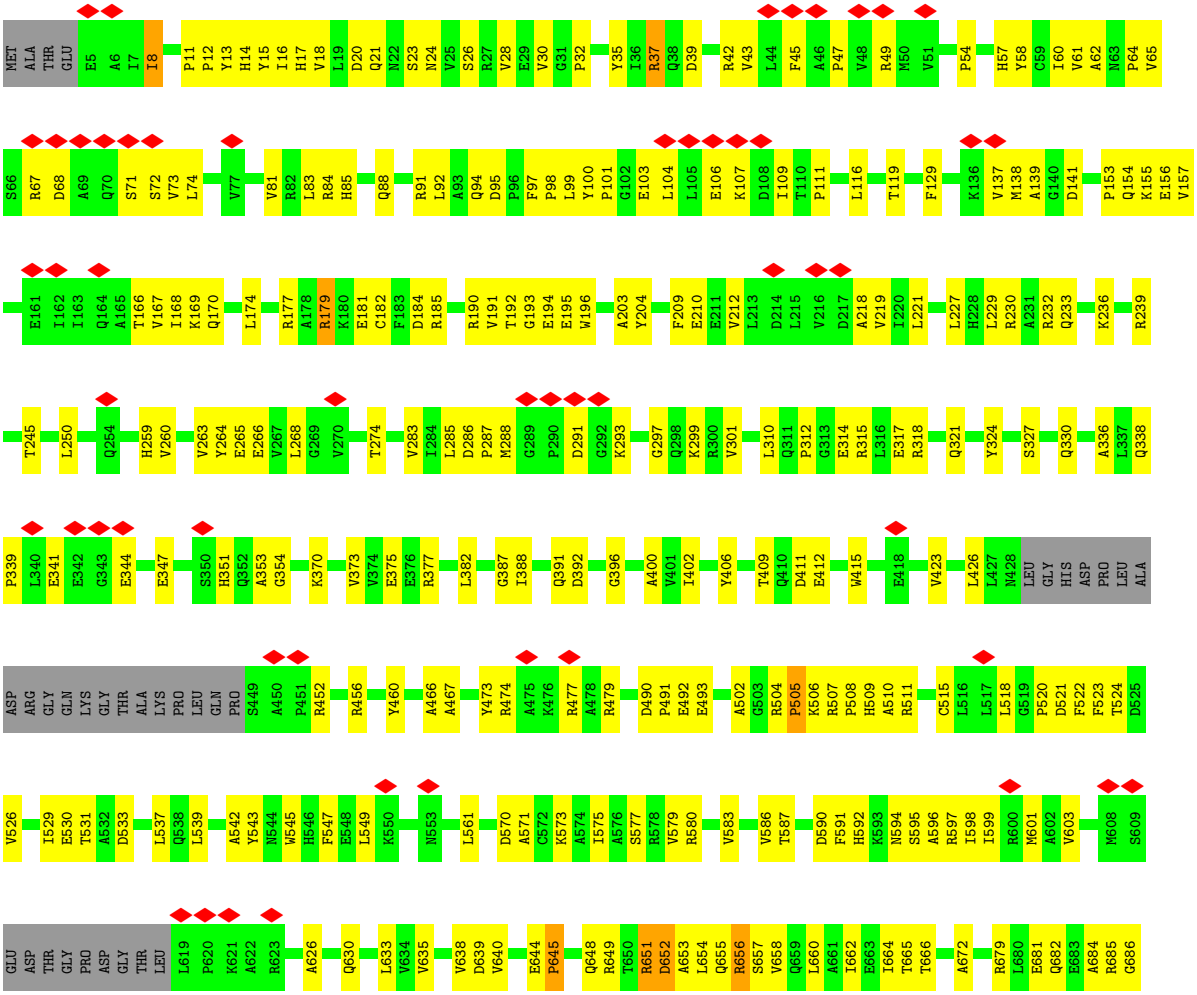
• Molecule 1: Major vault protein

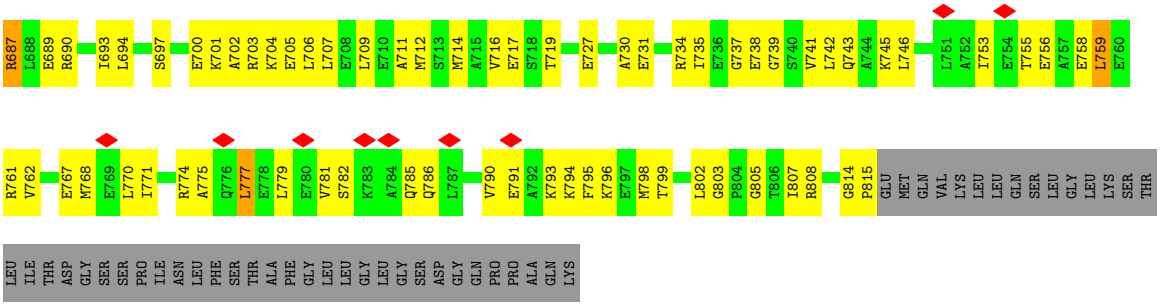
Chain S:





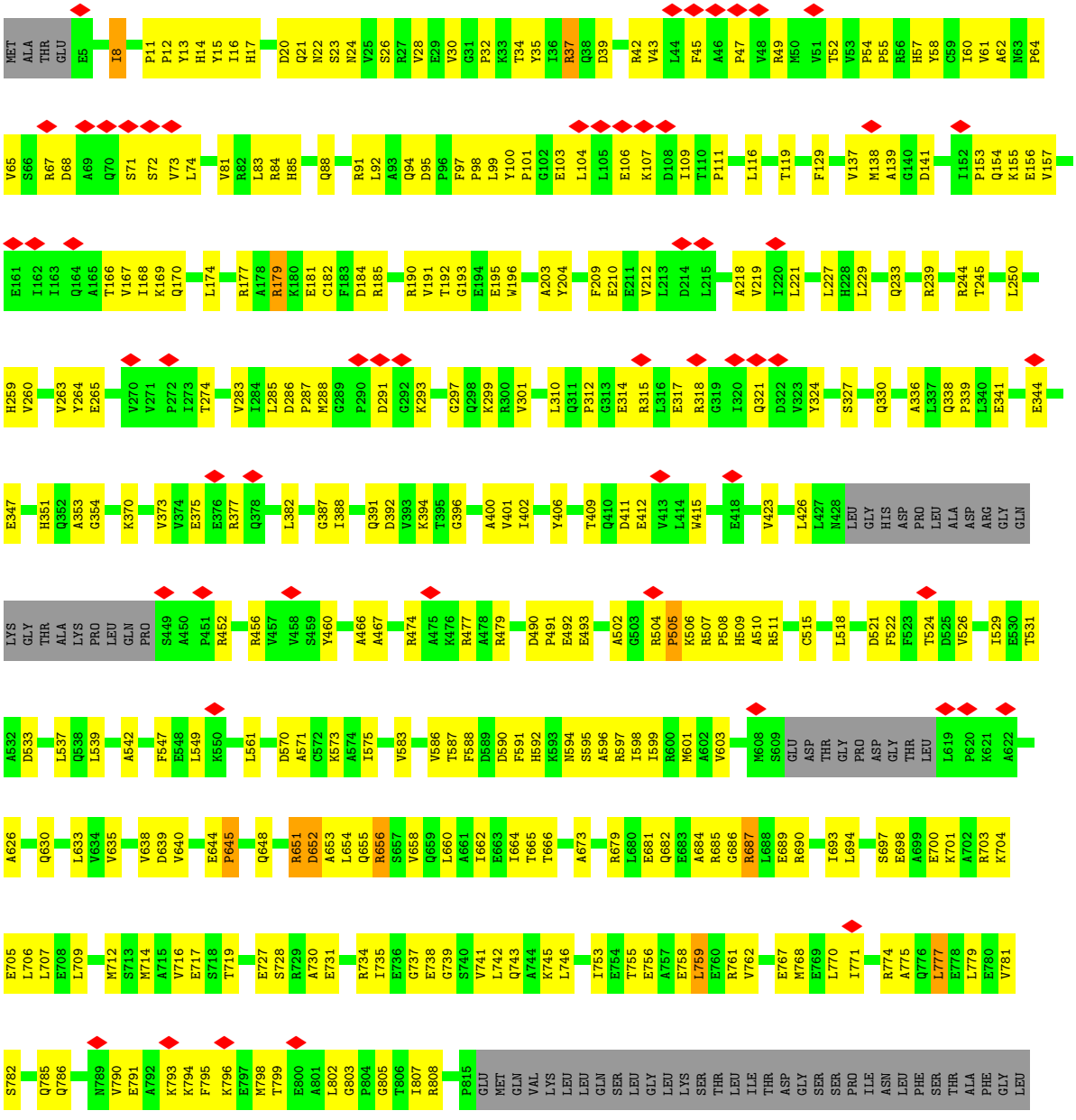
• Molecule 1: Major vault protein



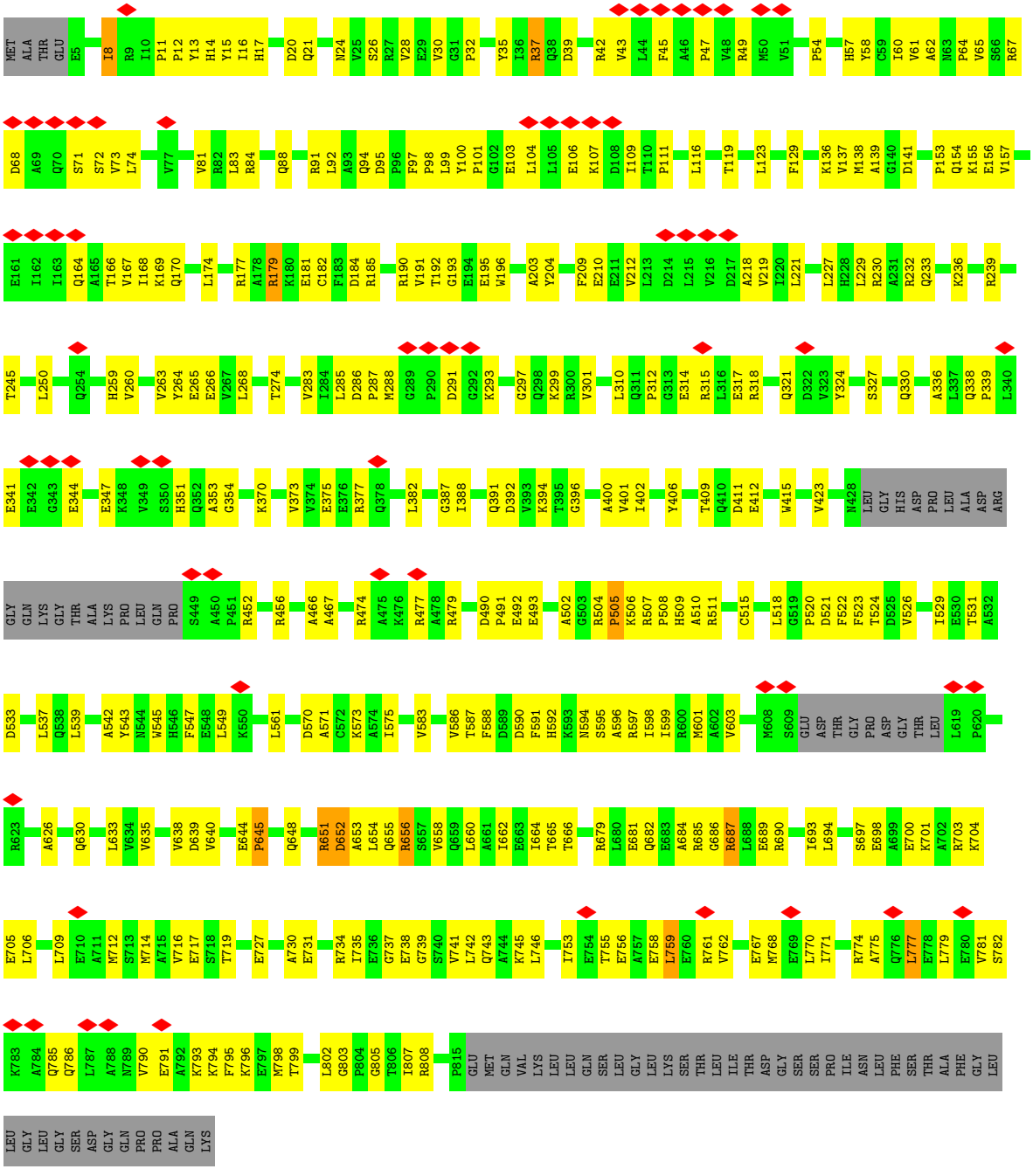


• Molecule 1: Major vault protein

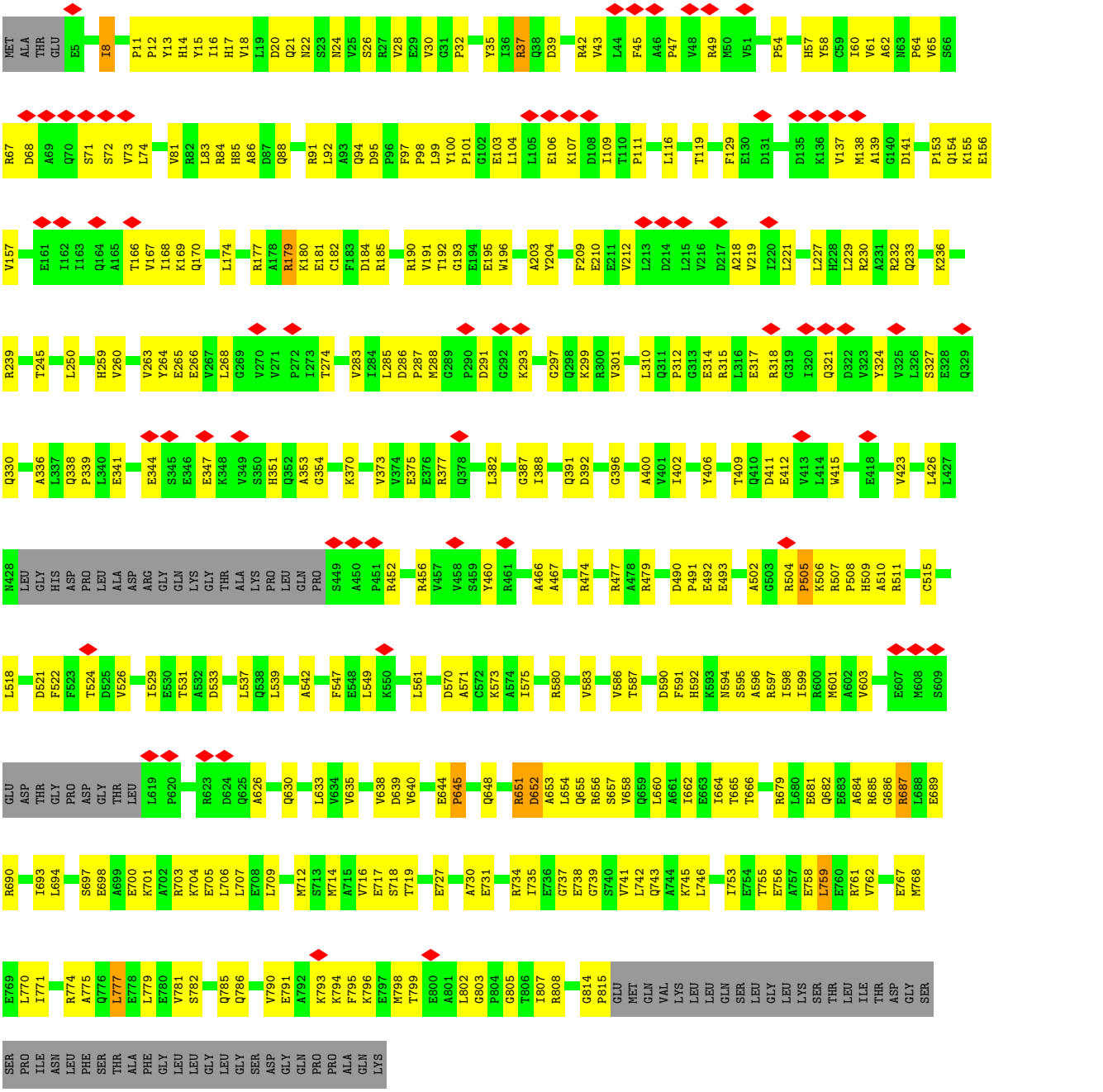
Chain V:



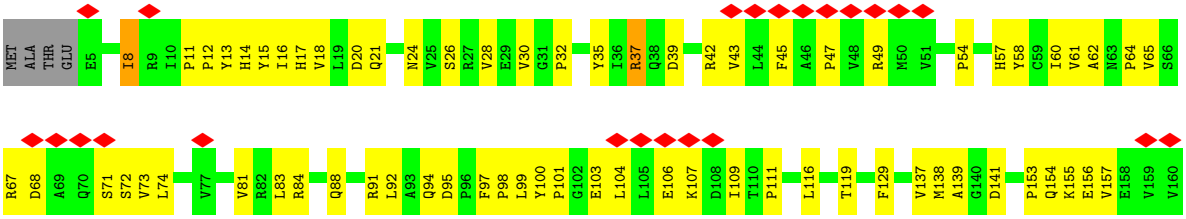
• Molecule 1: Major vault protein

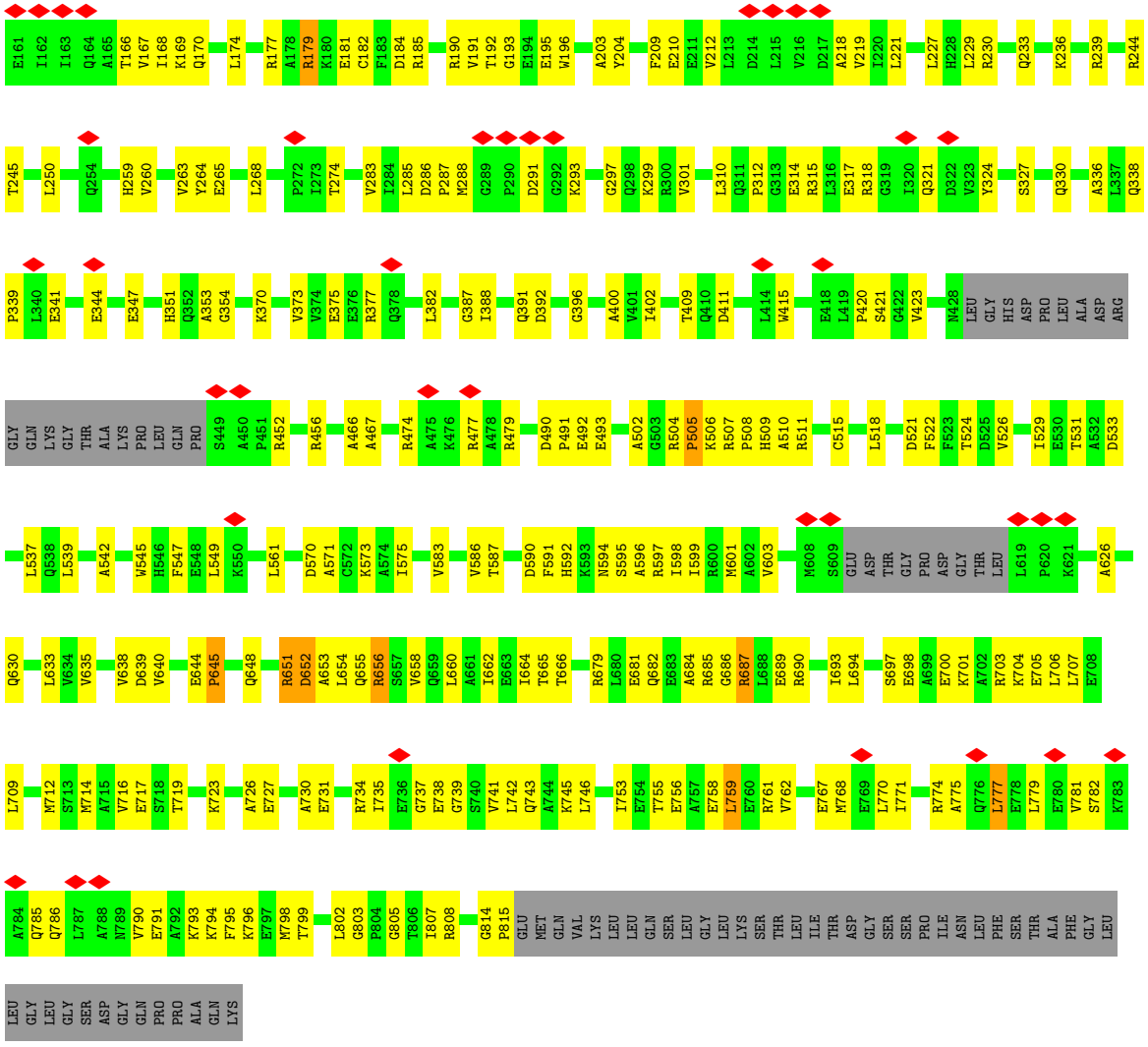


• Molecule 1: Major vault protein



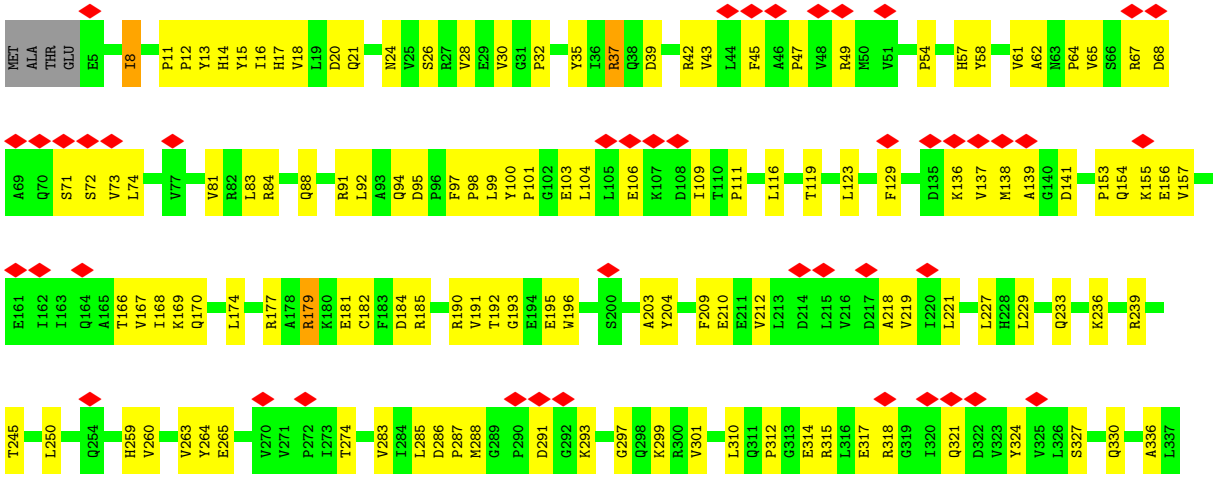
• Molecule 1: Major vault protein

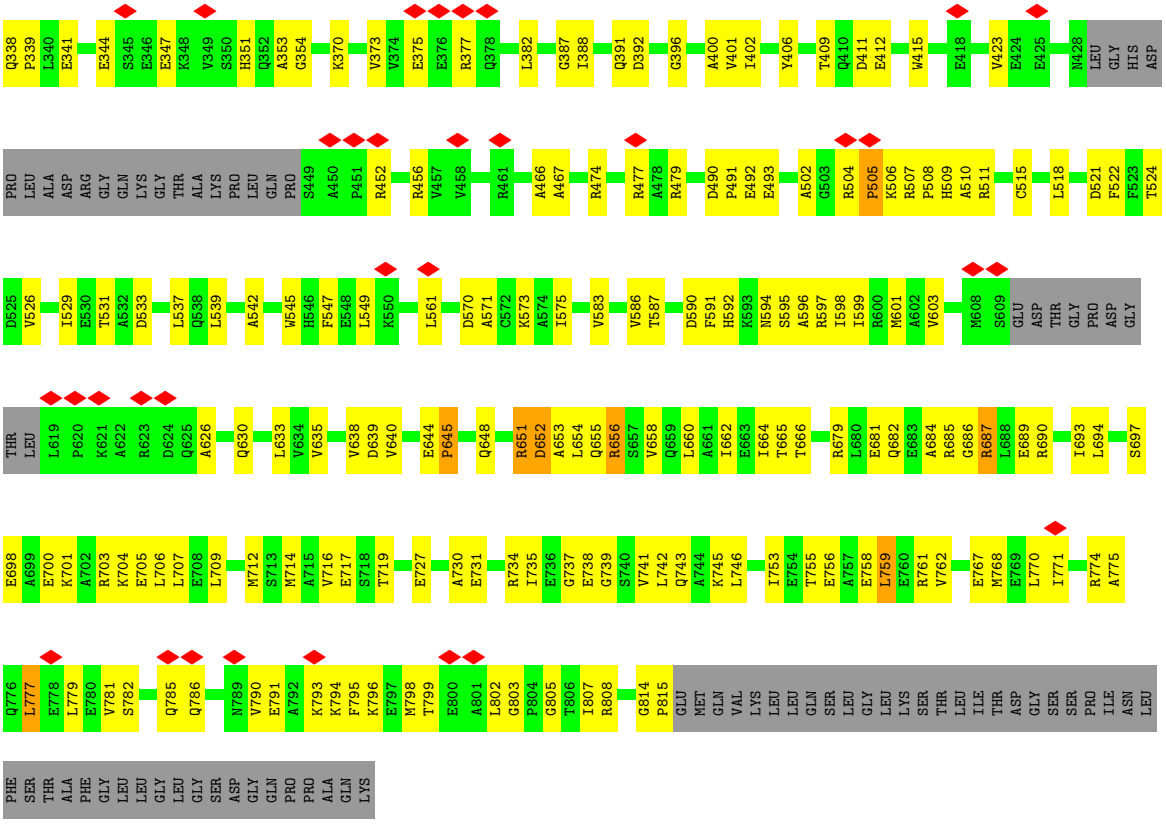




• Molecule 1: Major vault protein

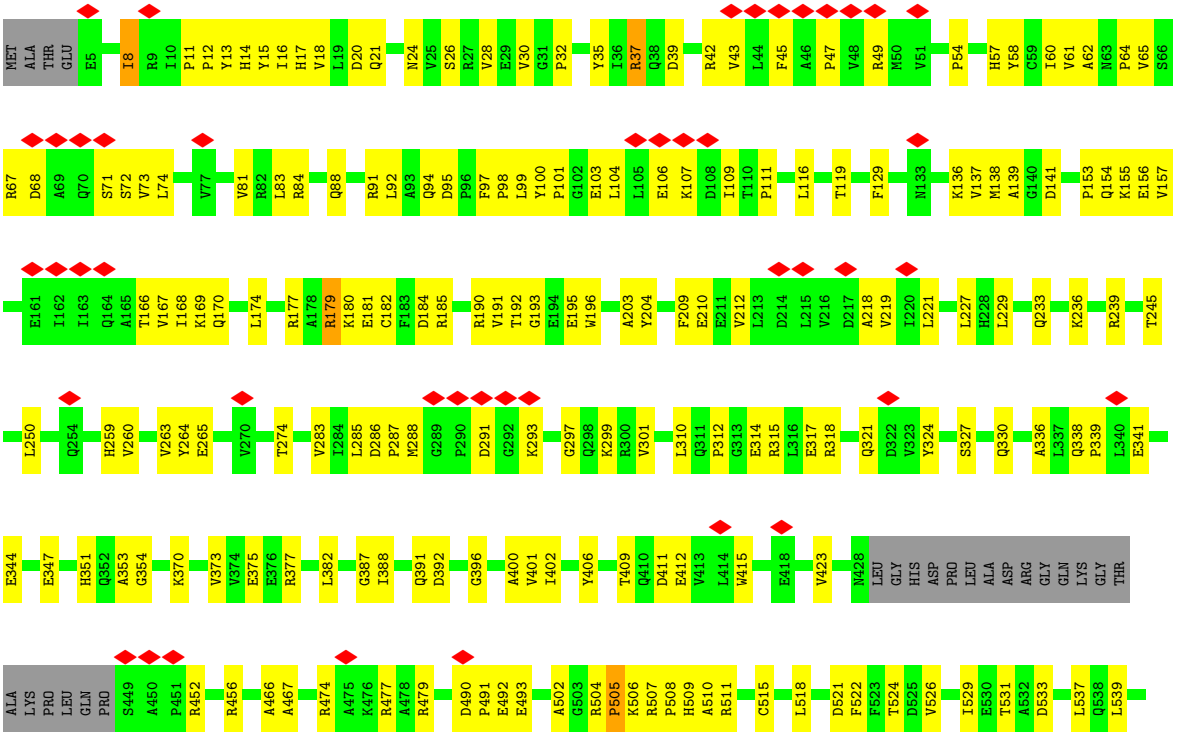
Chain Z:

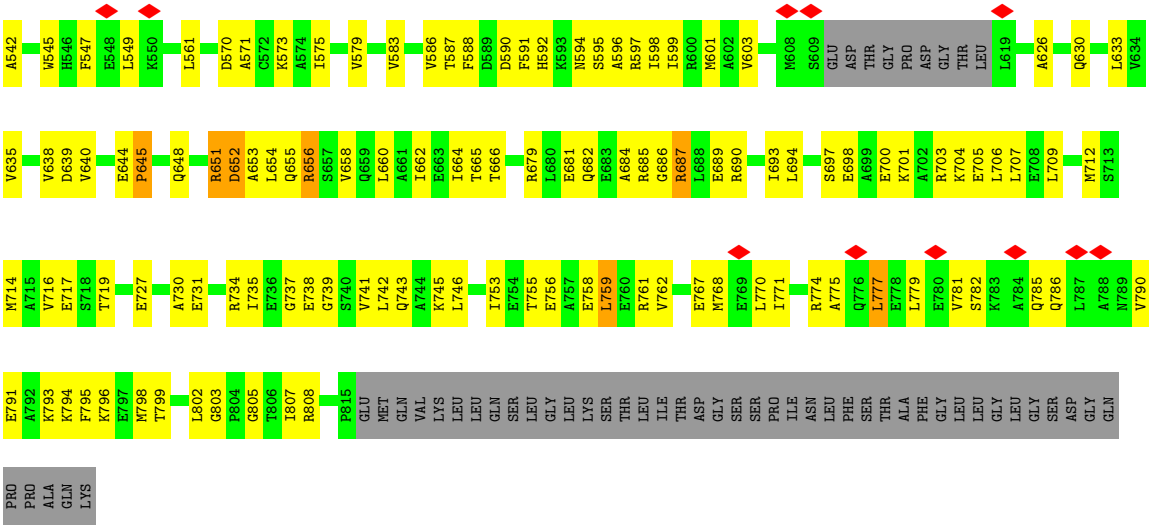




• Molecule 1: Major vault protein

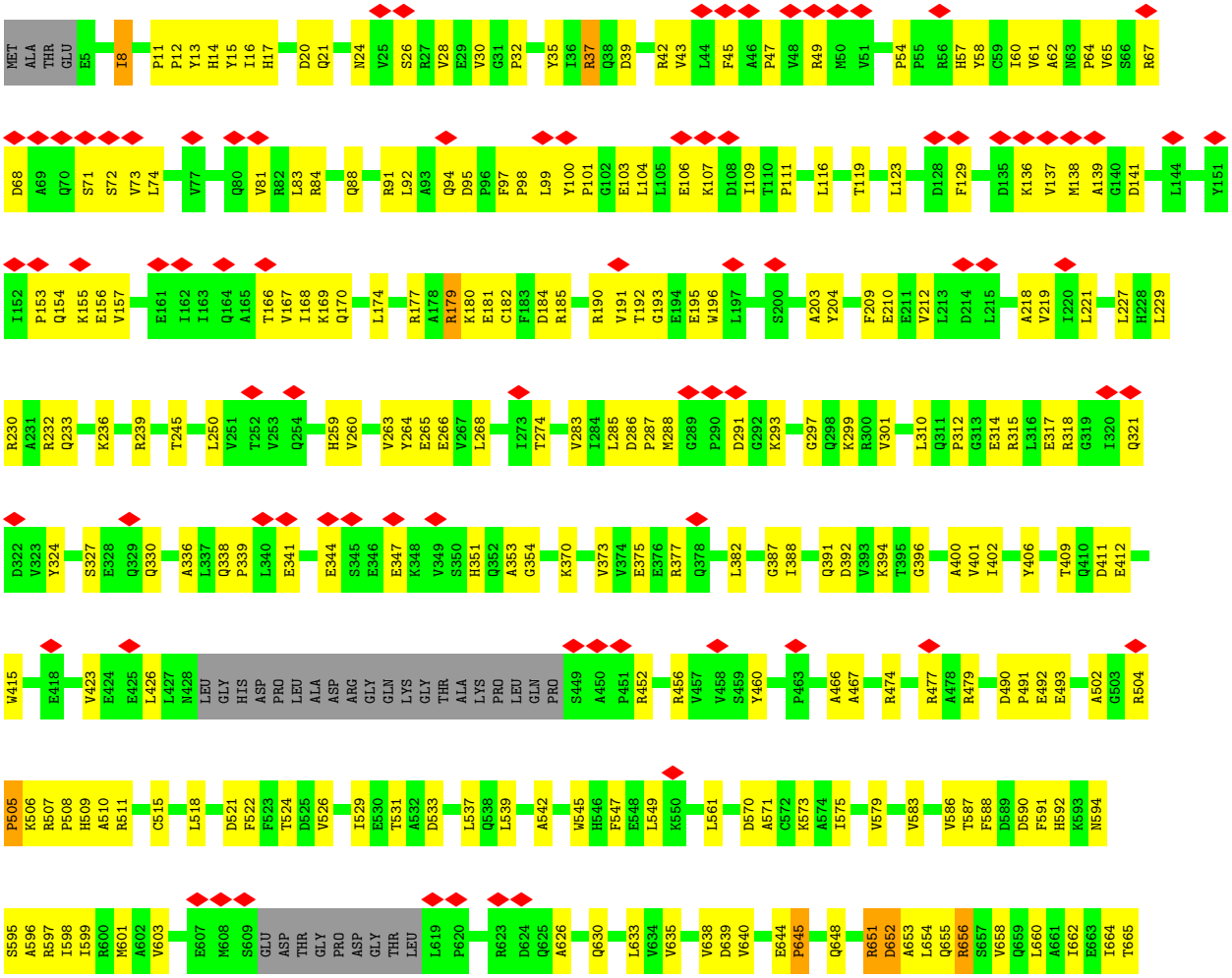
Chain AA:

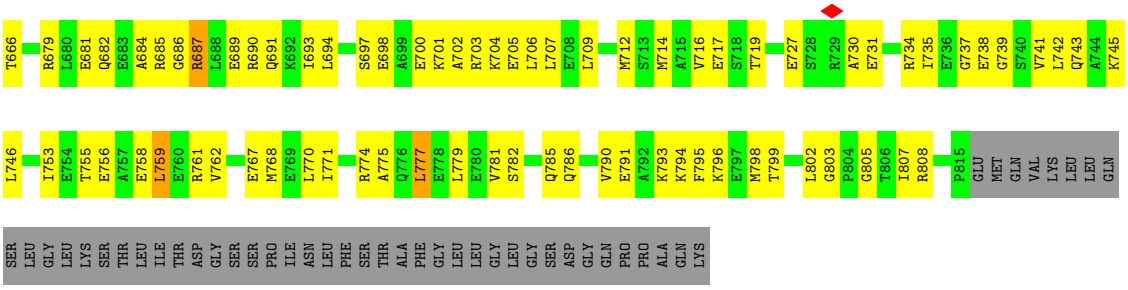




• Molecule 1: Major vault protein

Chain BA:





• Molecule 1: Major vault protein

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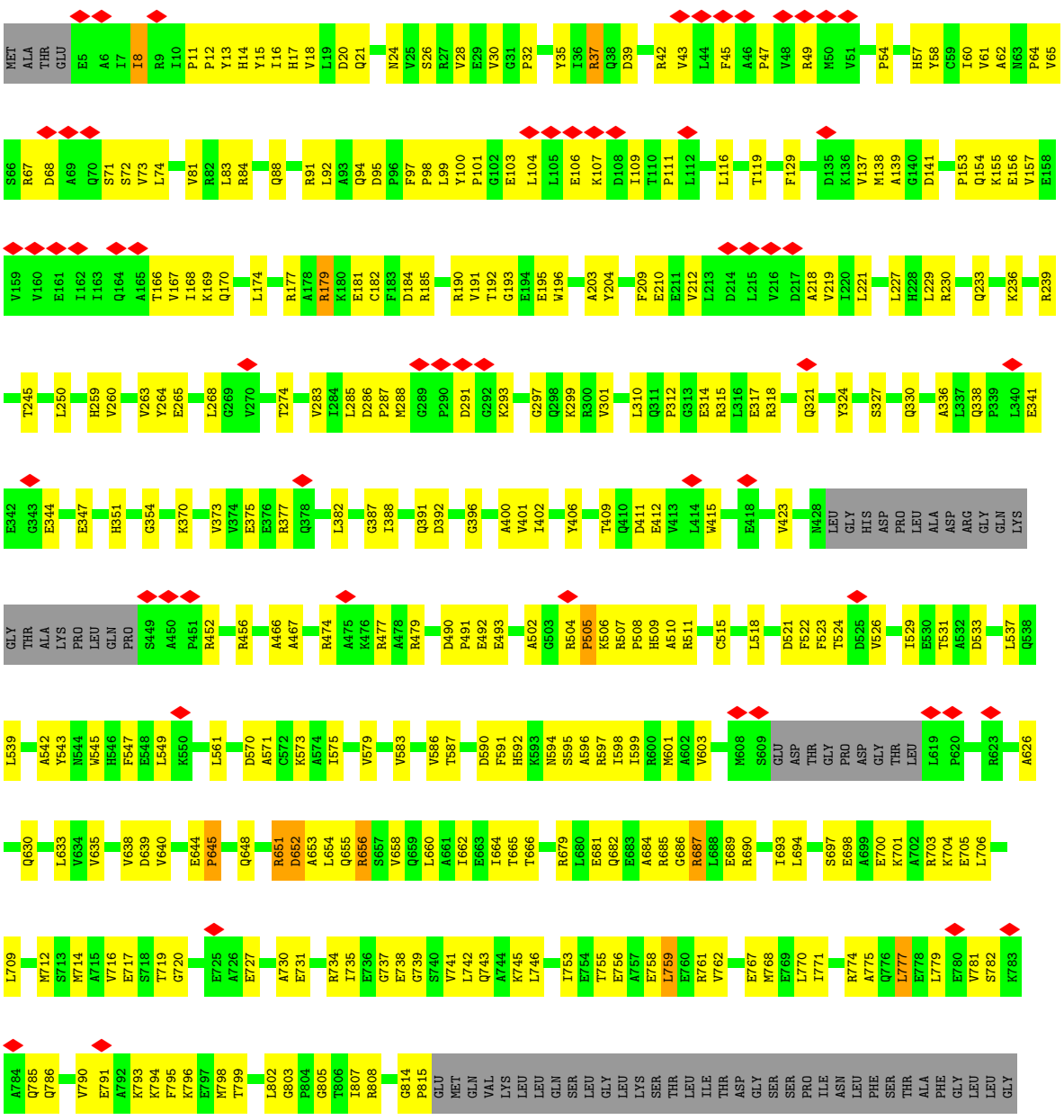

• Molecule 1: Major vault protein

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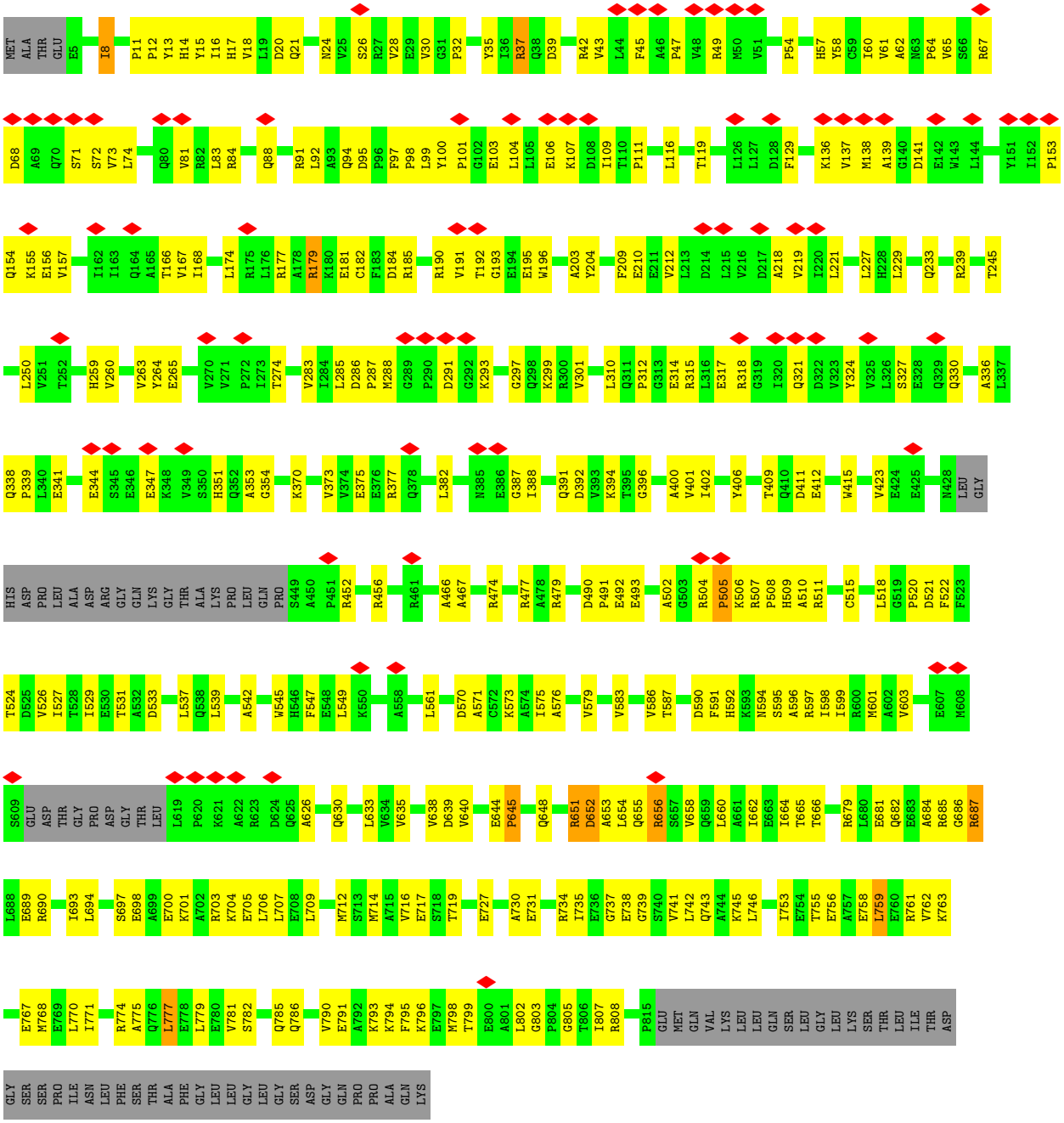

• Molecule 1: Major vault protein

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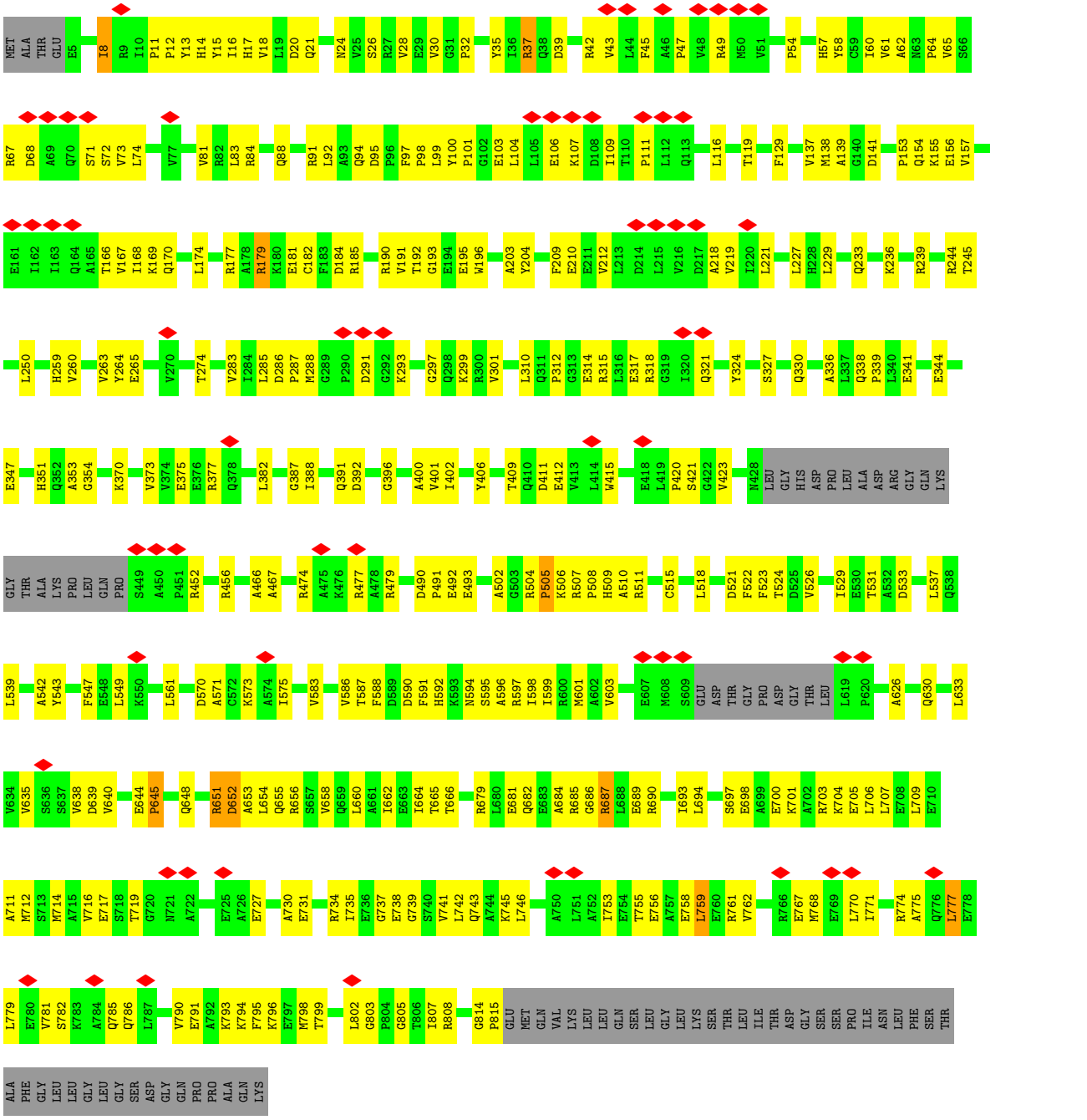
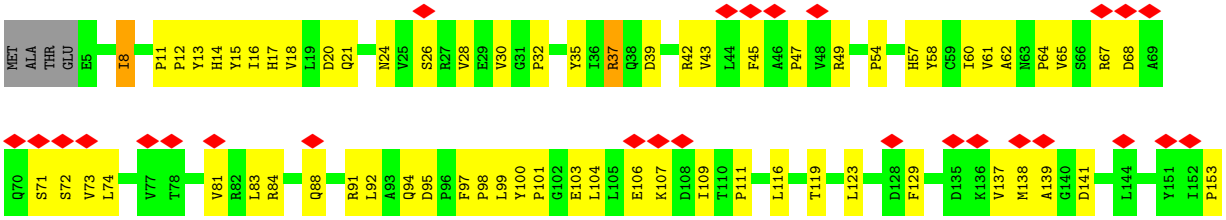
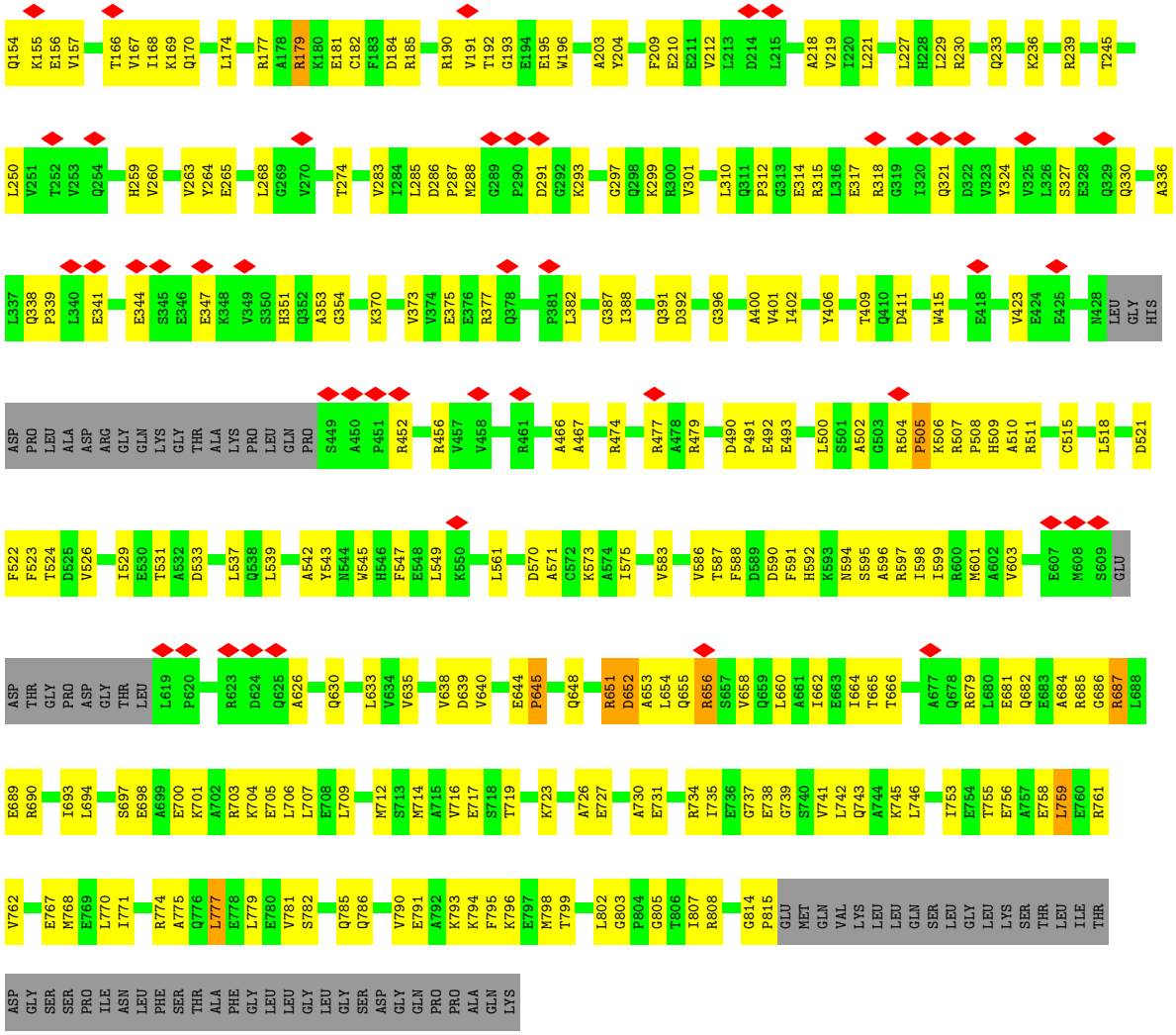


• Molecule 1: Major vault protein





• Molecule 1: Major vault protein

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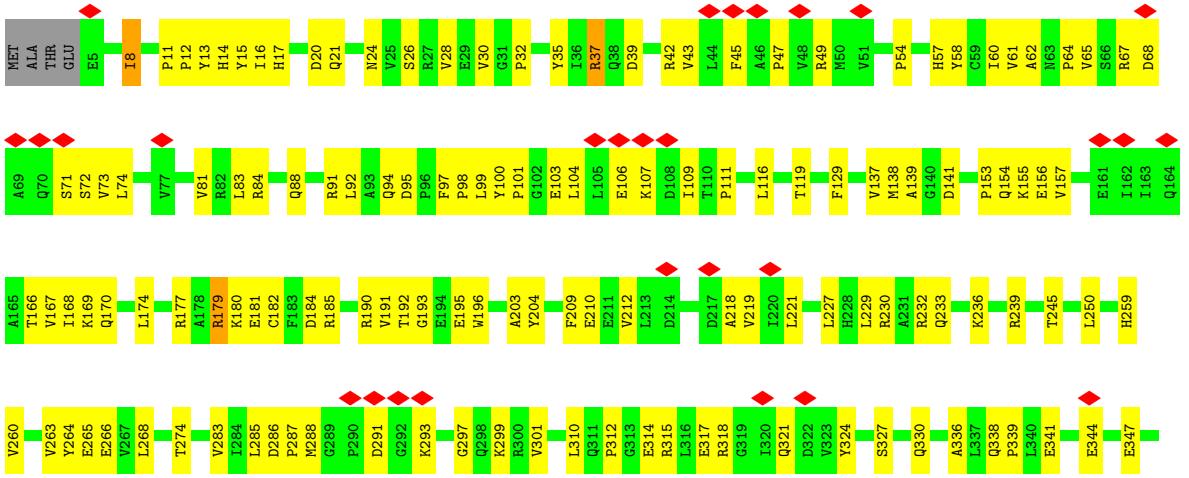
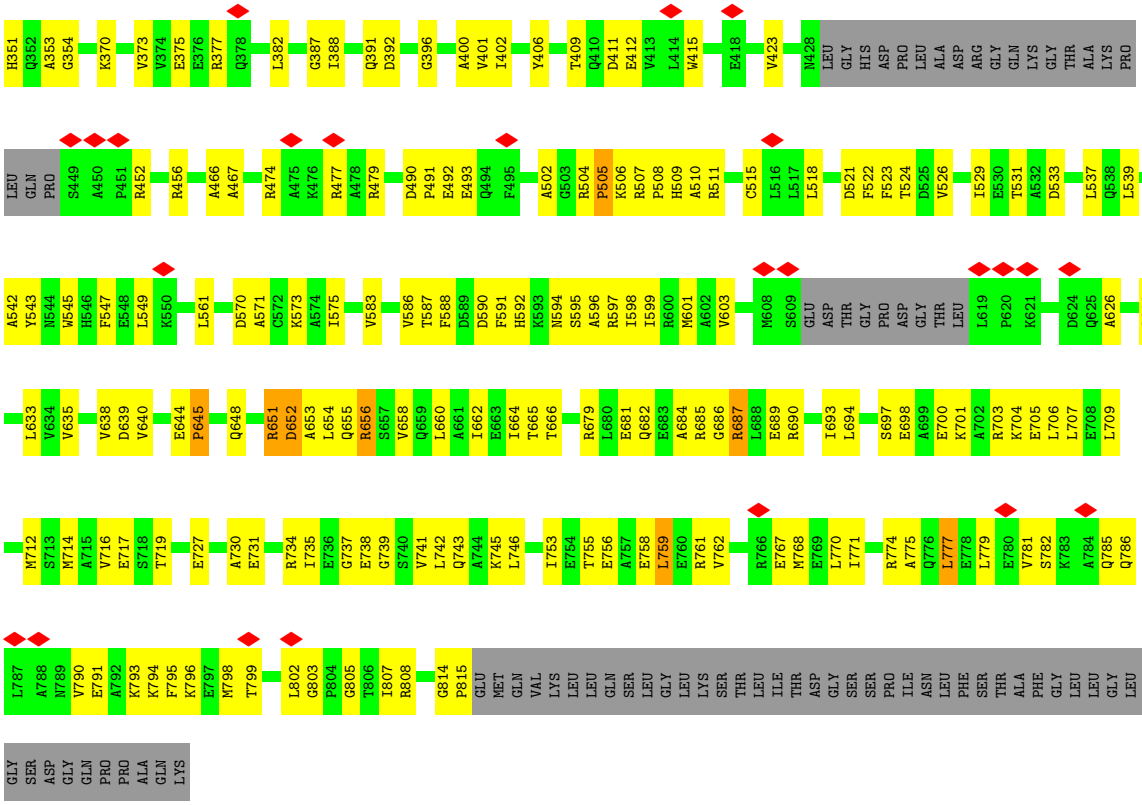
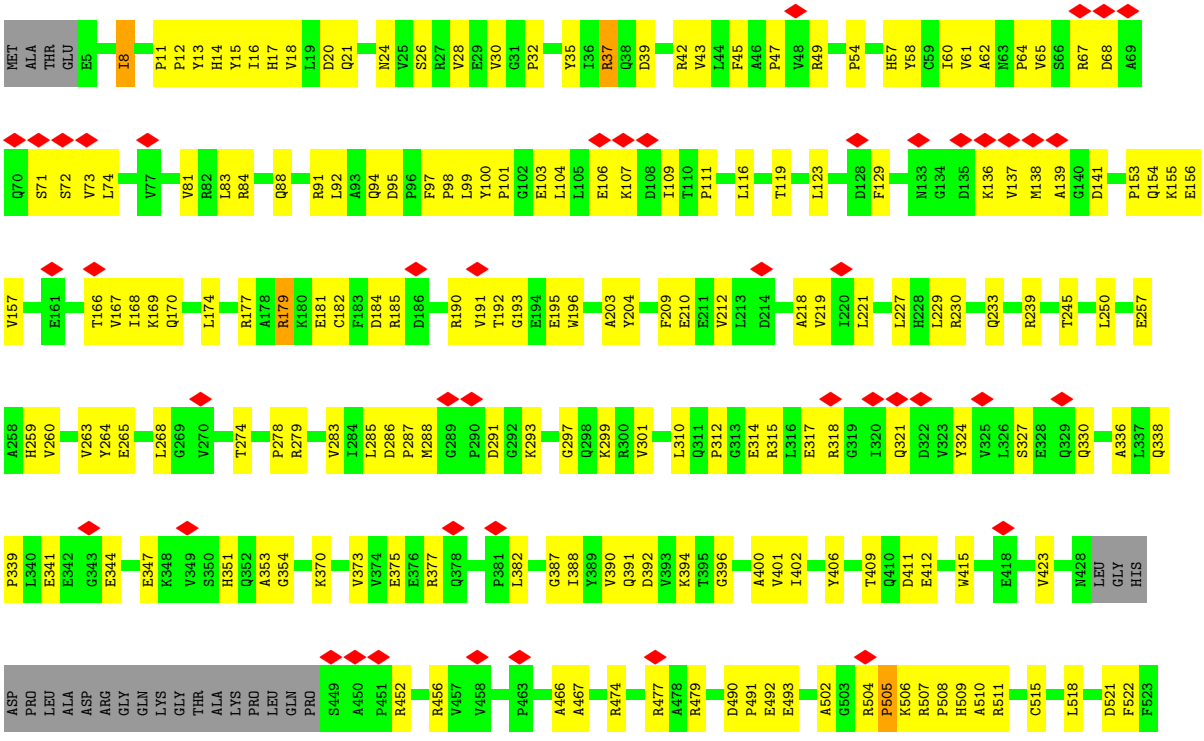
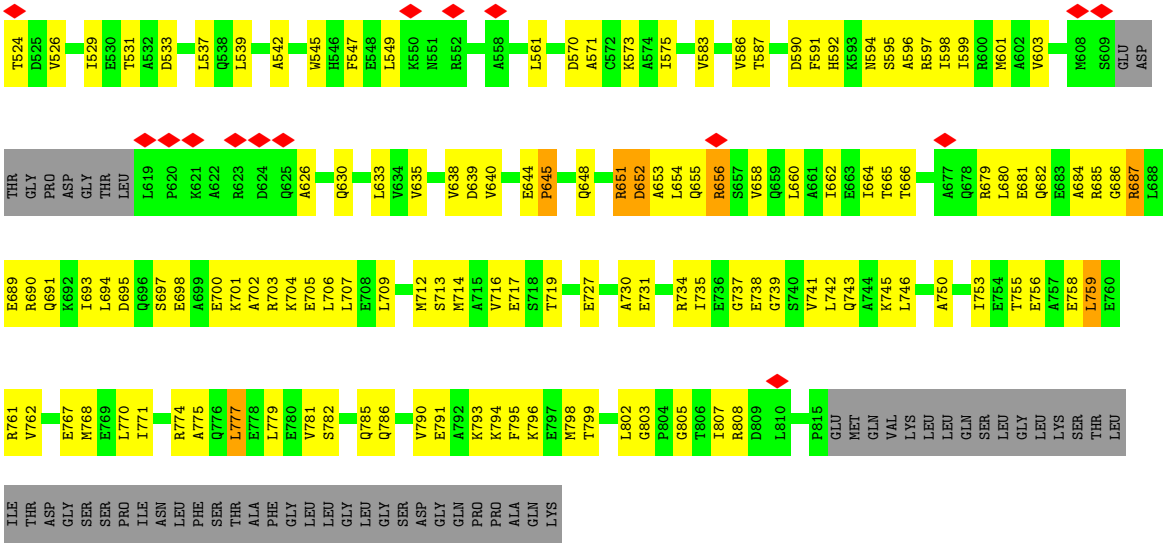




• Molecule 1: Major vault protein

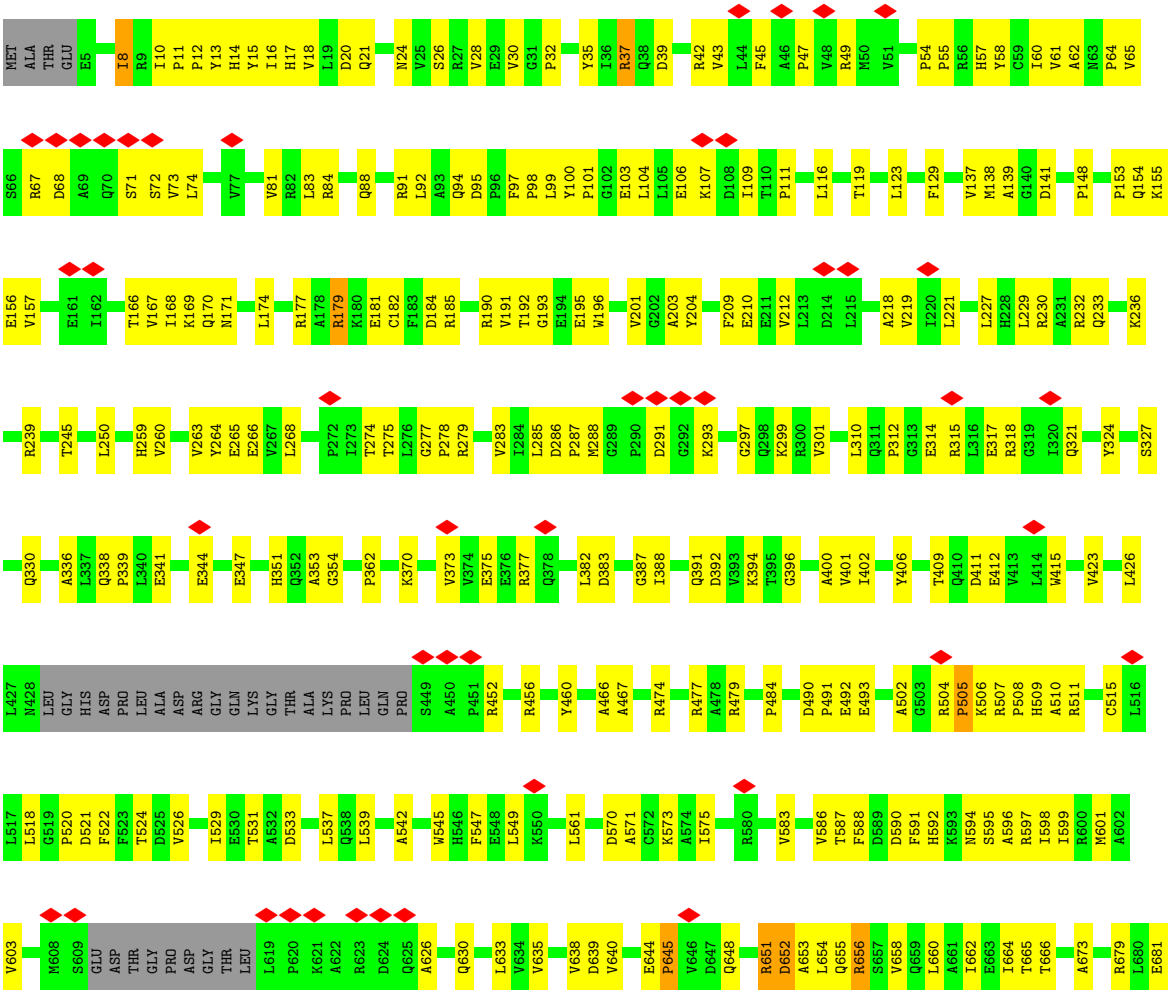
Chain HA:

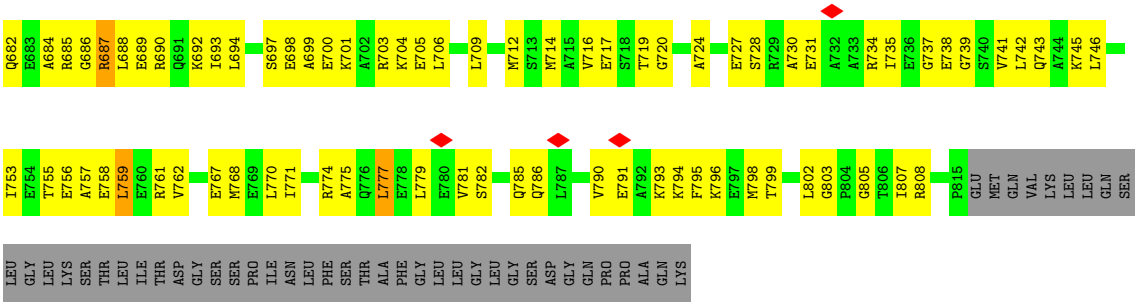




• Molecule 1: Major vault protein

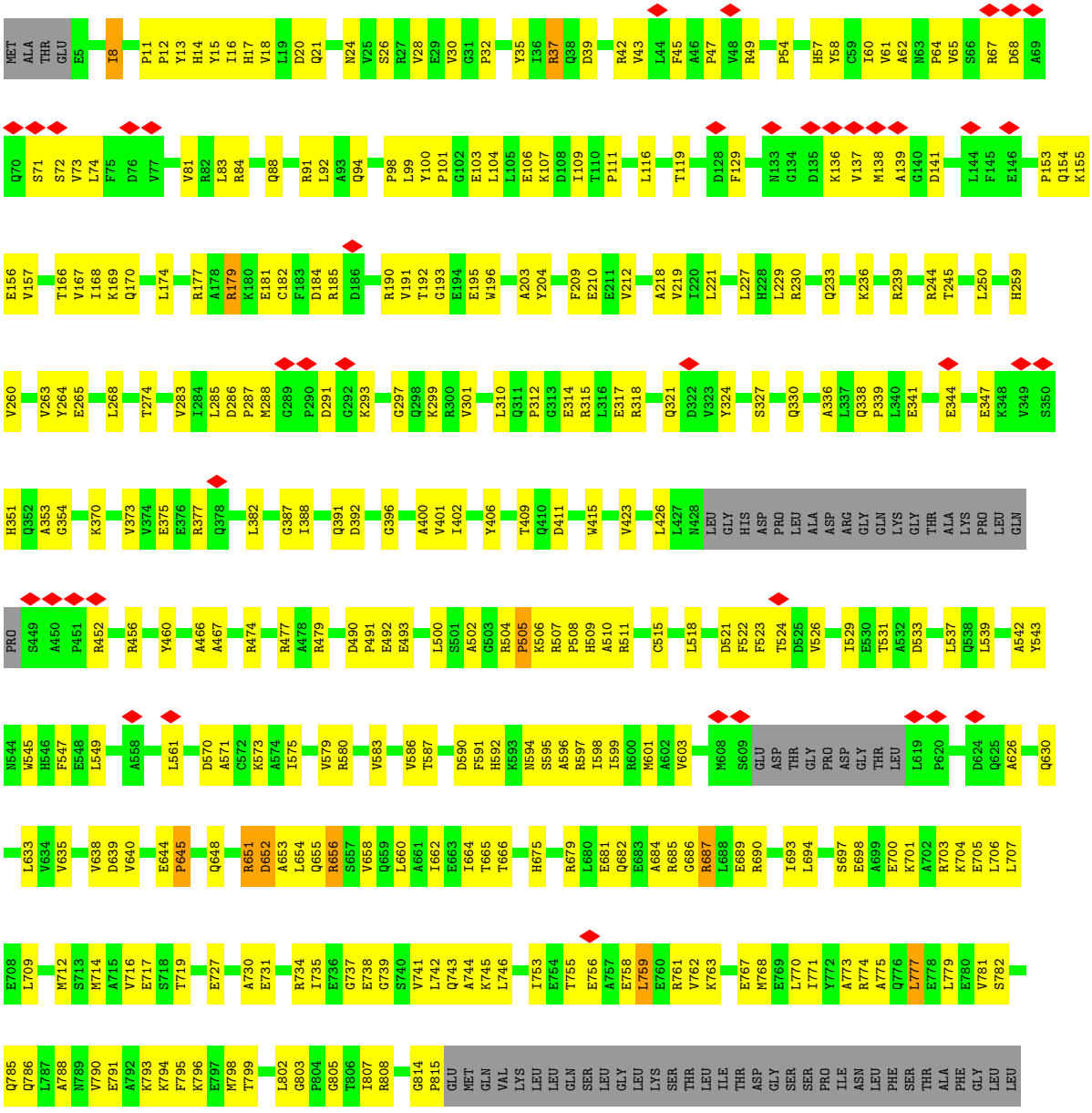
Chain IA:





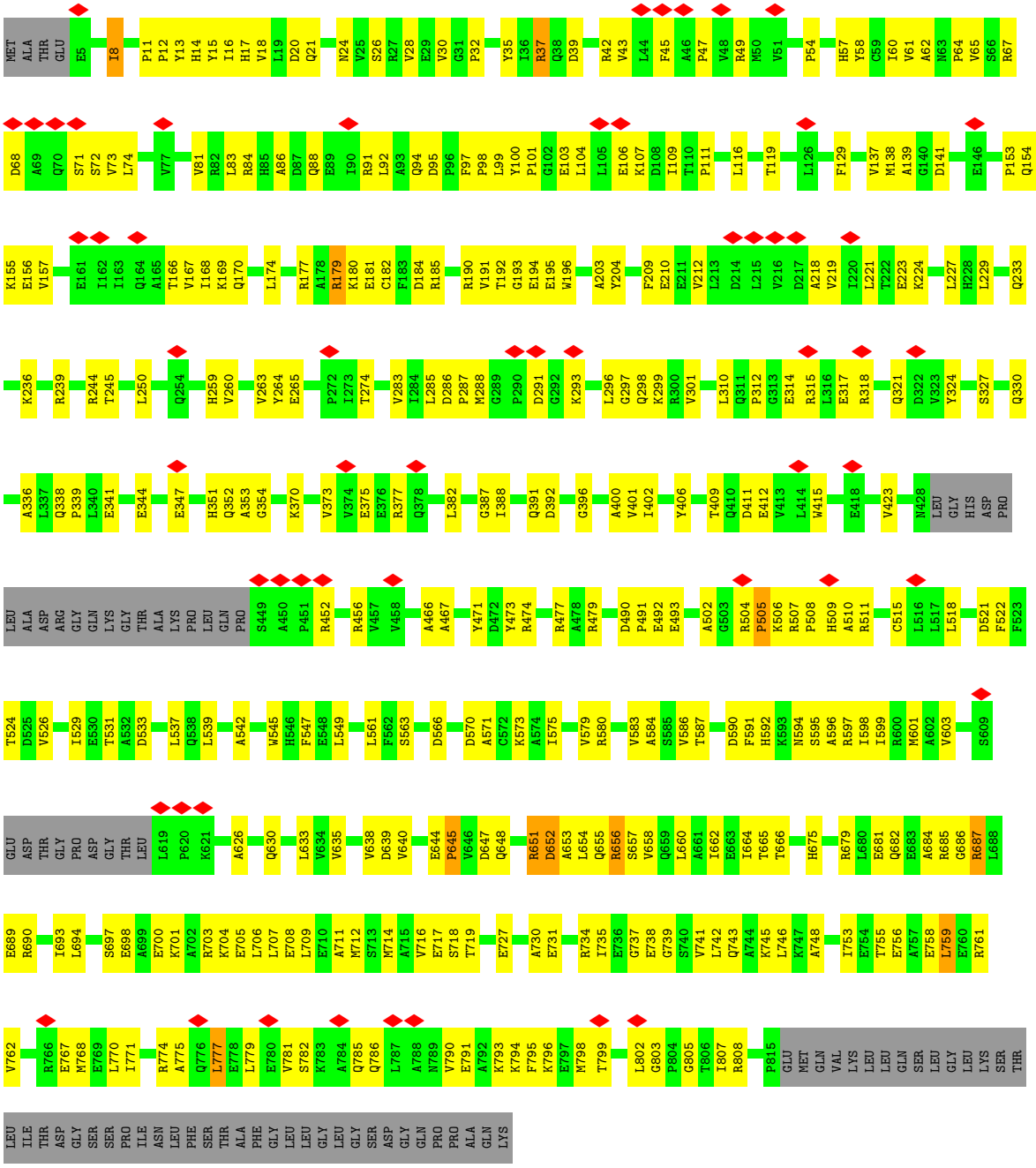
• Molecule 1: Major vault protein

Chain JA:



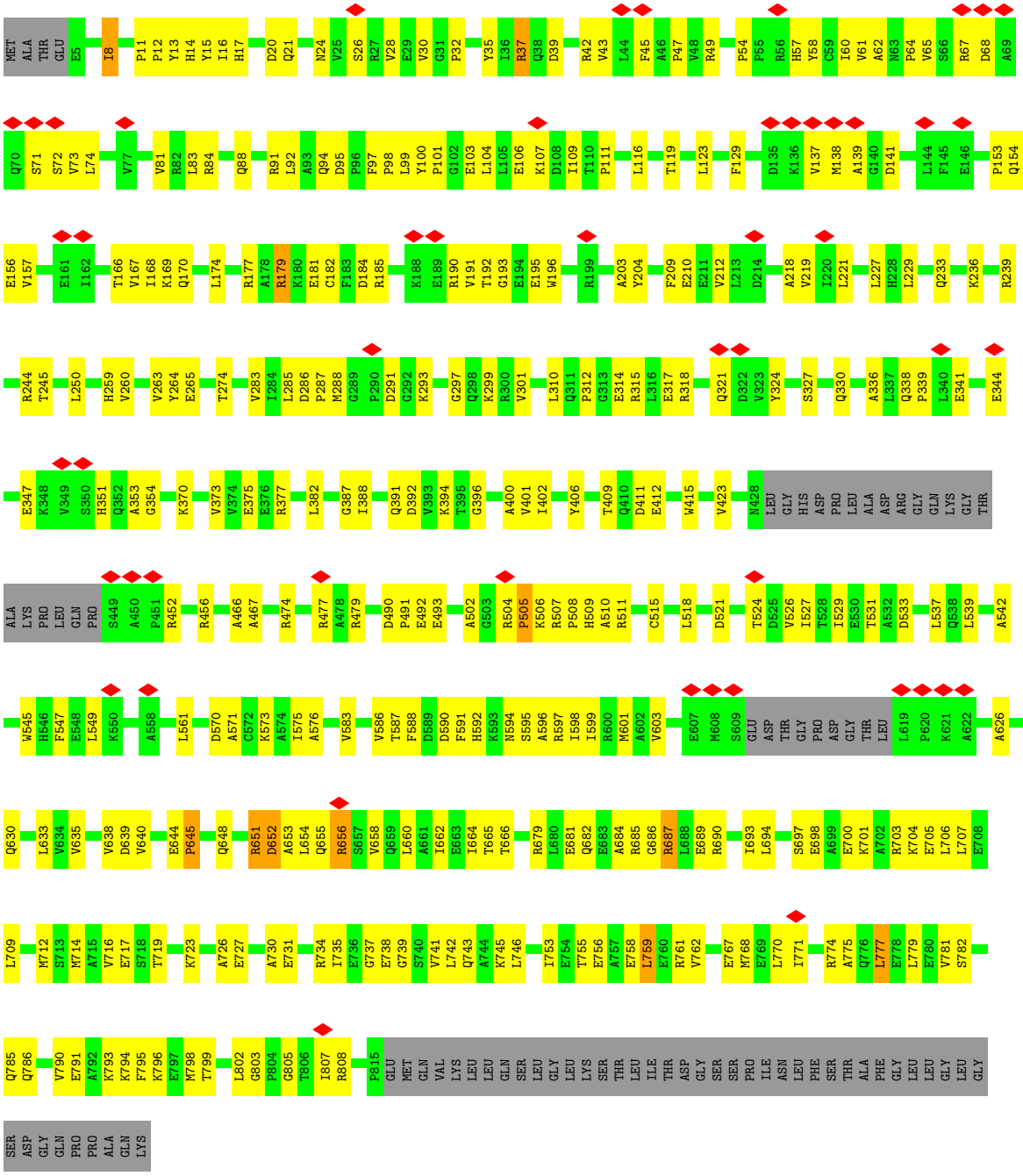
• Molecule 1: Major vault protein

Chain KA:



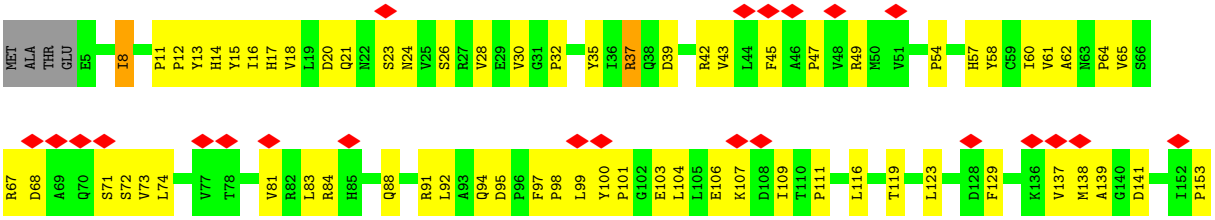
• Molecule 1: Major vault protein

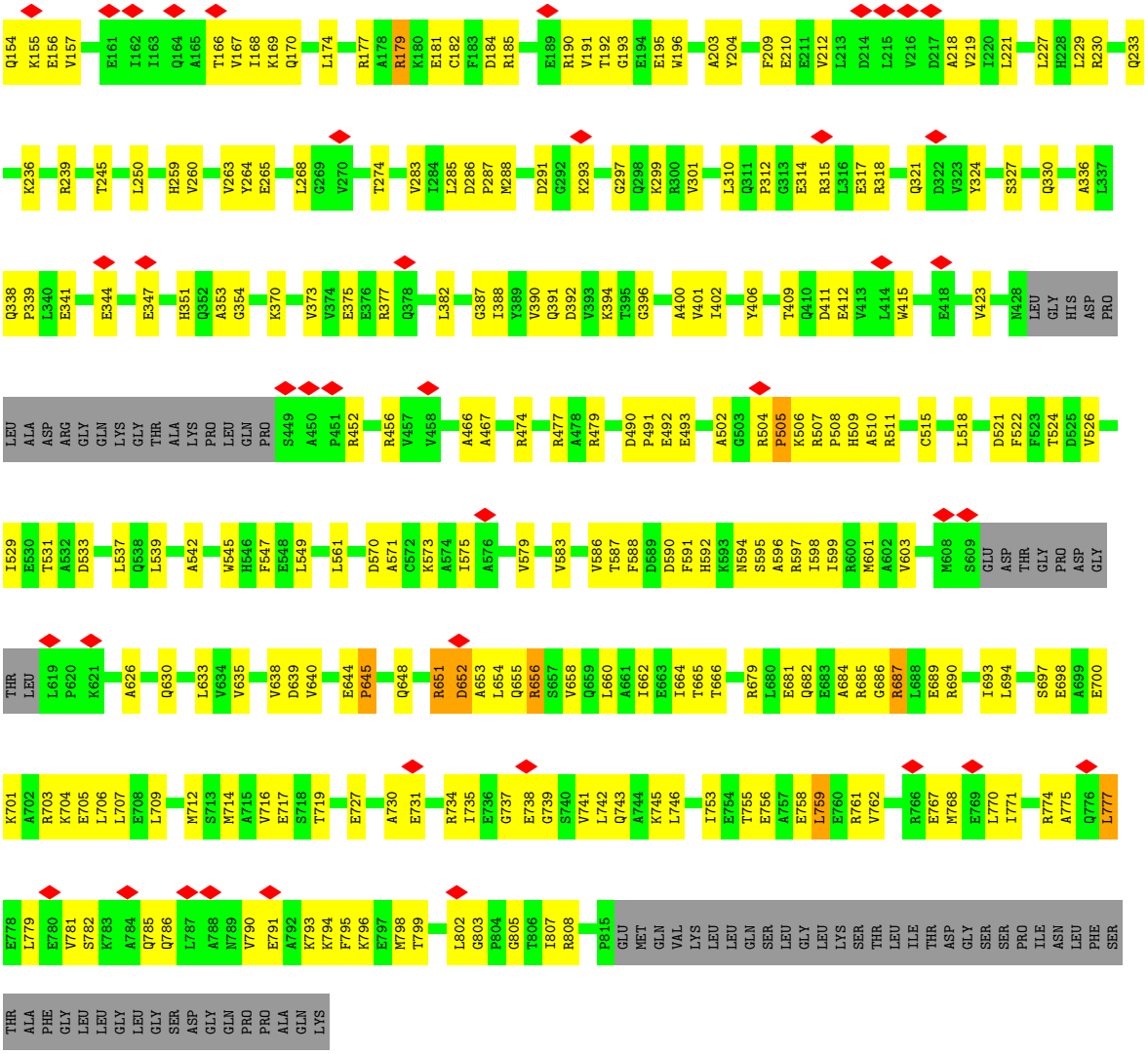
Chain LA:



• Molecule 1: Major vault protein

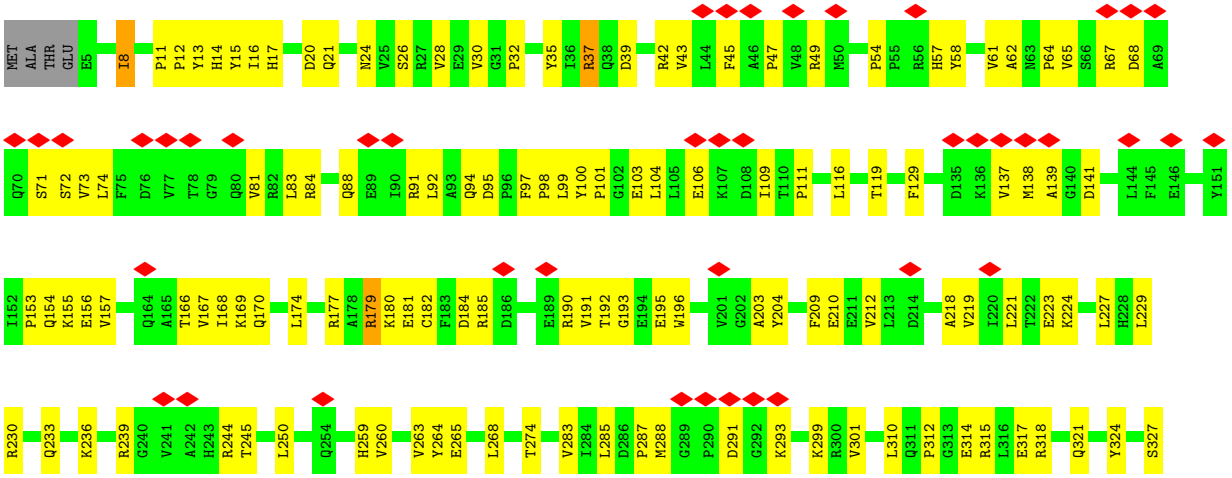
Chain MA:

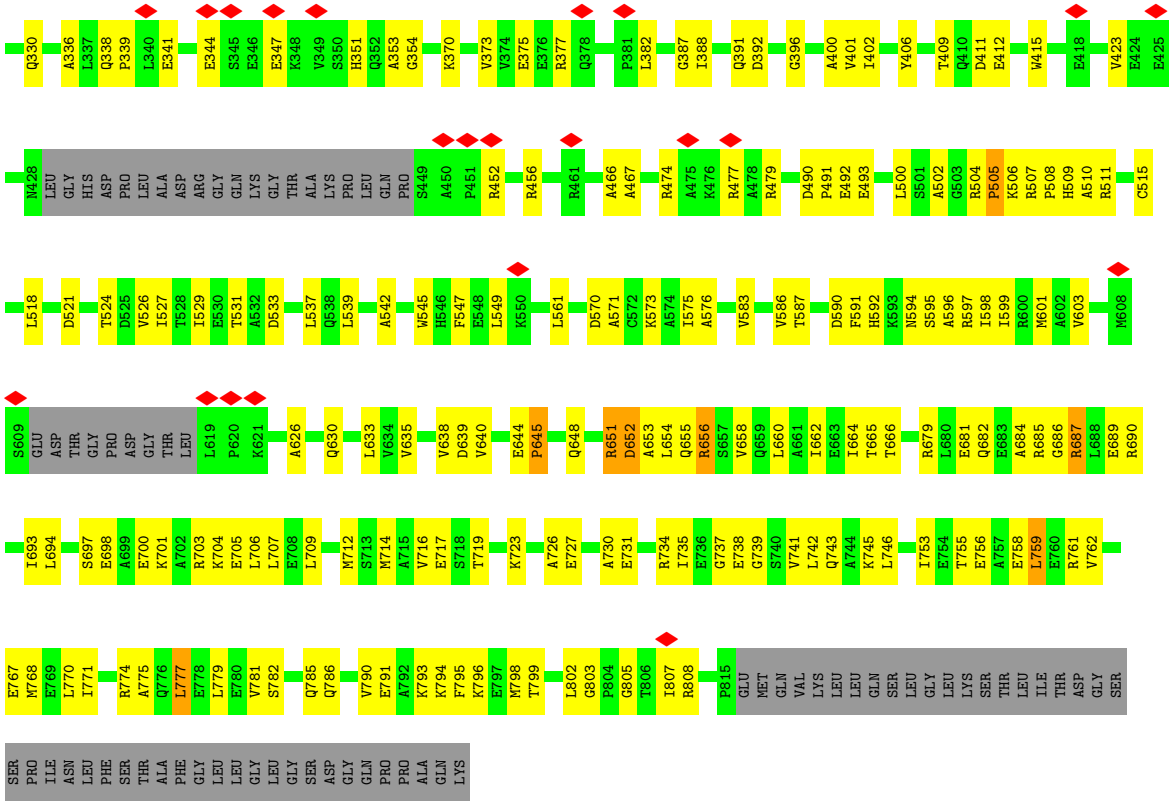




• Molecule 1: Major vault protein

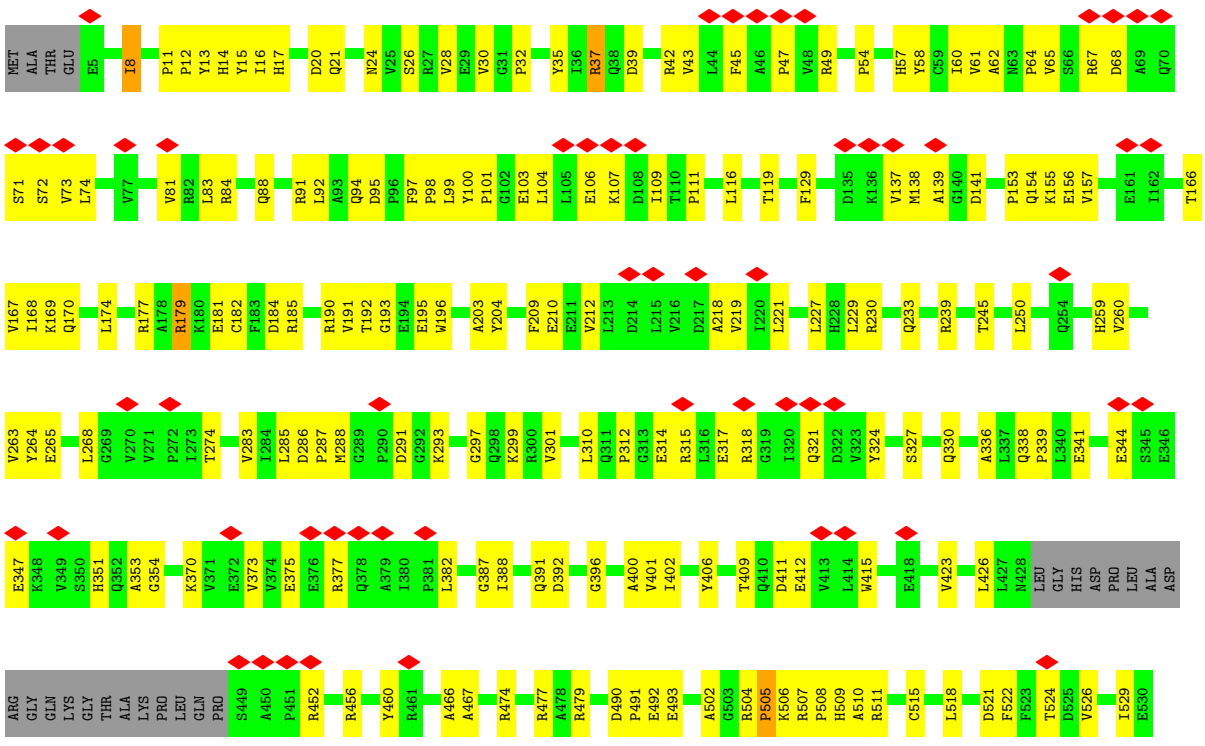
Chain NA:

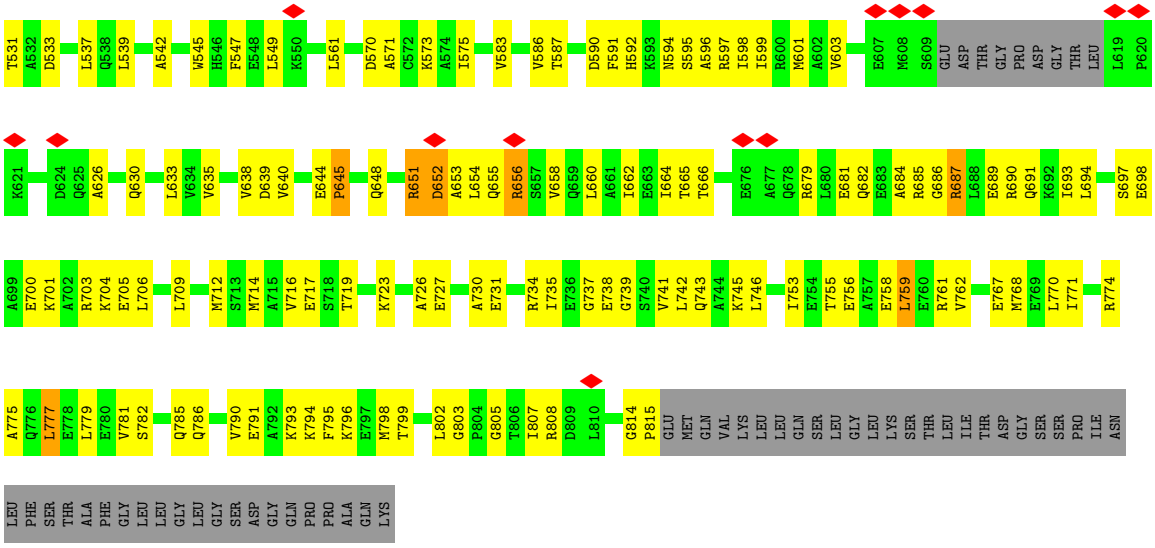




• Molecule 1: Major vault protein

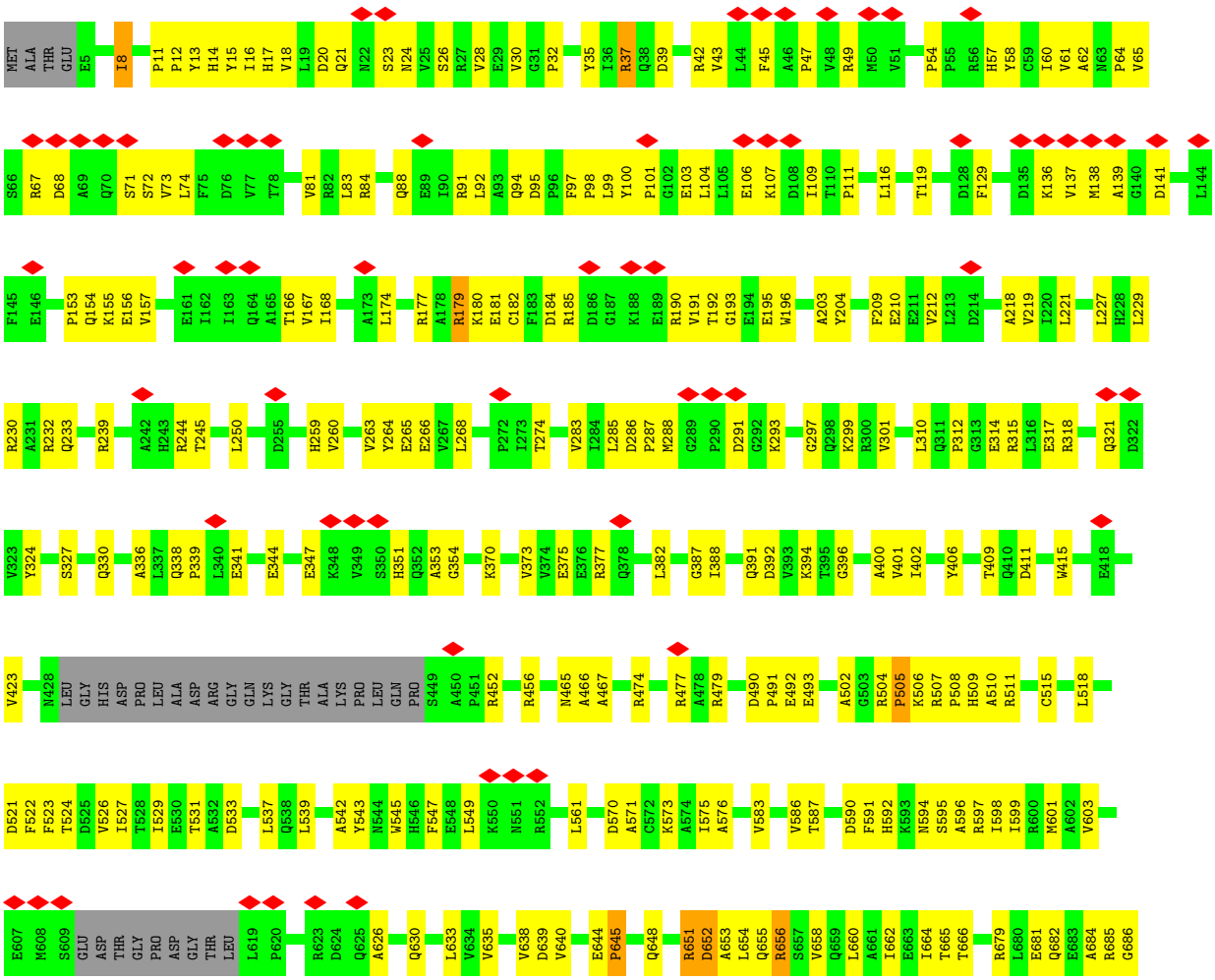
Chain OA:

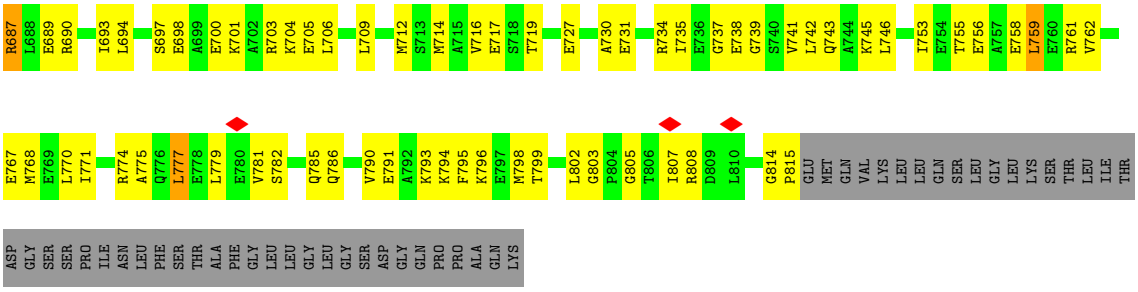




• Molecule 1: Major vault protein

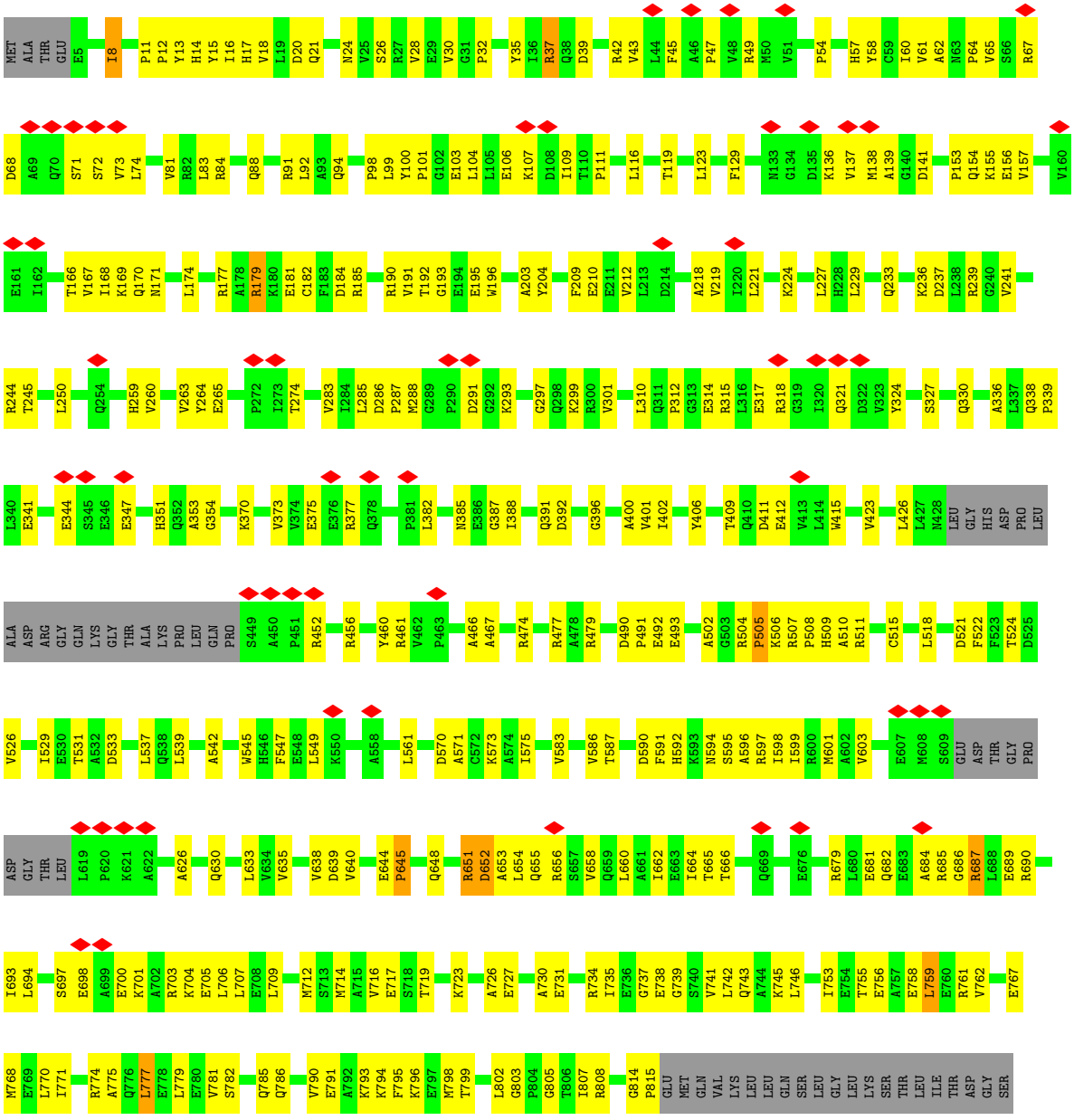
Chain PA:





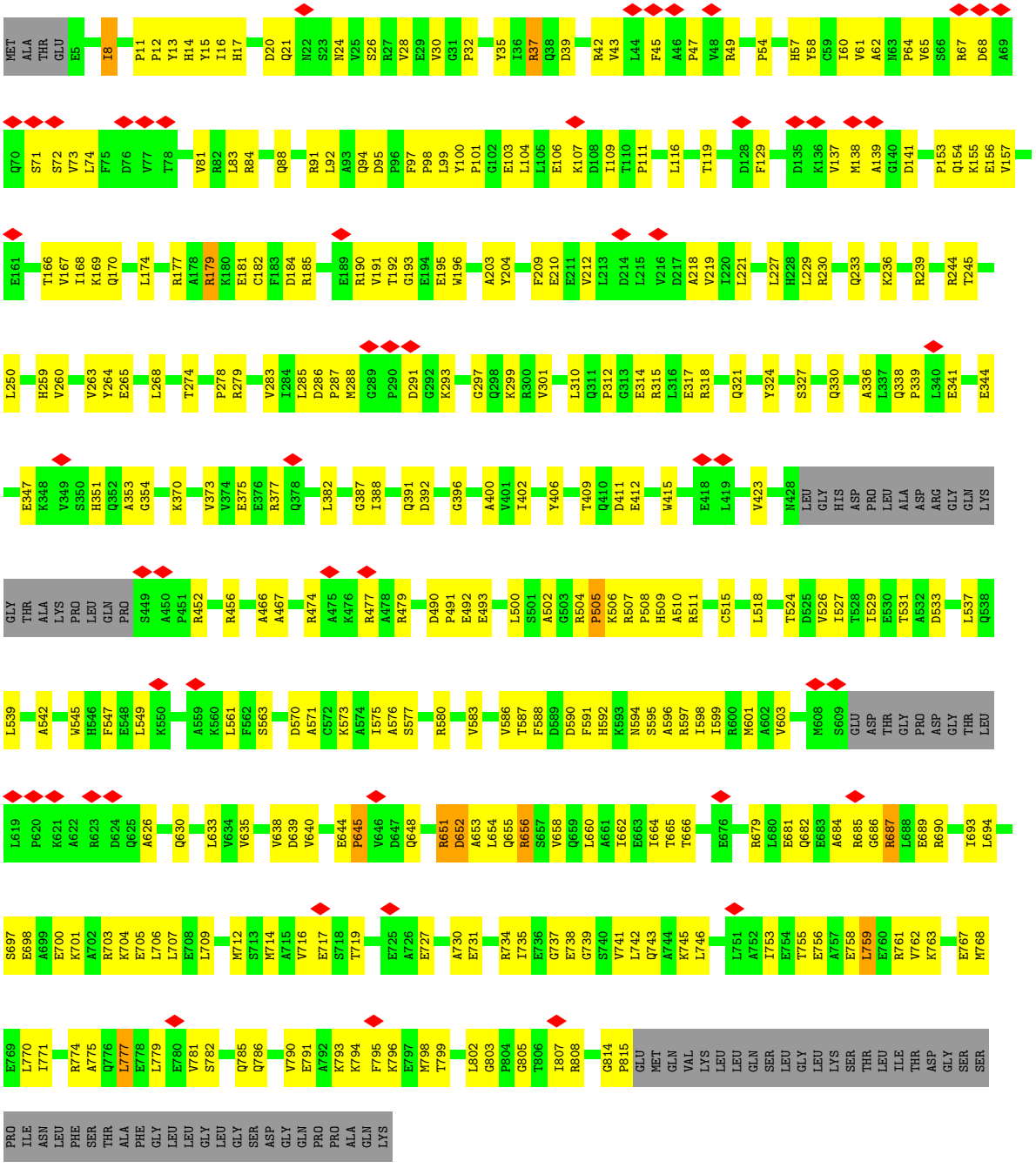
• Molecule 1: Major vault protein

Chain QA:



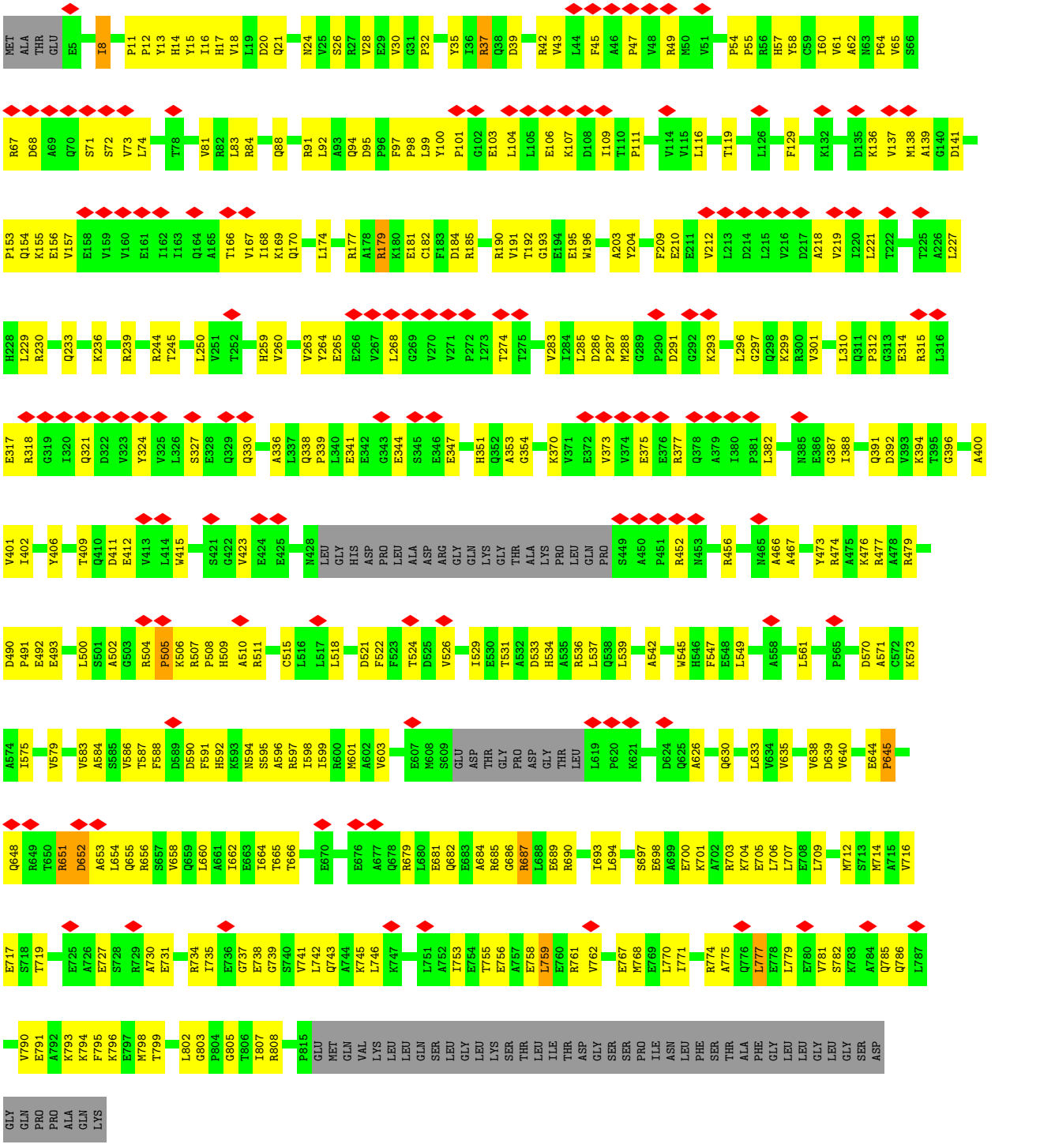
• Molecule 1: Major vault protein

Chain RA:

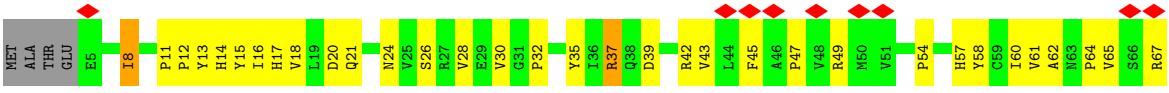


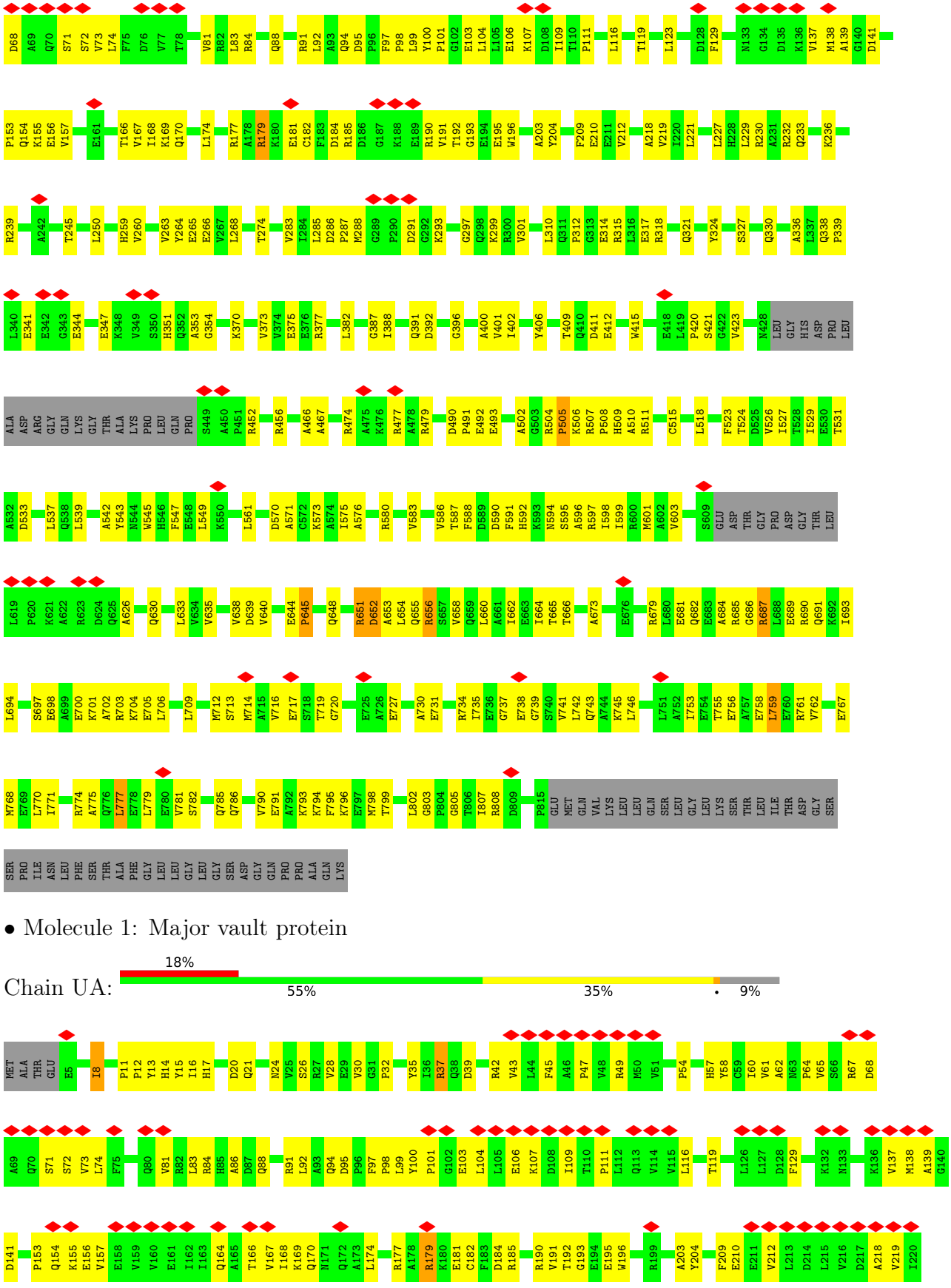
• Molecule 1: Major vault protein

Chain SA:



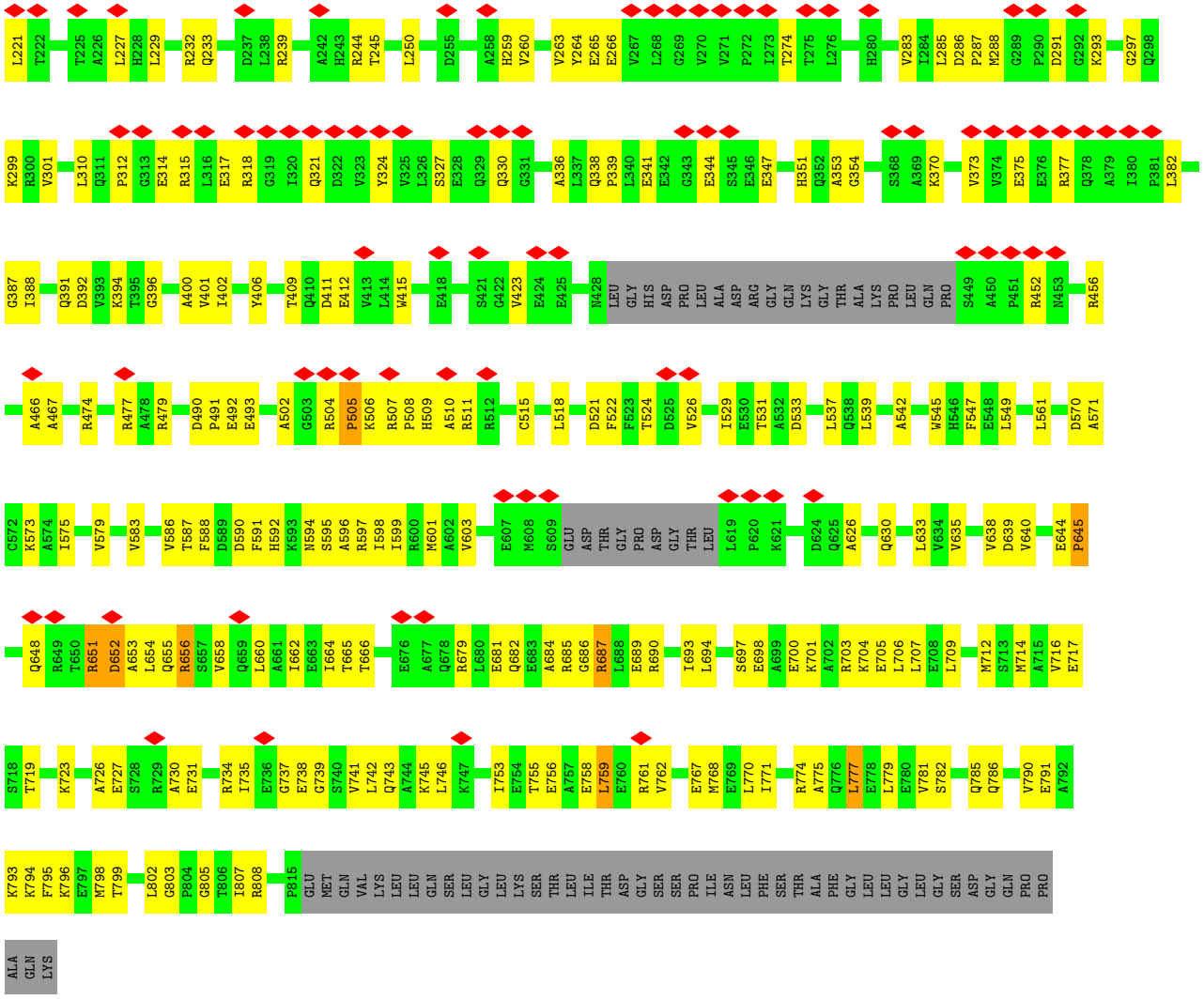
• Molecule 1: Major vault protein





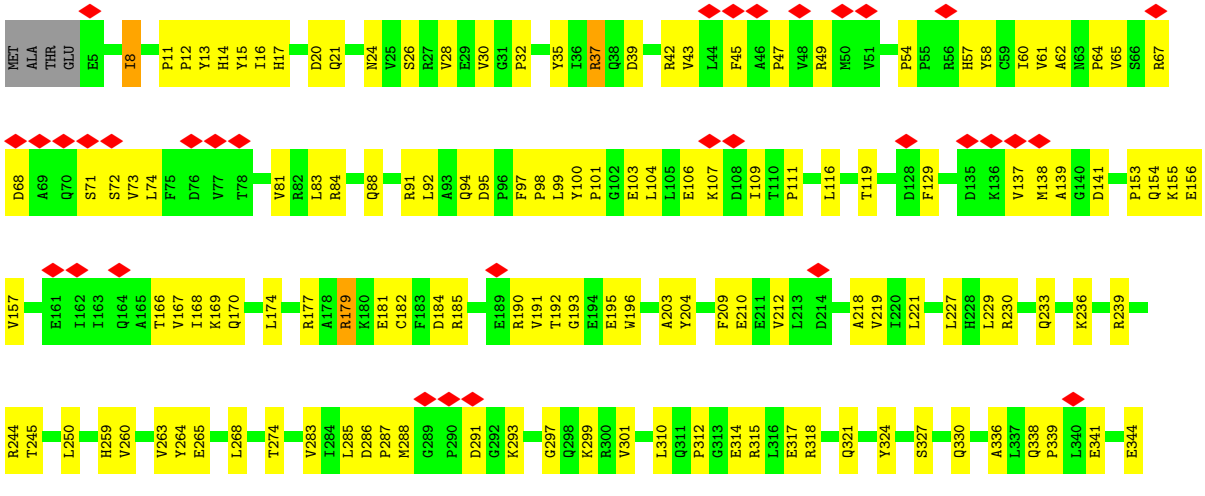
• Molecule 1: Major vault protein

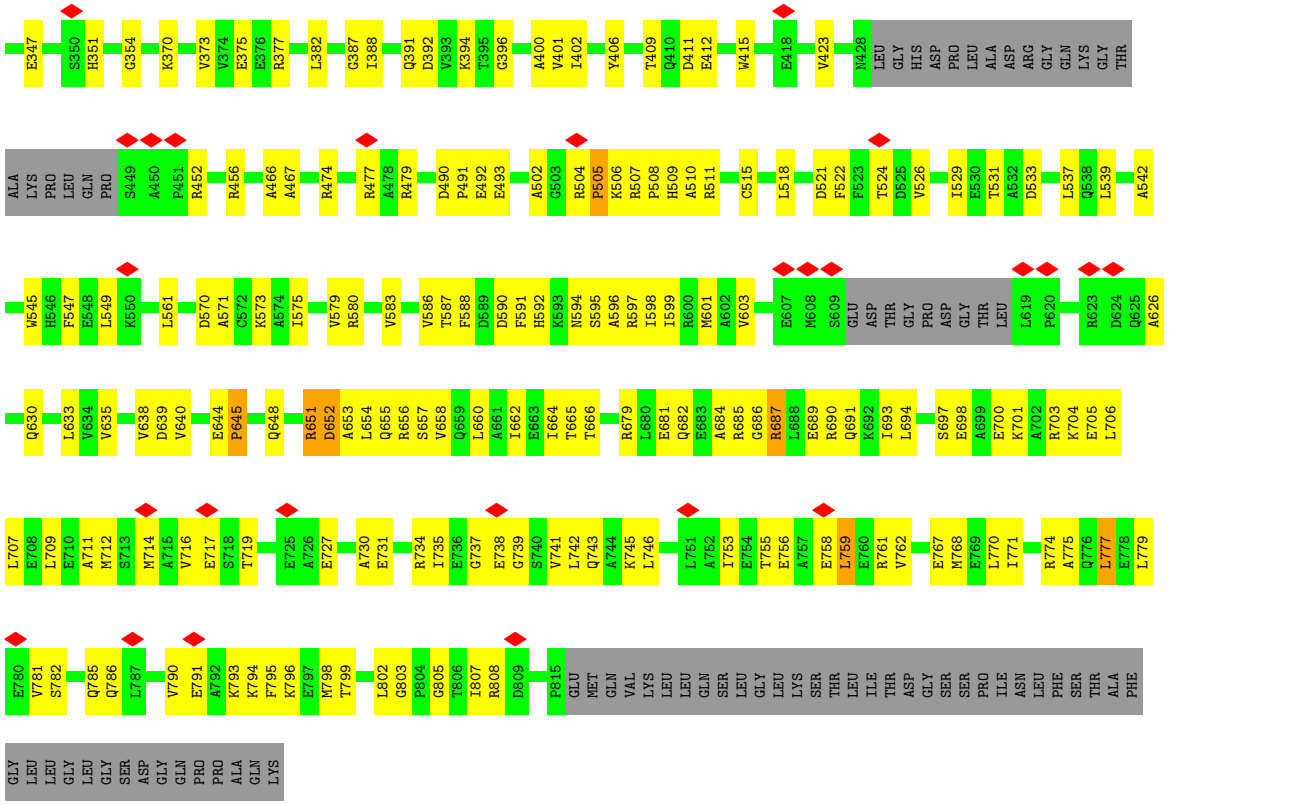
Chain UA:



• Molecule 1: Major vault protein

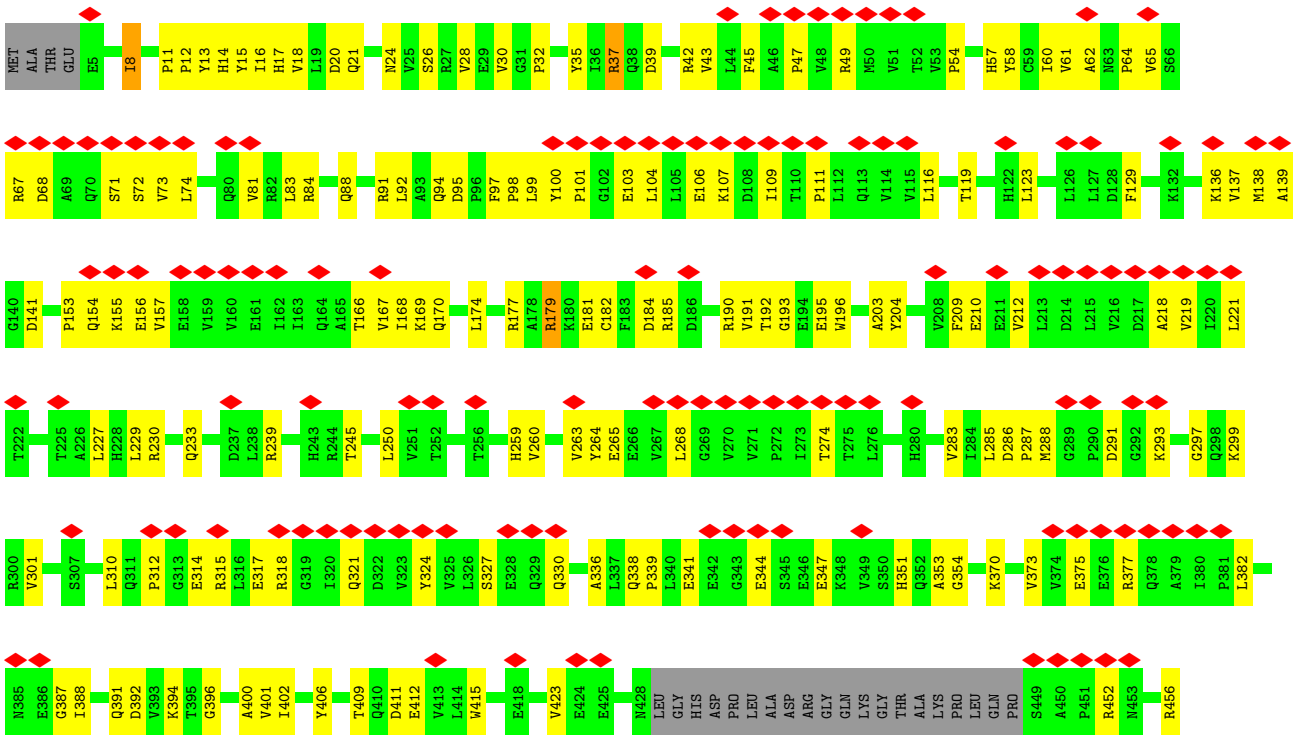
Chain VA:

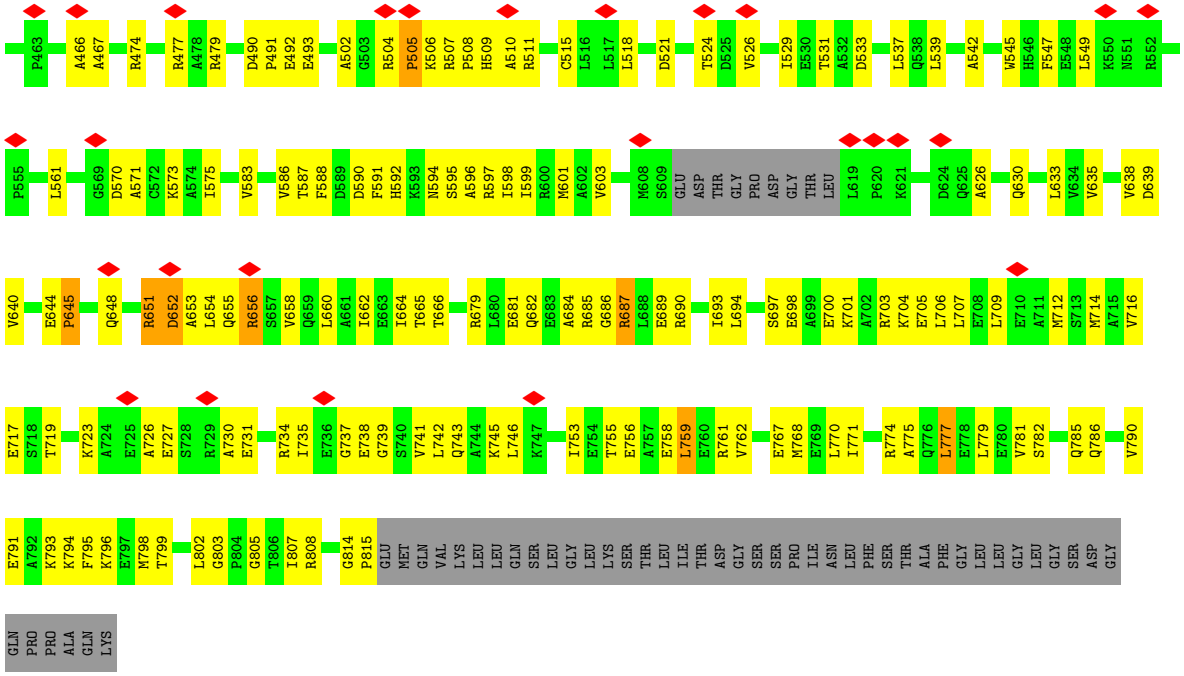




• Molecule 1: Major vault protein

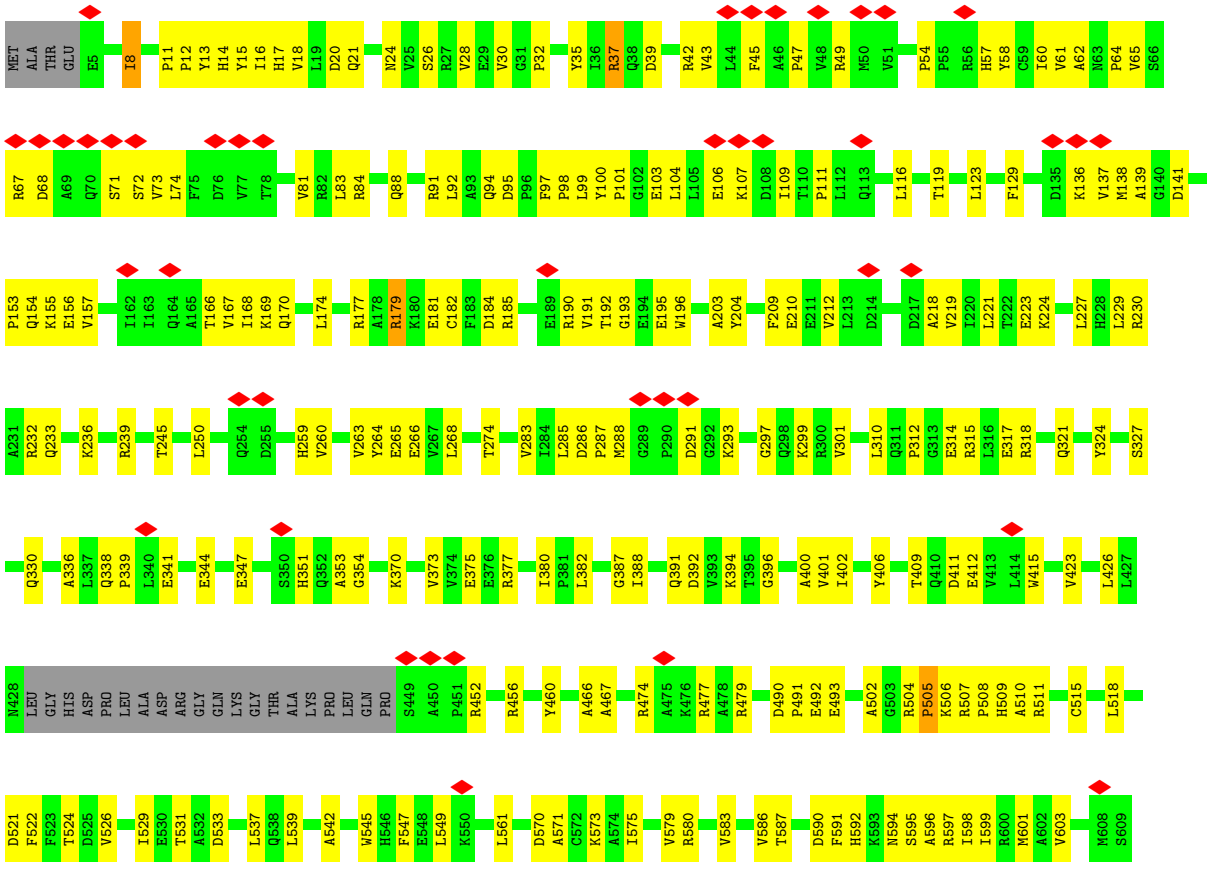
Chain WA:

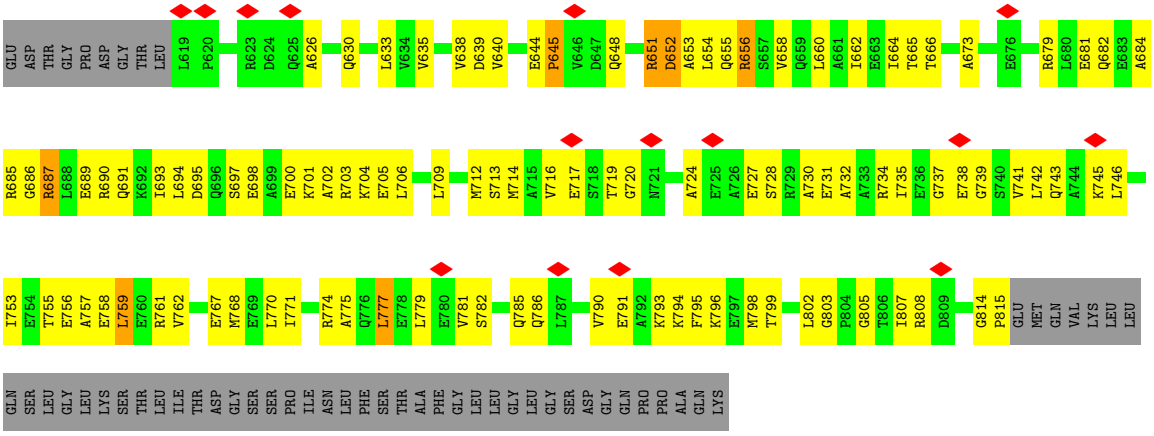




• Molecule 1: Major vault protein

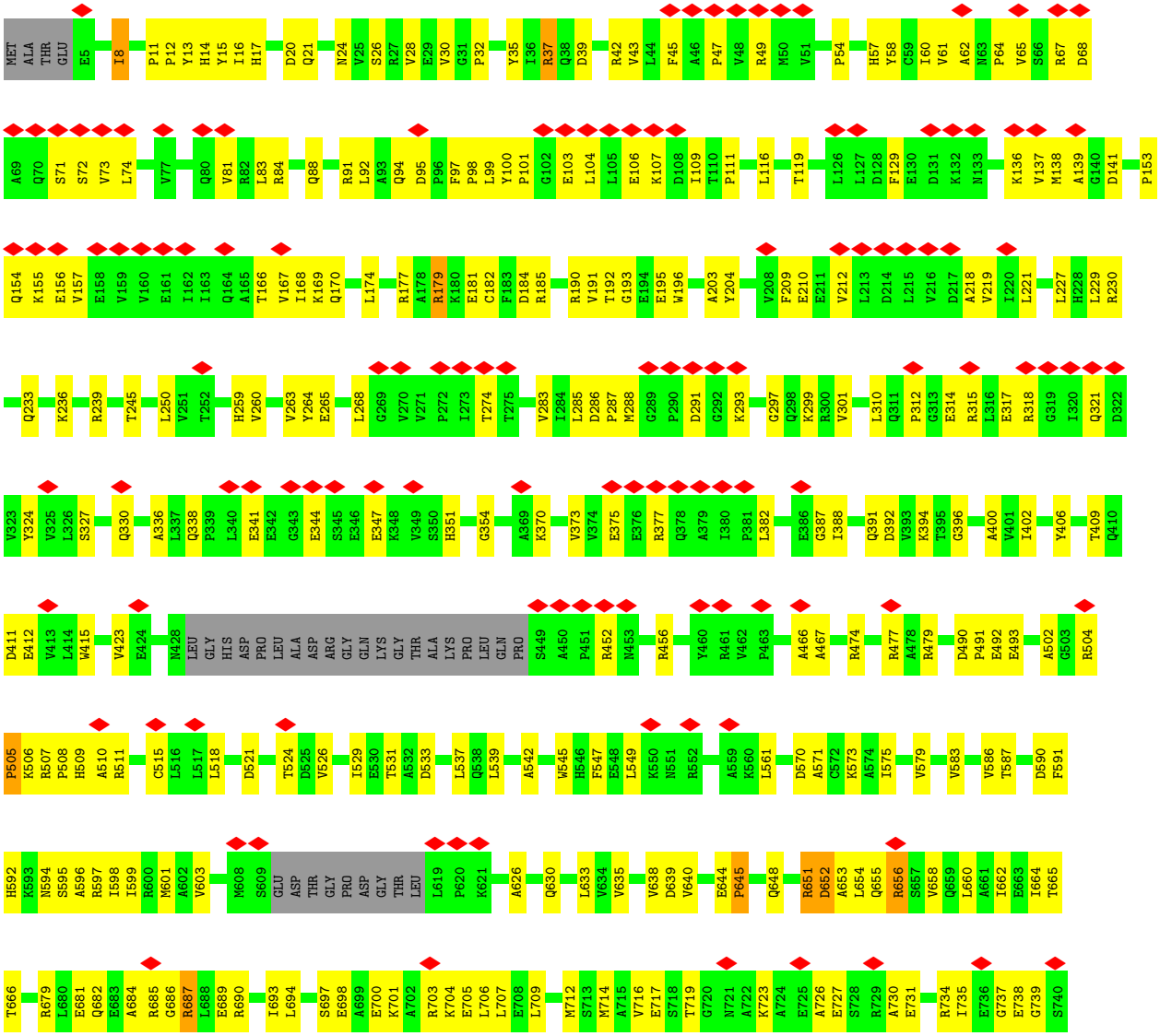
Chain XA:

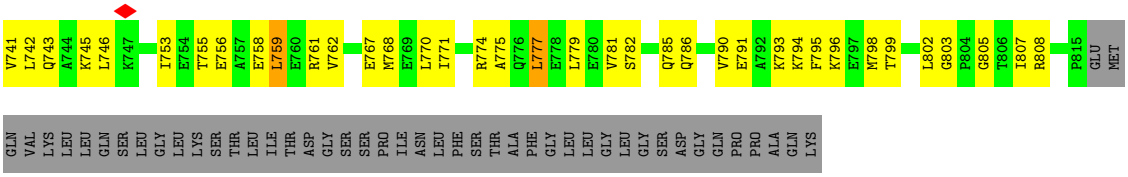




• Molecule 1: Major vault protein

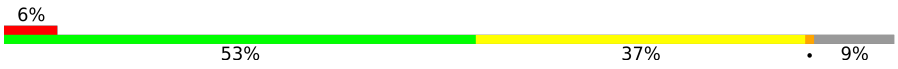
Chain YA:

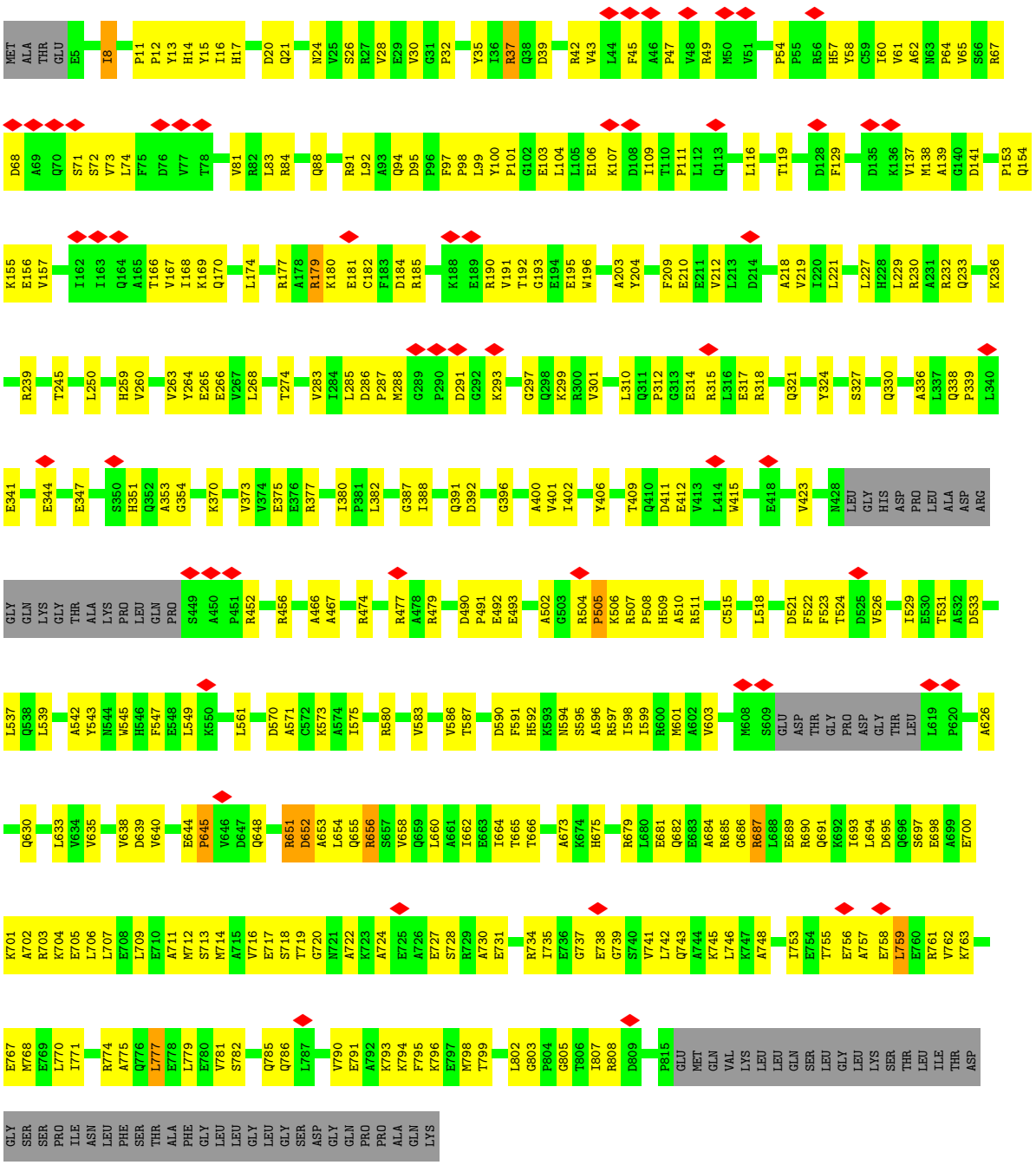




• Molecule 1: Major vault protein

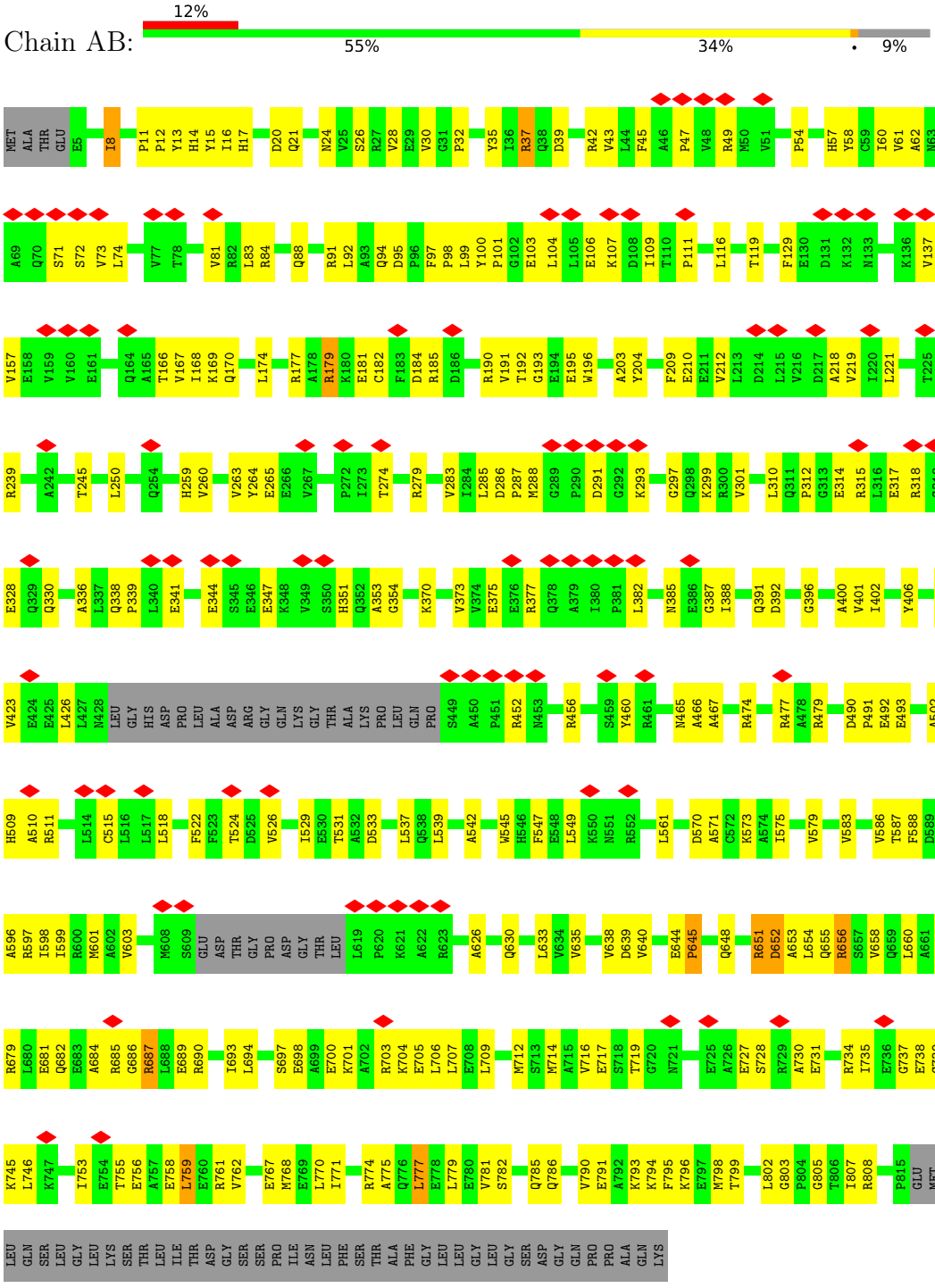
Chain ZA:





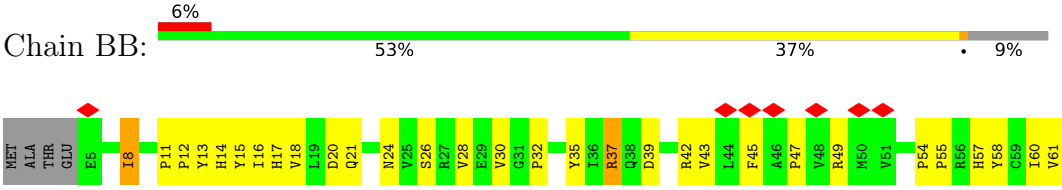
• Molecule 1: Major vault protein

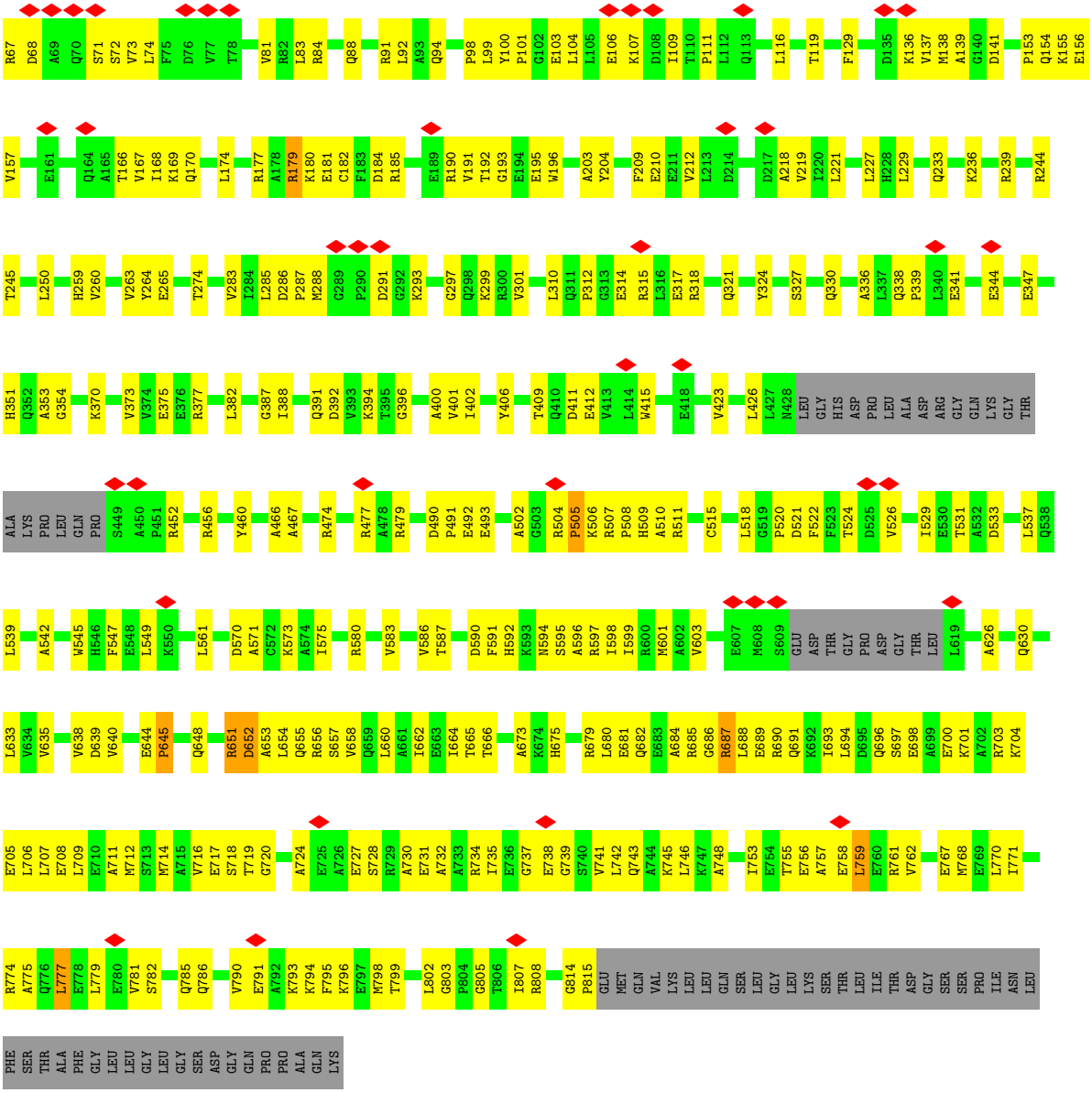
Chain AB:



• Molecule 1: Major vault protein

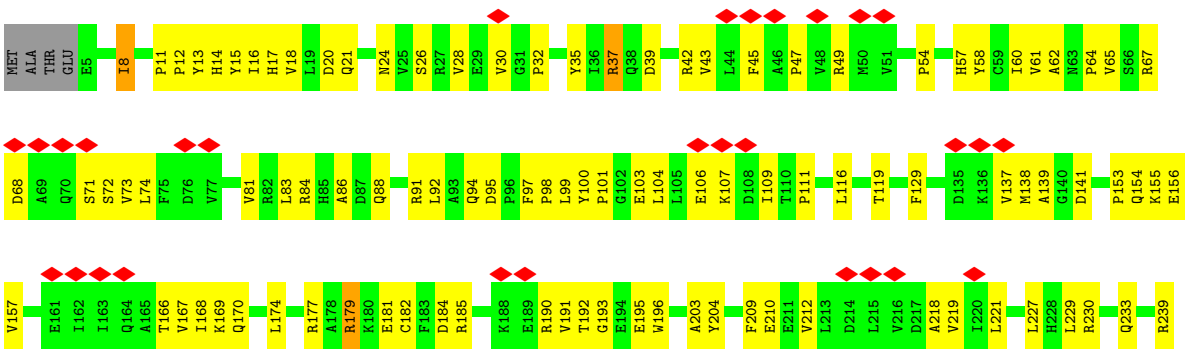
Chain BB:

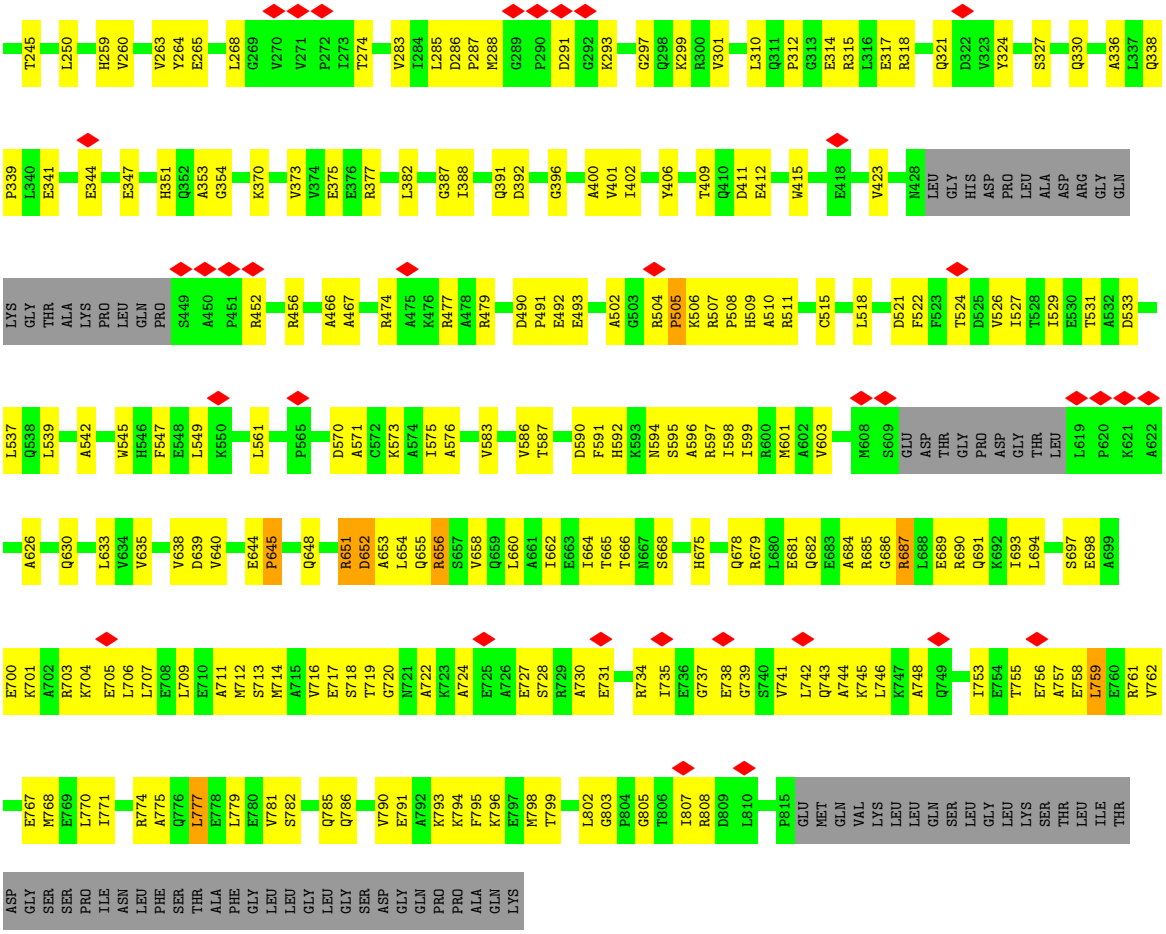




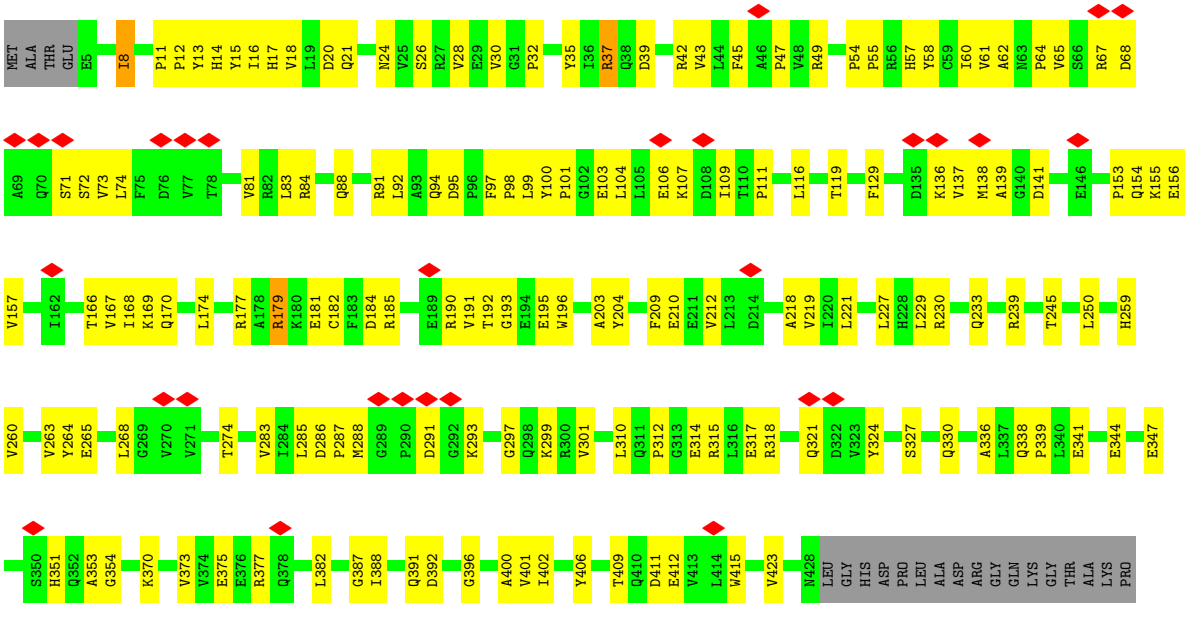
• Molecule 1: Major vault protein

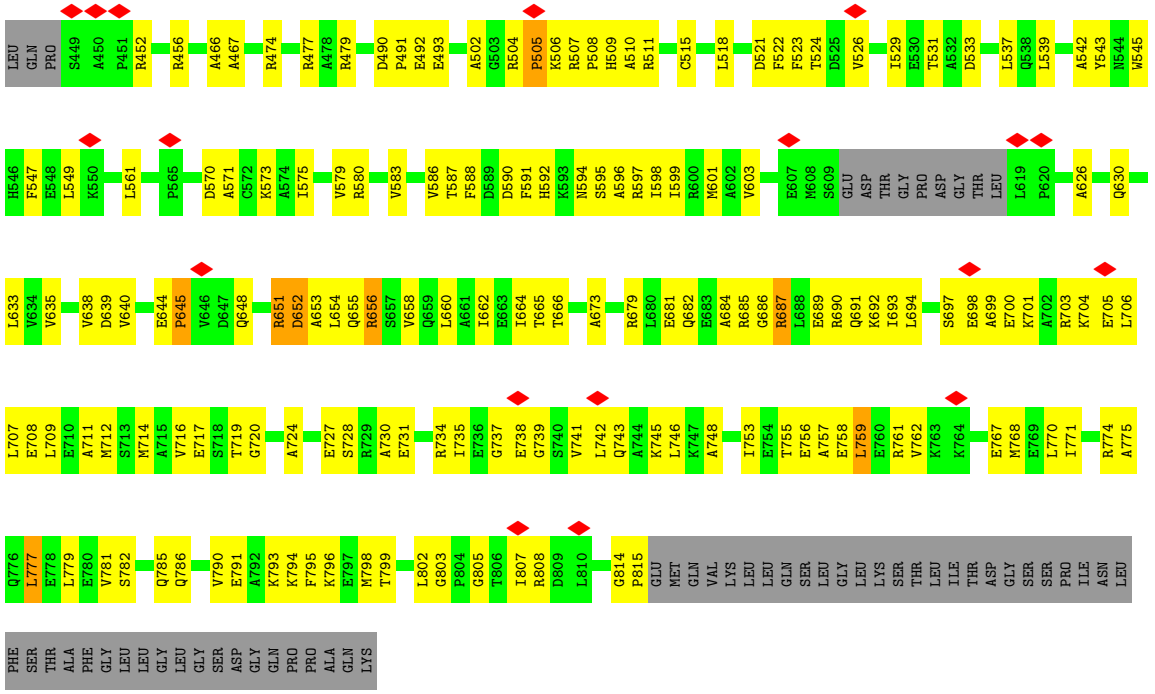
Chain CB:





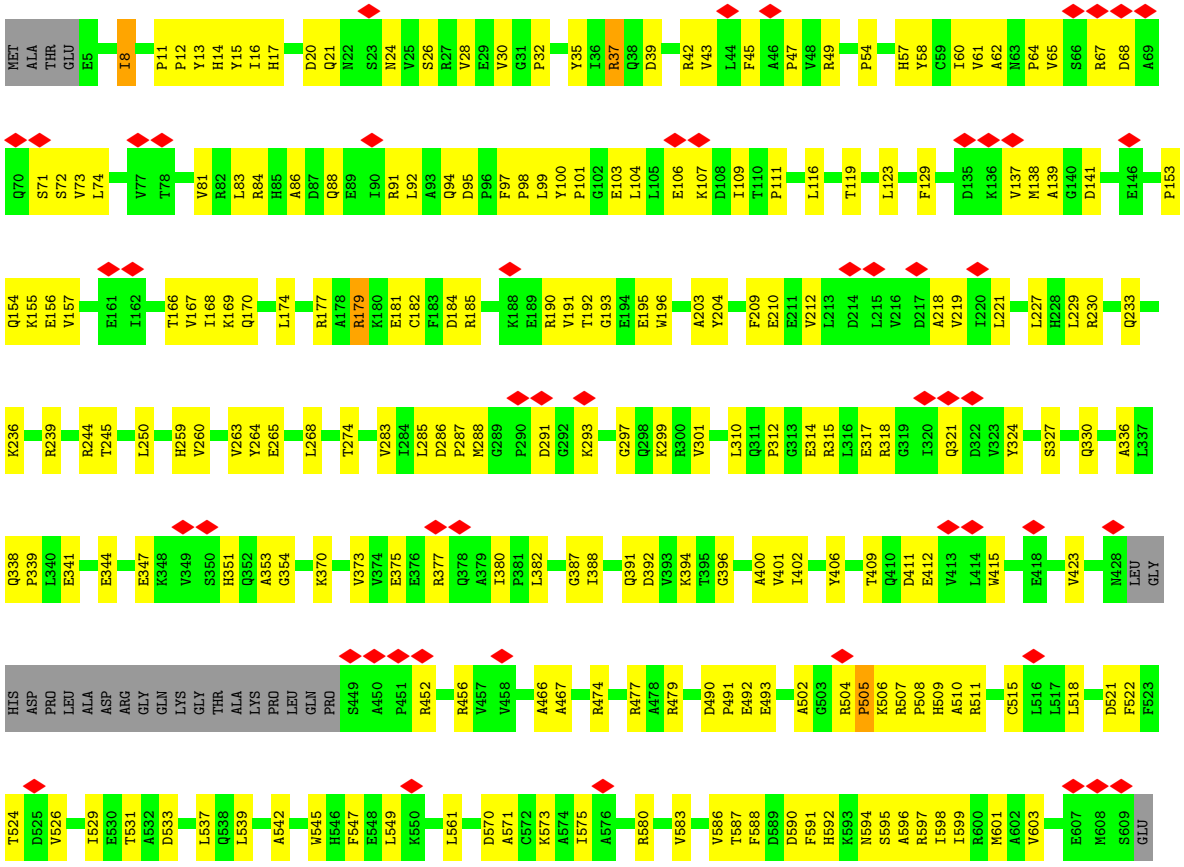
• Molecule 1: Major vault protein

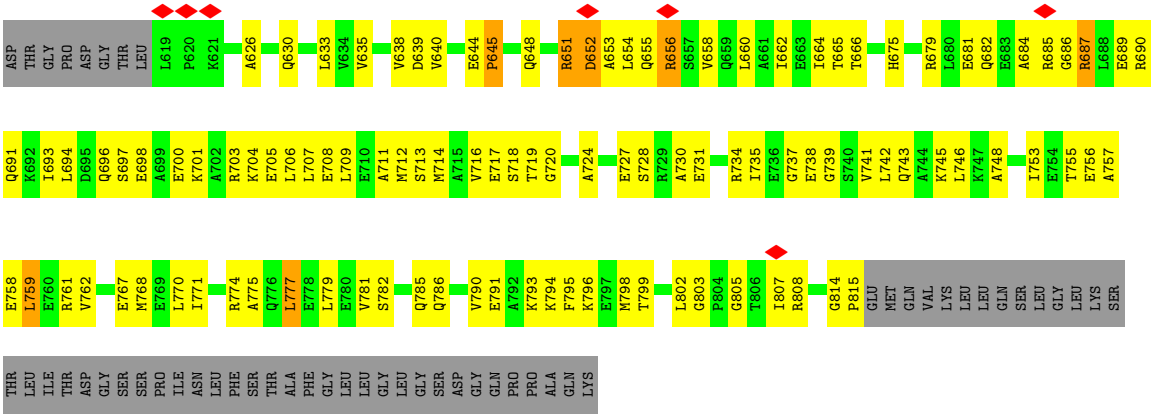




• Molecule 1: Major vault protein

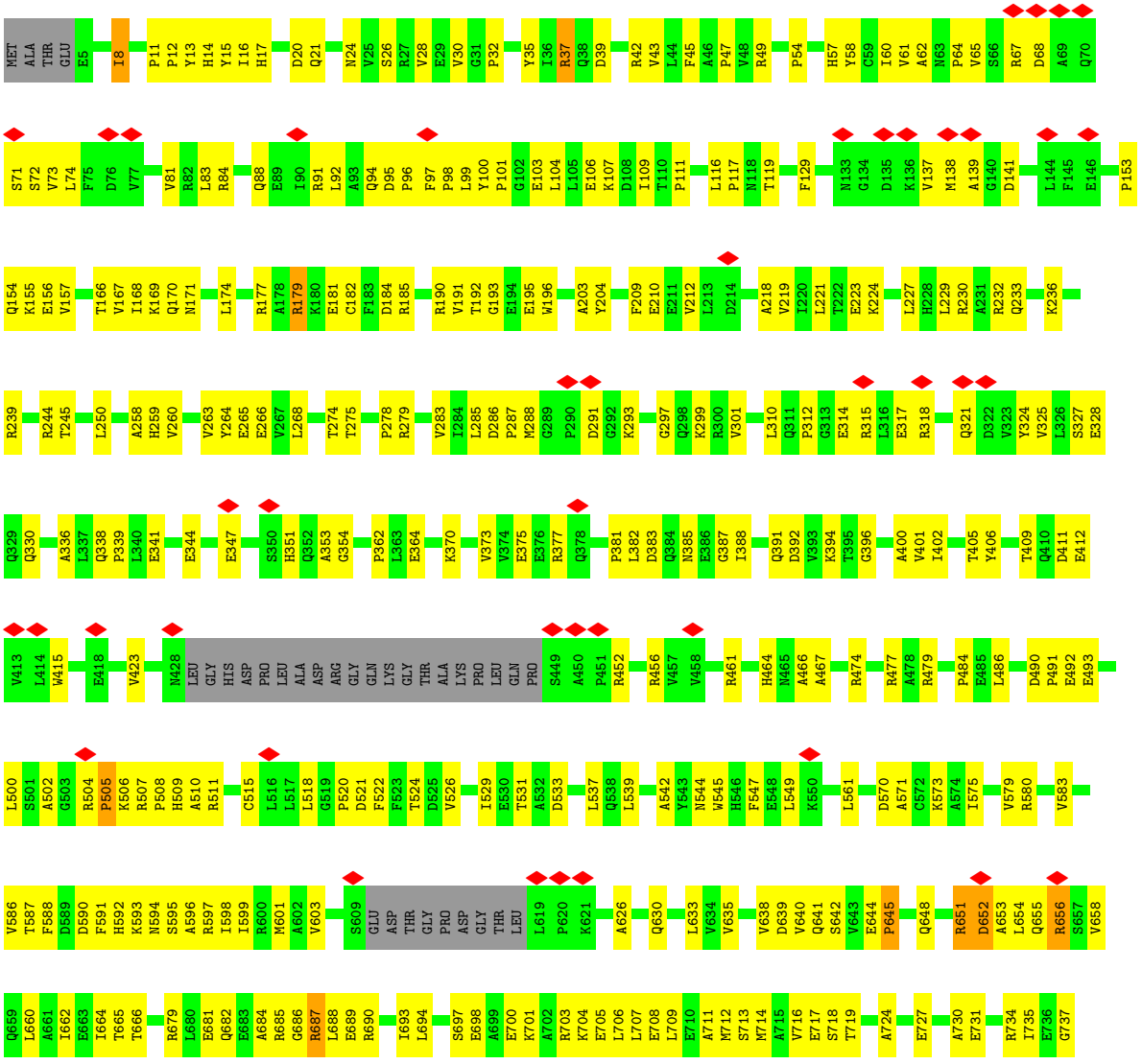
Chain EB:

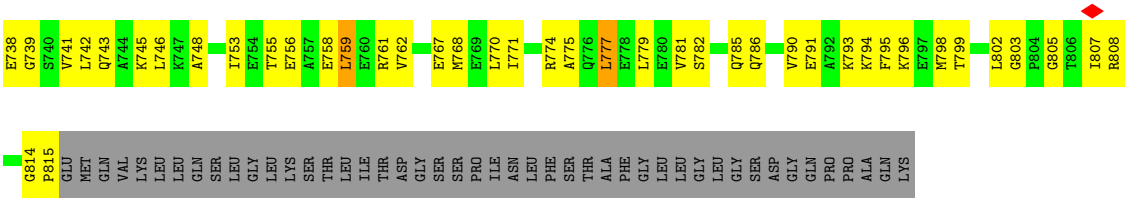




• Molecule 1: Major vault protein

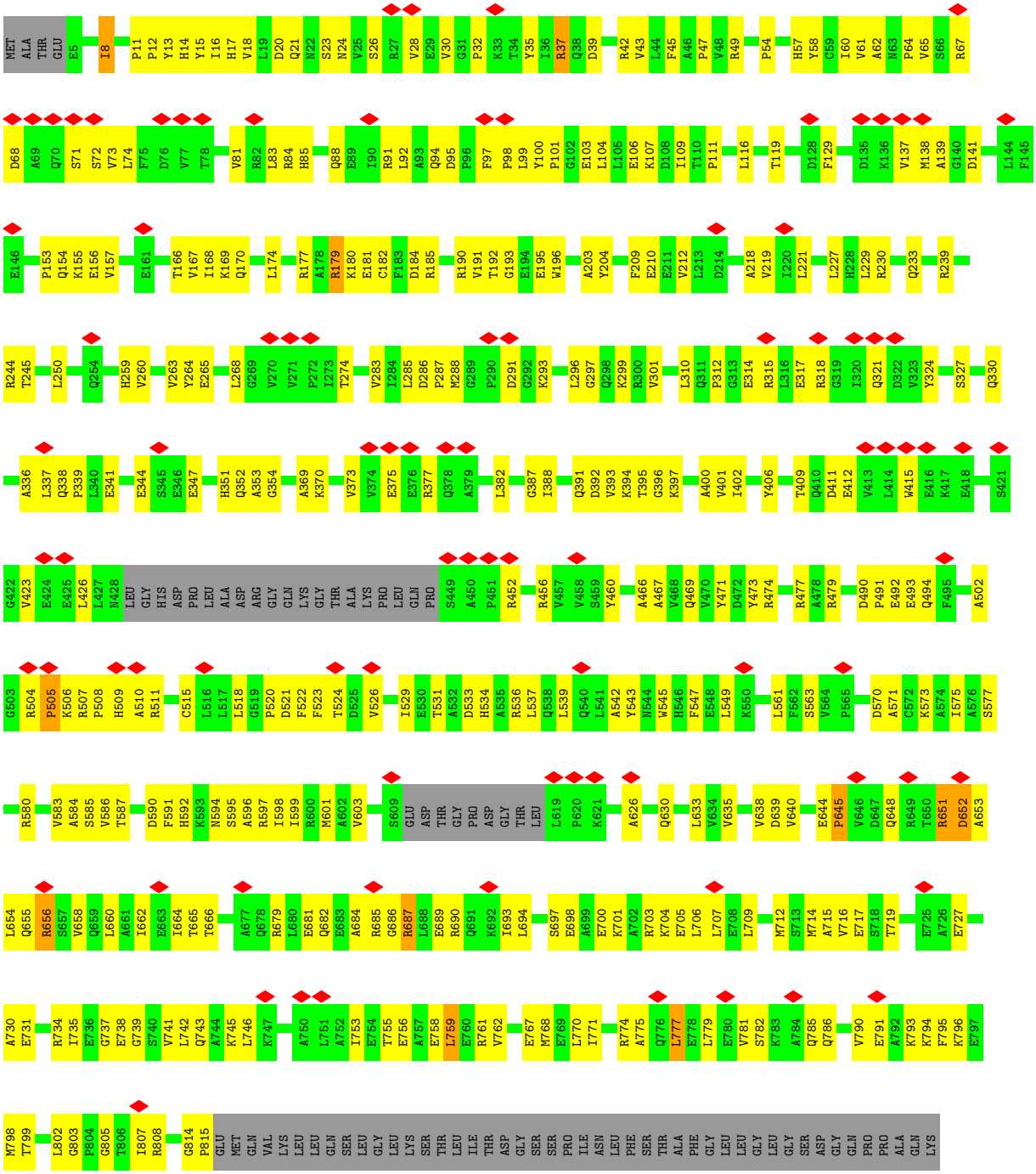
Chain FB:





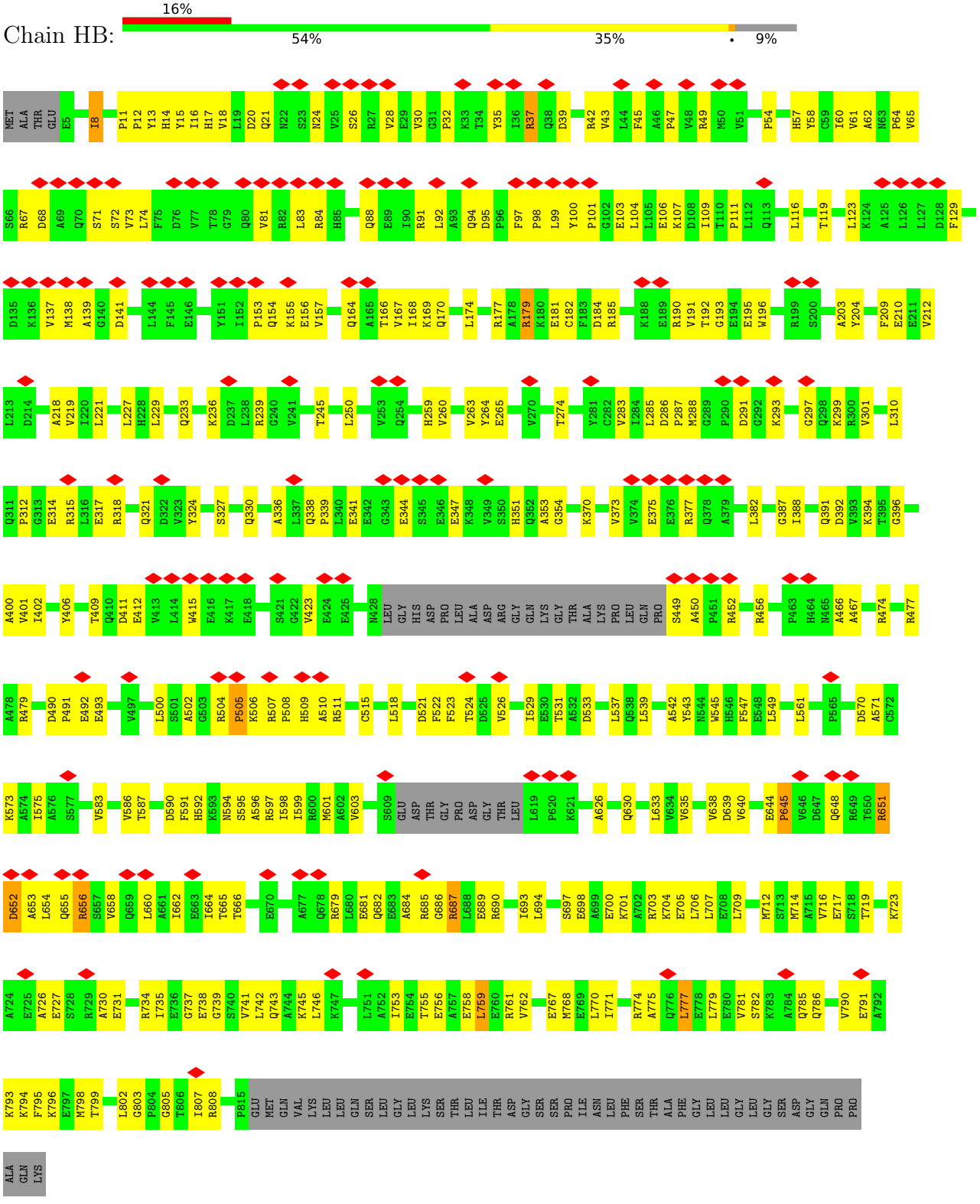
• Molecule 1: Major vault protein

Chain GB:



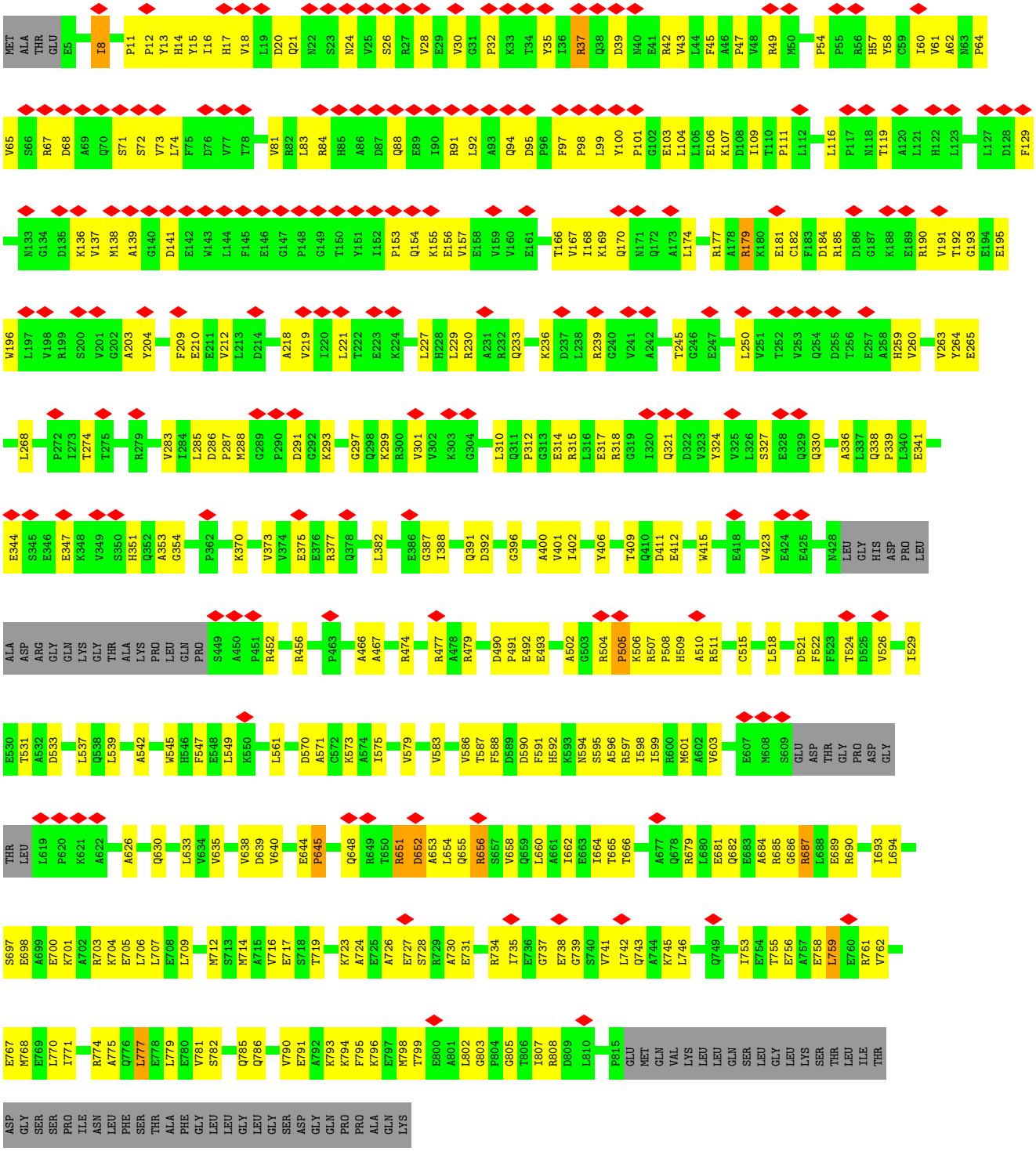
• Molecule 1: Major vault protein

Chain HB:



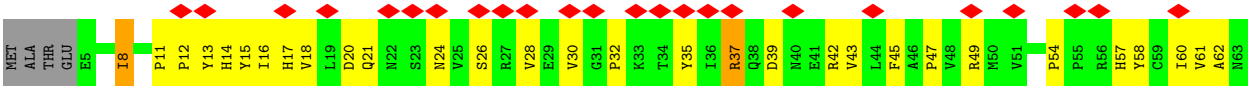
• Molecule 1: Major vault protein

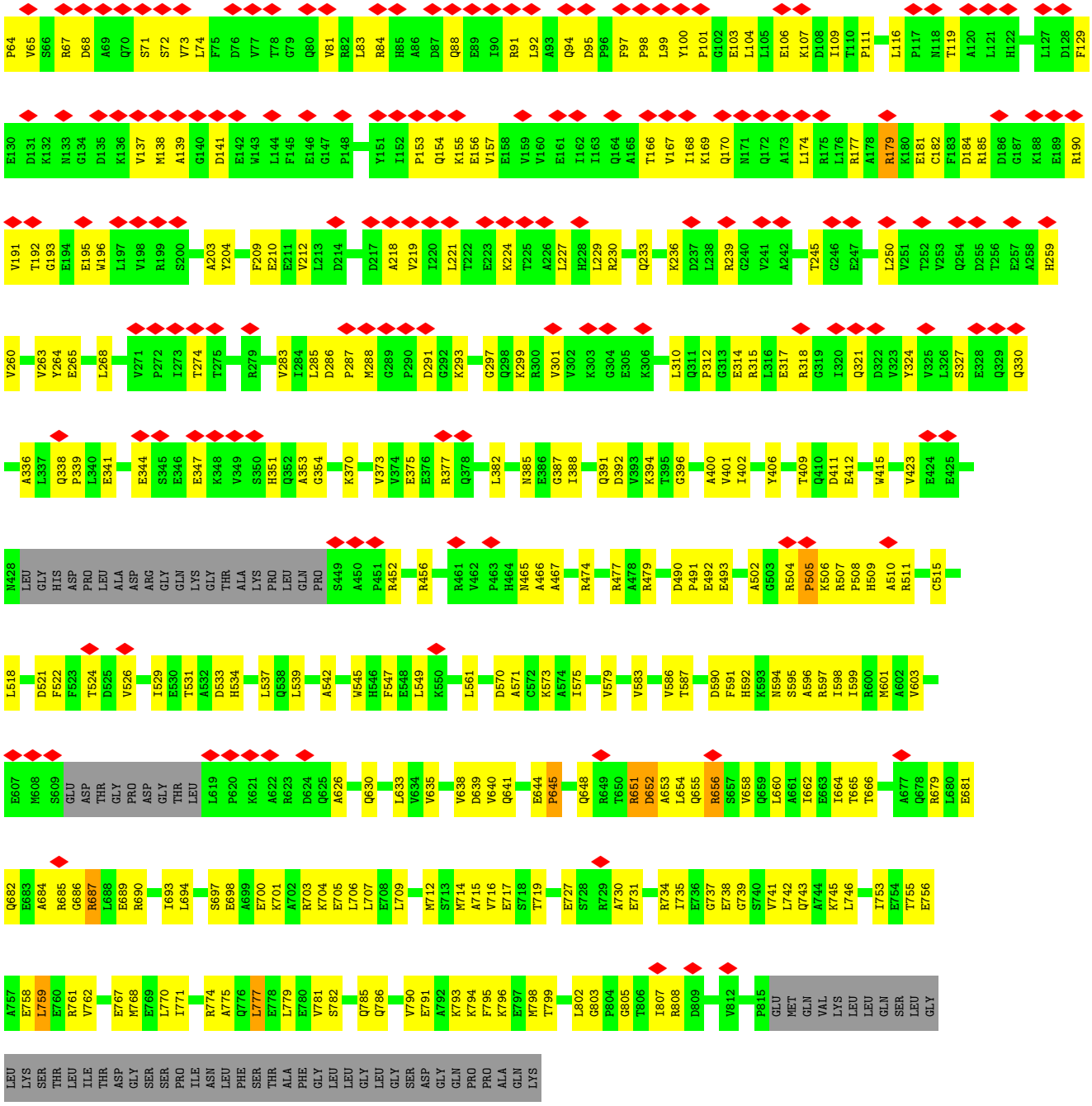
Chain IB:



• Molecule 1: Major vault protein

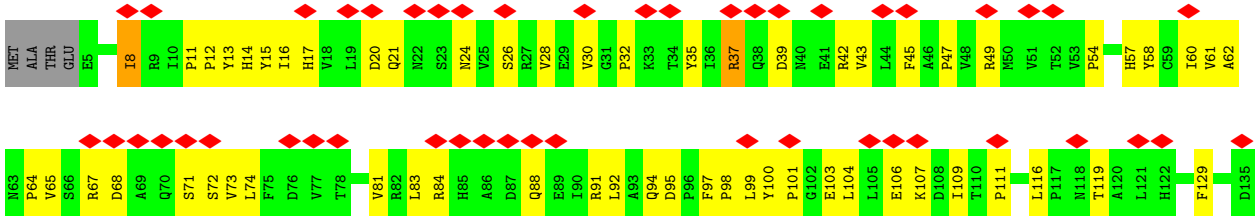
Chain JB:

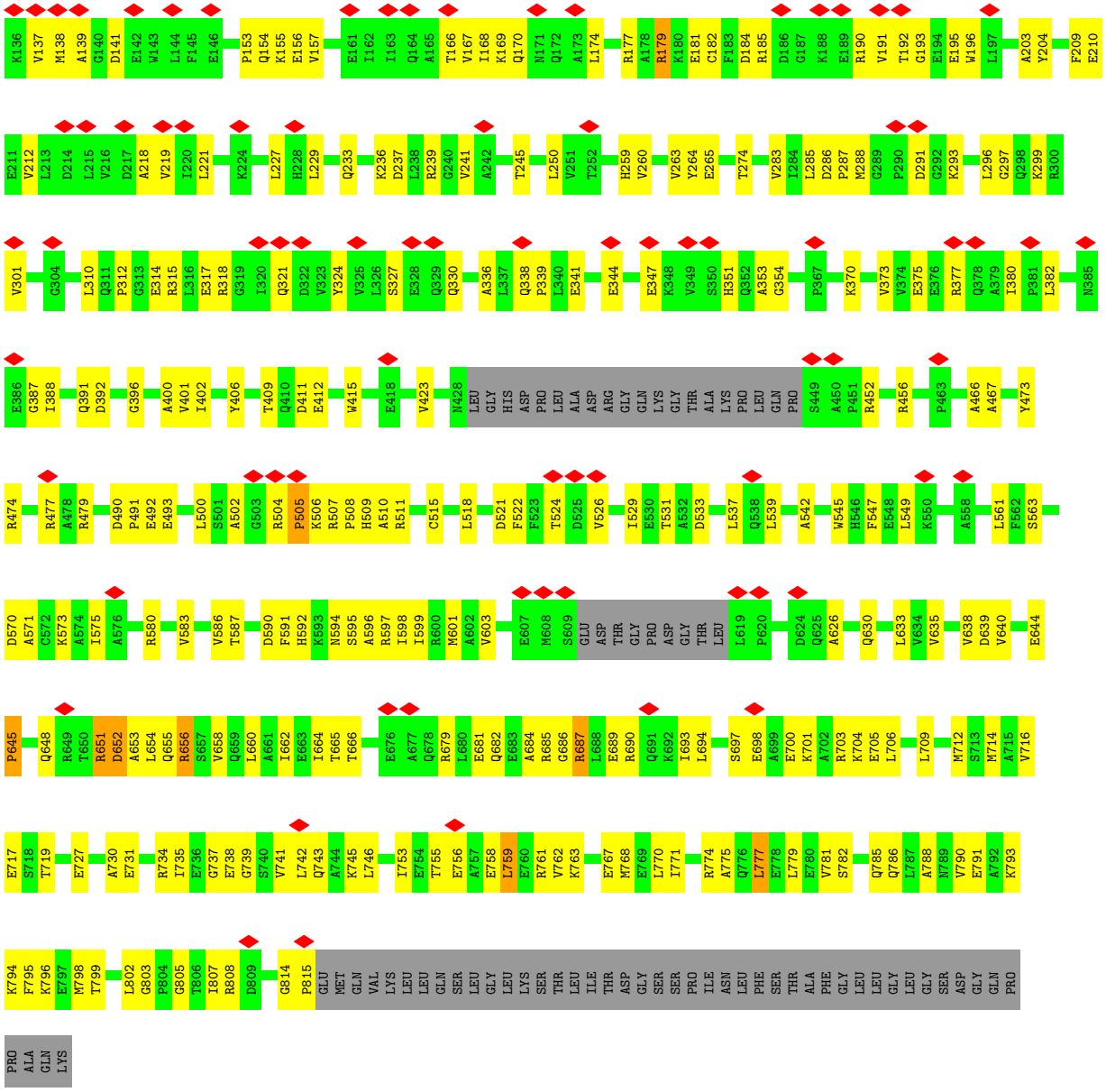




• Molecule 1: Major vault protein

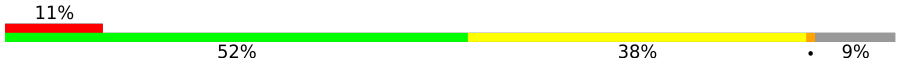
Chain KB:

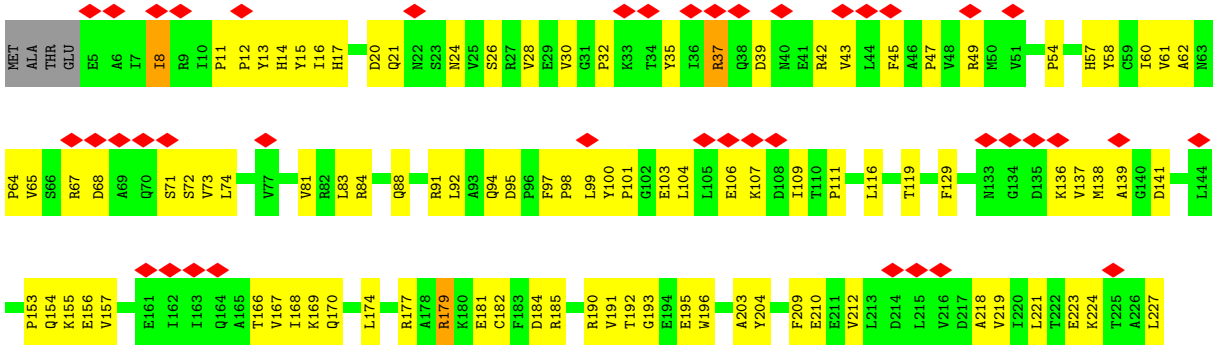


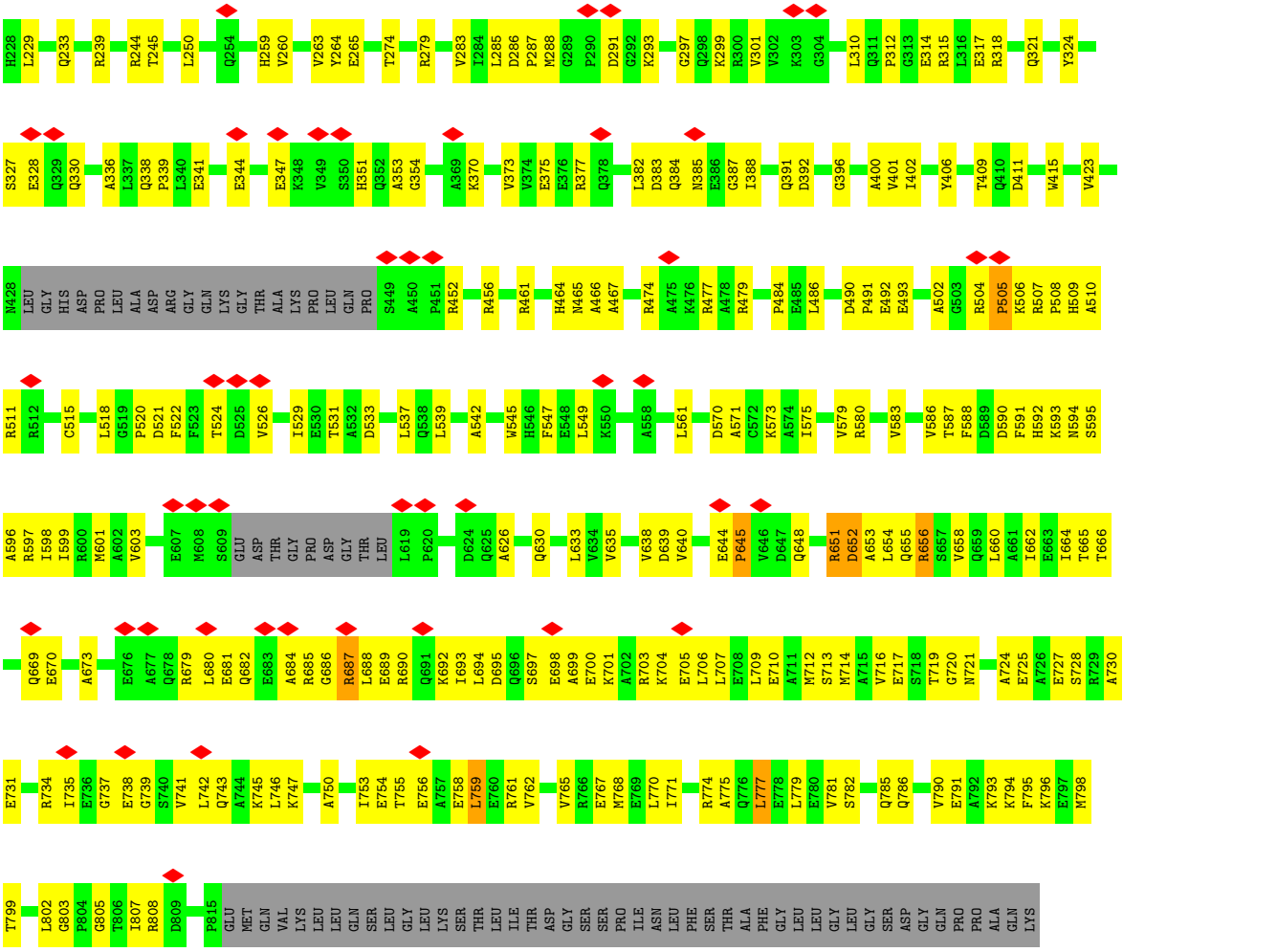


• Molecule 1: Major vault protein

Chain LB:

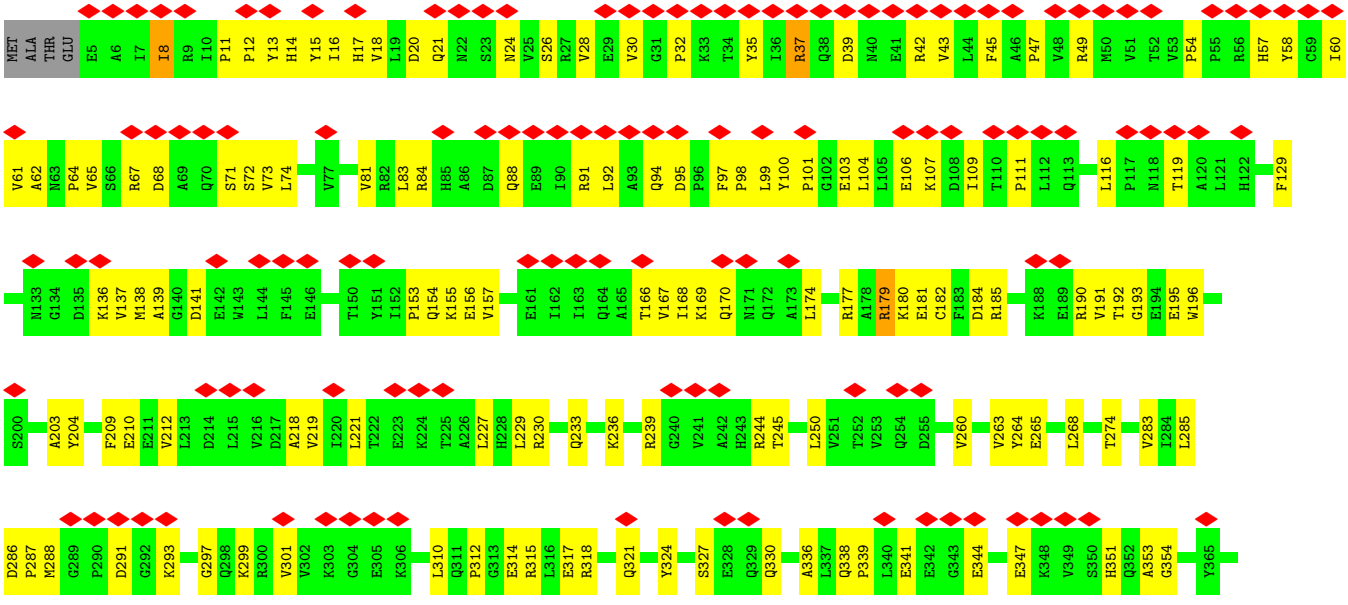


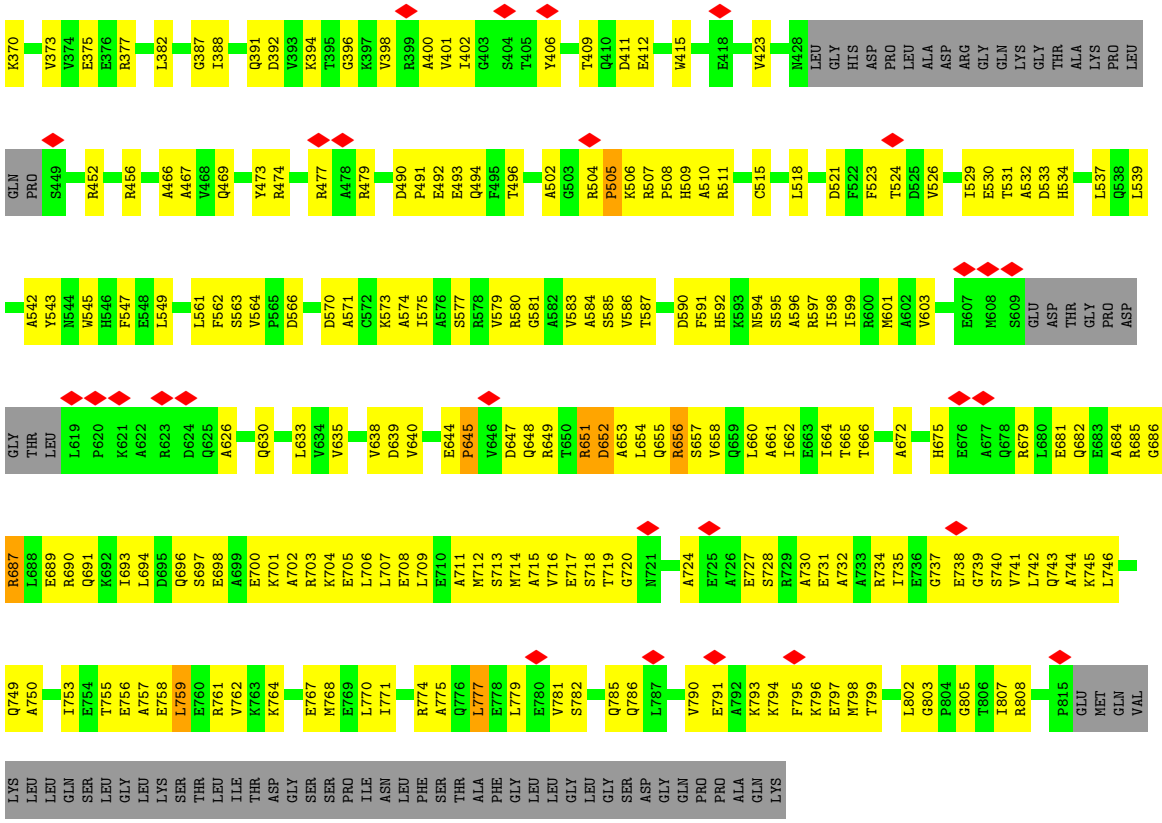




• Molecule 1: Major vault protein

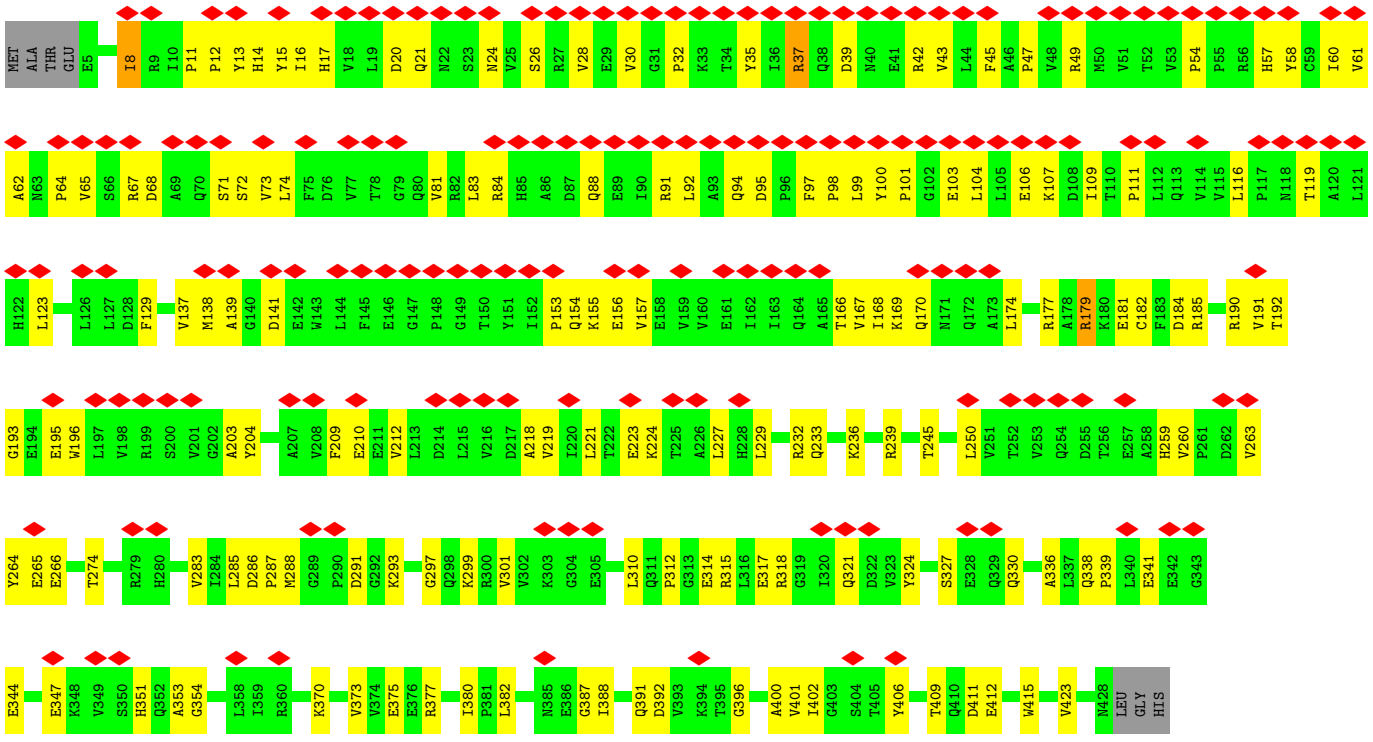
Chain MB:

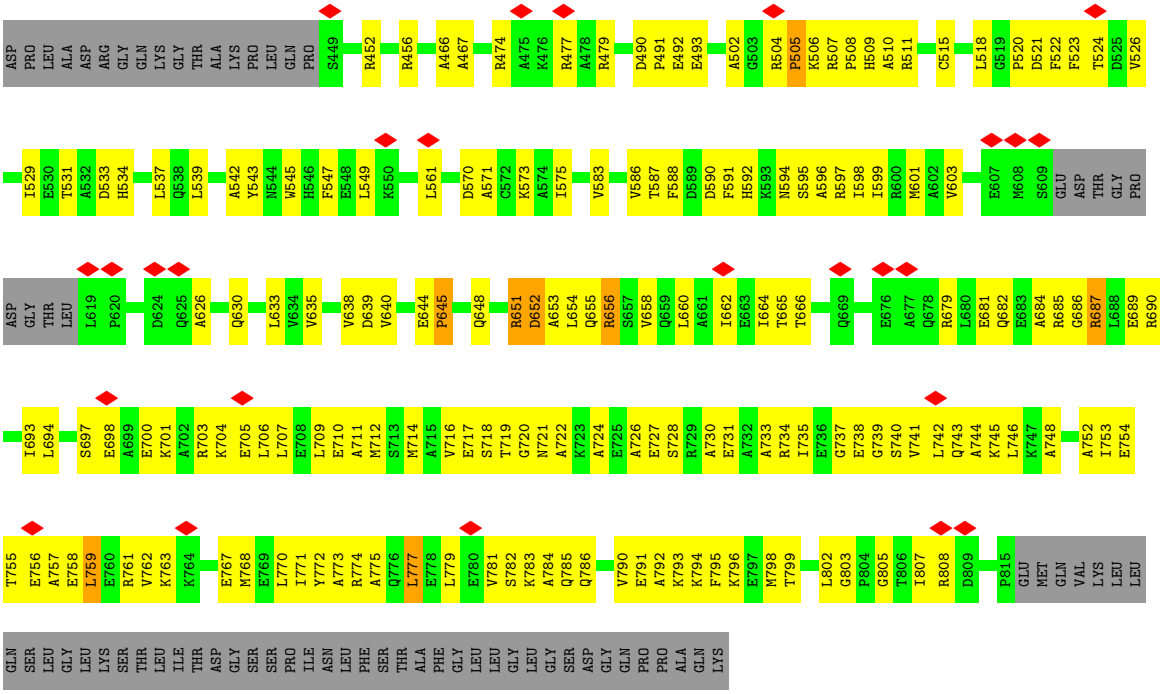




• Molecule 1: Major vault protein

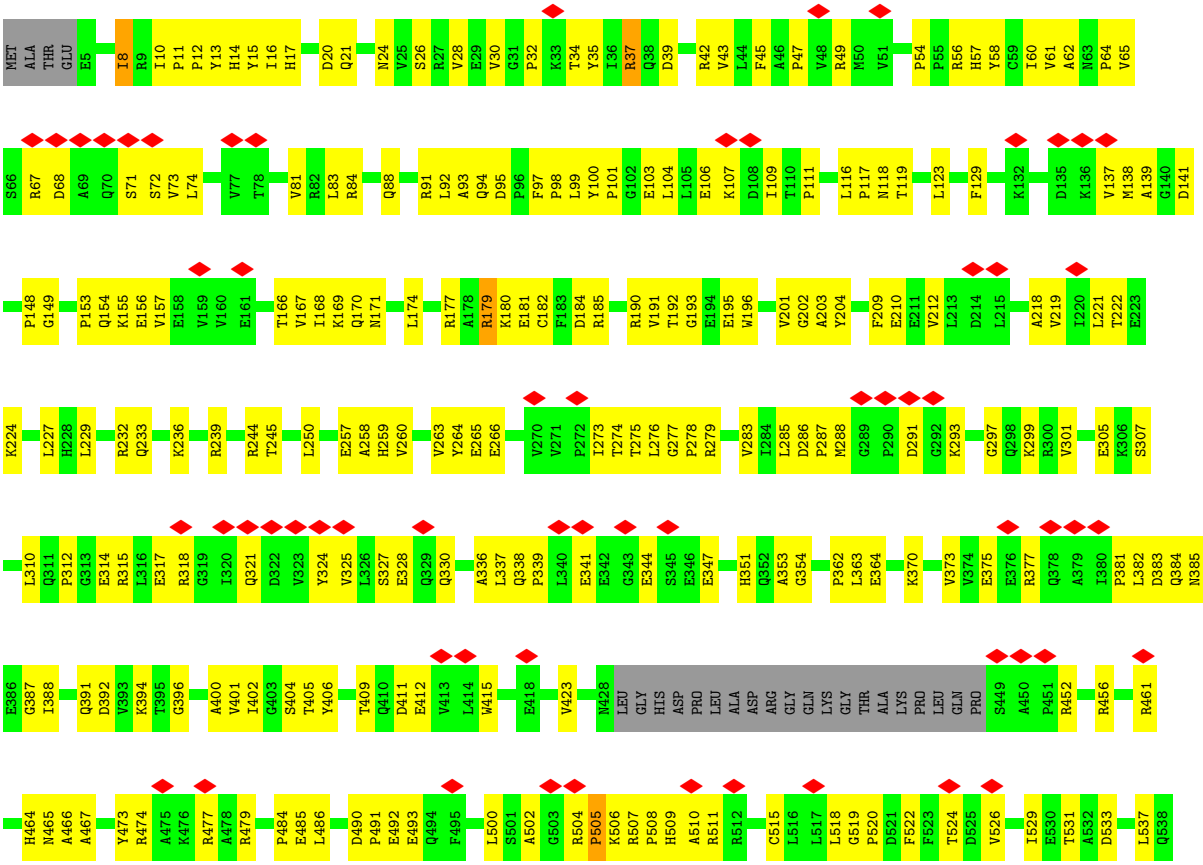
Chain NB:

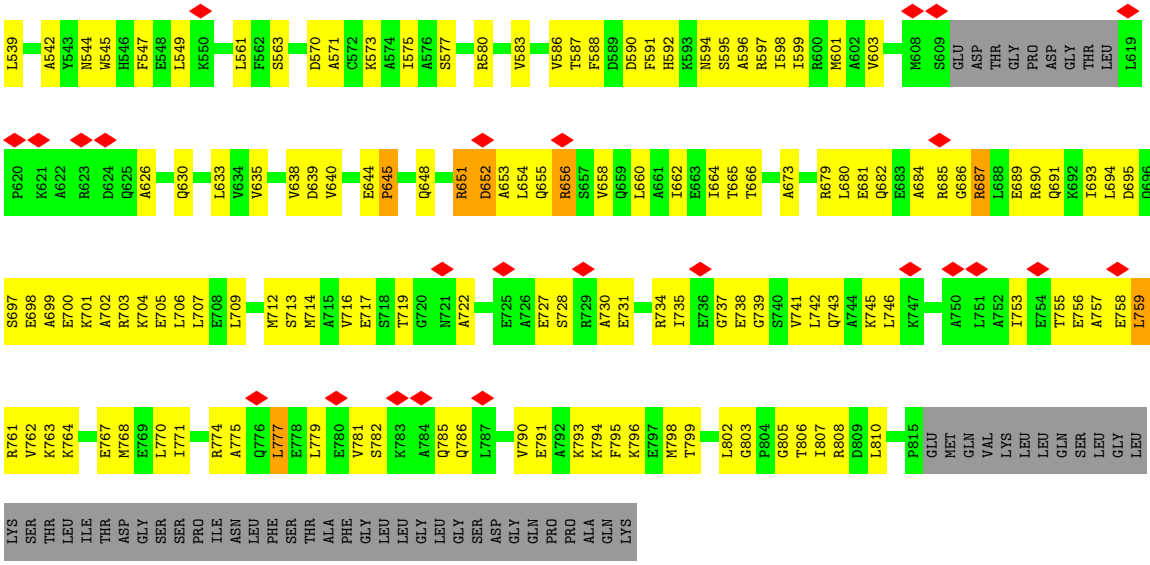




• Molecule 1: Major vault protein

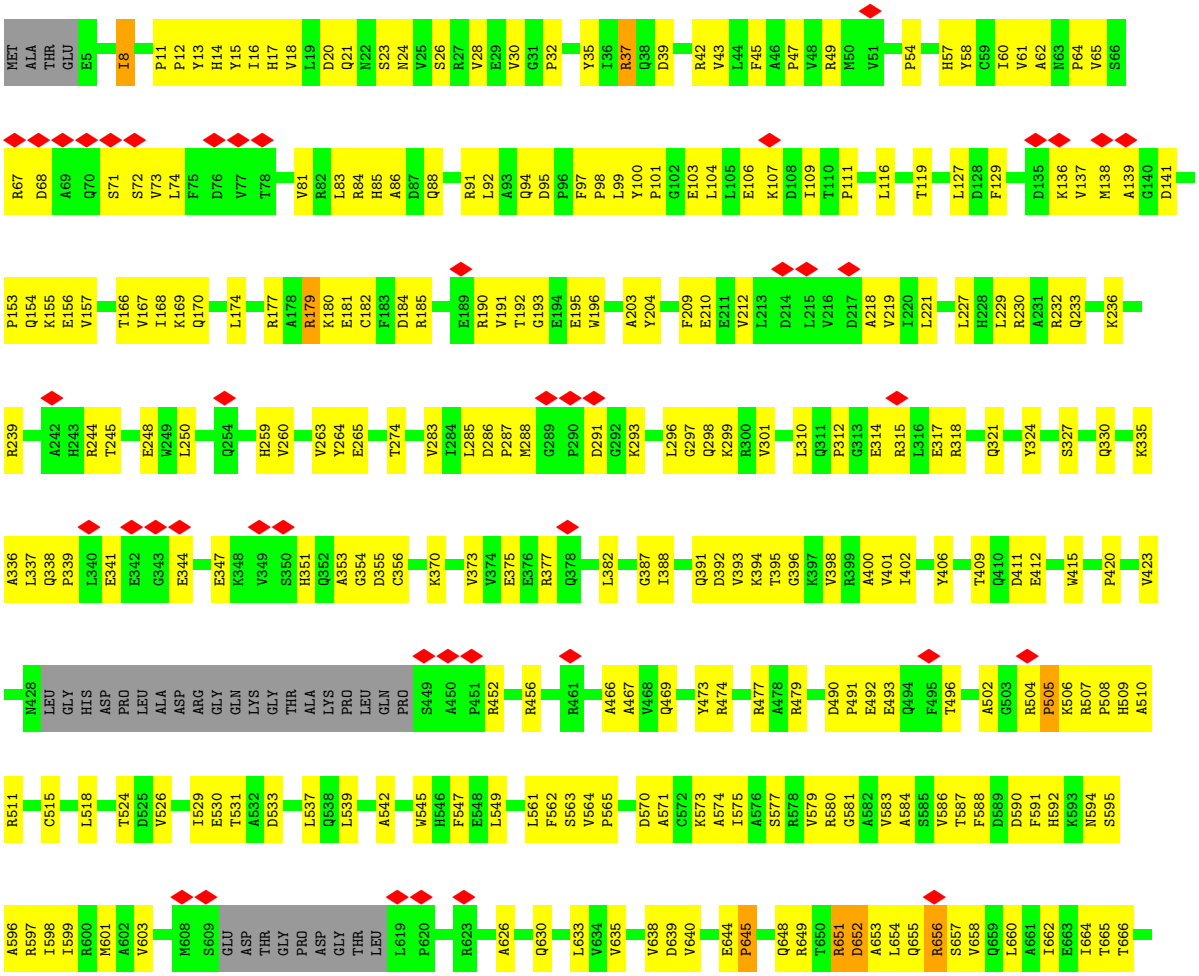
Chain OB:

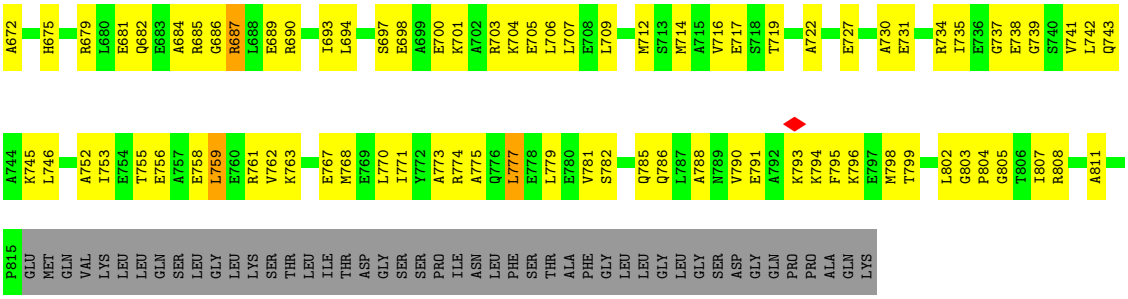




• Molecule 1: Major vault protein

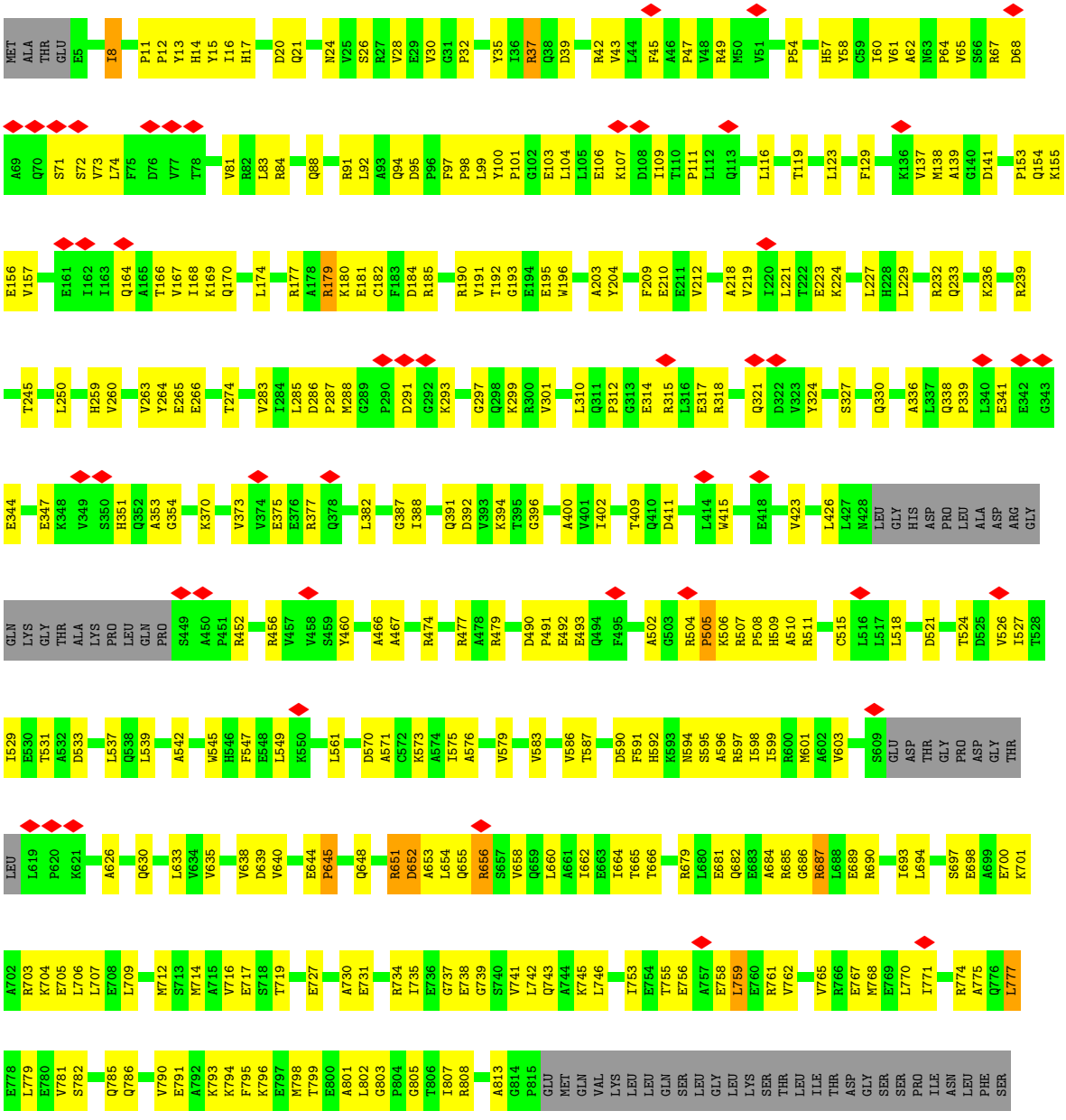
Chain PB:

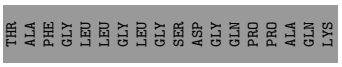




• Molecule 1: Major vault protein

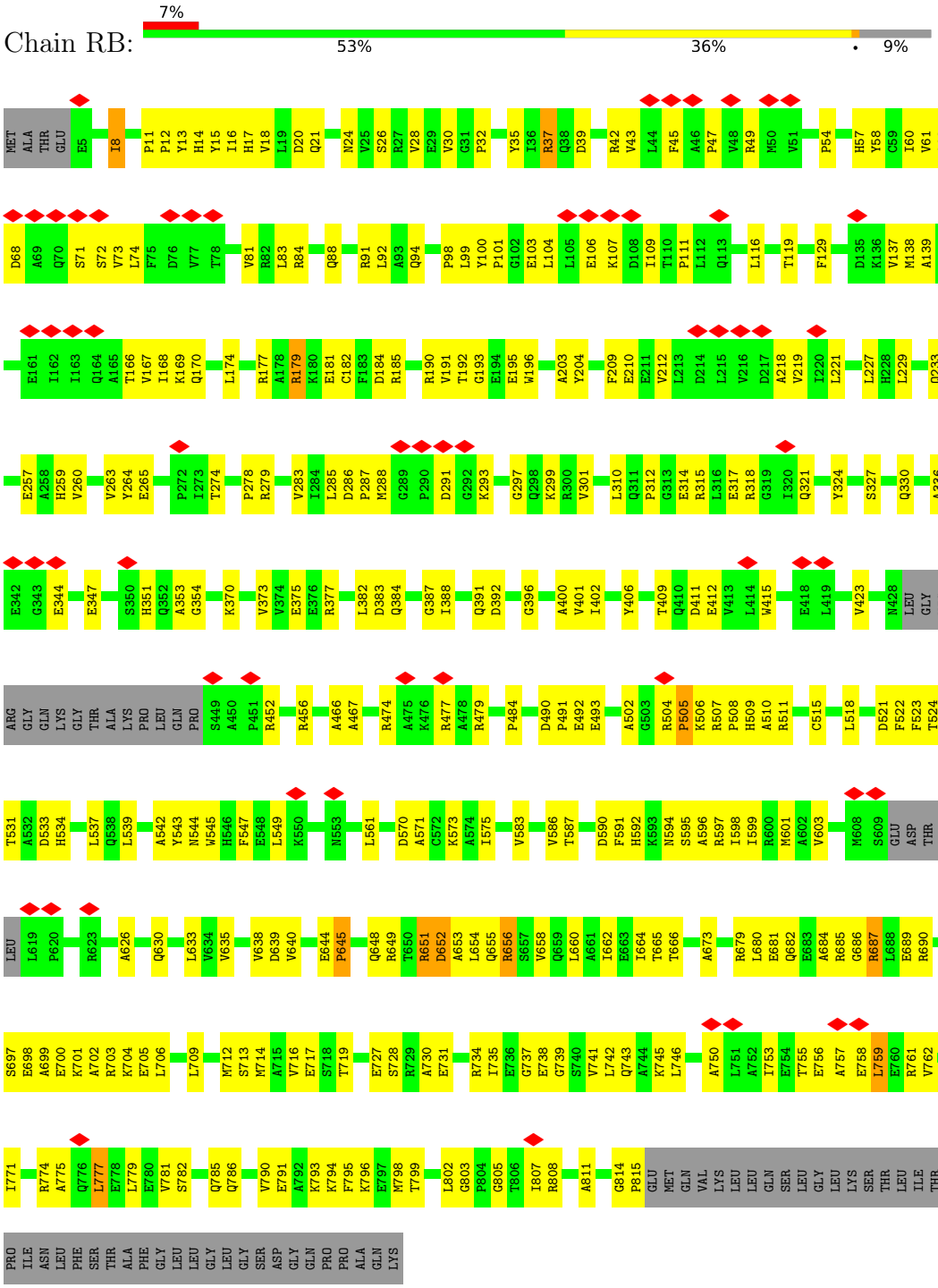
Chain QB:





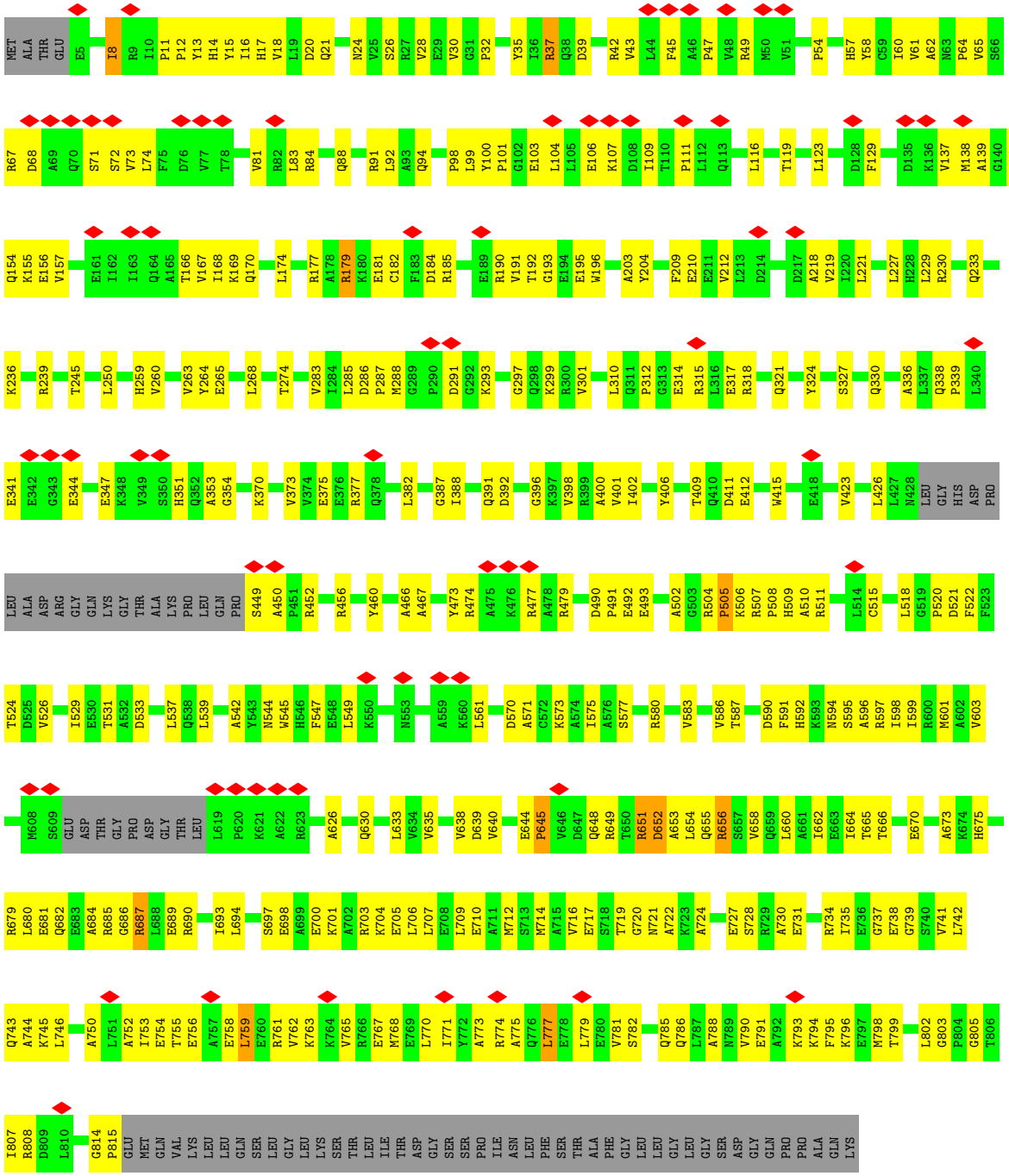
• Molecule 1: Major vault protein

Chain RB:

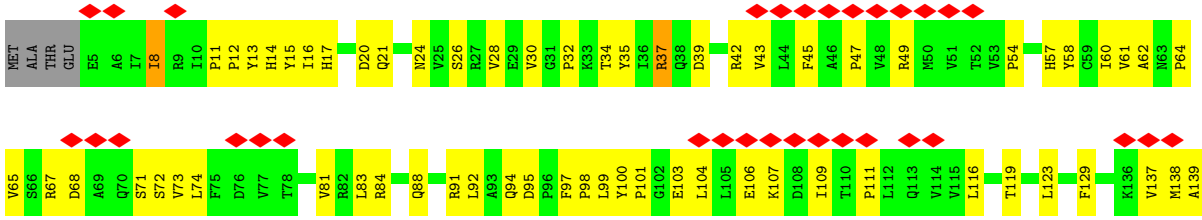


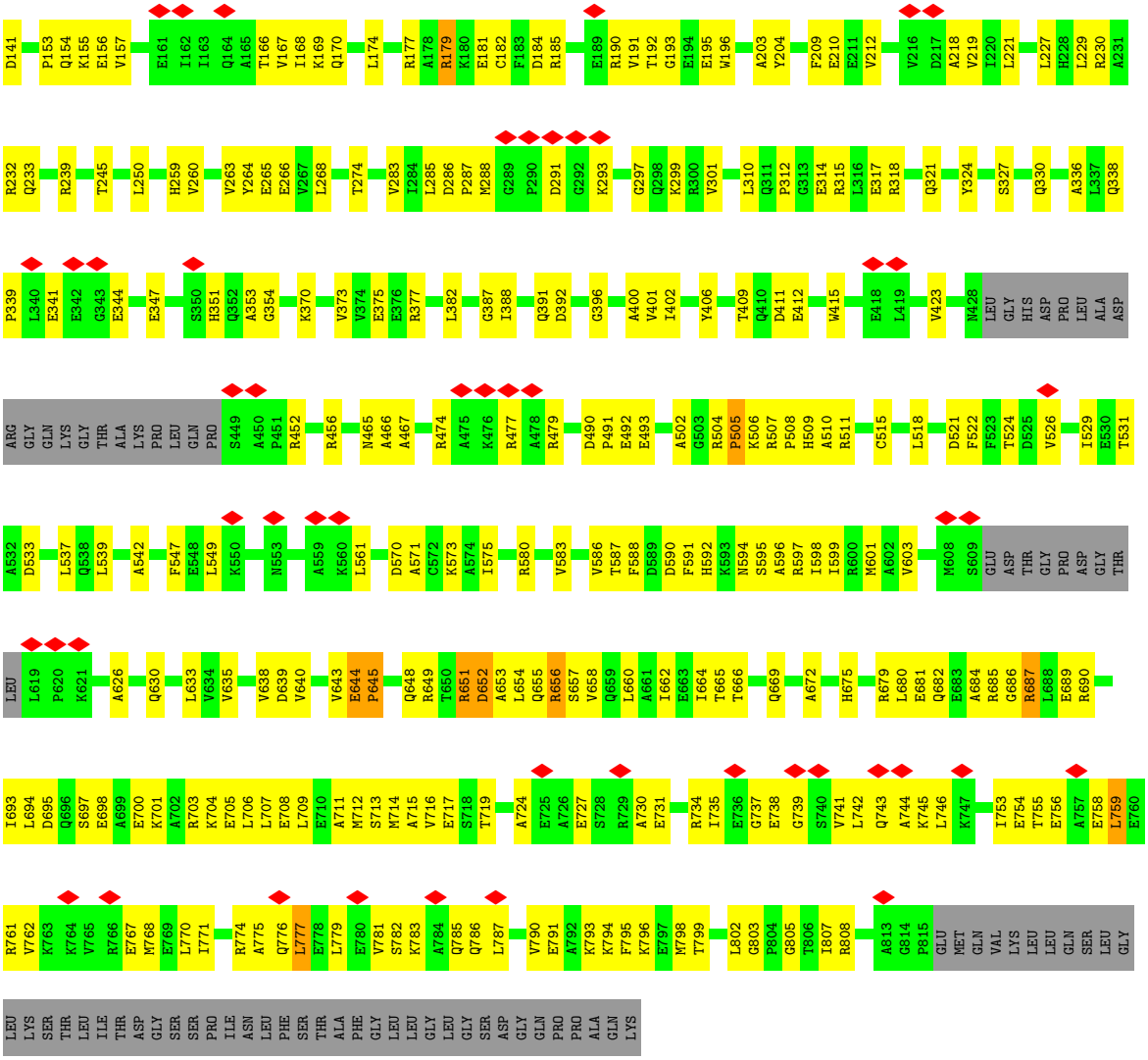
• Molecule 1: Major vault protein

Chain SB:



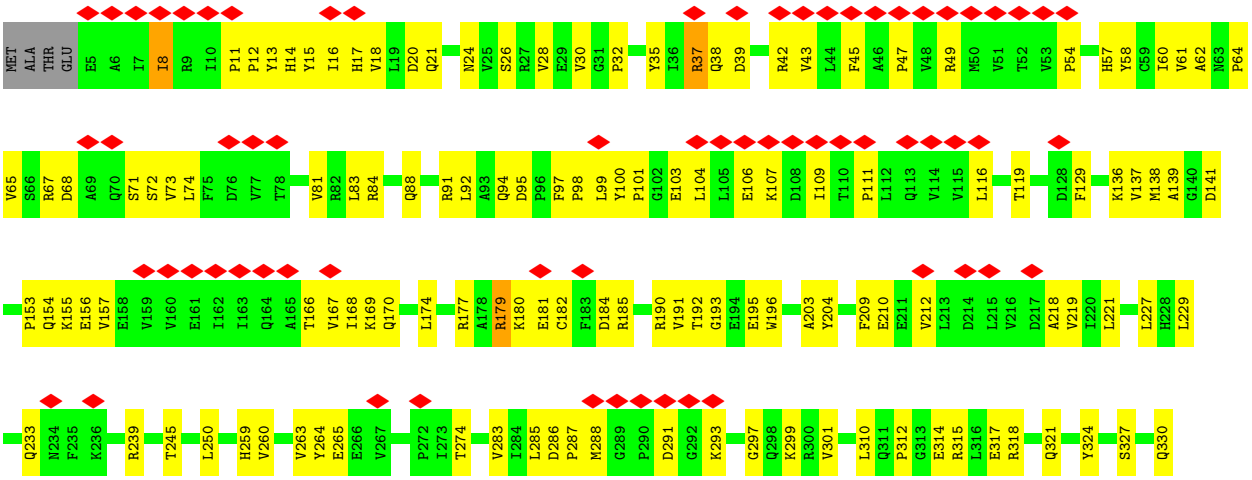
• Molecule 1: Major vault protein

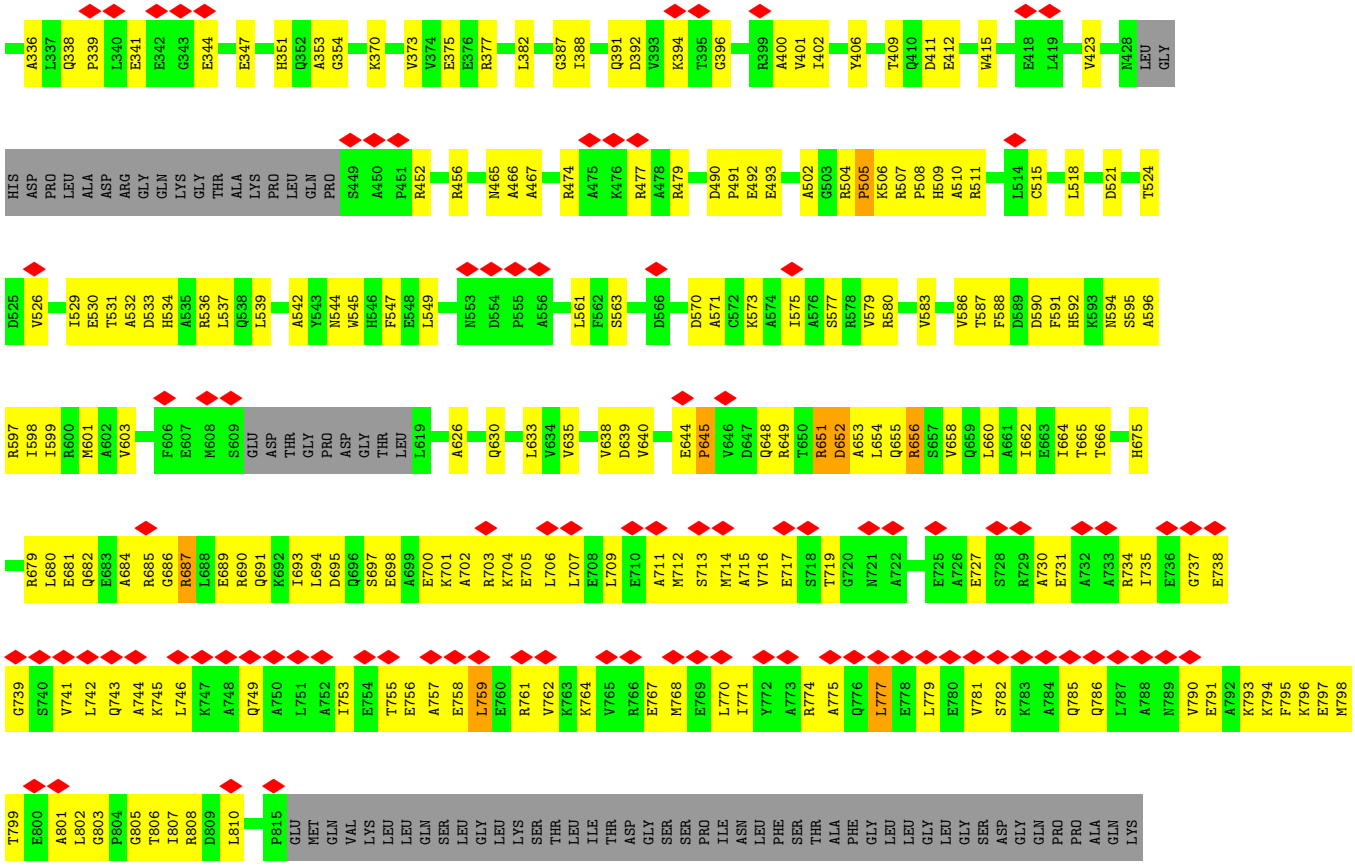




• Molecule 1: Major vault protein

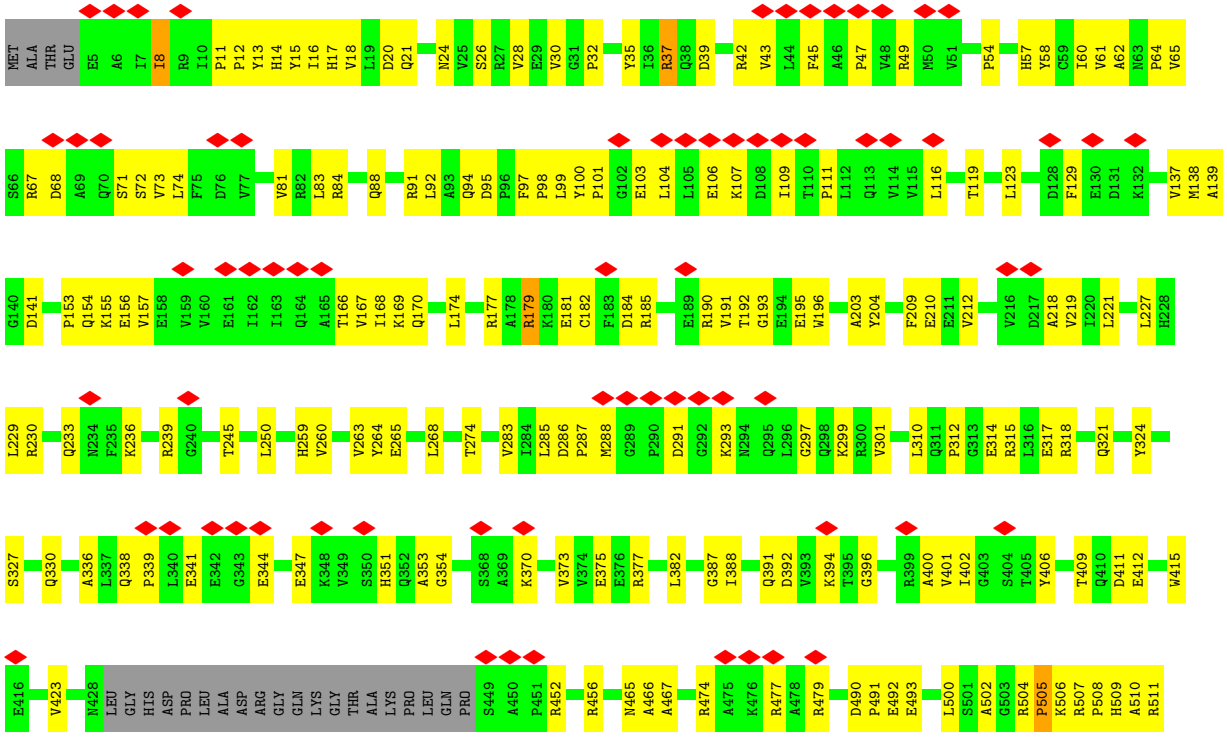
Chain UB:

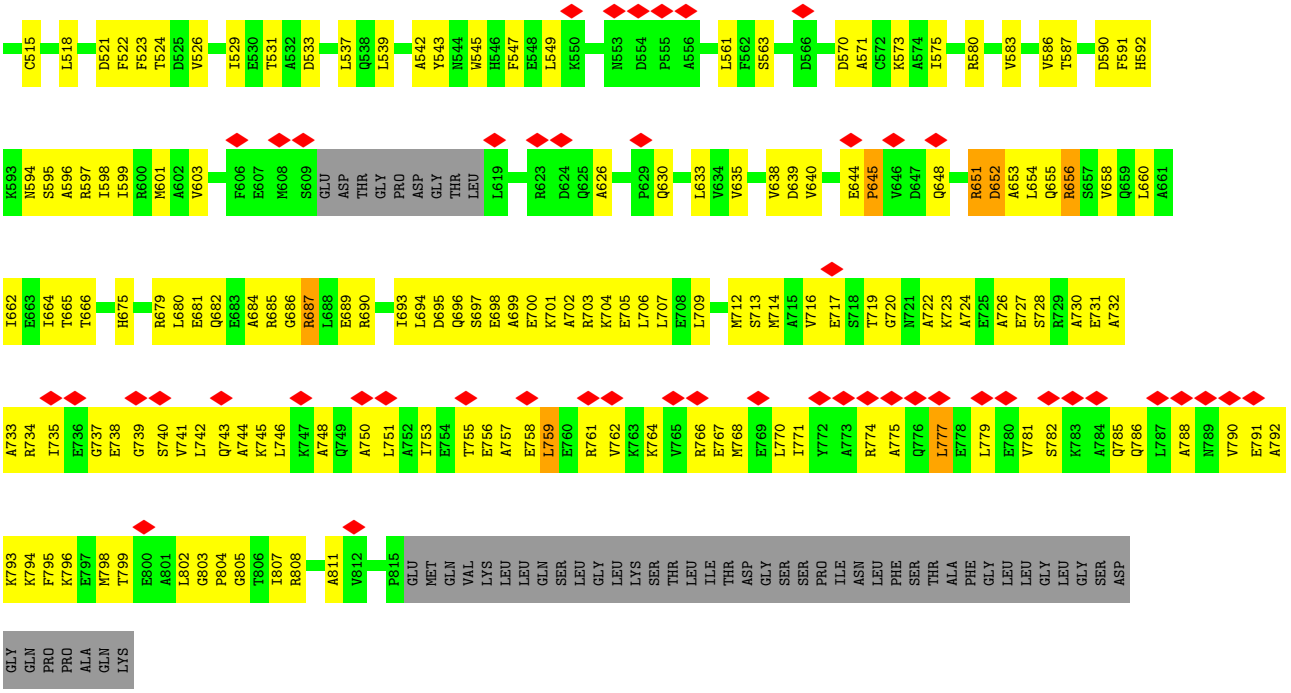




• Molecule 1: Major vault protein

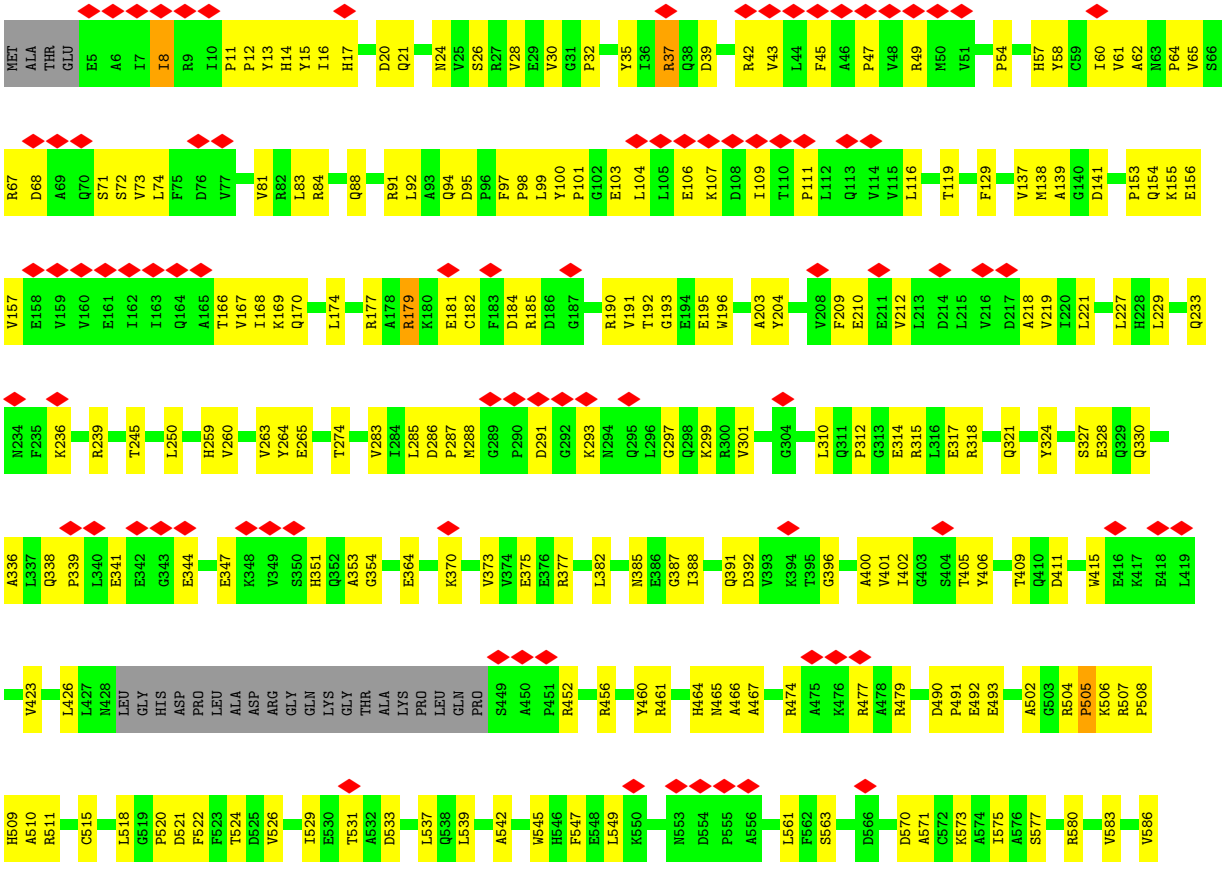
Chain VB:

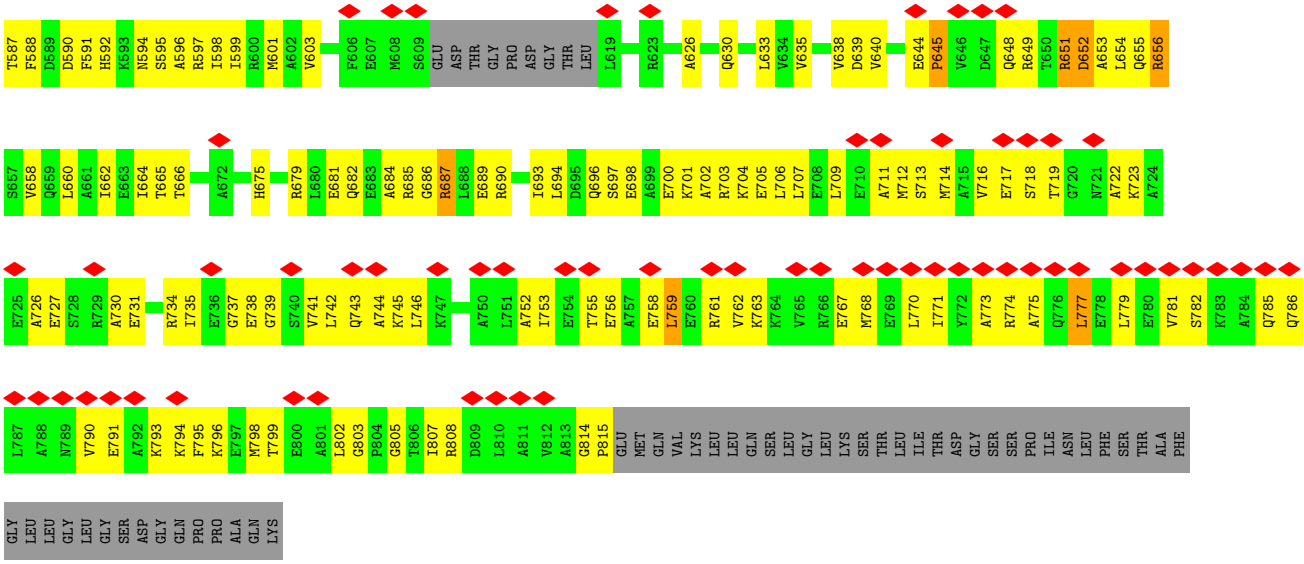




• Molecule 1: Major vault protein

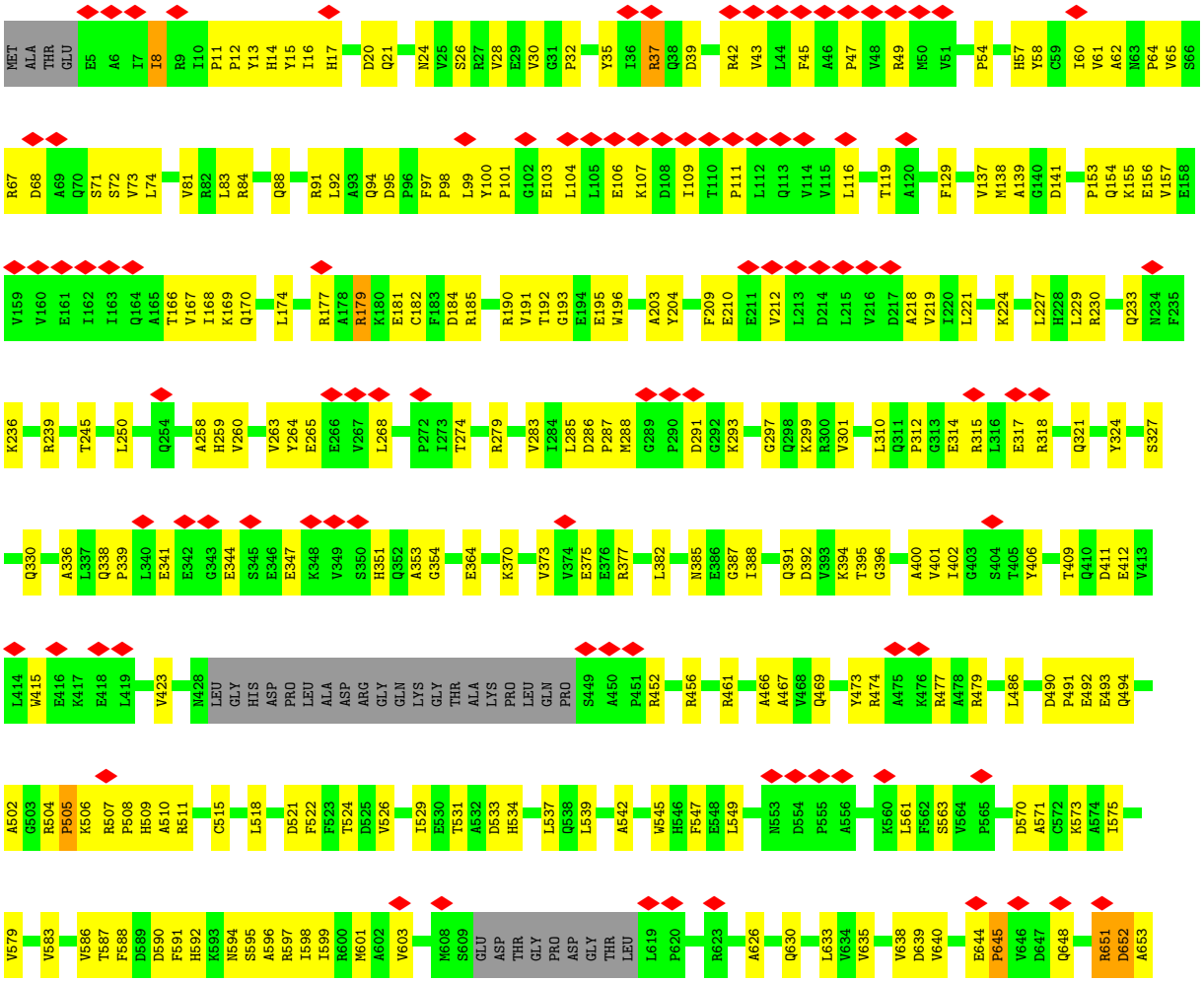
Chain WB:

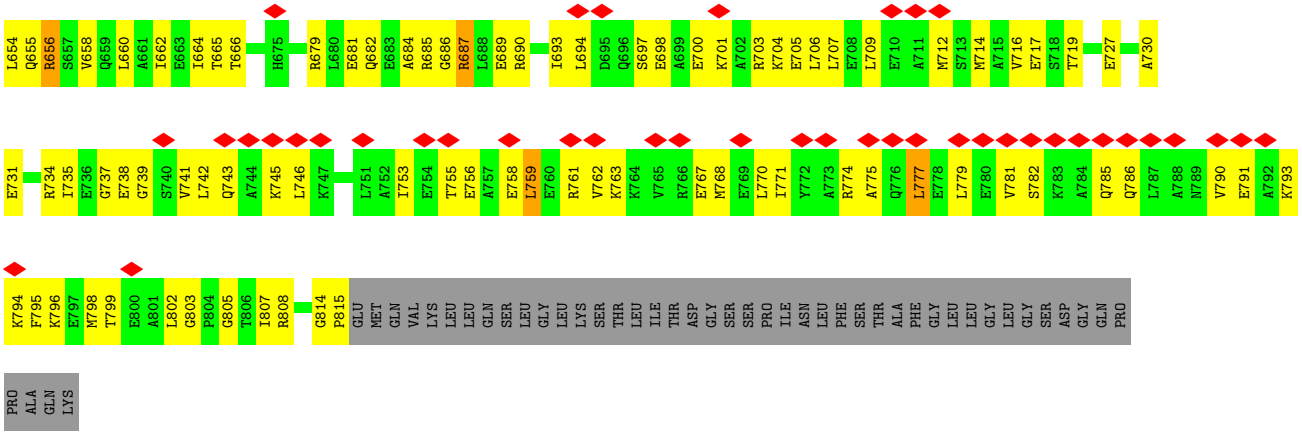




• Molecule 1: Major vault protein

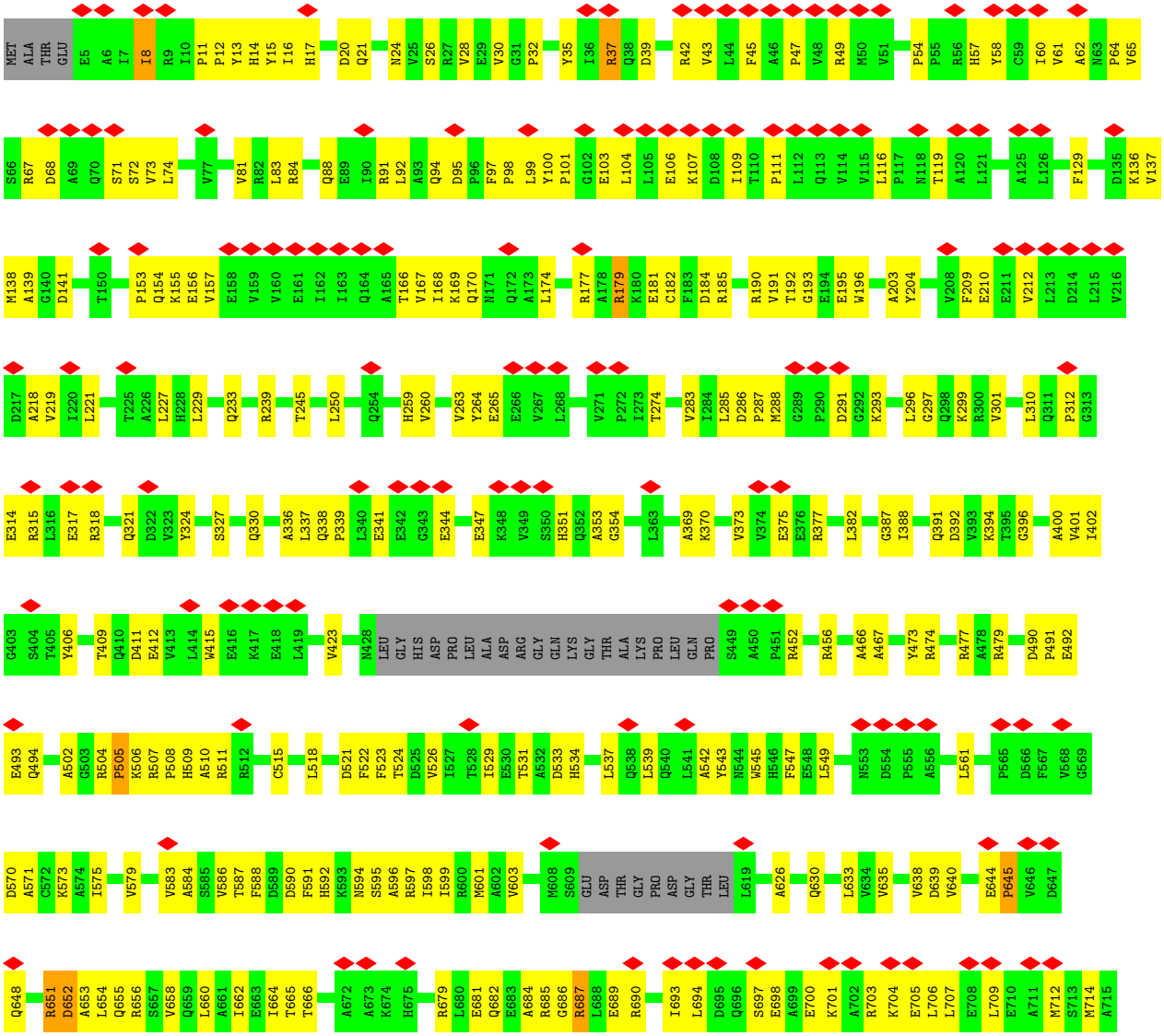
Chain XB:

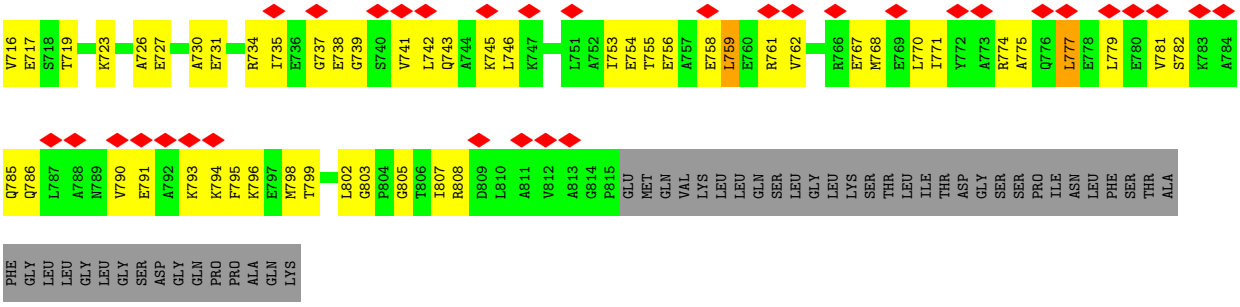




• Molecule 1: Major vault protein

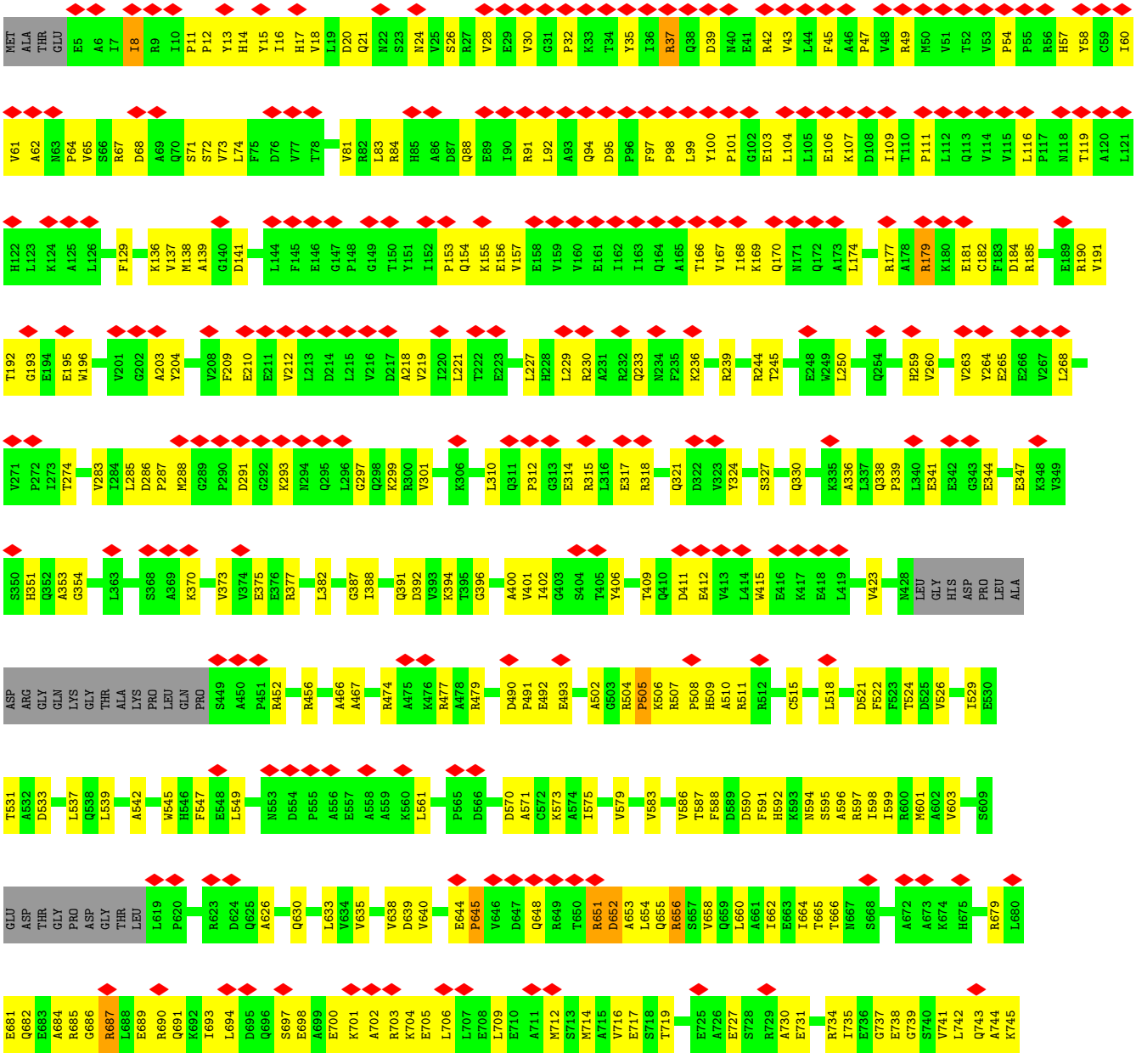
Chain YB:

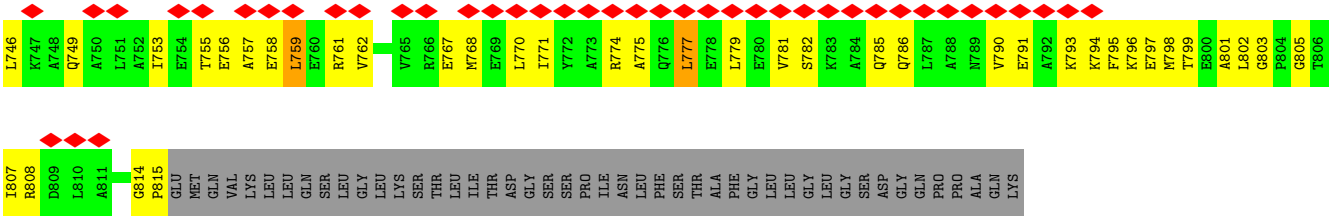




• Molecule 1: Major vault protein

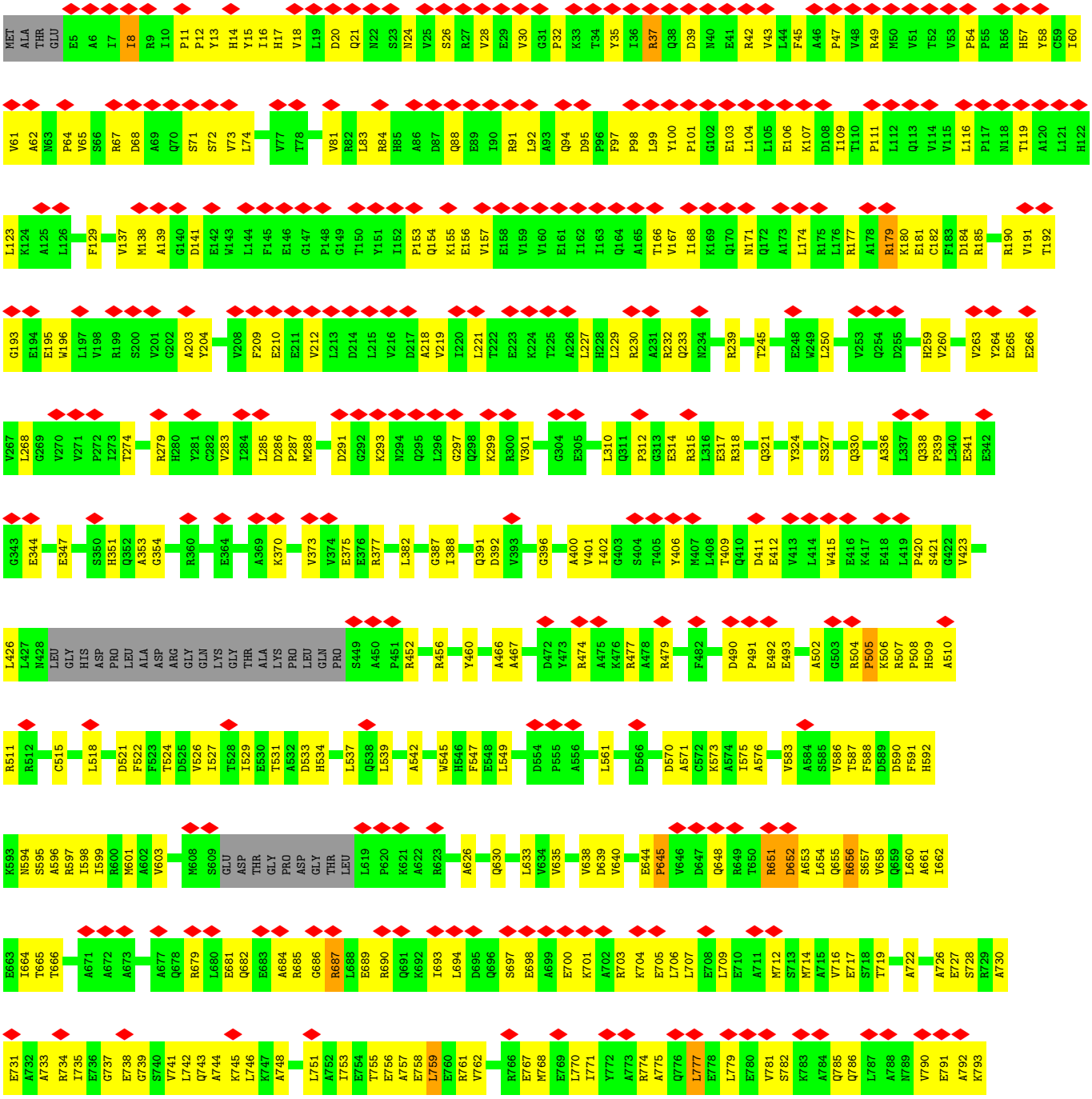
Chain ZB:

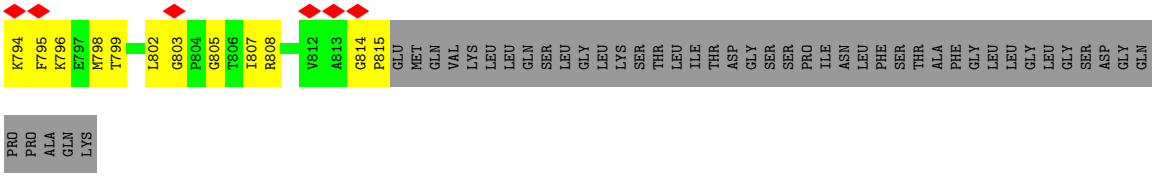




• Molecule 1: Major vault protein

Chain AC:

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P815
GLU MET GLN VAL LYS LEU LEU GLN SER LEU GLY LEU LYS SER THR LEU ILE THR ASP GLY SER SER PRO ILE ASN LEU PHE SER THR ALA PHE GLY LEU LEU GLY LEU GLY SER ASP GLY GLN
PRO PRO ALA GLN LYS

4 Experimental information (i)

Property	Value	Source
EM reconstruction method	SINGLE PARTICLE	Depositor
Imposed symmetry	POINT, Not provided	
Number of particles used	20864	Depositor
Resolution determination method	FSC 0.143 CUT-OFF	Depositor
CTF correction method	PHASE FLIPPING AND AMPLITUDE CORRECTION	Depositor
Microscope	FEI TITAN KRIOS	Depositor
Voltage (kV)	300	Depositor
Electron dose ($e^-/Å^2$)	41.9	Depositor
Minimum defocus (nm)	Not provided	
Maximum defocus (nm)	Not provided	
Magnification	Not provided	
Image detector	GATAN K2 QUANTUM (4k x 4k)	Depositor
Maximum map value	0.322	Depositor
Minimum map value	-0.098	Depositor
Average map value	0.000	Depositor
Map value standard deviation	0.023	Depositor
Recommended contour level	0.07	Depositor
Map size (Å)	735.0, 735.0, 735.0	wwPDB
Map dimensions	200, 200, 200	wwPDB
Map angles (°)	90.0, 90.0, 90.0	wwPDB
Pixel spacing (Å)	3.675, 3.675, 3.675	Depositor

5 Model quality

5.1 Standard geometry

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

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	$\#\|Z\| > 5$	RMSZ	$\#\|Z\| > 5$
1	A	0.27	0/6255	0.58	3/8474 (0.0%)
1	AA	0.27	0/6255	0.58	3/8474 (0.0%)
1	AB	0.27	0/6255	0.58	3/8474 (0.0%)
1	AC	0.27	0/6255	0.58	3/8474 (0.0%)
1	B	0.27	0/6255	0.58	3/8474 (0.0%)
1	BA	0.27	0/6255	0.59	3/8474 (0.0%)
1	BB	0.27	0/6255	0.58	3/8474 (0.0%)
1	C	0.27	0/6255	0.58	3/8474 (0.0%)
1	CA	0.27	0/6255	0.58	3/8474 (0.0%)
1	CB	0.27	0/6255	0.58	3/8474 (0.0%)
1	D	0.27	0/6255	0.58	3/8474 (0.0%)
1	DA	0.27	0/6255	0.58	3/8474 (0.0%)
1	DB	0.27	0/6255	0.59	3/8474 (0.0%)
1	E	0.27	0/6255	0.58	3/8474 (0.0%)
1	EA	0.27	0/6255	0.59	3/8474 (0.0%)
1	EB	0.27	0/6255	0.58	3/8474 (0.0%)
1	F	0.27	0/6255	0.58	3/8474 (0.0%)
1	FA	0.27	0/6255	0.59	3/8474 (0.0%)
1	FB	0.27	0/6255	0.58	3/8474 (0.0%)
1	G	0.27	0/6255	0.58	3/8474 (0.0%)
1	GA	0.27	0/6255	0.58	3/8474 (0.0%)
1	GB	0.27	0/6255	0.58	3/8474 (0.0%)
1	H	0.27	0/6255	0.58	3/8474 (0.0%)
1	HA	0.27	0/6255	0.59	3/8474 (0.0%)
1	HB	0.27	0/6255	0.59	2/8474 (0.0%)
1	I	0.27	0/6255	0.58	3/8474 (0.0%)
1	IA	0.27	0/6255	0.59	3/8474 (0.0%)
1	IB	0.27	0/6255	0.58	2/8474 (0.0%)
1	J	0.27	0/6255	0.58	3/8474 (0.0%)
1	JA	0.27	0/6255	0.58	3/8474 (0.0%)
1	JB	0.27	0/6255	0.58	3/8474 (0.0%)
1	K	0.27	0/6255	0.58	3/8474 (0.0%)
1	KA	0.27	0/6255	0.58	3/8474 (0.0%)
1	KB	0.27	0/6255	0.58	3/8474 (0.0%)

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	#|Z| >5	RMSZ	#|Z| >5
1	L	0.27	0/6255	0.59	3/8474 (0.0%)
1	LA	0.27	0/6255	0.58	3/8474 (0.0%)
1	LB	0.27	0/6255	0.59	3/8474 (0.0%)
1	M	0.27	0/6255	0.59	3/8474 (0.0%)
1	MA	0.27	0/6255	0.59	2/8474 (0.0%)
1	MB	0.27	0/6255	0.58	3/8474 (0.0%)
1	N	0.27	0/6255	0.58	3/8474 (0.0%)
1	NA	0.27	0/6255	0.58	3/8474 (0.0%)
1	NB	0.27	0/6255	0.58	3/8474 (0.0%)
1	O	0.27	0/6255	0.58	3/8474 (0.0%)
1	OA	0.27	0/6255	0.58	3/8474 (0.0%)
1	OB	0.27	0/6255	0.58	3/8474 (0.0%)
1	P	0.27	0/6255	0.58	3/8474 (0.0%)
1	PA	0.27	0/6255	0.58	3/8474 (0.0%)
1	PB	0.27	0/6255	0.58	3/8474 (0.0%)
1	Q	0.27	0/6255	0.58	3/8474 (0.0%)
1	QA	0.27	0/6255	0.58	3/8474 (0.0%)
1	QB	0.27	0/6255	0.58	3/8474 (0.0%)
1	R	0.27	0/6255	0.58	3/8474 (0.0%)
1	RA	0.27	0/6255	0.58	3/8474 (0.0%)
1	RB	0.27	0/6255	0.58	3/8474 (0.0%)
1	S	0.27	0/6255	0.58	3/8474 (0.0%)
1	SA	0.27	0/6255	0.58	3/8474 (0.0%)
1	SB	0.27	0/6255	0.58	3/8474 (0.0%)
1	T	0.27	0/6255	0.59	3/8474 (0.0%)
1	TA	0.27	0/6255	0.59	3/8474 (0.0%)
1	TB	0.27	0/6255	0.58	3/8474 (0.0%)
1	UA	0.27	0/6255	0.58	3/8474 (0.0%)
1	UB	0.27	0/6255	0.58	3/8474 (0.0%)
1	V	0.27	0/6255	0.58	3/8474 (0.0%)
1	VA	0.27	0/6255	0.58	3/8474 (0.0%)
1	VB	0.27	0/6255	0.58	3/8474 (0.0%)
1	W	0.27	0/6255	0.58	3/8474 (0.0%)
1	WA	0.27	0/6255	0.58	3/8474 (0.0%)
1	WB	0.27	0/6255	0.58	3/8474 (0.0%)
1	X	0.27	0/6255	0.58	3/8474 (0.0%)
1	XA	0.27	0/6255	0.59	3/8474 (0.0%)
1	XB	0.27	0/6255	0.59	3/8474 (0.0%)
1	Y	0.27	0/6255	0.59	3/8474 (0.0%)
1	YA	0.27	0/6255	0.58	3/8474 (0.0%)
1	YB	0.27	0/6255	0.58	3/8474 (0.0%)
1	Z	0.27	0/6255	0.59	3/8474 (0.0%)
1	ZA	0.27	0/6255	0.58	3/8474 (0.0%)

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	$\#\|Z\|>5$	RMSZ	$\#\|Z\|>5$
1	ZB	0.27	0/6255	0.58	3/8474 (0.0%)
All	All	0.27	0/487890	0.58	231/660972 (0.0%)

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

Mol	Chain	#Chirality outliers	#Planarity outliers
1	A	0	3
1	AA	0	3
1	AB	0	3
1	AC	0	3
1	B	0	3
1	BA	0	3
1	BB	0	3
1	C	0	3
1	CA	0	3
1	CB	0	3
1	D	0	3
1	DA	0	3
1	DB	0	3
1	E	0	3
1	EA	0	3
1	EB	0	3
1	F	0	3
1	FA	0	3
1	FB	0	3
1	G	0	3
1	GA	0	3
1	GB	0	3
1	H	0	3
1	HA	0	3
1	HB	0	3
1	I	0	3
1	IA	0	3
1	IB	0	3
1	J	0	3
1	JA	0	3
1	JB	0	3
1	K	0	3
1	KA	0	3

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Mol	Chain	#Chirality outliers	#Planarity outliers
1	KB	0	3
1	L	0	3
1	LA	0	3
1	LB	0	3
1	M	0	3
1	MA	0	3
1	MB	0	3
1	N	0	3
1	NA	0	3
1	NB	0	3
1	O	0	3
1	OA	0	3
1	OB	0	3
1	P	0	3
1	PA	0	3
1	PB	0	3
1	Q	0	3
1	QA	0	3
1	QB	0	3
1	R	0	3
1	RA	0	3
1	RB	0	3
1	S	0	3
1	SA	0	3
1	SB	0	3
1	T	0	3
1	TA	0	3
1	TB	0	3
1	UA	0	3
1	UB	0	3
1	V	0	3
1	VA	0	3
1	VB	0	3
1	W	0	3
1	WA	0	3
1	WB	0	3
1	X	0	3
1	XA	0	3
1	XB	0	3
1	Y	0	3
1	YA	0	3
1	YB	0	3

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Mol	Chain	#Chirality outliers	#Planarity outliers
1	Z	0	3
1	ZA	0	3
1	ZB	0	3
All	All	0	234

There are no bond length outliers.

All (231) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	T	777	LEU	CA-CB-CG	6.98	131.36	115.30
1	Z	777	LEU	CA-CB-CG	6.98	131.35	115.30
1	IA	777	LEU	CA-CB-CG	6.98	131.35	115.30
1	F	777	LEU	CA-CB-CG	6.98	131.34	115.30
1	QA	777	LEU	CA-CB-CG	6.98	131.35	115.30
1	KA	777	LEU	CA-CB-CG	6.97	131.34	115.30
1	H	777	LEU	CA-CB-CG	6.97	131.33	115.30
1	R	777	LEU	CA-CB-CG	6.97	131.33	115.30
1	XA	777	LEU	CA-CB-CG	6.97	131.33	115.30
1	Y	777	LEU	CA-CB-CG	6.97	131.33	115.30
1	MA	777	LEU	CA-CB-CG	6.97	131.33	115.30
1	DB	777	LEU	CA-CB-CG	6.97	131.33	115.30
1	JB	777	LEU	CA-CB-CG	6.97	131.33	115.30
1	TB	777	LEU	CA-CB-CG	6.97	131.33	115.30
1	VB	777	LEU	CA-CB-CG	6.97	131.33	115.30
1	KB	777	LEU	CA-CB-CG	6.97	131.33	115.30
1	G	777	LEU	CA-CB-CG	6.97	131.32	115.30
1	OA	777	LEU	CA-CB-CG	6.97	131.32	115.30
1	UB	777	LEU	CA-CB-CG	6.97	131.32	115.30
1	WB	777	LEU	CA-CB-CG	6.97	131.32	115.30
1	N	777	LEU	CA-CB-CG	6.96	131.32	115.30
1	S	777	LEU	CA-CB-CG	6.96	131.32	115.30
1	LB	777	LEU	CA-CB-CG	6.96	131.32	115.30
1	QB	777	LEU	CA-CB-CG	6.96	131.32	115.30
1	V	777	LEU	CA-CB-CG	6.96	131.31	115.30
1	AA	777	LEU	CA-CB-CG	6.96	131.31	115.30
1	D	777	LEU	CA-CB-CG	6.96	131.31	115.30
1	LA	777	LEU	CA-CB-CG	6.96	131.31	115.30
1	EB	777	LEU	CA-CB-CG	6.96	131.31	115.30
1	ZB	777	LEU	CA-CB-CG	6.96	131.31	115.30
1	ZA	777	LEU	CA-CB-CG	6.96	131.31	115.30
1	A	777	LEU	CA-CB-CG	6.96	131.30	115.30
1	VA	777	LEU	CA-CB-CG	6.96	131.30	115.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AB	777	LEU	CA-CB-CG	6.96	131.30	115.30
1	GA	777	LEU	CA-CB-CG	6.96	131.30	115.30
1	WA	777	LEU	CA-CB-CG	6.96	131.30	115.30
1	AC	777	LEU	CA-CB-CG	6.96	131.30	115.30
1	E	777	LEU	CA-CB-CG	6.96	131.30	115.30
1	PA	777	LEU	CA-CB-CG	6.96	131.30	115.30
1	XB	777	LEU	CA-CB-CG	6.96	131.30	115.30
1	B	777	LEU	CA-CB-CG	6.95	131.29	115.30
1	I	777	LEU	CA-CB-CG	6.95	131.29	115.30
1	M	777	LEU	CA-CB-CG	6.95	131.29	115.30
1	Q	777	LEU	CA-CB-CG	6.95	131.29	115.30
1	W	777	LEU	CA-CB-CG	6.95	131.29	115.30
1	DA	777	LEU	CA-CB-CG	6.95	131.29	115.30
1	EA	777	LEU	CA-CB-CG	6.95	131.29	115.30
1	HA	777	LEU	CA-CB-CG	6.95	131.29	115.30
1	RA	777	LEU	CA-CB-CG	6.95	131.29	115.30
1	J	777	LEU	CA-CB-CG	6.95	131.29	115.30
1	TA	777	LEU	CA-CB-CG	6.95	131.29	115.30
1	IB	777	LEU	CA-CB-CG	6.95	131.29	115.30
1	NB	777	LEU	CA-CB-CG	6.95	131.29	115.30
1	X	777	LEU	CA-CB-CG	6.95	131.29	115.30
1	CB	777	LEU	CA-CB-CG	6.95	131.28	115.30
1	GB	777	LEU	CA-CB-CG	6.95	131.29	115.30
1	L	777	LEU	CA-CB-CG	6.95	131.28	115.30
1	P	777	LEU	CA-CB-CG	6.95	131.28	115.30
1	FB	777	LEU	CA-CB-CG	6.95	131.28	115.30
1	C	777	LEU	CA-CB-CG	6.95	131.27	115.30
1	BA	777	LEU	CA-CB-CG	6.95	131.27	115.30
1	FA	777	LEU	CA-CB-CG	6.95	131.27	115.30
1	NA	777	LEU	CA-CB-CG	6.95	131.28	115.30
1	HB	777	LEU	CA-CB-CG	6.95	131.27	115.30
1	RB	777	LEU	CA-CB-CG	6.95	131.28	115.30
1	SB	777	LEU	CA-CB-CG	6.95	131.27	115.30
1	YA	777	LEU	CA-CB-CG	6.94	131.27	115.30
1	K	777	LEU	CA-CB-CG	6.94	131.27	115.30
1	O	777	LEU	CA-CB-CG	6.94	131.27	115.30
1	UA	777	LEU	CA-CB-CG	6.94	131.27	115.30
1	MB	777	LEU	CA-CB-CG	6.94	131.27	115.30
1	OB	777	LEU	CA-CB-CG	6.94	131.27	115.30
1	BB	777	LEU	CA-CB-CG	6.94	131.26	115.30
1	CA	777	LEU	CA-CB-CG	6.94	131.26	115.30
1	SA	777	LEU	CA-CB-CG	6.94	131.26	115.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	PB	777	LEU	CA-CB-CG	6.93	131.25	115.30
1	JA	777	LEU	CA-CB-CG	6.93	131.25	115.30
1	YB	777	LEU	CA-CB-CG	6.93	131.24	115.30
1	W	759	LEU	CA-CB-CG	6.28	129.73	115.30
1	EB	759	LEU	CA-CB-CG	6.27	129.72	115.30
1	K	759	LEU	CA-CB-CG	6.27	129.72	115.30
1	LA	759	LEU	CA-CB-CG	6.27	129.72	115.30
1	TA	759	LEU	CA-CB-CG	6.27	129.72	115.30
1	T	759	LEU	CA-CB-CG	6.27	129.71	115.30
1	DA	759	LEU	CA-CB-CG	6.26	129.71	115.30
1	ZA	759	LEU	CA-CB-CG	6.26	129.71	115.30
1	M	759	LEU	CA-CB-CG	6.26	129.70	115.30
1	CA	759	LEU	CA-CB-CG	6.26	129.70	115.30
1	Z	759	LEU	CA-CB-CG	6.26	129.69	115.30
1	BA	759	LEU	CA-CB-CG	6.26	129.69	115.30
1	MA	759	LEU	CA-CB-CG	6.26	129.70	115.30
1	MB	759	LEU	CA-CB-CG	6.26	129.70	115.30
1	S	759	LEU	CA-CB-CG	6.26	129.69	115.30
1	UA	759	LEU	CA-CB-CG	6.26	129.69	115.30
1	YA	759	LEU	CA-CB-CG	6.26	129.69	115.30
1	AB	759	LEU	CA-CB-CG	6.26	129.69	115.30
1	CB	759	LEU	CA-CB-CG	6.26	129.69	115.30
1	B	759	LEU	CA-CB-CG	6.25	129.69	115.30
1	O	759	LEU	CA-CB-CG	6.25	129.68	115.30
1	Y	759	LEU	CA-CB-CG	6.25	129.69	115.30
1	IA	759	LEU	CA-CB-CG	6.25	129.68	115.30
1	DB	759	LEU	CA-CB-CG	6.25	129.68	115.30
1	KB	759	LEU	CA-CB-CG	6.25	129.68	115.30
1	TB	759	LEU	CA-CB-CG	6.25	129.69	115.30
1	WB	759	LEU	CA-CB-CG	6.25	129.68	115.30
1	P	759	LEU	CA-CB-CG	6.25	129.68	115.30
1	BB	759	LEU	CA-CB-CG	6.25	129.68	115.30
1	C	759	LEU	CA-CB-CG	6.25	129.68	115.30
1	V	759	LEU	CA-CB-CG	6.25	129.68	115.30
1	PA	759	LEU	CA-CB-CG	6.25	129.68	115.30
1	RA	759	LEU	CA-CB-CG	6.25	129.68	115.30
1	RB	759	LEU	CA-CB-CG	6.25	129.67	115.30
1	E	759	LEU	CA-CB-CG	6.25	129.67	115.30
1	H	759	LEU	CA-CB-CG	6.25	129.67	115.30
1	I	759	LEU	CA-CB-CG	6.25	129.67	115.30
1	QA	759	LEU	CA-CB-CG	6.25	129.67	115.30
1	IB	759	LEU	CA-CB-CG	6.25	129.67	115.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	NB	759	LEU	CA-CB-CG	6.25	129.67	115.30
1	YB	759	LEU	CA-CB-CG	6.25	129.67	115.30
1	GA	759	LEU	CA-CB-CG	6.25	129.67	115.30
1	JA	759	LEU	CA-CB-CG	6.25	129.67	115.30
1	SA	759	LEU	CA-CB-CG	6.25	129.67	115.30
1	HB	759	LEU	CA-CB-CG	6.25	129.67	115.30
1	JB	759	LEU	CA-CB-CG	6.25	129.67	115.30
1	VB	759	LEU	CA-CB-CG	6.25	129.66	115.30
1	FB	759	LEU	CA-CB-CG	6.25	129.66	115.30
1	XB	759	LEU	CA-CB-CG	6.25	129.66	115.30
1	F	759	LEU	CA-CB-CG	6.24	129.66	115.30
1	G	759	LEU	CA-CB-CG	6.24	129.66	115.30
1	KA	759	LEU	CA-CB-CG	6.24	129.66	115.30
1	OA	759	LEU	CA-CB-CG	6.24	129.66	115.30
1	VA	759	LEU	CA-CB-CG	6.24	129.66	115.30
1	QB	759	LEU	CA-CB-CG	6.24	129.66	115.30
1	UB	759	LEU	CA-CB-CG	6.24	129.66	115.30
1	Q	759	LEU	CA-CB-CG	6.24	129.66	115.30
1	PB	759	LEU	CA-CB-CG	6.24	129.66	115.30
1	L	759	LEU	CA-CB-CG	6.24	129.65	115.30
1	EA	759	LEU	CA-CB-CG	6.24	129.65	115.30
1	SB	759	LEU	CA-CB-CG	6.24	129.66	115.30
1	A	759	LEU	CA-CB-CG	6.24	129.65	115.30
1	J	759	LEU	CA-CB-CG	6.24	129.65	115.30
1	R	759	LEU	CA-CB-CG	6.24	129.65	115.30
1	WA	759	LEU	CA-CB-CG	6.24	129.65	115.30
1	LB	759	LEU	CA-CB-CG	6.24	129.65	115.30
1	D	759	LEU	CA-CB-CG	6.24	129.65	115.30
1	N	759	LEU	CA-CB-CG	6.24	129.64	115.30
1	XA	759	LEU	CA-CB-CG	6.24	129.64	115.30
1	AC	759	LEU	CA-CB-CG	6.23	129.64	115.30
1	FA	759	LEU	CA-CB-CG	6.23	129.63	115.30
1	HA	759	LEU	CA-CB-CG	6.23	129.64	115.30
1	NA	759	LEU	CA-CB-CG	6.23	129.64	115.30
1	X	759	LEU	CA-CB-CG	6.23	129.62	115.30
1	GB	759	LEU	CA-CB-CG	6.23	129.62	115.30
1	OB	759	LEU	CA-CB-CG	6.23	129.62	115.30
1	ZB	759	LEU	CA-CB-CG	6.23	129.62	115.30
1	AA	759	LEU	CA-CB-CG	6.22	129.62	115.30
1	Y	759	LEU	CB-CG-CD1	-5.06	102.39	111.00
1	D	759	LEU	CB-CG-CD1	-5.06	102.40	111.00
1	YA	759	LEU	CB-CG-CD1	-5.05	102.41	111.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	J	759	LEU	CB-CG-CD1	-5.05	102.42	111.00
1	S	759	LEU	CB-CG-CD1	-5.05	102.42	111.00
1	FA	759	LEU	CB-CG-CD1	-5.05	102.42	111.00
1	BB	759	LEU	CB-CG-CD1	-5.05	102.42	111.00
1	CB	759	LEU	CB-CG-CD1	-5.05	102.42	111.00
1	N	759	LEU	CB-CG-CD1	-5.04	102.43	111.00
1	RB	759	LEU	CB-CG-CD1	-5.04	102.42	111.00
1	C	759	LEU	CB-CG-CD1	-5.04	102.43	111.00
1	K	759	LEU	CB-CG-CD1	-5.04	102.43	111.00
1	AA	759	LEU	CB-CG-CD1	-5.04	102.43	111.00
1	NB	759	LEU	CB-CG-CD1	-5.04	102.43	111.00
1	TB	759	LEU	CB-CG-CD1	-5.04	102.43	111.00
1	F	759	LEU	CB-CG-CD1	-5.04	102.43	111.00
1	Q	759	LEU	CB-CG-CD1	-5.04	102.43	111.00
1	EA	759	LEU	CB-CG-CD1	-5.04	102.43	111.00
1	GA	759	LEU	CB-CG-CD1	-5.04	102.43	111.00
1	UA	759	LEU	CB-CG-CD1	-5.04	102.43	111.00
1	LB	759	LEU	CB-CG-CD1	-5.04	102.43	111.00
1	A	759	LEU	CB-CG-CD1	-5.04	102.44	111.00
1	DA	759	LEU	CB-CG-CD1	-5.04	102.44	111.00
1	VB	759	LEU	CB-CG-CD1	-5.04	102.44	111.00
1	WB	759	LEU	CB-CG-CD1	-5.04	102.44	111.00
1	AC	759	LEU	CB-CG-CD1	-5.04	102.44	111.00
1	P	759	LEU	CB-CG-CD1	-5.04	102.44	111.00
1	Z	759	LEU	CB-CG-CD1	-5.04	102.44	111.00
1	CA	759	LEU	CB-CG-CD1	-5.04	102.44	111.00
1	SA	759	LEU	CB-CG-CD1	-5.04	102.44	111.00
1	TA	759	LEU	CB-CG-CD1	-5.04	102.44	111.00
1	AB	759	LEU	CB-CG-CD1	-5.04	102.44	111.00
1	B	759	LEU	CB-CG-CD1	-5.03	102.44	111.00
1	QA	759	LEU	CB-CG-CD1	-5.03	102.44	111.00
1	QB	759	LEU	CB-CG-CD1	-5.03	102.44	111.00
1	E	759	LEU	CB-CG-CD1	-5.03	102.45	111.00
1	T	759	LEU	CB-CG-CD1	-5.03	102.45	111.00
1	W	759	LEU	CB-CG-CD1	-5.03	102.45	111.00
1	BA	759	LEU	CB-CG-CD1	-5.03	102.45	111.00
1	KA	759	LEU	CB-CG-CD1	-5.03	102.45	111.00
1	VA	759	LEU	CB-CG-CD1	-5.03	102.45	111.00
1	FB	759	LEU	CB-CG-CD1	-5.03	102.45	111.00
1	H	759	LEU	CB-CG-CD1	-5.03	102.45	111.00
1	JA	759	LEU	CB-CG-CD1	-5.03	102.45	111.00
1	PA	759	LEU	CB-CG-CD1	-5.03	102.45	111.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	XA	759	LEU	CB-CG-CD1	-5.03	102.45	111.00
1	M	759	LEU	CB-CG-CD1	-5.03	102.45	111.00
1	O	759	LEU	CB-CG-CD1	-5.03	102.46	111.00
1	R	759	LEU	CB-CG-CD1	-5.03	102.46	111.00
1	RA	759	LEU	CB-CG-CD1	-5.03	102.46	111.00
1	GB	759	LEU	CB-CG-CD1	-5.03	102.46	111.00
1	MB	759	LEU	CB-CG-CD1	-5.03	102.46	111.00
1	UB	759	LEU	CB-CG-CD1	-5.03	102.46	111.00
1	X	759	LEU	CB-CG-CD1	-5.02	102.46	111.00
1	HA	759	LEU	CB-CG-CD1	-5.02	102.46	111.00
1	WA	759	LEU	CB-CG-CD1	-5.02	102.46	111.00
1	XB	759	LEU	CB-CG-CD1	-5.02	102.46	111.00
1	LA	759	LEU	CB-CG-CD1	-5.02	102.47	111.00
1	ZA	759	LEU	CB-CG-CD1	-5.02	102.47	111.00
1	G	759	LEU	CB-CG-CD1	-5.02	102.47	111.00
1	NA	759	LEU	CB-CG-CD1	-5.02	102.47	111.00
1	DB	759	LEU	CB-CG-CD1	-5.02	102.47	111.00
1	YB	759	LEU	CB-CG-CD1	-5.02	102.47	111.00
1	EB	759	LEU	CB-CG-CD1	-5.02	102.47	111.00
1	SB	759	LEU	CB-CG-CD1	-5.02	102.47	111.00
1	PB	759	LEU	CB-CG-CD1	-5.01	102.48	111.00
1	I	759	LEU	CB-CG-CD1	-5.01	102.48	111.00
1	IA	759	LEU	CB-CG-CD1	-5.01	102.48	111.00
1	L	759	LEU	CB-CG-CD1	-5.01	102.48	111.00
1	V	759	LEU	CB-CG-CD1	-5.01	102.48	111.00
1	OA	759	LEU	CB-CG-CD1	-5.01	102.48	111.00
1	OB	759	LEU	CB-CG-CD1	-5.01	102.49	111.00
1	JB	759	LEU	CB-CG-CD1	-5.01	102.49	111.00
1	KB	759	LEU	CB-CG-CD1	-5.00	102.49	111.00
1	ZB	759	LEU	CB-CG-CD1	-5.00	102.49	111.00

There are no chirality outliers.

All (234) planarity outliers are listed below:

Mol	Chain	Res	Type	Group
1	A	37	ARG	Peptide
1	A	644	GLU	Peptide
1	A	8	ILE	Peptide
1	AA	37	ARG	Peptide
1	AA	644	GLU	Peptide
1	AA	8	ILE	Peptide
1	AB	37	ARG	Peptide

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Mol	Chain	Res	Type	Group
1	AB	644	GLU	Peptide
1	AB	8	ILE	Peptide
1	AC	37	ARG	Peptide
1	AC	644	GLU	Peptide
1	AC	8	ILE	Peptide
1	B	37	ARG	Peptide
1	B	644	GLU	Peptide
1	B	8	ILE	Peptide
1	BA	37	ARG	Peptide
1	BA	644	GLU	Peptide
1	BA	8	ILE	Peptide
1	BB	37	ARG	Peptide
1	BB	644	GLU	Peptide
1	BB	8	ILE	Peptide
1	C	37	ARG	Peptide
1	C	644	GLU	Peptide
1	C	8	ILE	Peptide
1	CA	37	ARG	Peptide
1	CA	644	GLU	Peptide
1	CA	8	ILE	Peptide
1	CB	37	ARG	Peptide
1	CB	644	GLU	Peptide
1	CB	8	ILE	Peptide
1	D	37	ARG	Peptide
1	D	644	GLU	Peptide
1	D	8	ILE	Peptide
1	DA	37	ARG	Peptide
1	DA	644	GLU	Peptide
1	DA	8	ILE	Peptide
1	DB	37	ARG	Peptide
1	DB	644	GLU	Peptide
1	DB	8	ILE	Peptide
1	E	37	ARG	Peptide
1	E	644	GLU	Peptide
1	E	8	ILE	Peptide
1	EA	37	ARG	Peptide
1	EA	644	GLU	Peptide
1	EA	8	ILE	Peptide
1	EB	37	ARG	Peptide
1	EB	644	GLU	Peptide
1	EB	8	ILE	Peptide
1	F	37	ARG	Peptide

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Mol	Chain	Res	Type	Group
1	F	644	GLU	Peptide
1	F	8	ILE	Peptide
1	FA	37	ARG	Peptide
1	FA	644	GLU	Peptide
1	FA	8	ILE	Peptide
1	FB	37	ARG	Peptide
1	FB	644	GLU	Peptide
1	FB	8	ILE	Peptide
1	G	37	ARG	Peptide
1	G	644	GLU	Peptide
1	G	8	ILE	Peptide
1	GA	37	ARG	Peptide
1	GA	644	GLU	Peptide
1	GA	8	ILE	Peptide
1	GB	37	ARG	Peptide
1	GB	644	GLU	Peptide
1	GB	8	ILE	Peptide
1	H	37	ARG	Peptide
1	H	644	GLU	Peptide
1	H	8	ILE	Peptide
1	HA	37	ARG	Peptide
1	HA	644	GLU	Peptide
1	HA	8	ILE	Peptide
1	HB	37	ARG	Peptide
1	HB	644	GLU	Peptide
1	HB	8	ILE	Peptide
1	I	37	ARG	Peptide
1	I	644	GLU	Peptide
1	I	8	ILE	Peptide
1	IA	37	ARG	Peptide
1	IA	644	GLU	Peptide
1	IA	8	ILE	Peptide
1	IB	37	ARG	Peptide
1	IB	644	GLU	Peptide
1	IB	8	ILE	Peptide
1	J	37	ARG	Peptide
1	J	644	GLU	Peptide
1	J	8	ILE	Peptide
1	JA	37	ARG	Peptide
1	JA	644	GLU	Peptide
1	JA	8	ILE	Peptide
1	JB	37	ARG	Peptide

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Mol	Chain	Res	Type	Group
1	JB	644	GLU	Peptide
1	JB	8	ILE	Peptide
1	K	37	ARG	Peptide
1	K	644	GLU	Peptide
1	K	8	ILE	Peptide
1	KA	37	ARG	Peptide
1	KA	644	GLU	Peptide
1	KA	8	ILE	Peptide
1	KB	37	ARG	Peptide
1	KB	644	GLU	Peptide
1	KB	8	ILE	Peptide
1	L	37	ARG	Peptide
1	L	644	GLU	Peptide
1	L	8	ILE	Peptide
1	LA	37	ARG	Peptide
1	LA	644	GLU	Peptide
1	LA	8	ILE	Peptide
1	LB	37	ARG	Peptide
1	LB	644	GLU	Peptide
1	LB	8	ILE	Peptide
1	M	37	ARG	Peptide
1	M	644	GLU	Peptide
1	M	8	ILE	Peptide
1	MA	37	ARG	Peptide
1	MA	644	GLU	Peptide
1	MA	8	ILE	Peptide
1	MB	37	ARG	Peptide
1	MB	644	GLU	Peptide
1	MB	8	ILE	Peptide
1	N	37	ARG	Peptide
1	N	644	GLU	Peptide
1	N	8	ILE	Peptide
1	NA	37	ARG	Peptide
1	NA	644	GLU	Peptide
1	NA	8	ILE	Peptide
1	NB	37	ARG	Peptide
1	NB	644	GLU	Peptide
1	NB	8	ILE	Peptide
1	O	37	ARG	Peptide
1	O	644	GLU	Peptide
1	O	8	ILE	Peptide
1	OA	37	ARG	Peptide

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Mol	Chain	Res	Type	Group
1	OA	644	GLU	Peptide
1	OA	8	ILE	Peptide
1	OB	37	ARG	Peptide
1	OB	644	GLU	Peptide
1	OB	8	ILE	Peptide
1	P	37	ARG	Peptide
1	P	644	GLU	Peptide
1	P	8	ILE	Peptide
1	PA	37	ARG	Peptide
1	PA	644	GLU	Peptide
1	PA	8	ILE	Peptide
1	PB	37	ARG	Peptide
1	PB	644	GLU	Peptide
1	PB	8	ILE	Peptide
1	Q	37	ARG	Peptide
1	Q	644	GLU	Peptide
1	Q	8	ILE	Peptide
1	QA	37	ARG	Peptide
1	QA	644	GLU	Peptide
1	QA	8	ILE	Peptide
1	QB	37	ARG	Peptide
1	QB	644	GLU	Peptide
1	QB	8	ILE	Peptide
1	R	37	ARG	Peptide
1	R	644	GLU	Peptide
1	R	8	ILE	Peptide
1	RA	37	ARG	Peptide
1	RA	644	GLU	Peptide
1	RA	8	ILE	Peptide
1	RB	37	ARG	Peptide
1	RB	644	GLU	Peptide
1	RB	8	ILE	Peptide
1	S	37	ARG	Peptide
1	S	644	GLU	Peptide
1	S	8	ILE	Peptide
1	SA	37	ARG	Peptide
1	SA	644	GLU	Peptide
1	SA	8	ILE	Peptide
1	SB	37	ARG	Peptide
1	SB	644	GLU	Peptide
1	SB	8	ILE	Peptide
1	T	37	ARG	Peptide

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Mol	Chain	Res	Type	Group
1	T	644	GLU	Peptide
1	T	8	ILE	Peptide
1	TA	37	ARG	Peptide
1	TA	644	GLU	Peptide
1	TA	8	ILE	Peptide
1	TB	37	ARG	Peptide
1	TB	644	GLU	Peptide
1	TB	8	ILE	Peptide
1	UA	37	ARG	Peptide
1	UA	644	GLU	Peptide
1	UA	8	ILE	Peptide
1	UB	37	ARG	Peptide
1	UB	644	GLU	Peptide
1	UB	8	ILE	Peptide
1	V	37	ARG	Peptide
1	V	644	GLU	Peptide
1	V	8	ILE	Peptide
1	VA	37	ARG	Peptide
1	VA	644	GLU	Peptide
1	VA	8	ILE	Peptide
1	VB	37	ARG	Peptide
1	VB	644	GLU	Peptide
1	VB	8	ILE	Peptide
1	W	37	ARG	Peptide
1	W	644	GLU	Peptide
1	W	8	ILE	Peptide
1	WA	37	ARG	Peptide
1	WA	644	GLU	Peptide
1	WA	8	ILE	Peptide
1	WB	37	ARG	Peptide
1	WB	644	GLU	Peptide
1	WB	8	ILE	Peptide
1	X	37	ARG	Peptide
1	X	644	GLU	Peptide
1	X	8	ILE	Peptide
1	XA	37	ARG	Peptide
1	XA	644	GLU	Peptide
1	XA	8	ILE	Peptide
1	XB	37	ARG	Peptide
1	XB	644	GLU	Peptide
1	XB	8	ILE	Peptide
1	Y	37	ARG	Peptide

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Mol	Chain	Res	Type	Group
1	Y	644	GLU	Peptide
1	Y	8	ILE	Peptide
1	YA	37	ARG	Peptide
1	YA	644	GLU	Peptide
1	YA	8	ILE	Peptide
1	YB	37	ARG	Peptide
1	YB	644	GLU	Peptide
1	YB	8	ILE	Peptide
1	Z	37	ARG	Peptide
1	Z	644	GLU	Peptide
1	Z	8	ILE	Peptide
1	ZA	37	ARG	Peptide
1	ZA	644	GLU	Peptide
1	ZA	8	ILE	Peptide
1	ZB	37	ARG	Peptide
1	ZB	644	GLU	Peptide
1	ZB	8	ILE	Peptide

5.2 Too-close contacts (i)

In the following table, the Non-H and H(model) columns list the number of non-hydrogen atoms and hydrogen atoms in the chain respectively. The H(added) column lists the number of hydrogen atoms added and optimized by MolProbity. The Clashes column lists the number of clashes within the asymmetric unit, whereas Symm-Clashes lists symmetry-related clashes.

Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	A	6150	0	6169	728	0
1	AA	6150	0	6170	230	0
1	AB	6150	0	6170	245	0
1	AC	6150	0	6169	430	0
1	B	6150	0	6170	391	0
1	BA	6150	0	6170	235	0
1	BB	6150	0	6170	320	0
1	C	6150	0	6168	877	0
1	CA	6150	0	6170	226	0
1	CB	6150	0	6170	303	0
1	D	6150	0	6169	912	0
1	DA	6150	0	6170	229	0
1	DB	6150	0	6170	314	0
1	E	6150	0	6170	493	0
1	EA	6150	0	6170	226	0
1	EB	6150	0	6170	320	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	F	6150	0	6169	812	0
1	FA	6150	0	6170	230	0
1	FB	6150	0	6170	396	0
1	G	6150	0	6170	313	0
1	GA	6150	0	6170	229	0
1	GB	6150	0	6170	375	0
1	H	6150	0	6170	259	0
1	HA	6150	0	6170	258	0
1	HB	6150	0	6170	236	0
1	I	6150	0	6170	288	0
1	IA	6150	0	6170	360	0
1	IB	6150	0	6170	240	0
1	J	6150	0	6170	264	0
1	JA	6150	0	6170	252	0
1	JB	6150	0	6170	245	0
1	K	6150	0	6170	260	0
1	KA	6150	0	6170	360	0
1	KB	6150	0	6170	238	0
1	L	6150	0	6170	311	0
1	LA	6150	0	6170	229	0
1	LB	6150	0	6170	511	0
1	M	6150	0	6170	230	0
1	MA	6150	0	6170	239	0
1	MB	6150	0	6170	586	0
1	N	6150	0	6170	340	0
1	NA	6150	0	6170	230	0
1	NB	6150	0	6170	376	0
1	O	6150	0	6170	230	0
1	OA	6150	0	6170	231	0
1	OB	6150	0	6169	641	0
1	P	6150	0	6170	309	0
1	PA	6150	0	6170	241	0
1	PB	6150	0	6170	619	0
1	Q	6150	0	6170	234	0
1	QA	6150	0	6170	242	0
1	QB	6150	0	6170	240	0
1	R	6150	0	6170	309	0
1	RA	6150	0	6170	240	0
1	RB	6150	0	6170	292	0
1	S	6150	0	6170	241	0
1	SA	6150	0	6170	248	0
1	SB	6150	0	6170	339	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	T	6150	0	6170	274	0
1	TA	6150	0	6170	247	0
1	TB	6150	0	6170	389	0
1	UA	6150	0	6170	232	0
1	UB	6150	0	6167	582	0
1	V	6150	0	6170	241	0
1	VA	6150	0	6170	242	0
1	VB	6150	0	6166	560	0
1	W	6150	0	6170	233	0
1	WA	6150	0	6170	227	0
1	WB	6150	0	6170	349	0
1	X	6150	0	6170	240	0
1	XA	6150	0	6170	263	0
1	XB	6150	0	6170	270	0
1	Y	6150	0	6170	225	0
1	YA	6150	0	6170	226	0
1	YB	6150	0	6170	247	0
1	Z	6150	0	6170	230	0
1	ZA	6150	0	6170	282	0
1	ZB	6150	0	6169	375	0
All	All	479700	0	481245	21752	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 23.

All (21752) 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:UB:757:ALA:CB	1:VB:751:LEU:HB3	1.24	1.68
1:ZB:735:ILE:CB	1:AC:726:ALA:CB	1.77	1.62
1:C:779:LEU:CD1	1:E:770:LEU:HA	1.10	1.57
1:ZB:735:ILE:CG2	1:AC:726:ALA:HB1	1.33	1.57
1:A:768:MET:CE	1:C:763:LYS:HB2	1.08	1.54
1:A:772:TYR:CD1	1:C:766:ARG:HB3	1.41	1.54
1:FB:654:LEU:HD13	1:GB:534:HIS:CD2	1.02	1.52
1:ZB:735:ILE:CB	1:AC:726:ALA:HB1	1.05	1.51
1:D:662:ILE:HD12	1:F:654:LEU:CG	1.32	1.51
1:UB:702:ALA:CB	1:VB:693:ILE:HG23	1.37	1.51
1:ZB:746:LEU:HD13	1:AC:737:GLY:CA	1.38	1.50
1:OB:203:ALA:CB	1:PB:192:THR:HG21	1.42	1.49
1:D:171:ASN:ND2	1:F:234:ASN:H	1.08	1.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:772:TYR:CE1	1:E:766:ARG:HB3	1.49	1.48
1:D:9:ARG:HE	1:F:24:ASN:CG	0.96	1.48
1:D:34:THR:HG22	1:F:23:SER:CB	1.43	1.47
1:FB:654:LEU:CD1	1:GB:534:HIS:CD2	1.94	1.47
1:UB:790:VAL:HG22	1:VB:788:ALA:CB	1.45	1.46
1:TB:779:LEU:CD2	1:UB:774:ARG:HH21	1.27	1.45
1:C:779:LEU:HD21	1:E:770:LEU:CG	1.46	1.45
1:C:794:LYS:CB	1:E:788:ALA:HB1	1.45	1.45
1:LB:724:ALA:CB	1:MB:715:ALA:HA	1.47	1.44
1:OB:32:PRO:HB2	1:PB:24:ASN:CB	1.48	1.44
1:L:96:PRO:HD3	1:N:85:HIS:CD2	1.51	1.44
1:C:779:LEU:CD2	1:E:770:LEU:HG	1.49	1.43
1:D:96:PRO:CG	1:F:85:HIS:HE1	1.28	1.43
1:C:794:LYS:HB2	1:E:788:ALA:CB	1.46	1.42
1:D:223:GLU:HG3	1:F:293:LYS:CB	1.46	1.42
1:D:688:LEU:HD12	1:F:679:ARG:NH1	1.21	1.42
1:D:13:TYR:HE2	1:F:82:ARG:CG	1.32	1.42
1:D:13:TYR:CE2	1:F:82:ARG:HG3	1.55	1.41
1:A:786:GLN:HB3	1:C:781:VAL:CG1	1.50	1.41
1:BB:706:LEU:CD2	1:CB:693:ILE:HG23	1.48	1.41
1:A:768:MET:CE	1:C:763:LYS:CB	1.97	1.41
1:OB:32:PRO:CB	1:PB:24:ASN:HB2	1.48	1.41
1:TB:783:LYS:HD2	1:UB:777:LEU:CD1	1.49	1.41
1:VB:775:ALA:CB	1:WB:770:LEU:HD12	1.46	1.41
1:UB:746:LEU:HD11	1:VB:737:GLY:CA	0.95	1.40
1:UB:746:LEU:CD1	1:VB:737:GLY:HA2	0.94	1.40
1:D:12:PRO:CG	1:F:80:GLN:HG3	1.51	1.40
1:TB:592:HIS:CG	1:UB:534:HIS:NE2	1.87	1.39
1:A:757:ALA:CB	1:C:748:ALA:C	1.90	1.39
1:D:34:THR:CG2	1:F:23:SER:HB3	1.49	1.39
1:ZB:757:ALA:HB1	1:AC:751:LEU:CB	1.53	1.39
1:LB:687:ARG:CZ	1:MB:679:ARG:HD2	1.51	1.39
1:C:783:LYS:HA	1:E:777:LEU:CG	1.53	1.39
1:D:96:PRO:HG3	1:F:85:HIS:CE1	1.56	1.38
1:D:9:ARG:HG2	1:F:24:ASN:N	1.36	1.38
1:D:9:ARG:HG3	1:F:23:SER:C	1.41	1.38
1:D:220:ILE:CG2	1:F:245:THR:O	1.70	1.38
1:D:9:ARG:CG	1:F:24:ASN:N	1.85	1.37
1:UB:702:ALA:HB2	1:VB:693:ILE:CG2	1.53	1.37
1:C:783:LYS:CA	1:E:777:LEU:HG	1.54	1.36
1:A:786:GLN:HB2	1:C:781:VAL:CG2	1.51	1.36

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:114:VAL:HG23	1:F:138:MET:SD	1.65	1.36
1:D:118:ASN:ND2	1:F:181:GLU:O	1.58	1.36
1:C:794:LYS:CG	1:E:788:ALA:HB1	1.54	1.36
1:TB:592:HIS:CG	1:UB:534:HIS:CD2	2.14	1.35
1:LB:687:ARG:NH1	1:MB:679:ARG:HD2	1.39	1.35
1:OB:465:ASN:ND2	1:PB:562:PHE:O	1.58	1.35
1:C:779:LEU:CD1	1:E:770:LEU:CA	2.03	1.34
1:D:114:VAL:HG21	1:F:140:GLY:CA	1.56	1.34
1:D:651:ARG:HG2	1:F:536:ARG:NH1	1.41	1.34
1:C:775:ALA:HB1	1:E:770:LEU:CD1	1.56	1.34
1:B:759:LEU:CD1	1:AC:768:MET:SD	2.16	1.33
1:UB:790:VAL:CG2	1:VB:788:ALA:HB2	1.56	1.33
1:ZB:735:ILE:CG1	1:AC:726:ALA:HB1	1.54	1.33
1:D:9:ARG:NE	1:F:24:ASN:CG	1.81	1.33
1:OB:34:THR:HG23	1:PB:21:GLN:O	1.21	1.33
1:UB:695:ASP:OD1	1:VB:686:GLY:CA	1.77	1.33
1:A:732:ALA:HA	1:C:726:ALA:CB	1.59	1.32
1:A:759:LEU:HD11	1:NB:768:MET:SD	1.70	1.31
1:TB:687:ARG:NH2	1:UB:679:ARG:HD2	1.43	1.31
1:UB:768:MET:CE	1:VB:766:ARG:HB2	1.60	1.31
1:OB:203:ALA:N	1:PB:192:THR:HB	1.41	1.31
1:ZB:742:LEU:CB	1:AC:734:ARG:HH21	1.43	1.31
1:A:779:LEU:HD13	1:C:773:ALA:CB	1.60	1.31
1:OB:203:ALA:HB2	1:PB:192:THR:CG2	1.60	1.31
1:ZB:735:ILE:HB	1:AC:726:ALA:CB	1.46	1.30
1:ZB:746:LEU:HD13	1:AC:737:GLY:N	1.45	1.30
1:A:731:GLU:CG	1:C:723:LYS:HD3	1.61	1.30
1:B:759:LEU:HD11	1:AC:768:MET:SD	1.70	1.30
1:A:757:ALA:CB	1:C:748:ALA:O	1.80	1.30
1:A:764:LYS:HB3	1:C:759:LEU:CD1	1.61	1.30
1:D:9:ARG:CG	1:F:23:SER:C	1.97	1.30
1:OB:362:PRO:CB	1:PB:355:ASP:HB3	1.59	1.30
1:A:713:SER:OG	1:C:703:ARG:HG2	1.21	1.30
1:TB:644:GLU:CA	1:UB:536:ARG:HH22	1.44	1.30
1:D:12:PRO:CG	1:F:81:VAL:O	1.79	1.28
1:OB:202:GLY:HA2	1:PB:192:THR:O	1.28	1.28
1:A:750:ALA:CA	1:C:744:ALA:HB2	1.63	1.28
1:OB:702:ALA:HB3	1:PB:693:ILE:CG2	1.62	1.28
1:UB:746:LEU:HB3	1:VB:740:SER:OG	1.15	1.27
1:ZB:746:LEU:CD1	1:AC:737:GLY:HA3	1.63	1.27
1:C:754:GLU:HG3	1:E:744:ALA:CB	1.64	1.27

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:779:LEU:HD11	1:E:770:LEU:CA	1.59	1.26
1:UB:709:LEU:CD1	1:VB:700:GLU:HB3	1.65	1.26
1:UB:764:LYS:HD2	1:VB:759:LEU:CD1	1.63	1.26
1:C:794:LYS:HD3	1:E:788:ALA:CB	1.65	1.26
1:D:150:THR:OG1	1:F:138:MET:HG2	1.25	1.26
1:UB:806:THR:HG22	1:VB:808:ARG:CZ	1.65	1.26
1:A:750:ALA:O	1:C:744:ALA:CB	1.80	1.26
1:UB:746:LEU:CB	1:VB:740:SER:OG	1.82	1.26
1:A:759:LEU:CD1	1:NB:768:MET:SD	2.24	1.25
1:D:9:ARG:HE	1:F:24:ASN:ND2	1.34	1.25
1:OB:713:SER:OG	1:PB:707:LEU:HD12	1.22	1.25
1:ZB:738:GLU:OE2	1:AC:730:ALA:HB2	1.22	1.25
1:A:768:MET:HE3	1:C:763:LYS:CB	1.60	1.25
1:D:32:PRO:CG	1:F:76:ASP:HB2	1.67	1.25
1:SB:655:GLN:CG	1:TB:649:ARG:HD3	1.67	1.25
1:TB:644:GLU:HA	1:UB:536:ARG:NH2	1.49	1.25
1:A:728:SER:O	1:C:722:ALA:HB3	1.34	1.24
1:ZB:746:LEU:CD1	1:AC:737:GLY:CA	2.12	1.24
1:TB:779:LEU:HD22	1:UB:774:ARG:NH2	1.49	1.24
1:ZB:742:LEU:CD2	1:AC:734:ARG:HA	1.66	1.24
1:LB:717:GLU:CB	1:MB:707:LEU:HB3	1.68	1.24
1:OB:32:PRO:CG	1:PB:24:ASN:HB2	1.66	1.24
1:UB:738:GLU:OE2	1:VB:730:ALA:HA	1.38	1.24
1:B:742:LEU:HD23	1:D:734:ARG:NE	1.52	1.24
1:D:49:ARG:NE	1:F:85:HIS:HB3	1.50	1.24
1:C:790:VAL:HG13	1:E:785:GLN:CA	1.69	1.23
1:ZB:706:LEU:CD2	1:AC:693:ILE:HD12	1.66	1.23
1:OB:363:LEU:N	1:PB:353:ALA:O	1.69	1.23
1:UB:764:LYS:CD	1:VB:759:LEU:CD1	2.17	1.23
1:UB:797:GLU:OE1	1:VB:796:LYS:HB2	1.37	1.23
1:UB:806:THR:CB	1:VB:808:ARG:HB3	1.69	1.23
1:A:761:ARG:CG	1:C:755:THR:OG1	1.85	1.23
1:B:753:ILE:CG2	1:D:744:ALA:HB1	1.68	1.23
1:D:9:ARG:NH1	1:F:21:GLN:HB2	1.52	1.23
1:L:813:ALA:HB1	1:N:811:ALA:O	1.13	1.23
1:TB:643:VAL:O	1:UB:536:ARG:NH2	1.70	1.23
1:UB:757:ALA:CB	1:VB:751:LEU:CB	2.15	1.23
1:D:662:ILE:CD1	1:F:654:LEU:HG	1.68	1.22
1:D:57:HIS:NE2	1:F:127:LEU:HD22	1.54	1.22
1:B:759:LEU:CD1	1:AC:768:MET:CE	2.16	1.22
1:D:640:VAL:O	1:F:577:SER:HB2	1.38	1.22

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:ZB:735:ILE:CG1	1:AC:726:ALA:CB	2.11	1.22
1:ZB:768:MET:SD	1:AC:762:VAL:HG21	1.78	1.22
1:A:790:VAL:HG11	1:C:784:ALA:CB	1.69	1.22
1:D:118:ASN:CG	1:F:181:GLU:HB3	1.56	1.22
1:UB:764:LYS:CD	1:VB:759:LEU:HD12	1.68	1.22
1:DB:706:LEU:CD2	1:EB:693:ILE:HG23	1.69	1.21
1:UB:735:ILE:CG2	1:VB:730:ALA:HB2	1.69	1.21
1:UB:806:THR:HB	1:VB:808:ARG:CB	1.68	1.21
1:D:383:ASP:HB3	1:F:397:LYS:CA	1.71	1.21
1:P:806:THR:CG2	1:R:804:PRO:HB3	1.70	1.21
1:TB:779:LEU:CD2	1:UB:774:ARG:NH2	2.01	1.21
1:UB:742:LEU:CD2	1:VB:737:GLY:HA3	1.70	1.21
1:ZB:706:LEU:HD21	1:AC:693:ILE:CD1	1.68	1.21
1:D:52:THR:HB	1:F:85:HIS:NE2	1.55	1.21
1:K:39:ASP:OD1	1:UB:38:GLN:HB3	1.38	1.21
1:UB:702:ALA:CB	1:VB:693:ILE:CG2	2.10	1.21
1:LB:717:GLU:HB2	1:MB:707:LEU:CB	1.71	1.21
1:A:724:ALA:O	1:C:718:SER:OG	1.59	1.20
1:MB:757:ALA:CB	1:NB:748:ALA:HA	1.70	1.20
1:D:655:GLN:NE2	1:F:647:ASP:OD2	1.75	1.20
1:TB:592:HIS:CD2	1:UB:534:HIS:CE1	2.28	1.20
1:A:757:ALA:HB1	1:C:748:ALA:O	1.38	1.20
1:G:171:ASN:HD21	1:I:245:THR:CG2	1.55	1.20
1:MB:753:ILE:CG2	1:NB:744:ALA:HB1	1.70	1.20
1:UB:695:ASP:OD1	1:VB:686:GLY:HA2	1.05	1.20
1:OB:32:PRO:CB	1:PB:24:ASN:CB	2.12	1.20
1:VB:757:ALA:HB1	1:WB:752:ALA:HB2	1.20	1.20
1:B:665:THR:HG21	1:D:589:ASP:HB2	1.22	1.19
1:A:757:ALA:HB3	1:C:748:ALA:CA	1.72	1.19
1:LB:706:LEU:CD2	1:MB:697:SER:OG	1.91	1.19
1:VB:739:GLY:CA	1:WB:734:ARG:NH2	2.04	1.19
1:ZB:742:LEU:HD22	1:AC:734:ARG:NE	1.55	1.19
1:B:486:LEU:HB3	1:D:476:LYS:NZ	1.57	1.19
1:A:720:GLY:CA	1:C:711:ALA:HB1	1.71	1.18
1:DB:717:GLU:CG	1:EB:707:LEU:HD13	1.73	1.18
1:UB:753:ILE:HD13	1:VB:748:ALA:CB	1.72	1.18
1:A:743:GLN:CG	1:C:733:ALA:HB1	1.70	1.18
1:A:764:LYS:CB	1:C:759:LEU:HD13	1.72	1.18
1:ZB:746:LEU:CD2	1:AC:737:GLY:HA3	1.74	1.18
1:L:809:ASP:CB	1:N:808:ARG:HB2	1.73	1.18
1:D:118:ASN:ND2	1:F:181:GLU:HB3	1.57	1.18

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:651:ARG:CG	1:F:536:ARG:HH12	1.57	1.18
1:OB:305:GLU:CD	1:PB:298:GLN:HE21	1.47	1.18
1:B:759:LEU:HD12	1:AC:768:MET:CE	1.73	1.17
1:WB:385:ASN:ND2	1:XB:473:TYR:O	1.77	1.17
1:ZB:735:ILE:HG13	1:AC:726:ALA:CB	1.73	1.17
1:A:732:ALA:CA	1:C:726:ALA:HB2	1.74	1.17
1:D:220:ILE:HG22	1:F:245:THR:O	1.03	1.17
1:P:806:THR:HG22	1:R:804:PRO:CB	1.73	1.17
1:LB:710:GLU:HG3	1:MB:700:GLU:OE1	1.43	1.17
1:LB:728:SER:CA	1:MB:719:THR:HA	1.73	1.17
1:OB:278:PRO:HG3	1:PB:299:LYS:HG2	1.21	1.17
1:D:171:ASN:ND2	1:F:234:ASN:N	1.90	1.17
1:TB:592:HIS:CD2	1:UB:534:HIS:CD2	2.32	1.17
1:ZB:658:VAL:HG22	1:AC:534:HIS:CB	1.73	1.17
1:D:754:GLU:HG2	1:F:744:ALA:HB1	1.27	1.17
1:OB:362:PRO:HB2	1:PB:355:ASP:HB3	1.21	1.17
1:ZB:731:GLU:HB3	1:AC:722:ALA:CB	1.75	1.17
1:A:739:GLY:CA	1:C:734:ARG:NH1	2.08	1.16
1:A:743:GLN:HE21	1:C:733:ALA:CB	1.56	1.16
1:C:775:ALA:HB1	1:E:770:LEU:HD12	1.20	1.16
1:D:96:PRO:CG	1:F:85:HIS:CE1	2.20	1.16
1:LB:724:ALA:HB1	1:MB:715:ALA:HA	1.18	1.16
1:A:794:LYS:HG3	1:C:791:GLU:OE2	1.41	1.16
1:D:9:ARG:HG2	1:F:24:ASN:CB	1.76	1.16
1:D:383:ASP:CB	1:F:397:LYS:HA	1.74	1.16
1:B:706:LEU:HD21	1:D:693:ILE:HG23	1.20	1.16
1:TB:592:HIS:CE1	1:UB:534:HIS:CD2	2.34	1.16
1:A:750:ALA:HA	1:C:744:ALA:CB	1.74	1.16
1:A:750:ALA:C	1:C:744:ALA:HB2	1.67	1.16
1:D:167:VAL:HG13	1:F:191:VAL:CG2	1.76	1.15
1:BB:691:GLN:OE1	1:CB:679:ARG:NE	1.78	1.15
1:OB:384:GLN:HB2	1:PB:474:ARG:HG3	1.16	1.15
1:FB:279:ARG:NH2	1:GB:369:ALA:O	1.79	1.15
1:C:757:ALA:HB3	1:E:748:ALA:HB1	1.18	1.15
1:DB:768:MET:SD	1:EB:759:LEU:CD1	2.35	1.15
1:LB:716:VAL:HG11	1:MB:708:GLU:CG	1.75	1.15
1:A:720:GLY:HA3	1:C:711:ALA:CB	1.76	1.15
1:D:223:GLU:CG	1:F:293:LYS:HB3	1.77	1.15
1:OB:464:HIS:NE2	1:PB:496:THR:OG1	1.78	1.15
1:IA:717:GLU:HG3	1:KA:707:LEU:HD13	1.28	1.15
1:A:743:GLN:NE2	1:C:733:ALA:CB	2.10	1.14

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:279:ARG:NH2	1:D:338:GLN:OE1	1.81	1.14
1:D:9:ARG:HG2	1:F:24:ASN:CA	1.74	1.14
1:A:748:ALA:HB1	1:NB:757:ALA:HB3	1.16	1.14
1:HB:706:LEU:HD21	1:IB:693:ILE:HD12	1.25	1.14
1:TB:592:HIS:CD2	1:UB:534:HIS:CG	2.36	1.14
1:C:790:VAL:HG22	1:E:785:GLN:HB2	1.17	1.14
1:P:465:ASN:ND2	1:R:563:SER:O	1.79	1.14
1:FB:258:ALA:HB2	1:GB:245:THR:OG1	1.44	1.14
1:FB:640:VAL:O	1:GB:577:SER:HB2	1.45	1.14
1:LB:592:HIS:O	1:MB:584:ALA:HB1	1.45	1.14
1:A:779:LEU:CD1	1:C:773:ALA:HB3	1.78	1.13
1:OB:363:LEU:CA	1:PB:353:ALA:O	1.96	1.13
1:ZB:768:MET:CE	1:AC:762:VAL:HB	1.76	1.13
1:D:223:GLU:HG3	1:F:293:LYS:CG	1.79	1.13
1:ZB:742:LEU:HB2	1:AC:734:ARG:NH2	1.63	1.13
1:C:761:ARG:HB2	1:E:752:ALA:HA	1.18	1.13
1:D:640:VAL:O	1:F:577:SER:CB	1.96	1.12
1:D:688:LEU:CD1	1:F:679:ARG:HH12	1.60	1.13
1:I:34:THR:HG21	1:K:22:ASN:O	1.49	1.12
1:IA:673:ALA:CB	1:KA:664:ILE:HD12	1.79	1.12
1:TB:592:HIS:ND1	1:UB:534:HIS:CD2	2.16	1.13
1:ZB:797:GLU:OE1	1:AC:792:ALA:HB1	1.49	1.13
1:LB:754:GLU:HG3	1:MB:744:ALA:HB1	1.29	1.12
1:B:658:VAL:HG13	1:D:533:ASP:O	1.48	1.12
1:D:484:PRO:HB2	1:F:471:TYR:CD2	1.83	1.12
1:D:662:ILE:HD12	1:F:654:LEU:CD1	1.80	1.12
1:L:34:THR:HG21	1:N:21:GLN:O	1.49	1.12
1:L:95:ASP:HA	1:N:85:HIS:NE2	1.61	1.12
1:ZB:735:ILE:HG21	1:AC:726:ALA:C	1.69	1.12
1:A:731:GLU:HG3	1:C:723:LYS:HD3	1.27	1.12
1:D:12:PRO:HG3	1:F:80:GLN:CG	1.79	1.12
1:MB:757:ALA:HB2	1:NB:748:ALA:HB1	1.29	1.12
1:A:749:GLN:HB2	1:C:741:VAL:HG13	1.14	1.12
1:G:171:ASN:ND2	1:I:245:THR:HG21	1.65	1.12
1:UB:709:LEU:HD13	1:VB:700:GLU:HB3	1.30	1.12
1:VB:775:ALA:HB1	1:WB:770:LEU:CD1	1.80	1.12
1:A:757:ALA:HB3	1:C:748:ALA:C	1.59	1.12
1:A:706:LEU:HD11	1:C:696:GLN:HB3	1.16	1.11
1:A:775:ALA:CB	1:C:770:LEU:HB2	1.78	1.11
1:B:785:GLN:NE2	1:AC:793:LYS:HZ1	1.47	1.11
1:TB:592:HIS:NE2	1:UB:534:HIS:CG	2.18	1.11

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:UB:702:ALA:HB3	1:VB:693:ILE:CD1	1.80	1.11
1:ZB:742:LEU:CB	1:AC:734:ARG:NH2	2.13	1.11
1:ZB:742:LEU:HD21	1:AC:734:ARG:HA	1.21	1.11
1:D:655:GLN:NE2	1:F:647:ASP:CG	2.02	1.11
1:IA:55:PRO:HD3	1:KA:86:ALA:C	1.68	1.11
1:FB:662:ILE:HD12	1:GB:654:LEU:HD21	1.32	1.11
1:LB:662:ILE:HB	1:MB:654:LEU:HD21	1.24	1.11
1:A:748:ALA:HB1	1:NB:757:ALA:CB	1.80	1.11
1:A:750:ALA:HA	1:C:744:ALA:HB2	1.16	1.11
1:A:775:ALA:HB1	1:C:770:LEU:CB	1.80	1.11
1:D:12:PRO:HG2	1:F:81:VAL:O	0.95	1.11
1:D:13:TYR:CE2	1:F:82:ARG:CG	2.20	1.11
1:ZB:735:ILE:HG21	1:AC:726:ALA:CB	1.74	1.11
1:N:34:THR:HG21	1:P:21:GLN:O	1.49	1.11
1:VB:739:GLY:HA2	1:WB:734:ARG:NH2	1.62	1.11
1:D:52:THR:CG2	1:F:86:ALA:HB3	1.81	1.11
1:DB:728:SER:HB3	1:EB:718:SER:OG	1.51	1.11
1:HA:702:ALA:HB3	1:JA:693:ILE:HG21	1.26	1.10
1:A:750:ALA:O	1:C:744:ALA:HB1	1.46	1.10
1:A:790:VAL:HG22	1:C:785:GLN:CA	1.80	1.10
1:LB:640:VAL:HG13	1:MB:580:ARG:HH21	1.04	1.10
1:UB:702:ALA:HB1	1:VB:693:ILE:HG23	1.26	1.10
1:C:775:ALA:CB	1:E:770:LEU:HD12	1.80	1.10
1:SA:706:LEU:HD21	1:UA:693:ILE:HG23	1.26	1.10
1:TB:669:GLN:OE1	1:UB:664:ILE:HG21	1.50	1.10
1:UB:806:THR:N	1:VB:808:ARG:NH1	1.98	1.10
1:A:735:ILE:HG21	1:C:727:GLU:HG2	1.31	1.10
1:C:801:ALA:HB1	1:E:796:LYS:CD	1.80	1.10
1:D:33:LYS:HA	1:F:78:THR:HB	1.30	1.10
1:L:806:THR:HG22	1:N:804:PRO:HB3	1.27	1.10
1:MB:757:ALA:HB2	1:NB:748:ALA:CB	1.81	1.10
1:OB:32:PRO:CG	1:PB:24:ASN:CB	2.28	1.10
1:C:768:MET:SD	1:E:759:LEU:CD1	2.39	1.09
1:E:775:ALA:HB1	1:G:770:LEU:HD12	1.17	1.09
1:DB:768:MET:SD	1:EB:759:LEU:HD11	1.92	1.09
1:UB:746:LEU:HD11	1:VB:737:GLY:C	1.70	1.09
1:UB:746:LEU:HD12	1:VB:737:GLY:HA2	1.24	1.09
1:A:708:GLU:HG2	1:NB:716:VAL:HG21	1.33	1.09
1:C:717:GLU:HB2	1:E:707:LEU:HB3	1.27	1.09
1:C:794:LYS:HD3	1:E:788:ALA:HB2	1.17	1.09
1:BB:706:LEU:HD21	1:CB:693:ILE:HG23	1.26	1.09

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:LB:595:SER:HB3	1:MB:580:ARG:NH1	1.67	1.09
1:LB:728:SER:HA	1:MB:719:THR:HA	1.16	1.09
1:OB:307:SER:CB	1:PB:296:LEU:HB2	1.81	1.09
1:A:728:SER:C	1:C:722:ALA:HB3	1.71	1.09
1:OB:305:GLU:OE1	1:PB:298:GLN:NE2	1.84	1.09
1:OB:383:ASP:HB3	1:PB:398:VAL:CG2	1.81	1.09
1:DB:757:ALA:CB	1:EB:748:ALA:HB1	1.81	1.09
1:LB:522:PHE:HB3	1:MB:573:LYS:HE2	1.27	1.09
1:OB:680:LEU:HB3	1:PB:675:HIS:CE1	1.87	1.09
1:A:794:LYS:HB2	1:C:788:ALA:CB	1.82	1.09
1:D:49:ARG:HE	1:F:85:HIS:CB	1.66	1.09
1:C:801:ALA:CB	1:E:796:LYS:HD2	1.83	1.08
1:D:32:PRO:HD2	1:F:76:ASP:HB3	1.33	1.08
1:L:813:ALA:CB	1:N:811:ALA:O	2.00	1.08
1:DB:717:GLU:HG3	1:EB:707:LEU:HD13	1.17	1.08
1:LB:687:ARG:NH1	1:MB:679:ARG:CD	2.16	1.08
1:LB:716:VAL:HG11	1:MB:708:GLU:HG3	1.34	1.08
1:UB:753:ILE:HD13	1:VB:748:ALA:HB2	1.29	1.08
1:A:728:SER:O	1:C:722:ALA:CB	2.01	1.08
1:A:746:LEU:O	1:C:741:VAL:HG22	1.50	1.08
1:OB:169:LYS:NZ	1:PB:195:GLU:H	1.50	1.08
1:OB:798:MET:SD	1:PB:795:PHE:CE2	2.45	1.08
1:A:743:GLN:NE2	1:C:733:ALA:HB1	1.67	1.08
1:D:57:HIS:CE1	1:F:127:LEU:HD13	1.89	1.08
1:OB:277:GLY:HA2	1:PB:297:GLY:O	1.53	1.08
1:ZB:757:ALA:CB	1:AC:751:LEU:HB2	1.81	1.08
1:C:779:LEU:HD13	1:E:770:LEU:CA	1.77	1.08
1:C:790:VAL:HG13	1:E:785:GLN:HA	1.31	1.07
1:C:813:ALA:CB	1:E:811:ALA:HB1	1.81	1.07
1:D:32:PRO:CD	1:F:76:ASP:CB	2.32	1.07
1:ZB:735:ILE:HB	1:AC:726:ALA:HB2	1.30	1.07
1:A:753:ILE:O	1:C:748:ALA:HB2	1.55	1.07
1:A:761:ARG:HG2	1:C:755:THR:OG1	0.92	1.07
1:C:790:VAL:HG21	1:E:781:VAL:O	1.52	1.07
1:D:52:THR:O	1:F:86:ALA:HB1	1.53	1.07
1:IA:595:SER:CB	1:KA:580:ARG:HH12	1.66	1.07
1:UB:731:GLU:HG3	1:VB:726:ALA:HB2	1.24	1.07
1:A:707:LEU:HB3	1:NB:717:GLU:HB2	1.35	1.07
1:A:779:LEU:HD13	1:C:773:ALA:HB3	1.11	1.07
1:C:794:LYS:CD	1:E:788:ALA:CB	2.32	1.07
1:OB:687:ARG:NH1	1:PB:679:ARG:NH1	2.03	1.07

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:UB:731:GLU:HG3	1:VB:726:ALA:CB	1.84	1.07
1:B:279:ARG:CZ	1:D:338:GLN:HB2	1.85	1.07
1:C:728:SER:CA	1:E:719:THR:HA	1.84	1.07
1:D:9:ARG:NE	1:F:24:ASN:ND2	1.93	1.07
1:OB:34:THR:CG2	1:PB:21:GLN:O	2.02	1.07
1:VB:768:MET:CE	1:WB:763:LYS:HG3	1.83	1.07
1:A:732:ALA:HA	1:C:726:ALA:HB2	1.07	1.07
1:A:786:GLN:HB2	1:C:781:VAL:HG21	1.37	1.07
1:A:786:GLN:CB	1:C:781:VAL:CG2	2.32	1.07
1:A:794:LYS:HB2	1:C:788:ALA:HB1	1.07	1.07
1:B:693:ILE:CG2	1:AC:706:LEU:HD21	1.85	1.07
1:A:772:TYR:CD1	1:C:766:ARG:CB	2.37	1.06
1:A:786:GLN:HB2	1:C:781:VAL:HG22	1.15	1.06
1:D:52:THR:N	1:F:85:HIS:HD2	1.52	1.06
1:D:171:ASN:HD21	1:F:234:ASN:N	1.50	1.06
1:QA:171:ASN:HD21	1:SA:245:THR:HG21	1.16	1.06
1:SB:655:GLN:HG2	1:TB:649:ARG:HD3	1.26	1.06
1:ZB:706:LEU:HD21	1:AC:693:ILE:HD12	1.24	1.06
1:D:52:THR:HG23	1:F:86:ALA:HB3	1.36	1.06
1:BB:706:LEU:HD23	1:CB:693:ILE:HG23	1.27	1.06
1:MB:757:ALA:CB	1:NB:748:ALA:CA	2.34	1.06
1:OB:201:VAL:HG13	1:PB:191:VAL:HG21	1.29	1.06
1:ZB:742:LEU:HD22	1:AC:734:ARG:HE	1.00	1.06
1:B:279:ARG:NE	1:D:338:GLN:HB2	1.69	1.06
1:FB:654:LEU:HD22	1:GB:534:HIS:CE1	1.89	1.06
1:LB:743:GLN:HE21	1:MB:734:ARG:NH2	1.54	1.06
1:MB:732:ALA:HB2	1:NB:722:ALA:HB1	1.32	1.06
1:A:706:LEU:HD11	1:C:696:GLN:CB	1.85	1.05
1:D:32:PRO:CD	1:F:76:ASP:HB3	1.84	1.05
1:D:114:VAL:HG21	1:F:140:GLY:HA3	1.09	1.05
1:LB:640:VAL:HG13	1:MB:580:ARG:NH2	1.69	1.05
1:UB:793:LYS:NZ	1:VB:792:ALA:CB	2.19	1.05
1:A:719:THR:HA	1:NB:728:SER:HA	1.08	1.05
1:A:764:LYS:HB3	1:C:759:LEU:HD13	1.08	1.05
1:B:785:GLN:HE22	1:AC:793:LYS:NZ	1.55	1.05
1:E:728:SER:HA	1:G:719:THR:HA	1.37	1.05
1:F:171:ASN:HD21	1:H:245:THR:HG21	1.20	1.05
1:OB:32:PRO:HB2	1:PB:24:ASN:ND2	1.70	1.05
1:OB:639:ASP:HB3	1:PB:577:SER:HB3	1.36	1.05
1:OB:702:ALA:HB3	1:PB:693:ILE:HG21	1.37	1.05
1:C:772:TYR:CE1	1:E:766:ARG:CB	2.40	1.05

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:592:HIS:O	1:F:584:ALA:CB	2.05	1.05
1:MB:757:ALA:HB3	1:NB:748:ALA:HA	1.31	1.05
1:OB:484:PRO:O	1:PB:473:TYR:HE1	1.37	1.05
1:UB:702:ALA:HB2	1:VB:693:ILE:HG21	1.39	1.05
1:ZB:731:GLU:HB3	1:AC:722:ALA:HB3	1.11	1.05
1:A:768:MET:HE1	1:C:763:LYS:HB2	1.36	1.05
1:P:806:THR:HG22	1:R:804:PRO:HB3	1.20	1.05
1:ZB:749:GLN:CD	1:AC:741:VAL:HG22	1.76	1.05
1:OB:383:ASP:HB3	1:PB:398:VAL:HG23	1.06	1.05
1:UB:735:ILE:HG23	1:VB:730:ALA:HB2	1.35	1.05
1:A:776:GLN:OE1	1:C:769:GLU:OE1	1.75	1.04
1:C:775:ALA:CB	1:E:770:LEU:CD1	2.34	1.04
1:C:779:LEU:HD11	1:E:770:LEU:CB	1.85	1.04
1:ZB:738:GLU:OE2	1:AC:730:ALA:CB	2.03	1.04
1:B:753:ILE:HG23	1:D:744:ALA:HB1	1.35	1.04
1:B:797:GLU:OE1	1:D:792:ALA:CB	2.05	1.04
1:D:12:PRO:CD	1:F:80:GLN:HG3	1.87	1.04
1:D:362:PRO:HB2	1:F:352:GLN:HG3	1.09	1.04
1:LB:724:ALA:CB	1:MB:715:ALA:CA	2.34	1.04
1:SB:717:GLU:HB2	1:TB:707:LEU:HB3	1.38	1.04
1:ZB:742:LEU:HD23	1:AC:734:ARG:N	1.71	1.04
1:A:765:VAL:HG11	1:C:755:THR:HB	1.35	1.04
1:C:754:GLU:HG2	1:E:744:ALA:HA	1.39	1.04
1:LB:595:SER:CB	1:MB:580:ARG:HH12	1.69	1.04
1:OB:93:ALA:HB1	1:PB:86:ALA:HB1	1.04	1.04
1:VB:750:ALA:HA	1:WB:744:ALA:CB	1.88	1.04
1:G:802:LEU:HD23	1:I:799:THR:HG21	1.39	1.04
1:BB:731:GLU:HG2	1:CB:719:THR:OG1	1.57	1.04
1:A:765:VAL:CG1	1:C:755:THR:HB	1.88	1.04
1:D:52:THR:CB	1:F:85:HIS:HE2	1.71	1.04
1:D:56:ARG:HB3	1:F:128:ASP:HB3	1.37	1.04
1:LB:713:SER:OG	1:MB:704:LYS:HA	1.58	1.04
1:A:746:LEU:HD13	1:C:738:GLU:N	1.73	1.03
1:D:9:ARG:HG3	1:F:23:SER:CA	1.87	1.03
1:D:32:PRO:HG3	1:F:76:ASP:HB2	1.34	1.03
1:D:56:ARG:HB2	1:F:128:ASP:O	1.56	1.03
1:D:329:GLN:HE21	1:F:394:LYS:HE2	1.17	1.03
1:D:362:PRO:CB	1:F:352:GLN:HG3	1.88	1.03
1:H:171:ASN:HD21	1:J:245:THR:HG21	1.19	1.03
1:LB:765:VAL:HG12	1:MB:759:LEU:HD13	1.35	1.03
1:TB:592:HIS:CB	1:UB:534:HIS:NE2	2.20	1.03

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:TB:644:GLU:HA	1:UB:536:ARG:HH22	0.95	1.03
1:VB:775:ALA:CB	1:WB:770:LEU:CD1	2.35	1.03
1:ZB:742:LEU:HB2	1:AC:734:ARG:HH21	1.12	1.03
1:A:768:MET:CE	1:C:759:LEU:O	2.05	1.03
1:AB:465:ASN:HD21	1:OB:563:SER:HA	1.24	1.03
1:FB:654:LEU:HD13	1:GB:534:HIS:CG	1.94	1.03
1:OB:32:PRO:HB2	1:PB:24:ASN:CG	1.78	1.03
1:A:749:GLN:CB	1:C:741:VAL:HG13	1.89	1.03
1:C:768:MET:SD	1:E:759:LEU:HD11	1.96	1.03
1:D:658:VAL:HG22	1:F:535:ALA:HA	1.36	1.03
1:ZB:768:MET:HE3	1:AC:762:VAL:CG2	1.88	1.03
1:A:771:ILE:HD11	1:C:763:LYS:CG	1.88	1.03
1:D:52:THR:O	1:F:86:ALA:CB	2.06	1.03
1:D:52:THR:N	1:F:86:ALA:HB2	1.72	1.03
1:B:797:GLU:OE1	1:D:792:ALA:HB1	1.58	1.03
1:D:464:HIS:CE1	1:F:471:TYR:HB2	1.93	1.03
1:D:688:LEU:CD1	1:F:679:ARG:NH1	2.17	1.03
1:OB:640:VAL:HG13	1:PB:580:ARG:NH2	1.74	1.03
1:VB:687:ARG:HH12	1:WB:679:ARG:NH1	1.56	1.03
1:ZB:757:ALA:HB1	1:AC:751:LEU:HB2	1.03	1.03
1:A:742:LEU:HB3	1:C:734:ARG:HE	1.23	1.02
1:A:786:GLN:HB3	1:C:781:VAL:HG13	1.09	1.02
1:C:794:LYS:CB	1:E:788:ALA:CB	2.18	1.02
1:C:794:LYS:CG	1:E:788:ALA:CB	2.37	1.02
1:ZA:720:GLY:HA3	1:BB:711:ALA:HB1	1.39	1.02
1:EB:720:GLY:HA3	1:FB:711:ALA:HB1	1.41	1.02
1:TB:644:GLU:CA	1:UB:536:ARG:NH2	2.11	1.02
1:UB:702:ALA:HB3	1:VB:693:ILE:HD12	1.03	1.02
1:VB:687:ARG:NH1	1:WB:679:ARG:NH1	2.07	1.02
1:B:785:GLN:NE2	1:AC:793:LYS:NZ	2.06	1.02
1:C:754:GLU:HG3	1:E:744:ALA:HB1	1.03	1.02
1:BB:717:GLU:HB2	1:CB:707:LEU:HD13	1.40	1.02
1:OB:32:PRO:HG2	1:PB:24:ASN:HB2	1.42	1.02
1:OB:328:GLU:HG2	1:PB:394:LYS:HE2	1.37	1.02
1:OB:655:GLN:HG2	1:PB:649:ARG:HD3	1.39	1.02
1:ZB:746:LEU:HD22	1:AC:737:GLY:CA	1.89	1.02
1:B:657:SER:OG	1:D:534:HIS:CE1	2.12	1.02
1:E:768:MET:SD	1:G:759:LEU:CD1	2.48	1.02
1:K:39:ASP:OD1	1:UB:38:GLN:CB	2.06	1.02
1:AB:640:VAL:HG13	1:OB:580:ARG:NH2	1.73	1.02
1:OB:362:PRO:CB	1:PB:355:ASP:CB	2.38	1.02

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:ZB:768:MET:SD	1:AC:762:VAL:CG2	2.47	1.02
1:C:775:ALA:HB1	1:E:770:LEU:HD13	1.36	1.02
1:LB:522:PHE:CB	1:MB:573:LYS:HE2	1.88	1.02
1:OB:746:LEU:HD22	1:PB:741:VAL:CG2	1.89	1.02
1:VB:739:GLY:HA2	1:WB:734:ARG:CZ	1.88	1.02
1:ZB:749:GLN:OE1	1:AC:741:VAL:HG22	1.59	1.02
1:A:757:ALA:HB1	1:C:752:ALA:HB2	1.41	1.01
1:D:49:ARG:HE	1:F:85:HIS:HB3	0.88	1.01
1:UB:757:ALA:HB3	1:VB:751:LEU:CB	1.86	1.01
1:A:728:SER:C	1:C:722:ALA:CB	2.29	1.01
1:D:592:HIS:CD2	1:F:584:ALA:HB1	1.96	1.01
1:HA:702:ALA:HB3	1:JA:693:ILE:CG2	1.90	1.01
1:ZB:735:ILE:CG2	1:AC:726:ALA:CB	2.10	1.01
1:A:739:GLY:CA	1:C:734:ARG:HH12	1.70	1.01
1:A:744:ALA:HB1	1:NB:754:GLU:HG3	1.40	1.01
1:A:786:GLN:CB	1:C:781:VAL:CG1	2.39	1.01
1:D:52:THR:N	1:F:85:HIS:CD2	2.27	1.01
1:D:484:PRO:O	1:F:471:TYR:CE1	2.13	1.01
1:LB:595:SER:HB3	1:MB:580:ARG:HH12	0.87	1.01
1:B:759:LEU:HD11	1:AC:768:MET:CE	1.85	1.01
1:L:794:LYS:HD3	1:N:791:GLU:OE2	1.60	1.01
1:MB:753:ILE:HG22	1:NB:744:ALA:HB1	1.42	1.01
1:OB:257:GLU:CD	1:PB:244:ARG:HB3	1.81	1.01
1:TB:655:GLN:NE2	1:UB:649:ARG:HB3	1.76	1.01
1:TB:783:LYS:CD	1:UB:777:LEU:HD11	1.90	1.01
1:ZB:658:VAL:HG22	1:AC:534:HIS:CG	1.94	1.01
1:D:662:ILE:CD1	1:F:654:LEU:CG	2.28	1.01
1:ZB:702:ALA:HB1	1:AC:693:ILE:HG21	1.03	1.01
1:A:790:VAL:HG11	1:C:784:ALA:HB1	1.39	1.00
1:B:279:ARG:NH2	1:D:338:GLN:HB2	1.75	1.00
1:UB:702:ALA:CB	1:VB:693:ILE:HD12	1.90	1.00
1:A:731:GLU:HG3	1:C:723:LYS:CD	1.90	1.00
1:A:750:ALA:CA	1:C:744:ALA:CB	2.37	1.00
1:D:12:PRO:CD	1:F:80:GLN:CG	2.38	1.00
1:E:768:MET:SD	1:G:759:LEU:HD11	2.00	1.00
1:IA:148:PRO:HB2	1:KA:138:MET:HE2	1.44	1.00
1:LB:724:ALA:HB2	1:MB:715:ALA:HA	1.41	1.00
1:TB:779:LEU:HD22	1:UB:774:ARG:HH21	0.86	1.00
1:UB:702:ALA:HB2	1:VB:693:ILE:HG23	1.11	1.00
1:A:743:GLN:CD	1:C:733:ALA:HB1	1.82	1.00
1:A:786:GLN:CB	1:C:781:VAL:HG22	1.91	1.00

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:405:THR:HB	1:F:395:THR:HA	1.44	1.00
1:OB:203:ALA:H	1:PB:192:THR:CB	1.74	1.00
1:OB:384:GLN:HB2	1:PB:474:ARG:CG	1.92	1.00
1:OB:595:SER:HB3	1:PB:580:ARG:HH12	1.26	1.00
1:UB:793:LYS:HZ2	1:VB:792:ALA:HB1	1.20	1.00
1:VB:768:MET:CE	1:WB:763:LYS:HB2	1.91	1.00
1:ZB:768:MET:HE3	1:AC:762:VAL:CB	1.92	1.00
1:D:51:VAL:HG22	1:F:86:ALA:HB2	1.43	1.00
1:L:806:THR:HG22	1:N:804:PRO:CB	1.90	1.00
1:TB:783:LYS:HD2	1:UB:777:LEU:HD11	1.05	1.00
1:UB:790:VAL:HG22	1:VB:788:ALA:HB2	1.01	1.00
1:UB:764:LYS:HD3	1:VB:759:LEU:CD1	1.92	1.00
1:VB:728:SER:HB2	1:WB:722:ALA:HB2	1.44	1.00
1:VB:768:MET:HE1	1:WB:763:LYS:HG3	1.43	1.00
1:E:757:ALA:HB3	1:G:748:ALA:HB1	1.43	1.00
1:LB:716:VAL:CG2	1:MB:708:GLU:HG2	1.92	1.00
1:B:329:GLN:NE2	1:D:394:LYS:HG3	1.76	1.00
1:D:167:VAL:CG1	1:F:191:VAL:HG23	1.91	1.00
1:ZB:768:MET:CE	1:AC:762:VAL:CG2	2.40	1.00
1:FB:662:ILE:HD12	1:GB:654:LEU:CD2	1.92	0.99
1:MB:753:ILE:HG23	1:NB:744:ALA:HB1	1.44	0.99
1:OB:383:ASP:CB	1:PB:398:VAL:HG23	1.92	0.99
1:UB:709:LEU:CD1	1:VB:700:GLU:CB	2.40	0.99
1:B:742:LEU:HD23	1:D:734:ARG:HE	0.86	0.99
1:D:724:ALA:CB	1:F:715:ALA:HB2	1.92	0.99
1:LB:662:ILE:HB	1:MB:654:LEU:CD2	1.91	0.99
1:D:150:THR:HG1	1:F:138:MET:HG2	1.19	0.99
1:D:654:LEU:HD22	1:F:534:HIS:CG	1.95	0.99
1:OB:405:THR:N	1:PB:396:GLY:HA3	1.77	0.99
1:UB:709:LEU:HD12	1:VB:700:GLU:CB	1.91	0.99
1:DB:706:LEU:HD21	1:EB:693:ILE:HG23	1.43	0.99
1:OB:203:ALA:H	1:PB:192:THR:HB	0.88	0.99
1:OB:713:SER:OG	1:PB:707:LEU:CD1	2.09	0.99
1:TB:787:LEU:HD21	1:UB:781:VAL:HG22	1.44	0.99
1:ZB:731:GLU:CB	1:AC:722:ALA:HB3	1.91	0.99
1:D:118:ASN:ND2	1:F:181:GLU:C	2.14	0.99
1:UB:768:MET:CE	1:VB:766:ARG:CB	2.39	0.99
1:D:118:ASN:ND2	1:F:181:GLU:CB	2.26	0.99
1:OB:522:PHE:HB3	1:PB:573:LYS:HE2	1.39	0.99
1:UB:757:ALA:HB3	1:VB:751:LEU:HB3	1.00	0.99
1:B:759:LEU:CD1	1:AC:768:MET:HE3	1.93	0.99

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:ZB:746:LEU:CG	1:AC:737:GLY:HA3	1.90	0.99
1:D:223:GLU:CG	1:F:293:LYS:CB	2.39	0.99
1:UB:757:ALA:HB2	1:VB:751:LEU:HB3	1.40	0.99
1:UB:806:THR:CG2	1:VB:808:ARG:CZ	2.41	0.99
1:UB:806:THR:HA	1:VB:808:ARG:HB2	1.40	0.99
1:ZB:702:ALA:CB	1:AC:693:ILE:HG21	1.91	0.99
1:B:461:ARG:NH1	1:D:473:TYR:CD2	2.31	0.99
1:B:759:LEU:HD12	1:AC:768:MET:HE1	1.45	0.98
1:D:484:PRO:O	1:F:471:TYR:CZ	2.15	0.98
1:F:171:ASN:ND2	1:H:245:THR:HG21	1.77	0.98
1:DB:768:MET:SD	1:EB:759:LEU:HD12	2.01	0.98
1:UB:793:LYS:HZ2	1:VB:792:ALA:CB	1.75	0.98
1:VB:728:SER:HB2	1:WB:722:ALA:CB	1.92	0.98
1:VB:768:MET:CE	1:WB:763:LYS:CG	2.41	0.98
1:ZB:658:VAL:HG22	1:AC:534:HIS:HB2	1.44	0.98
1:C:761:ARG:HG3	1:E:751:LEU:O	1.62	0.98
1:D:592:HIS:NE2	1:F:530:GLU:O	1.96	0.98
1:VB:775:ALA:HB1	1:WB:770:LEU:HD12	1.02	0.98
1:G:171:ASN:HD21	1:I:245:THR:HG21	0.83	0.98
1:A:770:LEU:HD12	1:NB:775:ALA:HB1	1.44	0.98
1:A:793:LYS:HZ2	1:C:789:ASN:ND2	1.62	0.98
1:A:794:LYS:CB	1:C:788:ALA:HB1	1.92	0.98
1:C:790:VAL:HG13	1:E:785:GLN:N	1.78	0.98
1:R:655:GLN:HG2	1:T:649:ARG:HD3	1.44	0.98
1:UB:746:LEU:HB3	1:VB:740:SER:CB	1.94	0.98
1:C:728:SER:HA	1:E:719:THR:CA	1.93	0.98
1:K:39:ASP:H	1:UB:38:GLN:HB2	1.24	0.98
1:UB:746:LEU:CG	1:VB:740:SER:OG	2.10	0.98
1:A:779:LEU:HB3	1:C:773:ALA:HB1	1.41	0.98
1:C:779:LEU:HD11	1:E:770:LEU:HA	1.05	0.98
1:D:717:GLU:CG	1:F:707:LEU:HB3	1.93	0.98
1:OB:362:PRO:HB3	1:PB:355:ASP:CB	1.93	0.98
1:UB:735:ILE:CG2	1:VB:730:ALA:CB	2.41	0.98
1:A:775:ALA:CB	1:C:770:LEU:HD12	1.94	0.98
1:D:224:LYS:HD2	1:F:294:ASN:HB2	1.42	0.98
1:ZB:742:LEU:CD2	1:AC:734:ARG:CA	2.42	0.98
1:ZB:786:GLN:OE1	1:AC:781:VAL:HG22	1.62	0.98
1:B:279:ARG:HE	1:D:338:GLN:CB	1.77	0.98
1:C:801:ALA:HB1	1:E:796:LYS:CG	1.94	0.98
1:DB:717:GLU:CB	1:EB:707:LEU:HD13	1.94	0.98
1:UB:806:THR:CA	1:VB:808:ARG:HB2	1.94	0.98

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:QA:385:ASN:HD21	1:SA:476:LYS:HE2	1.29	0.98
1:XA:720:GLY:HA3	1:ZA:711:ALA:HB1	1.40	0.98
1:D:167:VAL:CG1	1:F:191:VAL:CG2	2.41	0.97
1:D:167:VAL:HG21	1:F:192:THR:CA	1.93	0.97
1:ZB:735:ILE:CG2	1:AC:726:ALA:CA	2.42	0.97
1:A:775:ALA:HA	1:C:770:LEU:HD12	1.45	0.97
1:IA:148:PRO:HB2	1:KA:138:MET:CE	1.92	0.97
1:D:325:VAL:HG13	1:F:353:ALA:C	1.84	0.97
1:IA:55:PRO:HD3	1:KA:86:ALA:O	1.64	0.97
1:A:744:ALA:CB	1:NB:754:GLU:HG3	1.95	0.97
1:A:794:LYS:CG	1:C:791:GLU:OE2	2.11	0.97
1:R:10:ILE:O	1:T:24:ASN:ND2	1.97	0.97
1:OB:275:THR:OG1	1:PB:296:LEU:HB3	1.63	0.97
1:OB:93:ALA:CB	1:PB:86:ALA:HB1	1.94	0.97
1:UB:735:ILE:HG21	1:VB:730:ALA:HB2	1.40	0.97
1:D:12:PRO:N	1:F:80:GLN:HG2	1.79	0.97
1:D:32:PRO:HB2	1:F:78:THR:CG2	1.93	0.97
1:JB:640:VAL:O	1:KB:580:ARG:NH2	1.95	0.97
1:OB:202:GLY:CA	1:PB:192:THR:O	2.13	0.97
1:OB:276:LEU:O	1:PB:297:GLY:HA3	1.64	0.97
1:UB:709:LEU:HD12	1:VB:700:GLU:HB3	1.44	0.97
1:LB:716:VAL:CG1	1:MB:708:GLU:CG	2.43	0.97
1:SB:728:SER:HA	1:TB:719:THR:HA	1.43	0.97
1:ZB:768:MET:HE1	1:AC:762:VAL:HB	1.43	0.97
1:OB:695:ASP:CG	1:PB:686:GLY:HA3	1.85	0.97
1:VB:775:ALA:HB2	1:WB:770:LEU:HD12	1.46	0.97
1:LB:716:VAL:HG21	1:MB:708:GLU:HG2	1.44	0.96
1:LB:728:SER:HA	1:MB:719:THR:CA	1.94	0.96
1:A:750:ALA:O	1:C:744:ALA:HB2	1.51	0.96
1:A:793:LYS:HZ2	1:C:789:ASN:HD21	1.10	0.96
1:B:790:VAL:HG21	1:D:784:ALA:CB	1.94	0.96
1:D:12:PRO:CG	1:F:80:GLN:CG	2.40	0.96
1:LB:728:SER:CB	1:MB:719:THR:HA	1.93	0.96
1:VB:768:MET:HE1	1:WB:763:LYS:HB2	1.45	0.96
1:B:665:THR:CG2	1:D:589:ASP:HB2	1.94	0.96
1:D:522:PHE:CZ	1:F:566:ASP:HB3	2.01	0.96
1:OB:362:PRO:HB3	1:PB:355:ASP:CA	1.96	0.96
1:TB:592:HIS:CD2	1:UB:534:HIS:NE2	2.26	0.96
1:ZB:735:ILE:HG21	1:AC:726:ALA:HB1	1.30	0.96
1:ZB:768:MET:CE	1:AC:762:VAL:CB	2.44	0.96
1:C:754:GLU:CG	1:E:744:ALA:CB	2.44	0.96

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:775:ALA:CA	1:E:770:LEU:HD12	1.95	0.96
1:D:149:GLY:O	1:F:138:MET:HG3	1.64	0.96
1:VB:640:VAL:HG13	1:WB:580:ARG:NH2	1.81	0.96
1:A:731:GLU:HG2	1:C:723:LYS:HD3	1.44	0.96
1:A:771:ILE:HD11	1:C:763:LYS:HG2	1.45	0.96
1:C:783:LYS:N	1:E:777:LEU:CD1	2.28	0.96
1:FB:706:LEU:HD21	1:GB:697:SER:OG	1.65	0.96
1:TB:776:GLN:OE1	1:UB:770:LEU:HD12	1.64	0.96
1:UB:746:LEU:HD13	1:VB:740:SER:HG	1.29	0.96
1:D:96:PRO:CB	1:F:85:HIS:CE1	2.48	0.96
1:P:768:MET:HE3	1:R:763:LYS:HG3	1.46	0.96
1:LB:652:ASP:HB3	1:MB:649:ARG:NH1	1.78	0.96
1:OB:404:SER:HB2	1:PB:395:THR:O	1.63	0.96
1:D:592:HIS:O	1:F:584:ALA:HB1	1.64	0.96
1:D:721:ASN:HA	1:F:711:ALA:HB1	1.44	0.96
1:RB:739:GLY:HA2	1:SB:734:ARG:NH2	1.80	0.96
1:OB:203:ALA:N	1:PB:192:THR:CB	2.29	0.96
1:A:757:ALA:HB3	1:C:748:ALA:HA	1.48	0.96
1:C:794:LYS:HB2	1:E:788:ALA:HB3	1.45	0.95
1:D:167:VAL:HG13	1:F:191:VAL:HG21	1.48	0.95
1:E:171:ASN:HD21	1:G:245:THR:HG21	1.30	0.95
1:SB:754:GLU:CG	1:TB:744:ALA:HB1	1.96	0.95
1:ZB:746:LEU:HD11	1:AC:733:ALA:O	1.65	0.95
1:A:782:SER:HB2	1:C:777:LEU:HD21	1.45	0.95
1:BB:732:ALA:HB2	1:CB:722:ALA:HB1	1.48	0.95
1:LB:706:LEU:HD21	1:MB:697:SER:OG	1.64	0.95
1:OB:363:LEU:HA	1:PB:353:ALA:HB3	1.46	0.95
1:QB:790:VAL:HG22	1:RB:785:GLN:OE1	1.65	0.95
1:LB:724:ALA:HB2	1:MB:715:ALA:CA	1.95	0.95
1:OB:170:GLN:CG	1:PB:233:GLN:OE1	2.14	0.95
1:OB:798:MET:SD	1:PB:795:PHE:HE2	1.88	0.95
1:UB:793:LYS:NZ	1:VB:792:ALA:HB3	1.82	0.95
1:A:698:GLU:CB	1:C:690:ARG:HD2	1.95	0.95
1:D:275:THR:HG21	1:F:296:LEU:C	1.85	0.95
1:FB:592:HIS:CE1	1:GB:584:ALA:CB	2.49	0.95
1:TB:592:HIS:CD2	1:UB:534:HIS:ND1	2.33	0.95
1:ZB:786:GLN:HE22	1:AC:781:VAL:HG13	1.30	0.95
1:A:775:ALA:CA	1:C:770:LEU:HD12	1.97	0.95
1:C:765:VAL:HA	1:E:759:LEU:CD1	1.97	0.95
1:D:681:GLU:OE1	1:F:675:HIS:NE2	1.99	0.95
1:D:325:VAL:HG21	1:F:337:LEU:O	1.66	0.95

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:SA:706:LEU:CD2	1:UA:693:ILE:HG23	1.95	0.95
1:LB:687:ARG:CZ	1:MB:679:ARG:CD	2.43	0.95
1:OB:713:SER:HG	1:PB:707:LEU:HD12	1.16	0.95
1:A:385:ASN:ND2	1:C:473:TYR:O	1.98	0.95
1:OB:94:GLN:C	1:PB:85:HIS:CD2	2.39	0.95
1:A:719:THR:CA	1:NB:728:SER:HA	1.97	0.95
1:D:52:THR:HB	1:F:85:HIS:HE2	0.79	0.95
1:D:96:PRO:HB3	1:F:85:HIS:CE1	2.01	0.95
1:D:484:PRO:HG2	1:F:471:TYR:CE2	2.01	0.95
1:D:768:MET:SD	1:F:759:LEU:HD11	2.07	0.95
1:DB:717:GLU:HA	1:EB:707:LEU:HB3	1.47	0.95
1:MB:717:GLU:HB2	1:NB:707:LEU:HD13	1.46	0.95
1:UB:764:LYS:HD3	1:VB:759:LEU:HD13	1.47	0.95
1:A:790:VAL:CG1	1:C:784:ALA:C	2.34	0.95
1:L:96:PRO:CD	1:N:85:HIS:CD2	2.47	0.95
1:L:118:ASN:ND2	1:N:180:LYS:HA	1.82	0.95
1:MB:742:LEU:HD23	1:NB:734:ARG:HE	1.32	0.95
1:MB:742:LEU:HD23	1:NB:734:ARG:NE	1.80	0.95
1:TB:783:LYS:CD	1:UB:777:LEU:CD1	2.43	0.95
1:ZB:768:MET:HE3	1:AC:762:VAL:HB	1.46	0.95
1:A:757:ALA:CB	1:C:752:ALA:HB2	1.95	0.94
1:D:592:HIS:CD2	1:F:584:ALA:CB	2.50	0.94
1:BB:706:LEU:HG	1:CB:693:ILE:HD12	1.48	0.94
1:UB:746:LEU:HD13	1:VB:740:SER:OG	1.66	0.94
1:C:783:LYS:N	1:E:777:LEU:HD11	1.81	0.94
1:D:52:THR:H	1:F:86:ALA:HB2	1.26	0.94
1:D:34:THR:HG22	1:F:23:SER:HB2	1.48	0.94
1:N:640:VAL:HG13	1:P:580:ARG:NH2	1.81	0.94
1:P:768:MET:HE3	1:R:763:LYS:CG	1.95	0.94
1:TB:644:GLU:C	1:UB:536:ARG:HH22	1.69	0.94
1:UB:805:GLY:C	1:VB:808:ARG:NH1	2.21	0.94
1:A:716:VAL:CG2	1:C:708:GLU:HA	1.97	0.94
1:A:724:ALA:O	1:C:718:SER:CB	2.15	0.94
1:XA:717:GLU:HB2	1:ZA:707:LEU:HD13	1.45	0.94
1:DB:724:ALA:HB1	1:EB:714:MET:SD	2.06	0.94
1:LB:713:SER:CB	1:MB:704:LYS:HA	1.96	0.94
1:OB:702:ALA:CB	1:PB:693:ILE:CG2	2.45	0.94
1:A:770:LEU:HG	1:NB:779:LEU:HD21	1.45	0.94
1:D:717:GLU:HG2	1:F:707:LEU:HB3	1.49	0.94
1:I:39:ASP:OD1	1:VB:39:ASP:OD1	1.85	0.94
1:VB:768:MET:HE1	1:WB:763:LYS:CB	1.98	0.94

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:772:TYR:HD1	1:C:766:ARG:HB3	1.24	0.94
1:P:790:VAL:HG13	1:R:788:ALA:CB	1.98	0.94
1:TB:592:HIS:NE2	1:UB:534:HIS:CA	2.31	0.94
1:ZB:735:ILE:HG21	1:AC:726:ALA:CA	1.97	0.94
1:A:707:LEU:HB3	1:NB:717:GLU:CB	1.97	0.94
1:A:761:ARG:HB2	1:C:751:LEU:O	1.65	0.94
1:DB:706:LEU:HD21	1:EB:693:ILE:CG2	1.97	0.94
1:UB:764:LYS:CD	1:VB:759:LEU:HD13	1.95	0.94
1:A:753:ILE:HG21	1:C:745:LYS:HA	1.47	0.94
1:D:96:PRO:HG3	1:F:85:HIS:HE1	0.86	0.94
1:CB:720:GLY:HA3	1:DB:711:ALA:HB1	1.49	0.94
1:OB:279:ARG:NH1	1:PB:299:LYS:HZ2	1.65	0.94
1:OB:699:ALA:HA	1:PB:693:ILE:HG13	1.48	0.94
1:OB:739:GLY:HA2	1:PB:734:ARG:NH2	1.82	0.94
1:OB:768:MET:CE	1:PB:763:LYS:HA	1.97	0.94
1:UB:746:LEU:HD11	1:VB:737:GLY:HA3	1.45	0.94
1:UB:790:VAL:HG22	1:VB:788:ALA:HB1	1.50	0.94
1:A:734:ARG:HH21	1:NB:743:GLN:HG3	1.33	0.94
1:A:739:GLY:HA2	1:C:734:ARG:NH1	1.24	0.94
1:C:743:GLN:HG3	1:E:734:ARG:HH21	1.33	0.94
1:FB:461:ARG:HH11	1:GB:473:TYR:HE2	1.05	0.94
1:ZB:706:LEU:HD23	1:AC:693:ILE:HD12	1.47	0.94
1:C:728:SER:HA	1:E:719:THR:HA	0.97	0.94
1:OB:32:PRO:HB2	1:PB:24:ASN:HD22	1.32	0.94
1:ZB:735:ILE:CG2	1:AC:726:ALA:C	2.35	0.94
1:L:96:PRO:HD3	1:N:85:HIS:CG	2.02	0.93
1:LB:670:GLU:HA	1:MB:664:ILE:HG21	1.49	0.93
1:LB:754:GLU:CG	1:MB:744:ALA:HB1	1.98	0.93
1:A:790:VAL:HG13	1:C:784:ALA:O	1.68	0.93
1:A:801:ALA:HB1	1:C:796:LYS:HG3	1.50	0.93
1:C:747:LYS:HE2	1:E:740:SER:OG	1.69	0.93
1:DB:706:LEU:CD2	1:EB:693:ILE:CG2	2.46	0.93
1:OB:95:ASP:HA	1:PB:85:HIS:CD2	2.02	0.93
1:OB:405:THR:HG21	1:PB:393:VAL:O	1.67	0.93
1:UB:806:THR:HB	1:VB:808:ARG:HB3	0.95	0.93
1:C:754:GLU:CG	1:E:744:ALA:HB1	1.96	0.93
1:IA:383:ASP:HB3	1:KA:396:GLY:O	1.68	0.93
1:C:765:VAL:CG1	1:E:755:THR:O	2.15	0.93
1:D:167:VAL:HG23	1:F:192:THR:HB	1.49	0.93
1:QA:654:LEU:HD13	1:SA:534:HIS:CD2	2.04	0.93
1:OB:95:ASP:N	1:PB:85:HIS:CD2	2.36	0.93

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:768:MET:SD	1:E:759:LEU:CG	2.56	0.93
1:C:794:LYS:CD	1:E:788:ALA:HB2	1.96	0.93
1:IA:666:THR:CG2	1:KA:657:SER:HB2	1.99	0.93
1:FB:486:LEU:HD22	1:GB:473:TYR:HB3	1.51	0.93
1:OB:307:SER:OG	1:PB:296:LEU:HB2	1.68	0.93
1:A:779:LEU:HB3	1:C:773:ALA:CB	1.98	0.93
1:D:651:ARG:HG2	1:F:536:ARG:HH12	0.77	0.93
1:A:749:GLN:HB2	1:C:741:VAL:CG1	1.98	0.93
1:D:96:PRO:CB	1:F:85:HIS:HE1	1.82	0.93
1:D:362:PRO:O	1:F:352:GLN:NE2	1.99	0.93
1:D:486:LEU:HB2	1:F:473:TYR:HB3	1.48	0.93
1:IA:362:PRO:HB2	1:KA:352:GLN:CB	1.97	0.93
1:LB:688:LEU:HA	1:MB:679:ARG:NH2	1.84	0.93
1:VB:746:LEU:HB3	1:WB:741:VAL:CG2	1.98	0.93
1:A:790:VAL:HG13	1:C:784:ALA:C	1.89	0.93
1:C:768:MET:SD	1:E:759:LEU:HG	2.09	0.93
1:D:32:PRO:CG	1:F:76:ASP:CB	2.46	0.93
1:F:171:ASN:HD21	1:H:245:THR:CG2	1.81	0.93
1:OB:305:GLU:HB2	1:PB:298:GLN:HG2	1.51	0.93
1:D:9:ARG:HG2	1:F:24:ASN:HB2	1.48	0.93
1:LB:520:PRO:HD2	1:MB:563:SER:HB3	1.51	0.93
1:A:790:VAL:HG22	1:C:785:GLN:N	1.84	0.92
1:D:461:ARG:HB2	1:F:473:TYR:CE2	2.03	0.92
1:MB:742:LEU:HD23	1:NB:734:ARG:CD	2.00	0.92
1:UB:798:MET:SD	1:VB:795:PHE:HE2	1.92	0.92
1:A:768:MET:SD	1:C:759:LEU:O	2.27	0.92
1:D:383:ASP:HB3	1:F:397:LYS:HA	0.92	0.92
1:D:724:ALA:HB1	1:F:715:ALA:HB2	1.51	0.92
1:FB:592:HIS:CE1	1:GB:584:ALA:HB1	2.04	0.92
1:LB:588:PHE:HE2	1:MB:534:HIS:CD2	1.87	0.92
1:MB:768:MET:SD	1:NB:759:LEU:HD12	2.10	0.92
1:VB:757:ALA:HB1	1:WB:752:ALA:CB	1.98	0.92
1:E:779:LEU:HD21	1:G:770:LEU:HG	1.51	0.92
1:BB:706:LEU:CD2	1:CB:693:ILE:CG2	2.44	0.92
1:OB:222:THR:CG2	1:PB:230:ARG:HE	1.80	0.92
1:A:757:ALA:CA	1:C:752:ALA:HB2	1.99	0.92
1:OB:695:ASP:CG	1:PB:686:GLY:CA	2.37	0.92
1:A:753:ILE:CG2	1:C:745:LYS:HA	1.99	0.92
1:D:167:VAL:HG11	1:F:191:VAL:HG23	1.51	0.92
1:DB:673:ALA:CB	1:EB:664:ILE:HD12	2.00	0.92
1:D:167:VAL:HG21	1:F:192:THR:N	1.82	0.92

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:11:PRO:HA	1:F:80:GLN:HG2	1.51	0.92
1:D:52:THR:CB	1:F:85:HIS:NE2	2.30	0.92
1:D:114:VAL:CG2	1:F:140:GLY:CA	2.48	0.92
1:LB:592:HIS:HE1	1:MB:530:GLU:HB3	1.34	0.92
1:VB:768:MET:HE1	1:WB:763:LYS:CG	1.99	0.92
1:R:655:GLN:CG	1:T:649:ARG:HD3	1.99	0.92
1:OB:148:PRO:O	1:PB:138:MET:HE2	1.67	0.92
1:UB:757:ALA:HB1	1:VB:751:LEU:HB3	1.47	0.92
1:UB:806:THR:CB	1:VB:808:ARG:CB	2.39	0.92
1:A:706:LEU:CD1	1:C:696:GLN:HB3	1.99	0.91
1:A:786:GLN:HB3	1:C:781:VAL:HG11	1.47	0.91
1:XA:691:GLN:OE1	1:ZA:679:ARG:NE	2.01	0.91
1:LB:716:VAL:CG1	1:MB:708:GLU:HG2	2.00	0.91
1:OB:640:VAL:HG13	1:PB:580:ARG:HH21	1.33	0.91
1:A:724:ALA:HB2	1:C:714:MET:SD	2.09	0.91
1:A:746:LEU:O	1:C:741:VAL:CG2	2.17	0.91
1:D:662:ILE:HD12	1:F:654:LEU:CD2	2.00	0.91
1:DB:720:GLY:C	1:EB:711:ALA:HB1	1.91	0.91
1:JB:522:PHE:CD2	1:KB:573:LYS:HE2	2.04	0.91
1:OB:32:PRO:HB2	1:PB:24:ASN:HB2	1.05	0.91
1:C:776:GLN:NE2	1:E:769:GLU:OE1	2.02	0.91
1:C:761:ARG:CB	1:E:752:ALA:HA	2.00	0.91
1:OB:362:PRO:HB3	1:PB:355:ASP:HA	1.52	0.91
1:A:707:LEU:CB	1:NB:717:GLU:HB2	2.00	0.91
1:A:709:LEU:HD13	1:C:701:LYS:CG	2.01	0.91
1:D:662:ILE:HD12	1:F:654:LEU:HG	0.93	0.91
1:F:706:LEU:HD21	1:H:693:ILE:HG23	1.53	0.91
1:TB:783:LYS:HD2	1:UB:777:LEU:HD12	1.48	0.91
1:UB:768:MET:HE3	1:VB:766:ARG:HB2	1.51	0.91
1:A:709:LEU:HD13	1:C:701:LYS:HG2	1.53	0.91
1:A:768:MET:HE2	1:C:763:LYS:HB2	1.49	0.91
1:B:385:ASN:ND2	1:D:476:LYS:HE3	1.85	0.91
1:OB:680:LEU:HB3	1:PB:675:HIS:HE1	1.34	0.91
1:A:757:ALA:HB3	1:C:748:ALA:O	1.60	0.91
1:LB:662:ILE:CB	1:MB:654:LEU:HD21	1.99	0.91
1:N:465:ASN:HD21	1:P:563:SER:HA	1.34	0.91
1:TB:687:ARG:HH22	1:UB:679:ARG:HD2	1.31	0.91
1:D:223:GLU:HG3	1:F:293:LYS:HB3	0.94	0.91
1:OB:384:GLN:CB	1:PB:474:ARG:HG3	1.99	0.91
1:SB:655:GLN:HG2	1:TB:649:ARG:CD	2.01	0.91
1:UB:465:ASN:ND2	1:VB:563:SER:O	2.04	0.91

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:OB:307:SER:OG	1:PB:296:LEU:CB	2.19	0.90
1:OB:362:PRO:HB3	1:PB:355:ASP:HB3	1.49	0.90
1:H:775:ALA:HB1	1:J:770:LEU:HD12	1.53	0.90
1:L:95:ASP:CA	1:N:85:HIS:NE2	2.35	0.90
1:ZB:746:LEU:HD22	1:AC:737:GLY:HA3	1.48	0.90
1:D:52:THR:C	1:F:86:ALA:CB	2.40	0.90
1:K:38:GLN:HB2	1:UB:38:GLN:HG3	1.51	0.90
1:DB:717:GLU:HB2	1:EB:707:LEU:CD1	2.00	0.90
1:DB:724:ALA:CB	1:EB:714:MET:SD	2.59	0.90
1:ZB:702:ALA:HB1	1:AC:693:ILE:CG2	1.97	0.90
1:A:713:SER:OG	1:C:703:ARG:CG	2.15	0.90
1:A:786:GLN:CB	1:C:781:VAL:HG13	1.99	0.90
1:HA:739:GLY:HA2	1:JA:734:ARG:NH2	1.86	0.90
1:A:779:LEU:CD1	1:C:773:ALA:CB	2.45	0.90
1:BB:706:LEU:HD21	1:CB:693:ILE:CG2	2.00	0.90
1:ZB:746:LEU:CD2	1:AC:737:GLY:CA	2.48	0.90
1:D:167:VAL:CG2	1:F:192:THR:HB	2.00	0.90
1:RB:702:ALA:HB3	1:SB:693:ILE:HG21	1.52	0.90
1:UB:746:LEU:CD1	1:VB:740:SER:OG	2.20	0.90
1:A:764:LYS:HZ2	1:C:756:GLU:HB2	1.37	0.90
1:LB:279:ARG:HH22	1:MB:299:LYS:HD2	1.34	0.90
1:OB:464:HIS:CE1	1:PB:496:THR:OG1	2.25	0.90
1:A:708:GLU:HG2	1:NB:716:VAL:CG2	2.02	0.90
1:A:746:LEU:HB3	1:C:737:GLY:C	1.92	0.90
1:OB:702:ALA:HB3	1:PB:693:ILE:HG23	1.52	0.90
1:C:772:TYR:HE1	1:E:766:ARG:HB3	1.37	0.90
1:AB:640:VAL:O	1:OB:580:ARG:NH2	2.05	0.90
1:LB:542:ALA:HB1	1:MB:573:LYS:HD2	1.54	0.90
1:OB:305:GLU:OE1	1:PB:298:GLN:CG	2.20	0.90
1:OB:655:GLN:CG	1:PB:649:ARG:HD3	2.01	0.90
1:C:790:VAL:CG1	1:E:785:GLN:N	2.34	0.89
1:D:52:THR:H	1:F:85:HIS:HD2	1.19	0.89
1:A:768:MET:HE1	1:C:763:LYS:CB	1.90	0.89
1:B:658:VAL:HA	1:D:533:ASP:O	1.72	0.89
1:D:484:PRO:CB	1:F:471:TYR:CD2	2.55	0.89
1:IA:592:HIS:O	1:KA:584:ALA:HB1	1.72	0.89
1:SB:666:THR:HG22	1:TB:657:SER:HB2	1.52	0.89
1:D:9:ARG:NE	1:F:24:ASN:OD1	1.98	0.89
1:D:167:VAL:HG21	1:F:192:THR:O	1.70	0.89
1:FB:592:HIS:CD2	1:GB:584:ALA:HB1	2.08	0.89
1:LB:592:HIS:CD2	1:MB:531:THR:O	2.25	0.89

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:UB:753:ILE:CD1	1:VB:748:ALA:CB	2.49	0.89
1:IA:666:THR:HG21	1:KA:657:SER:HB2	1.55	0.89
1:OB:95:ASP:N	1:PB:85:HIS:NE2	2.20	0.89
1:D:522:PHE:HZ	1:F:566:ASP:HB3	1.37	0.89
1:G:385:ASN:HD21	1:I:476:LYS:HE2	1.34	0.89
1:LB:713:SER:OG	1:MB:704:LYS:CA	2.20	0.89
1:B:486:LEU:HB3	1:D:476:LYS:HZ3	1.32	0.89
1:D:114:VAL:CG2	1:F:140:GLY:N	2.35	0.89
1:UB:742:LEU:HD21	1:VB:737:GLY:HA3	1.55	0.89
1:A:709:LEU:CD1	1:C:701:LYS:HG2	2.03	0.89
1:C:765:VAL:HA	1:E:759:LEU:HD12	1.55	0.89
1:D:12:PRO:HG3	1:F:80:GLN:HG3	0.89	0.89
1:AB:640:VAL:HG13	1:OB:580:ARG:HH22	1.32	0.89
1:SB:655:GLN:NE2	1:TB:649:ARG:HB2	1.87	0.89
1:D:32:PRO:HB2	1:F:78:THR:HG22	1.53	0.89
1:DB:55:PRO:HD3	1:EB:86:ALA:HB1	1.54	0.89
1:LB:655:GLN:HG2	1:MB:649:ARG:HD3	1.54	0.89
1:OB:278:PRO:HG3	1:PB:299:LYS:CG	2.03	0.89
1:OB:746:LEU:HD22	1:PB:741:VAL:HG21	1.55	0.89
1:A:757:ALA:HB2	1:C:748:ALA:C	1.92	0.89
1:N:465:ASN:ND2	1:P:563:SER:O	2.05	0.89
1:MB:757:ALA:HB2	1:NB:748:ALA:CA	2.02	0.89
1:A:739:GLY:HA2	1:C:734:ARG:HH12	1.22	0.88
1:D:275:THR:CG2	1:F:296:LEU:O	2.21	0.88
1:L:768:MET:HE3	1:N:763:LYS:HG3	1.55	0.88
1:N:34:THR:CG2	1:P:21:GLN:O	2.21	0.88
1:OB:170:GLN:HG3	1:PB:233:GLN:OE1	1.73	0.88
1:A:698:GLU:HB2	1:C:690:ARG:CD	2.03	0.88
1:D:34:THR:CG2	1:F:23:SER:CB	2.26	0.88
1:D:56:ARG:CZ	1:F:128:ASP:OD2	2.21	0.88
1:D:114:VAL:HG21	1:F:140:GLY:N	1.87	0.88
1:D:754:GLU:HG2	1:F:744:ALA:CB	2.02	0.88
1:K:39:ASP:OD1	1:UB:38:GLN:CA	2.21	0.88
1:K:39:ASP:H	1:UB:38:GLN:CB	1.85	0.88
1:N:640:VAL:O	1:P:580:ARG:NH2	2.07	0.88
1:IA:717:GLU:CG	1:KA:707:LEU:HD13	2.03	0.88
1:ZB:746:LEU:CD1	1:AC:737:GLY:N	2.31	0.88
1:D:542:ALA:CB	1:F:573:LYS:NZ	2.37	0.88
1:CA:653:ALA:HA	1:CA:656:ARG:HE	1.39	0.88
1:LB:681:GLU:HB2	1:MB:675:HIS:NE2	1.88	0.88
1:A:743:GLN:HG3	1:C:733:ALA:HB1	1.55	0.88

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:768:MET:HE1	1:D:762:VAL:HG23	1.54	0.88
1:C:793:LYS:NZ	1:E:785:GLN:NE2	2.21	0.88
1:E:757:ALA:CB	1:G:748:ALA:HB1	2.03	0.88
1:H:171:ASN:HD21	1:J:245:THR:CG2	1.86	0.88
1:XA:653:ALA:HA	1:XA:656:ARG:HE	1.39	0.88
1:NB:653:ALA:HA	1:NB:656:ARG:HE	1.39	0.88
1:RB:653:ALA:HA	1:RB:656:ARG:HE	1.39	0.88
1:RB:702:ALA:HB3	1:SB:693:ILE:CG2	2.02	0.88
1:UB:653:ALA:HA	1:UB:656:ARG:HE	1.39	0.88
1:C:793:LYS:HE3	1:E:785:GLN:HE22	1.37	0.88
1:J:653:ALA:HA	1:J:656:ARG:HE	1.39	0.88
1:DB:653:ALA:HA	1:DB:656:ARG:HE	1.39	0.88
1:DB:728:SER:HB3	1:EB:718:SER:CB	2.03	0.88
1:OB:118:ASN:ND2	1:PB:179:ARG:O	2.06	0.88
1:OB:738:GLU:OE2	1:PB:734:ARG:NH1	2.06	0.88
1:A:779:LEU:CG	1:C:773:ALA:HB3	2.04	0.88
1:FA:653:ALA:HA	1:FA:656:ARG:HE	1.39	0.88
1:JA:653:ALA:HA	1:JA:656:ARG:HE	1.39	0.88
1:LB:716:VAL:CG1	1:MB:708:GLU:HG3	2.01	0.88
1:OB:595:SER:CB	1:PB:580:ARG:HH12	1.86	0.88
1:TB:779:LEU:HD11	1:UB:770:LEU:HD11	1.54	0.88
1:UB:735:ILE:HG21	1:VB:726:ALA:O	1.73	0.88
1:B:786:GLN:OE1	1:D:781:VAL:CG2	2.22	0.88
1:C:743:GLN:HE21	1:E:734:ARG:HH22	1.19	0.88
1:D:51:VAL:HG23	1:F:85:HIS:O	1.72	0.88
1:D:653:ALA:HA	1:D:656:ARG:HE	1.39	0.88
1:P:653:ALA:HA	1:P:656:ARG:HE	1.39	0.88
1:YA:653:ALA:HA	1:YA:656:ARG:HE	1.39	0.88
1:OB:484:PRO:O	1:PB:473:TYR:CE1	2.26	0.88
1:TB:592:HIS:CG	1:UB:534:HIS:CE1	2.57	0.88
1:UB:793:LYS:HZ1	1:VB:792:ALA:HB3	1.32	0.88
1:C:724:ALA:CB	1:E:715:ALA:HA	2.03	0.88
1:H:653:ALA:HA	1:H:656:ARG:HE	1.39	0.88
1:Q:653:ALA:HA	1:Q:656:ARG:HE	1.39	0.88
1:T:653:ALA:HA	1:T:656:ARG:HE	1.39	0.88
1:X:653:ALA:HA	1:X:656:ARG:HE	1.39	0.88
1:LA:653:ALA:HA	1:LA:656:ARG:HE	1.39	0.88
1:LB:595:SER:CB	1:MB:580:ARG:NH1	2.32	0.88
1:OB:56:ARG:HG3	1:PB:127:LEU:HD22	1.55	0.88
1:OB:385:ASN:HB2	1:PB:492:GLU:OE2	1.74	0.88
1:TB:687:ARG:NH2	1:UB:679:ARG:CD	2.33	0.88

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:806:THR:CG2	1:N:804:PRO:HB3	2.03	0.88
1:PA:653:ALA:HA	1:PA:656:ARG:HE	1.39	0.88
1:EB:653:ALA:HA	1:EB:656:ARG:HE	1.39	0.87
1:OB:95:ASP:CA	1:PB:85:HIS:CD2	2.57	0.87
1:UB:764:LYS:HD2	1:VB:759:LEU:HD12	0.89	0.87
1:ZB:768:MET:HE3	1:AC:762:VAL:HG23	1.53	0.87
1:A:759:LEU:HD12	1:NB:768:MET:SD	2.13	0.87
1:C:653:ALA:HA	1:C:656:ARG:HE	1.39	0.87
1:D:484:PRO:HG2	1:F:471:TYR:CD2	2.08	0.87
1:HA:739:GLY:HA2	1:JA:734:ARG:HH22	1.39	0.87
1:GB:653:ALA:HA	1:GB:656:ARG:HE	1.39	0.87
1:ZB:742:LEU:HD23	1:AC:733:ALA:C	1.94	0.87
1:A:709:LEU:CD1	1:C:701:LYS:CG	2.52	0.87
1:D:666:THR:CG2	1:F:657:SER:OG	2.22	0.87
1:L:465:ASN:ND2	1:N:563:SER:O	2.06	0.87
1:L:640:VAL:O	1:N:580:ARG:NH2	2.07	0.87
1:Y:653:ALA:HA	1:Y:656:ARG:HE	1.39	0.87
1:VB:739:GLY:HA3	1:WB:734:ARG:HH22	1.37	0.87
1:YB:653:ALA:HA	1:YB:656:ARG:HE	1.39	0.87
1:A:761:ARG:HG2	1:C:755:THR:HG1	1.33	0.87
1:D:329:GLN:HE21	1:F:394:LYS:CE	1.87	0.87
1:MA:653:ALA:HA	1:MA:656:ARG:HE	1.39	0.87
1:LB:669:GLN:OE1	1:MB:664:ILE:HD13	1.73	0.87
1:OB:169:LYS:HZ3	1:PB:195:GLU:H	0.90	0.87
1:UB:731:GLU:HG2	1:VB:723:LYS:HA	1.56	0.87
1:XB:653:ALA:HA	1:XB:656:ARG:HE	1.39	0.87
1:ZB:746:LEU:HD13	1:AC:737:GLY:HA2	1.52	0.87
1:ZB:786:GLN:NE2	1:AC:781:VAL:HG13	1.89	0.87
1:C:779:LEU:HD13	1:E:770:LEU:HA	0.88	0.87
1:M:653:ALA:HA	1:M:656:ARG:HE	1.39	0.87
1:IA:653:ALA:HA	1:IA:656:ARG:HE	1.39	0.87
1:QA:653:ALA:HA	1:QA:656:ARG:HE	1.39	0.87
1:MB:753:ILE:CG2	1:NB:744:ALA:CB	2.51	0.87
1:UB:735:ILE:CG2	1:VB:730:ALA:CA	2.52	0.87
1:WB:746:LEU:HD12	1:XB:737:GLY:HA3	1.56	0.87
1:N:653:ALA:HA	1:N:656:ARG:HE	1.39	0.87
1:ZA:717:GLU:HB2	1:BB:707:LEU:HD13	1.54	0.87
1:BB:653:ALA:HA	1:BB:656:ARG:HE	1.39	0.87
1:DB:717:GLU:HB2	1:EB:707:LEU:HD13	1.52	0.87
1:LB:596:ALA:HB2	1:MB:581:GLY:HA3	1.57	0.87
1:OB:169:LYS:HZ3	1:PB:195:GLU:N	1.73	0.87

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:TB:779:LEU:HD21	1:UB:774:ARG:NH2	1.89	0.87
1:UB:735:ILE:HG21	1:VB:730:ALA:CB	2.00	0.87
1:B:486:LEU:HB3	1:D:476:LYS:HZ1	1.40	0.87
1:SA:653:ALA:HA	1:SA:656:ARG:HE	1.39	0.87
1:CB:653:ALA:HA	1:CB:656:ARG:HE	1.39	0.87
1:KB:653:ALA:HA	1:KB:656:ARG:HE	1.39	0.87
1:LB:653:ALA:HA	1:LB:656:ARG:HE	1.39	0.87
1:LB:709:LEU:CD1	1:MB:701:LYS:HG2	2.03	0.87
1:C:790:VAL:HG23	1:E:781:VAL:HG13	1.57	0.87
1:E:653:ALA:HA	1:E:656:ARG:HE	1.39	0.87
1:S:653:ALA:HA	1:S:656:ARG:HE	1.39	0.87
1:RA:653:ALA:HA	1:RA:656:ARG:HE	1.39	0.87
1:HB:653:ALA:HA	1:HB:656:ARG:HE	1.39	0.87
1:B:658:VAL:CG1	1:D:533:ASP:O	2.23	0.87
1:D:34:THR:HG21	1:F:23:SER:HB3	1.56	0.87
1:D:52:THR:H	1:F:85:HIS:CD2	1.92	0.87
1:MA:706:LEU:HD21	1:OA:693:ILE:HG23	1.54	0.87
1:LB:692:LYS:HE3	1:MB:682:GLN:OE1	1.75	0.87
1:A:775:ALA:HB1	1:C:770:LEU:HB2	0.90	0.86
1:D:51:VAL:HG22	1:F:86:ALA:CB	2.04	0.86
1:D:171:ASN:HD22	1:F:234:ASN:H	1.18	0.86
1:Z:653:ALA:HA	1:Z:656:ARG:HE	1.39	0.86
1:IA:362:PRO:HB2	1:KA:352:GLN:HB2	1.55	0.86
1:KA:653:ALA:HA	1:KA:656:ARG:HE	1.39	0.86
1:WA:653:ALA:HA	1:WA:656:ARG:HE	1.39	0.86
1:OB:95:ASP:HB3	1:PB:85:HIS:CE1	2.09	0.86
1:QB:653:ALA:HA	1:QB:656:ARG:HE	1.39	0.86
1:TB:787:LEU:HD21	1:UB:781:VAL:CG2	2.05	0.86
1:UB:746:LEU:CD2	1:VB:737:GLY:O	2.23	0.86
1:D:275:THR:HG21	1:F:296:LEU:CA	2.05	0.86
1:I:653:ALA:HA	1:I:656:ARG:HE	1.39	0.86
1:K:653:ALA:HA	1:K:656:ARG:HE	1.39	0.86
1:ZB:706:LEU:HD21	1:AC:693:ILE:HD13	1.55	0.86
1:B:486:LEU:CB	1:D:476:LYS:HZ3	1.87	0.86
1:D:9:ARG:HG2	1:F:23:SER:C	1.79	0.86
1:D:13:TYR:CD2	1:F:82:ARG:HG3	2.11	0.86
1:D:223:GLU:CG	1:F:293:LYS:CG	2.53	0.86
1:G:802:LEU:CD2	1:I:799:THR:HG21	2.05	0.86
1:W:653:ALA:HA	1:W:656:ARG:HE	1.39	0.86
1:MB:653:ALA:HA	1:MB:656:ARG:HE	1.39	0.86
1:OB:639:ASP:HB3	1:PB:577:SER:CB	2.05	0.86

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:653:ALA:HA	1:A:656:ARG:HE	1.39	0.86
1:L:653:ALA:HA	1:L:656:ARG:HE	1.39	0.86
1:X:706:LEU:HD21	1:Z:693:ILE:HG23	1.56	0.86
1:ZA:653:ALA:HA	1:ZA:656:ARG:HE	1.39	0.86
1:IB:653:ALA:HA	1:IB:656:ARG:HE	1.39	0.86
1:WB:746:LEU:HD13	1:XB:737:GLY:C	1.96	0.86
1:B:329:GLN:HE21	1:D:394:LYS:HG3	1.40	0.86
1:C:743:GLN:HE21	1:E:734:ARG:NH2	1.72	0.86
1:F:653:ALA:HA	1:F:656:ARG:HE	1.39	0.86
1:FB:592:HIS:CD2	1:GB:584:ALA:O	2.28	0.86
1:FB:592:HIS:NE2	1:GB:584:ALA:HA	1.90	0.86
1:LB:765:VAL:HG12	1:MB:759:LEU:CD1	2.04	0.86
1:TB:653:ALA:HA	1:TB:656:ARG:HE	1.39	0.86
1:ZB:653:ALA:HA	1:ZB:656:ARG:HE	1.39	0.86
1:A:779:LEU:HD13	1:C:773:ALA:HB2	1.54	0.86
1:D:13:TYR:HE2	1:F:82:ARG:HG2	1.41	0.86
1:EA:653:ALA:HA	1:EA:656:ARG:HE	1.39	0.86
1:AB:653:ALA:HA	1:AB:656:ARG:HE	1.39	0.86
1:DB:706:LEU:HD23	1:EB:693:ILE:HG23	1.55	0.86
1:LB:592:HIS:CE1	1:MB:530:GLU:HB3	2.10	0.86
1:QB:813:ALA:CB	1:RB:811:ALA:HB1	2.05	0.86
1:P:680:LEU:HB3	1:R:675:HIS:CE1	2.11	0.86
1:HA:653:ALA:HA	1:HA:656:ARG:HE	1.39	0.86
1:LB:709:LEU:HD13	1:MB:701:LYS:HG2	1.56	0.86
1:UB:793:LYS:NZ	1:VB:792:ALA:HB1	1.84	0.86
1:WB:702:ALA:HB3	1:XB:693:ILE:HG21	1.55	0.86
1:A:731:GLU:HB3	1:C:723:LYS:HB2	1.56	0.86
1:B:589:ASP:HB2	1:AC:665:THR:CG2	2.06	0.86
1:C:790:VAL:CG2	1:E:785:GLN:HB2	2.04	0.86
1:D:34:THR:HG22	1:F:23:SER:HB3	0.87	0.86
1:D:592:HIS:O	1:F:584:ALA:HB3	1.74	0.86
1:BA:653:ALA:HA	1:BA:656:ARG:HE	1.39	0.86
1:LB:652:ASP:CB	1:MB:649:ARG:NH1	2.38	0.86
1:OB:279:ARG:HH12	1:PB:299:LYS:NZ	1.73	0.86
1:C:224:LYS:HD2	1:E:296:LEU:HD11	1.56	0.86
1:L:96:PRO:HD3	1:N:85:HIS:NE2	1.91	0.86
1:JB:653:ALA:HA	1:JB:656:ARG:HE	1.39	0.86
1:LB:698:GLU:HB2	1:MB:690:ARG:HD2	1.57	0.86
1:MB:724:ALA:HB2	1:NB:714:MET:SD	2.16	0.86
1:MB:742:LEU:HD23	1:NB:734:ARG:HD3	1.56	0.86
1:UB:768:MET:HE2	1:VB:766:ARG:HB2	1.58	0.86

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:753:ILE:HG23	1:C:744:ALA:C	1.95	0.85
1:D:9:ARG:HB3	1:F:24:ASN:HD22	1.40	0.85
1:D:57:HIS:NE2	1:F:127:LEU:CD2	2.39	0.85
1:DA:653:ALA:HA	1:DA:656:ARG:HE	1.39	0.85
1:UB:806:THR:HG22	1:VB:808:ARG:NE	1.90	0.85
1:WB:653:ALA:HA	1:WB:656:ARG:HE	1.39	0.85
1:AC:653:ALA:HA	1:AC:656:ARG:HE	1.39	0.85
1:A:721:ASN:HA	1:C:714:MET:SD	2.17	0.85
1:C:790:VAL:HG21	1:E:781:VAL:C	1.95	0.85
1:D:118:ASN:ND2	1:F:181:GLU:OE1	2.09	0.85
1:D:542:ALA:HB1	1:F:573:LYS:NZ	1.91	0.85
1:NA:653:ALA:HA	1:NA:656:ARG:HE	1.39	0.85
1:QA:171:ASN:HD21	1:SA:245:THR:CG2	1.88	0.85
1:TA:653:ALA:HA	1:TA:656:ARG:HE	1.39	0.85
1:UA:653:ALA:HA	1:UA:656:ARG:HE	1.39	0.85
1:VA:653:ALA:HA	1:VA:656:ARG:HE	1.39	0.85
1:OB:362:PRO:HB2	1:PB:355:ASP:CB	2.03	0.85
1:VB:768:MET:CE	1:WB:763:LYS:CB	2.53	0.85
1:A:654:LEU:HD13	1:C:534:HIS:CD2	2.11	0.85
1:A:727:GLU:HB3	1:C:719:THR:HB	1.57	0.85
1:B:653:ALA:HA	1:B:656:ARG:HE	1.39	0.85
1:G:653:ALA:HA	1:G:656:ARG:HE	1.39	0.85
1:GA:653:ALA:HA	1:GA:656:ARG:HE	1.39	0.85
1:PB:653:ALA:HA	1:PB:656:ARG:HE	1.39	0.85
1:A:522:PHE:CG	1:C:573:LYS:HE2	2.11	0.85
1:D:9:ARG:CZ	1:F:21:GLN:HB2	2.05	0.85
1:E:775:ALA:HB1	1:G:770:LEU:CD1	2.04	0.85
1:OB:520:PRO:O	1:PB:564:VAL:HG23	1.77	0.85
1:TB:465:ASN:ND2	1:UB:563:SER:O	2.08	0.85
1:MB:790:VAL:HG11	1:NB:784:ALA:HB1	1.55	0.85
1:SB:653:ALA:HA	1:SB:656:ARG:HE	1.39	0.85
1:TB:669:GLN:OE1	1:UB:664:ILE:HD13	1.77	0.85
1:VB:653:ALA:HA	1:VB:656:ARG:HE	1.39	0.85
1:ZB:753:ILE:HG21	1:AC:744:ALA:CB	2.06	0.85
1:BB:691:GLN:OE1	1:CB:679:ARG:CD	2.25	0.85
1:LB:592:HIS:NE2	1:MB:531:THR:O	2.10	0.85
1:LB:717:GLU:HG3	1:MB:707:LEU:HD22	1.56	0.85
1:OB:305:GLU:HB2	1:PB:298:GLN:CG	2.07	0.85
1:OB:596:ALA:CB	1:PB:581:GLY:HA3	2.07	0.85
1:OB:653:ALA:HA	1:OB:656:ARG:HE	1.39	0.85
1:B:768:MET:CE	1:D:762:VAL:HG23	2.06	0.85

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:662:ILE:HG22	1:F:588:PHE:CD2	2.11	0.85
1:LB:703:ARG:NH2	1:MB:693:ILE:HD11	1.92	0.85
1:OB:362:PRO:C	1:PB:353:ALA:O	2.15	0.85
1:A:743:GLN:NE2	1:C:733:ALA:HB2	1.88	0.85
1:D:224:LYS:HD2	1:F:294:ASN:HD22	1.41	0.85
1:IA:382:LEU:O	1:KA:396:GLY:HA3	1.77	0.85
1:DB:717:GLU:HG3	1:EB:707:LEU:CD1	2.06	0.85
1:LB:687:ARG:HH12	1:MB:679:ARG:HH11	1.21	0.85
1:OB:201:VAL:HG13	1:PB:191:VAL:CG2	2.07	0.85
1:D:655:GLN:CD	1:F:647:ASP:CG	2.36	0.85
1:OB:95:ASP:HA	1:PB:85:HIS:CG	2.11	0.85
1:D:257:GLU:OE1	1:F:244:ARG:NH2	2.09	0.85
1:V:653:ALA:HA	1:V:656:ARG:HE	1.39	0.85
1:A:764:LYS:CB	1:C:759:LEU:CD1	2.44	0.84
1:C:717:GLU:CB	1:E:707:LEU:HB3	2.07	0.84
1:SB:655:GLN:HG3	1:TB:649:ARG:HD3	1.58	0.84
1:SB:717:GLU:CB	1:TB:707:LEU:HB3	2.07	0.84
1:TB:687:ARG:HH12	1:UB:679:ARG:CZ	1.90	0.84
1:A:790:VAL:HG22	1:C:785:GLN:CB	2.06	0.84
1:B:757:ALA:CB	1:D:748:ALA:HA	2.07	0.84
1:C:754:GLU:CG	1:E:744:ALA:HA	2.07	0.84
1:O:653:ALA:HA	1:O:656:ARG:HE	1.39	0.84
1:OB:680:LEU:CB	1:PB:675:HIS:HE1	1.90	0.84
1:ZB:749:GLN:NE2	1:AC:741:VAL:HG22	1.90	0.84
1:C:716:VAL:HG21	1:E:708:GLU:HG2	1.58	0.84
1:D:688:LEU:HD12	1:F:679:ARG:CZ	2.06	0.84
1:G:224:LYS:HD2	1:I:296:LEU:HD11	1.59	0.84
1:OB:728:SER:HA	1:PB:722:ALA:CB	2.06	0.84
1:A:746:LEU:HD13	1:C:738:GLU:HB3	1.58	0.84
1:B:279:ARG:HH21	1:D:338:GLN:CD	1.80	0.84
1:D:692:LYS:HE3	1:F:682:GLN:HG2	1.58	0.84
1:L:34:THR:CG2	1:N:21:GLN:O	2.24	0.84
1:D:114:VAL:CG2	1:F:138:MET:SD	2.60	0.84
1:D:275:THR:HG21	1:F:296:LEU:O	1.78	0.84
1:AA:653:ALA:HA	1:AA:656:ARG:HE	1.39	0.84
1:DB:731:GLU:CB	1:EB:719:THR:OG1	2.25	0.84
1:FB:592:HIS:NE2	1:GB:584:ALA:CB	2.40	0.84
1:TB:592:HIS:NE2	1:UB:534:HIS:HA	1.90	0.84
1:A:750:ALA:HB2	1:C:740:SER:C	1.98	0.84
1:E:775:ALA:CB	1:G:770:LEU:HD12	2.06	0.84
1:PA:640:VAL:O	1:RA:580:ARG:NH2	2.09	0.84

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:ZA:691:GLN:OE1	1:BB:679:ARG:NE	2.11	0.84
1:LB:465:ASN:ND2	1:MB:562:PHE:O	2.10	0.84
1:A:757:ALA:HB1	1:C:752:ALA:CB	2.08	0.84
1:TB:666:THR:HB	1:UB:660:LEU:HD13	1.58	0.84
1:A:534:HIS:CD2	1:NB:654:LEU:HD13	2.13	0.84
1:A:712:MET:HE1	1:C:704:LYS:HG3	1.60	0.84
1:D:223:GLU:CG	1:F:293:LYS:HG2	2.07	0.84
1:C:793:LYS:CE	1:E:785:GLN:HE22	1.90	0.84
1:P:806:THR:HG21	1:R:804:PRO:HB3	1.59	0.84
1:IA:169:LYS:NZ	1:KA:194:GLU:HA	1.91	0.84
1:TB:643:VAL:C	1:UB:536:ARG:HH21	1.81	0.84
1:ZB:801:ALA:HB1	1:AC:799:THR:OG1	1.77	0.84
1:A:716:VAL:HG21	1:C:708:GLU:HA	1.59	0.84
1:D:9:ARG:HD2	1:F:21:GLN:HA	1.57	0.84
1:D:362:PRO:HB2	1:F:352:GLN:CG	2.01	0.84
1:R:653:ALA:HA	1:R:656:ARG:HE	1.39	0.84
1:IA:639:ASP:OD2	1:KA:573:LYS:NZ	2.10	0.84
1:OA:653:ALA:HA	1:OA:656:ARG:HE	1.39	0.84
1:VB:465:ASN:ND2	1:WB:563:SER:O	2.11	0.84
1:D:666:THR:HG21	1:F:657:SER:CB	2.08	0.83
1:FB:542:ALA:HB1	1:GB:573:LYS:NZ	1.93	0.83
1:OB:687:ARG:HH12	1:PB:679:ARG:NH1	1.76	0.83
1:UB:742:LEU:CG	1:VB:737:GLY:HA3	2.07	0.83
1:A:790:VAL:CG2	1:C:785:GLN:N	2.41	0.83
1:FB:461:ARG:NH1	1:GB:494:GLN:HG3	1.92	0.83
1:LB:666:THR:CG2	1:MB:657:SER:HB2	2.07	0.83
1:OB:486:LEU:HB2	1:PB:473:TYR:CD2	2.13	0.83
1:WB:739:GLY:HA2	1:XB:734:ARG:HH22	1.40	0.83
1:A:711:ALA:HB1	1:NB:720:GLY:C	1.99	0.83
1:D:57:HIS:HE1	1:F:127:LEU:HD13	1.40	0.83
1:FB:651:ARG:HG2	1:GB:536:ARG:NH2	1.93	0.83
1:JB:465:ASN:HD21	1:KB:563:SER:HA	1.43	0.83
1:MB:749:GLN:HB2	1:NB:741:VAL:HG22	1.57	0.83
1:OB:746:LEU:HD13	1:PB:737:GLY:C	1.97	0.83
1:D:114:VAL:CG2	1:F:140:GLY:HA3	2.00	0.83
1:D:484:PRO:HB2	1:F:471:TYR:CG	2.13	0.83
1:OB:32:PRO:HG2	1:PB:24:ASN:CB	2.03	0.83
1:SB:754:GLU:HG3	1:TB:744:ALA:HB1	1.61	0.83
1:A:753:ILE:HG21	1:C:745:LYS:CA	2.08	0.83
1:D:32:PRO:CB	1:F:78:THR:HG22	2.09	0.83
1:D:662:ILE:CG1	1:F:654:LEU:HD21	2.09	0.83

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:593:LYS:HG3	1:F:585:SER:HA	1.61	0.83
1:FB:653:ALA:HA	1:FB:656:ARG:HE	1.39	0.83
1:OB:385:ASN:HD21	1:PB:473:TYR:C	1.82	0.83
1:B:742:LEU:CD2	1:D:734:ARG:HE	1.83	0.83
1:LB:640:VAL:CG1	1:MB:580:ARG:NH2	2.41	0.83
1:OB:203:ALA:CB	1:PB:192:THR:CG2	2.33	0.83
1:VB:757:ALA:CB	1:WB:752:ALA:HB2	2.07	0.83
1:FB:592:HIS:CG	1:GB:584:ALA:HB1	2.14	0.83
1:C:717:GLU:HB2	1:E:707:LEU:CB	2.09	0.83
1:A:719:THR:HA	1:NB:728:SER:CA	2.03	0.82
1:D:171:ASN:HD21	1:F:234:ASN:CB	1.92	0.82
1:TB:790:VAL:CG1	1:UB:785:GLN:OE1	2.27	0.82
1:UB:753:ILE:CD1	1:VB:748:ALA:HB1	2.09	0.82
1:A:771:ILE:HD11	1:C:763:LYS:HG3	1.59	0.82
1:P:794:LYS:HD3	1:R:791:GLU:OE2	1.80	0.82
1:E:717:GLU:HB2	1:G:707:LEU:HB3	1.59	0.82
1:FB:383:ASP:HB3	1:GB:397:LYS:HA	1.60	0.82
1:MB:768:MET:HE1	1:NB:759:LEU:O	1.79	0.82
1:SB:673:ALA:HB1	1:TB:664:ILE:HB	1.59	0.82
1:UB:757:ALA:HB2	1:VB:751:LEU:CB	1.98	0.82
1:UB:749:GLN:HB3	1:VB:744:ALA:HB1	1.60	0.82
1:A:702:ALA:HB3	1:C:693:ILE:CG2	2.10	0.82
1:N:95:ASP:HA	1:P:85:HIS:CD2	2.14	0.82
1:BB:742:LEU:HD23	1:CB:734:ARG:NE	1.93	0.82
1:FB:171:ASN:HD21	1:GB:245:THR:HG22	1.44	0.82
1:LB:385:ASN:ND2	1:MB:473:TYR:O	2.10	0.82
1:UB:798:MET:SD	1:VB:795:PHE:CE2	2.72	0.82
1:P:813:ALA:HB1	1:R:811:ALA:O	1.80	0.82
1:TA:720:GLY:HA3	1:VA:711:ALA:HB1	1.62	0.82
1:D:223:GLU:OE2	1:F:293:LYS:HA	1.80	0.82
1:D:381:PRO:HB3	1:F:393:VAL:O	1.78	0.82
1:D:405:THR:HG21	1:F:394:LYS:O	1.79	0.82
1:H:794:LYS:HB2	1:J:788:ALA:HB1	1.61	0.82
1:C:794:LYS:HG3	1:E:788:ALA:HB1	1.61	0.82
1:IA:681:GLU:HA	1:KA:675:HIS:CE1	2.14	0.82
1:OB:305:GLU:CD	1:PB:298:GLN:NE2	2.30	0.82
1:TB:592:HIS:NE2	1:UB:534:HIS:CD2	2.42	0.82
1:C:754:GLU:HG2	1:E:744:ALA:CA	2.08	0.82
1:FB:405:THR:CG2	1:GB:395:THR:HA	2.09	0.82
1:OB:768:MET:HE1	1:PB:763:LYS:HA	1.61	0.82
1:B:693:ILE:HG23	1:AC:706:LEU:HD11	1.62	0.82

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:777:LEU:HD21	1:AC:786:GLN:OE1	1.79	0.82
1:D:9:ARG:CG	1:F:24:ASN:CB	2.58	0.82
1:LB:639:ASP:HB3	1:MB:577:SER:HB3	1.62	0.82
1:LB:692:LYS:HG3	1:MB:682:GLN:CD	1.98	0.82
1:A:779:LEU:CD2	1:C:770:LEU:O	2.28	0.81
1:B:654:LEU:HB3	1:D:534:HIS:CD2	2.15	0.81
1:C:754:GLU:CG	1:E:744:ALA:CA	2.57	0.81
1:D:11:PRO:CA	1:F:80:GLN:HG2	2.09	0.81
1:P:809:ASP:CB	1:R:808:ARG:HB2	2.08	0.81
1:AB:768:MET:HE3	1:OB:763:LYS:HG3	1.60	0.81
1:LB:703:ARG:NH2	1:MB:693:ILE:CD1	2.43	0.81
1:D:12:PRO:CD	1:F:80:GLN:HG2	2.08	0.81
1:QA:385:ASN:ND2	1:SA:476:LYS:HE2	1.95	0.81
1:ZB:742:LEU:HD22	1:AC:734:ARG:CZ	2.10	0.81
1:A:748:ALA:CB	1:NB:757:ALA:HB3	2.07	0.81
1:B:338:GLN:OE1	1:AC:279:ARG:NH2	2.14	0.81
1:B:790:VAL:HG21	1:D:784:ALA:HB1	1.60	0.81
1:D:9:ARG:NH1	1:F:21:GLN:CB	2.40	0.81
1:D:381:PRO:HB2	1:F:396:GLY:HA2	1.62	0.81
1:IA:706:LEU:CD2	1:KA:693:ILE:HG23	2.10	0.81
1:FB:461:ARG:NH1	1:GB:473:TYR:CE2	2.47	0.81
1:FB:486:LEU:HB2	1:GB:473:TYR:HB3	1.60	0.81
1:HB:706:LEU:CD2	1:IB:693:ILE:HD12	2.08	0.81
1:ZB:735:ILE:HG13	1:AC:726:ALA:HB3	1.60	0.81
1:C:720:GLY:HA3	1:E:711:ALA:HB1	1.62	0.81
1:D:681:GLU:OE1	1:F:675:HIS:CE1	2.33	0.81
1:L:95:ASP:HA	1:N:85:HIS:CD2	2.14	0.81
1:EB:717:GLU:HB2	1:FB:707:LEU:HD13	1.60	0.81
1:UB:768:MET:CE	1:VB:766:ARG:HD2	2.10	0.81
1:A:750:ALA:C	1:C:744:ALA:CB	2.34	0.81
1:D:12:PRO:HD3	1:F:80:GLN:CG	2.10	0.81
1:MB:706:LEU:CD2	1:NB:693:ILE:HG23	2.10	0.81
1:UB:738:GLU:OE2	1:VB:730:ALA:CA	2.24	0.81
1:D:224:LYS:HD2	1:F:294:ASN:CB	2.11	0.81
1:E:385:ASN:HD21	1:G:476:LYS:HE2	1.44	0.81
1:FB:640:VAL:C	1:GB:577:SER:HB2	2.00	0.81
1:LB:684:ALA:CB	1:MB:675:HIS:HB3	2.10	0.81
1:SB:717:GLU:HB2	1:TB:707:LEU:CB	2.11	0.81
1:D:33:LYS:CA	1:F:78:THR:HB	2.09	0.81
1:D:662:ILE:CD1	1:F:654:LEU:CD1	2.54	0.81
1:IA:728:SER:HB3	1:KA:718:SER:OG	1.80	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:UB:731:GLU:HG2	1:VB:723:LYS:CA	2.10	0.81
1:UB:786:GLN:OE1	1:VB:781:VAL:HG13	1.81	0.81
1:A:746:LEU:HD12	1:C:734:ARG:O	1.79	0.81
1:B:759:LEU:HD11	1:AC:768:MET:HE3	1.53	0.81
1:K:39:ASP:CG	1:UB:38:GLN:HA	2.00	0.81
1:LB:680:LEU:HD13	1:MB:672:ALA:HB2	1.60	0.81
1:OB:327:SER:HB2	1:PB:356:CYS:SG	2.20	0.81
1:C:757:ALA:CB	1:E:748:ALA:HB1	2.06	0.81
1:D:171:ASN:HD21	1:F:234:ASN:H	0.85	0.81
1:AB:465:ASN:ND2	1:OB:563:SER:O	2.14	0.81
1:ZB:658:VAL:CG2	1:AC:534:HIS:CB	2.57	0.81
1:ZB:742:LEU:CD2	1:AC:734:ARG:HH21	1.92	0.81
1:LB:520:PRO:O	1:MB:564:VAL:HA	1.79	0.81
1:OB:695:ASP:OD1	1:PB:686:GLY:HA3	1.81	0.81
1:UB:691:GLN:HB3	1:VB:682:GLN:CG	2.11	0.81
1:UB:790:VAL:CG2	1:VB:788:ALA:CB	2.29	0.81
1:D:202:GLY:C	1:F:191:VAL:HG11	2.02	0.80
1:E:754:GLU:HG3	1:G:744:ALA:HB1	1.61	0.80
1:LB:775:ALA:HB1	1:MB:770:LEU:HD12	1.62	0.80
1:OB:405:THR:H	1:PB:396:GLY:HA3	1.40	0.80
1:UB:746:LEU:CD1	1:VB:737:GLY:CA	1.83	0.80
1:A:753:ILE:O	1:C:748:ALA:CB	2.29	0.80
1:A:757:ALA:CB	1:C:748:ALA:CA	2.45	0.80
1:G:768:MET:HE3	1:I:763:LYS:HB2	1.63	0.80
1:UB:806:THR:N	1:VB:808:ARG:HH12	1.79	0.80
1:UB:806:THR:HA	1:VB:808:ARG:CB	2.11	0.80
1:A:749:GLN:HB3	1:C:745:LYS:NZ	1.95	0.80
1:AB:465:ASN:ND2	1:OB:563:SER:HA	1.97	0.80
1:DB:673:ALA:HB1	1:EB:664:ILE:HD12	1.61	0.80
1:DB:757:ALA:HB1	1:EB:748:ALA:HB1	1.62	0.80
1:A:746:LEU:HD13	1:C:738:GLU:CA	2.11	0.80
1:I:96:PRO:HD3	1:K:85:HIS:NE2	1.95	0.80
1:IA:279:ARG:HH22	1:KA:299:LYS:HD2	1.46	0.80
1:LB:666:THR:HG21	1:MB:657:SER:HB2	1.62	0.80
1:TB:643:VAL:C	1:UB:536:ARG:NH2	2.34	0.80
1:A:764:LYS:C	1:C:759:LEU:CD1	2.50	0.80
1:D:12:PRO:HG2	1:F:81:VAL:C	1.98	0.80
1:D:728:SER:HA	1:F:719:THR:HB	1.64	0.80
1:LB:593:LYS:HA	1:MB:584:ALA:O	1.81	0.80
1:OB:32:PRO:CB	1:PB:24:ASN:HD22	1.93	0.80
1:VB:739:GLY:HA3	1:WB:734:ARG:NH2	1.88	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:ZB:742:LEU:CG	1:AC:734:ARG:HH21	1.94	0.80
1:ZB:757:ALA:HB1	1:AC:751:LEU:CG	2.10	0.80
1:A:746:LEU:CD1	1:C:738:GLU:N	2.44	0.80
1:A:753:ILE:CG2	1:C:745:LYS:N	2.45	0.80
1:DB:720:GLY:HA3	1:EB:711:ALA:CB	2.11	0.80
1:FB:593:LYS:O	1:GB:585:SER:HB3	1.81	0.80
1:FB:640:VAL:O	1:GB:577:SER:CB	2.30	0.80
1:TB:592:HIS:CE1	1:UB:534:HIS:HA	2.16	0.80
1:UB:742:LEU:HD23	1:VB:737:GLY:HA3	1.61	0.80
1:UB:806:THR:CA	1:VB:808:ARG:CB	2.59	0.80
1:A:728:SER:HA	1:C:718:SER:O	1.82	0.80
1:B:731:GLU:HG2	1:D:719:THR:OG1	1.81	0.80
1:C:801:ALA:CB	1:E:796:LYS:CD	2.50	0.80
1:D:167:VAL:HG21	1:F:192:THR:C	2.01	0.80
1:L:118:ASN:HD22	1:N:180:LYS:HA	1.43	0.80
1:FB:385:ASN:ND2	1:GB:473:TYR:O	2.14	0.80
1:R:278:PRO:HD3	1:T:297:GLY:O	1.82	0.80
1:TB:666:THR:HB	1:UB:660:LEU:CD1	2.11	0.80
1:B:797:GLU:OE1	1:D:792:ALA:HB3	1.80	0.80
1:D:32:PRO:O	1:F:77:VAL:HG23	1.81	0.80
1:LB:713:SER:OG	1:MB:704:LYS:N	2.14	0.80
1:B:786:GLN:OE1	1:D:781:VAL:HG22	1.82	0.79
1:R:595:SER:CB	1:T:580:ARG:HH12	1.94	0.79
1:V:717:GLU:HG3	1:X:707:LEU:HD13	1.63	0.79
1:V:756:GLU:O	1:V:759:LEU:HB3	1.83	0.79
1:JB:756:GLU:O	1:JB:759:LEU:HB3	1.83	0.79
1:A:732:ALA:CA	1:C:726:ALA:CB	2.46	0.79
1:L:756:GLU:O	1:L:759:LEU:HB3	1.83	0.79
1:GA:756:GLU:O	1:GA:759:LEU:HB3	1.83	0.79
1:HA:756:GLU:O	1:HA:759:LEU:HB3	1.83	0.79
1:JA:756:GLU:O	1:JA:759:LEU:HB3	1.83	0.79
1:KA:756:GLU:O	1:KA:759:LEU:HB3	1.83	0.79
1:QA:756:GLU:O	1:QA:759:LEU:HB3	1.83	0.79
1:RA:756:GLU:O	1:RA:759:LEU:HB3	1.83	0.79
1:DB:756:GLU:O	1:DB:759:LEU:HB3	1.83	0.79
1:FB:520:PRO:HD2	1:GB:563:SER:HB3	1.62	0.79
1:LB:756:GLU:O	1:LB:759:LEU:HB3	1.83	0.79
1:RB:756:GLU:O	1:RB:759:LEU:HB3	1.83	0.79
1:AC:756:GLU:O	1:AC:759:LEU:HB3	1.83	0.79
1:B:786:GLN:CD	1:D:781:VAL:HG22	2.01	0.79
1:C:783:LYS:CA	1:E:777:LEU:CG	2.33	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:756:GLU:O	1:D:759:LEU:HB3	1.83	0.79
1:G:756:GLU:O	1:G:759:LEU:HB3	1.83	0.79
1:Z:756:GLU:O	1:Z:759:LEU:HB3	1.83	0.79
1:DA:756:GLU:O	1:DA:759:LEU:HB3	1.83	0.79
1:MA:756:GLU:O	1:MA:759:LEU:HB3	1.83	0.79
1:OB:275:THR:HB	1:PB:296:LEU:HD23	1.63	0.79
1:SB:673:ALA:CB	1:TB:664:ILE:HB	2.12	0.79
1:WB:746:LEU:CD1	1:XB:737:GLY:HA3	2.11	0.79
1:YB:756:GLU:O	1:YB:759:LEU:HB3	1.83	0.79
1:A:746:LEU:HA	1:C:741:VAL:CG2	2.13	0.79
1:D:662:ILE:CD1	1:F:654:LEU:HD11	2.13	0.79
1:N:756:GLU:O	1:N:759:LEU:HB3	1.83	0.79
1:IA:655:GLN:NE2	1:KA:647:ASP:OD2	2.15	0.79
1:SA:756:GLU:O	1:SA:759:LEU:HB3	1.83	0.79
1:WA:756:GLU:O	1:WA:759:LEU:HB3	1.83	0.79
1:FB:756:GLU:O	1:FB:759:LEU:HB3	1.83	0.79
1:IB:756:GLU:O	1:IB:759:LEU:HB3	1.83	0.79
1:UB:768:MET:HE1	1:VB:766:ARG:HB2	1.61	0.79
1:VB:756:GLU:O	1:VB:759:LEU:HB3	1.83	0.79
1:C:790:VAL:CG2	1:E:781:VAL:O	2.31	0.79
1:D:33:LYS:HA	1:F:78:THR:CB	2.10	0.79
1:L:813:ALA:HB1	1:N:811:ALA:C	2.02	0.79
1:HA:702:ALA:CB	1:JA:693:ILE:CG2	2.59	0.79
1:TA:756:GLU:O	1:TA:759:LEU:HB3	1.83	0.79
1:VA:756:GLU:O	1:VA:759:LEU:HB3	1.83	0.79
1:YA:756:GLU:O	1:YA:759:LEU:HB3	1.83	0.79
1:LB:681:GLU:CA	1:MB:675:HIS:CE1	2.66	0.79
1:UB:691:GLN:HB3	1:VB:682:GLN:HG2	1.64	0.79
1:AB:756:GLU:O	1:AB:759:LEU:HB3	1.83	0.79
1:MB:756:GLU:O	1:MB:759:LEU:HB3	1.83	0.79
1:TB:666:THR:HG21	1:UB:660:LEU:HD12	1.64	0.79
1:TB:756:GLU:O	1:TB:759:LEU:HB3	1.83	0.79
1:D:150:THR:OG1	1:F:138:MET:CG	2.21	0.79
1:Q:756:GLU:O	1:Q:759:LEU:HB3	1.83	0.79
1:BA:756:GLU:O	1:BA:759:LEU:HB3	1.83	0.79
1:LB:639:ASP:HB3	1:MB:577:SER:CB	2.12	0.79
1:OB:305:GLU:OE1	1:PB:298:GLN:HG3	1.83	0.79
1:ZB:746:LEU:CD1	1:AC:733:ALA:O	2.30	0.79
1:C:756:GLU:O	1:C:759:LEU:HB3	1.83	0.79
1:G:790:VAL:HG11	1:I:784:ALA:HB1	1.64	0.79
1:AA:756:GLU:O	1:AA:759:LEU:HB3	1.83	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:ZA:756:GLU:O	1:ZA:759:LEU:HB3	1.83	0.79
1:BB:724:ALA:CB	1:CB:714:MET:SD	2.71	0.79
1:EB:756:GLU:O	1:EB:759:LEU:HB3	1.83	0.79
1:NB:756:GLU:O	1:NB:759:LEU:HB3	1.83	0.79
1:OB:640:VAL:CG1	1:PB:580:ARG:NH2	2.46	0.79
1:UB:746:LEU:CD1	1:VB:740:SER:HG	1.94	0.79
1:A:783:LYS:N	1:C:777:LEU:HG	1.98	0.79
1:F:756:GLU:O	1:F:759:LEU:HB3	1.83	0.79
1:M:756:GLU:O	1:M:759:LEU:HB3	1.83	0.79
1:BB:756:GLU:O	1:BB:759:LEU:HB3	1.83	0.79
1:UB:735:ILE:HG23	1:VB:730:ALA:CB	2.07	0.79
1:C:813:ALA:HB2	1:E:811:ALA:HB1	1.65	0.79
1:O:756:GLU:O	1:O:759:LEU:HB3	1.83	0.79
1:CA:756:GLU:O	1:CA:759:LEU:HB3	1.83	0.79
1:NA:756:GLU:O	1:NA:759:LEU:HB3	1.83	0.79
1:LB:706:LEU:HD22	1:MB:697:SER:OG	1.83	0.79
1:OB:279:ARG:NH1	1:PB:299:LYS:NZ	2.28	0.79
1:PB:756:GLU:O	1:PB:759:LEU:HB3	1.83	0.79
1:QB:756:GLU:O	1:QB:759:LEU:HB3	1.83	0.79
1:D:9:ARG:CD	1:F:24:ASN:N	2.46	0.78
1:K:756:GLU:O	1:K:759:LEU:HB3	1.83	0.78
1:PA:756:GLU:O	1:PA:759:LEU:HB3	1.83	0.78
1:FB:592:HIS:NE2	1:GB:584:ALA:CA	2.45	0.78
1:LB:692:LYS:CG	1:MB:682:GLN:CD	2.52	0.78
1:OB:768:MET:HE3	1:PB:763:LYS:HA	1.63	0.78
1:A:711:ALA:HB1	1:NB:720:GLY:HA3	1.64	0.78
1:A:782:SER:C	1:C:777:LEU:HG	2.02	0.78
1:E:756:GLU:O	1:E:759:LEU:HB3	1.83	0.78
1:H:756:GLU:O	1:H:759:LEU:HB3	1.83	0.78
1:K:39:ASP:N	1:UB:38:GLN:HB2	1.99	0.78
1:AB:639:ASP:HB3	1:OB:577:SER:CB	2.13	0.78
1:UB:746:LEU:CD1	1:VB:737:GLY:C	2.41	0.78
1:UB:756:GLU:O	1:UB:759:LEU:HB3	1.83	0.78
1:WB:756:GLU:O	1:WB:759:LEU:HB3	1.83	0.78
1:ZB:735:ILE:HB	1:AC:726:ALA:CA	2.13	0.78
1:DB:731:GLU:HB3	1:EB:719:THR:OG1	1.82	0.78
1:LB:743:GLN:HE21	1:MB:734:ARG:HH22	1.31	0.78
1:SB:724:ALA:HB1	1:TB:715:ALA:HA	1.63	0.78
1:XB:756:GLU:O	1:XB:759:LEU:HB3	1.83	0.78
1:A:716:VAL:HG22	1:C:708:GLU:HA	1.64	0.78
1:A:794:LYS:CD	1:C:791:GLU:OE2	2.32	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:790:VAL:HG21	1:D:784:ALA:HB3	1.63	0.78
1:HB:756:GLU:O	1:HB:759:LEU:HB3	1.83	0.78
1:OB:596:ALA:HB2	1:PB:581:GLY:HA3	1.65	0.78
1:TB:687:ARG:HH12	1:UB:679:ARG:NH1	1.81	0.78
1:UB:768:MET:HE1	1:VB:766:ARG:CG	2.13	0.78
1:A:764:LYS:HB3	1:C:759:LEU:HD11	1.61	0.78
1:B:756:GLU:O	1:B:759:LEU:HB3	1.83	0.78
1:C:724:ALA:O	1:E:718:SER:OG	2.00	0.78
1:C:779:LEU:HD11	1:E:770:LEU:HB2	1.63	0.78
1:D:464:HIS:NE2	1:F:471:TYR:HB2	1.97	0.78
1:D:666:THR:HG21	1:F:657:SER:OG	1.83	0.78
1:S:756:GLU:O	1:S:759:LEU:HB3	1.83	0.78
1:IA:673:ALA:HB2	1:KA:664:ILE:HD12	1.66	0.78
1:OA:756:GLU:O	1:OA:759:LEU:HB3	1.83	0.78
1:AB:639:ASP:HB3	1:OB:577:SER:HB2	1.65	0.78
1:CB:756:GLU:O	1:CB:759:LEU:HB3	1.83	0.78
1:GB:756:GLU:O	1:GB:759:LEU:HB3	1.83	0.78
1:UB:731:GLU:HG2	1:VB:723:LYS:N	1.98	0.78
1:A:698:GLU:HB2	1:C:690:ARG:HD2	1.61	0.78
1:A:720:GLY:HA3	1:C:711:ALA:HB1	0.85	0.78
1:B:279:ARG:HH21	1:D:338:GLN:HB2	1.46	0.78
1:I:756:GLU:O	1:I:759:LEU:HB3	1.83	0.78
1:IA:55:PRO:CD	1:KA:86:ALA:O	2.30	0.78
1:OB:10:ILE:O	1:PB:24:ASN:ND2	2.17	0.78
1:OB:756:GLU:O	1:OB:759:LEU:HB3	1.83	0.78
1:VB:761:ARG:HG3	1:WB:755:THR:OG1	1.83	0.78
1:A:712:MET:SD	1:C:704:LYS:HB2	2.23	0.78
1:A:724:ALA:C	1:C:718:SER:OG	2.22	0.78
1:B:790:VAL:CG2	1:D:784:ALA:CB	2.62	0.78
1:EA:756:GLU:O	1:EA:759:LEU:HB3	1.83	0.78
1:TA:691:GLN:OE1	1:VA:679:ARG:NE	2.16	0.78
1:DB:757:ALA:CB	1:EB:748:ALA:CB	2.60	0.78
1:LB:721:ASN:N	1:MB:711:ALA:HB1	1.99	0.78
1:D:167:VAL:CG2	1:F:192:THR:N	2.46	0.78
1:D:654:LEU:HD22	1:F:534:HIS:CD2	2.18	0.78
1:X:756:GLU:O	1:X:759:LEU:HB3	1.83	0.78
1:FA:756:GLU:O	1:FA:759:LEU:HB3	1.83	0.78
1:LA:756:GLU:O	1:LA:759:LEU:HB3	1.83	0.78
1:FB:486:LEU:HD22	1:GB:473:TYR:CB	2.13	0.78
1:KB:756:GLU:O	1:KB:759:LEU:HB3	1.83	0.78
1:C:779:LEU:HD22	1:E:770:LEU:O	1.82	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:275:THR:CG2	1:F:296:LEU:C	2.51	0.78
1:H:224:LYS:HD2	1:J:296:LEU:HD11	1.66	0.78
1:J:756:GLU:O	1:J:759:LEU:HB3	1.83	0.78
1:T:756:GLU:O	1:T:759:LEU:HB3	1.83	0.78
1:W:756:GLU:O	1:W:759:LEU:HB3	1.83	0.78
1:UA:756:GLU:O	1:UA:759:LEU:HB3	1.83	0.78
1:FB:592:HIS:HE2	1:GB:584:ALA:HA	1.47	0.78
1:SB:756:GLU:O	1:SB:759:LEU:HB3	1.83	0.78
1:FB:654:LEU:HD22	1:GB:534:HIS:ND1	1.97	0.78
1:FB:706:LEU:CD2	1:GB:697:SER:OG	2.31	0.78
1:LB:592:HIS:O	1:MB:584:ALA:CB	2.30	0.78
1:UB:802:LEU:HD23	1:VB:807:ILE:CG2	2.14	0.78
1:ZB:756:GLU:O	1:ZB:759:LEU:HB3	1.83	0.78
1:A:731:GLU:HG3	1:C:723:LYS:CG	2.13	0.77
1:A:746:LEU:HD13	1:C:738:GLU:CB	2.13	0.77
1:A:753:ILE:CG2	1:C:745:LYS:CA	2.63	0.77
1:A:756:GLU:O	1:A:759:LEU:HB3	1.83	0.77
1:R:756:GLU:O	1:R:759:LEU:HB3	1.83	0.77
1:FB:364:GLU:HB3	1:GB:353:ALA:CB	2.13	0.77
1:FB:522:PHE:CG	1:GB:573:LYS:HE2	2.19	0.77
1:OB:764:LYS:HD2	1:PB:759:LEU:HD11	1.64	0.77
1:SB:754:GLU:HG2	1:TB:744:ALA:HB1	1.64	0.77
1:VB:680:LEU:HB3	1:WB:675:HIS:CE1	2.19	0.77
1:B:790:VAL:CG2	1:D:784:ALA:HB1	2.14	0.77
1:C:750:ALA:HB2	1:E:741:VAL:HA	1.65	0.77
1:P:756:GLU:O	1:P:759:LEU:HB3	1.83	0.77
1:UB:746:LEU:CD1	1:VB:737:GLY:O	2.31	0.77
1:Q:706:LEU:HD21	1:S:693:ILE:HG23	1.64	0.77
1:LB:692:LYS:HG2	1:MB:682:GLN:NE2	1.99	0.77
1:A:711:ALA:HB1	1:NB:720:GLY:CA	2.14	0.77
1:XA:756:GLU:O	1:XA:759:LEU:HB3	1.83	0.77
1:MB:743:GLN:HG2	1:NB:733:ALA:HB1	1.66	0.77
1:ZB:658:VAL:CG2	1:AC:534:HIS:HB2	2.14	0.77
1:A:732:ALA:HB2	1:C:722:ALA:O	1.84	0.77
1:A:779:LEU:HD21	1:C:770:LEU:O	1.85	0.77
1:A:790:VAL:HG21	1:C:781:VAL:O	1.85	0.77
1:LB:687:ARG:HH12	1:MB:679:ARG:NH1	1.82	0.77
1:OB:278:PRO:HD2	1:PB:299:LYS:HE3	1.65	0.77
1:OB:278:PRO:HD3	1:PB:297:GLY:O	1.84	0.77
1:UB:735:ILE:CG2	1:VB:730:ALA:N	2.47	0.77
1:A:735:ILE:CG2	1:C:727:GLU:HG2	2.14	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Y:756:GLU:O	1:Y:759:LEU:HB3	1.83	0.77
1:IA:279:ARG:HH22	1:KA:299:LYS:CD	1.97	0.77
1:IA:756:GLU:O	1:IA:759:LEU:HB3	1.83	0.77
1:FB:405:THR:HB	1:GB:395:THR:C	2.05	0.77
1:LB:706:LEU:HD22	1:MB:697:SER:HA	1.66	0.77
1:OB:728:SER:HA	1:PB:722:ALA:HB3	1.66	0.77
1:A:746:LEU:CA	1:C:741:VAL:CG2	2.63	0.77
1:C:787:LEU:N	1:E:781:VAL:HG22	1.99	0.77
1:D:202:GLY:HA2	1:F:191:VAL:HG11	1.67	0.77
1:OB:595:SER:HB3	1:PB:580:ARG:NH1	1.97	0.77
1:UB:735:ILE:HG21	1:VB:730:ALA:N	2.00	0.77
1:XB:385:ASN:ND2	1:YB:473:TYR:O	2.16	0.77
1:ZB:753:ILE:HG21	1:AC:744:ALA:CA	2.15	0.77
1:D:224:LYS:CD	1:F:294:ASN:HB2	2.15	0.77
1:G:171:ASN:ND2	1:I:245:THR:CG2	2.36	0.77
1:FB:171:ASN:HD21	1:GB:245:THR:CG2	1.98	0.77
1:ZB:749:GLN:NE2	1:AC:741:VAL:CG2	2.48	0.77
1:A:790:VAL:HG22	1:C:785:GLN:HB2	1.66	0.77
1:LB:669:GLN:OE1	1:MB:664:ILE:CD1	2.31	0.77
1:VB:702:ALA:HB3	1:WB:693:ILE:CG2	2.15	0.77
1:B:589:ASP:HB2	1:AC:665:THR:HG23	1.67	0.76
1:B:706:LEU:CD2	1:D:693:ILE:HG23	2.10	0.76
1:D:382:LEU:N	1:F:396:GLY:HA3	2.00	0.76
1:N:640:VAL:HG13	1:P:580:ARG:HH22	1.47	0.76
1:OB:680:LEU:CB	1:PB:675:HIS:CE1	2.63	0.76
1:OB:695:ASP:OD1	1:PB:686:GLY:CA	2.33	0.76
1:ZB:742:LEU:CD2	1:AC:734:ARG:NE	2.46	0.76
1:A:698:GLU:HB3	1:C:690:ARG:HD2	1.66	0.76
1:A:734:ARG:HH21	1:NB:743:GLN:CG	1.99	0.76
1:D:257:GLU:HB3	1:F:244:ARG:HG3	1.67	0.76
1:UB:768:MET:HE1	1:VB:766:ARG:HD2	1.66	0.76
1:B:279:ARG:NE	1:D:338:GLN:CB	2.40	0.76
1:B:279:ARG:HH21	1:D:338:GLN:CB	1.97	0.76
1:FB:654:LEU:HD13	1:GB:534:HIS:NE2	1.94	0.76
1:OB:279:ARG:NH2	1:PB:299:LYS:HD2	2.00	0.76
1:A:734:ARG:NH2	1:NB:743:GLN:HG3	2.00	0.76
1:A:771:ILE:CD1	1:C:763:LYS:HG2	2.16	0.76
1:BB:731:GLU:CG	1:CB:719:THR:OG1	2.34	0.76
1:OB:257:GLU:HB2	1:PB:245:THR:OG1	1.85	0.76
1:C:765:VAL:HG12	1:E:755:THR:O	1.85	0.76
1:RB:279:ARG:HH22	1:SB:299:LYS:HZ2	1.31	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:658:VAL:CG2	1:F:535:ALA:HA	2.15	0.76
1:L:794:LYS:CD	1:N:791:GLU:OE2	2.32	0.76
1:LB:721:ASN:OD1	1:MB:714:MET:SD	2.44	0.76
1:ZB:746:LEU:CG	1:AC:737:GLY:CA	2.56	0.76
1:B:657:SER:OG	1:D:534:HIS:HE1	1.67	0.76
1:C:790:VAL:HA	1:E:785:GLN:OE1	1.86	0.76
1:D:279:ARG:HH22	1:F:369:ALA:HB1	1.49	0.76
1:E:224:LYS:HD2	1:G:296:LEU:HD11	1.66	0.76
1:F:477:ARG:HH12	1:F:479:ARG:HH11	1.34	0.76
1:M:477:ARG:HH12	1:M:479:ARG:HH11	1.34	0.76
1:N:639:ASP:HB3	1:P:577:SER:HB2	1.67	0.76
1:AA:477:ARG:HH12	1:AA:479:ARG:HH11	1.34	0.76
1:PA:465:ASN:HD21	1:RA:563:SER:HA	1.50	0.76
1:BB:717:GLU:CB	1:CB:707:LEU:HD13	2.15	0.76
1:CB:477:ARG:HH12	1:CB:479:ARG:HH11	1.34	0.76
1:FB:651:ARG:HG2	1:GB:536:ARG:CZ	2.16	0.76
1:LB:699:ALA:HB1	1:MB:693:ILE:HG13	1.66	0.76
1:OB:363:LEU:CA	1:PB:353:ALA:HB3	2.14	0.76
1:TB:790:VAL:HG13	1:UB:785:GLN:OE1	1.86	0.76
1:A:477:ARG:HH12	1:A:479:ARG:HH11	1.34	0.76
1:A:732:ALA:CB	1:C:726:ALA:HB2	2.15	0.76
1:D:717:GLU:HG3	1:F:707:LEU:HB3	1.68	0.76
1:FB:654:LEU:HD13	1:GB:534:HIS:HD2	0.95	0.76
1:OB:32:PRO:CG	1:PB:24:ASN:HB3	2.15	0.76
1:TB:592:HIS:NE2	1:UB:534:HIS:N	2.34	0.76
1:WB:477:ARG:HH12	1:WB:479:ARG:HH11	1.34	0.76
1:A:731:GLU:CG	1:C:723:LYS:CD	2.50	0.76
1:A:793:LYS:NZ	1:C:789:ASN:ND2	2.34	0.76
1:B:753:ILE:CG2	1:D:744:ALA:CB	2.59	0.76
1:C:477:ARG:HH12	1:C:479:ARG:HH11	1.34	0.76
1:R:32:PRO:HB2	1:T:24:ASN:HB2	1.66	0.76
1:DA:477:ARG:HH12	1:DA:479:ARG:HH11	1.34	0.76
1:KB:477:ARG:HH12	1:KB:479:ARG:HH11	1.34	0.76
1:D:11:PRO:C	1:F:80:GLN:HG2	2.06	0.75
1:V:477:ARG:HH12	1:V:479:ARG:HH11	1.34	0.75
1:LB:655:GLN:NE2	1:MB:647:ASP:OD2	2.20	0.75
1:LB:743:GLN:NE2	1:MB:734:ARG:NH2	2.33	0.75
1:C:772:TYR:CZ	1:E:766:ARG:HB3	2.19	0.75
1:D:112:LEU:HD23	1:F:128:ASP:HB2	1.66	0.75
1:D:717:GLU:HG3	1:F:707:LEU:CB	2.16	0.75
1:H:477:ARG:HH12	1:H:479:ARG:HH11	1.34	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Z:62:ALA:HB2	1:Z:106:GLU:HG3	1.69	0.75
1:OA:62:ALA:HB2	1:OA:106:GLU:HG3	1.69	0.75
1:VA:62:ALA:HB2	1:VA:106:GLU:HG3	1.69	0.75
1:WA:477:ARG:HH12	1:WA:479:ARG:HH11	1.34	0.75
1:BB:477:ARG:HH12	1:BB:479:ARG:HH11	1.34	0.75
1:GB:477:ARG:HH12	1:GB:479:ARG:HH11	1.34	0.75
1:JB:62:ALA:HB2	1:JB:106:GLU:HG3	1.69	0.75
1:OB:739:GLY:HA2	1:PB:734:ARG:HH22	1.47	0.75
1:SB:477:ARG:HH12	1:SB:479:ARG:HH11	1.34	0.75
1:WB:739:GLY:HA2	1:XB:734:ARG:NH2	2.00	0.75
1:AC:477:ARG:HH12	1:AC:479:ARG:HH11	1.34	0.75
1:C:62:ALA:HB2	1:C:106:GLU:HG3	1.69	0.75
1:D:484:PRO:CG	1:F:471:TYR:CD2	2.69	0.75
1:D:713:SER:OG	1:F:704:LYS:HB2	1.87	0.75
1:E:62:ALA:HB2	1:E:106:GLU:HG3	1.69	0.75
1:E:171:ASN:HD21	1:G:245:THR:CG2	2.00	0.75
1:M:62:ALA:HB2	1:M:106:GLU:HG3	1.69	0.75
1:N:62:ALA:HB2	1:N:106:GLU:HG3	1.69	0.75
1:O:62:ALA:HB2	1:O:106:GLU:HG3	1.69	0.75
1:HA:713:SER:OG	1:JA:707:LEU:HD12	1.87	0.75
1:JA:477:ARG:HH12	1:JA:479:ARG:HH11	1.34	0.75
1:LA:62:ALA:HB2	1:LA:106:GLU:HG3	1.69	0.75
1:NA:477:ARG:HH12	1:NA:479:ARG:HH11	1.34	0.75
1:YA:62:ALA:HB2	1:YA:106:GLU:HG3	1.69	0.75
1:CB:717:GLU:HB2	1:DB:707:LEU:HD13	1.68	0.75
1:DB:720:GLY:CA	1:EB:711:ALA:HB1	2.16	0.75
1:FB:486:LEU:CD2	1:GB:473:TYR:HB3	2.16	0.75
1:LB:692:LYS:CE	1:MB:682:GLN:OE1	2.33	0.75
1:RB:477:ARG:HH12	1:RB:479:ARG:HH11	1.34	0.75
1:TB:62:ALA:HB2	1:TB:106:GLU:HG3	1.69	0.75
1:TB:666:THR:CG2	1:UB:660:LEU:HD12	2.15	0.75
1:A:62:ALA:HB2	1:A:106:GLU:HG3	1.69	0.75
1:A:709:LEU:CD1	1:C:701:LYS:HG3	2.16	0.75
1:D:12:PRO:N	1:F:80:GLN:CG	2.48	0.75
1:H:62:ALA:HB2	1:H:106:GLU:HG3	1.69	0.75
1:I:477:ARG:HH12	1:I:479:ARG:HH11	1.34	0.75
1:K:477:ARG:HH12	1:K:479:ARG:HH11	1.34	0.75
1:O:477:ARG:HH12	1:O:479:ARG:HH11	1.34	0.75
1:W:62:ALA:HB2	1:W:106:GLU:HG3	1.69	0.75
1:Y:477:ARG:HH12	1:Y:479:ARG:HH11	1.34	0.75
1:BA:477:ARG:HH12	1:BA:479:ARG:HH11	1.34	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:IA:477:ARG:HH12	1:IA:479:ARG:HH11	1.34	0.75
1:AB:62:ALA:HB2	1:AB:106:GLU:HG3	1.69	0.75
1:DB:62:ALA:HB2	1:DB:106:GLU:HG3	1.69	0.75
1:LB:680:LEU:CD1	1:MB:672:ALA:HB2	2.17	0.75
1:LB:724:ALA:HB2	1:MB:715:ALA:CB	2.15	0.75
1:SB:62:ALA:HB2	1:SB:106:GLU:HG3	1.69	0.75
1:UB:790:VAL:HG13	1:VB:791:GLU:OE2	1.86	0.75
1:A:790:VAL:HG11	1:C:784:ALA:HB3	1.65	0.75
1:C:761:ARG:HB2	1:E:752:ALA:CA	2.11	0.75
1:G:62:ALA:HB2	1:G:106:GLU:HG3	1.69	0.75
1:CA:62:ALA:HB2	1:CA:106:GLU:HG3	1.69	0.75
1:UB:62:ALA:HB2	1:UB:106:GLU:HG3	1.69	0.75
1:UB:731:GLU:CG	1:VB:723:LYS:HA	2.16	0.75
1:XB:62:ALA:HB2	1:XB:106:GLU:HG3	1.69	0.75
1:ZB:735:ILE:CB	1:AC:726:ALA:CA	2.65	0.75
1:ZB:742:LEU:CD2	1:AC:734:ARG:N	2.50	0.75
1:AC:62:ALA:HB2	1:AC:106:GLU:HG3	1.69	0.75
1:A:701:LYS:HG2	1:NB:709:LEU:HD13	1.67	0.75
1:B:753:ILE:HG21	1:D:744:ALA:HB1	1.67	0.75
1:C:801:ALA:HB1	1:E:796:LYS:HG3	1.68	0.75
1:G:477:ARG:HH12	1:G:479:ARG:HH11	1.34	0.75
1:K:62:ALA:HB2	1:K:106:GLU:HG3	1.69	0.75
1:OA:477:ARG:HH12	1:OA:479:ARG:HH11	1.34	0.75
1:YA:477:ARG:HH12	1:YA:479:ARG:HH11	1.34	0.75
1:AB:477:ARG:HH12	1:AB:479:ARG:HH11	1.34	0.75
1:OB:62:ALA:HB2	1:OB:106:GLU:HG3	1.69	0.75
1:TB:34:THR:HG21	1:UB:21:GLN:O	1.85	0.75
1:ZB:753:ILE:HG21	1:AC:744:ALA:HB1	1.68	0.75
1:D:655:GLN:NE2	1:F:647:ASP:OD1	2.19	0.75
1:Q:62:ALA:HB2	1:Q:106:GLU:HG3	1.69	0.75
1:CA:477:ARG:HH12	1:CA:479:ARG:HH11	1.34	0.75
1:GA:62:ALA:HB2	1:GA:106:GLU:HG3	1.69	0.75
1:LA:477:ARG:HH12	1:LA:479:ARG:HH11	1.34	0.75
1:DB:477:ARG:HH12	1:DB:479:ARG:HH11	1.34	0.75
1:FB:62:ALA:HB2	1:FB:106:GLU:HG3	1.69	0.75
1:OB:384:GLN:OE1	1:PB:474:ARG:HG2	1.86	0.75
1:TB:477:ARG:HH12	1:TB:479:ARG:HH11	1.34	0.75
1:UB:749:GLN:HB2	1:VB:744:ALA:HB2	1.69	0.75
1:ZB:477:ARG:HH12	1:ZB:479:ARG:HH11	1.34	0.75
1:D:640:VAL:O	1:F:577:SER:HB3	1.87	0.75
1:WA:62:ALA:HB2	1:WA:106:GLU:HG3	1.69	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:NB:62:ALA:HB2	1:NB:106:GLU:HG3	1.69	0.75
1:OB:362:PRO:CB	1:PB:355:ASP:CA	2.64	0.75
1:VB:768:MET:HE2	1:WB:763:LYS:HB2	1.68	0.75
1:B:62:ALA:HB2	1:B:106:GLU:HG3	1.69	0.75
1:D:484:PRO:CG	1:F:471:TYR:CE2	2.70	0.75
1:D:641:GLN:HG2	1:F:573:LYS:HB2	1.69	0.75
1:E:477:ARG:HH12	1:E:479:ARG:HH11	1.34	0.75
1:I:62:ALA:HB2	1:I:106:GLU:HG3	1.69	0.75
1:L:95:ASP:CB	1:N:85:HIS:NE2	2.49	0.75
1:HA:62:ALA:HB2	1:HA:106:GLU:HG3	1.69	0.75
1:GB:62:ALA:HB2	1:GB:106:GLU:HG3	1.69	0.75
1:NB:477:ARG:HH12	1:NB:479:ARG:HH11	1.34	0.75
1:OB:477:ARG:HH12	1:OB:479:ARG:HH11	1.34	0.75
1:PB:62:ALA:HB2	1:PB:106:GLU:HG3	1.69	0.75
1:RB:62:ALA:HB2	1:RB:106:GLU:HG3	1.69	0.75
1:TB:592:HIS:CE1	1:UB:534:HIS:CG	2.67	0.75
1:VB:768:MET:HE3	1:WB:763:LYS:HG3	1.66	0.75
1:YB:62:ALA:HB2	1:YB:106:GLU:HG3	1.69	0.75
1:ZB:742:LEU:HD21	1:AC:734:ARG:CA	2.07	0.75
1:R:34:THR:CG2	1:T:21:GLN:O	2.34	0.74
1:FA:62:ALA:HB2	1:FA:106:GLU:HG3	1.69	0.74
1:RA:62:ALA:HB2	1:RA:106:GLU:HG3	1.69	0.74
1:UA:477:ARG:HH12	1:UA:479:ARG:HH11	1.34	0.74
1:ZA:62:ALA:HB2	1:ZA:106:GLU:HG3	1.69	0.74
1:QB:62:ALA:HB2	1:QB:106:GLU:HG3	1.69	0.74
1:ZB:706:LEU:CD2	1:AC:693:ILE:CD1	2.42	0.74
1:ZB:735:ILE:CB	1:AC:726:ALA:HB2	1.92	0.74
1:C:750:ALA:O	1:E:744:ALA:HB1	1.87	0.74
1:C:813:ALA:CA	1:E:811:ALA:HB1	2.17	0.74
1:R:62:ALA:HB2	1:R:106:GLU:HG3	1.69	0.74
1:AA:62:ALA:HB2	1:AA:106:GLU:HG3	1.69	0.74
1:MA:591:PHE:HD1	1:MA:598:ILE:HD11	1.53	0.74
1:XA:757:ALA:HB2	1:ZA:748:ALA:HB1	1.69	0.74
1:ZA:477:ARG:HH12	1:ZA:479:ARG:HH11	1.34	0.74
1:BB:55:PRO:HD3	1:CB:86:ALA:HB1	1.67	0.74
1:FB:522:PHE:CD1	1:GB:573:LYS:HE2	2.23	0.74
1:LB:775:ALA:HB1	1:MB:770:LEU:CD1	2.16	0.74
1:PB:477:ARG:HH12	1:PB:479:ARG:HH11	1.34	0.74
1:WB:522:PHE:CG	1:XB:573:LYS:HE2	2.21	0.74
1:A:744:ALA:CB	1:NB:754:GLU:CG	2.66	0.74
1:A:790:VAL:HG11	1:C:784:ALA:C	2.03	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:385:ASN:ND2	1:D:476:LYS:CE	2.50	0.74
1:L:798:MET:CE	1:N:795:PHE:CD2	2.70	0.74
1:N:806:THR:HG22	1:P:804:PRO:HB3	1.69	0.74
1:IA:62:ALA:HB2	1:IA:106:GLU:HG3	1.69	0.74
1:PA:477:ARG:HH12	1:PA:479:ARG:HH11	1.34	0.74
1:YA:591:PHE:HD1	1:YA:598:ILE:HD11	1.53	0.74
1:LB:687:ARG:HH22	1:MB:679:ARG:HG3	1.52	0.74
1:LB:716:VAL:HG11	1:MB:708:GLU:HG2	1.55	0.74
1:MB:591:PHE:HD1	1:MB:598:ILE:HD11	1.53	0.74
1:OB:170:GLN:HG2	1:PB:233:GLN:CD	2.07	0.74
1:QB:591:PHE:HD1	1:QB:598:ILE:HD11	1.53	0.74
1:A:731:GLU:CG	1:C:723:LYS:HB2	2.17	0.74
1:A:746:LEU:HA	1:C:741:VAL:HG21	1.69	0.74
1:A:753:ILE:HG23	1:C:744:ALA:O	1.87	0.74
1:B:338:GLN:CD	1:AC:279:ARG:HH21	1.89	0.74
1:D:13:TYR:HE2	1:F:82:ARG:CD	2.00	0.74
1:D:56:ARG:NH2	1:F:128:ASP:OD2	2.20	0.74
1:D:662:ILE:HD12	1:F:654:LEU:HD11	1.68	0.74
1:L:655:GLN:HG2	1:N:649:ARG:HD3	1.69	0.74
1:O:591:PHE:HD1	1:O:598:ILE:HD11	1.53	0.74
1:Q:591:PHE:HD1	1:Q:598:ILE:HD11	1.53	0.74
1:EA:591:PHE:HD1	1:EA:598:ILE:HD11	1.53	0.74
1:GA:477:ARG:HH12	1:GA:479:ARG:HH11	1.34	0.74
1:HA:591:PHE:HD1	1:HA:598:ILE:HD11	1.53	0.74
1:KA:591:PHE:HD1	1:KA:598:ILE:HD11	1.53	0.74
1:VA:706:LEU:HD21	1:XA:693:ILE:HG23	1.69	0.74
1:XA:477:ARG:HH12	1:XA:479:ARG:HH11	1.34	0.74
1:BB:706:LEU:CG	1:CB:693:ILE:HD12	2.16	0.74
1:FB:258:ALA:CB	1:GB:245:THR:OG1	2.31	0.74
1:FB:484:PRO:O	1:GB:471:TYR:CE2	2.41	0.74
1:HB:477:ARG:HH12	1:HB:479:ARG:HH11	1.34	0.74
1:LB:670:GLU:CA	1:MB:664:ILE:HG21	2.17	0.74
1:MB:62:ALA:HB2	1:MB:106:GLU:HG3	1.69	0.74
1:OB:464:HIS:CD2	1:PB:496:THR:OG1	2.39	0.74
1:OB:595:SER:CB	1:PB:580:ARG:NH1	2.50	0.74
1:SB:591:PHE:HD1	1:SB:598:ILE:HD11	1.53	0.74
1:TB:591:PHE:HD1	1:TB:598:ILE:HD11	1.53	0.74
1:UB:768:MET:HE2	1:VB:766:ARG:CB	2.15	0.74
1:A:731:GLU:CB	1:C:723:LYS:HB2	2.18	0.74
1:C:750:ALA:CB	1:E:741:VAL:HA	2.17	0.74
1:C:798:MET:CA	1:E:792:ALA:HB1	2.18	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:381:PRO:HB3	1:F:393:VAL:HA	1.69	0.74
1:E:768:MET:SD	1:G:759:LEU:HD12	2.27	0.74
1:IA:55:PRO:HD3	1:KA:86:ALA:CA	2.18	0.74
1:VA:591:PHE:HD1	1:VA:598:ILE:HD11	1.53	0.74
1:FB:477:ARG:HH12	1:FB:479:ARG:HH11	1.34	0.74
1:SB:724:ALA:CB	1:TB:715:ALA:HA	2.16	0.74
1:A:757:ALA:O	1:C:752:ALA:HA	1.88	0.74
1:D:779:LEU:HD21	1:F:770:LEU:HD12	1.70	0.74
1:R:591:PHE:HD1	1:R:598:ILE:HD11	1.53	0.74
1:T:62:ALA:HB2	1:T:106:GLU:HG3	1.69	0.74
1:X:591:PHE:HD1	1:X:598:ILE:HD11	1.53	0.74
1:AA:591:PHE:HD1	1:AA:598:ILE:HD11	1.53	0.74
1:KA:477:ARG:HH12	1:KA:479:ARG:HH11	1.34	0.74
1:QA:62:ALA:HB2	1:QA:106:GLU:HG3	1.69	0.74
1:FB:654:LEU:CD1	1:GB:534:HIS:NE2	2.50	0.74
1:LB:591:PHE:HD1	1:LB:598:ILE:HD11	1.53	0.74
1:XB:591:PHE:HD1	1:XB:598:ILE:HD11	1.53	0.74
1:ZB:591:PHE:HD1	1:ZB:598:ILE:HD11	1.53	0.74
1:E:591:PHE:HD1	1:E:598:ILE:HD11	1.53	0.74
1:F:591:PHE:HD1	1:F:598:ILE:HD11	1.53	0.74
1:H:651:ARG:O	1:H:653:ALA:N	2.21	0.74
1:M:549:LEU:HD11	1:M:561:LEU:HD11	1.70	0.74
1:N:549:LEU:HD11	1:N:561:LEU:HD11	1.70	0.74
1:T:651:ARG:O	1:T:653:ALA:N	2.21	0.74
1:EA:549:LEU:HD11	1:EA:561:LEU:HD11	1.70	0.74
1:RA:549:LEU:HD11	1:RA:561:LEU:HD11	1.70	0.74
1:SA:591:PHE:HD1	1:SA:598:ILE:HD11	1.53	0.74
1:UA:549:LEU:HD11	1:UA:561:LEU:HD11	1.70	0.74
1:GB:549:LEU:HD11	1:GB:561:LEU:HD11	1.70	0.74
1:IB:591:PHE:HD1	1:IB:598:ILE:HD11	1.53	0.74
1:JB:591:PHE:HD1	1:JB:598:ILE:HD11	1.53	0.74
1:JB:651:ARG:O	1:JB:653:ALA:N	2.21	0.74
1:OB:203:ALA:HB3	1:PB:192:THR:HG21	1.63	0.74
1:TB:640:VAL:O	1:UB:580:ARG:CZ	2.35	0.74
1:TB:687:ARG:HH22	1:UB:679:ARG:CD	1.97	0.74
1:YB:591:PHE:HD1	1:YB:598:ILE:HD11	1.53	0.74
1:A:716:VAL:HG21	1:C:708:GLU:HG2	1.68	0.74
1:B:486:LEU:H	1:D:476:LYS:HZ3	1.33	0.74
1:C:591:PHE:HD1	1:C:598:ILE:HD11	1.53	0.74
1:D:477:ARG:HH12	1:D:479:ARG:HH11	1.34	0.74
1:L:62:ALA:HB2	1:L:106:GLU:HG3	1.69	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:T:549:LEU:HD11	1:T:561:LEU:HD11	1.70	0.74
1:Y:591:PHE:HD1	1:Y:598:ILE:HD11	1.53	0.74
1:JA:591:PHE:HD1	1:JA:598:ILE:HD11	1.53	0.74
1:LA:549:LEU:HD11	1:LA:561:LEU:HD11	1.70	0.74
1:QA:591:PHE:HD1	1:QA:598:ILE:HD11	1.53	0.74
1:VA:477:ARG:HH12	1:VA:479:ARG:HH11	1.34	0.74
1:CB:62:ALA:HB2	1:CB:106:GLU:HG3	1.69	0.74
1:EB:549:LEU:HD11	1:EB:561:LEU:HD11	1.70	0.74
1:EB:651:ARG:O	1:EB:653:ALA:N	2.21	0.74
1:LB:596:ALA:CB	1:MB:581:GLY:HA3	2.17	0.74
1:LB:712:MET:SD	1:MB:704:LYS:HD2	2.28	0.74
1:OB:305:GLU:CB	1:PB:298:GLN:HG2	2.18	0.74
1:QB:477:ARG:HH12	1:QB:479:ARG:HH11	1.34	0.74
1:WB:591:PHE:HD1	1:WB:598:ILE:HD11	1.53	0.74
1:AC:591:PHE:HD1	1:AC:598:ILE:HD11	1.53	0.74
1:A:793:LYS:NZ	1:C:789:ASN:HD21	1.86	0.74
1:I:591:PHE:HD1	1:I:598:ILE:HD11	1.53	0.74
1:J:591:PHE:HD1	1:J:598:ILE:HD11	1.53	0.74
1:X:62:ALA:HB2	1:X:106:GLU:HG3	1.69	0.74
1:IA:595:SER:CB	1:KA:580:ARG:NH1	2.48	0.74
1:OA:549:LEU:HD11	1:OA:561:LEU:HD11	1.70	0.74
1:DB:591:PHE:HD1	1:DB:598:ILE:HD11	1.53	0.74
1:KB:62:ALA:HB2	1:KB:106:GLU:HG3	1.69	0.74
1:LB:666:THR:HG22	1:MB:657:SER:CB	2.18	0.74
1:OB:148:PRO:O	1:PB:138:MET:CE	2.35	0.74
1:OB:307:SER:HB3	1:PB:296:LEU:HB2	1.70	0.74
1:PB:591:PHE:HD1	1:PB:598:ILE:HD11	1.53	0.74
1:SB:549:LEU:HD11	1:SB:561:LEU:HD11	1.70	0.74
1:YB:549:LEU:HD11	1:YB:561:LEU:HD11	1.70	0.74
1:A:20:ASP:O	1:A:24:ASN:N	2.21	0.74
1:C:782:SER:C	1:E:777:LEU:HD11	2.08	0.74
1:D:9:ARG:CD	1:F:21:GLN:HA	2.18	0.74
1:J:62:ALA:HB2	1:J:106:GLU:HG3	1.69	0.74
1:K:591:PHE:HD1	1:K:598:ILE:HD11	1.53	0.74
1:P:651:ARG:O	1:P:653:ALA:N	2.21	0.74
1:Q:549:LEU:HD11	1:Q:561:LEU:HD11	1.70	0.74
1:V:20:ASP:O	1:V:24:ASN:N	2.21	0.74
1:BA:549:LEU:HD11	1:BA:561:LEU:HD11	1.70	0.74
1:EA:651:ARG:O	1:EA:653:ALA:N	2.21	0.74
1:FA:477:ARG:HH12	1:FA:479:ARG:HH11	1.34	0.74
1:HA:477:ARG:HH12	1:HA:479:ARG:HH11	1.34	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:IA:549:LEU:HD11	1:IA:561:LEU:HD11	1.70	0.74
1:NA:62:ALA:HB2	1:NA:106:GLU:HG3	1.69	0.74
1:QA:477:ARG:HH12	1:QA:479:ARG:HH11	1.34	0.74
1:UA:62:ALA:HB2	1:UA:106:GLU:HG3	1.69	0.74
1:FB:654:LEU:CD2	1:GB:534:HIS:CE1	2.69	0.74
1:HB:62:ALA:HB2	1:HB:106:GLU:HG3	1.69	0.74
1:HB:591:PHE:HD1	1:HB:598:ILE:HD11	1.53	0.74
1:NB:591:PHE:HD1	1:NB:598:ILE:HD11	1.53	0.74
1:OB:202:GLY:HA2	1:PB:192:THR:C	2.08	0.74
1:UB:805:GLY:C	1:VB:808:ARG:HH12	1.87	0.74
1:ZB:549:LEU:HD11	1:ZB:561:LEU:HD11	1.70	0.74
1:D:382:LEU:O	1:F:395:THR:O	2.06	0.73
1:F:549:LEU:HD11	1:F:561:LEU:HD11	1.70	0.73
1:G:549:LEU:HD11	1:G:561:LEU:HD11	1.70	0.73
1:N:591:PHE:HD1	1:N:598:ILE:HD11	1.53	0.73
1:Z:591:PHE:HD1	1:Z:598:ILE:HD11	1.53	0.73
1:AA:549:LEU:HD11	1:AA:561:LEU:HD11	1.70	0.73
1:DA:62:ALA:HB2	1:DA:106:GLU:HG3	1.69	0.73
1:HA:20:ASP:O	1:HA:24:ASN:N	2.21	0.73
1:HA:651:ARG:O	1:HA:653:ALA:N	2.21	0.73
1:MA:477:ARG:HH12	1:MA:479:ARG:HH11	1.34	0.73
1:NA:591:PHE:HD1	1:NA:598:ILE:HD11	1.53	0.73
1:QA:20:ASP:O	1:QA:24:ASN:N	2.21	0.73
1:TA:62:ALA:HB2	1:TA:106:GLU:HG3	1.69	0.73
1:TA:477:ARG:HH12	1:TA:479:ARG:HH11	1.34	0.73
1:TA:591:PHE:HD1	1:TA:598:ILE:HD11	1.53	0.73
1:WA:20:ASP:O	1:WA:24:ASN:N	2.21	0.73
1:AB:591:PHE:HD1	1:AB:598:ILE:HD11	1.53	0.73
1:MB:477:ARG:HH12	1:MB:479:ARG:HH11	1.34	0.73
1:MB:549:LEU:HD11	1:MB:561:LEU:HD11	1.70	0.73
1:OB:32:PRO:CB	1:PB:24:ASN:HB3	2.16	0.73
1:RB:713:SER:OG	1:SB:707:LEU:HD12	1.87	0.73
1:SB:655:GLN:HE21	1:TB:649:ARG:CB	2.01	0.73
1:VB:62:ALA:HB2	1:VB:106:GLU:HG3	1.69	0.73
1:B:486:LEU:CB	1:D:476:LYS:NZ	2.40	0.73
1:C:813:ALA:HB1	1:E:811:ALA:HB1	1.68	0.73
1:D:9:ARG:CG	1:F:24:ASN:HB2	2.17	0.73
1:D:118:ASN:ND2	1:F:181:GLU:CA	2.50	0.73
1:D:666:THR:HG21	1:F:657:SER:HB2	1.70	0.73
1:F:62:ALA:HB2	1:F:106:GLU:HG3	1.69	0.73
1:H:549:LEU:HD11	1:H:561:LEU:HD11	1.70	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:591:PHE:HD1	1:M:598:ILE:HD11	1.53	0.73
1:N:651:ARG:O	1:N:653:ALA:N	2.21	0.73
1:FA:549:LEU:HD11	1:FA:561:LEU:HD11	1.70	0.73
1:MA:20:ASP:O	1:MA:24:ASN:N	2.21	0.73
1:PA:591:PHE:HD1	1:PA:598:ILE:HD11	1.53	0.73
1:XA:591:PHE:HD1	1:XA:598:ILE:HD11	1.53	0.73
1:LB:20:ASP:O	1:LB:24:ASN:N	2.21	0.73
1:LB:666:THR:HG22	1:MB:657:SER:OG	1.87	0.73
1:LB:706:LEU:HD22	1:MB:697:SER:CA	2.18	0.73
1:OB:169:LYS:NZ	1:PB:195:GLU:N	2.32	0.73
1:OB:404:SER:CB	1:PB:395:THR:O	2.36	0.73
1:UB:702:ALA:HB3	1:VB:693:ILE:CG1	2.18	0.73
1:WB:20:ASP:O	1:WB:24:ASN:N	2.21	0.73
1:A:727:GLU:CB	1:C:719:THR:HB	2.18	0.73
1:A:793:LYS:NZ	1:C:789:ASN:OD1	2.21	0.73
1:A:802:LEU:CD2	1:C:799:THR:HG21	2.18	0.73
1:D:12:PRO:CB	1:F:81:VAL:O	2.35	0.73
1:D:275:THR:HG21	1:F:296:LEU:CB	2.17	0.73
1:D:717:GLU:CG	1:F:707:LEU:CB	2.66	0.73
1:E:549:LEU:HD11	1:E:561:LEU:HD11	1.70	0.73
1:F:651:ARG:O	1:F:653:ALA:N	2.21	0.73
1:P:813:ALA:HB1	1:R:812:VAL:HA	1.69	0.73
1:P:815:PRO:HG3	1:R:815:PRO:C	2.07	0.73
1:Q:20:ASP:O	1:Q:24:ASN:N	2.21	0.73
1:S:62:ALA:HB2	1:S:106:GLU:HG3	1.69	0.73
1:S:477:ARG:HH12	1:S:479:ARG:HH11	1.34	0.73
1:V:591:PHE:HD1	1:V:598:ILE:HD11	1.53	0.73
1:W:477:ARG:HH12	1:W:479:ARG:HH11	1.34	0.73
1:FA:651:ARG:O	1:FA:653:ALA:N	2.21	0.73
1:KA:62:ALA:HB2	1:KA:106:GLU:HG3	1.69	0.73
1:NA:20:ASP:O	1:NA:24:ASN:N	2.21	0.73
1:WA:591:PHE:HD1	1:WA:598:ILE:HD11	1.53	0.73
1:XA:549:LEU:HD11	1:XA:561:LEU:HD11	1.70	0.73
1:AB:549:LEU:HD11	1:AB:561:LEU:HD11	1.70	0.73
1:DB:20:ASP:O	1:DB:24:ASN:N	2.21	0.73
1:FB:96:PRO:HD3	1:GB:85:HIS:NE2	2.02	0.73
1:IB:20:ASP:O	1:IB:24:ASN:N	2.21	0.73
1:IB:651:ARG:O	1:IB:653:ALA:N	2.21	0.73
1:LB:687:ARG:HH22	1:MB:679:ARG:CG	2.01	0.73
1:UB:687:ARG:HH21	1:VB:675:HIS:HB3	1.54	0.73
1:UB:742:LEU:HG	1:VB:737:GLY:HA3	1.70	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:20:ASP:O	1:D:24:ASN:N	2.21	0.73
1:D:62:ALA:HB2	1:D:106:GLU:HG3	1.69	0.73
1:D:364:GLU:HB3	1:F:339:PRO:HG3	1.69	0.73
1:D:651:ARG:O	1:D:653:ALA:N	2.21	0.73
1:K:38:GLN:HB2	1:UB:38:GLN:CG	2.19	0.73
1:L:798:MET:HE1	1:N:795:PHE:CD2	2.24	0.73
1:N:170:GLN:HB3	1:P:233:GLN:OE1	1.88	0.73
1:P:477:ARG:HH12	1:P:479:ARG:HH11	1.34	0.73
1:P:591:PHE:HD1	1:P:598:ILE:HD11	1.53	0.73
1:IA:591:PHE:HD1	1:IA:598:ILE:HD11	1.53	0.73
1:MA:651:ARG:O	1:MA:653:ALA:N	2.21	0.73
1:PA:20:ASP:O	1:PA:24:ASN:N	2.21	0.73
1:PA:62:ALA:HB2	1:PA:106:GLU:HG3	1.69	0.73
1:ZA:720:GLY:HA3	1:BB:711:ALA:CB	2.18	0.73
1:AB:20:ASP:O	1:AB:24:ASN:N	2.21	0.73
1:CB:549:LEU:HD11	1:CB:561:LEU:HD11	1.70	0.73
1:CB:591:PHE:HD1	1:CB:598:ILE:HD11	1.53	0.73
1:EB:591:PHE:HD1	1:EB:598:ILE:HD11	1.53	0.73
1:JB:549:LEU:HD11	1:JB:561:LEU:HD11	1.70	0.73
1:KB:549:LEU:HD11	1:KB:561:LEU:HD11	1.70	0.73
1:WB:651:ARG:O	1:WB:653:ALA:N	2.21	0.73
1:A:746:LEU:CD1	1:C:734:ARG:O	2.35	0.73
1:B:591:PHE:HD1	1:B:598:ILE:HD11	1.53	0.73
1:T:591:PHE:HD1	1:T:598:ILE:HD11	1.53	0.73
1:Z:20:ASP:O	1:Z:24:ASN:N	2.21	0.73
1:CA:20:ASP:O	1:CA:24:ASN:N	2.21	0.73
1:DA:651:ARG:O	1:DA:653:ALA:N	2.21	0.73
1:JA:549:LEU:HD11	1:JA:561:LEU:HD11	1.70	0.73
1:XA:62:ALA:HB2	1:XA:106:GLU:HG3	1.69	0.73
1:ZA:591:PHE:HD1	1:ZA:598:ILE:HD11	1.53	0.73
1:EB:20:ASP:O	1:EB:24:ASN:N	2.21	0.73
1:FB:20:ASP:O	1:FB:24:ASN:N	2.21	0.73
1:OB:549:LEU:HD11	1:OB:561:LEU:HD11	1.70	0.73
1:PB:20:ASP:O	1:PB:24:ASN:N	2.21	0.73
1:RB:278:PRO:HD3	1:SB:297:GLY:O	1.88	0.73
1:TB:20:ASP:O	1:TB:24:ASN:N	2.21	0.73
1:UB:749:GLN:HB3	1:VB:744:ALA:CB	2.18	0.73
1:XB:549:LEU:HD11	1:XB:561:LEU:HD11	1.70	0.73
1:ZB:753:ILE:HG21	1:AC:744:ALA:HA	1.71	0.73
1:A:746:LEU:C	1:C:741:VAL:CG2	2.57	0.73
1:D:114:VAL:HG23	1:F:140:GLY:H	1.52	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:662:ILE:HB	1:F:654:LEU:HD21	1.69	0.73
1:P:62:ALA:HB2	1:P:106:GLU:HG3	1.69	0.73
1:Q:477:ARG:HH12	1:Q:479:ARG:HH11	1.34	0.73
1:GA:20:ASP:O	1:GA:24:ASN:N	2.21	0.73
1:GA:591:PHE:HD1	1:GA:598:ILE:HD11	1.53	0.73
1:TA:20:ASP:O	1:TA:24:ASN:N	2.21	0.73
1:BB:20:ASP:O	1:BB:24:ASN:N	2.21	0.73
1:IB:62:ALA:HB2	1:IB:106:GLU:HG3	1.69	0.73
1:LB:681:GLU:HA	1:MB:675:HIS:CE1	2.23	0.73
1:UB:691:GLN:CB	1:VB:682:GLN:HG2	2.19	0.73
1:XB:651:ARG:O	1:XB:653:ALA:N	2.21	0.73
1:YB:20:ASP:O	1:YB:24:ASN:N	2.21	0.73
1:A:753:ILE:HD13	1:C:745:LYS:HG3	1.71	0.73
1:C:377:ARG:NH1	1:C:409:THR:O	2.20	0.73
1:D:381:PRO:CB	1:F:393:VAL:HA	2.19	0.73
1:E:20:ASP:O	1:E:24:ASN:N	2.21	0.73
1:G:651:ARG:O	1:G:653:ALA:N	2.21	0.73
1:I:20:ASP:O	1:I:24:ASN:N	2.21	0.73
1:L:20:ASP:O	1:L:24:ASN:N	2.21	0.73
1:N:377:ARG:NH1	1:N:409:THR:O	2.20	0.73
1:R:257:GLU:HB2	1:T:245:THR:OG1	1.88	0.73
1:AA:767:GLU:O	1:AA:770:LEU:HB3	1.89	0.73
1:CA:591:PHE:HD1	1:CA:598:ILE:HD11	1.53	0.73
1:EA:20:ASP:O	1:EA:24:ASN:N	2.21	0.73
1:JA:62:ALA:HB2	1:JA:106:GLU:HG3	1.69	0.73
1:RA:477:ARG:HH12	1:RA:479:ARG:HH11	1.34	0.73
1:SA:477:ARG:HH12	1:SA:479:ARG:HH11	1.34	0.73
1:BB:724:ALA:HB2	1:CB:714:MET:SD	2.28	0.73
1:JB:477:ARG:HH12	1:JB:479:ARG:HH11	1.34	0.73
1:LB:62:ALA:HB2	1:LB:106:GLU:HG3	1.69	0.73
1:RB:655:GLN:HG2	1:SB:649:ARG:HD3	1.70	0.73
1:VB:767:GLU:O	1:VB:770:LEU:HB3	1.89	0.73
1:A:549:LEU:HD11	1:A:561:LEU:HD11	1.70	0.73
1:A:706:LEU:HD21	1:C:693:ILE:O	1.88	0.73
1:A:768:MET:SD	1:C:759:LEU:C	2.66	0.73
1:D:327:SER:CB	1:F:355:ASP:HA	2.18	0.73
1:H:20:ASP:O	1:H:24:ASN:N	2.21	0.73
1:J:477:ARG:HH12	1:J:479:ARG:HH11	1.34	0.73
1:L:767:GLU:O	1:L:770:LEU:HB3	1.89	0.73
1:M:767:GLU:O	1:M:770:LEU:HB3	1.89	0.73
1:N:477:ARG:HH12	1:N:479:ARG:HH11	1.34	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:P:790:VAL:CG1	1:R:788:ALA:CB	2.66	0.73
1:R:549:LEU:HD11	1:R:561:LEU:HD11	1.70	0.73
1:V:68:ASP:HB2	1:V:74:LEU:HD11	1.71	0.73
1:BA:20:ASP:O	1:BA:24:ASN:N	2.21	0.73
1:IA:10:ILE:O	1:KA:24:ASN:ND2	2.17	0.73
1:JA:767:GLU:O	1:JA:770:LEU:HB3	1.89	0.73
1:MA:62:ALA:HB2	1:MA:106:GLU:HG3	1.69	0.73
1:QA:171:ASN:ND2	1:SA:245:THR:HG21	2.00	0.73
1:RA:20:ASP:O	1:RA:24:ASN:N	2.21	0.73
1:XA:20:ASP:O	1:XA:24:ASN:N	2.21	0.73
1:YA:377:ARG:NH1	1:YA:409:THR:O	2.20	0.73
1:ZA:549:LEU:HD11	1:ZA:561:LEU:HD11	1.70	0.73
1:IB:68:ASP:HB2	1:IB:74:LEU:HD11	1.71	0.73
1:KB:68:ASP:HB2	1:KB:74:LEU:HD11	1.71	0.73
1:OB:767:GLU:O	1:OB:770:LEU:HB3	1.89	0.73
1:VB:651:ARG:O	1:VB:653:ALA:N	2.21	0.73
1:A:764:LYS:HZ2	1:C:756:GLU:CB	2.00	0.73
1:C:767:GLU:O	1:C:770:LEU:HB3	1.89	0.73
1:D:9:ARG:HB3	1:F:24:ASN:ND2	2.03	0.73
1:D:325:VAL:HG22	1:F:353:ALA:HB1	1.69	0.73
1:G:767:GLU:O	1:G:770:LEU:HB3	1.89	0.73
1:H:68:ASP:HB2	1:H:74:LEU:HD11	1.71	0.73
1:H:591:PHE:HD1	1:H:598:ILE:HD11	1.53	0.73
1:I:68:ASP:HB2	1:I:74:LEU:HD11	1.71	0.73
1:M:20:ASP:O	1:M:24:ASN:N	2.21	0.73
1:N:767:GLU:O	1:N:770:LEU:HB3	1.89	0.73
1:S:591:PHE:HD1	1:S:598:ILE:HD11	1.53	0.73
1:T:767:GLU:O	1:T:770:LEU:HB3	1.89	0.73
1:V:549:LEU:HD11	1:V:561:LEU:HD11	1.70	0.73
1:V:651:ARG:O	1:V:653:ALA:N	2.21	0.73
1:W:549:LEU:HD11	1:W:561:LEU:HD11	1.70	0.73
1:Y:62:ALA:HB2	1:Y:106:GLU:HG3	1.69	0.73
1:DA:767:GLU:O	1:DA:770:LEU:HB3	1.89	0.73
1:EA:62:ALA:HB2	1:EA:106:GLU:HG3	1.69	0.73
1:KA:68:ASP:HB2	1:KA:74:LEU:HD11	1.71	0.73
1:LA:68:ASP:HB2	1:LA:74:LEU:HD11	1.71	0.73
1:OA:68:ASP:HB2	1:OA:74:LEU:HD11	1.71	0.73
1:UA:591:PHE:HD1	1:UA:598:ILE:HD11	1.53	0.73
1:XA:68:ASP:HB2	1:XA:74:LEU:HD11	1.71	0.73
1:ZA:767:GLU:O	1:ZA:770:LEU:HB3	1.89	0.73
1:BB:62:ALA:HB2	1:BB:106:GLU:HG3	1.69	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CB:767:GLU:O	1:CB:770:LEU:HB3	1.89	0.73
1:EB:477:ARG:HH12	1:EB:479:ARG:HH11	1.34	0.73
1:FB:592:HIS:CE1	1:GB:584:ALA:HB2	2.23	0.73
1:IB:477:ARG:HH12	1:IB:479:ARG:HH11	1.34	0.73
1:KB:591:PHE:HD1	1:KB:598:ILE:HD11	1.53	0.73
1:OB:20:ASP:O	1:OB:24:ASN:N	2.21	0.73
1:OB:651:ARG:O	1:OB:653:ALA:N	2.21	0.73
1:QB:767:GLU:O	1:QB:770:LEU:HB3	1.89	0.73
1:SB:20:ASP:O	1:SB:24:ASN:N	2.21	0.73
1:SB:68:ASP:HB2	1:SB:74:LEU:HD11	1.71	0.73
1:UB:709:LEU:HD13	1:VB:700:GLU:CB	2.10	0.73
1:YB:477:ARG:HH12	1:YB:479:ARG:HH11	1.34	0.73
1:A:753:ILE:CG2	1:C:744:ALA:C	2.57	0.73
1:A:768:MET:HE2	1:C:763:LYS:N	2.04	0.73
1:A:775:ALA:CB	1:C:770:LEU:CD1	2.67	0.73
1:D:51:VAL:HG23	1:F:85:HIS:C	2.09	0.73
1:J:20:ASP:O	1:J:24:ASN:N	2.21	0.73
1:L:118:ASN:ND2	1:N:192:THR:OG1	2.22	0.73
1:Q:767:GLU:O	1:Q:770:LEU:HB3	1.89	0.73
1:T:68:ASP:HB2	1:T:74:LEU:HD11	1.71	0.73
1:Z:767:GLU:O	1:Z:770:LEU:HB3	1.89	0.73
1:AA:20:ASP:O	1:AA:24:ASN:N	2.21	0.73
1:FA:591:PHE:HD1	1:FA:598:ILE:HD11	1.53	0.73
1:HA:767:GLU:O	1:HA:770:LEU:HB3	1.89	0.73
1:MA:549:LEU:HD11	1:MA:561:LEU:HD11	1.70	0.73
1:NA:549:LEU:HD11	1:NA:561:LEU:HD11	1.70	0.73
1:QA:224:LYS:HD2	1:SA:296:LEU:HD11	1.70	0.73
1:RA:68:ASP:HB2	1:RA:74:LEU:HD11	1.71	0.73
1:TA:717:GLU:HB2	1:VA:707:LEU:HD13	1.71	0.73
1:YA:767:GLU:O	1:YA:770:LEU:HB3	1.89	0.73
1:ZA:651:ARG:O	1:ZA:653:ALA:N	2.21	0.73
1:DB:549:LEU:HD11	1:DB:561:LEU:HD11	1.70	0.73
1:EB:62:ALA:HB2	1:EB:106:GLU:HG3	1.69	0.73
1:IB:377:ARG:NH1	1:IB:409:THR:O	2.20	0.73
1:JB:20:ASP:O	1:JB:24:ASN:N	2.21	0.73
1:LB:520:PRO:CD	1:MB:563:SER:HB3	2.18	0.73
1:MB:68:ASP:HB2	1:MB:74:LEU:HD11	1.71	0.73
1:MB:742:LEU:CD2	1:NB:734:ARG:HD3	2.18	0.73
1:PB:68:ASP:HB2	1:PB:74:LEU:HD11	1.71	0.73
1:UB:746:LEU:CD2	1:VB:741:VAL:HG23	2.19	0.73
1:VB:20:ASP:O	1:VB:24:ASN:N	2.21	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AC:767:GLU:O	1:AC:770:LEU:HB3	1.89	0.73
1:A:712:MET:HE3	1:C:704:LYS:HD2	1.70	0.72
1:A:790:VAL:HG22	1:C:785:GLN:HA	1.69	0.72
1:B:20:ASP:O	1:B:24:ASN:N	2.21	0.72
1:D:32:PRO:CD	1:F:76:ASP:HB2	2.10	0.72
1:D:202:GLY:CA	1:F:191:VAL:HG11	2.18	0.72
1:D:224:LYS:HD2	1:F:294:ASN:ND2	2.04	0.72
1:D:767:GLU:O	1:D:770:LEU:HB3	1.89	0.72
1:F:68:ASP:HB2	1:F:74:LEU:HD11	1.71	0.72
1:G:802:LEU:HD21	1:I:795:PHE:HE2	1.54	0.72
1:J:549:LEU:HD11	1:J:561:LEU:HD11	1.70	0.72
1:K:20:ASP:O	1:K:24:ASN:N	2.21	0.72
1:M:68:ASP:HB2	1:M:74:LEU:HD11	1.71	0.72
1:P:377:ARG:NH1	1:P:409:THR:O	2.20	0.72
1:T:477:ARG:HH12	1:T:479:ARG:HH11	1.34	0.72
1:W:767:GLU:O	1:W:770:LEU:HB3	1.89	0.72
1:AA:68:ASP:HB2	1:AA:74:LEU:HD11	1.71	0.72
1:BA:62:ALA:HB2	1:BA:106:GLU:HG3	1.69	0.72
1:BA:651:ARG:O	1:BA:653:ALA:N	2.21	0.72
1:CA:549:LEU:HD11	1:CA:561:LEU:HD11	1.70	0.72
1:OA:591:PHE:HD1	1:OA:598:ILE:HD11	1.53	0.72
1:QA:549:LEU:HD11	1:QA:561:LEU:HD11	1.70	0.72
1:QA:767:GLU:O	1:QA:770:LEU:HB3	1.89	0.72
1:VA:767:GLU:O	1:VA:770:LEU:HB3	1.89	0.72
1:WA:767:GLU:O	1:WA:770:LEU:HB3	1.89	0.72
1:CB:20:ASP:O	1:CB:24:ASN:N	2.21	0.72
1:CB:68:ASP:HB2	1:CB:74:LEU:HD11	1.71	0.72
1:FB:592:HIS:HD2	1:GB:584:ALA:O	1.70	0.72
1:GB:68:ASP:HB2	1:GB:74:LEU:HD11	1.71	0.72
1:GB:767:GLU:O	1:GB:770:LEU:HB3	1.89	0.72
1:HB:68:ASP:HB2	1:HB:74:LEU:HD11	1.71	0.72
1:LB:461:ARG:HH11	1:MB:494:GLN:HG3	1.53	0.72
1:MB:20:ASP:O	1:MB:24:ASN:N	2.21	0.72
1:NB:651:ARG:O	1:NB:653:ALA:N	2.21	0.72
1:RB:591:PHE:HD1	1:RB:598:ILE:HD11	1.53	0.72
1:TB:779:LEU:CD1	1:UB:770:LEU:HD11	2.18	0.72
1:UB:68:ASP:HB2	1:UB:74:LEU:HD11	1.71	0.72
1:VB:549:LEU:HD11	1:VB:561:LEU:HD11	1.70	0.72
1:WB:68:ASP:HB2	1:WB:74:LEU:HD11	1.71	0.72
1:A:591:PHE:HD1	1:A:598:ILE:HD11	1.53	0.72
1:A:651:ARG:O	1:A:653:ALA:N	2.21	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:477:ARG:HH12	1:B:479:ARG:HH11	1.34	0.72
1:D:49:ARG:NH1	1:F:83:LEU:HD12	2.04	0.72
1:D:549:LEU:HD11	1:D:561:LEU:HD11	1.70	0.72
1:K:651:ARG:O	1:K:653:ALA:N	2.21	0.72
1:L:377:ARG:NH1	1:L:409:THR:O	2.20	0.72
1:O:20:ASP:O	1:O:24:ASN:N	2.21	0.72
1:P:68:ASP:HB2	1:P:74:LEU:HD11	1.71	0.72
1:R:651:ARG:O	1:R:653:ALA:N	2.21	0.72
1:V:62:ALA:HB2	1:V:106:GLU:HG3	1.69	0.72
1:W:68:ASP:HB2	1:W:74:LEU:HD11	1.71	0.72
1:Y:767:GLU:O	1:Y:770:LEU:HB3	1.89	0.72
1:BA:591:PHE:HD1	1:BA:598:ILE:HD11	1.53	0.72
1:CA:68:ASP:HB2	1:CA:74:LEU:HD11	1.71	0.72
1:DA:591:PHE:HD1	1:DA:598:ILE:HD11	1.53	0.72
1:GA:549:LEU:HD11	1:GA:561:LEU:HD11	1.70	0.72
1:IA:673:ALA:HB1	1:KA:664:ILE:HD12	1.70	0.72
1:KA:651:ARG:O	1:KA:653:ALA:N	2.21	0.72
1:MA:68:ASP:HB2	1:MA:74:LEU:HD11	1.71	0.72
1:PA:767:GLU:O	1:PA:770:LEU:HB3	1.89	0.72
1:SA:20:ASP:O	1:SA:24:ASN:N	2.21	0.72
1:TA:68:ASP:HB2	1:TA:74:LEU:HD11	1.71	0.72
1:TA:767:GLU:O	1:TA:770:LEU:HB3	1.89	0.72
1:XA:651:ARG:O	1:XA:653:ALA:N	2.21	0.72
1:AB:377:ARG:NH1	1:AB:409:THR:O	2.20	0.72
1:AB:651:ARG:O	1:AB:653:ALA:N	2.21	0.72
1:FB:591:PHE:HD1	1:FB:598:ILE:HD11	1.53	0.72
1:GB:20:ASP:O	1:GB:24:ASN:N	2.21	0.72
1:GB:591:PHE:HD1	1:GB:598:ILE:HD11	1.53	0.72
1:HB:20:ASP:O	1:HB:24:ASN:N	2.21	0.72
1:JB:68:ASP:HB2	1:JB:74:LEU:HD11	1.71	0.72
1:LB:477:ARG:HH12	1:LB:479:ARG:HH11	1.34	0.72
1:NB:549:LEU:HD11	1:NB:561:LEU:HD11	1.70	0.72
1:PB:377:ARG:NH1	1:PB:409:THR:O	2.20	0.72
1:QB:549:LEU:HD11	1:QB:561:LEU:HD11	1.70	0.72
1:TB:651:ARG:O	1:TB:653:ALA:N	2.21	0.72
1:XB:68:ASP:HB2	1:XB:74:LEU:HD11	1.71	0.72
1:XB:477:ARG:HH12	1:XB:479:ARG:HH11	1.34	0.72
1:B:693:ILE:HG23	1:AC:706:LEU:HD21	1.66	0.72
1:E:377:ARG:NH1	1:E:409:THR:O	2.20	0.72
1:G:20:ASP:O	1:G:24:ASN:N	2.21	0.72
1:I:767:GLU:O	1:I:770:LEU:HB3	1.89	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:56:ARG:HB2	1:N:127:LEU:HD22	1.72	0.72
1:N:68:ASP:HB2	1:N:74:LEU:HD11	1.71	0.72
1:R:20:ASP:O	1:R:24:ASN:N	2.21	0.72
1:V:767:GLU:O	1:V:770:LEU:HB3	1.89	0.72
1:W:20:ASP:O	1:W:24:ASN:N	2.21	0.72
1:Z:549:LEU:HD11	1:Z:561:LEU:HD11	1.70	0.72
1:FA:20:ASP:O	1:FA:24:ASN:N	2.21	0.72
1:GA:377:ARG:NH1	1:GA:409:THR:O	2.20	0.72
1:IA:20:ASP:O	1:IA:24:ASN:N	2.21	0.72
1:KA:767:GLU:O	1:KA:770:LEU:HB3	1.89	0.72
1:VA:549:LEU:HD11	1:VA:561:LEU:HD11	1.70	0.72
1:YA:549:LEU:HD11	1:YA:561:LEU:HD11	1.70	0.72
1:ZA:68:ASP:HB2	1:ZA:74:LEU:HD11	1.71	0.72
1:BB:724:ALA:HB1	1:CB:714:MET:SD	2.30	0.72
1:CB:651:ARG:O	1:CB:653:ALA:N	2.21	0.72
1:FB:592:HIS:NE2	1:GB:584:ALA:HB1	2.01	0.72
1:KB:767:GLU:O	1:KB:770:LEU:HB3	1.89	0.72
1:MB:767:GLU:O	1:MB:770:LEU:HB3	1.89	0.72
1:RB:767:GLU:O	1:RB:770:LEU:HB3	1.89	0.72
1:SB:767:GLU:O	1:SB:770:LEU:HB3	1.89	0.72
1:ZB:20:ASP:O	1:ZB:24:ASN:N	2.21	0.72
1:A:772:TYR:CG	1:C:766:ARG:HB3	2.20	0.72
1:B:665:THR:HG21	1:D:589:ASP:CB	2.13	0.72
1:C:786:GLN:O	1:E:781:VAL:HG13	1.89	0.72
1:F:20:ASP:O	1:F:24:ASN:N	2.21	0.72
1:G:591:PHE:HD1	1:G:598:ILE:HD11	1.53	0.72
1:H:775:ALA:CB	1:J:770:LEU:HD12	2.19	0.72
1:K:549:LEU:HD11	1:K:561:LEU:HD11	1.70	0.72
1:L:591:PHE:HD1	1:L:598:ILE:HD11	1.53	0.72
1:AA:377:ARG:NH1	1:AA:409:THR:O	2.20	0.72
1:DA:549:LEU:HD11	1:DA:561:LEU:HD11	1.70	0.72
1:DA:587:THR:HG23	1:DA:590:ASP:H	1.55	0.72
1:GA:587:THR:HG23	1:GA:590:ASP:H	1.55	0.72
1:KA:20:ASP:O	1:KA:24:ASN:N	2.21	0.72
1:PA:587:THR:HG23	1:PA:590:ASP:H	1.55	0.72
1:SA:62:ALA:HB2	1:SA:106:GLU:HG3	1.69	0.72
1:SA:767:GLU:O	1:SA:770:LEU:HB3	1.89	0.72
1:DB:68:ASP:HB2	1:DB:74:LEU:HD11	1.71	0.72
1:FB:713:SER:OG	1:GB:704:LYS:HA	1.89	0.72
1:FB:767:GLU:O	1:FB:770:LEU:HB3	1.89	0.72
1:WB:549:LEU:HD11	1:WB:561:LEU:HD11	1.70	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AC:549:LEU:HD11	1:AC:561:LEU:HD11	1.70	0.72
1:C:68:ASP:HB2	1:C:74:LEU:HD11	1.71	0.72
1:D:542:ALA:HB1	1:F:573:LYS:HZ1	1.52	0.72
1:L:477:ARG:HH12	1:L:479:ARG:HH11	1.34	0.72
1:R:767:GLU:O	1:R:770:LEU:HB3	1.89	0.72
1:W:591:PHE:HD1	1:W:598:ILE:HD11	1.53	0.72
1:X:587:THR:HG23	1:X:590:ASP:H	1.55	0.72
1:Z:477:ARG:HH12	1:Z:479:ARG:HH11	1.34	0.72
1:CA:587:THR:HG23	1:CA:590:ASP:H	1.55	0.72
1:IA:595:SER:HB2	1:KA:580:ARG:HH12	1.53	0.72
1:IA:767:GLU:O	1:IA:770:LEU:HB3	1.89	0.72
1:MA:706:LEU:CD2	1:OA:693:ILE:HG23	2.18	0.72
1:NA:68:ASP:HB2	1:NA:74:LEU:HD11	1.71	0.72
1:RA:767:GLU:O	1:RA:770:LEU:HB3	1.89	0.72
1:BB:591:PHE:HD1	1:BB:598:ILE:HD11	1.53	0.72
1:NB:767:GLU:O	1:NB:770:LEU:HB3	1.89	0.72
1:OB:520:PRO:HB2	1:PB:564:VAL:HB	1.70	0.72
1:OB:591:PHE:HD1	1:OB:598:ILE:HD11	1.53	0.72
1:QB:68:ASP:HB2	1:QB:74:LEU:HD11	1.71	0.72
1:QB:587:THR:HG23	1:QB:590:ASP:H	1.55	0.72
1:UB:477:ARG:HH12	1:UB:479:ARG:HH11	1.34	0.72
1:UB:591:PHE:HD1	1:UB:598:ILE:HD11	1.53	0.72
1:UB:767:GLU:O	1:UB:770:LEU:HB3	1.89	0.72
1:A:767:GLU:O	1:A:770:LEU:HB3	1.89	0.72
1:C:20:ASP:O	1:C:24:ASN:N	2.21	0.72
1:D:114:VAL:CG2	1:F:140:GLY:H	2.00	0.72
1:D:149:GLY:O	1:F:138:MET:CG	2.36	0.72
1:F:767:GLU:O	1:F:770:LEU:HB3	1.89	0.72
1:K:587:THR:HG23	1:K:590:ASP:H	1.55	0.72
1:O:68:ASP:HB2	1:O:74:LEU:HD11	1.71	0.72
1:X:477:ARG:HH12	1:X:479:ARG:HH11	1.34	0.72
1:X:549:LEU:HD11	1:X:561:LEU:HD11	1.70	0.72
1:X:767:GLU:O	1:X:770:LEU:HB3	1.89	0.72
1:EA:477:ARG:HH12	1:EA:479:ARG:HH11	1.34	0.72
1:IA:68:ASP:HB2	1:IA:74:LEU:HD11	1.71	0.72
1:QA:68:ASP:HB2	1:QA:74:LEU:HD11	1.71	0.72
1:DB:651:ARG:O	1:DB:653:ALA:N	2.21	0.72
1:GB:587:THR:HG23	1:GB:590:ASP:H	1.55	0.72
1:LB:68:ASP:HB2	1:LB:74:LEU:HD11	1.71	0.72
1:LB:666:THR:CG2	1:MB:657:SER:CB	2.67	0.72
1:QB:813:ALA:HB1	1:RB:811:ALA:HB1	1.71	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:TB:377:ARG:NH1	1:TB:409:THR:O	2.20	0.72
1:TB:549:LEU:HD11	1:TB:561:LEU:HD11	1.70	0.72
1:TB:767:GLU:O	1:TB:770:LEU:HB3	1.89	0.72
1:VB:591:PHE:HD1	1:VB:598:ILE:HD11	1.53	0.72
1:WB:62:ALA:HB2	1:WB:106:GLU:HG3	1.69	0.72
1:ZB:62:ALA:HB2	1:ZB:106:GLU:HG3	1.69	0.72
1:B:587:THR:HG23	1:B:590:ASP:H	1.55	0.72
1:B:651:ARG:O	1:B:653:ALA:N	2.21	0.72
1:D:587:THR:HG23	1:D:590:ASP:H	1.55	0.72
1:D:655:GLN:NE2	1:F:650:THR:OG1	2.23	0.72
1:I:549:LEU:HD11	1:I:561:LEU:HD11	1.70	0.72
1:L:549:LEU:HD11	1:L:561:LEU:HD11	1.70	0.72
1:P:767:GLU:O	1:P:770:LEU:HB3	1.89	0.72
1:S:587:THR:HG23	1:S:590:ASP:H	1.55	0.72
1:OA:767:GLU:O	1:OA:770:LEU:HB3	1.89	0.72
1:TA:651:ARG:O	1:TA:653:ALA:N	2.21	0.72
1:UA:767:GLU:O	1:UA:770:LEU:HB3	1.89	0.72
1:XA:767:GLU:O	1:XA:770:LEU:HB3	1.89	0.72
1:AB:68:ASP:HB2	1:AB:74:LEU:HD11	1.71	0.72
1:AB:587:THR:HG23	1:AB:590:ASP:H	1.55	0.72
1:FB:549:LEU:HD11	1:FB:561:LEU:HD11	1.70	0.72
1:IB:767:GLU:O	1:IB:770:LEU:HB3	1.89	0.72
1:YB:767:GLU:O	1:YB:770:LEU:HB3	1.89	0.72
1:ZB:742:LEU:CD2	1:AC:734:ARG:NH2	2.52	0.72
1:A:742:LEU:HB3	1:C:734:ARG:NE	2.03	0.72
1:A:772:TYR:CE1	1:C:766:ARG:HB3	2.21	0.72
1:D:68:ASP:HB2	1:D:74:LEU:HD11	1.71	0.72
1:D:149:GLY:C	1:F:138:MET:HG3	2.08	0.72
1:D:591:PHE:HD1	1:D:598:ILE:HD11	1.53	0.72
1:D:592:HIS:CG	1:F:584:ALA:HB1	2.24	0.72
1:J:587:THR:HG23	1:J:590:ASP:H	1.55	0.72
1:L:587:THR:HG23	1:L:590:ASP:H	1.55	0.72
1:L:651:ARG:O	1:L:653:ALA:N	2.21	0.72
1:N:20:ASP:O	1:N:24:ASN:N	2.21	0.72
1:P:20:ASP:O	1:P:24:ASN:N	2.21	0.72
1:R:587:THR:HG23	1:R:590:ASP:H	1.55	0.72
1:S:767:GLU:O	1:S:770:LEU:HB3	1.89	0.72
1:DA:20:ASP:O	1:DA:24:ASN:N	2.21	0.72
1:EA:587:THR:HG23	1:EA:590:ASP:H	1.55	0.72
1:EA:767:GLU:O	1:EA:770:LEU:HB3	1.89	0.72
1:GA:767:GLU:O	1:GA:770:LEU:HB3	1.89	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:IA:148:PRO:CB	1:KA:138:MET:HE1	2.20	0.72
1:IA:275:THR:HG21	1:KA:296:LEU:CD2	2.19	0.72
1:SA:68:ASP:HB2	1:SA:74:LEU:HD11	1.71	0.72
1:TA:549:LEU:HD11	1:TA:561:LEU:HD11	1.70	0.72
1:VA:20:ASP:O	1:VA:24:ASN:N	2.21	0.72
1:DB:587:THR:HG23	1:DB:590:ASP:H	1.55	0.72
1:EB:587:THR:HG23	1:EB:590:ASP:H	1.55	0.72
1:FB:587:THR:HG23	1:FB:590:ASP:H	1.55	0.72
1:HB:651:ARG:O	1:HB:653:ALA:N	2.21	0.72
1:IB:549:LEU:HD11	1:IB:561:LEU:HD11	1.70	0.72
1:LB:706:LEU:HD22	1:MB:697:SER:CB	2.20	0.72
1:LB:713:SER:CB	1:MB:704:LYS:CA	2.65	0.72
1:PB:651:ARG:O	1:PB:653:ALA:N	2.21	0.72
1:PB:767:GLU:O	1:PB:770:LEU:HB3	1.89	0.72
1:RB:68:ASP:HB2	1:RB:74:LEU:HD11	1.71	0.72
1:RB:549:LEU:HD11	1:RB:561:LEU:HD11	1.70	0.72
1:SB:587:THR:HG23	1:SB:590:ASP:H	1.55	0.72
1:TB:68:ASP:HB2	1:TB:74:LEU:HD11	1.71	0.72
1:VB:477:ARG:HH12	1:VB:479:ARG:HH11	1.34	0.72
1:XB:20:ASP:O	1:XB:24:ASN:N	2.21	0.72
1:ZB:68:ASP:HB2	1:ZB:74:LEU:HD11	1.71	0.72
1:AC:68:ASP:HB2	1:AC:74:LEU:HD11	1.71	0.72
1:A:749:GLN:HB3	1:C:745:LYS:HZ2	1.55	0.72
1:C:539:LEU:HD12	1:C:640:VAL:HG21	1.72	0.72
1:C:765:VAL:HG11	1:E:755:THR:O	1.88	0.72
1:D:171:ASN:HD21	1:F:234:ASN:CA	2.02	0.72
1:J:767:GLU:O	1:J:770:LEU:HB3	1.89	0.72
1:M:377:ARG:NH1	1:M:409:THR:O	2.20	0.72
1:M:587:THR:HG23	1:M:590:ASP:H	1.55	0.72
1:O:549:LEU:HD11	1:O:561:LEU:HD11	1.70	0.72
1:S:68:ASP:HB2	1:S:74:LEU:HD11	1.71	0.72
1:Y:539:LEU:HD12	1:Y:640:VAL:HG21	1.72	0.72
1:AA:651:ARG:O	1:AA:653:ALA:N	2.21	0.72
1:DA:377:ARG:NH1	1:DA:409:THR:O	2.20	0.72
1:FA:587:THR:HG23	1:FA:590:ASP:H	1.55	0.72
1:GA:539:LEU:HD12	1:GA:640:VAL:HG21	1.72	0.72
1:UA:651:ARG:O	1:UA:653:ALA:N	2.21	0.72
1:XA:587:THR:HG23	1:XA:590:ASP:H	1.55	0.72
1:YA:20:ASP:O	1:YA:24:ASN:N	2.21	0.72
1:FB:68:ASP:HB2	1:FB:74:LEU:HD11	1.71	0.72
1:JB:767:GLU:O	1:JB:770:LEU:HB3	1.89	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:LB:549:LEU:HD11	1:LB:561:LEU:HD11	1.70	0.72
1:LB:767:GLU:O	1:LB:770:LEU:HB3	1.89	0.72
1:PB:549:LEU:HD11	1:PB:561:LEU:HD11	1.70	0.72
1:RB:640:VAL:HG13	1:SB:580:ARG:NH2	2.05	0.72
1:YB:68:ASP:HB2	1:YB:74:LEU:HD11	1.71	0.72
1:ZB:742:LEU:HB3	1:AC:734:ARG:NH2	2.00	0.72
1:ZB:767:GLU:O	1:ZB:770:LEU:HB3	1.89	0.72
1:B:549:LEU:HD11	1:B:561:LEU:HD11	1.70	0.72
1:C:651:ARG:O	1:C:653:ALA:N	2.21	0.72
1:D:362:PRO:C	1:F:352:GLN:HE21	1.92	0.72
1:P:539:LEU:HD12	1:P:640:VAL:HG21	1.72	0.72
1:R:477:ARG:HH12	1:R:479:ARG:HH11	1.34	0.72
1:W:651:ARG:O	1:W:653:ALA:N	2.21	0.72
1:Z:539:LEU:HD12	1:Z:640:VAL:HG21	1.72	0.72
1:AA:587:THR:HG23	1:AA:590:ASP:H	1.55	0.72
1:CA:651:ARG:O	1:CA:653:ALA:N	2.21	0.72
1:IA:278:PRO:HD3	1:KA:298:GLN:HA	1.71	0.72
1:JA:68:ASP:HB2	1:JA:74:LEU:HD11	1.71	0.72
1:RA:32:PRO:HB2	1:TA:24:ASN:HD22	1.54	0.72
1:WA:549:LEU:HD11	1:WA:561:LEU:HD11	1.70	0.72
1:BB:539:LEU:HD12	1:BB:640:VAL:HG21	1.72	0.72
1:EB:767:GLU:O	1:EB:770:LEU:HB3	1.89	0.72
1:HB:587:THR:HG23	1:HB:590:ASP:H	1.55	0.72
1:IB:587:THR:HG23	1:IB:590:ASP:H	1.55	0.72
1:KB:20:ASP:O	1:KB:24:ASN:N	2.21	0.72
1:LB:539:LEU:HD12	1:LB:640:VAL:HG21	1.72	0.72
1:NB:68:ASP:HB2	1:NB:74:LEU:HD11	1.71	0.72
1:PB:587:THR:HG23	1:PB:590:ASP:H	1.55	0.72
1:SB:651:ARG:O	1:SB:653:ALA:N	2.21	0.72
1:UB:549:LEU:HD11	1:UB:561:LEU:HD11	1.70	0.72
1:UB:587:THR:HG23	1:UB:590:ASP:H	1.55	0.72
1:WB:587:THR:HG23	1:WB:590:ASP:H	1.55	0.72
1:A:697:SER:OG	1:NB:706:LEU:CD2	2.38	0.71
1:B:486:LEU:N	1:D:476:LYS:HZ3	1.88	0.71
1:D:117:PRO:HG2	1:F:180:LYS:HE3	1.70	0.71
1:D:257:GLU:HB2	1:F:244:ARG:NE	2.04	0.71
1:E:587:THR:HG23	1:E:590:ASP:H	1.55	0.71
1:G:539:LEU:HD12	1:G:640:VAL:HG21	1.72	0.71
1:H:767:GLU:O	1:H:770:LEU:HB3	1.89	0.71
1:I:651:ARG:O	1:I:653:ALA:N	2.21	0.71
1:J:539:LEU:HD12	1:J:640:VAL:HG21	1.72	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:O:587:THR:HG23	1:O:590:ASP:H	1.55	0.71
1:Q:539:LEU:HD12	1:Q:640:VAL:HG21	1.72	0.71
1:X:20:ASP:O	1:X:24:ASN:N	2.21	0.71
1:IA:539:LEU:HD12	1:IA:640:VAL:HG21	1.72	0.71
1:IA:587:THR:HG23	1:IA:590:ASP:H	1.55	0.71
1:LA:20:ASP:O	1:LA:24:ASN:N	2.21	0.71
1:NA:539:LEU:HD12	1:NA:640:VAL:HG21	1.72	0.71
1:QA:539:LEU:HD12	1:QA:640:VAL:HG21	1.72	0.71
1:QA:587:THR:HG23	1:QA:590:ASP:H	1.55	0.71
1:TA:539:LEU:HD12	1:TA:640:VAL:HG21	1.72	0.71
1:CB:539:LEU:HD12	1:CB:640:VAL:HG21	1.72	0.71
1:FB:539:LEU:HD12	1:FB:640:VAL:HG21	1.72	0.71
1:MB:587:THR:HG23	1:MB:590:ASP:H	1.55	0.71
1:PB:539:LEU:HD12	1:PB:640:VAL:HG21	1.72	0.71
1:RB:539:LEU:HD12	1:RB:640:VAL:HG21	1.72	0.71
1:SB:539:LEU:HD12	1:SB:640:VAL:HG21	1.72	0.71
1:ZB:587:THR:HG23	1:ZB:590:ASP:H	1.55	0.71
1:AC:20:ASP:O	1:AC:24:ASN:N	2.21	0.71
1:A:377:ARG:NH1	1:A:409:THR:O	2.20	0.71
1:A:697:SER:OG	1:NB:706:LEU:HD22	1.89	0.71
1:A:744:ALA:HB1	1:NB:754:GLU:CG	2.18	0.71
1:B:68:ASP:HB2	1:B:74:LEU:HD11	1.71	0.71
1:B:234:ASN:HD21	1:AC:171:ASN:HD21	1.38	0.71
1:C:549:LEU:HD11	1:C:561:LEU:HD11	1.70	0.71
1:I:587:THR:HG23	1:I:590:ASP:H	1.55	0.71
1:J:68:ASP:HB2	1:J:74:LEU:HD11	1.71	0.71
1:M:539:LEU:HD12	1:M:640:VAL:HG21	1.72	0.71
1:O:539:LEU:HD12	1:O:640:VAL:HG21	1.72	0.71
1:P:549:LEU:HD11	1:P:561:LEU:HD11	1.70	0.71
1:S:20:ASP:O	1:S:24:ASN:N	2.21	0.71
1:Y:20:ASP:O	1:Y:24:ASN:N	2.21	0.71
1:Y:549:LEU:HD11	1:Y:561:LEU:HD11	1.70	0.71
1:Z:651:ARG:O	1:Z:653:ALA:N	2.21	0.71
1:AA:539:LEU:HD12	1:AA:640:VAL:HG21	1.72	0.71
1:BA:377:ARG:NH1	1:BA:409:THR:O	2.20	0.71
1:FA:767:GLU:O	1:FA:770:LEU:HB3	1.89	0.71
1:JA:20:ASP:O	1:JA:24:ASN:N	2.21	0.71
1:KA:587:THR:HG23	1:KA:590:ASP:H	1.55	0.71
1:LA:767:GLU:O	1:LA:770:LEU:HB3	1.89	0.71
1:NA:767:GLU:O	1:NA:770:LEU:HB3	1.89	0.71
1:OA:20:ASP:O	1:OA:24:ASN:N	2.21	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:PA:549:LEU:HD11	1:PA:561:LEU:HD11	1.70	0.71
1:SA:651:ARG:O	1:SA:653:ALA:N	2.21	0.71
1:UA:20:ASP:O	1:UA:24:ASN:N	2.21	0.71
1:VA:587:THR:HG23	1:VA:590:ASP:H	1.55	0.71
1:WA:68:ASP:HB2	1:WA:74:LEU:HD11	1.71	0.71
1:ZA:20:ASP:O	1:ZA:24:ASN:N	2.21	0.71
1:BB:767:GLU:O	1:BB:770:LEU:HB3	1.89	0.71
1:HB:767:GLU:O	1:HB:770:LEU:HB3	1.89	0.71
1:LB:587:THR:HG23	1:LB:590:ASP:H	1.55	0.71
1:RB:651:ARG:O	1:RB:653:ALA:N	2.21	0.71
1:RB:790:VAL:HG13	1:SB:788:ALA:HB2	1.71	0.71
1:TB:539:LEU:HD12	1:TB:640:VAL:HG21	1.72	0.71
1:XB:539:LEU:HD12	1:XB:640:VAL:HG21	1.72	0.71
1:YB:651:ARG:O	1:YB:653:ALA:N	2.21	0.71
1:A:779:LEU:HD21	1:C:770:LEU:HA	1.70	0.71
1:C:743:GLN:CG	1:E:734:ARG:HH21	2.04	0.71
1:C:775:ALA:CB	1:E:770:LEU:HD13	2.13	0.71
1:D:56:ARG:CB	1:F:128:ASP:HB3	2.18	0.71
1:D:220:ILE:CB	1:F:245:THR:O	2.38	0.71
1:D:461:ARG:HB2	1:F:473:TYR:CD2	2.26	0.71
1:D:706:LEU:CD1	1:F:697:SER:OG	2.38	0.71
1:H:539:LEU:HD12	1:H:640:VAL:HG21	1.72	0.71
1:P:587:THR:HG23	1:P:590:ASP:H	1.55	0.71
1:S:549:LEU:HD11	1:S:561:LEU:HD11	1.70	0.71
1:X:68:ASP:HB2	1:X:74:LEU:HD11	1.71	0.71
1:X:539:LEU:HD12	1:X:640:VAL:HG21	1.72	0.71
1:X:651:ARG:O	1:X:653:ALA:N	2.21	0.71
1:Z:587:THR:HG23	1:Z:590:ASP:H	1.55	0.71
1:BA:539:LEU:HD12	1:BA:640:VAL:HG21	1.72	0.71
1:IA:484:PRO:HG2	1:KA:471:TYR:CD2	2.24	0.71
1:IA:520:PRO:HG2	1:KA:563:SER:HB3	1.71	0.71
1:RA:591:PHE:HD1	1:RA:598:ILE:HD11	1.53	0.71
1:WA:539:LEU:HD12	1:WA:640:VAL:HG21	1.72	0.71
1:WA:651:ARG:O	1:WA:653:ALA:N	2.21	0.71
1:IB:539:LEU:HD12	1:IB:640:VAL:HG21	1.72	0.71
1:MB:764:LYS:NZ	1:NB:752:ALA:O	2.22	0.71
1:NB:587:THR:HG23	1:NB:590:ASP:H	1.55	0.71
1:OB:68:ASP:HB2	1:OB:74:LEU:HD11	1.71	0.71
1:OB:118:ASN:HD21	1:PB:180:LYS:CB	2.03	0.71
1:RB:20:ASP:O	1:RB:24:ASN:N	2.21	0.71
1:TB:587:THR:HG23	1:TB:590:ASP:H	1.55	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:UB:768:MET:HE1	1:VB:766:ARG:CB	2.18	0.71
1:WB:539:LEU:HD12	1:WB:640:VAL:HG21	1.72	0.71
1:WB:767:GLU:O	1:WB:770:LEU:HB3	1.89	0.71
1:AC:651:ARG:O	1:AC:653:ALA:N	2.21	0.71
1:A:728:SER:CA	1:C:722:ALA:HB3	2.19	0.71
1:C:794:LYS:HD3	1:E:788:ALA:CA	2.20	0.71
1:D:539:LEU:HD12	1:D:640:VAL:HG21	1.72	0.71
1:E:767:GLU:O	1:E:770:LEU:HB3	1.89	0.71
1:L:813:ALA:CB	1:N:811:ALA:C	2.59	0.71
1:N:539:LEU:HD12	1:N:640:VAL:HG21	1.72	0.71
1:Q:651:ARG:O	1:Q:653:ALA:N	2.21	0.71
1:S:651:ARG:O	1:S:653:ALA:N	2.21	0.71
1:GA:68:ASP:HB2	1:GA:74:LEU:HD11	1.71	0.71
1:SA:539:LEU:HD12	1:SA:640:VAL:HG21	1.72	0.71
1:SA:549:LEU:HD11	1:SA:561:LEU:HD11	1.70	0.71
1:UA:587:THR:HG23	1:UA:590:ASP:H	1.55	0.71
1:YA:587:THR:HG23	1:YA:590:ASP:H	1.55	0.71
1:EB:539:LEU:HD12	1:EB:640:VAL:HG21	1.72	0.71
1:HB:549:LEU:HD11	1:HB:561:LEU:HD11	1.70	0.71
1:MB:651:ARG:O	1:MB:653:ALA:N	2.21	0.71
1:NB:20:ASP:O	1:NB:24:ASN:N	2.21	0.71
1:QB:651:ARG:O	1:QB:653:ALA:N	2.21	0.71
1:WB:465:ASN:ND2	1:XB:563:SER:HA	2.06	0.71
1:XB:767:GLU:O	1:XB:770:LEU:HB3	1.89	0.71
1:A:746:LEU:HD13	1:C:738:GLU:H	1.54	0.71
1:B:385:ASN:HD21	1:D:476:LYS:HE3	1.52	0.71
1:K:767:GLU:O	1:K:770:LEU:HB3	1.89	0.71
1:T:20:ASP:O	1:T:24:ASN:N	2.21	0.71
1:V:539:LEU:HD12	1:V:640:VAL:HG21	1.72	0.71
1:JA:587:THR:HG23	1:JA:590:ASP:H	1.55	0.71
1:MA:767:GLU:O	1:MA:770:LEU:HB3	1.89	0.71
1:TA:587:THR:HG23	1:TA:590:ASP:H	1.55	0.71
1:CB:587:THR:HG23	1:CB:590:ASP:H	1.55	0.71
1:EB:720:GLY:HA3	1:FB:711:ALA:CB	2.18	0.71
1:QB:20:ASP:O	1:QB:24:ASN:N	2.21	0.71
1:VB:539:LEU:HD12	1:VB:640:VAL:HG21	1.72	0.71
1:VB:761:ARG:CG	1:WB:755:THR:OG1	2.38	0.71
1:XB:587:THR:HG23	1:XB:590:ASP:H	1.55	0.71
1:A:68:ASP:HB2	1:A:74:LEU:HD11	1.71	0.71
1:A:539:LEU:HD12	1:A:640:VAL:HG21	1.72	0.71
1:G:68:ASP:HB2	1:G:74:LEU:HD11	1.71	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:651:ARG:O	1:M:653:ALA:N	2.21	0.71
1:Q:68:ASP:HB2	1:Q:74:LEU:HD11	1.71	0.71
1:S:539:LEU:HD12	1:S:640:VAL:HG21	1.72	0.71
1:BA:767:GLU:O	1:BA:770:LEU:HB3	1.89	0.71
1:LA:591:PHE:HD1	1:LA:598:ILE:HD11	1.53	0.71
1:MA:377:ARG:NH1	1:MA:409:THR:O	2.20	0.71
1:NA:651:ARG:O	1:NA:653:ALA:N	2.21	0.71
1:VA:539:LEU:HD12	1:VA:640:VAL:HG21	1.72	0.71
1:YA:68:ASP:HB2	1:YA:74:LEU:HD11	1.71	0.71
1:BB:742:LEU:HD23	1:CB:734:ARG:HE	1.55	0.71
1:CB:377:ARG:NH1	1:CB:409:THR:O	2.20	0.71
1:OB:278:PRO:CD	1:PB:299:LYS:HE3	2.19	0.71
1:UB:20:ASP:O	1:UB:24:ASN:N	2.21	0.71
1:UB:377:ARG:NH1	1:UB:409:THR:O	2.20	0.71
1:VB:750:ALA:HA	1:WB:744:ALA:HB1	1.73	0.71
1:YB:539:LEU:HD12	1:YB:640:VAL:HG21	1.72	0.71
1:H:377:ARG:NH1	1:H:409:THR:O	2.20	0.71
1:O:767:GLU:O	1:O:770:LEU:HB3	1.89	0.71
1:CA:767:GLU:O	1:CA:770:LEU:HB3	1.89	0.71
1:FA:68:ASP:HB2	1:FA:74:LEU:HD11	1.71	0.71
1:NA:587:THR:HG23	1:NA:590:ASP:H	1.55	0.71
1:YA:539:LEU:HD12	1:YA:640:VAL:HG21	1.72	0.71
1:YA:651:ARG:O	1:YA:653:ALA:N	2.21	0.71
1:GB:651:ARG:O	1:GB:653:ALA:N	2.21	0.71
1:LB:377:ARG:NH1	1:LB:409:THR:O	2.20	0.71
1:LB:713:SER:OG	1:MB:703:ARG:C	2.29	0.71
1:MB:539:LEU:HD12	1:MB:640:VAL:HG21	1.72	0.71
1:UB:695:ASP:OD1	1:VB:686:GLY:HA3	1.86	0.71
1:VB:377:ARG:NH1	1:VB:409:THR:O	2.20	0.71
1:ZB:786:GLN:HE22	1:AC:781:VAL:CG1	2.03	0.71
1:B:767:GLU:O	1:B:770:LEU:HB3	1.89	0.71
1:D:662:ILE:CB	1:F:654:LEU:HD21	2.20	0.71
1:I:539:LEU:HD12	1:I:640:VAL:HG21	1.72	0.71
1:K:68:ASP:HB2	1:K:74:LEU:HD11	1.71	0.71
1:R:377:ARG:NH1	1:R:409:THR:O	2.20	0.71
1:X:377:ARG:NH1	1:X:409:THR:O	2.20	0.71
1:IA:681:GLU:OE1	1:KA:675:HIS:NE2	2.23	0.71
1:JA:539:LEU:HD12	1:JA:640:VAL:HG21	1.72	0.71
1:KA:549:LEU:HD11	1:KA:561:LEU:HD11	1.70	0.71
1:NA:377:ARG:NH1	1:NA:409:THR:O	2.20	0.71
1:OA:539:LEU:HD12	1:OA:640:VAL:HG21	1.72	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:PA:651:ARG:O	1:PA:653:ALA:N	2.21	0.71
1:SA:587:THR:HG23	1:SA:590:ASP:H	1.55	0.71
1:VA:651:ARG:O	1:VA:653:ALA:N	2.21	0.71
1:DB:767:GLU:O	1:DB:770:LEU:HB3	1.89	0.71
1:FB:654:LEU:HB3	1:GB:534:HIS:CB	2.21	0.71
1:MB:706:LEU:HD21	1:NB:693:ILE:HG23	1.71	0.71
1:OB:93:ALA:HB1	1:PB:86:ALA:CB	2.01	0.71
1:UB:742:LEU:HD23	1:VB:733:ALA:O	1.91	0.71
1:VB:640:VAL:HG13	1:WB:580:ARG:HH22	1.54	0.71
1:A:750:ALA:HA	1:C:744:ALA:HB3	1.68	0.71
1:B:539:LEU:HD12	1:B:640:VAL:HG21	1.72	0.71
1:C:801:ALA:HB2	1:E:796:LYS:HD2	1.72	0.71
1:D:9:ARG:HH12	1:F:21:GLN:HB2	1.53	0.71
1:D:32:PRO:HD3	1:F:76:ASP:CB	2.20	0.71
1:D:52:THR:HG22	1:F:86:ALA:HB3	1.70	0.71
1:D:222:THR:HG22	1:F:247:GLU:HG2	1.73	0.71
1:G:587:THR:HG23	1:G:590:ASP:H	1.55	0.71
1:G:794:LYS:HG3	1:I:791:GLU:OE2	1.91	0.71
1:L:68:ASP:HB2	1:L:74:LEU:HD11	1.71	0.71
1:DA:68:ASP:HB2	1:DA:74:LEU:HD11	1.71	0.71
1:HA:68:ASP:HB2	1:HA:74:LEU:HD11	1.71	0.71
1:HA:549:LEU:HD11	1:HA:561:LEU:HD11	1.70	0.71
1:LA:587:THR:HG23	1:LA:590:ASP:H	1.55	0.71
1:PA:539:LEU:HD12	1:PA:640:VAL:HG21	1.72	0.71
1:RA:539:LEU:HD12	1:RA:640:VAL:HG21	1.72	0.71
1:RA:651:ARG:O	1:RA:653:ALA:N	2.21	0.71
1:UA:68:ASP:HB2	1:UA:74:LEU:HD11	1.71	0.71
1:AB:767:GLU:O	1:AB:770:LEU:HB3	1.89	0.71
1:GB:539:LEU:HD12	1:GB:640:VAL:HG21	1.72	0.71
1:KB:539:LEU:HD12	1:KB:640:VAL:HG21	1.72	0.71
1:A:587:THR:HG23	1:A:590:ASP:H	1.55	0.71
1:A:768:MET:HE1	1:C:763:LYS:HB3	1.73	0.71
1:D:9:ARG:HD2	1:F:21:GLN:CA	2.20	0.71
1:D:224:LYS:CD	1:F:294:ASN:HD22	2.03	0.71
1:D:703:ARG:HH21	1:F:693:ILE:CD1	2.04	0.71
1:E:68:ASP:HB2	1:E:74:LEU:HD11	1.71	0.71
1:H:742:LEU:O	1:H:746:LEU:HG	1.91	0.71
1:I:377:ARG:NH1	1:I:409:THR:O	2.20	0.71
1:J:377:ARG:NH1	1:J:409:THR:O	2.20	0.71
1:K:539:LEU:HD12	1:K:640:VAL:HG21	1.72	0.71
1:Q:587:THR:HG23	1:Q:590:ASP:H	1.55	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:FA:377:ARG:NH1	1:FA:409:THR:O	2.20	0.71
1:LA:539:LEU:HD12	1:LA:640:VAL:HG21	1.72	0.71
1:QA:651:ARG:O	1:QA:653:ALA:N	2.21	0.71
1:BB:549:LEU:HD11	1:BB:561:LEU:HD11	1.70	0.71
1:SB:716:VAL:HG21	1:TB:708:GLU:HG2	1.70	0.71
1:VB:587:THR:HG23	1:VB:590:ASP:H	1.55	0.71
1:VB:742:LEU:O	1:VB:746:LEU:HG	1.91	0.71
1:YB:587:THR:HG23	1:YB:590:ASP:H	1.55	0.71
1:A:775:ALA:HB2	1:C:770:LEU:HD12	1.72	0.70
1:D:542:ALA:HB1	1:F:573:LYS:CE	2.21	0.70
1:E:742:LEU:O	1:E:746:LEU:HG	1.91	0.70
1:T:742:LEU:O	1:T:746:LEU:HG	1.91	0.70
1:W:539:LEU:HD12	1:W:640:VAL:HG21	1.72	0.70
1:W:742:LEU:O	1:W:746:LEU:HG	1.91	0.70
1:Z:742:LEU:O	1:Z:746:LEU:HG	1.91	0.70
1:BA:587:THR:HG23	1:BA:590:ASP:H	1.55	0.70
1:FA:742:LEU:O	1:FA:746:LEU:HG	1.91	0.70
1:HA:539:LEU:HD12	1:HA:640:VAL:HG21	1.72	0.70
1:IA:651:ARG:O	1:IA:653:ALA:N	2.21	0.70
1:IA:742:LEU:O	1:IA:746:LEU:HG	1.91	0.70
1:NA:742:LEU:O	1:NA:746:LEU:HG	1.91	0.70
1:OA:742:LEU:O	1:OA:746:LEU:HG	1.91	0.70
1:VA:742:LEU:O	1:VA:746:LEU:HG	1.91	0.70
1:AB:539:LEU:HD12	1:AB:640:VAL:HG21	1.72	0.70
1:BB:587:THR:HG23	1:BB:590:ASP:H	1.55	0.70
1:HB:539:LEU:HD12	1:HB:640:VAL:HG21	1.72	0.70
1:KB:742:LEU:O	1:KB:746:LEU:HG	1.91	0.70
1:MB:742:LEU:O	1:MB:746:LEU:HG	1.91	0.70
1:OB:742:LEU:O	1:OB:746:LEU:HG	1.91	0.70
1:RB:587:THR:HG23	1:RB:590:ASP:H	1.55	0.70
1:TB:695:ASP:OD1	1:UB:690:ARG:HD3	1.92	0.70
1:UB:742:LEU:O	1:UB:746:LEU:HG	1.91	0.70
1:AC:587:THR:HG23	1:AC:590:ASP:H	1.55	0.70
1:A:750:ALA:CB	1:C:740:SER:O	2.39	0.70
1:F:587:THR:HG23	1:F:590:ASP:H	1.55	0.70
1:O:651:ARG:O	1:O:653:ALA:N	2.21	0.70
1:R:539:LEU:HD12	1:R:640:VAL:HG21	1.72	0.70
1:S:742:LEU:O	1:S:746:LEU:HG	1.91	0.70
1:Y:742:LEU:O	1:Y:746:LEU:HG	1.91	0.70
1:LA:651:ARG:O	1:LA:653:ALA:N	2.21	0.70
1:PA:742:LEU:O	1:PA:746:LEU:HG	1.91	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:RA:377:ARG:NH1	1:RA:409:THR:O	2.20	0.70
1:UA:742:LEU:O	1:UA:746:LEU:HG	1.91	0.70
1:VA:68:ASP:HB2	1:VA:74:LEU:HD11	1.71	0.70
1:XA:742:LEU:O	1:XA:746:LEU:HG	1.91	0.70
1:NB:742:LEU:O	1:NB:746:LEU:HG	1.91	0.70
1:SB:742:LEU:O	1:SB:746:LEU:HG	1.91	0.70
1:UB:735:ILE:CG1	1:VB:726:ALA:HB1	2.21	0.70
1:VB:732:ALA:HA	1:WB:726:ALA:CB	2.21	0.70
1:A:695:ASP:HB3	1:C:686:GLY:CA	2.21	0.70
1:C:587:THR:HG23	1:C:590:ASP:H	1.55	0.70
1:D:461:ARG:HD3	1:F:494:GLN:HG3	1.73	0.70
1:G:742:LEU:O	1:G:746:LEU:HG	1.92	0.70
1:J:742:LEU:O	1:J:746:LEU:HG	1.91	0.70
1:Y:587:THR:HG23	1:Y:590:ASP:H	1.55	0.70
1:EA:539:LEU:HD12	1:EA:640:VAL:HG21	1.72	0.70
1:EA:742:LEU:O	1:EA:746:LEU:HG	1.91	0.70
1:HA:587:THR:HG23	1:HA:590:ASP:H	1.55	0.70
1:KA:742:LEU:O	1:KA:746:LEU:HG	1.91	0.70
1:OA:587:THR:HG23	1:OA:590:ASP:H	1.55	0.70
1:PA:68:ASP:HB2	1:PA:74:LEU:HD11	1.71	0.70
1:PA:377:ARG:NH1	1:PA:409:THR:O	2.20	0.70
1:UA:539:LEU:HD12	1:UA:640:VAL:HG21	1.72	0.70
1:WA:587:THR:HG23	1:WA:590:ASP:H	1.55	0.70
1:BB:651:ARG:O	1:BB:653:ALA:N	2.21	0.70
1:RB:687:ARG:NH1	1:SB:679:ARG:NH1	2.39	0.70
1:F:171:ASN:ND2	1:H:245:THR:CG2	2.48	0.70
1:R:279:ARG:HH22	1:T:299:LYS:HZ2	1.40	0.70
1:DA:539:LEU:HD12	1:DA:640:VAL:HG21	1.72	0.70
1:FA:539:LEU:HD12	1:FA:640:VAL:HG21	1.72	0.70
1:FB:651:ARG:O	1:FB:653:ALA:N	2.21	0.70
1:KB:587:THR:HG23	1:KB:590:ASP:H	1.55	0.70
1:TB:779:LEU:CG	1:UB:774:ARG:HH21	2.02	0.70
1:VB:68:ASP:HB2	1:VB:74:LEU:HD11	1.71	0.70
1:I:9:ARG:HG2	1:K:24:ASN:HD21	1.56	0.70
1:N:279:ARG:HD3	1:P:337:LEU:HD13	1.74	0.70
1:R:68:ASP:HB2	1:R:74:LEU:HD11	1.71	0.70
1:W:587:THR:HG23	1:W:590:ASP:H	1.55	0.70
1:BA:68:ASP:HB2	1:BA:74:LEU:HD11	1.71	0.70
1:CA:539:LEU:HD12	1:CA:640:VAL:HG21	1.72	0.70
1:IA:706:LEU:HD21	1:KA:693:ILE:HG23	1.73	0.70
1:SA:377:ARG:NH1	1:SA:409:THR:O	2.20	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:TA:377:ARG:NH1	1:TA:409:THR:O	2.20	0.70
1:WA:742:LEU:O	1:WA:746:LEU:HG	1.92	0.70
1:LB:651:ARG:O	1:LB:653:ALA:N	2.21	0.70
1:LB:724:ALA:CA	1:MB:715:ALA:HA	2.20	0.70
1:OB:56:ARG:CG	1:PB:127:LEU:HD22	2.21	0.70
1:OB:587:THR:HG23	1:OB:590:ASP:H	1.55	0.70
1:OB:746:LEU:HD12	1:PB:737:GLY:HA3	1.74	0.70
1:VB:639:ASP:HB3	1:WB:577:SER:CB	2.21	0.70
1:WB:702:ALA:HB3	1:XB:693:ILE:CG2	2.21	0.70
1:XB:742:LEU:O	1:XB:746:LEU:HG	1.91	0.70
1:AC:742:LEU:O	1:AC:746:LEU:HG	1.91	0.70
1:B:742:LEU:O	1:B:746:LEU:HG	1.91	0.70
1:E:654:LEU:HD13	1:G:534:HIS:CD2	2.26	0.70
1:O:377:ARG:NH1	1:O:409:THR:O	2.20	0.70
1:R:742:LEU:O	1:R:746:LEU:HG	1.91	0.70
1:V:742:LEU:O	1:V:746:LEU:HG	1.91	0.70
1:QA:742:LEU:O	1:QA:746:LEU:HG	1.91	0.70
1:AB:522:PHE:CD2	1:OB:573:LYS:HE2	2.27	0.70
1:DB:742:LEU:O	1:DB:746:LEU:HG	1.91	0.70
1:GB:377:ARG:NH1	1:GB:409:THR:O	2.20	0.70
1:GB:742:LEU:O	1:GB:746:LEU:HG	1.91	0.70
1:MB:720:GLY:HA3	1:NB:711:ALA:HB1	1.73	0.70
1:NB:539:LEU:HD12	1:NB:640:VAL:HG21	1.72	0.70
1:OB:539:LEU:HD12	1:OB:640:VAL:HG21	1.72	0.70
1:QB:539:LEU:HD12	1:QB:640:VAL:HG21	1.72	0.70
1:B:377:ARG:NH1	1:B:409:THR:O	2.20	0.70
1:C:742:LEU:O	1:C:746:LEU:HG	1.91	0.70
1:E:754:GLU:HG3	1:G:744:ALA:CB	2.22	0.70
1:F:742:LEU:O	1:F:746:LEU:HG	1.91	0.70
1:L:798:MET:SD	1:N:795:PHE:HD2	2.15	0.70
1:L:809:ASP:CB	1:N:808:ARG:CB	2.62	0.70
1:N:639:ASP:HB3	1:P:577:SER:CB	2.21	0.70
1:V:587:THR:HG23	1:V:590:ASP:H	1.55	0.70
1:EA:68:ASP:HB2	1:EA:74:LEU:HD11	1.71	0.70
1:LA:377:ARG:NH1	1:LA:409:THR:O	2.20	0.70
1:BB:68:ASP:HB2	1:BB:74:LEU:HD11	1.71	0.70
1:DB:706:LEU:HD21	1:EB:693:ILE:O	1.91	0.70
1:OB:377:ARG:NH1	1:OB:409:THR:O	2.20	0.70
1:RB:742:LEU:O	1:RB:746:LEU:HG	1.92	0.70
1:TB:742:LEU:O	1:TB:746:LEU:HG	1.91	0.70
1:UB:539:LEU:HD12	1:UB:640:VAL:HG21	1.72	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:ZB:539:LEU:HD12	1:ZB:640:VAL:HG21	1.72	0.70
1:B:535:ALA:HA	1:AC:658:VAL:HG13	1.74	0.70
1:H:587:THR:HG23	1:H:590:ASP:H	1.55	0.70
1:T:587:THR:HG23	1:T:590:ASP:H	1.55	0.70
1:X:742:LEU:O	1:X:746:LEU:HG	1.91	0.70
1:LA:742:LEU:O	1:LA:746:LEU:HG	1.91	0.70
1:OA:651:ARG:O	1:OA:653:ALA:N	2.21	0.70
1:TA:742:LEU:O	1:TA:746:LEU:HG	1.91	0.70
1:XA:539:LEU:HD12	1:XA:640:VAL:HG21	1.72	0.70
1:AB:742:LEU:O	1:AB:746:LEU:HG	1.91	0.70
1:VB:713:SER:OG	1:WB:707:LEU:HD12	1.91	0.70
1:VB:732:ALA:HA	1:WB:726:ALA:HB1	1.73	0.70
1:YB:742:LEU:O	1:YB:746:LEU:HG	1.91	0.70
1:AC:377:ARG:NH1	1:AC:409:THR:O	2.20	0.70
1:D:52:THR:N	1:F:86:ALA:CB	2.53	0.70
1:D:52:THR:HG22	1:F:85:HIS:CD2	2.26	0.70
1:D:669:GLN:HE22	1:F:661:ALA:HB2	1.56	0.70
1:D:724:ALA:HB1	1:F:715:ALA:CB	2.21	0.70
1:H:171:ASN:ND2	1:J:245:THR:HG21	2.02	0.70
1:I:742:LEU:O	1:I:746:LEU:HG	1.91	0.70
1:L:539:LEU:HD12	1:L:640:VAL:HG21	1.72	0.70
1:JA:377:ARG:NH1	1:JA:409:THR:O	2.20	0.70
1:KA:377:ARG:NH1	1:KA:409:THR:O	2.20	0.70
1:ZA:539:LEU:HD12	1:ZA:640:VAL:HG21	1.72	0.70
1:JB:539:LEU:HD12	1:JB:640:VAL:HG21	1.72	0.70
1:AC:539:LEU:HD12	1:AC:640:VAL:HG21	1.72	0.70
1:A:742:LEU:O	1:A:746:LEU:HG	1.91	0.70
1:A:761:ARG:HG3	1:C:751:LEU:O	1.90	0.70
1:N:587:THR:HG23	1:N:590:ASP:H	1.55	0.70
1:Y:651:ARG:O	1:Y:653:ALA:N	2.21	0.70
1:Z:68:ASP:HB2	1:Z:74:LEU:HD11	1.71	0.70
1:CA:377:ARG:NH1	1:CA:409:THR:O	2.20	0.70
1:CA:742:LEU:O	1:CA:746:LEU:HG	1.91	0.70
1:IA:673:ALA:CB	1:KA:664:ILE:CD1	2.67	0.70
1:RA:742:LEU:O	1:RA:746:LEU:HG	1.91	0.70
1:SA:742:LEU:O	1:SA:746:LEU:HG	1.91	0.70
1:XA:713:SER:OG	1:ZA:703:ARG:HG2	1.92	0.70
1:CB:742:LEU:O	1:CB:746:LEU:HG	1.91	0.70
1:EB:742:LEU:O	1:EB:746:LEU:HG	1.91	0.70
1:HB:742:LEU:O	1:HB:746:LEU:HG	1.91	0.70
1:JB:742:LEU:O	1:JB:746:LEU:HG	1.91	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:QB:742:LEU:O	1:QB:746:LEU:HG	1.91	0.70
1:A:786:GLN:CB	1:C:781:VAL:HG21	2.14	0.69
1:D:12:PRO:HG3	1:F:80:GLN:C	2.11	0.69
1:G:88:GLN:HB3	1:G:155:LYS:HD3	1.74	0.69
1:M:742:LEU:O	1:M:746:LEU:HG	1.91	0.69
1:O:742:LEU:O	1:O:746:LEU:HG	1.91	0.69
1:Y:68:ASP:HB2	1:Y:74:LEU:HD11	1.71	0.69
1:KA:539:LEU:HD12	1:KA:640:VAL:HG21	1.72	0.69
1:MA:539:LEU:HD12	1:MA:640:VAL:HG21	1.72	0.69
1:MA:587:THR:HG23	1:MA:590:ASP:H	1.55	0.69
1:RA:587:THR:HG23	1:RA:590:ASP:H	1.55	0.69
1:DB:539:LEU:HD12	1:DB:640:VAL:HG21	1.72	0.69
1:JB:587:THR:HG23	1:JB:590:ASP:H	1.55	0.69
1:NB:88:GLN:HB3	1:NB:155:LYS:HD3	1.74	0.69
1:PB:742:LEU:O	1:PB:746:LEU:HG	1.91	0.69
1:B:223:GLU:OE2	1:D:293:LYS:HB3	1.91	0.69
1:F:539:LEU:HD12	1:F:640:VAL:HG21	1.72	0.69
1:J:651:ARG:O	1:J:653:ALA:N	2.21	0.69
1:K:88:GLN:HB3	1:K:155:LYS:HD3	1.74	0.69
1:T:539:LEU:HD12	1:T:640:VAL:HG21	1.72	0.69
1:CA:88:GLN:HB3	1:CA:155:LYS:HD3	1.74	0.69
1:RA:88:GLN:HB3	1:RA:155:LYS:HD3	1.75	0.69
1:EB:68:ASP:HB2	1:EB:74:LEU:HD11	1.71	0.69
1:FB:742:LEU:O	1:FB:746:LEU:HG	1.91	0.69
1:OB:94:GLN:C	1:PB:85:HIS:HD2	1.92	0.69
1:OB:364:GLU:N	1:PB:353:ALA:CB	2.55	0.69
1:ZB:88:GLN:HB3	1:ZB:155:LYS:HD3	1.74	0.69
1:E:539:LEU:HD12	1:E:640:VAL:HG21	1.72	0.69
1:L:170:GLN:HB3	1:N:233:GLN:OE1	1.93	0.69
1:N:88:GLN:HB3	1:N:155:LYS:HD3	1.75	0.69
1:P:640:VAL:O	1:R:580:ARG:NH2	2.25	0.69
1:Z:88:GLN:HB3	1:Z:155:LYS:HD3	1.75	0.69
1:DA:742:LEU:O	1:DA:746:LEU:HG	1.91	0.69
1:JA:651:ARG:O	1:JA:653:ALA:N	2.21	0.69
1:QA:88:GLN:HB3	1:QA:155:LYS:HD3	1.74	0.69
1:SA:88:GLN:HB3	1:SA:155:LYS:HD3	1.74	0.69
1:GB:88:GLN:HB3	1:GB:155:LYS:HD3	1.75	0.69
1:KB:88:GLN:HB3	1:KB:155:LYS:HD3	1.75	0.69
1:MB:88:GLN:HB3	1:MB:155:LYS:HD3	1.75	0.69
1:OB:222:THR:HG21	1:PB:230:ARG:HE	1.57	0.69
1:OB:279:ARG:CZ	1:PB:299:LYS:HZ2	2.04	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:UB:651:ARG:O	1:UB:653:ALA:N	2.21	0.69
1:ZB:651:ARG:O	1:ZB:653:ALA:N	2.21	0.69
1:A:88:GLN:HB3	1:A:155:LYS:HD3	1.75	0.69
1:A:768:MET:HE1	1:C:759:LEU:O	1.90	0.69
1:A:768:MET:HE2	1:C:763:LYS:H	1.58	0.69
1:D:279:ARG:HH22	1:F:369:ALA:CB	2.05	0.69
1:IA:54:PRO:HA	1:KA:86:ALA:CB	2.22	0.69
1:PA:88:GLN:HB3	1:PA:155:LYS:HD3	1.75	0.69
1:DB:88:GLN:HB3	1:DB:155:LYS:HD3	1.74	0.69
1:EB:720:GLY:CA	1:FB:711:ALA:HB1	2.21	0.69
1:JB:88:GLN:HB3	1:JB:155:LYS:HD3	1.75	0.69
1:OB:363:LEU:C	1:PB:353:ALA:O	2.29	0.69
1:RB:377:ARG:NH1	1:RB:409:THR:O	2.20	0.69
1:SB:655:GLN:HE21	1:TB:649:ARG:HB2	1.57	0.69
1:AC:88:GLN:HB3	1:AC:155:LYS:HD3	1.75	0.69
1:C:720:GLY:CA	1:E:711:ALA:HB1	2.22	0.69
1:F:377:ARG:NH1	1:F:409:THR:O	2.20	0.69
1:L:742:LEU:O	1:L:746:LEU:HG	1.91	0.69
1:P:88:GLN:HB3	1:P:155:LYS:HD3	1.75	0.69
1:T:377:ARG:NH1	1:T:409:THR:O	2.20	0.69
1:HA:742:LEU:O	1:HA:746:LEU:HG	1.91	0.69
1:IA:595:SER:HB3	1:KA:580:ARG:HH22	1.56	0.69
1:XA:720:GLY:HA3	1:ZA:711:ALA:CB	2.19	0.69
1:ZA:587:THR:HG23	1:ZA:590:ASP:H	1.55	0.69
1:IB:742:LEU:O	1:IB:746:LEU:HG	1.91	0.69
1:OB:88:GLN:HB3	1:OB:155:LYS:HD3	1.75	0.69
1:TB:687:ARG:NH1	1:UB:679:ARG:CZ	2.56	0.69
1:D:742:LEU:O	1:D:746:LEU:HG	1.91	0.69
1:M:88:GLN:HB3	1:M:155:LYS:HD3	1.74	0.69
1:N:768:MET:HE3	1:P:763:LYS:HG3	1.74	0.69
1:X:88:GLN:HB3	1:X:155:LYS:HD3	1.75	0.69
1:HA:790:VAL:HG13	1:JA:788:ALA:HB2	1.73	0.69
1:IA:362:PRO:HB2	1:KA:352:GLN:HB3	1.74	0.69
1:YA:742:LEU:O	1:YA:746:LEU:HG	1.91	0.69
1:BB:757:ALA:HB2	1:CB:748:ALA:HB1	1.74	0.69
1:KB:377:ARG:NH1	1:KB:409:THR:O	2.20	0.69
1:LB:88:GLN:HB3	1:LB:155:LYS:HD3	1.74	0.69
1:LB:742:LEU:O	1:LB:746:LEU:HG	1.91	0.69
1:A:790:VAL:CG2	1:C:781:VAL:O	2.40	0.69
1:C:802:LEU:HD21	1:E:795:PHE:HD2	1.58	0.69
1:D:52:THR:H	1:F:86:ALA:CB	2.02	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:742:LEU:O	1:K:746:LEU:HG	1.91	0.69
1:P:742:LEU:O	1:P:746:LEU:HG	1.91	0.69
1:Q:377:ARG:NH1	1:Q:409:THR:O	2.20	0.69
1:MA:742:LEU:O	1:MA:746:LEU:HG	1.91	0.69
1:XA:88:GLN:HB3	1:XA:155:LYS:HD3	1.74	0.69
1:RB:88:GLN:HB3	1:RB:155:LYS:HD3	1.75	0.69
1:UB:806:THR:HG22	1:VB:808:ARG:NH2	2.07	0.69
1:ZB:742:LEU:O	1:ZB:746:LEU:HG	1.91	0.69
1:A:717:GLU:HB2	1:C:707:LEU:HD13	1.73	0.69
1:A:790:VAL:HG11	1:C:784:ALA:CA	2.23	0.69
1:B:533:ASP:HB3	1:AC:661:ALA:CB	2.23	0.69
1:D:12:PRO:HG3	1:F:81:VAL:N	2.08	0.69
1:G:377:ARG:NH1	1:G:409:THR:O	2.20	0.69
1:S:88:GLN:HB3	1:S:155:LYS:HD3	1.75	0.69
1:W:88:GLN:HB3	1:W:155:LYS:HD3	1.74	0.69
1:BA:88:GLN:HB3	1:BA:155:LYS:HD3	1.74	0.69
1:JA:742:LEU:O	1:JA:746:LEU:HG	1.91	0.69
1:UA:88:GLN:HB3	1:UA:155:LYS:HD3	1.75	0.69
1:ZA:742:LEU:O	1:ZA:746:LEU:HG	1.91	0.69
1:ZA:757:ALA:CB	1:BB:748:ALA:HB1	2.23	0.69
1:AB:88:GLN:HB3	1:AB:155:LYS:HD3	1.75	0.69
1:BB:742:LEU:O	1:BB:746:LEU:HG	1.91	0.69
1:CB:88:GLN:HB3	1:CB:155:LYS:HD3	1.75	0.69
1:DB:377:ARG:NH1	1:DB:409:THR:O	2.20	0.69
1:FB:377:ARG:NH1	1:FB:409:THR:O	2.20	0.69
1:KB:640:VAL:O	1:LB:580:ARG:NH2	2.26	0.69
1:KB:651:ARG:O	1:KB:653:ALA:N	2.21	0.69
1:LB:484:PRO:O	1:MB:473:TYR:HE1	1.76	0.69
1:LB:710:GLU:CG	1:MB:700:GLU:OE1	2.34	0.69
1:TB:639:ASP:CG	1:UB:577:SER:HB2	2.13	0.69
1:UB:88:GLN:HB3	1:UB:155:LYS:HD3	1.75	0.69
1:UB:768:MET:HE1	1:VB:766:ARG:CD	2.22	0.69
1:VB:465:ASN:HD21	1:WB:563:SER:HA	1.58	0.69
1:ZB:757:ALA:HB1	1:AC:751:LEU:HB3	1.65	0.69
1:A:702:ALA:HB3	1:C:693:ILE:HG22	1.73	0.69
1:C:775:ALA:C	1:E:770:LEU:HD12	2.13	0.69
1:C:793:LYS:NZ	1:E:785:GLN:HE22	1.87	0.69
1:AA:88:GLN:HB3	1:AA:155:LYS:HD3	1.74	0.69
1:OA:88:GLN:HB3	1:OA:155:LYS:HD3	1.75	0.69
1:ZA:595:SER:HB2	1:BB:580:ARG:HH12	1.58	0.69
1:MB:742:LEU:CD2	1:NB:734:ARG:HE	2.05	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:OB:275:THR:OG1	1:PB:297:GLY:N	2.26	0.69
1:TB:655:GLN:CD	1:UB:649:ARG:HB3	2.12	0.69
1:A:707:LEU:HD13	1:NB:717:GLU:HG3	1.75	0.69
1:C:88:GLN:HB3	1:C:155:LYS:HD3	1.75	0.69
1:L:88:GLN:HB3	1:L:155:LYS:HD3	1.75	0.69
1:BA:742:LEU:O	1:BA:746:LEU:HG	1.91	0.69
1:IA:88:GLN:HB3	1:IA:155:LYS:HD3	1.75	0.69
1:IA:279:ARG:NH2	1:KA:299:LYS:HD2	2.08	0.69
1:KA:88:GLN:HB3	1:KA:155:LYS:HD3	1.74	0.69
1:VA:377:ARG:NH1	1:VA:409:THR:O	2.20	0.69
1:FB:486:LEU:CB	1:GB:473:TYR:HB3	2.23	0.69
1:MB:724:ALA:CB	1:NB:714:MET:SD	2.81	0.69
1:ZB:377:ARG:NH1	1:ZB:409:THR:O	2.20	0.69
1:A:724:ALA:O	1:C:718:SER:HB2	1.93	0.68
1:B:88:GLN:HB3	1:B:155:LYS:HD3	1.74	0.68
1:D:51:VAL:HA	1:F:85:HIS:CD2	2.27	0.68
1:D:651:ARG:CG	1:F:536:ARG:NH1	2.32	0.68
1:F:8:ILE:HD12	1:F:16:ILE:HD11	1.76	0.68
1:F:753:ILE:HG13	1:F:756:GLU:HB3	1.76	0.68
1:Q:742:LEU:O	1:Q:746:LEU:HG	1.91	0.68
1:MA:753:ILE:HG13	1:MA:756:GLU:HB3	1.76	0.68
1:LB:461:ARG:NH1	1:MB:494:GLN:HG3	2.09	0.68
1:PB:88:GLN:HB3	1:PB:155:LYS:HD3	1.74	0.68
1:UB:753:ILE:HG13	1:UB:756:GLU:HB3	1.76	0.68
1:WB:742:LEU:O	1:WB:746:LEU:HG	1.91	0.68
1:YB:88:GLN:HB3	1:YB:155:LYS:HD3	1.75	0.68
1:A:761:ARG:CB	1:C:751:LEU:O	2.39	0.68
1:A:801:ALA:HB1	1:C:796:LYS:CG	2.22	0.68
1:B:759:LEU:HD12	1:AC:768:MET:SD	2.17	0.68
1:D:681:GLU:OE1	1:F:675:HIS:CD2	2.45	0.68
1:I:8:ILE:HD12	1:I:16:ILE:HD11	1.76	0.68
1:I:753:ILE:HG13	1:I:756:GLU:HB3	1.76	0.68
1:N:118:ASN:ND2	1:P:180:LYS:HA	2.08	0.68
1:Q:88:GLN:HB3	1:Q:155:LYS:HD3	1.74	0.68
1:AA:742:LEU:O	1:AA:746:LEU:HG	1.91	0.68
1:GA:88:GLN:HB3	1:GA:155:LYS:HD3	1.75	0.68
1:IA:753:ILE:HG13	1:IA:756:GLU:HB3	1.76	0.68
1:NA:706:LEU:HD21	1:PA:693:ILE:HG23	1.73	0.68
1:OA:8:ILE:HD12	1:OA:16:ILE:HD11	1.76	0.68
1:TA:88:GLN:HB3	1:TA:155:LYS:HD3	1.75	0.68
1:XA:753:ILE:HG13	1:XA:756:GLU:HB3	1.76	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:ZA:88:GLN:HB3	1:ZA:155:LYS:HD3	1.75	0.68
1:JB:8:ILE:HD12	1:JB:16:ILE:HD11	1.76	0.68
1:KB:753:ILE:HG13	1:KB:756:GLU:HB3	1.76	0.68
1:NB:570:ASP:HA	1:NB:573:LYS:HE3	1.76	0.68
1:XB:8:ILE:HD12	1:XB:16:ILE:HD11	1.76	0.68
1:B:658:VAL:CA	1:D:533:ASP:O	2.40	0.68
1:C:753:ILE:HG13	1:C:756:GLU:HB3	1.76	0.68
1:D:706:LEU:CD2	1:F:697:SER:OG	2.41	0.68
1:N:742:LEU:O	1:N:746:LEU:HG	1.91	0.68
1:P:806:THR:CG2	1:R:804:PRO:CB	2.47	0.68
1:T:88:GLN:HB3	1:T:155:LYS:HD3	1.75	0.68
1:T:753:ILE:HG13	1:T:756:GLU:HB3	1.76	0.68
1:EA:753:ILE:HG13	1:EA:756:GLU:HB3	1.76	0.68
1:GA:742:LEU:O	1:GA:746:LEU:HG	1.91	0.68
1:LA:753:ILE:HG13	1:LA:756:GLU:HB3	1.76	0.68
1:JB:465:ASN:ND2	1:KB:563:SER:HA	2.06	0.68
1:LB:464:HIS:CD2	1:MB:469:GLN:HG2	2.28	0.68
1:LB:655:GLN:CG	1:MB:649:ARG:HD3	2.22	0.68
1:MB:8:ILE:HD12	1:MB:16:ILE:HD11	1.76	0.68
1:OB:305:GLU:OE1	1:PB:298:GLN:CD	2.31	0.68
1:SB:728:SER:HA	1:TB:719:THR:CA	2.21	0.68
1:TB:88:GLN:HB3	1:TB:155:LYS:HD3	1.74	0.68
1:UB:739:GLY:HA2	1:VB:733:ALA:CB	2.24	0.68
1:WB:570:ASP:HA	1:WB:573:LYS:HE3	1.76	0.68
1:WB:753:ILE:HG13	1:WB:756:GLU:HB3	1.76	0.68
1:XB:88:GLN:HB3	1:XB:155:LYS:HD3	1.74	0.68
1:YB:753:ILE:HG13	1:YB:756:GLU:HB3	1.76	0.68
1:AC:8:ILE:HD12	1:AC:16:ILE:HD11	1.76	0.68
1:A:734:ARG:HH22	1:NB:743:GLN:HE21	1.39	0.68
1:D:721:ASN:CA	1:F:711:ALA:HB1	2.22	0.68
1:M:753:ILE:HG13	1:M:756:GLU:HB3	1.76	0.68
1:S:570:ASP:HA	1:S:573:LYS:HE3	1.76	0.68
1:T:570:ASP:HA	1:T:573:LYS:HE3	1.76	0.68
1:Y:8:ILE:HD12	1:Y:16:ILE:HD11	1.76	0.68
1:Y:88:GLN:HB3	1:Y:155:LYS:HD3	1.74	0.68
1:DA:570:ASP:HA	1:DA:573:LYS:HE3	1.76	0.68
1:EA:570:ASP:HA	1:EA:573:LYS:HE3	1.76	0.68
1:JA:8:ILE:HD12	1:JA:16:ILE:HD11	1.76	0.68
1:WA:88:GLN:HB3	1:WA:155:LYS:HD3	1.75	0.68
1:FB:405:THR:HG21	1:GB:394:LYS:O	1.93	0.68
1:FB:570:ASP:HA	1:FB:573:LYS:HE3	1.76	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:GB:8:ILE:HD12	1:GB:16:ILE:HD11	1.76	0.68
1:IB:88:GLN:HB3	1:IB:155:LYS:HD3	1.75	0.68
1:JB:641:GLN:O	1:KB:580:ARG:NE	2.26	0.68
1:MB:757:ALA:CB	1:NB:748:ALA:CB	2.63	0.68
1:NB:8:ILE:HD12	1:NB:16:ILE:HD11	1.76	0.68
1:QB:813:ALA:HB2	1:RB:811:ALA:HB1	1.75	0.68
1:SB:753:ILE:HG13	1:SB:756:GLU:HB3	1.76	0.68
1:A:465:ASN:ND2	1:C:563:SER:HA	2.08	0.68
1:D:114:VAL:HG23	1:F:138:MET:CE	2.23	0.68
1:E:570:ASP:HA	1:E:573:LYS:HE3	1.76	0.68
1:L:570:ASP:HA	1:L:573:LYS:HE3	1.76	0.68
1:N:655:GLN:HG2	1:P:649:ARG:HD3	1.74	0.68
1:V:753:ILE:HG13	1:V:756:GLU:HB3	1.76	0.68
1:AA:219:VAL:HG21	1:AA:227:LEU:HD22	1.76	0.68
1:FA:753:ILE:HG13	1:FA:756:GLU:HB3	1.76	0.68
1:GA:651:ARG:O	1:GA:653:ALA:N	2.21	0.68
1:IA:720:GLY:C	1:KA:711:ALA:HB1	2.13	0.68
1:NA:88:GLN:HB3	1:NA:155:LYS:HD3	1.75	0.68
1:VA:219:VAL:HG21	1:VA:227:LEU:HD22	1.76	0.68
1:ZA:8:ILE:HD12	1:ZA:16:ILE:HD11	1.76	0.68
1:ZA:570:ASP:HA	1:ZA:573:LYS:HE3	1.76	0.68
1:CB:570:ASP:HA	1:CB:573:LYS:HE3	1.76	0.68
1:FB:8:ILE:HD12	1:FB:16:ILE:HD11	1.76	0.68
1:FB:651:ARG:CG	1:GB:536:ARG:HH22	2.07	0.68
1:LB:747:LYS:HE2	1:MB:740:SER:OG	1.93	0.68
1:MB:786:GLN:HB2	1:NB:781:VAL:HG22	1.76	0.68
1:OB:203:ALA:HB2	1:PB:192:THR:HG21	0.72	0.68
1:QB:8:ILE:HD12	1:QB:16:ILE:HD11	1.76	0.68
1:SB:88:GLN:HB3	1:SB:155:LYS:HD3	1.75	0.68
1:ZB:746:LEU:HD22	1:AC:737:GLY:C	2.13	0.68
1:H:753:ILE:HG13	1:H:756:GLU:HB3	1.76	0.68
1:J:88:GLN:HB3	1:J:155:LYS:HD3	1.75	0.68
1:K:570:ASP:HA	1:K:573:LYS:HE3	1.76	0.68
1:L:753:ILE:HG13	1:L:756:GLU:HB3	1.76	0.68
1:S:377:ARG:NH1	1:S:409:THR:O	2.20	0.68
1:DA:88:GLN:HB3	1:DA:155:LYS:HD3	1.74	0.68
1:IA:219:VAL:HG21	1:IA:227:LEU:HD22	1.76	0.68
1:LA:8:ILE:HD12	1:LA:16:ILE:HD11	1.76	0.68
1:LA:88:GLN:HB3	1:LA:155:LYS:HD3	1.74	0.68
1:OA:219:VAL:HG21	1:OA:227:LEU:HD22	1.76	0.68
1:ZA:753:ILE:HG13	1:ZA:756:GLU:HB3	1.76	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AB:570:ASP:HA	1:AB:573:LYS:HE3	1.76	0.68
1:BB:8:ILE:HD12	1:BB:16:ILE:HD11	1.76	0.68
1:BB:377:ARG:NH1	1:BB:409:THR:O	2.20	0.68
1:CB:219:VAL:HG21	1:CB:227:LEU:HD22	1.76	0.68
1:DB:753:ILE:HG13	1:DB:756:GLU:HB3	1.76	0.68
1:EB:570:ASP:HA	1:EB:573:LYS:HE3	1.76	0.68
1:FB:753:ILE:HG13	1:FB:756:GLU:HB3	1.76	0.68
1:HB:88:GLN:HB3	1:HB:155:LYS:HD3	1.74	0.68
1:IB:753:ILE:HG13	1:IB:756:GLU:HB3	1.76	0.68
1:OB:219:VAL:HG21	1:OB:227:LEU:HD22	1.76	0.68
1:OB:764:LYS:HD2	1:PB:759:LEU:CD1	2.24	0.68
1:SB:377:ARG:NH1	1:SB:409:THR:O	2.20	0.68
1:VB:746:LEU:HB3	1:WB:741:VAL:HG21	1.72	0.68
1:ZB:570:ASP:HA	1:ZB:573:LYS:HE3	1.76	0.68
1:A:768:MET:HE3	1:C:763:LYS:HB2	0.68	0.68
1:A:779:LEU:HD11	1:C:770:LEU:HA	1.74	0.68
1:J:570:ASP:HA	1:J:573:LYS:HE3	1.76	0.68
1:M:570:ASP:HA	1:M:573:LYS:HE3	1.76	0.68
1:O:219:VAL:HG21	1:O:227:LEU:HD22	1.76	0.68
1:O:753:ILE:HG13	1:O:756:GLU:HB3	1.76	0.68
1:Q:8:ILE:HD12	1:Q:16:ILE:HD11	1.76	0.68
1:R:753:ILE:HG13	1:R:756:GLU:HB3	1.76	0.68
1:T:8:ILE:HD12	1:T:16:ILE:HD11	1.76	0.68
1:W:8:ILE:HD12	1:W:16:ILE:HD11	1.76	0.68
1:W:570:ASP:HA	1:W:573:LYS:HE3	1.76	0.68
1:Z:8:ILE:HD12	1:Z:16:ILE:HD11	1.76	0.68
1:GA:570:ASP:HA	1:GA:573:LYS:HE3	1.76	0.68
1:IA:377:ARG:NH1	1:IA:409:THR:O	2.20	0.68
1:JA:753:ILE:HG13	1:JA:756:GLU:HB3	1.76	0.68
1:MA:8:ILE:HD12	1:MA:16:ILE:HD11	1.76	0.68
1:OA:570:ASP:HA	1:OA:573:LYS:HE3	1.76	0.68
1:RA:570:ASP:HA	1:RA:573:LYS:HE3	1.76	0.68
1:WA:753:ILE:HG13	1:WA:756:GLU:HB3	1.76	0.68
1:XA:570:ASP:HA	1:XA:573:LYS:HE3	1.76	0.68
1:CB:8:ILE:HD12	1:CB:16:ILE:HD11	1.76	0.68
1:FB:651:ARG:CG	1:GB:536:ARG:NH2	2.56	0.68
1:LB:279:ARG:NH2	1:MB:299:LYS:HD2	2.09	0.68
1:NB:219:VAL:HG21	1:NB:227:LEU:HD22	1.76	0.68
1:PB:8:ILE:HD12	1:PB:16:ILE:HD11	1.76	0.68
1:QB:377:ARG:NH1	1:QB:409:THR:O	2.20	0.68
1:SB:570:ASP:HA	1:SB:573:LYS:HE3	1.76	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:UB:709:LEU:HD12	1:VB:700:GLU:HB2	1.73	0.68
1:XB:377:ARG:NH1	1:XB:409:THR:O	2.20	0.68
1:AC:219:VAL:HG21	1:AC:227:LEU:HD22	1.76	0.68
1:A:753:ILE:HG13	1:A:756:GLU:HB3	1.76	0.68
1:A:757:ALA:HB2	1:C:748:ALA:HB1	1.75	0.68
1:A:790:VAL:CG1	1:C:784:ALA:O	2.40	0.68
1:C:710:GLU:HG3	1:E:700:GLU:OE1	1.94	0.68
1:D:8:ILE:HD12	1:D:16:ILE:HD11	1.76	0.68
1:D:88:GLN:HB3	1:D:155:LYS:HD3	1.75	0.68
1:I:219:VAL:HG21	1:I:227:LEU:HD22	1.76	0.68
1:N:95:ASP:HA	1:P:85:HIS:NE2	2.07	0.68
1:X:8:ILE:HD12	1:X:16:ILE:HD11	1.76	0.68
1:CA:753:ILE:HG13	1:CA:756:GLU:HB3	1.76	0.68
1:EA:88:GLN:HB3	1:EA:155:LYS:HD3	1.75	0.68
1:GA:8:ILE:HD12	1:GA:16:ILE:HD11	1.76	0.68
1:IA:8:ILE:HD12	1:IA:16:ILE:HD11	1.76	0.68
1:QA:753:ILE:HG13	1:QA:756:GLU:HB3	1.76	0.68
1:VA:88:GLN:HB3	1:VA:155:LYS:HD3	1.74	0.68
1:XA:219:VAL:HG21	1:XA:227:LEU:HD22	1.76	0.68
1:BB:88:GLN:HB3	1:BB:155:LYS:HD3	1.75	0.68
1:BB:570:ASP:HA	1:BB:573:LYS:HE3	1.76	0.68
1:DB:570:ASP:HA	1:DB:573:LYS:HE3	1.76	0.68
1:EB:88:GLN:HB3	1:EB:155:LYS:HD3	1.75	0.68
1:GB:570:ASP:HA	1:GB:573:LYS:HE3	1.76	0.68
1:GB:706:LEU:HD21	1:HB:693:ILE:HG23	1.76	0.68
1:GB:753:ILE:HG13	1:GB:756:GLU:HB3	1.76	0.68
1:JB:377:ARG:NH1	1:JB:409:THR:O	2.20	0.68
1:KB:219:VAL:HG21	1:KB:227:LEU:HD22	1.76	0.68
1:OB:8:ILE:HD12	1:OB:16:ILE:HD11	1.76	0.68
1:PB:219:VAL:HG21	1:PB:227:LEU:HD22	1.76	0.68
1:QB:88:GLN:HB3	1:QB:155:LYS:HD3	1.74	0.68
1:QB:753:ILE:HG13	1:QB:756:GLU:HB3	1.76	0.68
1:QB:791:GLU:HA	1:QB:794:LYS:HE2	1.76	0.68
1:RB:570:ASP:HA	1:RB:573:LYS:HE3	1.76	0.68
1:UB:791:GLU:HA	1:UB:794:LYS:HE2	1.76	0.68
1:A:779:LEU:CB	1:C:773:ALA:CB	2.72	0.68
1:D:115:VAL:O	1:F:138:MET:HE1	1.94	0.68
1:D:223:GLU:CD	1:F:293:LYS:HG2	2.14	0.68
1:E:651:ARG:O	1:E:653:ALA:N	2.21	0.68
1:F:88:GLN:HB3	1:F:155:LYS:HD3	1.74	0.68
1:F:219:VAL:HG21	1:F:227:LEU:HD22	1.76	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:219:VAL:HG21	1:G:227:LEU:HD22	1.76	0.68
1:K:8:ILE:HD12	1:K:16:ILE:HD11	1.76	0.68
1:K:219:VAL:HG21	1:K:227:LEU:HD22	1.76	0.68
1:V:570:ASP:HA	1:V:573:LYS:HE3	1.76	0.68
1:V:791:GLU:HA	1:V:794:LYS:HE2	1.76	0.68
1:Y:570:ASP:HA	1:Y:573:LYS:HE3	1.76	0.68
1:AA:570:ASP:HA	1:AA:573:LYS:HE3	1.76	0.68
1:CA:570:ASP:HA	1:CA:573:LYS:HE3	1.76	0.68
1:PA:570:ASP:HA	1:PA:573:LYS:HE3	1.76	0.68
1:QA:8:ILE:HD12	1:QA:16:ILE:HD11	1.76	0.68
1:RA:8:ILE:HD12	1:RA:16:ILE:HD11	1.76	0.68
1:UA:8:ILE:HD12	1:UA:16:ILE:HD11	1.76	0.68
1:EB:753:ILE:HG13	1:EB:756:GLU:HB3	1.76	0.68
1:EB:757:ALA:HB2	1:FB:748:ALA:HB1	1.76	0.68
1:HB:219:VAL:HG21	1:HB:227:LEU:HD22	1.76	0.68
1:JB:570:ASP:HA	1:JB:573:LYS:HE3	1.76	0.68
1:KB:570:ASP:HA	1:KB:573:LYS:HE3	1.76	0.68
1:ZB:753:ILE:HG13	1:ZB:756:GLU:HB3	1.76	0.68
1:AC:753:ILE:HG13	1:AC:756:GLU:HB3	1.76	0.68
1:D:13:TYR:CE2	1:F:82:ARG:CD	2.74	0.68
1:D:542:ALA:CB	1:F:573:LYS:HZ3	2.05	0.68
1:D:666:THR:HG22	1:H:534:HIS:CE1	2.28	0.68
1:G:8:ILE:HD12	1:G:16:ILE:HD11	1.76	0.68
1:G:570:ASP:HA	1:G:573:LYS:HE3	1.76	0.68
1:K:377:ARG:NH1	1:K:409:THR:O	2.20	0.68
1:L:8:ILE:HD12	1:L:16:ILE:HD11	1.76	0.68
1:P:219:VAL:HG21	1:P:227:LEU:HD22	1.76	0.68
1:Q:219:VAL:HG21	1:Q:227:LEU:HD22	1.76	0.68
1:R:219:VAL:HG21	1:R:227:LEU:HD22	1.76	0.68
1:V:768:MET:SD	1:X:759:LEU:HD11	2.33	0.68
1:W:377:ARG:NH1	1:W:409:THR:O	2.20	0.68
1:DA:219:VAL:HG21	1:DA:227:LEU:HD22	1.76	0.68
1:FA:88:GLN:HB3	1:FA:155:LYS:HD3	1.75	0.68
1:JA:219:VAL:HG21	1:JA:227:LEU:HD22	1.76	0.68
1:LA:219:VAL:HG21	1:LA:227:LEU:HD22	1.76	0.68
1:LA:791:GLU:HA	1:LA:794:LYS:HE2	1.76	0.68
1:RA:753:ILE:HG13	1:RA:756:GLU:HB3	1.76	0.68
1:SA:791:GLU:HA	1:SA:794:LYS:HE2	1.76	0.68
1:VA:753:ILE:HG13	1:VA:756:GLU:HB3	1.76	0.68
1:YA:753:ILE:HG13	1:YA:756:GLU:HB3	1.76	0.68
1:IB:8:ILE:HD12	1:IB:16:ILE:HD11	1.76	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:JB:219:VAL:HG21	1:JB:227:LEU:HD22	1.76	0.68
1:JB:791:GLU:HA	1:JB:794:LYS:HE2	1.76	0.68
1:LB:687:ARG:HH12	1:MB:679:ARG:CD	2.04	0.68
1:MB:753:ILE:HG13	1:MB:756:GLU:HB3	1.76	0.68
1:OB:753:ILE:HG13	1:OB:756:GLU:HB3	1.76	0.68
1:SB:219:VAL:HG21	1:SB:227:LEU:HD22	1.76	0.68
1:UB:219:VAL:HG21	1:UB:227:LEU:HD22	1.76	0.68
1:VB:570:ASP:HA	1:VB:573:LYS:HE3	1.76	0.68
1:YB:8:ILE:HD12	1:YB:16:ILE:HD11	1.76	0.68
1:ZB:735:ILE:CG1	1:AC:726:ALA:HB2	2.15	0.68
1:B:534:HIS:O	1:AC:658:VAL:HG22	1.95	0.67
1:D:753:ILE:HG13	1:D:756:GLU:HB3	1.76	0.67
1:F:570:ASP:HA	1:F:573:LYS:HE3	1.76	0.67
1:H:8:ILE:HD12	1:H:16:ILE:HD11	1.76	0.67
1:H:791:GLU:HA	1:H:794:LYS:HE2	1.76	0.67
1:N:753:ILE:HG13	1:N:756:GLU:HB3	1.76	0.67
1:O:88:GLN:HB3	1:O:155:LYS:HD3	1.75	0.67
1:Q:570:ASP:HA	1:Q:573:LYS:HE3	1.76	0.67
1:R:88:GLN:HB3	1:R:155:LYS:HD3	1.75	0.67
1:W:753:ILE:HG13	1:W:756:GLU:HB3	1.76	0.67
1:GA:753:ILE:HG13	1:GA:756:GLU:HB3	1.76	0.67
1:IA:570:ASP:HA	1:IA:573:LYS:HE3	1.76	0.67
1:MA:88:GLN:HB3	1:MA:155:LYS:HD3	1.75	0.67
1:PA:37:ARG:HH21	1:PA:42:ARG:HD2	1.60	0.67
1:UA:219:VAL:HG21	1:UA:227:LEU:HD22	1.76	0.67
1:YA:791:GLU:HA	1:YA:794:LYS:HE2	1.76	0.67
1:EB:757:ALA:CB	1:FB:748:ALA:HB1	2.24	0.67
1:FB:592:HIS:ND1	1:GB:584:ALA:HB1	2.09	0.67
1:FB:662:ILE:CD1	1:GB:654:LEU:HD21	2.19	0.67
1:GB:219:VAL:HG21	1:GB:227:LEU:HD22	1.76	0.67
1:HB:753:ILE:HG13	1:HB:756:GLU:HB3	1.76	0.67
1:KB:8:ILE:HD12	1:KB:16:ILE:HD11	1.76	0.67
1:MB:791:GLU:HA	1:MB:794:LYS:HE2	1.76	0.67
1:OB:405:THR:H	1:PB:396:GLY:CA	2.06	0.67
1:RB:8:ILE:HD12	1:RB:16:ILE:HD11	1.76	0.67
1:UB:490:ASP:HB2	1:UB:493:GLU:HG3	1.77	0.67
1:VB:695:ASP:CG	1:WB:686:GLY:HA3	2.14	0.67
1:VB:791:GLU:HA	1:VB:794:LYS:HE2	1.76	0.67
1:WB:8:ILE:HD12	1:WB:16:ILE:HD11	1.76	0.67
1:WB:88:GLN:HB3	1:WB:155:LYS:HD3	1.75	0.67
1:XB:279:ARG:HD3	1:YB:337:LEU:HB3	1.76	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:749:GLN:O	1:C:744:ALA:HB3	1.94	0.67
1:A:771:ILE:CD1	1:C:763:LYS:CG	2.70	0.67
1:C:8:ILE:HD12	1:C:16:ILE:HD11	1.76	0.67
1:I:88:GLN:HB3	1:I:155:LYS:HD3	1.75	0.67
1:N:791:GLU:HA	1:N:794:LYS:HE2	1.76	0.67
1:R:570:ASP:HA	1:R:573:LYS:HE3	1.76	0.67
1:V:88:GLN:HB3	1:V:155:LYS:HD3	1.74	0.67
1:X:219:VAL:HG21	1:X:227:LEU:HD22	1.76	0.67
1:Z:377:ARG:NH1	1:Z:409:THR:O	2.20	0.67
1:AA:753:ILE:HG13	1:AA:756:GLU:HB3	1.76	0.67
1:DA:753:ILE:HG13	1:DA:756:GLU:HB3	1.76	0.67
1:HA:37:ARG:HH21	1:HA:42:ARG:HD2	1.60	0.67
1:HA:570:ASP:HA	1:HA:573:LYS:HE3	1.76	0.67
1:KA:490:ASP:HB2	1:KA:493:GLU:HG3	1.77	0.67
1:MA:570:ASP:HA	1:MA:573:LYS:HE3	1.76	0.67
1:QA:377:ARG:NH1	1:QA:409:THR:O	2.20	0.67
1:QA:570:ASP:HA	1:QA:573:LYS:HE3	1.76	0.67
1:RA:791:GLU:HA	1:RA:794:LYS:HE2	1.76	0.67
1:XA:8:ILE:HD12	1:XA:16:ILE:HD11	1.76	0.67
1:YA:570:ASP:HA	1:YA:573:LYS:HE3	1.76	0.67
1:ZA:791:GLU:HA	1:ZA:794:LYS:HE2	1.76	0.67
1:BB:219:VAL:HG21	1:BB:227:LEU:HD22	1.76	0.67
1:KB:37:ARG:HH21	1:KB:42:ARG:HD2	1.60	0.67
1:RB:753:ILE:HG13	1:RB:756:GLU:HB3	1.76	0.67
1:TB:219:VAL:HG21	1:TB:227:LEU:HD22	1.76	0.67
1:TB:791:GLU:HA	1:TB:794:LYS:HE2	1.76	0.67
1:WB:377:ARG:NH1	1:WB:409:THR:O	2.20	0.67
1:XB:219:VAL:HG21	1:XB:227:LEU:HD22	1.76	0.67
1:YB:37:ARG:HH21	1:YB:42:ARG:HD2	1.60	0.67
1:ZB:791:GLU:HA	1:ZB:794:LYS:HE2	1.76	0.67
1:A:746:LEU:HB3	1:C:737:GLY:O	1.94	0.67
1:B:693:ILE:HG21	1:AC:706:LEU:HD21	1.75	0.67
1:D:490:ASP:HB2	1:D:493:GLU:HG3	1.77	0.67
1:E:37:ARG:HH21	1:E:42:ARG:HD2	1.60	0.67
1:E:753:ILE:HG13	1:E:756:GLU:HB3	1.76	0.67
1:E:791:GLU:HA	1:E:794:LYS:HE2	1.76	0.67
1:H:219:VAL:HG21	1:H:227:LEU:HD22	1.76	0.67
1:I:791:GLU:HA	1:I:794:LYS:HE2	1.76	0.67
1:K:37:ARG:HH21	1:K:42:ARG:HD2	1.60	0.67
1:M:219:VAL:HG21	1:M:227:LEU:HD22	1.76	0.67
1:S:8:ILE:HD12	1:S:16:ILE:HD11	1.76	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:S:753:ILE:HG13	1:S:756:GLU:HB3	1.76	0.67
1:V:37:ARG:HH21	1:V:42:ARG:HD2	1.60	0.67
1:BA:753:ILE:HG13	1:BA:756:GLU:HB3	1.76	0.67
1:CA:219:VAL:HG21	1:CA:227:LEU:HD22	1.76	0.67
1:OA:490:ASP:HB2	1:OA:493:GLU:HG3	1.77	0.67
1:PA:753:ILE:HG13	1:PA:756:GLU:HB3	1.76	0.67
1:SA:490:ASP:HB2	1:SA:493:GLU:HG3	1.77	0.67
1:WA:8:ILE:HD12	1:WA:16:ILE:HD11	1.76	0.67
1:YA:88:GLN:HB3	1:YA:155:LYS:HD3	1.74	0.67
1:CB:490:ASP:HB2	1:CB:493:GLU:HG3	1.77	0.67
1:LB:717:GLU:HB2	1:MB:707:LEU:HB3	0.79	0.67
1:NB:490:ASP:HB2	1:NB:493:GLU:HG3	1.77	0.67
1:OB:490:ASP:HB2	1:OB:493:GLU:HG3	1.77	0.67
1:OB:520:PRO:HD2	1:PB:563:SER:C	2.15	0.67
1:OB:570:ASP:HA	1:OB:573:LYS:HE3	1.76	0.67
1:TB:37:ARG:HH21	1:TB:42:ARG:HD2	1.60	0.67
1:XB:654:LEU:HD13	1:YB:534:HIS:CD2	2.28	0.67
1:ZB:37:ARG:HH21	1:ZB:42:ARG:HD2	1.60	0.67
1:AC:570:ASP:HA	1:AC:573:LYS:HE3	1.76	0.67
1:A:768:MET:SD	1:C:759:LEU:HD12	2.35	0.67
1:B:219:VAL:HG21	1:B:227:LEU:HD22	1.76	0.67
1:D:381:PRO:HB3	1:F:393:VAL:C	2.14	0.67
1:E:219:VAL:HG21	1:E:227:LEU:HD22	1.76	0.67
1:G:490:ASP:HB2	1:G:493:GLU:HG3	1.77	0.67
1:H:88:GLN:HB3	1:H:155:LYS:HD3	1.75	0.67
1:L:791:GLU:HA	1:L:794:LYS:HE2	1.76	0.67
1:O:37:ARG:HH21	1:O:42:ARG:HD2	1.60	0.67
1:S:490:ASP:HB2	1:S:493:GLU:HG3	1.77	0.67
1:T:219:VAL:HG21	1:T:227:LEU:HD22	1.76	0.67
1:FA:570:ASP:HA	1:FA:573:LYS:HE3	1.76	0.67
1:NA:570:ASP:HA	1:NA:573:LYS:HE3	1.76	0.67
1:OA:791:GLU:HA	1:OA:794:LYS:HE2	1.76	0.67
1:SA:570:ASP:HA	1:SA:573:LYS:HE3	1.76	0.67
1:TA:219:VAL:HG21	1:TA:227:LEU:HD22	1.76	0.67
1:BB:791:GLU:HA	1:BB:794:LYS:HE2	1.76	0.67
1:IB:791:GLU:HA	1:IB:794:LYS:HE2	1.76	0.67
1:LB:542:ALA:CB	1:MB:573:LYS:HD2	2.24	0.67
1:LB:687:ARG:NH2	1:MB:679:ARG:CG	2.57	0.67
1:OB:746:LEU:HD13	1:PB:737:GLY:O	1.94	0.67
1:QB:37:ARG:HH21	1:QB:42:ARG:HD2	1.60	0.67
1:QB:219:VAL:HG21	1:QB:227:LEU:HD22	1.76	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:TB:570:ASP:HA	1:TB:573:LYS:HE3	1.76	0.67
1:UB:570:ASP:HA	1:UB:573:LYS:HE3	1.76	0.67
1:UB:764:LYS:NZ	1:VB:759:LEU:HB2	2.09	0.67
1:ZB:490:ASP:HB2	1:ZB:493:GLU:HG3	1.77	0.67
1:ZB:735:ILE:HG21	1:AC:727:GLU:N	2.09	0.67
1:A:711:ALA:CB	1:NB:720:GLY:HA3	2.23	0.67
1:B:37:ARG:HH21	1:B:42:ARG:HD2	1.60	0.67
1:C:37:ARG:HH21	1:C:42:ARG:HD2	1.60	0.67
1:C:790:VAL:HG22	1:E:785:GLN:CB	2.10	0.67
1:D:219:VAL:HG21	1:D:227:LEU:HD22	1.76	0.67
1:D:222:THR:HG22	1:F:247:GLU:CG	2.24	0.67
1:E:716:VAL:HG21	1:G:708:GLU:HG2	1.74	0.67
1:F:791:GLU:HA	1:F:794:LYS:HE2	1.76	0.67
1:P:570:ASP:HA	1:P:573:LYS:HE3	1.76	0.67
1:Q:791:GLU:HA	1:Q:794:LYS:HE2	1.76	0.67
1:W:791:GLU:HA	1:W:794:LYS:HE2	1.76	0.67
1:X:490:ASP:HB2	1:X:493:GLU:HG3	1.77	0.67
1:X:791:GLU:HA	1:X:794:LYS:HE2	1.76	0.67
1:Y:219:VAL:HG21	1:Y:227:LEU:HD22	1.76	0.67
1:AA:8:ILE:HD12	1:AA:16:ILE:HD11	1.76	0.67
1:BA:490:ASP:HB2	1:BA:493:GLU:HG3	1.77	0.67
1:BA:570:ASP:HA	1:BA:573:LYS:HE3	1.76	0.67
1:FA:219:VAL:HG21	1:FA:227:LEU:HD22	1.76	0.67
1:HA:88:GLN:HB3	1:HA:155:LYS:HD3	1.75	0.67
1:IA:37:ARG:HH21	1:IA:42:ARG:HD2	1.60	0.67
1:KA:753:ILE:HG13	1:KA:756:GLU:HB3	1.76	0.67
1:LA:570:ASP:HA	1:LA:573:LYS:HE3	1.76	0.67
1:TA:8:ILE:HD12	1:TA:16:ILE:HD11	1.76	0.67
1:AB:219:VAL:HG21	1:AB:227:LEU:HD22	1.76	0.67
1:AB:791:GLU:HA	1:AB:794:LYS:HE2	1.76	0.67
1:GB:37:ARG:HH21	1:GB:42:ARG:HD2	1.60	0.67
1:HB:570:ASP:HA	1:HB:573:LYS:HE3	1.76	0.67
1:JB:753:ILE:HG13	1:JB:756:GLU:HB3	1.76	0.67
1:LB:692:LYS:CG	1:MB:682:GLN:NE2	2.57	0.67
1:RB:739:GLY:HA2	1:SB:734:ARG:HH22	1.57	0.67
1:UB:37:ARG:HH21	1:UB:42:ARG:HD2	1.60	0.67
1:UB:749:GLN:CB	1:VB:744:ALA:CB	2.72	0.67
1:AC:791:GLU:HA	1:AC:794:LYS:HE2	1.76	0.67
1:A:757:ALA:HA	1:C:752:ALA:HB2	1.75	0.67
1:B:486:LEU:HB3	1:D:476:LYS:CE	2.25	0.67
1:D:327:SER:HB2	1:F:355:ASP:HA	1.77	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:88:GLN:HB3	1:E:155:LYS:HD3	1.75	0.67
1:N:8:ILE:HD12	1:N:16:ILE:HD11	1.76	0.67
1:R:666:THR:HG22	1:T:657:SER:HB2	1.76	0.67
1:S:219:VAL:HG21	1:S:227:LEU:HD22	1.76	0.67
1:AA:490:ASP:HB2	1:AA:493:GLU:HG3	1.77	0.67
1:HA:490:ASP:HB2	1:HA:493:GLU:HG3	1.77	0.67
1:JA:570:ASP:HA	1:JA:573:LYS:HE3	1.76	0.67
1:JA:791:GLU:HA	1:JA:794:LYS:HE2	1.76	0.67
1:KA:219:VAL:HG21	1:KA:227:LEU:HD22	1.76	0.67
1:NA:753:ILE:HG13	1:NA:756:GLU:HB3	1.76	0.67
1:PA:8:ILE:HD12	1:PA:16:ILE:HD11	1.76	0.67
1:TA:753:ILE:HG13	1:TA:756:GLU:HB3	1.76	0.67
1:UA:753:ILE:HG13	1:UA:756:GLU:HB3	1.76	0.67
1:UA:791:GLU:HA	1:UA:794:LYS:HE2	1.76	0.67
1:FB:88:GLN:HB3	1:FB:155:LYS:HD3	1.75	0.67
1:HB:490:ASP:HB2	1:HB:493:GLU:HG3	1.77	0.67
1:MB:728:SER:HB3	1:NB:718:SER:HB2	1.74	0.67
1:NB:791:GLU:HA	1:NB:794:LYS:HE2	1.76	0.67
1:PB:490:ASP:HB2	1:PB:493:GLU:HG3	1.77	0.67
1:SB:765:VAL:HG12	1:TB:759:LEU:HD13	1.77	0.67
1:VB:490:ASP:HB2	1:VB:493:GLU:HG3	1.77	0.67
1:YB:219:VAL:HG21	1:YB:227:LEU:HD22	1.76	0.67
1:A:219:VAL:HG21	1:A:227:LEU:HD22	1.76	0.67
1:A:695:ASP:CG	1:C:686:GLY:HA3	2.15	0.67
1:A:724:ALA:HA	1:C:718:SER:OG	1.95	0.67
1:B:8:ILE:HD12	1:B:16:ILE:HD11	1.76	0.67
1:B:757:ALA:HB2	1:D:748:ALA:HA	1.76	0.67
1:C:798:MET:HB2	1:E:792:ALA:CB	2.24	0.67
1:D:570:ASP:HA	1:D:573:LYS:HE3	1.76	0.67
1:J:8:ILE:HD12	1:J:16:ILE:HD11	1.76	0.67
1:L:490:ASP:HB2	1:L:493:GLU:HG3	1.77	0.67
1:O:8:ILE:HD12	1:O:16:ILE:HD11	1.76	0.67
1:Q:37:ARG:HH21	1:Q:42:ARG:HD2	1.60	0.67
1:Q:753:ILE:HG13	1:Q:756:GLU:HB3	1.76	0.67
1:Y:490:ASP:HB2	1:Y:493:GLU:HG3	1.77	0.67
1:Z:570:ASP:HA	1:Z:573:LYS:HE3	1.76	0.67
1:Z:753:ILE:HG13	1:Z:756:GLU:HB3	1.76	0.67
1:Z:791:GLU:HA	1:Z:794:LYS:HE2	1.76	0.67
1:GA:219:VAL:HG21	1:GA:227:LEU:HD22	1.76	0.67
1:NA:8:ILE:HD12	1:NA:16:ILE:HD11	1.76	0.67
1:QA:219:VAL:HG21	1:QA:227:LEU:HD22	1.76	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:RA:490:ASP:HB2	1:RA:493:GLU:HG3	1.77	0.67
1:TA:791:GLU:HA	1:TA:794:LYS:HE2	1.76	0.67
1:VA:490:ASP:HB2	1:VA:493:GLU:HG3	1.77	0.67
1:VA:570:ASP:HA	1:VA:573:LYS:HE3	1.76	0.67
1:WA:570:ASP:HA	1:WA:573:LYS:HE3	1.76	0.67
1:BB:490:ASP:HB2	1:BB:493:GLU:HG3	1.77	0.67
1:FB:62:ALA:N	1:FB:104:LEU:O	2.28	0.67
1:FB:171:ASN:OD1	1:GB:245:THR:HG21	1.95	0.67
1:HB:8:ILE:HD12	1:HB:16:ILE:HD11	1.76	0.67
1:LB:490:ASP:HB2	1:LB:493:GLU:HG3	1.77	0.67
1:LB:687:ARG:NH2	1:MB:679:ARG:HG3	2.09	0.67
1:RB:219:VAL:HG21	1:RB:227:LEU:HD22	1.76	0.67
1:UB:8:ILE:HD12	1:UB:16:ILE:HD11	1.76	0.67
1:ZB:797:GLU:OE1	1:AC:792:ALA:CB	2.37	0.67
1:C:791:GLU:HA	1:C:794:LYS:HE2	1.76	0.67
1:D:13:TYR:OH	1:F:82:ARG:HD3	1.94	0.67
1:D:275:THR:HG21	1:F:296:LEU:HB2	1.75	0.67
1:H:37:ARG:HH21	1:H:42:ARG:HD2	1.60	0.67
1:J:37:ARG:HH21	1:J:42:ARG:HD2	1.60	0.67
1:N:62:ALA:N	1:N:104:LEU:O	2.28	0.67
1:R:8:ILE:HD12	1:R:16:ILE:HD11	1.76	0.67
1:R:595:SER:HB3	1:T:580:ARG:HH12	1.58	0.67
1:S:791:GLU:HA	1:S:794:LYS:HE2	1.76	0.67
1:V:377:ARG:NH1	1:V:409:THR:O	2.20	0.67
1:Y:37:ARG:HH21	1:Y:42:ARG:HD2	1.60	0.67
1:BA:37:ARG:HH21	1:BA:42:ARG:HD2	1.60	0.67
1:GA:37:ARG:HH21	1:GA:42:ARG:HD2	1.60	0.67
1:GA:490:ASP:HB2	1:GA:493:GLU:HG3	1.77	0.67
1:HA:8:ILE:HD12	1:HA:16:ILE:HD11	1.76	0.67
1:JA:88:GLN:HB3	1:JA:155:LYS:HD3	1.75	0.67
1:LA:490:ASP:HB2	1:LA:493:GLU:HG3	1.77	0.67
1:MA:219:VAL:HG21	1:MA:227:LEU:HD22	1.76	0.67
1:MA:791:GLU:HA	1:MA:794:LYS:HE2	1.76	0.67
1:NA:219:VAL:HG21	1:NA:227:LEU:HD22	1.76	0.67
1:PA:490:ASP:HB2	1:PA:493:GLU:HG3	1.77	0.67
1:SA:8:ILE:HD12	1:SA:16:ILE:HD11	1.76	0.67
1:SA:219:VAL:HG21	1:SA:227:LEU:HD22	1.76	0.67
1:YA:37:ARG:HH21	1:YA:42:ARG:HD2	1.60	0.67
1:BB:753:ILE:HG13	1:BB:756:GLU:HB3	1.76	0.67
1:FB:405:THR:HG21	1:GB:395:THR:HA	1.76	0.67
1:LB:570:ASP:HA	1:LB:573:LYS:HE3	1.76	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:LB:706:LEU:HD11	1:MB:696:GLN:C	2.15	0.67
1:LB:717:GLU:O	1:MB:711:ALA:HB2	1.95	0.67
1:MB:377:ARG:NH1	1:MB:409:THR:O	2.20	0.67
1:OB:695:ASP:CB	1:PB:686:GLY:HA2	2.25	0.67
1:SB:37:ARG:HH21	1:SB:42:ARG:HD2	1.60	0.67
1:VB:8:ILE:HD12	1:VB:16:ILE:HD11	1.76	0.67
1:VB:37:ARG:HH21	1:VB:42:ARG:HD2	1.60	0.67
1:VB:88:GLN:HB3	1:VB:155:LYS:HD3	1.75	0.67
1:YB:791:GLU:HA	1:YB:794:LYS:HE2	1.76	0.67
1:A:62:ALA:N	1:A:104:LEU:O	2.28	0.67
1:B:85:HIS:CE1	1:AC:49:ARG:NH2	2.62	0.67
1:B:791:GLU:HA	1:B:794:LYS:HE2	1.76	0.67
1:C:790:VAL:CG2	1:E:781:VAL:HG13	2.25	0.67
1:D:461:ARG:NH1	1:F:473:TYR:HD2	1.92	0.67
1:G:62:ALA:N	1:G:104:LEU:O	2.28	0.67
1:H:62:ALA:N	1:H:104:LEU:O	2.28	0.67
1:I:37:ARG:HH21	1:I:42:ARG:HD2	1.60	0.67
1:R:791:GLU:HA	1:R:794:LYS:HE2	1.76	0.67
1:Y:62:ALA:N	1:Y:104:LEU:O	2.28	0.67
1:BA:8:ILE:HD12	1:BA:16:ILE:HD11	1.76	0.67
1:DA:37:ARG:HH21	1:DA:42:ARG:HD2	1.60	0.67
1:DA:791:GLU:HA	1:DA:794:LYS:HE2	1.76	0.67
1:EA:8:ILE:HD12	1:EA:16:ILE:HD11	1.76	0.67
1:KA:62:ALA:N	1:KA:104:LEU:O	2.28	0.67
1:NA:791:GLU:HA	1:NA:794:LYS:HE2	1.76	0.67
1:OA:37:ARG:HH21	1:OA:42:ARG:HD2	1.60	0.67
1:PA:62:ALA:N	1:PA:104:LEU:O	2.28	0.67
1:PA:791:GLU:HA	1:PA:794:LYS:HE2	1.76	0.67
1:UA:570:ASP:HA	1:UA:573:LYS:HE3	1.76	0.67
1:WA:62:ALA:N	1:WA:104:LEU:O	2.28	0.67
1:DB:219:VAL:HG21	1:DB:227:LEU:HD22	1.76	0.67
1:GB:62:ALA:N	1:GB:104:LEU:O	2.28	0.67
1:GB:490:ASP:HB2	1:GB:493:GLU:HG3	1.77	0.67
1:JB:490:ASP:HB2	1:JB:493:GLU:HG3	1.77	0.67
1:LB:753:ILE:HG13	1:LB:756:GLU:HB3	1.76	0.67
1:MB:37:ARG:HH21	1:MB:42:ARG:HD2	1.60	0.67
1:OB:62:ALA:N	1:OB:104:LEU:O	2.28	0.67
1:OB:277:GLY:CA	1:PB:297:GLY:O	2.39	0.67
1:OB:746:LEU:CD1	1:PB:737:GLY:C	2.63	0.67
1:PB:791:GLU:HA	1:PB:794:LYS:HE2	1.76	0.67
1:RB:490:ASP:HB2	1:RB:493:GLU:HG3	1.77	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:TB:753:ILE:HG13	1:TB:756:GLU:HB3	1.76	0.67
1:WB:37:ARG:HH21	1:WB:42:ARG:HD2	1.60	0.67
1:WB:219:VAL:HG21	1:WB:227:LEU:HD22	1.76	0.67
1:WB:791:GLU:HA	1:WB:794:LYS:HE2	1.76	0.67
1:XB:753:ILE:HG13	1:XB:756:GLU:HB3	1.76	0.67
1:ZB:8:ILE:HD12	1:ZB:16:ILE:HD11	1.76	0.67
1:A:746:LEU:CB	1:C:737:GLY:C	2.62	0.67
1:B:62:ALA:N	1:B:104:LEU:O	2.28	0.67
1:B:490:ASP:HB2	1:B:493:GLU:HG3	1.77	0.67
1:B:785:GLN:HE22	1:AC:793:LYS:HZ1	0.74	0.67
1:B:786:GLN:CD	1:D:781:VAL:CG2	2.61	0.67
1:D:325:VAL:CG1	1:F:353:ALA:C	2.60	0.67
1:E:8:ILE:HD12	1:E:16:ILE:HD11	1.76	0.67
1:L:219:VAL:HG21	1:L:227:LEU:HD22	1.76	0.67
1:V:8:ILE:HD12	1:V:16:ILE:HD11	1.76	0.67
1:W:37:ARG:HH21	1:W:42:ARG:HD2	1.60	0.67
1:Y:791:GLU:HA	1:Y:794:LYS:HE2	1.76	0.67
1:KA:8:ILE:HD12	1:KA:16:ILE:HD11	1.76	0.67
1:QA:37:ARG:HH21	1:QA:42:ARG:HD2	1.60	0.67
1:SA:62:ALA:N	1:SA:104:LEU:O	2.28	0.67
1:AB:8:ILE:HD12	1:AB:16:ILE:HD11	1.76	0.67
1:AB:490:ASP:HB2	1:AB:493:GLU:HG3	1.77	0.67
1:FB:461:ARG:NH1	1:GB:494:GLN:CG	2.57	0.67
1:FB:490:ASP:HB2	1:FB:493:GLU:HG3	1.77	0.67
1:KB:62:ALA:N	1:KB:104:LEU:O	2.28	0.67
1:LB:8:ILE:HD12	1:LB:16:ILE:HD11	1.76	0.67
1:OB:695:ASP:CG	1:PB:686:GLY:HA2	2.15	0.67
1:PB:753:ILE:HG13	1:PB:756:GLU:HB3	1.76	0.67
1:TB:8:ILE:HD12	1:TB:16:ILE:HD11	1.76	0.67
1:A:490:ASP:HB2	1:A:493:GLU:HG3	1.77	0.66
1:B:486:LEU:CA	1:D:476:LYS:HZ3	2.07	0.66
1:D:32:PRO:HB2	1:F:78:THR:HG21	1.74	0.66
1:M:490:ASP:HB2	1:M:493:GLU:HG3	1.77	0.66
1:N:570:ASP:HA	1:N:573:LYS:HE3	1.76	0.66
1:O:490:ASP:HB2	1:O:493:GLU:HG3	1.77	0.66
1:P:62:ALA:N	1:P:104:LEU:O	2.28	0.66
1:T:490:ASP:HB2	1:T:493:GLU:HG3	1.77	0.66
1:BA:62:ALA:N	1:BA:104:LEU:O	2.28	0.66
1:IA:791:GLU:HA	1:IA:794:LYS:HE2	1.76	0.66
1:XA:377:ARG:NH1	1:XA:409:THR:O	2.20	0.66
1:ZA:62:ALA:N	1:ZA:104:LEU:O	2.28	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:BB:717:GLU:HB2	1:CB:707:LEU:CD1	2.22	0.66
1:HB:37:ARG:HH21	1:HB:42:ARG:HD2	1.60	0.66
1:LB:791:GLU:HA	1:LB:794:LYS:HE2	1.76	0.66
1:MB:570:ASP:HA	1:MB:573:LYS:HE3	1.76	0.66
1:OB:37:ARG:HH21	1:OB:42:ARG:HD2	1.60	0.66
1:OB:790:VAL:HG13	1:PB:788:ALA:HB2	1.76	0.66
1:RB:37:ARG:HH21	1:RB:42:ARG:HD2	1.60	0.66
1:SB:728:SER:CA	1:TB:719:THR:HA	2.20	0.66
1:VB:219:VAL:HG21	1:VB:227:LEU:HD22	1.76	0.66
1:VB:753:ILE:HG13	1:VB:756:GLU:HB3	1.76	0.66
1:YB:570:ASP:HA	1:YB:573:LYS:HE3	1.76	0.66
1:AC:62:ALA:N	1:AC:104:LEU:O	2.28	0.66
1:A:570:ASP:HA	1:A:573:LYS:HE3	1.76	0.66
1:B:570:ASP:HA	1:B:573:LYS:HE3	1.76	0.66
1:C:490:ASP:HB2	1:C:493:GLU:HG3	1.77	0.66
1:C:813:ALA:HA	1:E:811:ALA:HB1	1.75	0.66
1:D:37:ARG:HH21	1:D:42:ARG:HD2	1.60	0.66
1:D:167:VAL:CG2	1:F:192:THR:CB	2.72	0.66
1:D:791:GLU:HA	1:D:794:LYS:HE2	1.76	0.66
1:I:490:ASP:HB2	1:I:493:GLU:HG3	1.77	0.66
1:K:39:ASP:N	1:UB:38:GLN:CB	2.58	0.66
1:K:753:ILE:HG13	1:K:756:GLU:HB3	1.76	0.66
1:L:62:ALA:N	1:L:104:LEU:O	2.28	0.66
1:M:62:ALA:N	1:M:104:LEU:O	2.28	0.66
1:T:37:ARG:HH21	1:T:42:ARG:HD2	1.60	0.66
1:Y:753:ILE:HG13	1:Y:756:GLU:HB3	1.76	0.66
1:EA:62:ALA:N	1:EA:104:LEU:O	2.28	0.66
1:HA:791:GLU:HA	1:HA:794:LYS:HE2	1.76	0.66
1:KA:570:ASP:HA	1:KA:573:LYS:HE3	1.76	0.66
1:KA:782:SER:HA	1:KA:785:GLN:HB3	1.78	0.66
1:MA:782:SER:HA	1:MA:785:GLN:HB3	1.78	0.66
1:TA:570:ASP:HA	1:TA:573:LYS:HE3	1.76	0.66
1:UA:37:ARG:HH21	1:UA:42:ARG:HD2	1.60	0.66
1:XA:490:ASP:HB2	1:XA:493:GLU:HG3	1.77	0.66
1:YA:62:ALA:N	1:YA:104:LEU:O	2.28	0.66
1:CB:62:ALA:N	1:CB:104:LEU:O	2.28	0.66
1:CB:753:ILE:HG13	1:CB:756:GLU:HB3	1.76	0.66
1:DB:62:ALA:N	1:DB:104:LEU:O	2.28	0.66
1:FB:219:VAL:HG21	1:FB:227:LEU:HD22	1.76	0.66
1:HB:62:ALA:N	1:HB:104:LEU:O	2.28	0.66
1:IB:570:ASP:HA	1:IB:573:LYS:HE3	1.76	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:LB:687:ARG:NH2	1:MB:679:ARG:HD2	2.06	0.66
1:LB:706:LEU:CD2	1:MB:697:SER:CB	2.73	0.66
1:NB:782:SER:HA	1:NB:785:GLN:HB3	1.78	0.66
1:OB:327:SER:CB	1:PB:356:CYS:SG	2.83	0.66
1:SB:490:ASP:HB2	1:SB:493:GLU:HG3	1.77	0.66
1:VB:775:ALA:HB2	1:WB:770:LEU:CD1	2.13	0.66
1:ZB:62:ALA:N	1:ZB:104:LEU:O	2.28	0.66
1:AC:490:ASP:HB2	1:AC:493:GLU:HG3	1.77	0.66
1:A:8:ILE:HD12	1:A:16:ILE:HD11	1.76	0.66
1:A:37:ARG:HH21	1:A:42:ARG:HD2	1.60	0.66
1:C:772:TYR:CZ	1:E:766:ARG:HD3	2.30	0.66
1:H:490:ASP:HB2	1:H:493:GLU:HG3	1.77	0.66
1:J:753:ILE:HG13	1:J:756:GLU:HB3	1.76	0.66
1:K:62:ALA:N	1:K:104:LEU:O	2.28	0.66
1:K:791:GLU:HA	1:K:794:LYS:HE2	1.76	0.66
1:N:219:VAL:HG21	1:N:227:LEU:HD22	1.76	0.66
1:O:791:GLU:HA	1:O:794:LYS:HE2	1.76	0.66
1:X:37:ARG:HH21	1:X:42:ARG:HD2	1.60	0.66
1:X:570:ASP:HA	1:X:573:LYS:HE3	1.76	0.66
1:DA:8:ILE:HD12	1:DA:16:ILE:HD11	1.76	0.66
1:GA:62:ALA:N	1:GA:104:LEU:O	2.28	0.66
1:HA:753:ILE:HG13	1:HA:756:GLU:HB3	1.76	0.66
1:IA:169:LYS:NZ	1:KA:194:GLU:HG3	2.10	0.66
1:JA:62:ALA:N	1:JA:104:LEU:O	2.28	0.66
1:PA:219:VAL:HG21	1:PA:227:LEU:HD22	1.76	0.66
1:WA:490:ASP:HB2	1:WA:493:GLU:HG3	1.77	0.66
1:AB:753:ILE:HG13	1:AB:756:GLU:HB3	1.76	0.66
1:AB:782:SER:HA	1:AB:785:GLN:HB3	1.78	0.66
1:EB:8:ILE:HD12	1:EB:16:ILE:HD11	1.76	0.66
1:JB:782:SER:HA	1:JB:785:GLN:HB3	1.78	0.66
1:MB:753:ILE:HG22	1:NB:744:ALA:CB	2.19	0.66
1:MB:790:VAL:HG21	1:NB:784:ALA:HB3	1.76	0.66
1:NB:37:ARG:HH21	1:NB:42:ARG:HD2	1.60	0.66
1:OB:328:GLU:CG	1:PB:394:LYS:HE2	2.20	0.66
1:UB:691:GLN:HE22	1:VB:679:ARG:CZ	2.08	0.66
1:UB:806:THR:CA	1:VB:808:ARG:NH1	2.59	0.66
1:VB:750:ALA:CA	1:WB:744:ALA:CB	2.72	0.66
1:B:782:SER:HA	1:B:785:GLN:HB3	1.78	0.66
1:C:62:ALA:N	1:C:104:LEU:O	2.28	0.66
1:C:801:ALA:HB1	1:E:796:LYS:NZ	2.11	0.66
1:F:62:ALA:N	1:F:104:LEU:O	2.28	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:791:GLU:HA	1:G:794:LYS:HE2	1.76	0.66
1:J:219:VAL:HG21	1:J:227:LEU:HD22	1.76	0.66
1:P:490:ASP:HB2	1:P:493:GLU:HG3	1.77	0.66
1:P:753:ILE:HG13	1:P:756:GLU:HB3	1.76	0.66
1:P:791:GLU:HA	1:P:794:LYS:HE2	1.76	0.66
1:Q:490:ASP:HB2	1:Q:493:GLU:HG3	1.77	0.66
1:IA:490:ASP:HB2	1:IA:493:GLU:HG3	1.77	0.66
1:JA:490:ASP:HB2	1:JA:493:GLU:HG3	1.77	0.66
1:MA:37:ARG:HH21	1:MA:42:ARG:HD2	1.60	0.66
1:OA:62:ALA:N	1:OA:104:LEU:O	2.28	0.66
1:OA:753:ILE:HG13	1:OA:756:GLU:HB3	1.76	0.66
1:TA:37:ARG:HH21	1:TA:42:ARG:HD2	1.60	0.66
1:TA:782:SER:HA	1:TA:785:GLN:HB3	1.78	0.66
1:UA:490:ASP:HB2	1:UA:493:GLU:HG3	1.77	0.66
1:VA:782:SER:HA	1:VA:785:GLN:HB3	1.78	0.66
1:VA:791:GLU:HA	1:VA:794:LYS:HE2	1.76	0.66
1:XA:782:SER:HA	1:XA:785:GLN:HB3	1.78	0.66
1:IB:62:ALA:N	1:IB:104:LEU:O	2.28	0.66
1:IB:782:SER:HA	1:IB:785:GLN:HB3	1.78	0.66
1:NB:753:ILE:HG13	1:NB:756:GLU:HB3	1.76	0.66
1:PB:37:ARG:HH21	1:PB:42:ARG:HD2	1.60	0.66
1:QB:570:ASP:HA	1:QB:573:LYS:HE3	1.76	0.66
1:SB:62:ALA:N	1:SB:104:LEU:O	2.28	0.66
1:TB:62:ALA:N	1:TB:104:LEU:O	2.28	0.66
1:WB:177:ARG:HG3	1:WB:195:GLU:HG2	1.78	0.66
1:XB:782:SER:HA	1:XB:785:GLN:HB3	1.78	0.66
1:YB:62:ALA:N	1:YB:104:LEU:O	2.28	0.66
1:A:709:LEU:HD12	1:C:701:LYS:HG3	1.76	0.66
1:A:717:GLU:HB2	1:C:707:LEU:HD22	1.77	0.66
1:A:727:GLU:HB3	1:C:719:THR:CB	2.26	0.66
1:B:177:ARG:HG3	1:B:195:GLU:HG2	1.78	0.66
1:D:177:ARG:HG3	1:D:195:GLU:HG2	1.78	0.66
1:D:275:THR:CG2	1:F:296:LEU:HB2	2.25	0.66
1:E:490:ASP:HB2	1:E:493:GLU:HG3	1.77	0.66
1:H:570:ASP:HA	1:H:573:LYS:HE3	1.76	0.66
1:H:782:SER:HA	1:H:785:GLN:HB3	1.78	0.66
1:N:782:SER:HA	1:N:785:GLN:HB3	1.78	0.66
1:P:768:MET:CE	1:R:763:LYS:CG	2.71	0.66
1:P:782:SER:HA	1:P:785:GLN:HB3	1.78	0.66
1:T:177:ARG:HG3	1:T:195:GLU:HG2	1.78	0.66
1:V:62:ALA:N	1:V:104:LEU:O	2.28	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:V:219:VAL:HG21	1:V:227:LEU:HD22	1.76	0.66
1:W:62:ALA:N	1:W:104:LEU:O	2.28	0.66
1:X:62:ALA:N	1:X:104:LEU:O	2.28	0.66
1:Z:37:ARG:HH21	1:Z:42:ARG:HD2	1.60	0.66
1:AA:62:ALA:N	1:AA:104:LEU:O	2.28	0.66
1:CA:791:GLU:HA	1:CA:794:LYS:HE2	1.76	0.66
1:FA:8:ILE:HD12	1:FA:16:ILE:HD11	1.76	0.66
1:FA:62:ALA:N	1:FA:104:LEU:O	2.28	0.66
1:KA:791:GLU:HA	1:KA:794:LYS:HE2	1.76	0.66
1:LA:62:ALA:N	1:LA:104:LEU:O	2.28	0.66
1:OA:377:ARG:NH1	1:OA:409:THR:O	2.20	0.66
1:QA:791:GLU:HA	1:QA:794:LYS:HE2	1.76	0.66
1:RA:62:ALA:N	1:RA:104:LEU:O	2.28	0.66
1:UA:782:SER:HA	1:UA:785:GLN:HB3	1.78	0.66
1:VA:62:ALA:N	1:VA:104:LEU:O	2.28	0.66
1:FB:791:GLU:HA	1:FB:794:LYS:HE2	1.76	0.66
1:LB:177:ARG:HG3	1:LB:195:GLU:HG2	1.78	0.66
1:OB:224:LYS:HZ1	1:PB:248:GLU:CD	1.98	0.66
1:OB:790:VAL:HG13	1:PB:788:ALA:CB	2.24	0.66
1:VB:62:ALA:N	1:VB:104:LEU:O	2.28	0.66
1:WB:62:ALA:N	1:WB:104:LEU:O	2.28	0.66
1:YB:782:SER:HA	1:YB:785:GLN:HB3	1.78	0.66
1:AC:782:SER:HA	1:AC:785:GLN:HB3	1.78	0.66
1:A:724:ALA:CB	1:C:714:MET:SD	2.82	0.66
1:A:791:GLU:HA	1:A:794:LYS:HE2	1.76	0.66
1:B:753:ILE:HG13	1:B:756:GLU:HB3	1.76	0.66
1:C:570:ASP:HA	1:C:573:LYS:HE3	1.76	0.66
1:D:11:PRO:HA	1:F:80:GLN:CG	2.26	0.66
1:D:377:ARG:NH1	1:D:409:THR:O	2.20	0.66
1:E:782:SER:HA	1:E:785:GLN:HB3	1.78	0.66
1:K:490:ASP:HB2	1:K:493:GLU:HG3	1.77	0.66
1:N:490:ASP:HB2	1:N:493:GLU:HG3	1.77	0.66
1:O:570:ASP:HA	1:O:573:LYS:HE3	1.76	0.66
1:Q:782:SER:HA	1:Q:785:GLN:HB3	1.78	0.66
1:R:490:ASP:HB2	1:R:493:GLU:HG3	1.77	0.66
1:R:595:SER:HB2	1:T:580:ARG:HH12	1.57	0.66
1:V:177:ARG:HG3	1:V:195:GLU:HG2	1.78	0.66
1:X:177:ARG:HG3	1:X:195:GLU:HG2	1.78	0.66
1:BA:219:VAL:HG21	1:BA:227:LEU:HD22	1.76	0.66
1:CA:490:ASP:HB2	1:CA:493:GLU:HG3	1.76	0.66
1:FA:791:GLU:HA	1:FA:794:LYS:HE2	1.76	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:JA:37:ARG:HH21	1:JA:42:ARG:HD2	1.60	0.66
1:LA:37:ARG:HH21	1:LA:42:ARG:HD2	1.60	0.66
1:QA:62:ALA:N	1:QA:104:LEU:O	2.28	0.66
1:RA:219:VAL:HG21	1:RA:227:LEU:HD22	1.76	0.66
1:SA:37:ARG:HH21	1:SA:42:ARG:HD2	1.60	0.66
1:UA:177:ARG:HG3	1:UA:195:GLU:HG2	1.78	0.66
1:YA:219:VAL:HG21	1:YA:227:LEU:HD22	1.76	0.66
1:YA:782:SER:HA	1:YA:785:GLN:HB3	1.78	0.66
1:ZA:219:VAL:HG21	1:ZA:227:LEU:HD22	1.76	0.66
1:AB:62:ALA:N	1:AB:104:LEU:O	2.28	0.66
1:AB:687:ARG:HH12	1:OB:679:ARG:NH1	1.94	0.66
1:DB:8:ILE:HD12	1:DB:16:ILE:HD11	1.76	0.66
1:DB:490:ASP:HB2	1:DB:493:GLU:HG3	1.77	0.66
1:EB:37:ARG:HH21	1:EB:42:ARG:HD2	1.60	0.66
1:EB:791:GLU:HA	1:EB:794:LYS:HE2	1.76	0.66
1:IB:490:ASP:HB2	1:IB:493:GLU:HG3	1.77	0.66
1:LB:37:ARG:HH21	1:LB:42:ARG:HD2	1.60	0.66
1:LB:62:ALA:N	1:LB:104:LEU:O	2.28	0.66
1:PB:570:ASP:HA	1:PB:573:LYS:HE3	1.76	0.66
1:SB:8:ILE:HD12	1:SB:16:ILE:HD11	1.76	0.66
1:ZB:219:VAL:HG21	1:ZB:227:LEU:HD22	1.76	0.66
1:B:706:LEU:HD21	1:D:693:ILE:CG2	2.13	0.66
1:F:177:ARG:HG3	1:F:195:GLU:HG2	1.78	0.66
1:F:782:SER:HA	1:F:785:GLN:HB3	1.78	0.66
1:I:570:ASP:HA	1:I:573:LYS:HE3	1.76	0.66
1:J:490:ASP:HB2	1:J:493:GLU:HG3	1.77	0.66
1:K:782:SER:HA	1:K:785:GLN:HB3	1.78	0.66
1:N:37:ARG:HH21	1:N:42:ARG:HD2	1.60	0.66
1:R:177:ARG:HG3	1:R:195:GLU:HG2	1.78	0.66
1:S:37:ARG:HH21	1:S:42:ARG:HD2	1.60	0.66
1:T:62:ALA:N	1:T:104:LEU:O	2.28	0.66
1:W:219:VAL:HG21	1:W:227:LEU:HD22	1.76	0.66
1:X:753:ILE:HG13	1:X:756:GLU:HB3	1.76	0.66
1:Z:62:ALA:N	1:Z:104:LEU:O	2.28	0.66
1:Z:219:VAL:HG21	1:Z:227:LEU:HD22	1.76	0.66
1:Z:490:ASP:HB2	1:Z:493:GLU:HG3	1.77	0.66
1:BA:791:GLU:HA	1:BA:794:LYS:HE2	1.76	0.66
1:DA:62:ALA:N	1:DA:104:LEU:O	2.28	0.66
1:FA:782:SER:HA	1:FA:785:GLN:HB3	1.78	0.66
1:HA:219:VAL:HG21	1:HA:227:LEU:HD22	1.76	0.66
1:QA:177:ARG:HG3	1:QA:195:GLU:HG2	1.78	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:RA:37:ARG:HH21	1:RA:42:ARG:HD2	1.60	0.66
1:WA:37:ARG:HH21	1:WA:42:ARG:HD2	1.60	0.66
1:YA:8:ILE:HD12	1:YA:16:ILE:HD11	1.76	0.66
1:EB:377:ARG:NH1	1:EB:409:THR:O	2.20	0.66
1:IB:37:ARG:HH21	1:IB:42:ARG:HD2	1.60	0.66
1:MB:62:ALA:N	1:MB:104:LEU:O	2.28	0.66
1:NB:62:ALA:N	1:NB:104:LEU:O	2.28	0.66
1:QB:490:ASP:HB2	1:QB:493:GLU:HG3	1.77	0.66
1:RB:695:ASP:CG	1:SB:686:GLY:HA3	2.16	0.66
1:RB:791:GLU:HA	1:RB:794:LYS:HE2	1.76	0.66
1:SB:791:GLU:HA	1:SB:794:LYS:HE2	1.76	0.66
1:TB:782:SER:HA	1:TB:785:GLN:HB3	1.78	0.66
1:VB:687:ARG:NH1	1:WB:679:ARG:HH11	1.94	0.66
1:XB:62:ALA:N	1:XB:104:LEU:O	2.28	0.66
1:XB:570:ASP:HA	1:XB:573:LYS:HE3	1.76	0.66
1:AC:177:ARG:HG3	1:AC:195:GLU:HG2	1.78	0.66
1:C:783:LYS:CA	1:E:777:LEU:CD1	2.72	0.66
1:G:753:ILE:HG13	1:G:756:GLU:HB3	1.76	0.66
1:J:62:ALA:N	1:J:104:LEU:O	2.28	0.66
1:L:806:THR:HG22	1:N:804:PRO:CA	2.26	0.66
1:M:37:ARG:HH21	1:M:42:ARG:HD2	1.60	0.66
1:O:62:ALA:N	1:O:104:LEU:O	2.28	0.66
1:S:62:ALA:N	1:S:104:LEU:O	2.28	0.66
1:T:791:GLU:HA	1:T:794:LYS:HE2	1.76	0.66
1:V:490:ASP:HB2	1:V:493:GLU:HG3	1.77	0.66
1:X:782:SER:HA	1:X:785:GLN:HB3	1.78	0.66
1:AA:392:ASP:O	1:AA:396:GLY:N	2.29	0.66
1:AA:791:GLU:HA	1:AA:794:LYS:HE2	1.76	0.66
1:DA:782:SER:HA	1:DA:785:GLN:HB3	1.78	0.66
1:FA:392:ASP:O	1:FA:396:GLY:N	2.29	0.66
1:FA:490:ASP:HB2	1:FA:493:GLU:HG3	1.77	0.66
1:GA:791:GLU:HA	1:GA:794:LYS:HE2	1.76	0.66
1:HA:377:ARG:NH1	1:HA:409:THR:O	2.20	0.66
1:JA:177:ARG:HG3	1:JA:195:GLU:HG2	1.78	0.66
1:JA:782:SER:HA	1:JA:785:GLN:HB3	1.78	0.66
1:KA:37:ARG:HH21	1:KA:42:ARG:HD2	1.60	0.66
1:LA:392:ASP:O	1:LA:396:GLY:N	2.29	0.66
1:QA:490:ASP:HB2	1:QA:493:GLU:HG3	1.77	0.66
1:TA:490:ASP:HB2	1:TA:493:GLU:HG3	1.77	0.66
1:UA:377:ARG:NH1	1:UA:409:THR:O	2.20	0.66
1:WA:791:GLU:HA	1:WA:794:LYS:HE2	1.76	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:ZA:37:ARG:HH21	1:ZA:42:ARG:HD2	1.60	0.66
1:AB:37:ARG:HH21	1:AB:42:ARG:HD2	1.60	0.66
1:BB:62:ALA:N	1:BB:104:LEU:O	2.28	0.66
1:EB:490:ASP:HB2	1:EB:493:GLU:HG3	1.77	0.66
1:GB:791:GLU:HA	1:GB:794:LYS:HE2	1.76	0.66
1:HB:782:SER:HA	1:HB:785:GLN:HB3	1.78	0.66
1:IB:219:VAL:HG21	1:IB:227:LEU:HD22	1.76	0.66
1:MB:219:VAL:HG21	1:MB:227:LEU:HD22	1.76	0.66
1:OB:385:ASN:ND2	1:PB:473:TYR:C	2.49	0.66
1:OB:405:THR:HB	1:PB:396:GLY:HA2	1.77	0.66
1:OB:790:VAL:HG22	1:PB:788:ALA:CB	2.26	0.66
1:XB:490:ASP:HB2	1:XB:493:GLU:HG3	1.77	0.66
1:AC:37:ARG:HH21	1:AC:42:ARG:HD2	1.60	0.66
1:D:203:ALA:CB	1:F:181:GLU:HB2	2.26	0.66
1:E:62:ALA:N	1:E:104:LEU:O	2.28	0.66
1:J:791:GLU:HA	1:J:794:LYS:HE2	1.76	0.66
1:L:37:ARG:HH21	1:L:42:ARG:HD2	1.60	0.66
1:M:8:ILE:HD12	1:M:16:ILE:HD11	1.76	0.66
1:R:37:ARG:HH21	1:R:42:ARG:HD2	1.60	0.66
1:R:782:SER:HA	1:R:785:GLN:HB3	1.78	0.66
1:S:392:ASP:O	1:S:396:GLY:N	2.29	0.66
1:BA:177:ARG:HG3	1:BA:195:GLU:HG2	1.78	0.66
1:IA:275:THR:HG21	1:KA:296:LEU:HB3	1.77	0.66
1:WA:177:ARG:HG3	1:WA:195:GLU:HG2	1.78	0.66
1:WA:219:VAL:HG21	1:WA:227:LEU:HD22	1.76	0.66
1:CB:392:ASP:O	1:CB:396:GLY:N	2.29	0.66
1:CB:791:GLU:HA	1:CB:794:LYS:HE2	1.76	0.66
1:DB:791:GLU:HA	1:DB:794:LYS:HE2	1.76	0.66
1:GB:177:ARG:HG3	1:GB:195:GLU:HG2	1.78	0.66
1:KB:177:ARG:HG3	1:KB:195:GLU:HG2	1.78	0.66
1:LB:219:VAL:HG21	1:LB:227:LEU:HD22	1.76	0.66
1:OB:791:GLU:HA	1:OB:794:LYS:HE2	1.76	0.66
1:PB:392:ASP:O	1:PB:396:GLY:N	2.29	0.66
1:RB:62:ALA:N	1:RB:104:LEU:O	2.28	0.66
1:SB:392:ASP:O	1:SB:396:GLY:N	2.29	0.66
1:UB:392:ASP:O	1:UB:396:GLY:N	2.29	0.66
1:VB:177:ARG:HG3	1:VB:195:GLU:HG2	1.78	0.66
1:WB:490:ASP:HB2	1:WB:493:GLU:HG3	1.77	0.66
1:XB:177:ARG:HG3	1:XB:195:GLU:HG2	1.78	0.66
1:B:797:GLU:CB	1:D:792:ALA:HB1	2.26	0.66
1:C:790:VAL:HG23	1:E:781:VAL:CG1	2.26	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:32:PRO:HG2	1:F:78:THR:HG22	1.77	0.66
1:D:62:ALA:N	1:D:104:LEU:O	2.28	0.66
1:F:490:ASP:HB2	1:F:493:GLU:HG3	1.77	0.66
1:G:37:ARG:HH21	1:G:42:ARG:HD2	1.60	0.66
1:Q:62:ALA:N	1:Q:104:LEU:O	2.28	0.66
1:W:177:ARG:HG3	1:W:195:GLU:HG2	1.78	0.66
1:W:490:ASP:HB2	1:W:493:GLU:HG3	1.77	0.66
1:Z:177:ARG:HG3	1:Z:195:GLU:HG2	1.78	0.66
1:BA:392:ASP:O	1:BA:396:GLY:N	2.29	0.66
1:CA:392:ASP:O	1:CA:396:GLY:N	2.29	0.66
1:EA:791:GLU:HA	1:EA:794:LYS:HE2	1.76	0.66
1:IA:177:ARG:HG3	1:IA:195:GLU:HG2	1.78	0.66
1:IA:484:PRO:HB2	1:KA:473:TYR:HE1	1.61	0.66
1:MA:392:ASP:O	1:MA:396:GLY:N	2.29	0.66
1:NA:62:ALA:N	1:NA:104:LEU:O	2.28	0.66
1:NA:782:SER:HA	1:NA:785:GLN:HB3	1.78	0.66
1:OA:782:SER:HA	1:OA:785:GLN:HB3	1.78	0.66
1:RA:392:ASP:O	1:RA:396:GLY:N	2.29	0.66
1:SA:177:ARG:HG3	1:SA:195:GLU:HG2	1.78	0.66
1:SA:753:ILE:HG13	1:SA:756:GLU:HB3	1.76	0.66
1:VA:177:ARG:HG3	1:VA:195:GLU:HG2	1.78	0.66
1:XA:791:GLU:HA	1:XA:794:LYS:HE2	1.76	0.66
1:ZA:490:ASP:HB2	1:ZA:493:GLU:HG3	1.77	0.66
1:ZA:782:SER:HA	1:ZA:785:GLN:HB3	1.78	0.66
1:CB:37:ARG:HH21	1:CB:42:ARG:HD2	1.60	0.66
1:EB:219:VAL:HG21	1:EB:227:LEU:HD22	1.76	0.66
1:FB:177:ARG:HG3	1:FB:195:GLU:HG2	1.78	0.66
1:FB:392:ASP:O	1:FB:396:GLY:N	2.29	0.66
1:FB:654:LEU:HB3	1:GB:534:HIS:CG	2.30	0.66
1:JB:62:ALA:N	1:JB:104:LEU:O	2.28	0.66
1:JB:177:ARG:HG3	1:JB:195:GLU:HG2	1.78	0.66
1:LB:703:ARG:HH22	1:MB:693:ILE:HD11	1.60	0.66
1:MB:177:ARG:HG3	1:MB:195:GLU:HG2	1.78	0.66
1:TB:392:ASP:O	1:TB:396:GLY:N	2.29	0.66
1:UB:806:THR:CG2	1:VB:808:ARG:NH2	2.58	0.66
1:A:724:ALA:C	1:C:718:SER:CB	2.63	0.65
1:B:392:ASP:O	1:B:396:GLY:N	2.29	0.65
1:H:177:ARG:HG3	1:H:195:GLU:HG2	1.78	0.65
1:I:392:ASP:O	1:I:396:GLY:N	2.29	0.65
1:L:34:THR:HG21	1:N:21:GLN:C	2.16	0.65
1:L:782:SER:HA	1:L:785:GLN:HB3	1.78	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:T:392:ASP:O	1:T:396:GLY:N	2.29	0.65
1:DA:490:ASP:HB2	1:DA:493:GLU:HG3	1.77	0.65
1:EA:37:ARG:HH21	1:EA:42:ARG:HD2	1.60	0.65
1:GA:177:ARG:HG3	1:GA:195:GLU:HG2	1.78	0.65
1:HA:177:ARG:HG3	1:HA:195:GLU:HG2	1.78	0.65
1:IA:782:SER:HA	1:IA:785:GLN:HB3	1.78	0.65
1:LA:782:SER:HA	1:LA:785:GLN:HB3	1.78	0.65
1:MA:490:ASP:HB2	1:MA:493:GLU:HG3	1.77	0.65
1:TA:62:ALA:N	1:TA:104:LEU:O	2.28	0.65
1:BB:732:ALA:HB2	1:CB:722:ALA:CB	2.25	0.65
1:HB:377:ARG:NH1	1:HB:409:THR:O	2.20	0.65
1:JB:392:ASP:O	1:JB:396:GLY:N	2.29	0.65
1:KB:791:GLU:HA	1:KB:794:LYS:HE2	1.76	0.65
1:NB:377:ARG:NH1	1:NB:409:THR:O	2.20	0.65
1:PB:62:ALA:N	1:PB:104:LEU:O	2.28	0.65
1:TB:644:GLU:HA	1:UB:536:ARG:CZ	2.24	0.65
1:TB:713:SER:OG	1:UB:704:LYS:HA	1.97	0.65
1:UB:746:LEU:HD22	1:VB:737:GLY:O	1.95	0.65
1:XB:791:GLU:HA	1:XB:794:LYS:HE2	1.76	0.65
1:YB:490:ASP:HB2	1:YB:493:GLU:HG3	1.77	0.65
1:D:544:ASN:ND2	1:F:630:GLN:OE1	2.27	0.65
1:G:768:MET:CE	1:I:763:LYS:HB2	2.25	0.65
1:Q:392:ASP:O	1:Q:396:GLY:N	2.29	0.65
1:R:62:ALA:N	1:R:104:LEU:O	2.28	0.65
1:AA:37:ARG:HH21	1:AA:42:ARG:HD2	1.60	0.65
1:CA:8:ILE:HD12	1:CA:16:ILE:HD11	1.76	0.65
1:MA:62:ALA:N	1:MA:104:LEU:O	2.28	0.65
1:XA:177:ARG:HG3	1:XA:195:GLU:HG2	1.78	0.65
1:BB:37:ARG:HH21	1:BB:42:ARG:HD2	1.60	0.65
1:EB:62:ALA:N	1:EB:104:LEU:O	2.28	0.65
1:FB:461:ARG:HB2	1:GB:473:TYR:CE2	2.31	0.65
1:KB:782:SER:HA	1:KB:785:GLN:HB3	1.78	0.65
1:MB:490:ASP:HB2	1:MB:493:GLU:HG3	1.77	0.65
1:NB:392:ASP:O	1:NB:396:GLY:N	2.29	0.65
1:QB:782:SER:HA	1:QB:785:GLN:HB3	1.78	0.65
1:TB:490:ASP:HB2	1:TB:493:GLU:HG3	1.77	0.65
1:TB:666:THR:CB	1:UB:660:LEU:CD1	2.74	0.65
1:A:728:SER:HB2	1:C:722:ALA:HB2	1.79	0.65
1:M:392:ASP:O	1:M:396:GLY:N	2.29	0.65
1:P:8:ILE:HD12	1:P:16:ILE:HD11	1.76	0.65
1:Q:233:GLN:HE21	1:Q:264:TYR:HD1	1.45	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:S:177:ARG:HG3	1:S:195:GLU:HG2	1.78	0.65
1:Y:392:ASP:O	1:Y:396:GLY:N	2.29	0.65
1:CA:37:ARG:HH21	1:CA:42:ARG:HD2	1.60	0.65
1:EA:490:ASP:HB2	1:EA:493:GLU:HG3	1.77	0.65
1:FA:233:GLN:HE21	1:FA:264:TYR:HD1	1.45	0.65
1:HA:62:ALA:N	1:HA:104:LEU:O	2.28	0.65
1:IA:706:LEU:HD22	1:KA:697:SER:OG	1.96	0.65
1:NA:490:ASP:HB2	1:NA:493:GLU:HG3	1.77	0.65
1:RA:782:SER:HA	1:RA:785:GLN:HB3	1.78	0.65
1:VA:8:ILE:HD12	1:VA:16:ILE:HD11	1.76	0.65
1:YA:490:ASP:HB2	1:YA:493:GLU:HG3	1.77	0.65
1:ZA:377:ARG:NH1	1:ZA:409:THR:O	2.20	0.65
1:BB:392:ASP:O	1:BB:396:GLY:N	2.29	0.65
1:FB:37:ARG:HH21	1:FB:42:ARG:HD2	1.60	0.65
1:HB:791:GLU:HA	1:HB:794:LYS:HE2	1.76	0.65
1:IB:392:ASP:O	1:IB:396:GLY:N	2.29	0.65
1:LB:712:MET:HE1	1:MB:704:LYS:HE2	1.78	0.65
1:QB:62:ALA:N	1:QB:104:LEU:O	2.28	0.65
1:VB:392:ASP:O	1:VB:396:GLY:N	2.29	0.65
1:XB:392:ASP:O	1:XB:396:GLY:N	2.29	0.65
1:YB:377:ARG:NH1	1:YB:409:THR:O	2.20	0.65
1:A:757:ALA:CB	1:C:748:ALA:HB1	2.26	0.65
1:D:544:ASN:HD21	1:F:630:GLN:CD	2.00	0.65
1:E:233:GLN:HE21	1:E:264:TYR:HD1	1.45	0.65
1:G:782:SER:HA	1:G:785:GLN:HB3	1.78	0.65
1:H:233:GLN:HE21	1:H:264:TYR:HD1	1.45	0.65
1:N:392:ASP:O	1:N:396:GLY:N	2.29	0.65
1:Z:392:ASP:O	1:Z:396:GLY:N	2.29	0.65
1:CA:62:ALA:N	1:CA:104:LEU:O	2.28	0.65
1:EA:219:VAL:HG21	1:EA:227:LEU:HD22	1.76	0.65
1:KA:392:ASP:O	1:KA:396:GLY:N	2.29	0.65
1:NA:37:ARG:HH21	1:NA:42:ARG:HD2	1.60	0.65
1:OA:177:ARG:HG3	1:OA:195:GLU:HG2	1.78	0.65
1:PA:640:VAL:HG13	1:RA:580:ARG:NH2	2.12	0.65
1:UA:392:ASP:O	1:UA:396:GLY:N	2.29	0.65
1:GB:782:SER:HA	1:GB:785:GLN:HB3	1.78	0.65
1:JB:37:ARG:HH21	1:JB:42:ARG:HD2	1.60	0.65
1:KB:490:ASP:HB2	1:KB:493:GLU:HG3	1.77	0.65
1:VB:639:ASP:HB3	1:WB:577:SER:HB2	1.77	0.65
1:XB:37:ARG:HH21	1:XB:42:ARG:HD2	1.60	0.65
1:AC:392:ASP:O	1:AC:396:GLY:N	2.29	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:325:VAL:HG13	1:F:353:ALA:HB1	1.77	0.65
1:E:392:ASP:O	1:E:396:GLY:N	2.29	0.65
1:M:791:GLU:HA	1:M:794:LYS:HE2	1.76	0.65
1:P:177:ARG:HG3	1:P:195:GLU:HG2	1.78	0.65
1:Q:177:ARG:HG3	1:Q:195:GLU:HG2	1.78	0.65
1:T:782:SER:HA	1:T:785:GLN:HB3	1.78	0.65
1:BA:782:SER:HA	1:BA:785:GLN:HB3	1.78	0.65
1:GA:392:ASP:O	1:GA:396:GLY:N	2.29	0.65
1:HA:782:SER:HA	1:HA:785:GLN:HB3	1.78	0.65
1:KA:177:ARG:HG3	1:KA:195:GLU:HG2	1.78	0.65
1:UA:62:ALA:N	1:UA:104:LEU:O	2.28	0.65
1:VA:37:ARG:HH21	1:VA:42:ARG:HD2	1.60	0.65
1:WA:392:ASP:O	1:WA:396:GLY:N	2.29	0.65
1:YA:177:ARG:HG3	1:YA:195:GLU:HG2	1.78	0.65
1:ZA:177:ARG:HG3	1:ZA:195:GLU:HG2	1.78	0.65
1:DB:392:ASP:O	1:DB:396:GLY:N	2.29	0.65
1:FB:592:HIS:CD2	1:GB:584:ALA:CB	2.79	0.65
1:GB:392:ASP:O	1:GB:396:GLY:N	2.29	0.65
1:HB:177:ARG:HG3	1:HB:195:GLU:HG2	1.78	0.65
1:LB:383:ASP:HB3	1:MB:398:VAL:HG23	1.79	0.65
1:MB:392:ASP:O	1:MB:396:GLY:N	2.29	0.65
1:UB:735:ILE:HG13	1:VB:726:ALA:HB1	1.77	0.65
1:AC:233:GLN:HE21	1:AC:264:TYR:HD1	1.45	0.65
1:A:177:ARG:HG3	1:A:195:GLU:HG2	1.78	0.65
1:A:779:LEU:HD22	1:C:770:LEU:O	1.95	0.65
1:C:177:ARG:HG3	1:C:195:GLU:HG2	1.78	0.65
1:C:219:VAL:HG21	1:C:227:LEU:HD22	1.76	0.65
1:D:32:PRO:HG2	1:F:76:ASP:HB2	1.74	0.65
1:D:52:THR:CG2	1:F:86:ALA:CB	2.70	0.65
1:H:392:ASP:O	1:H:396:GLY:N	2.29	0.65
1:EA:177:ARG:HG3	1:EA:195:GLU:HG2	1.78	0.65
1:FA:37:ARG:HH21	1:FA:42:ARG:HD2	1.60	0.65
1:LA:177:ARG:HG3	1:LA:195:GLU:HG2	1.78	0.65
1:MA:233:GLN:HE21	1:MA:264:TYR:HD1	1.45	0.65
1:TA:595:SER:HB2	1:VA:580:ARG:HH12	1.60	0.65
1:UA:233:GLN:HE21	1:UA:264:TYR:HD1	1.45	0.65
1:ZA:713:SER:OG	1:BB:703:ARG:HG2	1.96	0.65
1:AB:233:GLN:HE21	1:AB:264:TYR:HD1	1.45	0.65
1:CB:720:GLY:HA3	1:DB:711:ALA:CB	2.25	0.65
1:EB:392:ASP:O	1:EB:396:GLY:N	2.29	0.65
1:LB:655:GLN:HG2	1:MB:649:ARG:CD	2.26	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:MB:782:SER:HA	1:MB:785:GLN:HB3	1.78	0.65
1:OB:596:ALA:HB3	1:PB:581:GLY:HA3	1.78	0.65
1:RB:392:ASP:O	1:RB:396:GLY:N	2.29	0.65
1:SB:233:GLN:HE21	1:SB:264:TYR:HD1	1.45	0.65
1:VB:233:GLN:HE21	1:VB:264:TYR:HD1	1.45	0.65
1:YB:392:ASP:O	1:YB:396:GLY:N	2.29	0.65
1:C:392:ASP:O	1:C:396:GLY:N	2.29	0.65
1:F:233:GLN:HE21	1:F:264:TYR:HD1	1.45	0.65
1:G:177:ARG:HG3	1:G:195:GLU:HG2	1.78	0.65
1:I:782:SER:HA	1:I:785:GLN:HB3	1.78	0.65
1:X:233:GLN:HE21	1:X:264:TYR:HD1	1.45	0.65
1:AA:782:SER:HA	1:AA:785:GLN:HB3	1.78	0.65
1:CA:233:GLN:HE21	1:CA:264:TYR:HD1	1.45	0.65
1:DA:177:ARG:HG3	1:DA:195:GLU:HG2	1.78	0.65
1:IA:275:THR:HG21	1:KA:296:LEU:HD23	1.78	0.65
1:QA:782:SER:HA	1:QA:785:GLN:HB3	1.78	0.65
1:AB:177:ARG:HG3	1:AB:195:GLU:HG2	1.78	0.65
1:BB:782:SER:HA	1:BB:785:GLN:HB3	1.78	0.65
1:OB:381:PRO:HB2	1:PB:391:GLN:OE1	1.95	0.65
1:OB:592:HIS:HE1	1:PB:530:GLU:HB3	1.61	0.65
1:RB:257:GLU:HB2	1:SB:245:THR:OG1	1.96	0.65
1:UB:782:SER:HA	1:UB:785:GLN:HB3	1.78	0.65
1:D:52:THR:CG2	1:F:85:HIS:NE2	2.60	0.65
1:D:782:SER:HA	1:D:785:GLN:HB3	1.78	0.65
1:G:233:GLN:HE21	1:G:264:TYR:HD1	1.45	0.65
1:I:177:ARG:HG3	1:I:195:GLU:HG2	1.78	0.65
1:O:177:ARG:HG3	1:O:195:GLU:HG2	1.78	0.65
1:P:37:ARG:HH21	1:P:42:ARG:HD2	1.60	0.65
1:DA:233:GLN:HE21	1:DA:264:TYR:HD1	1.45	0.65
1:FA:177:ARG:HG3	1:FA:195:GLU:HG2	1.78	0.65
1:BB:728:SER:HB3	1:CB:718:SER:HB2	1.77	0.65
1:BB:753:ILE:HG23	1:CB:744:ALA:HB1	1.76	0.65
1:LB:662:ILE:CG2	1:MB:654:LEU:HD21	2.26	0.65
1:NB:177:ARG:HG3	1:NB:195:GLU:HG2	1.78	0.65
1:OB:782:SER:HA	1:OB:785:GLN:HB3	1.78	0.65
1:VB:790:VAL:HG22	1:WB:785:GLN:OE1	1.96	0.65
1:ZB:392:ASP:O	1:ZB:396:GLY:N	2.29	0.65
1:D:49:ARG:HD3	1:F:63:ASN:ND2	2.12	0.65
1:F:392:ASP:O	1:F:396:GLY:N	2.29	0.65
1:L:392:ASP:O	1:L:396:GLY:N	2.29	0.65
1:V:392:ASP:O	1:V:396:GLY:N	2.29	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:EA:233:GLN:HE21	1:EA:264:TYR:HD1	1.45	0.65
1:NA:233:GLN:HE21	1:NA:264:TYR:HD1	1.45	0.65
1:SA:782:SER:HA	1:SA:785:GLN:HB3	1.78	0.65
1:TA:177:ARG:HG3	1:TA:195:GLU:HG2	1.78	0.65
1:VA:233:GLN:HE21	1:VA:264:TYR:HD1	1.45	0.65
1:XA:62:ALA:N	1:XA:104:LEU:O	2.28	0.65
1:AB:768:MET:HE3	1:OB:763:LYS:CG	2.27	0.65
1:EB:177:ARG:HG3	1:EB:195:GLU:HG2	1.78	0.65
1:OB:392:ASP:O	1:OB:396:GLY:N	2.29	0.65
1:PB:782:SER:HA	1:PB:785:GLN:HB3	1.78	0.65
1:RB:233:GLN:HE21	1:RB:264:TYR:HD1	1.45	0.65
1:UB:802:LEU:CD2	1:VB:807:ILE:CG1	2.75	0.65
1:YB:177:ARG:HG3	1:YB:195:GLU:HG2	1.78	0.65
1:A:718:SER:OG	1:NB:728:SER:HB3	1.96	0.65
1:B:535:ALA:HA	1:AC:658:VAL:CG1	2.27	0.65
1:C:782:SER:HA	1:C:785:GLN:HB3	1.78	0.65
1:D:167:VAL:CG2	1:F:192:THR:O	2.43	0.65
1:D:203:ALA:HB3	1:F:181:GLU:HB2	1.78	0.65
1:E:177:ARG:HG3	1:E:195:GLU:HG2	1.78	0.65
1:K:392:ASP:O	1:K:396:GLY:N	2.29	0.65
1:P:392:ASP:O	1:P:396:GLY:N	2.29	0.65
1:V:233:GLN:HE21	1:V:264:TYR:HD1	1.45	0.65
1:Y:233:GLN:HE21	1:Y:264:TYR:HD1	1.45	0.65
1:Z:782:SER:HA	1:Z:785:GLN:HB3	1.78	0.65
1:AA:233:GLN:HE21	1:AA:264:TYR:HD1	1.45	0.65
1:GA:782:SER:HA	1:GA:785:GLN:HB3	1.78	0.65
1:HA:392:ASP:O	1:HA:396:GLY:N	2.29	0.65
1:IA:62:ALA:N	1:IA:104:LEU:O	2.28	0.65
1:XA:724:ALA:HB2	1:ZA:714:MET:SD	2.37	0.65
1:YA:392:ASP:O	1:YA:396:GLY:N	2.29	0.65
1:EB:233:GLN:HE21	1:EB:264:TYR:HD1	1.45	0.65
1:IB:177:ARG:HG3	1:IB:195:GLU:HG2	1.78	0.65
1:MB:779:LEU:HD22	1:NB:773:ALA:HB3	1.76	0.65
1:RB:782:SER:HA	1:RB:785:GLN:HB3	1.78	0.65
1:WB:392:ASP:O	1:WB:396:GLY:N	2.29	0.65
1:A:392:ASP:O	1:A:396:GLY:N	2.29	0.64
1:A:772:TYR:CE2	1:C:766:ARG:HD3	2.32	0.64
1:D:9:ARG:HD2	1:F:24:ASN:H	1.60	0.64
1:D:595:SER:OG	1:F:580:ARG:NH1	2.28	0.64
1:D:654:LEU:HB3	1:F:534:HIS:HB3	1.78	0.64
1:F:37:ARG:HH21	1:F:42:ARG:HD2	1.60	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:177:ARG:HG3	1:J:195:GLU:HG2	1.78	0.64
1:W:392:ASP:O	1:W:396:GLY:N	2.29	0.64
1:W:782:SER:HA	1:W:785:GLN:HB3	1.78	0.64
1:LA:233:GLN:HE21	1:LA:264:TYR:HD1	1.45	0.64
1:XA:37:ARG:HH21	1:XA:42:ARG:HD2	1.60	0.64
1:ZA:673:ALA:HB1	1:BB:664:ILE:HB	1.79	0.64
1:CB:782:SER:HA	1:CB:785:GLN:HB3	1.78	0.64
1:DB:233:GLN:HE21	1:DB:264:TYR:HD1	1.45	0.64
1:FB:233:GLN:HE21	1:FB:264:TYR:HD1	1.45	0.64
1:LB:592:HIS:NE2	1:MB:530:GLU:O	2.30	0.64
1:MB:233:GLN:HE21	1:MB:264:TYR:HD1	1.45	0.64
1:NB:233:GLN:HE21	1:NB:264:TYR:HD1	1.45	0.64
1:SB:782:SER:HA	1:SB:785:GLN:HB3	1.78	0.64
1:UB:62:ALA:N	1:UB:104:LEU:O	2.28	0.64
1:WB:520:PRO:HD2	1:XB:563:SER:HB3	1.79	0.64
1:B:759:LEU:HD13	1:AC:768:MET:SD	2.29	0.64
1:D:9:ARG:HD2	1:F:21:GLN:C	2.17	0.64
1:D:9:ARG:CD	1:F:24:ASN:H	2.11	0.64
1:D:203:ALA:N	1:F:191:VAL:HG11	2.12	0.64
1:I:62:ALA:N	1:I:104:LEU:O	2.28	0.64
1:Y:177:ARG:HG3	1:Y:195:GLU:HG2	1.78	0.64
1:EA:392:ASP:O	1:EA:396:GLY:N	2.29	0.64
1:EA:782:SER:HA	1:EA:785:GLN:HB3	1.78	0.64
1:NA:392:ASP:O	1:NA:396:GLY:N	2.29	0.64
1:QA:392:ASP:O	1:QA:396:GLY:N	2.29	0.64
1:RA:177:ARG:HG3	1:RA:195:GLU:HG2	1.78	0.64
1:SA:233:GLN:HE21	1:SA:264:TYR:HD1	1.45	0.64
1:SA:392:ASP:O	1:SA:396:GLY:N	2.29	0.64
1:VA:392:ASP:O	1:VA:396:GLY:N	2.29	0.64
1:YA:233:GLN:HE21	1:YA:264:TYR:HD1	1.45	0.64
1:AB:392:ASP:O	1:AB:396:GLY:N	2.29	0.64
1:BB:177:ARG:HG3	1:BB:195:GLU:HG2	1.78	0.64
1:BB:742:LEU:HD23	1:CB:734:ARG:CD	2.27	0.64
1:CB:177:ARG:HG3	1:CB:195:GLU:HG2	1.78	0.64
1:FB:484:PRO:O	1:GB:471:TYR:CZ	2.50	0.64
1:FB:542:ALA:HB1	1:GB:573:LYS:HZ3	1.62	0.64
1:LB:392:ASP:O	1:LB:396:GLY:N	2.29	0.64
1:LB:681:GLU:N	1:MB:675:HIS:CE1	2.65	0.64
1:RB:177:ARG:HG3	1:RB:195:GLU:HG2	1.78	0.64
1:A:793:LYS:NZ	1:C:789:ASN:CG	2.51	0.64
1:D:32:PRO:CG	1:F:78:THR:HG22	2.27	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:392:ASP:O	1:J:396:GLY:N	2.29	0.64
1:K:233:GLN:HE21	1:K:264:TYR:HD1	1.45	0.64
1:O:392:ASP:O	1:O:396:GLY:N	2.29	0.64
1:V:782:SER:HA	1:V:785:GLN:HB3	1.78	0.64
1:W:233:GLN:HE21	1:W:264:TYR:HD1	1.45	0.64
1:KA:233:GLN:HE21	1:KA:264:TYR:HD1	1.45	0.64
1:EB:782:SER:HA	1:EB:785:GLN:HB3	1.78	0.64
1:FB:782:SER:HA	1:FB:785:GLN:HB3	1.78	0.64
1:JB:233:GLN:HE21	1:JB:264:TYR:HD1	1.45	0.64
1:KB:392:ASP:O	1:KB:396:GLY:N	2.29	0.64
1:LB:670:GLU:CB	1:MB:664:ILE:HG21	2.28	0.64
1:LB:782:SER:HA	1:LB:785:GLN:HB3	1.78	0.64
1:OB:177:ARG:HG3	1:OB:195:GLU:HG2	1.78	0.64
1:OB:233:GLN:HE21	1:OB:264:TYR:HD1	1.45	0.64
1:OB:275:THR:HB	1:PB:296:LEU:CD2	2.26	0.64
1:OB:687:ARG:NH1	1:PB:679:ARG:HH11	1.93	0.64
1:VB:728:SER:HB2	1:WB:722:ALA:HB3	1.78	0.64
1:D:661:ALA:CB	1:F:533:ASP:HB3	2.28	0.64
1:M:177:ARG:HG3	1:M:195:GLU:HG2	1.78	0.64
1:N:233:GLN:HE21	1:N:264:TYR:HD1	1.45	0.64
1:S:782:SER:HA	1:S:785:GLN:HB3	1.78	0.64
1:EA:377:ARG:NH1	1:EA:409:THR:O	2.20	0.64
1:PA:177:ARG:HG3	1:PA:195:GLU:HG2	1.78	0.64
1:RA:233:GLN:HE21	1:RA:264:TYR:HD1	1.45	0.64
1:WA:782:SER:HA	1:WA:785:GLN:HB3	1.78	0.64
1:BB:680:LEU:CD1	1:CB:668:SER:OG	2.45	0.64
1:FB:381:PRO:HB2	1:GB:396:GLY:HA2	1.80	0.64
1:FB:641:GLN:HA	1:GB:577:SER:HA	1.79	0.64
1:LB:713:SER:CA	1:MB:704:LYS:HA	2.26	0.64
1:OB:56:ARG:CB	1:PB:127:LEU:HD22	2.27	0.64
1:QB:177:ARG:HG3	1:QB:195:GLU:HG2	1.78	0.64
1:ZB:177:ARG:HG3	1:ZB:195:GLU:HG2	1.78	0.64
1:A:224:LYS:HD2	1:C:296:LEU:HD11	1.78	0.64
1:D:654:LEU:CD2	1:F:534:HIS:CD2	2.80	0.64
1:F:706:LEU:CD2	1:H:693:ILE:HG23	2.27	0.64
1:O:233:GLN:HE21	1:O:264:TYR:HD1	1.45	0.64
1:O:782:SER:HA	1:O:785:GLN:HB3	1.78	0.64
1:IA:662:ILE:HB	1:KA:654:LEU:HD21	1.78	0.64
1:MA:177:ARG:HG3	1:MA:195:GLU:HG2	1.78	0.64
1:PA:782:SER:HA	1:PA:785:GLN:HB3	1.78	0.64
1:OB:275:THR:CB	1:PB:296:LEU:HB3	2.26	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:RB:768:MET:HE3	1:SB:763:LYS:CG	2.28	0.64
1:UB:742:LEU:CD2	1:VB:737:GLY:CA	2.62	0.64
1:WB:782:SER:HA	1:WB:785:GLN:HB3	1.78	0.64
1:ZB:233:GLN:HE21	1:ZB:264:TYR:HD1	1.45	0.64
1:B:233:GLN:HE21	1:B:264:TYR:HD1	1.45	0.64
1:D:224:LYS:CE	1:F:294:ASN:HD22	2.10	0.64
1:D:392:ASP:O	1:D:396:GLY:N	2.29	0.64
1:K:177:ARG:HG3	1:K:195:GLU:HG2	1.78	0.64
1:P:233:GLN:HE21	1:P:264:TYR:HD1	1.45	0.64
1:OA:392:ASP:O	1:OA:396:GLY:N	2.29	0.64
1:TA:392:ASP:O	1:TA:396:GLY:N	2.29	0.64
1:ZA:392:ASP:O	1:ZA:396:GLY:N	2.29	0.64
1:AB:465:ASN:HD21	1:OB:563:SER:CA	2.06	0.64
1:BB:680:LEU:HD12	1:CB:668:SER:OG	1.98	0.64
1:CB:233:GLN:HE21	1:CB:264:TYR:HD1	1.45	0.64
1:DB:717:GLU:CA	1:EB:707:LEU:HB3	2.23	0.64
1:IB:233:GLN:HE21	1:IB:264:TYR:HD1	1.45	0.64
1:TB:177:ARG:HG3	1:TB:195:GLU:HG2	1.78	0.64
1:UB:739:GLY:HA2	1:VB:733:ALA:HB1	1.80	0.64
1:A:715:ALA:HA	1:NB:724:ALA:CB	2.28	0.64
1:G:782:SER:OG	1:I:777:LEU:HD11	1.98	0.64
1:J:782:SER:HA	1:J:785:GLN:HB3	1.78	0.64
1:L:233:GLN:HE21	1:L:264:TYR:HD1	1.45	0.64
1:M:233:GLN:HE21	1:M:264:TYR:HD1	1.45	0.64
1:N:56:ARG:HB2	1:P:127:LEU:HD22	1.80	0.64
1:R:233:GLN:HE21	1:R:264:TYR:HD1	1.45	0.64
1:SA:55:PRO:HD3	1:UA:86:ALA:HB1	1.80	0.64
1:BB:233:GLN:HE21	1:BB:264:TYR:HD1	1.45	0.64
1:DB:37:ARG:HH21	1:DB:42:ARG:HD2	1.60	0.64
1:DB:782:SER:HA	1:DB:785:GLN:HB3	1.78	0.64
1:KB:233:GLN:HE21	1:KB:264:TYR:HD1	1.45	0.64
1:MB:743:GLN:CG	1:NB:733:ALA:HB1	2.28	0.64
1:UB:177:ARG:HG3	1:UB:195:GLU:HG2	1.78	0.64
1:UB:735:ILE:HG21	1:VB:730:ALA:H	1.63	0.64
1:A:770:LEU:CD1	1:NB:775:ALA:HB1	2.25	0.64
1:G:392:ASP:O	1:G:396:GLY:N	2.29	0.64
1:N:177:ARG:HG3	1:N:195:GLU:HG2	1.78	0.64
1:P:806:THR:HG22	1:R:804:PRO:HB2	1.74	0.64
1:Y:377:ARG:NH1	1:Y:409:THR:O	2.20	0.64
1:HA:233:GLN:HE21	1:HA:264:TYR:HD1	1.45	0.64
1:TA:233:GLN:HE21	1:TA:264:TYR:HD1	1.45	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:FB:381:PRO:CB	1:GB:396:GLY:HA2	2.27	0.64
1:FB:542:ALA:HB1	1:GB:573:LYS:HZ2	1.60	0.64
1:MB:768:MET:HE2	1:NB:762:VAL:HG23	1.79	0.64
1:OB:32:PRO:CB	1:PB:24:ASN:ND2	2.52	0.64
1:ZB:746:LEU:HD13	1:AC:737:GLY:H	1.58	0.64
1:ZB:782:SER:HA	1:ZB:785:GLN:HB3	1.78	0.64
1:B:592:HIS:NE2	1:D:584:ALA:HB1	2.12	0.64
1:C:765:VAL:HG12	1:E:759:LEU:HD13	1.79	0.64
1:D:329:GLN:NE2	1:F:394:LYS:HE2	2.01	0.64
1:I:34:THR:CG2	1:K:22:ASN:O	2.37	0.64
1:R:679:ARG:CZ	1:R:679:ARG:HA	2.28	0.64
1:Y:782:SER:HA	1:Y:785:GLN:HB3	1.78	0.64
1:CA:177:ARG:HG3	1:CA:195:GLU:HG2	1.78	0.64
1:CA:782:SER:HA	1:CA:785:GLN:HB3	1.78	0.64
1:MA:679:ARG:CZ	1:MA:679:ARG:HA	2.28	0.64
1:BB:706:LEU:HD21	1:CB:693:ILE:CB	2.28	0.64
1:FB:336:ALA:O	1:FB:354:GLY:N	2.31	0.64
1:HB:233:GLN:HE21	1:HB:264:TYR:HD1	1.45	0.64
1:JB:336:ALA:O	1:JB:354:GLY:N	2.31	0.64
1:KB:679:ARG:CZ	1:KB:679:ARG:HA	2.28	0.64
1:LB:588:PHE:CE2	1:MB:534:HIS:CD2	2.79	0.64
1:XB:679:ARG:CZ	1:XB:679:ARG:HA	2.28	0.64
1:A:782:SER:HA	1:A:785:GLN:HB3	1.78	0.64
1:D:327:SER:HB3	1:F:354:GLY:O	1.98	0.64
1:D:381:PRO:HB3	1:F:393:VAL:CA	2.27	0.64
1:E:679:ARG:CZ	1:E:679:ARG:HA	2.28	0.64
1:G:56:ARG:HG3	1:I:128:ASP:HB3	1.79	0.64
1:J:233:GLN:HE21	1:J:264:TYR:HD1	1.45	0.64
1:K:679:ARG:CZ	1:K:679:ARG:HA	2.28	0.64
1:M:782:SER:HA	1:M:785:GLN:HB3	1.78	0.64
1:P:798:MET:CE	1:R:795:PHE:CE2	2.81	0.64
1:S:233:GLN:HE21	1:S:264:TYR:HD1	1.45	0.64
1:FA:336:ALA:O	1:FA:354:GLY:N	2.32	0.64
1:GA:679:ARG:CZ	1:GA:679:ARG:HA	2.28	0.64
1:JA:233:GLN:HE21	1:JA:264:TYR:HD1	1.45	0.64
1:NA:177:ARG:HG3	1:NA:195:GLU:HG2	1.78	0.64
1:OA:679:ARG:CZ	1:OA:679:ARG:HA	2.28	0.64
1:FB:278:PRO:HB2	1:GB:338:GLN:OE1	1.98	0.64
1:FB:484:PRO:HB2	1:GB:471:TYR:CD2	2.32	0.64
1:LB:233:GLN:HE21	1:LB:264:TYR:HD1	1.45	0.64
1:LB:384:GLN:HB2	1:MB:474:ARG:HG3	1.80	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:NB:336:ALA:O	1:NB:354:GLY:N	2.31	0.64
1:OB:655:GLN:NE2	1:PB:649:ARG:HB2	2.13	0.64
1:PB:177:ARG:HG3	1:PB:195:GLU:HG2	1.78	0.64
1:QB:592:HIS:CD2	1:RB:534:HIS:CD2	2.85	0.64
1:SB:177:ARG:HG3	1:SB:195:GLU:HG2	1.78	0.64
1:SB:681:GLU:HA	1:TB:675:HIS:NE2	2.12	0.64
1:TB:724:ALA:HB2	1:UB:715:ALA:HB1	1.80	0.64
1:VB:782:SER:HA	1:VB:785:GLN:HB3	1.78	0.64
1:YB:233:GLN:HE21	1:YB:264:TYR:HD1	1.45	0.64
1:B:679:ARG:CZ	1:B:679:ARG:HA	2.28	0.63
1:Q:336:ALA:O	1:Q:354:GLY:N	2.31	0.63
1:AA:679:ARG:CZ	1:AA:679:ARG:HA	2.28	0.63
1:CA:336:ALA:O	1:CA:354:GLY:N	2.31	0.63
1:QA:336:ALA:O	1:QA:354:GLY:N	2.32	0.63
1:SA:336:ALA:O	1:SA:354:GLY:N	2.31	0.63
1:XA:392:ASP:O	1:XA:396:GLY:N	2.29	0.63
1:YA:336:ALA:O	1:YA:354:GLY:N	2.31	0.63
1:CB:336:ALA:O	1:CB:354:GLY:N	2.32	0.63
1:DB:757:ALA:HB2	1:EB:748:ALA:HB1	1.78	0.63
1:GB:679:ARG:CZ	1:GB:679:ARG:HA	2.29	0.63
1:LB:592:HIS:HD2	1:MB:532:ALA:HA	1.64	0.63
1:LB:593:LYS:O	1:MB:585:SER:HB3	1.98	0.63
1:NB:679:ARG:CZ	1:NB:679:ARG:HA	2.28	0.63
1:SB:679:ARG:CZ	1:SB:679:ARG:HA	2.28	0.63
1:XB:233:GLN:HE21	1:XB:264:TYR:HD1	1.45	0.63
1:A:779:LEU:CD2	1:C:773:ALA:HB3	2.27	0.63
1:F:679:ARG:CZ	1:F:679:ARG:HA	2.28	0.63
1:L:336:ALA:O	1:L:354:GLY:N	2.31	0.63
1:R:336:ALA:O	1:R:354:GLY:N	2.31	0.63
1:Y:336:ALA:O	1:Y:354:GLY:N	2.32	0.63
1:Z:679:ARG:CZ	1:Z:679:ARG:HA	2.28	0.63
1:LA:679:ARG:CZ	1:LA:679:ARG:HA	2.29	0.63
1:WA:233:GLN:HE21	1:WA:264:TYR:HD1	1.45	0.63
1:WA:679:ARG:CZ	1:WA:679:ARG:HA	2.28	0.63
1:MB:336:ALA:O	1:MB:354:GLY:N	2.31	0.63
1:NB:466:ALA:HB1	1:NB:515:CYS:HB2	1.81	0.63
1:OB:276:LEU:O	1:PB:297:GLY:CA	2.44	0.63
1:TB:336:ALA:O	1:TB:354:GLY:N	2.31	0.63
1:VB:779:LEU:HD22	1:WB:774:ARG:HG3	1.80	0.63
1:A:233:GLN:HE21	1:A:264:TYR:HD1	1.45	0.63
1:A:728:SER:CA	1:C:718:SER:O	2.46	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:9:ARG:CZ	1:F:24:ASN:OD1	2.47	0.63
1:D:461:ARG:HD3	1:F:473:TYR:HE2	1.63	0.63
1:I:466:ALA:HB1	1:I:515:CYS:HB2	1.81	0.63
1:I:679:ARG:CZ	1:I:679:ARG:HA	2.28	0.63
1:T:679:ARG:CZ	1:T:679:ARG:HA	2.28	0.63
1:AA:177:ARG:HG3	1:AA:195:GLU:HG2	1.78	0.63
1:BA:679:ARG:CZ	1:BA:679:ARG:HA	2.28	0.63
1:DA:679:ARG:CZ	1:DA:679:ARG:HA	2.28	0.63
1:IA:336:ALA:O	1:IA:354:GLY:N	2.31	0.63
1:KA:336:ALA:O	1:KA:354:GLY:N	2.31	0.63
1:OA:466:ALA:HB1	1:OA:515:CYS:HB2	1.81	0.63
1:PA:679:ARG:CZ	1:PA:679:ARG:HA	2.28	0.63
1:VA:336:ALA:O	1:VA:354:GLY:N	2.32	0.63
1:XA:179:ARG:HA	1:XA:192:THR:HG23	1.81	0.63
1:ZA:336:ALA:O	1:ZA:354:GLY:N	2.31	0.63
1:ZA:679:ARG:CZ	1:ZA:679:ARG:HA	2.29	0.63
1:AB:679:ARG:CZ	1:AB:679:ARG:HA	2.28	0.63
1:UB:768:MET:CE	1:VB:766:ARG:CD	2.76	0.63
1:VB:640:VAL:O	1:WB:580:ARG:NH2	2.27	0.63
1:XB:466:ALA:HB1	1:XB:515:CYS:HB2	1.81	0.63
1:ZB:679:ARG:CZ	1:ZB:679:ARG:HA	2.28	0.63
1:A:336:ALA:O	1:A:354:GLY:N	2.31	0.63
1:D:167:VAL:HG21	1:F:192:THR:CB	2.28	0.63
1:P:179:ARG:HA	1:P:192:THR:HG23	1.81	0.63
1:P:336:ALA:O	1:P:354:GLY:N	2.31	0.63
1:P:466:ALA:HB1	1:P:515:CYS:HB2	1.81	0.63
1:Q:679:ARG:CZ	1:Q:679:ARG:HA	2.28	0.63
1:X:392:ASP:O	1:X:396:GLY:N	2.29	0.63
1:Y:679:ARG:CZ	1:Y:679:ARG:HA	2.29	0.63
1:Y:775:ALA:O	1:Y:779:LEU:HG	1.99	0.63
1:Z:466:ALA:HB1	1:Z:515:CYS:HB2	1.81	0.63
1:AA:466:ALA:HB1	1:AA:515:CYS:HB2	1.81	0.63
1:EA:336:ALA:O	1:EA:354:GLY:N	2.31	0.63
1:GA:233:GLN:HE21	1:GA:264:TYR:HD1	1.45	0.63
1:HA:679:ARG:CZ	1:HA:679:ARG:HA	2.28	0.63
1:MA:233:GLN:HA	1:MA:245:THR:HG22	1.81	0.63
1:MA:336:ALA:O	1:MA:354:GLY:N	2.32	0.63
1:NA:466:ALA:HB1	1:NA:515:CYS:HB2	1.81	0.63
1:ZA:233:GLN:HE21	1:ZA:264:TYR:HD1	1.45	0.63
1:BB:233:GLN:HA	1:BB:245:THR:HG22	1.81	0.63
1:BB:706:LEU:HD23	1:CB:693:ILE:CG2	2.15	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CB:179:ARG:HA	1:CB:192:THR:HG23	1.81	0.63
1:CB:466:ALA:HB1	1:CB:515:CYS:HB2	1.81	0.63
1:DB:177:ARG:HG3	1:DB:195:GLU:HG2	1.78	0.63
1:DB:336:ALA:O	1:DB:354:GLY:N	2.31	0.63
1:HB:392:ASP:O	1:HB:396:GLY:N	2.29	0.63
1:IB:179:ARG:HA	1:IB:192:THR:HG23	1.81	0.63
1:JB:466:ALA:HB1	1:JB:515:CYS:HB2	1.81	0.63
1:LB:709:LEU:HD12	1:MB:701:LYS:HG2	1.78	0.63
1:LB:775:ALA:O	1:LB:779:LEU:HG	1.99	0.63
1:OB:363:LEU:HA	1:PB:353:ALA:O	1.91	0.63
1:PB:466:ALA:HB1	1:PB:515:CYS:HB2	1.81	0.63
1:YB:336:ALA:O	1:YB:354:GLY:N	2.32	0.63
1:A:749:GLN:OE1	1:C:745:LYS:NZ	2.32	0.63
1:C:336:ALA:O	1:C:354:GLY:N	2.32	0.63
1:C:793:LYS:HZ2	1:E:785:GLN:NE2	1.94	0.63
1:D:336:ALA:O	1:D:354:GLY:N	2.32	0.63
1:D:466:ALA:HB1	1:D:515:CYS:HB2	1.81	0.63
1:H:179:ARG:HA	1:H:192:THR:HG23	1.81	0.63
1:K:179:ARG:HA	1:K:192:THR:HG23	1.81	0.63
1:K:466:ALA:HB1	1:K:515:CYS:HB2	1.81	0.63
1:L:177:ARG:HG3	1:L:195:GLU:HG2	1.78	0.63
1:S:679:ARG:HA	1:S:679:ARG:CZ	2.29	0.63
1:T:233:GLN:HE21	1:T:264:TYR:HD1	1.45	0.63
1:V:233:GLN:HA	1:V:245:THR:HG22	1.81	0.63
1:W:336:ALA:O	1:W:354:GLY:N	2.31	0.63
1:X:679:ARG:CZ	1:X:679:ARG:HA	2.28	0.63
1:Y:233:GLN:HA	1:Y:245:THR:HG22	1.81	0.63
1:Z:179:ARG:HA	1:Z:192:THR:HG23	1.81	0.63
1:AA:775:ALA:O	1:AA:779:LEU:HG	1.99	0.63
1:BA:336:ALA:O	1:BA:354:GLY:N	2.31	0.63
1:BA:466:ALA:HB1	1:BA:515:CYS:HB2	1.81	0.63
1:FA:679:ARG:CZ	1:FA:679:ARG:HA	2.28	0.63
1:HA:336:ALA:O	1:HA:354:GLY:N	2.32	0.63
1:JA:233:GLN:HA	1:JA:245:THR:HG22	1.81	0.63
1:JA:775:ALA:O	1:JA:779:LEU:HG	1.99	0.63
1:KA:179:ARG:HA	1:KA:192:THR:HG23	1.81	0.63
1:LA:233:GLN:HA	1:LA:245:THR:HG22	1.81	0.63
1:OA:775:ALA:O	1:OA:779:LEU:HG	1.99	0.63
1:PA:466:ALA:HB1	1:PA:515:CYS:HB2	1.81	0.63
1:RA:336:ALA:O	1:RA:354:GLY:N	2.31	0.63
1:SA:679:ARG:CZ	1:SA:679:ARG:HA	2.28	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:WA:336:ALA:O	1:WA:354:GLY:N	2.32	0.63
1:WA:775:ALA:O	1:WA:779:LEU:HG	1.99	0.63
1:YA:179:ARG:HA	1:YA:192:THR:HG23	1.81	0.63
1:DB:706:LEU:HD23	1:EB:693:ILE:CG2	2.20	0.63
1:FB:233:GLN:HA	1:FB:245:THR:HG22	1.81	0.63
1:FB:461:ARG:NH1	1:GB:473:TYR:CD2	2.66	0.63
1:GB:233:GLN:HE21	1:GB:264:TYR:HD1	1.45	0.63
1:GB:775:ALA:O	1:GB:779:LEU:HG	1.99	0.63
1:HB:466:ALA:HB1	1:HB:515:CYS:HB2	1.81	0.63
1:LB:233:GLN:HA	1:LB:245:THR:HG22	1.81	0.63
1:LB:336:ALA:O	1:LB:354:GLY:N	2.31	0.63
1:LB:706:LEU:CD2	1:MB:697:SER:CA	2.76	0.63
1:OB:679:ARG:CZ	1:OB:679:ARG:HA	2.29	0.63
1:PB:233:GLN:HA	1:PB:245:THR:HG22	1.81	0.63
1:QB:679:ARG:CZ	1:QB:679:ARG:HA	2.28	0.63
1:TB:717:GLU:HG2	1:UB:711:ALA:HB2	1.79	0.63
1:UB:179:ARG:HA	1:UB:192:THR:HG23	1.81	0.63
1:AC:679:ARG:CZ	1:AC:679:ARG:HA	2.29	0.63
1:AC:775:ALA:O	1:AC:779:LEU:HG	1.99	0.63
1:A:724:ALA:CA	1:C:718:SER:OG	2.47	0.63
1:B:179:ARG:HA	1:B:192:THR:HG23	1.81	0.63
1:C:233:GLN:HE21	1:C:264:TYR:HD1	1.45	0.63
1:H:336:ALA:O	1:H:354:GLY:N	2.31	0.63
1:H:679:ARG:CZ	1:H:679:ARG:HA	2.28	0.63
1:S:179:ARG:HA	1:S:192:THR:HG23	1.81	0.63
1:X:466:ALA:HB1	1:X:515:CYS:HB2	1.81	0.63
1:AA:233:GLN:HA	1:AA:245:THR:HG22	1.81	0.63
1:CA:179:ARG:HA	1:CA:192:THR:HG23	1.81	0.63
1:EA:179:ARG:HA	1:EA:192:THR:HG23	1.81	0.63
1:IA:392:ASP:O	1:IA:396:GLY:N	2.29	0.63
1:NA:179:ARG:HA	1:NA:192:THR:HG23	1.81	0.63
1:PA:336:ALA:O	1:PA:354:GLY:N	2.32	0.63
1:QA:775:ALA:O	1:QA:779:LEU:HG	1.99	0.63
1:RA:775:ALA:O	1:RA:779:LEU:HG	1.99	0.63
1:SA:179:ARG:HA	1:SA:192:THR:HG23	1.81	0.63
1:UA:336:ALA:O	1:UA:354:GLY:N	2.32	0.63
1:XA:753:ILE:HA	1:XA:756:GLU:HB2	1.81	0.63
1:EB:179:ARG:HA	1:EB:192:THR:HG23	1.81	0.63
1:HB:336:ALA:O	1:HB:354:GLY:N	2.32	0.63
1:IB:233:GLN:HA	1:IB:245:THR:HG22	1.81	0.63
1:JB:775:ALA:O	1:JB:779:LEU:HG	1.99	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:LB:592:HIS:CE1	1:MB:530:GLU:O	2.52	0.63
1:OB:233:GLN:HA	1:OB:245:THR:HG22	1.81	0.63
1:PB:233:GLN:HE21	1:PB:264:TYR:HD1	1.45	0.63
1:QB:466:ALA:HB1	1:QB:515:CYS:HB2	1.81	0.63
1:RB:679:ARG:CZ	1:RB:679:ARG:HA	2.29	0.63
1:TB:233:GLN:HE21	1:TB:264:TYR:HD1	1.45	0.63
1:TB:233:GLN:HA	1:TB:245:THR:HG22	1.81	0.63
1:WB:233:GLN:HA	1:WB:245:THR:HG22	1.81	0.63
1:YB:679:ARG:CZ	1:YB:679:ARG:HA	2.29	0.63
1:ZB:746:LEU:HB3	1:AC:737:GLY:HA2	1.81	0.63
1:A:702:ALA:HB3	1:C:693:ILE:HG21	1.79	0.63
1:C:753:ILE:HA	1:C:756:GLU:HB2	1.81	0.63
1:D:724:ALA:CB	1:F:715:ALA:CB	2.74	0.63
1:E:779:LEU:CD1	1:G:770:LEU:HA	2.29	0.63
1:H:775:ALA:O	1:H:779:LEU:HG	1.99	0.63
1:J:336:ALA:O	1:J:354:GLY:N	2.32	0.63
1:J:679:ARG:CZ	1:J:679:ARG:HA	2.29	0.63
1:L:466:ALA:HB1	1:L:515:CYS:HB2	1.81	0.63
1:M:179:ARG:HA	1:M:192:THR:HG23	1.81	0.63
1:P:679:ARG:CZ	1:P:679:ARG:HA	2.28	0.63
1:Q:775:ALA:O	1:Q:779:LEU:HG	1.99	0.63
1:R:775:ALA:O	1:R:779:LEU:HG	1.99	0.63
1:S:753:ILE:HA	1:S:756:GLU:HB2	1.81	0.63
1:S:775:ALA:O	1:S:779:LEU:HG	1.99	0.63
1:T:179:ARG:HA	1:T:192:THR:HG23	1.81	0.63
1:T:336:ALA:O	1:T:354:GLY:N	2.32	0.63
1:AA:179:ARG:HA	1:AA:192:THR:HG23	1.81	0.63
1:BA:233:GLN:HE21	1:BA:264:TYR:HD1	1.45	0.63
1:IA:753:ILE:HA	1:IA:756:GLU:HB2	1.81	0.63
1:LA:753:ILE:HA	1:LA:756:GLU:HB2	1.81	0.63
1:QA:679:ARG:CZ	1:QA:679:ARG:HA	2.28	0.63
1:TA:179:ARG:HA	1:TA:192:THR:HG23	1.81	0.63
1:WA:466:ALA:HB1	1:WA:515:CYS:HB2	1.81	0.63
1:XA:233:GLN:HA	1:XA:245:THR:HG22	1.81	0.63
1:ZA:179:ARG:HA	1:ZA:192:THR:HG23	1.81	0.63
1:AB:336:ALA:O	1:AB:354:GLY:N	2.32	0.63
1:AB:753:ILE:HA	1:AB:756:GLU:HB2	1.81	0.63
1:BB:179:ARG:HA	1:BB:192:THR:HG23	1.81	0.63
1:DB:716:VAL:HG21	1:EB:708:GLU:HG2	1.79	0.63
1:EB:336:ALA:O	1:EB:354:GLY:N	2.31	0.63
1:EB:679:ARG:CZ	1:EB:679:ARG:HA	2.29	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:EB:775:ALA:O	1:EB:779:LEU:HG	1.99	0.63
1:FB:775:ALA:O	1:FB:779:LEU:HG	1.99	0.63
1:LB:753:ILE:HA	1:LB:756:GLU:HB2	1.81	0.63
1:OB:336:ALA:O	1:OB:354:GLY:N	2.31	0.63
1:RB:655:GLN:CG	1:SB:649:ARG:HD3	2.29	0.63
1:SB:716:VAL:CG2	1:TB:708:GLU:HG2	2.29	0.63
1:TB:179:ARG:HA	1:TB:192:THR:HG23	1.81	0.63
1:UB:679:ARG:CZ	1:UB:679:ARG:HA	2.28	0.63
1:ZB:742:LEU:HD22	1:AC:734:ARG:NH2	2.13	0.63
1:AC:336:ALA:O	1:AC:354:GLY:N	2.31	0.63
1:A:753:ILE:HA	1:A:756:GLU:HB2	1.81	0.63
1:A:775:ALA:O	1:A:779:LEU:HG	1.99	0.63
1:B:325:VAL:HG11	1:D:353:ALA:O	1.99	0.63
1:B:775:ALA:O	1:B:779:LEU:HG	1.99	0.63
1:C:750:ALA:O	1:E:744:ALA:CB	2.47	0.63
1:C:813:ALA:CB	1:E:811:ALA:CB	2.70	0.63
1:D:233:GLN:HA	1:D:245:THR:HG22	1.81	0.63
1:E:233:GLN:HA	1:E:245:THR:HG22	1.81	0.63
1:I:233:GLN:HE21	1:I:264:TYR:HD1	1.45	0.63
1:J:466:ALA:HB1	1:J:515:CYS:HB2	1.81	0.63
1:J:813:ALA:HB1	1:L:811:ALA:O	1.98	0.63
1:K:38:GLN:HB2	1:UB:38:GLN:CB	2.28	0.63
1:Q:233:GLN:HA	1:Q:245:THR:HG22	1.81	0.63
1:V:753:ILE:HA	1:V:756:GLU:HB2	1.81	0.63
1:DA:392:ASP:O	1:DA:396:GLY:N	2.29	0.63
1:EA:775:ALA:O	1:EA:779:LEU:HG	1.99	0.63
1:FA:179:ARG:HA	1:FA:192:THR:HG23	1.81	0.63
1:KA:753:ILE:HA	1:KA:756:GLU:HB2	1.81	0.63
1:KA:775:ALA:O	1:KA:779:LEU:HG	1.99	0.63
1:LA:179:ARG:HA	1:LA:192:THR:HG23	1.81	0.63
1:MA:179:ARG:HA	1:MA:192:THR:HG23	1.81	0.63
1:NA:336:ALA:O	1:NA:354:GLY:N	2.31	0.63
1:OA:336:ALA:O	1:OA:354:GLY:N	2.32	0.63
1:QA:233:GLN:HE21	1:QA:264:TYR:HD1	1.45	0.63
1:WA:377:ARG:NH1	1:WA:409:THR:O	2.20	0.63
1:XA:336:ALA:O	1:XA:354:GLY:N	2.32	0.63
1:AB:233:GLN:HA	1:AB:245:THR:HG22	1.81	0.63
1:HB:679:ARG:CZ	1:HB:679:ARG:HA	2.28	0.63
1:IB:336:ALA:O	1:IB:354:GLY:N	2.32	0.63
1:LB:687:ARG:NH1	1:MB:679:ARG:NH1	2.47	0.63
1:OB:775:ALA:O	1:OB:779:LEU:HG	1.99	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:PB:299:LYS:NZ	1:PB:317:GLU:OE2	2.32	0.63
1:RB:336:ALA:O	1:RB:354:GLY:N	2.31	0.63
1:SB:179:ARG:HA	1:SB:192:THR:HG23	1.81	0.63
1:TB:592:HIS:HB2	1:UB:534:HIS:NE2	2.11	0.63
1:TB:644:GLU:N	1:UB:536:ARG:NH2	2.47	0.63
1:UB:233:GLN:HE21	1:UB:264:TYR:HD1	1.45	0.63
1:VB:775:ALA:O	1:VB:779:LEU:HG	1.99	0.63
1:WB:466:ALA:HB1	1:WB:515:CYS:HB2	1.81	0.63
1:A:679:ARG:CZ	1:A:679:ARG:HA	2.28	0.63
1:A:746:LEU:C	1:C:741:VAL:HG23	2.17	0.63
1:B:466:ALA:HB1	1:B:515:CYS:HB2	1.81	0.63
1:D:233:GLN:HE21	1:D:264:TYR:HD1	1.45	0.63
1:F:233:GLN:HA	1:F:245:THR:HG22	1.81	0.63
1:G:466:ALA:HB1	1:G:515:CYS:HB2	1.81	0.63
1:M:466:ALA:HB1	1:M:515:CYS:HB2	1.81	0.63
1:N:179:ARG:HA	1:N:192:THR:HG23	1.81	0.63
1:N:775:ALA:O	1:N:779:LEU:HG	1.99	0.63
1:O:336:ALA:O	1:O:354:GLY:N	2.32	0.63
1:P:790:VAL:CG1	1:R:788:ALA:HB2	2.29	0.63
1:R:179:ARG:HA	1:R:192:THR:HG23	1.81	0.63
1:R:392:ASP:O	1:R:396:GLY:N	2.29	0.63
1:T:753:ILE:HA	1:T:756:GLU:HB2	1.81	0.63
1:V:466:ALA:HB1	1:V:515:CYS:HB2	1.81	0.63
1:Z:775:ALA:O	1:Z:779:LEU:HG	1.99	0.63
1:DA:336:ALA:O	1:DA:354:GLY:N	2.32	0.63
1:GA:233:GLN:HA	1:GA:245:THR:HG22	1.81	0.63
1:GA:336:ALA:O	1:GA:354:GLY:N	2.32	0.63
1:HA:233:GLN:HA	1:HA:245:THR:HG22	1.81	0.63
1:KA:679:ARG:CZ	1:KA:679:ARG:HA	2.29	0.63
1:LA:336:ALA:O	1:LA:354:GLY:N	2.32	0.63
1:VA:179:ARG:HA	1:VA:192:THR:HG23	1.81	0.63
1:WA:179:ARG:HA	1:WA:192:THR:HG23	1.81	0.63
1:XA:679:ARG:CZ	1:XA:679:ARG:HA	2.28	0.63
1:AB:775:ALA:O	1:AB:779:LEU:HG	1.99	0.63
1:BB:768:MET:SD	1:CB:759:LEU:HD12	2.38	0.63
1:CB:233:GLN:HA	1:CB:245:THR:HG22	1.81	0.63
1:CB:753:ILE:HA	1:CB:756:GLU:HB2	1.81	0.63
1:FB:179:ARG:HA	1:FB:192:THR:HG23	1.81	0.63
1:GB:753:ILE:HA	1:GB:756:GLU:HB2	1.81	0.63
1:HB:753:ILE:HA	1:HB:756:GLU:HB2	1.81	0.63
1:MB:679:ARG:CZ	1:MB:679:ARG:HA	2.29	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:MB:753:ILE:HA	1:MB:756:GLU:HB2	1.81	0.63
1:QB:233:GLN:HA	1:QB:245:THR:HG22	1.81	0.63
1:RB:768:MET:HE3	1:SB:763:LYS:CB	2.29	0.63
1:UB:735:ILE:HG13	1:VB:726:ALA:C	2.19	0.63
1:VB:706:LEU:HD11	1:WB:696:GLN:HB3	1.81	0.63
1:VB:753:ILE:HA	1:VB:756:GLU:HB2	1.81	0.63
1:WB:753:ILE:HA	1:WB:756:GLU:HB2	1.81	0.63
1:A:718:SER:HG	1:NB:728:SER:HB3	1.64	0.62
1:A:753:ILE:HG23	1:C:745:LYS:HA	1.81	0.62
1:C:179:ARG:HA	1:C:192:THR:HG23	1.81	0.62
1:C:679:ARG:CZ	1:C:679:ARG:HA	2.28	0.62
1:D:51:VAL:C	1:F:85:HIS:HD2	2.01	0.62
1:G:679:ARG:CZ	1:G:679:ARG:HA	2.28	0.62
1:I:336:ALA:O	1:I:354:GLY:N	2.32	0.62
1:M:679:ARG:CZ	1:M:679:ARG:HA	2.29	0.62
1:N:336:ALA:O	1:N:354:GLY:N	2.31	0.62
1:N:679:ARG:CZ	1:N:679:ARG:HA	2.28	0.62
1:S:466:ALA:HB1	1:S:515:CYS:HB2	1.81	0.62
1:T:775:ALA:O	1:T:779:LEU:HG	1.99	0.62
1:V:336:ALA:O	1:V:354:GLY:N	2.31	0.62
1:W:679:ARG:CZ	1:W:679:ARG:HA	2.29	0.62
1:X:233:GLN:HA	1:X:245:THR:HG22	1.81	0.62
1:Y:179:ARG:HA	1:Y:192:THR:HG23	1.81	0.62
1:Y:466:ALA:HB1	1:Y:515:CYS:HB2	1.81	0.62
1:IA:775:ALA:O	1:IA:779:LEU:HG	1.99	0.62
1:JA:392:ASP:O	1:JA:396:GLY:N	2.29	0.62
1:OA:233:GLN:HE21	1:OA:264:TYR:HD1	1.45	0.62
1:PA:233:GLN:HE21	1:PA:264:TYR:HD1	1.45	0.62
1:SA:233:GLN:HA	1:SA:245:THR:HG22	1.81	0.62
1:SA:775:ALA:O	1:SA:779:LEU:HG	1.99	0.62
1:TA:679:ARG:CZ	1:TA:679:ARG:HA	2.29	0.62
1:UA:233:GLN:HA	1:UA:245:THR:HG22	1.81	0.62
1:XA:233:GLN:HE21	1:XA:264:TYR:HD1	1.45	0.62
1:YA:679:ARG:CZ	1:YA:679:ARG:HA	2.29	0.62
1:ZA:233:GLN:HA	1:ZA:245:THR:HG22	1.81	0.62
1:DB:179:ARG:HA	1:DB:192:THR:HG23	1.81	0.62
1:FB:325:VAL:CG1	1:GB:354:GLY:HA3	2.29	0.62
1:GB:336:ALA:O	1:GB:354:GLY:N	2.32	0.62
1:KB:336:ALA:O	1:KB:354:GLY:N	2.32	0.62
1:KB:775:ALA:O	1:KB:779:LEU:HG	1.99	0.62
1:LB:679:ARG:CZ	1:LB:679:ARG:HA	2.29	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:OB:466:ALA:HB1	1:OB:515:CYS:HB2	1.81	0.62
1:RB:753:ILE:HA	1:RB:756:GLU:HB2	1.81	0.62
1:SB:681:GLU:HA	1:TB:675:HIS:CE1	2.33	0.62
1:VB:466:ALA:HB1	1:VB:515:CYS:HB2	1.81	0.62
1:XB:233:GLN:HA	1:XB:245:THR:HG22	1.81	0.62
1:AC:179:ARG:HA	1:AC:192:THR:HG23	1.81	0.62
1:AC:233:GLN:HA	1:AC:245:THR:HG22	1.81	0.62
1:B:742:LEU:CD2	1:D:734:ARG:NE	2.46	0.62
1:F:753:ILE:HA	1:F:756:GLU:HB2	1.81	0.62
1:G:233:GLN:HA	1:G:245:THR:HG22	1.81	0.62
1:I:233:GLN:HA	1:I:245:THR:HG22	1.81	0.62
1:I:753:ILE:HA	1:I:756:GLU:HB2	1.81	0.62
1:K:753:ILE:HA	1:K:756:GLU:HB2	1.81	0.62
1:O:679:ARG:CZ	1:O:679:ARG:HA	2.29	0.62
1:W:179:ARG:HA	1:W:192:THR:HG23	1.81	0.62
1:W:233:GLN:HA	1:W:245:THR:HG22	1.81	0.62
1:W:466:ALA:HB1	1:W:515:CYS:HB2	1.81	0.62
1:X:753:ILE:HA	1:X:756:GLU:HB2	1.81	0.62
1:X:775:ALA:O	1:X:779:LEU:HG	1.99	0.62
1:Z:336:ALA:O	1:Z:354:GLY:N	2.32	0.62
1:BA:179:ARG:HA	1:BA:192:THR:HG23	1.81	0.62
1:CA:775:ALA:O	1:CA:779:LEU:HG	1.99	0.62
1:EA:679:ARG:CZ	1:EA:679:ARG:HA	2.28	0.62
1:HA:179:ARG:HA	1:HA:192:THR:HG23	1.81	0.62
1:HA:466:ALA:HB1	1:HA:515:CYS:HB2	1.81	0.62
1:JA:753:ILE:HA	1:JA:756:GLU:HB2	1.81	0.62
1:KA:466:ALA:HB1	1:KA:515:CYS:HB2	1.81	0.62
1:LA:775:ALA:O	1:LA:779:LEU:HG	1.99	0.62
1:MA:466:ALA:HB1	1:MA:515:CYS:HB2	1.81	0.62
1:NA:679:ARG:HA	1:NA:679:ARG:CZ	2.29	0.62
1:QA:179:ARG:HA	1:QA:192:THR:HG23	1.81	0.62
1:UA:753:ILE:HA	1:UA:756:GLU:HB2	1.81	0.62
1:UA:775:ALA:O	1:UA:779:LEU:HG	1.99	0.62
1:VA:753:ILE:HA	1:VA:756:GLU:HB2	1.81	0.62
1:VA:775:ALA:O	1:VA:779:LEU:HG	1.99	0.62
1:BB:466:ALA:HB1	1:BB:515:CYS:HB2	1.81	0.62
1:BB:775:ALA:O	1:BB:779:LEU:HG	1.99	0.62
1:JB:179:ARG:HA	1:JB:192:THR:HG23	1.81	0.62
1:JB:679:ARG:CZ	1:JB:679:ARG:HA	2.29	0.62
1:KB:466:ALA:HB1	1:KB:515:CYS:HB2	1.81	0.62
1:MB:691:GLN:OE1	1:NB:679:ARG:NE	2.32	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:OB:753:ILE:HA	1:OB:756:GLU:HB2	1.81	0.62
1:PB:179:ARG:HA	1:PB:192:THR:HG23	1.81	0.62
1:QB:753:ILE:HA	1:QB:756:GLU:HB2	1.81	0.62
1:RB:384:GLN:HB2	1:SB:474:ARG:HG3	1.80	0.62
1:RB:775:ALA:O	1:RB:779:LEU:HG	1.99	0.62
1:UB:336:ALA:O	1:UB:354:GLY:N	2.31	0.62
1:UB:687:ARG:NH2	1:VB:675:HIS:HB3	2.13	0.62
1:VB:679:ARG:CZ	1:VB:679:ARG:HA	2.28	0.62
1:WB:233:GLN:HE21	1:WB:264:TYR:HD1	1.45	0.62
1:XB:775:ALA:O	1:XB:779:LEU:HG	1.99	0.62
1:YB:179:ARG:HA	1:YB:192:THR:HG23	1.81	0.62
1:YB:466:ALA:HB1	1:YB:515:CYS:HB2	1.81	0.62
1:ZB:336:ALA:O	1:ZB:354:GLY:N	2.32	0.62
1:A:179:ARG:HA	1:A:192:THR:HG23	1.81	0.62
1:A:744:ALA:HA	1:NB:754:GLU:HG2	1.80	0.62
1:A:757:ALA:CB	1:C:748:ALA:CB	2.77	0.62
1:B:658:VAL:CB	1:D:533:ASP:O	2.47	0.62
1:C:790:VAL:HG11	1:E:785:GLN:N	2.14	0.62
1:D:275:THR:HG23	1:F:296:LEU:O	1.98	0.62
1:D:542:ALA:CB	1:F:573:LYS:CE	2.78	0.62
1:F:179:ARG:HA	1:F:192:THR:HG23	1.81	0.62
1:F:775:ALA:O	1:F:779:LEU:HG	1.99	0.62
1:H:233:GLN:HA	1:H:245:THR:HG22	1.81	0.62
1:M:336:ALA:O	1:M:354:GLY:N	2.31	0.62
1:O:466:ALA:HB1	1:O:515:CYS:HB2	1.81	0.62
1:P:775:ALA:O	1:P:779:LEU:HG	1.99	0.62
1:R:753:ILE:HA	1:R:756:GLU:HB2	1.81	0.62
1:BA:233:GLN:HA	1:BA:245:THR:HG22	1.81	0.62
1:IA:679:ARG:CZ	1:IA:679:ARG:HA	2.29	0.62
1:MA:753:ILE:HA	1:MA:756:GLU:HB2	1.81	0.62
1:UA:679:ARG:CZ	1:UA:679:ARG:HA	2.28	0.62
1:VA:233:GLN:HA	1:VA:245:THR:HG22	1.81	0.62
1:VA:466:ALA:HB1	1:VA:515:CYS:HB2	1.81	0.62
1:BB:679:ARG:CZ	1:BB:679:ARG:HA	2.29	0.62
1:DB:679:ARG:CZ	1:DB:679:ARG:HA	2.28	0.62
1:FB:753:ILE:HA	1:FB:756:GLU:HB2	1.81	0.62
1:GB:466:ALA:HB1	1:GB:515:CYS:HB2	1.81	0.62
1:IB:679:ARG:CZ	1:IB:679:ARG:HA	2.29	0.62
1:JB:233:GLN:HA	1:JB:245:THR:HG22	1.81	0.62
1:MB:775:ALA:O	1:MB:779:LEU:HG	1.99	0.62
1:RB:466:ALA:HB1	1:RB:515:CYS:HB2	1.81	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:WB:679:ARG:CZ	1:WB:679:ARG:HA	2.28	0.62
1:A:779:LEU:HD22	1:C:773:ALA:HB3	1.82	0.62
1:B:336:ALA:O	1:B:354:GLY:N	2.32	0.62
1:B:461:ARG:NH1	1:D:473:TYR:CG	2.67	0.62
1:B:786:GLN:OE1	1:D:781:VAL:HG21	1.97	0.62
1:C:233:GLN:HA	1:C:245:THR:HG22	1.81	0.62
1:C:775:ALA:O	1:C:779:LEU:HG	1.99	0.62
1:E:179:ARG:HA	1:E:192:THR:HG23	1.81	0.62
1:G:775:ALA:O	1:G:779:LEU:HG	1.99	0.62
1:H:768:MET:SD	1:J:759:LEU:CD1	2.88	0.62
1:L:775:ALA:O	1:L:779:LEU:HG	1.99	0.62
1:Q:179:ARG:HA	1:Q:192:THR:HG23	1.81	0.62
1:X:336:ALA:O	1:X:354:GLY:N	2.31	0.62
1:EA:466:ALA:HB1	1:EA:515:CYS:HB2	1.81	0.62
1:GA:753:ILE:HA	1:GA:756:GLU:HB2	1.81	0.62
1:IA:466:ALA:HB1	1:IA:515:CYS:HB2	1.81	0.62
1:MA:775:ALA:O	1:MA:779:LEU:HG	1.99	0.62
1:PA:233:GLN:HA	1:PA:245:THR:HG22	1.81	0.62
1:PA:775:ALA:O	1:PA:779:LEU:HG	1.99	0.62
1:TA:466:ALA:HB1	1:TA:515:CYS:HB2	1.81	0.62
1:AB:466:ALA:HB1	1:AB:515:CYS:HB2	1.81	0.62
1:CB:775:ALA:O	1:CB:779:LEU:HG	1.99	0.62
1:DB:706:LEU:CG	1:EB:693:ILE:HG23	2.28	0.62
1:DB:775:ALA:O	1:DB:779:LEU:HG	1.99	0.62
1:EB:466:ALA:HB1	1:EB:515:CYS:HB2	1.81	0.62
1:LB:588:PHE:HE2	1:MB:534:HIS:NE2	1.96	0.62
1:PB:336:ALA:O	1:PB:354:GLY:N	2.32	0.62
1:SB:233:GLN:HA	1:SB:245:THR:HG22	1.81	0.62
1:WB:336:ALA:O	1:WB:354:GLY:N	2.32	0.62
1:B:693:ILE:HG23	1:AC:706:LEU:CD1	2.29	0.62
1:C:798:MET:HA	1:E:792:ALA:HB1	1.81	0.62
1:D:522:PHE:CE2	1:F:566:ASP:HB3	2.34	0.62
1:D:775:ALA:O	1:D:779:LEU:HG	1.99	0.62
1:G:810:LEU:HA	1:I:811:ALA:CB	2.29	0.62
1:H:753:ILE:HA	1:H:756:GLU:HB2	1.81	0.62
1:O:775:ALA:O	1:O:779:LEU:HG	1.99	0.62
1:P:798:MET:SD	1:R:795:PHE:HD2	2.21	0.62
1:S:336:ALA:O	1:S:354:GLY:N	2.32	0.62
1:Y:8:ILE:HD11	1:Y:35:TYR:HD2	1.65	0.62
1:BA:775:ALA:O	1:BA:779:LEU:HG	1.99	0.62
1:DA:233:GLN:HA	1:DA:245:THR:HG22	1.81	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:FA:466:ALA:HB1	1:FA:515:CYS:HB2	1.81	0.62
1:IA:169:LYS:HZ3	1:KA:194:GLU:HA	1.63	0.62
1:IA:201:VAL:HG22	1:KA:191:VAL:HG21	1.80	0.62
1:NA:233:GLN:HA	1:NA:245:THR:HG22	1.81	0.62
1:YA:233:GLN:HA	1:YA:245:THR:HG22	1.81	0.62
1:YA:753:ILE:HA	1:YA:756:GLU:HB2	1.81	0.62
1:ZA:753:ILE:HA	1:ZA:756:GLU:HB2	1.81	0.62
1:EB:8:ILE:HD11	1:EB:35:TYR:HD2	1.65	0.62
1:FB:679:ARG:HA	1:FB:679:ARG:CZ	2.28	0.62
1:HB:775:ALA:O	1:HB:779:LEU:HG	1.99	0.62
1:IB:529:ILE:HD12	1:IB:583:VAL:HG11	1.82	0.62
1:LB:688:LEU:CA	1:MB:679:ARG:NH2	2.59	0.62
1:OB:202:GLY:C	1:PB:192:THR:HB	2.16	0.62
1:OB:673:ALA:CB	1:PB:664:ILE:HB	2.28	0.62
1:PB:679:ARG:CZ	1:PB:679:ARG:HA	2.28	0.62
1:RB:687:ARG:HH12	1:SB:679:ARG:NH1	1.97	0.62
1:SB:8:ILE:HD11	1:SB:35:TYR:HD2	1.65	0.62
1:SB:336:ALA:O	1:SB:354:GLY:N	2.32	0.62
1:TB:775:ALA:O	1:TB:779:LEU:HG	1.99	0.62
1:VB:233:GLN:HA	1:VB:245:THR:HG22	1.81	0.62
1:XB:179:ARG:HA	1:XB:192:THR:HG23	1.81	0.62
1:YB:775:ALA:O	1:YB:779:LEU:HG	1.99	0.62
1:ZB:179:ARG:HA	1:ZB:192:THR:HG23	1.81	0.62
1:AC:466:ALA:HB1	1:AC:515:CYS:HB2	1.81	0.62
1:D:655:GLN:CD	1:F:647:ASP:OD2	2.36	0.62
1:E:775:ALA:O	1:E:779:LEU:HG	1.99	0.62
1:F:336:ALA:O	1:F:354:GLY:N	2.31	0.62
1:G:336:ALA:O	1:G:354:GLY:N	2.31	0.62
1:I:179:ARG:HA	1:I:192:THR:HG23	1.81	0.62
1:K:38:GLN:HB2	1:UB:38:GLN:HB2	1.81	0.62
1:K:336:ALA:O	1:K:354:GLY:N	2.31	0.62
1:L:679:ARG:CZ	1:L:679:ARG:HA	2.29	0.62
1:M:775:ALA:O	1:M:779:LEU:HG	1.99	0.62
1:Q:753:ILE:HA	1:Q:756:GLU:HB2	1.81	0.62
1:V:679:ARG:CZ	1:V:679:ARG:HA	2.29	0.62
1:W:8:ILE:HD11	1:W:35:TYR:HD2	1.65	0.62
1:Z:233:GLN:HE21	1:Z:264:TYR:HD1	1.45	0.62
1:AA:336:ALA:O	1:AA:354:GLY:N	2.32	0.62
1:AA:753:ILE:HA	1:AA:756:GLU:HB2	1.81	0.62
1:CA:679:ARG:CZ	1:CA:679:ARG:HA	2.28	0.62
1:FA:753:ILE:HA	1:FA:756:GLU:HB2	1.81	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:GA:775:ALA:O	1:GA:779:LEU:HG	1.99	0.62
1:JA:679:ARG:CZ	1:JA:679:ARG:HA	2.29	0.62
1:KA:233:GLN:HA	1:KA:245:THR:HG22	1.81	0.62
1:NA:753:ILE:HA	1:NA:756:GLU:HB2	1.81	0.62
1:PA:529:ILE:HD12	1:PA:583:VAL:HG11	1.82	0.62
1:QA:529:ILE:HD12	1:QA:583:VAL:HG11	1.82	0.62
1:SA:466:ALA:HB1	1:SA:515:CYS:HB2	1.81	0.62
1:SA:753:ILE:HA	1:SA:756:GLU:HB2	1.81	0.62
1:BB:336:ALA:O	1:BB:354:GLY:N	2.32	0.62
1:CB:529:ILE:HD12	1:CB:583:VAL:HG11	1.82	0.62
1:HB:8:ILE:HD11	1:HB:35:TYR:HD2	1.65	0.62
1:HB:179:ARG:HA	1:HB:192:THR:HG23	1.81	0.62
1:IB:753:ILE:HA	1:IB:756:GLU:HB2	1.81	0.62
1:IB:775:ALA:O	1:IB:779:LEU:HG	1.99	0.62
1:LB:179:ARG:HA	1:LB:192:THR:HG23	1.81	0.62
1:LB:724:ALA:HB2	1:MB:715:ALA:HB2	1.81	0.62
1:NB:775:ALA:O	1:NB:779:LEU:HG	1.99	0.62
1:OB:364:GLU:N	1:PB:353:ALA:HB3	2.15	0.62
1:OB:464:HIS:CE1	1:PB:496:THR:HA	2.35	0.62
1:SB:466:ALA:HB1	1:SB:515:CYS:HB2	1.81	0.62
1:TB:679:ARG:CZ	1:TB:679:ARG:HA	2.28	0.62
1:VB:179:ARG:HA	1:VB:192:THR:HG23	1.81	0.62
1:A:466:ALA:HB1	1:A:515:CYS:HB2	1.81	0.62
1:B:529:ILE:HD12	1:B:583:VAL:HG11	1.82	0.62
1:D:405:THR:HB	1:F:395:THR:CA	2.26	0.62
1:D:679:ARG:CZ	1:D:679:ARG:HA	2.29	0.62
1:D:753:ILE:HA	1:D:756:GLU:HB2	1.81	0.62
1:E:753:ILE:HA	1:E:756:GLU:HB2	1.81	0.62
1:F:8:ILE:HD11	1:F:35:TYR:HD2	1.65	0.62
1:H:466:ALA:HB1	1:H:515:CYS:HB2	1.81	0.62
1:J:775:ALA:O	1:J:779:LEU:HG	1.99	0.62
1:M:8:ILE:HD11	1:M:35:TYR:HD2	1.65	0.62
1:M:233:GLN:HA	1:M:245:THR:HG22	1.81	0.62
1:N:233:GLN:HA	1:N:245:THR:HG22	1.81	0.62
1:P:813:ALA:CB	1:R:811:ALA:O	2.47	0.62
1:Q:466:ALA:HB1	1:Q:515:CYS:HB2	1.81	0.62
1:S:529:ILE:HD12	1:S:583:VAL:HG11	1.82	0.62
1:V:775:ALA:O	1:V:779:LEU:HG	1.99	0.62
1:Z:8:ILE:HD11	1:Z:35:TYR:HD2	1.65	0.62
1:Z:233:GLN:HA	1:Z:245:THR:HG22	1.81	0.62
1:Z:529:ILE:HD12	1:Z:583:VAL:HG11	1.82	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:DA:466:ALA:HB1	1:DA:515:CYS:HB2	1.81	0.62
1:EA:529:ILE:HD12	1:EA:583:VAL:HG11	1.82	0.62
1:FA:529:ILE:HD12	1:FA:583:VAL:HG11	1.82	0.62
1:GA:466:ALA:HB1	1:GA:515:CYS:HB2	1.81	0.62
1:HA:8:ILE:HD11	1:HA:35:TYR:HD2	1.65	0.62
1:IA:233:GLN:HA	1:IA:245:THR:HG22	1.81	0.62
1:JA:466:ALA:HB1	1:JA:515:CYS:HB2	1.81	0.62
1:NA:8:ILE:HD11	1:NA:35:TYR:HD2	1.65	0.62
1:OA:233:GLN:HA	1:OA:245:THR:HG22	1.81	0.62
1:RA:679:ARG:CZ	1:RA:679:ARG:HA	2.28	0.62
1:RA:753:ILE:HA	1:RA:756:GLU:HB2	1.81	0.62
1:ZA:775:ALA:O	1:ZA:779:LEU:HG	1.99	0.62
1:AB:8:ILE:HD11	1:AB:35:TYR:HD2	1.65	0.62
1:MB:179:ARG:HA	1:MB:192:THR:HG23	1.81	0.62
1:OB:307:SER:OG	1:PB:296:LEU:C	2.38	0.62
1:QB:529:ILE:HD12	1:QB:583:VAL:HG11	1.82	0.62
1:QB:775:ALA:O	1:QB:779:LEU:HG	1.99	0.62
1:TB:644:GLU:C	1:UB:536:ARG:NH2	2.45	0.62
1:UB:746:LEU:HD21	1:VB:737:GLY:O	1.97	0.62
1:ZB:753:ILE:HA	1:ZB:756:GLU:HB2	1.81	0.62
1:A:233:GLN:HA	1:A:245:THR:HG22	1.81	0.62
1:C:529:ILE:HD12	1:C:583:VAL:HG11	1.82	0.62
1:C:787:LEU:HD23	1:E:781:VAL:HA	1.81	0.62
1:G:753:ILE:HA	1:G:756:GLU:HB2	1.81	0.62
1:H:768:MET:SD	1:J:759:LEU:HD12	2.39	0.62
1:J:179:ARG:HA	1:J:192:THR:HG23	1.81	0.62
1:L:279:ARG:CD	1:N:337:LEU:HD13	2.30	0.62
1:M:716:VAL:HA	1:M:719:THR:HG22	1.82	0.62
1:O:179:ARG:HA	1:O:192:THR:HG23	1.81	0.62
1:R:8:ILE:HD11	1:R:35:TYR:HD2	1.65	0.62
1:R:655:GLN:NE2	1:T:649:ARG:HB2	2.15	0.62
1:W:775:ALA:O	1:W:779:LEU:HG	1.99	0.62
1:Z:753:ILE:HA	1:Z:756:GLU:HB2	1.81	0.62
1:DA:775:ALA:O	1:DA:779:LEU:HG	1.99	0.62
1:EA:233:GLN:HA	1:EA:245:THR:HG22	1.81	0.62
1:FA:8:ILE:HD11	1:FA:35:TYR:HD2	1.65	0.62
1:KA:529:ILE:HD12	1:KA:583:VAL:HG11	1.82	0.62
1:PA:8:ILE:HD11	1:PA:35:TYR:HD2	1.65	0.62
1:QA:466:ALA:HB1	1:QA:515:CYS:HB2	1.81	0.62
1:TA:233:GLN:HA	1:TA:245:THR:HG22	1.81	0.62
1:TA:336:ALA:O	1:TA:354:GLY:N	2.32	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:VA:8:ILE:HD11	1:VA:35:TYR:HD2	1.65	0.62
1:VA:679:ARG:CZ	1:VA:679:ARG:HA	2.28	0.62
1:XA:775:ALA:O	1:XA:779:LEU:HG	1.99	0.62
1:DB:8:ILE:HD11	1:DB:35:TYR:HD2	1.65	0.62
1:DB:753:ILE:HA	1:DB:756:GLU:HB2	1.81	0.62
1:EB:529:ILE:HD12	1:EB:583:VAL:HG11	1.82	0.62
1:GB:233:GLN:HA	1:GB:245:THR:HG22	1.81	0.62
1:IB:466:ALA:HB1	1:IB:515:CYS:HB2	1.81	0.62
1:OB:687:ARG:CZ	1:PB:679:ARG:NH1	2.63	0.62
1:QB:392:ASP:O	1:QB:396:GLY:N	2.29	0.62
1:RB:179:ARG:HA	1:RB:192:THR:HG23	1.81	0.62
1:TB:8:ILE:HD11	1:TB:35:TYR:HD2	1.65	0.62
1:UB:753:ILE:HA	1:UB:756:GLU:HB2	1.81	0.62
1:WB:461:ARG:NH1	1:XB:494:GLN:HG3	2.15	0.62
1:ZB:466:ALA:HB1	1:ZB:515:CYS:HB2	1.81	0.62
1:AC:753:ILE:HA	1:AC:756:GLU:HB2	1.81	0.62
1:A:520:PRO:HD2	1:C:563:SER:HB3	1.82	0.62
1:A:529:ILE:HD12	1:A:583:VAL:HG11	1.82	0.62
1:A:749:GLN:O	1:C:744:ALA:CB	2.48	0.62
1:A:750:ALA:N	1:C:741:VAL:HA	2.15	0.62
1:A:772:TYR:CD2	1:C:766:ARG:HD3	2.35	0.62
1:A:802:LEU:HD23	1:C:799:THR:HG21	1.79	0.62
1:C:739:GLY:HA2	1:E:734:ARG:CZ	2.30	0.62
1:C:775:ALA:CA	1:E:770:LEU:CD1	2.71	0.62
1:D:9:ARG:NE	1:F:21:GLN:HA	2.15	0.62
1:D:51:VAL:HG22	1:F:86:ALA:CA	2.29	0.62
1:D:688:LEU:HD12	1:F:679:ARG:HH12	0.82	0.62
1:E:336:ALA:O	1:E:354:GLY:N	2.32	0.62
1:L:179:ARG:HA	1:L:192:THR:HG23	1.81	0.62
1:L:753:ILE:HA	1:L:756:GLU:HB2	1.81	0.62
1:N:8:ILE:HD11	1:N:35:TYR:HD2	1.65	0.62
1:T:466:ALA:HB1	1:T:515:CYS:HB2	1.81	0.62
1:V:179:ARG:HA	1:V:192:THR:HG23	1.81	0.62
1:X:8:ILE:HD11	1:X:35:TYR:HD2	1.65	0.62
1:DA:753:ILE:HA	1:DA:756:GLU:HB2	1.81	0.62
1:EA:8:ILE:HD11	1:EA:35:TYR:HD2	1.65	0.62
1:JA:336:ALA:O	1:JA:354:GLY:N	2.31	0.62
1:PA:392:ASP:O	1:PA:396:GLY:N	2.29	0.62
1:QA:233:GLN:HA	1:QA:245:THR:HG22	1.81	0.62
1:RA:179:ARG:HA	1:RA:192:THR:HG23	1.81	0.62
1:WA:529:ILE:HD12	1:WA:583:VAL:HG11	1.82	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:XA:8:ILE:HD11	1:XA:35:TYR:HD2	1.65	0.62
1:BB:706:LEU:HD21	1:CB:693:ILE:CA	2.30	0.62
1:BB:753:ILE:HA	1:BB:756:GLU:HB2	1.81	0.62
1:CB:679:ARG:CZ	1:CB:679:ARG:HA	2.29	0.62
1:CB:716:VAL:HA	1:CB:719:THR:HG22	1.82	0.62
1:HB:233:GLN:HA	1:HB:245:THR:HG22	1.81	0.62
1:HB:529:ILE:HD12	1:HB:583:VAL:HG11	1.82	0.62
1:MB:466:ALA:HB1	1:MB:515:CYS:HB2	1.81	0.62
1:OB:8:ILE:HD11	1:OB:35:TYR:HD2	1.65	0.62
1:OB:278:PRO:CD	1:PB:297:GLY:O	2.48	0.62
1:OB:363:LEU:HA	1:PB:353:ALA:CB	2.23	0.62
1:OB:364:GLU:N	1:PB:353:ALA:HB1	2.14	0.62
1:OB:735:ILE:HG22	1:PB:730:ALA:CB	2.30	0.62
1:PB:775:ALA:O	1:PB:779:LEU:HG	1.99	0.62
1:SB:529:ILE:HD12	1:SB:583:VAL:HG11	1.82	0.62
1:UB:806:THR:HG21	1:VB:804:PRO:O	2.00	0.62
1:VB:529:ILE:HD12	1:VB:583:VAL:HG11	1.82	0.62
1:WB:8:ILE:HD11	1:WB:35:TYR:HD2	1.65	0.62
1:YB:8:ILE:HD11	1:YB:35:TYR:HD2	1.65	0.62
1:A:687:ARG:HH12	1:C:679:ARG:HH11	1.47	0.62
1:A:743:GLN:HG2	1:C:733:ALA:HB1	1.76	0.62
1:A:754:GLU:HG3	1:C:744:ALA:HA	1.82	0.62
1:D:8:ILE:HD11	1:D:35:TYR:HD2	1.65	0.62
1:D:278:PRO:HB2	1:F:338:GLN:HE22	1.65	0.62
1:D:593:LYS:NZ	1:F:532:ALA:HB1	2.14	0.62
1:E:8:ILE:HD11	1:E:35:TYR:HD2	1.65	0.62
1:E:466:ALA:HB1	1:E:515:CYS:HB2	1.81	0.62
1:J:529:ILE:HD12	1:J:583:VAL:HG11	1.82	0.62
1:K:775:ALA:O	1:K:779:LEU:HG	1.99	0.62
1:L:8:ILE:HD11	1:L:35:TYR:HD2	1.65	0.62
1:M:529:ILE:HD12	1:M:583:VAL:HG11	1.82	0.62
1:N:753:ILE:HA	1:N:756:GLU:HB2	1.81	0.62
1:R:34:THR:HG23	1:T:21:GLN:O	1.99	0.62
1:T:233:GLN:HA	1:T:245:THR:HG22	1.81	0.62
1:V:8:ILE:HD11	1:V:35:TYR:HD2	1.65	0.62
1:X:179:ARG:HA	1:X:192:THR:HG23	1.81	0.62
1:Y:753:ILE:HA	1:Y:756:GLU:HB2	1.81	0.62
1:AA:716:VAL:HA	1:AA:719:THR:HG22	1.82	0.62
1:CA:466:ALA:HB1	1:CA:515:CYS:HB2	1.81	0.62
1:GA:179:ARG:HA	1:GA:192:THR:HG23	1.81	0.62
1:OA:8:ILE:HD11	1:OA:35:TYR:HD2	1.65	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:PA:179:ARG:HA	1:PA:192:THR:HG23	1.81	0.62
1:RA:233:GLN:HA	1:RA:245:THR:HG22	1.81	0.62
1:WA:753:ILE:HA	1:WA:756:GLU:HB2	1.81	0.62
1:KB:179:ARG:HA	1:KB:192:THR:HG23	1.81	0.62
1:OB:279:ARG:HH22	1:PB:299:LYS:HZ3	1.48	0.62
1:RB:790:VAL:HG13	1:SB:788:ALA:CB	2.30	0.62
1:TB:466:ALA:HB1	1:TB:515:CYS:HB2	1.81	0.62
1:UB:529:ILE:HD12	1:UB:583:VAL:HG11	1.82	0.62
1:UB:716:VAL:HA	1:UB:719:THR:HG22	1.82	0.62
1:VB:8:ILE:HD11	1:VB:35:TYR:HD2	1.65	0.62
1:VB:336:ALA:O	1:VB:354:GLY:N	2.32	0.62
1:XB:753:ILE:HA	1:XB:756:GLU:HB2	1.81	0.62
1:YB:716:VAL:HA	1:YB:719:THR:HG22	1.82	0.62
1:AC:8:ILE:HD11	1:AC:35:TYR:HD2	1.65	0.62
1:E:716:VAL:HA	1:E:719:THR:HG22	1.82	0.61
1:H:802:LEU:CD2	1:J:799:THR:HG21	2.30	0.61
1:K:233:GLN:HA	1:K:245:THR:HG22	1.81	0.61
1:L:233:GLN:HA	1:L:245:THR:HG22	1.81	0.61
1:O:8:ILE:HD11	1:O:35:TYR:HD2	1.65	0.61
1:O:233:GLN:HA	1:O:245:THR:HG22	1.81	0.61
1:P:233:GLN:HA	1:P:245:THR:HG22	1.81	0.61
1:P:768:MET:HE3	1:R:763:LYS:HG2	1.80	0.61
1:S:274:THR:HG21	1:S:310:LEU:HG	1.82	0.61
1:W:753:ILE:HA	1:W:756:GLU:HB2	1.81	0.61
1:AA:529:ILE:HD12	1:AA:583:VAL:HG11	1.82	0.61
1:PA:640:VAL:HG13	1:RA:580:ARG:HH22	1.63	0.61
1:RA:716:VAL:HA	1:RA:719:THR:HG22	1.82	0.61
1:UA:466:ALA:HB1	1:UA:515:CYS:HB2	1.81	0.61
1:UA:706:LEU:HD21	1:WA:693:ILE:HG23	1.82	0.61
1:XA:466:ALA:HB1	1:XA:515:CYS:HB2	1.81	0.61
1:YA:775:ALA:O	1:YA:779:LEU:HG	1.99	0.61
1:DB:728:SER:HB3	1:EB:718:SER:HB2	1.80	0.61
1:FB:258:ALA:HB2	1:GB:245:THR:HG1	1.62	0.61
1:GB:274:THR:HG21	1:GB:310:LEU:HG	1.83	0.61
1:OB:179:ARG:HA	1:OB:192:THR:HG23	1.81	0.61
1:OB:716:VAL:HA	1:OB:719:THR:HG22	1.82	0.61
1:PB:8:ILE:HD11	1:PB:35:TYR:HD2	1.65	0.61
1:QB:179:ARG:HA	1:QB:192:THR:HG23	1.81	0.61
1:QB:233:GLN:HE21	1:QB:264:TYR:HD1	1.45	0.61
1:RB:233:GLN:HA	1:RB:245:THR:HG22	1.81	0.61
1:RB:716:VAL:HA	1:RB:719:THR:HG22	1.82	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:SB:716:VAL:HA	1:SB:719:THR:HG22	1.82	0.61
1:SB:753:ILE:HA	1:SB:756:GLU:HB2	1.81	0.61
1:VB:731:GLU:HG2	1:WB:723:LYS:HD3	1.81	0.61
1:XB:336:ALA:O	1:XB:354:GLY:N	2.31	0.61
1:XB:529:ILE:HD12	1:XB:583:VAL:HG11	1.82	0.61
1:A:790:VAL:CG1	1:C:784:ALA:HB1	2.24	0.61
1:C:793:LYS:HZ1	1:E:785:GLN:NE2	1.97	0.61
1:D:52:THR:C	1:F:86:ALA:HB3	2.20	0.61
1:D:112:LEU:HD23	1:F:128:ASP:CB	2.30	0.61
1:D:327:SER:HB3	1:F:355:ASP:HA	1.81	0.61
1:G:8:ILE:HD11	1:G:35:TYR:HD2	1.65	0.61
1:H:8:ILE:HD11	1:H:35:TYR:HD2	1.65	0.61
1:H:274:THR:HG21	1:H:310:LEU:HG	1.82	0.61
1:I:8:ILE:HD11	1:I:35:TYR:HD2	1.65	0.61
1:I:775:ALA:O	1:I:779:LEU:HG	1.99	0.61
1:K:716:VAL:HA	1:K:719:THR:HG22	1.82	0.61
1:Z:716:VAL:HA	1:Z:719:THR:HG22	1.82	0.61
1:IA:179:ARG:HA	1:IA:192:THR:HG23	1.81	0.61
1:IA:233:GLN:HE21	1:IA:264:TYR:HD1	1.45	0.61
1:JA:179:ARG:HA	1:JA:192:THR:HG23	1.81	0.61
1:KA:8:ILE:HD11	1:KA:35:TYR:HD2	1.65	0.61
1:MA:8:ILE:HD11	1:MA:35:TYR:HD2	1.65	0.61
1:NA:775:ALA:O	1:NA:779:LEU:HG	1.99	0.61
1:TA:529:ILE:HD12	1:TA:583:VAL:HG11	1.82	0.61
1:ZA:466:ALA:HB1	1:ZA:515:CYS:HB2	1.81	0.61
1:ZA:768:MET:SD	1:BB:759:LEU:HD12	2.40	0.61
1:CB:274:THR:HG21	1:CB:310:LEU:HG	1.83	0.61
1:GB:716:VAL:HA	1:GB:719:THR:HG22	1.83	0.61
1:KB:753:ILE:HA	1:KB:756:GLU:HB2	1.81	0.61
1:LB:466:ALA:HB1	1:LB:515:CYS:HB2	1.81	0.61
1:LB:529:ILE:HD12	1:LB:583:VAL:HG11	1.82	0.61
1:LB:699:ALA:O	1:MB:693:ILE:HG21	2.00	0.61
1:LB:717:GLU:O	1:MB:711:ALA:CB	2.49	0.61
1:MB:706:LEU:HD23	1:NB:693:ILE:HG23	1.81	0.61
1:MB:742:LEU:CD2	1:NB:734:ARG:CD	2.78	0.61
1:NB:233:GLN:HA	1:NB:245:THR:HG22	1.81	0.61
1:OB:383:ASP:CB	1:PB:398:VAL:CG2	2.64	0.61
1:QB:655:GLN:HG2	1:RB:649:ARG:HD3	1.81	0.61
1:UB:753:ILE:HD11	1:VB:748:ALA:HB1	1.80	0.61
1:UB:802:LEU:CD2	1:VB:807:ILE:HG13	2.30	0.61
1:WB:179:ARG:HA	1:WB:192:THR:HG23	1.81	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:724:ALA:CA	1:E:715:ALA:HA	2.29	0.61
1:H:716:VAL:HA	1:H:719:THR:HG22	1.82	0.61
1:J:224:LYS:HG3	1:L:296:LEU:HD21	1.81	0.61
1:N:716:VAL:HA	1:N:719:THR:HG22	1.82	0.61
1:R:233:GLN:HA	1:R:245:THR:HG22	1.81	0.61
1:R:466:ALA:HB1	1:R:515:CYS:HB2	1.81	0.61
1:S:233:GLN:HA	1:S:245:THR:HG22	1.81	0.61
1:T:716:VAL:HA	1:T:719:THR:HG22	1.82	0.61
1:X:716:VAL:HA	1:X:719:THR:HG22	1.82	0.61
1:AA:274:THR:HG21	1:AA:310:LEU:HG	1.82	0.61
1:BA:8:ILE:HD11	1:BA:35:TYR:HD2	1.65	0.61
1:CA:8:ILE:HD11	1:CA:35:TYR:HD2	1.65	0.61
1:CA:233:GLN:HA	1:CA:245:THR:HG22	1.81	0.61
1:FA:274:THR:HG21	1:FA:310:LEU:HG	1.83	0.61
1:FA:716:VAL:HA	1:FA:719:THR:HG22	1.82	0.61
1:IA:8:ILE:HD11	1:IA:35:TYR:HD2	1.65	0.61
1:IA:274:THR:HG21	1:IA:310:LEU:HG	1.82	0.61
1:LA:8:ILE:HD11	1:LA:35:TYR:HD2	1.65	0.61
1:LA:466:ALA:HB1	1:LA:515:CYS:HB2	1.81	0.61
1:MA:274:THR:HG21	1:MA:310:LEU:HG	1.82	0.61
1:MA:706:LEU:HD21	1:OA:693:ILE:HD12	1.82	0.61
1:PA:753:ILE:HA	1:PA:756:GLU:HB2	1.81	0.61
1:RA:466:ALA:HB1	1:RA:515:CYS:HB2	1.81	0.61
1:UA:274:THR:HG21	1:UA:310:LEU:HG	1.83	0.61
1:DB:681:GLU:OE2	1:DB:685:ARG:NH1	2.34	0.61
1:FB:466:ALA:HB1	1:FB:515:CYS:HB2	1.81	0.61
1:OB:529:ILE:HD12	1:OB:583:VAL:HG11	1.82	0.61
1:PB:529:ILE:HD12	1:PB:583:VAL:HG11	1.82	0.61
1:QB:336:ALA:O	1:QB:354:GLY:N	2.31	0.61
1:VB:728:SER:CA	1:WB:722:ALA:HB3	2.30	0.61
1:WB:775:ALA:O	1:WB:779:LEU:HG	1.99	0.61
1:YB:274:THR:HG21	1:YB:310:LEU:HG	1.82	0.61
1:B:233:GLN:HA	1:B:245:THR:HG22	1.81	0.61
1:B:274:THR:HG21	1:B:310:LEU:HG	1.83	0.61
1:C:466:ALA:HB1	1:C:515:CYS:HB2	1.81	0.61
1:F:529:ILE:HD12	1:F:583:VAL:HG11	1.82	0.61
1:J:753:ILE:HA	1:J:756:GLU:HB2	1.81	0.61
1:N:466:ALA:HB1	1:N:515:CYS:HB2	1.81	0.61
1:P:681:GLU:OE2	1:P:685:ARG:NH1	2.34	0.61
1:Q:274:THR:HG21	1:Q:310:LEU:HG	1.83	0.61
1:Q:529:ILE:HD12	1:Q:583:VAL:HG11	1.82	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:8:ILE:HD11	1:AA:35:TYR:HD2	1.65	0.61
1:AA:681:GLU:OE2	1:AA:685:ARG:NH1	2.34	0.61
1:BA:274:THR:HG21	1:BA:310:LEU:HG	1.82	0.61
1:CA:753:ILE:HA	1:CA:756:GLU:HB2	1.81	0.61
1:DA:8:ILE:HD11	1:DA:35:TYR:HD2	1.65	0.61
1:HA:716:VAL:HA	1:HA:719:THR:HG22	1.82	0.61
1:HA:775:ALA:O	1:HA:779:LEU:HG	1.99	0.61
1:IA:684:ALA:HB1	1:KA:675:HIS:HB3	1.82	0.61
1:IA:716:VAL:HA	1:IA:719:THR:HG22	1.82	0.61
1:JA:716:VAL:HA	1:JA:719:THR:HG22	1.82	0.61
1:KA:716:VAL:HA	1:KA:719:THR:HG22	1.82	0.61
1:MA:529:ILE:HD12	1:MA:583:VAL:HG11	1.82	0.61
1:NA:274:THR:HG21	1:NA:310:LEU:HG	1.83	0.61
1:QA:681:GLU:OE2	1:QA:685:ARG:NH1	2.34	0.61
1:UA:681:GLU:OE2	1:UA:685:ARG:NH1	2.34	0.61
1:VA:681:GLU:OE2	1:VA:685:ARG:NH1	2.34	0.61
1:WA:274:THR:HG21	1:WA:310:LEU:HG	1.83	0.61
1:YA:529:ILE:HD12	1:YA:583:VAL:HG11	1.82	0.61
1:YA:716:VAL:HA	1:YA:719:THR:HG22	1.82	0.61
1:ZA:8:ILE:HD11	1:ZA:35:TYR:HD2	1.65	0.61
1:AB:179:ARG:HA	1:AB:192:THR:HG23	1.81	0.61
1:BB:684:ALA:HB1	1:CB:675:HIS:CG	2.36	0.61
1:DB:233:GLN:HA	1:DB:245:THR:HG22	1.81	0.61
1:DB:743:GLN:HG3	1:EB:734:ARG:NH2	2.16	0.61
1:FB:681:GLU:OE2	1:FB:685:ARG:NH1	2.34	0.61
1:GB:179:ARG:HA	1:GB:192:THR:HG23	1.81	0.61
1:KB:529:ILE:HD12	1:KB:583:VAL:HG11	1.82	0.61
1:MB:724:ALA:HB1	1:NB:714:MET:CE	2.29	0.61
1:NB:274:THR:HG21	1:NB:310:LEU:HG	1.83	0.61
1:PB:753:ILE:HA	1:PB:756:GLU:HB2	1.81	0.61
1:QB:8:ILE:HD11	1:QB:35:TYR:HD2	1.65	0.61
1:SB:299:LYS:NZ	1:SB:317:GLU:OE2	2.32	0.61
1:UB:274:THR:HG21	1:UB:310:LEU:HG	1.82	0.61
1:XB:716:VAL:HA	1:XB:719:THR:HG22	1.82	0.61
1:ZB:529:ILE:HD12	1:ZB:583:VAL:HG11	1.82	0.61
1:ZB:775:ALA:O	1:ZB:779:LEU:HG	1.99	0.61
1:A:752:ALA:HA	1:NB:761:ARG:HB2	1.80	0.61
1:B:681:GLU:OE2	1:B:685:ARG:NH1	2.34	0.61
1:J:233:GLN:HA	1:J:245:THR:HG22	1.81	0.61
1:K:529:ILE:HD12	1:K:583:VAL:HG11	1.82	0.61
1:M:753:ILE:HA	1:M:756:GLU:HB2	1.81	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:P:8:ILE:HD11	1:P:35:TYR:HD2	1.65	0.61
1:P:274:THR:HG21	1:P:310:LEU:HG	1.82	0.61
1:R:274:THR:HG21	1:R:310:LEU:HG	1.83	0.61
1:V:529:ILE:HD12	1:V:583:VAL:HG11	1.82	0.61
1:V:681:GLU:OE2	1:V:685:ARG:NH1	2.34	0.61
1:BA:681:GLU:OE2	1:BA:685:ARG:NH1	2.34	0.61
1:GA:274:THR:HG21	1:GA:310:LEU:HG	1.83	0.61
1:HA:529:ILE:HD12	1:HA:583:VAL:HG11	1.82	0.61
1:HA:691:GLN:OE1	1:JA:679:ARG:NH2	2.34	0.61
1:LA:529:ILE:HD12	1:LA:583:VAL:HG11	1.82	0.61
1:LA:716:VAL:HA	1:LA:719:THR:HG22	1.82	0.61
1:NA:681:GLU:OE2	1:NA:685:ARG:NH1	2.34	0.61
1:TA:8:ILE:HD11	1:TA:35:TYR:HD2	1.65	0.61
1:TA:753:ILE:HA	1:TA:756:GLU:HB2	1.81	0.61
1:YA:466:ALA:HB1	1:YA:515:CYS:HB2	1.81	0.61
1:DB:466:ALA:HB1	1:DB:515:CYS:HB2	1.81	0.61
1:DB:716:VAL:HA	1:DB:719:THR:HG22	1.82	0.61
1:IB:8:ILE:HD11	1:IB:35:TYR:HD2	1.65	0.61
1:NB:179:ARG:HA	1:NB:192:THR:HG23	1.81	0.61
1:NB:681:GLU:OE2	1:NB:685:ARG:NH1	2.34	0.61
1:NB:753:ILE:HA	1:NB:756:GLU:HB2	1.81	0.61
1:TB:643:VAL:CG2	1:UB:530:GLU:OE2	2.48	0.61
1:TB:681:GLU:OE2	1:TB:685:ARG:NH1	2.34	0.61
1:ZB:233:GLN:HA	1:ZB:245:THR:HG22	1.81	0.61
1:ZB:681:GLU:OE2	1:ZB:685:ARG:NH1	2.34	0.61
1:AC:529:ILE:HD12	1:AC:583:VAL:HG11	1.82	0.61
1:C:765:VAL:HG12	1:E:759:LEU:HB2	1.81	0.61
1:C:783:LYS:N	1:E:777:LEU:CG	2.60	0.61
1:D:51:VAL:CG2	1:F:86:ALA:HA	2.30	0.61
1:J:8:ILE:HD11	1:J:35:TYR:HD2	1.65	0.61
1:M:533:ASP:OD2	1:M:587:THR:OG1	2.17	0.61
1:O:681:GLU:OE2	1:O:685:ARG:NH1	2.34	0.61
1:P:716:VAL:HA	1:P:719:THR:HG22	1.82	0.61
1:Q:8:ILE:HD11	1:Q:35:TYR:HD2	1.65	0.61
1:Q:716:VAL:HA	1:Q:719:THR:HG22	1.82	0.61
1:CA:681:GLU:OE2	1:CA:685:ARG:NH1	2.34	0.61
1:CA:716:VAL:HA	1:CA:719:THR:HG22	1.82	0.61
1:DA:529:ILE:HD12	1:DA:583:VAL:HG11	1.82	0.61
1:JA:8:ILE:HD11	1:JA:35:TYR:HD2	1.65	0.61
1:KA:681:GLU:OE2	1:KA:685:ARG:NH1	2.34	0.61
1:LA:681:GLU:OE2	1:LA:685:ARG:NH1	2.34	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:OA:179:ARG:HA	1:OA:192:THR:HG23	1.81	0.61
1:RA:8:ILE:HD11	1:RA:35:TYR:HD2	1.65	0.61
1:TA:716:VAL:HA	1:TA:719:THR:HG22	1.82	0.61
1:WA:233:GLN:HA	1:WA:245:THR:HG22	1.81	0.61
1:WA:681:GLU:OE2	1:WA:685:ARG:NH1	2.34	0.61
1:XA:529:ILE:HD12	1:XA:583:VAL:HG11	1.82	0.61
1:ZA:529:ILE:HD12	1:ZA:583:VAL:HG11	1.82	0.61
1:ZA:716:VAL:HA	1:ZA:719:THR:HG22	1.82	0.61
1:FB:724:ALA:HB1	1:GB:715:ALA:HA	1.82	0.61
1:MB:233:GLN:HA	1:MB:245:THR:HG22	1.81	0.61
1:PB:681:GLU:OE2	1:PB:685:ARG:NH1	2.34	0.61
1:TB:779:LEU:HD22	1:UB:774:ARG:CZ	2.28	0.61
1:UB:233:GLN:HA	1:UB:245:THR:HG22	1.81	0.61
1:UB:775:ALA:O	1:UB:779:LEU:HG	1.99	0.61
1:VB:274:THR:HG21	1:VB:310:LEU:HG	1.82	0.61
1:ZB:749:GLN:HE22	1:AC:741:VAL:CG2	2.14	0.61
1:A:274:THR:HG21	1:A:310:LEU:HG	1.82	0.61
1:C:717:GLU:HG3	1:E:707:LEU:HD22	1.83	0.61
1:C:728:SER:HB2	1:E:718:SER:O	2.01	0.61
1:D:658:VAL:HG11	1:F:650:THR:OG1	1.99	0.61
1:D:716:VAL:HA	1:D:719:THR:HG22	1.82	0.61
1:F:466:ALA:HB1	1:F:515:CYS:HB2	1.81	0.61
1:J:681:GLU:OE2	1:J:685:ARG:NH1	2.34	0.61
1:L:529:ILE:HD12	1:L:583:VAL:HG11	1.82	0.61
1:P:753:ILE:HA	1:P:756:GLU:HB2	1.81	0.61
1:T:681:GLU:OE2	1:T:685:ARG:NH1	2.34	0.61
1:CA:274:THR:HG21	1:CA:310:LEU:HG	1.82	0.61
1:EA:681:GLU:OE2	1:EA:685:ARG:NH1	2.34	0.61
1:HA:274:THR:HG21	1:HA:310:LEU:HG	1.83	0.61
1:IA:692:LYS:HG3	1:KA:682:GLN:HG2	1.83	0.61
1:JA:681:GLU:OE2	1:JA:685:ARG:NH1	2.34	0.61
1:OA:753:ILE:HA	1:OA:756:GLU:HB2	1.81	0.61
1:PA:681:GLU:OE2	1:PA:685:ARG:NH1	2.34	0.61
1:ZA:681:GLU:OE2	1:ZA:685:ARG:NH1	2.34	0.61
1:BB:681:GLU:OE2	1:BB:685:ARG:NH1	2.34	0.61
1:DB:673:ALA:CB	1:EB:664:ILE:CD1	2.78	0.61
1:FB:382:LEU:N	1:GB:396:GLY:HA3	2.15	0.61
1:HB:681:GLU:OE2	1:HB:685:ARG:NH1	2.34	0.61
1:IB:274:THR:HG21	1:IB:310:LEU:HG	1.83	0.61
1:JB:681:GLU:OE2	1:JB:685:ARG:NH1	2.34	0.61
1:MB:8:ILE:HD11	1:MB:35:TYR:HD2	1.65	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:MB:274:THR:HG21	1:MB:310:LEU:HG	1.83	0.61
1:MB:742:LEU:HB3	1:NB:734:ARG:NE	2.16	0.61
1:NB:529:ILE:HD12	1:NB:583:VAL:HG11	1.82	0.61
1:RB:768:MET:HE3	1:SB:763:LYS:HB2	1.83	0.61
1:SB:775:ALA:O	1:SB:779:LEU:HG	1.99	0.61
1:TB:640:VAL:O	1:UB:580:ARG:NE	2.33	0.61
1:XB:8:ILE:HD11	1:XB:35:TYR:HD2	1.65	0.61
1:YB:681:GLU:OE2	1:YB:685:ARG:NH1	2.34	0.61
1:A:728:SER:CB	1:C:718:SER:O	2.48	0.61
1:G:529:ILE:HD12	1:G:583:VAL:HG11	1.82	0.61
1:L:790:VAL:HG13	1:N:788:ALA:CB	2.31	0.61
1:S:716:VAL:HA	1:S:719:THR:HG22	1.82	0.61
1:FA:233:GLN:HA	1:FA:245:THR:HG22	1.81	0.61
1:GA:681:GLU:OE2	1:GA:685:ARG:NH1	2.34	0.61
1:HA:753:ILE:HA	1:HA:756:GLU:HB2	1.81	0.61
1:IA:529:ILE:HD12	1:IA:583:VAL:HG11	1.82	0.61
1:IA:681:GLU:OE2	1:IA:685:ARG:NH1	2.34	0.61
1:NA:529:ILE:HD12	1:NA:583:VAL:HG11	1.82	0.61
1:SA:8:ILE:HD11	1:SA:35:TYR:HD2	1.65	0.61
1:TA:775:ALA:O	1:TA:779:LEU:HG	1.99	0.61
1:WA:8:ILE:HD11	1:WA:35:TYR:HD2	1.65	0.61
1:AB:681:GLU:OE2	1:AB:685:ARG:NH1	2.34	0.61
1:DB:529:ILE:HD12	1:DB:583:VAL:HG11	1.82	0.61
1:EB:233:GLN:HA	1:EB:245:THR:HG22	1.81	0.61
1:FB:274:THR:HG21	1:FB:310:LEU:HG	1.83	0.61
1:FB:641:GLN:NE2	1:GB:573:LYS:HB2	2.16	0.61
1:IB:681:GLU:OE2	1:IB:685:ARG:NH1	2.34	0.61
1:JB:529:ILE:HD12	1:JB:583:VAL:HG11	1.82	0.61
1:KB:233:GLN:HA	1:KB:245:THR:HG22	1.81	0.61
1:LB:681:GLU:OE2	1:LB:685:ARG:NH1	2.34	0.61
1:OB:257:GLU:OE2	1:PB:244:ARG:HG3	2.01	0.61
1:RB:529:ILE:HD12	1:RB:583:VAL:HG11	1.82	0.61
1:UB:8:ILE:HD11	1:UB:35:TYR:HD2	1.65	0.61
1:UB:466:ALA:HB1	1:UB:515:CYS:HB2	1.81	0.61
1:UB:742:LEU:HD21	1:VB:737:GLY:CA	2.28	0.61
1:WB:681:GLU:OE2	1:WB:685:ARG:NH1	2.34	0.61
1:YB:233:GLN:HA	1:YB:245:THR:HG22	1.81	0.61
1:ZB:746:LEU:CD1	1:AC:737:GLY:H	2.13	0.61
1:D:179:ARG:HA	1:D:192:THR:HG23	1.81	0.61
1:D:327:SER:HB3	1:F:354:GLY:C	2.21	0.61
1:D:364:GLU:CB	1:F:339:PRO:HG3	2.31	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:681:GLU:OE2	1:G:685:ARG:NH1	2.34	0.61
1:H:681:GLU:OE2	1:H:685:ARG:NH1	2.34	0.61
1:K:681:GLU:OE2	1:K:685:ARG:NH1	2.34	0.61
1:N:118:ASN:HD21	1:P:180:LYS:HA	1.65	0.61
1:N:522:PHE:CD2	1:P:573:LYS:HE2	2.35	0.61
1:O:753:ILE:HA	1:O:756:GLU:HB2	1.81	0.61
1:S:8:ILE:HD11	1:S:35:TYR:HD2	1.65	0.61
1:W:681:GLU:OE2	1:W:685:ARG:NH1	2.34	0.61
1:Z:274:THR:HG21	1:Z:310:LEU:HG	1.83	0.61
1:FA:775:ALA:O	1:FA:779:LEU:HG	1.99	0.61
1:BB:529:ILE:HD12	1:BB:583:VAL:HG11	1.82	0.61
1:FB:533:ASP:OD2	1:FB:587:THR:OG1	2.17	0.61
1:GB:681:GLU:OE2	1:GB:685:ARG:NH1	2.34	0.61
1:KB:681:GLU:OE2	1:KB:685:ARG:NH1	2.34	0.61
1:LB:716:VAL:HA	1:LB:719:THR:HG22	1.82	0.61
1:MB:716:VAL:HA	1:MB:719:THR:HG22	1.82	0.61
1:QB:681:GLU:OE2	1:QB:685:ARG:NH1	2.34	0.61
1:RB:595:SER:CB	1:SB:580:ARG:HH12	2.14	0.61
1:TB:787:LEU:CD2	1:UB:781:VAL:HG13	2.30	0.61
1:VB:655:GLN:HG2	1:WB:649:ARG:HD3	1.83	0.61
1:ZB:8:ILE:HD11	1:ZB:35:TYR:HD2	1.65	0.61
1:AC:274:THR:HG21	1:AC:310:LEU:HG	1.82	0.61
1:B:8:ILE:HD11	1:B:35:TYR:HD2	1.65	0.61
1:C:739:GLY:CA	1:E:734:ARG:CZ	2.79	0.61
1:D:9:ARG:CZ	1:F:21:GLN:CB	2.76	0.61
1:D:49:ARG:HD3	1:F:63:ASN:HD21	1.64	0.61
1:D:662:ILE:HG13	1:F:654:LEU:HD21	1.82	0.61
1:D:681:GLU:OE2	1:D:685:ARG:NH1	2.34	0.61
1:D:717:GLU:HG3	1:F:707:LEU:HD13	1.82	0.61
1:E:529:ILE:HD12	1:E:583:VAL:HG11	1.82	0.61
1:F:716:VAL:HA	1:F:719:THR:HG22	1.82	0.61
1:I:529:ILE:HD12	1:I:583:VAL:HG11	1.82	0.61
1:L:689:GLU:O	1:L:693:ILE:HG12	2.01	0.61
1:N:689:GLU:O	1:N:693:ILE:HG12	2.01	0.61
1:P:689:GLU:O	1:P:693:ILE:HG12	2.01	0.61
1:S:689:GLU:O	1:S:693:ILE:HG12	2.01	0.61
1:T:274:THR:HG21	1:T:310:LEU:HG	1.83	0.61
1:V:689:GLU:O	1:V:693:ILE:HG12	2.01	0.61
1:X:529:ILE:HD12	1:X:583:VAL:HG11	1.82	0.61
1:Y:716:VAL:HA	1:Y:719:THR:HG22	1.82	0.61
1:CA:689:GLU:O	1:CA:693:ILE:HG12	2.01	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:EA:689:GLU:O	1:EA:693:ILE:HG12	2.01	0.61
1:HA:681:GLU:OE2	1:HA:685:ARG:NH1	2.34	0.61
1:IA:169:LYS:HZ2	1:KA:194:GLU:CB	2.14	0.61
1:LA:274:THR:HG21	1:LA:310:LEU:HG	1.83	0.61
1:OA:274:THR:HG21	1:OA:310:LEU:HG	1.82	0.61
1:UA:8:ILE:HD11	1:UA:35:TYR:HD2	1.65	0.61
1:VA:689:GLU:O	1:VA:693:ILE:HG12	2.01	0.61
1:VA:706:LEU:CD2	1:XA:693:ILE:HG23	2.30	0.61
1:AB:716:VAL:HA	1:AB:719:THR:HG22	1.82	0.61
1:CB:8:ILE:HD11	1:CB:35:TYR:HD2	1.65	0.61
1:JB:8:ILE:HD11	1:JB:35:TYR:HD2	1.65	0.61
1:KB:689:GLU:O	1:KB:693:ILE:HG12	2.01	0.61
1:LB:639:ASP:OD2	1:MB:574:ALA:HA	2.01	0.61
1:NB:8:ILE:HD11	1:NB:35:TYR:HD2	1.65	0.61
1:OB:405:THR:HB	1:PB:396:GLY:CA	2.30	0.61
1:OB:687:ARG:CZ	1:PB:679:ARG:HH11	2.14	0.61
1:UB:689:GLU:O	1:UB:693:ILE:HG12	2.01	0.61
1:VB:689:GLU:O	1:VB:693:ILE:HG12	2.01	0.61
1:YB:529:ILE:HD12	1:YB:583:VAL:HG11	1.82	0.61
1:ZB:274:THR:HG21	1:ZB:310:LEU:HG	1.83	0.61
1:ZB:716:VAL:HA	1:ZB:719:THR:HG22	1.82	0.61
1:B:753:ILE:HA	1:B:756:GLU:HB2	1.81	0.60
1:C:274:THR:HG21	1:C:310:LEU:HG	1.82	0.60
1:D:728:SER:HA	1:F:719:THR:CB	2.30	0.60
1:E:794:LYS:HB2	1:G:788:ALA:HB1	1.83	0.60
1:F:681:GLU:OE2	1:F:685:ARG:NH1	2.34	0.60
1:N:681:GLU:OE2	1:N:685:ARG:NH1	2.34	0.60
1:V:274:THR:HG21	1:V:310:LEU:HG	1.83	0.60
1:DA:179:ARG:HA	1:DA:192:THR:HG23	1.81	0.60
1:EA:753:ILE:HA	1:EA:756:GLU:HB2	1.81	0.60
1:FA:689:GLU:O	1:FA:693:ILE:HG12	2.01	0.60
1:GA:716:VAL:HA	1:GA:719:THR:HG22	1.82	0.60
1:IA:805:GLY:O	1:IA:808:ARG:HG2	2.01	0.60
1:OA:681:GLU:OE2	1:OA:685:ARG:NH1	2.34	0.60
1:OA:716:VAL:HA	1:OA:719:THR:HG22	1.82	0.60
1:PA:716:VAL:HA	1:PA:719:THR:HG22	1.82	0.60
1:TA:689:GLU:O	1:TA:693:ILE:HG12	2.01	0.60
1:WA:716:VAL:HA	1:WA:719:THR:HG22	1.82	0.60
1:XA:716:VAL:HA	1:XA:719:THR:HG22	1.82	0.60
1:YA:8:ILE:HD11	1:YA:35:TYR:HD2	1.65	0.60
1:BB:724:ALA:HB1	1:CB:714:MET:CE	2.30	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:LB:274:THR:HG21	1:LB:310:LEU:HG	1.83	0.60
1:LB:743:GLN:HE21	1:MB:734:ARG:HH21	1.42	0.60
1:MB:529:ILE:HD12	1:MB:583:VAL:HG11	1.82	0.60
1:NB:805:GLY:O	1:NB:808:ARG:HG2	2.01	0.60
1:OB:689:GLU:O	1:OB:693:ILE:HG12	2.01	0.60
1:AC:681:GLU:OE2	1:AC:685:ARG:NH1	2.34	0.60
1:A:695:ASP:CB	1:C:686:GLY:CA	2.79	0.60
1:A:768:MET:HE2	1:C:759:LEU:O	1.97	0.60
1:B:689:GLU:O	1:B:693:ILE:HG12	2.01	0.60
1:B:716:VAL:HA	1:B:719:THR:HG22	1.82	0.60
1:D:529:ILE:HD12	1:D:583:VAL:HG11	1.82	0.60
1:D:542:ALA:HB1	1:F:573:LYS:HE2	1.83	0.60
1:L:56:ARG:NH1	1:N:128:ASP:HB2	2.16	0.60
1:N:274:THR:HG21	1:N:310:LEU:HG	1.82	0.60
1:O:716:VAL:HA	1:O:719:THR:HG22	1.82	0.60
1:Q:689:GLU:O	1:Q:693:ILE:HG12	2.01	0.60
1:Q:805:GLY:O	1:Q:808:ARG:HG2	2.02	0.60
1:R:689:GLU:O	1:R:693:ILE:HG12	2.01	0.60
1:W:716:VAL:HA	1:W:719:THR:HG22	1.82	0.60
1:FA:681:GLU:OE2	1:FA:685:ARG:NH1	2.34	0.60
1:HA:689:GLU:O	1:HA:693:ILE:HG12	2.01	0.60
1:OA:805:GLY:O	1:OA:808:ARG:HG2	2.01	0.60
1:QA:753:ILE:HA	1:QA:756:GLU:HB2	1.81	0.60
1:VA:529:ILE:HD12	1:VA:583:VAL:HG11	1.82	0.60
1:XA:689:GLU:O	1:XA:693:ILE:HG12	2.01	0.60
1:BB:8:ILE:HD11	1:BB:35:TYR:HD2	1.65	0.60
1:BB:716:VAL:HA	1:BB:719:THR:HG22	1.82	0.60
1:BB:805:GLY:O	1:BB:808:ARG:HG2	2.01	0.60
1:GB:529:ILE:HD12	1:GB:583:VAL:HG11	1.82	0.60
1:HB:274:THR:HG21	1:HB:310:LEU:HG	1.82	0.60
1:HB:716:VAL:HA	1:HB:719:THR:HG22	1.82	0.60
1:JB:753:ILE:HA	1:JB:756:GLU:HB2	1.81	0.60
1:OB:681:GLU:OE2	1:OB:685:ARG:NH1	2.34	0.60
1:PB:274:THR:HG21	1:PB:310:LEU:HG	1.82	0.60
1:PB:689:GLU:O	1:PB:693:ILE:HG12	2.01	0.60
1:RB:805:GLY:O	1:RB:808:ARG:HG2	2.02	0.60
1:TB:274:THR:HG21	1:TB:310:LEU:HG	1.82	0.60
1:UB:681:GLU:OE2	1:UB:685:ARG:NH1	2.34	0.60
1:UB:806:THR:CG2	1:VB:808:ARG:HB3	2.32	0.60
1:VB:728:SER:CB	1:WB:722:ALA:CB	2.77	0.60
1:WB:529:ILE:HD12	1:WB:583:VAL:HG11	1.82	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:XB:274:THR:HG21	1:XB:310:LEU:HG	1.82	0.60
1:AC:689:GLU:O	1:AC:693:ILE:HG12	2.01	0.60
1:A:689:GLU:O	1:A:693:ILE:HG12	2.01	0.60
1:A:768:MET:CE	1:C:763:LYS:CA	2.76	0.60
1:C:681:GLU:OE2	1:C:685:ARG:NH1	2.34	0.60
1:C:716:VAL:HA	1:C:719:THR:HG22	1.82	0.60
1:D:57:HIS:CE1	1:F:127:LEU:CD1	2.76	0.60
1:D:114:VAL:CG2	1:F:138:MET:CE	2.80	0.60
1:G:166:THR:HG21	1:G:212:VAL:HG11	1.84	0.60
1:G:805:GLY:O	1:G:808:ARG:HG2	2.01	0.60
1:I:805:GLY:O	1:I:808:ARG:HG2	2.02	0.60
1:J:274:THR:HG21	1:J:310:LEU:HG	1.83	0.60
1:L:716:VAL:HA	1:L:719:THR:HG22	1.82	0.60
1:P:798:MET:CE	1:R:795:PHE:CD2	2.84	0.60
1:P:805:GLY:O	1:P:808:ARG:HG2	2.02	0.60
1:BA:529:ILE:HD12	1:BA:583:VAL:HG11	1.82	0.60
1:BA:753:ILE:HA	1:BA:756:GLU:HB2	1.81	0.60
1:BA:805:GLY:O	1:BA:808:ARG:HG2	2.02	0.60
1:HA:695:ASP:CG	1:JA:686:GLY:HA3	2.21	0.60
1:IA:54:PRO:HA	1:KA:86:ALA:HB1	1.83	0.60
1:MA:681:GLU:OE2	1:MA:685:ARG:NH1	2.34	0.60
1:PA:274:THR:HG21	1:PA:310:LEU:HG	1.82	0.60
1:QA:805:GLY:O	1:QA:808:ARG:HG2	2.01	0.60
1:RA:689:GLU:O	1:RA:693:ILE:HG12	2.01	0.60
1:SA:274:THR:HG21	1:SA:310:LEU:HG	1.82	0.60
1:SA:529:ILE:HD12	1:SA:583:VAL:HG11	1.82	0.60
1:UA:529:ILE:HD12	1:UA:583:VAL:HG11	1.82	0.60
1:VA:166:THR:HG21	1:VA:212:VAL:HG11	1.84	0.60
1:VA:274:THR:HG21	1:VA:310:LEU:HG	1.82	0.60
1:VA:716:VAL:HA	1:VA:719:THR:HG22	1.82	0.60
1:ZA:757:ALA:HB2	1:BB:748:ALA:HB1	1.83	0.60
1:AB:689:GLU:O	1:AB:693:ILE:HG12	2.01	0.60
1:EB:716:VAL:HG21	1:FB:708:GLU:HG2	1.83	0.60
1:EB:753:ILE:HA	1:EB:756:GLU:HB2	1.81	0.60
1:FB:8:ILE:HD11	1:FB:35:TYR:HD2	1.65	0.60
1:HB:166:THR:HG21	1:HB:212:VAL:HG11	1.84	0.60
1:JB:274:THR:HG21	1:JB:310:LEU:HG	1.83	0.60
1:JB:689:GLU:O	1:JB:693:ILE:HG12	2.01	0.60
1:KB:716:VAL:HA	1:KB:719:THR:HG22	1.82	0.60
1:LB:166:THR:HG21	1:LB:212:VAL:HG11	1.84	0.60
1:MB:681:GLU:OE2	1:MB:685:ARG:NH1	2.34	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:OB:592:HIS:CE1	1:PB:530:GLU:HB3	2.37	0.60
1:OB:779:LEU:CD2	1:PB:777:LEU:HD12	2.31	0.60
1:OB:805:GLY:O	1:OB:808:ARG:HG2	2.02	0.60
1:RB:274:THR:HG21	1:RB:310:LEU:HG	1.83	0.60
1:RB:681:GLU:OE2	1:RB:685:ARG:NH1	2.34	0.60
1:TB:166:THR:HG21	1:TB:212:VAL:HG11	1.84	0.60
1:TB:805:GLY:O	1:TB:808:ARG:HG2	2.02	0.60
1:UB:166:THR:HG21	1:UB:212:VAL:HG11	1.84	0.60
1:YB:753:ILE:HA	1:YB:756:GLU:HB2	1.81	0.60
1:A:8:ILE:HD11	1:A:35:TYR:HD2	1.65	0.60
1:D:754:GLU:CG	1:F:744:ALA:HB1	2.17	0.60
1:E:681:GLU:OE2	1:E:685:ARG:NH1	2.34	0.60
1:E:805:GLY:O	1:E:808:ARG:HG2	2.02	0.60
1:G:179:ARG:HA	1:G:192:THR:HG23	1.81	0.60
1:G:689:GLU:O	1:G:693:ILE:HG12	2.01	0.60
1:G:790:VAL:HG11	1:I:784:ALA:CB	2.32	0.60
1:I:681:GLU:OE2	1:I:685:ARG:NH1	2.34	0.60
1:K:8:ILE:HD11	1:K:35:TYR:HD2	1.65	0.60
1:N:166:THR:HG21	1:N:212:VAL:HG11	1.84	0.60
1:O:689:GLU:O	1:O:693:ILE:HG12	2.01	0.60
1:Q:681:GLU:OE2	1:Q:685:ARG:NH1	2.34	0.60
1:R:673:ALA:HB1	1:T:664:ILE:HB	1.83	0.60
1:V:805:GLY:O	1:V:808:ARG:HG2	2.01	0.60
1:Y:681:GLU:OE2	1:Y:685:ARG:NH1	2.34	0.60
1:Z:681:GLU:OE2	1:Z:685:ARG:NH1	2.34	0.60
1:AA:689:GLU:O	1:AA:693:ILE:HG12	2.01	0.60
1:BA:716:VAL:HA	1:BA:719:THR:HG22	1.82	0.60
1:CA:529:ILE:HD12	1:CA:583:VAL:HG11	1.82	0.60
1:FA:166:THR:HG21	1:FA:212:VAL:HG11	1.84	0.60
1:HA:64:PRO:O	1:HA:84:ARG:N	2.28	0.60
1:RA:681:GLU:OE2	1:RA:685:ARG:NH1	2.34	0.60
1:SA:716:VAL:HA	1:SA:719:THR:HG22	1.82	0.60
1:SA:805:GLY:O	1:SA:808:ARG:HG2	2.02	0.60
1:UA:179:ARG:HA	1:UA:192:THR:HG23	1.81	0.60
1:WA:166:THR:HG21	1:WA:212:VAL:HG11	1.84	0.60
1:BB:757:ALA:HB2	1:CB:748:ALA:CB	2.32	0.60
1:DB:274:THR:HG21	1:DB:310:LEU:HG	1.82	0.60
1:EB:681:GLU:OE2	1:EB:685:ARG:NH1	2.34	0.60
1:EB:805:GLY:O	1:EB:808:ARG:HG2	2.01	0.60
1:KB:274:THR:HG21	1:KB:310:LEU:HG	1.82	0.60
1:KB:805:GLY:O	1:KB:808:ARG:HG2	2.01	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:NB:689:GLU:O	1:NB:693:ILE:HG12	2.01	0.60
1:NB:716:VAL:HA	1:NB:719:THR:HG22	1.82	0.60
1:OB:798:MET:SD	1:PB:795:PHE:CD2	2.95	0.60
1:TB:753:ILE:HA	1:TB:756:GLU:HB2	1.81	0.60
1:UB:735:ILE:HG21	1:VB:730:ALA:CA	2.27	0.60
1:UB:790:VAL:HG22	1:VB:788:ALA:CA	2.27	0.60
1:WB:689:GLU:O	1:WB:693:ILE:HG12	2.01	0.60
1:XB:805:GLY:O	1:XB:808:ARG:HG2	2.02	0.60
1:AC:805:GLY:O	1:AC:808:ARG:HG2	2.02	0.60
1:A:681:GLU:OE2	1:A:685:ARG:NH1	2.34	0.60
1:A:805:GLY:O	1:A:808:ARG:HG2	2.02	0.60
1:D:223:GLU:CB	1:F:293:LYS:HD3	2.31	0.60
1:G:117:PRO:HG2	1:I:180:LYS:HD2	1.81	0.60
1:G:474:ARG:HB2	1:G:492:GLU:HB2	1.84	0.60
1:G:716:VAL:HA	1:G:719:THR:HG22	1.82	0.60
1:H:166:THR:HG21	1:H:212:VAL:HG11	1.84	0.60
1:I:716:VAL:HA	1:I:719:THR:HG22	1.82	0.60
1:J:474:ARG:HB2	1:J:492:GLU:HB2	1.84	0.60
1:J:689:GLU:O	1:J:693:ILE:HG12	2.01	0.60
1:L:95:ASP:HB2	1:N:85:HIS:NE2	2.16	0.60
1:O:166:THR:HG21	1:O:212:VAL:HG11	1.84	0.60
1:O:274:THR:HG21	1:O:310:LEU:HG	1.83	0.60
1:P:529:ILE:HD12	1:P:583:VAL:HG11	1.82	0.60
1:Y:689:GLU:O	1:Y:693:ILE:HG12	2.01	0.60
1:Z:166:THR:HG21	1:Z:212:VAL:HG11	1.84	0.60
1:DA:689:GLU:O	1:DA:693:ILE:HG12	2.01	0.60
1:GA:166:THR:HG21	1:GA:212:VAL:HG11	1.84	0.60
1:GA:689:GLU:O	1:GA:693:ILE:HG12	2.01	0.60
1:JA:529:ILE:HD12	1:JA:583:VAL:HG11	1.82	0.60
1:WA:533:ASP:OD2	1:WA:587:THR:OG1	2.17	0.60
1:YA:681:GLU:OE2	1:YA:685:ARG:NH1	2.34	0.60
1:ZA:720:GLY:CA	1:BB:711:ALA:HB1	2.21	0.60
1:BB:274:THR:HG21	1:BB:310:LEU:HG	1.82	0.60
1:DB:805:GLY:O	1:DB:808:ARG:HG2	2.01	0.60
1:FB:464:HIS:CD2	1:GB:469:GLN:NE2	2.69	0.60
1:FB:529:ILE:HD12	1:FB:583:VAL:HG11	1.82	0.60
1:LB:689:GLU:O	1:LB:693:ILE:HG12	2.01	0.60
1:MB:742:LEU:CD2	1:NB:734:ARG:NE	2.61	0.60
1:OB:274:THR:HG21	1:OB:310:LEU:HG	1.82	0.60
1:OB:790:VAL:HG22	1:PB:788:ALA:HB2	1.84	0.60
1:RB:166:THR:HG21	1:RB:212:VAL:HG11	1.84	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:SB:666:THR:CG2	1:TB:657:SER:HB2	2.30	0.60
1:TB:689:GLU:O	1:TB:693:ILE:HG12	2.01	0.60
1:TB:790:VAL:HG11	1:UB:785:GLN:OE1	2.01	0.60
1:YB:166:THR:HG21	1:YB:212:VAL:HG11	1.84	0.60
1:ZB:474:ARG:HB2	1:ZB:492:GLU:HB2	1.84	0.60
1:B:805:GLY:O	1:B:808:ARG:HG2	2.01	0.60
1:C:166:THR:HG21	1:C:212:VAL:HG11	1.84	0.60
1:D:9:ARG:CG	1:F:23:SER:O	2.48	0.60
1:F:166:THR:HG21	1:F:212:VAL:HG11	1.84	0.60
1:F:474:ARG:HB2	1:F:492:GLU:HB2	1.84	0.60
1:H:529:ILE:HD12	1:H:583:VAL:HG11	1.82	0.60
1:I:39:ASP:CG	1:VB:39:ASP:OD2	2.39	0.60
1:M:474:ARG:HB2	1:M:492:GLU:HB2	1.84	0.60
1:P:790:VAL:HG13	1:R:788:ALA:HB1	1.80	0.60
1:R:529:ILE:HD12	1:R:583:VAL:HG11	1.82	0.60
1:R:681:GLU:OE2	1:R:685:ARG:NH1	2.34	0.60
1:S:474:ARG:HB2	1:S:492:GLU:HB2	1.84	0.60
1:T:8:ILE:HD11	1:T:35:TYR:HD2	1.65	0.60
1:W:529:ILE:HD12	1:W:583:VAL:HG11	1.82	0.60
1:X:689:GLU:O	1:X:693:ILE:HG12	2.01	0.60
1:Y:529:ILE:HD12	1:Y:583:VAL:HG11	1.82	0.60
1:BA:474:ARG:HB2	1:BA:492:GLU:HB2	1.84	0.60
1:IA:277:GLY:HA2	1:KA:297:GLY:HA3	1.84	0.60
1:JA:474:ARG:HB2	1:JA:492:GLU:HB2	1.84	0.60
1:LA:166:THR:HG21	1:LA:212:VAL:HG11	1.84	0.60
1:LA:474:ARG:HB2	1:LA:492:GLU:HB2	1.84	0.60
1:MA:689:GLU:O	1:MA:693:ILE:HG12	2.01	0.60
1:QA:166:THR:HG21	1:QA:212:VAL:HG11	1.84	0.60
1:RA:529:ILE:HD12	1:RA:583:VAL:HG11	1.82	0.60
1:SA:681:GLU:OE2	1:SA:685:ARG:NH1	2.34	0.60
1:TA:681:GLU:OE2	1:TA:685:ARG:NH1	2.34	0.60
1:UA:805:GLY:O	1:UA:808:ARG:HG2	2.01	0.60
1:VA:805:GLY:O	1:VA:808:ARG:HG2	2.01	0.60
1:YA:274:THR:HG21	1:YA:310:LEU:HG	1.82	0.60
1:CB:681:GLU:OE2	1:CB:685:ARG:NH1	2.34	0.60
1:DB:689:GLU:O	1:DB:693:ILE:HG12	2.01	0.60
1:GB:689:GLU:O	1:GB:693:ILE:HG12	2.01	0.60
1:IB:716:VAL:HA	1:IB:719:THR:HG22	1.82	0.60
1:QB:274:THR:HG21	1:QB:310:LEU:HG	1.83	0.60
1:SB:474:ARG:HB2	1:SB:492:GLU:HB2	1.84	0.60
1:SB:681:GLU:OE2	1:SB:685:ARG:NH1	2.34	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:UB:749:GLN:CB	1:VB:744:ALA:HB2	2.30	0.60
1:VB:681:GLU:OE2	1:VB:685:ARG:NH1	2.34	0.60
1:VB:805:GLY:O	1:VB:808:ARG:HG2	2.01	0.60
1:WB:274:THR:HG21	1:WB:310:LEU:HG	1.83	0.60
1:A:700:GLU:OE1	1:NB:710:GLU:HG3	2.01	0.60
1:A:714:MET:HA	1:C:707:LEU:HD13	1.83	0.60
1:A:801:ALA:CB	1:C:796:LYS:HG3	2.27	0.60
1:D:325:VAL:HG13	1:F:353:ALA:CB	2.30	0.60
1:D:641:GLN:CG	1:F:573:LYS:HB2	2.31	0.60
1:G:790:VAL:HG22	1:I:785:GLN:HA	1.83	0.60
1:I:689:GLU:O	1:I:693:ILE:HG12	2.01	0.60
1:K:274:THR:HG21	1:K:310:LEU:HG	1.83	0.60
1:L:681:GLU:OE2	1:L:685:ARG:NH1	2.34	0.60
1:M:681:GLU:OE2	1:M:685:ARG:NH1	2.34	0.60
1:R:166:THR:HG21	1:R:212:VAL:HG11	1.84	0.60
1:R:805:GLY:O	1:R:808:ARG:HG2	2.01	0.60
1:S:166:THR:HG21	1:S:212:VAL:HG11	1.84	0.60
1:V:716:VAL:HA	1:V:719:THR:HG22	1.82	0.60
1:W:805:GLY:O	1:W:808:ARG:HG2	2.01	0.60
1:AA:474:ARG:HB2	1:AA:492:GLU:HB2	1.84	0.60
1:GA:529:ILE:HD12	1:GA:583:VAL:HG11	1.82	0.60
1:JA:689:GLU:O	1:JA:693:ILE:HG12	2.01	0.60
1:MA:805:GLY:O	1:MA:808:ARG:HG2	2.02	0.60
1:QA:8:ILE:HD11	1:QA:35:TYR:HD2	1.65	0.60
1:QA:689:GLU:O	1:QA:693:ILE:HG12	2.01	0.60
1:TA:274:THR:HG21	1:TA:310:LEU:HG	1.83	0.60
1:YA:805:GLY:O	1:YA:808:ARG:HG2	2.02	0.60
1:ZA:805:GLY:O	1:ZA:808:ARG:HG2	2.01	0.60
1:AB:805:GLY:O	1:AB:808:ARG:HG2	2.01	0.60
1:CB:689:GLU:O	1:CB:693:ILE:HG12	2.01	0.60
1:DB:720:GLY:HA3	1:EB:711:ALA:HB1	1.79	0.60
1:FB:474:ARG:HB2	1:FB:492:GLU:HB2	1.84	0.60
1:LB:805:GLY:O	1:LB:808:ARG:HG2	2.02	0.60
1:OB:166:THR:HG21	1:OB:212:VAL:HG11	1.84	0.60
1:PB:166:THR:HG21	1:PB:212:VAL:HG11	1.84	0.60
1:PB:805:GLY:O	1:PB:808:ARG:HG2	2.01	0.60
1:QB:689:GLU:O	1:QB:693:ILE:HG12	2.01	0.60
1:RB:8:ILE:HD11	1:RB:35:TYR:HD2	1.65	0.60
1:SB:710:GLU:HG3	1:TB:700:GLU:OE1	2.02	0.60
1:TB:592:HIS:NE2	1:UB:534:HIS:CB	2.64	0.60
1:UB:757:ALA:HB1	1:VB:751:LEU:O	2.01	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:XB:681:GLU:OE2	1:XB:685:ARG:NH1	2.34	0.60
1:B:534:HIS:C	1:AC:658:VAL:HG22	2.21	0.60
1:J:805:GLY:O	1:J:808:ARG:HG2	2.01	0.60
1:K:805:GLY:O	1:K:808:ARG:HG2	2.01	0.60
1:R:716:VAL:HA	1:R:719:THR:HG22	1.82	0.60
1:T:689:GLU:O	1:T:693:ILE:HG12	2.01	0.60
1:W:274:THR:HG21	1:W:310:LEU:HG	1.83	0.60
1:EA:716:VAL:HA	1:EA:719:THR:HG22	1.82	0.60
1:GA:8:ILE:HD11	1:GA:35:TYR:HD2	1.65	0.60
1:GA:474:ARG:HB2	1:GA:492:GLU:HB2	1.84	0.60
1:KA:166:THR:HG21	1:KA:212:VAL:HG11	1.84	0.60
1:MA:716:VAL:HA	1:MA:719:THR:HG22	1.82	0.60
1:OA:689:GLU:O	1:OA:693:ILE:HG12	2.01	0.60
1:PA:805:GLY:O	1:PA:808:ARG:HG2	2.01	0.60
1:RA:805:GLY:O	1:RA:808:ARG:HG2	2.02	0.60
1:SA:689:GLU:O	1:SA:693:ILE:HG12	2.01	0.60
1:VA:474:ARG:HB2	1:VA:492:GLU:HB2	1.84	0.60
1:ZA:166:THR:HG21	1:ZA:212:VAL:HG11	1.84	0.60
1:ZA:689:GLU:O	1:ZA:693:ILE:HG12	2.01	0.60
1:DB:728:SER:CB	1:EB:718:SER:CB	2.78	0.60
1:FB:716:VAL:HA	1:FB:719:THR:HG22	1.83	0.60
1:GB:8:ILE:HD11	1:GB:35:TYR:HD2	1.65	0.60
1:HB:689:GLU:O	1:HB:693:ILE:HG12	2.01	0.60
1:JB:474:ARG:HB2	1:JB:492:GLU:HB2	1.84	0.60
1:KB:166:THR:HG21	1:KB:212:VAL:HG11	1.84	0.60
1:LB:8:ILE:HD11	1:LB:35:TYR:HD2	1.65	0.60
1:LB:728:SER:CA	1:MB:719:THR:CA	2.63	0.60
1:OB:757:ALA:HB1	1:PB:752:ALA:HA	1.83	0.60
1:UB:768:MET:CE	1:VB:762:VAL:O	2.49	0.60
1:VB:716:VAL:HA	1:VB:719:THR:HG22	1.82	0.60
1:XB:166:THR:HG21	1:XB:212:VAL:HG11	1.84	0.60
1:ZB:689:GLU:O	1:ZB:693:ILE:HG12	2.01	0.60
1:AC:166:THR:HG21	1:AC:212:VAL:HG11	1.84	0.60
1:AC:716:VAL:HA	1:AC:719:THR:HG22	1.82	0.60
1:D:57:HIS:NE2	1:F:127:LEU:HD13	2.16	0.60
1:D:329:GLN:NE2	1:F:394:LYS:CE	2.64	0.60
1:D:520:PRO:O	1:F:563:SER:O	2.19	0.60
1:E:743:GLN:HG3	1:G:734:ARG:HH21	1.66	0.60
1:H:474:ARG:HB2	1:H:492:GLU:HB2	1.84	0.60
1:I:166:THR:HG21	1:I:212:VAL:HG11	1.84	0.60
1:I:474:ARG:HB2	1:I:492:GLU:HB2	1.84	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:533:ASP:OD2	1:K:587:THR:OG1	2.17	0.60
1:L:274:THR:HG21	1:L:310:LEU:HG	1.83	0.60
1:L:474:ARG:HB2	1:L:492:GLU:HB2	1.84	0.60
1:L:798:MET:SD	1:N:795:PHE:CD2	2.94	0.60
1:M:805:GLY:O	1:M:808:ARG:HG2	2.01	0.60
1:O:474:ARG:HB2	1:O:492:GLU:HB2	1.84	0.60
1:T:529:ILE:HD12	1:T:583:VAL:HG11	1.82	0.60
1:X:681:GLU:OE2	1:X:685:ARG:NH1	2.34	0.60
1:DA:681:GLU:OE2	1:DA:685:ARG:NH1	2.34	0.60
1:DA:716:VAL:HA	1:DA:719:THR:HG22	1.82	0.60
1:EA:533:ASP:OD2	1:EA:587:THR:OG1	2.17	0.60
1:EA:805:GLY:O	1:EA:808:ARG:HG2	2.02	0.60
1:HA:279:ARG:HH22	1:JA:299:LYS:HZ2	1.48	0.60
1:HA:474:ARG:HB2	1:HA:492:GLU:HB2	1.84	0.60
1:KA:689:GLU:O	1:KA:693:ILE:HG12	2.01	0.60
1:NA:474:ARG:HB2	1:NA:492:GLU:HB2	1.84	0.60
1:PA:689:GLU:O	1:PA:693:ILE:HG12	2.01	0.60
1:UA:689:GLU:O	1:UA:693:ILE:HG12	2.01	0.60
1:XA:681:GLU:OE2	1:XA:685:ARG:NH1	2.34	0.60
1:XA:768:MET:SD	1:ZA:759:LEU:HD12	2.42	0.60
1:YA:689:GLU:O	1:YA:693:ILE:HG12	2.01	0.60
1:AB:529:ILE:HD12	1:AB:583:VAL:HG11	1.82	0.60
1:EB:716:VAL:HA	1:EB:719:THR:HG22	1.82	0.60
1:FB:689:GLU:O	1:FB:693:ILE:HG12	2.01	0.60
1:GB:805:GLY:O	1:GB:808:ARG:HG2	2.01	0.60
1:HB:805:GLY:O	1:HB:808:ARG:HG2	2.01	0.60
1:JB:805:GLY:O	1:JB:808:ARG:HG2	2.02	0.60
1:KB:8:ILE:HD11	1:KB:35:TYR:HD2	1.65	0.60
1:OB:279:ARG:NH2	1:PB:299:LYS:CD	2.65	0.60
1:PB:716:VAL:HA	1:PB:719:THR:HG22	1.82	0.60
1:RB:689:GLU:O	1:RB:693:ILE:HG12	2.01	0.60
1:SB:684:ALA:HB1	1:TB:675:HIS:HB3	1.83	0.60
1:A:750:ALA:HB2	1:C:740:SER:O	2.01	0.60
1:C:8:ILE:HD11	1:C:35:TYR:HD2	1.65	0.60
1:D:274:THR:HG21	1:D:310:LEU:HG	1.83	0.60
1:D:689:GLU:O	1:D:693:ILE:HG12	2.01	0.60
1:E:274:THR:HG21	1:E:310:LEU:HG	1.83	0.60
1:G:274:THR:HG21	1:G:310:LEU:HG	1.82	0.60
1:M:274:THR:HG21	1:M:310:LEU:HG	1.82	0.60
1:M:689:GLU:O	1:M:693:ILE:HG12	2.01	0.60
1:N:529:ILE:HD12	1:N:583:VAL:HG11	1.82	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Z:474:ARG:HB2	1:Z:492:GLU:HB2	1.84	0.60
1:DA:274:THR:HG21	1:DA:310:LEU:HG	1.83	0.60
1:GA:805:GLY:O	1:GA:808:ARG:HG2	2.01	0.60
1:PA:474:ARG:HB2	1:PA:492:GLU:HB2	1.84	0.60
1:QA:64:PRO:O	1:QA:84:ARG:N	2.28	0.60
1:RA:166:THR:HG21	1:RA:212:VAL:HG11	1.84	0.60
1:BB:474:ARG:HB2	1:BB:492:GLU:HB2	1.84	0.60
1:CB:474:ARG:HB2	1:CB:492:GLU:HB2	1.84	0.60
1:EB:274:THR:HG21	1:EB:310:LEU:HG	1.83	0.60
1:FB:166:THR:HG21	1:FB:212:VAL:HG11	1.84	0.60
1:JB:716:VAL:HA	1:JB:719:THR:HG22	1.82	0.60
1:LB:593:LYS:HA	1:MB:585:SER:HA	1.83	0.60
1:MB:786:GLN:CB	1:NB:781:VAL:HG22	2.31	0.60
1:QB:474:ARG:HB2	1:QB:492:GLU:HB2	1.84	0.60
1:SB:805:GLY:O	1:SB:808:ARG:HG2	2.02	0.60
1:UB:474:ARG:HB2	1:UB:492:GLU:HB2	1.84	0.60
1:VB:474:ARG:HB2	1:VB:492:GLU:HB2	1.84	0.60
1:VB:746:LEU:HB3	1:WB:741:VAL:HG23	1.83	0.60
1:WB:716:VAL:HA	1:WB:719:THR:HG22	1.82	0.60
1:A:710:GLU:HG3	1:C:700:GLU:OE1	2.02	0.59
1:A:779:LEU:HD21	1:C:770:LEU:CA	2.32	0.59
1:C:805:GLY:O	1:C:808:ARG:HG2	2.02	0.59
1:D:805:GLY:O	1:D:808:ARG:HG2	2.02	0.59
1:E:689:GLU:O	1:E:693:ILE:HG12	2.01	0.59
1:F:274:THR:HG21	1:F:310:LEU:HG	1.83	0.59
1:H:805:GLY:O	1:H:808:ARG:HG2	2.02	0.59
1:I:274:THR:HG21	1:I:310:LEU:HG	1.83	0.59
1:L:805:GLY:O	1:L:808:ARG:HG2	2.01	0.59
1:O:529:ILE:HD12	1:O:583:VAL:HG11	1.82	0.59
1:O:805:GLY:O	1:O:808:ARG:HG2	2.02	0.59
1:R:474:ARG:HB2	1:R:492:GLU:HB2	1.84	0.59
1:S:805:GLY:O	1:S:808:ARG:HG2	2.01	0.59
1:V:474:ARG:HB2	1:V:492:GLU:HB2	1.84	0.59
1:X:805:GLY:O	1:X:808:ARG:HG2	2.02	0.59
1:Y:805:GLY:O	1:Y:808:ARG:HG2	2.01	0.59
1:Z:805:GLY:O	1:Z:808:ARG:HG2	2.02	0.59
1:IA:666:THR:CG2	1:KA:657:SER:CB	2.78	0.59
1:NA:166:THR:HG21	1:NA:212:VAL:HG11	1.84	0.59
1:QA:474:ARG:HB2	1:QA:492:GLU:HB2	1.84	0.59
1:UA:716:VAL:HA	1:UA:719:THR:HG22	1.82	0.59
1:XA:274:THR:HG21	1:XA:310:LEU:HG	1.83	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AB:274:THR:HG21	1:AB:310:LEU:HG	1.82	0.59
1:AB:474:ARG:HB2	1:AB:492:GLU:HB2	1.84	0.59
1:FB:805:GLY:O	1:FB:808:ARG:HG2	2.01	0.59
1:OB:691:GLN:OE1	1:PB:679:ARG:NH2	2.32	0.59
1:OB:735:ILE:HG22	1:PB:730:ALA:HB2	1.83	0.59
1:QB:716:VAL:HA	1:QB:719:THR:HG22	1.83	0.59
1:TB:716:VAL:HA	1:TB:719:THR:HG22	1.82	0.59
1:UB:793:LYS:HZ1	1:VB:792:ALA:CB	1.96	0.59
1:VB:166:THR:HG21	1:VB:212:VAL:HG11	1.84	0.59
1:ZB:805:GLY:O	1:ZB:808:ARG:HG2	2.01	0.59
1:A:166:THR:HG21	1:A:212:VAL:HG11	1.84	0.59
1:A:775:ALA:HB2	1:C:770:LEU:CD1	2.32	0.59
1:A:813:ALA:HB2	1:C:811:ALA:HB1	1.83	0.59
1:D:717:GLU:HG3	1:F:707:LEU:CD1	2.32	0.59
1:D:779:LEU:HD21	1:F:770:LEU:CD1	2.32	0.59
1:H:802:LEU:HD23	1:J:799:THR:HG21	1.84	0.59
1:M:166:THR:HG21	1:M:212:VAL:HG11	1.84	0.59
1:N:474:ARG:HB2	1:N:492:GLU:HB2	1.84	0.59
1:N:805:GLY:O	1:N:808:ARG:HG2	2.02	0.59
1:T:805:GLY:O	1:T:808:ARG:HG2	2.01	0.59
1:W:689:GLU:O	1:W:693:ILE:HG12	2.01	0.59
1:GA:533:ASP:OD2	1:GA:587:THR:OG1	2.17	0.59
1:HA:695:ASP:OD1	1:JA:686:GLY:HA3	2.02	0.59
1:HA:805:GLY:O	1:HA:808:ARG:HG2	2.01	0.59
1:KA:274:THR:HG21	1:KA:310:LEU:HG	1.83	0.59
1:KA:805:GLY:O	1:KA:808:ARG:HG2	2.02	0.59
1:OA:166:THR:HG21	1:OA:212:VAL:HG11	1.84	0.59
1:OA:529:ILE:HD12	1:OA:583:VAL:HG11	1.82	0.59
1:AB:640:VAL:CG1	1:OB:580:ARG:HH22	2.11	0.59
1:EB:474:ARG:HB2	1:EB:492:GLU:HB2	1.84	0.59
1:IB:474:ARG:HB2	1:IB:492:GLU:HB2	1.84	0.59
1:IB:805:GLY:O	1:IB:808:ARG:HG2	2.01	0.59
1:PB:474:ARG:HB2	1:PB:492:GLU:HB2	1.84	0.59
1:QB:805:GLY:O	1:QB:808:ARG:HG2	2.02	0.59
1:RB:595:SER:HB3	1:SB:580:ARG:HH12	1.67	0.59
1:SB:274:THR:HG21	1:SB:310:LEU:HG	1.83	0.59
1:SB:689:GLU:O	1:SB:693:ILE:HG12	2.01	0.59
1:TB:474:ARG:HB2	1:TB:492:GLU:HB2	1.84	0.59
1:TB:666:THR:CB	1:UB:660:LEU:HD13	2.29	0.59
1:WB:474:ARG:HB2	1:WB:492:GLU:HB2	1.84	0.59
1:YB:474:ARG:HB2	1:YB:492:GLU:HB2	1.84	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:670:GLU:HB2	1:F:664:ILE:HG21	1.82	0.59
1:F:700:GLU:OE2	1:F:703:ARG:NH1	2.36	0.59
1:G:794:LYS:CG	1:I:791:GLU:OE2	2.49	0.59
1:I:34:THR:HG23	1:K:23:SER:HA	1.84	0.59
1:S:681:GLU:OE2	1:S:685:ARG:NH1	2.34	0.59
1:AA:805:GLY:O	1:AA:808:ARG:HG2	2.01	0.59
1:BA:689:GLU:O	1:BA:693:ILE:HG12	2.01	0.59
1:CA:805:GLY:O	1:CA:808:ARG:HG2	2.02	0.59
1:EA:474:ARG:HB2	1:EA:492:GLU:HB2	1.84	0.59
1:IA:689:GLU:O	1:IA:693:ILE:HG12	2.01	0.59
1:KA:700:GLU:OE2	1:KA:703:ARG:NH1	2.36	0.59
1:LA:805:GLY:O	1:LA:808:ARG:HG2	2.01	0.59
1:OA:474:ARG:HB2	1:OA:492:GLU:HB2	1.84	0.59
1:CB:166:THR:HG21	1:CB:212:VAL:HG11	1.84	0.59
1:EB:768:MET:SD	1:FB:759:LEU:HD12	2.42	0.59
1:MB:782:SER:OG	1:NB:777:LEU:HD11	2.01	0.59
1:MB:805:GLY:O	1:MB:808:ARG:HG2	2.01	0.59
1:OB:474:ARG:HB2	1:OB:492:GLU:HB2	1.84	0.59
1:TB:592:HIS:HD2	1:UB:534:HIS:CE1	2.11	0.59
1:VB:700:GLU:OE2	1:VB:703:ARG:NH1	2.36	0.59
1:A:716:VAL:HA	1:A:719:THR:HG22	1.82	0.59
1:A:757:ALA:HB2	1:C:748:ALA:CB	2.32	0.59
1:B:325:VAL:CG1	1:D:353:ALA:O	2.50	0.59
1:B:797:GLU:CD	1:D:792:ALA:HB1	2.21	0.59
1:C:291:ASP:HB2	1:C:293:LYS:HE3	1.85	0.59
1:E:533:ASP:OD2	1:E:587:THR:OG1	2.17	0.59
1:L:166:THR:HG21	1:L:212:VAL:HG11	1.84	0.59
1:M:700:GLU:OE2	1:M:703:ARG:NH1	2.36	0.59
1:O:700:GLU:OE2	1:O:703:ARG:NH1	2.36	0.59
1:P:291:ASP:HB2	1:P:293:LYS:HE3	1.85	0.59
1:T:700:GLU:OE2	1:T:703:ARG:NH1	2.36	0.59
1:X:274:THR:HG21	1:X:310:LEU:HG	1.83	0.59
1:X:700:GLU:OE2	1:X:703:ARG:NH1	2.36	0.59
1:Y:474:ARG:HB2	1:Y:492:GLU:HB2	1.84	0.59
1:Z:689:GLU:O	1:Z:693:ILE:HG12	2.01	0.59
1:DA:805:GLY:O	1:DA:808:ARG:HG2	2.02	0.59
1:FA:805:GLY:O	1:FA:808:ARG:HG2	2.01	0.59
1:GA:700:GLU:OE2	1:GA:703:ARG:NH1	2.36	0.59
1:IA:706:LEU:HD21	1:KA:693:ILE:CG2	2.31	0.59
1:JA:274:THR:HG21	1:JA:310:LEU:HG	1.82	0.59
1:JA:805:GLY:O	1:JA:808:ARG:HG2	2.01	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:KA:474:ARG:HB2	1:KA:492:GLU:HB2	1.84	0.59
1:LA:700:GLU:OE2	1:LA:703:ARG:NH1	2.36	0.59
1:MA:700:GLU:OE2	1:MA:703:ARG:NH1	2.36	0.59
1:NA:716:VAL:HA	1:NA:719:THR:HG22	1.83	0.59
1:PA:522:PHE:CD2	1:RA:573:LYS:HE2	2.38	0.59
1:QA:274:THR:HG21	1:QA:310:LEU:HG	1.83	0.59
1:QA:716:VAL:HA	1:QA:719:THR:HG22	1.82	0.59
1:SA:700:GLU:OE2	1:SA:703:ARG:NH1	2.36	0.59
1:VA:700:GLU:OE2	1:VA:703:ARG:NH1	2.36	0.59
1:BB:689:GLU:O	1:BB:693:ILE:HG12	2.01	0.59
1:FB:687:ARG:HH12	1:GB:679:ARG:HD2	1.67	0.59
1:GB:166:THR:HG21	1:GB:212:VAL:HG11	1.84	0.59
1:MB:166:THR:HG21	1:MB:212:VAL:HG11	1.84	0.59
1:NB:474:ARG:HB2	1:NB:492:GLU:HB2	1.84	0.59
1:RB:700:GLU:OE2	1:RB:703:ARG:NH1	2.36	0.59
1:TB:529:ILE:HD12	1:TB:583:VAL:HG11	1.82	0.59
1:WB:805:GLY:O	1:WB:808:ARG:HG2	2.01	0.59
1:A:700:GLU:OE2	1:A:703:ARG:NH1	2.36	0.59
1:A:724:ALA:HA	1:C:715:ALA:HA	1.85	0.59
1:B:790:VAL:CG2	1:D:784:ALA:HB3	2.28	0.59
1:D:474:ARG:HB2	1:D:492:GLU:HB2	1.84	0.59
1:E:720:GLY:HA3	1:G:711:ALA:HB1	1.84	0.59
1:G:700:GLU:OE2	1:G:703:ARG:NH1	2.36	0.59
1:H:291:ASP:HB2	1:H:293:LYS:HE3	1.85	0.59
1:J:716:VAL:HA	1:J:719:THR:HG22	1.82	0.59
1:K:689:GLU:O	1:K:693:ILE:HG12	2.01	0.59
1:L:531:THR:OG1	1:L:586:VAL:O	2.21	0.59
1:P:680:LEU:HB3	1:R:675:HIS:HE1	1.67	0.59
1:P:798:MET:HE3	1:R:795:PHE:CE2	2.38	0.59
1:R:700:GLU:OE2	1:R:703:ARG:NH1	2.36	0.59
1:S:700:GLU:OE2	1:S:703:ARG:NH1	2.36	0.59
1:T:474:ARG:HB2	1:T:492:GLU:HB2	1.84	0.59
1:X:166:THR:HG21	1:X:212:VAL:HG11	1.84	0.59
1:CA:474:ARG:HB2	1:CA:492:GLU:HB2	1.84	0.59
1:EA:274:THR:HG21	1:EA:310:LEU:HG	1.83	0.59
1:FA:291:ASP:HB2	1:FA:293:LYS:HE3	1.85	0.59
1:IA:474:ARG:HB2	1:IA:492:GLU:HB2	1.84	0.59
1:JA:700:GLU:OE2	1:JA:703:ARG:NH1	2.36	0.59
1:NA:291:ASP:HB2	1:NA:293:LYS:HE3	1.85	0.59
1:QA:291:ASP:HB2	1:QA:293:LYS:HE3	1.85	0.59
1:SA:64:PRO:O	1:SA:84:ARG:N	2.28	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:TA:474:ARG:HB2	1:TA:492:GLU:HB2	1.84	0.59
1:WA:689:GLU:O	1:WA:693:ILE:HG12	2.01	0.59
1:AB:700:GLU:OE2	1:AB:703:ARG:NH1	2.36	0.59
1:CB:700:GLU:OE2	1:CB:703:ARG:NH1	2.36	0.59
1:CB:720:GLY:CA	1:DB:711:ALA:HB1	2.27	0.59
1:DB:728:SER:CB	1:EB:718:SER:HB2	2.32	0.59
1:EB:689:GLU:O	1:EB:693:ILE:HG12	2.01	0.59
1:LB:291:ASP:HB2	1:LB:293:LYS:HE3	1.85	0.59
1:LB:700:GLU:OE2	1:LB:703:ARG:NH1	2.36	0.59
1:LB:716:VAL:CB	1:MB:708:GLU:HG2	2.32	0.59
1:MB:474:ARG:HB2	1:MB:492:GLU:HB2	1.84	0.59
1:OB:279:ARG:NH2	1:PB:299:LYS:NZ	2.50	0.59
1:OB:542:ALA:HB1	1:PB:573:LYS:HD2	1.85	0.59
1:OB:700:GLU:OE2	1:OB:703:ARG:NH1	2.36	0.59
1:RB:474:ARG:HB2	1:RB:492:GLU:HB2	1.84	0.59
1:UB:531:THR:OG1	1:UB:586:VAL:O	2.21	0.59
1:AC:700:GLU:OE2	1:AC:703:ARG:NH1	2.36	0.59
1:A:770:LEU:HG	1:NB:779:LEU:CD2	2.26	0.59
1:A:776:GLN:CD	1:C:769:GLU:OE1	2.40	0.59
1:B:531:THR:OG1	1:B:586:VAL:O	2.21	0.59
1:C:700:GLU:OE2	1:C:703:ARG:NH1	2.36	0.59
1:E:700:GLU:OE2	1:E:703:ARG:NH1	2.36	0.59
1:F:689:GLU:O	1:F:693:ILE:HG12	2.01	0.59
1:F:805:GLY:O	1:F:808:ARG:HG2	2.01	0.59
1:I:700:GLU:OE2	1:I:703:ARG:NH1	2.36	0.59
1:K:166:THR:HG21	1:K:212:VAL:HG11	1.84	0.59
1:K:291:ASP:HB2	1:K:293:LYS:HE3	1.85	0.59
1:R:531:THR:OG1	1:R:586:VAL:O	2.21	0.59
1:T:531:THR:OG1	1:T:586:VAL:O	2.21	0.59
1:W:531:THR:OG1	1:W:586:VAL:O	2.21	0.59
1:AA:700:GLU:OE2	1:AA:703:ARG:NH1	2.36	0.59
1:BA:166:THR:HG21	1:BA:212:VAL:HG11	1.84	0.59
1:BA:700:GLU:OE2	1:BA:703:ARG:NH1	2.36	0.59
1:CA:166:THR:HG21	1:CA:212:VAL:HG11	1.84	0.59
1:CA:700:GLU:OE2	1:CA:703:ARG:NH1	2.36	0.59
1:JA:166:THR:HG21	1:JA:212:VAL:HG11	1.84	0.59
1:LA:689:GLU:O	1:LA:693:ILE:HG12	2.01	0.59
1:NA:805:GLY:O	1:NA:808:ARG:HG2	2.01	0.59
1:RA:17:HIS:NE2	1:RA:99:LEU:O	2.34	0.59
1:RA:274:THR:HG21	1:RA:310:LEU:HG	1.83	0.59
1:WA:291:ASP:HB2	1:WA:293:LYS:HE3	1.85	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:YA:700:GLU:OE2	1:YA:703:ARG:NH1	2.36	0.59
1:ZA:291:ASP:HB2	1:ZA:293:LYS:HE3	1.85	0.59
1:CB:227:LEU:HD23	1:CB:229:LEU:HD23	1.85	0.59
1:FB:279:ARG:HD3	1:GB:337:LEU:HB3	1.83	0.59
1:GB:474:ARG:HB2	1:GB:492:GLU:HB2	1.84	0.59
1:HB:700:GLU:OE2	1:HB:703:ARG:NH1	2.36	0.59
1:IB:689:GLU:O	1:IB:693:ILE:HG12	2.01	0.59
1:IB:700:GLU:OE2	1:IB:703:ARG:NH1	2.36	0.59
1:LB:592:HIS:O	1:MB:584:ALA:O	2.20	0.59
1:NB:166:THR:HG21	1:NB:212:VAL:HG11	1.84	0.59
1:NB:700:GLU:OE2	1:NB:703:ARG:NH1	2.36	0.59
1:QB:531:THR:OG1	1:QB:586:VAL:O	2.21	0.59
1:SB:166:THR:HG21	1:SB:212:VAL:HG11	1.84	0.59
1:TB:700:GLU:OE2	1:TB:703:ARG:NH1	2.36	0.59
1:YB:291:ASP:HB2	1:YB:293:LYS:HE3	1.85	0.59
1:ZB:166:THR:HG21	1:ZB:212:VAL:HG11	1.84	0.59
1:A:761:ARG:CG	1:C:751:LEU:O	2.50	0.59
1:C:689:GLU:O	1:C:693:ILE:HG12	2.01	0.59
1:C:790:VAL:CG2	1:E:781:VAL:CG1	2.80	0.59
1:C:798:MET:SD	1:E:792:ALA:HA	2.43	0.59
1:D:52:THR:CA	1:F:86:ALA:CB	2.80	0.59
1:D:167:VAL:CG2	1:F:192:THR:CA	2.77	0.59
1:E:166:THR:HG21	1:E:212:VAL:HG11	1.84	0.59
1:E:783:LYS:HA	1:G:777:LEU:HG	1.84	0.59
1:H:533:ASP:OD2	1:H:587:THR:OG1	2.17	0.59
1:H:689:GLU:O	1:H:693:ILE:HG12	2.01	0.59
1:H:813:ALA:HB2	1:J:811:ALA:HB1	1.83	0.59
1:J:166:THR:HG21	1:J:212:VAL:HG11	1.84	0.59
1:K:531:THR:OG1	1:K:586:VAL:O	2.21	0.59
1:N:291:ASP:HB2	1:N:293:LYS:HE3	1.85	0.59
1:Q:166:THR:HG21	1:Q:212:VAL:HG11	1.84	0.59
1:Y:274:THR:HG21	1:Y:310:LEU:HG	1.83	0.59
1:FA:227:LEU:HD23	1:FA:229:LEU:HD23	1.85	0.59
1:JA:64:PRO:O	1:JA:84:ARG:N	2.28	0.59
1:LA:227:LEU:HD23	1:LA:229:LEU:HD23	1.85	0.59
1:NA:689:GLU:O	1:NA:693:ILE:HG12	2.01	0.59
1:QA:700:GLU:OE2	1:QA:703:ARG:NH1	2.36	0.59
1:SA:166:THR:HG21	1:SA:212:VAL:HG11	1.84	0.59
1:TA:291:ASP:HB2	1:TA:293:LYS:HE3	1.85	0.59
1:TA:533:ASP:OD2	1:TA:587:THR:OG1	2.17	0.59
1:TA:700:GLU:OE2	1:TA:703:ARG:NH1	2.36	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:TA:805:GLY:O	1:TA:808:ARG:HG2	2.02	0.59
1:UA:227:LEU:HD23	1:UA:229:LEU:HD23	1.85	0.59
1:WA:805:GLY:O	1:WA:808:ARG:HG2	2.01	0.59
1:ZA:533:ASP:OD2	1:ZA:587:THR:OG1	2.17	0.59
1:AB:166:THR:HG21	1:AB:212:VAL:HG11	1.84	0.59
1:BB:706:LEU:CD2	1:CB:693:ILE:HD12	2.33	0.59
1:CB:805:GLY:O	1:CB:808:ARG:HG2	2.02	0.59
1:DB:474:ARG:HB2	1:DB:492:GLU:HB2	1.84	0.59
1:DB:700:GLU:OE2	1:DB:703:ARG:NH1	2.36	0.59
1:EB:166:THR:HG21	1:EB:212:VAL:HG11	1.84	0.59
1:EB:291:ASP:HB2	1:EB:293:LYS:HE3	1.85	0.59
1:FB:542:ALA:CB	1:GB:573:LYS:HZ2	2.15	0.59
1:KB:700:GLU:OE2	1:KB:703:ARG:NH1	2.36	0.59
1:MB:689:GLU:O	1:MB:693:ILE:HG12	2.01	0.59
1:MB:786:GLN:OE1	1:NB:781:VAL:HG21	2.01	0.59
1:QB:291:ASP:HB2	1:QB:293:LYS:HE3	1.85	0.59
1:SB:700:GLU:OE2	1:SB:703:ARG:NH1	2.36	0.59
1:TB:592:HIS:CE1	1:UB:534:HIS:HD2	2.17	0.59
1:UB:227:LEU:HD23	1:UB:229:LEU:HD23	1.85	0.59
1:VB:699:ALA:HA	1:WB:693:ILE:HG13	1.84	0.59
1:C:801:ALA:HB1	1:E:796:LYS:CE	2.32	0.59
1:D:700:GLU:OE2	1:D:703:ARG:NH1	2.36	0.59
1:I:291:ASP:HB2	1:I:293:LYS:HE3	1.85	0.59
1:M:291:ASP:HB2	1:M:293:LYS:HE3	1.85	0.59
1:S:227:LEU:HD23	1:S:229:LEU:HD23	1.85	0.59
1:V:531:THR:OG1	1:V:586:VAL:O	2.21	0.59
1:W:166:THR:HG21	1:W:212:VAL:HG11	1.84	0.59
1:KA:291:ASP:HB2	1:KA:293:LYS:HE3	1.85	0.59
1:LA:64:PRO:O	1:LA:84:ARG:N	2.28	0.59
1:NA:700:GLU:OE2	1:NA:703:ARG:NH1	2.36	0.59
1:SA:291:ASP:HB2	1:SA:293:LYS:HE3	1.85	0.59
1:SA:474:ARG:HB2	1:SA:492:GLU:HB2	1.84	0.59
1:UA:531:THR:OG1	1:UA:586:VAL:O	2.21	0.59
1:VA:531:THR:OG1	1:VA:586:VAL:O	2.21	0.59
1:WA:700:GLU:OE2	1:WA:703:ARG:NH1	2.36	0.59
1:XA:166:THR:HG21	1:XA:212:VAL:HG11	1.84	0.59
1:XA:700:GLU:OE2	1:XA:703:ARG:NH1	2.36	0.59
1:XA:757:ALA:CB	1:ZA:748:ALA:HB1	2.31	0.59
1:XA:805:GLY:O	1:XA:808:ARG:HG2	2.01	0.59
1:YA:474:ARG:HB2	1:YA:492:GLU:HB2	1.84	0.59
1:ZA:274:THR:HG21	1:ZA:310:LEU:HG	1.83	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:DB:166:THR:HG21	1:DB:212:VAL:HG11	1.84	0.59
1:EB:700:GLU:OE2	1:EB:703:ARG:NH1	2.36	0.59
1:FB:700:GLU:OE2	1:FB:703:ARG:NH1	2.36	0.59
1:GB:227:LEU:HD23	1:GB:229:LEU:HD23	1.85	0.59
1:MB:757:ALA:HB1	1:NB:748:ALA:O	2.03	0.59
1:OB:592:HIS:NE2	1:PB:531:THR:O	2.36	0.59
1:PB:700:GLU:OE2	1:PB:703:ARG:NH1	2.36	0.59
1:UB:757:ALA:CB	1:VB:751:LEU:C	2.70	0.59
1:WB:700:GLU:OE2	1:WB:703:ARG:NH1	2.36	0.59
1:XB:700:GLU:OE2	1:XB:703:ARG:NH1	2.36	0.59
1:YB:700:GLU:OE2	1:YB:703:ARG:NH1	2.36	0.59
1:YB:805:GLY:O	1:YB:808:ARG:HG2	2.01	0.59
1:ZB:291:ASP:HB2	1:ZB:293:LYS:HE3	1.85	0.59
1:ZB:691:GLN:OE1	1:AC:679:ARG:CZ	2.51	0.59
1:ZB:731:GLU:CG	1:AC:722:ALA:HB3	2.33	0.59
1:ZB:746:LEU:HD11	1:AC:737:GLY:HA3	1.76	0.59
1:H:700:GLU:OE2	1:H:703:ARG:NH1	2.36	0.59
1:I:531:THR:OG1	1:I:586:VAL:O	2.21	0.59
1:J:531:THR:OG1	1:J:586:VAL:O	2.21	0.59
1:K:700:GLU:OE2	1:K:703:ARG:NH1	2.36	0.59
1:L:56:ARG:NH1	1:N:128:ASP:CB	2.66	0.59
1:N:171:ASN:ND2	1:P:232:ARG:O	2.36	0.59
1:P:166:THR:HG21	1:P:212:VAL:HG11	1.84	0.59
1:P:592:HIS:CD2	1:R:534:HIS:CD2	2.91	0.59
1:V:64:PRO:O	1:V:84:ARG:N	2.28	0.59
1:AA:227:LEU:HD23	1:AA:229:LEU:HD23	1.85	0.59
1:AA:531:THR:OG1	1:AA:586:VAL:O	2.21	0.59
1:CA:291:ASP:HB2	1:CA:293:LYS:HE3	1.85	0.59
1:DA:291:ASP:HB2	1:DA:293:LYS:HE3	1.85	0.59
1:DA:700:GLU:OE2	1:DA:703:ARG:NH1	2.36	0.59
1:EA:291:ASP:HB2	1:EA:293:LYS:HE3	1.85	0.59
1:HA:700:GLU:OE2	1:HA:703:ARG:NH1	2.36	0.59
1:IA:148:PRO:CB	1:KA:138:MET:CE	2.70	0.59
1:IA:166:THR:HG21	1:IA:212:VAL:HG11	1.84	0.59
1:IA:227:LEU:HD23	1:IA:229:LEU:HD23	1.85	0.59
1:LA:533:ASP:OD2	1:LA:587:THR:OG1	2.17	0.59
1:LA:662:ILE:O	1:LA:666:THR:HG23	2.03	0.59
1:PA:465:ASN:ND2	1:RA:563:SER:O	2.36	0.59
1:RA:474:ARG:HB2	1:RA:492:GLU:HB2	1.84	0.59
1:RA:531:THR:OG1	1:RA:586:VAL:O	2.21	0.59
1:TA:166:THR:HG21	1:TA:212:VAL:HG11	1.84	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:XA:531:THR:OG1	1:XA:586:VAL:O	2.21	0.59
1:BB:17:HIS:NE2	1:BB:99:LEU:O	2.33	0.59
1:BB:166:THR:HG21	1:BB:212:VAL:HG11	1.84	0.59
1:DB:227:LEU:HD23	1:DB:229:LEU:HD23	1.85	0.59
1:DB:757:ALA:HB3	1:EB:748:ALA:CB	2.32	0.59
1:VB:531:THR:OG1	1:VB:586:VAL:O	2.21	0.59
1:WB:364:GLU:HB3	1:XB:353:ALA:CB	2.32	0.59
1:WB:531:THR:OG1	1:WB:586:VAL:O	2.21	0.59
1:YB:689:GLU:O	1:YB:693:ILE:HG12	2.01	0.59
1:B:227:LEU:HD23	1:B:229:LEU:HD23	1.85	0.59
1:D:721:ASN:HA	1:F:711:ALA:CB	2.27	0.59
1:F:227:LEU:HD23	1:F:229:LEU:HD23	1.85	0.59
1:G:779:LEU:HD13	1:I:773:ALA:HB3	1.84	0.59
1:H:227:LEU:HD23	1:H:229:LEU:HD23	1.85	0.59
1:O:64:PRO:O	1:O:84:ARG:N	2.28	0.59
1:P:700:GLU:OE2	1:P:703:ARG:NH1	2.36	0.59
1:CA:227:LEU:HD23	1:CA:229:LEU:HD23	1.85	0.59
1:CA:531:THR:OG1	1:CA:586:VAL:O	2.21	0.59
1:EA:700:GLU:OE2	1:EA:703:ARG:NH1	2.36	0.59
1:FA:474:ARG:HB2	1:FA:492:GLU:HB2	1.84	0.59
1:MA:474:ARG:HB2	1:MA:492:GLU:HB2	1.84	0.59
1:NA:227:LEU:HD23	1:NA:229:LEU:HD23	1.85	0.59
1:OA:700:GLU:OE2	1:OA:703:ARG:NH1	2.36	0.59
1:SA:531:THR:OG1	1:SA:586:VAL:O	2.21	0.59
1:TA:673:ALA:HB1	1:VA:664:ILE:HB	1.85	0.59
1:XA:702:ALA:HB3	1:ZA:693:ILE:HG21	1.84	0.59
1:YA:166:THR:HG21	1:YA:212:VAL:HG11	1.84	0.59
1:BB:531:THR:OG1	1:BB:586:VAL:O	2.21	0.59
1:BB:700:GLU:OE2	1:BB:703:ARG:NH1	2.36	0.59
1:CB:757:ALA:CB	1:DB:748:ALA:HB1	2.33	0.59
1:KB:474:ARG:HB2	1:KB:492:GLU:HB2	1.84	0.59
1:NB:227:LEU:HD23	1:NB:229:LEU:HD23	1.85	0.59
1:PB:291:ASP:HB2	1:PB:293:LYS:HE3	1.85	0.59
1:RB:662:ILE:O	1:RB:666:THR:HG23	2.03	0.59
1:XB:227:LEU:HD23	1:XB:229:LEU:HD23	1.85	0.59
1:ZB:700:GLU:OE2	1:ZB:703:ARG:NH1	2.36	0.59
1:A:486:LEU:HD22	1:C:473:TYR:HB3	1.85	0.58
1:A:764:LYS:HZ2	1:C:756:GLU:CG	2.16	0.58
1:C:728:SER:HB3	1:E:718:SER:C	2.24	0.58
1:E:474:ARG:HB2	1:E:492:GLU:HB2	1.84	0.58
1:L:64:PRO:O	1:L:84:ARG:N	2.28	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Q:227:LEU:HD23	1:Q:229:LEU:HD23	1.85	0.58
1:Q:700:GLU:OE2	1:Q:703:ARG:NH1	2.36	0.58
1:W:474:ARG:HB2	1:W:492:GLU:HB2	1.84	0.58
1:X:662:ILE:O	1:X:666:THR:HG23	2.03	0.58
1:DA:662:ILE:O	1:DA:666:THR:HG23	2.03	0.58
1:HA:291:ASP:HB2	1:HA:293:LYS:HE3	1.85	0.58
1:IA:700:GLU:OE2	1:IA:703:ARG:NH1	2.36	0.58
1:KA:662:ILE:O	1:KA:666:THR:HG23	2.03	0.58
1:PA:166:THR:HG21	1:PA:212:VAL:HG11	1.84	0.58
1:PA:227:LEU:HD23	1:PA:229:LEU:HD23	1.85	0.58
1:PA:700:GLU:OE2	1:PA:703:ARG:NH1	2.36	0.58
1:TA:531:THR:OG1	1:TA:586:VAL:O	2.21	0.58
1:WA:227:LEU:HD23	1:WA:229:LEU:HD23	1.85	0.58
1:ZA:531:THR:OG1	1:ZA:586:VAL:O	2.21	0.58
1:CB:716:VAL:HG21	1:DB:708:GLU:HG2	1.84	0.58
1:DB:291:ASP:HB2	1:DB:293:LYS:HE3	1.85	0.58
1:DB:731:GLU:HB2	1:EB:719:THR:OG1	2.02	0.58
1:FB:662:ILE:O	1:FB:666:THR:HG23	2.03	0.58
1:HB:227:LEU:HD23	1:HB:229:LEU:HD23	1.85	0.58
1:IB:166:THR:HG21	1:IB:212:VAL:HG11	1.84	0.58
1:IB:662:ILE:O	1:IB:666:THR:HG23	2.03	0.58
1:JB:166:THR:HG21	1:JB:212:VAL:HG11	1.84	0.58
1:KB:227:LEU:HD23	1:KB:229:LEU:HD23	1.85	0.58
1:KB:662:ILE:O	1:KB:666:THR:HG23	2.04	0.58
1:NB:531:THR:OG1	1:NB:586:VAL:O	2.21	0.58
1:PB:531:THR:OG1	1:PB:586:VAL:O	2.21	0.58
1:RB:64:PRO:O	1:RB:84:ARG:N	2.28	0.58
1:RB:531:THR:OG1	1:RB:586:VAL:O	2.21	0.58
1:UB:700:GLU:OE2	1:UB:703:ARG:NH1	2.36	0.58
1:UB:805:GLY:O	1:UB:808:ARG:HG2	2.02	0.58
1:XB:291:ASP:HB2	1:XB:293:LYS:HE3	1.85	0.58
1:XB:689:GLU:O	1:XB:693:ILE:HG12	2.01	0.58
1:ZB:731:GLU:HG2	1:AC:719:THR:O	2.03	0.58
1:AC:291:ASP:HB2	1:AC:293:LYS:HE3	1.85	0.58
1:A:227:LEU:HD23	1:A:229:LEU:HD23	1.85	0.58
1:A:474:ARG:HB2	1:A:492:GLU:HB2	1.84	0.58
1:A:531:THR:OG1	1:A:586:VAL:O	2.21	0.58
1:B:166:THR:HG21	1:B:212:VAL:HG11	1.84	0.58
1:B:474:ARG:HB2	1:B:492:GLU:HB2	1.84	0.58
1:B:693:ILE:CG2	1:AC:706:LEU:CD2	2.74	0.58
1:B:700:GLU:OE2	1:B:703:ARG:NH1	2.36	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:748:ALA:HB1	1:AC:757:ALA:HB1	1.84	0.58
1:C:772:TYR:CD1	1:E:766:ARG:HB3	2.30	0.58
1:D:56:ARG:CB	1:F:128:ASP:O	2.42	0.58
1:D:166:THR:HG21	1:D:212:VAL:HG11	1.84	0.58
1:D:325:VAL:HG13	1:F:353:ALA:CA	2.33	0.58
1:F:662:ILE:O	1:F:666:THR:HG23	2.03	0.58
1:H:531:THR:OG1	1:H:586:VAL:O	2.21	0.58
1:L:768:MET:HE3	1:N:763:LYS:CG	2.32	0.58
1:P:531:THR:OG1	1:P:586:VAL:O	2.21	0.58
1:R:673:ALA:CB	1:T:664:ILE:HB	2.33	0.58
1:W:291:ASP:HB2	1:W:293:LYS:HE3	1.85	0.58
1:X:227:LEU:HD23	1:X:229:LEU:HD23	1.85	0.58
1:EA:662:ILE:O	1:EA:666:THR:HG23	2.03	0.58
1:HA:166:THR:HG21	1:HA:212:VAL:HG11	1.84	0.58
1:IA:662:ILE:HD12	1:KA:654:LEU:HG	1.84	0.58
1:JA:662:ILE:O	1:JA:666:THR:HG23	2.04	0.58
1:NA:64:PRO:O	1:NA:84:ARG:N	2.28	0.58
1:RA:291:ASP:HB2	1:RA:293:LYS:HE3	1.85	0.58
1:UA:166:THR:HG21	1:UA:212:VAL:HG11	1.84	0.58
1:UA:700:GLU:OE2	1:UA:703:ARG:NH1	2.36	0.58
1:WA:531:THR:OG1	1:WA:586:VAL:O	2.21	0.58
1:XA:474:ARG:HB2	1:XA:492:GLU:HB2	1.84	0.58
1:GB:700:GLU:OE2	1:GB:703:ARG:NH1	2.36	0.58
1:JB:227:LEU:HD23	1:JB:229:LEU:HD23	1.85	0.58
1:KB:291:ASP:HB2	1:KB:293:LYS:HE3	1.85	0.58
1:LB:680:LEU:HD13	1:MB:672:ALA:CB	2.32	0.58
1:LB:681:GLU:HB2	1:MB:675:HIS:CE1	2.37	0.58
1:MB:227:LEU:HD23	1:MB:229:LEU:HD23	1.85	0.58
1:OB:227:LEU:HD23	1:OB:229:LEU:HD23	1.85	0.58
1:PB:533:ASP:OD2	1:PB:587:THR:OG1	2.17	0.58
1:QB:166:THR:HG21	1:QB:212:VAL:HG11	1.84	0.58
1:QB:700:GLU:OE2	1:QB:703:ARG:NH1	2.36	0.58
1:A:715:ALA:HA	1:NB:724:ALA:HA	1.84	0.58
1:A:732:ALA:HA	1:C:726:ALA:HB3	1.78	0.58
1:D:57:HIS:CE1	1:F:127:LEU:HB3	2.38	0.58
1:D:531:THR:OG1	1:D:586:VAL:O	2.21	0.58
1:F:291:ASP:HB2	1:F:293:LYS:HE3	1.85	0.58
1:P:662:ILE:O	1:P:666:THR:HG23	2.03	0.58
1:S:531:THR:OG1	1:S:586:VAL:O	2.21	0.58
1:S:706:LEU:HD21	1:V:693:ILE:HG23	1.85	0.58
1:W:533:ASP:OD2	1:W:587:THR:OG1	2.17	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:W:700:GLU:OE2	1:W:703:ARG:NH1	2.36	0.58
1:Z:700:GLU:OE2	1:Z:703:ARG:NH1	2.36	0.58
1:EA:166:THR:HG21	1:EA:212:VAL:HG11	1.84	0.58
1:FA:700:GLU:OE2	1:FA:703:ARG:NH1	2.36	0.58
1:NA:531:THR:OG1	1:NA:586:VAL:O	2.21	0.58
1:SA:662:ILE:O	1:SA:666:THR:HG23	2.04	0.58
1:ZA:474:ARG:HB2	1:ZA:492:GLU:HB2	1.84	0.58
1:AB:662:ILE:O	1:AB:666:THR:HG23	2.03	0.58
1:BB:662:ILE:O	1:BB:666:THR:HG23	2.03	0.58
1:BB:731:GLU:HG2	1:CB:719:THR:HG1	1.62	0.58
1:CB:662:ILE:O	1:CB:666:THR:HG23	2.03	0.58
1:DB:531:THR:OG1	1:DB:586:VAL:O	2.21	0.58
1:DB:533:ASP:OD2	1:DB:587:THR:OG1	2.17	0.58
1:DB:706:LEU:HD21	1:EB:693:ILE:C	2.23	0.58
1:FB:325:VAL:HG13	1:GB:354:GLY:HA3	1.85	0.58
1:FB:592:HIS:CD2	1:GB:584:ALA:CA	2.86	0.58
1:JB:291:ASP:HB2	1:JB:293:LYS:HE3	1.85	0.58
1:MB:700:GLU:OE2	1:MB:703:ARG:NH1	2.36	0.58
1:OB:662:ILE:O	1:OB:666:THR:HG23	2.03	0.58
1:OB:746:LEU:HD22	1:PB:741:VAL:HG22	1.78	0.58
1:UB:662:ILE:O	1:UB:666:THR:HG23	2.03	0.58
1:UB:735:ILE:CG2	1:VB:726:ALA:O	2.48	0.58
1:XB:531:THR:OG1	1:XB:586:VAL:O	2.21	0.58
1:AC:227:LEU:HD23	1:AC:229:LEU:HD23	1.85	0.58
1:AC:474:ARG:HB2	1:AC:492:GLU:HB2	1.84	0.58
1:B:291:ASP:HB2	1:B:293:LYS:HE3	1.85	0.58
1:D:382:LEU:HD21	1:D:388:ILE:HG23	1.86	0.58
1:D:706:LEU:HD21	1:F:697:SER:OG	2.02	0.58
1:E:385:ASN:ND2	1:G:476:LYS:HE2	2.16	0.58
1:E:662:ILE:O	1:E:666:THR:HG23	2.04	0.58
1:H:774:ARG:O	1:H:777:LEU:HB3	2.04	0.58
1:I:39:ASP:OD1	1:VB:39:ASP:CG	2.41	0.58
1:J:227:LEU:HD23	1:J:229:LEU:HD23	1.85	0.58
1:K:227:LEU:HD23	1:K:229:LEU:HD23	1.85	0.58
1:K:474:ARG:HB2	1:K:492:GLU:HB2	1.84	0.58
1:M:531:THR:OG1	1:M:586:VAL:O	2.21	0.58
1:M:662:ILE:O	1:M:666:THR:HG23	2.03	0.58
1:P:474:ARG:HB2	1:P:492:GLU:HB2	1.84	0.58
1:Q:474:ARG:HB2	1:Q:492:GLU:HB2	1.84	0.58
1:Q:662:ILE:O	1:Q:666:THR:HG23	2.03	0.58
1:R:662:ILE:O	1:R:666:THR:HG23	2.03	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:S:662:ILE:O	1:S:666:THR:HG23	2.03	0.58
1:T:166:THR:HG21	1:T:212:VAL:HG11	1.84	0.58
1:X:531:THR:OG1	1:X:586:VAL:O	2.21	0.58
1:Y:166:THR:HG21	1:Y:212:VAL:HG11	1.84	0.58
1:Y:662:ILE:O	1:Y:666:THR:HG23	2.03	0.58
1:AA:166:THR:HG21	1:AA:212:VAL:HG11	1.84	0.58
1:IA:531:THR:OG1	1:IA:586:VAL:O	2.21	0.58
1:QA:662:ILE:O	1:QA:666:THR:HG23	2.03	0.58
1:RA:700:GLU:OE2	1:RA:703:ARG:NH1	2.36	0.58
1:SA:774:ARG:O	1:SA:777:LEU:HB3	2.04	0.58
1:YA:17:HIS:NE2	1:YA:99:LEU:O	2.33	0.58
1:BB:227:LEU:HD23	1:BB:229:LEU:HD23	1.85	0.58
1:FB:688:LEU:HD12	1:GB:679:ARG:HH12	1.69	0.58
1:HB:291:ASP:HB2	1:HB:293:LYS:HE3	1.85	0.58
1:JB:700:GLU:OE2	1:JB:703:ARG:NH1	2.36	0.58
1:KB:531:THR:OG1	1:KB:586:VAL:O	2.21	0.58
1:OB:695:ASP:HB3	1:PB:686:GLY:HA2	1.86	0.58
1:QB:662:ILE:O	1:QB:666:THR:HG23	2.04	0.58
1:RB:227:LEU:HD23	1:RB:229:LEU:HD23	1.85	0.58
1:UB:291:ASP:HB2	1:UB:293:LYS:HE3	1.85	0.58
1:UB:805:GLY:C	1:VB:808:ARG:HH11	2.03	0.58
1:VB:227:LEU:HD23	1:VB:229:LEU:HD23	1.85	0.58
1:YB:774:ARG:O	1:YB:777:LEU:HB3	2.04	0.58
1:AC:662:ILE:O	1:AC:666:THR:HG23	2.04	0.58
1:B:774:ARG:O	1:B:777:LEU:HB3	2.04	0.58
1:C:774:ARG:O	1:C:777:LEU:HB3	2.04	0.58
1:D:7:ILE:HG12	1:F:22:ASN:O	2.04	0.58
1:H:17:HIS:NE2	1:H:99:LEU:O	2.34	0.58
1:H:662:ILE:O	1:H:666:THR:HG23	2.03	0.58
1:I:227:LEU:HD23	1:I:229:LEU:HD23	1.85	0.58
1:I:662:ILE:O	1:I:666:THR:HG23	2.04	0.58
1:K:662:ILE:O	1:K:666:THR:HG23	2.03	0.58
1:M:382:LEU:HD21	1:M:388:ILE:HG23	1.86	0.58
1:N:531:THR:OG1	1:N:586:VAL:O	2.21	0.58
1:O:291:ASP:HB2	1:O:293:LYS:HE3	1.85	0.58
1:T:291:ASP:HB2	1:T:293:LYS:HE3	1.85	0.58
1:W:774:ARG:O	1:W:777:LEU:HB3	2.04	0.58
1:Y:531:THR:OG1	1:Y:586:VAL:O	2.21	0.58
1:Z:227:LEU:HD23	1:Z:229:LEU:HD23	1.85	0.58
1:AA:662:ILE:O	1:AA:666:THR:HG23	2.03	0.58
1:CA:533:ASP:OD2	1:CA:587:THR:OG1	2.17	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:EA:774:ARG:O	1:EA:777:LEU:HB3	2.04	0.58
1:FA:531:THR:OG1	1:FA:586:VAL:O	2.21	0.58
1:GA:662:ILE:O	1:GA:666:THR:HG23	2.03	0.58
1:GA:774:ARG:O	1:GA:777:LEU:HB3	2.04	0.58
1:HA:531:THR:OG1	1:HA:586:VAL:O	2.21	0.58
1:IA:673:ALA:HB3	1:KA:664:ILE:HD12	1.83	0.58
1:KA:531:THR:OG1	1:KA:586:VAL:O	2.21	0.58
1:NA:662:ILE:O	1:NA:666:THR:HG23	2.03	0.58
1:OA:64:PRO:O	1:OA:84:ARG:N	2.28	0.58
1:PA:382:LEU:HD21	1:PA:388:ILE:HG23	1.86	0.58
1:PA:531:THR:OG1	1:PA:586:VAL:O	2.21	0.58
1:QA:227:LEU:HD23	1:QA:229:LEU:HD23	1.85	0.58
1:YA:774:ARG:O	1:YA:777:LEU:HB3	2.04	0.58
1:ZA:227:LEU:HD23	1:ZA:229:LEU:HD23	1.85	0.58
1:ZA:700:GLU:OE2	1:ZA:703:ARG:NH1	2.36	0.58
1:CB:531:THR:OG1	1:CB:586:VAL:O	2.21	0.58
1:FB:724:ALA:HB2	1:GB:715:ALA:HB2	1.85	0.58
1:HB:474:ARG:HB2	1:HB:492:GLU:HB2	1.84	0.58
1:IB:291:ASP:HB2	1:IB:293:LYS:HE3	1.85	0.58
1:LB:474:ARG:HB2	1:LB:492:GLU:HB2	1.84	0.58
1:MB:742:LEU:HB3	1:NB:734:ARG:HE	1.67	0.58
1:OB:118:ASN:HD21	1:PB:180:LYS:CA	2.16	0.58
1:OB:291:ASP:HB2	1:OB:293:LYS:HE3	1.85	0.58
1:OB:774:ARG:O	1:OB:777:LEU:HB3	2.04	0.58
1:RB:291:ASP:HB2	1:RB:293:LYS:HE3	1.85	0.58
1:WB:774:ARG:O	1:WB:777:LEU:HB3	2.04	0.58
1:XB:364:GLU:HB3	1:YB:353:ALA:CB	2.32	0.58
1:XB:474:ARG:HB2	1:XB:492:GLU:HB2	1.84	0.58
1:YB:662:ILE:O	1:YB:666:THR:HG23	2.03	0.58
1:AC:531:THR:OG1	1:AC:586:VAL:O	2.21	0.58
1:A:693:ILE:HD11	1:NB:703:ARG:NH2	2.19	0.58
1:A:712:MET:CE	1:C:704:LYS:HG3	2.30	0.58
1:C:474:ARG:HB2	1:C:492:GLU:HB2	1.84	0.58
1:D:706:LEU:HD11	1:F:697:SER:OG	2.03	0.58
1:E:291:ASP:HB2	1:E:293:LYS:HE3	1.85	0.58
1:E:382:LEU:HD21	1:E:388:ILE:HG23	1.86	0.58
1:G:662:ILE:O	1:G:666:THR:HG23	2.03	0.58
1:N:662:ILE:O	1:N:666:THR:HG23	2.03	0.58
1:R:227:LEU:HD23	1:R:229:LEU:HD23	1.85	0.58
1:T:774:ARG:O	1:T:777:LEU:HB3	2.04	0.58
1:V:700:GLU:OE2	1:V:703:ARG:NH1	2.36	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:BA:291:ASP:HB2	1:BA:293:LYS:HE3	1.85	0.58
1:DA:166:THR:HG21	1:DA:212:VAL:HG11	1.84	0.58
1:DA:227:LEU:HD23	1:DA:229:LEU:HD23	1.85	0.58
1:DA:382:LEU:HD21	1:DA:388:ILE:HG23	1.86	0.58
1:DA:474:ARG:HB2	1:DA:492:GLU:HB2	1.84	0.58
1:GA:227:LEU:HD23	1:GA:229:LEU:HD23	1.85	0.58
1:GA:382:LEU:HD21	1:GA:388:ILE:HG23	1.86	0.58
1:JA:382:LEU:HD21	1:JA:388:ILE:HG23	1.86	0.58
1:MA:382:LEU:HD21	1:MA:388:ILE:HG23	1.86	0.58
1:NA:774:ARG:O	1:NA:777:LEU:HB3	2.04	0.58
1:XA:382:LEU:HD21	1:XA:388:ILE:HG23	1.86	0.58
1:AB:291:ASP:HB2	1:AB:293:LYS:HE3	1.85	0.58
1:EB:774:ARG:O	1:EB:777:LEU:HB3	2.04	0.58
1:FB:382:LEU:HD21	1:FB:388:ILE:HG23	1.86	0.58
1:HB:531:THR:OG1	1:HB:586:VAL:O	2.21	0.58
1:JB:531:THR:OG1	1:JB:586:VAL:O	2.21	0.58
1:LB:279:ARG:HH12	1:MB:299:LYS:HZ2	1.50	0.58
1:MB:531:THR:OG1	1:MB:586:VAL:O	2.21	0.58
1:OB:279:ARG:HH22	1:PB:299:LYS:NZ	2.02	0.58
1:PB:662:ILE:O	1:PB:666:THR:HG23	2.04	0.58
1:WB:166:THR:HG21	1:WB:212:VAL:HG11	1.84	0.58
1:A:693:ILE:O	1:NB:706:LEU:HD21	2.02	0.58
1:A:774:ARG:O	1:A:777:LEU:HB3	2.04	0.58
1:B:662:ILE:O	1:B:666:THR:HG23	2.04	0.58
1:D:9:ARG:CZ	1:F:24:ASN:ND2	2.63	0.58
1:D:17:HIS:NE2	1:D:99:LEU:O	2.34	0.58
1:D:662:ILE:CD1	1:F:654:LEU:CD2	2.75	0.58
1:G:774:ARG:O	1:G:777:LEU:HB3	2.04	0.58
1:I:774:ARG:O	1:I:777:LEU:HB3	2.04	0.58
1:J:291:ASP:HB2	1:J:293:LYS:HE3	1.85	0.58
1:L:171:ASN:ND2	1:N:232:ARG:O	2.37	0.58
1:L:279:ARG:HD3	1:N:337:LEU:HD13	1.84	0.58
1:R:382:LEU:HD21	1:R:388:ILE:HG23	1.86	0.58
1:R:687:ARG:HH12	1:T:679:ARG:NH1	2.01	0.58
1:S:774:ARG:O	1:S:777:LEU:HB3	2.04	0.58
1:T:64:PRO:O	1:T:84:ARG:N	2.28	0.58
1:V:382:LEU:HD21	1:V:388:ILE:HG23	1.86	0.58
1:Z:338:GLN:HB3	1:Z:370:LYS:HB3	1.86	0.58
1:BA:504:ARG:NH2	1:BA:524:THR:O	2.37	0.58
1:EA:382:LEU:HD21	1:EA:388:ILE:HG23	1.86	0.58
1:GA:531:THR:OG1	1:GA:586:VAL:O	2.21	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:IA:169:LYS:NZ	1:KA:194:GLU:CA	2.66	0.58
1:IA:522:PHE:HE2	1:KA:566:ASP:HB3	1.67	0.58
1:KA:227:LEU:HD23	1:KA:229:LEU:HD23	1.85	0.58
1:MA:774:ARG:O	1:MA:777:LEU:HB3	2.04	0.58
1:VA:662:ILE:O	1:VA:666:THR:HG23	2.03	0.58
1:YA:382:LEU:HD21	1:YA:388:ILE:HG23	1.86	0.58
1:AB:382:LEU:HD21	1:AB:388:ILE:HG23	1.86	0.58
1:DB:504:ARG:NH2	1:DB:524:THR:O	2.37	0.58
1:GB:291:ASP:HB2	1:GB:293:LYS:HE3	1.85	0.58
1:HB:338:GLN:HB3	1:HB:370:LYS:HB3	1.86	0.58
1:IB:531:THR:OG1	1:IB:586:VAL:O	2.21	0.58
1:LB:774:ARG:O	1:LB:777:LEU:HB3	2.04	0.58
1:OB:277:GLY:HA2	1:PB:297:GLY:C	2.23	0.58
1:OB:544:ASN:CG	1:PB:573:LYS:HZ3	2.07	0.58
1:OB:735:ILE:CG2	1:PB:730:ALA:HB2	2.34	0.58
1:QB:227:LEU:HD23	1:QB:229:LEU:HD23	1.85	0.58
1:RB:680:LEU:HB3	1:SB:675:HIS:CE1	2.39	0.58
1:SB:662:ILE:O	1:SB:666:THR:HG23	2.03	0.58
1:UB:738:GLU:CD	1:VB:734:ARG:HH12	2.06	0.58
1:UB:774:ARG:O	1:UB:777:LEU:HB3	2.04	0.58
1:VB:533:ASP:OD2	1:VB:587:THR:OG1	2.17	0.58
1:VB:739:GLY:CA	1:WB:734:ARG:CZ	2.66	0.58
1:WB:291:ASP:HB2	1:WB:293:LYS:HE3	1.85	0.58
1:WB:746:LEU:CD1	1:XB:737:GLY:CA	2.81	0.58
1:A:338:GLN:HB3	1:A:370:LYS:HB3	1.86	0.58
1:A:695:ASP:CB	1:C:686:GLY:HA3	2.33	0.58
1:B:779:LEU:HD22	1:D:773:ALA:HB1	1.86	0.58
1:C:662:ILE:O	1:C:666:THR:HG23	2.04	0.58
1:D:654:LEU:HD13	1:F:534:HIS:CD2	2.38	0.58
1:E:774:ARG:O	1:E:777:LEU:HB3	2.04	0.58
1:F:774:ARG:O	1:F:777:LEU:HB3	2.04	0.58
1:G:338:GLN:HB3	1:G:370:LYS:HB3	1.86	0.58
1:H:338:GLN:HB3	1:H:370:LYS:HB3	1.86	0.58
1:J:382:LEU:HD21	1:J:388:ILE:HG23	1.86	0.58
1:K:774:ARG:O	1:K:777:LEU:HB3	2.04	0.58
1:L:662:ILE:O	1:L:666:THR:HG23	2.03	0.58
1:N:700:GLU:OE2	1:N:703:ARG:NH1	2.36	0.58
1:O:382:LEU:HD21	1:O:388:ILE:HG23	1.86	0.58
1:Q:291:ASP:HB2	1:Q:293:LYS:HE3	1.85	0.58
1:T:382:LEU:HD21	1:T:388:ILE:HG23	1.86	0.58
1:V:774:ARG:O	1:V:777:LEU:HB3	2.04	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:W:504:ARG:NH2	1:W:524:THR:O	2.37	0.58
1:Y:17:HIS:NE2	1:Y:99:LEU:O	2.33	0.58
1:BA:531:THR:OG1	1:BA:586:VAL:O	2.21	0.58
1:DA:531:THR:OG1	1:DA:586:VAL:O	2.21	0.58
1:FA:662:ILE:O	1:FA:666:THR:HG23	2.03	0.58
1:HA:774:ARG:O	1:HA:777:LEU:HB3	2.04	0.58
1:JA:227:LEU:HD23	1:JA:229:LEU:HD23	1.85	0.58
1:JA:531:THR:OG1	1:JA:586:VAL:O	2.21	0.58
1:MA:291:ASP:HB2	1:MA:293:LYS:HE3	1.85	0.58
1:MA:531:THR:OG1	1:MA:586:VAL:O	2.21	0.58
1:OA:338:GLN:HB3	1:OA:370:LYS:HB3	1.86	0.58
1:PA:64:PRO:O	1:PA:84:ARG:N	2.28	0.58
1:QA:774:ARG:O	1:QA:777:LEU:HB3	2.04	0.58
1:SA:504:ARG:NH2	1:SA:524:THR:O	2.37	0.58
1:UA:504:ARG:NH2	1:UA:524:THR:O	2.37	0.58
1:VA:382:LEU:HD21	1:VA:388:ILE:HG23	1.86	0.58
1:XA:720:GLY:CA	1:ZA:711:ALA:HB1	2.26	0.58
1:GB:382:LEU:HD21	1:GB:388:ILE:HG23	1.86	0.58
1:GB:531:THR:OG1	1:GB:586:VAL:O	2.21	0.58
1:GB:774:ARG:O	1:GB:777:LEU:HB3	2.04	0.58
1:IB:504:ARG:NH2	1:IB:524:THR:O	2.37	0.58
1:JB:774:ARG:O	1:JB:777:LEU:HB3	2.04	0.58
1:KB:504:ARG:NH2	1:KB:524:THR:O	2.37	0.58
1:LB:754:GLU:CG	1:MB:744:ALA:CB	2.77	0.58
1:MB:382:LEU:HD21	1:MB:388:ILE:HG23	1.86	0.58
1:NB:291:ASP:HB2	1:NB:293:LYS:HE3	1.85	0.58
1:OB:170:GLN:CG	1:PB:233:GLN:CD	2.71	0.58
1:OB:338:GLN:HB3	1:OB:370:LYS:HB3	1.86	0.58
1:SB:382:LEU:HD21	1:SB:388:ILE:HG23	1.86	0.58
1:TB:382:LEU:HD21	1:TB:388:ILE:HG23	1.86	0.58
1:UB:64:PRO:O	1:UB:84:ARG:N	2.28	0.58
1:WB:662:ILE:O	1:WB:666:THR:HG23	2.03	0.58
1:AC:774:ARG:O	1:AC:777:LEU:HB3	2.04	0.58
1:A:786:GLN:CB	1:C:781:VAL:HG11	2.21	0.58
1:B:338:GLN:HB3	1:B:370:LYS:HB3	1.86	0.58
1:C:227:LEU:HD23	1:C:229:LEU:HD23	1.85	0.58
1:D:542:ALA:HB2	1:F:573:LYS:HD2	1.86	0.58
1:D:688:LEU:HG	1:F:679:ARG:NH2	2.19	0.58
1:N:338:GLN:HB3	1:N:370:LYS:HB3	1.86	0.58
1:FA:338:GLN:HB3	1:FA:370:LYS:HB3	1.86	0.58
1:IA:338:GLN:HB3	1:IA:370:LYS:HB3	1.86	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:JA:291:ASP:HB2	1:JA:293:LYS:HE3	1.85	0.58
1:MA:166:THR:HG21	1:MA:212:VAL:HG11	1.84	0.58
1:MA:533:ASP:OD2	1:MA:587:THR:OG1	2.17	0.58
1:OA:662:ILE:O	1:OA:666:THR:HG23	2.04	0.58
1:PA:774:ARG:O	1:PA:777:LEU:HB3	2.04	0.58
1:SA:227:LEU:HD23	1:SA:229:LEU:HD23	1.85	0.58
1:SA:533:ASP:OD2	1:SA:587:THR:OG1	2.17	0.58
1:UA:382:LEU:HD21	1:UA:388:ILE:HG23	1.86	0.58
1:XA:662:ILE:O	1:XA:666:THR:HG23	2.03	0.58
1:ZA:382:LEU:HD21	1:ZA:388:ILE:HG23	1.86	0.58
1:BB:382:LEU:HD21	1:BB:388:ILE:HG23	1.86	0.58
1:EB:662:ILE:O	1:EB:666:THR:HG23	2.03	0.58
1:FB:531:THR:OG1	1:FB:586:VAL:O	2.21	0.58
1:MB:291:ASP:HB2	1:MB:293:LYS:HE3	1.85	0.58
1:MB:299:LYS:NZ	1:MB:317:GLU:OE2	2.32	0.58
1:OB:531:THR:OG1	1:OB:586:VAL:O	2.21	0.58
1:RB:504:ARG:NH2	1:RB:524:THR:O	2.37	0.58
1:SB:227:LEU:HD23	1:SB:229:LEU:HD23	1.85	0.58
1:SB:291:ASP:HB2	1:SB:293:LYS:HE3	1.85	0.58
1:TB:227:LEU:HD23	1:TB:229:LEU:HD23	1.85	0.58
1:TB:662:ILE:O	1:TB:666:THR:HG23	2.03	0.58
1:TB:774:ARG:O	1:TB:777:LEU:HB3	2.04	0.58
1:UB:735:ILE:HG22	1:VB:730:ALA:N	2.18	0.58
1:WB:504:ARG:NH2	1:WB:524:THR:O	2.37	0.58
1:XB:338:GLN:HB3	1:XB:370:LYS:HB3	1.86	0.58
1:YB:531:THR:OG1	1:YB:586:VAL:O	2.21	0.58
1:A:291:ASP:HB2	1:A:293:LYS:HE3	1.85	0.58
1:A:768:MET:HE3	1:C:763:LYS:CG	2.33	0.58
1:B:768:MET:CE	1:D:762:VAL:CG2	2.81	0.58
1:C:724:ALA:HA	1:E:715:ALA:HA	1.84	0.58
1:C:765:VAL:CA	1:E:759:LEU:CD1	2.78	0.58
1:J:182:CYS:O	1:J:190:ARG:N	2.35	0.58
1:L:700:GLU:OE2	1:L:703:ARG:NH1	2.36	0.58
1:N:774:ARG:O	1:N:777:LEU:HB3	2.04	0.58
1:Q:504:ARG:NH2	1:Q:524:THR:O	2.37	0.58
1:V:504:ARG:NH2	1:V:524:THR:O	2.37	0.58
1:W:338:GLN:HB3	1:W:370:LYS:HB3	1.86	0.58
1:Z:662:ILE:O	1:Z:666:THR:HG23	2.04	0.58
1:BA:382:LEU:HD21	1:BA:388:ILE:HG23	1.86	0.58
1:EA:227:LEU:HD23	1:EA:229:LEU:HD23	1.85	0.58
1:EA:531:THR:OG1	1:EA:586:VAL:O	2.21	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:GA:17:HIS:NE2	1:GA:99:LEU:O	2.33	0.58
1:HA:227:LEU:HD23	1:HA:229:LEU:HD23	1.85	0.58
1:LA:17:HIS:NE2	1:LA:99:LEU:O	2.33	0.58
1:OA:227:LEU:HD23	1:OA:229:LEU:HD23	1.85	0.58
1:QA:531:THR:OG1	1:QA:586:VAL:O	2.21	0.58
1:RA:227:LEU:HD23	1:RA:229:LEU:HD23	1.85	0.58
1:RA:338:GLN:HB3	1:RA:370:LYS:HB3	1.86	0.58
1:SA:382:LEU:HD21	1:SA:388:ILE:HG23	1.86	0.58
1:TA:662:ILE:O	1:TA:666:THR:HG23	2.03	0.58
1:UA:474:ARG:HB2	1:UA:492:GLU:HB2	1.84	0.58
1:VA:691:GLN:OE1	1:XA:679:ARG:NE	2.37	0.58
1:WA:338:GLN:HB3	1:WA:370:LYS:HB3	1.86	0.58
1:WA:474:ARG:HB2	1:WA:492:GLU:HB2	1.84	0.58
1:DB:382:LEU:HD21	1:DB:388:ILE:HG23	1.86	0.58
1:EB:227:LEU:HD23	1:EB:229:LEU:HD23	1.85	0.58
1:EB:713:SER:OG	1:FB:703:ARG:HG2	2.04	0.58
1:FB:504:ARG:NH2	1:FB:524:THR:O	2.37	0.58
1:HB:662:ILE:O	1:HB:666:THR:HG23	2.03	0.58
1:LB:504:ARG:NH2	1:LB:524:THR:O	2.37	0.58
1:LB:662:ILE:O	1:LB:666:THR:HG23	2.03	0.58
1:MB:504:ARG:NH2	1:MB:524:THR:O	2.37	0.58
1:NB:382:LEU:HD21	1:NB:388:ILE:HG23	1.86	0.58
1:NB:662:ILE:O	1:NB:666:THR:HG23	2.04	0.58
1:PB:227:LEU:HD23	1:PB:229:LEU:HD23	1.85	0.58
1:PB:774:ARG:O	1:PB:777:LEU:HB3	2.04	0.58
1:QB:504:ARG:NH2	1:QB:524:THR:O	2.37	0.58
1:SB:504:ARG:NH2	1:SB:524:THR:O	2.37	0.58
1:UB:382:LEU:HD21	1:UB:388:ILE:HG23	1.86	0.58
1:XB:461:ARG:HH11	1:YB:473:TYR:HE2	1.50	0.58
1:YB:227:LEU:HD23	1:YB:229:LEU:HD23	1.85	0.58
1:ZB:382:LEU:HD21	1:ZB:388:ILE:HG23	1.86	0.58
1:AC:338:GLN:HB3	1:AC:370:LYS:HB3	1.86	0.58
1:C:531:THR:OG1	1:C:586:VAL:O	2.21	0.57
1:D:257:GLU:CB	1:F:244:ARG:HG3	2.34	0.57
1:I:338:GLN:HB3	1:I:370:LYS:HB3	1.86	0.57
1:K:504:ARG:NH2	1:K:524:THR:O	2.37	0.57
1:L:17:HIS:NE2	1:L:99:LEU:O	2.33	0.57
1:N:64:PRO:O	1:N:84:ARG:N	2.28	0.57
1:P:338:GLN:HB3	1:P:370:LYS:HB3	1.86	0.57
1:T:227:LEU:HD23	1:T:229:LEU:HD23	1.85	0.57
1:X:504:ARG:NH2	1:X:524:THR:O	2.37	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:X:774:ARG:O	1:X:777:LEU:HB3	2.04	0.57
1:Y:227:LEU:HD23	1:Y:229:LEU:HD23	1.85	0.57
1:Z:774:ARG:O	1:Z:777:LEU:HB3	2.04	0.57
1:BA:533:ASP:OD2	1:BA:587:THR:OG1	2.17	0.57
1:GA:504:ARG:NH2	1:GA:524:THR:O	2.37	0.57
1:IA:504:ARG:NH2	1:IA:524:THR:O	2.37	0.57
1:LA:291:ASP:HB2	1:LA:293:LYS:HE3	1.85	0.57
1:MA:227:LEU:HD23	1:MA:229:LEU:HD23	1.85	0.57
1:MA:504:ARG:NH2	1:MA:524:THR:O	2.37	0.57
1:OA:531:THR:OG1	1:OA:586:VAL:O	2.21	0.57
1:VA:291:ASP:HB2	1:VA:293:LYS:HE3	1.85	0.57
1:VA:504:ARG:NH2	1:VA:524:THR:O	2.37	0.57
1:YA:227:LEU:HD23	1:YA:229:LEU:HD23	1.85	0.57
1:YA:291:ASP:HB2	1:YA:293:LYS:HE3	1.85	0.57
1:YA:531:THR:OG1	1:YA:586:VAL:O	2.21	0.57
1:BB:291:ASP:HB2	1:BB:293:LYS:HE3	1.85	0.57
1:EB:382:LEU:HD21	1:EB:388:ILE:HG23	1.86	0.57
1:FB:364:GLU:CD	1:GB:339:PRO:HG3	2.23	0.57
1:JB:182:CYS:O	1:JB:190:ARG:N	2.35	0.57
1:OB:32:PRO:HG2	1:PB:23:SER:O	2.03	0.57
1:OB:307:SER:CB	1:PB:296:LEU:CB	2.70	0.57
1:PB:338:GLN:HB3	1:PB:370:LYS:HB3	1.86	0.57
1:QB:64:PRO:O	1:QB:84:ARG:N	2.28	0.57
1:SB:531:THR:OG1	1:SB:586:VAL:O	2.21	0.57
1:SB:774:ARG:O	1:SB:777:LEU:HB3	2.04	0.57
1:VB:662:ILE:O	1:VB:666:THR:HG23	2.04	0.57
1:VB:724:ALA:CA	1:WB:718:SER:OG	2.51	0.57
1:XB:662:ILE:O	1:XB:666:THR:HG23	2.03	0.57
1:YB:382:LEU:HD21	1:YB:388:ILE:HG23	1.86	0.57
1:ZB:531:THR:OG1	1:ZB:586:VAL:O	2.21	0.57
1:B:534:HIS:CB	1:AC:658:VAL:HG22	2.33	0.57
1:C:504:ARG:NH2	1:C:524:THR:O	2.37	0.57
1:D:504:ARG:NH2	1:D:524:THR:O	2.37	0.57
1:D:681:GLU:HB2	1:F:675:HIS:CE1	2.38	0.57
1:E:504:ARG:NH2	1:E:524:THR:O	2.37	0.57
1:I:17:HIS:NE2	1:I:99:LEU:O	2.33	0.57
1:J:96:PRO:HD3	1:L:85:HIS:NE2	2.19	0.57
1:J:700:GLU:OE2	1:J:703:ARG:NH1	2.36	0.57
1:L:291:ASP:HB2	1:L:293:LYS:HE3	1.85	0.57
1:M:504:ARG:NH2	1:M:524:THR:O	2.37	0.57
1:P:382:LEU:HD21	1:P:388:ILE:HG23	1.86	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:P:774:ARG:O	1:P:777:LEU:HB3	2.04	0.57
1:R:774:ARG:O	1:R:777:LEU:HB3	2.04	0.57
1:S:382:LEU:HD21	1:S:388:ILE:HG23	1.86	0.57
1:T:662:ILE:O	1:T:666:THR:HG23	2.04	0.57
1:V:227:LEU:HD23	1:V:229:LEU:HD23	1.85	0.57
1:X:338:GLN:HB3	1:X:370:LYS:HB3	1.86	0.57
1:X:474:ARG:HB2	1:X:492:GLU:HB2	1.84	0.57
1:Z:531:THR:OG1	1:Z:586:VAL:O	2.21	0.57
1:BA:338:GLN:HB3	1:BA:370:LYS:HB3	1.86	0.57
1:CA:382:LEU:HD21	1:CA:388:ILE:HG23	1.86	0.57
1:FA:504:ARG:NH2	1:FA:524:THR:O	2.37	0.57
1:HA:382:LEU:HD21	1:HA:388:ILE:HG23	1.86	0.57
1:HA:504:ARG:NH2	1:HA:524:THR:O	2.37	0.57
1:KA:774:ARG:O	1:KA:777:LEU:HB3	2.04	0.57
1:LA:774:ARG:O	1:LA:777:LEU:HB3	2.04	0.57
1:NA:338:GLN:HB3	1:NA:370:LYS:HB3	1.86	0.57
1:OA:291:ASP:HB2	1:OA:293:LYS:HE3	1.85	0.57
1:TA:227:LEU:HD23	1:TA:229:LEU:HD23	1.85	0.57
1:TA:338:GLN:HB3	1:TA:370:LYS:HB3	1.86	0.57
1:UA:182:CYS:O	1:UA:190:ARG:N	2.35	0.57
1:XA:227:LEU:HD23	1:XA:229:LEU:HD23	1.85	0.57
1:XA:504:ARG:NH2	1:XA:524:THR:O	2.37	0.57
1:AB:385:ASN:ND2	1:OB:473:TYR:O	2.37	0.57
1:AB:504:ARG:NH2	1:AB:524:THR:O	2.37	0.57
1:CB:382:LEU:HD21	1:CB:388:ILE:HG23	1.86	0.57
1:DB:774:ARG:O	1:DB:777:LEU:HB3	2.04	0.57
1:EB:531:THR:OG1	1:EB:586:VAL:O	2.21	0.57
1:FB:227:LEU:HD23	1:FB:229:LEU:HD23	1.85	0.57
1:GB:182:CYS:O	1:GB:190:ARG:N	2.35	0.57
1:GB:338:GLN:HB3	1:GB:370:LYS:HB3	1.86	0.57
1:GB:504:ARG:NH2	1:GB:524:THR:O	2.37	0.57
1:MB:662:ILE:O	1:MB:666:THR:HG23	2.04	0.57
1:OB:64:PRO:O	1:OB:84:ARG:N	2.28	0.57
1:RB:774:ARG:O	1:RB:777:LEU:HB3	2.04	0.57
1:TB:291:ASP:HB2	1:TB:293:LYS:HE3	1.85	0.57
1:VB:750:ALA:HA	1:WB:744:ALA:HB2	1.84	0.57
1:XB:504:ARG:NH2	1:XB:524:THR:O	2.37	0.57
1:AC:17:HIS:NE2	1:AC:99:LEU:O	2.34	0.57
1:A:727:GLU:C	1:C:719:THR:HA	2.24	0.57
1:C:724:ALA:HB1	1:E:715:ALA:HA	1.83	0.57
1:C:742:LEU:HD12	1:C:745:LYS:HB2	1.87	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:51:VAL:HA	1:F:85:HIS:HD2	1.68	0.57
1:D:167:VAL:CG2	1:F:192:THR:H	2.18	0.57
1:F:382:LEU:HD21	1:F:388:ILE:HG23	1.86	0.57
1:L:55:PRO:HB2	1:N:127:LEU:HD13	1.86	0.57
1:O:227:LEU:HD23	1:O:229:LEU:HD23	1.85	0.57
1:R:291:ASP:HB2	1:R:293:LYS:HE3	1.85	0.57
1:S:291:ASP:HB2	1:S:293:LYS:HE3	1.85	0.57
1:T:504:ARG:NH2	1:T:524:THR:O	2.37	0.57
1:V:166:THR:HG21	1:V:212:VAL:HG11	1.84	0.57
1:X:291:ASP:HB2	1:X:293:LYS:HE3	1.85	0.57
1:BA:774:ARG:O	1:BA:777:LEU:HB3	2.04	0.57
1:CA:504:ARG:NH2	1:CA:524:THR:O	2.37	0.57
1:FA:774:ARG:O	1:FA:777:LEU:HB3	2.04	0.57
1:HA:338:GLN:HB3	1:HA:370:LYS:HB3	1.86	0.57
1:IA:291:ASP:HB2	1:IA:293:LYS:HE3	1.85	0.57
1:KA:338:GLN:HB3	1:KA:370:LYS:HB3	1.86	0.57
1:LA:531:THR:OG1	1:LA:586:VAL:O	2.21	0.57
1:MA:17:HIS:NE2	1:MA:99:LEU:O	2.34	0.57
1:UA:338:GLN:HB3	1:UA:370:LYS:HB3	1.86	0.57
1:VA:227:LEU:HD23	1:VA:229:LEU:HD23	1.85	0.57
1:VA:338:GLN:HB3	1:VA:370:LYS:HB3	1.86	0.57
1:WA:504:ARG:NH2	1:WA:524:THR:O	2.37	0.57
1:WA:662:ILE:O	1:WA:666:THR:HG23	2.03	0.57
1:WA:774:ARG:O	1:WA:777:LEU:HB3	2.04	0.57
1:FB:171:ASN:ND2	1:GB:245:THR:CG2	2.67	0.57
1:HB:774:ARG:O	1:HB:777:LEU:HB3	2.04	0.57
1:LB:531:THR:OG1	1:LB:586:VAL:O	2.21	0.57
1:MB:774:ARG:O	1:MB:777:LEU:HB3	2.04	0.57
1:NB:182:CYS:O	1:NB:190:ARG:N	2.35	0.57
1:NB:338:GLN:HB3	1:NB:370:LYS:HB3	1.86	0.57
1:OB:504:ARG:NH2	1:OB:524:THR:O	2.37	0.57
1:TB:504:ARG:NH2	1:TB:524:THR:O	2.37	0.57
1:TB:531:THR:OG1	1:TB:586:VAL:O	2.21	0.57
1:VB:291:ASP:HB2	1:VB:293:LYS:HE3	1.85	0.57
1:ZB:662:ILE:O	1:ZB:666:THR:HG23	2.04	0.57
1:ZB:753:ILE:HD13	1:AC:744:ALA:O	2.04	0.57
1:AC:504:ARG:NH2	1:AC:524:THR:O	2.37	0.57
1:A:504:ARG:NH2	1:A:524:THR:O	2.37	0.57
1:B:504:ARG:NH2	1:B:524:THR:O	2.37	0.57
1:B:768:MET:HE2	1:D:762:VAL:HG23	1.85	0.57
1:D:383:ASP:HB3	1:F:397:LYS:N	2.16	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:662:ILE:O	1:D:666:THR:HG23	2.03	0.57
1:D:774:ARG:O	1:D:777:LEU:HB3	2.04	0.57
1:G:291:ASP:HB2	1:G:293:LYS:HE3	1.85	0.57
1:G:531:THR:OG1	1:G:586:VAL:O	2.21	0.57
1:J:774:ARG:O	1:J:777:LEU:HB3	2.04	0.57
1:Q:531:THR:OG1	1:Q:586:VAL:O	2.21	0.57
1:Q:533:ASP:OD2	1:Q:587:THR:OG1	2.17	0.57
1:V:742:LEU:HD12	1:V:745:LYS:HB2	1.87	0.57
1:W:227:LEU:HD23	1:W:229:LEU:HD23	1.85	0.57
1:W:382:LEU:HD21	1:W:388:ILE:HG23	1.86	0.57
1:X:382:LEU:HD21	1:X:388:ILE:HG23	1.86	0.57
1:Y:700:GLU:OE2	1:Y:703:ARG:NH1	2.36	0.57
1:Z:291:ASP:HB2	1:Z:293:LYS:HE3	1.85	0.57
1:AA:504:ARG:NH2	1:AA:524:THR:O	2.37	0.57
1:CA:338:GLN:HB3	1:CA:370:LYS:HB3	1.86	0.57
1:DA:774:ARG:O	1:DA:777:LEU:HB3	2.04	0.57
1:FA:182:CYS:O	1:FA:190:ARG:N	2.36	0.57
1:HA:742:LEU:HD12	1:HA:745:LYS:HB2	1.87	0.57
1:JA:774:ARG:O	1:JA:777:LEU:HB3	2.04	0.57
1:MA:662:ILE:O	1:MA:666:THR:HG23	2.04	0.57
1:NA:382:LEU:HD21	1:NA:388:ILE:HG23	1.86	0.57
1:NA:533:ASP:OD2	1:NA:587:THR:OG1	2.17	0.57
1:OA:382:LEU:HD21	1:OA:388:ILE:HG23	1.86	0.57
1:OA:504:ARG:NH2	1:OA:524:THR:O	2.37	0.57
1:PA:662:ILE:O	1:PA:666:THR:HG23	2.03	0.57
1:PA:742:LEU:HD12	1:PA:745:LYS:HB2	1.87	0.57
1:QA:504:ARG:NH2	1:QA:524:THR:O	2.37	0.57
1:TA:504:ARG:NH2	1:TA:524:THR:O	2.37	0.57
1:VA:774:ARG:O	1:VA:777:LEU:HB3	2.04	0.57
1:XA:774:ARG:O	1:XA:777:LEU:HB3	2.04	0.57
1:ZA:662:ILE:O	1:ZA:666:THR:HG23	2.03	0.57
1:ZA:774:ARG:O	1:ZA:777:LEU:HB3	2.04	0.57
1:AB:64:PRO:O	1:AB:84:ARG:N	2.28	0.57
1:BB:742:LEU:HD12	1:BB:745:LYS:HB2	1.87	0.57
1:CB:504:ARG:NH2	1:CB:524:THR:O	2.37	0.57
1:DB:338:GLN:HB3	1:DB:370:LYS:HB3	1.86	0.57
1:EB:755:THR:HA	1:EB:758:GLU:HB3	1.87	0.57
1:FB:774:ARG:O	1:FB:777:LEU:HB3	2.04	0.57
1:IB:382:LEU:HD21	1:IB:388:ILE:HG23	1.86	0.57
1:LB:227:LEU:HD23	1:LB:229:LEU:HD23	1.85	0.57
1:LB:382:LEU:HD21	1:LB:388:ILE:HG23	1.86	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:LB:742:LEU:HD12	1:LB:745:LYS:HB2	1.87	0.57
1:NB:504:ARG:NH2	1:NB:524:THR:O	2.37	0.57
1:TB:639:ASP:OD2	1:UB:577:SER:CB	2.53	0.57
1:UB:802:LEU:HD23	1:VB:807:ILE:CG1	2.34	0.57
1:VB:774:ARG:O	1:VB:777:LEU:HB3	2.04	0.57
1:VB:779:LEU:HD13	1:WB:773:ALA:HB3	1.86	0.57
1:WB:338:GLN:HB3	1:WB:370:LYS:HB3	1.86	0.57
1:WB:382:LEU:HD21	1:WB:388:ILE:HG23	1.86	0.57
1:YB:338:GLN:HB3	1:YB:370:LYS:HB3	1.86	0.57
1:ZB:504:ARG:NH2	1:ZB:524:THR:O	2.37	0.57
1:A:662:ILE:O	1:A:666:THR:HG23	2.04	0.57
1:C:338:GLN:HB3	1:C:370:LYS:HB3	1.86	0.57
1:F:531:THR:OG1	1:F:586:VAL:O	2.21	0.57
1:G:382:LEU:HD21	1:G:388:ILE:HG23	1.86	0.57
1:I:755:THR:HA	1:I:758:GLU:HB3	1.87	0.57
1:K:382:LEU:HD21	1:K:388:ILE:HG23	1.86	0.57
1:L:338:GLN:HB3	1:L:370:LYS:HB3	1.86	0.57
1:M:774:ARG:O	1:M:777:LEU:HB3	2.04	0.57
1:O:17:HIS:NE2	1:O:99:LEU:O	2.33	0.57
1:O:662:ILE:O	1:O:666:THR:HG23	2.03	0.57
1:O:774:ARG:O	1:O:777:LEU:HB3	2.04	0.57
1:Q:182:CYS:O	1:Q:190:ARG:N	2.35	0.57
1:Q:774:ARG:O	1:Q:777:LEU:HB3	2.04	0.57
1:X:64:PRO:O	1:X:84:ARG:N	2.28	0.57
1:Y:291:ASP:HB2	1:Y:293:LYS:HE3	1.85	0.57
1:Y:338:GLN:HB3	1:Y:370:LYS:HB3	1.86	0.57
1:Y:382:LEU:HD21	1:Y:388:ILE:HG23	1.86	0.57
1:Y:774:ARG:O	1:Y:777:LEU:HB3	2.04	0.57
1:AA:291:ASP:HB2	1:AA:293:LYS:HE3	1.85	0.57
1:JA:504:ARG:NH2	1:JA:524:THR:O	2.37	0.57
1:QA:338:GLN:HB3	1:QA:370:LYS:HB3	1.86	0.57
1:RA:662:ILE:O	1:RA:666:THR:HG23	2.03	0.57
1:UA:291:ASP:HB2	1:UA:293:LYS:HE3	1.85	0.57
1:UA:662:ILE:O	1:UA:666:THR:HG23	2.03	0.57
1:WA:742:LEU:HD12	1:WA:745:LYS:HB2	1.87	0.57
1:XA:291:ASP:HB2	1:XA:293:LYS:HE3	1.85	0.57
1:YA:755:THR:HA	1:YA:758:GLU:HB3	1.87	0.57
1:FB:224:LYS:HG3	1:GB:296:LEU:HD11	1.86	0.57
1:HB:504:ARG:NH2	1:HB:524:THR:O	2.37	0.57
1:KB:755:THR:HA	1:KB:758:GLU:HB3	1.87	0.57
1:LB:520:PRO:HD2	1:MB:563:SER:CB	2.30	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:LB:728:SER:HB3	1:MB:719:THR:HA	1.84	0.57
1:OB:533:ASP:OD2	1:OB:587:THR:OG1	2.17	0.57
1:QB:742:LEU:HD12	1:QB:745:LYS:HB2	1.87	0.57
1:SB:755:THR:HA	1:SB:758:GLU:HB3	1.87	0.57
1:VB:742:LEU:HD12	1:VB:745:LYS:HB2	1.87	0.57
1:B:279:ARG:NH2	1:D:338:GLN:CB	2.54	0.57
1:B:533:ASP:HB3	1:AC:661:ALA:HB1	1.86	0.57
1:C:382:LEU:HD21	1:C:388:ILE:HG23	1.86	0.57
1:C:655:GLN:HG2	1:E:649:ARG:HD3	1.85	0.57
1:D:9:ARG:CB	1:F:24:ASN:HB2	2.34	0.57
1:G:504:ARG:NH2	1:G:524:THR:O	2.37	0.57
1:J:742:LEU:HD12	1:J:745:LYS:HB2	1.87	0.57
1:L:533:ASP:OD2	1:L:587:THR:OG1	2.17	0.57
1:L:755:THR:HA	1:L:758:GLU:HB3	1.87	0.57
1:P:227:LEU:HD23	1:P:229:LEU:HD23	1.85	0.57
1:R:595:SER:CB	1:T:580:ARG:NH1	2.67	0.57
1:R:755:THR:HA	1:R:758:GLU:HB3	1.87	0.57
1:Y:504:ARG:NH2	1:Y:524:THR:O	2.37	0.57
1:Z:504:ARG:NH2	1:Z:524:THR:O	2.37	0.57
1:AA:382:LEU:HD21	1:AA:388:ILE:HG23	1.86	0.57
1:DA:504:ARG:NH2	1:DA:524:THR:O	2.37	0.57
1:GA:291:ASP:HB2	1:GA:293:LYS:HE3	1.85	0.57
1:IA:662:ILE:O	1:IA:666:THR:HG23	2.03	0.57
1:KA:742:LEU:HD12	1:KA:745:LYS:HB2	1.87	0.57
1:LA:338:GLN:HB3	1:LA:370:LYS:HB3	1.86	0.57
1:MA:742:LEU:HD12	1:MA:745:LYS:HB2	1.87	0.57
1:YA:504:ARG:NH2	1:YA:524:THR:O	2.37	0.57
1:AB:338:GLN:HB3	1:AB:370:LYS:HB3	1.86	0.57
1:FB:291:ASP:HB2	1:FB:293:LYS:HE3	1.85	0.57
1:FB:520:PRO:HB2	1:GB:630:GLN:HB2	1.87	0.57
1:IB:755:THR:HA	1:IB:758:GLU:HB3	1.87	0.57
1:JB:382:LEU:HD21	1:JB:388:ILE:HG23	1.86	0.57
1:LB:279:ARG:HH12	1:MB:299:LYS:NZ	2.03	0.57
1:OB:735:ILE:CG2	1:PB:730:ALA:CB	2.82	0.57
1:PB:742:LEU:HD12	1:PB:745:LYS:HB2	1.87	0.57
1:QB:755:THR:HA	1:QB:758:GLU:HB3	1.87	0.57
1:TB:533:ASP:OD2	1:TB:587:THR:OG1	2.17	0.57
1:UB:338:GLN:HB3	1:UB:370:LYS:HB3	1.86	0.57
1:VB:702:ALA:HB3	1:WB:693:ILE:HG21	1.87	0.57
1:WB:742:LEU:HD12	1:WB:745:LYS:HB2	1.87	0.57
1:AC:382:LEU:HD21	1:AC:388:ILE:HG23	1.86	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:382:LEU:HD21	1:B:388:ILE:HG23	1.86	0.57
1:D:227:LEU:HD23	1:D:229:LEU:HD23	1.85	0.57
1:D:533:ASP:OD2	1:D:587:THR:OG1	2.17	0.57
1:D:692:LYS:CE	1:F:682:GLN:HG2	2.32	0.57
1:D:703:ARG:HH21	1:F:693:ILE:HD12	1.70	0.57
1:E:531:THR:OG1	1:E:586:VAL:O	2.21	0.57
1:E:755:THR:HA	1:E:758:GLU:HB3	1.87	0.57
1:F:504:ARG:NH2	1:F:524:THR:O	2.37	0.57
1:L:504:ARG:NH2	1:L:524:THR:O	2.37	0.57
1:M:227:LEU:HD23	1:M:229:LEU:HD23	1.85	0.57
1:O:755:THR:HA	1:O:758:GLU:HB3	1.87	0.57
1:R:742:LEU:HD12	1:R:745:LYS:HB2	1.87	0.57
1:S:34:THR:HG21	1:V:22:ASN:O	2.05	0.57
1:W:182:CYS:O	1:W:190:ARG:N	2.35	0.57
1:W:662:ILE:O	1:W:666:THR:HG23	2.04	0.57
1:Y:755:THR:HA	1:Y:758:GLU:HB3	1.87	0.57
1:Z:17:HIS:NE2	1:Z:99:LEU:O	2.33	0.57
1:Z:742:LEU:HD12	1:Z:745:LYS:HB2	1.87	0.57
1:AA:774:ARG:O	1:AA:777:LEU:HB3	2.04	0.57
1:BA:742:LEU:HD12	1:BA:745:LYS:HB2	1.87	0.57
1:KA:504:ARG:NH2	1:KA:524:THR:O	2.37	0.57
1:LA:504:ARG:NH2	1:LA:524:THR:O	2.37	0.57
1:VA:755:THR:HA	1:VA:758:GLU:HB3	1.87	0.57
1:YA:742:LEU:HD12	1:YA:745:LYS:HB2	1.87	0.57
1:ZA:17:HIS:NE2	1:ZA:99:LEU:O	2.33	0.57
1:ZA:504:ARG:NH2	1:ZA:524:THR:O	2.37	0.57
1:BB:774:ARG:O	1:BB:777:LEU:HB3	2.04	0.57
1:FB:364:GLU:HB3	1:GB:353:ALA:HB3	1.86	0.57
1:GB:64:PRO:O	1:GB:84:ARG:N	2.28	0.57
1:IB:774:ARG:O	1:IB:777:LEU:HB3	2.04	0.57
1:JB:504:ARG:NH2	1:JB:524:THR:O	2.37	0.57
1:LB:681:GLU:HA	1:MB:675:HIS:NE2	2.20	0.57
1:LB:681:GLU:CB	1:MB:675:HIS:NE2	2.63	0.57
1:LB:706:LEU:HD13	1:MB:697:SER:HA	1.87	0.57
1:MB:17:HIS:NE2	1:MB:99:LEU:O	2.33	0.57
1:MB:338:GLN:HB3	1:MB:370:LYS:HB3	1.86	0.57
1:PB:17:HIS:NE2	1:PB:99:LEU:O	2.33	0.57
1:QB:774:ARG:O	1:QB:777:LEU:HB3	2.04	0.57
1:TB:742:LEU:HD12	1:TB:745:LYS:HB2	1.87	0.57
1:VB:755:THR:HA	1:VB:758:GLU:HB3	1.87	0.57
1:XB:755:THR:HA	1:XB:758:GLU:HB3	1.87	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:ZB:227:LEU:HD23	1:ZB:229:LEU:HD23	1.85	0.57
1:AC:533:ASP:OD2	1:AC:587:THR:OG1	2.17	0.57
1:A:746:LEU:CD1	1:C:738:GLU:H	2.14	0.57
1:A:779:LEU:CB	1:C:773:ALA:HB3	2.33	0.57
1:C:533:ASP:OD2	1:C:587:THR:OG1	2.17	0.57
1:D:484:PRO:HB2	1:F:471:TYR:CE2	2.38	0.57
1:G:227:LEU:HD23	1:G:229:LEU:HD23	1.85	0.57
1:H:794:LYS:HG3	1:J:791:GLU:OE2	2.05	0.57
1:J:662:ILE:O	1:J:666:THR:HG23	2.03	0.57
1:J:755:THR:HA	1:J:758:GLU:HB3	1.87	0.57
1:L:774:ARG:O	1:L:777:LEU:HB3	2.04	0.57
1:R:17:HIS:NE2	1:R:99:LEU:O	2.33	0.57
1:S:504:ARG:NH2	1:S:524:THR:O	2.37	0.57
1:S:742:LEU:HD12	1:S:745:LYS:HB2	1.87	0.57
1:V:291:ASP:HB2	1:V:293:LYS:HE3	1.85	0.57
1:V:338:GLN:HB3	1:V:370:LYS:HB3	1.86	0.57
1:W:742:LEU:HD12	1:W:745:LYS:HB2	1.87	0.57
1:Y:742:LEU:HD12	1:Y:745:LYS:HB2	1.87	0.57
1:CA:662:ILE:O	1:CA:666:THR:HG23	2.03	0.57
1:CA:774:ARG:O	1:CA:777:LEU:HB3	2.04	0.57
1:EA:755:THR:HA	1:EA:758:GLU:HB3	1.87	0.57
1:FA:742:LEU:HD12	1:FA:745:LYS:HB2	1.87	0.57
1:IA:382:LEU:HD21	1:IA:388:ILE:HG23	1.86	0.57
1:PA:182:CYS:O	1:PA:190:ARG:N	2.35	0.57
1:PA:291:ASP:HB2	1:PA:293:LYS:HE3	1.85	0.57
1:PA:755:THR:HA	1:PA:758:GLU:HB3	1.87	0.57
1:QA:299:LYS:NZ	1:QA:317:GLU:OE2	2.32	0.57
1:UA:64:PRO:O	1:UA:84:ARG:N	2.28	0.57
1:XA:17:HIS:NE2	1:XA:99:LEU:O	2.34	0.57
1:YA:662:ILE:O	1:YA:666:THR:HG23	2.03	0.57
1:BB:182:CYS:O	1:BB:190:ARG:N	2.35	0.57
1:FB:654:LEU:CG	1:GB:534:HIS:CD2	2.83	0.57
1:GB:662:ILE:O	1:GB:666:THR:HG23	2.03	0.57
1:JB:17:HIS:NE2	1:JB:99:LEU:O	2.34	0.57
1:JB:338:GLN:HB3	1:JB:370:LYS:HB3	1.86	0.57
1:KB:338:GLN:HB3	1:KB:370:LYS:HB3	1.86	0.57
1:KB:382:LEU:HD21	1:KB:388:ILE:HG23	1.86	0.57
1:LB:755:THR:HA	1:LB:758:GLU:HB3	1.87	0.57
1:MB:755:THR:HA	1:MB:758:GLU:HB3	1.87	0.57
1:NB:17:HIS:NE2	1:NB:99:LEU:O	2.33	0.57
1:OB:325:VAL:HG11	1:PB:335:LYS:HE3	1.87	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:PB:504:ARG:NH2	1:PB:524:THR:O	2.37	0.57
1:RB:32:PRO:HB2	1:SB:24:ASN:HD22	1.68	0.57
1:RB:522:PHE:HB3	1:SB:573:LYS:HE2	1.86	0.57
1:SB:17:HIS:NE2	1:SB:99:LEU:O	2.34	0.57
1:VB:504:ARG:NH2	1:VB:524:THR:O	2.37	0.57
1:WB:227:LEU:HD23	1:WB:229:LEU:HD23	1.85	0.57
1:YB:533:ASP:OD2	1:YB:587:THR:OG1	2.17	0.57
1:ZB:774:ARG:O	1:ZB:777:LEU:HB3	2.04	0.57
1:A:687:ARG:HH12	1:C:679:ARG:NH1	2.02	0.57
1:A:749:GLN:HB3	1:C:745:LYS:HZ3	1.70	0.57
1:A:768:MET:HE2	1:C:763:LYS:CA	2.35	0.57
1:C:768:MET:HE2	1:E:763:LYS:HB2	1.86	0.57
1:D:291:ASP:HB2	1:D:293:LYS:HE3	1.85	0.57
1:E:227:LEU:HD23	1:E:229:LEU:HD23	1.85	0.57
1:E:338:GLN:HB3	1:E:370:LYS:HB3	1.86	0.57
1:H:742:LEU:HD12	1:H:745:LYS:HB2	1.87	0.57
1:I:504:ARG:NH2	1:I:524:THR:O	2.37	0.57
1:J:504:ARG:NH2	1:J:524:THR:O	2.37	0.57
1:K:338:GLN:HB3	1:K:370:LYS:HB3	1.86	0.57
1:L:227:LEU:HD23	1:L:229:LEU:HD23	1.85	0.57
1:L:382:LEU:HD21	1:L:388:ILE:HG23	1.86	0.57
1:O:531:THR:OG1	1:O:586:VAL:O	2.21	0.57
1:O:742:LEU:HD12	1:O:745:LYS:HB2	1.87	0.57
1:BA:662:ILE:O	1:BA:666:THR:HG23	2.03	0.57
1:IA:55:PRO:N	1:KA:86:ALA:HB1	2.19	0.57
1:IA:706:LEU:HD21	1:KA:693:ILE:O	2.04	0.57
1:RA:504:ARG:NH2	1:RA:524:THR:O	2.37	0.57
1:SA:17:HIS:NE2	1:SA:99:LEU:O	2.33	0.57
1:UA:774:ARG:O	1:UA:777:LEU:HB3	2.04	0.57
1:ZA:338:GLN:HB3	1:ZA:370:LYS:HB3	1.86	0.57
1:ZA:742:LEU:HD12	1:ZA:745:LYS:HB2	1.87	0.57
1:AB:227:LEU:HD23	1:AB:229:LEU:HD23	1.85	0.57
1:BB:755:THR:HA	1:BB:758:GLU:HB3	1.87	0.57
1:EB:504:ARG:NH2	1:EB:524:THR:O	2.37	0.57
1:IB:338:GLN:HB3	1:IB:370:LYS:HB3	1.86	0.57
1:JB:662:ILE:O	1:JB:666:THR:HG23	2.03	0.57
1:JB:755:THR:HA	1:JB:758:GLU:HB3	1.87	0.57
1:LB:338:GLN:HB3	1:LB:370:LYS:HB3	1.86	0.57
1:OB:278:PRO:CG	1:PB:299:LYS:HE3	2.35	0.57
1:PB:382:LEU:HD21	1:PB:388:ILE:HG23	1.86	0.57
1:PB:755:THR:HA	1:PB:758:GLU:HB3	1.87	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:QB:338:GLN:HB3	1:QB:370:LYS:HB3	1.86	0.57
1:SB:742:LEU:HD12	1:SB:745:LYS:HB2	1.87	0.57
1:TB:338:GLN:HB3	1:TB:370:LYS:HB3	1.86	0.57
1:UB:504:ARG:NH2	1:UB:524:THR:O	2.37	0.57
1:UB:691:GLN:OE1	1:VB:682:GLN:HG2	2.05	0.57
1:XB:116:LEU:HB2	1:XB:119:THR:HG23	1.87	0.57
1:XB:774:ARG:O	1:XB:777:LEU:HB3	2.04	0.57
1:A:746:LEU:CD1	1:C:738:GLU:HB3	2.32	0.57
1:C:779:LEU:HD21	1:E:770:LEU:CB	2.30	0.57
1:C:813:ALA:HB2	1:E:811:ALA:CB	2.33	0.57
1:D:279:ARG:NH2	1:F:369:ALA:C	2.58	0.57
1:E:717:GLU:CB	1:G:707:LEU:HB3	2.31	0.57
1:F:21:GLN:HE22	1:F:39:ASP:HB2	1.70	0.57
1:G:779:LEU:HD13	1:I:773:ALA:CB	2.35	0.57
1:I:21:GLN:HE22	1:I:39:ASP:HB2	1.70	0.57
1:I:742:LEU:HD12	1:I:745:LYS:HB2	1.87	0.57
1:J:338:GLN:HB3	1:J:370:LYS:HB3	1.86	0.57
1:M:755:THR:HA	1:M:758:GLU:HB3	1.87	0.57
1:R:504:ARG:NH2	1:R:524:THR:OG1	2.38	0.57
1:R:655:GLN:HG3	1:T:649:ARG:HD3	1.86	0.57
1:V:662:ILE:O	1:V:666:THR:HG23	2.03	0.57
1:BA:227:LEU:HD23	1:BA:229:LEU:HD23	1.85	0.57
1:EA:504:ARG:NH2	1:EA:524:THR:OG1	2.38	0.57
1:GA:338:GLN:HB3	1:GA:370:LYS:HB3	1.86	0.57
1:GA:504:ARG:NH2	1:GA:524:THR:OG1	2.38	0.57
1:HA:662:ILE:O	1:HA:666:THR:HG23	2.03	0.57
1:NA:742:LEU:HD12	1:NA:745:LYS:HB2	1.87	0.57
1:OA:116:LEU:HB2	1:OA:119:THR:HG23	1.87	0.57
1:OA:755:THR:HA	1:OA:758:GLU:HB3	1.87	0.57
1:TA:755:THR:HA	1:TA:758:GLU:HB3	1.87	0.57
1:TA:774:ARG:O	1:TA:777:LEU:HB3	2.04	0.57
1:WA:504:ARG:NH2	1:WA:524:THR:OG1	2.38	0.57
1:WA:755:THR:HA	1:WA:758:GLU:HB3	1.87	0.57
1:ZA:755:THR:HA	1:ZA:758:GLU:HB3	1.87	0.57
1:AB:116:LEU:HB2	1:AB:119:THR:HG23	1.87	0.57
1:BB:504:ARG:NH2	1:BB:524:THR:O	2.37	0.57
1:CB:291:ASP:HB2	1:CB:293:LYS:HE3	1.85	0.57
1:DB:662:ILE:O	1:DB:666:THR:HG23	2.04	0.57
1:EB:64:PRO:O	1:EB:84:ARG:N	2.28	0.57
1:KB:21:GLN:HE22	1:KB:39:ASP:HB2	1.70	0.57
1:KB:742:LEU:HD12	1:KB:745:LYS:HB2	1.87	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:NB:774:ARG:O	1:NB:777:LEU:HB3	2.04	0.57
1:OB:382:LEU:HD21	1:OB:388:ILE:HG23	1.86	0.57
1:QB:382:LEU:HD21	1:QB:388:ILE:HG23	1.86	0.57
1:UB:746:LEU:HD21	1:VB:741:VAL:HG23	1.87	0.57
1:UB:802:LEU:HD21	1:VB:807:ILE:CG1	2.34	0.57
1:VB:382:LEU:HD21	1:VB:388:ILE:HG23	1.86	0.57
1:YB:755:THR:HA	1:YB:758:GLU:HB3	1.87	0.57
1:A:461:ARG:NH1	1:C:494:GLN:HG3	2.20	0.56
1:B:21:GLN:HE22	1:B:39:ASP:HB2	1.70	0.56
1:C:755:THR:HA	1:C:758:GLU:HB3	1.87	0.56
1:E:717:GLU:HB2	1:G:707:LEU:CB	2.34	0.56
1:F:116:LEU:HB2	1:F:119:THR:HG23	1.87	0.56
1:F:504:ARG:NH2	1:F:524:THR:OG1	2.38	0.56
1:N:504:ARG:NH2	1:N:524:THR:O	2.37	0.56
1:P:742:LEU:HD12	1:P:745:LYS:HB2	1.87	0.56
1:P:755:THR:HA	1:P:758:GLU:HB3	1.87	0.56
1:Q:382:LEU:HD21	1:Q:388:ILE:HG23	1.86	0.56
1:W:755:THR:HA	1:W:758:GLU:HB3	1.87	0.56
1:EA:742:LEU:HD12	1:EA:745:LYS:HB2	1.87	0.56
1:IA:774:ARG:O	1:IA:777:LEU:HB3	2.04	0.56
1:LA:382:LEU:HD21	1:LA:388:ILE:HG23	1.86	0.56
1:NA:504:ARG:NH2	1:NA:524:THR:O	2.37	0.56
1:PA:504:ARG:NH2	1:PA:524:THR:O	2.37	0.56
1:QA:742:LEU:HD12	1:QA:745:LYS:HB2	1.87	0.56
1:TA:116:LEU:HB2	1:TA:119:THR:HG23	1.87	0.56
1:UA:116:LEU:HB2	1:UA:119:THR:HG23	1.87	0.56
1:VA:504:ARG:NH2	1:VA:524:THR:OG1	2.38	0.56
1:XA:724:ALA:CB	1:ZA:714:MET:SD	2.93	0.56
1:AB:182:CYS:O	1:AB:190:ARG:N	2.35	0.56
1:GB:17:HIS:NE2	1:GB:99:LEU:O	2.33	0.56
1:IB:227:LEU:HD23	1:IB:229:LEU:HD23	1.85	0.56
1:IB:742:LEU:HD12	1:IB:745:LYS:HB2	1.87	0.56
1:KB:116:LEU:HB2	1:KB:119:THR:HG23	1.87	0.56
1:OB:257:GLU:HB2	1:PB:245:THR:C	2.26	0.56
1:OB:687:ARG:HH12	1:PB:679:ARG:HH12	1.48	0.56
1:OB:764:LYS:CE	1:PB:759:LEU:HD13	2.35	0.56
1:SB:116:LEU:HB2	1:SB:119:THR:HG23	1.87	0.56
1:UB:757:ALA:HB2	1:VB:751:LEU:C	2.25	0.56
1:ZB:768:MET:SD	1:AC:762:VAL:HG23	2.43	0.56
1:AC:755:THR:HA	1:AC:758:GLU:HB3	1.87	0.56
1:A:759:LEU:CG	1:NB:768:MET:SD	2.90	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:279:ARG:HE	1:D:338:GLN:CG	2.19	0.56
1:C:747:LYS:CE	1:E:740:SER:OG	2.50	0.56
1:E:742:LEU:HD12	1:E:745:LYS:HB2	1.87	0.56
1:H:504:ARG:NH2	1:H:524:THR:O	2.37	0.56
1:J:21:GLN:HE22	1:J:39:ASP:HB2	1.70	0.56
1:L:56:ARG:HH11	1:N:128:ASP:HB3	1.70	0.56
1:L:742:LEU:HD12	1:L:745:LYS:HB2	1.87	0.56
1:M:182:CYS:O	1:M:190:ARG:N	2.35	0.56
1:N:227:LEU:HD23	1:N:229:LEU:HD23	1.85	0.56
1:O:338:GLN:HB3	1:O:370:LYS:HB3	1.86	0.56
1:P:21:GLN:HE22	1:P:39:ASP:HB2	1.70	0.56
1:P:116:LEU:HB2	1:P:119:THR:HG23	1.87	0.56
1:P:504:ARG:NH2	1:P:524:THR:O	2.37	0.56
1:V:755:THR:HA	1:V:758:GLU:HB3	1.87	0.56
1:Y:21:GLN:HE22	1:Y:39:ASP:HB2	1.70	0.56
1:DA:338:GLN:HB3	1:DA:370:LYS:HB3	1.86	0.56
1:FA:382:LEU:HD21	1:FA:388:ILE:HG23	1.86	0.56
1:JA:116:LEU:HB2	1:JA:119:THR:HG23	1.87	0.56
1:JA:742:LEU:HD12	1:JA:745:LYS:HB2	1.87	0.56
1:KA:182:CYS:O	1:KA:190:ARG:N	2.35	0.56
1:QA:382:LEU:HD21	1:QA:388:ILE:HG23	1.86	0.56
1:VA:21:GLN:HE22	1:VA:39:ASP:HB2	1.70	0.56
1:XA:116:LEU:HB2	1:XA:119:THR:HG23	1.87	0.56
1:AB:531:THR:OG1	1:AB:586:VAL:O	2.21	0.56
1:AB:742:LEU:HD12	1:AB:745:LYS:HB2	1.87	0.56
1:AB:774:ARG:O	1:AB:777:LEU:HB3	2.04	0.56
1:BB:21:GLN:HE22	1:BB:39:ASP:HB2	1.70	0.56
1:BB:338:GLN:HB3	1:BB:370:LYS:HB3	1.86	0.56
1:CB:21:GLN:HE22	1:CB:39:ASP:HB2	1.70	0.56
1:EB:742:LEU:HD12	1:EB:745:LYS:HB2	1.87	0.56
1:FB:64:PRO:O	1:FB:84:ARG:N	2.28	0.56
1:KB:774:ARG:O	1:KB:777:LEU:HB3	2.04	0.56
1:LB:652:ASP:HB3	1:MB:649:ARG:HH11	1.65	0.56
1:MB:21:GLN:HE22	1:MB:39:ASP:HB2	1.71	0.56
1:MB:64:PRO:O	1:MB:84:ARG:N	2.28	0.56
1:NB:116:LEU:HB2	1:NB:119:THR:HG23	1.87	0.56
1:SB:138:MET:N	1:SB:141:ASP:OD2	2.36	0.56
1:TB:755:THR:HA	1:TB:758:GLU:HB3	1.87	0.56
1:XB:64:PRO:O	1:XB:84:ARG:N	2.28	0.56
1:XB:486:LEU:HD22	1:YB:473:TYR:HB3	1.87	0.56
1:XB:570:ASP:OD2	1:XB:630:GLN:NE2	2.39	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AC:21:GLN:HE22	1:AC:39:ASP:HB2	1.71	0.56
1:A:279:ARG:HD3	1:C:337:LEU:HB3	1.87	0.56
1:A:382:LEU:HD21	1:A:388:ILE:HG23	1.86	0.56
1:A:687:ARG:CZ	1:C:679:ARG:HD2	2.35	0.56
1:A:698:GLU:CB	1:C:690:ARG:CD	2.68	0.56
1:A:728:SER:O	1:C:722:ALA:HB1	1.98	0.56
1:B:777:LEU:O	1:B:781:VAL:HG23	2.06	0.56
1:B:779:LEU:HD22	1:D:773:ALA:CB	2.35	0.56
1:C:12:PRO:HA	1:C:32:PRO:HB3	1.87	0.56
1:C:17:HIS:NE2	1:C:99:LEU:O	2.33	0.56
1:C:21:GLN:HE22	1:C:39:ASP:HB2	1.70	0.56
1:C:570:ASP:OD2	1:C:630:GLN:NE2	2.39	0.56
1:D:32:PRO:O	1:F:77:VAL:CG2	2.53	0.56
1:D:171:ASN:HD22	1:F:233:GLN:HB2	1.70	0.56
1:D:338:GLN:HB3	1:D:370:LYS:HB3	1.86	0.56
1:D:405:THR:CB	1:F:395:THR:HA	2.27	0.56
1:E:64:PRO:O	1:E:84:ARG:N	2.28	0.56
1:E:116:LEU:HB2	1:E:119:THR:HG23	1.87	0.56
1:F:570:ASP:OD2	1:F:630:GLN:NE2	2.39	0.56
1:G:116:LEU:HB2	1:G:119:THR:HG23	1.87	0.56
1:H:12:PRO:HA	1:H:32:PRO:HB3	1.88	0.56
1:H:182:CYS:O	1:H:190:ARG:N	2.35	0.56
1:H:382:LEU:HD21	1:H:388:ILE:HG23	1.86	0.56
1:I:285:LEU:HB2	1:I:315:ARG:HG3	1.88	0.56
1:I:533:ASP:OD2	1:I:587:THR:OG1	2.17	0.56
1:K:116:LEU:HB2	1:K:119:THR:HG23	1.87	0.56
1:K:570:ASP:OD2	1:K:630:GLN:NE2	2.39	0.56
1:L:775:ALA:CB	1:N:770:LEU:HD12	2.36	0.56
1:M:570:ASP:OD2	1:M:630:GLN:NE2	2.39	0.56
1:M:742:LEU:HD12	1:M:745:LYS:HB2	1.87	0.56
1:O:285:LEU:HB2	1:O:315:ARG:HG3	1.88	0.56
1:O:504:ARG:NH2	1:O:524:THR:O	2.37	0.56
1:P:17:HIS:NE2	1:P:99:LEU:O	2.34	0.56
1:P:64:PRO:O	1:P:84:ARG:N	2.28	0.56
1:P:533:ASP:OD2	1:P:587:THR:OG1	2.17	0.56
1:Q:12:PRO:HA	1:Q:32:PRO:HB3	1.87	0.56
1:Q:21:GLN:HE22	1:Q:39:ASP:HB2	1.70	0.56
1:Q:116:LEU:HB2	1:Q:119:THR:HG23	1.87	0.56
1:Q:570:ASP:OD2	1:Q:630:GLN:NE2	2.39	0.56
1:S:12:PRO:HA	1:S:32:PRO:HB3	1.88	0.56
1:S:338:GLN:HB3	1:S:370:LYS:HB3	1.86	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:S:777:LEU:O	1:S:781:VAL:HG23	2.06	0.56
1:T:21:GLN:HE22	1:T:39:ASP:HB2	1.70	0.56
1:T:299:LYS:NZ	1:T:317:GLU:OE2	2.32	0.56
1:T:338:GLN:HB3	1:T:370:LYS:HB3	1.86	0.56
1:T:347:GLU:OE2	1:T:351:HIS:NE2	2.39	0.56
1:V:12:PRO:HA	1:V:32:PRO:HB3	1.88	0.56
1:V:570:ASP:OD2	1:V:630:GLN:NE2	2.39	0.56
1:W:12:PRO:HA	1:W:32:PRO:HB3	1.88	0.56
1:W:570:ASP:OD2	1:W:630:GLN:NE2	2.39	0.56
1:X:116:LEU:HB2	1:X:119:THR:HG23	1.87	0.56
1:X:755:THR:HA	1:X:758:GLU:HB3	1.87	0.56
1:Y:64:PRO:O	1:Y:84:ARG:N	2.28	0.56
1:Y:285:LEU:HB2	1:Y:315:ARG:HG3	1.88	0.56
1:BA:570:ASP:OD2	1:BA:630:GLN:NE2	2.39	0.56
1:CA:21:GLN:HE22	1:CA:39:ASP:HB2	1.71	0.56
1:DA:116:LEU:HB2	1:DA:119:THR:HG23	1.87	0.56
1:DA:755:THR:HA	1:DA:758:GLU:HB3	1.87	0.56
1:EA:12:PRO:HA	1:EA:32:PRO:HB3	1.88	0.56
1:EA:116:LEU:HB2	1:EA:119:THR:HG23	1.87	0.56
1:EA:338:GLN:HB3	1:EA:370:LYS:HB3	1.86	0.56
1:FA:21:GLN:HE22	1:FA:39:ASP:HB2	1.71	0.56
1:GA:755:THR:HA	1:GA:758:GLU:HB3	1.87	0.56
1:HA:12:PRO:HA	1:HA:32:PRO:HB3	1.87	0.56
1:HA:768:MET:HE1	1:JA:763:LYS:HA	1.87	0.56
1:IA:504:ARG:NH2	1:IA:524:THR:OG1	2.38	0.56
1:IA:570:ASP:OD2	1:IA:630:GLN:NE2	2.39	0.56
1:IA:717:GLU:HA	1:KA:707:LEU:HB3	1.85	0.56
1:JA:570:ASP:OD2	1:JA:630:GLN:NE2	2.39	0.56
1:KA:12:PRO:HA	1:KA:32:PRO:HB3	1.87	0.56
1:KA:17:HIS:NE2	1:KA:99:LEU:O	2.33	0.56
1:LA:116:LEU:HB2	1:LA:119:THR:HG23	1.87	0.56
1:LA:570:ASP:OD2	1:LA:630:GLN:NE2	2.39	0.56
1:NA:12:PRO:HA	1:NA:32:PRO:HB3	1.88	0.56
1:NA:570:ASP:OD2	1:NA:630:GLN:NE2	2.39	0.56
1:OA:774:ARG:O	1:OA:777:LEU:HB3	2.04	0.56
1:PA:17:HIS:NE2	1:PA:99:LEU:O	2.33	0.56
1:PA:21:GLN:HE22	1:PA:39:ASP:HB2	1.70	0.56
1:QA:12:PRO:HA	1:QA:32:PRO:HB3	1.88	0.56
1:QA:755:THR:HA	1:QA:758:GLU:HB3	1.87	0.56
1:RA:64:PRO:O	1:RA:84:ARG:N	2.28	0.56
1:RA:742:LEU:HD12	1:RA:745:LYS:HB2	1.87	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:SA:182:CYS:O	1:SA:190:ARG:N	2.35	0.56
1:SA:570:ASP:OD2	1:SA:630:GLN:NE2	2.39	0.56
1:TA:12:PRO:HA	1:TA:32:PRO:HB3	1.88	0.56
1:VA:742:LEU:HD12	1:VA:745:LYS:HB2	1.87	0.56
1:WA:138:MET:N	1:WA:141:ASP:OD2	2.36	0.56
1:WA:382:LEU:HD21	1:WA:388:ILE:HG23	1.86	0.56
1:XA:299:LYS:NZ	1:XA:317:GLU:OE2	2.32	0.56
1:ZA:12:PRO:HA	1:ZA:32:PRO:HB3	1.88	0.56
1:ZA:768:MET:SD	1:BB:759:LEU:CD1	2.94	0.56
1:BB:285:LEU:HB2	1:BB:315:ARG:HG3	1.88	0.56
1:BB:684:ALA:CB	1:CB:675:HIS:CE1	2.87	0.56
1:BB:706:LEU:HG	1:CB:693:ILE:CD1	2.29	0.56
1:CB:742:LEU:HD12	1:CB:745:LYS:HB2	1.87	0.56
1:CB:777:LEU:O	1:CB:781:VAL:HG23	2.06	0.56
1:EB:12:PRO:HA	1:EB:32:PRO:HB3	1.88	0.56
1:EB:21:GLN:HE22	1:EB:39:ASP:HB2	1.70	0.56
1:EB:338:GLN:HB3	1:EB:370:LYS:HB3	1.86	0.56
1:EB:777:LEU:O	1:EB:781:VAL:HG23	2.06	0.56
1:FB:21:GLN:HE22	1:FB:39:ASP:HB2	1.70	0.56
1:FB:116:LEU:HB2	1:FB:119:THR:HG23	1.87	0.56
1:GB:116:LEU:HB2	1:GB:119:THR:HG23	1.87	0.56
1:HB:382:LEU:HD21	1:HB:388:ILE:HG23	1.86	0.56
1:HB:755:THR:HA	1:HB:758:GLU:HB3	1.87	0.56
1:JB:116:LEU:HB2	1:JB:119:THR:HG23	1.87	0.56
1:KB:12:PRO:HA	1:KB:32:PRO:HB3	1.88	0.56
1:KB:64:PRO:O	1:KB:84:ARG:N	2.28	0.56
1:MB:742:LEU:HD12	1:MB:745:LYS:HB2	1.87	0.56
1:PB:21:GLN:HE22	1:PB:39:ASP:HB2	1.70	0.56
1:RB:12:PRO:HA	1:RB:32:PRO:HB3	1.88	0.56
1:RB:382:LEU:HD21	1:RB:388:ILE:HG23	1.86	0.56
1:SB:12:PRO:HA	1:SB:32:PRO:HB3	1.88	0.56
1:TB:12:PRO:HA	1:TB:32:PRO:HB3	1.88	0.56
1:TB:347:GLU:OE2	1:TB:351:HIS:NE2	2.39	0.56
1:TB:570:ASP:OD2	1:TB:630:GLN:NE2	2.39	0.56
1:TB:666:THR:CB	1:UB:660:LEU:HD12	2.36	0.56
1:UB:12:PRO:HA	1:UB:32:PRO:HB3	1.88	0.56
1:UB:182:CYS:O	1:UB:190:ARG:N	2.35	0.56
1:UB:768:MET:HE1	1:VB:762:VAL:O	2.04	0.56
1:UB:802:LEU:HD23	1:VB:807:ILE:HG21	1.85	0.56
1:WB:21:GLN:HE22	1:WB:39:ASP:HB2	1.70	0.56
1:WB:64:PRO:O	1:WB:84:ARG:N	2.28	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:WB:755:THR:HA	1:WB:758:GLU:HB3	1.87	0.56
1:XB:382:LEU:HD21	1:XB:388:ILE:HG23	1.86	0.56
1:YB:742:LEU:HD12	1:YB:745:LYS:HB2	1.87	0.56
1:ZB:388:ILE:HA	1:ZB:456:ARG:HA	1.88	0.56
1:ZB:570:ASP:OD2	1:ZB:630:GLN:NE2	2.39	0.56
1:AC:12:PRO:HA	1:AC:32:PRO:HB3	1.88	0.56
1:AC:285:LEU:HB2	1:AC:315:ARG:HG3	1.88	0.56
1:A:718:SER:OG	1:NB:724:ALA:O	2.23	0.56
1:A:742:LEU:HD12	1:A:745:LYS:HB2	1.87	0.56
1:A:753:ILE:HG23	1:C:745:LYS:N	2.17	0.56
1:C:504:ARG:NH2	1:C:524:THR:OG1	2.38	0.56
1:C:743:GLN:HG3	1:E:734:ARG:NH2	2.13	0.56
1:D:504:ARG:NH2	1:D:524:THR:OG1	2.38	0.56
1:D:742:LEU:HD12	1:D:745:LYS:HB2	1.87	0.56
1:E:12:PRO:HA	1:E:32:PRO:HB3	1.88	0.56
1:E:504:ARG:NH2	1:E:524:THR:OG1	2.38	0.56
1:J:12:PRO:HA	1:J:32:PRO:HB3	1.88	0.56
1:J:777:LEU:O	1:J:781:VAL:HG23	2.06	0.56
1:K:64:PRO:O	1:K:84:ARG:N	2.28	0.56
1:L:285:LEU:HB2	1:L:315:ARG:HG3	1.88	0.56
1:L:777:LEU:O	1:L:781:VAL:HG23	2.06	0.56
1:M:12:PRO:HA	1:M:32:PRO:HB3	1.87	0.56
1:M:116:LEU:HB2	1:M:119:THR:HG23	1.87	0.56
1:R:21:GLN:HE22	1:R:39:ASP:HB2	1.70	0.56
1:R:504:ARG:NH2	1:R:524:THR:O	2.37	0.56
1:T:777:LEU:O	1:T:781:VAL:HG23	2.06	0.56
1:V:285:LEU:HB2	1:V:315:ARG:HG3	1.88	0.56
1:W:21:GLN:HE22	1:W:39:ASP:HB2	1.70	0.56
1:X:299:LYS:NZ	1:X:317:GLU:OE2	2.32	0.56
1:Z:777:LEU:O	1:Z:781:VAL:HG23	2.06	0.56
1:AA:338:GLN:HB3	1:AA:370:LYS:HB3	1.86	0.56
1:BA:17:HIS:NE2	1:BA:99:LEU:O	2.33	0.56
1:BA:285:LEU:HB2	1:BA:315:ARG:HG3	1.88	0.56
1:CA:570:ASP:OD2	1:CA:630:GLN:NE2	2.39	0.56
1:DA:21:GLN:HE22	1:DA:39:ASP:HB2	1.71	0.56
1:DA:138:MET:N	1:DA:141:ASP:OD2	2.36	0.56
1:EA:777:LEU:O	1:EA:781:VAL:HG23	2.06	0.56
1:FA:533:ASP:OD2	1:FA:587:THR:OG1	2.17	0.56
1:FA:755:THR:HA	1:FA:758:GLU:HB3	1.87	0.56
1:HA:21:GLN:HE22	1:HA:39:ASP:HB2	1.71	0.56
1:IA:21:GLN:HE22	1:IA:39:ASP:HB2	1.70	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:IA:116:LEU:HB2	1:IA:119:THR:HG23	1.87	0.56
1:KA:755:THR:HA	1:KA:758:GLU:HB3	1.87	0.56
1:LA:742:LEU:HD12	1:LA:745:LYS:HB2	1.87	0.56
1:MA:570:ASP:OD2	1:MA:630:GLN:NE2	2.39	0.56
1:MA:755:THR:HA	1:MA:758:GLU:HB3	1.87	0.56
1:NA:21:GLN:HE22	1:NA:39:ASP:HB2	1.70	0.56
1:NA:777:LEU:O	1:NA:781:VAL:HG23	2.06	0.56
1:OA:570:ASP:OD2	1:OA:630:GLN:NE2	2.39	0.56
1:PA:338:GLN:HB3	1:PA:370:LYS:HB3	1.86	0.56
1:PA:504:ARG:NH2	1:PA:524:THR:OG1	2.38	0.56
1:QA:777:LEU:O	1:QA:781:VAL:HG23	2.06	0.56
1:RA:570:ASP:OD2	1:RA:630:GLN:NE2	2.39	0.56
1:TA:382:LEU:HD21	1:TA:388:ILE:HG23	1.86	0.56
1:VA:533:ASP:OD2	1:VA:587:THR:OG1	2.17	0.56
1:XA:21:GLN:HE22	1:XA:39:ASP:HB2	1.70	0.56
1:XA:347:GLU:OE2	1:XA:351:HIS:NE2	2.39	0.56
1:YA:338:GLN:HB3	1:YA:370:LYS:HB3	1.86	0.56
1:ZA:285:LEU:HB2	1:ZA:315:ARG:HG3	1.88	0.56
1:ZA:666:THR:HG22	1:BB:657:SER:HB2	1.87	0.56
1:AB:570:ASP:OD2	1:AB:630:GLN:NE2	2.39	0.56
1:BB:116:LEU:HB2	1:BB:119:THR:HG23	1.87	0.56
1:BB:504:ARG:NH2	1:BB:524:THR:OG1	2.38	0.56
1:FB:285:LEU:HB2	1:FB:315:ARG:HG3	1.88	0.56
1:FB:338:GLN:HB3	1:FB:370:LYS:HB3	1.86	0.56
1:GB:570:ASP:OD2	1:GB:630:GLN:NE2	2.39	0.56
1:HB:742:LEU:HD12	1:HB:745:LYS:HB2	1.87	0.56
1:IB:285:LEU:HB2	1:IB:315:ARG:HG3	1.88	0.56
1:IB:570:ASP:OD2	1:IB:630:GLN:NE2	2.39	0.56
1:JB:570:ASP:OD2	1:JB:630:GLN:NE2	2.39	0.56
1:KB:347:GLU:OE2	1:KB:351:HIS:NE2	2.39	0.56
1:LB:285:LEU:HB2	1:LB:315:ARG:HG3	1.88	0.56
1:LB:684:ALA:HB1	1:MB:675:HIS:HB3	1.87	0.56
1:MB:570:ASP:OD2	1:MB:630:GLN:NE2	2.39	0.56
1:OB:116:LEU:HB2	1:OB:119:THR:HG23	1.87	0.56
1:OB:746:LEU:HD12	1:PB:737:GLY:CA	2.36	0.56
1:SB:720:GLY:C	1:TB:711:ALA:HB1	2.25	0.56
1:SB:750:ALA:HB2	1:TB:741:VAL:HG22	1.87	0.56
1:UB:805:GLY:CA	1:VB:808:ARG:HH12	2.19	0.56
1:VB:338:GLN:HB3	1:VB:370:LYS:HB3	1.86	0.56
1:XB:21:GLN:HE22	1:XB:39:ASP:HB2	1.71	0.56
1:XB:533:ASP:OD2	1:XB:587:THR:OG1	2.17	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:YB:504:ARG:NH2	1:YB:524:THR:O	2.37	0.56
1:ZB:753:ILE:HD11	1:AC:748:ALA:HB2	1.88	0.56
1:AC:64:PRO:O	1:AC:84:ARG:N	2.28	0.56
1:AC:570:ASP:OD2	1:AC:630:GLN:NE2	2.39	0.56
1:B:234:ASN:HD21	1:AC:171:ASN:ND2	2.02	0.56
1:B:347:GLU:OE2	1:B:351:HIS:NE2	2.39	0.56
1:D:13:TYR:CE2	1:F:82:ARG:HD3	2.40	0.56
1:D:167:VAL:HG13	1:F:191:VAL:CB	2.32	0.56
1:D:171:ASN:HD21	1:F:234:ASN:CG	2.04	0.56
1:E:570:ASP:OD2	1:E:630:GLN:NE2	2.39	0.56
1:G:64:PRO:O	1:G:84:ARG:N	2.28	0.56
1:I:777:LEU:O	1:I:781:VAL:HG23	2.06	0.56
1:M:17:HIS:NE2	1:M:99:LEU:O	2.33	0.56
1:O:12:PRO:HA	1:O:32:PRO:HB3	1.88	0.56
1:P:777:LEU:O	1:P:781:VAL:HG23	2.06	0.56
1:R:338:GLN:HB3	1:R:370:LYS:HB3	1.86	0.56
1:S:347:GLU:OE2	1:S:351:HIS:NE2	2.39	0.56
1:X:570:ASP:OD2	1:X:630:GLN:NE2	2.39	0.56
1:Z:116:LEU:HB2	1:Z:119:THR:HG23	1.87	0.56
1:EA:285:LEU:HB2	1:EA:315:ARG:HG3	1.88	0.56
1:KA:285:LEU:HB2	1:KA:315:ARG:HG3	1.88	0.56
1:KA:382:LEU:HD21	1:KA:388:ILE:HG23	1.86	0.56
1:KA:570:ASP:OD2	1:KA:630:GLN:NE2	2.39	0.56
1:QA:570:ASP:OD2	1:QA:630:GLN:NE2	2.39	0.56
1:TA:777:LEU:O	1:TA:781:VAL:HG23	2.06	0.56
1:UA:742:LEU:HD12	1:UA:745:LYS:HB2	1.87	0.56
1:WA:12:PRO:HA	1:WA:32:PRO:HB3	1.88	0.56
1:XA:338:GLN:HB3	1:XA:370:LYS:HB3	1.86	0.56
1:XA:728:SER:HB3	1:ZA:718:SER:HB2	1.87	0.56
1:BB:777:LEU:O	1:BB:781:VAL:HG23	2.06	0.56
1:CB:338:GLN:HB3	1:CB:370:LYS:HB3	1.86	0.56
1:DB:570:ASP:OD2	1:DB:630:GLN:NE2	2.39	0.56
1:EB:116:LEU:HB2	1:EB:119:THR:HG23	1.87	0.56
1:EB:504:ARG:NH2	1:EB:524:THR:OG1	2.38	0.56
1:FB:17:HIS:NE2	1:FB:99:LEU:O	2.33	0.56
1:FB:570:ASP:OD2	1:FB:630:GLN:NE2	2.39	0.56
1:JB:504:ARG:NH2	1:JB:524:THR:OG1	2.38	0.56
1:LB:570:ASP:OD2	1:LB:630:GLN:NE2	2.39	0.56
1:NB:138:MET:N	1:NB:141:ASP:OD2	2.36	0.56
1:OB:388:ILE:HA	1:OB:456:ARG:HA	1.88	0.56
1:OB:742:LEU:HD12	1:OB:745:LYS:HB2	1.87	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:OB:777:LEU:O	1:OB:781:VAL:HG23	2.06	0.56
1:QB:21:GLN:HE22	1:QB:39:ASP:HB2	1.70	0.56
1:SB:338:GLN:HB3	1:SB:370:LYS:HB3	1.86	0.56
1:TB:21:GLN:HE22	1:TB:39:ASP:HB2	1.70	0.56
1:UB:735:ILE:HG12	1:VB:726:ALA:HB1	1.86	0.56
1:UB:777:LEU:O	1:UB:781:VAL:HG23	2.06	0.56
1:VB:12:PRO:HA	1:VB:32:PRO:HB3	1.87	0.56
1:VB:680:LEU:CB	1:WB:675:HIS:CE1	2.89	0.56
1:VB:777:LEU:O	1:VB:781:VAL:HG23	2.06	0.56
1:ZB:12:PRO:HA	1:ZB:32:PRO:HB3	1.88	0.56
1:AC:116:LEU:HB2	1:AC:119:THR:HG23	1.88	0.56
1:A:570:ASP:OD2	1:A:630:GLN:NE2	2.39	0.56
1:A:764:LYS:C	1:C:759:LEU:HD12	2.26	0.56
1:B:279:ARG:HH21	1:D:338:GLN:CG	2.18	0.56
1:B:279:ARG:CD	1:D:337:LEU:O	2.53	0.56
1:D:9:ARG:HG3	1:F:23:SER:HA	1.81	0.56
1:G:388:ILE:HA	1:G:456:ARG:HA	1.88	0.56
1:G:504:ARG:NH2	1:G:524:THR:OG1	2.38	0.56
1:G:742:LEU:HD12	1:G:745:LYS:HB2	1.87	0.56
1:K:12:PRO:HA	1:K:32:PRO:HB3	1.87	0.56
1:M:388:ILE:HA	1:M:456:ARG:HA	1.88	0.56
1:N:21:GLN:HE22	1:N:39:ASP:HB2	1.70	0.56
1:N:116:LEU:HB2	1:N:119:THR:HG23	1.87	0.56
1:N:382:LEU:HD21	1:N:388:ILE:HG23	1.86	0.56
1:O:116:LEU:HB2	1:O:119:THR:HG23	1.87	0.56
1:P:12:PRO:HA	1:P:32:PRO:HB3	1.88	0.56
1:R:347:GLU:OE2	1:R:351:HIS:NE2	2.39	0.56
1:R:777:LEU:O	1:R:781:VAL:HG23	2.06	0.56
1:T:388:ILE:HA	1:T:456:ARG:HA	1.88	0.56
1:W:777:LEU:O	1:W:781:VAL:HG23	2.06	0.56
1:Z:285:LEU:HB2	1:Z:315:ARG:HG3	1.88	0.56
1:AA:21:GLN:HE22	1:AA:39:ASP:HB2	1.70	0.56
1:AA:64:PRO:O	1:AA:84:ARG:N	2.28	0.56
1:AA:388:ILE:HA	1:AA:456:ARG:HA	1.88	0.56
1:CA:777:LEU:O	1:CA:781:VAL:HG23	2.06	0.56
1:EA:570:ASP:OD2	1:EA:630:GLN:NE2	2.39	0.56
1:FA:777:LEU:O	1:FA:781:VAL:HG23	2.06	0.56
1:GA:742:LEU:HD12	1:GA:745:LYS:HB2	1.87	0.56
1:MA:21:GLN:HE22	1:MA:39:ASP:HB2	1.70	0.56
1:MA:116:LEU:HB2	1:MA:119:THR:HG23	1.87	0.56
1:MA:793:LYS:HA	1:MA:796:LYS:HB3	1.88	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:PA:570:ASP:OD2	1:PA:630:GLN:NE2	2.39	0.56
1:RA:21:GLN:HE22	1:RA:39:ASP:HB2	1.70	0.56
1:RA:382:LEU:HD21	1:RA:388:ILE:HG23	1.86	0.56
1:RA:774:ARG:O	1:RA:777:LEU:HB3	2.04	0.56
1:SA:12:PRO:HA	1:SA:32:PRO:HB3	1.88	0.56
1:SA:285:LEU:HB2	1:SA:315:ARG:HG3	1.88	0.56
1:SA:338:GLN:HB3	1:SA:370:LYS:HB3	1.86	0.56
1:SA:777:LEU:O	1:SA:781:VAL:HG23	2.06	0.56
1:XA:388:ILE:HA	1:XA:456:ARG:HA	1.88	0.56
1:XA:533:ASP:OD2	1:XA:587:THR:OG1	2.17	0.56
1:XA:570:ASP:OD2	1:XA:630:GLN:NE2	2.39	0.56
1:ZA:504:ARG:NH2	1:ZA:524:THR:OG1	2.38	0.56
1:CB:138:MET:N	1:CB:141:ASP:OD2	2.36	0.56
1:CB:388:ILE:HA	1:CB:456:ARG:HA	1.88	0.56
1:DB:116:LEU:HB2	1:DB:119:THR:HG23	1.87	0.56
1:DB:755:THR:HA	1:DB:758:GLU:HB3	1.87	0.56
1:FB:182:CYS:O	1:FB:190:ARG:N	2.35	0.56
1:FB:388:ILE:HA	1:FB:456:ARG:HA	1.88	0.56
1:FB:742:LEU:HD12	1:FB:745:LYS:HB2	1.87	0.56
1:FB:777:LEU:O	1:FB:781:VAL:HG23	2.06	0.56
1:HB:12:PRO:HA	1:HB:32:PRO:HB3	1.88	0.56
1:JB:21:GLN:HE22	1:JB:39:ASP:HB2	1.70	0.56
1:LB:388:ILE:HA	1:LB:456:ARG:HA	1.88	0.56
1:NB:755:THR:HA	1:NB:758:GLU:HB3	1.87	0.56
1:OB:118:ASN:HD21	1:PB:180:LYS:HB3	1.71	0.56
1:PB:388:ILE:HA	1:PB:456:ARG:HA	1.88	0.56
1:PB:777:LEU:O	1:PB:781:VAL:HG23	2.06	0.56
1:QB:347:GLU:OE2	1:QB:351:HIS:NE2	2.39	0.56
1:RB:793:LYS:HA	1:RB:796:LYS:HB3	1.88	0.56
1:SB:754:GLU:CG	1:TB:744:ALA:CB	2.80	0.56
1:UB:742:LEU:HD12	1:UB:745:LYS:HB2	1.87	0.56
1:YB:116:LEU:HB2	1:YB:119:THR:HG23	1.87	0.56
1:ZB:182:CYS:O	1:ZB:190:ARG:N	2.36	0.56
1:AC:388:ILE:HA	1:AC:456:ARG:HA	1.88	0.56
1:AC:504:ARG:NH2	1:AC:524:THR:OG1	2.38	0.56
1:A:801:ALA:CB	1:C:796:LYS:CB	2.83	0.56
1:A:801:ALA:CB	1:C:796:LYS:HB2	2.36	0.56
1:B:504:ARG:NH2	1:B:524:THR:OG1	2.38	0.56
1:D:138:MET:N	1:D:141:ASP:OD2	2.36	0.56
1:D:570:ASP:OD2	1:D:630:GLN:NE2	2.39	0.56
1:F:777:LEU:O	1:F:781:VAL:HG23	2.06	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:777:LEU:O	1:G:781:VAL:HG23	2.06	0.56
1:H:116:LEU:HB2	1:H:119:THR:HG23	1.87	0.56
1:H:285:LEU:HB2	1:H:315:ARG:HG3	1.88	0.56
1:K:755:THR:HA	1:K:758:GLU:HB3	1.87	0.56
1:K:777:LEU:O	1:K:781:VAL:HG23	2.06	0.56
1:L:21:GLN:HE22	1:L:39:ASP:HB2	1.70	0.56
1:L:388:ILE:HA	1:L:456:ARG:HA	1.88	0.56
1:M:285:LEU:HB2	1:M:315:ARG:HG3	1.88	0.56
1:N:793:LYS:HA	1:N:796:LYS:HB3	1.88	0.56
1:P:570:ASP:OD2	1:P:630:GLN:NE2	2.39	0.56
1:R:64:PRO:O	1:R:84:ARG:N	2.28	0.56
1:S:570:ASP:OD2	1:S:630:GLN:NE2	2.39	0.56
1:S:755:THR:HA	1:S:758:GLU:HB3	1.87	0.56
1:V:21:GLN:HE22	1:V:39:ASP:HB2	1.70	0.56
1:W:64:PRO:O	1:W:84:ARG:N	2.28	0.56
1:X:12:PRO:HA	1:X:32:PRO:HB3	1.87	0.56
1:X:777:LEU:O	1:X:781:VAL:HG23	2.06	0.56
1:Y:570:ASP:OD2	1:Y:630:GLN:NE2	2.39	0.56
1:Y:793:LYS:HA	1:Y:796:LYS:HB3	1.88	0.56
1:Z:382:LEU:HD21	1:Z:388:ILE:HG23	1.86	0.56
1:Z:793:LYS:HA	1:Z:796:LYS:HB3	1.88	0.56
1:AA:793:LYS:HA	1:AA:796:LYS:HB3	1.88	0.56
1:BA:21:GLN:HE22	1:BA:39:ASP:HB2	1.70	0.56
1:CA:504:ARG:NH2	1:CA:524:THR:OG1	2.38	0.56
1:DA:17:HIS:NE2	1:DA:99:LEU:O	2.34	0.56
1:DA:570:ASP:OD2	1:DA:630:GLN:NE2	2.39	0.56
1:FA:382:LEU:HD11	1:FA:388:ILE:HG12	1.88	0.56
1:FA:793:LYS:HA	1:FA:796:LYS:HB3	1.88	0.56
1:GA:21:GLN:HE22	1:GA:39:ASP:HB2	1.70	0.56
1:GA:388:ILE:HA	1:GA:456:ARG:HA	1.88	0.56
1:HA:755:THR:HA	1:HA:758:GLU:HB3	1.87	0.56
1:JA:21:GLN:HE22	1:JA:39:ASP:HB2	1.70	0.56
1:KA:504:ARG:NH2	1:KA:524:THR:OG1	2.38	0.56
1:LA:382:LEU:HD11	1:LA:388:ILE:HG12	1.88	0.56
1:LA:777:LEU:O	1:LA:781:VAL:HG23	2.06	0.56
1:QA:116:LEU:HB2	1:QA:119:THR:HG23	1.87	0.56
1:QA:382:LEU:HD11	1:QA:388:ILE:HG12	1.88	0.56
1:RA:388:ILE:HA	1:RA:456:ARG:HA	1.88	0.56
1:SA:347:GLU:OE2	1:SA:351:HIS:NE2	2.39	0.56
1:SA:388:ILE:HA	1:SA:456:ARG:HA	1.88	0.56
1:SA:742:LEU:HD12	1:SA:745:LYS:HB2	1.87	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:SA:755:THR:HA	1:SA:758:GLU:HB3	1.87	0.56
1:UA:388:ILE:HA	1:UA:456:ARG:HA	1.88	0.56
1:VA:777:LEU:O	1:VA:781:VAL:HG23	2.06	0.56
1:WA:382:LEU:HD11	1:WA:388:ILE:HG12	1.88	0.56
1:XA:742:LEU:HD12	1:XA:745:LYS:HB2	1.87	0.56
1:YA:21:GLN:HE22	1:YA:39:ASP:HB2	1.70	0.56
1:ZA:21:GLN:HE22	1:ZA:39:ASP:HB2	1.70	0.56
1:BB:793:LYS:HA	1:BB:796:LYS:HB3	1.88	0.56
1:CB:793:LYS:HA	1:CB:796:LYS:HB3	1.88	0.56
1:DB:681:GLU:HA	1:EB:675:HIS:CE1	2.41	0.56
1:DB:728:SER:CB	1:EB:718:SER:OG	2.39	0.56
1:EB:347:GLU:OE2	1:EB:351:HIS:NE2	2.39	0.56
1:FB:593:LYS:HA	1:GB:585:SER:HA	1.87	0.56
1:GB:138:MET:N	1:GB:141:ASP:OD2	2.36	0.56
1:HB:382:LEU:HD11	1:HB:388:ILE:HG12	1.88	0.56
1:JB:742:LEU:HD12	1:JB:745:LYS:HB2	1.87	0.56
1:LB:12:PRO:HA	1:LB:32:PRO:HB3	1.88	0.56
1:QB:285:LEU:HB2	1:QB:315:ARG:HG3	1.88	0.56
1:QB:570:ASP:OD2	1:QB:630:GLN:NE2	2.39	0.56
1:RB:116:LEU:HB2	1:RB:119:THR:HG23	1.87	0.56
1:RB:338:GLN:HB3	1:RB:370:LYS:HB3	1.86	0.56
1:RB:755:THR:HA	1:RB:758:GLU:HB3	1.87	0.56
1:SB:64:PRO:O	1:SB:84:ARG:N	2.28	0.56
1:SB:743:GLN:HE21	1:TB:734:ARG:NH2	2.02	0.56
1:UB:570:ASP:OD2	1:UB:630:GLN:NE2	2.39	0.56
1:UB:746:LEU:CD2	1:VB:740:SER:OG	2.53	0.56
1:WB:12:PRO:HA	1:WB:32:PRO:HB3	1.88	0.56
1:WB:285:LEU:HB2	1:WB:315:ARG:HG3	1.88	0.56
1:WB:777:LEU:O	1:WB:781:VAL:HG23	2.06	0.56
1:YB:21:GLN:HE22	1:YB:39:ASP:HB2	1.70	0.56
1:ZB:742:LEU:HD12	1:ZB:745:LYS:HB2	1.87	0.56
1:A:382:LEU:HD11	1:A:388:ILE:HG12	1.88	0.56
1:A:388:ILE:HA	1:A:456:ARG:HA	1.88	0.56
1:A:770:LEU:CG	1:NB:779:LEU:HD21	2.29	0.56
1:B:116:LEU:HB2	1:B:119:THR:HG23	1.87	0.56
1:B:755:THR:HA	1:B:758:GLU:HB3	1.87	0.56
1:C:724:ALA:C	1:E:718:SER:HG	2.09	0.56
1:E:21:GLN:HE22	1:E:39:ASP:HB2	1.70	0.56
1:F:338:GLN:HB3	1:F:370:LYS:HB3	1.86	0.56
1:F:742:LEU:HD12	1:F:745:LYS:HB2	1.87	0.56
1:G:21:GLN:HE22	1:G:39:ASP:HB2	1.70	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:570:ASP:OD2	1:H:630:GLN:NE2	2.39	0.56
1:I:9:ARG:HG2	1:K:24:ASN:ND2	2.21	0.56
1:I:64:PRO:O	1:I:84:ARG:N	2.28	0.56
1:M:338:GLN:HB3	1:M:370:LYS:HB3	1.86	0.56
1:N:388:ILE:HA	1:N:456:ARG:HA	1.88	0.56
1:O:570:ASP:OD2	1:O:630:GLN:NE2	2.39	0.56
1:P:813:ALA:CB	1:R:812:VAL:HA	2.34	0.56
1:Q:755:THR:HA	1:Q:758:GLU:HB3	1.87	0.56
1:R:570:ASP:OD2	1:R:630:GLN:NE2	2.39	0.56
1:V:347:GLU:OE2	1:V:351:HIS:NE2	2.39	0.56
1:W:285:LEU:HB2	1:W:315:ARG:HG3	1.88	0.56
1:X:347:GLU:OE2	1:X:351:HIS:NE2	2.39	0.56
1:Z:388:ILE:HA	1:Z:456:ARG:HA	1.88	0.56
1:AA:285:LEU:HB2	1:AA:315:ARG:HG3	1.88	0.56
1:BA:388:ILE:HA	1:BA:456:ARG:HA	1.88	0.56
1:BA:755:THR:HA	1:BA:758:GLU:HB3	1.87	0.56
1:CA:742:LEU:HD12	1:CA:745:LYS:HB2	1.87	0.56
1:DA:285:LEU:HB2	1:DA:315:ARG:HG3	1.88	0.56
1:HA:777:LEU:O	1:HA:781:VAL:HG23	2.06	0.56
1:KA:793:LYS:HA	1:KA:796:LYS:HB3	1.88	0.56
1:LA:12:PRO:HA	1:LA:32:PRO:HB3	1.88	0.56
1:MA:285:LEU:HB2	1:MA:315:ARG:HG3	1.88	0.56
1:MA:338:GLN:HB3	1:MA:370:LYS:HB3	1.86	0.56
1:QA:285:LEU:HB2	1:QA:315:ARG:HG3	1.88	0.56
1:RA:793:LYS:HA	1:RA:796:LYS:HB3	1.88	0.56
1:TA:138:MET:N	1:TA:141:ASP:OD2	2.36	0.56
1:TA:570:ASP:OD2	1:TA:630:GLN:NE2	2.39	0.56
1:UA:570:ASP:OD2	1:UA:630:GLN:NE2	2.39	0.56
1:YA:570:ASP:OD2	1:YA:630:GLN:NE2	2.39	0.56
1:KB:388:ILE:HA	1:KB:456:ARG:HA	1.88	0.56
1:KB:570:ASP:OD2	1:KB:630:GLN:NE2	2.39	0.56
1:LB:21:GLN:HE22	1:LB:39:ASP:HB2	1.70	0.56
1:MB:720:GLY:HA3	1:NB:711:ALA:CB	2.35	0.56
1:RB:570:ASP:OD2	1:RB:630:GLN:NE2	2.39	0.56
1:SB:285:LEU:HB2	1:SB:315:ARG:HG3	1.88	0.56
1:TB:64:PRO:O	1:TB:84:ARG:N	2.28	0.56
1:TB:285:LEU:HB2	1:TB:315:ARG:HG3	1.88	0.56
1:UB:388:ILE:HA	1:UB:456:ARG:HA	1.88	0.56
1:UB:802:LEU:HD23	1:VB:807:ILE:HG23	1.85	0.56
1:VB:285:LEU:HB2	1:VB:315:ARG:HG3	1.88	0.56
1:VB:347:GLU:OE2	1:VB:351:HIS:NE2	2.39	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:WB:713:SER:OG	1:XB:707:LEU:HD12	2.06	0.56
1:XB:382:LEU:HD11	1:XB:388:ILE:HG12	1.88	0.56
1:XB:777:LEU:O	1:XB:781:VAL:HG23	2.06	0.56
1:ZB:285:LEU:HB2	1:ZB:315:ARG:HG3	1.88	0.56
1:A:116:LEU:HB2	1:A:119:THR:HG23	1.87	0.56
1:A:347:GLU:OE2	1:A:351:HIS:NE2	2.39	0.56
1:A:461:ARG:HH11	1:C:473:TYR:HE2	1.54	0.56
1:B:533:ASP:HB3	1:AC:661:ALA:HB3	1.88	0.56
1:C:798:MET:HB2	1:E:792:ALA:HB2	1.88	0.56
1:D:116:LEU:HB2	1:D:119:THR:HG23	1.87	0.56
1:G:793:LYS:HA	1:G:796:LYS:HB3	1.88	0.56
1:I:382:LEU:HD21	1:I:388:ILE:HG23	1.86	0.56
1:L:116:LEU:HB2	1:L:119:THR:HG23	1.87	0.56
1:L:465:ASN:HD21	1:N:563:SER:HA	1.71	0.56
1:M:777:LEU:O	1:M:781:VAL:HG23	2.06	0.56
1:O:21:GLN:HE22	1:O:39:ASP:HB2	1.71	0.56
1:Q:64:PRO:O	1:Q:84:ARG:N	2.28	0.56
1:Q:742:LEU:HD12	1:Q:745:LYS:HB2	1.87	0.56
1:T:116:LEU:HB2	1:T:119:THR:HG23	1.87	0.56
1:T:755:THR:HA	1:T:758:GLU:HB3	1.87	0.56
1:W:388:ILE:HA	1:W:456:ARG:HA	1.88	0.56
1:W:793:LYS:HA	1:W:796:LYS:HB3	1.88	0.56
1:X:388:ILE:HA	1:X:456:ARG:HA	1.88	0.56
1:Z:347:GLU:OE2	1:Z:351:HIS:NE2	2.39	0.56
1:AA:742:LEU:HD12	1:AA:745:LYS:HB2	1.87	0.56
1:DA:182:CYS:O	1:DA:190:ARG:N	2.36	0.56
1:DA:742:LEU:HD12	1:DA:745:LYS:HB2	1.87	0.56
1:NA:182:CYS:O	1:NA:190:ARG:N	2.35	0.56
1:NA:755:THR:HA	1:NA:758:GLU:HB3	1.87	0.56
1:QA:21:GLN:HE22	1:QA:39:ASP:HB2	1.71	0.56
1:XA:12:PRO:HA	1:XA:32:PRO:HB3	1.88	0.56
1:XA:285:LEU:HB2	1:XA:315:ARG:HG3	1.88	0.56
1:YA:116:LEU:HB2	1:YA:119:THR:HG23	1.87	0.56
1:ZA:347:GLU:OE2	1:ZA:351:HIS:NE2	2.39	0.56
1:CB:774:ARG:O	1:CB:777:LEU:HB3	2.04	0.56
1:DB:777:LEU:O	1:DB:781:VAL:HG23	2.06	0.56
1:DB:793:LYS:HA	1:DB:796:LYS:HB3	1.88	0.56
1:FB:347:GLU:OE2	1:FB:351:HIS:NE2	2.39	0.56
1:FB:755:THR:HA	1:FB:758:GLU:HB3	1.87	0.56
1:GB:21:GLN:HE22	1:GB:39:ASP:HB2	1.70	0.56
1:IB:182:CYS:O	1:IB:190:ARG:N	2.35	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:JB:793:LYS:HA	1:JB:796:LYS:HB3	1.88	0.56
1:KB:504:ARG:NH2	1:KB:524:THR:OG1	2.38	0.56
1:LB:64:PRO:O	1:LB:84:ARG:N	2.28	0.56
1:NB:64:PRO:O	1:NB:84:ARG:N	2.28	0.56
1:OB:461:ARG:HD2	1:PB:420:PRO:HB3	1.88	0.56
1:OB:570:ASP:OD2	1:OB:630:GLN:NE2	2.39	0.56
1:PB:285:LEU:HB2	1:PB:315:ARG:HG3	1.88	0.56
1:RB:17:HIS:NE2	1:RB:99:LEU:O	2.33	0.56
1:SB:182:CYS:O	1:SB:190:ARG:N	2.35	0.56
1:VB:388:ILE:HA	1:VB:456:ARG:HA	1.88	0.56
1:WB:746:LEU:HD13	1:XB:737:GLY:CA	2.36	0.56
1:WB:793:LYS:HA	1:WB:796:LYS:HB3	1.88	0.56
1:XB:461:ARG:NH1	1:YB:473:TYR:CE2	2.74	0.56
1:XB:742:LEU:HD12	1:XB:745:LYS:HB2	1.87	0.56
1:AC:347:GLU:OE2	1:AC:351:HIS:NE2	2.39	0.56
1:A:732:ALA:O	1:C:726:ALA:HB1	2.06	0.56
1:B:285:LEU:HB2	1:B:315:ARG:HG3	1.88	0.56
1:B:742:LEU:HD12	1:B:745:LYS:HB2	1.87	0.56
1:C:793:LYS:HA	1:C:796:LYS:HB3	1.88	0.56
1:D:21:GLN:HE22	1:D:39:ASP:HB2	1.70	0.56
1:D:755:THR:HA	1:D:758:GLU:HB3	1.87	0.56
1:D:777:LEU:O	1:D:781:VAL:HG23	2.06	0.56
1:I:570:ASP:OD2	1:I:630:GLN:NE2	2.39	0.56
1:N:285:LEU:HB2	1:N:315:ARG:HG3	1.88	0.56
1:O:182:CYS:O	1:O:190:ARG:N	2.35	0.56
1:O:504:ARG:NH2	1:O:524:THR:OG1	2.38	0.56
1:Q:388:ILE:HA	1:Q:456:ARG:HA	1.88	0.56
1:Q:793:LYS:HA	1:Q:796:LYS:HB3	1.88	0.56
1:R:595:SER:HB2	1:T:580:ARG:NH1	2.20	0.56
1:S:388:ILE:HA	1:S:456:ARG:HA	1.88	0.56
1:S:533:ASP:OD2	1:S:587:THR:OG1	2.17	0.56
1:T:182:CYS:O	1:T:190:ARG:N	2.35	0.56
1:Z:570:ASP:OD2	1:Z:630:GLN:NE2	2.39	0.56
1:CA:755:THR:HA	1:CA:758:GLU:HB3	1.87	0.56
1:CA:793:LYS:HA	1:CA:796:LYS:HB3	1.88	0.56
1:EA:504:ARG:NH2	1:EA:524:THR:O	2.37	0.56
1:GA:116:LEU:HB2	1:GA:119:THR:HG23	1.87	0.56
1:GA:570:ASP:OD2	1:GA:630:GLN:NE2	2.39	0.56
1:GA:758:GLU:O	1:GA:762:VAL:HG22	2.06	0.56
1:HA:758:GLU:O	1:HA:762:VAL:HG22	2.06	0.56
1:IA:383:ASP:HB3	1:KA:396:GLY:C	2.25	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:IA:742:LEU:HD12	1:IA:745:LYS:HB2	1.87	0.56
1:JA:338:GLN:HB3	1:JA:370:LYS:HB3	1.86	0.56
1:KA:777:LEU:O	1:KA:781:VAL:HG23	2.06	0.56
1:NA:388:ILE:HA	1:NA:456:ARG:HA	1.88	0.56
1:NA:727:GLU:HA	1:NA:730:ALA:HB3	1.89	0.56
1:OA:727:GLU:HA	1:OA:730:ALA:HB3	1.89	0.56
1:OA:742:LEU:HD12	1:OA:745:LYS:HB2	1.87	0.56
1:OA:793:LYS:HA	1:OA:796:LYS:HB3	1.88	0.56
1:PA:388:ILE:HA	1:PA:456:ARG:HA	1.88	0.56
1:UA:347:GLU:OE2	1:UA:351:HIS:NE2	2.39	0.56
1:WA:758:GLU:O	1:WA:762:VAL:HG22	2.06	0.56
1:ZA:182:CYS:O	1:ZA:190:ARG:N	2.35	0.56
1:AB:12:PRO:HA	1:AB:32:PRO:HB3	1.88	0.56
1:CB:116:LEU:HB2	1:CB:119:THR:HG23	1.87	0.56
1:CB:755:THR:HA	1:CB:758:GLU:HB3	1.87	0.56
1:EB:285:LEU:HB2	1:EB:315:ARG:HG3	1.88	0.56
1:EB:758:GLU:O	1:EB:762:VAL:HG22	2.07	0.56
1:FB:461:ARG:HH11	1:GB:494:GLN:HG3	1.65	0.56
1:GB:388:ILE:HA	1:GB:456:ARG:HA	1.88	0.56
1:HB:570:ASP:OD2	1:HB:630:GLN:NE2	2.39	0.56
1:IB:758:GLU:O	1:IB:762:VAL:HG22	2.06	0.56
1:IB:793:LYS:HA	1:IB:796:LYS:HB3	1.88	0.56
1:LB:382:LEU:HD11	1:LB:388:ILE:HG12	1.88	0.56
1:LB:777:LEU:O	1:LB:781:VAL:HG23	2.06	0.56
1:MB:504:ARG:NH2	1:MB:524:THR:OG1	2.38	0.56
1:OB:382:LEU:HD11	1:OB:388:ILE:HG12	1.88	0.56
1:OB:755:THR:HA	1:OB:758:GLU:HB3	1.87	0.56
1:OB:793:LYS:HA	1:OB:796:LYS:HB3	1.88	0.56
1:PB:727:GLU:HA	1:PB:730:ALA:HB3	1.88	0.56
1:QB:12:PRO:HA	1:QB:32:PRO:HB3	1.88	0.56
1:RB:21:GLN:HE22	1:RB:39:ASP:HB2	1.71	0.56
1:RB:742:LEU:HD12	1:RB:745:LYS:HB2	1.87	0.56
1:RB:777:LEU:O	1:RB:781:VAL:HG23	2.06	0.56
1:VB:570:ASP:OD2	1:VB:630:GLN:NE2	2.39	0.56
1:WB:570:ASP:OD2	1:WB:630:GLN:NE2	2.39	0.56
1:ZB:64:PRO:O	1:ZB:84:ARG:N	2.28	0.56
1:ZB:338:GLN:HB3	1:ZB:370:LYS:HB3	1.86	0.56
1:ZB:755:THR:HA	1:ZB:758:GLU:HB3	1.87	0.56
1:AC:382:LEU:HD11	1:AC:388:ILE:HG12	1.88	0.56
1:AC:793:LYS:HA	1:AC:796:LYS:HB3	1.88	0.56
1:C:793:LYS:NZ	1:E:785:GLN:HE21	2.03	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:658:VAL:HG22	1:F:535:ALA:CA	2.25	0.55
1:D:758:GLU:O	1:D:762:VAL:HG22	2.07	0.55
1:F:347:GLU:OE2	1:F:351:HIS:NE2	2.39	0.55
1:F:755:THR:HA	1:F:758:GLU:HB3	1.87	0.55
1:F:793:LYS:HA	1:F:796:LYS:HB3	1.88	0.55
1:H:347:GLU:OE2	1:H:351:HIS:NE2	2.39	0.55
1:H:382:LEU:HD11	1:H:388:ILE:HG12	1.88	0.55
1:I:727:GLU:HA	1:I:730:ALA:HB3	1.89	0.55
1:K:742:LEU:HD12	1:K:745:LYS:HB2	1.87	0.55
1:K:793:LYS:HA	1:K:796:LYS:HB3	1.88	0.55
1:L:95:ASP:HB2	1:N:85:HIS:CE1	2.40	0.55
1:L:758:GLU:O	1:L:762:VAL:HG22	2.06	0.55
1:M:504:ARG:NH2	1:M:524:THR:OG1	2.38	0.55
1:N:755:THR:HA	1:N:758:GLU:HB3	1.87	0.55
1:Q:338:GLN:HB3	1:Q:370:LYS:HB3	1.86	0.55
1:S:504:ARG:NH2	1:S:524:THR:OG1	2.38	0.55
1:T:742:LEU:HD12	1:T:745:LYS:HB2	1.87	0.55
1:V:777:LEU:O	1:V:781:VAL:HG23	2.06	0.55
1:W:504:ARG:NH2	1:W:524:THR:OG1	2.38	0.55
1:X:382:LEU:HD11	1:X:388:ILE:HG12	1.88	0.55
1:AA:755:THR:HA	1:AA:758:GLU:HB3	1.87	0.55
1:CA:116:LEU:HB2	1:CA:119:THR:HG23	1.87	0.55
1:CA:347:GLU:OE2	1:CA:351:HIS:NE2	2.39	0.55
1:DA:12:PRO:HA	1:DA:32:PRO:HB3	1.88	0.55
1:FA:116:LEU:HB2	1:FA:119:THR:HG23	1.87	0.55
1:GA:285:LEU:HB2	1:GA:315:ARG:HG3	1.88	0.55
1:HA:570:ASP:OD2	1:HA:630:GLN:NE2	2.39	0.55
1:IA:793:LYS:HA	1:IA:796:LYS:HB3	1.88	0.55
1:KA:382:LEU:HD11	1:KA:388:ILE:HG12	1.88	0.55
1:KA:758:GLU:O	1:KA:762:VAL:HG22	2.06	0.55
1:LA:285:LEU:HB2	1:LA:315:ARG:HG3	1.88	0.55
1:LA:755:THR:HA	1:LA:758:GLU:HB3	1.87	0.55
1:LA:793:LYS:HA	1:LA:796:LYS:HB3	1.88	0.55
1:MA:504:ARG:NH2	1:MA:524:THR:OG1	2.38	0.55
1:MA:777:LEU:O	1:MA:781:VAL:HG23	2.06	0.55
1:NA:285:LEU:HB2	1:NA:315:ARG:HG3	1.88	0.55
1:OA:758:GLU:O	1:OA:762:VAL:HG22	2.07	0.55
1:OA:777:LEU:O	1:OA:781:VAL:HG23	2.06	0.55
1:PA:12:PRO:HA	1:PA:32:PRO:HB3	1.87	0.55
1:QA:727:GLU:HA	1:QA:730:ALA:HB3	1.89	0.55
1:RA:382:LEU:HD11	1:RA:388:ILE:HG12	1.88	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:RA:504:ARG:NH2	1:RA:524:THR:OG1	2.38	0.55
1:UA:793:LYS:HA	1:UA:796:LYS:HB3	1.88	0.55
1:VA:347:GLU:OE2	1:VA:351:HIS:NE2	2.39	0.55
1:WA:793:LYS:HA	1:WA:796:LYS:HB3	1.88	0.55
1:XA:758:GLU:O	1:XA:762:VAL:HG22	2.06	0.55
1:AB:279:ARG:HD3	1:OB:337:LEU:HD13	1.86	0.55
1:BB:673:ALA:HB1	1:CB:664:ILE:CD1	2.37	0.55
1:BB:758:GLU:O	1:BB:762:VAL:HG22	2.06	0.55
1:CB:570:ASP:OD2	1:CB:630:GLN:NE2	2.39	0.55
1:DB:742:LEU:HD12	1:DB:745:LYS:HB2	1.87	0.55
1:EB:570:ASP:OD2	1:EB:630:GLN:NE2	2.39	0.55
1:FB:641:GLN:HA	1:GB:577:SER:CA	2.35	0.55
1:HB:793:LYS:HA	1:HB:796:LYS:HB3	1.88	0.55
1:IB:388:ILE:HA	1:IB:456:ARG:HA	1.88	0.55
1:JB:64:PRO:O	1:JB:84:ARG:N	2.28	0.55
1:LB:116:LEU:HB2	1:LB:119:THR:HG23	1.87	0.55
1:LB:464:HIS:NE2	1:MB:469:GLN:HG2	2.20	0.55
1:LB:728:SER:CB	1:MB:719:THR:CA	2.78	0.55
1:MB:116:LEU:HB2	1:MB:119:THR:HG23	1.87	0.55
1:PB:382:LEU:HD11	1:PB:388:ILE:HG12	1.88	0.55
1:PB:570:ASP:OD2	1:PB:630:GLN:NE2	2.39	0.55
1:PB:793:LYS:HA	1:PB:796:LYS:HB3	1.88	0.55
1:QB:727:GLU:HA	1:QB:730:ALA:HB3	1.89	0.55
1:SB:388:ILE:HA	1:SB:456:ARG:HA	1.88	0.55
1:TB:758:GLU:O	1:TB:762:VAL:HG22	2.06	0.55
1:UB:731:GLU:HG2	1:VB:722:ALA:C	2.26	0.55
1:WB:347:GLU:OE2	1:WB:351:HIS:NE2	2.39	0.55
1:XB:727:GLU:HA	1:XB:730:ALA:HB3	1.88	0.55
1:YB:777:LEU:O	1:YB:781:VAL:HG23	2.06	0.55
1:ZB:21:GLN:HE22	1:ZB:39:ASP:HB2	1.71	0.55
1:ZB:116:LEU:HB2	1:ZB:119:THR:HG23	1.87	0.55
1:ZB:658:VAL:HG13	1:AC:534:HIS:HB2	1.88	0.55
1:A:698:GLU:HB2	1:C:690:ARG:HD3	1.88	0.55
1:A:770:LEU:HA	1:NB:779:LEU:HD13	1.88	0.55
1:B:388:ILE:HA	1:B:456:ARG:HA	1.88	0.55
1:C:285:LEU:HB2	1:C:315:ARG:HG3	1.88	0.55
1:C:382:LEU:HD11	1:C:388:ILE:HG12	1.88	0.55
1:E:779:LEU:HD11	1:G:770:LEU:HA	1.88	0.55
1:F:17:HIS:NE2	1:F:99:LEU:O	2.33	0.55
1:F:382:LEU:HD11	1:F:388:ILE:HG12	1.88	0.55
1:H:755:THR:HA	1:H:758:GLU:HB3	1.87	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:793:LYS:HA	1:H:796:LYS:HB3	1.88	0.55
1:I:388:ILE:HA	1:I:456:ARG:HA	1.88	0.55
1:J:116:LEU:HB2	1:J:119:THR:HG23	1.87	0.55
1:L:504:ARG:NH2	1:L:524:THR:OG1	2.38	0.55
1:N:382:LEU:HD11	1:N:388:ILE:HG12	1.88	0.55
1:N:570:ASP:OD2	1:N:630:GLN:NE2	2.39	0.55
1:N:742:LEU:HD12	1:N:745:LYS:HB2	1.87	0.55
1:P:388:ILE:HA	1:P:456:ARG:HA	1.88	0.55
1:P:758:GLU:O	1:P:762:VAL:HG22	2.07	0.55
1:R:138:MET:N	1:R:141:ASP:OD2	2.36	0.55
1:V:793:LYS:HA	1:V:796:LYS:HB3	1.88	0.55
1:W:347:GLU:OE2	1:W:351:HIS:NE2	2.39	0.55
1:W:382:LEU:HD11	1:W:388:ILE:HG12	1.88	0.55
1:W:758:GLU:O	1:W:762:VAL:HG22	2.06	0.55
1:X:742:LEU:HD12	1:X:745:LYS:HB2	1.87	0.55
1:Y:727:GLU:HA	1:Y:730:ALA:HB3	1.88	0.55
1:Z:21:GLN:HE22	1:Z:39:ASP:HB2	1.70	0.55
1:Z:382:LEU:HD11	1:Z:388:ILE:HG12	1.88	0.55
1:Z:727:GLU:HA	1:Z:730:ALA:HB3	1.89	0.55
1:AA:347:GLU:OE2	1:AA:351:HIS:NE2	2.39	0.55
1:AA:382:LEU:HD11	1:AA:388:ILE:HG12	1.88	0.55
1:EA:793:LYS:HA	1:EA:796:LYS:HB3	1.88	0.55
1:FA:12:PRO:HA	1:FA:32:PRO:HB3	1.88	0.55
1:GA:793:LYS:HA	1:GA:796:LYS:HB3	1.88	0.55
1:IA:12:PRO:HA	1:IA:32:PRO:HB3	1.88	0.55
1:IA:138:MET:N	1:IA:141:ASP:OD2	2.36	0.55
1:IA:717:GLU:CB	1:KA:707:LEU:HD13	2.36	0.55
1:JA:755:THR:HA	1:JA:758:GLU:HB3	1.87	0.55
1:MA:388:ILE:HA	1:MA:456:ARG:HA	1.88	0.55
1:OA:21:GLN:HE22	1:OA:39:ASP:HB2	1.70	0.55
1:OA:388:ILE:HA	1:OA:456:ARG:HA	1.88	0.55
1:PA:758:GLU:O	1:PA:762:VAL:HG22	2.06	0.55
1:RA:116:LEU:HB2	1:RA:119:THR:HG23	1.87	0.55
1:RA:777:LEU:O	1:RA:781:VAL:HG23	2.06	0.55
1:WA:570:ASP:OD2	1:WA:630:GLN:NE2	2.39	0.55
1:XA:755:THR:HA	1:XA:758:GLU:HB3	1.87	0.55
1:YA:504:ARG:NH2	1:YA:524:THR:OG1	2.38	0.55
1:ZA:570:ASP:OD2	1:ZA:630:GLN:NE2	2.39	0.55
1:ZA:777:LEU:O	1:ZA:781:VAL:HG23	2.06	0.55
1:AB:533:ASP:OD2	1:AB:587:THR:OG1	2.17	0.55
1:AB:755:THR:HA	1:AB:758:GLU:HB3	1.87	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AB:777:LEU:O	1:AB:781:VAL:HG23	2.06	0.55
1:DB:347:GLU:OE2	1:DB:351:HIS:NE2	2.39	0.55
1:FB:651:ARG:NE	1:GB:536:ARG:HH12	2.04	0.55
1:GB:755:THR:HA	1:GB:758:GLU:HB3	1.87	0.55
1:GB:793:LYS:HA	1:GB:796:LYS:HB3	1.88	0.55
1:HB:21:GLN:HE22	1:HB:39:ASP:HB2	1.70	0.55
1:HB:285:LEU:HB2	1:HB:315:ARG:HG3	1.88	0.55
1:IB:727:GLU:HA	1:IB:730:ALA:HB3	1.89	0.55
1:JB:727:GLU:HA	1:JB:730:ALA:HB3	1.89	0.55
1:LB:758:GLU:O	1:LB:762:VAL:HG22	2.07	0.55
1:MB:758:GLU:O	1:MB:762:VAL:HG22	2.07	0.55
1:NB:388:ILE:HA	1:NB:456:ARG:HA	1.88	0.55
1:OB:12:PRO:HA	1:OB:32:PRO:HB3	1.87	0.55
1:OB:381:PRO:HB2	1:PB:391:GLN:CD	2.27	0.55
1:OB:768:MET:HE3	1:PB:763:LYS:CA	2.36	0.55
1:PB:504:ARG:NH2	1:PB:524:THR:OG1	2.38	0.55
1:RB:702:ALA:CB	1:SB:693:ILE:CG2	2.81	0.55
1:RB:739:GLY:CA	1:SB:734:ARG:HH22	2.19	0.55
1:SB:570:ASP:OD2	1:SB:630:GLN:NE2	2.39	0.55
1:TB:116:LEU:HB2	1:TB:119:THR:HG23	1.87	0.55
1:UB:285:LEU:HB2	1:UB:315:ARG:HG3	1.88	0.55
1:UB:746:LEU:HD13	1:VB:737:GLY:O	2.07	0.55
1:UB:746:LEU:HD22	1:VB:741:VAL:HG23	1.88	0.55
1:WB:116:LEU:HB2	1:WB:119:THR:HG23	1.88	0.55
1:YB:758:GLU:O	1:YB:762:VAL:HG22	2.06	0.55
1:A:707:LEU:HB3	1:NB:717:GLU:CA	2.35	0.55
1:B:329:GLN:NE2	1:D:394:LYS:CG	2.63	0.55
1:B:382:LEU:HD11	1:B:388:ILE:HG12	1.88	0.55
1:B:707:LEU:HD13	1:AC:717:GLU:HG3	1.87	0.55
1:D:12:PRO:CG	1:F:81:VAL:C	2.66	0.55
1:F:758:GLU:O	1:F:762:VAL:HG22	2.06	0.55
1:G:727:GLU:HA	1:G:730:ALA:HB3	1.89	0.55
1:G:798:MET:SD	1:I:795:PHE:CD2	3.00	0.55
1:I:52:THR:HG21	1:K:85:HIS:HD2	1.72	0.55
1:J:570:ASP:OD2	1:J:630:GLN:NE2	2.39	0.55
1:L:382:LEU:HD11	1:L:388:ILE:HG12	1.88	0.55
1:N:727:GLU:HA	1:N:730:ALA:HB3	1.89	0.55
1:O:758:GLU:O	1:O:762:VAL:HG22	2.07	0.55
1:Q:727:GLU:HA	1:Q:730:ALA:HB3	1.88	0.55
1:T:570:ASP:OD2	1:T:630:GLN:NE2	2.39	0.55
1:T:727:GLU:HA	1:T:730:ALA:HB3	1.89	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Y:116:LEU:HB2	1:Y:119:THR:HG23	1.87	0.55
1:Z:755:THR:HA	1:Z:758:GLU:HB3	1.87	0.55
1:BA:777:LEU:O	1:BA:781:VAL:HG23	2.06	0.55
1:CA:138:MET:N	1:CA:141:ASP:OD2	2.36	0.55
1:EA:21:GLN:HE22	1:EA:39:ASP:HB2	1.70	0.55
1:FA:347:GLU:OE2	1:FA:351:HIS:NE2	2.39	0.55
1:FA:758:GLU:O	1:FA:762:VAL:HG22	2.07	0.55
1:IA:55:PRO:CG	1:KA:86:ALA:O	2.54	0.55
1:IA:169:LYS:HZ2	1:KA:194:GLU:HB2	1.72	0.55
1:IA:388:ILE:HA	1:IA:456:ARG:HA	1.88	0.55
1:IA:484:PRO:O	1:KA:473:TYR:CD1	2.59	0.55
1:IA:595:SER:OG	1:KA:580:ARG:NH1	2.35	0.55
1:LA:758:GLU:O	1:LA:762:VAL:HG22	2.06	0.55
1:MA:758:GLU:O	1:MA:762:VAL:HG22	2.06	0.55
1:NA:116:LEU:HB2	1:NA:119:THR:HG23	1.87	0.55
1:NA:382:LEU:HD11	1:NA:388:ILE:HG12	1.88	0.55
1:OA:12:PRO:HA	1:OA:32:PRO:HB3	1.88	0.55
1:PA:116:LEU:HB2	1:PA:119:THR:HG23	1.87	0.55
1:RA:755:THR:HA	1:RA:758:GLU:HB3	1.87	0.55
1:SA:504:ARG:NH2	1:SA:524:THR:OG1	2.38	0.55
1:SA:706:LEU:HD21	1:UA:693:ILE:CG2	2.17	0.55
1:UA:21:GLN:HE22	1:UA:39:ASP:HB2	1.70	0.55
1:WA:777:LEU:O	1:WA:781:VAL:HG23	2.06	0.55
1:YA:12:PRO:HA	1:YA:32:PRO:HB3	1.88	0.55
1:ZA:388:ILE:HA	1:ZA:456:ARG:HA	1.88	0.55
1:AB:21:GLN:HE22	1:AB:39:ASP:HB2	1.70	0.55
1:AB:522:PHE:HB3	1:OB:573:LYS:HE2	1.88	0.55
1:AB:793:LYS:HA	1:AB:796:LYS:HB3	1.88	0.55
1:BB:570:ASP:OD2	1:BB:630:GLN:NE2	2.39	0.55
1:CB:12:PRO:HA	1:CB:32:PRO:HB3	1.88	0.55
1:CB:285:LEU:HB2	1:CB:315:ARG:HG3	1.88	0.55
1:DB:21:GLN:HE22	1:DB:39:ASP:HB2	1.70	0.55
1:DB:64:PRO:O	1:DB:84:ARG:N	2.28	0.55
1:HB:116:LEU:HB2	1:HB:119:THR:HG23	1.87	0.55
1:KB:382:LEU:HD11	1:KB:388:ILE:HG12	1.88	0.55
1:MB:777:LEU:O	1:MB:781:VAL:HG23	2.06	0.55
1:NB:12:PRO:HA	1:NB:32:PRO:HB3	1.88	0.55
1:NB:742:LEU:HD12	1:NB:745:LYS:HB2	1.87	0.55
1:NB:793:LYS:HA	1:NB:796:LYS:HB3	1.88	0.55
1:QB:777:LEU:O	1:QB:781:VAL:HG23	2.06	0.55
1:SB:21:GLN:HE22	1:SB:39:ASP:HB2	1.70	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:SB:777:LEU:O	1:SB:781:VAL:HG23	2.06	0.55
1:TB:639:ASP:OD2	1:UB:577:SER:HB2	2.06	0.55
1:UB:116:LEU:HB2	1:UB:119:THR:HG23	1.87	0.55
1:UB:382:LEU:HD11	1:UB:388:ILE:HG12	1.88	0.55
1:UB:755:THR:HA	1:UB:758:GLU:HB3	1.87	0.55
1:VB:504:ARG:NH2	1:VB:524:THR:OG1	2.38	0.55
1:YB:182:CYS:O	1:YB:190:ARG:N	2.35	0.55
1:YB:388:ILE:HA	1:YB:456:ARG:HA	1.88	0.55
1:AC:742:LEU:HD12	1:AC:745:LYS:HB2	1.87	0.55
1:A:21:GLN:HE22	1:A:39:ASP:HB2	1.70	0.55
1:A:138:MET:N	1:A:141:ASP:OD2	2.36	0.55
1:A:758:GLU:O	1:A:762:VAL:HG22	2.07	0.55
1:B:279:ARG:HE	1:D:338:GLN:CA	2.20	0.55
1:B:570:ASP:OD2	1:B:630:GLN:NE2	2.39	0.55
1:B:665:THR:CG2	1:D:589:ASP:CB	2.78	0.55
1:C:720:GLY:HA3	1:E:711:ALA:CB	2.35	0.55
1:D:275:THR:CG2	1:F:296:LEU:CB	2.82	0.55
1:D:388:ILE:HA	1:D:456:ARG:HA	1.88	0.55
1:F:727:GLU:HA	1:F:730:ALA:HB3	1.88	0.55
1:G:755:THR:HA	1:G:758:GLU:HB3	1.87	0.55
1:G:758:GLU:O	1:G:762:VAL:HG22	2.07	0.55
1:G:786:GLN:HB3	1:I:781:VAL:HG13	1.87	0.55
1:J:727:GLU:HA	1:J:730:ALA:HB3	1.89	0.55
1:P:285:LEU:HB2	1:P:315:ARG:HG3	1.88	0.55
1:Q:777:LEU:O	1:Q:781:VAL:HG23	2.06	0.55
1:T:12:PRO:HA	1:T:32:PRO:HB3	1.88	0.55
1:Y:382:LEU:HD11	1:Y:388:ILE:HG12	1.88	0.55
1:Z:12:PRO:HA	1:Z:32:PRO:HB3	1.88	0.55
1:AA:116:LEU:HB2	1:AA:119:THR:HG23	1.87	0.55
1:BA:758:GLU:O	1:BA:762:VAL:HG22	2.06	0.55
1:CA:12:PRO:HA	1:CA:32:PRO:HB3	1.88	0.55
1:CA:758:GLU:O	1:CA:762:VAL:HG22	2.06	0.55
1:EA:388:ILE:HA	1:EA:456:ARG:HA	1.88	0.55
1:FA:17:HIS:NE2	1:FA:99:LEU:O	2.33	0.55
1:GA:777:LEU:O	1:GA:781:VAL:HG23	2.06	0.55
1:IA:755:THR:HA	1:IA:758:GLU:HB3	1.87	0.55
1:JA:504:ARG:NH2	1:JA:524:THR:OG1	2.38	0.55
1:JA:793:LYS:HA	1:JA:796:LYS:HB3	1.88	0.55
1:LA:21:GLN:HE22	1:LA:39:ASP:HB2	1.70	0.55
1:RA:285:LEU:HB2	1:RA:315:ARG:HG3	1.88	0.55
1:RA:533:ASP:OD2	1:RA:587:THR:OG1	2.17	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:TA:742:LEU:HD12	1:TA:745:LYS:HB2	1.87	0.55
1:TA:793:LYS:HA	1:TA:796:LYS:HB3	1.88	0.55
1:VA:758:GLU:O	1:VA:762:VAL:HG22	2.07	0.55
1:YA:64:PRO:O	1:YA:84:ARG:N	2.28	0.55
1:YA:182:CYS:O	1:YA:190:ARG:N	2.36	0.55
1:ZA:793:LYS:HA	1:ZA:796:LYS:HB3	1.88	0.55
1:CB:727:GLU:HA	1:CB:730:ALA:HB3	1.89	0.55
1:CB:758:GLU:O	1:CB:762:VAL:HG22	2.06	0.55
1:FB:12:PRO:HA	1:FB:32:PRO:HB3	1.88	0.55
1:HB:777:LEU:O	1:HB:781:VAL:HG23	2.06	0.55
1:IB:21:GLN:HE22	1:IB:39:ASP:HB2	1.70	0.55
1:IB:777:LEU:O	1:IB:781:VAL:HG23	2.06	0.55
1:KB:793:LYS:HA	1:KB:796:LYS:HB3	1.88	0.55
1:MB:388:ILE:HA	1:MB:456:ARG:HA	1.88	0.55
1:NB:570:ASP:OD2	1:NB:630:GLN:NE2	2.39	0.55
1:NB:758:GLU:O	1:NB:762:VAL:HG22	2.07	0.55
1:OB:21:GLN:HE22	1:OB:39:ASP:HB2	1.70	0.55
1:QB:116:LEU:HB2	1:QB:119:THR:HG23	1.88	0.55
1:QB:504:ARG:NH2	1:QB:524:THR:OG1	2.38	0.55
1:TB:793:LYS:HA	1:TB:796:LYS:HB3	1.88	0.55
1:UB:793:LYS:HA	1:UB:796:LYS:HB3	1.88	0.55
1:VB:687:ARG:HH12	1:WB:679:ARG:HH11	1.46	0.55
1:VB:732:ALA:CB	1:WB:726:ALA:HB2	2.36	0.55
1:A:777:LEU:O	1:A:781:VAL:HG23	2.06	0.55
1:B:12:PRO:HA	1:B:32:PRO:HB3	1.87	0.55
1:B:758:GLU:O	1:B:762:VAL:HG22	2.06	0.55
1:D:203:ALA:HB3	1:F:181:GLU:HG3	1.89	0.55
1:F:12:PRO:HA	1:F:32:PRO:HB3	1.88	0.55
1:G:382:LEU:HD11	1:G:388:ILE:HG12	1.88	0.55
1:K:182:CYS:O	1:K:190:ARG:N	2.36	0.55
1:K:727:GLU:HA	1:K:730:ALA:HB3	1.89	0.55
1:L:12:PRO:HA	1:L:32:PRO:HB3	1.88	0.55
1:L:570:ASP:OD2	1:L:630:GLN:NE2	2.39	0.55
1:M:21:GLN:HE22	1:M:39:ASP:HB2	1.70	0.55
1:N:504:ARG:NH2	1:N:524:THR:OG1	2.38	0.55
1:O:299:LYS:NZ	1:O:317:GLU:OE2	2.32	0.55
1:R:12:PRO:HA	1:R:32:PRO:HB3	1.88	0.55
1:R:285:LEU:HB2	1:R:315:ARG:HG3	1.88	0.55
1:R:758:GLU:O	1:R:762:VAL:HG22	2.07	0.55
1:S:21:GLN:HE22	1:S:39:ASP:HB2	1.70	0.55
1:V:116:LEU:HB2	1:V:119:THR:HG23	1.87	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:X:21:GLN:HE22	1:X:39:ASP:HB2	1.71	0.55
1:AA:758:GLU:O	1:AA:762:VAL:HG22	2.07	0.55
1:AA:777:LEU:O	1:AA:781:VAL:HG23	2.06	0.55
1:CA:382:LEU:HD11	1:CA:388:ILE:HG12	1.88	0.55
1:DA:758:GLU:O	1:DA:762:VAL:HG22	2.06	0.55
1:DA:777:LEU:O	1:DA:781:VAL:HG23	2.06	0.55
1:EA:347:GLU:OE2	1:EA:351:HIS:NE2	2.39	0.55
1:GA:727:GLU:HA	1:GA:730:ALA:HB3	1.89	0.55
1:HA:504:ARG:NH2	1:HA:524:THR:OG1	2.38	0.55
1:IA:777:LEU:O	1:IA:781:VAL:HG23	2.06	0.55
1:JA:758:GLU:O	1:JA:762:VAL:HG22	2.06	0.55
1:MA:727:GLU:HA	1:MA:730:ALA:HB3	1.89	0.55
1:OA:382:LEU:HD11	1:OA:388:ILE:HG12	1.88	0.55
1:PA:347:GLU:OE2	1:PA:351:HIS:NE2	2.39	0.55
1:SA:727:GLU:HA	1:SA:730:ALA:HB3	1.89	0.55
1:TA:21:GLN:HE22	1:TA:39:ASP:HB2	1.71	0.55
1:UA:758:GLU:O	1:UA:762:VAL:HG22	2.06	0.55
1:VA:388:ILE:HA	1:VA:456:ARG:HA	1.88	0.55
1:AB:388:ILE:HA	1:AB:456:ARG:HA	1.88	0.55
1:DB:12:PRO:HA	1:DB:32:PRO:HB3	1.88	0.55
1:EB:793:LYS:HA	1:EB:796:LYS:HB3	1.88	0.55
1:GB:758:GLU:O	1:GB:762:VAL:HG22	2.06	0.55
1:KB:727:GLU:HA	1:KB:730:ALA:HB3	1.88	0.55
1:LB:687:ARG:NH2	1:MB:679:ARG:CD	2.66	0.55
1:LB:793:LYS:HA	1:LB:796:LYS:HB3	1.88	0.55
1:OB:17:HIS:NE2	1:OB:99:LEU:O	2.33	0.55
1:OB:727:GLU:HA	1:OB:730:ALA:HB3	1.89	0.55
1:PB:64:PRO:O	1:PB:84:ARG:N	2.28	0.55
1:QB:138:MET:N	1:QB:141:ASP:OD2	2.36	0.55
1:RB:727:GLU:HA	1:RB:730:ALA:HB3	1.89	0.55
1:TB:182:CYS:O	1:TB:190:ARG:N	2.35	0.55
1:TB:382:LEU:HD11	1:TB:388:ILE:HG12	1.88	0.55
1:TB:777:LEU:O	1:TB:781:VAL:HG23	2.06	0.55
1:UB:504:ARG:NH2	1:UB:524:THR:OG1	2.38	0.55
1:ZB:777:LEU:O	1:ZB:781:VAL:HG23	2.06	0.55
1:A:764:LYS:CA	1:C:759:LEU:CD1	2.85	0.55
1:B:534:HIS:HB2	1:AC:658:VAL:HG22	1.87	0.55
1:B:793:LYS:HA	1:B:796:LYS:HB3	1.88	0.55
1:C:777:LEU:O	1:C:781:VAL:HG23	2.06	0.55
1:D:57:HIS:CD2	1:F:127:LEU:HD22	2.36	0.55
1:D:522:PHE:HZ	1:F:566:ASP:CB	2.14	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:570:ASP:OD2	1:G:630:GLN:NE2	2.39	0.55
1:N:777:LEU:O	1:N:781:VAL:HG23	2.06	0.55
1:O:777:LEU:O	1:O:781:VAL:HG23	2.06	0.55
1:P:504:ARG:NH2	1:P:524:THR:OG1	2.38	0.55
1:CA:388:ILE:HA	1:CA:456:ARG:HA	1.88	0.55
1:DA:388:ILE:HA	1:DA:456:ARG:HA	1.88	0.55
1:DA:727:GLU:HA	1:DA:730:ALA:HB3	1.89	0.55
1:FA:285:LEU:HB2	1:FA:315:ARG:HG3	1.88	0.55
1:GA:12:PRO:HA	1:GA:32:PRO:HB3	1.88	0.55
1:HA:382:LEU:HD11	1:HA:388:ILE:HG12	1.88	0.55
1:KA:64:PRO:O	1:KA:84:ARG:N	2.28	0.55
1:LA:388:ILE:HA	1:LA:456:ARG:HA	1.88	0.55
1:PA:777:LEU:O	1:PA:781:VAL:HG23	2.06	0.55
1:RA:12:PRO:HA	1:RA:32:PRO:HB3	1.88	0.55
1:RA:347:GLU:OE2	1:RA:351:HIS:NE2	2.39	0.55
1:RA:758:GLU:O	1:RA:762:VAL:HG22	2.06	0.55
1:SA:21:GLN:HE22	1:SA:39:ASP:HB2	1.70	0.55
1:UA:382:LEU:HD11	1:UA:388:ILE:HG12	1.88	0.55
1:VA:116:LEU:HB2	1:VA:119:THR:HG23	1.87	0.55
1:VA:570:ASP:OD2	1:VA:630:GLN:NE2	2.39	0.55
1:YA:347:GLU:OE2	1:YA:351:HIS:NE2	2.39	0.55
1:BB:727:GLU:HA	1:BB:730:ALA:HB3	1.89	0.55
1:CB:533:ASP:OD2	1:CB:587:THR:OG1	2.17	0.55
1:EB:388:ILE:HA	1:EB:456:ARG:HA	1.88	0.55
1:FB:793:LYS:HA	1:FB:796:LYS:HB3	1.88	0.55
1:HB:758:GLU:O	1:HB:762:VAL:HG22	2.07	0.55
1:IB:382:LEU:HD11	1:IB:388:ILE:HG12	1.88	0.55
1:JB:285:LEU:HB2	1:JB:315:ARG:HG3	1.88	0.55
1:JB:777:LEU:O	1:JB:781:VAL:HG23	2.06	0.55
1:KB:533:ASP:OD2	1:KB:587:THR:OG1	2.17	0.55
1:KB:777:LEU:O	1:KB:781:VAL:HG23	2.06	0.55
1:NB:382:LEU:HD11	1:NB:388:ILE:HG12	1.88	0.55
1:RB:388:ILE:HA	1:RB:456:ARG:HA	1.88	0.55
1:SB:758:GLU:O	1:SB:762:VAL:HG22	2.07	0.55
1:UB:802:LEU:CD2	1:VB:807:ILE:HG12	2.37	0.55
1:UB:802:LEU:HD21	1:VB:807:ILE:HG13	1.89	0.55
1:ZB:757:ALA:HB1	1:AC:751:LEU:HG	1.89	0.55
1:AC:727:GLU:HA	1:AC:730:ALA:HB3	1.89	0.55
1:A:64:PRO:O	1:A:84:ARG:N	2.28	0.55
1:A:755:THR:HA	1:A:758:GLU:HB3	1.87	0.55
1:B:17:HIS:NE2	1:B:99:LEU:O	2.33	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:486:LEU:H	1:D:476:LYS:NZ	2.03	0.55
1:C:739:GLY:C	1:E:734:ARG:NH2	2.60	0.55
1:E:382:LEU:HD11	1:E:388:ILE:HG12	1.88	0.55
1:E:727:GLU:HA	1:E:730:ALA:HB3	1.88	0.55
1:H:21:GLN:HE22	1:H:39:ASP:HB2	1.71	0.55
1:H:388:ILE:HA	1:H:456:ARG:HA	1.88	0.55
1:I:793:LYS:HA	1:I:796:LYS:HB3	1.88	0.55
1:J:388:ILE:HA	1:J:456:ARG:HA	1.88	0.55
1:K:39:ASP:CG	1:UB:38:GLN:CA	2.67	0.55
1:X:17:HIS:NE2	1:X:99:LEU:O	2.34	0.55
1:X:138:MET:N	1:X:141:ASP:OD2	2.36	0.55
1:AA:727:GLU:HA	1:AA:730:ALA:HB3	1.89	0.55
1:DA:793:LYS:HA	1:DA:796:LYS:HB3	1.88	0.55
1:EA:182:CYS:O	1:EA:190:ARG:N	2.35	0.55
1:FA:570:ASP:OD2	1:FA:630:GLN:NE2	2.39	0.55
1:GA:626:ALA:HB3	1:GA:635:VAL:HB	1.89	0.55
1:IA:182:CYS:O	1:IA:190:ARG:N	2.35	0.55
1:JA:533:ASP:OD2	1:JA:587:THR:OG1	2.17	0.55
1:JA:626:ALA:HB3	1:JA:635:VAL:HB	1.89	0.55
1:KA:21:GLN:HE22	1:KA:39:ASP:HB2	1.70	0.55
1:KA:347:GLU:OE2	1:KA:351:HIS:NE2	2.39	0.55
1:UA:285:LEU:HB2	1:UA:315:ARG:HG3	1.88	0.55
1:VA:285:LEU:HB2	1:VA:315:ARG:HG3	1.88	0.55
1:WA:21:GLN:HE22	1:WA:39:ASP:HB2	1.70	0.55
1:XA:595:SER:HB2	1:ZA:580:ARG:HH12	1.71	0.55
1:YA:758:GLU:O	1:YA:762:VAL:HG22	2.06	0.55
1:YA:777:LEU:O	1:YA:781:VAL:HG23	2.06	0.55
1:BB:12:PRO:HA	1:BB:32:PRO:HB3	1.87	0.55
1:DB:382:LEU:HD11	1:DB:388:ILE:HG12	1.88	0.55
1:FB:626:ALA:HB3	1:FB:635:VAL:HB	1.89	0.55
1:FB:727:GLU:HA	1:FB:730:ALA:HB3	1.89	0.55
1:IB:116:LEU:HB2	1:IB:119:THR:HG23	1.87	0.55
1:IB:138:MET:N	1:IB:141:ASP:OD2	2.36	0.55
1:KB:758:GLU:O	1:KB:762:VAL:HG22	2.06	0.55
1:LB:347:GLU:OE2	1:LB:351:HIS:NE2	2.39	0.55
1:LB:655:GLN:CG	1:MB:649:ARG:HB2	2.35	0.55
1:LB:713:SER:HA	1:MB:704:LYS:HA	1.88	0.55
1:MB:12:PRO:HA	1:MB:32:PRO:HB3	1.88	0.55
1:MB:182:CYS:O	1:MB:190:ARG:N	2.35	0.55
1:PB:116:LEU:HB2	1:PB:119:THR:HG23	1.87	0.55
1:QB:626:ALA:HB3	1:QB:635:VAL:HB	1.89	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:UB:727:GLU:HA	1:UB:730:ALA:HB3	1.89	0.55
1:UB:746:LEU:CG	1:VB:740:SER:HG	2.10	0.55
1:VB:793:LYS:HA	1:VB:796:LYS:HB3	1.88	0.55
1:YB:570:ASP:OD2	1:YB:630:GLN:NE2	2.39	0.55
1:YB:727:GLU:HA	1:YB:730:ALA:HB3	1.89	0.55
1:C:116:LEU:HB2	1:C:119:THR:HG23	1.87	0.55
1:D:51:VAL:CG2	1:F:86:ALA:CA	2.85	0.55
1:D:626:ALA:HB3	1:D:635:VAL:HB	1.89	0.55
1:K:21:GLN:HE22	1:K:39:ASP:HB2	1.70	0.55
1:L:347:GLU:OE2	1:L:351:HIS:NE2	2.39	0.55
1:M:793:LYS:HA	1:M:796:LYS:HB3	1.88	0.55
1:O:768:MET:HE3	1:Q:763:LYS:HB2	1.89	0.55
1:Q:504:ARG:NH2	1:Q:524:THR:OG1	2.38	0.55
1:S:116:LEU:HB2	1:S:119:THR:HG23	1.87	0.55
1:S:285:LEU:HB2	1:S:315:ARG:HG3	1.88	0.55
1:T:285:LEU:HB2	1:T:315:ARG:HG3	1.88	0.55
1:T:768:MET:HA	1:T:771:ILE:HG12	1.89	0.55
1:T:793:LYS:HA	1:T:796:LYS:HB3	1.88	0.55
1:Y:12:PRO:HA	1:Y:32:PRO:HB3	1.88	0.55
1:Y:347:GLU:OE2	1:Y:351:HIS:NE2	2.39	0.55
1:AA:570:ASP:OD2	1:AA:630:GLN:NE2	2.39	0.55
1:BA:12:PRO:HA	1:BA:32:PRO:HB3	1.88	0.55
1:BA:347:GLU:OE2	1:BA:351:HIS:NE2	2.39	0.55
1:CA:64:PRO:O	1:CA:84:ARG:N	2.28	0.55
1:DA:11:PRO:HG2	1:DA:14:HIS:HB2	1.89	0.55
1:EA:626:ALA:HB3	1:EA:635:VAL:HB	1.89	0.55
1:HA:116:LEU:HB2	1:HA:119:THR:HG23	1.87	0.55
1:IA:54:PRO:C	1:KA:86:ALA:HB1	2.27	0.55
1:JA:777:LEU:O	1:JA:781:VAL:HG23	2.06	0.55
1:MA:347:GLU:OE2	1:MA:351:HIS:NE2	2.39	0.55
1:NA:793:LYS:HA	1:NA:796:LYS:HB3	1.88	0.55
1:OA:504:ARG:NH2	1:OA:524:THR:OG1	2.38	0.55
1:PA:285:LEU:HB2	1:PA:315:ARG:HG3	1.88	0.55
1:TA:504:ARG:NH2	1:TA:524:THR:OG1	2.38	0.55
1:UA:727:GLU:HA	1:UA:730:ALA:HB3	1.89	0.55
1:UA:755:THR:HA	1:UA:758:GLU:HB3	1.87	0.55
1:VA:12:PRO:HA	1:VA:32:PRO:HB3	1.88	0.55
1:VA:299:LYS:NZ	1:VA:317:GLU:OE2	2.32	0.55
1:VA:382:LEU:HD11	1:VA:388:ILE:HG12	1.88	0.55
1:XA:768:MET:HA	1:XA:771:ILE:HG12	1.89	0.55
1:YA:285:LEU:HB2	1:YA:315:ARG:HG3	1.88	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:ZA:116:LEU:HB2	1:ZA:119:THR:HG23	1.87	0.55
1:BB:382:LEU:HD11	1:BB:388:ILE:HG12	1.88	0.55
1:CB:382:LEU:HD11	1:CB:388:ILE:HG12	1.88	0.55
1:CB:691:GLN:OE1	1:DB:679:ARG:NE	2.39	0.55
1:CB:768:MET:HA	1:CB:771:ILE:HG12	1.89	0.55
1:DB:388:ILE:HA	1:DB:456:ARG:HA	1.88	0.55
1:DB:504:ARG:NH2	1:DB:524:THR:OG1	2.38	0.55
1:GB:347:GLU:OE2	1:GB:351:HIS:NE2	2.39	0.55
1:GB:777:LEU:O	1:GB:781:VAL:HG23	2.06	0.55
1:LB:713:SER:HB2	1:MB:704:LYS:HB2	1.88	0.55
1:MB:285:LEU:HB2	1:MB:315:ARG:HG3	1.88	0.55
1:QB:17:HIS:NE2	1:QB:99:LEU:O	2.33	0.55
1:RB:285:LEU:HB2	1:RB:315:ARG:HG3	1.88	0.55
1:TB:592:HIS:HD2	1:UB:532:ALA:O	1.90	0.55
1:VB:728:SER:CB	1:WB:722:ALA:HB3	2.37	0.55
1:C:772:TYR:CD1	1:E:766:ARG:CB	2.88	0.55
1:E:522:PHE:CG	1:G:573:LYS:HE2	2.41	0.55
1:F:182:CYS:O	1:F:190:ARG:N	2.35	0.55
1:H:777:LEU:O	1:H:781:VAL:HG23	2.06	0.55
1:I:12:PRO:HA	1:I:32:PRO:HB3	1.88	0.55
1:I:116:LEU:HB2	1:I:119:THR:HG23	1.87	0.55
1:N:758:GLU:O	1:N:762:VAL:HG22	2.06	0.55
1:X:626:ALA:HB3	1:X:635:VAL:HB	1.89	0.55
1:X:768:MET:HA	1:X:771:ILE:HG12	1.89	0.55
1:AA:12:PRO:HA	1:AA:32:PRO:HB3	1.88	0.55
1:AA:533:ASP:OD2	1:AA:587:THR:OG1	2.17	0.55
1:AA:768:MET:HA	1:AA:771:ILE:HG12	1.89	0.55
1:FA:138:MET:N	1:FA:141:ASP:OD2	2.36	0.55
1:GA:382:LEU:HD11	1:GA:388:ILE:HG12	1.88	0.55
1:GA:768:MET:HA	1:GA:771:ILE:HG12	1.89	0.55
1:HA:626:ALA:HB3	1:HA:635:VAL:HB	1.89	0.55
1:JA:727:GLU:HA	1:JA:730:ALA:HB3	1.89	0.55
1:LA:504:ARG:NH2	1:LA:524:THR:OG1	2.38	0.55
1:MA:64:PRO:O	1:MA:84:ARG:N	2.28	0.55
1:NA:504:ARG:NH2	1:NA:524:THR:OG1	2.38	0.55
1:XA:706:LEU:CD2	1:ZA:693:ILE:HG23	2.37	0.55
1:XA:727:GLU:HA	1:XA:730:ALA:HB3	1.89	0.55
1:AB:727:GLU:HA	1:AB:730:ALA:HB3	1.89	0.55
1:AB:758:GLU:O	1:AB:762:VAL:HG22	2.06	0.55
1:DB:138:MET:N	1:DB:141:ASP:OD2	2.36	0.55
1:EB:626:ALA:HB3	1:EB:635:VAL:HB	1.89	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:GB:12:PRO:HA	1:GB:32:PRO:HB3	1.88	0.55
1:IB:17:HIS:NE2	1:IB:99:LEU:O	2.34	0.55
1:JB:758:GLU:O	1:JB:762:VAL:HG22	2.07	0.55
1:MB:626:ALA:HB3	1:MB:635:VAL:HB	1.89	0.55
1:MB:768:MET:HA	1:MB:771:ILE:HG12	1.89	0.55
1:NB:21:GLN:HE22	1:NB:39:ASP:HB2	1.70	0.55
1:NB:777:LEU:O	1:NB:781:VAL:HG23	2.06	0.55
1:OB:728:SER:CA	1:PB:722:ALA:CB	2.82	0.55
1:PB:12:PRO:HA	1:PB:32:PRO:HB3	1.88	0.55
1:UB:533:ASP:OD2	1:UB:587:THR:OG1	2.17	0.55
1:UB:758:GLU:O	1:UB:762:VAL:HG22	2.06	0.55
1:WB:504:ARG:NH2	1:WB:524:THR:OG1	2.38	0.55
1:WB:768:MET:HA	1:WB:771:ILE:HG12	1.89	0.55
1:XB:279:ARG:NH2	1:YB:369:ALA:O	2.40	0.55
1:AC:758:GLU:O	1:AC:762:VAL:HG22	2.07	0.55
1:A:12:PRO:HA	1:A:32:PRO:HB3	1.88	0.55
1:B:279:ARG:HD3	1:D:337:LEU:O	2.07	0.55
1:B:589:ASP:HB2	1:AC:665:THR:HG21	1.87	0.55
1:E:388:ILE:HA	1:E:456:ARG:HA	1.88	0.55
1:E:777:LEU:O	1:E:781:VAL:HG23	2.06	0.55
1:F:285:LEU:HB2	1:F:315:ARG:HG3	1.88	0.55
1:H:758:GLU:O	1:H:762:VAL:HG22	2.07	0.55
1:I:382:LEU:HD11	1:I:388:ILE:HG12	1.88	0.55
1:I:768:MET:HA	1:I:771:ILE:HG12	1.89	0.55
1:J:382:LEU:HD11	1:J:388:ILE:HG12	1.88	0.55
1:K:626:ALA:HB3	1:K:635:VAL:HB	1.89	0.55
1:K:758:GLU:O	1:K:762:VAL:HG22	2.06	0.55
1:M:299:LYS:NZ	1:M:317:GLU:OE2	2.32	0.55
1:N:640:VAL:CG1	1:P:580:ARG:HH22	2.18	0.55
1:O:382:LEU:HD11	1:O:388:ILE:HG12	1.88	0.55
1:Q:758:GLU:O	1:Q:762:VAL:HG22	2.06	0.55
1:Q:768:MET:HA	1:Q:771:ILE:HG12	1.89	0.55
1:V:388:ILE:HA	1:V:456:ARG:HA	1.88	0.55
1:Y:299:LYS:NZ	1:Y:317:GLU:OE2	2.32	0.55
1:AA:17:HIS:NE2	1:AA:99:LEU:O	2.34	0.55
1:FA:388:ILE:HA	1:FA:456:ARG:HA	1.88	0.55
1:HA:285:LEU:HB2	1:HA:315:ARG:HG3	1.88	0.55
1:HA:347:GLU:OE2	1:HA:351:HIS:NE2	2.39	0.55
1:IA:17:HIS:NE2	1:IA:99:LEU:O	2.34	0.55
1:IA:768:MET:HA	1:IA:771:ILE:HG12	1.89	0.55
1:JA:388:ILE:HA	1:JA:456:ARG:HA	1.88	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:KA:116:LEU:HB2	1:KA:119:THR:HG23	1.87	0.55
1:LA:626:ALA:HB3	1:LA:635:VAL:HB	1.89	0.55
1:QA:388:ILE:HA	1:QA:456:ARG:HA	1.88	0.55
1:QA:626:ALA:HB3	1:QA:635:VAL:HB	1.89	0.55
1:QA:758:GLU:O	1:QA:762:VAL:HG22	2.06	0.55
1:QA:793:LYS:HA	1:QA:796:LYS:HB3	1.88	0.55
1:RA:768:MET:HA	1:RA:771:ILE:HG12	1.89	0.55
1:UA:12:PRO:HA	1:UA:32:PRO:HB3	1.88	0.55
1:UA:777:LEU:O	1:UA:781:VAL:HG23	2.06	0.55
1:WA:388:ILE:HA	1:WA:456:ARG:HA	1.88	0.55
1:XA:382:LEU:HD11	1:XA:388:ILE:HG12	1.88	0.55
1:YA:382:LEU:HD11	1:YA:388:ILE:HG12	1.88	0.55
1:ZA:11:PRO:HG2	1:ZA:14:HIS:HB2	1.89	0.55
1:EB:727:GLU:HA	1:EB:730:ALA:HB3	1.89	0.55
1:FB:654:LEU:HD22	1:GB:534:HIS:CG	2.42	0.55
1:FB:713:SER:OG	1:GB:704:LYS:CA	2.55	0.55
1:FB:758:GLU:O	1:FB:762:VAL:HG22	2.07	0.55
1:JB:12:PRO:HA	1:JB:32:PRO:HB3	1.88	0.55
1:LB:504:ARG:NH2	1:LB:524:THR:OG1	2.38	0.55
1:LB:626:ALA:HB3	1:LB:635:VAL:HB	1.89	0.55
1:PB:626:ALA:HB3	1:PB:635:VAL:HB	1.89	0.55
1:RB:382:LEU:HD11	1:RB:388:ILE:HG12	1.88	0.55
1:SB:382:LEU:HD11	1:SB:388:ILE:HG12	1.88	0.55
1:SB:793:LYS:HA	1:SB:796:LYS:HB3	1.88	0.55
1:TB:779:LEU:CD1	1:UB:774:ARG:HH21	2.20	0.55
1:WB:464:HIS:CD2	1:XB:469:GLN:CD	2.81	0.55
1:XB:12:PRO:HA	1:XB:32:PRO:HB3	1.88	0.55
1:XB:388:ILE:HA	1:XB:456:ARG:HA	1.88	0.55
1:XB:758:GLU:O	1:XB:762:VAL:HG22	2.06	0.55
1:YB:504:ARG:NH2	1:YB:524:THR:OG1	2.38	0.55
1:AC:768:MET:HA	1:AC:771:ILE:HG12	1.89	0.55
1:A:182:CYS:O	1:A:190:ARG:N	2.35	0.54
1:A:770:LEU:HA	1:NB:779:LEU:CD1	2.37	0.54
1:I:626:ALA:HB3	1:I:635:VAL:HB	1.89	0.54
1:J:285:LEU:HB2	1:J:315:ARG:HG3	1.88	0.54
1:J:504:ARG:NH2	1:J:524:THR:OG1	2.38	0.54
1:L:11:PRO:HG2	1:L:14:HIS:HB2	1.90	0.54
1:M:347:GLU:OE2	1:M:351:HIS:NE2	2.39	0.54
1:N:347:GLU:OE2	1:N:351:HIS:NE2	2.39	0.54
1:Q:138:MET:N	1:Q:141:ASP:OD2	2.36	0.54
1:Q:382:LEU:HD11	1:Q:388:ILE:HG12	1.88	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:R:727:GLU:HA	1:R:730:ALA:HB3	1.89	0.54
1:S:758:GLU:O	1:S:762:VAL:HG22	2.06	0.54
1:T:533:ASP:OD2	1:T:587:THR:OG1	2.17	0.54
1:X:727:GLU:HA	1:X:730:ALA:HB3	1.89	0.54
1:X:793:LYS:HA	1:X:796:LYS:HB3	1.88	0.54
1:Y:11:PRO:HG2	1:Y:14:HIS:HB2	1.89	0.54
1:Y:138:MET:N	1:Y:141:ASP:OD2	2.36	0.54
1:Y:758:GLU:O	1:Y:762:VAL:HG22	2.06	0.54
1:Y:777:LEU:O	1:Y:781:VAL:HG23	2.06	0.54
1:Z:758:GLU:O	1:Z:762:VAL:HG22	2.07	0.54
1:BA:116:LEU:HB2	1:BA:119:THR:HG23	1.87	0.54
1:BA:793:LYS:HA	1:BA:796:LYS:HB3	1.88	0.54
1:DA:768:MET:HA	1:DA:771:ILE:HG12	1.89	0.54
1:JA:12:PRO:HA	1:JA:32:PRO:HB3	1.88	0.54
1:MA:382:LEU:HD11	1:MA:388:ILE:HG12	1.88	0.54
1:PA:299:LYS:NZ	1:PA:317:GLU:OE2	2.32	0.54
1:PA:626:ALA:HB3	1:PA:635:VAL:HB	1.89	0.54
1:QA:182:CYS:O	1:QA:190:ARG:N	2.35	0.54
1:QA:533:ASP:OD2	1:QA:587:THR:OG1	2.17	0.54
1:SA:382:LEU:HD11	1:SA:388:ILE:HG12	1.88	0.54
1:SA:626:ALA:HB3	1:SA:635:VAL:HB	1.89	0.54
1:SA:758:GLU:O	1:SA:762:VAL:HG22	2.06	0.54
1:TA:382:LEU:HD11	1:TA:388:ILE:HG12	1.88	0.54
1:TA:388:ILE:HA	1:TA:456:ARG:HA	1.88	0.54
1:TA:758:GLU:O	1:TA:762:VAL:HG22	2.06	0.54
1:XA:777:LEU:O	1:XA:781:VAL:HG23	2.06	0.54
1:YA:727:GLU:HA	1:YA:730:ALA:HB3	1.89	0.54
1:CB:626:ALA:HB3	1:CB:635:VAL:HB	1.89	0.54
1:FB:768:MET:HA	1:FB:771:ILE:HG12	1.89	0.54
1:GB:382:LEU:HD11	1:GB:388:ILE:HG12	1.88	0.54
1:GB:626:ALA:HB3	1:GB:635:VAL:HB	1.89	0.54
1:GB:742:LEU:HD12	1:GB:745:LYS:HB2	1.87	0.54
1:HB:17:HIS:NE2	1:HB:99:LEU:O	2.34	0.54
1:NB:504:ARG:NH2	1:NB:524:THR:OG1	2.38	0.54
1:OB:285:LEU:HB2	1:OB:315:ARG:HG3	1.88	0.54
1:OB:347:GLU:OE2	1:OB:351:HIS:NE2	2.39	0.54
1:QB:768:MET:HA	1:QB:771:ILE:HG12	1.89	0.54
1:SB:655:GLN:NE2	1:TB:649:ARG:CB	2.59	0.54
1:TB:388:ILE:HA	1:TB:456:ARG:HA	1.88	0.54
1:UB:17:HIS:NE2	1:UB:99:LEU:O	2.33	0.54
1:XB:768:MET:HA	1:XB:771:ILE:HG12	1.89	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AC:777:LEU:O	1:AC:781:VAL:HG23	2.06	0.54
1:A:285:LEU:HB2	1:A:315:ARG:HG3	1.88	0.54
1:A:739:GLY:HA3	1:C:734:ARG:HH12	1.69	0.54
1:A:768:MET:HA	1:A:771:ILE:HG12	1.89	0.54
1:A:793:LYS:HA	1:A:796:LYS:HB3	1.88	0.54
1:A:801:ALA:CB	1:C:796:LYS:CG	2.85	0.54
1:B:11:PRO:HG2	1:B:14:HIS:HB2	1.90	0.54
1:C:802:LEU:HD23	1:E:799:THR:OG1	2.08	0.54
1:D:703:ARG:NH2	1:F:693:ILE:CD1	2.69	0.54
1:D:793:LYS:HA	1:D:796:LYS:HB3	1.88	0.54
1:E:758:GLU:O	1:E:762:VAL:HG22	2.07	0.54
1:F:388:ILE:HA	1:F:456:ARG:HA	1.88	0.54
1:F:626:ALA:HB3	1:F:635:VAL:HB	1.89	0.54
1:H:757:ALA:CB	1:J:748:ALA:HB1	2.37	0.54
1:I:182:CYS:O	1:I:190:ARG:N	2.35	0.54
1:J:758:GLU:O	1:J:762:VAL:HG22	2.06	0.54
1:J:793:LYS:HA	1:J:796:LYS:HB3	1.88	0.54
1:M:758:GLU:O	1:M:762:VAL:HG22	2.06	0.54
1:P:793:LYS:HA	1:P:796:LYS:HB3	1.88	0.54
1:R:388:ILE:HA	1:R:456:ARG:HA	1.88	0.54
1:T:758:GLU:O	1:T:762:VAL:HG22	2.07	0.54
1:V:17:HIS:NE2	1:V:99:LEU:O	2.33	0.54
1:V:382:LEU:HD11	1:V:388:ILE:HG12	1.88	0.54
1:V:626:ALA:HB3	1:V:635:VAL:HB	1.89	0.54
1:W:11:PRO:HG2	1:W:14:HIS:HB2	1.90	0.54
1:EA:758:GLU:O	1:EA:762:VAL:HG22	2.07	0.54
1:FA:626:ALA:HB3	1:FA:635:VAL:HB	1.89	0.54
1:FA:727:GLU:HA	1:FA:730:ALA:HB3	1.89	0.54
1:JA:285:LEU:HB2	1:JA:315:ARG:HG3	1.88	0.54
1:KA:11:PRO:HG2	1:KA:14:HIS:HB2	1.90	0.54
1:MA:138:MET:N	1:MA:141:ASP:OD2	2.36	0.54
1:NA:758:GLU:O	1:NA:762:VAL:HG22	2.07	0.54
1:PA:138:MET:N	1:PA:141:ASP:OD2	2.36	0.54
1:PA:727:GLU:HA	1:PA:730:ALA:HB3	1.89	0.54
1:RA:727:GLU:HA	1:RA:730:ALA:HB3	1.89	0.54
1:TA:64:PRO:O	1:TA:84:ARG:N	2.28	0.54
1:UA:506:LYS:O	1:UA:507:ARG:NE	2.41	0.54
1:WA:347:GLU:OE2	1:WA:351:HIS:NE2	2.39	0.54
1:WA:727:GLU:HA	1:WA:730:ALA:HB3	1.89	0.54
1:BB:347:GLU:OE2	1:BB:351:HIS:NE2	2.39	0.54
1:BB:626:ALA:HB3	1:BB:635:VAL:HB	1.89	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:DB:758:GLU:O	1:DB:762:VAL:HG22	2.07	0.54
1:GB:768:MET:HA	1:GB:771:ILE:HG12	1.89	0.54
1:HB:11:PRO:HG2	1:HB:14:HIS:HB2	1.89	0.54
1:HB:727:GLU:HA	1:HB:730:ALA:HB3	1.88	0.54
1:JB:138:MET:N	1:JB:141:ASP:OD2	2.36	0.54
1:NB:299:LYS:NZ	1:NB:317:GLU:OE2	2.32	0.54
1:OB:275:THR:HG1	1:PB:296:LEU:HB3	1.67	0.54
1:PB:768:MET:HA	1:PB:771:ILE:HG12	1.89	0.54
1:QB:299:LYS:NZ	1:QB:317:GLU:OE2	2.32	0.54
1:QB:388:ILE:HA	1:QB:456:ARG:HA	1.88	0.54
1:RB:504:ARG:NH2	1:RB:524:THR:OG1	2.38	0.54
1:TB:727:GLU:HA	1:TB:730:ALA:HB3	1.89	0.54
1:VB:727:GLU:HA	1:VB:730:ALA:HB3	1.89	0.54
1:XB:522:PHE:CG	1:YB:573:LYS:HE2	2.42	0.54
1:YB:285:LEU:HB2	1:YB:315:ARG:HG3	1.88	0.54
1:A:746:LEU:HB3	1:C:738:GLU:N	2.22	0.54
1:B:299:LYS:NZ	1:B:317:GLU:OE2	2.32	0.54
1:B:693:ILE:HG23	1:AC:706:LEU:CG	2.38	0.54
1:D:222:THR:HG21	1:F:247:GLU:HA	1.90	0.54
1:D:724:ALA:HB2	1:F:715:ALA:HB2	1.85	0.54
1:E:506:LYS:O	1:E:507:ARG:NE	2.41	0.54
1:E:793:LYS:HA	1:E:796:LYS:HB3	1.88	0.54
1:F:768:MET:HA	1:F:771:ILE:HG12	1.89	0.54
1:G:285:LEU:HB2	1:G:315:ARG:HG3	1.88	0.54
1:K:11:PRO:HG2	1:K:14:HIS:HB2	1.89	0.54
1:N:687:ARG:HH12	1:P:679:ARG:NH1	2.05	0.54
1:O:388:ILE:HA	1:O:456:ARG:HA	1.88	0.54
1:O:727:GLU:HA	1:O:730:ALA:HB3	1.88	0.54
1:Q:285:LEU:HB2	1:Q:315:ARG:HG3	1.88	0.54
1:R:116:LEU:HB2	1:R:119:THR:HG23	1.87	0.54
1:R:182:CYS:O	1:R:190:ARG:N	2.35	0.54
1:R:687:ARG:NH1	1:T:679:ARG:NH1	2.55	0.54
1:S:793:LYS:HA	1:S:796:LYS:HB3	1.88	0.54
1:T:506:LYS:O	1:T:507:ARG:NE	2.41	0.54
1:W:116:LEU:HB2	1:W:119:THR:HG23	1.87	0.54
1:X:285:LEU:HB2	1:X:315:ARG:HG3	1.88	0.54
1:Z:506:LYS:O	1:Z:507:ARG:NE	2.41	0.54
1:DA:382:LEU:HD11	1:DA:388:ILE:HG12	1.88	0.54
1:EA:11:PRO:HG2	1:EA:14:HIS:HB2	1.90	0.54
1:EA:17:HIS:NE2	1:EA:99:LEU:O	2.34	0.54
1:IA:626:ALA:HB3	1:IA:635:VAL:HB	1.89	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:IA:727:GLU:HA	1:IA:730:ALA:HB3	1.89	0.54
1:JA:299:LYS:NZ	1:JA:317:GLU:OE2	2.32	0.54
1:KA:388:ILE:HA	1:KA:456:ARG:HA	1.88	0.54
1:KA:805:GLY:HA2	1:KA:808:ARG:HE	1.73	0.54
1:MA:12:PRO:HA	1:MA:32:PRO:HB3	1.88	0.54
1:OA:138:MET:N	1:OA:141:ASP:OD2	2.36	0.54
1:OA:626:ALA:HB3	1:OA:635:VAL:HB	1.89	0.54
1:QA:11:PRO:HG2	1:QA:14:HIS:HB2	1.90	0.54
1:TA:299:LYS:NZ	1:TA:317:GLU:OE2	2.32	0.54
1:WA:116:LEU:HB2	1:WA:119:THR:HG23	1.87	0.54
1:XA:793:LYS:HA	1:XA:796:LYS:HB3	1.88	0.54
1:ZA:382:LEU:HD11	1:ZA:388:ILE:HG12	1.88	0.54
1:EB:382:LEU:HD11	1:EB:388:ILE:HG12	1.88	0.54
1:GB:727:GLU:HA	1:GB:730:ALA:HB3	1.89	0.54
1:HB:626:ALA:HB3	1:HB:635:VAL:HB	1.89	0.54
1:IB:12:PRO:HA	1:IB:32:PRO:HB3	1.88	0.54
1:KB:506:LYS:O	1:KB:507:ARG:NE	2.41	0.54
1:KB:768:MET:HA	1:KB:771:ILE:HG12	1.89	0.54
1:LB:588:PHE:CE2	1:MB:534:HIS:NE2	2.75	0.54
1:LB:727:GLU:HA	1:LB:730:ALA:HB3	1.89	0.54
1:MB:382:LEU:HD11	1:MB:388:ILE:HG12	1.88	0.54
1:MB:731:GLU:HG2	1:NB:719:THR:OG1	2.07	0.54
1:NB:626:ALA:HB3	1:NB:635:VAL:HB	1.89	0.54
1:OB:596:ALA:HB2	1:PB:581:GLY:CA	2.35	0.54
1:QB:655:GLN:CG	1:RB:649:ARG:HD3	2.37	0.54
1:RB:626:ALA:HB3	1:RB:635:VAL:HB	1.89	0.54
1:SB:673:ALA:HB2	1:TB:664:ILE:HD12	1.89	0.54
1:UB:21:GLN:HE22	1:UB:39:ASP:HB2	1.71	0.54
1:UB:626:ALA:HB3	1:UB:635:VAL:HB	1.89	0.54
1:WB:388:ILE:HA	1:WB:456:ARG:HA	1.88	0.54
1:XB:11:PRO:HG2	1:XB:14:HIS:HB2	1.89	0.54
1:XB:504:ARG:NH2	1:XB:524:THR:OG1	2.38	0.54
1:XB:793:LYS:HA	1:XB:796:LYS:HB3	1.88	0.54
1:ZB:793:LYS:HA	1:ZB:796:LYS:HB3	1.88	0.54
1:B:693:ILE:HG23	1:AC:706:LEU:CD2	2.34	0.54
1:C:727:GLU:HA	1:C:730:ALA:HB3	1.89	0.54
1:D:12:PRO:HA	1:D:32:PRO:HB3	1.88	0.54
1:D:13:TYR:CE2	1:F:82:ARG:HG2	2.26	0.54
1:G:12:PRO:HA	1:G:32:PRO:HB3	1.88	0.54
1:G:768:MET:HA	1:G:771:ILE:HG12	1.89	0.54
1:H:626:ALA:HB3	1:H:635:VAL:HB	1.89	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:17:HIS:NE2	1:J:99:LEU:O	2.33	0.54
1:J:640:VAL:O	1:L:580:ARG:NH2	2.38	0.54
1:K:347:GLU:OE2	1:K:351:HIS:NE2	2.39	0.54
1:K:388:ILE:HA	1:K:456:ARG:HA	1.88	0.54
1:M:706:LEU:HD21	1:O:693:ILE:HD12	1.88	0.54
1:M:727:GLU:HA	1:M:730:ALA:HB3	1.89	0.54
1:P:299:LYS:NZ	1:P:317:GLU:OE2	2.32	0.54
1:Q:11:PRO:HG2	1:Q:14:HIS:HB2	1.90	0.54
1:R:793:LYS:HA	1:R:796:LYS:HB3	1.88	0.54
1:T:382:LEU:HD11	1:T:388:ILE:HG12	1.88	0.54
1:V:504:ARG:NH2	1:V:524:THR:OG1	2.38	0.54
1:V:805:GLY:HA2	1:V:808:ARG:HE	1.73	0.54
1:Y:805:GLY:HA2	1:Y:808:ARG:HE	1.73	0.54
1:BA:727:GLU:HA	1:BA:730:ALA:HB3	1.89	0.54
1:CA:626:ALA:HB3	1:CA:635:VAL:HB	1.89	0.54
1:EA:382:LEU:HD11	1:EA:388:ILE:HG12	1.88	0.54
1:IA:169:LYS:NZ	1:KA:194:GLU:CB	2.70	0.54
1:IA:285:LEU:HB2	1:IA:315:ARG:HG3	1.88	0.54
1:JA:382:LEU:HD11	1:JA:388:ILE:HG12	1.88	0.54
1:LA:182:CYS:O	1:LA:190:ARG:N	2.35	0.54
1:LA:347:GLU:OE2	1:LA:351:HIS:NE2	2.39	0.54
1:NA:626:ALA:HB3	1:NA:635:VAL:HB	1.89	0.54
1:TA:727:GLU:HA	1:TA:730:ALA:HB3	1.88	0.54
1:WA:64:PRO:O	1:WA:84:ARG:N	2.28	0.54
1:XA:732:ALA:HB2	1:ZA:722:ALA:HB1	1.90	0.54
1:ZA:805:GLY:HA2	1:ZA:808:ARG:HE	1.73	0.54
1:AB:285:LEU:HB2	1:AB:315:ARG:HG3	1.88	0.54
1:CB:347:GLU:OE2	1:CB:351:HIS:NE2	2.39	0.54
1:GB:506:LYS:O	1:GB:507:ARG:NE	2.41	0.54
1:IB:347:GLU:OE2	1:IB:351:HIS:NE2	2.39	0.54
1:JB:382:LEU:HD11	1:JB:388:ILE:HG12	1.88	0.54
1:JB:388:ILE:HA	1:JB:456:ARG:HA	1.88	0.54
1:MB:347:GLU:OE2	1:MB:351:HIS:NE2	2.39	0.54
1:OB:695:ASP:OD1	1:PB:686:GLY:C	2.46	0.54
1:RB:639:ASP:HB3	1:SB:577:SER:HB3	1.89	0.54
1:TB:504:ARG:NH2	1:TB:524:THR:OG1	2.38	0.54
1:UB:768:MET:CE	1:VB:766:ARG:CG	2.81	0.54
1:VB:21:GLN:HE22	1:VB:39:ASP:HB2	1.70	0.54
1:VB:758:GLU:O	1:VB:762:VAL:HG22	2.06	0.54
1:WB:626:ALA:HB3	1:WB:635:VAL:HB	1.89	0.54
1:XB:285:LEU:HB2	1:XB:315:ARG:HG3	1.88	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:YB:793:LYS:HA	1:YB:796:LYS:HB3	1.88	0.54
1:ZB:533:ASP:OD2	1:ZB:587:THR:OG1	2.17	0.54
1:AC:11:PRO:HG2	1:AC:14:HIS:HB2	1.90	0.54
1:B:626:ALA:HB3	1:B:635:VAL:HB	1.89	0.54
1:D:285:LEU:HB2	1:D:315:ARG:HG3	1.88	0.54
1:E:182:CYS:O	1:E:190:ARG:N	2.35	0.54
1:E:285:LEU:HB2	1:E:315:ARG:HG3	1.88	0.54
1:G:768:MET:SD	1:I:759:LEU:HD12	2.48	0.54
1:H:727:GLU:HA	1:H:730:ALA:HB3	1.88	0.54
1:J:11:PRO:HG2	1:J:14:HIS:HB2	1.89	0.54
1:J:805:GLY:HA2	1:J:808:ARG:HE	1.73	0.54
1:L:793:LYS:HA	1:L:796:LYS:HB3	1.88	0.54
1:M:382:LEU:HD11	1:M:388:ILE:HG12	1.88	0.54
1:N:12:PRO:HA	1:N:32:PRO:HB3	1.88	0.54
1:N:533:ASP:OD2	1:N:587:THR:OG1	2.17	0.54
1:P:11:PRO:HG2	1:P:14:HIS:HB2	1.89	0.54
1:P:347:GLU:OE2	1:P:351:HIS:NE2	2.39	0.54
1:Y:506:LYS:O	1:Y:507:ARG:NE	2.41	0.54
1:Z:626:ALA:HB3	1:Z:635:VAL:HB	1.89	0.54
1:DA:506:LYS:O	1:DA:507:ARG:NE	2.41	0.54
1:HA:388:ILE:HA	1:HA:456:ARG:HA	1.88	0.54
1:IA:758:GLU:O	1:IA:762:VAL:HG22	2.06	0.54
1:JA:506:LYS:O	1:JA:507:ARG:NE	2.41	0.54
1:JA:805:GLY:HA2	1:JA:808:ARG:HE	1.73	0.54
1:KA:727:GLU:HA	1:KA:730:ALA:HB3	1.89	0.54
1:RA:805:GLY:HA2	1:RA:808:ARG:HE	1.73	0.54
1:VA:727:GLU:HA	1:VA:730:ALA:HB3	1.89	0.54
1:VA:768:MET:HA	1:VA:771:ILE:HG12	1.89	0.54
1:XA:11:PRO:HG2	1:XA:14:HIS:HB2	1.89	0.54
1:ZA:595:SER:CB	1:BB:580:ARG:HH12	2.21	0.54
1:ZA:758:GLU:O	1:ZA:762:VAL:HG22	2.07	0.54
1:BB:11:PRO:HG2	1:BB:14:HIS:HB2	1.90	0.54
1:BB:138:MET:N	1:BB:141:ASP:OD2	2.36	0.54
1:DB:11:PRO:HG2	1:DB:14:HIS:HB2	1.89	0.54
1:DB:626:ALA:HB3	1:DB:635:VAL:HB	1.89	0.54
1:HB:388:ILE:HA	1:HB:456:ARG:HA	1.88	0.54
1:IB:626:ALA:HB3	1:IB:635:VAL:HB	1.89	0.54
1:KB:285:LEU:HB2	1:KB:315:ARG:HG3	1.88	0.54
1:OB:768:MET:HA	1:OB:771:ILE:HG12	1.89	0.54
1:RB:182:CYS:O	1:RB:190:ARG:N	2.35	0.54
1:RB:805:GLY:HA2	1:RB:808:ARG:HE	1.73	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:SB:533:ASP:OD2	1:SB:587:THR:OG1	2.17	0.54
1:UB:768:MET:HA	1:UB:771:ILE:HG12	1.89	0.54
1:VB:506:LYS:O	1:VB:507:ARG:NE	2.41	0.54
1:WB:533:ASP:OD2	1:WB:587:THR:OG1	2.17	0.54
1:ZB:758:GLU:O	1:ZB:762:VAL:HG22	2.06	0.54
1:A:533:ASP:OD2	1:A:587:THR:OG1	2.17	0.54
1:D:347:GLU:OE2	1:D:351:HIS:NE2	2.39	0.54
1:D:484:PRO:CB	1:F:471:TYR:CE2	2.91	0.54
1:D:544:ASN:OD1	1:F:630:GLN:OE1	2.24	0.54
1:D:727:GLU:HA	1:D:730:ALA:HB3	1.89	0.54
1:F:805:GLY:HA2	1:F:808:ARG:HE	1.73	0.54
1:G:17:HIS:NE2	1:G:99:LEU:O	2.34	0.54
1:G:805:GLY:HA2	1:G:808:ARG:HE	1.73	0.54
1:H:11:PRO:HG2	1:H:14:HIS:HB2	1.90	0.54
1:L:299:LYS:NZ	1:L:317:GLU:OE2	2.32	0.54
1:L:727:GLU:HA	1:L:730:ALA:HB3	1.89	0.54
1:N:11:PRO:HG2	1:N:14:HIS:HB2	1.90	0.54
1:N:768:MET:HA	1:N:771:ILE:HG12	1.89	0.54
1:R:382:LEU:HD11	1:R:388:ILE:HG12	1.88	0.54
1:V:533:ASP:OD2	1:V:587:THR:OG1	2.17	0.54
1:V:727:GLU:HA	1:V:730:ALA:HB3	1.89	0.54
1:V:758:GLU:O	1:V:762:VAL:HG22	2.07	0.54
1:V:768:MET:HA	1:V:771:ILE:HG12	1.89	0.54
1:AA:504:ARG:NH2	1:AA:524:THR:OG1	2.38	0.54
1:CA:285:LEU:HB2	1:CA:315:ARG:HG3	1.88	0.54
1:DA:347:GLU:OE2	1:DA:351:HIS:NE2	2.39	0.54
1:DA:805:GLY:HA2	1:DA:808:ARG:HE	1.73	0.54
1:EA:727:GLU:HA	1:EA:730:ALA:HB3	1.89	0.54
1:FA:11:PRO:HG2	1:FA:14:HIS:HB2	1.89	0.54
1:IA:382:LEU:HD11	1:IA:388:ILE:HG12	1.88	0.54
1:IA:805:GLY:HA2	1:IA:808:ARG:HE	1.73	0.54
1:KA:533:ASP:OD2	1:KA:587:THR:OG1	2.17	0.54
1:KA:768:MET:HA	1:KA:771:ILE:HG12	1.89	0.54
1:OA:285:LEU:HB2	1:OA:315:ARG:HG3	1.88	0.54
1:OA:805:GLY:HA2	1:OA:808:ARG:HE	1.73	0.54
1:RA:626:ALA:HB3	1:RA:635:VAL:HB	1.89	0.54
1:SA:116:LEU:HB2	1:SA:119:THR:HG23	1.87	0.54
1:TA:626:ALA:HB3	1:TA:635:VAL:HB	1.89	0.54
1:VA:626:ALA:HB3	1:VA:635:VAL:HB	1.89	0.54
1:XA:626:ALA:HB3	1:XA:635:VAL:HB	1.89	0.54
1:AB:504:ARG:NH2	1:AB:524:THR:OG1	2.38	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:DB:716:VAL:CG2	1:EB:708:GLU:HG2	2.37	0.54
1:KB:805:GLY:HA2	1:KB:808:ARG:HE	1.73	0.54
1:LB:11:PRO:HG2	1:LB:14:HIS:HB2	1.90	0.54
1:LB:684:ALA:HB2	1:MB:675:HIS:HB3	1.87	0.54
1:MB:742:LEU:HB3	1:NB:734:ARG:CZ	2.36	0.54
1:NB:285:LEU:HB2	1:NB:315:ARG:HG3	1.88	0.54
1:OB:279:ARG:CZ	1:PB:299:LYS:NZ	2.67	0.54
1:OB:626:ALA:HB3	1:OB:635:VAL:HB	1.89	0.54
1:QB:758:GLU:O	1:QB:762:VAL:HG22	2.07	0.54
1:SB:504:ARG:NH2	1:SB:524:THR:OG1	2.38	0.54
1:SB:727:GLU:HA	1:SB:730:ALA:HB3	1.89	0.54
1:SB:805:GLY:HA2	1:SB:808:ARG:HE	1.73	0.54
1:TB:768:MET:HA	1:TB:771:ILE:HG12	1.89	0.54
1:UB:790:VAL:HG23	1:VB:788:ALA:HB2	1.76	0.54
1:VB:116:LEU:HB2	1:VB:119:THR:HG23	1.87	0.54
1:VB:138:MET:N	1:VB:141:ASP:OD2	2.36	0.54
1:VB:382:LEU:HD11	1:VB:388:ILE:HG12	1.88	0.54
1:WB:11:PRO:HG2	1:WB:14:HIS:HB2	1.90	0.54
1:WB:654:LEU:HD13	1:XB:534:HIS:CD2	2.42	0.54
1:XB:805:GLY:HA2	1:XB:808:ARG:HE	1.73	0.54
1:YB:12:PRO:HA	1:YB:32:PRO:HB3	1.88	0.54
1:ZB:347:GLU:OE2	1:ZB:351:HIS:NE2	2.39	0.54
1:ZB:626:ALA:HB3	1:ZB:635:VAL:HB	1.89	0.54
1:ZB:768:MET:HA	1:ZB:771:ILE:HG12	1.89	0.54
1:A:11:PRO:HG2	1:A:14:HIS:HB2	1.89	0.54
1:A:746:LEU:CA	1:C:741:VAL:HG23	2.38	0.54
1:B:805:GLY:HA2	1:B:808:ARG:HE	1.73	0.54
1:C:739:GLY:O	1:E:734:ARG:NH2	2.40	0.54
1:C:758:GLU:O	1:C:762:VAL:HG22	2.07	0.54
1:D:364:GLU:CG	1:F:339:PRO:HG3	2.38	0.54
1:K:382:LEU:HD11	1:K:388:ILE:HG12	1.88	0.54
1:K:504:ARG:NH2	1:K:524:THR:OG1	2.38	0.54
1:K:768:MET:HA	1:K:771:ILE:HG12	1.89	0.54
1:L:768:MET:HA	1:L:771:ILE:HG12	1.89	0.54
1:M:626:ALA:HB3	1:M:635:VAL:HB	1.89	0.54
1:N:805:GLY:HA2	1:N:808:ARG:HE	1.73	0.54
1:O:793:LYS:HA	1:O:796:LYS:HB3	1.88	0.54
1:P:382:LEU:HD11	1:P:388:ILE:HG12	1.88	0.54
1:R:805:GLY:HA2	1:R:808:ARG:HE	1.73	0.54
1:V:506:LYS:O	1:V:507:ARG:NE	2.41	0.54
1:W:727:GLU:HA	1:W:730:ALA:HB3	1.89	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:BA:182:CYS:O	1:BA:190:ARG:N	2.35	0.54
1:DA:626:ALA:HB3	1:DA:635:VAL:HB	1.89	0.54
1:FA:504:ARG:NH2	1:FA:524:THR:OG1	2.38	0.54
1:HA:793:LYS:HA	1:HA:796:LYS:HB3	1.88	0.54
1:HA:805:GLY:HA2	1:HA:808:ARG:HE	1.73	0.54
1:JA:768:MET:HA	1:JA:771:ILE:HG12	1.89	0.54
1:KA:626:ALA:HB3	1:KA:635:VAL:HB	1.89	0.54
1:NA:11:PRO:HG2	1:NA:14:HIS:HB2	1.90	0.54
1:UA:167:VAL:HA	1:UA:203:ALA:HA	1.90	0.54
1:XA:504:ARG:NH2	1:XA:524:THR:OG1	2.38	0.54
1:YA:388:ILE:HA	1:YA:456:ARG:HA	1.88	0.54
1:CB:805:GLY:HA2	1:CB:808:ARG:HE	1.73	0.54
1:DB:285:LEU:HB2	1:DB:315:ARG:HG3	1.88	0.54
1:DB:716:VAL:HG21	1:EB:708:GLU:CG	2.37	0.54
1:EB:182:CYS:O	1:EB:190:ARG:N	2.35	0.54
1:EB:805:GLY:HA2	1:EB:808:ARG:HE	1.73	0.54
1:OB:790:VAL:CG1	1:PB:788:ALA:HB2	2.38	0.54
1:PB:805:GLY:HA2	1:PB:808:ARG:HE	1.73	0.54
1:QB:793:LYS:HA	1:QB:796:LYS:HB3	1.88	0.54
1:RB:533:ASP:OD2	1:RB:587:THR:OG1	2.17	0.54
1:TB:11:PRO:HG2	1:TB:14:HIS:HB2	1.90	0.54
1:VB:724:ALA:HA	1:WB:718:SER:OG	2.07	0.54
1:WB:382:LEU:HD11	1:WB:388:ILE:HG12	1.88	0.54
1:WB:727:GLU:HA	1:WB:730:ALA:HB3	1.89	0.54
1:XB:626:ALA:HB3	1:XB:635:VAL:HB	1.89	0.54
1:YB:626:ALA:HB3	1:YB:635:VAL:HB	1.89	0.54
1:ZB:138:MET:N	1:ZB:141:ASP:OD2	2.36	0.54
1:A:711:ALA:HB1	1:NB:721:ASN:N	2.22	0.54
1:A:805:GLY:HA2	1:A:808:ARG:HE	1.73	0.54
1:B:727:GLU:HA	1:B:730:ALA:HB3	1.89	0.54
1:C:388:ILE:HA	1:C:456:ARG:HA	1.88	0.54
1:D:171:ASN:HD22	1:F:234:ASN:N	1.82	0.54
1:D:382:LEU:HD11	1:D:388:ILE:HG12	1.88	0.54
1:D:684:ALA:HA	1:D:687:ARG:CZ	2.38	0.54
1:G:786:GLN:HB2	1:I:781:VAL:HG22	1.90	0.54
1:I:299:LYS:NZ	1:I:317:GLU:OE2	2.32	0.54
1:I:504:ARG:NH2	1:I:524:THR:OG1	2.38	0.54
1:J:167:VAL:HA	1:J:203:ALA:HA	1.90	0.54
1:M:684:ALA:HA	1:M:687:ARG:CZ	2.38	0.54
1:O:167:VAL:HA	1:O:203:ALA:HA	1.90	0.54
1:R:768:MET:HA	1:R:771:ILE:HG12	1.89	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:S:658:VAL:O	1:S:662:ILE:HG12	2.08	0.54
1:W:167:VAL:HA	1:W:203:ALA:HA	1.90	0.54
1:W:768:MET:HA	1:W:771:ILE:HG12	1.89	0.54
1:X:11:PRO:HG2	1:X:14:HIS:HB2	1.90	0.54
1:X:758:GLU:O	1:X:762:VAL:HG22	2.06	0.54
1:Y:684:ALA:HA	1:Y:687:ARG:CZ	2.38	0.54
1:Y:768:MET:HA	1:Y:771:ILE:HG12	1.89	0.54
1:Z:658:VAL:O	1:Z:662:ILE:HG12	2.08	0.54
1:AA:684:ALA:HA	1:AA:687:ARG:CZ	2.38	0.54
1:BA:11:PRO:HG2	1:BA:14:HIS:HB2	1.89	0.54
1:BA:167:VAL:HA	1:BA:203:ALA:HA	1.90	0.54
1:CA:727:GLU:HA	1:CA:730:ALA:HB3	1.89	0.54
1:GA:347:GLU:OE2	1:GA:351:HIS:NE2	2.39	0.54
1:HA:727:GLU:HA	1:HA:730:ALA:HB3	1.89	0.54
1:NA:167:VAL:HA	1:NA:203:ALA:HA	1.90	0.54
1:OA:167:VAL:HA	1:OA:203:ALA:HA	1.90	0.54
1:PA:382:LEU:HD11	1:PA:388:ILE:HG12	1.88	0.54
1:PA:793:LYS:HA	1:PA:796:LYS:HB3	1.88	0.54
1:PA:805:GLY:HA2	1:PA:808:ARG:HE	1.73	0.54
1:QA:805:GLY:HA2	1:QA:808:ARG:HE	1.73	0.54
1:SA:658:VAL:O	1:SA:662:ILE:HG12	2.08	0.54
1:TA:182:CYS:O	1:TA:190:ARG:N	2.35	0.54
1:TA:285:LEU:HB2	1:TA:315:ARG:HG3	1.88	0.54
1:UA:626:ALA:HB3	1:UA:635:VAL:HB	1.89	0.54
1:UA:658:VAL:O	1:UA:662:ILE:HG12	2.08	0.54
1:ZA:626:ALA:HB3	1:ZA:635:VAL:HB	1.89	0.54
1:CB:504:ARG:NH2	1:CB:524:THR:OG1	2.38	0.54
1:DB:727:GLU:HA	1:DB:730:ALA:HB3	1.89	0.54
1:EB:11:PRO:HG2	1:EB:14:HIS:HB2	1.90	0.54
1:FB:461:ARG:HB2	1:GB:473:TYR:CZ	2.43	0.54
1:FB:805:GLY:HA2	1:FB:808:ARG:HE	1.73	0.54
1:GB:658:VAL:O	1:GB:662:ILE:HG12	2.08	0.54
1:HB:706:LEU:HD21	1:IB:693:ILE:CD1	2.18	0.54
1:HB:768:MET:HA	1:HB:771:ILE:HG12	1.89	0.54
1:JB:768:MET:HE3	1:KB:763:LYS:CG	2.38	0.54
1:LB:717:GLU:CG	1:MB:707:LEU:HB3	2.35	0.54
1:MB:793:LYS:HA	1:MB:796:LYS:HB3	1.88	0.54
1:OB:758:GLU:O	1:OB:762:VAL:HG22	2.07	0.54
1:PB:758:GLU:O	1:PB:762:VAL:HG22	2.06	0.54
1:QB:658:VAL:O	1:QB:662:ILE:HG12	2.08	0.54
1:RB:768:MET:HA	1:RB:771:ILE:HG12	1.89	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:VB:626:ALA:HB3	1:VB:635:VAL:HB	1.89	0.54
1:WB:758:GLU:O	1:WB:762:VAL:HG22	2.06	0.54
1:YB:382:LEU:HD11	1:YB:388:ILE:HG12	1.88	0.54
1:YB:805:GLY:HA2	1:YB:808:ARG:HE	1.73	0.54
1:ZB:382:LEU:HD11	1:ZB:388:ILE:HG12	1.88	0.54
1:A:728:SER:HB3	1:C:718:SER:HB2	1.88	0.54
1:A:744:ALA:HB2	1:NB:754:GLU:HG3	1.87	0.54
1:C:347:GLU:OE2	1:C:351:HIS:NE2	2.39	0.54
1:D:299:LYS:NZ	1:D:317:GLU:OE2	2.32	0.54
1:D:662:ILE:CD1	1:F:654:LEU:HD21	2.38	0.54
1:D:703:ARG:HH21	1:F:693:ILE:HD11	1.73	0.54
1:H:506:LYS:O	1:H:507:ARG:NE	2.41	0.54
1:K:285:LEU:HB2	1:K:315:ARG:HG3	1.88	0.54
1:M:805:GLY:HA2	1:M:808:ARG:HE	1.73	0.54
1:N:299:LYS:NZ	1:N:317:GLU:OE2	2.32	0.54
1:N:684:ALA:HA	1:N:687:ARG:CZ	2.38	0.54
1:P:727:GLU:HA	1:P:730:ALA:HB3	1.89	0.54
1:P:798:MET:HE1	1:R:795:PHE:CD2	2.42	0.54
1:S:382:LEU:HD11	1:S:388:ILE:HG12	1.88	0.54
1:S:727:GLU:HA	1:S:730:ALA:HB3	1.89	0.54
1:S:805:GLY:HA2	1:S:808:ARG:HE	1.73	0.54
1:T:684:ALA:HA	1:T:687:ARG:CZ	2.38	0.54
1:Z:805:GLY:HA2	1:Z:808:ARG:HE	1.73	0.54
1:AA:626:ALA:HB3	1:AA:635:VAL:HB	1.89	0.54
1:CA:658:VAL:O	1:CA:662:ILE:HG12	2.08	0.54
1:CA:684:ALA:HA	1:CA:687:ARG:CZ	2.38	0.54
1:IA:11:PRO:HG2	1:IA:14:HIS:HB2	1.90	0.54
1:JA:684:ALA:HA	1:JA:687:ARG:CZ	2.38	0.54
1:LA:727:GLU:HA	1:LA:730:ALA:HB3	1.89	0.54
1:MA:167:VAL:HA	1:MA:203:ALA:HA	1.90	0.54
1:NA:805:GLY:HA2	1:NA:808:ARG:HE	1.73	0.54
1:OA:11:PRO:HG2	1:OA:14:HIS:HB2	1.90	0.54
1:OA:347:GLU:OE2	1:OA:351:HIS:NE2	2.39	0.54
1:PA:11:PRO:HG2	1:PA:14:HIS:HB2	1.89	0.54
1:PA:768:MET:HA	1:PA:771:ILE:HG12	1.89	0.54
1:QA:768:MET:HA	1:QA:771:ILE:HG12	1.89	0.54
1:SA:167:VAL:HA	1:SA:203:ALA:HA	1.90	0.54
1:UA:138:MET:N	1:UA:141:ASP:OD2	2.36	0.54
1:UA:768:MET:HA	1:UA:771:ILE:HG12	1.89	0.54
1:VA:793:LYS:HA	1:VA:796:LYS:HB3	1.88	0.54
1:VA:805:GLY:HA2	1:VA:808:ARG:HE	1.73	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:XA:684:ALA:HA	1:XA:687:ARG:CZ	2.38	0.54
1:YA:91:ARG:NH1	1:YA:94:GLN:OE1	2.38	0.54
1:ZA:724:ALA:HB2	1:BB:714:MET:SD	2.48	0.54
1:ZA:727:GLU:HA	1:ZA:730:ALA:HB3	1.89	0.54
1:AB:382:LEU:HD11	1:AB:388:ILE:HG12	1.88	0.54
1:DB:658:VAL:O	1:DB:662:ILE:HG12	2.08	0.54
1:DB:720:GLY:C	1:EB:711:ALA:CB	2.72	0.54
1:FB:382:LEU:HD11	1:FB:388:ILE:HG12	1.88	0.54
1:HB:805:GLY:HA2	1:HB:808:ARG:HE	1.73	0.54
1:JB:11:PRO:HG2	1:JB:14:HIS:HB2	1.90	0.54
1:JB:658:VAL:O	1:JB:662:ILE:HG12	2.08	0.54
1:JB:684:ALA:HA	1:JB:687:ARG:CZ	2.38	0.54
1:LB:17:HIS:NE2	1:LB:99:LEU:O	2.33	0.54
1:MB:506:LYS:O	1:MB:507:ARG:NE	2.41	0.54
1:MB:658:VAL:O	1:MB:662:ILE:HG12	2.08	0.54
1:OB:384:GLN:HB2	1:PB:474:ARG:CD	2.38	0.54
1:OB:666:THR:HB	1:PB:660:LEU:HD12	1.90	0.54
1:QB:382:LEU:HD11	1:QB:388:ILE:HG12	1.88	0.54
1:RB:684:ALA:HA	1:RB:687:ARG:CZ	2.38	0.54
1:RB:758:GLU:O	1:RB:762:VAL:HG22	2.07	0.54
1:VB:684:ALA:HA	1:VB:687:ARG:CZ	2.38	0.54
1:YB:684:ALA:HA	1:YB:687:ARG:CZ	2.38	0.54
1:ZB:504:ARG:NH2	1:ZB:524:THR:OG1	2.38	0.54
1:ZB:658:VAL:HG22	1:AC:534:HIS:HB3	1.81	0.54
1:ZB:727:GLU:HA	1:ZB:730:ALA:HB3	1.89	0.54
1:AC:506:LYS:O	1:AC:507:ARG:NE	2.41	0.54
1:AC:684:ALA:HA	1:AC:687:ARG:CZ	2.38	0.54
1:A:167:VAL:HA	1:A:203:ALA:HA	1.90	0.54
1:A:727:GLU:HA	1:A:730:ALA:HB3	1.88	0.54
1:C:11:PRO:HG2	1:C:14:HIS:HB2	1.90	0.54
1:C:138:MET:N	1:C:141:ASP:OD2	2.36	0.54
1:H:64:PRO:O	1:H:84:ARG:N	2.28	0.54
1:H:658:VAL:O	1:H:662:ILE:HG12	2.08	0.54
1:J:347:GLU:OE2	1:J:351:HIS:NE2	2.39	0.54
1:M:11:PRO:HG2	1:M:14:HIS:HB2	1.90	0.54
1:O:347:GLU:OE2	1:O:351:HIS:NE2	2.39	0.54
1:O:533:ASP:OD2	1:O:587:THR:OG1	2.17	0.54
1:O:768:MET:HA	1:O:771:ILE:HG12	1.89	0.54
1:Q:684:ALA:HA	1:Q:687:ARG:CZ	2.38	0.54
1:S:684:ALA:HA	1:S:687:ARG:CZ	2.38	0.54
1:T:658:VAL:O	1:T:662:ILE:HG12	2.08	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:V:684:ALA:HA	1:V:687:ARG:CZ	2.38	0.54
1:W:658:VAL:O	1:W:662:ILE:HG12	2.08	0.54
1:W:684:ALA:HA	1:W:687:ARG:CZ	2.38	0.54
1:BA:382:LEU:HD11	1:BA:388:ILE:HG12	1.88	0.54
1:CA:11:PRO:HG2	1:CA:14:HIS:HB2	1.90	0.54
1:DA:299:LYS:NZ	1:DA:317:GLU:OE2	2.32	0.54
1:EA:684:ALA:HA	1:EA:687:ARG:CZ	2.38	0.54
1:FA:658:VAL:O	1:FA:662:ILE:HG12	2.08	0.54
1:GA:182:CYS:O	1:GA:190:ARG:N	2.35	0.54
1:GA:506:LYS:O	1:GA:507:ARG:NE	2.41	0.54
1:HA:278:PRO:HD3	1:JA:297:GLY:O	2.08	0.54
1:IA:64:PRO:O	1:IA:84:ARG:N	2.28	0.54
1:JA:347:GLU:OE2	1:JA:351:HIS:NE2	2.39	0.54
1:KA:506:LYS:O	1:KA:507:ARG:NE	2.41	0.54
1:TA:506:LYS:O	1:TA:507:ARG:NE	2.41	0.54
1:XA:182:CYS:O	1:XA:190:ARG:N	2.36	0.54
1:BB:388:ILE:HA	1:BB:456:ARG:HA	1.88	0.54
1:CB:299:LYS:NZ	1:CB:317:GLU:OE2	2.32	0.54
1:DB:684:ALA:HA	1:DB:687:ARG:CZ	2.38	0.54
1:EB:167:VAL:HA	1:EB:203:ALA:HA	1.90	0.54
1:EB:706:LEU:HD21	1:FB:693:ILE:O	2.08	0.54
1:EB:768:MET:HA	1:EB:771:ILE:HG12	1.89	0.54
1:GB:285:LEU:HB2	1:GB:315:ARG:HG3	1.88	0.54
1:HB:182:CYS:O	1:HB:190:ARG:N	2.35	0.54
1:HB:504:ARG:NH2	1:HB:524:THR:OG1	2.38	0.54
1:HB:533:ASP:OD2	1:HB:587:THR:OG1	2.17	0.54
1:JB:167:VAL:HA	1:JB:203:ALA:HA	1.90	0.54
1:KB:626:ALA:HB3	1:KB:635:VAL:HB	1.89	0.54
1:NB:167:VAL:HA	1:NB:203:ALA:HA	1.90	0.54
1:OB:257:GLU:OE1	1:PB:244:ARG:HB3	2.08	0.54
1:PB:167:VAL:HA	1:PB:203:ALA:HA	1.90	0.54
1:RB:347:GLU:OE2	1:RB:351:HIS:NE2	2.39	0.54
1:RB:658:VAL:O	1:RB:662:ILE:HG12	2.08	0.54
1:SB:658:VAL:O	1:SB:662:ILE:HG12	2.08	0.54
1:TB:506:LYS:O	1:TB:507:ARG:NE	2.41	0.54
1:TB:592:HIS:CD2	1:UB:532:ALA:O	2.61	0.54
1:TB:643:VAL:HG22	1:UB:530:GLU:OE2	2.08	0.54
1:UB:11:PRO:HG2	1:UB:14:HIS:HB2	1.90	0.54
1:UB:506:LYS:O	1:UB:507:ARG:NE	2.41	0.54
1:UB:658:VAL:O	1:UB:662:ILE:HG12	2.08	0.54
1:UB:805:GLY:HA2	1:UB:808:ARG:HE	1.73	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:VB:167:VAL:HA	1:VB:203:ALA:HA	1.90	0.54
1:VB:658:VAL:O	1:VB:662:ILE:HG12	2.08	0.54
1:XB:658:VAL:O	1:XB:662:ILE:HG12	2.08	0.54
1:ZB:167:VAL:HA	1:ZB:203:ALA:HA	1.90	0.54
1:ZB:479:ARG:NH1	1:ZB:493:GLU:OE2	2.42	0.54
1:AC:167:VAL:HA	1:AC:203:ALA:HA	1.90	0.54
1:A:684:ALA:HA	1:A:687:ARG:CZ	2.38	0.53
1:A:715:ALA:HA	1:NB:724:ALA:CA	2.38	0.53
1:A:732:ALA:HB2	1:C:722:ALA:C	2.27	0.53
1:C:64:PRO:O	1:C:84:ARG:N	2.28	0.53
1:C:167:VAL:HA	1:C:203:ALA:HA	1.90	0.53
1:C:684:ALA:HA	1:C:687:ARG:CZ	2.38	0.53
1:D:167:VAL:HA	1:D:203:ALA:HA	1.90	0.53
1:D:461:ARG:NH1	1:F:473:TYR:CD2	2.71	0.53
1:E:138:MET:N	1:E:141:ASP:OD2	2.36	0.53
1:E:347:GLU:OE2	1:E:351:HIS:NE2	2.39	0.53
1:E:684:ALA:HA	1:E:687:ARG:CZ	2.38	0.53
1:J:626:ALA:HB3	1:J:635:VAL:HB	1.89	0.53
1:J:684:ALA:HA	1:J:687:ARG:CZ	2.38	0.53
1:K:299:LYS:NZ	1:K:317:GLU:OE2	2.32	0.53
1:K:506:LYS:O	1:K:507:ARG:NE	2.41	0.53
1:N:506:LYS:O	1:N:507:ARG:NE	2.41	0.53
1:O:11:PRO:HG2	1:O:14:HIS:HB2	1.90	0.53
1:P:805:GLY:HA2	1:P:808:ARG:HE	1.73	0.53
1:Q:479:ARG:NH1	1:Q:493:GLU:OE2	2.42	0.53
1:R:626:ALA:HB3	1:R:635:VAL:HB	1.89	0.53
1:T:504:ARG:NH2	1:T:524:THR:OG1	2.38	0.53
1:V:182:CYS:O	1:V:190:ARG:N	2.35	0.53
1:BA:684:ALA:HA	1:BA:687:ARG:CZ	2.38	0.53
1:EA:768:MET:HA	1:EA:771:ILE:HG12	1.89	0.53
1:IA:658:VAL:O	1:IA:662:ILE:HG12	2.08	0.53
1:LA:658:VAL:O	1:LA:662:ILE:HG12	2.08	0.53
1:LA:768:MET:HA	1:LA:771:ILE:HG12	1.89	0.53
1:MA:658:VAL:O	1:MA:662:ILE:HG12	2.08	0.53
1:MA:684:ALA:HA	1:MA:687:ARG:CZ	2.38	0.53
1:NA:479:ARG:NH1	1:NA:493:GLU:OE2	2.42	0.53
1:NA:658:VAL:O	1:NA:662:ILE:HG12	2.08	0.53
1:OA:658:VAL:O	1:OA:662:ILE:HG12	2.08	0.53
1:PA:506:LYS:O	1:PA:507:ARG:NE	2.41	0.53
1:SA:684:ALA:HA	1:SA:687:ARG:CZ	2.38	0.53
1:SA:805:GLY:HA2	1:SA:808:ARG:HE	1.73	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:UA:479:ARG:NH1	1:UA:493:GLU:OE2	2.42	0.53
1:VA:138:MET:N	1:VA:141:ASP:OD2	2.36	0.53
1:VA:479:ARG:NH1	1:VA:493:GLU:OE2	2.42	0.53
1:WA:182:CYS:O	1:WA:190:ARG:N	2.35	0.53
1:WA:285:LEU:HB2	1:WA:315:ARG:HG3	1.88	0.53
1:YA:138:MET:N	1:YA:141:ASP:OD2	2.36	0.53
1:ZA:167:VAL:HA	1:ZA:203:ALA:HA	1.90	0.53
1:AB:768:MET:HA	1:AB:771:ILE:HG12	1.89	0.53
1:CB:64:PRO:O	1:CB:84:ARG:N	2.28	0.53
1:DB:709:LEU:CD1	1:EB:701:LYS:HE3	2.38	0.53
1:FB:11:PRO:HG2	1:FB:14:HIS:HB2	1.90	0.53
1:FB:486:LEU:HB2	1:GB:473:TYR:CB	2.35	0.53
1:LB:593:LYS:CE	1:MB:532:ALA:HB1	2.38	0.53
1:MB:727:GLU:HA	1:MB:730:ALA:HB3	1.88	0.53
1:NB:479:ARG:NH1	1:NB:493:GLU:OE2	2.42	0.53
1:NB:768:MET:HA	1:NB:771:ILE:HG12	1.89	0.53
1:OB:805:GLY:HA2	1:OB:808:ARG:HE	1.73	0.53
1:PB:658:VAL:O	1:PB:662:ILE:HG12	2.08	0.53
1:QB:506:LYS:O	1:QB:507:ARG:NE	2.41	0.53
1:RB:479:ARG:NH1	1:RB:493:GLU:OE2	2.42	0.53
1:SB:11:PRO:HG2	1:SB:14:HIS:HB2	1.90	0.53
1:SB:626:ALA:HB3	1:SB:635:VAL:HB	1.89	0.53
1:UB:91:ARG:NH1	1:UB:94:GLN:OE1	2.38	0.53
1:VB:479:ARG:NH1	1:VB:493:GLU:OE2	2.42	0.53
1:AC:658:VAL:O	1:AC:662:ILE:HG12	2.08	0.53
1:A:786:GLN:CB	1:C:781:VAL:CB	2.86	0.53
1:A:786:GLN:OE1	1:C:777:LEU:CD2	2.56	0.53
1:C:14:HIS:CE1	1:C:47:PRO:HA	2.44	0.53
1:C:786:GLN:HB3	1:E:781:VAL:HG11	1.90	0.53
1:D:506:LYS:O	1:D:507:ARG:NE	2.41	0.53
1:D:805:GLY:HA2	1:D:808:ARG:HE	1.73	0.53
1:G:479:ARG:NH1	1:G:493:GLU:OE2	2.42	0.53
1:I:805:GLY:HA2	1:I:808:ARG:HE	1.73	0.53
1:J:479:ARG:NH1	1:J:493:GLU:OE2	2.41	0.53
1:M:64:PRO:O	1:M:84:ARG:N	2.28	0.53
1:O:684:ALA:HA	1:O:687:ARG:CZ	2.38	0.53
1:P:658:VAL:O	1:P:662:ILE:HG12	2.08	0.53
1:V:479:ARG:NH1	1:V:493:GLU:OE2	2.42	0.53
1:Y:388:ILE:HA	1:Y:456:ARG:HA	1.88	0.53
1:Y:626:ALA:HB3	1:Y:635:VAL:HB	1.89	0.53
1:DA:167:VAL:HA	1:DA:203:ALA:HA	1.90	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:GA:479:ARG:NH1	1:GA:493:GLU:OE2	2.42	0.53
1:GA:658:VAL:O	1:GA:662:ILE:HG12	2.08	0.53
1:HA:684:ALA:HA	1:HA:687:ARG:CZ	2.38	0.53
1:IA:275:THR:OG1	1:KA:296:LEU:HB2	2.08	0.53
1:KA:479:ARG:NH1	1:KA:493:GLU:OE2	2.42	0.53
1:LA:167:VAL:HA	1:LA:203:ALA:HA	1.90	0.53
1:MA:11:PRO:HG2	1:MA:14:HIS:HB2	1.89	0.53
1:MA:768:MET:HA	1:MA:771:ILE:HG12	1.89	0.53
1:NA:684:ALA:HA	1:NA:687:ARG:CZ	2.38	0.53
1:QA:167:VAL:HA	1:QA:203:ALA:HA	1.90	0.53
1:QA:504:ARG:NH2	1:QA:524:THR:OG1	2.38	0.53
1:SA:793:LYS:HA	1:SA:796:LYS:HB3	1.88	0.53
1:TA:684:ALA:HA	1:TA:687:ARG:CZ	2.38	0.53
1:WA:167:VAL:HA	1:WA:203:ALA:HA	1.90	0.53
1:YA:793:LYS:HA	1:YA:796:LYS:HB3	1.88	0.53
1:ZA:479:ARG:NH1	1:ZA:493:GLU:OE2	2.42	0.53
1:ZA:684:ALA:HA	1:ZA:687:ARG:CZ	2.38	0.53
1:EB:658:VAL:O	1:EB:662:ILE:HG12	2.08	0.53
1:GB:11:PRO:HG2	1:GB:14:HIS:HB2	1.90	0.53
1:GB:479:ARG:NH1	1:GB:493:GLU:OE2	2.42	0.53
1:GB:684:ALA:HA	1:GB:687:ARG:CZ	2.38	0.53
1:HB:167:VAL:HA	1:HB:203:ALA:HA	1.90	0.53
1:IB:167:VAL:HA	1:IB:203:ALA:HA	1.90	0.53
1:IB:299:LYS:NZ	1:IB:317:GLU:OE2	2.32	0.53
1:KB:167:VAL:HA	1:KB:203:ALA:HA	1.90	0.53
1:LB:14:HIS:CE1	1:LB:47:PRO:HA	2.44	0.53
1:MB:684:ALA:HA	1:MB:687:ARG:CZ	2.38	0.53
1:NB:727:GLU:HA	1:NB:730:ALA:HB3	1.89	0.53
1:OB:32:PRO:HG3	1:PB:24:ASN:HB3	1.90	0.53
1:QB:684:ALA:HA	1:QB:687:ARG:CZ	2.38	0.53
1:SB:167:VAL:HA	1:SB:203:ALA:HA	1.90	0.53
1:SB:652:ASP:HB3	1:TB:649:ARG:HH12	1.72	0.53
1:SB:684:ALA:HA	1:SB:687:ARG:CZ	2.38	0.53
1:XB:506:LYS:O	1:XB:507:ARG:NE	2.41	0.53
1:YB:11:PRO:HG2	1:YB:14:HIS:HB2	1.90	0.53
1:A:14:HIS:CE1	1:A:47:PRO:HA	2.44	0.53
1:A:626:ALA:HB3	1:A:635:VAL:HB	1.89	0.53
1:A:687:ARG:NH1	1:C:679:ARG:NH1	2.56	0.53
1:A:717:GLU:CB	1:C:707:LEU:HD22	2.39	0.53
1:A:753:ILE:HG23	1:C:745:LYS:CA	2.37	0.53
1:A:782:SER:HB2	1:C:777:LEU:CD2	2.26	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:533:ASP:CB	1:AC:661:ALA:HB1	2.39	0.53
1:D:11:PRO:HG2	1:D:14:HIS:HB2	1.90	0.53
1:D:51:VAL:CA	1:F:85:HIS:HD2	2.20	0.53
1:D:150:THR:HG1	1:F:138:MET:CG	2.08	0.53
1:D:182:CYS:O	1:D:190:ARG:N	2.35	0.53
1:D:654:LEU:HD13	1:F:534:HIS:HD2	1.73	0.53
1:E:626:ALA:HB3	1:E:635:VAL:HB	1.89	0.53
1:F:167:VAL:HA	1:F:203:ALA:HA	1.90	0.53
1:G:626:ALA:HB3	1:G:635:VAL:HB	1.89	0.53
1:H:167:VAL:HA	1:H:203:ALA:HA	1.90	0.53
1:L:684:ALA:HA	1:L:687:ARG:CZ	2.38	0.53
1:M:479:ARG:NH1	1:M:493:GLU:OE2	2.42	0.53
1:P:768:MET:HA	1:P:771:ILE:HG12	1.89	0.53
1:Q:805:GLY:HA2	1:Q:808:ARG:HE	1.73	0.53
1:R:640:VAL:HG13	1:T:580:ARG:NH2	2.23	0.53
1:R:658:VAL:O	1:R:662:ILE:HG12	2.08	0.53
1:S:11:PRO:HG2	1:S:14:HIS:HB2	1.90	0.53
1:X:479:ARG:NH1	1:X:493:GLU:OE2	2.42	0.53
1:Y:91:ARG:NH1	1:Y:94:GLN:OE1	2.38	0.53
1:Y:479:ARG:NH1	1:Y:493:GLU:OE2	2.42	0.53
1:Z:11:PRO:HG2	1:Z:14:HIS:HB2	1.90	0.53
1:AA:479:ARG:NH1	1:AA:493:GLU:OE2	2.42	0.53
1:BA:626:ALA:HB3	1:BA:635:VAL:HB	1.89	0.53
1:CA:17:HIS:NE2	1:CA:99:LEU:O	2.33	0.53
1:DA:479:ARG:NH1	1:DA:493:GLU:OE2	2.42	0.53
1:EA:167:VAL:HA	1:EA:203:ALA:HA	1.90	0.53
1:EA:805:GLY:HA2	1:EA:808:ARG:HE	1.73	0.53
1:GA:14:HIS:CE1	1:GA:47:PRO:HA	2.44	0.53
1:HA:11:PRO:HG2	1:HA:14:HIS:HB2	1.89	0.53
1:HA:138:MET:N	1:HA:141:ASP:OD2	2.36	0.53
1:JA:17:HIS:NE2	1:JA:99:LEU:O	2.33	0.53
1:JA:479:ARG:NH1	1:JA:493:GLU:OE2	2.42	0.53
1:KA:167:VAL:HA	1:KA:203:ALA:HA	1.90	0.53
1:LA:11:PRO:HG2	1:LA:14:HIS:HB2	1.90	0.53
1:MA:479:ARG:NH1	1:MA:493:GLU:OE2	2.42	0.53
1:OA:479:ARG:NH1	1:OA:493:GLU:OE2	2.42	0.53
1:RA:11:PRO:HG2	1:RA:14:HIS:HB2	1.90	0.53
1:RA:658:VAL:O	1:RA:662:ILE:HG12	2.08	0.53
1:TA:91:ARG:NH1	1:TA:94:GLN:OE1	2.38	0.53
1:TA:658:VAL:O	1:TA:662:ILE:HG12	2.08	0.53
1:UA:14:HIS:CE1	1:UA:47:PRO:HA	2.44	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:UA:533:ASP:OD2	1:UA:587:THR:OG1	2.17	0.53
1:VA:17:HIS:NE2	1:VA:99:LEU:O	2.33	0.53
1:VA:167:VAL:HA	1:VA:203:ALA:HA	1.90	0.53
1:WA:17:HIS:NE2	1:WA:99:LEU:O	2.33	0.53
1:ZA:768:MET:HA	1:ZA:771:ILE:HG12	1.89	0.53
1:AB:805:GLY:HA2	1:AB:808:ARG:HE	1.73	0.53
1:BB:167:VAL:HA	1:BB:203:ALA:HA	1.90	0.53
1:CB:658:VAL:O	1:CB:662:ILE:HG12	2.08	0.53
1:DB:17:HIS:NE2	1:DB:99:LEU:O	2.34	0.53
1:DB:805:GLY:HA2	1:DB:808:ARG:HE	1.73	0.53
1:EB:684:ALA:HA	1:EB:687:ARG:CZ	2.38	0.53
1:FB:648:GLN:HA	1:FB:651:ARG:HD2	1.91	0.53
1:HB:658:VAL:O	1:HB:662:ILE:HG12	2.08	0.53
1:IB:11:PRO:HG2	1:IB:14:HIS:HB2	1.90	0.53
1:JB:479:ARG:NH1	1:JB:493:GLU:OE2	2.42	0.53
1:JB:626:ALA:HB3	1:JB:635:VAL:HB	1.89	0.53
1:KB:479:ARG:NH1	1:KB:493:GLU:OE2	2.42	0.53
1:LB:385:ASN:ND2	1:MB:474:ARG:HA	2.23	0.53
1:LB:658:VAL:O	1:LB:662:ILE:HG12	2.08	0.53
1:LB:670:GLU:HB2	1:MB:664:ILE:CG2	2.39	0.53
1:LB:724:ALA:CB	1:MB:715:ALA:CB	2.82	0.53
1:LB:724:ALA:C	1:MB:718:SER:OG	2.47	0.53
1:MB:533:ASP:OD2	1:MB:587:THR:OG1	2.17	0.53
1:OB:273:ILE:HG21	1:PB:296:LEU:HD21	1.88	0.53
1:PB:11:PRO:HG2	1:PB:14:HIS:HB2	1.89	0.53
1:QB:11:PRO:HG2	1:QB:14:HIS:HB2	1.90	0.53
1:SB:652:ASP:HB3	1:TB:649:ARG:NH1	2.23	0.53
1:TB:167:VAL:HA	1:TB:203:ALA:HA	1.90	0.53
1:WB:805:GLY:HA2	1:WB:808:ARG:HE	1.73	0.53
1:AC:14:HIS:CE1	1:AC:47:PRO:HA	2.44	0.53
1:AC:805:GLY:HA2	1:AC:808:ARG:HE	1.73	0.53
1:A:479:ARG:NH1	1:A:493:GLU:OE2	2.42	0.53
1:B:64:PRO:O	1:B:84:ARG:N	2.28	0.53
1:B:167:VAL:HA	1:B:203:ALA:HA	1.90	0.53
1:B:810:LEU:HA	1:D:811:ALA:HB1	1.90	0.53
1:C:801:ALA:CB	1:E:796:LYS:NZ	2.70	0.53
1:E:11:PRO:HG2	1:E:14:HIS:HB2	1.90	0.53
1:E:479:ARG:NH1	1:E:493:GLU:OE2	2.42	0.53
1:G:138:MET:N	1:G:141:ASP:OD2	2.36	0.53
1:G:347:GLU:OE2	1:G:351:HIS:NE2	2.39	0.53
1:H:768:MET:HA	1:H:771:ILE:HG12	1.89	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:805:GLY:HA2	1:H:808:ARG:HE	1.73	0.53
1:I:347:GLU:OE2	1:I:351:HIS:NE2	2.39	0.53
1:I:758:GLU:O	1:I:762:VAL:HG22	2.07	0.53
1:L:167:VAL:HA	1:L:203:ALA:HA	1.90	0.53
1:N:14:HIS:CE1	1:N:47:PRO:HA	2.44	0.53
1:N:138:MET:N	1:N:141:ASP:OD2	2.36	0.53
1:O:805:GLY:HA2	1:O:808:ARG:HE	1.73	0.53
1:P:684:ALA:HA	1:P:687:ARG:CZ	2.38	0.53
1:P:798:MET:SD	1:R:795:PHE:CD2	3.01	0.53
1:R:167:VAL:HA	1:R:203:ALA:HA	1.90	0.53
1:S:479:ARG:NH1	1:S:493:GLU:OE2	2.42	0.53
1:S:626:ALA:HB3	1:S:635:VAL:HB	1.89	0.53
1:T:11:PRO:HG2	1:T:14:HIS:HB2	1.90	0.53
1:T:14:HIS:CE1	1:T:47:PRO:HA	2.44	0.53
1:CA:182:CYS:O	1:CA:190:ARG:N	2.35	0.53
1:CA:805:GLY:HA2	1:CA:808:ARG:HE	1.73	0.53
1:DA:684:ALA:HA	1:DA:687:ARG:CZ	2.38	0.53
1:FA:479:ARG:NH1	1:FA:493:GLU:OE2	2.42	0.53
1:FA:805:GLY:HA2	1:FA:808:ARG:HE	1.73	0.53
1:IA:648:GLN:HA	1:IA:651:ARG:HD2	1.91	0.53
1:KA:14:HIS:CE1	1:KA:47:PRO:HA	2.44	0.53
1:LA:805:GLY:HA2	1:LA:808:ARG:HE	1.73	0.53
1:MA:626:ALA:HB3	1:MA:635:VAL:HB	1.89	0.53
1:NA:17:HIS:NE2	1:NA:99:LEU:O	2.33	0.53
1:QA:411:ASP:OD1	1:QA:411:ASP:N	2.42	0.53
1:QA:479:ARG:NH1	1:QA:493:GLU:OE2	2.42	0.53
1:UA:504:ARG:NH2	1:UA:524:THR:OG1	2.38	0.53
1:UA:648:GLN:HA	1:UA:651:ARG:HD2	1.91	0.53
1:VA:11:PRO:HG2	1:VA:14:HIS:HB2	1.90	0.53
1:WA:658:VAL:O	1:WA:662:ILE:HG12	2.08	0.53
1:AB:11:PRO:HG2	1:AB:14:HIS:HB2	1.90	0.53
1:AB:347:GLU:OE2	1:AB:351:HIS:NE2	2.39	0.53
1:AB:479:ARG:NH1	1:AB:493:GLU:OE2	2.42	0.53
1:EB:17:HIS:NE2	1:EB:99:LEU:O	2.33	0.53
1:FB:14:HIS:CE1	1:FB:47:PRO:HA	2.44	0.53
1:FB:464:HIS:CD2	1:GB:469:GLN:CD	2.82	0.53
1:FB:484:PRO:O	1:GB:471:TYR:CD2	2.61	0.53
1:GB:805:GLY:HA2	1:GB:808:ARG:HE	1.73	0.53
1:HB:506:LYS:O	1:HB:507:ARG:NE	2.41	0.53
1:HB:648:GLN:HA	1:HB:651:ARG:HD2	1.91	0.53
1:IB:14:HIS:CE1	1:IB:47:PRO:HA	2.44	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:IB:479:ARG:NH1	1:IB:493:GLU:OE2	2.42	0.53
1:MB:742:LEU:HB3	1:NB:734:ARG:NH2	2.23	0.53
1:NB:14:HIS:CE1	1:NB:47:PRO:HA	2.44	0.53
1:OB:257:GLU:HB2	1:PB:245:THR:CA	2.38	0.53
1:OB:279:ARG:HH22	1:PB:299:LYS:CD	2.21	0.53
1:QB:813:ALA:HB2	1:RB:811:ALA:CB	2.39	0.53
1:RB:484:PRO:O	1:SB:473:TYR:HE1	1.92	0.53
1:SB:14:HIS:CE1	1:SB:47:PRO:HA	2.44	0.53
1:TB:684:ALA:HA	1:TB:687:ARG:CZ	2.38	0.53
1:UB:746:LEU:HD22	1:VB:740:SER:HG	1.73	0.53
1:VB:640:VAL:CG1	1:WB:580:ARG:NH2	2.66	0.53
1:WB:479:ARG:NH1	1:WB:493:GLU:OE2	2.42	0.53
1:XB:347:GLU:OE2	1:XB:351:HIS:NE2	2.39	0.53
1:YB:479:ARG:NH1	1:YB:493:GLU:OE2	2.42	0.53
1:YB:648:GLN:HA	1:YB:651:ARG:HD2	1.91	0.53
1:ZB:506:LYS:O	1:ZB:507:ARG:NE	2.41	0.53
1:ZB:805:GLY:HA2	1:ZB:808:ARG:HE	1.73	0.53
1:A:658:VAL:O	1:A:662:ILE:HG12	2.08	0.53
1:C:768:MET:HA	1:C:771:ILE:HG12	1.89	0.53
1:D:115:VAL:O	1:F:138:MET:CE	2.57	0.53
1:D:755:THR:O	1:D:759:LEU:HB2	2.09	0.53
1:E:768:MET:HA	1:E:771:ILE:HG12	1.89	0.53
1:G:648:GLN:HA	1:G:651:ARG:HD2	1.91	0.53
1:H:299:LYS:NZ	1:H:317:GLU:OE2	2.32	0.53
1:H:755:THR:O	1:H:759:LEU:HB2	2.09	0.53
1:I:506:LYS:O	1:I:507:ARG:NE	2.41	0.53
1:L:626:ALA:HB3	1:L:635:VAL:HB	1.89	0.53
1:O:479:ARG:NH1	1:O:493:GLU:OE2	2.42	0.53
1:P:626:ALA:HB3	1:P:635:VAL:HB	1.89	0.53
1:R:684:ALA:HA	1:R:687:ARG:CZ	2.38	0.53
1:S:167:VAL:HA	1:S:203:ALA:HA	1.90	0.53
1:T:626:ALA:HB3	1:T:635:VAL:HB	1.89	0.53
1:Y:167:VAL:HA	1:Y:203:ALA:HA	1.90	0.53
1:Y:504:ARG:NH2	1:Y:524:THR:OG1	2.38	0.53
1:Z:167:VAL:HA	1:Z:203:ALA:HA	1.90	0.53
1:Z:411:ASP:OD1	1:Z:411:ASP:N	2.42	0.53
1:Z:479:ARG:NH1	1:Z:493:GLU:OE2	2.42	0.53
1:Z:768:MET:HA	1:Z:771:ILE:HG12	1.89	0.53
1:AA:14:HIS:CE1	1:AA:47:PRO:HA	2.44	0.53
1:AA:805:GLY:HA2	1:AA:808:ARG:HE	1.73	0.53
1:CA:14:HIS:CE1	1:CA:47:PRO:HA	2.44	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:DA:658:VAL:O	1:DA:662:ILE:HG12	2.08	0.53
1:EA:648:GLN:HA	1:EA:651:ARG:HD2	1.91	0.53
1:JA:658:VAL:O	1:JA:662:ILE:HG12	2.08	0.53
1:KA:648:GLN:HA	1:KA:651:ARG:HD2	1.91	0.53
1:NA:648:GLN:HA	1:NA:651:ARG:HD2	1.91	0.53
1:OA:506:LYS:O	1:OA:507:ARG:NE	2.41	0.53
1:OA:684:ALA:HA	1:OA:687:ARG:CZ	2.38	0.53
1:PA:167:VAL:HA	1:PA:203:ALA:HA	1.90	0.53
1:PA:479:ARG:NH1	1:PA:493:GLU:OE2	2.42	0.53
1:PA:658:VAL:O	1:PA:662:ILE:HG12	2.08	0.53
1:SA:479:ARG:NH1	1:SA:493:GLU:OE2	2.42	0.53
1:TA:14:HIS:CE1	1:TA:47:PRO:HA	2.44	0.53
1:TA:347:GLU:OE2	1:TA:351:HIS:NE2	2.39	0.53
1:TA:479:ARG:NH1	1:TA:493:GLU:OE2	2.42	0.53
1:VA:658:VAL:O	1:VA:662:ILE:HG12	2.08	0.53
1:VA:755:THR:O	1:VA:759:LEU:HB2	2.09	0.53
1:WA:14:HIS:CE1	1:WA:47:PRO:HA	2.44	0.53
1:YA:11:PRO:HG2	1:YA:14:HIS:HB2	1.90	0.53
1:AB:138:MET:N	1:AB:141:ASP:OD2	2.36	0.53
1:AB:684:ALA:HA	1:AB:687:ARG:CZ	2.38	0.53
1:CB:411:ASP:OD1	1:CB:411:ASP:N	2.42	0.53
1:CB:479:ARG:NH1	1:CB:493:GLU:OE2	2.42	0.53
1:CB:684:ALA:HA	1:CB:687:ARG:CZ	2.38	0.53
1:EB:648:GLN:HA	1:EB:651:ARG:HD2	1.91	0.53
1:FB:91:ARG:NH1	1:FB:94:GLN:OE1	2.38	0.53
1:GB:504:ARG:NH2	1:GB:524:THR:OG1	2.38	0.53
1:IB:648:GLN:HA	1:IB:651:ARG:HD2	1.91	0.53
1:IB:768:MET:HA	1:IB:771:ILE:HG12	1.89	0.53
1:KB:17:HIS:NE2	1:KB:99:LEU:O	2.33	0.53
1:LB:673:ALA:HB3	1:MB:664:ILE:HB	1.91	0.53
1:MB:167:VAL:HA	1:MB:203:ALA:HA	1.90	0.53
1:NB:11:PRO:HG2	1:NB:14:HIS:HB2	1.89	0.53
1:QB:14:HIS:CE1	1:QB:47:PRO:HA	2.44	0.53
1:TB:658:VAL:O	1:TB:662:ILE:HG12	2.08	0.53
1:UB:14:HIS:CE1	1:UB:47:PRO:HA	2.44	0.53
1:VB:768:MET:HA	1:VB:771:ILE:HG12	1.89	0.53
1:VB:805:GLY:HA2	1:VB:808:ARG:HE	1.73	0.53
1:WB:14:HIS:CE1	1:WB:47:PRO:HA	2.44	0.53
1:WB:182:CYS:O	1:WB:190:ARG:N	2.36	0.53
1:YB:347:GLU:OE2	1:YB:351:HIS:NE2	2.39	0.53
1:YB:506:LYS:O	1:YB:507:ARG:NE	2.41	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:YB:768:MET:HA	1:YB:771:ILE:HG12	1.89	0.53
1:A:17:HIS:NE2	1:A:99:LEU:O	2.34	0.53
1:A:648:GLN:HA	1:A:651:ARG:HD2	1.91	0.53
1:A:755:THR:O	1:A:759:LEU:HB2	2.09	0.53
1:C:182:CYS:O	1:C:190:ARG:N	2.35	0.53
1:C:479:ARG:NH1	1:C:493:GLU:OE2	2.42	0.53
1:C:724:ALA:C	1:E:718:SER:OG	2.46	0.53
1:E:755:THR:O	1:E:759:LEU:HB2	2.09	0.53
1:F:11:PRO:HG2	1:F:14:HIS:HB2	1.90	0.53
1:F:479:ARG:NH1	1:F:493:GLU:OE2	2.42	0.53
1:F:684:ALA:HA	1:F:687:ARG:CZ	2.38	0.53
1:K:479:ARG:NH1	1:K:493:GLU:OE2	2.42	0.53
1:K:684:ALA:HA	1:K:687:ARG:CZ	2.38	0.53
1:L:506:LYS:O	1:L:507:ARG:NE	2.41	0.53
1:M:14:HIS:CE1	1:M:47:PRO:HA	2.44	0.53
1:M:167:VAL:HA	1:M:203:ALA:HA	1.90	0.53
1:O:755:THR:O	1:O:759:LEU:HB2	2.09	0.53
1:R:11:PRO:HG2	1:R:14:HIS:HB2	1.90	0.53
1:R:14:HIS:CE1	1:R:47:PRO:HA	2.44	0.53
1:R:479:ARG:NH1	1:R:493:GLU:OE2	2.42	0.53
1:R:655:GLN:HG2	1:T:649:ARG:CD	2.27	0.53
1:S:648:GLN:HA	1:S:651:ARG:HD2	1.91	0.53
1:V:14:HIS:CE1	1:V:47:PRO:HA	2.44	0.53
1:V:658:VAL:O	1:V:662:ILE:HG12	2.08	0.53
1:W:17:HIS:NE2	1:W:99:LEU:O	2.34	0.53
1:X:658:VAL:O	1:X:662:ILE:HG12	2.08	0.53
1:Z:64:PRO:O	1:Z:84:ARG:N	2.28	0.53
1:Z:684:ALA:HA	1:Z:687:ARG:CZ	2.38	0.53
1:CA:506:LYS:O	1:CA:507:ARG:NE	2.41	0.53
1:EA:64:PRO:O	1:EA:84:ARG:N	2.28	0.53
1:GA:805:GLY:HA2	1:GA:808:ARG:HE	1.73	0.53
1:HA:479:ARG:NH1	1:HA:493:GLU:OE2	2.42	0.53
1:HA:648:GLN:HA	1:HA:651:ARG:HD2	1.91	0.53
1:HA:755:THR:O	1:HA:759:LEU:HB2	2.09	0.53
1:JA:11:PRO:HG2	1:JA:14:HIS:HB2	1.89	0.53
1:KA:684:ALA:HA	1:KA:687:ARG:CZ	2.38	0.53
1:LA:506:LYS:O	1:LA:507:ARG:NE	2.41	0.53
1:NA:347:GLU:OE2	1:NA:351:HIS:NE2	2.39	0.53
1:QA:755:THR:O	1:QA:759:LEU:HB2	2.09	0.53
1:SA:14:HIS:CE1	1:SA:47:PRO:HA	2.44	0.53
1:WA:805:GLY:HA2	1:WA:808:ARG:HE	1.73	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:YA:411:ASP:OD1	1:YA:411:ASP:N	2.42	0.53
1:YA:506:LYS:O	1:YA:507:ARG:NE	2.41	0.53
1:AB:626:ALA:HB3	1:AB:635:VAL:HB	1.89	0.53
1:BB:14:HIS:CE1	1:BB:47:PRO:HA	2.44	0.53
1:BB:735:ILE:HA	1:BB:738:GLU:HG3	1.91	0.53
1:DB:506:LYS:O	1:DB:507:ARG:NE	2.41	0.53
1:IB:504:ARG:NH2	1:IB:524:THR:OG1	2.38	0.53
1:JB:648:GLN:HA	1:JB:651:ARG:HD2	1.91	0.53
1:KB:11:PRO:HG2	1:KB:14:HIS:HB2	1.89	0.53
1:KB:14:HIS:CE1	1:KB:47:PRO:HA	2.44	0.53
1:KB:648:GLN:HA	1:KB:651:ARG:HD2	1.91	0.53
1:LB:167:VAL:HA	1:LB:203:ALA:HA	1.90	0.53
1:MB:14:HIS:CE1	1:MB:47:PRO:HA	2.44	0.53
1:OB:94:GLN:O	1:PB:85:HIS:HD2	1.90	0.53
1:OB:658:VAL:O	1:OB:662:ILE:HG12	2.08	0.53
1:OB:684:ALA:HA	1:OB:687:ARG:CZ	2.38	0.53
1:OB:779:LEU:HD22	1:PB:777:LEU:HD12	1.91	0.53
1:RB:91:ARG:NH1	1:RB:94:GLN:OE1	2.39	0.53
1:RB:648:GLN:HA	1:RB:651:ARG:HD2	1.91	0.53
1:WB:684:ALA:HA	1:WB:687:ARG:CZ	2.38	0.53
1:XB:684:ALA:HA	1:XB:687:ARG:CZ	2.38	0.53
1:YB:91:ARG:NH1	1:YB:94:GLN:OE1	2.39	0.53
1:ZB:11:PRO:HG2	1:ZB:14:HIS:HB2	1.90	0.53
1:ZB:91:ARG:NH1	1:ZB:94:GLN:OE1	2.39	0.53
1:ZB:648:GLN:HA	1:ZB:651:ARG:HD2	1.91	0.53
1:ZB:786:GLN:CD	1:AC:781:VAL:HG22	2.28	0.53
1:A:575:ILE:HD11	1:A:635:VAL:HG21	1.91	0.53
1:A:765:VAL:HG13	1:C:755:THR:HB	1.84	0.53
1:B:479:ARG:NH1	1:B:493:GLU:OE2	2.42	0.53
1:B:684:ALA:HA	1:B:687:ARG:CZ	2.38	0.53
1:B:768:MET:HA	1:B:771:ILE:HG12	1.89	0.53
1:D:218:ALA:HB2	1:D:260:VAL:HG22	1.91	0.53
1:F:14:HIS:CE1	1:F:47:PRO:HA	2.44	0.53
1:F:658:VAL:O	1:F:662:ILE:HG12	2.08	0.53
1:G:182:CYS:O	1:G:190:ARG:N	2.35	0.53
1:H:648:GLN:HA	1:H:651:ARG:HD2	1.91	0.53
1:I:11:PRO:HG2	1:I:14:HIS:HB2	1.90	0.53
1:I:479:ARG:NH1	1:I:493:GLU:OE2	2.42	0.53
1:J:648:GLN:HA	1:J:651:ARG:HD2	1.91	0.53
1:L:14:HIS:CE1	1:L:47:PRO:HA	2.44	0.53
1:L:735:ILE:HA	1:L:738:GLU:HG3	1.91	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:O:658:VAL:O	1:O:662:ILE:HG12	2.08	0.53
1:Q:506:LYS:O	1:Q:507:ARG:NE	2.41	0.53
1:S:755:THR:O	1:S:759:LEU:HB2	2.09	0.53
1:T:479:ARG:NH1	1:T:493:GLU:OE2	2.42	0.53
1:V:167:VAL:HA	1:V:203:ALA:HA	1.90	0.53
1:W:626:ALA:HB3	1:W:635:VAL:HB	1.89	0.53
1:Z:755:THR:O	1:Z:759:LEU:HB2	2.09	0.53
1:AA:11:PRO:HG2	1:AA:14:HIS:HB2	1.90	0.53
1:AA:658:VAL:O	1:AA:662:ILE:HG12	2.08	0.53
1:BA:14:HIS:CE1	1:BA:47:PRO:HA	2.44	0.53
1:BA:411:ASP:N	1:BA:411:ASP:OD1	2.42	0.53
1:BA:682:GLN:OE1	1:BA:685:ARG:NH2	2.41	0.53
1:GA:684:ALA:HA	1:GA:687:ARG:CZ	2.38	0.53
1:IA:479:ARG:NH1	1:IA:493:GLU:OE2	2.42	0.53
1:IA:522:PHE:CE2	1:KA:566:ASP:HB3	2.44	0.53
1:IA:684:ALA:HA	1:IA:687:ARG:CZ	2.38	0.53
1:JA:167:VAL:HA	1:JA:203:ALA:HA	1.90	0.53
1:KA:735:ILE:HA	1:KA:738:GLU:HG3	1.91	0.53
1:KA:755:THR:O	1:KA:759:LEU:HB2	2.09	0.53
1:LA:14:HIS:CE1	1:LA:47:PRO:HA	2.44	0.53
1:LA:479:ARG:NH1	1:LA:493:GLU:OE2	2.42	0.53
1:LA:755:THR:O	1:LA:759:LEU:HB2	2.09	0.53
1:NA:91:ARG:NH1	1:NA:94:GLN:OE1	2.39	0.53
1:PA:684:ALA:HA	1:PA:687:ARG:CZ	2.39	0.53
1:PA:755:THR:O	1:PA:759:LEU:HB2	2.09	0.53
1:RA:218:ALA:HB2	1:RA:260:VAL:HG22	1.91	0.53
1:RA:684:ALA:HA	1:RA:687:ARG:CZ	2.38	0.53
1:SA:735:ILE:HA	1:SA:738:GLU:HG3	1.91	0.53
1:TA:17:HIS:NE2	1:TA:99:LEU:O	2.34	0.53
1:TA:648:GLN:HA	1:TA:651:ARG:HD2	1.91	0.53
1:UA:11:PRO:HG2	1:UA:14:HIS:HB2	1.90	0.53
1:VA:506:LYS:O	1:VA:507:ARG:NE	2.41	0.53
1:WA:768:MET:HA	1:WA:771:ILE:HG12	1.89	0.53
1:YA:167:VAL:HA	1:YA:203:ALA:HA	1.90	0.53
1:YA:479:ARG:NH1	1:YA:493:GLU:OE2	2.42	0.53
1:YA:658:VAL:O	1:YA:662:ILE:HG12	2.08	0.53
1:YA:684:ALA:HA	1:YA:687:ARG:CZ	2.38	0.53
1:YA:755:THR:O	1:YA:759:LEU:HB2	2.09	0.53
1:ZA:648:GLN:HA	1:ZA:651:ARG:HD2	1.91	0.53
1:AB:658:VAL:O	1:AB:662:ILE:HG12	2.08	0.53
1:BB:479:ARG:NH1	1:BB:493:GLU:OE2	2.42	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:BB:768:MET:HA	1:BB:771:ILE:HG12	1.89	0.53
1:CB:506:LYS:O	1:CB:507:ARG:NE	2.41	0.53
1:CB:755:THR:O	1:CB:759:LEU:HB2	2.09	0.53
1:DB:91:ARG:NH1	1:DB:94:GLN:OE1	2.39	0.53
1:EB:479:ARG:NH1	1:EB:493:GLU:OE2	2.42	0.53
1:GB:575:ILE:HD11	1:GB:635:VAL:HG21	1.91	0.53
1:GB:755:THR:O	1:GB:759:LEU:HB2	2.09	0.53
1:HB:347:GLU:OE2	1:HB:351:HIS:NE2	2.39	0.53
1:HB:479:ARG:NH1	1:HB:493:GLU:OE2	2.42	0.53
1:LB:735:ILE:HA	1:LB:738:GLU:HG3	1.91	0.53
1:LB:768:MET:HA	1:LB:771:ILE:HG12	1.89	0.53
1:LB:805:GLY:HA2	1:LB:808:ARG:HE	1.73	0.53
1:OB:464:HIS:CE1	1:PB:496:THR:CA	2.92	0.53
1:OB:755:THR:O	1:OB:759:LEU:HB2	2.09	0.53
1:OB:779:LEU:HD13	1:PB:773:ALA:HB1	1.90	0.53
1:PB:411:ASP:OD1	1:PB:411:ASP:N	2.42	0.53
1:QB:182:CYS:O	1:QB:190:ARG:N	2.36	0.53
1:TB:735:ILE:HA	1:TB:738:GLU:HG3	1.91	0.53
1:TB:805:GLY:HA2	1:TB:808:ARG:HE	1.73	0.53
1:VB:11:PRO:HG2	1:VB:14:HIS:HB2	1.90	0.53
1:VB:648:GLN:HA	1:VB:651:ARG:HD2	1.91	0.53
1:VB:724:ALA:HB1	1:WB:718:SER:CB	2.39	0.53
1:WB:746:LEU:HD22	1:XB:741:VAL:CG2	2.39	0.53
1:XB:182:CYS:O	1:XB:190:ARG:N	2.35	0.53
1:YB:658:VAL:O	1:YB:662:ILE:HG12	2.08	0.53
1:ZB:14:HIS:CE1	1:ZB:47:PRO:HA	2.44	0.53
1:ZB:17:HIS:NE2	1:ZB:99:LEU:O	2.33	0.53
1:D:9:ARG:NH2	1:F:24:ASN:OD1	2.42	0.53
1:G:167:VAL:HA	1:G:203:ALA:HA	1.90	0.53
1:G:658:VAL:O	1:G:662:ILE:HG12	2.08	0.53
1:H:684:ALA:HA	1:H:687:ARG:CZ	2.38	0.53
1:J:658:VAL:O	1:J:662:ILE:HG12	2.08	0.53
1:K:167:VAL:HA	1:K:203:ALA:HA	1.90	0.53
1:K:648:GLN:HA	1:K:651:ARG:HD2	1.91	0.53
1:N:658:VAL:O	1:N:662:ILE:HG12	2.08	0.53
1:P:167:VAL:HA	1:P:203:ALA:HA	1.90	0.53
1:P:182:CYS:O	1:P:190:ARG:N	2.35	0.53
1:Q:648:GLN:HA	1:Q:651:ARG:HD2	1.91	0.53
1:Q:658:VAL:O	1:Q:662:ILE:HG12	2.08	0.53
1:V:11:PRO:HG2	1:V:14:HIS:HB2	1.90	0.53
1:W:411:ASP:N	1:W:411:ASP:OD1	2.42	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:W:648:GLN:HA	1:W:651:ARG:HD2	1.91	0.53
1:X:684:ALA:HA	1:X:687:ARG:CZ	2.38	0.53
1:Y:14:HIS:CE1	1:Y:47:PRO:HA	2.44	0.53
1:Y:411:ASP:OD1	1:Y:411:ASP:N	2.42	0.53
1:AA:575:ILE:HD11	1:AA:635:VAL:HG21	1.91	0.53
1:BA:91:ARG:NH1	1:BA:94:GLN:OE1	2.38	0.53
1:BA:479:ARG:NH1	1:BA:493:GLU:OE2	2.42	0.53
1:DA:14:HIS:CE1	1:DA:47:PRO:HA	2.44	0.53
1:FA:167:VAL:HA	1:FA:203:ALA:HA	1.90	0.53
1:GA:648:GLN:HA	1:GA:651:ARG:HD2	1.91	0.53
1:HA:167:VAL:HA	1:HA:203:ALA:HA	1.90	0.53
1:HA:506:LYS:O	1:HA:507:ARG:NE	2.41	0.53
1:IA:575:ILE:HD11	1:IA:635:VAL:HG21	1.91	0.53
1:IA:716:VAL:HG21	1:KA:708:GLU:HG2	1.91	0.53
1:MA:299:LYS:NZ	1:MA:317:GLU:OE2	2.32	0.53
1:OA:755:THR:O	1:OA:759:LEU:HB2	2.09	0.53
1:PA:14:HIS:CE1	1:PA:47:PRO:HA	2.44	0.53
1:RA:411:ASP:N	1:RA:411:ASP:OD1	2.42	0.53
1:RA:479:ARG:NH1	1:RA:493:GLU:OE2	2.42	0.53
1:RA:575:ILE:HD11	1:RA:635:VAL:HG21	1.91	0.53
1:SA:768:MET:HA	1:SA:771:ILE:HG12	1.89	0.53
1:VA:684:ALA:HA	1:VA:687:ARG:CZ	2.38	0.53
1:WA:411:ASP:OD1	1:WA:411:ASP:N	2.42	0.53
1:WA:575:ILE:HD11	1:WA:635:VAL:HG21	1.91	0.53
1:XA:479:ARG:NH1	1:XA:493:GLU:OE2	2.42	0.53
1:XA:575:ILE:HD11	1:XA:635:VAL:HG21	1.91	0.53
1:YA:14:HIS:CE1	1:YA:47:PRO:HA	2.44	0.53
1:ZA:91:ARG:NH1	1:ZA:94:GLN:OE1	2.39	0.53
1:BB:673:ALA:HB1	1:CB:664:ILE:HD12	1.91	0.53
1:BB:706:LEU:HD21	1:CB:693:ILE:HA	1.91	0.53
1:DB:706:LEU:HD22	1:EB:697:SER:OG	2.09	0.53
1:FB:506:LYS:O	1:FB:507:ARG:NE	2.41	0.53
1:FB:651:ARG:HG2	1:GB:536:ARG:NH1	2.23	0.53
1:HB:91:ARG:NH1	1:HB:94:GLN:OE1	2.38	0.53
1:HB:684:ALA:HA	1:HB:687:ARG:CZ	2.38	0.53
1:HB:735:ILE:HA	1:HB:738:GLU:HG3	1.91	0.53
1:IB:684:ALA:HA	1:IB:687:ARG:CZ	2.38	0.53
1:JB:755:THR:O	1:JB:759:LEU:HB2	2.09	0.53
1:JB:805:GLY:HA2	1:JB:808:ARG:HE	1.73	0.53
1:KB:658:VAL:O	1:KB:662:ILE:HG12	2.08	0.53
1:LB:411:ASP:OD1	1:LB:411:ASP:N	2.42	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:LB:479:ARG:NH1	1:LB:493:GLU:OE2	2.42	0.53
1:LB:728:SER:HA	1:MB:719:THR:CB	2.38	0.53
1:MB:755:THR:O	1:MB:759:LEU:HB2	2.09	0.53
1:NB:805:GLY:HA2	1:NB:808:ARG:HE	1.73	0.53
1:OB:14:HIS:CE1	1:OB:47:PRO:HA	2.44	0.53
1:OB:138:MET:N	1:OB:141:ASP:OD2	2.36	0.53
1:QB:479:ARG:NH1	1:QB:493:GLU:OE2	2.42	0.53
1:SB:479:ARG:NH1	1:SB:493:GLU:OE2	2.42	0.53
1:UB:755:THR:O	1:UB:759:LEU:HB2	2.09	0.53
1:VB:14:HIS:CE1	1:VB:47:PRO:HA	2.44	0.53
1:VB:17:HIS:NE2	1:VB:99:LEU:O	2.33	0.53
1:WB:17:HIS:NE2	1:WB:99:LEU:O	2.33	0.53
1:WB:167:VAL:HA	1:WB:203:ALA:HA	1.90	0.53
1:WB:735:ILE:HA	1:WB:738:GLU:HG3	1.91	0.53
1:A:218:ALA:HB2	1:A:260:VAL:HG22	1.91	0.53
1:B:575:ILE:HD11	1:B:635:VAL:HG21	1.91	0.53
1:B:648:GLN:HA	1:B:651:ARG:HD2	1.91	0.53
1:B:658:VAL:O	1:B:662:ILE:HG12	2.08	0.53
1:C:218:ALA:HB2	1:C:260:VAL:HG22	1.91	0.53
1:C:658:VAL:O	1:C:662:ILE:HG12	2.08	0.53
1:C:805:GLY:HA2	1:C:808:ARG:HE	1.73	0.53
1:D:220:ILE:HG21	1:F:245:THR:O	1.93	0.53
1:E:805:GLY:HA2	1:E:808:ARG:HE	1.73	0.53
1:F:138:MET:N	1:F:141:ASP:OD2	2.36	0.53
1:H:479:ARG:NH1	1:H:493:GLU:OE2	2.42	0.53
1:I:14:HIS:CE1	1:I:47:PRO:HA	2.44	0.53
1:I:218:ALA:HB2	1:I:260:VAL:HG22	1.91	0.53
1:I:658:VAL:O	1:I:662:ILE:HG12	2.08	0.53
1:I:755:THR:O	1:I:759:LEU:HB2	2.09	0.53
1:M:658:VAL:O	1:M:662:ILE:HG12	2.08	0.53
1:N:479:ARG:NH1	1:N:493:GLU:OE2	2.42	0.53
1:P:479:ARG:NH1	1:P:493:GLU:OE2	2.42	0.53
1:P:648:GLN:HA	1:P:651:ARG:HD2	1.91	0.53
1:Q:167:VAL:HA	1:Q:203:ALA:HA	1.90	0.53
1:R:755:THR:O	1:R:759:LEU:HB2	2.09	0.53
1:T:648:GLN:HA	1:T:651:ARG:HD2	1.91	0.53
1:T:805:GLY:HA2	1:T:808:ARG:HE	1.73	0.53
1:V:411:ASP:OD1	1:V:411:ASP:N	2.42	0.53
1:W:218:ALA:HB2	1:W:260:VAL:HG22	1.91	0.53
1:X:735:ILE:HA	1:X:738:GLU:HG3	1.91	0.53
1:Y:735:ILE:HA	1:Y:738:GLU:HG3	1.91	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Y:755:THR:O	1:Y:759:LEU:HB2	2.09	0.53
1:DA:504:ARG:NH2	1:DA:524:THR:OG1	2.38	0.53
1:FA:26:SER:O	1:FA:101:PRO:HG2	2.09	0.53
1:FA:411:ASP:N	1:FA:411:ASP:OD1	2.42	0.53
1:FA:575:ILE:HD11	1:FA:635:VAL:HG21	1.91	0.53
1:FA:684:ALA:HA	1:FA:687:ARG:CZ	2.38	0.53
1:FA:755:THR:O	1:FA:759:LEU:HB2	2.09	0.53
1:FA:768:MET:HA	1:FA:771:ILE:HG12	1.89	0.53
1:HA:746:LEU:HD12	1:JA:737:GLY:HA3	1.90	0.53
1:IA:218:ALA:HB2	1:IA:260:VAL:HG22	1.91	0.53
1:IA:592:HIS:O	1:KA:584:ALA:CB	2.49	0.53
1:IA:755:THR:O	1:IA:759:LEU:HB2	2.09	0.53
1:JA:14:HIS:CE1	1:JA:47:PRO:HA	2.44	0.53
1:JA:735:ILE:HA	1:JA:738:GLU:HG3	1.91	0.53
1:LA:575:ILE:HD11	1:LA:635:VAL:HG21	1.91	0.53
1:RA:755:THR:O	1:RA:759:LEU:HB2	2.09	0.53
1:SA:91:ARG:NH1	1:SA:94:GLN:OE1	2.39	0.53
1:TA:11:PRO:HG2	1:TA:14:HIS:HB2	1.90	0.53
1:TA:805:GLY:HA2	1:TA:808:ARG:HE	1.73	0.53
1:UA:575:ILE:HD11	1:UA:635:VAL:HG21	1.91	0.53
1:WA:626:ALA:HB3	1:WA:635:VAL:HB	1.89	0.53
1:WA:648:GLN:HA	1:WA:651:ARG:HD2	1.91	0.53
1:WA:684:ALA:HA	1:WA:687:ARG:CZ	2.38	0.53
1:XA:218:ALA:HB2	1:XA:260:VAL:HG22	1.91	0.53
1:YA:768:MET:HA	1:YA:771:ILE:HG12	1.89	0.53
1:ZA:658:VAL:O	1:ZA:662:ILE:HG12	2.08	0.53
1:CB:575:ILE:HD11	1:CB:635:VAL:HG21	1.91	0.53
1:DB:14:HIS:CE1	1:DB:47:PRO:HA	2.44	0.53
1:DB:706:LEU:HD21	1:EB:693:ILE:HG22	1.88	0.53
1:DB:768:MET:HA	1:DB:771:ILE:HG12	1.89	0.53
1:EB:533:ASP:OD2	1:EB:587:THR:OG1	2.17	0.53
1:EB:755:THR:O	1:EB:759:LEU:HB2	2.09	0.53
1:FB:479:ARG:NH1	1:FB:493:GLU:OE2	2.42	0.53
1:FB:504:ARG:NH2	1:FB:524:THR:OG1	2.38	0.53
1:FB:684:ALA:HA	1:FB:687:ARG:CZ	2.38	0.53
1:GB:167:VAL:HA	1:GB:203:ALA:HA	1.90	0.53
1:GB:533:ASP:OD2	1:GB:587:THR:OG1	2.17	0.53
1:HB:218:ALA:HB2	1:HB:260:VAL:HG22	1.91	0.53
1:IB:805:GLY:HA2	1:IB:808:ARG:HE	1.73	0.53
1:NB:648:GLN:HA	1:NB:651:ARG:HD2	1.91	0.53
1:NB:658:VAL:O	1:NB:662:ILE:HG12	2.08	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:OB:11:PRO:HG2	1:OB:14:HIS:HB2	1.90	0.53
1:OB:95:ASP:CA	1:PB:85:HIS:NE2	2.70	0.53
1:PB:575:ILE:HD11	1:PB:635:VAL:HG21	1.91	0.53
1:QB:755:THR:O	1:QB:759:LEU:HB2	2.09	0.53
1:RB:11:PRO:HG2	1:RB:14:HIS:HB2	1.90	0.53
1:SB:218:ALA:HB2	1:SB:260:VAL:HG22	1.91	0.53
1:SB:506:LYS:O	1:SB:507:ARG:NE	2.41	0.53
1:SB:768:MET:HA	1:SB:771:ILE:HG12	1.89	0.53
1:UB:575:ILE:HD11	1:UB:635:VAL:HG21	1.91	0.53
1:UB:684:ALA:HA	1:UB:687:ARG:CZ	2.38	0.53
1:VB:575:ILE:HD11	1:VB:635:VAL:HG21	1.91	0.53
1:WB:648:GLN:HA	1:WB:651:ARG:HD2	1.91	0.53
1:XB:167:VAL:HA	1:XB:203:ALA:HA	1.90	0.53
1:XB:735:ILE:HA	1:XB:738:GLU:HG3	1.91	0.53
1:A:743:GLN:CG	1:C:733:ALA:CB	2.65	0.53
1:B:14:HIS:CE1	1:B:47:PRO:HA	2.44	0.53
1:D:14:HIS:CE1	1:D:47:PRO:HA	2.44	0.53
1:G:218:ALA:HB2	1:G:260:VAL:HG22	1.91	0.53
1:G:684:ALA:HA	1:G:687:ARG:CZ	2.38	0.53
1:G:797:GLU:HB2	1:I:792:ALA:HB1	1.91	0.53
1:G:813:ALA:CB	1:I:811:ALA:O	2.57	0.53
1:H:14:HIS:CE1	1:H:47:PRO:HA	2.44	0.53
1:H:575:ILE:HD11	1:H:635:VAL:HG21	1.91	0.53
1:M:26:SER:O	1:M:101:PRO:HG2	2.09	0.53
1:M:218:ALA:HB2	1:M:260:VAL:HG22	1.91	0.53
1:M:575:ILE:HD11	1:M:635:VAL:HG21	1.91	0.53
1:M:648:GLN:HA	1:M:651:ARG:HD2	1.91	0.53
1:M:735:ILE:HA	1:M:738:GLU:HG3	1.91	0.53
1:M:768:MET:HA	1:M:771:ILE:HG12	1.89	0.53
1:N:17:HIS:NE2	1:N:99:LEU:O	2.33	0.53
1:N:575:ILE:HD11	1:N:635:VAL:HG21	1.91	0.53
1:N:626:ALA:HB3	1:N:635:VAL:HB	1.89	0.53
1:O:626:ALA:HB3	1:O:635:VAL:HB	1.89	0.53
1:O:735:ILE:HA	1:O:738:GLU:HG3	1.91	0.53
1:P:14:HIS:CE1	1:P:47:PRO:HA	2.44	0.53
1:R:735:ILE:HA	1:R:738:GLU:HG3	1.91	0.53
1:S:575:ILE:HD11	1:S:635:VAL:HG21	1.91	0.53
1:T:167:VAL:HA	1:T:203:ALA:HA	1.90	0.53
1:T:575:ILE:HD11	1:T:635:VAL:HG21	1.91	0.53
1:T:755:THR:O	1:T:759:LEU:HB2	2.09	0.53
1:V:218:ALA:HB2	1:V:260:VAL:HG22	1.91	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:X:504:ARG:NH2	1:X:524:THR:OG1	2.38	0.53
1:Y:658:VAL:O	1:Y:662:ILE:HG12	2.08	0.53
1:Z:138:MET:N	1:Z:141:ASP:OD2	2.36	0.53
1:AA:167:VAL:HA	1:AA:203:ALA:HA	1.90	0.53
1:AA:735:ILE:HA	1:AA:738:GLU:HG3	1.91	0.53
1:CA:479:ARG:NH1	1:CA:493:GLU:OE2	2.42	0.53
1:CA:768:MET:HA	1:CA:771:ILE:HG12	1.89	0.53
1:FA:14:HIS:CE1	1:FA:47:PRO:HA	2.44	0.53
1:HA:17:HIS:NE2	1:HA:99:LEU:O	2.33	0.53
1:HA:682:GLN:OE1	1:HA:685:ARG:NH2	2.41	0.53
1:HA:779:LEU:HD13	1:JA:773:ALA:HB1	1.89	0.53
1:IA:533:ASP:OD2	1:IA:587:THR:OG1	2.17	0.53
1:JA:26:SER:O	1:JA:101:PRO:HG2	2.09	0.53
1:MA:14:HIS:CE1	1:MA:47:PRO:HA	2.44	0.53
1:MA:26:SER:O	1:MA:101:PRO:HG2	2.09	0.53
1:MA:411:ASP:OD1	1:MA:411:ASP:N	2.42	0.53
1:MA:648:GLN:HA	1:MA:651:ARG:HD2	1.91	0.53
1:OA:648:GLN:HA	1:OA:651:ARG:HD2	1.91	0.53
1:SA:11:PRO:HG2	1:SA:14:HIS:HB2	1.90	0.53
1:SA:575:ILE:HD11	1:SA:635:VAL:HG21	1.91	0.53
1:UA:17:HIS:NE2	1:UA:99:LEU:O	2.33	0.53
1:VA:14:HIS:CE1	1:VA:47:PRO:HA	2.44	0.53
1:WA:479:ARG:NH1	1:WA:493:GLU:OE2	2.42	0.53
1:XA:658:VAL:O	1:XA:662:ILE:HG12	2.08	0.53
1:BB:648:GLN:HA	1:BB:651:ARG:HD2	1.91	0.53
1:CB:11:PRO:HG2	1:CB:14:HIS:HB2	1.90	0.53
1:CB:14:HIS:CE1	1:CB:47:PRO:HA	2.44	0.53
1:EB:14:HIS:CE1	1:EB:47:PRO:HA	2.44	0.53
1:EB:411:ASP:OD1	1:EB:411:ASP:N	2.42	0.53
1:GB:14:HIS:CE1	1:GB:47:PRO:HA	2.44	0.53
1:GB:648:GLN:HA	1:GB:651:ARG:HD2	1.91	0.53
1:HB:14:HIS:CE1	1:HB:47:PRO:HA	2.44	0.53
1:IB:735:ILE:HA	1:IB:738:GLU:HG3	1.91	0.53
1:IB:755:THR:O	1:IB:759:LEU:HB2	2.09	0.53
1:KB:138:MET:N	1:KB:141:ASP:OD2	2.36	0.53
1:LB:464:HIS:CD2	1:MB:469:GLN:CD	2.82	0.53
1:LB:717:GLU:HA	1:MB:707:LEU:O	2.08	0.53
1:MB:11:PRO:HG2	1:MB:14:HIS:HB2	1.89	0.53
1:MB:91:ARG:NH1	1:MB:94:GLN:OE1	2.39	0.53
1:PB:14:HIS:CE1	1:PB:47:PRO:HA	2.44	0.53
1:PB:479:ARG:NH1	1:PB:493:GLU:OE2	2.42	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:PB:506:LYS:O	1:PB:507:ARG:NE	2.41	0.53
1:QB:775:ALA:HB1	1:RB:770:LEU:HD12	1.90	0.53
1:RB:218:ALA:HB2	1:RB:260:VAL:HG22	1.91	0.53
1:SB:575:ILE:HD11	1:SB:635:VAL:HG21	1.91	0.53
1:TB:26:SER:O	1:TB:101:PRO:HG2	2.09	0.53
1:VB:411:ASP:N	1:VB:411:ASP:OD1	2.42	0.53
1:WB:755:THR:O	1:WB:759:LEU:HB2	2.09	0.53
1:YB:755:THR:O	1:YB:759:LEU:HB2	2.09	0.53
1:ZB:735:ILE:HA	1:ZB:738:GLU:HG3	1.91	0.53
1:AC:626:ALA:HB3	1:AC:635:VAL:HB	1.89	0.53
1:AC:755:THR:O	1:AC:759:LEU:HB2	2.09	0.53
1:C:575:ILE:HD11	1:C:635:VAL:HG21	1.91	0.52
1:C:761:ARG:CG	1:E:752:ALA:HA	2.39	0.52
1:D:662:ILE:HG22	1:F:588:PHE:CE2	2.43	0.52
1:F:26:SER:O	1:F:101:PRO:HG2	2.10	0.52
1:F:735:ILE:HA	1:F:738:GLU:HG3	1.91	0.52
1:G:299:LYS:NZ	1:G:317:GLU:OE2	2.32	0.52
1:G:575:ILE:HD11	1:G:635:VAL:HG21	1.91	0.52
1:H:504:ARG:NH2	1:H:524:THR:OG1	2.38	0.52
1:I:39:ASP:OD2	1:VB:39:ASP:OD2	2.28	0.52
1:I:167:VAL:HA	1:I:203:ALA:HA	1.90	0.52
1:J:218:ALA:HB2	1:J:260:VAL:HG22	1.91	0.52
1:J:768:MET:HA	1:J:771:ILE:HG12	1.89	0.52
1:K:805:GLY:HA2	1:K:808:ARG:HE	1.73	0.52
1:L:479:ARG:NH1	1:L:493:GLU:OE2	2.42	0.52
1:P:735:ILE:HA	1:P:738:GLU:HG3	1.91	0.52
1:R:598:ILE:HA	1:R:601:MET:HG3	1.92	0.52
1:S:52:THR:HG21	1:V:85:HIS:CD2	2.45	0.52
1:V:735:ILE:HA	1:V:738:GLU:HG3	1.91	0.52
1:W:26:SER:O	1:W:101:PRO:HG2	2.09	0.52
1:W:755:THR:O	1:W:759:LEU:HB2	2.09	0.52
1:X:26:SER:O	1:X:101:PRO:HG2	2.09	0.52
1:X:805:GLY:HA2	1:X:808:ARG:HE	1.73	0.52
1:Z:575:ILE:HD11	1:Z:635:VAL:HG21	1.91	0.52
1:AA:506:LYS:O	1:AA:507:ARG:NE	2.41	0.52
1:CA:167:VAL:HA	1:CA:203:ALA:HA	1.90	0.52
1:CA:648:GLN:HA	1:CA:651:ARG:HD2	1.91	0.52
1:CA:755:THR:O	1:CA:759:LEU:HB2	2.09	0.52
1:DA:735:ILE:HA	1:DA:738:GLU:HG3	1.91	0.52
1:DA:755:THR:O	1:DA:759:LEU:HB2	2.09	0.52
1:GA:575:ILE:HD11	1:GA:635:VAL:HG21	1.91	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:IA:167:VAL:HA	1:IA:203:ALA:HA	1.90	0.52
1:JA:182:CYS:O	1:JA:190:ARG:N	2.35	0.52
1:KA:658:VAL:O	1:KA:662:ILE:HG12	2.08	0.52
1:MA:735:ILE:HA	1:MA:738:GLU:HG3	1.91	0.52
1:NA:768:MET:HA	1:NA:771:ILE:HG12	1.89	0.52
1:OA:182:CYS:O	1:OA:190:ARG:N	2.35	0.52
1:QA:14:HIS:CE1	1:QA:47:PRO:HA	2.44	0.52
1:QA:138:MET:N	1:QA:141:ASP:OD2	2.36	0.52
1:RA:167:VAL:HA	1:RA:203:ALA:HA	1.90	0.52
1:VA:218:ALA:HB2	1:VA:260:VAL:HG22	1.91	0.52
1:WA:218:ALA:HB2	1:WA:260:VAL:HG22	1.91	0.52
1:YA:218:ALA:HB2	1:YA:260:VAL:HG22	1.91	0.52
1:ZA:218:ALA:HB2	1:ZA:260:VAL:HG22	1.91	0.52
1:AB:14:HIS:CE1	1:AB:47:PRO:HA	2.44	0.52
1:BB:26:SER:O	1:BB:101:PRO:HG2	2.09	0.52
1:BB:684:ALA:HA	1:BB:687:ARG:CZ	2.38	0.52
1:BB:691:GLN:OE1	1:CB:679:ARG:CZ	2.52	0.52
1:DB:26:SER:O	1:DB:101:PRO:HG2	2.10	0.52
1:DB:218:ALA:HB2	1:DB:260:VAL:HG22	1.91	0.52
1:FB:735:ILE:HA	1:FB:738:GLU:HG3	1.91	0.52
1:HB:575:ILE:HD11	1:HB:635:VAL:HG21	1.91	0.52
1:JB:347:GLU:OE2	1:JB:351:HIS:NE2	2.39	0.52
1:LB:684:ALA:HA	1:LB:687:ARG:CZ	2.38	0.52
1:NB:347:GLU:OE2	1:NB:351:HIS:NE2	2.39	0.52
1:OB:218:ALA:HB2	1:OB:260:VAL:HG22	1.91	0.52
1:OB:299:LYS:NZ	1:OB:317:GLU:OE2	2.32	0.52
1:OB:385:ASN:CB	1:PB:492:GLU:OE2	2.52	0.52
1:OB:506:LYS:O	1:OB:507:ARG:NE	2.41	0.52
1:OB:673:ALA:HB1	1:PB:664:ILE:HB	1.90	0.52
1:PB:218:ALA:HB2	1:PB:260:VAL:HG22	1.91	0.52
1:QB:218:ALA:HB2	1:QB:260:VAL:HG22	1.91	0.52
1:TB:14:HIS:CE1	1:TB:47:PRO:HA	2.44	0.52
1:UB:411:ASP:OD1	1:UB:411:ASP:N	2.42	0.52
1:XB:755:THR:O	1:XB:759:LEU:HB2	2.09	0.52
1:YB:14:HIS:CE1	1:YB:47:PRO:HA	2.44	0.52
1:ZB:218:ALA:HB2	1:ZB:260:VAL:HG22	1.91	0.52
1:ZB:742:LEU:HB3	1:AC:733:ALA:HB1	1.91	0.52
1:AC:575:ILE:HD11	1:AC:635:VAL:HG21	1.91	0.52
1:A:750:ALA:HA	1:C:740:SER:O	2.08	0.52
1:B:26:SER:O	1:B:101:PRO:HG2	2.09	0.52
1:B:755:THR:O	1:B:759:LEU:HB2	2.09	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:626:ALA:HB3	1:C:635:VAL:HB	1.89	0.52
1:C:648:GLN:HA	1:C:651:ARG:HD2	1.91	0.52
1:D:658:VAL:O	1:D:662:ILE:HG12	2.08	0.52
1:D:735:ILE:HA	1:D:738:GLU:HG3	1.91	0.52
1:E:14:HIS:CE1	1:E:47:PRO:HA	2.44	0.52
1:E:167:VAL:HA	1:E:203:ALA:HA	1.90	0.52
1:E:218:ALA:HB2	1:E:260:VAL:HG22	1.91	0.52
1:E:658:VAL:O	1:E:662:ILE:HG12	2.08	0.52
1:I:598:ILE:HA	1:I:601:MET:HG3	1.92	0.52
1:K:218:ALA:HB2	1:K:260:VAL:HG22	1.91	0.52
1:K:658:VAL:O	1:K:662:ILE:HG12	2.08	0.52
1:M:411:ASP:OD1	1:M:411:ASP:N	2.42	0.52
1:O:218:ALA:HB2	1:O:260:VAL:HG22	1.91	0.52
1:O:598:ILE:HA	1:O:601:MET:HG3	1.92	0.52
1:Q:26:SER:O	1:Q:101:PRO:HG2	2.09	0.52
1:Q:626:ALA:HB3	1:Q:635:VAL:HB	1.89	0.52
1:R:26:SER:O	1:R:101:PRO:HG2	2.09	0.52
1:S:411:ASP:OD1	1:S:411:ASP:N	2.42	0.52
1:S:768:MET:HA	1:S:771:ILE:HG12	1.89	0.52
1:T:218:ALA:HB2	1:T:260:VAL:HG22	1.91	0.52
1:BA:506:LYS:O	1:BA:507:ARG:NE	2.41	0.52
1:BA:658:VAL:O	1:BA:662:ILE:HG12	2.08	0.52
1:BA:768:MET:HA	1:BA:771:ILE:HG12	1.89	0.52
1:DA:218:ALA:HB2	1:DA:260:VAL:HG22	1.91	0.52
1:EA:411:ASP:OD1	1:EA:411:ASP:N	2.42	0.52
1:EA:479:ARG:NH1	1:EA:493:GLU:OE2	2.42	0.52
1:EA:658:VAL:O	1:EA:662:ILE:HG12	2.08	0.52
1:FA:375:GLU:OE2	1:FA:377:ARG:NE	2.43	0.52
1:GA:64:PRO:O	1:GA:84:ARG:N	2.28	0.52
1:HA:575:ILE:HD11	1:HA:635:VAL:HG21	1.91	0.52
1:LA:648:GLN:HA	1:LA:651:ARG:HD2	1.91	0.52
1:LA:684:ALA:HA	1:LA:687:ARG:CZ	2.38	0.52
1:MA:506:LYS:O	1:MA:507:ARG:NE	2.41	0.52
1:MA:575:ILE:HD11	1:MA:635:VAL:HG21	1.91	0.52
1:NA:14:HIS:CE1	1:NA:47:PRO:HA	2.44	0.52
1:OA:375:GLU:OE2	1:OA:377:ARG:NE	2.43	0.52
1:QA:17:HIS:NE2	1:QA:99:LEU:O	2.33	0.52
1:QA:575:ILE:HD11	1:QA:635:VAL:HG21	1.91	0.52
1:RA:14:HIS:CE1	1:RA:47:PRO:HA	2.44	0.52
1:TA:26:SER:O	1:TA:101:PRO:HG2	2.10	0.52
1:TA:218:ALA:HB2	1:TA:260:VAL:HG22	1.91	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:UA:684:ALA:HA	1:UA:687:ARG:CZ	2.38	0.52
1:WA:11:PRO:HG2	1:WA:14:HIS:HB2	1.90	0.52
1:XA:14:HIS:CE1	1:XA:47:PRO:HA	2.44	0.52
1:XA:648:GLN:HA	1:XA:651:ARG:HD2	1.91	0.52
1:YA:626:ALA:HB3	1:YA:635:VAL:HB	1.89	0.52
1:ZA:755:THR:O	1:ZA:759:LEU:HB2	2.09	0.52
1:AB:648:GLN:HA	1:AB:651:ARG:HD2	1.91	0.52
1:BB:598:ILE:HA	1:BB:601:MET:HG3	1.92	0.52
1:BB:731:GLU:CB	1:CB:719:THR:OG1	2.56	0.52
1:CB:735:ILE:HA	1:CB:738:GLU:HG3	1.91	0.52
1:DB:575:ILE:HD11	1:DB:635:VAL:HG21	1.91	0.52
1:DB:720:GLY:CA	1:EB:711:ALA:CB	2.78	0.52
1:FB:26:SER:O	1:FB:101:PRO:HG2	2.09	0.52
1:LB:182:CYS:O	1:LB:190:ARG:N	2.36	0.52
1:LB:712:MET:CE	1:MB:704:LYS:HE2	2.39	0.52
1:MB:479:ARG:NH1	1:MB:493:GLU:OE2	2.42	0.52
1:NB:26:SER:O	1:NB:101:PRO:HG2	2.09	0.52
1:NB:506:LYS:O	1:NB:507:ARG:NE	2.41	0.52
1:NB:684:ALA:HA	1:NB:687:ARG:CZ	2.38	0.52
1:OB:575:ILE:HD11	1:OB:635:VAL:HG21	1.91	0.52
1:OB:648:GLN:HA	1:OB:651:ARG:HD2	1.91	0.52
1:PB:648:GLN:HA	1:PB:651:ARG:HD2	1.91	0.52
1:RB:26:SER:O	1:RB:101:PRO:HG2	2.09	0.52
1:RB:755:THR:O	1:RB:759:LEU:HB2	2.09	0.52
1:TB:648:GLN:HA	1:TB:651:ARG:HD2	1.91	0.52
1:VB:26:SER:O	1:VB:101:PRO:HG2	2.09	0.52
1:VB:640:VAL:CG1	1:WB:580:ARG:HH22	2.21	0.52
1:WB:26:SER:O	1:WB:101:PRO:HG2	2.10	0.52
1:YB:375:GLU:OE2	1:YB:377:ARG:NE	2.43	0.52
1:YB:411:ASP:OD1	1:YB:411:ASP:N	2.42	0.52
1:ZB:26:SER:O	1:ZB:101:PRO:HG2	2.09	0.52
1:ZB:746:LEU:CG	1:AC:737:GLY:HA2	2.39	0.52
1:D:52:THR:O	1:F:86:ALA:HB2	2.04	0.52
1:D:768:MET:CE	1:F:759:LEU:HD11	2.39	0.52
1:I:575:ILE:HD11	1:I:635:VAL:HG21	1.91	0.52
1:J:14:HIS:CE1	1:J:47:PRO:HA	2.44	0.52
1:L:218:ALA:HB2	1:L:260:VAL:HG22	1.91	0.52
1:L:658:VAL:O	1:L:662:ILE:HG12	2.08	0.52
1:L:755:THR:O	1:L:759:LEU:HB2	2.09	0.52
1:L:805:GLY:HA2	1:L:808:ARG:HE	1.73	0.52
1:N:167:VAL:HA	1:N:203:ALA:HA	1.90	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:218:ALA:HB2	1:N:260:VAL:HG22	1.91	0.52
1:N:329:GLN:NE2	1:P:393:VAL:CG2	2.72	0.52
1:P:682:GLN:OE1	1:P:685:ARG:NH2	2.41	0.52
1:S:26:SER:O	1:S:101:PRO:HG2	2.10	0.52
1:X:167:VAL:HA	1:X:203:ALA:HA	1.90	0.52
1:Y:598:ILE:HA	1:Y:601:MET:HG3	1.92	0.52
1:AA:411:ASP:OD1	1:AA:411:ASP:N	2.42	0.52
1:BA:598:ILE:HA	1:BA:601:MET:HG3	1.92	0.52
1:BA:755:THR:O	1:BA:759:LEU:HB2	2.09	0.52
1:CA:218:ALA:HB2	1:CA:260:VAL:HG22	1.91	0.52
1:CA:375:GLU:OE2	1:CA:377:ARG:NE	2.43	0.52
1:CA:411:ASP:OD1	1:CA:411:ASP:N	2.42	0.52
1:DA:411:ASP:OD1	1:DA:411:ASP:N	2.42	0.52
1:DA:575:ILE:HD11	1:DA:635:VAL:HG21	1.91	0.52
1:EA:14:HIS:CE1	1:EA:47:PRO:HA	2.44	0.52
1:EA:218:ALA:HB2	1:EA:260:VAL:HG22	1.91	0.52
1:EA:735:ILE:HA	1:EA:738:GLU:HG3	1.91	0.52
1:GA:26:SER:O	1:GA:101:PRO:HG2	2.09	0.52
1:GA:735:ILE:HA	1:GA:738:GLU:HG3	1.91	0.52
1:HA:14:HIS:CE1	1:HA:47:PRO:HA	2.44	0.52
1:HA:658:VAL:O	1:HA:662:ILE:HG12	2.08	0.52
1:HA:735:ILE:HA	1:HA:738:GLU:HG3	1.91	0.52
1:IA:682:GLN:OE1	1:IA:685:ARG:NH2	2.41	0.52
1:JA:411:ASP:N	1:JA:411:ASP:OD1	2.42	0.52
1:KA:218:ALA:HB2	1:KA:260:VAL:HG22	1.91	0.52
1:KA:411:ASP:OD1	1:KA:411:ASP:N	2.42	0.52
1:KA:575:ILE:HD11	1:KA:635:VAL:HG21	1.91	0.52
1:KA:598:ILE:HA	1:KA:601:MET:HG3	1.92	0.52
1:OA:14:HIS:CE1	1:OA:47:PRO:HA	2.44	0.52
1:PA:218:ALA:HB2	1:PA:260:VAL:HG22	1.92	0.52
1:PA:735:ILE:HA	1:PA:738:GLU:HG3	1.91	0.52
1:QA:26:SER:O	1:QA:101:PRO:HG2	2.09	0.52
1:QA:684:ALA:HA	1:QA:687:ARG:CZ	2.38	0.52
1:UA:735:ILE:HA	1:UA:738:GLU:HG3	1.91	0.52
1:XA:167:VAL:HA	1:XA:203:ALA:HA	1.90	0.52
1:XA:805:GLY:HA2	1:XA:808:ARG:HE	1.73	0.52
1:ZA:14:HIS:CE1	1:ZA:47:PRO:HA	2.44	0.52
1:ZA:735:ILE:HA	1:ZA:738:GLU:HG3	1.91	0.52
1:AB:167:VAL:HA	1:AB:203:ALA:HA	1.90	0.52
1:AB:755:THR:O	1:AB:759:LEU:HB2	2.09	0.52
1:CB:167:VAL:HA	1:CB:203:ALA:HA	1.90	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:DB:167:VAL:HA	1:DB:203:ALA:HA	1.90	0.52
1:DB:375:GLU:OE2	1:DB:377:ARG:NE	2.43	0.52
1:EB:598:ILE:HA	1:EB:601:MET:HG3	1.92	0.52
1:FB:411:ASP:N	1:FB:411:ASP:OD1	2.42	0.52
1:FB:520:PRO:CB	1:GB:630:GLN:HB2	2.39	0.52
1:HB:138:MET:N	1:HB:141:ASP:OD2	2.36	0.52
1:IB:658:VAL:O	1:IB:662:ILE:HG12	2.08	0.52
1:JB:218:ALA:HB2	1:JB:260:VAL:HG22	1.91	0.52
1:JB:768:MET:HA	1:JB:771:ILE:HG12	1.89	0.52
1:LB:648:GLN:HA	1:LB:651:ARG:HD2	1.91	0.52
1:LB:681:GLU:HA	1:MB:675:HIS:CD2	2.44	0.52
1:NB:375:GLU:OE2	1:NB:377:ARG:NE	2.43	0.52
1:NB:575:ILE:HD11	1:NB:635:VAL:HG21	1.91	0.52
1:NB:598:ILE:HA	1:NB:601:MET:HG3	1.92	0.52
1:OB:91:ARG:NH1	1:OB:94:GLN:OE1	2.39	0.52
1:OB:479:ARG:NH1	1:OB:493:GLU:OE2	2.42	0.52
1:OB:504:ARG:NH2	1:OB:524:THR:OG1	2.38	0.52
1:PB:375:GLU:OE2	1:PB:377:ARG:NE	2.43	0.52
1:PB:755:THR:O	1:PB:759:LEU:HB2	2.09	0.52
1:SB:680:LEU:HD13	1:TB:672:ALA:HB2	1.91	0.52
1:SB:735:ILE:HA	1:SB:738:GLU:HG3	1.91	0.52
1:TB:218:ALA:HB2	1:TB:260:VAL:HG22	1.91	0.52
1:TB:598:ILE:HA	1:TB:601:MET:HG3	1.92	0.52
1:UB:347:GLU:OE2	1:UB:351:HIS:NE2	2.39	0.52
1:UB:479:ARG:NH1	1:UB:493:GLU:OE2	2.42	0.52
1:VB:182:CYS:O	1:VB:190:ARG:N	2.35	0.52
1:VB:779:LEU:CD2	1:WB:774:ARG:HG3	2.39	0.52
1:WB:375:GLU:OE2	1:WB:377:ARG:NE	2.43	0.52
1:WB:506:LYS:O	1:WB:507:ARG:NE	2.41	0.52
1:XB:17:HIS:NE2	1:XB:99:LEU:O	2.33	0.52
1:ZB:684:ALA:HA	1:ZB:687:ARG:CZ	2.38	0.52
1:AC:735:ILE:HA	1:AC:738:GLU:HG3	1.91	0.52
1:C:26:SER:O	1:C:101:PRO:HG2	2.09	0.52
1:D:593:LYS:HZ1	1:F:532:ALA:HB1	1.74	0.52
1:E:648:GLN:HA	1:E:651:ARG:HD2	1.91	0.52
1:G:14:HIS:CE1	1:G:47:PRO:HA	2.44	0.52
1:G:755:THR:O	1:G:759:LEU:HB2	2.09	0.52
1:I:411:ASP:OD1	1:I:411:ASP:N	2.42	0.52
1:J:682:GLN:OE1	1:J:685:ARG:NH2	2.41	0.52
1:K:14:HIS:CE1	1:K:47:PRO:HA	2.44	0.52
1:L:411:ASP:OD1	1:L:411:ASP:N	2.42	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:802:LEU:HD21	1:N:799:THR:HG21	1.90	0.52
1:M:375:GLU:OE2	1:M:377:ARG:NE	2.43	0.52
1:P:375:GLU:OE2	1:P:377:ARG:NE	2.43	0.52
1:Q:375:GLU:OE2	1:Q:377:ARG:NE	2.43	0.52
1:R:411:ASP:OD1	1:R:411:ASP:N	2.42	0.52
1:V:755:THR:O	1:V:759:LEU:HB2	2.09	0.52
1:W:682:GLN:OE1	1:W:685:ARG:NH2	2.41	0.52
1:Y:375:GLU:OE2	1:Y:377:ARG:NE	2.43	0.52
1:Y:648:GLN:HA	1:Y:651:ARG:HD2	1.91	0.52
1:AA:26:SER:O	1:AA:101:PRO:HG2	2.10	0.52
1:BA:504:ARG:NH2	1:BA:524:THR:OG1	2.38	0.52
1:DA:26:SER:O	1:DA:101:PRO:HG2	2.10	0.52
1:EA:26:SER:O	1:EA:101:PRO:HG2	2.09	0.52
1:EA:598:ILE:HA	1:EA:601:MET:HG3	1.92	0.52
1:FA:506:LYS:O	1:FA:507:ARG:NE	2.41	0.52
1:HA:218:ALA:HB2	1:HA:260:VAL:HG22	1.91	0.52
1:IA:26:SER:O	1:IA:101:PRO:HG2	2.09	0.52
1:IA:768:MET:SD	1:KA:759:LEU:HD11	2.49	0.52
1:JA:218:ALA:HB2	1:JA:260:VAL:HG22	1.91	0.52
1:MA:755:THR:O	1:MA:759:LEU:HB2	2.09	0.52
1:NA:375:GLU:OE2	1:NA:377:ARG:NE	2.43	0.52
1:OA:26:SER:O	1:OA:101:PRO:HG2	2.09	0.52
1:OA:218:ALA:HB2	1:OA:260:VAL:HG22	1.91	0.52
1:OA:768:MET:HA	1:OA:771:ILE:HG12	1.89	0.52
1:PA:533:ASP:OD2	1:PA:587:THR:OG1	2.17	0.52
1:QA:218:ALA:HB2	1:QA:260:VAL:HG22	1.91	0.52
1:QA:658:VAL:O	1:QA:662:ILE:HG12	2.08	0.52
1:SA:648:GLN:HA	1:SA:651:ARG:HD2	1.91	0.52
1:SA:755:THR:O	1:SA:759:LEU:HB2	2.09	0.52
1:TA:598:ILE:HA	1:TA:601:MET:HG3	1.92	0.52
1:TA:735:ILE:HA	1:TA:738:GLU:HG3	1.91	0.52
1:UA:755:THR:O	1:UA:759:LEU:HB2	2.09	0.52
1:YA:805:GLY:HA2	1:YA:808:ARG:HE	1.73	0.52
1:ZA:26:SER:O	1:ZA:101:PRO:HG2	2.09	0.52
1:ZA:287:PRO:HA	1:ZA:314:GLU:HG2	1.92	0.52
1:ZA:375:GLU:OE2	1:ZA:377:ARG:NE	2.43	0.52
1:ZA:506:LYS:O	1:ZA:507:ARG:NE	2.41	0.52
1:AB:218:ALA:HB2	1:AB:260:VAL:HG22	1.91	0.52
1:BB:658:VAL:O	1:BB:662:ILE:HG12	2.08	0.52
1:BB:805:GLY:HA2	1:BB:808:ARG:HE	1.73	0.52
1:DB:182:CYS:O	1:DB:190:ARG:N	2.35	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:DB:755:THR:O	1:DB:759:LEU:HB2	2.09	0.52
1:GB:218:ALA:HB2	1:GB:260:VAL:HG22	1.91	0.52
1:HB:26:SER:O	1:HB:101:PRO:HG2	2.09	0.52
1:KB:411:ASP:OD1	1:KB:411:ASP:N	2.42	0.52
1:KB:684:ALA:HA	1:KB:687:ARG:CZ	2.38	0.52
1:LB:486:LEU:HB2	1:MB:473:TYR:CG	2.45	0.52
1:LB:706:LEU:CD2	1:MB:697:SER:HA	2.35	0.52
1:LB:755:THR:O	1:LB:759:LEU:HB2	2.09	0.52
1:MB:411:ASP:OD1	1:MB:411:ASP:N	2.42	0.52
1:MB:598:ILE:HA	1:MB:601:MET:HG3	1.92	0.52
1:NB:411:ASP:N	1:NB:411:ASP:OD1	2.42	0.52
1:NB:735:ILE:HA	1:NB:738:GLU:HG3	1.91	0.52
1:PB:684:ALA:HA	1:PB:687:ARG:CZ	2.38	0.52
1:QB:167:VAL:HA	1:QB:203:ALA:HA	1.90	0.52
1:QB:598:ILE:HA	1:QB:601:MET:HG3	1.92	0.52
1:SB:411:ASP:OD1	1:SB:411:ASP:N	2.42	0.52
1:SB:655:GLN:HE21	1:TB:649:ARG:HB3	1.72	0.52
1:SB:684:ALA:CB	1:TB:675:HIS:HB3	2.38	0.52
1:TB:479:ARG:NH1	1:TB:493:GLU:OE2	2.42	0.52
1:WB:598:ILE:HA	1:WB:601:MET:HG3	1.92	0.52
1:YB:167:VAL:HA	1:YB:203:ALA:HA	1.90	0.52
1:ZB:598:ILE:HA	1:ZB:601:MET:HG3	1.92	0.52
1:ZB:755:THR:O	1:ZB:759:LEU:HB2	2.09	0.52
1:AC:648:GLN:HA	1:AC:651:ARG:HD2	1.91	0.52
1:A:598:ILE:HA	1:A:601:MET:HG3	1.92	0.52
1:D:49:ARG:NE	1:F:85:HIS:CB	2.42	0.52
1:D:171:ASN:ND2	1:F:245:THR:HG22	2.25	0.52
1:D:375:GLU:OE2	1:D:377:ARG:NE	2.43	0.52
1:D:479:ARG:NH1	1:D:493:GLU:OE2	2.42	0.52
1:D:768:MET:HA	1:D:771:ILE:HG12	1.89	0.52
1:E:375:GLU:OE2	1:E:377:ARG:NE	2.43	0.52
1:F:299:LYS:NZ	1:F:317:GLU:OE2	2.32	0.52
1:G:11:PRO:HG2	1:G:14:HIS:HB2	1.89	0.52
1:I:375:GLU:OE2	1:I:377:ARG:NE	2.43	0.52
1:I:735:ILE:HA	1:I:738:GLU:HG3	1.91	0.52
1:K:755:THR:O	1:K:759:LEU:HB2	2.09	0.52
1:L:26:SER:O	1:L:101:PRO:HG2	2.09	0.52
1:N:735:ILE:HA	1:N:738:GLU:HG3	1.91	0.52
1:O:506:LYS:O	1:O:507:ARG:NE	2.41	0.52
1:Q:14:HIS:CE1	1:Q:47:PRO:HA	2.44	0.52
1:Q:347:GLU:OE2	1:Q:351:HIS:NE2	2.39	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:S:375:GLU:OE2	1:S:377:ARG:NE	2.43	0.52
1:V:375:GLU:OE2	1:V:377:ARG:NE	2.43	0.52
1:V:575:ILE:HD11	1:V:635:VAL:HG21	1.91	0.52
1:V:598:ILE:HA	1:V:601:MET:HG3	1.92	0.52
1:W:805:GLY:HA2	1:W:808:ARG:HE	1.73	0.52
1:X:14:HIS:CE1	1:X:47:PRO:HA	2.44	0.52
1:Z:14:HIS:CE1	1:Z:47:PRO:HA	2.44	0.52
1:Z:26:SER:O	1:Z:101:PRO:HG2	2.09	0.52
1:Z:735:ILE:HA	1:Z:738:GLU:HG3	1.91	0.52
1:AA:755:THR:O	1:AA:759:LEU:HB2	2.09	0.52
1:BA:375:GLU:OE2	1:BA:377:ARG:NE	2.43	0.52
1:BA:735:ILE:HA	1:BA:738:GLU:HG3	1.91	0.52
1:CA:575:ILE:HD11	1:CA:635:VAL:HG21	1.91	0.52
1:GA:11:PRO:HG2	1:GA:14:HIS:HB2	1.90	0.52
1:GA:167:VAL:HA	1:GA:203:ALA:HA	1.90	0.52
1:GA:411:ASP:OD1	1:GA:411:ASP:N	2.42	0.52
1:IA:375:GLU:OE2	1:IA:377:ARG:NE	2.43	0.52
1:LA:735:ILE:HA	1:LA:738:GLU:HG3	1.91	0.52
1:NA:26:SER:O	1:NA:101:PRO:HG2	2.09	0.52
1:OA:575:ILE:HD11	1:OA:635:VAL:HG21	1.91	0.52
1:PA:26:SER:O	1:PA:101:PRO:HG2	2.09	0.52
1:PA:375:GLU:OE2	1:PA:377:ARG:NE	2.43	0.52
1:PA:575:ILE:HD11	1:PA:635:VAL:HG21	1.91	0.52
1:TA:167:VAL:HA	1:TA:203:ALA:HA	1.90	0.52
1:VA:598:ILE:HA	1:VA:601:MET:HG3	1.92	0.52
1:WA:26:SER:O	1:WA:101:PRO:HG2	2.09	0.52
1:YA:533:ASP:OD2	1:YA:587:THR:OG1	2.17	0.52
1:AB:375:GLU:OE2	1:AB:377:ARG:NE	2.43	0.52
1:BB:91:ARG:NH1	1:BB:94:GLN:OE1	2.39	0.52
1:CB:17:HIS:NE2	1:CB:99:LEU:O	2.33	0.52
1:DB:479:ARG:NH1	1:DB:493:GLU:OE2	2.42	0.52
1:EB:287:PRO:HA	1:EB:314:GLU:HG2	1.92	0.52
1:FB:575:ILE:HD11	1:FB:635:VAL:HG21	1.91	0.52
1:HB:299:LYS:NZ	1:HB:317:GLU:OE2	2.32	0.52
1:JB:26:SER:O	1:JB:101:PRO:HG2	2.09	0.52
1:JB:506:LYS:O	1:JB:507:ARG:NE	2.41	0.52
1:MB:375:GLU:OE2	1:MB:377:ARG:NE	2.43	0.52
1:MB:805:GLY:HA2	1:MB:808:ARG:HE	1.73	0.52
1:OB:687:ARG:NH1	1:PB:679:ARG:HH12	1.98	0.52
1:RB:14:HIS:CE1	1:RB:47:PRO:HA	2.44	0.52
1:SB:706:LEU:HD21	1:TB:693:ILE:O	2.09	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:SB:755:THR:O	1:SB:759:LEU:HB2	2.09	0.52
1:UB:299:LYS:NZ	1:UB:317:GLU:OE2	2.32	0.52
1:VB:598:ILE:HA	1:VB:601:MET:HG3	1.92	0.52
1:ZB:658:VAL:O	1:ZB:662:ILE:HG12	2.08	0.52
1:AC:182:CYS:O	1:AC:190:ARG:N	2.35	0.52
1:A:757:ALA:O	1:C:752:ALA:CA	2.57	0.52
1:B:375:GLU:OE2	1:B:377:ARG:NE	2.43	0.52
1:C:506:LYS:O	1:C:507:ARG:NE	2.41	0.52
1:C:790:VAL:HG13	1:E:785:GLN:CB	2.37	0.52
1:C:801:ALA:HB1	1:E:796:LYS:HZ2	1.73	0.52
1:D:52:THR:HG22	1:F:86:ALA:CB	2.36	0.52
1:F:648:GLN:HA	1:F:651:ARG:HD2	1.91	0.52
1:M:138:MET:N	1:M:141:ASP:OD2	2.36	0.52
1:N:755:THR:O	1:N:759:LEU:HB2	2.09	0.52
1:O:14:HIS:CE1	1:O:47:PRO:HA	2.44	0.52
1:X:218:ALA:HB2	1:X:260:VAL:HG22	1.91	0.52
1:X:375:GLU:OE2	1:X:377:ARG:NE	2.43	0.52
1:Z:375:GLU:OE2	1:Z:377:ARG:NE	2.43	0.52
1:BA:218:ALA:HB2	1:BA:260:VAL:HG22	1.91	0.52
1:DA:648:GLN:HA	1:DA:651:ARG:HD2	1.91	0.52
1:EA:755:THR:O	1:EA:759:LEU:HB2	2.09	0.52
1:GA:755:THR:O	1:GA:759:LEU:HB2	2.09	0.52
1:IA:347:GLU:OE2	1:IA:351:HIS:NE2	2.39	0.52
1:JA:375:GLU:OE2	1:JA:377:ARG:NE	2.43	0.52
1:KA:91:ARG:NH1	1:KA:94:GLN:OE1	2.38	0.52
1:KA:375:GLU:OE2	1:KA:377:ARG:NE	2.43	0.52
1:NA:755:THR:O	1:NA:759:LEU:HB2	2.09	0.52
1:QA:287:PRO:HA	1:QA:314:GLU:HG2	1.92	0.52
1:RA:182:CYS:O	1:RA:190:ARG:N	2.36	0.52
1:SA:682:GLN:OE1	1:SA:685:ARG:NH2	2.41	0.52
1:UA:285:LEU:N	1:UA:315:ARG:O	2.41	0.52
1:UA:805:GLY:HA2	1:UA:808:ARG:HE	1.73	0.52
1:VA:26:SER:O	1:VA:101:PRO:HG2	2.10	0.52
1:WA:375:GLU:OE2	1:WA:377:ARG:NE	2.43	0.52
1:WA:735:ILE:HA	1:WA:738:GLU:HG3	1.91	0.52
1:XA:26:SER:O	1:XA:101:PRO:HG2	2.09	0.52
1:ZA:299:LYS:NZ	1:ZA:317:GLU:OE2	2.32	0.52
1:BB:375:GLU:OE2	1:BB:377:ARG:NE	2.43	0.52
1:DB:648:GLN:HA	1:DB:651:ARG:HD2	1.91	0.52
1:FB:287:PRO:HA	1:FB:314:GLU:HG2	1.92	0.52
1:IB:26:SER:O	1:IB:101:PRO:HG2	2.09	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:LB:26:SER:O	1:LB:101:PRO:HG2	2.09	0.52
1:OB:26:SER:O	1:OB:101:PRO:HG2	2.10	0.52
1:OB:464:HIS:CD2	1:PB:469:GLN:HG2	2.44	0.52
1:PB:347:GLU:OE2	1:PB:351:HIS:NE2	2.39	0.52
1:QB:805:GLY:HA2	1:QB:808:ARG:HE	1.73	0.52
1:RB:167:VAL:HA	1:RB:203:ALA:HA	1.90	0.52
1:TB:138:MET:N	1:TB:141:ASP:OD2	2.36	0.52
1:TB:755:THR:O	1:TB:759:LEU:HB2	2.09	0.52
1:UB:375:GLU:OE2	1:UB:377:ARG:NE	2.43	0.52
1:XB:479:ARG:NH1	1:XB:493:GLU:OE2	2.42	0.52
1:ZB:658:VAL:HG13	1:AC:533:ASP:O	2.08	0.52
1:A:26:SER:O	1:A:101:PRO:HG2	2.09	0.52
1:C:598:ILE:HA	1:C:601:MET:HG3	1.92	0.52
1:C:798:MET:HB2	1:E:792:ALA:HB1	1.92	0.52
1:D:26:SER:O	1:D:101:PRO:HG2	2.09	0.52
1:D:224:LYS:CG	1:F:294:ASN:HB2	2.40	0.52
1:D:411:ASP:N	1:D:411:ASP:OD1	2.42	0.52
1:E:26:SER:O	1:E:101:PRO:HG2	2.09	0.52
1:H:375:GLU:OE2	1:H:377:ARG:NE	2.43	0.52
1:I:285:LEU:N	1:I:315:ARG:O	2.41	0.52
1:J:375:GLU:OE2	1:J:377:ARG:NE	2.43	0.52
1:J:598:ILE:HA	1:J:601:MET:HG3	1.92	0.52
1:M:682:GLN:OE1	1:M:685:ARG:NH2	2.41	0.52
1:N:287:PRO:HA	1:N:314:GLU:HG2	1.92	0.52
1:Q:755:THR:O	1:Q:759:LEU:HB2	2.09	0.52
1:R:218:ALA:HB2	1:R:260:VAL:HG22	1.91	0.52
1:S:14:HIS:CE1	1:S:47:PRO:HA	2.44	0.52
1:W:287:PRO:HA	1:W:314:GLU:HG2	1.92	0.52
1:W:479:ARG:NH1	1:W:493:GLU:OE2	2.42	0.52
1:W:506:LYS:O	1:W:507:ARG:NE	2.41	0.52
1:X:755:THR:O	1:X:759:LEU:HB2	2.09	0.52
1:BA:64:PRO:O	1:BA:84:ARG:N	2.28	0.52
1:BA:648:GLN:HA	1:BA:651:ARG:HD2	1.91	0.52
1:DA:598:ILE:HA	1:DA:601:MET:HG3	1.92	0.52
1:EA:287:PRO:HA	1:EA:314:GLU:HG2	1.92	0.52
1:FA:287:PRO:HA	1:FA:314:GLU:HG2	1.92	0.52
1:HA:768:MET:HA	1:HA:771:ILE:HG12	1.89	0.52
1:IA:594:ASN:HB3	1:IA:597:ARG:HB3	1.92	0.52
1:JA:594:ASN:HB3	1:JA:597:ARG:HB3	1.92	0.52
1:MA:682:GLN:OE1	1:MA:685:ARG:NH2	2.41	0.52
1:RA:506:LYS:O	1:RA:507:ARG:NE	2.41	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:SA:506:LYS:O	1:SA:507:ARG:NE	2.41	0.52
1:TA:768:MET:HA	1:TA:771:ILE:HG12	1.89	0.52
1:VA:735:ILE:HA	1:VA:738:GLU:HG3	1.91	0.52
1:XA:755:THR:O	1:XA:759:LEU:HB2	2.09	0.52
1:YA:26:SER:O	1:YA:101:PRO:HG2	2.09	0.52
1:YA:682:GLN:OE1	1:YA:685:ARG:NH2	2.41	0.52
1:ZA:724:ALA:CB	1:BB:714:MET:SD	2.97	0.52
1:AB:465:ASN:ND2	1:OB:563:SER:CA	2.69	0.52
1:BB:755:THR:O	1:BB:759:LEU:HB2	2.09	0.52
1:EB:218:ALA:HB2	1:EB:260:VAL:HG22	1.91	0.52
1:FB:375:GLU:OE2	1:FB:377:ARG:NE	2.43	0.52
1:FB:651:ARG:HG3	1:GB:536:ARG:HH22	1.74	0.52
1:HB:375:GLU:OE2	1:HB:377:ARG:NE	2.43	0.52
1:MB:682:GLN:OE1	1:MB:685:ARG:NH2	2.41	0.52
1:NB:218:ALA:HB2	1:NB:260:VAL:HG22	1.91	0.52
1:NB:533:ASP:OD2	1:NB:587:THR:OG1	2.17	0.52
1:OB:258:ALA:CB	1:PB:245:THR:HB	2.40	0.52
1:OB:544:ASN:CB	1:PB:573:LYS:HZ3	2.22	0.52
1:OB:595:SER:HB2	1:PB:580:ARG:NH1	2.21	0.52
1:QB:735:ILE:HA	1:QB:738:GLU:HG3	1.91	0.52
1:RB:287:PRO:HA	1:RB:314:GLU:HG2	1.92	0.52
1:SB:375:GLU:OE2	1:SB:377:ARG:NE	2.43	0.52
1:SB:648:GLN:HA	1:SB:651:ARG:HD2	1.91	0.52
1:SB:706:LEU:CD2	1:TB:697:SER:OG	2.57	0.52
1:TB:287:PRO:HA	1:TB:314:GLU:HG2	1.92	0.52
1:TB:626:ALA:HB3	1:TB:635:VAL:HB	1.89	0.52
1:UB:167:VAL:HA	1:UB:203:ALA:HA	1.90	0.52
1:UB:731:GLU:CG	1:VB:726:ALA:HB2	2.17	0.52
1:WB:287:PRO:HA	1:WB:314:GLU:HG2	1.92	0.52
1:XB:287:PRO:HA	1:XB:314:GLU:HG2	1.92	0.52
1:XB:375:GLU:OE2	1:XB:377:ARG:NE	2.43	0.52
1:A:504:ARG:NH2	1:A:524:THR:OG1	2.38	0.52
1:A:594:ASN:HB3	1:A:597:ARG:HB3	1.92	0.52
1:D:662:ILE:HD12	1:F:654:LEU:HD21	1.90	0.52
1:F:575:ILE:HD11	1:F:635:VAL:HG21	1.91	0.52
1:F:755:THR:O	1:F:759:LEU:HB2	2.09	0.52
1:H:598:ILE:HA	1:H:601:MET:HG3	1.92	0.52
1:I:26:SER:O	1:I:101:PRO:HG2	2.09	0.52
1:I:684:ALA:HA	1:I:687:ARG:CZ	2.38	0.52
1:J:138:MET:N	1:J:141:ASP:OD2	2.36	0.52
1:J:287:PRO:HA	1:J:314:GLU:HG2	1.92	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:287:PRO:HA	1:K:314:GLU:HG2	1.92	0.52
1:L:287:PRO:HA	1:L:314:GLU:HG2	1.92	0.52
1:L:375:GLU:OE2	1:L:377:ARG:NE	2.43	0.52
1:L:575:ILE:HD11	1:L:635:VAL:HG21	1.91	0.52
1:N:221:LEU:HD21	1:N:227:LEU:HB2	1.92	0.52
1:O:375:GLU:OE2	1:O:377:ARG:NE	2.43	0.52
1:P:218:ALA:HB2	1:P:260:VAL:HG22	1.91	0.52
1:P:575:ILE:HD11	1:P:635:VAL:HG21	1.91	0.52
1:Q:735:ILE:HA	1:Q:738:GLU:HG3	1.91	0.52
1:R:484:PRO:O	1:T:473:TYR:CE1	2.63	0.52
1:T:26:SER:O	1:T:101:PRO:HG2	2.09	0.52
1:V:54:PRO:HA	1:X:86:ALA:HB1	1.92	0.52
1:W:375:GLU:OE2	1:W:377:ARG:NE	2.43	0.52
1:W:575:ILE:HD11	1:W:635:VAL:HG21	1.91	0.52
1:X:575:ILE:HD11	1:X:635:VAL:HG21	1.91	0.52
1:Y:218:ALA:HB2	1:Y:260:VAL:HG22	1.91	0.52
1:Y:575:ILE:HD11	1:Y:635:VAL:HG21	1.91	0.52
1:Z:682:GLN:OE1	1:Z:685:ARG:NH2	2.41	0.52
1:BA:805:GLY:HA2	1:BA:808:ARG:HE	1.73	0.52
1:DA:375:GLU:OE2	1:DA:377:ARG:NE	2.43	0.52
1:EA:138:MET:N	1:EA:141:ASP:OD2	2.36	0.52
1:FA:648:GLN:HA	1:FA:651:ARG:HD2	1.91	0.52
1:HA:91:ARG:NH1	1:HA:94:GLN:OE1	2.39	0.52
1:IA:14:HIS:CE1	1:IA:47:PRO:HA	2.44	0.52
1:KA:138:MET:N	1:KA:141:ASP:OD2	2.36	0.52
1:QA:221:LEU:HD21	1:QA:227:LEU:HB2	1.92	0.52
1:QA:648:GLN:HA	1:QA:651:ARG:HD2	1.91	0.52
1:RA:735:ILE:HA	1:RA:738:GLU:HG3	1.91	0.52
1:SA:375:GLU:OE2	1:SA:377:ARG:NE	2.43	0.52
1:SA:411:ASP:OD1	1:SA:411:ASP:N	2.42	0.52
1:VA:64:PRO:O	1:VA:84:ARG:N	2.28	0.52
1:YA:735:ILE:HA	1:YA:738:GLU:HG3	1.91	0.52
1:ZA:285:LEU:N	1:ZA:315:ARG:O	2.41	0.52
1:AB:26:SER:O	1:AB:101:PRO:HG2	2.10	0.52
1:BB:218:ALA:HB2	1:BB:260:VAL:HG22	1.91	0.52
1:DB:285:LEU:N	1:DB:315:ARG:O	2.41	0.52
1:EB:138:MET:N	1:EB:141:ASP:OD2	2.36	0.52
1:FB:658:VAL:O	1:FB:662:ILE:HG12	2.08	0.52
1:HB:64:PRO:O	1:HB:84:ARG:N	2.28	0.52
1:JB:14:HIS:CE1	1:JB:47:PRO:HA	2.44	0.52
1:KB:26:SER:O	1:KB:101:PRO:HG2	2.09	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:KB:218:ALA:HB2	1:KB:260:VAL:HG22	1.91	0.52
1:NB:91:ARG:NH1	1:NB:94:GLN:OE1	2.39	0.52
1:OB:167:VAL:HA	1:OB:203:ALA:HA	1.90	0.52
1:QB:648:GLN:HA	1:QB:651:ARG:HD2	1.91	0.52
1:RB:375:GLU:OE2	1:RB:377:ARG:NE	2.43	0.52
1:RB:411:ASP:N	1:RB:411:ASP:OD1	2.42	0.52
1:RB:575:ILE:HD11	1:RB:635:VAL:HG21	1.91	0.52
1:SB:347:GLU:OE2	1:SB:351:HIS:NE2	2.39	0.52
1:UB:648:GLN:HA	1:UB:651:ARG:HD2	1.91	0.52
1:UB:702:ALA:CB	1:VB:693:ILE:CB	2.84	0.52
1:WB:218:ALA:HB2	1:WB:260:VAL:HG22	1.92	0.52
1:WB:746:LEU:HD22	1:XB:741:VAL:HG21	1.92	0.52
1:XB:218:ALA:HB2	1:XB:260:VAL:HG22	1.91	0.52
1:XB:221:LEU:HD21	1:XB:227:LEU:HB2	1.92	0.52
1:XB:411:ASP:OD1	1:XB:411:ASP:N	2.42	0.52
1:AC:218:ALA:HB2	1:AC:260:VAL:HG22	1.91	0.52
1:AC:375:GLU:OE2	1:AC:377:ARG:NE	2.43	0.52
1:AC:479:ARG:NH1	1:AC:493:GLU:OE2	2.42	0.52
1:A:375:GLU:OE2	1:A:377:ARG:NE	2.43	0.52
1:A:779:LEU:HB3	1:C:773:ALA:HB3	1.86	0.52
1:C:755:THR:O	1:C:759:LEU:HB2	2.09	0.52
1:G:506:LYS:O	1:G:507:ARG:NE	2.41	0.52
1:H:287:PRO:HA	1:H:314:GLU:HG2	1.92	0.52
1:K:17:HIS:NE2	1:K:99:LEU:O	2.33	0.52
1:K:375:GLU:OE2	1:K:377:ARG:NE	2.43	0.52
1:L:640:VAL:HG13	1:N:580:ARG:NH2	2.24	0.52
1:N:182:CYS:O	1:N:190:ARG:N	2.35	0.52
1:P:598:ILE:HA	1:P:601:MET:HG3	1.92	0.52
1:P:768:MET:CE	1:R:763:LYS:HG2	2.35	0.52
1:R:506:LYS:O	1:R:507:ARG:NE	2.41	0.52
1:R:594:ASN:HB3	1:R:597:ARG:HB3	1.92	0.52
1:T:138:MET:N	1:T:141:ASP:OD2	2.36	0.52
1:V:26:SER:O	1:V:101:PRO:HG2	2.09	0.52
1:W:735:ILE:HA	1:W:738:GLU:HG3	1.91	0.52
1:X:182:CYS:O	1:X:190:ARG:N	2.35	0.52
1:AA:648:GLN:HA	1:AA:651:ARG:HD2	1.91	0.52
1:BA:287:PRO:HA	1:BA:314:GLU:HG2	1.92	0.52
1:FA:735:ILE:HA	1:FA:738:GLU:HG3	1.91	0.52
1:GA:299:LYS:NZ	1:GA:317:GLU:OE2	2.32	0.52
1:IA:221:LEU:HD21	1:IA:227:LEU:HB2	1.92	0.52
1:IA:411:ASP:OD1	1:IA:411:ASP:N	2.42	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:IA:735:ILE:HA	1:IA:738:GLU:HG3	1.91	0.52
1:JA:575:ILE:HD11	1:JA:635:VAL:HG21	1.91	0.52
1:LA:221:LEU:HD21	1:LA:227:LEU:HB2	1.92	0.52
1:LA:682:GLN:OE1	1:LA:685:ARG:NH2	2.41	0.52
1:MA:805:GLY:HA2	1:MA:808:ARG:HE	1.73	0.52
1:PA:594:ASN:HB3	1:PA:597:ARG:HB3	1.92	0.52
1:PA:648:GLN:HA	1:PA:651:ARG:HD2	1.91	0.52
1:RA:682:GLN:OE1	1:RA:685:ARG:NH2	2.41	0.52
1:SA:287:PRO:HA	1:SA:314:GLU:HG2	1.92	0.52
1:TA:375:GLU:OE2	1:TA:377:ARG:NE	2.43	0.52
1:TA:575:ILE:HD11	1:TA:635:VAL:HG21	1.91	0.52
1:TA:755:THR:O	1:TA:759:LEU:HB2	2.09	0.52
1:ZA:575:ILE:HD11	1:ZA:635:VAL:HG21	1.91	0.52
1:ZA:598:ILE:HA	1:ZA:601:MET:HG3	1.92	0.52
1:DB:411:ASP:OD1	1:DB:411:ASP:N	2.42	0.52
1:DB:735:ILE:HA	1:DB:738:GLU:HG3	1.91	0.52
1:EB:26:SER:O	1:EB:101:PRO:HG2	2.09	0.52
1:EB:682:GLN:OE1	1:EB:685:ARG:NH2	2.41	0.52
1:FB:598:ILE:HA	1:FB:601:MET:HG3	1.92	0.52
1:GB:26:SER:O	1:GB:101:PRO:HG2	2.10	0.52
1:HB:221:LEU:HD21	1:HB:227:LEU:HB2	1.92	0.52
1:IB:287:PRO:HA	1:IB:314:GLU:HG2	1.92	0.52
1:JB:375:GLU:OE2	1:JB:377:ARG:NE	2.43	0.52
1:KB:755:THR:O	1:KB:759:LEU:HB2	2.09	0.52
1:LB:287:PRO:HA	1:LB:314:GLU:HG2	1.92	0.52
1:MB:575:ILE:HD11	1:MB:635:VAL:HG21	1.91	0.52
1:OB:221:LEU:HD21	1:OB:227:LEU:HB2	1.92	0.52
1:OB:464:HIS:CG	1:PB:496:THR:HG23	2.45	0.52
1:PB:26:SER:O	1:PB:101:PRO:HG2	2.09	0.52
1:RB:735:ILE:HA	1:RB:738:GLU:HG3	1.91	0.52
1:SB:598:ILE:HA	1:SB:601:MET:HG3	1.92	0.52
1:TB:375:GLU:OE2	1:TB:377:ARG:NE	2.43	0.52
1:TB:754:GLU:OE2	1:UB:744:ALA:HB1	2.09	0.52
1:VB:375:GLU:OE2	1:VB:377:ARG:NE	2.43	0.52
1:VB:594:ASN:HB3	1:VB:597:ARG:HB3	1.92	0.52
1:WB:658:VAL:O	1:WB:662:ILE:HG12	2.08	0.52
1:XB:26:SER:O	1:XB:101:PRO:HG2	2.09	0.52
1:ZB:594:ASN:HB3	1:ZB:597:ARG:HB3	1.92	0.52
1:ZB:757:ALA:CB	1:AC:751:LEU:CG	2.86	0.52
1:AC:287:PRO:HA	1:AC:314:GLU:HG2	1.92	0.52
1:A:772:TYR:CZ	1:C:766:ARG:HD3	2.45	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:221:LEU:HD21	1:B:227:LEU:HB2	1.92	0.52
1:B:287:PRO:HA	1:B:314:GLU:HG2	1.92	0.52
1:B:594:ASN:HB3	1:B:597:ARG:HB3	1.92	0.52
1:C:594:ASN:HB3	1:C:597:ARG:HB3	1.92	0.52
1:C:782:SER:O	1:E:777:LEU:HD21	2.10	0.52
1:D:648:GLN:HA	1:D:651:ARG:HD2	1.91	0.52
1:E:735:ILE:HA	1:E:738:GLU:HG3	1.91	0.52
1:F:594:ASN:HB3	1:F:597:ARG:HB3	1.92	0.52
1:I:138:MET:N	1:I:141:ASP:OD2	2.36	0.52
1:I:287:PRO:HA	1:I:314:GLU:HG2	1.92	0.52
1:K:575:ILE:HD11	1:K:635:VAL:HG21	1.91	0.52
1:L:594:ASN:HB3	1:L:597:ARG:HB3	1.92	0.52
1:M:755:THR:O	1:M:759:LEU:HB2	2.09	0.52
1:N:91:ARG:NH1	1:N:94:GLN:OE1	2.39	0.52
1:O:411:ASP:N	1:O:411:ASP:OD1	2.42	0.52
1:Q:218:ALA:HB2	1:Q:260:VAL:HG22	1.91	0.52
1:Q:598:ILE:HA	1:Q:601:MET:HG3	1.92	0.52
1:S:598:ILE:HA	1:S:601:MET:HG3	1.92	0.52
1:T:594:ASN:HB3	1:T:597:ARG:HB3	1.92	0.52
1:V:287:PRO:HA	1:V:314:GLU:HG2	1.92	0.52
1:V:706:LEU:HD21	1:X:693:ILE:HG23	1.92	0.52
1:X:287:PRO:HA	1:X:314:GLU:HG2	1.92	0.52
1:X:506:LYS:O	1:X:507:ARG:NE	2.41	0.52
1:Y:26:SER:O	1:Y:101:PRO:HG2	2.09	0.52
1:Y:594:ASN:HB3	1:Y:597:ARG:HB3	1.92	0.52
1:Z:504:ARG:NH2	1:Z:524:THR:OG1	2.38	0.52
1:Z:594:ASN:HB3	1:Z:597:ARG:HB3	1.92	0.52
1:AA:598:ILE:HA	1:AA:601:MET:HG3	1.92	0.52
1:BA:26:SER:O	1:BA:101:PRO:HG2	2.09	0.52
1:GA:594:ASN:HB3	1:GA:597:ARG:HB3	1.92	0.52
1:HA:594:ASN:HB3	1:HA:597:ARG:HB3	1.92	0.52
1:HA:746:LEU:HD13	1:JA:737:GLY:C	2.30	0.52
1:KA:221:LEU:HD21	1:KA:227:LEU:HB2	1.92	0.52
1:LA:598:ILE:HA	1:LA:601:MET:HG3	1.92	0.52
1:MA:287:PRO:HA	1:MA:314:GLU:HG2	1.92	0.52
1:UA:375:GLU:OE2	1:UA:377:ARG:NE	2.43	0.52
1:UA:594:ASN:HB3	1:UA:597:ARG:HB3	1.92	0.52
1:VA:594:ASN:HB3	1:VA:597:ARG:HB3	1.92	0.52
1:WA:594:ASN:HB3	1:WA:597:ARG:HB3	1.92	0.52
1:WA:598:ILE:HA	1:WA:601:MET:HG3	1.92	0.52
1:XA:594:ASN:HB3	1:XA:597:ARG:HB3	1.92	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:XA:706:LEU:HD23	1:ZA:693:ILE:HG23	1.92	0.52
1:YA:575:ILE:HD11	1:YA:635:VAL:HG21	1.91	0.52
1:ZA:411:ASP:N	1:ZA:411:ASP:OD1	2.42	0.52
1:BB:594:ASN:HB3	1:BB:597:ARG:HB3	1.92	0.52
1:CB:706:LEU:HD21	1:DB:693:ILE:O	2.10	0.52
1:CB:728:SER:HA	1:DB:719:THR:HA	1.91	0.52
1:IB:575:ILE:HD11	1:IB:635:VAL:HG21	1.91	0.52
1:JB:411:ASP:N	1:JB:411:ASP:OD1	2.42	0.52
1:KB:287:PRO:HA	1:KB:314:GLU:HG2	1.92	0.52
1:LB:221:LEU:HD21	1:LB:227:LEU:HB2	1.92	0.52
1:LB:575:ILE:HD11	1:LB:635:VAL:HG21	1.91	0.52
1:LB:598:ILE:HA	1:LB:601:MET:HG3	1.92	0.52
1:LB:681:GLU:CB	1:MB:675:HIS:CE1	2.92	0.52
1:LB:725:GLU:OE2	1:MB:718:SER:HB2	2.10	0.52
1:MB:724:ALA:CB	1:NB:714:MET:CE	2.87	0.52
1:MB:735:ILE:HA	1:MB:738:GLU:HG3	1.91	0.52
1:NB:755:THR:O	1:NB:759:LEU:HB2	2.09	0.52
1:OB:598:ILE:HA	1:OB:601:MET:HG3	1.92	0.52
1:PB:221:LEU:HD21	1:PB:227:LEU:HB2	1.92	0.52
1:QB:287:PRO:HA	1:QB:314:GLU:HG2	1.92	0.52
1:QB:375:GLU:OE2	1:QB:377:ARG:NE	2.43	0.52
1:QB:575:ILE:HD11	1:QB:635:VAL:HG21	1.91	0.52
1:SB:594:ASN:HB3	1:SB:597:ARG:HB3	1.92	0.52
1:UB:598:ILE:HA	1:UB:601:MET:HG3	1.92	0.52
1:UB:801:ALA:HB3	1:VB:799:THR:HB	1.91	0.52
1:VB:91:ARG:NH1	1:VB:94:GLN:OE1	2.39	0.52
1:VB:218:ALA:HB2	1:VB:260:VAL:HG22	1.91	0.52
1:WB:575:ILE:HD11	1:WB:635:VAL:HG21	1.91	0.52
1:XB:598:ILE:HA	1:XB:601:MET:HG3	1.92	0.52
1:XB:648:GLN:HA	1:XB:651:ARG:HD2	1.91	0.52
1:YB:64:PRO:O	1:YB:84:ARG:N	2.28	0.52
1:ZB:682:GLN:OE1	1:ZB:685:ARG:NH2	2.41	0.52
1:AC:26:SER:O	1:AC:101:PRO:HG2	2.09	0.52
1:A:221:LEU:HD21	1:A:227:LEU:HB2	1.92	0.51
1:A:727:GLU:O	1:C:719:THR:HA	2.10	0.51
1:A:735:ILE:HA	1:A:738:GLU:HG3	1.91	0.51
1:C:375:GLU:OE2	1:C:377:ARG:NE	2.43	0.51
1:C:682:GLN:OE1	1:C:685:ARG:NH2	2.41	0.51
1:D:223:GLU:OE2	1:D:224:LYS:NZ	2.42	0.51
1:F:221:LEU:HD21	1:F:227:LEU:HB2	1.92	0.51
1:F:598:ILE:HA	1:F:601:MET:HG3	1.92	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:26:SER:O	1:G:101:PRO:HG2	2.10	0.51
1:G:533:ASP:OD2	1:G:587:THR:OG1	2.17	0.51
1:H:218:ALA:HB2	1:H:260:VAL:HG22	1.91	0.51
1:J:575:ILE:HD11	1:J:635:VAL:HG21	1.91	0.51
1:J:755:THR:O	1:J:759:LEU:HB2	2.09	0.51
1:M:594:ASN:HB3	1:M:597:ARG:HB3	1.92	0.51
1:N:95:ASP:CA	1:P:85:HIS:NE2	2.73	0.51
1:O:138:MET:N	1:O:141:ASP:OD2	2.36	0.51
1:O:287:PRO:HA	1:O:314:GLU:HG2	1.92	0.51
1:P:26:SER:O	1:P:101:PRO:HG2	2.09	0.51
1:W:14:HIS:CE1	1:W:47:PRO:HA	2.44	0.51
1:AA:287:PRO:HA	1:AA:314:GLU:HG2	1.92	0.51
1:CA:598:ILE:HA	1:CA:601:MET:HG3	1.92	0.51
1:DA:594:ASN:HB3	1:DA:597:ARG:HB3	1.92	0.51
1:GA:287:PRO:HA	1:GA:314:GLU:HG2	1.92	0.51
1:HA:26:SER:O	1:HA:101:PRO:HG2	2.09	0.51
1:IA:299:LYS:NZ	1:IA:317:GLU:OE2	2.32	0.51
1:KA:594:ASN:HB3	1:KA:597:ARG:HB3	1.92	0.51
1:LA:375:GLU:OE2	1:LA:377:ARG:NE	2.43	0.51
1:NA:218:ALA:HB2	1:NA:260:VAL:HG22	1.91	0.51
1:NA:575:ILE:HD11	1:NA:635:VAL:HG21	1.91	0.51
1:TA:221:LEU:HD21	1:TA:227:LEU:HB2	1.92	0.51
1:TA:411:ASP:OD1	1:TA:411:ASP:N	2.42	0.51
1:UA:26:SER:O	1:UA:101:PRO:HG2	2.09	0.51
1:VA:182:CYS:O	1:VA:190:ARG:N	2.35	0.51
1:VA:375:GLU:OE2	1:VA:377:ARG:NE	2.43	0.51
1:WA:221:LEU:HD21	1:WA:227:LEU:HB2	1.92	0.51
1:WA:755:THR:O	1:WA:759:LEU:HB2	2.09	0.51
1:XA:375:GLU:OE2	1:XA:377:ARG:NE	2.43	0.51
1:XA:411:ASP:OD1	1:XA:411:ASP:N	2.42	0.51
1:YA:375:GLU:OE2	1:YA:377:ARG:NE	2.43	0.51
1:AB:575:ILE:HD11	1:AB:635:VAL:HG21	1.91	0.51
1:BB:64:PRO:O	1:BB:84:ARG:N	2.28	0.51
1:BB:575:ILE:HD11	1:BB:635:VAL:HG21	1.91	0.51
1:EB:735:ILE:HA	1:EB:738:GLU:HG3	1.91	0.51
1:FB:364:GLU:HB3	1:GB:353:ALA:HB2	1.88	0.51
1:FB:641:GLN:HA	1:GB:577:SER:CB	2.40	0.51
1:FB:755:THR:O	1:FB:759:LEU:HB2	2.09	0.51
1:GB:285:LEU:N	1:GB:315:ARG:O	2.41	0.51
1:GB:375:GLU:OE2	1:GB:377:ARG:NE	2.43	0.51
1:GB:594:ASN:HB3	1:GB:597:ARG:HB3	1.92	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:HB:598:ILE:HA	1:HB:601:MET:HG3	1.92	0.51
1:JB:575:ILE:HD11	1:JB:635:VAL:HG21	1.91	0.51
1:KB:91:ARG:NH1	1:KB:94:GLN:OE1	2.39	0.51
1:KB:598:ILE:HA	1:KB:601:MET:HG3	1.92	0.51
1:LB:728:SER:HB3	1:MB:718:SER:C	2.30	0.51
1:OB:305:GLU:HB2	1:PB:298:GLN:HG3	1.91	0.51
1:QB:285:LEU:N	1:QB:315:ARG:O	2.41	0.51
1:SB:26:SER:O	1:SB:101:PRO:HG2	2.09	0.51
1:UB:682:GLN:OE1	1:UB:685:ARG:NH2	2.41	0.51
1:UB:810:LEU:CB	1:VB:811:ALA:HB3	2.40	0.51
1:VB:695:ASP:CG	1:WB:686:GLY:CA	2.77	0.51
1:VB:755:THR:O	1:VB:759:LEU:HB2	2.09	0.51
1:YB:221:LEU:HD21	1:YB:227:LEU:HB2	1.92	0.51
1:YB:287:PRO:HA	1:YB:314:GLU:HG2	1.92	0.51
1:AC:221:LEU:HD21	1:AC:227:LEU:HB2	1.92	0.51
1:B:91:ARG:NH1	1:B:94:GLN:OE1	2.39	0.51
1:B:182:CYS:O	1:B:190:ARG:N	2.35	0.51
1:B:506:LYS:O	1:B:507:ARG:NE	2.41	0.51
1:C:221:LEU:HD21	1:C:227:LEU:HB2	1.92	0.51
1:D:724:ALA:HA	1:F:715:ALA:HB1	1.91	0.51
1:G:375:GLU:OE2	1:G:377:ARG:NE	2.43	0.51
1:G:598:ILE:HA	1:G:601:MET:HG3	1.92	0.51
1:I:221:LEU:HD21	1:I:227:LEU:HB2	1.92	0.51
1:K:735:ILE:HA	1:K:738:GLU:HG3	1.91	0.51
1:L:598:ILE:HA	1:L:601:MET:HG3	1.92	0.51
1:N:279:ARG:CD	1:P:337:LEU:HD13	2.40	0.51
1:N:375:GLU:OE2	1:N:377:ARG:NE	2.43	0.51
1:N:648:GLN:HA	1:N:651:ARG:HD2	1.91	0.51
1:Q:575:ILE:HD11	1:Q:635:VAL:HG21	1.91	0.51
1:R:375:GLU:OE2	1:R:377:ARG:NE	2.43	0.51
1:S:64:PRO:O	1:S:84:ARG:N	2.28	0.51
1:W:598:ILE:HA	1:W:601:MET:HG3	1.92	0.51
1:Z:182:CYS:O	1:Z:190:ARG:N	2.36	0.51
1:Z:221:LEU:HD21	1:Z:227:LEU:HB2	1.92	0.51
1:BA:594:ASN:HB3	1:BA:597:ARG:HB3	1.92	0.51
1:CA:735:ILE:HA	1:CA:738:GLU:HG3	1.91	0.51
1:GA:598:ILE:HA	1:GA:601:MET:HG3	1.92	0.51
1:HA:375:GLU:OE2	1:HA:377:ARG:NE	2.43	0.51
1:IA:717:GLU:HB2	1:KA:707:LEU:HD13	1.91	0.51
1:NA:287:PRO:HA	1:NA:314:GLU:HG2	1.92	0.51
1:OA:221:LEU:HD21	1:OA:227:LEU:HB2	1.92	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:QA:375:GLU:OE2	1:QA:377:ARG:NE	2.43	0.51
1:QA:594:ASN:HB3	1:QA:597:ARG:HB3	1.92	0.51
1:QA:682:GLN:OE1	1:QA:685:ARG:NH2	2.41	0.51
1:RA:221:LEU:HD21	1:RA:227:LEU:HB2	1.92	0.51
1:RA:375:GLU:OE2	1:RA:377:ARG:NE	2.43	0.51
1:VA:221:LEU:HD21	1:VA:227:LEU:HB2	1.92	0.51
1:CB:26:SER:O	1:CB:101:PRO:HG2	2.09	0.51
1:CB:375:GLU:OE2	1:CB:377:ARG:NE	2.43	0.51
1:DB:598:ILE:HA	1:DB:601:MET:HG3	1.92	0.51
1:EB:575:ILE:HD11	1:EB:635:VAL:HG21	1.91	0.51
1:FB:167:VAL:HA	1:FB:203:ALA:HA	1.90	0.51
1:FB:171:ASN:HD21	1:GB:233:GLN:HA	1.74	0.51
1:HB:594:ASN:HB3	1:HB:597:ARG:HB3	1.92	0.51
1:IB:598:ILE:HA	1:IB:601:MET:HG3	1.92	0.51
1:KB:182:CYS:O	1:KB:190:ARG:N	2.35	0.51
1:KB:221:LEU:HD21	1:KB:227:LEU:HB2	1.92	0.51
1:LB:218:ALA:HB2	1:LB:260:VAL:HG22	1.91	0.51
1:MB:26:SER:O	1:MB:101:PRO:HG2	2.09	0.51
1:MB:648:GLN:HA	1:MB:651:ARG:HD2	1.91	0.51
1:OB:702:ALA:CB	1:PB:693:ILE:HG23	2.25	0.51
1:OB:735:ILE:HA	1:OB:738:GLU:HG3	1.91	0.51
1:SB:706:LEU:HD22	1:TB:697:SER:OG	2.10	0.51
1:UB:218:ALA:HB2	1:UB:260:VAL:HG22	1.91	0.51
1:VB:735:ILE:HA	1:VB:738:GLU:HG3	1.91	0.51
1:XB:14:HIS:CE1	1:XB:47:PRO:HA	2.44	0.51
1:YB:26:SER:O	1:YB:101:PRO:HG2	2.09	0.51
1:ZB:575:ILE:HD11	1:ZB:635:VAL:HG21	1.91	0.51
1:A:768:MET:SD	1:C:759:LEU:CD1	2.98	0.51
1:B:735:ILE:HA	1:B:738:GLU:HG3	1.91	0.51
1:C:720:GLY:C	1:E:711:ALA:HB1	2.29	0.51
1:C:735:ILE:HA	1:C:738:GLU:HG3	1.91	0.51
1:D:325:VAL:HG12	1:F:354:GLY:HA3	1.92	0.51
1:D:575:ILE:HD11	1:D:635:VAL:HG21	1.91	0.51
1:D:594:ASN:HB3	1:D:597:ARG:HB3	1.92	0.51
1:E:411:ASP:OD1	1:E:411:ASP:N	2.42	0.51
1:F:375:GLU:OE2	1:F:377:ARG:NE	2.43	0.51
1:F:411:ASP:OD1	1:F:411:ASP:N	2.42	0.51
1:G:221:LEU:HD21	1:G:227:LEU:HB2	1.92	0.51
1:K:598:ILE:HA	1:K:601:MET:HG3	1.92	0.51
1:M:598:ILE:HA	1:M:601:MET:HG3	1.92	0.51
1:N:465:ASN:HD21	1:P:563:SER:CA	2.14	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:O:26:SER:O	1:O:101:PRO:HG2	2.09	0.51
1:P:287:PRO:HA	1:P:314:GLU:HG2	1.92	0.51
1:R:648:GLN:HA	1:R:651:ARG:HD2	1.91	0.51
1:S:17:HIS:NE2	1:S:99:LEU:O	2.34	0.51
1:T:375:GLU:OE2	1:T:377:ARG:NE	2.43	0.51
1:V:648:GLN:HA	1:V:651:ARG:HD2	1.91	0.51
1:W:285:LEU:N	1:W:315:ARG:O	2.41	0.51
1:X:221:LEU:HD21	1:X:227:LEU:HB2	1.92	0.51
1:BA:575:ILE:HD11	1:BA:635:VAL:HG21	1.91	0.51
1:EA:285:LEU:N	1:EA:315:ARG:O	2.41	0.51
1:EA:682:GLN:OE1	1:EA:685:ARG:NH2	2.41	0.51
1:FA:594:ASN:HB3	1:FA:597:ARG:HB3	1.92	0.51
1:GA:375:GLU:OE2	1:GA:377:ARG:NE	2.43	0.51
1:MA:375:GLU:OE2	1:MA:377:ARG:NE	2.43	0.51
1:NA:411:ASP:N	1:NA:411:ASP:OD1	2.42	0.51
1:OA:594:ASN:HB3	1:OA:597:ARG:HB3	1.92	0.51
1:QA:735:ILE:HA	1:QA:738:GLU:HG3	1.91	0.51
1:SA:594:ASN:HB3	1:SA:597:ARG:HB3	1.92	0.51
1:UA:218:ALA:HB2	1:UA:260:VAL:HG22	1.91	0.51
1:UA:221:LEU:HD21	1:UA:227:LEU:HB2	1.92	0.51
1:VA:648:GLN:HA	1:VA:651:ARG:HD2	1.91	0.51
1:YA:648:GLN:HA	1:YA:651:ARG:HD2	1.91	0.51
1:DB:728:SER:HA	1:EB:719:THR:HA	1.92	0.51
1:FB:594:ASN:HB3	1:FB:597:ARG:HB3	1.92	0.51
1:GB:598:ILE:HA	1:GB:601:MET:HG3	1.92	0.51
1:GB:735:ILE:HA	1:GB:738:GLU:HG3	1.91	0.51
1:IB:64:PRO:O	1:IB:84:ARG:N	2.28	0.51
1:IB:221:LEU:HD21	1:IB:227:LEU:HB2	1.92	0.51
1:LB:382:LEU:O	1:MB:396:GLY:HA3	2.10	0.51
1:LB:712:MET:CE	1:MB:704:LYS:CE	2.88	0.51
1:MB:218:ALA:HB2	1:MB:260:VAL:HG22	1.91	0.51
1:OB:364:GLU:H	1:PB:353:ALA:HB3	1.75	0.51
1:PB:594:ASN:HB3	1:PB:597:ARG:HB3	1.92	0.51
1:PB:682:GLN:OE1	1:PB:685:ARG:NH2	2.41	0.51
1:UB:221:LEU:HD21	1:UB:227:LEU:HB2	1.92	0.51
1:UB:735:ILE:HA	1:UB:738:GLU:HG3	1.91	0.51
1:VB:720:GLY:HA3	1:WB:711:ALA:HB1	1.91	0.51
1:XB:91:ARG:NH1	1:XB:94:GLN:OE1	2.39	0.51
1:XB:299:LYS:NZ	1:XB:317:GLU:OE2	2.32	0.51
1:YB:575:ILE:HD11	1:YB:635:VAL:HG21	1.91	0.51
1:YB:735:ILE:HA	1:YB:738:GLU:HG3	1.91	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:ZB:375:GLU:OE2	1:ZB:377:ARG:NE	2.43	0.51
1:AC:598:ILE:HA	1:AC:601:MET:HG3	1.92	0.51
1:A:728:SER:CA	1:C:722:ALA:CB	2.86	0.51
1:C:287:PRO:HA	1:C:314:GLU:HG2	1.92	0.51
1:C:299:LYS:NZ	1:C:317:GLU:OE2	2.32	0.51
1:D:118:ASN:HD21	1:F:181:GLU:CD	2.10	0.51
1:E:17:HIS:NE2	1:E:99:LEU:O	2.33	0.51
1:E:575:ILE:HD11	1:E:635:VAL:HG21	1.91	0.51
1:F:218:ALA:HB2	1:F:260:VAL:HG22	1.91	0.51
1:F:506:LYS:O	1:F:507:ARG:NE	2.41	0.51
1:H:221:LEU:HD21	1:H:227:LEU:HB2	1.92	0.51
1:I:34:THR:CG2	1:K:23:SER:HA	2.41	0.51
1:I:96:PRO:HD3	1:K:85:HIS:CE1	2.46	0.51
1:I:682:GLN:OE1	1:I:685:ARG:NH2	2.41	0.51
1:J:299:LYS:NZ	1:J:317:GLU:OE2	2.32	0.51
1:J:411:ASP:OD1	1:J:411:ASP:N	2.42	0.51
1:L:182:CYS:O	1:L:190:ARG:N	2.35	0.51
1:L:648:GLN:HA	1:L:651:ARG:HD2	1.91	0.51
1:N:806:THR:CG2	1:P:804:PRO:HB3	2.38	0.51
1:O:594:ASN:HB3	1:O:597:ARG:HB3	1.92	0.51
1:Q:287:PRO:HA	1:Q:314:GLU:HG2	1.92	0.51
1:Q:654:LEU:O	1:Q:658:VAL:HG23	2.11	0.51
1:Z:533:ASP:OD2	1:Z:587:THR:OG1	2.17	0.51
1:Z:648:GLN:HA	1:Z:651:ARG:HD2	1.91	0.51
1:AA:375:GLU:OE2	1:AA:377:ARG:NE	2.43	0.51
1:FA:299:LYS:NZ	1:FA:317:GLU:OE2	2.32	0.51
1:HA:221:LEU:HD21	1:HA:227:LEU:HB2	1.92	0.51
1:HA:411:ASP:OD1	1:HA:411:ASP:N	2.42	0.51
1:IA:279:ARG:HH12	1:KA:299:LYS:HE3	1.75	0.51
1:JA:598:ILE:HA	1:JA:601:MET:HG3	1.92	0.51
1:JA:755:THR:O	1:JA:759:LEU:HB2	2.09	0.51
1:LA:26:SER:O	1:LA:101:PRO:HG2	2.09	0.51
1:LA:594:ASN:HB3	1:LA:597:ARG:HB3	1.92	0.51
1:OA:735:ILE:HA	1:OA:738:GLU:HG3	1.91	0.51
1:SA:598:ILE:HA	1:SA:601:MET:HG3	1.92	0.51
1:UA:598:ILE:HA	1:UA:601:MET:HG3	1.92	0.51
1:CB:287:PRO:HA	1:CB:314:GLU:HG2	1.92	0.51
1:CB:648:GLN:HA	1:CB:651:ARG:HD2	1.91	0.51
1:DB:287:PRO:HA	1:DB:314:GLU:HG2	1.92	0.51
1:EB:375:GLU:OE2	1:EB:377:ARG:NE	2.43	0.51
1:HB:755:THR:O	1:HB:759:LEU:HB2	2.09	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:IB:218:ALA:HB2	1:IB:260:VAL:HG22	1.91	0.51
1:JB:735:ILE:HA	1:JB:738:GLU:HG3	1.91	0.51
1:LB:385:ASN:ND2	1:MB:473:TYR:C	2.64	0.51
1:LB:724:ALA:HA	1:MB:715:ALA:HB1	1.92	0.51
1:NB:285:LEU:N	1:NB:315:ARG:O	2.41	0.51
1:NB:594:ASN:HB3	1:NB:597:ARG:HB3	1.92	0.51
1:OB:375:GLU:OE2	1:OB:377:ARG:NE	2.43	0.51
1:QB:26:SER:O	1:QB:101:PRO:HG2	2.10	0.51
1:QB:533:ASP:OD2	1:QB:587:THR:OG1	2.17	0.51
1:QB:813:ALA:CB	1:RB:811:ALA:CB	2.85	0.51
1:RB:594:ASN:HB3	1:RB:597:ARG:HB3	1.92	0.51
1:TB:221:LEU:HD21	1:TB:227:LEU:HB2	1.92	0.51
1:UB:138:MET:N	1:UB:141:ASP:OD2	2.36	0.51
1:UB:806:THR:HG21	1:VB:804:PRO:C	2.31	0.51
1:VB:750:ALA:HA	1:WB:744:ALA:HB3	1.84	0.51
1:AC:594:ASN:HB3	1:AC:597:ARG:HB3	1.92	0.51
1:B:533:ASP:O	1:AC:658:VAL:HA	2.11	0.51
1:H:594:ASN:HB3	1:H:597:ARG:HB3	1.92	0.51
1:H:735:ILE:HA	1:H:738:GLU:HG3	1.91	0.51
1:I:594:ASN:HB3	1:I:597:ARG:HB3	1.92	0.51
1:K:138:MET:N	1:K:141:ASP:OD2	2.36	0.51
1:N:95:ASP:CB	1:P:85:HIS:NE2	2.74	0.51
1:P:221:LEU:HD21	1:P:227:LEU:HB2	1.92	0.51
1:P:755:THR:O	1:P:759:LEU:HB2	2.09	0.51
1:S:594:ASN:HB3	1:S:597:ARG:HB3	1.92	0.51
1:S:735:ILE:HA	1:S:738:GLU:HG3	1.91	0.51
1:X:648:GLN:HA	1:X:651:ARG:HD2	1.91	0.51
1:BA:221:LEU:HD21	1:BA:227:LEU:HB2	1.92	0.51
1:CA:26:SER:O	1:CA:101:PRO:HG2	2.10	0.51
1:FA:218:ALA:HB2	1:FA:260:VAL:HG22	1.91	0.51
1:HA:790:VAL:HG13	1:JA:788:ALA:CB	2.38	0.51
1:IA:598:ILE:HA	1:IA:601:MET:HG3	1.92	0.51
1:IA:654:LEU:O	1:IA:658:VAL:HG23	2.11	0.51
1:JA:138:MET:N	1:JA:141:ASP:OD2	2.36	0.51
1:MA:594:ASN:HB3	1:MA:597:ARG:HB3	1.92	0.51
1:PA:287:PRO:HA	1:PA:314:GLU:HG2	1.92	0.51
1:PA:654:LEU:O	1:PA:658:VAL:HG23	2.11	0.51
1:RA:648:GLN:HA	1:RA:651:ARG:HD2	1.91	0.51
1:SA:26:SER:O	1:SA:101:PRO:HG2	2.10	0.51
1:XA:682:GLN:OE1	1:XA:685:ARG:NH2	2.41	0.51
1:CB:713:SER:OG	1:DB:703:ARG:HG2	2.10	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:FB:218:ALA:HB2	1:FB:260:VAL:HG22	1.91	0.51
1:HB:287:PRO:HA	1:HB:314:GLU:HG2	1.92	0.51
1:LB:506:LYS:O	1:LB:507:ARG:NE	2.41	0.51
1:NB:682:GLN:OE1	1:NB:685:ARG:NH2	2.41	0.51
1:OB:594:ASN:HB3	1:OB:597:ARG:HB3	1.92	0.51
1:QB:654:LEU:O	1:QB:658:VAL:HG23	2.11	0.51
1:UB:26:SER:O	1:UB:101:PRO:HG2	2.09	0.51
1:UB:287:PRO:HA	1:UB:314:GLU:HG2	1.92	0.51
1:VB:654:LEU:O	1:VB:658:VAL:HG23	2.11	0.51
1:WB:221:LEU:HD21	1:WB:227:LEU:HB2	1.92	0.51
1:XB:575:ILE:HD11	1:XB:635:VAL:HG21	1.91	0.51
1:B:411:ASP:OD1	1:B:411:ASP:N	2.42	0.51
1:D:654:LEU:O	1:D:658:VAL:HG23	2.11	0.51
1:E:682:GLN:OE1	1:E:685:ARG:NH2	2.41	0.51
1:J:26:SER:O	1:J:101:PRO:HG2	2.09	0.51
1:L:654:LEU:O	1:L:658:VAL:HG23	2.11	0.51
1:O:221:LEU:HD21	1:O:227:LEU:HB2	1.92	0.51
1:S:285:LEU:N	1:S:315:ARG:O	2.41	0.51
1:T:196:TRP:HA	1:T:263:VAL:HG21	1.93	0.51
1:T:735:ILE:HA	1:T:738:GLU:HG3	1.91	0.51
1:W:221:LEU:HD21	1:W:227:LEU:HB2	1.92	0.51
1:X:411:ASP:OD1	1:X:411:ASP:N	2.42	0.51
1:X:598:ILE:HA	1:X:601:MET:HG3	1.92	0.51
1:Z:218:ALA:HB2	1:Z:260:VAL:HG22	1.91	0.51
1:AA:182:CYS:O	1:AA:190:ARG:N	2.35	0.51
1:EA:62:ALA:HB3	1:EA:104:LEU:HB3	1.93	0.51
1:EA:575:ILE:HD11	1:EA:635:VAL:HG21	1.91	0.51
1:GA:218:ALA:HB2	1:GA:260:VAL:HG22	1.91	0.51
1:GA:221:LEU:HD21	1:GA:227:LEU:HB2	1.92	0.51
1:HA:598:ILE:HA	1:HA:601:MET:HG3	1.92	0.51
1:JA:648:GLN:HA	1:JA:651:ARG:HD2	1.91	0.51
1:JA:654:LEU:O	1:JA:658:VAL:HG23	2.11	0.51
1:LA:423:VAL:HG21	1:LA:452:ARG:HD2	1.93	0.51
1:QA:347:GLU:OE2	1:QA:351:HIS:NE2	2.39	0.51
1:QA:654:LEU:O	1:QA:658:VAL:HG23	2.11	0.51
1:RA:26:SER:O	1:RA:101:PRO:HG2	2.09	0.51
1:RA:287:PRO:HA	1:RA:314:GLU:HG2	1.92	0.51
1:SA:218:ALA:HB2	1:SA:260:VAL:HG22	1.91	0.51
1:UA:287:PRO:HA	1:UA:314:GLU:HG2	1.92	0.51
1:WA:654:LEU:O	1:WA:658:VAL:HG23	2.11	0.51
1:YA:287:PRO:HA	1:YA:314:GLU:HG2	1.92	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:ZA:654:LEU:O	1:ZA:658:VAL:HG23	2.11	0.51
1:AB:221:LEU:HD21	1:AB:227:LEU:HB2	1.92	0.51
1:CB:598:ILE:HA	1:CB:601:MET:HG3	1.92	0.51
1:EB:62:ALA:HB3	1:EB:104:LEU:HB3	1.93	0.51
1:GB:221:LEU:HD21	1:GB:227:LEU:HB2	1.92	0.51
1:GB:706:LEU:CD2	1:HB:693:ILE:HG23	2.39	0.51
1:IB:91:ARG:NH1	1:IB:94:GLN:OE1	2.38	0.51
1:KB:375:GLU:OE2	1:KB:377:ARG:NE	2.43	0.51
1:KB:654:LEU:O	1:KB:658:VAL:HG23	2.11	0.51
1:KB:735:ILE:HA	1:KB:738:GLU:HG3	1.91	0.51
1:LB:464:HIS:CE1	1:MB:496:THR:OG1	2.62	0.51
1:OB:258:ALA:N	1:PB:245:THR:OG1	2.43	0.51
1:RB:467:ALA:HB2	1:RB:518:LEU:HD11	1.93	0.51
1:RB:654:LEU:O	1:RB:658:VAL:HG23	2.11	0.51
1:SB:682:GLN:OE1	1:SB:685:ARG:NH2	2.41	0.51
1:UB:713:SER:OG	1:VB:707:LEU:CD1	2.59	0.51
1:XB:654:LEU:O	1:XB:658:VAL:HG23	2.11	0.51
1:YB:17:HIS:NE2	1:YB:99:LEU:O	2.33	0.51
1:YB:218:ALA:HB2	1:YB:260:VAL:HG22	1.91	0.51
1:ZB:327:SER:H	1:ZB:330:GLN:HB2	1.76	0.51
1:ZB:654:LEU:O	1:ZB:658:VAL:HG23	2.11	0.51
1:A:327:SER:H	1:A:330:GLN:HB2	1.76	0.51
1:D:114:VAL:CG2	1:F:138:MET:HE1	2.41	0.51
1:D:287:PRO:HA	1:D:314:GLU:HG2	1.92	0.51
1:E:221:LEU:HD21	1:E:227:LEU:HB2	1.92	0.51
1:G:62:ALA:HB3	1:G:104:LEU:HB3	1.93	0.51
1:G:594:ASN:HB3	1:G:597:ARG:HB3	1.92	0.51
1:K:62:ALA:HB3	1:K:104:LEU:HB3	1.93	0.51
1:L:56:ARG:HH12	1:N:128:ASP:HB2	1.74	0.51
1:L:96:PRO:CD	1:N:85:HIS:CG	2.85	0.51
1:L:221:LEU:HD21	1:L:227:LEU:HB2	1.92	0.51
1:N:594:ASN:HB3	1:N:597:ARG:HB3	1.92	0.51
1:P:62:ALA:HB3	1:P:104:LEU:HB3	1.93	0.51
1:R:287:PRO:HA	1:R:314:GLU:HG2	1.92	0.51
1:S:287:PRO:HA	1:S:314:GLU:HG2	1.92	0.51
1:T:654:LEU:O	1:T:658:VAL:HG23	2.11	0.51
1:W:327:SER:H	1:W:330:GLN:HB2	1.76	0.51
1:X:423:VAL:HG21	1:X:452:ARG:HD2	1.93	0.51
1:X:594:ASN:HB3	1:X:597:ARG:HB3	1.92	0.51
1:DA:654:LEU:O	1:DA:658:VAL:HG23	2.11	0.51
1:EA:375:GLU:OE2	1:EA:377:ARG:NE	2.43	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:FA:327:SER:H	1:FA:330:GLN:HB2	1.76	0.51
1:IA:287:PRO:HA	1:IA:314:GLU:HG2	1.92	0.51
1:IA:768:MET:SD	1:KA:759:LEU:CD1	2.99	0.51
1:LA:411:ASP:OD1	1:LA:411:ASP:N	2.42	0.51
1:MA:598:ILE:HA	1:MA:601:MET:HG3	1.92	0.51
1:NA:221:LEU:HD21	1:NA:227:LEU:HB2	1.92	0.51
1:NA:598:ILE:HA	1:NA:601:MET:HG3	1.92	0.51
1:PA:62:ALA:HB3	1:PA:104:LEU:HB3	1.93	0.51
1:QA:423:VAL:HG21	1:QA:452:ARG:HD2	1.93	0.51
1:QA:461:ARG:NH1	1:SA:473:TYR:CE2	2.79	0.51
1:RA:62:ALA:HB3	1:RA:104:LEU:HB3	1.93	0.51
1:RA:138:MET:N	1:RA:141:ASP:OD2	2.36	0.51
1:RA:327:SER:H	1:RA:330:GLN:HB2	1.76	0.51
1:WA:506:LYS:O	1:WA:507:ARG:NE	2.41	0.51
1:XA:423:VAL:HG21	1:XA:452:ARG:HD2	1.93	0.51
1:AB:196:TRP:HA	1:AB:263:VAL:HG21	1.93	0.51
1:AB:411:ASP:OD1	1:AB:411:ASP:N	2.42	0.51
1:BB:411:ASP:N	1:BB:411:ASP:OD1	2.42	0.51
1:BB:654:LEU:O	1:BB:658:VAL:HG23	2.11	0.51
1:BB:691:GLN:OE1	1:CB:679:ARG:HD2	2.10	0.51
1:EB:594:ASN:HB3	1:EB:597:ARG:HB3	1.92	0.51
1:GB:654:LEU:O	1:GB:658:VAL:HG23	2.11	0.51
1:HB:196:TRP:HA	1:HB:263:VAL:HG21	1.93	0.51
1:JB:598:ILE:HA	1:JB:601:MET:HG3	1.92	0.51
1:KB:522:PHE:CD2	1:LB:573:LYS:HE2	2.46	0.51
1:KB:575:ILE:HD11	1:KB:635:VAL:HG21	1.91	0.51
1:LB:666:THR:HG21	1:MB:657:SER:CB	2.34	0.51
1:OB:423:VAL:HG21	1:OB:452:ARG:HD2	1.93	0.51
1:RB:62:ALA:HB3	1:RB:104:LEU:HB3	1.93	0.51
1:RB:598:ILE:HA	1:RB:601:MET:HG3	1.92	0.51
1:VB:64:PRO:O	1:VB:84:ARG:N	2.28	0.51
1:WB:138:MET:N	1:WB:141:ASP:OD2	2.36	0.51
1:WB:411:ASP:OD1	1:WB:411:ASP:N	2.42	0.51
1:YB:285:LEU:N	1:YB:315:ARG:O	2.41	0.51
1:ZB:62:ALA:HB3	1:ZB:104:LEU:HB3	1.93	0.51
1:AC:423:VAL:HG21	1:AC:452:ARG:HD2	1.93	0.51
1:A:62:ALA:HB3	1:A:104:LEU:HB3	1.93	0.51
1:A:411:ASP:OD1	1:A:411:ASP:N	2.42	0.51
1:A:709:LEU:HD13	1:C:701:LYS:HA	1.93	0.51
1:B:196:TRP:HA	1:B:263:VAL:HG21	1.93	0.51
1:B:742:LEU:HD23	1:D:734:ARG:CD	2.37	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:91:ARG:NH1	1:D:94:GLN:OE1	2.39	0.51
1:E:196:TRP:HA	1:E:263:VAL:HG21	1.93	0.51
1:F:287:PRO:HA	1:F:314:GLU:HG2	1.92	0.51
1:F:327:SER:H	1:F:330:GLN:HB2	1.76	0.51
1:F:423:VAL:HG21	1:F:452:ARG:HD2	1.93	0.51
1:F:654:LEU:O	1:F:658:VAL:HG23	2.11	0.51
1:G:806:THR:HG22	1:I:804:PRO:HA	1.93	0.51
1:H:26:SER:O	1:H:101:PRO:HG2	2.10	0.51
1:H:411:ASP:OD1	1:H:411:ASP:N	2.42	0.51
1:H:423:VAL:HG21	1:H:452:ARG:HD2	1.93	0.51
1:I:91:ARG:NH1	1:I:94:GLN:OE1	2.38	0.51
1:I:648:GLN:HA	1:I:651:ARG:HD2	1.91	0.51
1:J:506:LYS:O	1:J:507:ARG:NE	2.41	0.51
1:J:654:LEU:O	1:J:658:VAL:HG23	2.11	0.51
1:J:735:ILE:HA	1:J:738:GLU:HG3	1.91	0.51
1:K:411:ASP:N	1:K:411:ASP:OD1	2.42	0.51
1:M:287:PRO:HA	1:M:314:GLU:HG2	1.92	0.51
1:M:327:SER:H	1:M:330:GLN:HB2	1.76	0.51
1:N:26:SER:O	1:N:101:PRO:HG2	2.09	0.51
1:Q:411:ASP:OD1	1:Q:411:ASP:N	2.42	0.51
1:R:196:TRP:HA	1:R:263:VAL:HG21	1.93	0.51
1:R:575:ILE:HD11	1:R:635:VAL:HG21	1.91	0.51
1:S:62:ALA:HB3	1:S:104:LEU:HB3	1.93	0.51
1:Y:221:LEU:HD21	1:Y:227:LEU:HB2	1.92	0.51
1:Y:682:GLN:OE1	1:Y:685:ARG:NH2	2.41	0.51
1:Z:62:ALA:HB3	1:Z:104:LEU:HB3	1.93	0.51
1:AA:594:ASN:HB3	1:AA:597:ARG:HB3	1.92	0.51
1:CA:287:PRO:HA	1:CA:314:GLU:HG2	1.92	0.51
1:FA:221:LEU:HD21	1:FA:227:LEU:HB2	1.92	0.51
1:FA:682:GLN:OE1	1:FA:685:ARG:NH2	2.41	0.51
1:JA:221:LEU:HD21	1:JA:227:LEU:HB2	1.92	0.51
1:JA:327:SER:H	1:JA:330:GLN:HB2	1.76	0.51
1:KA:26:SER:O	1:KA:101:PRO:HG2	2.10	0.51
1:MA:92:LEU:O	1:MA:94:GLN:HG2	2.11	0.51
1:MA:327:SER:H	1:MA:330:GLN:HB2	1.76	0.51
1:OA:287:PRO:HA	1:OA:314:GLU:HG2	1.92	0.51
1:SA:62:ALA:HB3	1:SA:104:LEU:HB3	1.93	0.51
1:UA:411:ASP:OD1	1:UA:411:ASP:N	2.42	0.51
1:VA:287:PRO:HA	1:VA:314:GLU:HG2	1.92	0.51
1:VA:654:LEU:O	1:VA:658:VAL:HG23	2.11	0.51
1:XA:92:LEU:O	1:XA:94:GLN:HG2	2.11	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:XA:196:TRP:HA	1:XA:263:VAL:HG21	1.93	0.51
1:ZA:62:ALA:HB3	1:ZA:104:LEU:HB3	1.93	0.51
1:ZA:196:TRP:HA	1:ZA:263:VAL:HG21	1.93	0.51
1:AB:92:LEU:O	1:AB:94:GLN:HG2	2.11	0.51
1:AB:598:ILE:HA	1:AB:601:MET:HG3	1.92	0.51
1:AB:654:LEU:O	1:AB:658:VAL:HG23	2.11	0.51
1:BB:327:SER:H	1:BB:330:GLN:HB2	1.76	0.51
1:BB:682:GLN:OE1	1:BB:685:ARG:NH2	2.41	0.51
1:DB:682:GLN:OE1	1:DB:685:ARG:NH2	2.41	0.51
1:FB:682:GLN:OE1	1:FB:685:ARG:NH2	2.41	0.51
1:HB:423:VAL:HG21	1:HB:452:ARG:HD2	1.93	0.51
1:HB:654:LEU:O	1:HB:658:VAL:HG23	2.11	0.51
1:IB:196:TRP:HA	1:IB:263:VAL:HG21	1.93	0.51
1:IB:423:VAL:HG21	1:IB:452:ARG:HD2	1.93	0.51
1:IB:594:ASN:HB3	1:IB:597:ARG:HB3	1.92	0.51
1:KB:62:ALA:HB3	1:KB:104:LEU:HB3	1.93	0.51
1:LB:423:VAL:HG21	1:LB:452:ARG:HD2	1.93	0.51
1:LB:654:LEU:O	1:LB:658:VAL:HG23	2.11	0.51
1:MB:594:ASN:HB3	1:MB:597:ARG:HB3	1.92	0.51
1:NB:287:PRO:HA	1:NB:314:GLU:HG2	1.92	0.51
1:PB:735:ILE:HA	1:PB:738:GLU:HG3	1.91	0.51
1:RB:327:SER:H	1:RB:330:GLN:HB2	1.76	0.51
1:SB:92:LEU:O	1:SB:94:GLN:HG2	2.11	0.51
1:SB:768:MET:SD	1:TB:759:LEU:HD11	2.51	0.51
1:UB:594:ASN:HB3	1:UB:597:ARG:HB3	1.92	0.51
1:VB:682:GLN:OE1	1:VB:685:ARG:NH2	2.41	0.51
1:WB:92:LEU:O	1:WB:94:GLN:HG2	2.11	0.51
1:WB:682:GLN:OE1	1:WB:685:ARG:NH2	2.41	0.51
1:XB:92:LEU:O	1:XB:94:GLN:HG2	2.11	0.51
1:YB:467:ALA:HB2	1:YB:518:LEU:HD11	1.93	0.51
1:ZB:287:PRO:HA	1:ZB:314:GLU:HG2	1.92	0.51
1:ZB:423:VAL:HG21	1:ZB:452:ARG:HD2	1.93	0.51
1:ZB:801:ALA:CB	1:AC:799:THR:OG1	2.55	0.51
1:AC:62:ALA:HB3	1:AC:104:LEU:HB3	1.93	0.51
1:AC:138:MET:N	1:AC:141:ASP:OD2	2.36	0.51
1:B:533:ASP:OD2	1:B:587:THR:OG1	2.17	0.51
1:B:534:HIS:O	1:AC:658:VAL:CG2	2.58	0.51
1:C:654:LEU:O	1:C:658:VAL:HG23	2.11	0.51
1:C:728:SER:CB	1:E:718:SER:O	2.59	0.51
1:D:12:PRO:HD3	1:F:80:GLN:HE21	1.76	0.51
1:D:224:LYS:NZ	1:F:294:ASN:HD22	2.09	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:327:SER:H	1:D:330:GLN:HB2	1.76	0.51
1:E:299:LYS:NZ	1:E:317:GLU:OE2	2.32	0.51
1:G:92:LEU:O	1:G:94:GLN:HG2	2.11	0.51
1:G:327:SER:H	1:G:330:GLN:HB2	1.76	0.51
1:H:768:MET:HE1	1:J:763:LYS:HB2	1.93	0.51
1:K:26:SER:O	1:K:101:PRO:HG2	2.09	0.51
1:K:92:LEU:O	1:K:94:GLN:HG2	2.11	0.51
1:K:467:ALA:HB2	1:K:518:LEU:HD11	1.93	0.51
1:L:813:ALA:HB2	1:N:811:ALA:HB1	1.93	0.51
1:M:92:LEU:O	1:M:94:GLN:HG2	2.11	0.51
1:N:327:SER:H	1:N:330:GLN:HB2	1.76	0.51
1:N:411:ASP:OD1	1:N:411:ASP:N	2.42	0.51
1:N:423:VAL:HG21	1:N:452:ARG:HD2	1.93	0.51
1:O:91:ARG:NH1	1:O:94:GLN:OE1	2.39	0.51
1:O:648:GLN:HA	1:O:651:ARG:HD2	1.91	0.51
1:O:654:LEU:O	1:O:658:VAL:HG23	2.11	0.51
1:P:815:PRO:CG	1:R:815:PRO:C	2.77	0.51
1:Q:423:VAL:HG21	1:Q:452:ARG:HD2	1.93	0.51
1:Q:594:ASN:HB3	1:Q:597:ARG:HB3	1.92	0.51
1:S:506:LYS:O	1:S:507:ARG:NE	2.41	0.51
1:S:654:LEU:O	1:S:658:VAL:HG23	2.11	0.51
1:T:598:ILE:HA	1:T:601:MET:HG3	1.92	0.51
1:V:91:ARG:NH1	1:V:94:GLN:OE1	2.39	0.51
1:V:327:SER:H	1:V:330:GLN:HB2	1.76	0.51
1:Z:598:ILE:HA	1:Z:601:MET:HG3	1.92	0.51
1:EA:92:LEU:O	1:EA:94:GLN:HG2	2.11	0.51
1:GA:92:LEU:O	1:GA:94:GLN:HG2	2.11	0.51
1:IA:506:LYS:O	1:IA:507:ARG:NE	2.41	0.51
1:IA:595:SER:HB2	1:KA:580:ARG:NH1	2.19	0.51
1:JA:423:VAL:HG21	1:JA:452:ARG:HD2	1.93	0.51
1:KA:196:TRP:HA	1:KA:263:VAL:HG21	1.93	0.51
1:KA:287:PRO:HA	1:KA:314:GLU:HG2	1.92	0.51
1:OA:92:LEU:O	1:OA:94:GLN:HG2	2.11	0.51
1:OA:423:VAL:HG21	1:OA:452:ARG:HD2	1.93	0.51
1:SA:467:ALA:HB2	1:SA:518:LEU:HD11	1.93	0.51
1:XA:64:PRO:O	1:XA:84:ARG:N	2.28	0.51
1:XA:735:ILE:HA	1:XA:738:GLU:HG3	1.91	0.51
1:YA:196:TRP:HA	1:YA:263:VAL:HG21	1.93	0.51
1:YA:594:ASN:HB3	1:YA:597:ARG:HB3	1.92	0.51
1:YA:598:ILE:HA	1:YA:601:MET:HG3	1.92	0.51
1:ZA:92:LEU:O	1:ZA:94:GLN:HG2	2.11	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:BB:92:LEU:O	1:BB:94:GLN:HG2	2.11	0.51
1:CB:467:ALA:HB2	1:CB:518:LEU:HD11	1.93	0.51
1:HB:62:ALA:HB3	1:HB:104:LEU:HB3	1.93	0.51
1:JB:327:SER:H	1:JB:330:GLN:HB2	1.76	0.51
1:LB:196:TRP:HA	1:LB:263:VAL:HG21	1.93	0.51
1:LB:593:LYS:O	1:MB:585:SER:CA	2.59	0.51
1:MB:287:PRO:HA	1:MB:314:GLU:HG2	1.92	0.51
1:MB:423:VAL:HG21	1:MB:452:ARG:HD2	1.93	0.51
1:OB:92:LEU:O	1:OB:94:GLN:HG2	2.11	0.51
1:PB:182:CYS:O	1:PB:190:ARG:N	2.35	0.51
1:PB:598:ILE:HA	1:PB:601:MET:HG3	1.92	0.51
1:RB:221:LEU:HD21	1:RB:227:LEU:HB2	1.92	0.51
1:RB:423:VAL:HG21	1:RB:452:ARG:HD2	1.93	0.51
1:TB:783:LYS:HD2	1:UB:777:LEU:CG	2.34	0.51
1:UB:327:SER:H	1:UB:330:GLN:HB2	1.76	0.51
1:UB:731:GLU:HB3	1:VB:722:ALA:HB1	1.93	0.51
1:A:506:LYS:O	1:A:507:ARG:NE	2.41	0.51
1:B:682:GLN:OE1	1:B:685:ARG:NH2	2.41	0.51
1:D:54:PRO:HG3	1:F:86:ALA:O	2.10	0.51
1:D:117:PRO:HD2	1:F:180:LYS:CD	2.41	0.51
1:D:542:ALA:HB2	1:F:573:LYS:HZ3	1.75	0.51
1:E:654:LEU:O	1:E:658:VAL:HG23	2.11	0.51
1:F:64:PRO:O	1:F:84:ARG:N	2.28	0.51
1:G:196:TRP:HA	1:G:263:VAL:HG21	1.93	0.51
1:H:682:GLN:OE1	1:H:685:ARG:NH2	2.41	0.51
1:L:682:GLN:OE1	1:L:685:ARG:NH2	2.41	0.51
1:N:465:ASN:ND2	1:P:563:SER:HA	2.13	0.51
1:P:506:LYS:O	1:P:507:ARG:NE	2.41	0.51
1:Q:706:LEU:CD2	1:S:693:ILE:HG23	2.39	0.51
1:T:92:LEU:O	1:T:94:GLN:HG2	2.11	0.51
1:T:423:VAL:HG21	1:T:452:ARG:HD2	1.93	0.51
1:W:654:LEU:O	1:W:658:VAL:HG23	2.11	0.51
1:Y:287:PRO:HA	1:Y:314:GLU:HG2	1.92	0.51
1:Z:423:VAL:HG21	1:Z:452:ARG:HD2	1.93	0.51
1:EA:594:ASN:HB3	1:EA:597:ARG:HB3	1.92	0.51
1:HA:288:MET:HG3	1:HA:293:LYS:C	2.32	0.51
1:HA:299:LYS:NZ	1:HA:317:GLU:OE2	2.32	0.51
1:KA:423:VAL:HG21	1:KA:452:ARG:HD2	1.93	0.51
1:KA:654:LEU:O	1:KA:658:VAL:HG23	2.11	0.51
1:LA:218:ALA:HB2	1:LA:260:VAL:HG22	1.91	0.51
1:LA:287:PRO:HA	1:LA:314:GLU:HG2	1.92	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:MA:218:ALA:HB2	1:MA:260:VAL:HG22	1.91	0.51
1:NA:138:MET:N	1:NA:141:ASP:OD2	2.36	0.51
1:OA:654:LEU:O	1:OA:658:VAL:HG23	2.11	0.51
1:QA:598:ILE:HA	1:QA:601:MET:HG3	1.92	0.51
1:RA:467:ALA:HB2	1:RA:518:LEU:HD11	1.93	0.51
1:RA:654:LEU:O	1:RA:658:VAL:HG23	2.11	0.51
1:SA:423:VAL:HG21	1:SA:452:ARG:HD2	1.93	0.51
1:XA:285:LEU:N	1:XA:315:ARG:O	2.41	0.51
1:AB:735:ILE:HA	1:AB:738:GLU:HG3	1.91	0.51
1:BB:533:ASP:OD2	1:BB:587:THR:OG1	2.17	0.51
1:EB:92:LEU:O	1:EB:94:GLN:HG2	2.11	0.51
1:EB:654:LEU:O	1:EB:658:VAL:HG23	2.11	0.51
1:FB:221:LEU:HD21	1:FB:227:LEU:HB2	1.92	0.51
1:FB:654:LEU:O	1:FB:658:VAL:HG23	2.11	0.51
1:GB:423:VAL:HG21	1:GB:452:ARG:HD2	1.93	0.51
1:JB:682:GLN:OE1	1:JB:685:ARG:NH2	2.41	0.51
1:KB:423:VAL:HG21	1:KB:452:ARG:HD2	1.93	0.51
1:LB:375:GLU:OE2	1:LB:377:ARG:NE	2.43	0.51
1:LB:594:ASN:HB3	1:LB:597:ARG:HB3	1.92	0.51
1:LB:692:LYS:HG2	1:MB:682:GLN:CD	2.24	0.51
1:MB:62:ALA:HB3	1:MB:104:LEU:HB3	1.93	0.51
1:NB:327:SER:H	1:NB:330:GLN:HB2	1.76	0.51
1:QB:221:LEU:HD21	1:QB:227:LEU:HB2	1.92	0.51
1:RB:506:LYS:O	1:RB:507:ARG:NE	2.41	0.51
1:SB:287:PRO:HA	1:SB:314:GLU:HG2	1.92	0.51
1:SB:654:LEU:O	1:SB:658:VAL:HG23	2.11	0.51
1:TB:575:ILE:HD11	1:TB:635:VAL:HG21	1.91	0.51
1:UB:467:ALA:HB2	1:UB:518:LEU:HD11	1.93	0.51
1:VB:287:PRO:HA	1:VB:314:GLU:HG2	1.92	0.51
1:VB:728:SER:HA	1:WB:722:ALA:HB3	1.91	0.51
1:A:288:MET:HG3	1:A:293:LYS:C	2.32	0.50
1:A:706:LEU:HD11	1:C:696:GLN:HB2	1.85	0.50
1:A:717:GLU:HB2	1:C:707:LEU:HB3	1.93	0.50
1:A:764:LYS:NZ	1:C:756:GLU:CG	2.75	0.50
1:A:764:LYS:NZ	1:C:752:ALA:O	2.43	0.50
1:B:62:ALA:HB3	1:B:104:LEU:HB3	1.93	0.50
1:C:62:ALA:HB3	1:C:104:LEU:HB3	1.93	0.50
1:D:92:LEU:O	1:D:94:GLN:HG2	2.11	0.50
1:D:196:TRP:HA	1:D:263:VAL:HG21	1.93	0.50
1:D:598:ILE:HA	1:D:601:MET:HG3	1.92	0.50
1:E:65:VAL:O	1:E:84:ARG:NH2	2.45	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:92:LEU:O	1:F:94:GLN:HG2	2.11	0.50
1:G:65:VAL:O	1:G:84:ARG:NH2	2.45	0.50
1:I:92:LEU:O	1:I:94:GLN:HG2	2.11	0.50
1:K:65:VAL:O	1:K:84:ARG:NH2	2.45	0.50
1:K:423:VAL:HG21	1:K:452:ARG:HD2	1.93	0.50
1:K:654:LEU:O	1:K:658:VAL:HG23	2.11	0.50
1:M:423:VAL:HG21	1:M:452:ARG:HD2	1.93	0.50
1:M:506:LYS:O	1:M:507:ARG:NE	2.41	0.50
1:N:598:ILE:HA	1:N:601:MET:HG3	1.92	0.50
1:O:575:ILE:HD11	1:O:635:VAL:HG21	1.91	0.50
1:R:62:ALA:HB3	1:R:104:LEU:HB3	1.93	0.50
1:R:92:LEU:O	1:R:94:GLN:HG2	2.11	0.50
1:R:221:LEU:HD21	1:R:227:LEU:HB2	1.92	0.50
1:V:92:LEU:O	1:V:94:GLN:HG2	2.11	0.50
1:V:594:ASN:HB3	1:V:597:ARG:HB3	1.92	0.50
1:W:62:ALA:HB3	1:W:104:LEU:HB3	1.93	0.50
1:W:92:LEU:O	1:W:94:GLN:HG2	2.11	0.50
1:X:62:ALA:HB3	1:X:104:LEU:HB3	1.93	0.50
1:Z:287:PRO:HA	1:Z:314:GLU:HG2	1.92	0.50
1:AA:423:VAL:HG21	1:AA:452:ARG:HD2	1.93	0.50
1:BA:62:ALA:HB3	1:BA:104:LEU:HB3	1.93	0.50
1:BA:467:ALA:HB2	1:BA:518:LEU:HD11	1.93	0.50
1:DA:287:PRO:HA	1:DA:314:GLU:HG2	1.92	0.50
1:DA:327:SER:H	1:DA:330:GLN:HB2	1.76	0.50
1:DA:467:ALA:HB2	1:DA:518:LEU:HD11	1.93	0.50
1:EA:654:LEU:O	1:EA:658:VAL:HG23	2.11	0.50
1:HA:287:PRO:HA	1:HA:314:GLU:HG2	1.92	0.50
1:IA:423:VAL:HG21	1:IA:452:ARG:HD2	1.93	0.50
1:KA:288:MET:HG3	1:KA:293:LYS:C	2.32	0.50
1:LA:92:LEU:O	1:LA:94:GLN:HG2	2.11	0.50
1:LA:654:LEU:O	1:LA:658:VAL:HG23	2.11	0.50
1:MA:423:VAL:HG21	1:MA:452:ARG:HD2	1.93	0.50
1:NA:32:PRO:HB2	1:PA:24:ASN:HD22	1.76	0.50
1:NA:735:ILE:HA	1:NA:738:GLU:HG3	1.91	0.50
1:OA:91:ARG:NH1	1:OA:94:GLN:OE1	2.39	0.50
1:OA:598:ILE:HA	1:OA:601:MET:HG3	1.92	0.50
1:PA:598:ILE:HA	1:PA:601:MET:HG3	1.92	0.50
1:QA:467:ALA:HB2	1:QA:518:LEU:HD11	1.93	0.50
1:RA:594:ASN:HB3	1:RA:597:ARG:HB3	1.92	0.50
1:TA:288:MET:HG3	1:TA:293:LYS:C	2.32	0.50
1:TA:467:ALA:HB2	1:TA:518:LEU:HD11	1.93	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:VA:682:GLN:OE1	1:VA:685:ARG:NH2	2.41	0.50
1:XA:221:LEU:HD21	1:XA:227:LEU:HB2	1.92	0.50
1:XA:287:PRO:HA	1:XA:314:GLU:HG2	1.92	0.50
1:XA:654:LEU:O	1:XA:658:VAL:HG23	2.11	0.50
1:BB:287:PRO:HA	1:BB:314:GLU:HG2	1.92	0.50
1:BB:299:LYS:NZ	1:BB:317:GLU:OE2	2.32	0.50
1:DB:423:VAL:HG21	1:DB:452:ARG:HD2	1.93	0.50
1:DB:467:ALA:HB2	1:DB:518:LEU:HD11	1.93	0.50
1:EB:196:TRP:HA	1:EB:263:VAL:HG21	1.93	0.50
1:EB:691:GLN:OE1	1:FB:679:ARG:NE	2.44	0.50
1:FB:92:LEU:O	1:FB:94:GLN:HG2	2.11	0.50
1:GB:92:LEU:O	1:GB:94:GLN:HG2	2.11	0.50
1:GB:287:PRO:HA	1:GB:314:GLU:HG2	1.92	0.50
1:JB:287:PRO:HA	1:JB:314:GLU:HG2	1.92	0.50
1:JB:288:MET:HG3	1:JB:293:LYS:C	2.32	0.50
1:KB:196:TRP:HA	1:KB:263:VAL:HG21	1.93	0.50
1:KB:467:ALA:HB2	1:KB:518:LEU:HD11	1.93	0.50
1:LB:713:SER:OG	1:MB:703:ARG:O	2.28	0.50
1:NB:654:LEU:O	1:NB:658:VAL:HG23	2.11	0.50
1:OB:62:ALA:HB3	1:OB:104:LEU:HB3	1.93	0.50
1:OB:287:PRO:HA	1:OB:314:GLU:HG2	1.92	0.50
1:OB:327:SER:H	1:OB:330:GLN:HB2	1.76	0.50
1:PB:287:PRO:HA	1:PB:314:GLU:HG2	1.92	0.50
1:QB:288:MET:HG3	1:QB:293:LYS:C	2.32	0.50
1:QB:411:ASP:OD1	1:QB:411:ASP:N	2.42	0.50
1:RB:92:LEU:O	1:RB:94:GLN:HG2	2.11	0.50
1:TB:92:LEU:O	1:TB:94:GLN:HG2	2.11	0.50
1:TB:779:LEU:CD1	1:UB:774:ARG:NH2	2.74	0.50
1:UB:654:LEU:O	1:UB:658:VAL:HG23	2.11	0.50
1:UB:716:VAL:HG11	1:VB:707:LEU:HB3	1.94	0.50
1:VB:92:LEU:O	1:VB:94:GLN:HG2	2.11	0.50
1:VB:196:TRP:HA	1:VB:263:VAL:HG21	1.93	0.50
1:WB:196:TRP:HA	1:WB:263:VAL:HG21	1.93	0.50
1:YB:327:SER:H	1:YB:330:GLN:HB2	1.76	0.50
1:YB:654:LEU:O	1:YB:658:VAL:HG23	2.11	0.50
1:ZB:467:ALA:HB2	1:ZB:518:LEU:HD11	1.93	0.50
1:B:92:LEU:O	1:B:94:GLN:HG2	2.11	0.50
1:B:218:ALA:HB2	1:B:260:VAL:HG22	1.91	0.50
1:B:327:SER:H	1:B:330:GLN:HB2	1.76	0.50
1:B:423:VAL:HG21	1:B:452:ARG:HD2	1.93	0.50
1:B:571:ALA:HB2	1:B:633:LEU:HD21	1.94	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:65:VAL:O	1:C:84:ARG:NH2	2.45	0.50
1:D:62:ALA:HB3	1:D:104:LEU:HB3	1.93	0.50
1:D:423:VAL:HG21	1:D:452:ARG:HD2	1.93	0.50
1:E:92:LEU:O	1:E:94:GLN:HG2	2.11	0.50
1:E:423:VAL:HG21	1:E:452:ARG:HD2	1.93	0.50
1:E:598:ILE:HA	1:E:601:MET:HG3	1.92	0.50
1:G:287:PRO:HA	1:G:314:GLU:HG2	1.92	0.50
1:H:327:SER:H	1:H:330:GLN:HB2	1.76	0.50
1:I:65:VAL:O	1:I:84:ARG:NH2	2.45	0.50
1:L:327:SER:H	1:L:330:GLN:HB2	1.76	0.50
1:M:65:VAL:O	1:M:84:ARG:NH2	2.45	0.50
1:M:221:LEU:HD21	1:M:227:LEU:HB2	1.92	0.50
1:M:288:MET:HG3	1:M:293:LYS:C	2.32	0.50
1:N:62:ALA:HB3	1:N:104:LEU:HB3	1.93	0.50
1:N:288:MET:HG3	1:N:293:LYS:C	2.32	0.50
1:O:285:LEU:N	1:O:315:ARG:O	2.41	0.50
1:P:467:ALA:HB2	1:P:518:LEU:HD11	1.93	0.50
1:Q:327:SER:H	1:Q:330:GLN:HB2	1.76	0.50
1:T:65:VAL:O	1:T:84:ARG:NH2	2.45	0.50
1:W:65:VAL:O	1:W:84:ARG:NH2	2.45	0.50
1:W:138:MET:N	1:W:141:ASP:OD2	2.36	0.50
1:X:92:LEU:O	1:X:94:GLN:HG2	2.11	0.50
1:X:327:SER:H	1:X:330:GLN:HB2	1.76	0.50
1:X:654:LEU:O	1:X:658:VAL:HG23	2.11	0.50
1:Y:65:VAL:O	1:Y:84:ARG:NH2	2.45	0.50
1:Z:92:LEU:O	1:Z:94:GLN:HG2	2.11	0.50
1:Z:288:MET:HG3	1:Z:293:LYS:C	2.32	0.50
1:AA:218:ALA:HB2	1:AA:260:VAL:HG22	1.91	0.50
1:AA:467:ALA:HB2	1:AA:518:LEU:HD11	1.93	0.50
1:BA:92:LEU:O	1:BA:94:GLN:HG2	2.11	0.50
1:CA:92:LEU:O	1:CA:94:GLN:HG2	2.11	0.50
1:CA:221:LEU:HD21	1:CA:227:LEU:HB2	1.92	0.50
1:CA:467:ALA:HB2	1:CA:518:LEU:HD11	1.93	0.50
1:CA:654:LEU:O	1:CA:658:VAL:HG23	2.11	0.50
1:DA:288:MET:HG3	1:DA:293:LYS:C	2.32	0.50
1:IA:703:ARG:NH2	1:KA:693:ILE:HD11	2.27	0.50
1:JA:287:PRO:HA	1:JA:314:GLU:HG2	1.92	0.50
1:JA:288:MET:HG3	1:JA:293:LYS:C	2.32	0.50
1:KA:92:LEU:O	1:KA:94:GLN:HG2	2.11	0.50
1:MA:285:LEU:N	1:MA:315:ARG:O	2.41	0.50
1:NA:62:ALA:HB3	1:NA:104:LEU:HB3	1.93	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:PA:221:LEU:HD21	1:PA:227:LEU:HB2	1.92	0.50
1:QA:92:LEU:O	1:QA:94:GLN:HG2	2.11	0.50
1:QA:288:MET:HG3	1:QA:293:LYS:C	2.32	0.50
1:RA:288:MET:HG3	1:RA:293:LYS:C	2.32	0.50
1:RA:423:VAL:HG21	1:RA:452:ARG:HD2	1.93	0.50
1:RA:598:ILE:HA	1:RA:601:MET:HG3	1.92	0.50
1:SA:288:MET:HG3	1:SA:293:LYS:C	2.32	0.50
1:TA:62:ALA:HB3	1:TA:104:LEU:HB3	1.93	0.50
1:UA:91:ARG:NH1	1:UA:94:GLN:OE1	2.38	0.50
1:UA:327:SER:H	1:UA:330:GLN:HB2	1.76	0.50
1:VA:92:LEU:O	1:VA:94:GLN:HG2	2.11	0.50
1:VA:575:ILE:HD11	1:VA:635:VAL:HG21	1.91	0.50
1:WA:288:MET:HG3	1:WA:293:LYS:C	2.32	0.50
1:WA:327:SER:H	1:WA:330:GLN:HB2	1.76	0.50
1:ZA:65:VAL:O	1:ZA:84:ARG:NH2	2.45	0.50
1:ZA:423:VAL:HG21	1:ZA:452:ARG:HD2	1.93	0.50
1:ZA:673:ALA:HB2	1:BB:664:ILE:HD12	1.94	0.50
1:AB:17:HIS:NE2	1:AB:99:LEU:O	2.33	0.50
1:AB:327:SER:H	1:AB:330:GLN:HB2	1.76	0.50
1:AB:571:ALA:HB2	1:AB:633:LEU:HD21	1.94	0.50
1:BB:65:VAL:O	1:BB:84:ARG:NH2	2.45	0.50
1:CB:594:ASN:HB3	1:CB:597:ARG:HB3	1.92	0.50
1:CB:595:SER:CB	1:DB:580:ARG:HH12	2.24	0.50
1:CB:654:LEU:O	1:CB:658:VAL:HG23	2.11	0.50
1:DB:221:LEU:HD21	1:DB:227:LEU:HB2	1.92	0.50
1:DB:594:ASN:HB3	1:DB:597:ARG:HB3	1.92	0.50
1:EB:288:MET:HG3	1:EB:293:LYS:C	2.32	0.50
1:IB:375:GLU:OE2	1:IB:377:ARG:NE	2.43	0.50
1:IB:506:LYS:O	1:IB:507:ARG:NE	2.41	0.50
1:IB:654:LEU:O	1:IB:658:VAL:HG23	2.11	0.50
1:LB:467:ALA:HB2	1:LB:518:LEU:HD11	1.93	0.50
1:NB:423:VAL:HG21	1:NB:452:ARG:HD2	1.93	0.50
1:OB:654:LEU:O	1:OB:658:VAL:HG23	2.11	0.50
1:PB:92:LEU:O	1:PB:94:GLN:HG2	2.11	0.50
1:PB:288:MET:HG3	1:PB:293:LYS:C	2.32	0.50
1:QB:594:ASN:HB3	1:QB:597:ARG:HB3	1.92	0.50
1:SB:221:LEU:HD21	1:SB:227:LEU:HB2	1.92	0.50
1:WB:702:ALA:CB	1:XB:693:ILE:CG2	2.89	0.50
1:XB:327:SER:H	1:XB:330:GLN:HB2	1.76	0.50
1:YB:423:VAL:HG21	1:YB:452:ARG:HD2	1.93	0.50
1:A:423:VAL:HG21	1:A:452:ARG:HD2	1.93	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:327:SER:H	1:C:330:GLN:HB2	1.76	0.50
1:D:592:HIS:CD2	1:F:584:ALA:CA	2.94	0.50
1:G:654:LEU:O	1:G:658:VAL:HG23	2.11	0.50
1:H:196:TRP:HA	1:H:263:VAL:HG21	1.93	0.50
1:K:288:MET:HG3	1:K:293:LYS:C	2.32	0.50
1:K:327:SER:H	1:K:330:GLN:HB2	1.76	0.50
1:K:571:ALA:HB2	1:K:633:LEU:HD21	1.94	0.50
1:L:288:MET:HG3	1:L:293:LYS:C	2.32	0.50
1:L:806:THR:HG22	1:N:804:PRO:HA	1.92	0.50
1:N:652:ASP:HA	1:N:655:GLN:CB	2.42	0.50
1:O:65:VAL:O	1:O:84:ARG:NH2	2.45	0.50
1:P:654:LEU:O	1:P:658:VAL:HG23	2.11	0.50
1:S:92:LEU:O	1:S:94:GLN:HG2	2.11	0.50
1:S:182:CYS:O	1:S:190:ARG:N	2.36	0.50
1:S:196:TRP:HA	1:S:263:VAL:HG21	1.93	0.50
1:T:327:SER:H	1:T:330:GLN:HB2	1.76	0.50
1:V:196:TRP:HA	1:V:263:VAL:HG21	1.93	0.50
1:Y:652:ASP:HA	1:Y:655:GLN:CB	2.42	0.50
1:Z:327:SER:H	1:Z:330:GLN:HB2	1.76	0.50
1:BA:81:VAL:HG11	1:BA:100:TYR:HB3	1.94	0.50
1:BA:138:MET:N	1:BA:141:ASP:OD2	2.36	0.50
1:DA:62:ALA:HB3	1:DA:104:LEU:HB3	1.93	0.50
1:FA:467:ALA:HB2	1:FA:518:LEU:HD11	1.93	0.50
1:FA:652:ASP:HA	1:FA:655:GLN:CB	2.42	0.50
1:HA:196:TRP:HA	1:HA:263:VAL:HG21	1.93	0.50
1:HA:571:ALA:HB2	1:HA:633:LEU:HD21	1.94	0.50
1:IA:92:LEU:O	1:IA:94:GLN:HG2	2.11	0.50
1:JA:92:LEU:O	1:JA:94:GLN:HG2	2.11	0.50
1:JA:571:ALA:HB2	1:JA:633:LEU:HD21	1.94	0.50
1:KA:285:LEU:N	1:KA:315:ARG:O	2.41	0.50
1:KA:571:ALA:HB2	1:KA:633:LEU:HD21	1.94	0.50
1:LA:652:ASP:HA	1:LA:655:GLN:CB	2.42	0.50
1:NA:92:LEU:O	1:NA:94:GLN:HG2	2.11	0.50
1:OA:467:ALA:HB2	1:OA:518:LEU:HD11	1.93	0.50
1:QA:65:VAL:O	1:QA:84:ARG:NH2	2.45	0.50
1:RA:91:ARG:NH1	1:RA:94:GLN:OE1	2.39	0.50
1:RA:652:ASP:HA	1:RA:655:GLN:CB	2.42	0.50
1:SA:571:ALA:HB2	1:SA:633:LEU:HD21	1.94	0.50
1:UA:62:ALA:HB3	1:UA:104:LEU:HB3	1.93	0.50
1:YA:92:LEU:O	1:YA:94:GLN:HG2	2.11	0.50
1:CB:92:LEU:O	1:CB:94:GLN:HG2	2.11	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CB:571:ALA:HB2	1:CB:633:LEU:HD21	1.94	0.50
1:DB:288:MET:HG3	1:DB:293:LYS:C	2.32	0.50
1:FB:81:VAL:HG11	1:FB:100:TYR:HB3	1.94	0.50
1:FB:706:LEU:HD21	1:GB:697:SER:HG	1.70	0.50
1:GB:571:ALA:HB2	1:GB:633:LEU:HD21	1.94	0.50
1:IB:288:MET:HG3	1:IB:293:LYS:C	2.32	0.50
1:JB:423:VAL:HG21	1:JB:452:ARG:HD2	1.93	0.50
1:LB:288:MET:HG3	1:LB:293:LYS:C	2.32	0.50
1:LB:327:SER:H	1:LB:330:GLN:HB2	1.76	0.50
1:MB:652:ASP:HA	1:MB:655:GLN:CB	2.42	0.50
1:NB:92:LEU:O	1:NB:94:GLN:HG2	2.11	0.50
1:OB:196:TRP:HA	1:OB:263:VAL:HG21	1.93	0.50
1:OB:288:MET:HG3	1:OB:293:LYS:C	2.32	0.50
1:PB:652:ASP:HA	1:PB:655:GLN:CB	2.42	0.50
1:QB:65:VAL:O	1:QB:84:ARG:NH2	2.45	0.50
1:QB:92:LEU:O	1:QB:94:GLN:HG2	2.11	0.50
1:QB:682:GLN:OE1	1:QB:685:ARG:NH2	2.41	0.50
1:RB:288:MET:HG3	1:RB:293:LYS:C	2.32	0.50
1:SB:65:VAL:O	1:SB:84:ARG:NH2	2.45	0.50
1:SB:467:ALA:HB2	1:SB:518:LEU:HD11	1.93	0.50
1:TB:594:ASN:HB3	1:TB:597:ARG:HB3	1.92	0.50
1:TB:779:LEU:CD1	1:UB:770:LEU:CD1	2.87	0.50
1:UB:62:ALA:HB3	1:UB:104:LEU:HB3	1.93	0.50
1:UB:423:VAL:HG21	1:UB:452:ARG:HD2	1.93	0.50
1:UB:761:ARG:HB2	1:VB:755:THR:HG21	1.94	0.50
1:VB:81:VAL:HG11	1:VB:100:TYR:HB3	1.94	0.50
1:VB:739:GLY:C	1:WB:734:ARG:NH2	2.64	0.50
1:WB:654:LEU:O	1:WB:658:VAL:HG23	2.11	0.50
1:XB:423:VAL:HG21	1:XB:452:ARG:HD2	1.93	0.50
1:YB:62:ALA:HB3	1:YB:104:LEU:HB3	1.93	0.50
1:ZB:81:VAL:HG11	1:ZB:100:TYR:HB3	1.94	0.50
1:ZB:757:ALA:CB	1:AC:751:LEU:HG	2.41	0.50
1:AC:288:MET:HG3	1:AC:293:LYS:C	2.32	0.50
1:AC:327:SER:H	1:AC:330:GLN:HB2	1.76	0.50
1:AC:654:LEU:O	1:AC:658:VAL:HG23	2.11	0.50
1:A:287:PRO:HA	1:A:314:GLU:HG2	1.92	0.50
1:C:716:VAL:CG2	1:E:708:GLU:HG2	2.34	0.50
1:D:484:PRO:HG2	1:F:471:TYR:HE2	1.68	0.50
1:E:81:VAL:HG11	1:E:100:TYR:HB3	1.94	0.50
1:F:571:ALA:HB2	1:F:633:LEU:HD21	1.94	0.50
1:F:652:ASP:HA	1:F:655:GLN:CB	2.42	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:735:ILE:HA	1:G:738:GLU:HG3	1.91	0.50
1:G:790:VAL:HG22	1:I:785:GLN:CA	2.42	0.50
1:I:327:SER:H	1:I:330:GLN:HB2	1.76	0.50
1:I:652:ASP:HA	1:I:655:GLN:CB	2.42	0.50
1:J:81:VAL:HG11	1:J:100:TYR:HB3	1.94	0.50
1:J:221:LEU:HD21	1:J:227:LEU:HB2	1.92	0.50
1:K:15:TYR:HB3	1:K:30:VAL:HA	1.94	0.50
1:K:594:ASN:HB3	1:K:597:ARG:HB3	1.92	0.50
1:O:92:LEU:O	1:O:94:GLN:HG2	2.11	0.50
1:P:196:TRP:HA	1:P:263:VAL:HG21	1.93	0.50
1:Q:467:ALA:HB2	1:Q:518:LEU:HD11	1.93	0.50
1:Q:571:ALA:HB2	1:Q:633:LEU:HD21	1.94	0.50
1:R:81:VAL:HG11	1:R:100:TYR:HB3	1.94	0.50
1:V:81:VAL:HG11	1:V:100:TYR:HB3	1.94	0.50
1:V:652:ASP:HA	1:V:655:GLN:CB	2.42	0.50
1:X:571:ALA:HB2	1:X:633:LEU:HD21	1.94	0.50
1:Y:81:VAL:HG11	1:Y:100:TYR:HB3	1.94	0.50
1:Y:92:LEU:O	1:Y:94:GLN:HG2	2.11	0.50
1:Y:571:ALA:HB2	1:Y:633:LEU:HD21	1.94	0.50
1:Z:196:TRP:HA	1:Z:263:VAL:HG21	1.93	0.50
1:Z:571:ALA:HB2	1:Z:633:LEU:HD21	1.94	0.50
1:AA:65:VAL:O	1:AA:84:ARG:NH2	2.45	0.50
1:AA:682:GLN:OE1	1:AA:685:ARG:NH2	2.41	0.50
1:CA:196:TRP:HA	1:CA:263:VAL:HG21	1.93	0.50
1:EA:221:LEU:HD21	1:EA:227:LEU:HB2	1.92	0.50
1:EA:288:MET:HG3	1:EA:293:LYS:C	2.32	0.50
1:EA:506:LYS:O	1:EA:507:ARG:NE	2.41	0.50
1:FA:285:LEU:N	1:FA:315:ARG:O	2.41	0.50
1:FA:288:MET:HG3	1:FA:293:LYS:C	2.32	0.50
1:GA:62:ALA:HB3	1:GA:104:LEU:HB3	1.93	0.50
1:GA:652:ASP:HA	1:GA:655:GLN:CB	2.42	0.50
1:HA:182:CYS:O	1:HA:190:ARG:N	2.35	0.50
1:HA:533:ASP:OD2	1:HA:587:THR:OG1	2.17	0.50
1:IA:62:ALA:HB3	1:IA:104:LEU:HB3	1.93	0.50
1:IA:196:TRP:HA	1:IA:263:VAL:HG21	1.93	0.50
1:IA:571:ALA:HB2	1:IA:633:LEU:HD21	1.94	0.50
1:KA:62:ALA:HB3	1:KA:104:LEU:HB3	1.93	0.50
1:KA:502:ALA:HB2	1:KA:511:ARG:HB2	1.94	0.50
1:MA:196:TRP:HA	1:MA:263:VAL:HG21	1.93	0.50
1:PA:81:VAL:HG11	1:PA:100:TYR:HB3	1.94	0.50
1:QA:327:SER:H	1:QA:330:GLN:HB2	1.76	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:QA:571:ALA:HB2	1:QA:633:LEU:HD21	1.94	0.50
1:SA:65:VAL:O	1:SA:84:ARG:NH2	2.45	0.50
1:SA:81:VAL:HG11	1:SA:100:TYR:HB3	1.94	0.50
1:UA:423:VAL:HG21	1:UA:452:ARG:HD2	1.93	0.50
1:WA:682:GLN:OE1	1:WA:685:ARG:NH2	2.41	0.50
1:YA:288:MET:HG3	1:YA:293:LYS:C	2.32	0.50
1:YA:652:ASP:HA	1:YA:655:GLN:CB	2.42	0.50
1:AB:467:ALA:HB2	1:AB:518:LEU:HD11	1.93	0.50
1:CB:218:ALA:HB2	1:CB:260:VAL:HG22	1.91	0.50
1:CB:652:ASP:HA	1:CB:655:GLN:CB	2.42	0.50
1:EB:724:ALA:CB	1:FB:714:MET:SD	3.00	0.50
1:FB:62:ALA:HB3	1:FB:104:LEU:HB3	1.93	0.50
1:FB:687:ARG:NH1	1:GB:679:ARG:HD2	2.25	0.50
1:GB:196:TRP:HA	1:GB:263:VAL:HG21	1.93	0.50
1:HB:411:ASP:OD1	1:HB:411:ASP:N	2.42	0.50
1:IB:652:ASP:HA	1:IB:655:GLN:CB	2.42	0.50
1:IB:717:GLU:HB2	1:JB:707:LEU:HB3	1.93	0.50
1:JB:594:ASN:HB3	1:JB:597:ARG:HB3	1.92	0.50
1:KB:92:LEU:O	1:KB:94:GLN:HG2	2.11	0.50
1:KB:594:ASN:HB3	1:KB:597:ARG:HB3	1.92	0.50
1:KB:652:ASP:HA	1:KB:655:GLN:CB	2.42	0.50
1:LB:688:LEU:CB	1:MB:679:ARG:NH2	2.74	0.50
1:LB:728:SER:HB3	1:MB:719:THR:N	2.26	0.50
1:MB:196:TRP:HA	1:MB:263:VAL:HG21	1.93	0.50
1:NB:571:ALA:HB2	1:NB:633:LEU:HD21	1.94	0.50
1:OB:467:ALA:HB2	1:OB:518:LEU:HD11	1.93	0.50
1:OB:698:GLU:HB2	1:PB:690:ARG:HG2	1.92	0.50
1:PB:62:ALA:HB3	1:PB:104:LEU:HB3	1.93	0.50
1:PB:285:LEU:N	1:PB:315:ARG:O	2.41	0.50
1:PB:327:SER:H	1:PB:330:GLN:HB2	1.76	0.50
1:PB:654:LEU:O	1:PB:658:VAL:HG23	2.11	0.50
1:QB:62:ALA:HB3	1:QB:104:LEU:HB3	1.93	0.50
1:QB:327:SER:H	1:QB:330:GLN:HB2	1.76	0.50
1:QB:467:ALA:HB2	1:QB:518:LEU:HD11	1.93	0.50
1:RB:65:VAL:O	1:RB:84:ARG:NH2	2.45	0.50
1:SB:285:LEU:N	1:SB:315:ARG:O	2.41	0.50
1:TB:502:ALA:HB2	1:TB:511:ARG:HB2	1.94	0.50
1:UB:92:LEU:O	1:UB:94:GLN:HG2	2.11	0.50
1:UB:288:MET:HG3	1:UB:293:LYS:C	2.32	0.50
1:UB:746:LEU:CD2	1:VB:740:SER:HG	2.24	0.50
1:VB:62:ALA:HB3	1:VB:104:LEU:HB3	1.93	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:VB:285:LEU:N	1:VB:315:ARG:O	2.41	0.50
1:WB:652:ASP:HA	1:WB:655:GLN:CB	2.42	0.50
1:XB:288:MET:HG3	1:XB:293:LYS:C	2.32	0.50
1:XB:364:GLU:HB3	1:YB:353:ALA:HB3	1.92	0.50
1:YB:196:TRP:HA	1:YB:263:VAL:HG21	1.93	0.50
1:YB:598:ILE:HA	1:YB:601:MET:HG3	1.92	0.50
1:YB:682:GLN:OE1	1:YB:685:ARG:NH2	2.41	0.50
1:AC:571:ALA:HB2	1:AC:633:LEU:HD21	1.94	0.50
1:A:65:VAL:O	1:A:84:ARG:NH2	2.45	0.50
1:B:652:ASP:HA	1:B:655:GLN:CB	2.42	0.50
1:C:288:MET:HG3	1:C:293:LYS:C	2.32	0.50
1:C:787:LEU:HD21	1:E:780:GLU:HB3	1.93	0.50
1:D:52:THR:CB	1:F:85:HIS:CD2	2.93	0.50
1:D:81:VAL:HG11	1:D:100:TYR:HB3	1.94	0.50
1:D:571:ALA:HB2	1:D:633:LEU:HD21	1.94	0.50
1:E:571:ALA:HB2	1:E:633:LEU:HD21	1.94	0.50
1:G:571:ALA:HB2	1:G:633:LEU:HD21	1.94	0.50
1:G:802:LEU:HD23	1:I:799:THR:CG2	2.28	0.50
1:H:288:MET:HG3	1:H:293:LYS:C	2.32	0.50
1:I:467:ALA:HB2	1:I:518:LEU:HD11	1.93	0.50
1:J:64:PRO:O	1:J:84:ARG:N	2.28	0.50
1:K:652:ASP:HA	1:K:655:GLN:CB	2.42	0.50
1:L:62:ALA:HB3	1:L:104:LEU:HB3	1.93	0.50
1:M:62:ALA:HB3	1:M:104:LEU:HB3	1.93	0.50
1:P:92:LEU:O	1:P:94:GLN:HG2	2.11	0.50
1:P:411:ASP:OD1	1:P:411:ASP:N	2.42	0.50
1:Q:65:VAL:O	1:Q:84:ARG:NH2	2.45	0.50
1:R:65:VAL:O	1:R:84:ARG:NH2	2.45	0.50
1:S:138:MET:N	1:S:141:ASP:OD2	2.36	0.50
1:S:327:SER:H	1:S:330:GLN:HB2	1.76	0.50
1:S:467:ALA:HB2	1:S:518:LEU:HD11	1.93	0.50
1:V:221:LEU:HD21	1:V:227:LEU:HB2	1.92	0.50
1:V:502:ALA:HB2	1:V:511:ARG:HB2	1.94	0.50
1:W:196:TRP:HA	1:W:263:VAL:HG21	1.93	0.50
1:X:288:MET:HG3	1:X:293:LYS:C	2.32	0.50
1:Y:182:CYS:O	1:Y:190:ARG:N	2.35	0.50
1:AA:62:ALA:HB3	1:AA:104:LEU:HB3	1.93	0.50
1:CA:594:ASN:HB3	1:CA:597:ARG:HB3	1.92	0.50
1:DA:533:ASP:OD2	1:DA:587:THR:OG1	2.17	0.50
1:EA:15:TYR:HB3	1:EA:30:VAL:HA	1.94	0.50
1:FA:65:VAL:O	1:FA:84:ARG:NH2	2.45	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:FA:196:TRP:HA	1:FA:263:VAL:HG21	1.93	0.50
1:GA:81:VAL:HG11	1:GA:100:TYR:HB3	1.94	0.50
1:GA:654:LEU:O	1:GA:658:VAL:HG23	2.11	0.50
1:HA:65:VAL:O	1:HA:84:ARG:NH2	2.45	0.50
1:JA:62:ALA:HB3	1:JA:104:LEU:HB3	1.93	0.50
1:NA:506:LYS:O	1:NA:507:ARG:NE	2.41	0.50
1:OA:652:ASP:HA	1:OA:655:GLN:CB	2.42	0.50
1:SA:138:MET:N	1:SA:141:ASP:OD2	2.36	0.50
1:TA:287:PRO:HA	1:TA:314:GLU:HG2	1.92	0.50
1:TA:423:VAL:HG21	1:TA:452:ARG:HD2	1.93	0.50
1:UA:65:VAL:O	1:UA:84:ARG:NH2	2.45	0.50
1:UA:467:ALA:HB2	1:UA:518:LEU:HD11	1.93	0.50
1:VA:288:MET:HG3	1:VA:293:LYS:C	2.32	0.50
1:VA:652:ASP:HA	1:VA:655:GLN:CB	2.42	0.50
1:WA:287:PRO:HA	1:WA:314:GLU:HG2	1.92	0.50
1:XA:65:VAL:O	1:XA:84:ARG:NH2	2.45	0.50
1:XA:571:ALA:HB2	1:XA:633:LEU:HD21	1.94	0.50
1:YA:81:VAL:HG11	1:YA:100:TYR:HB3	1.94	0.50
1:AB:81:VAL:HG11	1:AB:100:TYR:HB3	1.94	0.50
1:AB:682:GLN:OE1	1:AB:685:ARG:NH2	2.41	0.50
1:BB:288:MET:HG3	1:BB:293:LYS:C	2.32	0.50
1:BB:571:ALA:HB2	1:BB:633:LEU:HD21	1.94	0.50
1:CB:423:VAL:HG21	1:CB:452:ARG:HD2	1.93	0.50
1:FB:654:LEU:CD2	1:GB:534:HIS:NE2	2.74	0.50
1:GB:411:ASP:OD1	1:GB:411:ASP:N	2.42	0.50
1:HB:652:ASP:HA	1:HB:655:GLN:CB	2.42	0.50
1:IB:327:SER:H	1:IB:330:GLN:HB2	1.76	0.50
1:JB:467:ALA:HB2	1:JB:518:LEU:HD11	1.93	0.50
1:MB:221:LEU:HD21	1:MB:227:LEU:HB2	1.92	0.50
1:NB:652:ASP:HA	1:NB:655:GLN:CB	2.42	0.50
1:PB:65:VAL:O	1:PB:84:ARG:NH2	2.45	0.50
1:RB:203:ALA:HB2	1:SB:192:THR:HG21	1.93	0.50
1:SB:721:ASN:N	1:TB:711:ALA:HB1	2.26	0.50
1:TB:592:HIS:ND1	1:UB:534:HIS:HD2	1.93	0.50
1:TB:654:LEU:O	1:TB:658:VAL:HG23	2.11	0.50
1:WB:15:TYR:HB3	1:WB:30:VAL:HA	1.94	0.50
1:XB:15:TYR:HB3	1:XB:30:VAL:HA	1.94	0.50
1:YB:92:LEU:O	1:YB:94:GLN:HG2	2.11	0.50
1:YB:594:ASN:HB3	1:YB:597:ARG:HB3	1.92	0.50
1:ZB:571:ALA:HB2	1:ZB:633:LEU:HD21	1.94	0.50
1:AC:92:LEU:O	1:AC:94:GLN:HG2	2.11	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AC:652:ASP:HA	1:AC:655:GLN:CB	2.42	0.50
1:A:92:LEU:O	1:A:94:GLN:HG2	2.11	0.50
1:A:654:LEU:O	1:A:658:VAL:HG23	2.11	0.50
1:A:764:LYS:O	1:C:759:LEU:CD1	2.59	0.50
1:B:598:ILE:HA	1:B:601:MET:HG3	1.92	0.50
1:C:753:ILE:CG2	1:E:745:LYS:HD2	2.41	0.50
1:D:221:LEU:HD21	1:D:227:LEU:HB2	1.92	0.50
1:D:461:ARG:HD3	1:F:473:TYR:CE2	2.45	0.50
1:D:595:SER:CB	1:F:580:ARG:HH12	2.23	0.50
1:H:502:ALA:HB2	1:H:511:ARG:HB2	1.94	0.50
1:I:502:ALA:HB2	1:I:511:ARG:HB2	1.94	0.50
1:J:15:TYR:HB3	1:J:30:VAL:HA	1.94	0.50
1:M:196:TRP:HA	1:M:263:VAL:HG21	1.93	0.50
1:M:467:ALA:HB2	1:M:518:LEU:HD11	1.93	0.50
1:M:654:LEU:O	1:M:658:VAL:HG23	2.11	0.50
1:P:138:MET:N	1:P:141:ASP:OD2	2.36	0.50
1:P:288:MET:HG3	1:P:293:LYS:C	2.32	0.50
1:P:652:ASP:HA	1:P:655:GLN:CB	2.42	0.50
1:Q:221:LEU:HD21	1:Q:227:LEU:HB2	1.92	0.50
1:S:218:ALA:HB2	1:S:260:VAL:HG22	1.91	0.50
1:T:571:ALA:HB2	1:T:633:LEU:HD21	1.94	0.50
1:W:15:TYR:HB3	1:W:30:VAL:HA	1.94	0.50
1:W:423:VAL:HG21	1:W:452:ARG:HD2	1.93	0.50
1:Z:654:LEU:O	1:Z:658:VAL:HG23	2.11	0.50
1:AA:571:ALA:HB2	1:AA:633:LEU:HD21	1.94	0.50
1:BA:196:TRP:HA	1:BA:263:VAL:HG21	1.93	0.50
1:DA:221:LEU:HD21	1:DA:227:LEU:HB2	1.92	0.50
1:EA:196:TRP:HA	1:EA:263:VAL:HG21	1.93	0.50
1:FA:62:ALA:HB3	1:FA:104:LEU:HB3	1.93	0.50
1:FA:598:ILE:HA	1:FA:601:MET:HG3	1.92	0.50
1:FA:654:LEU:O	1:FA:658:VAL:HG23	2.11	0.50
1:HA:62:ALA:HB3	1:HA:104:LEU:HB3	1.93	0.50
1:HA:423:VAL:HG21	1:HA:452:ARG:HD2	1.93	0.50
1:IA:467:ALA:HB2	1:IA:518:LEU:HD11	1.93	0.50
1:IA:717:GLU:HB2	1:KA:707:LEU:CD1	2.41	0.50
1:LA:288:MET:HG3	1:LA:293:LYS:C	2.32	0.50
1:LA:467:ALA:HB2	1:LA:518:LEU:HD11	1.93	0.50
1:OA:65:VAL:O	1:OA:84:ARG:NH2	2.45	0.50
1:QA:506:LYS:O	1:QA:507:ARG:NE	2.41	0.50
1:TA:652:ASP:HA	1:TA:655:GLN:CB	2.42	0.50
1:VA:65:VAL:O	1:VA:84:ARG:NH2	2.45	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:VA:196:TRP:HA	1:VA:263:VAL:HG21	1.93	0.50
1:VA:571:ALA:HB2	1:VA:633:LEU:HD21	1.94	0.50
1:XA:327:SER:H	1:XA:330:GLN:HB2	1.76	0.50
1:XA:467:ALA:HB2	1:XA:518:LEU:HD11	1.93	0.50
1:ZA:221:LEU:HD21	1:ZA:227:LEU:HB2	1.92	0.50
1:ZA:288:MET:HG3	1:ZA:293:LYS:C	2.32	0.50
1:ZA:594:ASN:HB3	1:ZA:597:ARG:HB3	1.92	0.50
1:AB:287:PRO:HA	1:AB:314:GLU:HG2	1.92	0.50
1:AB:299:LYS:NZ	1:AB:317:GLU:OE2	2.32	0.50
1:AB:506:LYS:O	1:AB:507:ARG:NE	2.41	0.50
1:BB:196:TRP:HA	1:BB:263:VAL:HG21	1.93	0.50
1:CB:288:MET:HG3	1:CB:293:LYS:C	2.32	0.50
1:DB:92:LEU:O	1:DB:94:GLN:HG2	2.11	0.50
1:EB:15:TYR:HB3	1:EB:30:VAL:HA	1.94	0.50
1:FB:571:ALA:HB2	1:FB:633:LEU:HD21	1.94	0.50
1:HB:92:LEU:O	1:HB:94:GLN:HG2	2.11	0.50
1:HB:288:MET:HG3	1:HB:293:LYS:C	2.32	0.50
1:HB:502:ALA:HB2	1:HB:511:ARG:HB2	1.94	0.50
1:JB:65:VAL:O	1:JB:84:ARG:NH2	2.45	0.50
1:JB:92:LEU:O	1:JB:94:GLN:HG2	2.11	0.50
1:JB:221:LEU:HD21	1:JB:227:LEU:HB2	1.92	0.50
1:LB:92:LEU:O	1:LB:94:GLN:HG2	2.11	0.50
1:LB:652:ASP:CB	1:MB:649:ARG:HH12	2.24	0.50
1:MB:654:LEU:O	1:MB:658:VAL:HG23	2.11	0.50
1:OB:94:GLN:O	1:PB:85:HIS:CD2	2.64	0.50
1:OB:571:ALA:HB2	1:OB:633:LEU:HD21	1.94	0.50
1:PB:138:MET:N	1:PB:141:ASP:OD2	2.36	0.50
1:PB:196:TRP:HA	1:PB:263:VAL:HG21	1.93	0.50
1:TB:62:ALA:HB3	1:TB:104:LEU:HB3	1.93	0.50
1:TB:65:VAL:O	1:TB:84:ARG:NH2	2.45	0.50
1:TB:327:SER:H	1:TB:330:GLN:HB2	1.76	0.50
1:UB:285:LEU:N	1:UB:315:ARG:O	2.41	0.50
1:XB:594:ASN:HB3	1:XB:597:ARG:HB3	1.92	0.50
1:ZB:502:ALA:HB2	1:ZB:511:ARG:HB2	1.94	0.50
1:A:464:HIS:CD2	1:C:469:GLN:CD	2.85	0.50
1:A:652:ASP:HA	1:A:655:GLN:CB	2.42	0.50
1:B:288:MET:HG3	1:B:293:LYS:C	2.32	0.50
1:C:196:TRP:HA	1:C:263:VAL:HG21	1.93	0.50
1:D:52:THR:CG2	1:F:85:HIS:CD2	2.94	0.50
1:D:467:ALA:HB2	1:D:518:LEU:HD11	1.93	0.50
1:E:15:TYR:HB3	1:E:30:VAL:HA	1.94	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:285:LEU:N	1:G:315:ARG:O	2.41	0.50
1:H:92:LEU:O	1:H:94:GLN:HG2	2.11	0.50
1:H:138:MET:N	1:H:141:ASP:OD2	2.36	0.50
1:I:34:THR:HG21	1:K:22:ASN:C	2.25	0.50
1:I:654:LEU:O	1:I:658:VAL:HG23	2.11	0.50
1:J:423:VAL:HG21	1:J:452:ARG:HD2	1.93	0.50
1:N:467:ALA:HB2	1:N:518:LEU:HD11	1.93	0.50
1:N:654:LEU:O	1:N:658:VAL:HG23	2.11	0.50
1:P:65:VAL:O	1:P:84:ARG:NH2	2.45	0.50
1:P:502:ALA:HB2	1:P:511:ARG:HB2	1.94	0.50
1:P:594:ASN:HB3	1:P:597:ARG:HB3	1.92	0.50
1:R:169:LYS:NZ	1:T:194:GLU:HA	2.27	0.50
1:R:502:ALA:HB2	1:R:511:ARG:HB2	1.94	0.50
1:R:571:ALA:HB2	1:R:633:LEU:HD21	1.94	0.50
1:S:65:VAL:O	1:S:84:ARG:NH2	2.45	0.50
1:S:81:VAL:HG11	1:S:100:TYR:HB3	1.94	0.50
1:T:91:ARG:NH1	1:T:94:GLN:OE1	2.38	0.50
1:V:654:LEU:O	1:V:658:VAL:HG23	2.11	0.50
1:W:652:ASP:HA	1:W:655:GLN:CB	2.42	0.50
1:X:652:ASP:HA	1:X:655:GLN:CB	2.42	0.50
1:AA:327:SER:H	1:AA:330:GLN:HB2	1.76	0.50
1:BA:571:ALA:HB2	1:BA:633:LEU:HD21	1.94	0.50
1:CA:65:VAL:O	1:CA:84:ARG:NH2	2.45	0.50
1:CA:423:VAL:HG21	1:CA:452:ARG:HD2	1.93	0.50
1:CA:652:ASP:HA	1:CA:655:GLN:CB	2.42	0.50
1:EA:81:VAL:HG11	1:EA:100:TYR:HB3	1.94	0.50
1:EA:299:LYS:NZ	1:EA:317:GLU:OE2	2.32	0.50
1:KA:327:SER:H	1:KA:330:GLN:HB2	1.76	0.50
1:LA:62:ALA:HB3	1:LA:104:LEU:HB3	1.93	0.50
1:LA:502:ALA:HB2	1:LA:511:ARG:HB2	1.94	0.50
1:MA:62:ALA:HB3	1:MA:104:LEU:HB3	1.93	0.50
1:MA:182:CYS:O	1:MA:190:ARG:N	2.35	0.50
1:MA:221:LEU:HD21	1:MA:227:LEU:HB2	1.92	0.50
1:NA:15:TYR:HB3	1:NA:30:VAL:HA	1.94	0.50
1:NA:81:VAL:HG11	1:NA:100:TYR:HB3	1.94	0.50
1:NA:327:SER:H	1:NA:330:GLN:HB2	1.76	0.50
1:NA:423:VAL:HG21	1:NA:452:ARG:HD2	1.93	0.50
1:NA:467:ALA:HB2	1:NA:518:LEU:HD11	1.93	0.50
1:PA:92:LEU:O	1:PA:94:GLN:HG2	2.11	0.50
1:QA:196:TRP:HA	1:QA:263:VAL:HG21	1.93	0.50
1:SA:221:LEU:HD21	1:SA:227:LEU:HB2	1.92	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:UA:654:LEU:O	1:UA:658:VAL:HG23	2.11	0.50
1:WA:196:TRP:HA	1:WA:263:VAL:HG21	1.93	0.50
1:WA:652:ASP:HA	1:WA:655:GLN:CB	2.42	0.50
1:XA:288:MET:HG3	1:XA:293:LYS:C	2.32	0.50
1:XA:598:ILE:HA	1:XA:601:MET:HG3	1.92	0.50
1:ZA:327:SER:H	1:ZA:330:GLN:HB2	1.76	0.50
1:ZA:652:ASP:HA	1:ZA:655:GLN:CB	2.42	0.50
1:ZA:706:LEU:HD21	1:BB:693:ILE:O	2.12	0.50
1:CB:62:ALA:HB3	1:CB:104:LEU:HB3	1.93	0.50
1:IB:65:VAL:O	1:IB:84:ARG:NH2	2.45	0.50
1:JB:62:ALA:HB3	1:JB:104:LEU:HB3	1.93	0.50
1:JB:533:ASP:OD2	1:JB:587:THR:OG1	2.17	0.50
1:KB:65:VAL:O	1:KB:84:ARG:NH2	2.45	0.50
1:KB:288:MET:HG3	1:KB:293:LYS:C	2.32	0.50
1:MB:92:LEU:O	1:MB:94:GLN:HG2	2.11	0.50
1:MB:288:MET:HG3	1:MB:293:LYS:C	2.32	0.50
1:NB:221:LEU:HD21	1:NB:227:LEU:HB2	1.92	0.50
1:OB:464:HIS:CE1	1:PB:496:THR:CB	2.94	0.50
1:OB:639:ASP:CB	1:PB:577:SER:CB	2.82	0.50
1:QB:15:TYR:HB3	1:QB:30:VAL:HA	1.94	0.50
1:SB:423:VAL:HG21	1:SB:452:ARG:HD2	1.93	0.50
1:VB:652:ASP:HA	1:VB:655:GLN:CB	2.42	0.50
1:VB:768:MET:HE2	1:WB:763:LYS:CB	2.31	0.50
1:WB:81:VAL:HG11	1:WB:100:TYR:HB3	1.94	0.50
1:XB:467:ALA:HB2	1:XB:518:LEU:HD11	1.93	0.50
1:YB:15:TYR:HB3	1:YB:30:VAL:HA	1.94	0.50
1:ZB:221:LEU:HD21	1:ZB:227:LEU:HB2	1.92	0.50
1:A:731:GLU:HG3	1:C:723:LYS:HB2	1.93	0.50
1:D:9:ARG:CG	1:F:24:ASN:H	2.07	0.50
1:D:64:PRO:O	1:D:84:ARG:N	2.28	0.50
1:E:594:ASN:HB3	1:E:597:ARG:HB3	1.92	0.50
1:G:81:VAL:HG11	1:G:100:TYR:HB3	1.94	0.50
1:G:423:VAL:HG21	1:G:452:ARG:HD2	1.93	0.50
1:H:81:VAL:HG11	1:H:100:TYR:HB3	1.94	0.50
1:I:288:MET:HG3	1:I:293:LYS:C	2.32	0.50
1:J:196:TRP:HA	1:J:263:VAL:HG21	1.93	0.50
1:K:221:LEU:HD21	1:K:227:LEU:HB2	1.92	0.50
1:L:639:ASP:HB3	1:N:577:SER:HB2	1.93	0.50
1:O:62:ALA:HB3	1:O:104:LEU:HB3	1.93	0.50
1:O:196:TRP:HA	1:O:263:VAL:HG21	1.93	0.50
1:O:502:ALA:HB2	1:O:511:ARG:HB2	1.94	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:O:682:GLN:OE1	1:O:685:ARG:NH2	2.41	0.50
1:P:81:VAL:HG11	1:P:100:TYR:HB3	1.94	0.50
1:P:327:SER:H	1:P:330:GLN:HB2	1.76	0.50
1:Q:15:TYR:HB3	1:Q:30:VAL:HA	1.94	0.50
1:Q:81:VAL:HG11	1:Q:100:TYR:HB3	1.94	0.50
1:Q:92:LEU:O	1:Q:94:GLN:HG2	2.11	0.50
1:R:423:VAL:HG21	1:R:452:ARG:HD2	1.93	0.50
1:R:652:ASP:HA	1:R:655:GLN:CB	2.42	0.50
1:V:65:VAL:O	1:V:84:ARG:NH2	2.45	0.50
1:Y:62:ALA:HB3	1:Y:104:LEU:HB3	1.93	0.50
1:Y:502:ALA:HB2	1:Y:511:ARG:HB2	1.94	0.50
1:Y:654:LEU:O	1:Y:658:VAL:HG23	2.11	0.50
1:AA:138:MET:N	1:AA:141:ASP:OD2	2.36	0.50
1:BA:65:VAL:O	1:BA:84:ARG:NH2	2.45	0.50
1:DA:65:VAL:O	1:DA:84:ARG:NH2	2.45	0.50
1:DA:571:ALA:HB2	1:DA:633:LEU:HD21	1.94	0.50
1:FA:15:TYR:HB3	1:FA:30:VAL:HA	1.94	0.50
1:GA:288:MET:HG3	1:GA:293:LYS:C	2.32	0.50
1:GA:423:VAL:HG21	1:GA:452:ARG:HD2	1.93	0.50
1:GA:467:ALA:HB2	1:GA:518:LEU:HD11	1.93	0.50
1:HA:81:VAL:HG11	1:HA:100:TYR:HB3	1.94	0.50
1:HA:92:LEU:O	1:HA:94:GLN:HG2	2.11	0.50
1:OA:62:ALA:HB3	1:OA:104:LEU:HB3	1.93	0.50
1:OA:288:MET:HG3	1:OA:293:LYS:C	2.32	0.50
1:QA:542:ALA:HB3	1:QA:639:ASP:HB2	1.94	0.50
1:RA:204:TYR:OH	1:RA:210:GLU:OE2	2.30	0.50
1:TA:92:LEU:O	1:TA:94:GLN:HG2	2.11	0.50
1:TA:594:ASN:HB3	1:TA:597:ARG:HB3	1.92	0.50
1:VA:423:VAL:HG21	1:VA:452:ARG:HD2	1.93	0.50
1:WA:92:LEU:O	1:WA:94:GLN:HG2	2.11	0.50
1:YA:15:TYR:HB3	1:YA:30:VAL:HA	1.94	0.50
1:ZA:15:TYR:HB3	1:ZA:30:VAL:HA	1.94	0.50
1:ZA:64:PRO:O	1:ZA:84:ARG:N	2.28	0.50
1:BB:221:LEU:HD21	1:BB:227:LEU:HB2	1.92	0.50
1:CB:65:VAL:O	1:CB:84:ARG:NH2	2.45	0.50
1:DB:502:ALA:HB2	1:DB:511:ARG:HB2	1.94	0.50
1:EB:221:LEU:HD21	1:EB:227:LEU:HB2	1.92	0.50
1:FB:275:THR:HG21	1:GB:296:LEU:HB3	1.93	0.50
1:FB:288:MET:HG3	1:FB:293:LYS:C	2.32	0.50
1:FB:467:ALA:HB2	1:FB:518:LEU:HD11	1.93	0.50
1:GB:467:ALA:HB2	1:GB:518:LEU:HD11	1.93	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:KB:299:LYS:NZ	1:KB:317:GLU:OE2	2.32	0.50
1:KB:542:ALA:HB3	1:KB:639:ASP:HB2	1.94	0.50
1:LB:15:TYR:HB3	1:LB:30:VAL:HA	1.94	0.50
1:NB:62:ALA:HB3	1:NB:104:LEU:HB3	1.93	0.50
1:NB:288:MET:HG3	1:NB:293:LYS:C	2.32	0.50
1:OB:81:VAL:HG11	1:OB:100:TYR:HB3	1.94	0.50
1:OB:325:VAL:HG11	1:PB:337:LEU:HD22	1.94	0.50
1:QB:502:ALA:HB2	1:QB:511:ARG:HB2	1.94	0.50
1:RB:15:TYR:HB3	1:RB:30:VAL:HA	1.94	0.50
1:RB:542:ALA:HB3	1:RB:639:ASP:HB2	1.94	0.50
1:RB:571:ALA:HB2	1:RB:633:LEU:HD21	1.94	0.50
1:VB:423:VAL:HG21	1:VB:452:ARG:HD2	1.93	0.50
1:VB:467:ALA:HB2	1:VB:518:LEU:HD11	1.93	0.50
1:YB:81:VAL:HG11	1:YB:100:TYR:HB3	1.94	0.50
1:AC:502:ALA:HB2	1:AC:511:ARG:HB2	1.94	0.50
1:A:571:ALA:HB2	1:A:633:LEU:HD21	1.94	0.50
1:A:761:ARG:CG	1:C:755:THR:HG1	2.03	0.50
1:B:285:LEU:N	1:B:315:ARG:O	2.41	0.50
1:B:654:LEU:O	1:B:658:VAL:HG23	2.11	0.50
1:C:423:VAL:HG21	1:C:452:ARG:HD2	1.93	0.50
1:C:652:ASP:HA	1:C:655:GLN:CB	2.42	0.50
1:D:9:ARG:CD	1:F:24:ASN:CG	2.75	0.50
1:D:67:ARG:NH2	1:D:71:SER:O	2.45	0.50
1:F:288:MET:HG3	1:F:293:LYS:C	2.32	0.50
1:F:542:ALA:HB3	1:F:639:ASP:HB2	1.94	0.50
1:G:288:MET:HG3	1:G:293:LYS:C	2.32	0.50
1:H:91:ARG:NH1	1:H:94:GLN:OE1	2.39	0.50
1:H:654:LEU:O	1:H:658:VAL:HG23	2.11	0.50
1:K:542:ALA:HB3	1:K:639:ASP:HB2	1.94	0.50
1:L:652:ASP:HA	1:L:655:GLN:CB	2.42	0.50
1:M:652:ASP:HA	1:M:655:GLN:CB	2.42	0.50
1:Q:288:MET:HG3	1:Q:293:LYS:C	2.32	0.50
1:Q:502:ALA:HB2	1:Q:511:ARG:HB2	1.94	0.50
1:S:221:LEU:HD21	1:S:227:LEU:HB2	1.92	0.50
1:S:299:LYS:NZ	1:S:317:GLU:OE2	2.32	0.50
1:T:67:ARG:NH2	1:T:71:SER:O	2.45	0.50
1:T:287:PRO:HA	1:T:314:GLU:HG2	1.92	0.50
1:V:682:GLN:OE1	1:V:685:ARG:NH2	2.41	0.50
1:W:594:ASN:HB3	1:W:597:ARG:HB3	1.92	0.50
1:X:15:TYR:HB3	1:X:30:VAL:HA	1.94	0.50
1:X:542:ALA:HB3	1:X:639:ASP:HB2	1.94	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:X:682:GLN:OE1	1:X:685:ARG:NH2	2.41	0.50
1:Y:423:VAL:HG21	1:Y:452:ARG:HD2	1.93	0.50
1:Y:533:ASP:OD2	1:Y:587:THR:OG1	2.17	0.50
1:AA:654:LEU:O	1:AA:658:VAL:HG23	2.11	0.50
1:BA:327:SER:H	1:BA:330:GLN:HB2	1.76	0.50
1:BA:423:VAL:HG21	1:BA:452:ARG:HD2	1.93	0.50
1:CA:62:ALA:HB3	1:CA:104:LEU:HB3	1.93	0.50
1:CA:502:ALA:HB2	1:CA:511:ARG:HB2	1.94	0.50
1:DA:81:VAL:HG11	1:DA:100:TYR:HB3	1.94	0.50
1:DA:92:LEU:O	1:DA:94:GLN:HG2	2.11	0.50
1:EA:67:ARG:NH2	1:EA:71:SER:O	2.45	0.50
1:EA:423:VAL:HG21	1:EA:452:ARG:HD2	1.93	0.50
1:GA:327:SER:H	1:GA:330:GLN:HB2	1.76	0.50
1:GA:382:LEU:HD13	1:GA:387:GLY:HA2	1.94	0.50
1:HA:382:LEU:HD13	1:HA:387:GLY:HA2	1.94	0.50
1:IA:288:MET:HG3	1:IA:293:LYS:C	2.32	0.50
1:IA:382:LEU:HD13	1:IA:387:GLY:HA2	1.94	0.50
1:JA:65:VAL:O	1:JA:84:ARG:NH2	2.45	0.50
1:JA:542:ALA:HB3	1:JA:639:ASP:HB2	1.94	0.50
1:KA:81:VAL:HG11	1:KA:100:TYR:HB3	1.94	0.50
1:KA:652:ASP:HA	1:KA:655:GLN:CB	2.42	0.50
1:LA:571:ALA:HB2	1:LA:633:LEU:HD21	1.94	0.50
1:MA:652:ASP:HA	1:MA:655:GLN:CB	2.42	0.50
1:NA:594:ASN:HB3	1:NA:597:ARG:HB3	1.92	0.50
1:NA:654:LEU:O	1:NA:658:VAL:HG23	2.11	0.50
1:OA:411:ASP:OD1	1:OA:411:ASP:N	2.42	0.50
1:RA:542:ALA:HB3	1:RA:639:ASP:HB2	1.94	0.50
1:SA:92:LEU:O	1:SA:94:GLN:HG2	2.11	0.50
1:VA:382:LEU:HD13	1:VA:387:GLY:HA2	1.94	0.50
1:WA:62:ALA:HB3	1:WA:104:LEU:HB3	1.93	0.50
1:WA:423:VAL:HG21	1:WA:452:ARG:HD2	1.93	0.50
1:XA:62:ALA:HB3	1:XA:104:LEU:HB3	1.93	0.50
1:YA:423:VAL:HG21	1:YA:452:ARG:HD2	1.93	0.50
1:AB:62:ALA:HB3	1:AB:104:LEU:HB3	1.93	0.50
1:AB:652:ASP:HA	1:AB:655:GLN:CB	2.42	0.50
1:BB:81:VAL:HG11	1:BB:100:TYR:HB3	1.94	0.50
1:BB:502:ALA:HB2	1:BB:511:ARG:HB2	1.94	0.50
1:BB:506:LYS:O	1:BB:507:ARG:NE	2.41	0.50
1:DB:62:ALA:HB3	1:DB:104:LEU:HB3	1.93	0.50
1:DB:327:SER:H	1:DB:330:GLN:HB2	1.76	0.50
1:DB:724:ALA:HB2	1:EB:714:MET:SD	2.49	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:EB:81:VAL:HG11	1:EB:100:TYR:HB3	1.94	0.50
1:FB:196:TRP:HA	1:FB:263:VAL:HG21	1.93	0.50
1:FB:423:VAL:HG21	1:FB:452:ARG:HD2	1.93	0.50
1:FB:652:ASP:HA	1:FB:655:GLN:CB	2.42	0.50
1:KB:285:LEU:N	1:KB:315:ARG:O	2.41	0.50
1:LB:464:HIS:CD2	1:MB:469:GLN:CG	2.95	0.50
1:MB:81:VAL:HG11	1:MB:100:TYR:HB3	1.94	0.50
1:NB:67:ARG:NH2	1:NB:71:SER:O	2.45	0.50
1:OB:65:VAL:O	1:OB:84:ARG:NH2	2.45	0.50
1:PB:91:ARG:NH1	1:PB:94:GLN:OE1	2.39	0.50
1:QB:652:ASP:HA	1:QB:655:GLN:CB	2.42	0.50
1:TB:411:ASP:OD1	1:TB:411:ASP:N	2.42	0.50
1:TB:467:ALA:HB2	1:TB:518:LEU:HD11	1.93	0.50
1:TB:542:ALA:HB3	1:TB:639:ASP:HB2	1.94	0.50
1:TB:571:ALA:HB2	1:TB:633:LEU:HD21	1.94	0.50
1:VB:65:VAL:O	1:VB:84:ARG:NH2	2.45	0.50
1:WB:288:MET:HG3	1:WB:293:LYS:C	2.32	0.50
1:WB:327:SER:H	1:WB:330:GLN:HB2	1.76	0.50
1:ZB:196:TRP:HA	1:ZB:263:VAL:HG21	1.93	0.50
1:ZB:768:MET:CE	1:AC:762:VAL:HG23	2.22	0.50
1:A:652:ASP:HA	1:A:655:GLN:HB2	1.94	0.49
1:A:702:ALA:CB	1:C:693:ILE:HG22	2.40	0.49
1:A:746:LEU:HB3	1:C:741:VAL:HG23	1.94	0.49
1:A:768:MET:CE	1:C:763:LYS:H	2.25	0.49
1:B:234:ASN:ND2	1:AC:171:ASN:ND2	2.60	0.49
1:C:92:LEU:O	1:C:94:GLN:HG2	2.12	0.49
1:C:640:VAL:HG13	1:E:580:ARG:NH2	2.27	0.49
1:C:765:VAL:CG1	1:E:759:LEU:HD13	2.40	0.49
1:C:790:VAL:HG21	1:E:781:VAL:CA	2.41	0.49
1:D:257:GLU:HB2	1:F:244:ARG:CZ	2.42	0.49
1:D:382:LEU:HD13	1:D:387:GLY:HA2	1.94	0.49
1:D:542:ALA:HB3	1:D:639:ASP:HB2	1.94	0.49
1:D:655:GLN:CG	1:F:647:ASP:OD2	2.60	0.49
1:E:288:MET:HG3	1:E:293:LYS:C	2.32	0.49
1:E:327:SER:H	1:E:330:GLN:HB2	1.76	0.49
1:E:382:LEU:HD13	1:E:387:GLY:HA2	1.94	0.49
1:F:62:ALA:HB3	1:F:104:LEU:HB3	1.93	0.49
1:F:467:ALA:HB2	1:F:518:LEU:HD11	1.93	0.49
1:H:62:ALA:HB3	1:H:104:LEU:HB3	1.93	0.49
1:I:81:VAL:HG11	1:I:100:TYR:HB3	1.94	0.49
1:I:423:VAL:HG21	1:I:452:ARG:HD2	1.93	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:91:ARG:NH1	1:J:94:GLN:OE1	2.39	0.49
1:J:594:ASN:HB3	1:J:597:ARG:HB3	1.92	0.49
1:L:423:VAL:HG21	1:L:452:ARG:HD2	1.93	0.49
1:M:285:LEU:N	1:M:315:ARG:O	2.41	0.49
1:N:65:VAL:O	1:N:84:ARG:NH2	2.45	0.49
1:N:92:LEU:O	1:N:94:GLN:HG2	2.11	0.49
1:O:652:ASP:HA	1:O:655:GLN:CB	2.42	0.49
1:O:652:ASP:HA	1:O:655:GLN:HB2	1.95	0.49
1:Q:652:ASP:HA	1:Q:655:GLN:CB	2.42	0.49
1:Q:652:ASP:HA	1:Q:655:GLN:HB2	1.94	0.49
1:R:279:ARG:HH22	1:T:299:LYS:NZ	2.07	0.49
1:R:654:LEU:O	1:R:658:VAL:HG23	2.11	0.49
1:S:288:MET:HG3	1:S:293:LYS:C	2.32	0.49
1:T:221:LEU:HD21	1:T:227:LEU:HB2	1.92	0.49
1:V:15:TYR:HB3	1:V:30:VAL:HA	1.94	0.49
1:V:571:ALA:HB2	1:V:633:LEU:HD21	1.94	0.49
1:W:709:LEU:HA	1:W:712:MET:HG3	1.94	0.49
1:Y:288:MET:HG3	1:Y:293:LYS:C	2.32	0.49
1:Z:91:ARG:NH1	1:Z:94:GLN:OE1	2.39	0.49
1:Z:467:ALA:HB2	1:Z:518:LEU:HD11	1.93	0.49
1:AA:92:LEU:O	1:AA:94:GLN:HG2	2.11	0.49
1:AA:288:MET:HG3	1:AA:293:LYS:C	2.32	0.49
1:BA:502:ALA:HB2	1:BA:511:ARG:HB2	1.94	0.49
1:CA:288:MET:HG3	1:CA:293:LYS:C	2.32	0.49
1:EA:65:VAL:O	1:EA:84:ARG:NH2	2.45	0.49
1:EA:502:ALA:HB2	1:EA:511:ARG:HB2	1.94	0.49
1:FA:571:ALA:HB2	1:FA:633:LEU:HD21	1.94	0.49
1:GA:91:ARG:NH1	1:GA:94:GLN:OE1	2.39	0.49
1:HA:654:LEU:O	1:HA:658:VAL:HG23	2.11	0.49
1:IA:652:ASP:HA	1:IA:655:GLN:CB	2.42	0.49
1:KA:138:MET:SD	1:KA:139:ALA:N	2.85	0.49
1:MA:65:VAL:O	1:MA:84:ARG:NH2	2.45	0.49
1:MA:81:VAL:HG11	1:MA:100:TYR:HB3	1.94	0.49
1:NA:67:ARG:NH2	1:NA:71:SER:O	2.45	0.49
1:PA:15:TYR:HB3	1:PA:30:VAL:HA	1.94	0.49
1:PA:67:ARG:NH2	1:PA:71:SER:O	2.45	0.49
1:PA:327:SER:H	1:PA:330:GLN:HB2	1.76	0.49
1:PA:571:ALA:HB2	1:PA:633:LEU:HD21	1.94	0.49
1:SA:196:TRP:HA	1:SA:263:VAL:HG21	1.93	0.49
1:SA:654:LEU:O	1:SA:658:VAL:HG23	2.11	0.49
1:TA:502:ALA:HB2	1:TA:511:ARG:HB2	1.94	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:VA:15:TYR:HB3	1:VA:30:VAL:HA	1.94	0.49
1:VA:62:ALA:HB3	1:VA:104:LEU:HB3	1.93	0.49
1:VA:542:ALA:HB3	1:VA:639:ASP:HB2	1.94	0.49
1:WA:65:VAL:O	1:WA:84:ARG:NH2	2.45	0.49
1:XA:138:MET:N	1:XA:141:ASP:OD2	2.36	0.49
1:XA:652:ASP:HA	1:XA:655:GLN:CB	2.42	0.49
1:YA:654:LEU:O	1:YA:658:VAL:HG23	2.11	0.49
1:ZA:467:ALA:HB2	1:ZA:518:LEU:HD11	1.93	0.49
1:AB:138:MET:SD	1:AB:139:ALA:N	2.85	0.49
1:AB:382:LEU:HD13	1:AB:387:GLY:HA2	1.94	0.49
1:AB:594:ASN:HB3	1:AB:597:ARG:HB3	1.92	0.49
1:BB:467:ALA:HB2	1:BB:518:LEU:HD11	1.93	0.49
1:CB:182:CYS:O	1:CB:190:ARG:N	2.35	0.49
1:DB:65:VAL:O	1:DB:84:ARG:NH2	2.45	0.49
1:DB:196:TRP:HA	1:DB:263:VAL:HG21	1.93	0.49
1:DB:542:ALA:HB3	1:DB:639:ASP:HB2	1.94	0.49
1:EB:542:ALA:HB3	1:EB:639:ASP:HB2	1.94	0.49
1:FB:382:LEU:HD13	1:FB:387:GLY:HA2	1.94	0.49
1:GB:62:ALA:HB3	1:GB:104:LEU:HB3	1.93	0.49
1:GB:81:VAL:HG11	1:GB:100:TYR:HB3	1.94	0.49
1:GB:327:SER:H	1:GB:330:GLN:HB2	1.76	0.49
1:GB:382:LEU:HD13	1:GB:387:GLY:HA2	1.94	0.49
1:IB:15:TYR:HB3	1:IB:30:VAL:HA	1.94	0.49
1:JB:15:TYR:HB3	1:JB:30:VAL:HA	1.94	0.49
1:KB:15:TYR:HB3	1:KB:30:VAL:HA	1.94	0.49
1:KB:327:SER:H	1:KB:330:GLN:HB2	1.76	0.49
1:LB:81:VAL:HG11	1:LB:100:TYR:HB3	1.94	0.49
1:LB:484:PRO:O	1:MB:473:TYR:CE1	2.61	0.49
1:LB:688:LEU:CB	1:MB:679:ARG:HH22	2.24	0.49
1:LB:688:LEU:HB2	1:MB:679:ARG:NH1	2.27	0.49
1:MB:15:TYR:HB3	1:MB:30:VAL:HA	1.94	0.49
1:NB:65:VAL:O	1:NB:84:ARG:NH2	2.45	0.49
1:OB:382:LEU:HD13	1:OB:387:GLY:HA2	1.94	0.49
1:OB:502:ALA:HB2	1:OB:511:ARG:HB2	1.94	0.49
1:OB:680:LEU:HB3	1:PB:675:HIS:ND1	2.22	0.49
1:QB:67:ARG:NH2	1:QB:71:SER:O	2.45	0.49
1:RB:138:MET:N	1:RB:141:ASP:OD2	2.36	0.49
1:RB:682:GLN:OE1	1:RB:685:ARG:NH2	2.41	0.49
1:TB:288:MET:HG3	1:TB:293:LYS:C	2.32	0.49
1:UB:382:LEU:HD13	1:UB:387:GLY:HA2	1.94	0.49
1:WB:594:ASN:HB3	1:WB:597:ARG:HB3	1.92	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:WB:735:ILE:HG22	1:XB:730:ALA:HB2	1.94	0.49
1:XB:502:ALA:HB2	1:XB:511:ARG:HB2	1.94	0.49
1:XB:654:LEU:HD13	1:YB:534:HIS:NE2	2.27	0.49
1:YB:288:MET:HG3	1:YB:293:LYS:C	2.32	0.49
1:YB:571:ALA:HB2	1:YB:633:LEU:HD21	1.94	0.49
1:ZB:652:ASP:HA	1:ZB:655:GLN:CB	2.42	0.49
1:ZB:735:ILE:HG22	1:AC:726:ALA:C	2.26	0.49
1:AC:196:TRP:HA	1:AC:263:VAL:HG21	1.93	0.49
1:B:486:LEU:CA	1:D:476:LYS:NZ	2.74	0.49
1:C:81:VAL:HG11	1:C:100:TYR:HB3	1.94	0.49
1:C:138:MET:SD	1:C:139:ALA:N	2.85	0.49
1:D:203:ALA:N	1:F:191:VAL:CG1	2.75	0.49
1:D:703:ARG:NH2	1:F:693:ILE:HD11	2.27	0.49
1:E:250:LEU:HG	1:E:312:PRO:HD3	1.95	0.49
1:E:287:PRO:HA	1:E:314:GLU:HG2	1.92	0.49
1:G:542:ALA:HB3	1:G:639:ASP:HB2	1.94	0.49
1:H:138:MET:SD	1:H:139:ALA:N	2.85	0.49
1:H:467:ALA:HB2	1:H:518:LEU:HD11	1.93	0.49
1:H:571:ALA:HB2	1:H:633:LEU:HD21	1.94	0.49
1:I:15:TYR:HB3	1:I:30:VAL:HA	1.94	0.49
1:J:62:ALA:HB3	1:J:104:LEU:HB3	1.93	0.49
1:J:327:SER:H	1:J:330:GLN:HB2	1.76	0.49
1:J:522:PHE:CD2	1:L:573:LYS:HE2	2.47	0.49
1:L:65:VAL:O	1:L:84:ARG:NH2	2.45	0.49
1:N:67:ARG:NH2	1:N:71:SER:O	2.45	0.49
1:N:138:MET:SD	1:N:139:ALA:N	2.86	0.49
1:O:288:MET:HG3	1:O:293:LYS:C	2.32	0.49
1:P:423:VAL:HG21	1:P:452:ARG:HD2	1.93	0.49
1:P:652:ASP:HA	1:P:655:GLN:HB2	1.95	0.49
1:Q:67:ARG:NH2	1:Q:71:SER:O	2.45	0.49
1:R:15:TYR:HB3	1:R:30:VAL:HA	1.94	0.49
1:S:382:LEU:HD13	1:S:387:GLY:HA2	1.94	0.49
1:T:17:HIS:NE2	1:T:99:LEU:O	2.33	0.49
1:T:62:ALA:HB3	1:T:104:LEU:HB3	1.93	0.49
1:V:423:VAL:HG21	1:V:452:ARG:HD2	1.93	0.49
1:V:542:ALA:HB3	1:V:639:ASP:HB2	1.94	0.49
1:Y:196:TRP:HA	1:Y:263:VAL:HG21	1.93	0.49
1:Y:467:ALA:HB2	1:Y:518:LEU:HD11	1.93	0.49
1:Y:542:ALA:HB3	1:Y:639:ASP:HB2	1.94	0.49
1:Y:652:ASP:HA	1:Y:655:GLN:HB2	1.95	0.49
1:Z:652:ASP:HA	1:Z:655:GLN:HB2	1.95	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:67:ARG:NH2	1:AA:71:SER:O	2.45	0.49
1:BA:67:ARG:NH2	1:BA:71:SER:O	2.45	0.49
1:BA:250:LEU:HG	1:BA:312:PRO:HD3	1.94	0.49
1:BA:288:MET:HG3	1:BA:293:LYS:C	2.32	0.49
1:DA:423:VAL:HG21	1:DA:452:ARG:HD2	1.93	0.49
1:EA:542:ALA:HB3	1:EA:639:ASP:HB2	1.94	0.49
1:EA:652:ASP:HA	1:EA:655:GLN:CB	2.42	0.49
1:FA:138:MET:SD	1:FA:139:ALA:N	2.85	0.49
1:GA:652:ASP:HA	1:GA:655:GLN:HB2	1.94	0.49
1:IA:652:ASP:HA	1:IA:655:GLN:HB2	1.94	0.49
1:JA:81:VAL:HG11	1:JA:100:TYR:HB3	1.94	0.49
1:JA:196:TRP:HA	1:JA:263:VAL:HG21	1.93	0.49
1:LA:67:ARG:NH2	1:LA:71:SER:O	2.45	0.49
1:LA:709:LEU:HA	1:LA:712:MET:HG3	1.94	0.49
1:MA:250:LEU:HG	1:MA:312:PRO:HD3	1.95	0.49
1:NA:250:LEU:HG	1:NA:312:PRO:HD3	1.95	0.49
1:PA:423:VAL:HG21	1:PA:452:ARG:HD2	1.93	0.49
1:PA:467:ALA:HB2	1:PA:518:LEU:HD11	1.93	0.49
1:PA:652:ASP:HA	1:PA:655:GLN:CB	2.42	0.49
1:TA:65:VAL:O	1:TA:84:ARG:NH2	2.45	0.49
1:UA:196:TRP:HA	1:UA:263:VAL:HG21	1.93	0.49
1:UA:652:ASP:HA	1:UA:655:GLN:CB	2.42	0.49
1:VA:138:MET:SD	1:VA:139:ALA:N	2.85	0.49
1:WA:91:ARG:NH1	1:WA:94:GLN:OE1	2.39	0.49
1:XA:138:MET:SD	1:XA:139:ALA:N	2.85	0.49
1:XA:382:LEU:HD13	1:XA:387:GLY:HA2	1.94	0.49
1:AB:542:ALA:HB3	1:AB:639:ASP:HB2	1.94	0.49
1:BB:423:VAL:HG21	1:BB:452:ARG:HD2	1.93	0.49
1:BB:652:ASP:HA	1:BB:655:GLN:CB	2.42	0.49
1:BB:673:ALA:CB	1:CB:664:ILE:HD13	2.42	0.49
1:CB:196:TRP:HA	1:CB:263:VAL:HG21	1.93	0.49
1:CB:221:LEU:HD21	1:CB:227:LEU:HB2	1.92	0.49
1:CB:652:ASP:HA	1:CB:655:GLN:HB2	1.94	0.49
1:DB:717:GLU:HB2	1:EB:707:LEU:HD12	1.91	0.49
1:EB:423:VAL:HG21	1:EB:452:ARG:HD2	1.93	0.49
1:EB:502:ALA:HB2	1:EB:511:ARG:HB2	1.94	0.49
1:IB:62:ALA:HB3	1:IB:104:LEU:HB3	1.93	0.49
1:JB:81:VAL:HG11	1:JB:100:TYR:HB3	1.94	0.49
1:KB:250:LEU:HG	1:KB:312:PRO:HD3	1.94	0.49
1:LB:62:ALA:HB3	1:LB:104:LEU:HB3	1.93	0.49
1:LB:65:VAL:O	1:LB:84:ARG:NH2	2.45	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:LB:687:ARG:NH1	1:MB:679:ARG:CZ	2.76	0.49
1:LB:768:MET:SD	1:MB:759:LEU:HD11	2.52	0.49
1:MB:67:ARG:NH2	1:MB:71:SER:O	2.45	0.49
1:MB:138:MET:SD	1:MB:139:ALA:N	2.85	0.49
1:NB:250:LEU:HG	1:NB:312:PRO:HD3	1.95	0.49
1:OB:285:LEU:N	1:OB:315:ARG:O	2.41	0.49
1:PB:542:ALA:HB3	1:PB:639:ASP:HB2	1.94	0.49
1:QB:571:ALA:HB2	1:QB:633:LEU:HD21	1.94	0.49
1:RB:299:LYS:NZ	1:RB:317:GLU:OE2	2.32	0.49
1:SB:196:TRP:HA	1:SB:263:VAL:HG21	1.93	0.49
1:UB:65:VAL:O	1:UB:84:ARG:NH2	2.45	0.49
1:UB:81:VAL:HG11	1:UB:100:TYR:HB3	1.94	0.49
1:XB:571:ALA:HB2	1:XB:633:LEU:HD21	1.94	0.49
1:XB:652:ASP:HA	1:XB:655:GLN:CB	2.42	0.49
1:ZB:288:MET:HG3	1:ZB:293:LYS:C	2.32	0.49
1:AC:65:VAL:O	1:AC:84:ARG:NH2	2.45	0.49
1:AC:682:GLN:OE1	1:AC:685:ARG:NH2	2.41	0.49
1:A:67:ARG:NH2	1:A:71:SER:O	2.45	0.49
1:A:204:TYR:OH	1:A:210:GLU:OE2	2.30	0.49
1:A:718:SER:CB	1:NB:728:SER:HB3	2.43	0.49
1:C:15:TYR:HB3	1:C:30:VAL:HA	1.94	0.49
1:C:467:ALA:HB2	1:C:518:LEU:HD11	1.93	0.49
1:D:65:VAL:O	1:D:84:ARG:NH2	2.45	0.49
1:D:114:VAL:HG22	1:F:138:MET:HE1	1.93	0.49
1:D:652:ASP:HA	1:D:655:GLN:HB2	1.94	0.49
1:E:91:ARG:NH1	1:E:94:GLN:OE1	2.39	0.49
1:E:542:ALA:HB3	1:E:639:ASP:HB2	1.94	0.49
1:F:67:ARG:NH2	1:F:71:SER:O	2.45	0.49
1:G:382:LEU:HD13	1:G:387:GLY:HA2	1.94	0.49
1:G:652:ASP:HA	1:G:655:GLN:HB2	1.94	0.49
1:H:15:TYR:HB3	1:H:30:VAL:HA	1.94	0.49
1:I:52:THR:HG21	1:K:85:HIS:CD2	2.47	0.49
1:I:67:ARG:NH2	1:I:71:SER:O	2.45	0.49
1:K:67:ARG:NH2	1:K:71:SER:O	2.45	0.49
1:K:250:LEU:HG	1:K:312:PRO:HD3	1.94	0.49
1:K:706:LEU:HD21	1:M:693:ILE:HG23	1.94	0.49
1:L:15:TYR:HB3	1:L:30:VAL:HA	1.94	0.49
1:L:542:ALA:HB3	1:L:639:ASP:HB2	1.94	0.49
1:N:250:LEU:HG	1:N:312:PRO:HD3	1.94	0.49
1:N:571:ALA:HB2	1:N:633:LEU:HD21	1.94	0.49
1:O:327:SER:H	1:O:330:GLN:HB2	1.76	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:O:467:ALA:HB2	1:O:518:LEU:HD11	1.93	0.49
1:O:542:ALA:HB3	1:O:639:ASP:HB2	1.94	0.49
1:Q:62:ALA:HB3	1:Q:104:LEU:HB3	1.93	0.49
1:Q:138:MET:SD	1:Q:139:ALA:N	2.85	0.49
1:Q:196:TRP:HA	1:Q:263:VAL:HG21	1.93	0.49
1:T:652:ASP:HA	1:T:655:GLN:CB	2.42	0.49
1:T:682:GLN:OE1	1:T:685:ARG:NH2	2.41	0.49
1:V:652:ASP:HA	1:V:655:GLN:HB2	1.94	0.49
1:W:288:MET:HG3	1:W:293:LYS:C	2.32	0.49
1:X:65:VAL:O	1:X:84:ARG:NH2	2.45	0.49
1:X:81:VAL:HG11	1:X:100:TYR:HB3	1.94	0.49
1:X:196:TRP:HA	1:X:263:VAL:HG21	1.93	0.49
1:Z:65:VAL:O	1:Z:84:ARG:NH2	2.45	0.49
1:AA:221:LEU:HD21	1:AA:227:LEU:HB2	1.92	0.49
1:AA:652:ASP:HA	1:AA:655:GLN:CB	2.42	0.49
1:BA:15:TYR:HB3	1:BA:30:VAL:HA	1.94	0.49
1:BA:654:LEU:O	1:BA:658:VAL:HG23	2.11	0.49
1:CA:327:SER:H	1:CA:330:GLN:HB2	1.76	0.49
1:CA:542:ALA:HB3	1:CA:639:ASP:HB2	1.94	0.49
1:DA:196:TRP:HA	1:DA:263:VAL:HG21	1.93	0.49
1:EA:327:SER:H	1:EA:330:GLN:HB2	1.76	0.49
1:HA:204:TYR:OH	1:HA:210:GLU:OE2	2.30	0.49
1:HA:502:ALA:HB2	1:HA:511:ARG:HB2	1.94	0.49
1:IA:169:LYS:HZ2	1:KA:194:GLU:HA	1.74	0.49
1:IA:666:THR:HG22	1:KA:657:SER:CB	2.43	0.49
1:LA:138:MET:SD	1:LA:139:ALA:N	2.85	0.49
1:LA:542:ALA:HB3	1:LA:639:ASP:HB2	1.94	0.49
1:NA:138:MET:SD	1:NA:139:ALA:N	2.85	0.49
1:NA:196:TRP:HA	1:NA:263:VAL:HG21	1.93	0.49
1:NA:204:TYR:OH	1:NA:210:GLU:OE2	2.30	0.49
1:NA:652:ASP:HA	1:NA:655:GLN:CB	2.42	0.49
1:OA:138:MET:SD	1:OA:139:ALA:N	2.86	0.49
1:OA:542:ALA:HB3	1:OA:639:ASP:HB2	1.94	0.49
1:QA:652:ASP:HA	1:QA:655:GLN:CB	2.42	0.49
1:QA:652:ASP:HA	1:QA:655:GLN:HB2	1.95	0.49
1:TA:652:ASP:HA	1:TA:655:GLN:HB2	1.94	0.49
1:UA:81:VAL:HG11	1:UA:100:TYR:HB3	1.94	0.49
1:VA:81:VAL:HG11	1:VA:100:TYR:HB3	1.94	0.49
1:VA:502:ALA:HB2	1:VA:511:ARG:HB2	1.94	0.49
1:YA:67:ARG:NH2	1:YA:71:SER:O	2.45	0.49
1:YA:382:LEU:HD13	1:YA:387:GLY:HA2	1.94	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:ZA:542:ALA:HB3	1:ZA:639:ASP:HB2	1.94	0.49
1:ZA:728:SER:HB3	1:BB:718:SER:HB2	1.94	0.49
1:BB:15:TYR:HB3	1:BB:30:VAL:HA	1.94	0.49
1:BB:652:ASP:HA	1:BB:655:GLN:HB2	1.95	0.49
1:CB:327:SER:H	1:CB:330:GLN:HB2	1.76	0.49
1:DB:652:ASP:HA	1:DB:655:GLN:CB	2.42	0.49
1:EB:65:VAL:O	1:EB:84:ARG:NH2	2.45	0.49
1:EB:652:ASP:HA	1:EB:655:GLN:CB	2.42	0.49
1:GB:682:GLN:OE1	1:GB:685:ARG:NH2	2.41	0.49
1:HB:67:ARG:NH2	1:HB:71:SER:O	2.45	0.49
1:JB:138:MET:SD	1:JB:139:ALA:N	2.86	0.49
1:JB:196:TRP:HA	1:JB:263:VAL:HG21	1.93	0.49
1:LB:502:ALA:HB2	1:LB:511:ARG:HB2	1.94	0.49
1:LB:652:ASP:HA	1:LB:655:GLN:HB2	1.94	0.49
1:LB:681:GLU:CA	1:MB:675:HIS:NE2	2.75	0.49
1:MB:467:ALA:HB2	1:MB:518:LEU:HD11	1.93	0.49
1:MB:502:ALA:HB2	1:MB:511:ARG:HB2	1.94	0.49
1:OB:15:TYR:HB3	1:OB:30:VAL:HA	1.94	0.49
1:PB:81:VAL:HG11	1:PB:100:TYR:HB3	1.94	0.49
1:PB:423:VAL:HG21	1:PB:452:ARG:HD2	1.93	0.49
1:RB:67:ARG:NH2	1:RB:71:SER:O	2.45	0.49
1:RB:728:SER:HB2	1:SB:722:ALA:HB2	1.93	0.49
1:SB:62:ALA:HB3	1:SB:104:LEU:HB3	1.93	0.49
1:SB:288:MET:HG3	1:SB:293:LYS:C	2.32	0.49
1:SB:652:ASP:HA	1:SB:655:GLN:HB2	1.94	0.49
1:TB:787:LEU:HD21	1:UB:781:VAL:HG13	1.94	0.49
1:VB:221:LEU:HD21	1:VB:227:LEU:HB2	1.92	0.49
1:VB:288:MET:HG3	1:VB:293:LYS:C	2.32	0.49
1:VB:382:LEU:HD13	1:VB:387:GLY:HA2	1.94	0.49
1:WB:204:TYR:OH	1:WB:210:GLU:OE2	2.30	0.49
1:WB:423:VAL:HG21	1:WB:452:ARG:HD2	1.93	0.49
1:WB:542:ALA:HB3	1:WB:639:ASP:HB2	1.94	0.49
1:WB:652:ASP:HA	1:WB:655:GLN:HB2	1.94	0.49
1:XB:62:ALA:HB3	1:XB:104:LEU:HB3	1.93	0.49
1:YB:138:MET:SD	1:YB:139:ALA:N	2.85	0.49
1:ZB:65:VAL:O	1:ZB:84:ARG:NH2	2.45	0.49
1:ZB:92:LEU:O	1:ZB:94:GLN:HG2	2.11	0.49
1:AC:67:ARG:NH2	1:AC:71:SER:O	2.45	0.49
1:A:91:ARG:NH1	1:A:94:GLN:OE1	2.39	0.49
1:A:196:TRP:HA	1:A:263:VAL:HG21	1.93	0.49
1:A:467:ALA:HB2	1:A:518:LEU:HD11	1.93	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:502:ALA:HB2	1:A:511:ARG:HB2	1.94	0.49
1:A:542:ALA:HB3	1:A:639:ASP:HB2	1.94	0.49
1:A:712:MET:HE3	1:C:704:LYS:CD	2.41	0.49
1:B:184:ASP:HB3	1:B:190:ARG:HG3	1.95	0.49
1:B:250:LEU:HG	1:B:312:PRO:HD3	1.95	0.49
1:C:768:MET:SD	1:E:759:LEU:HD12	2.43	0.49
1:C:787:LEU:HD21	1:E:780:GLU:CB	2.42	0.49
1:D:12:PRO:HB3	1:F:80:GLN:O	2.12	0.49
1:D:32:PRO:C	1:F:78:THR:CG2	2.81	0.49
1:D:325:VAL:CG1	1:F:354:GLY:N	2.76	0.49
1:D:502:ALA:HB2	1:D:511:ARG:HB2	1.94	0.49
1:E:652:ASP:HA	1:E:655:GLN:CB	2.42	0.49
1:E:761:ARG:HB2	1:G:752:ALA:HA	1.92	0.49
1:F:709:LEU:HA	1:F:712:MET:HG3	1.95	0.49
1:G:204:TYR:OH	1:G:210:GLU:OE2	2.30	0.49
1:I:62:ALA:HB3	1:I:104:LEU:HB3	1.93	0.49
1:J:652:ASP:HA	1:J:655:GLN:HB2	1.94	0.49
1:K:184:ASP:HB3	1:K:190:ARG:HG3	1.95	0.49
1:L:502:ALA:HB2	1:L:511:ARG:HB2	1.94	0.49
1:M:204:TYR:OH	1:M:210:GLU:OE2	2.30	0.49
1:N:196:TRP:HA	1:N:263:VAL:HG21	1.93	0.49
1:N:285:LEU:N	1:N:315:ARG:O	2.41	0.49
1:N:382:LEU:HD13	1:N:387:GLY:HA2	1.94	0.49
1:O:15:TYR:HB3	1:O:30:VAL:HA	1.94	0.49
1:O:67:ARG:NH2	1:O:71:SER:O	2.45	0.49
1:P:709:LEU:HA	1:P:712:MET:HG3	1.95	0.49
1:R:138:MET:SD	1:R:139:ALA:N	2.86	0.49
1:R:327:SER:H	1:R:330:GLN:HB2	1.76	0.49
1:R:382:LEU:HD13	1:R:387:GLY:HA2	1.94	0.49
1:S:652:ASP:HA	1:S:655:GLN:HB2	1.94	0.49
1:S:682:GLN:OE1	1:S:685:ARG:NH2	2.41	0.49
1:T:81:VAL:HG11	1:T:100:TYR:HB3	1.94	0.49
1:T:411:ASP:OD1	1:T:411:ASP:N	2.42	0.49
1:V:467:ALA:HB2	1:V:518:LEU:HD11	1.93	0.49
1:V:709:LEU:HA	1:V:712:MET:HG3	1.95	0.49
1:W:81:VAL:HG11	1:W:100:TYR:HB3	1.94	0.49
1:X:285:LEU:N	1:X:315:ARG:O	2.41	0.49
1:Y:15:TYR:HB3	1:Y:30:VAL:HA	1.94	0.49
1:Z:67:ARG:NH2	1:Z:71:SER:O	2.45	0.49
1:Z:250:LEU:HG	1:Z:312:PRO:HD3	1.95	0.49
1:Z:652:ASP:HA	1:Z:655:GLN:CB	2.42	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:81:VAL:HG11	1:AA:100:TYR:HB3	1.94	0.49
1:AA:652:ASP:HA	1:AA:655:GLN:HB2	1.95	0.49
1:BA:341:GLU:HB3	1:BA:344:GLU:HG2	1.95	0.49
1:DA:502:ALA:HB2	1:DA:511:ARG:HB2	1.94	0.49
1:FA:423:VAL:HG21	1:FA:452:ARG:HD2	1.93	0.49
1:HA:138:MET:SD	1:HA:139:ALA:N	2.86	0.49
1:IA:542:ALA:HB3	1:IA:639:ASP:HB2	1.94	0.49
1:JA:67:ARG:NH2	1:JA:71:SER:O	2.45	0.49
1:LA:196:TRP:HA	1:LA:263:VAL:HG21	1.93	0.49
1:LA:250:LEU:HG	1:LA:312:PRO:HD3	1.95	0.49
1:LA:327:SER:H	1:LA:330:GLN:HB2	1.76	0.49
1:NA:184:ASP:HB3	1:NA:190:ARG:HG3	1.95	0.49
1:OA:502:ALA:HB2	1:OA:511:ARG:HB2	1.94	0.49
1:OA:571:ALA:HB2	1:OA:633:LEU:HD21	1.94	0.49
1:PA:65:VAL:O	1:PA:84:ARG:NH2	2.45	0.49
1:PA:196:TRP:HA	1:PA:263:VAL:HG21	1.93	0.49
1:PA:411:ASP:OD1	1:PA:411:ASP:N	2.42	0.49
1:QA:62:ALA:HB3	1:QA:104:LEU:HB3	1.93	0.49
1:RA:65:VAL:O	1:RA:84:ARG:NH2	2.45	0.49
1:SA:652:ASP:HA	1:SA:655:GLN:CB	2.42	0.49
1:TA:138:MET:SD	1:TA:139:ALA:N	2.85	0.49
1:WA:15:TYR:HB3	1:WA:30:VAL:HA	1.94	0.49
1:WA:67:ARG:NH2	1:WA:71:SER:O	2.45	0.49
1:YA:62:ALA:HB3	1:YA:104:LEU:HB3	1.93	0.49
1:YA:65:VAL:O	1:YA:84:ARG:NH2	2.45	0.49
1:YA:138:MET:SD	1:YA:139:ALA:N	2.85	0.49
1:YA:221:LEU:HD21	1:YA:227:LEU:HB2	1.92	0.49
1:YA:571:ALA:HB2	1:YA:633:LEU:HD21	1.94	0.49
1:ZA:502:ALA:HB2	1:ZA:511:ARG:HB2	1.94	0.49
1:ZA:709:LEU:HA	1:ZA:712:MET:HG3	1.95	0.49
1:AB:65:VAL:O	1:AB:84:ARG:NH2	2.45	0.49
1:BB:62:ALA:HB3	1:BB:104:LEU:HB3	1.93	0.49
1:BB:285:LEU:N	1:BB:315:ARG:O	2.41	0.49
1:BB:382:LEU:HD13	1:BB:387:GLY:HA2	1.94	0.49
1:DB:15:TYR:HB3	1:DB:30:VAL:HA	1.94	0.49
1:DB:654:LEU:O	1:DB:658:VAL:HG23	2.11	0.49
1:EB:506:LYS:O	1:EB:507:ARG:NE	2.41	0.49
1:FB:652:ASP:HA	1:FB:655:GLN:HB2	1.95	0.49
1:GB:542:ALA:HB3	1:GB:639:ASP:HB2	1.94	0.49
1:HB:65:VAL:O	1:HB:84:ARG:NH2	2.45	0.49
1:JB:542:ALA:HB3	1:JB:639:ASP:HB2	1.94	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:JB:571:ALA:HB2	1:JB:633:LEU:HD21	1.94	0.49
1:KB:571:ALA:HB2	1:KB:633:LEU:HD21	1.94	0.49
1:LB:486:LEU:HB3	1:MB:473:TYR:HB3	1.95	0.49
1:MB:65:VAL:O	1:MB:84:ARG:NH2	2.45	0.49
1:NB:138:MET:SD	1:NB:139:ALA:N	2.85	0.49
1:NB:341:GLU:HB3	1:NB:344:GLU:HG2	1.95	0.49
1:OB:652:ASP:HA	1:OB:655:GLN:HB2	1.95	0.49
1:PB:709:LEU:HA	1:PB:712:MET:HG3	1.95	0.49
1:QB:250:LEU:HG	1:QB:312:PRO:HD3	1.95	0.49
1:RB:196:TRP:HA	1:RB:263:VAL:HG21	1.93	0.49
1:SB:327:SER:H	1:SB:330:GLN:HB2	1.76	0.49
1:SB:652:ASP:HA	1:SB:655:GLN:CB	2.42	0.49
1:TB:67:ARG:NH2	1:TB:71:SER:O	2.45	0.49
1:UB:184:ASP:HB3	1:UB:190:ARG:HG3	1.95	0.49
1:VB:652:ASP:HA	1:VB:655:GLN:HB2	1.94	0.49
1:WB:62:ALA:HB3	1:WB:104:LEU:HB3	1.93	0.49
1:WB:65:VAL:O	1:WB:84:ARG:NH2	2.45	0.49
1:WB:299:LYS:NZ	1:WB:317:GLU:OE2	2.32	0.49
1:WB:571:ALA:HB2	1:WB:633:LEU:HD21	1.94	0.49
1:WB:709:LEU:HA	1:WB:712:MET:HG3	1.95	0.49
1:XB:542:ALA:HB3	1:XB:639:ASP:HB2	1.94	0.49
1:XB:682:GLN:OE1	1:XB:685:ARG:NH2	2.41	0.49
1:ZB:542:ALA:HB3	1:ZB:639:ASP:HB2	1.94	0.49
1:AC:91:ARG:NH1	1:AC:94:GLN:OE1	2.39	0.49
1:AC:138:MET:SD	1:AC:139:ALA:N	2.86	0.49
1:AC:184:ASP:HB3	1:AC:190:ARG:HG3	1.95	0.49
1:A:81:VAL:HG11	1:A:100:TYR:HB3	1.94	0.49
1:A:184:ASP:HB3	1:A:190:ARG:HG3	1.95	0.49
1:A:764:LYS:O	1:C:759:LEU:HD12	2.13	0.49
1:A:790:VAL:CG2	1:C:785:GLN:HB2	2.39	0.49
1:B:81:VAL:HG11	1:B:100:TYR:HB3	1.94	0.49
1:B:652:ASP:HA	1:B:655:GLN:HB2	1.94	0.49
1:C:285:LEU:N	1:C:315:ARG:O	2.41	0.49
1:D:288:MET:HG3	1:D:293:LYS:C	2.32	0.49
1:E:341:GLU:HB3	1:E:344:GLU:HG2	1.95	0.49
1:E:467:ALA:HB2	1:E:518:LEU:HD11	1.93	0.49
1:F:196:TRP:HA	1:F:263:VAL:HG21	1.93	0.49
1:F:757:ALA:HB2	1:H:748:ALA:HB1	1.94	0.49
1:G:184:ASP:HB3	1:G:190:ARG:HG3	1.95	0.49
1:H:65:VAL:O	1:H:84:ARG:NH2	2.45	0.49
1:H:184:ASP:HB3	1:H:190:ARG:HG3	1.95	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:542:ALA:HB3	1:I:639:ASP:HB2	1.94	0.49
1:J:65:VAL:O	1:J:84:ARG:NH2	2.45	0.49
1:J:92:LEU:O	1:J:94:GLN:HG2	2.11	0.49
1:J:138:MET:SD	1:J:139:ALA:N	2.85	0.49
1:K:341:GLU:HB3	1:K:344:GLU:HG2	1.95	0.49
1:N:184:ASP:HB3	1:N:190:ARG:HG3	1.95	0.49
1:R:467:ALA:HB2	1:R:518:LEU:HD11	1.93	0.49
1:S:138:MET:SD	1:S:139:ALA:N	2.85	0.49
1:S:571:ALA:HB2	1:S:633:LEU:HD21	1.94	0.49
1:T:382:LEU:HD13	1:T:387:GLY:HA2	1.94	0.49
1:V:62:ALA:HB3	1:V:104:LEU:HB3	1.93	0.49
1:V:67:ARG:NH2	1:V:71:SER:O	2.45	0.49
1:V:382:LEU:HD13	1:V:387:GLY:HA2	1.94	0.49
1:X:652:ASP:HA	1:X:655:GLN:HB2	1.94	0.49
1:Y:67:ARG:NH2	1:Y:71:SER:O	2.45	0.49
1:Z:542:ALA:HB3	1:Z:639:ASP:HB2	1.94	0.49
1:BA:652:ASP:HA	1:BA:655:GLN:CB	2.42	0.49
1:DA:138:MET:SD	1:DA:139:ALA:N	2.85	0.49
1:FA:250:LEU:HG	1:FA:312:PRO:HD3	1.95	0.49
1:GA:65:VAL:O	1:GA:84:ARG:NH2	2.45	0.49
1:GA:571:ALA:HB2	1:GA:633:LEU:HD21	1.94	0.49
1:HA:652:ASP:HA	1:HA:655:GLN:HB2	1.94	0.49
1:IA:327:SER:H	1:IA:330:GLN:HB2	1.76	0.49
1:IA:692:LYS:HG2	1:KA:682:GLN:CD	2.33	0.49
1:JA:652:ASP:HA	1:JA:655:GLN:CB	2.42	0.49
1:JA:682:GLN:OE1	1:JA:685:ARG:NH2	2.41	0.49
1:KA:382:LEU:HD13	1:KA:387:GLY:HA2	1.94	0.49
1:MA:67:ARG:NH2	1:MA:71:SER:O	2.45	0.49
1:MA:341:GLU:HB3	1:MA:344:GLU:HG2	1.95	0.49
1:MA:571:ALA:HB2	1:MA:633:LEU:HD21	1.94	0.49
1:MA:654:LEU:O	1:MA:658:VAL:HG23	2.11	0.49
1:NA:341:GLU:HB3	1:NA:344:GLU:HG2	1.95	0.49
1:OA:533:ASP:OD2	1:OA:587:THR:OG1	2.17	0.49
1:PA:652:ASP:HA	1:PA:655:GLN:HB2	1.94	0.49
1:QA:81:VAL:HG11	1:QA:100:TYR:HB3	1.94	0.49
1:RA:571:ALA:HB2	1:RA:633:LEU:HD21	1.94	0.49
1:SA:327:SER:H	1:SA:330:GLN:HB2	1.76	0.49
1:SA:542:ALA:HB3	1:SA:639:ASP:HB2	1.94	0.49
1:TA:15:TYR:HB3	1:TA:30:VAL:HA	1.94	0.49
1:TA:196:TRP:HA	1:TA:263:VAL:HG21	1.93	0.49
1:TA:285:LEU:N	1:TA:315:ARG:O	2.41	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:UA:250:LEU:HG	1:UA:312:PRO:HD3	1.95	0.49
1:VA:341:GLU:HB3	1:VA:344:GLU:HG2	1.95	0.49
1:WA:285:LEU:N	1:WA:315:ARG:O	2.41	0.49
1:XA:542:ALA:HB3	1:XA:639:ASP:HB2	1.94	0.49
1:YA:285:LEU:N	1:YA:315:ARG:O	2.41	0.49
1:YA:542:ALA:HB3	1:YA:639:ASP:HB2	1.94	0.49
1:AB:15:TYR:HB3	1:AB:30:VAL:HA	1.94	0.49
1:AB:423:VAL:HG21	1:AB:452:ARG:HD2	1.93	0.49
1:AB:652:ASP:HA	1:AB:655:GLN:HB2	1.94	0.49
1:AB:709:LEU:HA	1:AB:712:MET:HG3	1.95	0.49
1:BB:138:MET:SD	1:BB:139:ALA:N	2.85	0.49
1:BB:184:ASP:HB3	1:BB:190:ARG:HG3	1.95	0.49
1:EB:467:ALA:HB2	1:EB:518:LEU:HD11	1.93	0.49
1:GB:502:ALA:HB2	1:GB:511:ARG:HB2	1.94	0.49
1:HB:15:TYR:HB3	1:HB:30:VAL:HA	1.94	0.49
1:HB:571:ALA:HB2	1:HB:633:LEU:HD21	1.94	0.49
1:HB:682:GLN:OE1	1:HB:685:ARG:NH2	2.41	0.49
1:IB:67:ARG:NH2	1:IB:71:SER:O	2.45	0.49
1:IB:92:LEU:O	1:IB:94:GLN:HG2	2.11	0.49
1:IB:467:ALA:HB2	1:IB:518:LEU:HD11	1.93	0.49
1:JB:654:LEU:O	1:JB:658:VAL:HG23	2.11	0.49
1:LB:571:ALA:HB2	1:LB:633:LEU:HD21	1.94	0.49
1:NB:467:ALA:HB2	1:NB:518:LEU:HD11	1.93	0.49
1:OB:138:MET:SD	1:OB:139:ALA:N	2.85	0.49
1:OB:405:THR:N	1:PB:396:GLY:CA	2.62	0.49
1:QB:91:ARG:NH1	1:QB:94:GLN:OE1	2.39	0.49
1:QB:423:VAL:HG21	1:QB:452:ARG:HD2	1.93	0.49
1:RB:279:ARG:NH2	1:SB:299:LYS:HZ2	2.07	0.49
1:RB:639:ASP:HB3	1:SB:577:SER:CB	2.42	0.49
1:RB:652:ASP:HA	1:RB:655:GLN:HB2	1.94	0.49
1:SB:91:ARG:NH1	1:SB:94:GLN:OE1	2.38	0.49
1:TB:15:TYR:HB3	1:TB:30:VAL:HA	1.94	0.49
1:TB:652:ASP:HA	1:TB:655:GLN:HB2	1.95	0.49
1:UB:138:MET:SD	1:UB:139:ALA:N	2.85	0.49
1:UB:250:LEU:HG	1:UB:312:PRO:HD3	1.95	0.49
1:UB:746:LEU:HD22	1:VB:740:SER:OG	2.12	0.49
1:VB:327:SER:H	1:VB:330:GLN:HB2	1.76	0.49
1:VB:680:LEU:CB	1:WB:675:HIS:HE1	2.25	0.49
1:XB:67:ARG:NH2	1:XB:71:SER:O	2.45	0.49
1:XB:406:TYR:HH	1:XB:412:GLU:CD	2.16	0.49
1:YB:341:GLU:HB3	1:YB:344:GLU:HG2	1.95	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:ZB:382:LEU:HD13	1:ZB:387:GLY:HA2	1.94	0.49
1:AC:467:ALA:HB2	1:AC:518:LEU:HD11	1.93	0.49
1:B:65:VAL:O	1:B:84:ARG:NH2	2.45	0.49
1:B:204:TYR:OH	1:B:210:GLU:OE2	2.30	0.49
1:B:797:GLU:CG	1:D:792:ALA:HB1	2.43	0.49
1:C:411:ASP:OD1	1:C:411:ASP:N	2.42	0.49
1:C:750:ALA:CA	1:E:741:VAL:HA	2.43	0.49
1:C:790:VAL:CG1	1:E:785:GLN:CA	2.62	0.49
1:F:138:MET:SD	1:F:139:ALA:N	2.85	0.49
1:G:138:MET:SD	1:G:139:ALA:N	2.86	0.49
1:G:709:LEU:HA	1:G:712:MET:HG3	1.95	0.49
1:H:250:LEU:HG	1:H:312:PRO:HD3	1.95	0.49
1:H:652:ASP:HA	1:H:655:GLN:CB	2.42	0.49
1:I:196:TRP:HA	1:I:263:VAL:HG21	1.93	0.49
1:I:571:ALA:HB2	1:I:633:LEU:HD21	1.94	0.49
1:I:709:LEU:HA	1:I:712:MET:HG3	1.95	0.49
1:J:502:ALA:HB2	1:J:511:ARG:HB2	1.94	0.49
1:J:542:ALA:HB3	1:J:639:ASP:HB2	1.94	0.49
1:K:196:TRP:HA	1:K:263:VAL:HG21	1.93	0.49
1:L:67:ARG:NH2	1:L:71:SER:O	2.45	0.49
1:M:652:ASP:HA	1:M:655:GLN:HB2	1.94	0.49
1:N:15:TYR:HB3	1:N:30:VAL:HA	1.94	0.49
1:N:181:GLU:HG2	1:N:191:VAL:HG12	1.95	0.49
1:O:81:VAL:HG11	1:O:100:TYR:HB3	1.94	0.49
1:O:382:LEU:HD13	1:O:387:GLY:HA2	1.94	0.49
1:P:138:MET:SD	1:P:139:ALA:N	2.86	0.49
1:P:571:ALA:HB2	1:P:633:LEU:HD21	1.94	0.49
1:P:798:MET:HE3	1:R:795:PHE:HE2	1.78	0.49
1:S:423:VAL:HG21	1:S:452:ARG:HD2	1.93	0.49
1:S:652:ASP:HA	1:S:655:GLN:CB	2.42	0.49
1:T:15:TYR:HB3	1:T:30:VAL:HA	1.94	0.49
1:W:467:ALA:HB2	1:W:518:LEU:HD11	1.93	0.49
1:Y:181:GLU:HG2	1:Y:191:VAL:HG12	1.95	0.49
1:Y:327:SER:H	1:Y:330:GLN:HB2	1.76	0.49
1:BA:709:LEU:HA	1:BA:712:MET:HG3	1.95	0.49
1:CA:91:ARG:NH1	1:CA:94:GLN:OE1	2.39	0.49
1:DA:652:ASP:HA	1:DA:655:GLN:CB	2.42	0.49
1:EA:382:LEU:HD13	1:EA:387:GLY:HA2	1.94	0.49
1:EA:571:ALA:HB2	1:EA:633:LEU:HD21	1.94	0.49
1:FA:542:ALA:HB3	1:FA:639:ASP:HB2	1.94	0.49
1:HA:184:ASP:HB3	1:HA:190:ARG:HG3	1.95	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:HA:652:ASP:HA	1:HA:655:GLN:CB	2.42	0.49
1:JA:382:LEU:HD13	1:JA:387:GLY:HA2	1.94	0.49
1:MA:184:ASP:HB3	1:MA:190:ARG:HG3	1.95	0.49
1:MA:288:MET:HG3	1:MA:293:LYS:C	2.32	0.49
1:MA:709:LEU:HA	1:MA:712:MET:HG3	1.95	0.49
1:OA:327:SER:H	1:OA:330:GLN:HB2	1.76	0.49
1:OA:691:GLN:OE1	1:QA:679:ARG:NE	2.46	0.49
1:QA:15:TYR:HB3	1:QA:30:VAL:HA	1.94	0.49
1:QA:138:MET:SD	1:QA:139:ALA:N	2.86	0.49
1:SA:138:MET:SD	1:SA:139:ALA:N	2.85	0.49
1:TA:181:GLU:HG2	1:TA:191:VAL:HG12	1.95	0.49
1:TA:327:SER:H	1:TA:330:GLN:HB2	1.76	0.49
1:TA:654:LEU:O	1:TA:658:VAL:HG23	2.11	0.49
1:UA:92:LEU:O	1:UA:94:GLN:HG2	2.11	0.49
1:UA:341:GLU:HB3	1:UA:344:GLU:HG2	1.95	0.49
1:VA:250:LEU:HG	1:VA:312:PRO:HD3	1.95	0.49
1:VA:652:ASP:HA	1:VA:655:GLN:HB2	1.94	0.49
1:WA:184:ASP:HB3	1:WA:190:ARG:HG3	1.95	0.49
1:XA:506:LYS:O	1:XA:507:ARG:NE	2.41	0.49
1:AB:184:ASP:HB3	1:AB:190:ARG:HG3	1.95	0.49
1:AB:288:MET:HG3	1:AB:293:LYS:C	2.32	0.49
1:CB:406:TYR:HH	1:CB:412:GLU:CD	2.16	0.49
1:EB:67:ARG:NH2	1:EB:71:SER:O	2.45	0.49
1:EB:382:LEU:HD13	1:EB:387:GLY:HA2	1.94	0.49
1:FB:67:ARG:NH2	1:FB:71:SER:O	2.45	0.49
1:HB:138:MET:SD	1:HB:139:ALA:N	2.86	0.49
1:IB:138:MET:SD	1:IB:139:ALA:N	2.85	0.49
1:IB:411:ASP:OD1	1:IB:411:ASP:N	2.42	0.49
1:IB:652:ASP:HA	1:IB:655:GLN:HB2	1.94	0.49
1:KB:341:GLU:HB3	1:KB:344:GLU:HG2	1.95	0.49
1:KB:652:ASP:HA	1:KB:655:GLN:HB2	1.94	0.49
1:LB:138:MET:SD	1:LB:139:ALA:N	2.86	0.49
1:LB:138:MET:N	1:LB:141:ASP:OD2	2.36	0.49
1:LB:542:ALA:HB3	1:LB:639:ASP:HB2	1.94	0.49
1:LB:687:ARG:NH1	1:MB:679:ARG:NE	2.61	0.49
1:LB:779:LEU:HD21	1:MB:770:LEU:HG	1.94	0.49
1:NB:502:ALA:HB2	1:NB:511:ARG:HB2	1.94	0.49
1:OB:542:ALA:HB3	1:OB:639:ASP:HB2	1.94	0.49
1:OB:652:ASP:HA	1:OB:655:GLN:CB	2.42	0.49
1:OB:709:LEU:HA	1:OB:712:MET:HG3	1.95	0.49
1:PB:502:ALA:HB2	1:PB:511:ARG:HB2	1.94	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:QB:341:GLU:HB3	1:QB:344:GLU:HG2	1.95	0.49
1:QB:542:ALA:HB3	1:QB:639:ASP:HB2	1.94	0.49
1:RB:382:LEU:HD13	1:RB:387:GLY:HA2	1.94	0.49
1:SB:595:SER:HB2	1:TB:580:ARG:HH12	1.77	0.49
1:SB:717:GLU:HG3	1:TB:707:LEU:HD13	1.95	0.49
1:UB:341:GLU:HB3	1:UB:344:GLU:HG2	1.95	0.49
1:VB:15:TYR:HB3	1:VB:30:VAL:HA	1.94	0.49
1:WB:502:ALA:HB2	1:WB:511:ARG:HB2	1.94	0.49
1:XB:196:TRP:HA	1:XB:263:VAL:HG21	1.93	0.49
1:YB:250:LEU:HG	1:YB:312:PRO:HD3	1.95	0.49
1:YB:652:ASP:HA	1:YB:655:GLN:CB	2.42	0.49
1:AC:652:ASP:HA	1:AC:655:GLN:HB2	1.95	0.49
1:A:154:GLN:HB2	1:A:157:VAL:HG22	1.95	0.49
1:A:250:LEU:HG	1:A:312:PRO:HD3	1.94	0.49
1:A:406:TYR:HH	1:A:412:GLU:CD	2.16	0.49
1:A:734:ARG:NH2	1:NB:743:GLN:HE21	2.07	0.49
1:B:234:ASN:ND2	1:AC:171:ASN:HD21	2.07	0.49
1:C:542:ALA:HB3	1:C:639:ASP:HB2	1.94	0.49
1:D:652:ASP:HA	1:D:655:GLN:CB	2.42	0.49
1:E:62:ALA:HB3	1:E:104:LEU:HB3	1.93	0.49
1:E:502:ALA:HB2	1:E:511:ARG:HB2	1.94	0.49
1:F:65:VAL:O	1:F:84:ARG:NH2	2.45	0.49
1:G:467:ALA:HB2	1:G:518:LEU:HD11	1.93	0.49
1:H:709:LEU:HA	1:H:712:MET:HG3	1.95	0.49
1:K:204:TYR:OH	1:K:210:GLU:OE2	2.30	0.49
1:K:502:ALA:HB2	1:K:511:ARG:HB2	1.94	0.49
1:L:81:VAL:HG11	1:L:100:TYR:HB3	1.94	0.49
1:L:92:LEU:O	1:L:94:GLN:HG2	2.11	0.49
1:M:571:ALA:HB2	1:M:633:LEU:HD21	1.94	0.49
1:N:154:GLN:HB2	1:N:157:VAL:HG22	1.95	0.49
1:N:542:ALA:HB3	1:N:639:ASP:HB2	1.94	0.49
1:P:67:ARG:NH2	1:P:71:SER:O	2.45	0.49
1:T:184:ASP:HB3	1:T:190:ARG:HG3	1.95	0.49
1:T:288:MET:HG3	1:T:293:LYS:C	2.32	0.49
1:T:467:ALA:HB2	1:T:518:LEU:HD11	1.93	0.49
1:T:542:ALA:HB3	1:T:639:ASP:HB2	1.94	0.49
1:V:184:ASP:HB3	1:V:190:ARG:HG3	1.95	0.49
1:W:184:ASP:HB3	1:W:190:ARG:HG3	1.95	0.49
1:X:753:ILE:HG13	1:X:756:GLU:CB	2.43	0.49
1:Y:382:LEU:HD13	1:Y:387:GLY:HA2	1.94	0.49
1:Z:81:VAL:HG11	1:Z:100:TYR:HB3	1.94	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:91:ARG:NH1	1:AA:94:GLN:OE1	2.39	0.49
1:BA:138:MET:SD	1:BA:139:ALA:N	2.86	0.49
1:BA:181:GLU:HG2	1:BA:191:VAL:HG12	1.95	0.49
1:BA:652:ASP:HA	1:BA:655:GLN:HB2	1.95	0.49
1:CA:571:ALA:HB2	1:CA:633:LEU:HD21	1.94	0.49
1:DA:154:GLN:HB2	1:DA:157:VAL:HG22	1.95	0.49
1:DA:285:LEU:N	1:DA:315:ARG:O	2.41	0.49
1:FA:67:ARG:NH2	1:FA:71:SER:O	2.45	0.49
1:FA:92:LEU:O	1:FA:94:GLN:HG2	2.11	0.49
1:GA:196:TRP:HA	1:GA:263:VAL:HG21	1.93	0.49
1:JA:652:ASP:HA	1:JA:655:GLN:HB2	1.94	0.49
1:KA:65:VAL:O	1:KA:84:ARG:NH2	2.45	0.49
1:KA:467:ALA:HB2	1:KA:518:LEU:HD11	1.93	0.49
1:KA:709:LEU:HA	1:KA:712:MET:HG3	1.95	0.49
1:LA:15:TYR:HB3	1:LA:30:VAL:HA	1.94	0.49
1:LA:81:VAL:HG11	1:LA:100:TYR:HB3	1.94	0.49
1:NA:65:VAL:O	1:NA:84:ARG:NH2	2.45	0.49
1:NA:288:MET:HG3	1:NA:293:LYS:C	2.32	0.49
1:NA:682:GLN:OE1	1:NA:685:ARG:NH2	2.41	0.49
1:OA:709:LEU:HA	1:OA:712:MET:HG3	1.95	0.49
1:QA:709:LEU:HA	1:QA:712:MET:HG3	1.95	0.49
1:RA:184:ASP:HB3	1:RA:190:ARG:HG3	1.95	0.49
1:RA:279:ARG:HH22	1:TA:299:LYS:HZ2	1.61	0.49
1:UA:571:ALA:HB2	1:UA:633:LEU:HD21	1.94	0.49
1:VA:327:SER:H	1:VA:330:GLN:HB2	1.76	0.49
1:VA:467:ALA:HB2	1:VA:518:LEU:HD11	1.93	0.49
1:WA:154:GLN:HB2	1:WA:157:VAL:HG22	1.95	0.49
1:WA:181:GLU:HG2	1:WA:191:VAL:HG12	1.95	0.49
1:WA:382:LEU:HD13	1:WA:387:GLY:HA2	1.94	0.49
1:XA:81:VAL:HG11	1:XA:100:TYR:HB3	1.94	0.49
1:XA:91:ARG:NH1	1:XA:94:GLN:OE1	2.39	0.49
1:ZA:81:VAL:HG11	1:ZA:100:TYR:HB3	1.94	0.49
1:ZA:138:MET:SD	1:ZA:139:ALA:N	2.86	0.49
1:ZA:138:MET:N	1:ZA:141:ASP:OD2	2.36	0.49
1:BB:181:GLU:HG2	1:BB:191:VAL:HG12	1.95	0.49
1:BB:753:ILE:HG13	1:BB:756:GLU:CB	2.43	0.49
1:EB:154:GLN:HB2	1:EB:157:VAL:HG22	1.95	0.49
1:FB:65:VAL:O	1:FB:84:ARG:NH2	2.45	0.49
1:GB:288:MET:HG3	1:GB:293:LYS:C	2.32	0.49
1:GB:652:ASP:HA	1:GB:655:GLN:CB	2.42	0.49
1:HB:709:LEU:HA	1:HB:712:MET:HG3	1.95	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:IB:709:LEU:HA	1:IB:712:MET:HG3	1.95	0.49
1:KB:138:MET:SD	1:KB:139:ALA:N	2.85	0.49
1:LB:184:ASP:HB3	1:LB:190:ARG:HG3	1.95	0.49
1:LB:669:GLN:OE1	1:MB:664:ILE:HD11	2.13	0.49
1:LB:682:GLN:OE1	1:LB:685:ARG:NH2	2.41	0.49
1:LB:750:ALA:HB2	1:MB:741:VAL:HG22	1.95	0.49
1:MB:250:LEU:HG	1:MB:312:PRO:HD3	1.95	0.49
1:MB:285:LEU:N	1:MB:315:ARG:O	2.41	0.49
1:MB:571:ALA:HB2	1:MB:633:LEU:HD21	1.94	0.49
1:NB:15:TYR:HB3	1:NB:30:VAL:HA	1.94	0.49
1:OB:118:ASN:ND2	1:PB:180:LYS:HB3	2.27	0.49
1:PB:181:GLU:HG2	1:PB:191:VAL:HG12	1.95	0.49
1:PB:382:LEU:HD13	1:PB:387:GLY:HA2	1.94	0.49
1:QB:709:LEU:HA	1:QB:712:MET:HG3	1.95	0.49
1:QB:801:ALA:HB1	1:RB:796:LYS:HZ2	1.77	0.49
1:RB:81:VAL:HG11	1:RB:100:TYR:HB3	1.94	0.49
1:RB:502:ALA:HB2	1:RB:511:ARG:HB2	1.94	0.49
1:SB:138:MET:SD	1:SB:139:ALA:N	2.85	0.49
1:SB:571:ALA:HB2	1:SB:633:LEU:HD21	1.94	0.49
1:SB:709:LEU:HA	1:SB:712:MET:HG3	1.95	0.49
1:TB:17:HIS:NE2	1:TB:99:LEU:O	2.34	0.49
1:TB:652:ASP:HA	1:TB:655:GLN:CB	2.42	0.49
1:UB:502:ALA:HB2	1:UB:511:ARG:HB2	1.94	0.49
1:VB:406:TYR:HH	1:VB:412:GLU:CD	2.16	0.49
1:VB:502:ALA:HB2	1:VB:511:ARG:HB2	1.94	0.49
1:WB:184:ASP:HB3	1:WB:190:ARG:HG3	1.95	0.49
1:WB:467:ALA:HB2	1:WB:518:LEU:HD11	1.93	0.49
1:XB:250:LEU:HG	1:XB:312:PRO:HD3	1.95	0.49
1:XB:652:ASP:HA	1:XB:655:GLN:HB2	1.95	0.49
1:YB:65:VAL:O	1:YB:84:ARG:NH2	2.45	0.49
1:YB:652:ASP:HA	1:YB:655:GLN:HB2	1.94	0.49
1:ZB:138:MET:SD	1:ZB:139:ALA:N	2.86	0.49
1:AC:250:LEU:HG	1:AC:312:PRO:HD3	1.94	0.49
1:A:735:ILE:O	1:C:730:ALA:HB2	2.13	0.49
1:C:184:ASP:HB3	1:C:190:ARG:HG3	1.95	0.49
1:D:592:HIS:NE2	1:F:584:ALA:CB	2.76	0.49
1:E:138:MET:SD	1:E:139:ALA:N	2.86	0.49
1:G:502:ALA:HB2	1:G:511:ARG:HB2	1.94	0.49
1:I:739:GLY:O	1:I:743:GLN:HG3	2.13	0.49
1:J:250:LEU:HG	1:J:312:PRO:HD3	1.94	0.49
1:J:285:LEU:N	1:J:315:ARG:O	2.41	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:652:ASP:HA	1:J:655:GLN:CB	2.42	0.49
1:J:709:LEU:HA	1:J:712:MET:HG3	1.95	0.49
1:K:138:MET:SD	1:K:139:ALA:N	2.85	0.49
1:K:652:ASP:HA	1:K:655:GLN:HB2	1.94	0.49
1:L:652:ASP:HA	1:L:655:GLN:HB2	1.95	0.49
1:M:709:LEU:HA	1:M:712:MET:HG3	1.95	0.49
1:O:753:ILE:HG13	1:O:756:GLU:CB	2.43	0.49
1:P:250:LEU:HG	1:P:312:PRO:HD3	1.95	0.49
1:P:285:LEU:N	1:P:315:ARG:O	2.41	0.49
1:R:288:MET:HG3	1:R:293:LYS:C	2.32	0.49
1:R:341:GLU:HB3	1:R:344:GLU:HG2	1.95	0.49
1:R:652:ASP:HA	1:R:655:GLN:HB2	1.94	0.49
1:S:184:ASP:HB3	1:S:190:ARG:HG3	1.95	0.49
1:T:138:MET:SD	1:T:139:ALA:N	2.86	0.49
1:W:154:GLN:HB2	1:W:157:VAL:HG22	1.95	0.49
1:W:406:TYR:HH	1:W:412:GLU:CD	2.16	0.49
1:W:542:ALA:HB3	1:W:639:ASP:HB2	1.94	0.49
1:X:382:LEU:HD13	1:X:387:GLY:HA2	1.94	0.49
1:X:533:ASP:OD2	1:X:587:THR:OG1	2.17	0.49
1:Y:184:ASP:HB3	1:Y:190:ARG:HG3	1.95	0.49
1:Y:250:LEU:HG	1:Y:312:PRO:HD3	1.94	0.49
1:Z:154:GLN:HB2	1:Z:157:VAL:HG22	1.95	0.49
1:Z:341:GLU:HB3	1:Z:344:GLU:HG2	1.95	0.49
1:Z:382:LEU:HD13	1:Z:387:GLY:HA2	1.94	0.49
1:AA:15:TYR:HB3	1:AA:30:VAL:HA	1.94	0.49
1:AA:138:MET:SD	1:AA:139:ALA:N	2.85	0.49
1:AA:196:TRP:HA	1:AA:263:VAL:HG21	1.93	0.49
1:AA:250:LEU:HG	1:AA:312:PRO:HD3	1.95	0.49
1:AA:382:LEU:HD13	1:AA:387:GLY:HA2	1.94	0.49
1:AA:753:ILE:HG13	1:AA:756:GLU:CB	2.43	0.49
1:EA:467:ALA:HB2	1:EA:518:LEU:HD11	1.93	0.49
1:GA:154:GLN:HB2	1:GA:157:VAL:HG22	1.95	0.49
1:HA:467:ALA:HB2	1:HA:518:LEU:HD11	1.93	0.49
1:IA:15:TYR:HB3	1:IA:30:VAL:HA	1.94	0.49
1:IA:65:VAL:O	1:IA:84:ARG:NH2	2.45	0.49
1:IA:81:VAL:HG11	1:IA:100:TYR:HB3	1.94	0.49
1:IA:91:ARG:NH1	1:IA:94:GLN:OE1	2.38	0.49
1:IA:709:LEU:HA	1:IA:712:MET:HG3	1.95	0.49
1:JA:467:ALA:HB2	1:JA:518:LEU:HD11	1.93	0.49
1:JA:709:LEU:HA	1:JA:712:MET:HG3	1.94	0.49
1:KA:739:GLY:O	1:KA:743:GLN:HG3	2.13	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:MA:467:ALA:HB2	1:MA:518:LEU:HD11	1.93	0.49
1:NA:100:TYR:O	1:NA:103:GLU:HB2	2.13	0.49
1:NA:283:VAL:HG22	1:NA:301:VAL:HG12	1.95	0.49
1:OA:15:TYR:HB3	1:OA:30:VAL:HA	1.94	0.49
1:OA:184:ASP:HB3	1:OA:190:ARG:HG3	1.95	0.49
1:OA:196:TRP:HA	1:OA:263:VAL:HG21	1.93	0.49
1:PA:288:MET:HG3	1:PA:293:LYS:C	2.32	0.49
1:PA:382:LEU:HD13	1:PA:387:GLY:HA2	1.94	0.49
1:PA:502:ALA:HB2	1:PA:511:ARG:HB2	1.94	0.49
1:QA:184:ASP:HB3	1:QA:190:ARG:HG3	1.95	0.49
1:RA:15:TYR:HB3	1:RA:30:VAL:HA	1.94	0.49
1:RA:92:LEU:O	1:RA:94:GLN:HG2	2.11	0.49
1:RA:100:TYR:O	1:RA:103:GLU:HB2	2.13	0.49
1:RA:502:ALA:HB2	1:RA:511:ARG:HB2	1.94	0.49
1:TA:184:ASP:HB3	1:TA:190:ARG:HG3	1.95	0.49
1:TA:571:ALA:HB2	1:TA:633:LEU:HD21	1.94	0.49
1:UA:154:GLN:HB2	1:UA:157:VAL:HG22	1.95	0.49
1:UA:652:ASP:HA	1:UA:655:GLN:HB2	1.95	0.49
1:WA:467:ALA:HB2	1:WA:518:LEU:HD11	1.93	0.49
1:WA:709:LEU:HA	1:WA:712:MET:HG3	1.95	0.49
1:XA:250:LEU:HG	1:XA:312:PRO:HD3	1.95	0.49
1:YA:709:LEU:HA	1:YA:712:MET:HG3	1.95	0.49
1:ZA:184:ASP:HB3	1:ZA:190:ARG:HG3	1.95	0.49
1:ZA:406:TYR:HH	1:ZA:412:GLU:CD	2.16	0.49
1:AB:250:LEU:HG	1:AB:312:PRO:HD3	1.94	0.49
1:CB:67:ARG:NH2	1:CB:71:SER:O	2.45	0.49
1:EB:652:ASP:HA	1:EB:655:GLN:HB2	1.94	0.49
1:EB:724:ALA:HB2	1:FB:714:MET:SD	2.53	0.49
1:FB:138:MET:SD	1:FB:139:ALA:N	2.85	0.49
1:GB:753:ILE:HG13	1:GB:756:GLU:CB	2.43	0.49
1:JB:502:ALA:HB2	1:JB:511:ARG:HB2	1.94	0.49
1:JB:640:VAL:HG13	1:KB:580:ARG:HH22	1.78	0.49
1:KB:184:ASP:HB3	1:KB:190:ARG:HG3	1.95	0.49
1:LB:67:ARG:NH2	1:LB:71:SER:O	2.45	0.49
1:LB:652:ASP:HA	1:LB:655:GLN:CB	2.42	0.49
1:MB:327:SER:H	1:MB:330:GLN:HB2	1.76	0.49
1:NB:81:VAL:HG11	1:NB:100:TYR:HB3	1.94	0.49
1:PB:467:ALA:HB2	1:PB:518:LEU:HD11	1.93	0.49
1:QB:196:TRP:HA	1:QB:263:VAL:HG21	1.93	0.49
1:QB:753:ILE:HG13	1:QB:756:GLU:CB	2.43	0.49
1:SB:154:GLN:HB2	1:SB:157:VAL:HG22	1.95	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:TB:81:VAL:HG11	1:TB:100:TYR:HB3	1.94	0.49
1:TB:196:TRP:HA	1:TB:263:VAL:HG21	1.93	0.49
1:TB:423:VAL:HG21	1:TB:452:ARG:HD2	1.93	0.49
1:UB:196:TRP:HA	1:UB:263:VAL:HG21	1.93	0.49
1:WB:67:ARG:NH2	1:WB:71:SER:O	2.45	0.49
1:XB:138:MET:N	1:XB:141:ASP:OD2	2.36	0.49
1:YB:138:MET:N	1:YB:141:ASP:OD2	2.36	0.49
1:ZB:411:ASP:OD1	1:ZB:411:ASP:N	2.42	0.49
1:AC:709:LEU:HA	1:AC:712:MET:HG3	1.95	0.49
1:A:341:GLU:HB3	1:A:344:GLU:HG2	1.95	0.49
1:A:461:ARG:NH1	1:C:473:TYR:CE2	2.81	0.49
1:A:682:GLN:OE1	1:A:685:ARG:NH2	2.41	0.49
1:A:731:GLU:HG3	1:C:723:LYS:CB	2.42	0.49
1:B:502:ALA:HB2	1:B:511:ARG:HB2	1.94	0.49
1:C:154:GLN:HB2	1:C:157:VAL:HG22	1.95	0.49
1:C:283:VAL:HG22	1:C:301:VAL:HG12	1.95	0.49
1:C:382:LEU:HD13	1:C:387:GLY:HA2	1.94	0.49
1:C:502:ALA:HB2	1:C:511:ARG:HB2	1.94	0.49
1:C:783:LYS:HA	1:E:777:LEU:HG	0.65	0.49
1:D:9:ARG:CZ	1:F:21:GLN:HA	2.42	0.49
1:D:32:PRO:HG3	1:F:76:ASP:CB	2.23	0.49
1:D:223:GLU:HB2	1:F:293:LYS:HD3	1.94	0.49
1:D:283:VAL:HG22	1:D:301:VAL:HG12	1.95	0.49
1:E:652:ASP:HA	1:E:655:GLN:HB2	1.95	0.49
1:E:709:LEU:HA	1:E:712:MET:HG3	1.95	0.49
1:F:91:ARG:NH1	1:F:94:GLN:OE1	2.39	0.49
1:H:283:VAL:HG22	1:H:301:VAL:HG12	1.95	0.49
1:H:341:GLU:HB3	1:H:344:GLU:HG2	1.95	0.49
1:I:250:LEU:HG	1:I:312:PRO:HD3	1.95	0.49
1:K:382:LEU:HD13	1:K:387:GLY:HA2	1.94	0.49
1:L:285:LEU:N	1:L:315:ARG:O	2.41	0.49
1:L:571:ALA:HB2	1:L:633:LEU:HD21	1.94	0.49
1:L:739:GLY:O	1:L:743:GLN:HG3	2.13	0.49
1:L:753:ILE:HG13	1:L:756:GLU:CB	2.43	0.49
1:M:15:TYR:HB3	1:M:30:VAL:HA	1.94	0.49
1:M:81:VAL:HG11	1:M:100:TYR:HB3	1.94	0.49
1:M:502:ALA:HB2	1:M:511:ARG:HB2	1.94	0.49
1:N:341:GLU:HB3	1:N:344:GLU:HG2	1.95	0.49
1:O:100:TYR:O	1:O:103:GLU:HB2	2.13	0.49
1:P:181:GLU:HG2	1:P:191:VAL:HG12	1.95	0.49
1:Q:100:TYR:O	1:Q:103:GLU:HB2	2.13	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:W:181:GLU:HG2	1:W:191:VAL:HG12	1.95	0.49
1:X:138:MET:SD	1:X:139:ALA:N	2.85	0.49
1:X:467:ALA:HB2	1:X:518:LEU:HD11	1.93	0.49
1:X:502:ALA:HB2	1:X:511:ARG:HB2	1.94	0.49
1:AA:283:VAL:HG22	1:AA:301:VAL:HG12	1.95	0.49
1:EA:138:MET:SD	1:EA:139:ALA:N	2.85	0.49
1:EA:154:GLN:HB2	1:EA:157:VAL:HG22	1.95	0.49
1:EA:709:LEU:HA	1:EA:712:MET:HG3	1.95	0.49
1:FA:100:TYR:O	1:FA:103:GLU:HB2	2.13	0.49
1:FA:184:ASP:HB3	1:FA:190:ARG:HG3	1.95	0.49
1:GA:138:MET:SD	1:GA:139:ALA:N	2.86	0.49
1:GA:682:GLN:OE1	1:GA:685:ARG:NH2	2.41	0.49
1:HA:283:VAL:HG22	1:HA:301:VAL:HG12	1.95	0.49
1:IA:154:GLN:HB2	1:IA:157:VAL:HG22	1.95	0.49
1:JA:138:MET:SD	1:JA:139:ALA:N	2.86	0.49
1:KA:299:LYS:NZ	1:KA:317:GLU:OE2	2.32	0.49
1:MA:406:TYR:HH	1:MA:412:GLU:CD	2.16	0.49
1:MA:739:GLY:O	1:MA:743:GLN:HG3	2.13	0.49
1:NA:154:GLN:HB2	1:NA:157:VAL:HG22	1.95	0.49
1:NA:181:GLU:HG2	1:NA:191:VAL:HG12	1.95	0.49
1:OA:283:VAL:HG22	1:OA:301:VAL:HG12	1.95	0.49
1:OA:652:ASP:HA	1:OA:655:GLN:HB2	1.94	0.49
1:PA:341:GLU:HB3	1:PA:344:GLU:HG2	1.95	0.49
1:RA:81:VAL:HG11	1:RA:100:TYR:HB3	1.94	0.49
1:RA:196:TRP:HA	1:RA:263:VAL:HG21	1.93	0.49
1:TA:154:GLN:HB2	1:TA:157:VAL:HG22	1.95	0.49
1:UA:184:ASP:HB3	1:UA:190:ARG:HG3	1.95	0.49
1:VA:67:ARG:NH2	1:VA:71:SER:O	2.45	0.49
1:WA:138:MET:SD	1:WA:139:ALA:N	2.86	0.49
1:XA:15:TYR:HB3	1:XA:30:VAL:HA	1.94	0.49
1:XA:67:ARG:NH2	1:XA:71:SER:O	2.45	0.49
1:XA:709:LEU:HA	1:XA:712:MET:HG3	1.95	0.49
1:YA:299:LYS:NZ	1:YA:317:GLU:OE2	2.32	0.49
1:YA:467:ALA:HB2	1:YA:518:LEU:HD11	1.93	0.49
1:YA:502:ALA:HB2	1:YA:511:ARG:HB2	1.94	0.49
1:ZA:154:GLN:HB2	1:ZA:157:VAL:HG22	1.95	0.49
1:ZA:204:TYR:OH	1:ZA:210:GLU:OE2	2.30	0.49
1:AB:91:ARG:NH1	1:AB:94:GLN:OE1	2.39	0.49
1:AB:100:TYR:O	1:AB:103:GLU:HB2	2.13	0.49
1:BB:67:ARG:NH2	1:BB:71:SER:O	2.45	0.49
1:CB:283:VAL:HG22	1:CB:301:VAL:HG12	1.95	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:DB:138:MET:SD	1:DB:139:ALA:N	2.85	0.49
1:DB:571:ALA:HB2	1:DB:633:LEU:HD21	1.94	0.49
1:EB:327:SER:H	1:EB:330:GLN:HB2	1.76	0.49
1:EB:709:LEU:HA	1:EB:712:MET:HG3	1.95	0.49
1:FB:154:GLN:HB2	1:FB:157:VAL:HG22	1.95	0.49
1:FB:327:SER:H	1:FB:330:GLN:HB2	1.76	0.49
1:GB:709:LEU:HA	1:GB:712:MET:HG3	1.95	0.49
1:HB:382:LEU:HD13	1:HB:387:GLY:HA2	1.94	0.49
1:HB:652:ASP:HA	1:HB:655:GLN:HB2	1.95	0.49
1:IB:81:VAL:HG11	1:IB:100:TYR:HB3	1.94	0.49
1:JB:184:ASP:HB3	1:JB:190:ARG:HG3	1.95	0.49
1:JB:406:TYR:HH	1:JB:412:GLU:CD	2.16	0.49
1:JB:652:ASP:HA	1:JB:655:GLN:CB	2.42	0.49
1:JB:709:LEU:HA	1:JB:712:MET:HG3	1.94	0.49
1:KB:81:VAL:HG11	1:KB:100:TYR:HB3	1.94	0.49
1:KB:502:ALA:HB2	1:KB:511:ARG:HB2	1.94	0.49
1:LB:382:LEU:HD13	1:LB:387:GLY:HA2	1.94	0.49
1:NB:154:GLN:HB2	1:NB:157:VAL:HG22	1.95	0.49
1:NB:181:GLU:HG2	1:NB:191:VAL:HG12	1.95	0.49
1:NB:196:TRP:HA	1:NB:263:VAL:HG21	1.93	0.49
1:OB:203:ALA:N	1:PB:192:THR:CG2	2.75	0.49
1:OB:655:GLN:NE2	1:PB:649:ARG:CB	2.76	0.49
1:PB:571:ALA:HB2	1:PB:633:LEU:HD21	1.94	0.49
1:QB:181:GLU:HG2	1:QB:191:VAL:HG12	1.95	0.49
1:RB:184:ASP:HB3	1:RB:190:ARG:HG3	1.95	0.49
1:SB:100:TYR:O	1:SB:103:GLU:HB2	2.13	0.49
1:SB:502:ALA:HB2	1:SB:511:ARG:HB2	1.94	0.49
1:TB:382:LEU:HD13	1:TB:387:GLY:HA2	1.94	0.49
1:VB:138:MET:SD	1:VB:139:ALA:N	2.86	0.49
1:XB:65:VAL:O	1:XB:84:ARG:NH2	2.45	0.49
1:XB:709:LEU:HA	1:XB:712:MET:HG3	1.95	0.49
1:ZB:67:ARG:NH2	1:ZB:71:SER:O	2.45	0.49
1:ZB:100:TYR:O	1:ZB:103:GLU:HB2	2.13	0.49
1:A:138:MET:SD	1:A:139:ALA:N	2.85	0.49
1:A:181:GLU:HG2	1:A:191:VAL:HG12	1.95	0.49
1:A:702:ALA:CB	1:C:693:ILE:CG2	2.89	0.49
1:A:768:MET:SD	1:C:759:LEU:CG	3.01	0.49
1:B:15:TYR:HB3	1:B:30:VAL:HA	1.94	0.49
1:B:283:VAL:HG22	1:B:301:VAL:HG12	1.95	0.49
1:B:341:GLU:HB3	1:B:344:GLU:HG2	1.95	0.49
1:B:467:ALA:HB2	1:B:518:LEU:HD11	1.93	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:138:MET:SD	1:D:139:ALA:N	2.85	0.49
1:D:341:GLU:HB3	1:D:344:GLU:HG2	1.95	0.49
1:E:739:GLY:O	1:E:743:GLN:HG3	2.13	0.49
1:F:652:ASP:HA	1:F:655:GLN:HB2	1.94	0.49
1:G:652:ASP:HA	1:G:655:GLN:CB	2.42	0.49
1:H:768:MET:CE	1:J:763:LYS:HB2	2.43	0.49
1:I:100:TYR:O	1:I:103:GLU:HB2	2.13	0.49
1:I:138:MET:SD	1:I:139:ALA:N	2.85	0.49
1:I:181:GLU:HG2	1:I:191:VAL:HG12	1.95	0.49
1:I:652:ASP:HA	1:I:655:GLN:HB2	1.94	0.49
1:J:204:TYR:OH	1:J:210:GLU:OE2	2.30	0.49
1:J:794:LYS:HD3	1:L:791:GLU:OE2	2.13	0.49
1:K:81:VAL:HG11	1:K:100:TYR:HB3	1.94	0.49
1:L:283:VAL:HG22	1:L:301:VAL:HG12	1.95	0.49
1:N:682:GLN:OE1	1:N:685:ARG:NH2	2.41	0.49
1:R:533:ASP:OD2	1:R:587:THR:OG1	2.17	0.49
1:R:682:GLN:OE1	1:R:685:ARG:NH2	2.41	0.49
1:S:154:GLN:HB2	1:S:157:VAL:HG22	1.95	0.49
1:T:204:TYR:OH	1:T:210:GLU:OE2	2.30	0.49
1:V:595:SER:CB	1:X:580:ARG:HH12	2.26	0.49
1:X:100:TYR:O	1:X:103:GLU:HB2	2.13	0.49
1:Y:138:MET:SD	1:Y:139:ALA:N	2.85	0.49
1:Z:15:TYR:HB3	1:Z:30:VAL:HA	1.94	0.49
1:Z:181:GLU:HG2	1:Z:191:VAL:HG12	1.95	0.49
1:BA:382:LEU:HD13	1:BA:387:GLY:HA2	1.94	0.49
1:CA:15:TYR:HB3	1:CA:30:VAL:HA	1.94	0.49
1:CA:250:LEU:HG	1:CA:312:PRO:HD3	1.95	0.49
1:CA:285:LEU:N	1:CA:315:ARG:O	2.41	0.49
1:DA:652:ASP:HA	1:DA:655:GLN:HB2	1.95	0.49
1:FA:283:VAL:HG22	1:FA:301:VAL:HG12	1.95	0.49
1:FA:341:GLU:HB3	1:FA:344:GLU:HG2	1.95	0.49
1:FA:739:GLY:O	1:FA:743:GLN:HG3	2.13	0.49
1:HA:67:ARG:NH2	1:HA:71:SER:O	2.45	0.49
1:HA:695:ASP:HB3	1:JA:686:GLY:HA2	1.95	0.49
1:IA:138:MET:SD	1:IA:139:ALA:N	2.85	0.49
1:IA:285:LEU:N	1:IA:315:ARG:O	2.41	0.49
1:KA:67:ARG:NH2	1:KA:71:SER:O	2.45	0.49
1:KA:542:ALA:HB3	1:KA:639:ASP:HB2	1.94	0.49
1:MA:283:VAL:HG22	1:MA:301:VAL:HG12	1.95	0.49
1:MA:382:LEU:HD13	1:MA:387:GLY:HA2	1.94	0.49
1:OA:81:VAL:HG11	1:OA:100:TYR:HB3	1.94	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:OA:299:LYS:NZ	1:OA:317:GLU:OE2	2.32	0.49
1:PA:753:ILE:HG13	1:PA:756:GLU:CB	2.43	0.49
1:RA:154:GLN:HB2	1:RA:157:VAL:HG22	1.95	0.49
1:RA:382:LEU:HD13	1:RA:387:GLY:HA2	1.94	0.49
1:SA:250:LEU:HG	1:SA:312:PRO:HD3	1.95	0.49
1:SA:709:LEU:HA	1:SA:712:MET:HG3	1.95	0.49
1:TA:250:LEU:HG	1:TA:312:PRO:HD3	1.95	0.49
1:TA:406:TYR:HH	1:TA:412:GLU:CD	2.16	0.49
1:UA:288:MET:HG3	1:UA:293:LYS:C	2.32	0.49
1:UA:709:LEU:HA	1:UA:712:MET:HG3	1.95	0.49
1:WA:81:VAL:HG11	1:WA:100:TYR:HB3	1.94	0.49
1:XA:341:GLU:HB3	1:XA:344:GLU:HG2	1.95	0.49
1:XA:673:ALA:HB1	1:ZA:664:ILE:HB	1.94	0.49
1:YA:250:LEU:HG	1:YA:312:PRO:HD3	1.95	0.49
1:YA:283:VAL:HG22	1:YA:301:VAL:HG12	1.95	0.49
1:YA:739:GLY:O	1:YA:743:GLN:HG3	2.13	0.49
1:BB:542:ALA:HB3	1:BB:639:ASP:HB2	1.94	0.49
1:CB:184:ASP:HB3	1:CB:190:ARG:HG3	1.95	0.49
1:EB:250:LEU:HG	1:EB:312:PRO:HD3	1.94	0.49
1:EB:406:TYR:HH	1:EB:412:GLU:CD	2.16	0.49
1:FB:171:ASN:ND2	1:GB:233:GLN:HA	2.28	0.49
1:FB:285:LEU:N	1:FB:315:ARG:O	2.41	0.49
1:FB:641:GLN:HE21	1:GB:573:LYS:HB2	1.74	0.49
1:GB:15:TYR:HB3	1:GB:30:VAL:HA	1.94	0.49
1:GB:652:ASP:HA	1:GB:655:GLN:HB2	1.95	0.49
1:HB:81:VAL:HG11	1:HB:100:TYR:HB3	1.94	0.49
1:HB:327:SER:H	1:HB:330:GLN:HB2	1.76	0.49
1:HB:467:ALA:HB2	1:HB:518:LEU:HD11	1.93	0.49
1:HB:542:ALA:HB3	1:HB:639:ASP:HB2	1.94	0.49
1:IB:250:LEU:HG	1:IB:312:PRO:HD3	1.95	0.49
1:IB:502:ALA:HB2	1:IB:511:ARG:HB2	1.94	0.49
1:JB:67:ARG:NH2	1:JB:71:SER:O	2.45	0.49
1:LB:533:ASP:OD2	1:LB:587:THR:OG1	2.17	0.49
1:LB:724:ALA:O	1:MB:718:SER:OG	2.31	0.49
1:LB:739:GLY:O	1:LB:743:GLN:HG3	2.13	0.49
1:MB:341:GLU:HB3	1:MB:344:GLU:HG2	1.95	0.49
1:MB:753:ILE:HG13	1:MB:756:GLU:CB	2.43	0.49
1:NB:184:ASP:HB3	1:NB:190:ARG:HG3	1.95	0.49
1:PB:138:MET:SD	1:PB:139:ALA:N	2.85	0.49
1:PB:204:TYR:OH	1:PB:210:GLU:OE2	2.30	0.49
1:PB:652:ASP:HA	1:PB:655:GLN:HB2	1.94	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:QB:81:VAL:HG11	1:QB:100:TYR:HB3	1.94	0.49
1:QB:184:ASP:HB3	1:QB:190:ARG:HG3	1.95	0.49
1:QB:739:GLY:O	1:QB:743:GLN:HG3	2.13	0.49
1:TB:138:MET:SD	1:TB:139:ALA:N	2.85	0.49
1:UB:739:GLY:O	1:UB:743:GLN:HG3	2.13	0.49
1:VB:67:ARG:NH2	1:VB:71:SER:O	2.45	0.49
1:WB:283:VAL:HG22	1:WB:301:VAL:HG12	1.95	0.49
1:WB:739:GLY:O	1:WB:743:GLN:HG3	2.13	0.49
1:YB:382:LEU:HD13	1:YB:387:GLY:HA2	1.94	0.49
1:ZB:250:LEU:HG	1:ZB:312:PRO:HD3	1.95	0.49
1:ZB:341:GLU:HB3	1:ZB:344:GLU:HG2	1.95	0.49
1:AC:15:TYR:HB3	1:AC:30:VAL:HA	1.94	0.49
1:AC:542:ALA:HB3	1:AC:639:ASP:HB2	1.94	0.49
1:A:285:LEU:N	1:A:315:ARG:O	2.41	0.48
1:A:728:SER:HA	1:C:719:THR:HA	1.94	0.48
1:B:100:TYR:O	1:B:103:GLU:HB2	2.13	0.48
1:B:138:MET:SD	1:B:139:ALA:N	2.86	0.48
1:B:406:TYR:HH	1:B:412:GLU:CD	2.16	0.48
1:B:486:LEU:O	1:D:476:LYS:NZ	2.46	0.48
1:D:167:VAL:CB	1:F:192:THR:O	2.60	0.48
1:D:531:THR:HG23	1:D:533:ASP:H	1.79	0.48
1:E:779:LEU:HD13	1:G:770:LEU:HA	1.93	0.48
1:F:15:TYR:HB3	1:F:30:VAL:HA	1.94	0.48
1:F:283:VAL:HG22	1:F:301:VAL:HG12	1.95	0.48
1:G:181:GLU:HG2	1:G:191:VAL:HG12	1.95	0.48
1:H:67:ARG:NH2	1:H:71:SER:O	2.45	0.48
1:H:531:THR:HG23	1:H:533:ASP:H	1.78	0.48
1:J:341:GLU:HB3	1:J:344:GLU:HG2	1.95	0.48
1:J:467:ALA:HB2	1:J:518:LEU:HD11	1.93	0.48
1:L:467:ALA:HB2	1:L:518:LEU:HD11	1.93	0.48
1:M:154:GLN:HB2	1:M:157:VAL:HG22	1.95	0.48
1:M:382:LEU:HD13	1:M:387:GLY:HA2	1.94	0.48
1:O:138:MET:SD	1:O:139:ALA:N	2.86	0.48
1:O:423:VAL:HG21	1:O:452:ARG:HD2	1.93	0.48
1:P:100:TYR:O	1:P:103:GLU:HB2	2.13	0.48
1:P:184:ASP:HB3	1:P:190:ARG:HG3	1.95	0.48
1:Q:17:HIS:NE2	1:Q:99:LEU:O	2.34	0.48
1:Q:709:LEU:HA	1:Q:712:MET:HG3	1.95	0.48
1:R:67:ARG:NH2	1:R:71:SER:O	2.45	0.48
1:R:542:ALA:HB3	1:R:639:ASP:HB2	1.94	0.48
1:S:739:GLY:O	1:S:743:GLN:HG3	2.13	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:T:709:LEU:HA	1:T:712:MET:HG3	1.95	0.48
1:V:138:MET:SD	1:V:139:ALA:N	2.86	0.48
1:X:709:LEU:HA	1:X:712:MET:HG3	1.95	0.48
1:Z:100:TYR:O	1:Z:103:GLU:HB2	2.13	0.48
1:Z:138:MET:SD	1:Z:139:ALA:N	2.85	0.48
1:Z:184:ASP:HB3	1:Z:190:ARG:HG3	1.95	0.48
1:BA:542:ALA:HB3	1:BA:639:ASP:HB2	1.94	0.48
1:DA:382:LEU:HD13	1:DA:387:GLY:HA2	1.94	0.48
1:EA:753:ILE:HG13	1:EA:756:GLU:CB	2.43	0.48
1:GA:285:LEU:N	1:GA:315:ARG:O	2.41	0.48
1:HA:15:TYR:HB3	1:HA:30:VAL:HA	1.94	0.48
1:HA:154:GLN:HB2	1:HA:157:VAL:HG22	1.95	0.48
1:HA:250:LEU:HG	1:HA:312:PRO:HD3	1.95	0.48
1:HA:406:TYR:HH	1:HA:412:GLU:CD	2.16	0.48
1:HA:739:GLY:O	1:HA:743:GLN:HG3	2.13	0.48
1:IA:67:ARG:NH2	1:IA:71:SER:O	2.45	0.48
1:IA:362:PRO:CB	1:KA:352:GLN:HB2	2.37	0.48
1:IA:531:THR:HG23	1:IA:533:ASP:H	1.79	0.48
1:JA:15:TYR:HB3	1:JA:30:VAL:HA	1.94	0.48
1:JA:283:VAL:HG22	1:JA:301:VAL:HG12	1.95	0.48
1:LA:341:GLU:HB3	1:LA:344:GLU:HG2	1.95	0.48
1:MA:15:TYR:HB3	1:MA:30:VAL:HA	1.94	0.48
1:NA:502:ALA:HB2	1:NA:511:ARG:HB2	1.94	0.48
1:NA:571:ALA:HB2	1:NA:633:LEU:HD21	1.94	0.48
1:OA:67:ARG:NH2	1:OA:71:SER:O	2.45	0.48
1:PA:138:MET:SD	1:PA:139:ALA:N	2.86	0.48
1:RA:67:ARG:NH2	1:RA:71:SER:O	2.45	0.48
1:RA:138:MET:SD	1:RA:139:ALA:N	2.86	0.48
1:RA:250:LEU:HG	1:RA:312:PRO:HD3	1.95	0.48
1:SA:154:GLN:HB2	1:SA:157:VAL:HG22	1.95	0.48
1:SA:285:LEU:N	1:SA:315:ARG:O	2.41	0.48
1:TA:739:GLY:O	1:TA:743:GLN:HG3	2.13	0.48
1:UA:67:ARG:NH2	1:UA:71:SER:O	2.45	0.48
1:UA:283:VAL:HG22	1:UA:301:VAL:HG12	1.95	0.48
1:UA:382:LEU:HD13	1:UA:387:GLY:HA2	1.94	0.48
1:XA:184:ASP:HB3	1:XA:190:ARG:HG3	1.95	0.48
1:YA:327:SER:H	1:YA:330:GLN:HB2	1.76	0.48
1:ZA:739:GLY:O	1:ZA:743:GLN:HG3	2.13	0.48
1:AB:285:LEU:N	1:AB:315:ARG:O	2.41	0.48
1:AB:687:ARG:NH1	1:OB:679:ARG:NH1	2.59	0.48
1:AB:753:ILE:HG13	1:AB:756:GLU:CB	2.43	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CB:81:VAL:HG11	1:CB:100:TYR:HB3	1.94	0.48
1:DB:154:GLN:HB2	1:DB:157:VAL:HG22	1.95	0.48
1:DB:250:LEU:HG	1:DB:312:PRO:HD3	1.95	0.48
1:GB:65:VAL:O	1:GB:84:ARG:NH2	2.45	0.48
1:GB:91:ARG:NH1	1:GB:94:GLN:OE1	2.39	0.48
1:GB:100:TYR:O	1:GB:103:GLU:HB2	2.13	0.48
1:IB:753:ILE:HG13	1:IB:756:GLU:CB	2.43	0.48
1:JB:591:PHE:CD1	1:JB:598:ILE:HD11	2.42	0.48
1:LB:692:LYS:HG3	1:MB:682:GLN:CG	2.42	0.48
1:MB:750:ALA:HB2	1:NB:740:SER:OG	2.13	0.48
1:OB:154:GLN:HB2	1:OB:157:VAL:HG22	1.95	0.48
1:OB:171:ASN:ND2	1:PB:232:ARG:O	2.44	0.48
1:OB:257:GLU:CB	1:PB:245:THR:C	2.81	0.48
1:OB:364:GLU:HG2	1:PB:339:PRO:HD3	1.95	0.48
1:PB:154:GLN:HB2	1:PB:157:VAL:HG22	1.95	0.48
1:SB:181:GLU:HG2	1:SB:191:VAL:HG12	1.95	0.48
1:UB:15:TYR:HB3	1:UB:30:VAL:HA	1.94	0.48
1:UB:154:GLN:HB2	1:UB:157:VAL:HG22	1.95	0.48
1:UB:542:ALA:HB3	1:UB:639:ASP:HB2	1.94	0.48
1:UB:652:ASP:HA	1:UB:655:GLN:CB	2.42	0.48
1:VB:100:TYR:O	1:VB:103:GLU:HB2	2.13	0.48
1:VB:154:GLN:HB2	1:VB:157:VAL:HG22	1.95	0.48
1:VB:571:ALA:HB2	1:VB:633:LEU:HD21	1.94	0.48
1:YB:739:GLY:O	1:YB:743:GLN:HG3	2.13	0.48
1:AC:181:GLU:HG2	1:AC:191:VAL:HG12	1.95	0.48
1:A:717:GLU:HB2	1:C:707:LEU:CD2	2.44	0.48
1:B:67:ARG:NH2	1:B:71:SER:O	2.45	0.48
1:C:803:GLY:O	1:C:807:ILE:HG22	2.14	0.48
1:E:67:ARG:NH2	1:E:71:SER:O	2.45	0.48
1:E:285:LEU:N	1:E:315:ARG:O	2.41	0.48
1:H:100:TYR:O	1:H:103:GLU:HB2	2.13	0.48
1:I:341:GLU:HB3	1:I:344:GLU:HG2	1.95	0.48
1:J:100:TYR:O	1:J:103:GLU:HB2	2.13	0.48
1:J:184:ASP:HB3	1:J:190:ARG:HG3	1.95	0.48
1:J:283:VAL:HG22	1:J:301:VAL:HG12	1.95	0.48
1:J:288:MET:HG3	1:J:293:LYS:C	2.32	0.48
1:J:382:LEU:HD13	1:J:387:GLY:HA2	1.94	0.48
1:J:571:ALA:HB2	1:J:633:LEU:HD21	1.94	0.48
1:J:739:GLY:O	1:J:743:GLN:HG3	2.13	0.48
1:L:709:LEU:HA	1:L:712:MET:HG3	1.95	0.48
1:M:138:MET:SD	1:M:139:ALA:N	2.85	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:181:GLU:HG2	1:M:191:VAL:HG12	1.95	0.48
1:M:184:ASP:HB3	1:M:190:ARG:HG3	1.95	0.48
1:M:542:ALA:HB3	1:M:639:ASP:HB2	1.94	0.48
1:O:154:GLN:HB2	1:O:157:VAL:HG22	1.95	0.48
1:O:709:LEU:HA	1:O:712:MET:HG3	1.95	0.48
1:P:15:TYR:HB3	1:P:30:VAL:HA	1.94	0.48
1:P:382:LEU:HD13	1:P:387:GLY:HA2	1.94	0.48
1:R:250:LEU:HG	1:R:312:PRO:HD3	1.95	0.48
1:R:484:PRO:O	1:T:473:TYR:HE1	1.95	0.48
1:R:709:LEU:HA	1:R:712:MET:HG3	1.95	0.48
1:R:739:GLY:O	1:R:743:GLN:HG3	2.13	0.48
1:T:502:ALA:HB2	1:T:511:ARG:HB2	1.94	0.48
1:T:531:THR:HG23	1:T:533:ASP:H	1.78	0.48
1:V:52:THR:HG21	1:X:85:HIS:CD2	2.48	0.48
1:V:283:VAL:HG22	1:V:301:VAL:HG12	1.95	0.48
1:W:138:MET:SD	1:W:139:ALA:N	2.85	0.48
1:W:382:LEU:HD13	1:W:387:GLY:HA2	1.94	0.48
1:W:571:ALA:HB2	1:W:633:LEU:HD21	1.94	0.48
1:Z:285:LEU:N	1:Z:315:ARG:O	2.41	0.48
1:Z:502:ALA:HB2	1:Z:511:ARG:HB2	1.94	0.48
1:AA:709:LEU:HA	1:AA:712:MET:HG3	1.95	0.48
1:BA:184:ASP:HB3	1:BA:190:ARG:HG3	1.95	0.48
1:BA:283:VAL:HG22	1:BA:301:VAL:HG12	1.95	0.48
1:CA:341:GLU:HB3	1:CA:344:GLU:HG2	1.95	0.48
1:CA:709:LEU:HA	1:CA:712:MET:HG3	1.95	0.48
1:DA:64:PRO:O	1:DA:84:ARG:N	2.28	0.48
1:DA:283:VAL:HG22	1:DA:301:VAL:HG12	1.95	0.48
1:DA:341:GLU:HB3	1:DA:344:GLU:HG2	1.95	0.48
1:DA:739:GLY:O	1:DA:743:GLN:HG3	2.13	0.48
1:GA:67:ARG:NH2	1:GA:71:SER:O	2.45	0.48
1:GA:406:TYR:HH	1:GA:412:GLU:CD	2.16	0.48
1:HA:100:TYR:O	1:HA:103:GLU:HB2	2.13	0.48
1:HA:709:LEU:HA	1:HA:712:MET:HG3	1.95	0.48
1:IA:502:ALA:HB2	1:IA:511:ARG:HB2	1.94	0.48
1:IA:739:GLY:O	1:IA:743:GLN:HG3	2.13	0.48
1:JA:753:ILE:HG13	1:JA:756:GLU:CB	2.43	0.48
1:KA:154:GLN:HB2	1:KA:157:VAL:HG22	1.95	0.48
1:LA:65:VAL:O	1:LA:84:ARG:NH2	2.45	0.48
1:LA:184:ASP:HB3	1:LA:190:ARG:HG3	1.95	0.48
1:LA:803:GLY:O	1:LA:807:ILE:HG22	2.14	0.48
1:MA:138:MET:SD	1:MA:139:ALA:N	2.86	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:NA:542:ALA:HB3	1:NA:639:ASP:HB2	1.94	0.48
1:OA:739:GLY:O	1:OA:743:GLN:HG3	2.13	0.48
1:QA:181:GLU:HG2	1:QA:191:VAL:HG12	1.95	0.48
1:SA:15:TYR:HB3	1:SA:30:VAL:HA	1.94	0.48
1:SA:67:ARG:NH2	1:SA:71:SER:O	2.45	0.48
1:SA:283:VAL:HG22	1:SA:301:VAL:HG12	1.95	0.48
1:SA:341:GLU:HB3	1:SA:344:GLU:HG2	1.95	0.48
1:TA:666:THR:HG22	1:VA:657:SER:HB2	1.94	0.48
1:VA:283:VAL:HG22	1:VA:301:VAL:HG12	1.95	0.48
1:VA:709:LEU:HA	1:VA:712:MET:HG3	1.95	0.48
1:WA:531:THR:HG23	1:WA:533:ASP:H	1.78	0.48
1:XA:502:ALA:HB2	1:XA:511:ARG:HB2	1.94	0.48
1:YA:341:GLU:HB3	1:YA:344:GLU:HG2	1.95	0.48
1:YA:533:ASP:CG	1:YA:587:THR:HG1	2.12	0.48
1:ZA:67:ARG:NH2	1:ZA:71:SER:O	2.45	0.48
1:ZA:571:ALA:HB2	1:ZA:633:LEU:HD21	1.94	0.48
1:BB:531:THR:HG23	1:BB:533:ASP:H	1.78	0.48
1:CB:502:ALA:HB2	1:CB:511:ARG:HB2	1.94	0.48
1:CB:709:LEU:HA	1:CB:712:MET:HG3	1.95	0.48
1:DB:81:VAL:HG11	1:DB:100:TYR:HB3	1.94	0.48
1:DB:531:THR:HG23	1:DB:533:ASP:H	1.78	0.48
1:EB:709:LEU:HD13	1:FB:701:LYS:HG2	1.94	0.48
1:FB:283:VAL:HG22	1:FB:301:VAL:HG12	1.95	0.48
1:FB:385:ASN:HD22	1:GB:474:ARG:HA	1.78	0.48
1:FB:531:THR:HG23	1:FB:533:ASP:H	1.78	0.48
1:FB:642:SER:HA	1:GB:580:ARG:HE	1.77	0.48
1:GB:299:LYS:NZ	1:GB:317:GLU:OE2	2.32	0.48
1:GB:591:PHE:CD1	1:GB:598:ILE:HD11	2.42	0.48
1:HB:739:GLY:O	1:HB:743:GLN:HG3	2.13	0.48
1:IB:542:ALA:HB3	1:IB:639:ASP:HB2	1.94	0.48
1:IB:571:ALA:HB2	1:IB:633:LEU:HD21	1.94	0.48
1:JB:382:LEU:HD13	1:JB:387:GLY:HA2	1.94	0.48
1:MB:797:GLU:HB2	1:NB:792:ALA:HB1	1.93	0.48
1:NB:100:TYR:O	1:NB:103:GLU:HB2	2.13	0.48
1:NB:382:LEU:HD13	1:NB:387:GLY:HA2	1.94	0.48
1:NB:406:TYR:HH	1:NB:412:GLU:CD	2.17	0.48
1:NB:652:ASP:HA	1:NB:655:GLN:HB2	1.94	0.48
1:OB:184:ASP:HB3	1:OB:190:ARG:HG3	1.95	0.48
1:OB:250:LEU:HG	1:OB:312:PRO:HD3	1.95	0.48
1:PB:15:TYR:HB3	1:PB:30:VAL:HA	1.94	0.48
1:PB:803:GLY:O	1:PB:807:ILE:HG22	2.14	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:QB:138:MET:SD	1:QB:139:ALA:N	2.85	0.48
1:QB:283:VAL:HG22	1:QB:301:VAL:HG12	1.95	0.48
1:RB:100:TYR:O	1:RB:103:GLU:HB2	2.13	0.48
1:RB:138:MET:SD	1:RB:139:ALA:N	2.86	0.48
1:SB:382:LEU:HD13	1:SB:387:GLY:HA2	1.94	0.48
1:SB:406:TYR:HH	1:SB:412:GLU:CD	2.16	0.48
1:SB:542:ALA:HB3	1:SB:639:ASP:HB2	1.94	0.48
1:UB:283:VAL:HG22	1:UB:301:VAL:HG12	1.95	0.48
1:VB:542:ALA:HB3	1:VB:639:ASP:HB2	1.94	0.48
1:VB:709:LEU:HA	1:VB:712:MET:HG3	1.95	0.48
1:VB:739:GLY:O	1:VB:743:GLN:HG3	2.13	0.48
1:WB:100:TYR:O	1:WB:103:GLU:HB2	2.13	0.48
1:WB:138:MET:SD	1:WB:139:ALA:N	2.86	0.48
1:XB:341:GLU:HB3	1:XB:344:GLU:HG2	1.95	0.48
1:XB:803:GLY:O	1:XB:807:ILE:HG22	2.14	0.48
1:AC:154:GLN:HB2	1:AC:157:VAL:HG22	1.95	0.48
1:A:100:TYR:O	1:A:103:GLU:HB2	2.13	0.48
1:A:283:VAL:HG22	1:A:301:VAL:HG12	1.95	0.48
1:A:708:GLU:HG3	1:NB:716:VAL:HG11	1.94	0.48
1:A:779:LEU:CB	1:C:773:ALA:HB1	2.28	0.48
1:B:181:GLU:HG2	1:B:191:VAL:HG12	1.95	0.48
1:C:100:TYR:O	1:C:103:GLU:HB2	2.13	0.48
1:D:13:TYR:CZ	1:F:82:ARG:HD3	2.47	0.48
1:D:51:VAL:C	1:F:85:HIS:CD2	2.82	0.48
1:F:382:LEU:HD13	1:F:387:GLY:HA2	1.94	0.48
1:F:502:ALA:HB2	1:F:511:ARG:HB2	1.94	0.48
1:H:542:ALA:HB3	1:H:639:ASP:HB2	1.94	0.48
1:H:782:SER:OG	1:J:777:LEU:HD11	2.12	0.48
1:I:154:GLN:HB2	1:I:157:VAL:HG22	1.95	0.48
1:I:753:ILE:HG13	1:I:756:GLU:CB	2.43	0.48
1:J:803:GLY:O	1:J:807:ILE:HG22	2.14	0.48
1:K:406:TYR:HH	1:K:412:GLU:CD	2.17	0.48
1:L:138:MET:SD	1:L:139:ALA:N	2.85	0.48
1:M:250:LEU:HG	1:M:312:PRO:HD3	1.95	0.48
1:M:531:THR:HG23	1:M:533:ASP:H	1.79	0.48
1:N:100:TYR:O	1:N:103:GLU:HB2	2.13	0.48
1:N:652:ASP:HA	1:N:655:GLN:HB2	1.94	0.48
1:O:283:VAL:HG22	1:O:301:VAL:HG12	1.95	0.48
1:O:571:ALA:HB2	1:O:633:LEU:HD21	1.94	0.48
1:P:739:GLY:O	1:P:743:GLN:HG3	2.13	0.48
1:Q:382:LEU:HD13	1:Q:387:GLY:HA2	1.94	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Q:406:TYR:HH	1:Q:412:GLU:CD	2.16	0.48
1:Q:531:THR:HG23	1:Q:533:ASP:H	1.79	0.48
1:Q:591:PHE:CD1	1:Q:598:ILE:HD11	2.42	0.48
1:R:91:ARG:NH1	1:R:94:GLN:OE1	2.39	0.48
1:S:67:ARG:NH2	1:S:71:SER:O	2.45	0.48
1:S:542:ALA:HB3	1:S:639:ASP:HB2	1.94	0.48
1:W:204:TYR:OH	1:W:210:GLU:OE2	2.30	0.48
1:W:502:ALA:HB2	1:W:511:ARG:HB2	1.94	0.48
1:AA:341:GLU:HB3	1:AA:344:GLU:HG2	1.95	0.48
1:AA:502:ALA:HB2	1:AA:511:ARG:HB2	1.94	0.48
1:BA:531:THR:HG23	1:BA:533:ASP:H	1.78	0.48
1:CA:138:MET:SD	1:CA:139:ALA:N	2.86	0.48
1:CA:154:GLN:HB2	1:CA:157:VAL:HG22	1.95	0.48
1:CA:652:ASP:HA	1:CA:655:GLN:HB2	1.94	0.48
1:EA:250:LEU:HG	1:EA:312:PRO:HD3	1.95	0.48
1:EA:406:TYR:HH	1:EA:412:GLU:CD	2.16	0.48
1:FA:652:ASP:HA	1:FA:655:GLN:HB2	1.95	0.48
1:GA:15:TYR:HB3	1:GA:30:VAL:HA	1.94	0.48
1:HA:327:SER:H	1:HA:330:GLN:HB2	1.76	0.48
1:HA:542:ALA:HB3	1:HA:639:ASP:HB2	1.94	0.48
1:JA:502:ALA:HB2	1:JA:511:ARG:HB2	1.94	0.48
1:KA:204:TYR:OH	1:KA:210:GLU:OE2	2.30	0.48
1:LA:283:VAL:HG22	1:LA:301:VAL:HG12	1.95	0.48
1:LA:739:GLY:O	1:LA:743:GLN:HG3	2.13	0.48
1:MA:502:ALA:HB2	1:MA:511:ARG:HB2	1.94	0.48
1:NA:531:THR:HG23	1:NA:533:ASP:H	1.79	0.48
1:OA:250:LEU:HG	1:OA:312:PRO:HD3	1.95	0.48
1:PA:250:LEU:HG	1:PA:312:PRO:HD3	1.95	0.48
1:PA:542:ALA:HB3	1:PA:639:ASP:HB2	1.94	0.48
1:RA:181:GLU:HG2	1:RA:191:VAL:HG12	1.95	0.48
1:RA:709:LEU:HA	1:RA:712:MET:HG3	1.95	0.48
1:SA:753:ILE:HG13	1:SA:756:GLU:CB	2.43	0.48
1:TA:204:TYR:OH	1:TA:210:GLU:OE2	2.30	0.48
1:UA:138:MET:SD	1:UA:139:ALA:N	2.86	0.48
1:VA:181:GLU:HG2	1:VA:191:VAL:HG12	1.95	0.48
1:WA:250:LEU:HG	1:WA:312:PRO:HD3	1.95	0.48
1:WA:283:VAL:HG22	1:WA:301:VAL:HG12	1.95	0.48
1:WA:542:ALA:HB3	1:WA:639:ASP:HB2	1.94	0.48
1:XA:652:ASP:HA	1:XA:655:GLN:HB2	1.94	0.48
1:YA:803:GLY:O	1:YA:807:ILE:HG22	2.14	0.48
1:ZA:684:ALA:CB	1:BB:675:HIS:CG	2.96	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:BB:709:LEU:HA	1:BB:712:MET:HG3	1.95	0.48
1:CB:250:LEU:HG	1:CB:312:PRO:HD3	1.95	0.48
1:CB:382:LEU:HD13	1:CB:387:GLY:HA2	1.94	0.48
1:DB:382:LEU:HD13	1:DB:387:GLY:HA2	1.94	0.48
1:DB:739:GLY:O	1:DB:743:GLN:HG3	2.13	0.48
1:DB:753:ILE:HG13	1:DB:756:GLU:CB	2.43	0.48
1:EB:341:GLU:HB3	1:EB:344:GLU:HG2	1.95	0.48
1:IB:283:VAL:HG22	1:IB:301:VAL:HG12	1.95	0.48
1:IB:341:GLU:HB3	1:IB:344:GLU:HG2	1.95	0.48
1:IB:533:ASP:CG	1:IB:587:THR:HG1	2.13	0.48
1:IB:706:LEU:CD2	1:JB:697:SER:OG	2.62	0.48
1:IB:739:GLY:O	1:IB:743:GLN:HG3	2.13	0.48
1:JB:341:GLU:HB3	1:JB:344:GLU:HG2	1.95	0.48
1:KB:67:ARG:NH2	1:KB:71:SER:O	2.45	0.48
1:KB:739:GLY:O	1:KB:743:GLN:HG3	2.13	0.48
1:LB:279:ARG:HH22	1:MB:299:LYS:CD	2.17	0.48
1:LB:592:HIS:NE2	1:MB:530:GLU:C	2.67	0.48
1:LB:706:LEU:HD23	1:MB:697:SER:OG	2.02	0.48
1:MB:531:THR:HG23	1:MB:533:ASP:H	1.78	0.48
1:OB:341:GLU:HB3	1:OB:344:GLU:HG2	1.95	0.48
1:OB:404:SER:CA	1:PB:395:THR:O	2.60	0.48
1:OB:803:GLY:O	1:OB:807:ILE:HG22	2.14	0.48
1:PB:67:ARG:NH2	1:PB:71:SER:O	2.45	0.48
1:RB:250:LEU:HG	1:RB:312:PRO:HD3	1.95	0.48
1:RB:341:GLU:HB3	1:RB:344:GLU:HG2	1.95	0.48
1:SB:15:TYR:HB3	1:SB:30:VAL:HA	1.94	0.48
1:SB:283:VAL:HG22	1:SB:301:VAL:HG12	1.95	0.48
1:TB:181:GLU:HG2	1:TB:191:VAL:HG12	1.95	0.48
1:TB:184:ASP:HB3	1:TB:190:ARG:HG3	1.95	0.48
1:UB:571:ALA:HB2	1:UB:633:LEU:HD21	1.94	0.48
1:UB:652:ASP:HA	1:UB:655:GLN:HB2	1.94	0.48
1:UB:680:LEU:HB3	1:VB:675:HIS:HE1	1.79	0.48
1:WB:91:ARG:NH1	1:WB:94:GLN:OE1	2.39	0.48
1:WB:382:LEU:HD13	1:WB:387:GLY:HA2	1.94	0.48
1:XB:81:VAL:HG11	1:XB:100:TYR:HB3	1.94	0.48
1:XB:753:ILE:HG13	1:XB:756:GLU:CB	2.43	0.48
1:ZB:15:TYR:HB3	1:ZB:30:VAL:HA	1.94	0.48
1:ZB:504:ARG:HH22	1:ZB:524:THR:HG1	1.58	0.48
1:ZB:531:THR:HG23	1:ZB:533:ASP:H	1.79	0.48
1:ZB:652:ASP:HA	1:ZB:655:GLN:HB2	1.94	0.48
1:ZB:658:VAL:CG2	1:AC:534:HIS:HB3	2.40	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:797:GLU:HB2	1:D:792:ALA:HB1	1.94	0.48
1:C:67:ARG:NH2	1:C:71:SER:O	2.45	0.48
1:C:571:ALA:HB2	1:C:633:LEU:HD21	1.94	0.48
1:C:801:ALA:CB	1:E:796:LYS:CG	2.81	0.48
1:D:706:LEU:HD11	1:F:697:SER:HG	1.79	0.48
1:F:250:LEU:HG	1:F:312:PRO:HD3	1.95	0.48
1:F:803:GLY:O	1:F:807:ILE:HG22	2.14	0.48
1:G:67:ARG:NH2	1:G:71:SER:O	2.45	0.48
1:G:100:TYR:O	1:G:103:GLU:HB2	2.13	0.48
1:H:382:LEU:HD13	1:H:387:GLY:HA2	1.94	0.48
1:J:154:GLN:HB2	1:J:157:VAL:HG22	1.95	0.48
1:J:531:THR:HG23	1:J:533:ASP:H	1.79	0.48
1:K:91:ARG:NH1	1:K:94:GLN:OE1	2.39	0.48
1:K:531:THR:HG23	1:K:533:ASP:H	1.79	0.48
1:M:283:VAL:HG22	1:M:301:VAL:HG12	1.95	0.48
1:N:283:VAL:HG22	1:N:301:VAL:HG12	1.95	0.48
1:N:502:ALA:HB2	1:N:511:ARG:HB2	1.94	0.48
1:O:406:TYR:HH	1:O:412:GLU:CD	2.17	0.48
1:P:154:GLN:HB2	1:P:157:VAL:HG22	1.95	0.48
1:P:341:GLU:HB3	1:P:344:GLU:HG2	1.95	0.48
1:R:803:GLY:O	1:R:807:ILE:HG22	2.14	0.48
1:S:531:THR:HG23	1:S:533:ASP:H	1.78	0.48
1:V:288:MET:HG3	1:V:293:LYS:C	2.32	0.48
1:W:283:VAL:HG22	1:W:301:VAL:HG12	1.95	0.48
1:X:250:LEU:HG	1:X:312:PRO:HD3	1.95	0.48
1:Y:531:THR:HG23	1:Y:533:ASP:H	1.79	0.48
1:Z:531:THR:HG23	1:Z:533:ASP:H	1.78	0.48
1:AA:285:LEU:N	1:AA:315:ARG:O	2.41	0.48
1:BA:406:TYR:HH	1:BA:412:GLU:CD	2.16	0.48
1:CA:382:LEU:HD13	1:CA:387:GLY:HA2	1.94	0.48
1:DA:250:LEU:HG	1:DA:312:PRO:HD3	1.94	0.48
1:DA:542:ALA:HB3	1:DA:639:ASP:HB2	1.94	0.48
1:EA:531:THR:HG23	1:EA:533:ASP:H	1.78	0.48
1:EA:652:ASP:HA	1:EA:655:GLN:HB2	1.95	0.48
1:FA:502:ALA:HB2	1:FA:511:ARG:HB2	1.94	0.48
1:FA:531:THR:HG23	1:FA:533:ASP:H	1.79	0.48
1:FA:709:LEU:HA	1:FA:712:MET:HG3	1.95	0.48
1:IA:100:TYR:O	1:IA:103:GLU:HB2	2.13	0.48
1:JA:341:GLU:HB3	1:JA:344:GLU:HG2	1.95	0.48
1:KA:15:TYR:HB3	1:KA:30:VAL:HA	1.94	0.48
1:NA:739:GLY:O	1:NA:743:GLN:HG3	2.13	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:NA:803:GLY:O	1:NA:807:ILE:HG22	2.14	0.48
1:OA:100:TYR:O	1:OA:103:GLU:HB2	2.13	0.48
1:OA:382:LEU:HD13	1:OA:387:GLY:HA2	1.94	0.48
1:PA:100:TYR:O	1:PA:103:GLU:HB2	2.13	0.48
1:PA:283:VAL:HG22	1:PA:301:VAL:HG12	1.95	0.48
1:QA:531:THR:HG23	1:QA:533:ASP:H	1.78	0.48
1:QA:739:GLY:O	1:QA:743:GLN:HG3	2.13	0.48
1:RA:652:ASP:HA	1:RA:655:GLN:HB2	1.94	0.48
1:SA:382:LEU:HD13	1:SA:387:GLY:HA2	1.94	0.48
1:SA:652:ASP:HA	1:SA:655:GLN:HB2	1.95	0.48
1:TA:81:VAL:HG11	1:TA:100:TYR:HB3	1.94	0.48
1:TA:531:THR:HG23	1:TA:533:ASP:H	1.79	0.48
1:TA:709:LEU:HA	1:TA:712:MET:HG3	1.95	0.48
1:UA:181:GLU:HG2	1:UA:191:VAL:HG12	1.95	0.48
1:UA:682:GLN:OE1	1:UA:685:ARG:NH2	2.41	0.48
1:WA:502:ALA:HB2	1:WA:511:ARG:HB2	1.94	0.48
1:WA:571:ALA:HB2	1:WA:633:LEU:HD21	1.94	0.48
1:YA:652:ASP:HA	1:YA:655:GLN:HB2	1.94	0.48
1:ZA:803:GLY:O	1:ZA:807:ILE:HG22	2.14	0.48
1:AB:531:THR:HG23	1:AB:533:ASP:H	1.78	0.48
1:AB:739:GLY:O	1:AB:743:GLN:HG3	2.13	0.48
1:BB:757:ALA:CB	1:CB:748:ALA:CB	2.92	0.48
1:CB:15:TYR:HB3	1:CB:30:VAL:HA	1.94	0.48
1:CB:181:GLU:HG2	1:CB:191:VAL:HG12	1.95	0.48
1:CB:542:ALA:HB3	1:CB:639:ASP:HB2	1.94	0.48
1:EB:138:MET:SD	1:EB:139:ALA:N	2.86	0.48
1:EB:739:GLY:O	1:EB:743:GLN:HG3	2.13	0.48
1:FB:15:TYR:HB3	1:FB:30:VAL:HA	1.94	0.48
1:FB:100:TYR:O	1:FB:103:GLU:HB2	2.13	0.48
1:FB:250:LEU:HG	1:FB:312:PRO:HD3	1.95	0.48
1:FB:803:GLY:O	1:FB:807:ILE:HG22	2.14	0.48
1:GB:138:MET:SD	1:GB:139:ALA:N	2.85	0.48
1:GB:154:GLN:HB2	1:GB:157:VAL:HG22	1.95	0.48
1:IB:531:THR:HG23	1:IB:533:ASP:H	1.79	0.48
1:JB:283:VAL:HG22	1:JB:301:VAL:HG12	1.95	0.48
1:JB:739:GLY:O	1:JB:743:GLN:HG3	2.13	0.48
1:KB:204:TYR:OH	1:KB:210:GLU:OE2	2.30	0.48
1:LB:299:LYS:NZ	1:LB:317:GLU:OE2	2.32	0.48
1:MB:100:TYR:O	1:MB:103:GLU:HB2	2.13	0.48
1:MB:803:GLY:O	1:MB:807:ILE:HG22	2.14	0.48
1:OB:67:ARG:NH2	1:OB:71:SER:O	2.45	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:OB:100:TYR:O	1:OB:103:GLU:HB2	2.13	0.48
1:OB:364:GLU:H	1:PB:353:ALA:CB	2.24	0.48
1:OB:411:ASP:OD1	1:OB:411:ASP:N	2.42	0.48
1:PB:531:THR:HG23	1:PB:533:ASP:H	1.78	0.48
1:RB:652:ASP:HA	1:RB:655:GLN:CB	2.42	0.48
1:SB:184:ASP:HB3	1:SB:190:ARG:HG3	1.95	0.48
1:TB:406:TYR:HH	1:TB:412:GLU:CD	2.17	0.48
1:TB:640:VAL:H	1:UB:580:ARG:NH2	2.12	0.48
1:WB:768:MET:CE	1:XB:763:LYS:HA	2.43	0.48
1:XB:138:MET:SD	1:XB:139:ALA:N	2.85	0.48
1:AC:81:VAL:HG11	1:AC:100:TYR:HB3	1.94	0.48
1:AC:341:GLU:HB3	1:AC:344:GLU:HG2	1.95	0.48
1:A:716:VAL:HG21	1:C:708:GLU:CA	2.37	0.48
1:B:542:ALA:HB3	1:B:639:ASP:HB2	1.94	0.48
1:B:709:LEU:HA	1:B:712:MET:HG3	1.95	0.48
1:C:709:LEU:HA	1:C:712:MET:HG3	1.95	0.48
1:D:100:TYR:O	1:D:103:GLU:HB2	2.13	0.48
1:D:184:ASP:HB3	1:D:190:ARG:HG3	1.95	0.48
1:D:250:LEU:HG	1:D:312:PRO:HD3	1.95	0.48
1:E:803:GLY:O	1:E:807:ILE:HG22	2.14	0.48
1:G:15:TYR:HB3	1:G:30:VAL:HA	1.94	0.48
1:I:283:VAL:HG22	1:I:301:VAL:HG12	1.95	0.48
1:I:382:LEU:HD13	1:I:387:GLY:HA2	1.94	0.48
1:J:67:ARG:NH2	1:J:71:SER:O	2.45	0.48
1:L:154:GLN:HB2	1:L:157:VAL:HG22	1.95	0.48
1:L:196:TRP:HA	1:L:263:VAL:HG21	1.93	0.48
1:M:341:GLU:HB3	1:M:344:GLU:HG2	1.95	0.48
1:N:531:THR:HG23	1:N:533:ASP:H	1.79	0.48
1:O:803:GLY:O	1:O:807:ILE:HG22	2.14	0.48
1:P:204:TYR:OH	1:P:210:GLU:OE2	2.30	0.48
1:Q:250:LEU:HG	1:Q:312:PRO:HD3	1.94	0.48
1:S:100:TYR:O	1:S:103:GLU:HB2	2.13	0.48
1:S:283:VAL:HG22	1:S:301:VAL:HG12	1.95	0.48
1:S:341:GLU:HB3	1:S:344:GLU:HG2	1.95	0.48
1:T:753:ILE:HG13	1:T:756:GLU:CB	2.43	0.48
1:V:250:LEU:HG	1:V:312:PRO:HD3	1.94	0.48
1:V:406:TYR:HH	1:V:412:GLU:CD	2.16	0.48
1:W:67:ARG:NH2	1:W:71:SER:O	2.45	0.48
1:W:739:GLY:O	1:W:743:GLN:HG3	2.13	0.48
1:Y:739:GLY:O	1:Y:743:GLN:HG3	2.13	0.48
1:Z:709:LEU:HA	1:Z:712:MET:HG3	1.95	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:531:THR:HG23	1:AA:533:ASP:H	1.78	0.48
1:AA:803:GLY:O	1:AA:807:ILE:HG22	2.14	0.48
1:CA:81:VAL:HG11	1:CA:100:TYR:HB3	1.94	0.48
1:DA:15:TYR:HB3	1:DA:30:VAL:HA	1.94	0.48
1:DA:682:GLN:OE1	1:DA:685:ARG:NH2	2.41	0.48
1:EA:803:GLY:O	1:EA:807:ILE:HG22	2.14	0.48
1:JA:706:LEU:HD21	1:LA:693:ILE:HG23	1.95	0.48
1:KA:406:TYR:HH	1:KA:412:GLU:CD	2.16	0.48
1:LA:100:TYR:O	1:LA:103:GLU:HB2	2.13	0.48
1:MA:154:GLN:HB2	1:MA:157:VAL:HG22	1.95	0.48
1:MA:531:THR:HG23	1:MA:533:ASP:H	1.79	0.48
1:MA:803:GLY:O	1:MA:807:ILE:HG22	2.14	0.48
1:NA:382:LEU:HD13	1:NA:387:GLY:HA2	1.94	0.48
1:OA:154:GLN:HB2	1:OA:157:VAL:HG22	1.95	0.48
1:PA:531:THR:HG23	1:PA:533:ASP:H	1.79	0.48
1:PA:709:LEU:HA	1:PA:712:MET:HG3	1.95	0.48
1:QA:283:VAL:HG22	1:QA:301:VAL:HG12	1.95	0.48
1:RA:531:THR:HG23	1:RA:533:ASP:H	1.79	0.48
1:UA:502:ALA:HB2	1:UA:511:ARG:HB2	1.94	0.48
1:UA:542:ALA:HB3	1:UA:639:ASP:HB2	1.94	0.48
1:UA:803:GLY:O	1:UA:807:ILE:HG22	2.14	0.48
1:WA:299:LYS:NZ	1:WA:317:GLU:OE2	2.32	0.48
1:YA:154:GLN:HB2	1:YA:157:VAL:HG22	1.95	0.48
1:ZA:531:THR:HG23	1:ZA:533:ASP:H	1.78	0.48
1:BB:283:VAL:HG22	1:BB:301:VAL:HG12	1.95	0.48
1:BB:673:ALA:CB	1:CB:664:ILE:CD1	2.91	0.48
1:CB:100:TYR:O	1:CB:103:GLU:HB2	2.13	0.48
1:CB:739:GLY:O	1:CB:743:GLN:HG3	2.13	0.48
1:DB:341:GLU:HB3	1:DB:344:GLU:HG2	1.95	0.48
1:EB:181:GLU:HG2	1:EB:191:VAL:HG12	1.95	0.48
1:EB:571:ALA:HB2	1:EB:633:LEU:HD21	1.94	0.48
1:FB:341:GLU:HB3	1:FB:344:GLU:HG2	1.95	0.48
1:FB:542:ALA:HB3	1:FB:639:ASP:HB2	1.94	0.48
1:GB:250:LEU:HG	1:GB:312:PRO:HD3	1.95	0.48
1:HB:100:TYR:O	1:HB:103:GLU:HB2	2.13	0.48
1:HB:531:THR:HG23	1:HB:533:ASP:H	1.78	0.48
1:IB:803:GLY:O	1:IB:807:ILE:HG22	2.14	0.48
1:JB:250:LEU:HG	1:JB:312:PRO:HD3	1.94	0.48
1:JB:652:ASP:HA	1:JB:655:GLN:HB2	1.94	0.48
1:KB:531:THR:HG23	1:KB:533:ASP:H	1.79	0.48
1:LB:588:PHE:HE2	1:MB:534:HIS:HD2	1.53	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:LB:743:GLN:NE2	1:MB:734:ARG:HH21	2.07	0.48
1:MB:154:GLN:HB2	1:MB:157:VAL:HG22	1.95	0.48
1:MB:542:ALA:HB3	1:MB:639:ASP:HB2	1.94	0.48
1:MB:739:GLY:O	1:MB:743:GLN:HG3	2.13	0.48
1:NB:803:GLY:O	1:NB:807:ILE:HG22	2.14	0.48
1:OB:325:VAL:CG1	1:PB:337:LEU:HD22	2.43	0.48
1:OB:728:SER:HB2	1:PB:722:ALA:HB2	1.95	0.48
1:PB:250:LEU:HG	1:PB:312:PRO:HD3	1.95	0.48
1:PB:739:GLY:O	1:PB:743:GLN:HG3	2.13	0.48
1:SB:67:ARG:NH2	1:SB:71:SER:O	2.45	0.48
1:SB:531:THR:HG23	1:SB:533:ASP:H	1.78	0.48
1:SB:739:GLY:O	1:SB:743:GLN:HG3	2.13	0.48
1:TB:787:LEU:HD21	1:UB:781:VAL:CG1	2.42	0.48
1:UB:531:THR:HG23	1:UB:533:ASP:H	1.79	0.48
1:VB:184:ASP:HB3	1:VB:190:ARG:HG3	1.95	0.48
1:XB:382:LEU:HD13	1:XB:387:GLY:HA2	1.94	0.48
1:YB:709:LEU:HA	1:YB:712:MET:HG3	1.95	0.48
1:YB:754:GLU:HG2	1:ZB:744:ALA:HB1	1.95	0.48
1:ZB:742:LEU:CD2	1:AC:734:ARG:CZ	2.83	0.48
1:AC:100:TYR:O	1:AC:103:GLU:HB2	2.13	0.48
1:AC:299:LYS:NZ	1:AC:317:GLU:OE2	2.32	0.48
1:A:168:ILE:HD11	1:A:174:LEU:HB2	1.96	0.48
1:A:299:LYS:NZ	1:A:317:GLU:OE2	2.32	0.48
1:A:382:LEU:HD13	1:A:387:GLY:HA2	1.94	0.48
1:A:531:THR:HG23	1:A:533:ASP:H	1.79	0.48
1:A:720:GLY:N	1:C:711:ALA:HB1	2.24	0.48
1:C:181:GLU:HG2	1:C:191:VAL:HG12	1.95	0.48
1:D:15:TYR:HB3	1:D:30:VAL:HA	1.94	0.48
1:D:169:LYS:HD3	1:F:194:GLU:HG3	1.96	0.48
1:D:592:HIS:NE2	1:F:584:ALA:HB2	2.27	0.48
1:D:739:GLY:O	1:D:743:GLN:HG3	2.13	0.48
1:E:283:VAL:HG22	1:E:301:VAL:HG12	1.95	0.48
1:F:81:VAL:HG11	1:F:100:TYR:HB3	1.94	0.48
1:F:100:TYR:O	1:F:103:GLU:HB2	2.13	0.48
1:I:803:GLY:O	1:I:807:ILE:HG22	2.14	0.48
1:J:181:GLU:HG2	1:J:191:VAL:HG12	1.95	0.48
1:K:100:TYR:O	1:K:103:GLU:HB2	2.13	0.48
1:L:138:MET:N	1:L:141:ASP:OD2	2.36	0.48
1:L:382:LEU:HD13	1:L:387:GLY:HA2	1.94	0.48
1:L:803:GLY:O	1:L:807:ILE:HG22	2.14	0.48
1:M:739:GLY:O	1:M:743:GLN:HG3	2.13	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:O:181:GLU:HG2	1:O:191:VAL:HG12	1.95	0.48
1:O:204:TYR:OH	1:O:210:GLU:OE2	2.30	0.48
1:P:531:THR:HG23	1:P:533:ASP:H	1.78	0.48
1:S:15:TYR:HB3	1:S:30:VAL:HA	1.94	0.48
1:S:709:LEU:HA	1:S:712:MET:HG3	1.94	0.48
1:T:250:LEU:HG	1:T:312:PRO:HD3	1.94	0.48
1:X:184:ASP:HB3	1:X:190:ARG:HG3	1.95	0.48
1:Z:283:VAL:HG22	1:Z:301:VAL:HG12	1.95	0.48
1:AA:154:GLN:HB2	1:AA:157:VAL:HG22	1.95	0.48
1:AA:184:ASP:HB3	1:AA:190:ARG:HG3	1.95	0.48
1:BA:753:ILE:HG13	1:BA:756:GLU:CB	2.43	0.48
1:CA:283:VAL:HG22	1:CA:301:VAL:HG12	1.95	0.48
1:GA:250:LEU:HG	1:GA:312:PRO:HD3	1.95	0.48
1:GA:502:ALA:HB2	1:GA:511:ARG:HB2	1.94	0.48
1:GA:542:ALA:HB3	1:GA:639:ASP:HB2	1.94	0.48
1:HA:341:GLU:HB3	1:HA:344:GLU:HG2	1.95	0.48
1:IA:55:PRO:HB3	1:KA:86:ALA:O	2.13	0.48
1:KA:168:ILE:HD11	1:KA:174:LEU:HB2	1.96	0.48
1:KA:184:ASP:HB3	1:KA:190:ARG:HG3	1.95	0.48
1:LA:181:GLU:HG2	1:LA:191:VAL:HG12	1.95	0.48
1:LA:382:LEU:HD13	1:LA:387:GLY:HA2	1.94	0.48
1:LA:706:LEU:HD21	1:NA:693:ILE:HG23	1.95	0.48
1:MA:100:TYR:O	1:MA:103:GLU:HB2	2.13	0.48
1:MA:542:ALA:HB3	1:MA:639:ASP:HB2	1.94	0.48
1:PA:181:GLU:HG2	1:PA:191:VAL:HG12	1.95	0.48
1:PA:739:GLY:O	1:PA:743:GLN:HG3	2.13	0.48
1:PA:803:GLY:O	1:PA:807:ILE:HG22	2.14	0.48
1:QA:154:GLN:HB2	1:QA:157:VAL:HG22	1.95	0.48
1:RA:803:GLY:O	1:RA:807:ILE:HG22	2.14	0.48
1:TA:382:LEU:HD13	1:TA:387:GLY:HA2	1.94	0.48
1:TA:713:SER:OG	1:VA:703:ARG:HG2	2.14	0.48
1:UA:406:TYR:HH	1:UA:412:GLU:CD	2.17	0.48
1:WA:652:ASP:HA	1:WA:655:GLN:HB2	1.94	0.48
1:WA:803:GLY:O	1:WA:807:ILE:HG22	2.14	0.48
1:YA:181:GLU:HG2	1:YA:191:VAL:HG12	1.95	0.48
1:AB:803:GLY:O	1:AB:807:ILE:HG22	2.14	0.48
1:BB:154:GLN:HB2	1:BB:157:VAL:HG22	1.95	0.48
1:BB:250:LEU:HG	1:BB:312:PRO:HD3	1.94	0.48
1:CB:803:GLY:O	1:CB:807:ILE:HG22	2.14	0.48
1:DB:283:VAL:HG22	1:DB:301:VAL:HG12	1.95	0.48
1:FB:184:ASP:HB3	1:FB:190:ARG:HG3	1.95	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:FB:502:ALA:HB2	1:FB:511:ARG:HB2	1.94	0.48
1:GB:184:ASP:HB3	1:GB:190:ARG:HG3	1.95	0.48
1:JB:181:GLU:HG2	1:JB:191:VAL:HG12	1.95	0.48
1:MB:709:LEU:HA	1:MB:712:MET:HG3	1.95	0.48
1:NB:542:ALA:HB3	1:NB:639:ASP:HB2	1.94	0.48
1:OB:181:GLU:HG2	1:OB:191:VAL:HG12	1.95	0.48
1:OB:182:CYS:O	1:OB:190:ARG:N	2.35	0.48
1:PB:184:ASP:HB3	1:PB:190:ARG:HG3	1.95	0.48
1:QB:204:TYR:OH	1:QB:210:GLU:OE2	2.30	0.48
1:QB:382:LEU:HD13	1:QB:387:GLY:HA2	1.94	0.48
1:RB:531:THR:HG23	1:RB:533:ASP:H	1.79	0.48
1:RB:739:GLY:O	1:RB:743:GLN:HG3	2.13	0.48
1:SB:81:VAL:HG11	1:SB:100:TYR:HB3	1.94	0.48
1:TB:154:GLN:HB2	1:TB:157:VAL:HG22	1.95	0.48
1:TB:283:VAL:HG22	1:TB:301:VAL:HG12	1.95	0.48
1:TB:709:LEU:HA	1:TB:712:MET:HG3	1.95	0.48
1:UB:640:VAL:O	1:VB:580:ARG:NH2	2.47	0.48
1:XB:100:TYR:O	1:XB:103:GLU:HB2	2.13	0.48
1:XB:181:GLU:HG2	1:XB:191:VAL:HG12	1.95	0.48
1:XB:739:GLY:O	1:XB:743:GLN:HG3	2.13	0.48
1:YB:502:ALA:HB2	1:YB:511:ARG:HB2	1.94	0.48
1:ZB:181:GLU:HG2	1:ZB:191:VAL:HG12	1.95	0.48
1:ZB:184:ASP:HB3	1:ZB:190:ARG:HG3	1.95	0.48
1:ZB:709:LEU:HA	1:ZB:712:MET:HG3	1.95	0.48
1:ZB:803:GLY:O	1:ZB:807:ILE:HG22	2.14	0.48
1:AC:803:GLY:O	1:AC:807:ILE:HG22	2.14	0.48
1:A:712:MET:CE	1:C:704:LYS:CG	2.91	0.48
1:A:739:GLY:O	1:A:743:GLN:HG3	2.13	0.48
1:B:803:GLY:O	1:B:807:ILE:HG22	2.14	0.48
1:C:786:GLN:HB2	1:E:781:VAL:HG21	1.96	0.48
1:D:9:ARG:CZ	1:F:24:ASN:HD21	2.25	0.48
1:D:16:ILE:HD12	1:D:43:VAL:HG23	1.96	0.48
1:D:32:PRO:HD3	1:F:76:ASP:CG	2.34	0.48
1:F:154:GLN:HB2	1:F:157:VAL:HG22	1.95	0.48
1:F:739:GLY:O	1:F:743:GLN:HG3	2.13	0.48
1:H:406:TYR:HH	1:H:412:GLU:CD	2.17	0.48
1:K:709:LEU:HA	1:K:712:MET:HG3	1.95	0.48
1:L:181:GLU:HG2	1:L:191:VAL:HG12	1.95	0.48
1:L:406:TYR:HH	1:L:412:GLU:CD	2.17	0.48
1:L:531:THR:HG23	1:L:533:ASP:H	1.79	0.48
1:M:406:TYR:HH	1:M:412:GLU:CD	2.17	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:P:168:ILE:HD11	1:P:174:LEU:HB2	1.96	0.48
1:R:181:GLU:HG2	1:R:191:VAL:HG12	1.95	0.48
1:R:283:VAL:HG22	1:R:301:VAL:HG12	1.95	0.48
1:S:168:ILE:HD11	1:S:174:LEU:HB2	1.96	0.48
1:T:341:GLU:HB3	1:T:344:GLU:HG2	1.95	0.48
1:T:591:PHE:CD1	1:T:598:ILE:HD11	2.42	0.48
1:T:652:ASP:HA	1:T:655:GLN:HB2	1.94	0.48
1:V:181:GLU:HG2	1:V:191:VAL:HG12	1.95	0.48
1:W:168:ILE:HD11	1:W:174:LEU:HB2	1.96	0.48
1:W:250:LEU:HG	1:W:312:PRO:HD3	1.95	0.48
1:W:587:THR:HG1	1:W:588:PHE:N	2.12	0.48
1:X:67:ARG:NH2	1:X:71:SER:O	2.45	0.48
1:Y:341:GLU:HB3	1:Y:344:GLU:HG2	1.95	0.48
1:Y:709:LEU:HA	1:Y:712:MET:HG3	1.95	0.48
1:BA:739:GLY:O	1:BA:743:GLN:HG3	2.13	0.48
1:CA:100:TYR:O	1:CA:103:GLU:HB2	2.13	0.48
1:CA:181:GLU:HG2	1:CA:191:VAL:HG12	1.95	0.48
1:CA:531:THR:HG23	1:CA:533:ASP:H	1.79	0.48
1:CA:739:GLY:O	1:CA:743:GLN:HG3	2.13	0.48
1:CA:803:GLY:O	1:CA:807:ILE:HG22	2.14	0.48
1:DA:184:ASP:HB3	1:DA:190:ARG:HG3	1.95	0.48
1:DA:803:GLY:O	1:DA:807:ILE:HG22	2.14	0.48
1:EA:91:ARG:NH1	1:EA:94:GLN:OE1	2.38	0.48
1:EA:181:GLU:HG2	1:EA:191:VAL:HG12	1.95	0.48
1:EA:283:VAL:HG22	1:EA:301:VAL:HG12	1.95	0.48
1:EA:341:GLU:HB3	1:EA:344:GLU:HG2	1.95	0.48
1:FA:181:GLU:HG2	1:FA:191:VAL:HG12	1.95	0.48
1:GA:100:TYR:O	1:GA:103:GLU:HB2	2.13	0.48
1:IA:250:LEU:HG	1:IA:312:PRO:HD3	1.95	0.48
1:IA:283:VAL:HG22	1:IA:301:VAL:HG12	1.95	0.48
1:JA:250:LEU:HG	1:JA:312:PRO:HD3	1.95	0.48
1:MA:168:ILE:HD11	1:MA:174:LEU:HB2	1.96	0.48
1:NA:652:ASP:HA	1:NA:655:GLN:HB2	1.94	0.48
1:OA:803:GLY:O	1:OA:807:ILE:HG22	2.14	0.48
1:QA:67:ARG:NH2	1:QA:71:SER:O	2.45	0.48
1:QA:250:LEU:HG	1:QA:312:PRO:HD3	1.95	0.48
1:QA:285:LEU:N	1:QA:315:ARG:O	2.41	0.48
1:QA:341:GLU:HB3	1:QA:344:GLU:HG2	1.95	0.48
1:QA:382:LEU:HD13	1:QA:387:GLY:HA2	1.94	0.48
1:SA:181:GLU:HG2	1:SA:191:VAL:HG12	1.95	0.48
1:SA:502:ALA:HB2	1:SA:511:ARG:HB2	1.94	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:TA:100:TYR:O	1:TA:103:GLU:HB2	2.13	0.48
1:TA:542:ALA:HB3	1:TA:639:ASP:HB2	1.94	0.48
1:TA:595:SER:CB	1:VA:580:ARG:HH12	2.25	0.48
1:UA:15:TYR:HB3	1:UA:30:VAL:HA	1.94	0.48
1:UA:706:LEU:CD2	1:WA:693:ILE:HG23	2.43	0.48
1:VA:184:ASP:HB3	1:VA:190:ARG:HG3	1.95	0.48
1:VA:411:ASP:N	1:VA:411:ASP:OD1	2.42	0.48
1:WA:168:ILE:HD11	1:WA:174:LEU:HB2	1.96	0.48
1:WA:341:GLU:HB3	1:WA:344:GLU:HG2	1.95	0.48
1:YA:100:TYR:O	1:YA:103:GLU:HB2	2.13	0.48
1:ZA:341:GLU:HB3	1:ZA:344:GLU:HG2	1.95	0.48
1:ZA:382:LEU:HD13	1:ZA:387:GLY:HA2	1.94	0.48
1:AB:283:VAL:HG22	1:AB:301:VAL:HG12	1.95	0.48
1:AB:341:GLU:HB3	1:AB:344:GLU:HG2	1.95	0.48
1:AB:502:ALA:HB2	1:AB:511:ARG:HB2	1.94	0.48
1:AB:591:PHE:CD1	1:AB:598:ILE:HD11	2.42	0.48
1:BB:739:GLY:O	1:BB:743:GLN:HG3	2.13	0.48
1:CB:138:MET:SD	1:CB:139:ALA:N	2.86	0.48
1:DB:652:ASP:HA	1:DB:655:GLN:HB2	1.94	0.48
1:EB:803:GLY:O	1:EB:807:ILE:HG22	2.14	0.48
1:HB:181:GLU:HG2	1:HB:191:VAL:HG12	1.95	0.48
1:IB:181:GLU:HG2	1:IB:191:VAL:HG12	1.95	0.48
1:IB:184:ASP:HB3	1:IB:190:ARG:HG3	1.95	0.48
1:KB:181:GLU:HG2	1:KB:191:VAL:HG12	1.95	0.48
1:KB:709:LEU:HA	1:KB:712:MET:HG3	1.95	0.48
1:LB:100:TYR:O	1:LB:103:GLU:HB2	2.13	0.48
1:LB:533:ASP:CG	1:LB:587:THR:HG1	2.12	0.48
1:LB:670:GLU:CB	1:MB:664:ILE:CG2	2.92	0.48
1:OB:406:TYR:HH	1:OB:412:GLU:CD	2.16	0.48
1:PB:341:GLU:HB3	1:PB:344:GLU:HG2	1.95	0.48
1:QB:652:ASP:HA	1:QB:655:GLN:HB2	1.94	0.48
1:RB:154:GLN:HB2	1:RB:157:VAL:HG22	1.95	0.48
1:TB:100:TYR:O	1:TB:103:GLU:HB2	2.13	0.48
1:TB:341:GLU:HB3	1:TB:344:GLU:HG2	1.95	0.48
1:TB:739:GLY:O	1:TB:743:GLN:HG3	2.13	0.48
1:TB:803:GLY:O	1:TB:807:ILE:HG22	2.14	0.48
1:UB:100:TYR:O	1:UB:103:GLU:HB2	2.13	0.48
1:UB:709:LEU:HA	1:UB:712:MET:HG3	1.95	0.48
1:WB:753:ILE:HG13	1:WB:756:GLU:CB	2.43	0.48
1:YB:168:ILE:HD11	1:YB:174:LEU:HB2	1.96	0.48
1:YB:542:ALA:HB3	1:YB:639:ASP:HB2	1.94	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:ZB:154:GLN:HB2	1:ZB:157:VAL:HG22	1.95	0.48
1:ZB:735:ILE:HG22	1:AC:726:ALA:O	2.13	0.48
1:ZB:739:GLY:O	1:ZB:743:GLN:HG3	2.13	0.48
1:A:15:TYR:HB3	1:A:30:VAL:HA	1.94	0.48
1:A:716:VAL:HG21	1:C:708:GLU:CG	2.39	0.48
1:B:382:LEU:HD13	1:B:387:GLY:HA2	1.94	0.48
1:C:753:ILE:HG21	1:E:745:LYS:HE3	1.94	0.48
1:D:204:TYR:OH	1:D:210:GLU:OE2	2.30	0.48
1:D:223:GLU:CD	1:F:293:LYS:HA	2.33	0.48
1:D:753:ILE:HG13	1:D:756:GLU:CB	2.43	0.48
1:E:753:ILE:HG13	1:E:756:GLU:CB	2.43	0.48
1:E:790:VAL:HG22	1:G:785:GLN:HB2	1.96	0.48
1:F:533:ASP:CG	1:F:587:THR:HG1	2.14	0.48
1:F:810:LEU:HA	1:H:811:ALA:HB1	1.95	0.48
1:G:154:GLN:HB2	1:G:157:VAL:HG22	1.95	0.48
1:G:168:ILE:HD11	1:G:174:LEU:HB2	1.96	0.48
1:G:250:LEU:HG	1:G:312:PRO:HD3	1.94	0.48
1:H:154:GLN:HB2	1:H:157:VAL:HG22	1.95	0.48
1:H:181:GLU:HG2	1:H:191:VAL:HG12	1.95	0.48
1:H:739:GLY:O	1:H:743:GLN:HG3	2.13	0.48
1:J:168:ILE:HD11	1:J:174:LEU:HB2	1.96	0.48
1:L:184:ASP:HB3	1:L:190:ARG:HG3	1.95	0.48
1:M:168:ILE:HD11	1:M:174:LEU:HB2	1.96	0.48
1:M:655:GLN:HA	1:M:658:VAL:HG23	1.96	0.48
1:N:591:PHE:CD1	1:N:598:ILE:HD11	2.42	0.48
1:O:184:ASP:HB3	1:O:190:ARG:HG3	1.95	0.48
1:Q:803:GLY:O	1:Q:807:ILE:HG22	2.14	0.48
1:S:250:LEU:HG	1:S:312:PRO:HD3	1.95	0.48
1:S:406:TYR:HH	1:S:412:GLU:CD	2.16	0.48
1:S:502:ALA:HB2	1:S:511:ARG:HB2	1.94	0.48
1:V:341:GLU:HB3	1:V:344:GLU:HG2	1.95	0.48
1:V:739:GLY:O	1:V:743:GLN:HG3	2.13	0.48
1:W:652:ASP:HA	1:W:655:GLN:HB2	1.94	0.48
1:X:655:GLN:HA	1:X:658:VAL:HG23	1.96	0.48
1:Y:283:VAL:HG22	1:Y:301:VAL:HG12	1.95	0.48
1:Y:655:GLN:HA	1:Y:658:VAL:HG23	1.96	0.48
1:EA:168:ILE:HD11	1:EA:174:LEU:HB2	1.96	0.48
1:HA:181:GLU:HG2	1:HA:191:VAL:HG12	1.95	0.48
1:HA:531:THR:HG23	1:HA:533:ASP:H	1.79	0.48
1:IA:169:LYS:CE	1:KA:194:GLU:HA	2.43	0.48
1:IA:753:ILE:HG13	1:IA:756:GLU:CB	2.43	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:KA:341:GLU:HB3	1:KA:344:GLU:HG2	1.95	0.48
1:LA:154:GLN:HB2	1:LA:157:VAL:HG22	1.95	0.48
1:LA:652:ASP:HA	1:LA:655:GLN:HB2	1.94	0.48
1:NA:709:LEU:HA	1:NA:712:MET:HG3	1.95	0.48
1:PA:168:ILE:HD11	1:PA:174:LEU:HB2	1.96	0.48
1:QA:502:ALA:HB2	1:QA:511:ARG:HB2	1.94	0.48
1:RA:278:PRO:HD3	1:TA:297:GLY:O	2.13	0.48
1:RA:341:GLU:HB3	1:RA:344:GLU:HG2	1.95	0.48
1:SA:531:THR:HG23	1:SA:533:ASP:H	1.79	0.48
1:TA:168:ILE:HD11	1:TA:174:LEU:HB2	1.96	0.48
1:TA:341:GLU:HB3	1:TA:344:GLU:HG2	1.95	0.48
1:VA:406:TYR:HH	1:VA:412:GLU:CD	2.16	0.48
1:VA:739:GLY:O	1:VA:743:GLN:HG3	2.13	0.48
1:WA:655:GLN:HA	1:WA:658:VAL:HG23	1.96	0.48
1:XA:803:GLY:O	1:XA:807:ILE:HG22	2.14	0.48
1:YA:16:ILE:HD12	1:YA:43:VAL:HG23	1.96	0.48
1:ZA:181:GLU:HG2	1:ZA:191:VAL:HG12	1.95	0.48
1:BB:803:GLY:O	1:BB:807:ILE:HG22	2.14	0.48
1:CB:16:ILE:HD12	1:CB:43:VAL:HG23	1.96	0.48
1:CB:531:THR:HG23	1:CB:533:ASP:H	1.79	0.48
1:DB:67:ARG:NH2	1:DB:71:SER:O	2.45	0.48
1:DB:100:TYR:O	1:DB:103:GLU:HB2	2.13	0.48
1:DB:181:GLU:HG2	1:DB:191:VAL:HG12	1.95	0.48
1:FB:662:ILE:HD12	1:GB:654:LEU:CG	2.43	0.48
1:FB:709:LEU:HA	1:FB:712:MET:HG3	1.95	0.48
1:GB:181:GLU:HG2	1:GB:191:VAL:HG12	1.95	0.48
1:GB:283:VAL:HG22	1:GB:301:VAL:HG12	1.95	0.48
1:HB:168:ILE:HD11	1:HB:174:LEU:HB2	1.96	0.48
1:IB:382:LEU:HD13	1:IB:387:GLY:HA2	1.94	0.48
1:KB:168:ILE:HD11	1:KB:174:LEU:HB2	1.96	0.48
1:KB:283:VAL:HG22	1:KB:301:VAL:HG12	1.95	0.48
1:LB:204:TYR:OH	1:LB:210:GLU:OE2	2.30	0.48
1:LB:803:GLY:O	1:LB:807:ILE:HG22	2.14	0.48
1:MB:16:ILE:HD12	1:MB:43:VAL:HG23	1.96	0.48
1:OB:168:ILE:HD11	1:OB:174:LEU:HB2	1.96	0.48
1:OB:810:LEU:CB	1:PB:811:ALA:CB	2.92	0.48
1:QB:100:TYR:O	1:QB:103:GLU:HB2	2.13	0.48
1:QB:154:GLN:HB2	1:QB:157:VAL:HG22	1.95	0.48
1:RB:655:GLN:HA	1:RB:658:VAL:HG23	1.96	0.48
1:SB:709:LEU:HD13	1:TB:701:LYS:HG2	1.94	0.48
1:SB:753:ILE:HG13	1:SB:756:GLU:CB	2.43	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:UB:181:GLU:HG2	1:UB:191:VAL:HG12	1.95	0.48
1:UB:735:ILE:CG2	1:VB:730:ALA:HA	2.39	0.48
1:VB:168:ILE:HD11	1:VB:174:LEU:HB2	1.96	0.48
1:WB:181:GLU:HG2	1:WB:191:VAL:HG12	1.95	0.48
1:WB:250:LEU:HG	1:WB:312:PRO:HD3	1.95	0.48
1:WB:531:THR:HG23	1:WB:533:ASP:H	1.78	0.48
1:XB:168:ILE:HD11	1:XB:174:LEU:HB2	1.96	0.48
1:YB:67:ARG:NH2	1:YB:71:SER:O	2.45	0.48
1:YB:406:TYR:HH	1:YB:412:GLU:CD	2.16	0.48
1:ZB:168:ILE:HD11	1:ZB:174:LEU:HB2	1.96	0.48
1:ZB:283:VAL:HG22	1:ZB:301:VAL:HG12	1.95	0.48
1:ZB:746:LEU:CB	1:AC:737:GLY:HA2	2.43	0.48
1:ZB:753:ILE:CG2	1:AC:744:ALA:HA	2.43	0.48
1:AC:531:THR:HG23	1:AC:533:ASP:H	1.78	0.48
1:A:236:LYS:HE3	1:A:236:LYS:HB2	1.77	0.48
1:A:655:GLN:HA	1:A:658:VAL:HG23	1.96	0.48
1:A:709:LEU:HA	1:A:712:MET:HG3	1.95	0.48
1:A:717:GLU:HB2	1:C:707:LEU:CD1	2.41	0.48
1:B:168:ILE:HD11	1:B:174:LEU:HB2	1.96	0.48
1:B:531:THR:HG23	1:B:533:ASP:H	1.79	0.48
1:C:709:LEU:HD13	1:E:701:LYS:HG2	1.96	0.48
1:C:743:GLN:NE2	1:E:733:ALA:HB1	2.29	0.48
1:C:801:ALA:HB3	1:E:796:LYS:HB2	1.94	0.48
1:D:669:GLN:NE2	1:F:661:ALA:HB2	2.24	0.48
1:D:709:LEU:HA	1:D:712:MET:HG3	1.95	0.48
1:E:181:GLU:HG2	1:E:191:VAL:HG12	1.95	0.48
1:G:531:THR:HG23	1:G:533:ASP:H	1.79	0.48
1:H:285:LEU:N	1:H:315:ARG:O	2.41	0.48
1:H:803:GLY:O	1:H:807:ILE:HG22	2.14	0.48
1:K:39:ASP:OD1	1:UB:38:GLN:N	2.47	0.48
1:N:81:VAL:HG11	1:N:100:TYR:HB3	1.94	0.48
1:P:542:ALA:HB3	1:P:639:ASP:HB2	1.94	0.48
1:T:154:GLN:HB2	1:T:157:VAL:HG22	1.95	0.48
1:V:154:GLN:HB2	1:V:157:VAL:HG22	1.95	0.48
1:Z:803:GLY:O	1:Z:807:ILE:HG22	2.14	0.48
1:AA:16:ILE:HD12	1:AA:43:VAL:HG23	1.96	0.48
1:AA:100:TYR:O	1:AA:103:GLU:HB2	2.13	0.48
1:AA:542:ALA:HB3	1:AA:639:ASP:HB2	1.94	0.48
1:CA:406:TYR:HH	1:CA:412:GLU:CD	2.16	0.48
1:DA:100:TYR:O	1:DA:103:GLU:HB2	2.13	0.48
1:EA:739:GLY:O	1:EA:743:GLN:HG3	2.13	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:FA:81:VAL:HG11	1:FA:100:TYR:HB3	1.94	0.48
1:FA:382:LEU:HD13	1:FA:387:GLY:HA2	1.94	0.48
1:FA:803:GLY:O	1:FA:807:ILE:HG22	2.14	0.48
1:GA:739:GLY:O	1:GA:743:GLN:HG3	2.13	0.48
1:IA:184:ASP:HB3	1:IA:190:ARG:HG3	1.95	0.48
1:IA:341:GLU:HB3	1:IA:344:GLU:HG2	1.95	0.48
1:IA:706:LEU:CD2	1:KA:693:ILE:CG2	2.84	0.48
1:JA:184:ASP:HB3	1:JA:190:ARG:HG3	1.95	0.48
1:JA:739:GLY:O	1:JA:743:GLN:HG3	2.13	0.48
1:LA:91:ARG:NH1	1:LA:94:GLN:OE1	2.39	0.48
1:MA:652:ASP:HA	1:MA:655:GLN:HB2	1.94	0.48
1:RA:283:VAL:HG22	1:RA:301:VAL:HG12	1.95	0.48
1:SA:16:ILE:HD12	1:SA:43:VAL:HG23	1.96	0.48
1:TA:803:GLY:O	1:TA:807:ILE:HG22	2.14	0.48
1:WA:739:GLY:O	1:WA:743:GLN:HG3	2.13	0.48
1:ZA:283:VAL:HG22	1:ZA:301:VAL:HG12	1.95	0.48
1:BB:655:GLN:HA	1:BB:658:VAL:HG23	1.96	0.48
1:BB:684:ALA:CB	1:CB:675:HIS:ND1	2.76	0.48
1:CB:341:GLU:HB3	1:CB:344:GLU:HG2	1.95	0.48
1:DB:406:TYR:HH	1:DB:412:GLU:CD	2.16	0.48
1:EB:655:GLN:HA	1:EB:658:VAL:HG23	1.96	0.48
1:GB:67:ARG:NH2	1:GB:71:SER:O	2.45	0.48
1:MB:184:ASP:HB3	1:MB:190:ARG:HG3	1.95	0.48
1:MB:382:LEU:HD13	1:MB:387:GLY:HA2	1.94	0.48
1:MB:652:ASP:HA	1:MB:655:GLN:HB2	1.94	0.48
1:MB:724:ALA:HB1	1:NB:714:MET:HE1	1.95	0.48
1:OB:702:ALA:CB	1:PB:693:ILE:HG22	2.41	0.48
1:PB:283:VAL:HG22	1:PB:301:VAL:HG12	1.95	0.48
1:PB:587:THR:HG1	1:PB:588:PHE:N	2.11	0.48
1:TB:680:LEU:HB2	1:UB:675:HIS:CE1	2.48	0.48
1:TB:783:LYS:CG	1:UB:777:LEU:HD11	2.42	0.48
1:VB:181:GLU:HG2	1:VB:191:VAL:HG12	1.95	0.48
1:VB:299:LYS:NZ	1:VB:317:GLU:OE2	2.32	0.48
1:WB:154:GLN:HB2	1:WB:157:VAL:HG22	1.95	0.48
1:WB:168:ILE:HD11	1:WB:174:LEU:HB2	1.96	0.48
1:WB:341:GLU:HB3	1:WB:344:GLU:HG2	1.95	0.48
1:WB:803:GLY:O	1:WB:807:ILE:HG22	2.14	0.48
1:XB:531:THR:HG23	1:XB:533:ASP:H	1.78	0.48
1:YB:283:VAL:HG22	1:YB:301:VAL:HG12	1.95	0.48
1:AC:168:ILE:HD11	1:AC:174:LEU:HB2	1.96	0.48
1:A:717:GLU:N	1:C:707:LEU:HB3	2.29	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:341:GLU:HB3	1:C:344:GLU:HG2	1.95	0.48
1:C:743:GLN:NE2	1:E:734:ARG:NH2	2.53	0.48
1:C:798:MET:CB	1:E:792:ALA:HB1	2.44	0.48
1:D:406:TYR:HH	1:D:412:GLU:CD	2.16	0.48
1:F:341:GLU:HB3	1:F:344:GLU:HG2	1.95	0.48
1:J:679:ARG:HH11	1:J:679:ARG:HG2	1.79	0.48
1:K:181:GLU:HG2	1:K:191:VAL:HG12	1.95	0.48
1:L:100:TYR:O	1:L:103:GLU:HB2	2.13	0.48
1:L:168:ILE:HD11	1:L:174:LEU:HB2	1.96	0.48
1:L:224:LYS:HG3	1:N:296:LEU:HD21	1.95	0.48
1:O:16:ILE:HD12	1:O:43:VAL:HG23	1.96	0.48
1:O:341:GLU:HB3	1:O:344:GLU:HG2	1.95	0.48
1:O:739:GLY:O	1:O:743:GLN:HG3	2.13	0.48
1:P:803:GLY:O	1:P:807:ILE:HG22	2.14	0.48
1:Q:341:GLU:HB3	1:Q:344:GLU:HG2	1.95	0.48
1:Q:739:GLY:O	1:Q:743:GLN:HG3	2.13	0.48
1:R:16:ILE:HD12	1:R:43:VAL:HG23	1.96	0.48
1:R:154:GLN:HB2	1:R:157:VAL:HG22	1.95	0.48
1:T:283:VAL:HG22	1:T:301:VAL:HG12	1.95	0.48
1:V:168:ILE:HD11	1:V:174:LEU:HB2	1.96	0.48
1:V:299:LYS:NZ	1:V:317:GLU:OE2	2.32	0.48
1:X:91:ARG:NH1	1:X:94:GLN:OE1	2.39	0.48
1:X:154:GLN:HB2	1:X:157:VAL:HG22	1.95	0.48
1:Z:16:ILE:HD12	1:Z:43:VAL:HG23	1.96	0.48
1:AA:181:GLU:HG2	1:AA:191:VAL:HG12	1.95	0.48
1:AA:739:GLY:O	1:AA:743:GLN:HG3	2.13	0.48
1:BA:16:ILE:HD12	1:BA:43:VAL:HG23	1.96	0.48
1:BA:154:GLN:HB2	1:BA:157:VAL:HG22	1.95	0.48
1:DA:709:LEU:HA	1:DA:712:MET:HG3	1.95	0.48
1:FA:168:ILE:HD11	1:FA:174:LEU:HB2	1.96	0.48
1:GA:283:VAL:HG22	1:GA:301:VAL:HG12	1.95	0.48
1:GA:591:PHE:CD1	1:GA:598:ILE:HD11	2.42	0.48
1:JA:16:ILE:HD12	1:JA:43:VAL:HG23	1.96	0.48
1:JA:591:PHE:CD1	1:JA:598:ILE:HD11	2.42	0.48
1:KA:100:TYR:O	1:KA:103:GLU:HB2	2.13	0.48
1:KA:283:VAL:HG22	1:KA:301:VAL:HG12	1.95	0.48
1:LA:531:THR:HG23	1:LA:533:ASP:H	1.78	0.48
1:PA:655:GLN:HA	1:PA:658:VAL:HG23	1.96	0.48
1:SA:100:TYR:O	1:SA:103:GLU:HB2	2.13	0.48
1:SA:184:ASP:HB3	1:SA:190:ARG:HG3	1.95	0.48
1:SA:803:GLY:O	1:SA:807:ILE:HG22	2.14	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:VA:753:ILE:HG13	1:VA:756:GLU:CB	2.43	0.48
1:VA:803:GLY:O	1:VA:807:ILE:HG22	2.14	0.48
1:XA:100:TYR:O	1:XA:103:GLU:HB2	2.13	0.48
1:XA:181:GLU:HG2	1:XA:191:VAL:HG12	1.95	0.48
1:YA:406:TYR:HH	1:YA:412:GLU:CD	2.17	0.48
1:ZA:100:TYR:O	1:ZA:103:GLU:HB2	2.13	0.48
1:ZA:168:ILE:HD11	1:ZA:174:LEU:HB2	1.96	0.48
1:BB:168:ILE:HD11	1:BB:174:LEU:HB2	1.96	0.48
1:GB:168:ILE:HD11	1:GB:174:LEU:HB2	1.96	0.48
1:GB:341:GLU:HB3	1:GB:344:GLU:HG2	1.95	0.48
1:HB:154:GLN:HB2	1:HB:157:VAL:HG22	1.95	0.48
1:HB:341:GLU:HB3	1:HB:344:GLU:HG2	1.95	0.48
1:HB:803:GLY:O	1:HB:807:ILE:HG22	2.14	0.48
1:IB:204:TYR:OH	1:IB:210:GLU:OE2	2.30	0.48
1:JB:531:THR:HG23	1:JB:533:ASP:H	1.79	0.48
1:KB:382:LEU:HD13	1:KB:387:GLY:HA2	1.94	0.48
1:LB:154:GLN:HB2	1:LB:157:VAL:HG22	1.95	0.48
1:LB:168:ILE:HD11	1:LB:174:LEU:HB2	1.96	0.48
1:LB:724:ALA:HB1	1:MB:715:ALA:CA	2.13	0.48
1:MB:591:PHE:CD1	1:MB:598:ILE:HD11	2.42	0.48
1:OB:95:ASP:CB	1:PB:85:HIS:CE1	2.90	0.48
1:OB:257:GLU:CB	1:PB:245:THR:OG1	2.59	0.48
1:OB:680:LEU:C	1:PB:675:HIS:CE1	2.86	0.48
1:PB:168:ILE:HD11	1:PB:174:LEU:HB2	1.96	0.48
1:RB:533:ASP:CG	1:RB:587:THR:HG1	2.15	0.48
1:UB:168:ILE:HD11	1:UB:174:LEU:HB2	1.96	0.48
1:UB:757:ALA:HB1	1:VB:751:LEU:C	2.32	0.48
1:WB:328:GLU:HG2	1:XB:394:LYS:HG3	1.95	0.48
1:YB:181:GLU:HG2	1:YB:191:VAL:HG12	1.95	0.48
1:A:700:GLU:CD	1:NB:710:GLU:HG3	2.34	0.47
1:A:803:GLY:O	1:A:807:ILE:HG22	2.14	0.47
1:C:168:ILE:HD11	1:C:174:LEU:HB2	1.96	0.47
1:C:739:GLY:O	1:C:743:GLN:HG3	2.13	0.47
1:D:9:ARG:CZ	1:F:24:ASN:CG	2.74	0.47
1:D:51:VAL:CG2	1:F:85:HIS:O	2.54	0.47
1:D:168:ILE:HD11	1:D:174:LEU:HB2	1.96	0.47
1:D:224:LYS:CE	1:F:294:ASN:ND2	2.77	0.47
1:E:100:TYR:O	1:E:103:GLU:HB2	2.13	0.47
1:F:181:GLU:HG2	1:F:191:VAL:HG12	1.95	0.47
1:G:406:TYR:HH	1:G:412:GLU:CD	2.16	0.47
1:G:655:GLN:HA	1:G:658:VAL:HG23	1.96	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:655:GLN:HA	1:L:658:VAL:HG23	1.96	0.47
1:N:739:GLY:O	1:N:743:GLN:HG3	2.13	0.47
1:O:250:LEU:HG	1:O:312:PRO:HD3	1.95	0.47
1:Q:679:ARG:HH11	1:Q:679:ARG:HG2	1.79	0.47
1:R:100:TYR:O	1:R:103:GLU:HB2	2.13	0.47
1:R:184:ASP:HB3	1:R:190:ARG:HG3	1.95	0.47
1:S:181:GLU:HG2	1:S:191:VAL:HG12	1.95	0.47
1:T:406:TYR:HH	1:T:412:GLU:CD	2.16	0.47
1:V:100:TYR:O	1:V:103:GLU:HB2	2.13	0.47
1:Y:168:ILE:HD11	1:Y:174:LEU:HB2	1.96	0.47
1:BA:204:TYR:OH	1:BA:210:GLU:OE2	2.30	0.47
1:CA:299:LYS:NZ	1:CA:317:GLU:OE2	2.32	0.47
1:DA:67:ARG:NH2	1:DA:71:SER:O	2.45	0.47
1:DA:204:TYR:OH	1:DA:210:GLU:OE2	2.30	0.47
1:EA:655:GLN:HA	1:EA:658:VAL:HG23	1.96	0.47
1:GA:204:TYR:OH	1:GA:210:GLU:OE2	2.30	0.47
1:GA:341:GLU:HB3	1:GA:344:GLU:HG2	1.95	0.47
1:GA:709:LEU:HA	1:GA:712:MET:HG3	1.95	0.47
1:HA:168:ILE:HD11	1:HA:174:LEU:HB2	1.96	0.47
1:JA:803:GLY:O	1:JA:807:ILE:HG22	2.14	0.47
1:LA:406:TYR:HH	1:LA:412:GLU:CD	2.17	0.47
1:NA:655:GLN:HA	1:NA:658:VAL:HG23	1.96	0.47
1:QA:100:TYR:O	1:QA:103:GLU:HB2	2.13	0.47
1:QA:753:ILE:HG13	1:QA:756:GLU:CB	2.43	0.47
1:TA:753:ILE:HG13	1:TA:756:GLU:CB	2.43	0.47
1:UA:168:ILE:HD11	1:UA:174:LEU:HB2	1.96	0.47
1:VA:16:ILE:HD12	1:VA:43:VAL:HG23	1.96	0.47
1:VA:168:ILE:HD11	1:VA:174:LEU:HB2	1.96	0.47
1:XA:531:THR:HG23	1:XA:533:ASP:H	1.78	0.47
1:XA:768:MET:HE3	1:ZA:763:LYS:HB2	1.96	0.47
1:YA:184:ASP:HB3	1:YA:190:ARG:HG3	1.95	0.47
1:ZA:679:ARG:HH11	1:ZA:679:ARG:HG2	1.79	0.47
1:ZA:716:VAL:HG21	1:BB:708:GLU:HG2	1.96	0.47
1:BB:341:GLU:HB3	1:BB:344:GLU:HG2	1.95	0.47
1:CB:285:LEU:N	1:CB:315:ARG:O	2.41	0.47
1:DB:184:ASP:HB3	1:DB:190:ARG:HG3	1.95	0.47
1:DB:709:LEU:HA	1:DB:712:MET:HG3	1.95	0.47
1:EB:283:VAL:HG22	1:EB:301:VAL:HG12	1.95	0.47
1:FB:138:MET:N	1:FB:141:ASP:OD2	2.36	0.47
1:FB:739:GLY:O	1:FB:743:GLN:HG3	2.13	0.47
1:IB:518:LEU:HA	1:IB:547:PHE:HD2	1.79	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:JB:385:ASN:ND2	1:KB:473:TYR:O	2.47	0.47
1:KB:803:GLY:O	1:KB:807:ILE:HG22	2.14	0.47
1:LB:592:HIS:CD2	1:MB:531:THR:C	2.86	0.47
1:LB:709:LEU:HA	1:LB:712:MET:HG3	1.95	0.47
1:NB:283:VAL:HG22	1:NB:301:VAL:HG12	1.95	0.47
1:NB:531:THR:HG23	1:NB:533:ASP:H	1.79	0.47
1:OB:518:LEU:HA	1:OB:547:PHE:HD2	1.79	0.47
1:OB:531:THR:HG23	1:OB:533:ASP:H	1.79	0.47
1:OB:655:GLN:HG2	1:PB:649:ARG:CD	2.27	0.47
1:OB:682:GLN:OE1	1:OB:685:ARG:NH2	2.41	0.47
1:RB:181:GLU:HG2	1:RB:191:VAL:HG12	1.95	0.47
1:RB:673:ALA:HB1	1:SB:664:ILE:HB	1.95	0.47
1:RB:709:LEU:HA	1:RB:712:MET:HG3	1.95	0.47
1:SB:250:LEU:HG	1:SB:312:PRO:HD3	1.95	0.47
1:SB:655:GLN:HA	1:SB:658:VAL:HG23	1.96	0.47
1:TB:250:LEU:HG	1:TB:312:PRO:HD3	1.95	0.47
1:TB:682:GLN:OE1	1:TB:685:ARG:NH2	2.41	0.47
1:VB:639:ASP:HB3	1:WB:577:SER:HB3	1.95	0.47
1:WB:285:LEU:N	1:WB:315:ARG:O	2.41	0.47
1:XB:154:GLN:HB2	1:XB:157:VAL:HG22	1.95	0.47
1:YB:100:TYR:O	1:YB:103:GLU:HB2	2.13	0.47
1:ZB:236:LYS:HB2	1:ZB:236:LYS:HE3	1.77	0.47
1:A:177:ARG:HH11	1:A:193:GLY:HA2	1.80	0.47
1:A:715:ALA:HA	1:NB:724:ALA:HB1	1.95	0.47
1:A:723:LYS:NZ	1:C:715:ALA:HB1	2.30	0.47
1:A:768:MET:SD	1:C:759:LEU:HG	2.54	0.47
1:A:779:LEU:HD21	1:C:770:LEU:C	2.34	0.47
1:A:779:LEU:HD22	1:C:774:ARG:N	2.29	0.47
1:A:790:VAL:CG1	1:C:785:GLN:N	2.77	0.47
1:B:518:LEU:HA	1:B:547:PHE:HD2	1.80	0.47
1:B:785:GLN:NE2	1:AC:793:LYS:HZ2	2.05	0.47
1:C:250:LEU:HG	1:C:312:PRO:HD3	1.95	0.47
1:C:652:ASP:HA	1:C:655:GLN:HB2	1.94	0.47
1:D:279:ARG:NH2	1:F:369:ALA:CB	2.74	0.47
1:D:803:GLY:O	1:D:807:ILE:HG22	2.14	0.47
1:E:16:ILE:HD12	1:E:43:VAL:HG23	1.96	0.47
1:E:724:ALA:CB	1:G:715:ALA:HA	2.44	0.47
1:F:16:ILE:HD12	1:F:43:VAL:HG23	1.96	0.47
1:G:283:VAL:HG22	1:G:301:VAL:HG12	1.95	0.47
1:G:341:GLU:HB3	1:G:344:GLU:HG2	1.95	0.47
1:G:803:GLY:O	1:G:807:ILE:HG22	2.14	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:753:ILE:HG13	1:H:756:GLU:CB	2.43	0.47
1:I:184:ASP:HB3	1:I:190:ARG:HG3	1.95	0.47
1:K:154:GLN:HB2	1:K:157:VAL:HG22	1.95	0.47
1:K:168:ILE:HD11	1:K:174:LEU:HB2	1.96	0.47
1:M:100:TYR:O	1:M:103:GLU:HB2	2.13	0.47
1:M:803:GLY:O	1:M:807:ILE:HG22	2.14	0.47
1:P:518:LEU:HA	1:P:547:PHE:HD2	1.80	0.47
1:S:803:GLY:O	1:S:807:ILE:HG22	2.14	0.47
1:T:739:GLY:O	1:T:743:GLN:HG3	2.13	0.47
1:T:803:GLY:O	1:T:807:ILE:HG22	2.14	0.47
1:V:753:ILE:HG13	1:V:756:GLU:CB	2.43	0.47
1:V:803:GLY:O	1:V:807:ILE:HG22	2.14	0.47
1:W:531:THR:HG23	1:W:533:ASP:H	1.78	0.47
1:Y:16:ILE:HD12	1:Y:43:VAL:HG23	1.96	0.47
1:BA:655:GLN:HA	1:BA:658:VAL:HG23	1.96	0.47
1:CA:67:ARG:NH2	1:CA:71:SER:O	2.45	0.47
1:CA:184:ASP:HB3	1:CA:190:ARG:HG3	1.95	0.47
1:EA:679:ARG:HH11	1:EA:679:ARG:HG2	1.80	0.47
1:FA:154:GLN:HB2	1:FA:157:VAL:HG22	1.95	0.47
1:FA:679:ARG:HH11	1:FA:679:ARG:HG2	1.79	0.47
1:GA:518:LEU:HA	1:GA:547:PHE:HD2	1.80	0.47
1:GA:531:THR:HG23	1:GA:533:ASP:H	1.79	0.47
1:GA:803:GLY:O	1:GA:807:ILE:HG22	2.14	0.47
1:IA:169:LYS:NZ	1:KA:194:GLU:CG	2.76	0.47
1:IA:484:PRO:O	1:KA:473:TYR:CE1	2.67	0.47
1:IA:679:ARG:HH11	1:IA:679:ARG:HG2	1.79	0.47
1:JA:100:TYR:O	1:JA:103:GLU:HB2	2.13	0.47
1:JA:168:ILE:HD11	1:JA:174:LEU:HB2	1.96	0.47
1:KA:181:GLU:HG2	1:KA:191:VAL:HG12	1.95	0.47
1:KA:250:LEU:HG	1:KA:312:PRO:HD3	1.94	0.47
1:KA:518:LEU:HA	1:KA:547:PHE:HD2	1.80	0.47
1:KA:652:ASP:HA	1:KA:655:GLN:HB2	1.95	0.47
1:KA:803:GLY:O	1:KA:807:ILE:HG22	2.14	0.47
1:MA:679:ARG:HH11	1:MA:679:ARG:HG2	1.79	0.47
1:OA:682:GLN:OE1	1:OA:685:ARG:NH2	2.41	0.47
1:QA:655:GLN:HA	1:QA:658:VAL:HG23	1.96	0.47
1:RA:739:GLY:O	1:RA:743:GLN:HG3	2.13	0.47
1:TA:67:ARG:NH2	1:TA:71:SER:O	2.45	0.47
1:UA:100:TYR:O	1:UA:103:GLU:HB2	2.13	0.47
1:WA:177:ARG:HH11	1:WA:193:GLY:HA2	1.80	0.47
1:XA:154:GLN:HB2	1:XA:157:VAL:HG22	1.95	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:XA:177:ARG:HH11	1:XA:193:GLY:HA2	1.79	0.47
1:CB:91:ARG:NH1	1:CB:94:GLN:OE1	2.39	0.47
1:EB:100:TYR:O	1:EB:103:GLU:HB2	2.13	0.47
1:EB:168:ILE:HD11	1:EB:174:LEU:HB2	1.96	0.47
1:EB:679:ARG:HH11	1:EB:679:ARG:HG2	1.79	0.47
1:GB:518:LEU:HA	1:GB:547:PHE:HD2	1.79	0.47
1:GB:679:ARG:HH11	1:GB:679:ARG:HG2	1.79	0.47
1:GB:739:GLY:O	1:GB:743:GLN:HG3	2.13	0.47
1:HB:283:VAL:HG22	1:HB:301:VAL:HG12	1.95	0.47
1:IB:679:ARG:HH11	1:IB:679:ARG:HG2	1.79	0.47
1:JB:100:TYR:O	1:JB:103:GLU:HB2	2.13	0.47
1:JB:790:VAL:HG13	1:KB:788:ALA:CB	2.44	0.47
1:LB:655:GLN:HA	1:LB:658:VAL:HG23	1.96	0.47
1:LB:679:ARG:HH11	1:LB:679:ARG:HG2	1.80	0.47
1:LB:728:SER:HB3	1:MB:719:THR:CA	2.43	0.47
1:OB:790:VAL:CG2	1:PB:788:ALA:HB2	2.44	0.47
1:PB:655:GLN:HA	1:PB:658:VAL:HG23	1.96	0.47
1:QB:16:ILE:HD12	1:QB:43:VAL:HG23	1.96	0.47
1:QB:177:ARG:HH11	1:QB:193:GLY:HA2	1.80	0.47
1:QB:518:LEU:HA	1:QB:547:PHE:HD2	1.79	0.47
1:SB:16:ILE:HD12	1:SB:43:VAL:HG23	1.96	0.47
1:SB:168:ILE:HD11	1:SB:174:LEU:HB2	1.96	0.47
1:TB:592:HIS:CB	1:UB:534:HIS:CE1	2.92	0.47
1:UB:655:GLN:HA	1:UB:658:VAL:HG23	1.96	0.47
1:UB:679:ARG:HH11	1:UB:679:ARG:HG2	1.79	0.47
1:XB:285:LEU:N	1:XB:315:ARG:O	2.41	0.47
1:YB:204:TYR:OH	1:YB:210:GLU:OE2	2.30	0.47
1:YB:679:ARG:HH11	1:YB:679:ARG:HG2	1.79	0.47
1:AC:177:ARG:HH11	1:AC:193:GLY:HA2	1.80	0.47
1:AC:283:VAL:HG22	1:AC:301:VAL:HG12	1.95	0.47
1:AC:382:LEU:HD13	1:AC:387:GLY:HA2	1.94	0.47
1:B:381:PRO:HB2	1:D:396:GLY:HA3	1.95	0.47
1:C:16:ILE:HD12	1:C:43:VAL:HG23	1.96	0.47
1:C:177:ARG:HH11	1:C:193:GLY:HA2	1.80	0.47
1:E:154:GLN:HB2	1:E:157:VAL:HG22	1.95	0.47
1:E:184:ASP:HB3	1:E:190:ARG:HG3	1.95	0.47
1:E:204:TYR:OH	1:E:210:GLU:OE2	2.30	0.47
1:H:679:ARG:HH11	1:H:679:ARG:HG2	1.79	0.47
1:I:16:ILE:HD12	1:I:43:VAL:HG23	1.96	0.47
1:J:177:ARG:HH11	1:J:193:GLY:HA2	1.80	0.47
1:J:518:LEU:HA	1:J:547:PHE:HD2	1.80	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:518:LEU:HA	1:L:547:PHE:HD2	1.79	0.47
1:M:518:LEU:HA	1:M:547:PHE:HD2	1.80	0.47
1:N:709:LEU:HA	1:N:712:MET:HG3	1.95	0.47
1:O:177:ARG:HH11	1:O:193:GLY:HA2	1.80	0.47
1:P:283:VAL:HG22	1:P:301:VAL:HG12	1.95	0.47
1:P:753:ILE:HG13	1:P:756:GLU:CB	2.43	0.47
1:R:168:ILE:HD11	1:R:174:LEU:HB2	1.96	0.47
1:R:518:LEU:HA	1:R:547:PHE:HD2	1.80	0.47
1:R:531:THR:HG23	1:R:533:ASP:H	1.79	0.47
1:R:679:ARG:HH11	1:R:679:ARG:HG2	1.80	0.47
1:W:100:TYR:O	1:W:103:GLU:HB2	2.13	0.47
1:X:341:GLU:HB3	1:X:344:GLU:HG2	1.95	0.47
1:X:406:TYR:HH	1:X:412:GLU:CD	2.16	0.47
1:X:803:GLY:O	1:X:807:ILE:HG22	2.14	0.47
1:Y:753:ILE:HG13	1:Y:756:GLU:CB	2.43	0.47
1:AA:679:ARG:HH11	1:AA:679:ARG:HG2	1.79	0.47
1:BA:100:TYR:O	1:BA:103:GLU:HB2	2.13	0.47
1:BA:177:ARG:HH11	1:BA:193:GLY:HA2	1.80	0.47
1:CA:518:LEU:HA	1:CA:547:PHE:HD2	1.80	0.47
1:DA:655:GLN:HA	1:DA:658:VAL:HG23	1.96	0.47
1:EA:177:ARG:HH11	1:EA:193:GLY:HA2	1.80	0.47
1:EA:518:LEU:HA	1:EA:547:PHE:HD2	1.80	0.47
1:FA:177:ARG:HH11	1:FA:193:GLY:HA2	1.80	0.47
1:GA:168:ILE:HD11	1:GA:174:LEU:HB2	1.96	0.47
1:HA:803:GLY:O	1:HA:807:ILE:HG22	2.14	0.47
1:IA:803:GLY:O	1:IA:807:ILE:HG22	2.14	0.47
1:KA:531:THR:HG23	1:KA:533:ASP:H	1.79	0.47
1:OA:341:GLU:HB3	1:OA:344:GLU:HG2	1.95	0.47
1:PA:154:GLN:HB2	1:PA:157:VAL:HG22	1.95	0.47
1:PA:177:ARG:HH11	1:PA:193:GLY:HA2	1.79	0.47
1:QA:16:ILE:HD12	1:QA:43:VAL:HG23	1.96	0.47
1:TA:177:ARG:HH11	1:TA:193:GLY:HA2	1.80	0.47
1:TA:283:VAL:HG22	1:TA:301:VAL:HG12	1.95	0.47
1:UA:518:LEU:HA	1:UA:547:PHE:HD2	1.79	0.47
1:VA:154:GLN:HB2	1:VA:157:VAL:HG22	1.95	0.47
1:WA:100:TYR:O	1:WA:103:GLU:HB2	2.13	0.47
1:WA:518:LEU:HA	1:WA:547:PHE:HD2	1.80	0.47
1:XA:283:VAL:HG22	1:XA:301:VAL:HG12	1.95	0.47
1:YA:679:ARG:HH11	1:YA:679:ARG:HG2	1.79	0.47
1:ZA:682:GLN:OE1	1:ZA:685:ARG:NH2	2.41	0.47
1:AB:181:GLU:HG2	1:AB:191:VAL:HG12	1.95	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:BB:100:TYR:O	1:BB:103:GLU:HB2	2.13	0.47
1:CB:154:GLN:HB2	1:CB:157:VAL:HG22	1.95	0.47
1:EB:531:THR:HG23	1:EB:533:ASP:H	1.78	0.47
1:FB:299:LYS:NZ	1:FB:317:GLU:OE2	2.32	0.47
1:FB:518:LEU:HA	1:FB:547:PHE:HD2	1.79	0.47
1:FB:753:ILE:HG13	1:FB:756:GLU:CB	2.43	0.47
1:GB:204:TYR:OH	1:GB:210:GLU:OE2	2.30	0.47
1:HB:250:LEU:HG	1:HB:312:PRO:HD3	1.95	0.47
1:HB:518:LEU:HA	1:HB:547:PHE:HD2	1.80	0.47
1:IB:100:TYR:O	1:IB:103:GLU:HB2	2.13	0.47
1:IB:168:ILE:HD11	1:IB:174:LEU:HB2	1.96	0.47
1:JB:285:LEU:N	1:JB:315:ARG:O	2.41	0.47
1:KB:154:GLN:HB2	1:KB:157:VAL:HG22	1.95	0.47
1:KB:679:ARG:HH11	1:KB:679:ARG:HG2	1.80	0.47
1:LB:16:ILE:HD12	1:LB:43:VAL:HG23	1.96	0.47
1:LB:250:LEU:HG	1:LB:312:PRO:HD3	1.94	0.47
1:LB:728:SER:HB2	1:MB:718:SER:O	2.14	0.47
1:OB:679:ARG:HH11	1:OB:679:ARG:HG2	1.79	0.47
1:PB:16:ILE:HD12	1:PB:43:VAL:HG23	1.96	0.47
1:PB:100:TYR:O	1:PB:103:GLU:HB2	2.13	0.47
1:RB:283:VAL:HG22	1:RB:301:VAL:HG12	1.95	0.47
1:RB:406:TYR:HH	1:RB:412:GLU:CD	2.18	0.47
1:TB:16:ILE:HD12	1:TB:43:VAL:HG23	1.96	0.47
1:UB:67:ARG:NH2	1:UB:71:SER:O	2.45	0.47
1:UB:753:ILE:HG13	1:UB:756:GLU:CB	2.43	0.47
1:VB:531:THR:HG23	1:VB:533:ASP:H	1.78	0.47
1:XB:283:VAL:HG22	1:XB:301:VAL:HG12	1.95	0.47
1:YB:184:ASP:HB3	1:YB:190:ARG:HG3	1.95	0.47
1:YB:753:ILE:HG13	1:YB:756:GLU:CB	2.43	0.47
1:ZB:299:LYS:NZ	1:ZB:317:GLU:OE2	2.32	0.47
1:AC:753:ILE:HG13	1:AC:756:GLU:CB	2.43	0.47
1:A:764:LYS:C	1:C:759:LEU:HD13	2.29	0.47
1:B:16:ILE:HD12	1:B:43:VAL:HG23	1.96	0.47
1:B:654:LEU:HD22	1:D:534:HIS:NE2	2.29	0.47
1:B:679:ARG:HH11	1:B:679:ARG:HG2	1.79	0.47
1:B:757:ALA:HB2	1:D:748:ALA:CA	2.43	0.47
1:C:655:GLN:HA	1:C:658:VAL:HG23	1.96	0.47
1:D:382:LEU:CA	1:F:396:GLY:HA3	2.45	0.47
1:E:531:THR:HG23	1:E:533:ASP:H	1.79	0.47
1:F:184:ASP:HB3	1:F:190:ARG:HG3	1.95	0.47
1:G:224:LYS:HD2	1:I:296:LEU:CD1	2.38	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:411:ASP:N	1:G:411:ASP:OD1	2.42	0.47
1:G:739:GLY:O	1:G:743:GLN:HG3	2.13	0.47
1:H:652:ASP:HA	1:H:655:GLN:HB2	1.94	0.47
1:I:177:ARG:HH11	1:I:193:GLY:HA2	1.80	0.47
1:K:739:GLY:O	1:K:743:GLN:HG3	2.13	0.47
1:L:341:GLU:HB3	1:L:344:GLU:HG2	1.95	0.47
1:M:67:ARG:NH2	1:M:71:SER:O	2.45	0.47
1:M:706:LEU:HD11	1:O:693:ILE:HD12	1.95	0.47
1:M:753:ILE:HG13	1:M:756:GLU:CB	2.43	0.47
1:Q:154:GLN:HB2	1:Q:157:VAL:HG22	1.95	0.47
1:Q:542:ALA:HB3	1:Q:639:ASP:HB2	1.94	0.47
1:R:32:PRO:CB	1:T:24:ASN:HB2	2.41	0.47
1:R:299:LYS:NZ	1:R:317:GLU:OE2	2.32	0.47
1:S:155:LYS:HG2	1:S:156:GLU:OE1	2.15	0.47
1:T:100:TYR:O	1:T:103:GLU:HB2	2.13	0.47
1:X:155:LYS:HG2	1:X:156:GLU:OE1	2.15	0.47
1:X:591:PHE:CD1	1:X:598:ILE:HD11	2.42	0.47
1:Y:803:GLY:O	1:Y:807:ILE:HG22	2.14	0.47
1:Z:739:GLY:O	1:Z:743:GLN:HG3	2.13	0.47
1:DA:181:GLU:HG2	1:DA:191:VAL:HG12	1.95	0.47
1:EA:100:TYR:O	1:EA:103:GLU:HB2	2.13	0.47
1:GA:655:GLN:HA	1:GA:658:VAL:HG23	1.96	0.47
1:HA:155:LYS:HG2	1:HA:156:GLU:OE1	2.15	0.47
1:IA:518:LEU:HA	1:IA:547:PHE:HD2	1.80	0.47
1:JA:154:GLN:HB2	1:JA:157:VAL:HG22	1.95	0.47
1:KA:177:ARG:HH11	1:KA:193:GLY:HA2	1.80	0.47
1:LA:155:LYS:HG2	1:LA:156:GLU:OE1	2.15	0.47
1:MA:155:LYS:HG2	1:MA:156:GLU:OE1	2.15	0.47
1:NA:285:LEU:N	1:NA:315:ARG:O	2.41	0.47
1:PA:184:ASP:HB3	1:PA:190:ARG:HG3	1.95	0.47
1:PA:679:ARG:HH11	1:PA:679:ARG:HG2	1.79	0.47
1:RA:155:LYS:HG2	1:RA:156:GLU:OE1	2.15	0.47
1:SA:739:GLY:O	1:SA:743:GLN:HG3	2.13	0.47
1:TA:518:LEU:HA	1:TA:547:PHE:HD2	1.79	0.47
1:TA:655:GLN:HA	1:TA:658:VAL:HG23	1.96	0.47
1:XA:16:ILE:HD12	1:XA:43:VAL:HG23	1.96	0.47
1:XA:406:TYR:HH	1:XA:412:GLU:CD	2.17	0.47
1:XA:739:GLY:O	1:XA:743:GLN:HG3	2.13	0.47
1:ZA:250:LEU:HG	1:ZA:312:PRO:HD3	1.95	0.47
1:ZA:652:ASP:HA	1:ZA:655:GLN:HB2	1.94	0.47
1:BB:16:ILE:HD12	1:BB:43:VAL:HG23	1.96	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:BB:204:TYR:OH	1:BB:210:GLU:OE2	2.30	0.47
1:CB:679:ARG:HH11	1:CB:679:ARG:HG2	1.79	0.47
1:DB:16:ILE:HD12	1:DB:43:VAL:HG23	1.96	0.47
1:DB:803:GLY:O	1:DB:807:ILE:HG22	2.14	0.47
1:EB:518:LEU:HA	1:EB:547:PHE:HD2	1.80	0.47
1:FB:654:LEU:CD1	1:GB:534:HIS:HD2	1.74	0.47
1:GB:803:GLY:O	1:GB:807:ILE:HG22	2.14	0.47
1:HB:177:ARG:HH11	1:HB:193:GLY:HA2	1.80	0.47
1:HB:184:ASP:HB3	1:HB:190:ARG:HG3	1.95	0.47
1:IB:406:TYR:HH	1:IB:412:GLU:CD	2.18	0.47
1:IB:728:SER:HA	1:JB:719:THR:HA	1.97	0.47
1:KB:100:TYR:O	1:KB:103:GLU:HB2	2.13	0.47
1:KB:518:LEU:HA	1:KB:547:PHE:HD2	1.80	0.47
1:KB:753:ILE:HG13	1:KB:756:GLU:CB	2.43	0.47
1:LB:91:ARG:NH1	1:LB:94:GLN:OE1	2.39	0.47
1:LB:181:GLU:HG2	1:LB:191:VAL:HG12	1.95	0.47
1:LB:283:VAL:HG22	1:LB:301:VAL:HG12	1.95	0.47
1:LB:713:SER:HB2	1:MB:704:LYS:CA	2.44	0.47
1:NB:16:ILE:HD12	1:NB:43:VAL:HG23	1.96	0.47
1:NB:707:LEU:HD23	1:NB:707:LEU:HA	1.74	0.47
1:NB:709:LEU:HA	1:NB:712:MET:HG3	1.95	0.47
1:OB:222:THR:CG2	1:PB:248:GLU:OE2	2.62	0.47
1:OB:283:VAL:HG22	1:OB:301:VAL:HG12	1.95	0.47
1:OB:404:SER:HA	1:PB:395:THR:O	2.15	0.47
1:OB:695:ASP:OD2	1:PB:686:GLY:HA3	2.13	0.47
1:OB:739:GLY:O	1:OB:743:GLN:HG3	2.13	0.47
1:QB:679:ARG:HH11	1:QB:679:ARG:HG2	1.79	0.47
1:RB:168:ILE:HD11	1:RB:174:LEU:HB2	1.96	0.47
1:RB:518:LEU:HA	1:RB:547:PHE:HD2	1.79	0.47
1:RB:803:GLY:O	1:RB:807:ILE:HG22	2.14	0.47
1:SB:679:ARG:HH11	1:SB:679:ARG:HG2	1.79	0.47
1:SB:707:LEU:HA	1:SB:707:LEU:HD23	1.74	0.47
1:TB:531:THR:HG23	1:TB:533:ASP:H	1.79	0.47
1:UB:803:GLY:O	1:UB:807:ILE:HG22	2.14	0.47
1:VB:283:VAL:HG22	1:VB:301:VAL:HG12	1.95	0.47
1:WB:177:ARG:HH11	1:WB:193:GLY:HA2	1.80	0.47
1:YB:531:THR:HG23	1:YB:533:ASP:H	1.78	0.47
1:ZB:177:ARG:HH11	1:ZB:193:GLY:HA2	1.80	0.47
1:ZB:655:GLN:HA	1:ZB:658:VAL:HG23	1.96	0.47
1:AC:679:ARG:HH11	1:AC:679:ARG:HG2	1.79	0.47
1:AC:739:GLY:O	1:AC:743:GLN:HG3	2.13	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:744:ALA:CA	1:NB:754:GLU:HG2	2.45	0.47
1:A:764:LYS:CA	1:C:759:LEU:HD13	2.39	0.47
1:B:177:ARG:HH11	1:B:193:GLY:HA2	1.79	0.47
1:B:505:PRO:HA	1:B:526:VAL:HG12	1.97	0.47
1:C:518:LEU:HA	1:C:547:PHE:HD2	1.80	0.47
1:C:531:THR:HG23	1:C:533:ASP:H	1.78	0.47
1:C:679:ARG:HH11	1:C:679:ARG:HG2	1.80	0.47
1:C:739:GLY:CA	1:E:734:ARG:NH1	2.78	0.47
1:C:753:ILE:HG13	1:C:756:GLU:CB	2.43	0.47
1:D:154:GLN:HB2	1:D:157:VAL:HG22	1.95	0.47
1:D:518:LEU:HA	1:D:547:PHE:HD2	1.80	0.47
1:D:706:LEU:HD13	1:F:697:SER:OG	2.13	0.47
1:F:177:ARG:HH11	1:F:193:GLY:HA2	1.80	0.47
1:G:518:LEU:HA	1:G:547:PHE:HD2	1.80	0.47
1:H:155:LYS:HG2	1:H:156:GLU:OE1	2.15	0.47
1:I:531:THR:HG23	1:I:533:ASP:H	1.79	0.47
1:J:655:GLN:HA	1:J:658:VAL:HG23	1.96	0.47
1:K:655:GLN:HA	1:K:658:VAL:HG23	1.96	0.47
1:L:273:ILE:HG21	1:N:296:LEU:HD22	1.95	0.47
1:L:798:MET:CE	1:N:795:PHE:CE2	2.97	0.47
1:M:155:LYS:HG2	1:M:156:GLU:OE1	2.15	0.47
1:N:177:ARG:HH11	1:N:193:GLY:HA2	1.80	0.47
1:N:679:ARG:HH11	1:N:679:ARG:HG2	1.80	0.47
1:N:803:GLY:O	1:N:807:ILE:HG22	2.14	0.47
1:P:236:LYS:HE3	1:P:236:LYS:HB2	1.77	0.47
1:Q:16:ILE:HD12	1:Q:43:VAL:HG23	1.96	0.47
1:Q:168:ILE:HD11	1:Q:174:LEU:HB2	1.96	0.47
1:R:177:ARG:HH11	1:R:193:GLY:HA2	1.80	0.47
1:R:655:GLN:HA	1:R:658:VAL:HG23	1.96	0.47
1:R:720:GLY:HA3	1:T:711:ALA:HB1	1.97	0.47
1:T:679:ARG:HH11	1:T:679:ARG:HG2	1.79	0.47
1:V:55:PRO:HD3	1:X:86:ALA:O	2.15	0.47
1:W:177:ARG:HH11	1:W:193:GLY:HA2	1.80	0.47
1:W:341:GLU:HB3	1:W:344:GLU:HG2	1.95	0.47
1:X:181:GLU:HG2	1:X:191:VAL:HG12	1.95	0.47
1:Y:154:GLN:HB2	1:Y:157:VAL:HG22	1.95	0.47
1:Y:204:TYR:OH	1:Y:210:GLU:OE2	2.30	0.47
1:BA:803:GLY:O	1:BA:807:ILE:HG22	2.14	0.47
1:EA:184:ASP:HB3	1:EA:190:ARG:HG3	1.95	0.47
1:FA:655:GLN:HA	1:FA:658:VAL:HG23	1.96	0.47
1:GA:138:MET:N	1:GA:141:ASP:OD2	2.36	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:IA:728:SER:HA	1:KA:719:THR:HA	1.96	0.47
1:LA:16:ILE:HD12	1:LA:43:VAL:HG23	1.96	0.47
1:LA:177:ARG:HH11	1:LA:193:GLY:HA2	1.80	0.47
1:NA:168:ILE:HD11	1:NA:174:LEU:HB2	1.96	0.47
1:OA:16:ILE:HD12	1:OA:43:VAL:HG23	1.96	0.47
1:OA:531:THR:HG23	1:OA:533:ASP:H	1.79	0.47
1:OA:753:ILE:HG13	1:OA:756:GLU:CB	2.43	0.47
1:RA:679:ARG:HH11	1:RA:679:ARG:HG2	1.79	0.47
1:SA:177:ARG:HH11	1:SA:193:GLY:HA2	1.79	0.47
1:UA:786:GLN:O	1:UA:790:VAL:HG23	2.15	0.47
1:VA:100:TYR:O	1:VA:103:GLU:HB2	2.13	0.47
1:VA:531:THR:HG23	1:VA:533:ASP:H	1.79	0.47
1:WA:679:ARG:HH11	1:WA:679:ARG:HG2	1.79	0.47
1:ZA:753:ILE:HG13	1:ZA:756:GLU:CB	2.43	0.47
1:AB:168:ILE:HD11	1:AB:174:LEU:HB2	1.96	0.47
1:AB:518:LEU:HA	1:AB:547:PHE:HD2	1.80	0.47
1:BB:55:PRO:HD3	1:CB:86:ALA:CB	2.42	0.47
1:BB:155:LYS:HG2	1:BB:156:GLU:OE1	2.15	0.47
1:CB:177:ARG:HH11	1:CB:193:GLY:HA2	1.80	0.47
1:EB:177:ARG:HH11	1:EB:193:GLY:HA2	1.79	0.47
1:FB:286:ASP:OD1	1:FB:297:GLY:N	2.47	0.47
1:FB:642:SER:HA	1:GB:580:ARG:NE	2.29	0.47
1:FB:717:GLU:CG	1:GB:707:LEU:HB3	2.44	0.47
1:JB:679:ARG:HH11	1:JB:679:ARG:HG2	1.79	0.47
1:JB:803:GLY:O	1:JB:807:ILE:HG22	2.14	0.47
1:LB:177:ARG:HH11	1:LB:193:GLY:HA2	1.80	0.47
1:LB:285:LEU:N	1:LB:315:ARG:O	2.41	0.47
1:NB:204:TYR:OH	1:NB:210:GLU:OE2	2.30	0.47
1:NB:591:PHE:CD1	1:NB:598:ILE:HD11	2.43	0.47
1:NB:739:GLY:O	1:NB:743:GLN:HG3	2.13	0.47
1:OB:655:GLN:HA	1:OB:658:VAL:HG23	1.96	0.47
1:PB:753:ILE:HG13	1:PB:756:GLU:CB	2.43	0.47
1:RB:505:PRO:HA	1:RB:526:VAL:HG12	1.97	0.47
1:SB:177:ARG:HH11	1:SB:193:GLY:HA2	1.80	0.47
1:SB:803:GLY:O	1:SB:807:ILE:HG22	2.14	0.47
1:TB:591:PHE:CD1	1:TB:598:ILE:HD11	2.42	0.47
1:VB:341:GLU:HB3	1:VB:344:GLU:HG2	1.95	0.47
1:VB:803:GLY:O	1:VB:807:ILE:HG22	2.14	0.47
1:WB:16:ILE:HD12	1:WB:43:VAL:HG23	1.96	0.47
1:WB:155:LYS:HG2	1:WB:156:GLU:OE1	2.15	0.47
1:YB:518:LEU:HA	1:YB:547:PHE:HD2	1.80	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:ZB:679:ARG:HH11	1:ZB:679:ARG:HG2	1.79	0.47
1:ZB:753:ILE:HG13	1:ZB:756:GLU:CB	2.43	0.47
1:AC:16:ILE:HD12	1:AC:43:VAL:HG23	1.96	0.47
1:A:687:ARG:NH1	1:C:679:ARG:HH11	2.11	0.47
1:A:708:GLU:CG	1:NB:716:VAL:HG21	2.23	0.47
1:A:717:GLU:HB2	1:C:707:LEU:CG	2.44	0.47
1:D:117:PRO:CG	1:F:180:LYS:HE3	2.43	0.47
1:D:285:LEU:N	1:D:315:ARG:O	2.41	0.47
1:D:654:LEU:CD1	1:F:534:HIS:CD2	2.97	0.47
1:D:786:GLN:O	1:D:790:VAL:HG23	2.15	0.47
1:E:406:TYR:HH	1:E:412:GLU:CD	2.18	0.47
1:F:533:ASP:OD2	1:F:587:THR:OG1	2.17	0.47
1:I:679:ARG:HG2	1:I:679:ARG:HH11	1.79	0.47
1:K:38:GLN:CB	1:UB:38:GLN:HG3	2.33	0.47
1:L:250:LEU:HG	1:L:312:PRO:HD3	1.95	0.47
1:M:16:ILE:HD12	1:M:43:VAL:HG23	1.96	0.47
1:M:786:GLN:O	1:M:790:VAL:HG23	2.15	0.47
1:O:655:GLN:HA	1:O:658:VAL:HG23	1.96	0.47
1:Q:753:ILE:HG13	1:Q:756:GLU:CB	2.43	0.47
1:R:285:LEU:N	1:R:315:ARG:O	2.41	0.47
1:S:177:ARG:HH11	1:S:193:GLY:HA2	1.80	0.47
1:T:505:PRO:HA	1:T:526:VAL:HG12	1.97	0.47
1:W:655:GLN:HA	1:W:658:VAL:HG23	1.96	0.47
1:W:803:GLY:O	1:W:807:ILE:HG22	2.14	0.47
1:X:177:ARG:HH11	1:X:193:GLY:HA2	1.80	0.47
1:Y:177:ARG:HH11	1:Y:193:GLY:HA2	1.80	0.47
1:Y:285:LEU:N	1:Y:315:ARG:O	2.41	0.47
1:Y:518:LEU:HA	1:Y:547:PHE:HD2	1.79	0.47
1:Z:508:PRO:O	1:Z:509:HIS:ND1	2.48	0.47
1:Z:679:ARG:HH11	1:Z:679:ARG:HG2	1.79	0.47
1:FA:64:PRO:O	1:FA:84:ARG:N	2.28	0.47
1:GA:177:ARG:HH11	1:GA:193:GLY:HA2	1.80	0.47
1:GA:184:ASP:HB3	1:GA:190:ARG:HG3	1.95	0.47
1:GA:505:PRO:HA	1:GA:526:VAL:HG12	1.97	0.47
1:GA:508:PRO:O	1:GA:509:HIS:ND1	2.48	0.47
1:HA:16:ILE:HD12	1:HA:43:VAL:HG23	1.96	0.47
1:HA:655:GLN:HA	1:HA:658:VAL:HG23	1.96	0.47
1:HA:753:ILE:HG13	1:HA:756:GLU:CB	2.43	0.47
1:IA:181:GLU:HG2	1:IA:191:VAL:HG12	1.95	0.47
1:MA:181:GLU:HG2	1:MA:191:VAL:HG12	1.95	0.47
1:NA:753:ILE:HG13	1:NA:756:GLU:CB	2.43	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:OA:17:HIS:NE2	1:OA:99:LEU:O	2.33	0.47
1:OA:406:TYR:HH	1:OA:412:GLU:CD	2.16	0.47
1:OA:505:PRO:HA	1:OA:526:VAL:HG12	1.97	0.47
1:SA:155:LYS:HG2	1:SA:156:GLU:OE1	2.15	0.47
1:TA:679:ARG:HH11	1:TA:679:ARG:HG2	1.79	0.47
1:TA:682:GLN:OE1	1:TA:685:ARG:NH2	2.41	0.47
1:VA:518:LEU:HA	1:VA:547:PHE:HD2	1.79	0.47
1:VA:679:ARG:HH11	1:VA:679:ARG:HG2	1.79	0.47
1:XA:155:LYS:HG2	1:XA:156:GLU:OE1	2.15	0.47
1:XA:505:PRO:HA	1:XA:526:VAL:HG12	1.97	0.47
1:XA:786:GLN:O	1:XA:790:VAL:HG23	2.15	0.47
1:ZA:655:GLN:HA	1:ZA:658:VAL:HG23	1.96	0.47
1:CB:168:ILE:HD11	1:CB:174:LEU:HB2	1.96	0.47
1:CB:786:GLN:O	1:CB:790:VAL:HG23	2.15	0.47
1:EB:184:ASP:HB3	1:EB:190:ARG:HG3	1.95	0.47
1:EB:717:GLU:CB	1:FB:707:LEU:HD13	2.39	0.47
1:FB:177:ARG:HH11	1:FB:193:GLY:HA2	1.80	0.47
1:FB:181:GLU:HG2	1:FB:191:VAL:HG12	1.95	0.47
1:FB:786:GLN:O	1:FB:790:VAL:HG23	2.15	0.47
1:HB:406:TYR:HH	1:HB:412:GLU:CD	2.18	0.47
1:IB:154:GLN:HB2	1:IB:157:VAL:HG22	1.95	0.47
1:IB:155:LYS:HG2	1:IB:156:GLU:OE1	2.15	0.47
1:IB:285:LEU:N	1:IB:315:ARG:O	2.41	0.47
1:JB:505:PRO:HA	1:JB:526:VAL:HG12	1.97	0.47
1:KB:655:GLN:HA	1:KB:658:VAL:HG23	1.96	0.47
1:LB:706:LEU:HD21	1:MB:693:ILE:O	2.14	0.47
1:MB:518:LEU:HA	1:MB:547:PHE:HD2	1.80	0.47
1:NB:168:ILE:HD11	1:NB:174:LEU:HB2	1.96	0.47
1:NB:518:LEU:HA	1:NB:547:PHE:HD2	1.80	0.47
1:NB:587:THR:HG1	1:NB:588:PHE:N	2.13	0.47
1:RB:155:LYS:HG2	1:RB:156:GLU:OE1	2.15	0.47
1:RB:285:LEU:N	1:RB:315:ARG:O	2.41	0.47
1:RB:750:ALA:HA	1:SB:744:ALA:HB2	1.96	0.47
1:SB:341:GLU:HB3	1:SB:344:GLU:HG2	1.95	0.47
1:SB:743:GLN:HE21	1:TB:734:ARG:HH22	1.60	0.47
1:UB:16:ILE:HD12	1:UB:43:VAL:HG23	1.96	0.47
1:UB:518:LEU:HA	1:UB:547:PHE:HD2	1.80	0.47
1:UB:768:MET:HE2	1:UB:768:MET:HB3	1.62	0.47
1:UB:786:GLN:O	1:UB:790:VAL:HG23	2.15	0.47
1:A:155:LYS:HG2	1:A:156:GLU:OE1	2.15	0.47
1:A:518:LEU:HA	1:A:547:PHE:HD2	1.79	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:695:ASP:HB3	1:C:686:GLY:HA2	1.95	0.47
1:A:745:LYS:HD2	1:NB:753:ILE:CG2	2.45	0.47
1:A:786:GLN:O	1:A:790:VAL:HG23	2.15	0.47
1:B:138:MET:N	1:B:141:ASP:OD2	2.36	0.47
1:B:155:LYS:HG2	1:B:156:GLU:OE1	2.15	0.47
1:B:739:GLY:O	1:B:743:GLN:HG3	2.13	0.47
1:C:155:LYS:HG2	1:C:156:GLU:OE1	2.15	0.47
1:C:750:ALA:HB2	1:E:741:VAL:CA	2.39	0.47
1:D:12:PRO:HG3	1:F:80:GLN:CB	2.43	0.47
1:D:114:VAL:HG21	1:F:140:GLY:C	2.31	0.47
1:D:155:LYS:HG2	1:D:156:GLU:OE1	2.15	0.47
1:E:518:LEU:HA	1:E:547:PHE:HD2	1.79	0.47
1:F:531:THR:HG23	1:F:533:ASP:H	1.79	0.47
1:G:155:LYS:HG2	1:G:156:GLU:OE1	2.15	0.47
1:G:786:GLN:O	1:G:790:VAL:HG23	2.15	0.47
1:H:505:PRO:HA	1:H:526:VAL:HG12	1.97	0.47
1:I:168:ILE:HD11	1:I:174:LEU:HB2	1.96	0.47
1:J:707:LEU:HD23	1:J:707:LEU:HA	1.74	0.47
1:K:286:ASP:OD1	1:K:297:GLY:N	2.47	0.47
1:K:682:GLN:OE1	1:K:685:ARG:NH2	2.41	0.47
1:K:803:GLY:O	1:K:807:ILE:HG22	2.14	0.47
1:L:508:PRO:O	1:L:509:HIS:ND1	2.48	0.47
1:N:505:PRO:HA	1:N:526:VAL:HG12	1.97	0.47
1:N:508:PRO:O	1:N:509:HIS:ND1	2.48	0.47
1:N:655:GLN:HA	1:N:658:VAL:HG23	1.96	0.47
1:N:786:GLN:O	1:N:790:VAL:HG23	2.15	0.47
1:O:518:LEU:HA	1:O:547:PHE:HD2	1.80	0.47
1:P:16:ILE:HD12	1:P:43:VAL:HG23	1.96	0.47
1:P:155:LYS:HG2	1:P:156:GLU:OE1	2.15	0.47
1:Q:184:ASP:HB3	1:Q:190:ARG:HG3	1.95	0.47
1:Q:283:VAL:HG22	1:Q:301:VAL:HG12	1.95	0.47
1:Q:652:ASP:OD1	1:Q:652:ASP:N	2.48	0.47
1:S:505:PRO:HA	1:S:526:VAL:HG12	1.97	0.47
1:S:508:PRO:O	1:S:509:HIS:ND1	2.48	0.47
1:S:655:GLN:HA	1:S:658:VAL:HG23	1.96	0.47
1:T:16:ILE:HD12	1:T:43:VAL:HG23	1.96	0.47
1:T:155:LYS:HG2	1:T:156:GLU:OE1	2.15	0.47
1:T:177:ARG:HH11	1:T:193:GLY:HA2	1.80	0.47
1:V:531:THR:HG23	1:V:533:ASP:H	1.78	0.47
1:W:16:ILE:HD12	1:W:43:VAL:HG23	1.96	0.47
1:W:508:PRO:O	1:W:509:HIS:ND1	2.48	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:W:652:ASP:OD1	1:W:652:ASP:N	2.48	0.47
1:X:168:ILE:HD11	1:X:174:LEU:HB2	1.96	0.47
1:X:508:PRO:O	1:X:509:HIS:ND1	2.48	0.47
1:X:518:LEU:HA	1:X:547:PHE:HD2	1.79	0.47
1:X:652:ASP:OD1	1:X:652:ASP:N	2.48	0.47
1:X:706:LEU:CD2	1:Z:693:ILE:HG23	2.38	0.47
1:X:739:GLY:O	1:X:743:GLN:HG3	2.13	0.47
1:X:786:GLN:O	1:X:790:VAL:HG23	2.15	0.47
1:Y:100:TYR:O	1:Y:103:GLU:HB2	2.13	0.47
1:Y:508:PRO:O	1:Y:509:HIS:ND1	2.48	0.47
1:Z:505:PRO:HA	1:Z:526:VAL:HG12	1.97	0.47
1:Z:655:GLN:HA	1:Z:658:VAL:HG23	1.96	0.47
1:AA:299:LYS:NZ	1:AA:317:GLU:OE2	2.32	0.47
1:BA:518:LEU:HA	1:BA:547:PHE:HD2	1.80	0.47
1:CA:168:ILE:HD11	1:CA:174:LEU:HB2	1.96	0.47
1:CA:655:GLN:HA	1:CA:658:VAL:HG23	1.96	0.47
1:DA:518:LEU:HA	1:DA:547:PHE:HD2	1.80	0.47
1:FA:91:ARG:NH1	1:FA:94:GLN:OE1	2.39	0.47
1:FA:505:PRO:HA	1:FA:526:VAL:HG12	1.97	0.47
1:FA:508:PRO:O	1:FA:509:HIS:ND1	2.48	0.47
1:FA:518:LEU:HA	1:FA:547:PHE:HD2	1.80	0.47
1:FA:786:GLN:O	1:FA:790:VAL:HG23	2.15	0.47
1:GA:155:LYS:HG2	1:GA:156:GLU:OE1	2.15	0.47
1:HA:177:ARG:HH11	1:HA:193:GLY:HA2	1.80	0.47
1:HA:508:PRO:O	1:HA:509:HIS:ND1	2.48	0.47
1:HA:518:LEU:HA	1:HA:547:PHE:HD2	1.80	0.47
1:HA:533:ASP:CG	1:HA:587:THR:HG1	2.13	0.47
1:IA:168:ILE:HD11	1:IA:174:LEU:HB2	1.96	0.47
1:IA:177:ARG:HH11	1:IA:193:GLY:HA2	1.79	0.47
1:IA:508:PRO:O	1:IA:509:HIS:ND1	2.48	0.47
1:JA:531:THR:HG23	1:JA:533:ASP:H	1.78	0.47
1:JA:652:ASP:OD1	1:JA:652:ASP:N	2.48	0.47
1:LA:518:LEU:HA	1:LA:547:PHE:HD2	1.79	0.47
1:LA:786:GLN:O	1:LA:790:VAL:HG23	2.15	0.47
1:NA:786:GLN:O	1:NA:790:VAL:HG23	2.15	0.47
1:OA:168:ILE:HD11	1:OA:174:LEU:HB2	1.96	0.47
1:OA:181:GLU:HG2	1:OA:191:VAL:HG12	1.95	0.47
1:OA:508:PRO:O	1:OA:509:HIS:ND1	2.48	0.47
1:OA:518:LEU:HA	1:OA:547:PHE:HD2	1.79	0.47
1:OA:655:GLN:HA	1:OA:658:VAL:HG23	1.96	0.47
1:OA:679:ARG:HH11	1:OA:679:ARG:HG2	1.79	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:PA:16:ILE:HD12	1:PA:43:VAL:HG23	1.96	0.47
1:PA:204:TYR:OH	1:PA:210:GLU:OE2	2.30	0.47
1:PA:285:LEU:N	1:PA:315:ARG:O	2.41	0.47
1:PA:508:PRO:O	1:PA:509:HIS:ND1	2.48	0.47
1:PA:518:LEU:HA	1:PA:547:PHE:HD2	1.79	0.47
1:PA:682:GLN:OE1	1:PA:685:ARG:NH2	2.41	0.47
1:QA:177:ARG:HH11	1:QA:193:GLY:HA2	1.80	0.47
1:QA:679:ARG:HH11	1:QA:679:ARG:HG2	1.80	0.47
1:RA:177:ARG:HH11	1:RA:193:GLY:HA2	1.79	0.47
1:RA:508:PRO:O	1:RA:509:HIS:ND1	2.48	0.47
1:SA:655:GLN:HA	1:SA:658:VAL:HG23	1.96	0.47
1:TA:786:GLN:O	1:TA:790:VAL:HG23	2.15	0.47
1:UA:655:GLN:HA	1:UA:658:VAL:HG23	1.96	0.47
1:UA:707:LEU:HD23	1:UA:707:LEU:HA	1.74	0.47
1:XA:508:PRO:O	1:XA:509:HIS:ND1	2.48	0.47
1:YA:168:ILE:HD11	1:YA:174:LEU:HB2	1.96	0.47
1:YA:204:TYR:OH	1:YA:210:GLU:OE2	2.30	0.47
1:YA:655:GLN:HA	1:YA:658:VAL:HG23	1.96	0.47
1:YA:753:ILE:HG13	1:YA:756:GLU:CB	2.43	0.47
1:ZA:706:LEU:CD2	1:BB:693:ILE:HG23	2.44	0.47
1:AB:16:ILE:HD12	1:AB:43:VAL:HG23	1.96	0.47
1:AB:67:ARG:NH2	1:AB:71:SER:O	2.45	0.47
1:AB:154:GLN:HB2	1:AB:157:VAL:HG22	1.95	0.47
1:AB:155:LYS:HG2	1:AB:156:GLU:OE1	2.15	0.47
1:AB:655:GLN:HA	1:AB:658:VAL:HG23	1.96	0.47
1:BB:177:ARG:HH11	1:BB:193:GLY:HA2	1.79	0.47
1:CB:518:LEU:HA	1:CB:547:PHE:HD2	1.80	0.47
1:DB:508:PRO:O	1:DB:509:HIS:ND1	2.48	0.47
1:DB:655:GLN:HA	1:DB:658:VAL:HG23	1.96	0.47
1:EB:91:ARG:NH1	1:EB:94:GLN:OE1	2.39	0.47
1:EB:285:LEU:N	1:EB:315:ARG:O	2.41	0.47
1:EB:728:SER:HB3	1:FB:718:SER:HB2	1.97	0.47
1:EB:768:MET:SD	1:FB:759:LEU:CD1	3.02	0.47
1:FB:505:PRO:HA	1:FB:526:VAL:HG12	1.97	0.47
1:FB:679:ARG:HH11	1:FB:679:ARG:HG2	1.79	0.47
1:GB:508:PRO:O	1:GB:509:HIS:ND1	2.48	0.47
1:GB:531:THR:HG23	1:GB:533:ASP:H	1.79	0.47
1:IB:508:PRO:O	1:IB:509:HIS:ND1	2.48	0.47
1:JB:154:GLN:HB2	1:JB:157:VAL:HG22	1.95	0.47
1:KB:682:GLN:OE1	1:KB:685:ARG:NH2	2.41	0.47
1:LB:341:GLU:HB3	1:LB:344:GLU:HG2	1.95	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:LB:465:ASN:ND2	1:MB:563:SER:HA	2.29	0.47
1:MB:283:VAL:HG22	1:MB:301:VAL:HG12	1.95	0.47
1:MB:508:PRO:O	1:MB:509:HIS:ND1	2.48	0.47
1:MB:757:ALA:CB	1:NB:748:ALA:C	2.83	0.47
1:NB:155:LYS:HG2	1:NB:156:GLU:OE1	2.15	0.47
1:NB:508:PRO:O	1:NB:509:HIS:ND1	2.48	0.47
1:OB:170:GLN:HG2	1:PB:233:GLN:NE2	2.30	0.47
1:OB:286:ASP:OD1	1:OB:297:GLY:N	2.47	0.47
1:OB:786:GLN:O	1:OB:790:VAL:HG23	2.15	0.47
1:PB:155:LYS:HG2	1:PB:156:GLU:OE1	2.15	0.47
1:QB:531:THR:HG23	1:QB:533:ASP:H	1.79	0.47
1:QB:803:GLY:O	1:QB:807:ILE:HG22	2.14	0.47
1:RB:757:ALA:HB1	1:SB:752:ALA:HB2	1.97	0.47
1:RB:786:GLN:O	1:RB:790:VAL:HG23	2.15	0.47
1:SB:508:PRO:O	1:SB:509:HIS:ND1	2.48	0.47
1:TB:518:LEU:HA	1:TB:547:PHE:HD2	1.80	0.47
1:UB:508:PRO:O	1:UB:509:HIS:ND1	2.48	0.47
1:VB:505:PRO:HA	1:VB:526:VAL:HG12	1.97	0.47
1:VB:508:PRO:O	1:VB:509:HIS:ND1	2.48	0.47
1:VB:655:GLN:HA	1:VB:658:VAL:HG23	1.96	0.47
1:VB:699:ALA:CA	1:WB:693:ILE:HG13	2.44	0.47
1:WB:286:ASP:OD1	1:WB:297:GLY:N	2.47	0.47
1:WB:679:ARG:HH11	1:WB:679:ARG:HG2	1.79	0.47
1:XB:184:ASP:HB3	1:XB:190:ARG:HG3	1.95	0.47
1:XB:518:LEU:HA	1:XB:547:PHE:HD2	1.79	0.47
1:XB:655:GLN:HA	1:XB:658:VAL:HG23	1.96	0.47
1:YB:154:GLN:HB2	1:YB:157:VAL:HG22	1.95	0.47
1:YB:155:LYS:HG2	1:YB:156:GLU:OE1	2.15	0.47
1:YB:177:ARG:HH11	1:YB:193:GLY:HA2	1.80	0.47
1:ZB:508:PRO:O	1:ZB:509:HIS:ND1	2.48	0.47
1:ZB:658:VAL:CG1	1:AC:534:HIS:HB2	2.44	0.47
1:ZB:742:LEU:HD22	1:AC:734:ARG:HH21	1.71	0.47
1:ZB:786:GLN:O	1:ZB:790:VAL:HG23	2.15	0.47
1:AC:286:ASP:OD1	1:AC:297:GLY:N	2.47	0.47
1:AC:411:ASP:OD1	1:AC:411:ASP:N	2.42	0.47
1:A:750:ALA:CA	1:C:740:SER:O	2.63	0.47
1:B:707:LEU:HD13	1:AC:717:GLU:CG	2.45	0.47
1:C:786:GLN:O	1:C:790:VAL:HG23	2.15	0.47
1:D:167:VAL:HG22	1:F:191:VAL:HB	1.96	0.47
1:D:679:ARG:HH11	1:D:679:ARG:HG2	1.79	0.47
1:E:508:PRO:O	1:E:509:HIS:ND1	2.48	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:591:PHE:CD1	1:E:598:ILE:HD11	2.42	0.47
1:F:155:LYS:HG2	1:F:156:GLU:OE1	2.15	0.47
1:F:508:PRO:O	1:F:509:HIS:ND1	2.48	0.47
1:F:786:GLN:O	1:F:790:VAL:HG23	2.15	0.47
1:G:810:LEU:HA	1:I:811:ALA:HB1	1.97	0.47
1:H:790:VAL:HG11	1:J:784:ALA:CB	2.45	0.47
1:J:753:ILE:HG13	1:J:756:GLU:CB	2.43	0.47
1:K:505:PRO:HA	1:K:526:VAL:HG12	1.97	0.47
1:K:652:ASP:OD1	1:K:652:ASP:N	2.48	0.47
1:L:56:ARG:HH11	1:N:128:ASP:CB	2.27	0.47
1:L:155:LYS:HG2	1:L:156:GLU:OE1	2.15	0.47
1:L:505:PRO:HA	1:L:526:VAL:HG12	1.97	0.47
1:O:508:PRO:O	1:O:509:HIS:ND1	2.48	0.47
1:P:655:GLN:HA	1:P:658:VAL:HG23	1.96	0.47
1:Q:181:GLU:HG2	1:Q:191:VAL:HG12	1.95	0.47
1:Q:285:LEU:N	1:Q:315:ARG:O	2.41	0.47
1:Q:518:LEU:HA	1:Q:547:PHE:HD2	1.80	0.47
1:Q:786:GLN:O	1:Q:790:VAL:HG23	2.15	0.47
1:R:680:LEU:HD13	1:T:672:ALA:HB2	1.97	0.47
1:S:786:GLN:O	1:S:790:VAL:HG23	2.15	0.47
1:T:652:ASP:OD1	1:T:652:ASP:N	2.48	0.47
1:T:655:GLN:HA	1:T:658:VAL:HG23	1.96	0.47
1:T:786:GLN:O	1:T:790:VAL:HG23	2.15	0.47
1:V:177:ARG:HH11	1:V:193:GLY:HA2	1.80	0.47
1:W:505:PRO:HA	1:W:526:VAL:HG12	1.97	0.47
1:Y:155:LYS:HG2	1:Y:156:GLU:OE1	2.15	0.47
1:Z:177:ARG:HH11	1:Z:193:GLY:HA2	1.80	0.47
1:Z:786:GLN:O	1:Z:790:VAL:HG23	2.15	0.47
1:AA:508:PRO:O	1:AA:509:HIS:ND1	2.48	0.47
1:BA:168:ILE:HD11	1:BA:174:LEU:HB2	1.96	0.47
1:CA:16:ILE:HD12	1:CA:43:VAL:HG23	1.96	0.47
1:DA:168:ILE:HD11	1:DA:174:LEU:HB2	1.96	0.47
1:GA:181:GLU:HG2	1:GA:191:VAL:HG12	1.95	0.47
1:HA:739:GLY:CA	1:JA:734:ARG:HH22	2.21	0.47
1:IA:505:PRO:HA	1:IA:526:VAL:HG12	1.97	0.47
1:KA:786:GLN:O	1:KA:790:VAL:HG23	2.15	0.47
1:LA:505:PRO:HA	1:LA:526:VAL:HG12	1.97	0.47
1:LA:655:GLN:HA	1:LA:658:VAL:HG23	1.96	0.47
1:MA:786:GLN:O	1:MA:790:VAL:HG23	2.15	0.47
1:PA:286:ASP:OD1	1:PA:297:GLY:N	2.47	0.47
1:RA:16:ILE:HD12	1:RA:43:VAL:HG23	1.96	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:SA:518:LEU:HA	1:SA:547:PHE:HD2	1.79	0.47
1:UA:739:GLY:O	1:UA:743:GLN:HG3	2.13	0.47
1:WA:16:ILE:HD12	1:WA:43:VAL:HG23	1.96	0.47
1:XA:286:ASP:OD1	1:XA:297:GLY:N	2.47	0.47
1:XA:518:LEU:HA	1:XA:547:PHE:HD2	1.80	0.47
1:YA:177:ARG:HH11	1:YA:193:GLY:HA2	1.80	0.47
1:ZA:508:PRO:O	1:ZA:509:HIS:ND1	2.48	0.47
1:BB:508:PRO:O	1:BB:509:HIS:ND1	2.48	0.47
1:CB:655:GLN:HA	1:CB:658:VAL:HG23	1.96	0.47
1:DB:155:LYS:HG2	1:DB:156:GLU:OE1	2.15	0.47
1:DB:168:ILE:HD11	1:DB:174:LEU:HB2	1.96	0.47
1:DB:505:PRO:HA	1:DB:526:VAL:HG12	1.97	0.47
1:DB:591:PHE:CD1	1:DB:598:ILE:HD11	2.42	0.47
1:EB:706:LEU:CD2	1:FB:693:ILE:HG23	2.45	0.47
1:FB:654:LEU:HD22	1:GB:534:HIS:NE2	2.27	0.47
1:GB:505:PRO:HA	1:GB:526:VAL:HG12	1.97	0.47
1:GB:786:GLN:O	1:GB:790:VAL:HG23	2.15	0.47
1:HB:786:GLN:O	1:HB:790:VAL:HG23	2.15	0.47
1:IB:16:ILE:HD12	1:IB:43:VAL:HG23	1.96	0.47
1:JB:508:PRO:O	1:JB:509:HIS:ND1	2.48	0.47
1:KB:155:LYS:HG2	1:KB:156:GLU:OE1	2.15	0.47
1:LB:753:ILE:HG13	1:LB:756:GLU:CB	2.43	0.47
1:NB:655:GLN:HA	1:NB:658:VAL:HG23	1.96	0.47
1:OB:204:TYR:OH	1:OB:210:GLU:OE2	2.30	0.47
1:RB:16:ILE:HD12	1:RB:43:VAL:HG23	1.96	0.47
1:RB:679:ARG:HH11	1:RB:679:ARG:HG2	1.79	0.47
1:SB:786:GLN:O	1:SB:790:VAL:HG23	2.15	0.47
1:TB:783:LYS:HE3	1:UB:777:LEU:HG	1.96	0.47
1:UB:505:PRO:HA	1:UB:526:VAL:HG12	1.97	0.47
1:UB:802:LEU:O	1:VB:804:PRO:HA	2.14	0.47
1:VB:518:LEU:HA	1:VB:547:PHE:HD2	1.80	0.47
1:WB:655:GLN:HA	1:WB:658:VAL:HG23	1.96	0.47
1:XB:505:PRO:HA	1:XB:526:VAL:HG12	1.97	0.47
1:XB:506:LYS:HD3	1:XB:506:LYS:HA	1.81	0.47
1:ZB:155:LYS:HG2	1:ZB:156:GLU:OE1	2.15	0.47
1:ZB:204:TYR:OH	1:ZB:210:GLU:OE2	2.30	0.47
1:A:461:ARG:NH1	1:C:473:TYR:HE2	2.13	0.47
1:A:707:LEU:HD22	1:NB:717:GLU:HG3	1.96	0.47
1:B:652:ASP:N	1:B:652:ASP:OD1	2.48	0.47
1:C:91:ARG:NH1	1:C:94:GLN:OE1	2.39	0.47
1:D:167:VAL:HG22	1:F:192:THR:H	1.80	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:203:ALA:HB3	1:F:181:GLU:CB	2.44	0.47
1:F:168:ILE:HD11	1:F:174:LEU:HB2	1.96	0.47
1:G:801:ALA:CB	1:I:796:LYS:HA	2.45	0.47
1:H:16:ILE:HD12	1:H:43:VAL:HG23	1.96	0.47
1:H:655:GLN:HA	1:H:658:VAL:HG23	1.96	0.47
1:I:505:PRO:HA	1:I:526:VAL:HG12	1.97	0.47
1:I:518:LEU:HA	1:I:547:PHE:HD2	1.80	0.47
1:J:16:ILE:HD12	1:J:43:VAL:HG23	1.96	0.47
1:K:177:ARG:HH11	1:K:193:GLY:HA2	1.80	0.47
1:K:679:ARG:HH11	1:K:679:ARG:HG2	1.79	0.47
1:M:177:ARG:HH11	1:M:193:GLY:HA2	1.80	0.47
1:N:16:ILE:HD12	1:N:43:VAL:HG23	1.96	0.47
1:Q:505:PRO:HA	1:Q:526:VAL:HG12	1.97	0.47
1:R:687:ARG:HH12	1:T:679:ARG:HH11	1.61	0.47
1:S:679:ARG:HH11	1:S:679:ARG:HG2	1.80	0.47
1:T:181:GLU:HG2	1:T:191:VAL:HG12	1.95	0.47
1:V:16:ILE:HD12	1:V:43:VAL:HG23	1.96	0.47
1:W:155:LYS:HG2	1:W:156:GLU:OE1	2.15	0.47
1:AA:168:ILE:HD11	1:AA:174:LEU:HB2	1.96	0.47
1:BA:155:LYS:HG2	1:BA:156:GLU:OE1	2.15	0.47
1:CA:155:LYS:HG2	1:CA:156:GLU:OE1	2.15	0.47
1:CA:177:ARG:HH11	1:CA:193:GLY:HA2	1.79	0.47
1:CA:508:PRO:O	1:CA:509:HIS:ND1	2.48	0.47
1:DA:508:PRO:O	1:DA:509:HIS:ND1	2.48	0.47
1:DA:531:THR:HG23	1:DA:533:ASP:H	1.79	0.47
1:DA:652:ASP:OD1	1:DA:652:ASP:N	2.48	0.47
1:EA:286:ASP:OD1	1:EA:297:GLY:N	2.47	0.47
1:EA:508:PRO:O	1:EA:509:HIS:ND1	2.48	0.47
1:FA:652:ASP:OD1	1:FA:652:ASP:N	2.48	0.47
1:HA:768:MET:CE	1:JA:763:LYS:HA	2.44	0.47
1:HA:786:GLN:O	1:HA:790:VAL:HG23	2.15	0.47
1:JA:204:TYR:OH	1:JA:210:GLU:OE2	2.30	0.47
1:JA:236:LYS:HE3	1:JA:236:LYS:HB2	1.77	0.47
1:JA:518:LEU:HA	1:JA:547:PHE:HD2	1.80	0.47
1:KA:682:GLN:OE1	1:KA:685:ARG:NH2	2.41	0.47
1:LA:138:MET:N	1:LA:141:ASP:OD2	2.36	0.47
1:LA:299:LYS:NZ	1:LA:317:GLU:OE2	2.32	0.47
1:NA:16:ILE:HD12	1:NA:43:VAL:HG23	1.96	0.47
1:NA:177:ARG:HH11	1:NA:193:GLY:HA2	1.80	0.47
1:PA:505:PRO:HA	1:PA:526:VAL:HG12	1.97	0.47
1:RA:786:GLN:O	1:RA:790:VAL:HG23	2.15	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:TA:16:ILE:HD12	1:TA:43:VAL:HG23	1.96	0.47
1:WA:508:PRO:O	1:WA:509:HIS:ND1	2.48	0.47
1:WA:753:ILE:HG13	1:WA:756:GLU:CB	2.43	0.47
1:XA:655:GLN:HA	1:XA:658:VAL:HG23	1.96	0.47
1:YA:508:PRO:O	1:YA:509:HIS:ND1	2.48	0.47
1:YA:531:THR:HG23	1:YA:533:ASP:H	1.79	0.47
1:DB:743:GLN:CG	1:EB:734:ARG:NH2	2.77	0.47
1:EB:508:PRO:O	1:EB:509:HIS:ND1	2.48	0.47
1:GB:155:LYS:HG2	1:GB:156:GLU:OE1	2.15	0.47
1:JB:652:ASP:OD1	1:JB:652:ASP:N	2.48	0.47
1:LB:531:THR:HG23	1:LB:533:ASP:H	1.79	0.47
1:OB:155:LYS:HG2	1:OB:156:GLU:OE1	2.15	0.47
1:QB:505:PRO:HA	1:QB:526:VAL:HG12	1.97	0.47
1:TB:155:LYS:HG2	1:TB:156:GLU:OE1	2.15	0.47
1:TB:168:ILE:HD11	1:TB:174:LEU:HB2	1.96	0.47
1:TB:177:ARG:HH11	1:TB:193:GLY:HA2	1.80	0.47
1:VB:229:LEU:HD13	1:VB:265:GLU:HB3	1.97	0.47
1:YB:786:GLN:O	1:YB:790:VAL:HG23	2.15	0.47
1:AC:155:LYS:HG2	1:AC:156:GLU:OE1	2.15	0.47
1:A:802:LEU:HD21	1:C:795:PHE:CE2	2.49	0.47
1:B:508:PRO:O	1:B:509:HIS:ND1	2.48	0.47
1:B:655:GLN:HA	1:B:658:VAL:HG23	1.96	0.47
1:B:786:GLN:O	1:B:790:VAL:HG23	2.15	0.47
1:D:177:ARG:HH11	1:D:193:GLY:HA2	1.80	0.47
1:D:185:ARG:HG3	1:D:204:TYR:HE1	1.80	0.47
1:E:168:ILE:HD11	1:E:174:LEU:HB2	1.96	0.47
1:F:682:GLN:OE1	1:F:685:ARG:NH2	2.41	0.47
1:H:15:TYR:CZ	1:H:98:PRO:HA	2.50	0.47
1:I:786:GLN:O	1:I:790:VAL:HG23	2.15	0.47
1:J:229:LEU:HD13	1:J:265:GLU:HB3	1.97	0.47
1:K:155:LYS:HG2	1:K:156:GLU:OE1	2.15	0.47
1:K:283:VAL:HG22	1:K:301:VAL:HG12	1.95	0.47
1:L:91:ARG:NH1	1:L:94:GLN:OE1	2.39	0.47
1:L:652:ASP:OD1	1:L:652:ASP:N	2.48	0.47
1:L:679:ARG:HH11	1:L:679:ARG:HG2	1.79	0.47
1:M:508:PRO:O	1:M:509:HIS:ND1	2.48	0.47
1:O:531:THR:HG23	1:O:533:ASP:H	1.79	0.47
1:Q:91:ARG:NH1	1:Q:94:GLN:OE1	2.39	0.47
1:Q:177:ARG:HH11	1:Q:193:GLY:HA2	1.80	0.47
1:T:168:ILE:HD11	1:T:174:LEU:HB2	1.96	0.47
1:T:508:PRO:O	1:T:509:HIS:ND1	2.48	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:V:229:LEU:HD13	1:V:265:GLU:HB3	1.97	0.47
1:V:679:ARG:HH11	1:V:679:ARG:HG2	1.80	0.47
1:V:728:SER:HB3	1:X:718:SER:OG	2.15	0.47
1:W:786:GLN:O	1:W:790:VAL:HG23	2.15	0.47
1:X:229:LEU:HD13	1:X:265:GLU:HB3	1.97	0.47
1:X:531:THR:HG23	1:X:533:ASP:H	1.78	0.47
1:AA:155:LYS:HG2	1:AA:156:GLU:OE1	2.15	0.47
1:DA:155:LYS:HG2	1:DA:156:GLU:OE1	2.15	0.47
1:DA:786:GLN:O	1:DA:790:VAL:HG23	2.15	0.47
1:IA:169:LYS:HZ3	1:KA:194:GLU:HG3	1.80	0.47
1:IA:724:ALA:HB1	1:KA:714:MET:SD	2.55	0.47
1:JA:181:GLU:HG2	1:JA:191:VAL:HG12	1.95	0.47
1:JA:229:LEU:HD13	1:JA:265:GLU:HB3	1.97	0.47
1:LA:229:LEU:HD13	1:LA:265:GLU:HB3	1.97	0.47
1:LA:679:ARG:HH11	1:LA:679:ARG:HG2	1.80	0.47
1:LA:707:LEU:HD23	1:LA:707:LEU:HA	1.74	0.47
1:PA:155:LYS:HG2	1:PA:156:GLU:OE1	2.15	0.47
1:RA:655:GLN:HA	1:RA:658:VAL:HG23	1.96	0.47
1:UA:16:ILE:HD12	1:UA:43:VAL:HG23	1.96	0.47
1:UA:531:THR:HG23	1:UA:533:ASP:H	1.79	0.47
1:VA:155:LYS:HG2	1:VA:156:GLU:OE1	2.15	0.47
1:VA:177:ARG:HH11	1:VA:193:GLY:HA2	1.79	0.47
1:VA:505:PRO:HA	1:VA:526:VAL:HG12	1.97	0.47
1:VA:655:GLN:HA	1:VA:658:VAL:HG23	1.96	0.47
1:WA:786:GLN:O	1:WA:790:VAL:HG23	2.15	0.47
1:YA:15:TYR:CZ	1:YA:98:PRO:HA	2.50	0.47
1:ZA:15:TYR:CZ	1:ZA:98:PRO:HA	2.51	0.47
1:ZA:505:PRO:HA	1:ZA:526:VAL:HG12	1.97	0.47
1:ZA:702:ALA:HB3	1:BB:693:ILE:HG21	1.97	0.47
1:ZA:728:SER:HA	1:BB:719:THR:HA	1.97	0.47
1:ZA:786:GLN:O	1:ZA:790:VAL:HG23	2.15	0.47
1:CB:185:ARG:HG3	1:CB:204:TYR:HE1	1.81	0.47
1:CB:652:ASP:OD1	1:CB:652:ASP:N	2.48	0.47
1:DB:518:LEU:HA	1:DB:547:PHE:HD2	1.80	0.47
1:FB:16:ILE:HD12	1:FB:43:VAL:HG23	1.96	0.47
1:FB:155:LYS:HG2	1:FB:156:GLU:OE1	2.15	0.47
1:FB:405:THR:HG22	1:GB:395:THR:HA	1.94	0.47
1:FB:406:TYR:HH	1:FB:412:GLU:CD	2.17	0.47
1:HB:285:LEU:N	1:HB:315:ARG:O	2.41	0.47
1:LB:593:LYS:CA	1:MB:585:SER:HA	2.45	0.47
1:LB:709:LEU:HD12	1:MB:701:LYS:CG	2.45	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:MB:177:ARG:HH11	1:MB:193:GLY:HA2	1.80	0.47
1:MB:181:GLU:HG2	1:MB:191:VAL:HG12	1.95	0.47
1:MB:768:MET:CE	1:NB:763:LYS:HB2	2.45	0.47
1:NB:679:ARG:HH11	1:NB:679:ARG:HG2	1.80	0.47
1:PB:177:ARG:HH11	1:PB:193:GLY:HA2	1.80	0.47
1:QB:155:LYS:HG2	1:QB:156:GLU:OE1	2.15	0.47
1:QB:652:ASP:OD1	1:QB:652:ASP:N	2.48	0.47
1:SB:518:LEU:HA	1:SB:547:PHE:HD2	1.79	0.47
1:TB:655:GLN:HA	1:TB:658:VAL:HG23	1.96	0.47
1:UB:15:TYR:CZ	1:UB:98:PRO:HA	2.51	0.47
1:UB:204:TYR:OH	1:UB:210:GLU:OE2	2.30	0.47
1:UB:229:LEU:HD13	1:UB:265:GLU:HB3	1.97	0.47
1:VB:177:ARG:HH11	1:VB:193:GLY:HA2	1.80	0.47
1:VB:250:LEU:HG	1:VB:312:PRO:HD3	1.95	0.47
1:WB:229:LEU:HD13	1:WB:265:GLU:HB3	1.97	0.47
1:XB:155:LYS:HG2	1:XB:156:GLU:OE1	2.15	0.47
1:XB:177:ARG:HH11	1:XB:193:GLY:HA2	1.80	0.47
1:ZB:518:LEU:HA	1:ZB:547:PHE:HD2	1.80	0.47
1:ZB:651:ARG:C	1:ZB:653:ALA:H	2.17	0.47
1:AC:518:LEU:HA	1:AC:547:PHE:HD2	1.80	0.47
1:AC:786:GLN:O	1:AC:790:VAL:HG23	2.15	0.47
1:A:508:PRO:O	1:A:509:HIS:ND1	2.48	0.46
1:A:731:GLU:CG	1:C:723:LYS:CB	2.92	0.46
1:D:181:GLU:HG2	1:D:191:VAL:HG12	1.95	0.46
1:D:229:LEU:HD13	1:D:265:GLU:HB3	1.97	0.46
1:D:327:SER:HB3	1:F:355:ASP:CA	2.46	0.46
1:E:679:ARG:HG2	1:E:679:ARG:HH11	1.79	0.46
1:F:229:LEU:HD13	1:F:265:GLU:HB3	1.97	0.46
1:F:652:ASP:N	1:F:652:ASP:OD1	2.48	0.46
1:F:679:ARG:HH11	1:F:679:ARG:HG2	1.79	0.46
1:F:707:LEU:HD23	1:F:707:LEU:HA	1.74	0.46
1:G:177:ARG:HH11	1:G:193:GLY:HA2	1.80	0.46
1:I:204:TYR:OH	1:I:210:GLU:OE2	2.30	0.46
1:J:155:LYS:HG2	1:J:156:GLU:OE1	2.15	0.46
1:J:286:ASP:OD1	1:J:297:GLY:N	2.47	0.46
1:K:786:GLN:O	1:K:790:VAL:HG23	2.15	0.46
1:L:229:LEU:HD13	1:L:265:GLU:HB3	1.97	0.46
1:P:508:PRO:O	1:P:509:HIS:ND1	2.48	0.46
1:Q:236:LYS:HE3	1:Q:236:LYS:HB2	1.77	0.46
1:R:15:TYR:CZ	1:R:98:PRO:HA	2.51	0.46
1:R:508:PRO:O	1:R:509:HIS:ND1	2.48	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:R:592:HIS:CE1	1:T:530:GLU:HB3	2.50	0.46
1:S:16:ILE:HD12	1:S:43:VAL:HG23	1.96	0.46
1:T:286:ASP:OD1	1:T:297:GLY:N	2.47	0.46
1:T:533:ASP:CG	1:T:587:THR:HG1	2.14	0.46
1:W:185:ARG:HG3	1:W:204:TYR:HE1	1.81	0.46
1:Y:679:ARG:HH11	1:Y:679:ARG:HG2	1.79	0.46
1:AA:15:TYR:CZ	1:AA:98:PRO:HA	2.51	0.46
1:AA:591:PHE:CD1	1:AA:598:ILE:HD11	2.42	0.46
1:AA:652:ASP:N	1:AA:652:ASP:OD1	2.48	0.46
1:AA:655:GLN:HA	1:AA:658:VAL:HG23	1.96	0.46
1:BA:229:LEU:HD13	1:BA:265:GLU:HB3	1.97	0.46
1:BA:508:PRO:O	1:BA:509:HIS:ND1	2.48	0.46
1:CA:505:PRO:HA	1:CA:526:VAL:HG12	1.97	0.46
1:CA:679:ARG:HH11	1:CA:679:ARG:HG2	1.79	0.46
1:DA:229:LEU:HD13	1:DA:265:GLU:HB3	1.97	0.46
1:DA:505:PRO:HA	1:DA:526:VAL:HG12	1.97	0.46
1:FA:155:LYS:HG2	1:FA:156:GLU:OE1	2.15	0.46
1:FA:753:ILE:HG13	1:FA:756:GLU:CB	2.43	0.46
1:GA:15:TYR:CZ	1:GA:98:PRO:HA	2.51	0.46
1:GA:506:LYS:HD3	1:GA:506:LYS:HA	1.81	0.46
1:HA:15:TYR:CZ	1:HA:98:PRO:HA	2.50	0.46
1:HA:679:ARG:HG2	1:HA:679:ARG:HH11	1.80	0.46
1:IA:204:TYR:OH	1:IA:210:GLU:OE2	2.30	0.46
1:JA:15:TYR:CZ	1:JA:98:PRO:HA	2.51	0.46
1:JA:155:LYS:HG2	1:JA:156:GLU:OE1	2.15	0.46
1:JA:508:PRO:O	1:JA:509:HIS:ND1	2.48	0.46
1:KA:655:GLN:HA	1:KA:658:VAL:HG23	1.96	0.46
1:MA:655:GLN:HA	1:MA:658:VAL:HG23	1.96	0.46
1:MA:753:ILE:HG13	1:MA:756:GLU:CB	2.43	0.46
1:NA:508:PRO:O	1:NA:509:HIS:ND1	2.48	0.46
1:NA:591:PHE:CD1	1:NA:598:ILE:HD11	2.42	0.46
1:PA:786:GLN:O	1:PA:790:VAL:HG23	2.15	0.46
1:QA:168:ILE:HD11	1:QA:174:LEU:HB2	1.96	0.46
1:RA:518:LEU:HA	1:RA:547:PHE:HD2	1.79	0.46
1:SA:786:GLN:O	1:SA:790:VAL:HG23	2.15	0.46
1:TA:155:LYS:HG2	1:TA:156:GLU:OE1	2.15	0.46
1:UA:177:ARG:HH11	1:UA:193:GLY:HA2	1.79	0.46
1:VA:91:ARG:NH1	1:VA:94:GLN:OE1	2.38	0.46
1:VA:508:PRO:O	1:VA:509:HIS:ND1	2.48	0.46
1:WA:15:TYR:CZ	1:WA:98:PRO:HA	2.51	0.46
1:WA:155:LYS:HG2	1:WA:156:GLU:OE1	2.15	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:XA:679:ARG:HH11	1:XA:679:ARG:HG2	1.79	0.46
1:ZA:16:ILE:HD12	1:ZA:43:VAL:HG23	1.96	0.46
1:ZA:177:ARG:HH11	1:ZA:193:GLY:HA2	1.80	0.46
1:ZA:229:LEU:HD13	1:ZA:265:GLU:HB3	1.97	0.46
1:ZA:518:LEU:HA	1:ZA:547:PHE:HD2	1.80	0.46
1:AB:229:LEU:HD13	1:AB:265:GLU:HB3	1.97	0.46
1:AB:508:PRO:O	1:AB:509:HIS:ND1	2.48	0.46
1:EB:786:GLN:O	1:EB:790:VAL:HG23	2.15	0.46
1:GB:16:ILE:HD12	1:GB:43:VAL:HG23	1.96	0.46
1:GB:177:ARG:HH11	1:GB:193:GLY:HA2	1.80	0.46
1:HB:679:ARG:HH11	1:HB:679:ARG:HG2	1.80	0.46
1:JB:168:ILE:HD11	1:JB:174:LEU:HB2	1.96	0.46
1:JB:177:ARG:HH11	1:JB:193:GLY:HA2	1.80	0.46
1:KB:16:ILE:HD12	1:KB:43:VAL:HG23	1.96	0.46
1:LB:155:LYS:HG2	1:LB:156:GLU:OE1	2.15	0.46
1:LB:786:GLN:O	1:LB:790:VAL:HG23	2.15	0.46
1:MB:652:ASP:OD1	1:MB:652:ASP:N	2.48	0.46
1:NB:753:ILE:HG13	1:NB:756:GLU:CB	2.43	0.46
1:OB:15:TYR:CZ	1:OB:98:PRO:HA	2.51	0.46
1:OB:222:THR:HG21	1:PB:248:GLU:OE2	2.15	0.46
1:OB:305:GLU:CG	1:PB:298:GLN:HG2	2.45	0.46
1:PB:508:PRO:O	1:PB:509:HIS:ND1	2.48	0.46
1:PB:518:LEU:HA	1:PB:547:PHE:HD2	1.80	0.46
1:QB:15:TYR:CZ	1:QB:98:PRO:HA	2.51	0.46
1:RB:185:ARG:HG3	1:RB:204:TYR:HE1	1.81	0.46
1:VB:236:LYS:HE3	1:VB:236:LYS:HB2	1.77	0.46
1:WB:508:PRO:O	1:WB:509:HIS:ND1	2.48	0.46
1:YB:587:THR:HG1	1:YB:588:PHE:N	2.14	0.46
1:AC:505:PRO:HA	1:AC:526:VAL:HG12	1.97	0.46
1:A:679:ARG:HH11	1:A:679:ARG:HG2	1.79	0.46
1:A:790:VAL:HG21	1:C:785:GLN:N	2.29	0.46
1:C:508:PRO:O	1:C:509:HIS:ND1	2.48	0.46
1:E:177:ARG:HH11	1:E:193:GLY:HA2	1.80	0.46
1:F:204:TYR:OH	1:F:210:GLU:OE2	2.30	0.46
1:G:508:PRO:O	1:G:509:HIS:ND1	2.48	0.46
1:G:679:ARG:HH11	1:G:679:ARG:HG2	1.79	0.46
1:H:168:ILE:HD11	1:H:174:LEU:HB2	1.96	0.46
1:H:177:ARG:HH11	1:H:193:GLY:HA2	1.80	0.46
1:H:286:ASP:OD1	1:H:297:GLY:N	2.47	0.46
1:I:655:GLN:HA	1:I:658:VAL:HG23	1.96	0.46
1:J:15:TYR:CZ	1:J:98:PRO:HA	2.50	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:505:PRO:HA	1:J:526:VAL:HG12	1.97	0.46
1:J:508:PRO:O	1:J:509:HIS:ND1	2.48	0.46
1:L:16:ILE:HD12	1:L:43:VAL:HG23	1.96	0.46
1:M:505:PRO:HA	1:M:526:VAL:HG12	1.97	0.46
1:M:679:ARG:HH11	1:M:679:ARG:HG2	1.79	0.46
1:N:273:ILE:HG21	1:P:296:LEU:HD22	1.96	0.46
1:R:155:LYS:HG2	1:R:156:GLU:OE1	2.15	0.46
1:S:185:ARG:HG3	1:S:204:TYR:HE1	1.81	0.46
1:T:285:LEU:N	1:T:315:ARG:O	2.41	0.46
1:V:508:PRO:O	1:V:509:HIS:ND1	2.48	0.46
1:X:16:ILE:HD12	1:X:43:VAL:HG23	1.96	0.46
1:X:679:ARG:HH11	1:X:679:ARG:HG2	1.79	0.46
1:Z:518:LEU:HA	1:Z:547:PHE:HD2	1.79	0.46
1:Z:591:PHE:CD1	1:Z:598:ILE:HD11	2.42	0.46
1:AA:185:ARG:HG3	1:AA:204:TYR:HE1	1.81	0.46
1:AA:518:LEU:HA	1:AA:547:PHE:HD2	1.79	0.46
1:CA:786:GLN:O	1:CA:790:VAL:HG23	2.15	0.46
1:EA:16:ILE:HD12	1:EA:43:VAL:HG23	1.96	0.46
1:EA:786:GLN:O	1:EA:790:VAL:HG23	2.15	0.46
1:FA:229:LEU:HD13	1:FA:265:GLU:HB3	1.97	0.46
1:GA:786:GLN:O	1:GA:790:VAL:HG23	2.15	0.46
1:IA:16:ILE:HD12	1:IA:43:VAL:HG23	1.96	0.46
1:JA:177:ARG:HH11	1:JA:193:GLY:HA2	1.80	0.46
1:JA:679:ARG:HH11	1:JA:679:ARG:HG2	1.80	0.46
1:KA:652:ASP:OD1	1:KA:652:ASP:N	2.48	0.46
1:KA:679:ARG:HH11	1:KA:679:ARG:HG2	1.79	0.46
1:LA:15:TYR:CZ	1:LA:98:PRO:HA	2.51	0.46
1:MA:15:TYR:CZ	1:MA:98:PRO:HA	2.50	0.46
1:MA:16:ILE:HD12	1:MA:43:VAL:HG23	1.96	0.46
1:MA:508:PRO:O	1:MA:509:HIS:ND1	2.48	0.46
1:MA:518:LEU:HA	1:MA:547:PHE:HD2	1.79	0.46
1:NA:518:LEU:HA	1:NA:547:PHE:HD2	1.80	0.46
1:NA:679:ARG:HH11	1:NA:679:ARG:HG2	1.79	0.46
1:PA:506:LYS:HD3	1:PA:506:LYS:HA	1.81	0.46
1:SA:406:TYR:HH	1:SA:412:GLU:CD	2.18	0.46
1:SA:679:ARG:HH11	1:SA:679:ARG:HG2	1.80	0.46
1:UA:652:ASP:N	1:UA:652:ASP:OD1	2.48	0.46
1:UA:679:ARG:HH11	1:UA:679:ARG:HG2	1.80	0.46
1:VA:15:TYR:CZ	1:VA:98:PRO:HA	2.51	0.46
1:XA:229:LEU:HD13	1:XA:265:GLU:HB3	1.97	0.46
1:YA:155:LYS:HG2	1:YA:156:GLU:OE1	2.15	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AB:177:ARG:HH11	1:AB:193:GLY:HA2	1.80	0.46
1:CB:15:TYR:CZ	1:CB:98:PRO:HA	2.51	0.46
1:DB:679:ARG:HH11	1:DB:679:ARG:HG2	1.80	0.46
1:EB:15:TYR:CZ	1:EB:98:PRO:HA	2.51	0.46
1:EB:236:LYS:HB2	1:EB:236:LYS:HE3	1.77	0.46
1:FB:168:ILE:HD11	1:FB:174:LEU:HB2	1.96	0.46
1:FB:587:THR:HG1	1:FB:588:PHE:N	2.14	0.46
1:GB:185:ARG:HG3	1:GB:204:TYR:HE1	1.81	0.46
1:HB:533:ASP:CG	1:HB:587:THR:HG1	2.15	0.46
1:HB:753:ILE:HG13	1:HB:756:GLU:CB	2.43	0.46
1:JB:155:LYS:HG2	1:JB:156:GLU:OE1	2.15	0.46
1:JB:185:ARG:HG3	1:JB:204:TYR:HE1	1.81	0.46
1:JB:518:LEU:HA	1:JB:547:PHE:HD2	1.79	0.46
1:KB:15:TYR:CZ	1:KB:98:PRO:HA	2.50	0.46
1:KB:652:ASP:OD1	1:KB:652:ASP:N	2.48	0.46
1:LB:681:GLU:OE1	1:MB:675:HIS:CD2	2.69	0.46
1:LB:688:LEU:HG	1:MB:682:GLN:HG2	1.97	0.46
1:MB:702:ALA:HB3	1:NB:693:ILE:HG21	1.97	0.46
1:OB:278:PRO:CG	1:PB:299:LYS:HG2	2.15	0.46
1:OB:307:SER:OG	1:PB:296:LEU:HB3	2.11	0.46
1:OB:508:PRO:O	1:OB:509:HIS:ND1	2.48	0.46
1:SB:666:THR:HG22	1:TB:657:SER:CB	2.36	0.46
1:TB:508:PRO:O	1:TB:509:HIS:ND1	2.48	0.46
1:TB:679:ARG:HH11	1:TB:679:ARG:HG2	1.79	0.46
1:TB:786:GLN:O	1:TB:790:VAL:HG23	2.15	0.46
1:WB:518:LEU:HA	1:WB:547:PHE:HD2	1.80	0.46
1:WB:652:ASP:OD1	1:WB:652:ASP:N	2.48	0.46
1:XB:15:TYR:CZ	1:XB:98:PRO:HA	2.50	0.46
1:XB:229:LEU:HD13	1:XB:265:GLU:HB3	1.97	0.46
1:XB:508:PRO:O	1:XB:509:HIS:ND1	2.48	0.46
1:YB:16:ILE:HD12	1:YB:43:VAL:HG23	1.96	0.46
1:YB:299:LYS:NZ	1:YB:317:GLU:OE2	2.32	0.46
1:YB:803:GLY:O	1:YB:807:ILE:HG22	2.14	0.46
1:ZB:16:ILE:HD12	1:ZB:43:VAL:HG23	1.96	0.46
1:AC:204:TYR:OH	1:AC:210:GLU:OE2	2.30	0.46
1:AC:508:PRO:O	1:AC:509:HIS:ND1	2.48	0.46
1:AC:652:ASP:N	1:AC:652:ASP:OD1	2.48	0.46
1:B:154:GLN:HB2	1:B:157:VAL:HG22	1.95	0.46
1:B:229:LEU:HD13	1:B:265:GLU:HB3	1.98	0.46
1:D:682:GLN:OE1	1:D:685:ARG:NH2	2.41	0.46
1:E:155:LYS:HG2	1:E:156:GLU:OE1	2.15	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:707:LEU:HA	1:E:707:LEU:HD23	1.74	0.46
1:H:229:LEU:HD13	1:H:265:GLU:HB3	1.97	0.46
1:L:96:PRO:CD	1:N:85:HIS:NE2	2.69	0.46
1:L:185:ARG:HG3	1:L:204:TYR:HE1	1.81	0.46
1:N:168:ILE:HD11	1:N:174:LEU:HB2	1.96	0.46
1:N:185:ARG:HG3	1:N:204:TYR:HE1	1.81	0.46
1:O:155:LYS:HG2	1:O:156:GLU:OE1	2.15	0.46
1:O:679:ARG:HH11	1:O:679:ARG:HG2	1.80	0.46
1:P:406:TYR:HH	1:P:412:GLU:CD	2.18	0.46
1:R:95:ASP:HA	1:T:85:HIS:CD2	2.50	0.46
1:R:203:ALA:HB2	1:T:192:THR:HG21	1.95	0.46
1:S:52:THR:HG21	1:V:85:HIS:HD2	1.80	0.46
1:S:229:LEU:HD13	1:S:265:GLU:HB3	1.97	0.46
1:S:518:LEU:HA	1:S:547:PHE:HD2	1.80	0.46
1:T:15:TYR:CZ	1:T:98:PRO:HA	2.51	0.46
1:T:518:LEU:HA	1:T:547:PHE:HD2	1.79	0.46
1:V:155:LYS:HG2	1:V:156:GLU:OE1	2.15	0.46
1:V:505:PRO:HA	1:V:526:VAL:HG12	1.97	0.46
1:V:518:LEU:HA	1:V:547:PHE:HD2	1.80	0.46
1:V:786:GLN:O	1:V:790:VAL:HG23	2.15	0.46
1:W:91:ARG:NH1	1:W:94:GLN:OE1	2.38	0.46
1:W:679:ARG:HH11	1:W:679:ARG:HG2	1.79	0.46
1:X:283:VAL:HG22	1:X:301:VAL:HG12	1.95	0.46
1:Y:229:LEU:HD13	1:Y:265:GLU:HB3	1.98	0.46
1:Z:168:ILE:HD11	1:Z:174:LEU:HB2	1.96	0.46
1:AA:229:LEU:HD13	1:AA:265:GLU:HB3	1.97	0.46
1:AA:505:PRO:HA	1:AA:526:VAL:HG12	1.97	0.46
1:DA:16:ILE:HD12	1:DA:43:VAL:HG23	1.96	0.46
1:EA:15:TYR:CZ	1:EA:98:PRO:HA	2.51	0.46
1:EA:204:TYR:OH	1:EA:210:GLU:OE2	2.30	0.46
1:FA:185:ARG:HG3	1:FA:204:TYR:HE1	1.81	0.46
1:HA:229:LEU:HD13	1:HA:265:GLU:HB3	1.97	0.46
1:HA:505:PRO:HA	1:HA:526:VAL:HG12	1.97	0.46
1:IA:757:ALA:CB	1:KA:748:ALA:HB1	2.44	0.46
1:JA:185:ARG:HG3	1:JA:204:TYR:HE1	1.81	0.46
1:JA:786:GLN:O	1:JA:790:VAL:HG23	2.15	0.46
1:LA:753:ILE:HG13	1:LA:756:GLU:CB	2.43	0.46
1:MA:177:ARG:HH11	1:MA:193:GLY:HA2	1.80	0.46
1:QA:505:PRO:HA	1:QA:526:VAL:HG12	1.97	0.46
1:QA:533:ASP:CG	1:QA:587:THR:HG1	2.13	0.46
1:TA:15:TYR:CZ	1:TA:98:PRO:HA	2.51	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:TA:587:THR:HG1	1:TA:588:PHE:N	2.14	0.46
1:UA:15:TYR:CZ	1:UA:98:PRO:HA	2.50	0.46
1:VA:185:ARG:HG3	1:VA:204:TYR:HE1	1.80	0.46
1:AB:15:TYR:CZ	1:AB:98:PRO:HA	2.50	0.46
1:BB:728:SER:CB	1:CB:718:SER:HB2	2.43	0.46
1:CB:155:LYS:HG2	1:CB:156:GLU:OE1	2.15	0.46
1:CB:508:PRO:O	1:CB:509:HIS:ND1	2.48	0.46
1:EB:16:ILE:HD12	1:EB:43:VAL:HG23	1.96	0.46
1:FB:508:PRO:O	1:FB:509:HIS:ND1	2.48	0.46
1:FB:652:ASP:OD1	1:FB:652:ASP:N	2.48	0.46
1:HB:655:GLN:HA	1:HB:658:VAL:HG23	1.96	0.46
1:JB:15:TYR:CZ	1:JB:98:PRO:HA	2.51	0.46
1:JB:522:PHE:CG	1:KB:573:LYS:HE2	2.48	0.46
1:KB:592:HIS:HA	1:KB:595:SER:OG	2.16	0.46
1:KB:786:GLN:O	1:KB:790:VAL:HG23	2.15	0.46
1:LB:464:HIS:HD2	1:MB:469:GLN:CD	2.18	0.46
1:MB:753:ILE:HG23	1:NB:744:ALA:CB	2.26	0.46
1:OB:229:LEU:HD13	1:OB:265:GLU:HB3	1.97	0.46
1:OB:363:LEU:C	1:PB:353:ALA:HB3	2.34	0.46
1:OB:652:ASP:OD1	1:OB:652:ASP:N	2.48	0.46
1:OB:655:GLN:HE21	1:PB:649:ARG:CB	2.28	0.46
1:SB:15:TYR:CZ	1:SB:98:PRO:HA	2.50	0.46
1:UB:155:LYS:HG2	1:UB:156:GLU:OE1	2.15	0.46
1:UB:177:ARG:HH11	1:UB:193:GLY:HA2	1.80	0.46
1:UB:185:ARG:HG3	1:UB:204:TYR:HE1	1.81	0.46
1:UB:652:ASP:OD1	1:UB:652:ASP:N	2.48	0.46
1:VB:16:ILE:HD12	1:VB:43:VAL:HG23	1.96	0.46
1:VB:687:ARG:HH12	1:WB:679:ARG:HH12	1.54	0.46
1:WB:15:TYR:CZ	1:WB:98:PRO:HA	2.51	0.46
1:YB:505:PRO:HA	1:YB:526:VAL:HG12	1.97	0.46
1:YB:508:PRO:O	1:YB:509:HIS:ND1	2.48	0.46
1:YB:652:ASP:OD1	1:YB:652:ASP:N	2.48	0.46
1:AC:707:LEU:HD23	1:AC:707:LEU:HA	1.74	0.46
1:B:279:ARG:NE	1:D:338:GLN:CA	2.78	0.46
1:B:662:ILE:HG23	1:D:533:ASP:HB3	1.98	0.46
1:B:768:MET:HE2	1:D:762:VAL:CG2	2.45	0.46
1:C:707:LEU:HD23	1:C:707:LEU:HA	1.74	0.46
1:C:753:ILE:HG21	1:E:745:LYS:CD	2.46	0.46
1:D:15:TYR:CZ	1:D:98:PRO:HA	2.50	0.46
1:F:15:TYR:CZ	1:F:98:PRO:HA	2.50	0.46
1:F:518:LEU:HA	1:F:547:PHE:HD2	1.79	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:16:ILE:HD12	1:G:43:VAL:HG23	1.96	0.46
1:H:518:LEU:HA	1:H:547:PHE:HD2	1.79	0.46
1:H:652:ASP:OD1	1:H:652:ASP:N	2.48	0.46
1:I:592:HIS:HA	1:I:595:SER:OG	2.16	0.46
1:J:652:ASP:N	1:J:652:ASP:OD1	2.48	0.46
1:K:518:LEU:HA	1:K:547:PHE:HD2	1.80	0.46
1:K:587:THR:HG1	1:K:588:PHE:N	2.14	0.46
1:L:15:TYR:CZ	1:L:98:PRO:HA	2.51	0.46
1:L:592:HIS:HA	1:L:595:SER:OG	2.16	0.46
1:L:786:GLN:O	1:L:790:VAL:HG23	2.15	0.46
1:M:592:HIS:HA	1:M:595:SER:OG	2.16	0.46
1:Q:655:GLN:HA	1:Q:658:VAL:HG23	1.96	0.46
1:Q:682:GLN:OE1	1:Q:685:ARG:NH2	2.41	0.46
1:V:768:MET:SD	1:X:759:LEU:CD1	3.02	0.46
1:W:229:LEU:HD13	1:W:265:GLU:HB3	1.97	0.46
1:Y:786:GLN:O	1:Y:790:VAL:HG23	2.15	0.46
1:Z:229:LEU:HD13	1:Z:265:GLU:HB3	1.97	0.46
1:DA:591:PHE:CD1	1:DA:598:ILE:HD11	2.42	0.46
1:EA:505:PRO:HA	1:EA:526:VAL:HG12	1.97	0.46
1:GA:679:ARG:HH11	1:GA:679:ARG:HG2	1.79	0.46
1:HA:592:HIS:HA	1:HA:595:SER:OG	2.16	0.46
1:IA:185:ARG:HG3	1:IA:204:TYR:HE1	1.81	0.46
1:KA:155:LYS:HG2	1:KA:156:GLU:OE1	2.15	0.46
1:LA:168:ILE:HD11	1:LA:174:LEU:HB2	1.96	0.46
1:PA:15:TYR:CZ	1:PA:98:PRO:HA	2.50	0.46
1:QA:155:LYS:HG2	1:QA:156:GLU:OE1	2.15	0.46
1:QA:508:PRO:O	1:QA:509:HIS:ND1	2.48	0.46
1:QA:803:GLY:O	1:QA:807:ILE:HG22	2.14	0.46
1:RA:285:LEU:N	1:RA:315:ARG:O	2.41	0.46
1:RA:505:PRO:HA	1:RA:526:VAL:HG12	1.97	0.46
1:SA:168:ILE:HD11	1:SA:174:LEU:HB2	1.96	0.46
1:SA:299:LYS:NZ	1:SA:317:GLU:OE2	2.32	0.46
1:SA:505:PRO:HA	1:SA:526:VAL:HG12	1.97	0.46
1:TA:591:PHE:CD1	1:TA:598:ILE:HD11	2.42	0.46
1:XA:15:TYR:CZ	1:XA:98:PRO:HA	2.51	0.46
1:YA:229:LEU:HD13	1:YA:265:GLU:HB3	1.97	0.46
1:BB:15:TYR:CZ	1:BB:98:PRO:HA	2.50	0.46
1:BB:229:LEU:HD13	1:BB:265:GLU:HB3	1.98	0.46
1:BB:518:LEU:HA	1:BB:547:PHE:HD2	1.79	0.46
1:CB:591:PHE:CD1	1:CB:598:ILE:HD11	2.42	0.46
1:CB:753:ILE:HG13	1:CB:756:GLU:CB	2.43	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:DB:720:GLY:O	1:EB:711:ALA:HB1	2.14	0.46
1:EB:155:LYS:HG2	1:EB:156:GLU:OE1	2.15	0.46
1:FB:204:TYR:OH	1:FB:210:GLU:OE2	2.30	0.46
1:FB:688:LEU:HD12	1:GB:679:ARG:NH1	2.30	0.46
1:GB:655:GLN:HA	1:GB:658:VAL:HG23	1.96	0.46
1:IB:177:ARG:HH11	1:IB:193:GLY:HA2	1.80	0.46
1:IB:533:ASP:OD2	1:IB:587:THR:OG1	2.17	0.46
1:JB:16:ILE:HD12	1:JB:43:VAL:HG23	1.96	0.46
1:MB:786:GLN:O	1:MB:790:VAL:HG23	2.15	0.46
1:NB:177:ARG:HH11	1:NB:193:GLY:HA2	1.80	0.46
1:OB:177:ARG:HH11	1:OB:193:GLY:HA2	1.80	0.46
1:OB:278:PRO:HG3	1:PB:299:LYS:CD	2.46	0.46
1:OB:307:SER:OG	1:PB:296:LEU:CA	2.63	0.46
1:OB:587:THR:HG1	1:OB:588:PHE:N	2.14	0.46
1:PB:786:GLN:O	1:PB:790:VAL:HG23	2.15	0.46
1:RB:652:ASP:OD1	1:RB:652:ASP:N	2.48	0.46
1:TB:91:ARG:NH1	1:TB:94:GLN:OE1	2.39	0.46
1:TB:587:THR:HG1	1:TB:588:PHE:N	2.13	0.46
1:VB:155:LYS:HG2	1:VB:156:GLU:OE1	2.15	0.46
1:VB:652:ASP:OD1	1:VB:652:ASP:N	2.48	0.46
1:ZB:15:TYR:CZ	1:ZB:98:PRO:HA	2.50	0.46
1:ZB:229:LEU:HD13	1:ZB:265:GLU:HB3	1.98	0.46
1:C:652:ASP:OD1	1:C:652:ASP:N	2.48	0.46
1:D:652:ASP:OD1	1:D:652:ASP:N	2.48	0.46
1:E:720:GLY:CA	1:G:711:ALA:HB1	2.45	0.46
1:I:155:LYS:HG2	1:I:156:GLU:OE1	2.15	0.46
1:K:753:ILE:HG13	1:K:756:GLU:CB	2.43	0.46
1:M:185:ARG:HG3	1:M:204:TYR:HE1	1.81	0.46
1:N:155:LYS:HG2	1:N:156:GLU:OE1	2.15	0.46
1:O:786:GLN:O	1:O:790:VAL:HG23	2.15	0.46
1:P:713:SER:OG	1:R:707:LEU:HD12	2.15	0.46
1:Q:15:TYR:CZ	1:Q:98:PRO:HA	2.50	0.46
1:S:286:ASP:OD1	1:S:297:GLY:N	2.47	0.46
1:T:592:HIS:HA	1:T:595:SER:OG	2.16	0.46
1:V:592:HIS:HA	1:V:595:SER:OG	2.16	0.46
1:V:655:GLN:HA	1:V:658:VAL:HG23	1.96	0.46
1:W:592:HIS:HA	1:W:595:SER:OG	2.16	0.46
1:X:185:ARG:HG3	1:X:204:TYR:HE1	1.81	0.46
1:X:592:HIS:HA	1:X:595:SER:OG	2.16	0.46
1:Z:155:LYS:HG2	1:Z:156:GLU:OE1	2.15	0.46
1:AA:204:TYR:OH	1:AA:210:GLU:OE2	2.30	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:BA:505:PRO:HA	1:BA:526:VAL:HG12	1.97	0.46
1:CA:652:ASP:OD1	1:CA:652:ASP:N	2.48	0.46
1:CA:753:ILE:HG13	1:CA:756:GLU:CB	2.43	0.46
1:IA:155:LYS:HG2	1:IA:156:GLU:OE1	2.15	0.46
1:IA:655:GLN:HA	1:IA:658:VAL:HG23	1.96	0.46
1:IA:786:GLN:O	1:IA:790:VAL:HG23	2.15	0.46
1:KA:508:PRO:O	1:KA:509:HIS:ND1	2.48	0.46
1:NA:229:LEU:HD13	1:NA:265:GLU:HB3	1.97	0.46
1:NA:505:PRO:HA	1:NA:526:VAL:HG12	1.97	0.46
1:QA:91:ARG:NH1	1:QA:94:GLN:OE1	2.39	0.46
1:RA:168:ILE:HD11	1:RA:174:LEU:HB2	1.96	0.46
1:RA:185:ARG:HG3	1:RA:204:TYR:HE1	1.81	0.46
1:SA:15:TYR:CZ	1:SA:98:PRO:HA	2.50	0.46
1:SA:185:ARG:HG3	1:SA:204:TYR:HE1	1.81	0.46
1:SA:236:LYS:HE3	1:SA:236:LYS:HB2	1.77	0.46
1:XA:168:ILE:HD11	1:XA:174:LEU:HB2	1.96	0.46
1:XA:185:ARG:HG3	1:XA:204:TYR:HE1	1.81	0.46
1:XA:703:ARG:HA	1:XA:706:LEU:HB2	1.98	0.46
1:ZA:155:LYS:HG2	1:ZA:156:GLU:OE1	2.15	0.46
1:BB:505:PRO:HA	1:BB:526:VAL:HG12	1.97	0.46
1:CB:204:TYR:OH	1:CB:210:GLU:OE2	2.30	0.46
1:FB:185:ARG:HG3	1:FB:204:TYR:HE1	1.81	0.46
1:FB:520:PRO:HD2	1:GB:563:SER:CB	2.41	0.46
1:FB:651:ARG:C	1:FB:653:ALA:H	2.17	0.46
1:FB:655:GLN:HA	1:FB:658:VAL:HG23	1.96	0.46
1:JB:204:TYR:OH	1:JB:210:GLU:OE2	2.30	0.46
1:JB:655:GLN:HA	1:JB:658:VAL:HG23	1.96	0.46
1:JB:768:MET:HE3	1:KB:763:LYS:HG3	1.98	0.46
1:KB:177:ARG:HH11	1:KB:193:GLY:HA2	1.80	0.46
1:LB:522:PHE:HE2	1:MB:566:ASP:HB3	1.81	0.46
1:MB:155:LYS:HG2	1:MB:156:GLU:OE1	2.15	0.46
1:MB:702:ALA:CB	1:NB:693:ILE:HG21	2.45	0.46
1:PB:229:LEU:HD13	1:PB:265:GLU:HB3	1.97	0.46
1:PB:587:THR:HG1	1:PB:588:PHE:H	1.63	0.46
1:QB:592:HIS:HA	1:QB:595:SER:OG	2.16	0.46
1:QB:655:GLN:HA	1:QB:658:VAL:HG23	1.96	0.46
1:RB:508:PRO:O	1:RB:509:HIS:ND1	2.48	0.46
1:RB:779:LEU:HD13	1:SB:773:ALA:HB1	1.98	0.46
1:SB:286:ASP:OD1	1:SB:297:GLY:N	2.47	0.46
1:TB:229:LEU:HD13	1:TB:265:GLU:HB3	1.97	0.46
1:YB:229:LEU:HD13	1:YB:265:GLU:HB3	1.97	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:YB:703:ARG:HA	1:YB:706:LEU:HB2	1.98	0.46
1:ZB:592:HIS:HA	1:ZB:595:SER:OG	2.16	0.46
1:AC:285:LEU:N	1:AC:315:ARG:O	2.41	0.46
1:A:753:ILE:HG13	1:A:756:GLU:CB	2.43	0.46
1:B:658:VAL:HG21	1:D:534:HIS:O	2.16	0.46
1:C:775:ALA:HA	1:E:770:LEU:CD1	2.46	0.46
1:D:505:PRO:HA	1:D:526:VAL:HG12	1.97	0.46
1:F:655:GLN:HA	1:F:658:VAL:HG23	1.96	0.46
1:G:15:TYR:CZ	1:G:98:PRO:HA	2.50	0.46
1:G:802:LEU:HD21	1:I:795:PHE:CE2	2.43	0.46
1:H:592:HIS:HA	1:H:595:SER:OG	2.16	0.46
1:K:15:TYR:CZ	1:K:98:PRO:HA	2.51	0.46
1:K:508:PRO:O	1:K:509:HIS:ND1	2.48	0.46
1:L:502:ALA:HB3	1:L:510:ALA:HB3	1.98	0.46
1:M:15:TYR:CZ	1:M:98:PRO:HA	2.51	0.46
1:N:15:TYR:CZ	1:N:98:PRO:HA	2.50	0.46
1:N:229:LEU:HD13	1:N:265:GLU:HB3	1.97	0.46
1:P:177:ARG:HH11	1:P:193:GLY:HA2	1.80	0.46
1:P:185:ARG:HG3	1:P:204:TYR:HE1	1.81	0.46
1:P:652:ASP:OD1	1:P:652:ASP:N	2.48	0.46
1:R:185:ARG:HG3	1:R:204:TYR:HE1	1.81	0.46
1:R:786:GLN:O	1:R:790:VAL:HG23	2.15	0.46
1:S:15:TYR:CZ	1:S:98:PRO:HA	2.51	0.46
1:S:592:HIS:HA	1:S:595:SER:OG	2.16	0.46
1:X:505:PRO:HA	1:X:526:VAL:HG12	1.97	0.46
1:Z:703:ARG:HA	1:Z:706:LEU:HB2	1.98	0.46
1:BA:679:ARG:HH11	1:BA:679:ARG:HG2	1.80	0.46
1:FA:15:TYR:CZ	1:FA:98:PRO:HA	2.51	0.46
1:HA:652:ASP:OD1	1:HA:652:ASP:N	2.48	0.46
1:IA:275:THR:HG21	1:KA:296:LEU:CB	2.44	0.46
1:JA:655:GLN:HA	1:JA:658:VAL:HG23	1.96	0.46
1:LA:508:PRO:O	1:LA:509:HIS:ND1	2.48	0.46
1:LA:592:HIS:HA	1:LA:595:SER:OG	2.16	0.46
1:MA:229:LEU:HD13	1:MA:265:GLU:HB3	1.97	0.46
1:OA:185:ARG:HG3	1:OA:204:TYR:HE1	1.81	0.46
1:OA:204:TYR:OH	1:OA:210:GLU:OE2	2.30	0.46
1:OA:786:GLN:O	1:OA:790:VAL:HG23	2.15	0.46
1:QA:518:LEU:HA	1:QA:547:PHE:HD2	1.80	0.46
1:QA:592:HIS:NE2	1:SA:584:ALA:HB1	2.31	0.46
1:RA:8:ILE:HG23	1:RA:37:ARG:HD3	1.98	0.46
1:RA:652:ASP:OD1	1:RA:652:ASP:N	2.48	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:TA:592:HIS:HA	1:TA:595:SER:OG	2.16	0.46
1:UA:155:LYS:HG2	1:UA:156:GLU:OE1	2.15	0.46
1:UA:299:LYS:NZ	1:UA:317:GLU:OE2	2.32	0.46
1:VA:595:SER:HB2	1:XA:580:ARG:HH12	1.81	0.46
1:XA:592:HIS:HA	1:XA:595:SER:OG	2.16	0.46
1:CB:229:LEU:HD13	1:CB:265:GLU:HB3	1.97	0.46
1:EB:505:PRO:HA	1:EB:526:VAL:HG12	1.97	0.46
1:FB:15:TYR:CZ	1:FB:98:PRO:HA	2.50	0.46
1:GB:15:TYR:CZ	1:GB:98:PRO:HA	2.50	0.46
1:GB:652:ASP:OD1	1:GB:652:ASP:N	2.48	0.46
1:HB:155:LYS:HG2	1:HB:156:GLU:OE1	2.15	0.46
1:IB:592:HIS:HA	1:IB:595:SER:OG	2.16	0.46
1:IB:655:GLN:HA	1:IB:658:VAL:HG23	1.96	0.46
1:LB:592:HIS:HA	1:LB:595:SER:OG	2.16	0.46
1:MB:768:MET:HE1	1:NB:763:LYS:HB2	1.96	0.46
1:NB:652:ASP:OD1	1:NB:652:ASP:N	2.48	0.46
1:OB:505:PRO:HA	1:OB:526:VAL:HG12	1.97	0.46
1:QB:168:ILE:HD11	1:QB:174:LEU:HB2	1.96	0.46
1:SB:505:PRO:HA	1:SB:526:VAL:HG12	1.97	0.46
1:TB:299:LYS:NZ	1:TB:317:GLU:OE2	2.32	0.46
1:VB:753:ILE:HG13	1:VB:756:GLU:CB	2.43	0.46
1:VB:786:GLN:O	1:VB:790:VAL:HG23	2.15	0.46
1:WB:8:ILE:HG23	1:WB:37:ARG:HD3	1.98	0.46
1:WB:592:HIS:HA	1:WB:595:SER:OG	2.16	0.46
1:YB:15:TYR:CZ	1:YB:98:PRO:HA	2.50	0.46
1:ZB:505:PRO:HA	1:ZB:526:VAL:HG12	1.97	0.46
1:AC:15:TYR:CZ	1:AC:98:PRO:HA	2.51	0.46
1:A:16:ILE:HD12	1:A:43:VAL:HG23	1.96	0.46
1:A:505:PRO:HA	1:A:526:VAL:HG12	1.97	0.46
1:B:15:TYR:CZ	1:B:98:PRO:HA	2.50	0.46
1:D:257:GLU:OE1	1:F:244:ARG:CZ	2.63	0.46
1:D:484:PRO:O	1:F:471:TYR:CD1	2.65	0.46
1:D:662:ILE:CG1	1:F:654:LEU:CD2	2.89	0.46
1:D:669:GLN:HE22	1:F:661:ALA:CB	2.26	0.46
1:E:652:ASP:OD1	1:E:652:ASP:N	2.48	0.46
1:G:682:GLN:OE1	1:G:685:ARG:NH2	2.41	0.46
1:K:8:ILE:HG23	1:K:37:ARG:HD3	1.98	0.46
1:K:21:GLN:NE2	1:K:39:ASP:HB2	2.31	0.46
1:L:8:ILE:HG23	1:L:37:ARG:HD3	1.98	0.46
1:L:56:ARG:NH1	1:N:128:ASP:HB3	2.30	0.46
1:L:204:TYR:OH	1:L:210:GLU:OE2	2.30	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:703:ARG:HA	1:L:706:LEU:HB2	1.98	0.46
1:M:652:ASP:OD1	1:M:652:ASP:N	2.48	0.46
1:M:703:ARG:HA	1:M:706:LEU:HB2	1.98	0.46
1:N:592:HIS:HA	1:N:595:SER:OG	2.16	0.46
1:O:168:ILE:HD11	1:O:174:LEU:HB2	1.96	0.46
1:P:786:GLN:O	1:P:790:VAL:HG23	2.15	0.46
1:R:505:PRO:HA	1:R:526:VAL:HG12	1.97	0.46
1:T:502:ALA:HB3	1:T:510:ALA:HB3	1.98	0.46
1:V:652:ASP:N	1:V:652:ASP:OD1	2.48	0.46
1:W:703:ARG:HA	1:W:706:LEU:HB2	1.98	0.46
1:X:8:ILE:HG23	1:X:37:ARG:HD3	1.98	0.46
1:X:236:LYS:HE3	1:X:236:LYS:HB2	1.77	0.46
1:AA:177:ARG:HH11	1:AA:193:GLY:HA2	1.80	0.46
1:BA:21:GLN:NE2	1:BA:39:ASP:HB2	2.31	0.46
1:CA:286:ASP:OD1	1:CA:297:GLY:N	2.47	0.46
1:DA:502:ALA:HB3	1:DA:510:ALA:HB3	1.98	0.46
1:EA:155:LYS:HG2	1:EA:156:GLU:OE1	2.15	0.46
1:GA:16:ILE:HD12	1:GA:43:VAL:HG23	1.96	0.46
1:GA:587:THR:HG1	1:GA:588:PHE:N	2.14	0.46
1:HA:768:MET:HE1	1:JA:763:LYS:CA	2.45	0.46
1:KA:15:TYR:CZ	1:KA:98:PRO:HA	2.51	0.46
1:LA:185:ARG:HG3	1:LA:204:TYR:HE1	1.81	0.46
1:LA:652:ASP:OD1	1:LA:652:ASP:N	2.48	0.46
1:MA:652:ASP:N	1:MA:652:ASP:OD1	2.48	0.46
1:OA:177:ARG:HH11	1:OA:193:GLY:HA2	1.80	0.46
1:OA:703:ARG:HA	1:OA:706:LEU:HB2	1.98	0.46
1:PA:229:LEU:HD13	1:PA:265:GLU:HB3	1.97	0.46
1:PA:465:ASN:ND2	1:RA:563:SER:HA	2.24	0.46
1:RA:707:LEU:HD23	1:RA:707:LEU:HA	1.74	0.46
1:RA:753:ILE:HG13	1:RA:756:GLU:CB	2.43	0.46
1:SA:707:LEU:HA	1:SA:707:LEU:HD23	1.74	0.46
1:TA:652:ASP:N	1:TA:652:ASP:OD1	2.48	0.46
1:UA:505:PRO:HA	1:UA:526:VAL:HG12	1.97	0.46
1:UA:508:PRO:O	1:UA:509:HIS:ND1	2.48	0.46
1:VA:786:GLN:O	1:VA:790:VAL:HG23	2.15	0.46
1:WA:592:HIS:HA	1:WA:595:SER:OG	2.16	0.46
1:WA:652:ASP:OD1	1:WA:652:ASP:N	2.48	0.46
1:XA:502:ALA:HB3	1:XA:510:ALA:HB3	1.98	0.46
1:YA:518:LEU:HA	1:YA:547:PHE:HD2	1.80	0.46
1:YA:652:ASP:OD1	1:YA:652:ASP:N	2.48	0.46
1:AB:679:ARG:HH11	1:AB:679:ARG:HG2	1.80	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:DB:21:GLN:NE2	1:DB:39:ASP:HB2	2.31	0.46
1:GB:8:ILE:HG23	1:GB:37:ARG:HD3	1.98	0.46
1:HB:15:TYR:CZ	1:HB:98:PRO:HA	2.51	0.46
1:HB:652:ASP:OD1	1:HB:652:ASP:N	2.48	0.46
1:JB:592:HIS:HA	1:JB:595:SER:OG	2.16	0.46
1:LB:505:PRO:HA	1:LB:526:VAL:HG12	1.97	0.46
1:OB:640:VAL:CG1	1:PB:580:ARG:HH21	2.13	0.46
1:QB:508:PRO:O	1:QB:509:HIS:ND1	2.48	0.46
1:QB:786:GLN:O	1:QB:790:VAL:HG23	2.15	0.46
1:RB:8:ILE:HG23	1:RB:37:ARG:HD3	1.98	0.46
1:SB:155:LYS:HG2	1:SB:156:GLU:OE1	2.15	0.46
1:TB:204:TYR:OH	1:TB:210:GLU:OE2	2.30	0.46
1:UB:592:HIS:HA	1:UB:595:SER:OG	2.16	0.46
1:WB:786:GLN:O	1:WB:790:VAL:HG23	2.15	0.46
1:XB:185:ARG:HG3	1:XB:204:TYR:HE1	1.81	0.46
1:AC:229:LEU:HD13	1:AC:265:GLU:HB3	1.97	0.46
1:C:65:VAL:HG12	1:C:83:LEU:HD23	1.98	0.46
1:C:592:HIS:HA	1:C:595:SER:OG	2.16	0.46
1:D:8:ILE:HG23	1:D:37:ARG:HD3	1.98	0.46
1:D:21:GLN:NE2	1:D:39:ASP:HB2	2.31	0.46
1:D:222:THR:CG2	1:F:247:GLU:HA	2.45	0.46
1:D:502:ALA:HB3	1:D:510:ALA:HB3	1.98	0.46
1:D:508:PRO:O	1:D:509:HIS:ND1	2.48	0.46
1:F:8:ILE:HG23	1:F:37:ARG:HD3	1.98	0.46
1:G:502:ALA:HB3	1:G:510:ALA:HB3	1.98	0.46
1:G:813:ALA:HB1	1:I:811:ALA:O	2.14	0.46
1:H:508:PRO:O	1:H:509:HIS:ND1	2.48	0.46
1:H:768:MET:SD	1:J:759:LEU:HD11	2.56	0.46
1:I:15:TYR:CZ	1:I:98:PRO:HA	2.51	0.46
1:I:185:ARG:HG3	1:I:204:TYR:HE1	1.80	0.46
1:J:703:ARG:HA	1:J:706:LEU:HB2	1.98	0.46
1:K:651:ARG:C	1:K:653:ALA:H	2.17	0.46
1:K:703:ARG:HA	1:K:706:LEU:HB2	1.98	0.46
1:M:8:ILE:HG23	1:M:37:ARG:HD3	1.98	0.46
1:O:15:TYR:CZ	1:O:98:PRO:HA	2.51	0.46
1:Q:155:LYS:HG2	1:Q:156:GLU:OE1	2.15	0.46
1:R:652:ASP:N	1:R:652:ASP:OD1	2.48	0.46
1:R:655:GLN:HE21	1:T:649:ARG:HB2	1.81	0.46
1:V:15:TYR:CZ	1:V:98:PRO:HA	2.51	0.46
1:V:21:GLN:NE2	1:V:39:ASP:HB2	2.31	0.46
1:X:15:TYR:CZ	1:X:98:PRO:HA	2.51	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Y:505:PRO:HA	1:Y:526:VAL:HG12	1.97	0.46
1:Z:185:ARG:HG3	1:Z:204:TYR:HE1	1.81	0.46
1:Z:652:ASP:OD1	1:Z:652:ASP:N	2.48	0.46
1:AA:786:GLN:O	1:AA:790:VAL:HG23	2.15	0.46
1:BA:652:ASP:OD1	1:BA:652:ASP:N	2.48	0.46
1:BA:768:MET:HE3	1:DA:763:LYS:HB2	1.98	0.46
1:BA:786:GLN:O	1:BA:790:VAL:HG23	2.15	0.46
1:CA:229:LEU:HD13	1:CA:265:GLU:HB3	1.97	0.46
1:FA:16:ILE:HD12	1:FA:43:VAL:HG23	1.96	0.46
1:GA:185:ARG:HG3	1:GA:204:TYR:HE1	1.81	0.46
1:HA:21:GLN:NE2	1:HA:39:ASP:HB2	2.31	0.46
1:HA:285:LEU:N	1:HA:315:ARG:O	2.41	0.46
1:JA:502:ALA:HB3	1:JA:510:ALA:HB3	1.98	0.46
1:KA:16:ILE:HD12	1:KA:43:VAL:HG23	1.96	0.46
1:LA:285:LEU:N	1:LA:315:ARG:O	2.41	0.46
1:LA:587:THR:HG1	1:LA:588:PHE:N	2.14	0.46
1:MA:706:LEU:CD2	1:OA:693:ILE:HD12	2.45	0.46
1:NA:155:LYS:HG2	1:NA:156:GLU:OE1	2.15	0.46
1:OA:229:LEU:HD13	1:OA:265:GLU:HB3	1.98	0.46
1:QA:15:TYR:CZ	1:QA:98:PRO:HA	2.50	0.46
1:QA:502:ALA:HB3	1:QA:510:ALA:HB3	1.98	0.46
1:QA:703:ARG:HA	1:QA:706:LEU:HB2	1.98	0.46
1:RA:15:TYR:CZ	1:RA:98:PRO:HA	2.50	0.46
1:RA:21:GLN:NE2	1:RA:39:ASP:HB2	2.31	0.46
1:SA:21:GLN:NE2	1:SA:39:ASP:HB2	2.31	0.46
1:VA:229:LEU:HD13	1:VA:265:GLU:HB3	1.97	0.46
1:XA:652:ASP:N	1:XA:652:ASP:OD1	2.48	0.46
1:YA:786:GLN:O	1:YA:790:VAL:HG23	2.15	0.46
1:CB:703:ARG:HA	1:CB:706:LEU:HB2	1.98	0.46
1:DB:177:ARG:HH11	1:DB:193:GLY:HA2	1.80	0.46
1:DB:592:HIS:HA	1:DB:595:SER:OG	2.16	0.46
1:DB:703:ARG:HA	1:DB:706:LEU:HB2	1.98	0.46
1:FB:703:ARG:HA	1:FB:706:LEU:HB2	1.98	0.46
1:GB:502:ALA:HB3	1:GB:510:ALA:HB3	1.98	0.46
1:HB:16:ILE:HD12	1:HB:43:VAL:HG23	1.96	0.46
1:IB:21:GLN:NE2	1:IB:39:ASP:HB2	2.31	0.46
1:JB:8:ILE:HG23	1:JB:37:ARG:HD3	1.98	0.46
1:JB:703:ARG:HA	1:JB:706:LEU:HB2	1.98	0.46
1:KB:286:ASP:OD1	1:KB:297:GLY:N	2.47	0.46
1:KB:502:ALA:HB3	1:KB:510:ALA:HB3	1.98	0.46
1:KB:505:PRO:HA	1:KB:526:VAL:HG12	1.97	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:LB:508:PRO:O	1:LB:509:HIS:ND1	2.48	0.46
1:LB:652:ASP:N	1:LB:652:ASP:OD1	2.48	0.46
1:MB:8:ILE:HG23	1:MB:37:ARG:HD3	1.98	0.46
1:MB:679:ARG:HH11	1:MB:679:ARG:HG2	1.80	0.46
1:OB:8:ILE:HG23	1:OB:37:ARG:HD3	1.98	0.46
1:OB:16:ILE:HD12	1:OB:43:VAL:HG23	1.96	0.46
1:OB:325:VAL:HG11	1:PB:337:LEU:CD2	2.46	0.46
1:OB:738:GLU:OE2	1:PB:734:ARG:CZ	2.64	0.46
1:PB:8:ILE:HG23	1:PB:37:ARG:HD3	1.98	0.46
1:PB:592:HIS:HA	1:PB:595:SER:OG	2.16	0.46
1:QB:591:PHE:CD1	1:QB:598:ILE:HD11	2.42	0.46
1:RB:484:PRO:O	1:SB:473:TYR:CE1	2.68	0.46
1:RB:739:GLY:CA	1:SB:734:ARG:NH2	2.65	0.46
1:SB:229:LEU:HD13	1:SB:265:GLU:HB3	1.97	0.46
1:TB:640:VAL:O	1:UB:580:ARG:NH2	2.49	0.46
1:TB:652:ASP:N	1:TB:652:ASP:OD1	2.48	0.46
1:UB:703:ARG:HA	1:UB:706:LEU:HB2	1.98	0.46
1:UB:793:LYS:CE	1:VB:792:ALA:HB1	2.46	0.46
1:VB:185:ARG:HG3	1:VB:204:TYR:HE1	1.81	0.46
1:VB:502:ALA:HB3	1:VB:510:ALA:HB3	1.98	0.46
1:XB:258:ALA:HB2	1:YB:245:THR:OG1	2.14	0.46
1:XB:679:ARG:HH11	1:XB:679:ARG:HG2	1.80	0.46
1:XB:786:GLN:O	1:XB:790:VAL:HG23	2.15	0.46
1:YB:65:VAL:HG12	1:YB:83:LEU:HD23	1.98	0.46
1:YB:185:ARG:HG3	1:YB:204:TYR:HE1	1.81	0.46
1:ZB:502:ALA:HB3	1:ZB:510:ALA:HB3	1.98	0.46
1:A:21:GLN:NE2	1:A:39:ASP:HB2	2.31	0.46
1:C:505:PRO:HA	1:C:526:VAL:HG12	1.97	0.46
1:C:798:MET:N	1:E:792:ALA:HB1	2.31	0.46
1:C:805:GLY:HA2	1:C:808:ARG:NE	2.31	0.46
1:D:257:GLU:HB2	1:F:244:ARG:CD	2.46	0.46
1:E:15:TYR:CZ	1:E:98:PRO:HA	2.51	0.46
1:E:505:PRO:HA	1:E:526:VAL:HG12	1.97	0.46
1:E:655:GLN:HA	1:E:658:VAL:HG23	1.96	0.46
1:F:592:HIS:HA	1:F:595:SER:OG	2.16	0.46
1:G:185:ARG:HG3	1:G:204:TYR:HE1	1.81	0.46
1:G:229:LEU:HD13	1:G:265:GLU:HB3	1.97	0.46
1:I:508:PRO:O	1:I:509:HIS:ND1	2.48	0.46
1:J:786:GLN:O	1:J:790:VAL:HG23	2.15	0.46
1:L:177:ARG:HH11	1:L:193:GLY:HA2	1.80	0.46
1:L:813:ALA:HB2	1:N:811:ALA:C	2.34	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:21:GLN:NE2	1:N:39:ASP:HB2	2.31	0.46
1:N:652:ASP:N	1:N:652:ASP:OD1	2.48	0.46
1:O:21:GLN:NE2	1:O:39:ASP:HB2	2.31	0.46
1:O:505:PRO:HA	1:O:526:VAL:HG12	1.97	0.46
1:P:15:TYR:CZ	1:P:98:PRO:HA	2.50	0.46
1:P:679:ARG:HH11	1:P:679:ARG:HG2	1.80	0.46
1:Q:185:ARG:HG3	1:Q:204:TYR:HE1	1.81	0.46
1:Q:229:LEU:HD13	1:Q:265:GLU:HB3	1.97	0.46
1:Q:502:ALA:HB3	1:Q:510:ALA:HB3	1.98	0.46
1:R:65:VAL:HG12	1:R:83:LEU:HD23	1.98	0.46
1:R:592:HIS:HA	1:R:595:SER:OG	2.16	0.46
1:S:753:ILE:HG13	1:S:756:GLU:CB	2.43	0.46
1:W:518:LEU:HA	1:W:547:PHE:HD2	1.79	0.46
1:Y:533:ASP:CG	1:Y:587:THR:HG1	2.14	0.46
1:AA:406:TYR:HH	1:AA:412:GLU:CD	2.18	0.46
1:AA:703:ARG:HA	1:AA:706:LEU:HB2	1.98	0.46
1:BA:15:TYR:CZ	1:BA:98:PRO:HA	2.51	0.46
1:CA:21:GLN:NE2	1:CA:39:ASP:HB2	2.31	0.46
1:CA:204:TYR:OH	1:CA:210:GLU:OE2	2.30	0.46
1:DA:185:ARG:HG3	1:DA:204:TYR:HE1	1.81	0.46
1:DA:592:HIS:HA	1:DA:595:SER:OG	2.16	0.46
1:EA:65:VAL:HG12	1:EA:83:LEU:HD23	1.98	0.46
1:EA:592:HIS:HA	1:EA:595:SER:OG	2.16	0.46
1:EA:652:ASP:N	1:EA:652:ASP:OD1	2.48	0.46
1:GA:652:ASP:OD1	1:GA:652:ASP:N	2.48	0.46
1:HA:703:ARG:HA	1:HA:706:LEU:HB2	1.98	0.46
1:IA:8:ILE:HG23	1:IA:37:ARG:HD3	1.98	0.46
1:JA:592:HIS:HA	1:JA:595:SER:OG	2.16	0.46
1:KA:229:LEU:HD13	1:KA:265:GLU:HB3	1.98	0.46
1:MA:185:ARG:HG3	1:MA:204:TYR:HE1	1.81	0.46
1:NA:15:TYR:CZ	1:NA:98:PRO:HA	2.51	0.46
1:OA:8:ILE:HG23	1:OA:37:ARG:HD3	1.98	0.46
1:OA:652:ASP:OD1	1:OA:652:ASP:N	2.48	0.46
1:PA:65:VAL:HG12	1:PA:83:LEU:HD23	1.98	0.46
1:SA:652:ASP:OD1	1:SA:652:ASP:N	2.48	0.46
1:UA:502:ALA:HB3	1:UA:510:ALA:HB3	1.98	0.46
1:UA:651:ARG:C	1:UA:653:ALA:H	2.17	0.46
1:VA:65:VAL:HG12	1:VA:83:LEU:HD23	1.98	0.46
1:ZA:651:ARG:C	1:ZA:653:ALA:H	2.17	0.46
1:ZA:652:ASP:OD1	1:ZA:652:ASP:N	2.48	0.46
1:BB:21:GLN:NE2	1:BB:39:ASP:HB2	2.31	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:BB:786:GLN:O	1:BB:790:VAL:HG23	2.15	0.46
1:CB:592:HIS:HA	1:CB:595:SER:OG	2.16	0.46
1:DB:204:TYR:OH	1:DB:210:GLU:OE2	2.30	0.46
1:DB:786:GLN:O	1:DB:790:VAL:HG23	2.15	0.46
1:EB:204:TYR:OH	1:EB:210:GLU:OE2	2.30	0.46
1:EB:728:SER:HA	1:FB:719:THR:HA	1.98	0.46
1:HB:65:VAL:HG12	1:HB:83:LEU:HD23	1.98	0.46
1:HB:502:ALA:HB3	1:HB:510:ALA:HB3	1.98	0.46
1:HB:508:PRO:O	1:HB:509:HIS:ND1	2.48	0.46
1:IB:15:TYR:CZ	1:IB:98:PRO:HA	2.51	0.46
1:LB:21:GLN:NE2	1:LB:39:ASP:HB2	2.31	0.46
1:LB:65:VAL:HG12	1:LB:83:LEU:HD23	1.98	0.46
1:LB:750:ALA:HB2	1:MB:741:VAL:HA	1.98	0.46
1:MB:168:ILE:HD11	1:MB:174:LEU:HB2	1.96	0.46
1:NB:502:ALA:HB3	1:NB:510:ALA:HB3	1.98	0.46
1:OB:236:LYS:HE3	1:OB:236:LYS:HB2	1.77	0.46
1:OB:273:ILE:CG2	1:PB:296:LEU:HD21	2.46	0.46
1:OB:502:ALA:HB3	1:OB:510:ALA:HB3	1.98	0.46
1:PB:15:TYR:CZ	1:PB:98:PRO:HA	2.50	0.46
1:PB:21:GLN:NE2	1:PB:39:ASP:HB2	2.31	0.46
1:RB:15:TYR:CZ	1:RB:98:PRO:HA	2.51	0.46
1:RB:592:HIS:HA	1:RB:595:SER:OG	2.16	0.46
1:RB:640:VAL:HG13	1:SB:580:ARG:HH21	1.78	0.46
1:RB:680:LEU:HB3	1:SB:675:HIS:HE1	1.81	0.46
1:RB:703:ARG:HA	1:RB:706:LEU:HB2	1.98	0.46
1:SB:204:TYR:OH	1:SB:210:GLU:OE2	2.30	0.46
1:TB:8:ILE:HG23	1:TB:37:ARG:HD3	1.98	0.46
1:TB:592:HIS:HA	1:TB:595:SER:OG	2.16	0.46
1:WB:505:PRO:HA	1:WB:526:VAL:HG12	1.97	0.46
1:XB:592:HIS:HA	1:XB:595:SER:OG	2.16	0.46
1:XB:652:ASP:N	1:XB:652:ASP:OD1	2.48	0.46
1:YB:286:ASP:OD1	1:YB:297:GLY:N	2.47	0.46
1:YB:591:PHE:CD1	1:YB:598:ILE:HD11	2.42	0.46
1:AC:8:ILE:HG23	1:AC:37:ARG:HD3	1.98	0.46
1:AC:655:GLN:HA	1:AC:658:VAL:HG23	1.96	0.46
1:A:502:ALA:HB3	1:A:510:ALA:HB3	1.98	0.46
1:A:652:ASP:OD1	1:A:652:ASP:N	2.48	0.46
1:A:802:LEU:HD21	1:C:795:PHE:HE2	1.81	0.46
1:B:185:ARG:HG3	1:B:204:TYR:HE1	1.81	0.46
1:D:461:ARG:CD	1:F:494:GLN:HG3	2.43	0.46
1:D:655:GLN:HA	1:D:658:VAL:HG23	1.96	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:743:GLN:HG2	1:F:734:ARG:HH21	1.80	0.46
1:E:694:LEU:O	1:E:697:SER:HB2	2.16	0.46
1:F:502:ALA:HB3	1:F:510:ALA:HB3	1.98	0.46
1:G:694:LEU:O	1:G:697:SER:HB2	2.16	0.46
1:H:786:GLN:O	1:H:790:VAL:HG23	2.15	0.46
1:I:8:ILE:HG23	1:I:37:ARG:HD3	1.98	0.46
1:I:39:ASP:CG	1:VB:39:ASP:CG	2.74	0.46
1:I:229:LEU:HD13	1:I:265:GLU:HB3	1.98	0.46
1:K:16:ILE:HD12	1:K:43:VAL:HG23	1.96	0.46
1:K:805:GLY:HA2	1:K:808:ARG:NE	2.31	0.46
1:N:8:ILE:HG23	1:N:37:ARG:HD3	1.98	0.46
1:O:65:VAL:HG12	1:O:83:LEU:HD23	1.98	0.46
1:P:229:LEU:HD13	1:P:265:GLU:HB3	1.98	0.46
1:Q:508:PRO:O	1:Q:509:HIS:ND1	2.48	0.46
1:Q:592:HIS:HA	1:Q:595:SER:OG	2.16	0.46
1:R:502:ALA:HB3	1:R:510:ALA:HB3	1.98	0.46
1:T:229:LEU:HD13	1:T:265:GLU:HB3	1.97	0.46
1:T:703:ARG:HA	1:T:706:LEU:HB2	1.98	0.46
1:X:28:VAL:HG21	1:X:98:PRO:HB2	1.98	0.46
1:X:204:TYR:OH	1:X:210:GLU:OE2	2.30	0.46
1:Z:15:TYR:CZ	1:Z:98:PRO:HA	2.51	0.46
1:AA:592:HIS:HA	1:AA:595:SER:OG	2.16	0.46
1:BA:65:VAL:HG12	1:BA:83:LEU:HD23	1.98	0.46
1:CA:65:VAL:HG12	1:CA:83:LEU:HD23	1.98	0.46
1:DA:177:ARG:HH11	1:DA:193:GLY:HA2	1.80	0.46
1:DA:679:ARG:HG2	1:DA:679:ARG:HH11	1.80	0.46
1:GA:8:ILE:HG23	1:GA:37:ARG:HD3	1.98	0.46
1:GA:286:ASP:OD1	1:GA:297:GLY:N	2.47	0.46
1:GA:703:ARG:HA	1:GA:706:LEU:HB2	1.98	0.46
1:IA:502:ALA:HB3	1:IA:510:ALA:HB3	1.98	0.46
1:IA:703:ARG:HA	1:IA:706:LEU:HB2	1.98	0.46
1:JA:694:LEU:O	1:JA:697:SER:HB2	2.16	0.46
1:KA:592:HIS:HA	1:KA:595:SER:OG	2.16	0.46
1:LA:694:LEU:O	1:LA:697:SER:HB2	2.17	0.46
1:MA:805:GLY:HA2	1:MA:808:ARG:NE	2.31	0.46
1:OA:286:ASP:OD1	1:OA:297:GLY:N	2.47	0.46
1:QA:786:GLN:O	1:QA:790:VAL:HG23	2.15	0.46
1:RA:587:THR:HG1	1:RA:588:PHE:N	2.14	0.46
1:SA:8:ILE:HG23	1:SA:37:ARG:HD3	1.98	0.46
1:TA:508:PRO:O	1:TA:509:HIS:ND1	2.48	0.46
1:UA:8:ILE:HG23	1:UA:37:ARG:HD3	1.98	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:UA:694:LEU:O	1:UA:697:SER:HB2	2.16	0.46
1:WA:587:THR:HG1	1:WA:588:PHE:N	2.14	0.46
1:WA:651:ARG:C	1:WA:653:ALA:H	2.17	0.46
1:YA:505:PRO:HA	1:YA:526:VAL:HG12	1.97	0.46
1:YA:592:HIS:HA	1:YA:595:SER:OG	2.16	0.46
1:ZA:8:ILE:HG23	1:ZA:37:ARG:HD3	1.98	0.46
1:BB:651:ARG:C	1:BB:653:ALA:H	2.17	0.46
1:BB:679:ARG:HH11	1:BB:679:ARG:HG2	1.79	0.46
1:BB:757:ALA:CB	1:CB:748:ALA:HB1	2.44	0.46
1:CB:805:GLY:HA2	1:CB:808:ARG:NE	2.31	0.46
1:DB:65:VAL:HG12	1:DB:83:LEU:HD23	1.98	0.46
1:DB:673:ALA:HB2	1:EB:664:ILE:HD12	1.95	0.46
1:DB:706:LEU:HD11	1:EB:696:GLN:HB2	1.98	0.46
1:GB:651:ARG:C	1:GB:653:ALA:H	2.17	0.46
1:HB:185:ARG:HG3	1:HB:204:TYR:HE1	1.81	0.46
1:IB:652:ASP:N	1:IB:652:ASP:OD1	2.48	0.46
1:IB:682:GLN:OE1	1:IB:685:ARG:NH2	2.41	0.46
1:IB:786:GLN:O	1:IB:790:VAL:HG23	2.15	0.46
1:KB:185:ARG:HG3	1:KB:204:TYR:HE1	1.81	0.46
1:KB:703:ARG:HA	1:KB:706:LEU:HB2	1.98	0.46
1:LB:15:TYR:CZ	1:LB:98:PRO:HA	2.51	0.46
1:LB:724:ALA:CA	1:MB:715:ALA:CA	2.89	0.46
1:MB:505:PRO:HA	1:MB:526:VAL:HG12	1.97	0.46
1:NB:505:PRO:HA	1:NB:526:VAL:HG12	1.97	0.46
1:OB:746:LEU:CD1	1:PB:737:GLY:CA	2.93	0.46
1:PB:679:ARG:HH11	1:PB:679:ARG:HG2	1.79	0.46
1:QB:8:ILE:HG23	1:QB:37:ARG:HD3	1.98	0.46
1:QB:185:ARG:HG3	1:QB:204:TYR:HE1	1.81	0.46
1:RB:753:ILE:HG13	1:RB:756:GLU:CB	2.43	0.46
1:SB:687:ARG:HH12	1:TB:679:ARG:HH11	1.64	0.46
1:UB:680:LEU:HB3	1:VB:675:HIS:CE1	2.50	0.46
1:XB:8:ILE:HG23	1:XB:37:ARG:HD3	1.98	0.46
1:XB:65:VAL:HG12	1:XB:83:LEU:HD23	1.98	0.46
1:ZB:21:GLN:NE2	1:ZB:39:ASP:HB2	2.31	0.46
1:A:592:HIS:HA	1:A:595:SER:OG	2.16	0.45
1:A:694:LEU:O	1:A:697:SER:HB2	2.16	0.45
1:A:713:SER:O	1:C:707:LEU:HB2	2.17	0.45
1:B:28:VAL:HG21	1:B:98:PRO:HB2	1.99	0.45
1:C:732:ALA:HB1	1:E:726:ALA:HB2	1.97	0.45
1:C:761:ARG:NH2	1:E:755:THR:HG21	2.31	0.45
1:D:12:PRO:HD3	1:F:80:GLN:HG2	1.87	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:652:ASP:HB2	1:F:649:ARG:NH1	2.31	0.45
1:E:28:VAL:HG21	1:E:98:PRO:HB2	1.99	0.45
1:E:592:HIS:HA	1:E:595:SER:OG	2.16	0.45
1:G:8:ILE:HG23	1:G:37:ARG:HD3	1.98	0.45
1:H:779:LEU:HD13	1:J:773:ALA:HB3	1.97	0.45
1:I:21:GLN:NE2	1:I:39:ASP:HB2	2.31	0.45
1:J:21:GLN:NE2	1:J:39:ASP:HB2	2.31	0.45
1:L:694:LEU:O	1:L:697:SER:HB2	2.16	0.45
1:L:707:LEU:HD23	1:L:707:LEU:HA	1.74	0.45
1:L:813:ALA:HA	1:N:812:VAL:HA	1.97	0.45
1:M:65:VAL:HG12	1:M:83:LEU:HD23	1.98	0.45
1:M:587:THR:HG1	1:M:588:PHE:N	2.15	0.45
1:N:518:LEU:HA	1:N:547:PHE:HD2	1.80	0.45
1:N:703:ARG:HA	1:N:706:LEU:HB2	1.98	0.45
1:N:753:ILE:HG13	1:N:756:GLU:CB	2.43	0.45
1:S:91:ARG:NH1	1:S:94:GLN:OE1	2.38	0.45
1:V:703:ARG:HA	1:V:706:LEU:HB2	1.98	0.45
1:X:805:GLY:HA2	1:X:808:ARG:NE	2.32	0.45
1:Z:592:HIS:HA	1:Z:595:SER:OG	2.16	0.45
1:AA:805:GLY:HA2	1:AA:808:ARG:NE	2.32	0.45
1:BA:185:ARG:HG3	1:BA:204:TYR:HE1	1.81	0.45
1:CA:8:ILE:HG23	1:CA:37:ARG:HD3	1.98	0.45
1:CA:592:HIS:HA	1:CA:595:SER:OG	2.16	0.45
1:CA:703:ARG:HA	1:CA:706:LEU:HB2	1.98	0.45
1:DA:8:ILE:HG23	1:DA:37:ARG:HD3	1.98	0.45
1:FA:57:HIS:CD2	1:FA:111:PRO:HA	2.52	0.45
1:FA:204:TYR:OH	1:FA:210:GLU:OE2	2.30	0.45
1:FA:592:HIS:HA	1:FA:595:SER:OG	2.16	0.45
1:FA:694:LEU:O	1:FA:697:SER:HB2	2.16	0.45
1:GA:502:ALA:HB3	1:GA:510:ALA:HB3	1.98	0.45
1:HA:694:LEU:O	1:HA:697:SER:HB2	2.16	0.45
1:IA:15:TYR:CZ	1:IA:98:PRO:HA	2.51	0.45
1:IA:55:PRO:CB	1:KA:86:ALA:O	2.63	0.45
1:JA:8:ILE:HG23	1:JA:37:ARG:HD3	1.98	0.45
1:JA:286:ASP:OD1	1:JA:297:GLY:N	2.47	0.45
1:KA:502:ALA:HB3	1:KA:510:ALA:HB3	1.98	0.45
1:MA:505:PRO:HA	1:MA:526:VAL:HG12	1.97	0.45
1:MA:587:THR:HG1	1:MA:588:PHE:N	2.15	0.45
1:MA:591:PHE:CD1	1:MA:598:ILE:HD11	2.42	0.45
1:NA:28:VAL:HG21	1:NA:98:PRO:HB2	1.99	0.45
1:NA:592:HIS:HA	1:NA:595:SER:OG	2.16	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:NA:651:ARG:C	1:NA:653:ALA:H	2.17	0.45
1:NA:703:ARG:HA	1:NA:706:LEU:HB2	1.98	0.45
1:OA:15:TYR:CZ	1:OA:98:PRO:HA	2.51	0.45
1:OA:155:LYS:HG2	1:OA:156:GLU:OE1	2.15	0.45
1:PA:185:ARG:HG3	1:PA:204:TYR:HE1	1.81	0.45
1:PA:592:HIS:HA	1:PA:595:SER:OG	2.16	0.45
1:QA:65:VAL:HG12	1:QA:83:LEU:HD23	1.98	0.45
1:QA:592:HIS:HA	1:QA:595:SER:OG	2.16	0.45
1:QA:694:LEU:O	1:QA:697:SER:HB2	2.16	0.45
1:RA:502:ALA:HB3	1:RA:510:ALA:HB3	1.98	0.45
1:SA:694:LEU:O	1:SA:697:SER:HB2	2.17	0.45
1:TA:805:GLY:HA2	1:TA:808:ARG:NE	2.32	0.45
1:WA:65:VAL:HG12	1:WA:83:LEU:HD23	1.98	0.45
1:WA:229:LEU:HD13	1:WA:265:GLU:HB3	1.97	0.45
1:WA:502:ALA:HB3	1:WA:510:ALA:HB3	1.98	0.45
1:WA:694:LEU:O	1:WA:697:SER:HB2	2.16	0.45
1:XA:21:GLN:NE2	1:XA:39:ASP:HB2	2.31	0.45
1:YA:21:GLN:NE2	1:YA:39:ASP:HB2	2.31	0.45
1:ZA:502:ALA:HB3	1:ZA:510:ALA:HB3	1.98	0.45
1:AB:502:ALA:HB3	1:AB:510:ALA:HB3	1.98	0.45
1:AB:805:GLY:HA2	1:AB:808:ARG:NE	2.31	0.45
1:CB:505:PRO:HA	1:CB:526:VAL:HG12	1.97	0.45
1:DB:15:TYR:CZ	1:DB:98:PRO:HA	2.51	0.45
1:EB:65:VAL:HG12	1:EB:83:LEU:HD23	1.98	0.45
1:FB:805:GLY:HA2	1:FB:808:ARG:NE	2.31	0.45
1:GB:286:ASP:OD1	1:GB:297:GLY:N	2.47	0.45
1:HB:204:TYR:OH	1:HB:210:GLU:OE2	2.30	0.45
1:IB:505:PRO:HA	1:IB:526:VAL:HG12	1.97	0.45
1:JB:786:GLN:O	1:JB:790:VAL:HG23	2.15	0.45
1:MB:138:MET:N	1:MB:141:ASP:OD2	2.36	0.45
1:NB:786:GLN:O	1:NB:790:VAL:HG23	2.15	0.45
1:OB:65:VAL:HG12	1:OB:83:LEU:HD23	1.98	0.45
1:OB:680:LEU:HD13	1:PB:672:ALA:HB2	1.98	0.45
1:PB:57:HIS:CD2	1:PB:111:PRO:HA	2.52	0.45
1:PB:469:GLN:O	1:PB:496:THR:OG1	2.31	0.45
1:PB:505:PRO:HA	1:PB:526:VAL:HG12	1.97	0.45
1:RB:21:GLN:NE2	1:RB:39:ASP:HB2	2.31	0.45
1:RB:65:VAL:HG12	1:RB:83:LEU:HD23	1.98	0.45
1:RB:805:GLY:HA2	1:RB:808:ARG:NE	2.31	0.45
1:TB:505:PRO:HA	1:TB:526:VAL:HG12	1.97	0.45
1:VB:15:TYR:CZ	1:VB:98:PRO:HA	2.50	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:VB:204:TYR:OH	1:VB:210:GLU:OE2	2.30	0.45
1:VB:679:ARG:HH11	1:VB:679:ARG:HG2	1.80	0.45
1:XB:204:TYR:OH	1:XB:210:GLU:OE2	2.30	0.45
1:XB:805:GLY:HA2	1:XB:808:ARG:NE	2.31	0.45
1:YB:592:HIS:HA	1:YB:595:SER:OG	2.16	0.45
1:ZB:185:ARG:HG3	1:ZB:204:TYR:HE1	1.81	0.45
1:C:15:TYR:CZ	1:C:98:PRO:HA	2.51	0.45
1:D:699:ALA:HB2	1:F:690:ARG:HG2	1.98	0.45
1:F:387:GLY:HA3	1:F:402:ILE:HG22	1.99	0.45
1:G:505:PRO:HA	1:G:526:VAL:HG12	1.97	0.45
1:G:753:ILE:HG13	1:G:756:GLU:CB	2.43	0.45
1:I:502:ALA:HB3	1:I:510:ALA:HB3	1.98	0.45
1:I:694:LEU:O	1:I:697:SER:HB2	2.16	0.45
1:J:65:VAL:HG12	1:J:83:LEU:HD23	1.98	0.45
1:J:185:ARG:HG3	1:J:204:TYR:HE1	1.80	0.45
1:N:57:HIS:CD2	1:N:111:PRO:HA	2.52	0.45
1:N:96:PRO:HD3	1:P:85:HIS:CD2	2.50	0.45
1:O:8:ILE:HG23	1:O:37:ARG:HD3	1.98	0.45
1:O:229:LEU:HD13	1:O:265:GLU:HB3	1.97	0.45
1:O:502:ALA:HB3	1:O:510:ALA:HB3	1.98	0.45
1:P:505:PRO:HA	1:P:526:VAL:HG12	1.97	0.45
1:Q:805:GLY:HA2	1:Q:808:ARG:NE	2.31	0.45
1:R:594:ASN:HB3	1:R:597:ARG:HD3	1.99	0.45
1:R:753:ILE:HG13	1:R:756:GLU:CB	2.43	0.45
1:R:805:GLY:HA2	1:R:808:ARG:NE	2.32	0.45
1:S:652:ASP:OD1	1:S:652:ASP:N	2.48	0.45
1:T:185:ARG:HG3	1:T:204:TYR:HE1	1.81	0.45
1:V:138:MET:N	1:V:141:ASP:OD2	2.36	0.45
1:V:204:TYR:OH	1:V:210:GLU:OE2	2.30	0.45
1:Y:21:GLN:NE2	1:Y:39:ASP:HB2	2.31	0.45
1:Z:28:VAL:HG21	1:Z:98:PRO:HB2	1.99	0.45
1:AA:57:HIS:CD2	1:AA:111:PRO:HA	2.52	0.45
1:BA:707:LEU:HD23	1:BA:707:LEU:HA	1.74	0.45
1:CA:15:TYR:CZ	1:CA:98:PRO:HA	2.50	0.45
1:DA:15:TYR:CZ	1:DA:98:PRO:HA	2.51	0.45
1:DA:65:VAL:HG12	1:DA:83:LEU:HD23	1.98	0.45
1:DA:594:ASN:HB3	1:DA:597:ARG:HD3	1.99	0.45
1:KA:57:HIS:CD2	1:KA:111:PRO:HA	2.52	0.45
1:KA:505:PRO:HA	1:KA:526:VAL:HG12	1.97	0.45
1:KA:651:ARG:C	1:KA:653:ALA:H	2.17	0.45
1:LA:28:VAL:HG21	1:LA:98:PRO:HB2	1.99	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:MA:21:GLN:NE2	1:MA:39:ASP:HB2	2.31	0.45
1:NA:694:LEU:O	1:NA:697:SER:HB2	2.17	0.45
1:PA:28:VAL:HG21	1:PA:98:PRO:HB2	1.99	0.45
1:QA:28:VAL:HG21	1:QA:98:PRO:HB2	1.99	0.45
1:QA:185:ARG:HG3	1:QA:204:TYR:HE1	1.81	0.45
1:QA:229:LEU:HD13	1:QA:265:GLU:HB3	1.97	0.45
1:QA:286:ASP:OD1	1:QA:297:GLY:N	2.47	0.45
1:RA:229:LEU:HD13	1:RA:265:GLU:HB3	1.97	0.45
1:SA:57:HIS:CD2	1:SA:111:PRO:HA	2.52	0.45
1:TA:8:ILE:HG23	1:TA:37:ARG:HD3	1.98	0.45
1:UA:805:GLY:HA2	1:UA:808:ARG:NE	2.32	0.45
1:VA:204:TYR:OH	1:VA:210:GLU:OE2	2.30	0.45
1:VA:502:ALA:HB3	1:VA:510:ALA:HB3	1.98	0.45
1:YA:65:VAL:HG12	1:YA:83:LEU:HD23	1.98	0.45
1:YA:694:LEU:O	1:YA:697:SER:HB2	2.17	0.45
1:BB:406:TYR:HH	1:BB:412:GLU:CD	2.19	0.45
1:CB:533:ASP:CG	1:CB:587:THR:HG1	2.15	0.45
1:DB:8:ILE:HG23	1:DB:37:ARG:HD3	1.98	0.45
1:DB:57:HIS:CD2	1:DB:111:PRO:HA	2.52	0.45
1:DB:229:LEU:HD13	1:DB:265:GLU:HB3	1.97	0.45
1:FB:21:GLN:NE2	1:FB:39:ASP:HB2	2.31	0.45
1:GB:65:VAL:HG12	1:GB:83:LEU:HD23	1.98	0.45
1:GB:592:HIS:HA	1:GB:595:SER:OG	2.16	0.45
1:HB:286:ASP:OD1	1:HB:297:GLY:N	2.47	0.45
1:HB:505:PRO:HA	1:HB:526:VAL:HG12	1.97	0.45
1:KB:508:PRO:O	1:KB:509:HIS:ND1	2.48	0.45
1:LB:8:ILE:HG23	1:LB:37:ARG:HD3	1.98	0.45
1:LB:694:LEU:O	1:LB:697:SER:HB2	2.16	0.45
1:MB:655:GLN:HA	1:MB:658:VAL:HG23	1.96	0.45
1:MB:694:LEU:O	1:MB:697:SER:HB2	2.17	0.45
1:NB:28:VAL:HG21	1:NB:98:PRO:HB2	1.99	0.45
1:NB:185:ARG:HG3	1:NB:204:TYR:HE1	1.81	0.45
1:OB:768:MET:CE	1:PB:763:LYS:CA	2.83	0.45
1:QB:229:LEU:HD13	1:QB:265:GLU:HB3	1.97	0.45
1:RB:57:HIS:CD2	1:RB:111:PRO:HA	2.52	0.45
1:RB:177:ARG:HH11	1:RB:193:GLY:HA2	1.80	0.45
1:RB:229:LEU:HD13	1:RB:265:GLU:HB3	1.97	0.45
1:RB:502:ALA:HB3	1:RB:510:ALA:HB3	1.98	0.45
1:SB:8:ILE:HG23	1:SB:37:ARG:HD3	1.98	0.45
1:SB:21:GLN:NE2	1:SB:39:ASP:HB2	2.31	0.45
1:SB:65:VAL:HG12	1:SB:83:LEU:HD23	1.98	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:SB:703:ARG:HA	1:SB:706:LEU:HB2	1.98	0.45
1:TB:28:VAL:HG21	1:TB:98:PRO:HB2	1.99	0.45
1:TB:805:GLY:HA2	1:TB:808:ARG:NE	2.31	0.45
1:VB:21:GLN:NE2	1:VB:39:ASP:HB2	2.31	0.45
1:XB:236:LYS:HE3	1:XB:236:LYS:HB2	1.77	0.45
1:YB:502:ALA:HB3	1:YB:510:ALA:HB3	1.98	0.45
1:YB:655:GLN:HA	1:YB:658:VAL:HG23	1.96	0.45
1:ZB:65:VAL:HG12	1:ZB:83:LEU:HD23	1.98	0.45
1:A:65:VAL:HG12	1:A:83:LEU:HD23	1.98	0.45
1:A:594:ASN:HB3	1:A:597:ARG:HD3	1.99	0.45
1:A:684:ALA:HB1	1:C:675:HIS:HB3	1.99	0.45
1:B:57:HIS:CD2	1:B:111:PRO:HA	2.52	0.45
1:B:223:GLU:OE1	1:D:293:LYS:HD3	2.17	0.45
1:B:592:HIS:HA	1:B:595:SER:OG	2.16	0.45
1:B:703:ARG:HA	1:B:706:LEU:HB2	1.98	0.45
1:C:728:SER:CB	1:E:718:SER:C	2.85	0.45
1:C:761:ARG:HG3	1:E:752:ALA:HA	1.98	0.45
1:D:662:ILE:HD13	1:F:654:LEU:HD11	1.98	0.45
1:D:703:ARG:HA	1:D:706:LEU:HB2	1.98	0.45
1:D:805:GLY:HA2	1:D:808:ARG:NE	2.32	0.45
1:E:229:LEU:HD13	1:E:265:GLU:HB3	1.98	0.45
1:E:502:ALA:HB3	1:E:510:ALA:HB3	1.98	0.45
1:G:57:HIS:CD2	1:G:111:PRO:HA	2.52	0.45
1:G:775:ALA:CB	1:I:770:LEU:HD12	2.46	0.45
1:H:594:ASN:HB3	1:H:597:ARG:HD3	1.99	0.45
1:I:28:VAL:HG21	1:I:98:PRO:HB2	1.99	0.45
1:J:533:ASP:OD2	1:J:587:THR:OG1	2.17	0.45
1:J:694:LEU:O	1:J:697:SER:HB2	2.17	0.45
1:K:57:HIS:CD2	1:K:111:PRO:HA	2.52	0.45
1:L:65:VAL:HG12	1:L:83:LEU:HD23	1.98	0.45
1:M:91:ARG:NH1	1:M:94:GLN:OE1	2.39	0.45
1:M:594:ASN:HB3	1:M:597:ARG:HD3	1.99	0.45
1:M:651:ARG:C	1:M:653:ALA:H	2.17	0.45
1:N:694:LEU:O	1:N:697:SER:HB2	2.16	0.45
1:P:65:VAL:HG12	1:P:83:LEU:HD23	1.98	0.45
1:P:502:ALA:HB3	1:P:510:ALA:HB3	1.98	0.45
1:Q:28:VAL:HG21	1:Q:98:PRO:HB2	1.99	0.45
1:Q:57:HIS:CD2	1:Q:111:PRO:HA	2.52	0.45
1:S:502:ALA:HB3	1:S:510:ALA:HB3	1.98	0.45
1:T:28:VAL:HG21	1:T:98:PRO:HB2	1.99	0.45
1:V:34:THR:HG21	1:X:22:ASN:O	2.16	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:V:57:HIS:CD2	1:V:111:PRO:HA	2.52	0.45
1:W:15:TYR:CZ	1:W:98:PRO:HA	2.51	0.45
1:Z:57:HIS:CD2	1:Z:111:PRO:HA	2.52	0.45
1:Z:236:LYS:HB2	1:Z:236:LYS:HE3	1.77	0.45
1:BA:285:LEU:N	1:BA:315:ARG:O	2.41	0.45
1:BA:299:LYS:NZ	1:BA:317:GLU:OE2	2.32	0.45
1:BA:703:ARG:HA	1:BA:706:LEU:HB2	1.98	0.45
1:EA:594:ASN:HB3	1:EA:597:ARG:HD3	1.99	0.45
1:FA:587:THR:HG1	1:FA:588:PHE:N	2.14	0.45
1:GA:28:VAL:HG21	1:GA:98:PRO:HB2	1.99	0.45
1:HA:594:ASN:HB3	1:HA:597:ARG:HD3	1.99	0.45
1:HA:805:GLY:HA2	1:HA:808:ARG:NE	2.31	0.45
1:IA:54:PRO:CA	1:KA:86:ALA:HB1	2.44	0.45
1:IA:387:GLY:HA3	1:IA:402:ILE:HG22	1.99	0.45
1:IA:651:ARG:C	1:IA:653:ALA:H	2.17	0.45
1:KA:21:GLN:NE2	1:KA:39:ASP:HB2	2.31	0.45
1:KA:594:ASN:HB3	1:KA:597:ARG:HD3	1.99	0.45
1:LA:8:ILE:HG23	1:LA:37:ARG:HD3	1.98	0.45
1:LA:387:GLY:HA3	1:LA:402:ILE:HG22	1.99	0.45
1:LA:502:ALA:HB3	1:LA:510:ALA:HB3	1.98	0.45
1:MA:703:ARG:HA	1:MA:706:LEU:HB2	1.98	0.45
1:NA:21:GLN:NE2	1:NA:39:ASP:HB2	2.31	0.45
1:OA:502:ALA:HB3	1:OA:510:ALA:HB3	1.98	0.45
1:OA:694:LEU:O	1:OA:697:SER:HB2	2.17	0.45
1:PA:502:ALA:HB3	1:PA:510:ALA:HB3	1.98	0.45
1:PA:703:ARG:HA	1:PA:706:LEU:HB2	1.98	0.45
1:TA:21:GLN:NE2	1:TA:39:ASP:HB2	2.31	0.45
1:TA:594:ASN:HB3	1:TA:597:ARG:HD3	1.99	0.45
1:VA:21:GLN:NE2	1:VA:39:ASP:HB2	2.31	0.45
1:VA:236:LYS:HB2	1:VA:236:LYS:HE3	1.77	0.45
1:VA:506:LYS:HD3	1:VA:506:LYS:HA	1.81	0.45
1:VA:594:ASN:HB3	1:VA:597:ARG:HD3	1.99	0.45
1:YA:57:HIS:CD2	1:YA:111:PRO:HA	2.52	0.45
1:AB:592:HIS:HA	1:AB:595:SER:OG	2.16	0.45
1:DB:692:LYS:HG3	1:EB:682:GLN:HG2	1.97	0.45
1:EB:592:HIS:HA	1:EB:595:SER:OG	2.16	0.45
1:GB:28:VAL:HG21	1:GB:98:PRO:HB2	1.99	0.45
1:HB:592:HIS:HA	1:HB:595:SER:OG	2.16	0.45
1:HB:594:ASN:HB3	1:HB:597:ARG:HD3	1.99	0.45
1:IB:28:VAL:HG21	1:IB:98:PRO:HB2	1.99	0.45
1:IB:57:HIS:CD2	1:IB:111:PRO:HA	2.52	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:IB:502:ALA:HB3	1:IB:510:ALA:HB3	1.98	0.45
1:IB:703:ARG:HA	1:IB:706:LEU:HB2	1.98	0.45
1:JB:91:ARG:NH1	1:JB:94:GLN:OE1	2.39	0.45
1:JB:753:ILE:HG13	1:JB:756:GLU:CB	2.43	0.45
1:LB:593:LYS:HE3	1:MB:532:ALA:HB1	1.97	0.45
1:LB:707:LEU:HD23	1:LB:707:LEU:HA	1.74	0.45
1:MB:805:GLY:HA2	1:MB:808:ARG:NE	2.31	0.45
1:NB:587:THR:HG1	1:NB:588:PHE:H	1.64	0.45
1:NB:694:LEU:O	1:NB:697:SER:HB2	2.17	0.45
1:NB:805:GLY:HA2	1:NB:808:ARG:NE	2.32	0.45
1:OB:185:ARG:HG3	1:OB:204:TYR:HE1	1.81	0.45
1:OB:592:HIS:CD2	1:PB:531:THR:O	2.69	0.45
1:OB:592:HIS:HA	1:OB:595:SER:OG	2.16	0.45
1:OB:594:ASN:HB3	1:OB:597:ARG:HD3	1.99	0.45
1:OB:768:MET:HB3	1:OB:768:MET:HE2	1.67	0.45
1:PB:185:ARG:HG3	1:PB:204:TYR:HE1	1.81	0.45
1:PB:694:LEU:O	1:PB:697:SER:HB2	2.16	0.45
1:QB:28:VAL:HG21	1:QB:98:PRO:HB2	1.99	0.45
1:RB:387:GLY:HA3	1:RB:402:ILE:HG22	1.99	0.45
1:TB:15:TYR:CZ	1:TB:98:PRO:HA	2.51	0.45
1:UB:57:HIS:CD2	1:UB:111:PRO:HA	2.52	0.45
1:UB:587:THR:HG1	1:UB:588:PHE:N	2.15	0.45
1:VB:594:ASN:HB3	1:VB:597:ARG:HD3	1.99	0.45
1:XB:651:ARG:C	1:XB:653:ALA:H	2.17	0.45
1:XB:703:ARG:HA	1:XB:706:LEU:HB2	1.98	0.45
1:ZB:57:HIS:CD2	1:ZB:111:PRO:HA	2.52	0.45
1:ZB:286:ASP:OD1	1:ZB:297:GLY:N	2.47	0.45
1:ZB:731:GLU:HB3	1:AC:722:ALA:HB1	1.87	0.45
1:ZB:805:GLY:HA2	1:ZB:808:ARG:NE	2.32	0.45
1:AC:28:VAL:HG21	1:AC:98:PRO:HB2	1.98	0.45
1:AC:592:HIS:HA	1:AC:595:SER:OG	2.16	0.45
1:A:15:TYR:CZ	1:A:98:PRO:HA	2.51	0.45
1:A:703:ARG:HA	1:A:706:LEU:HB2	1.98	0.45
1:C:229:LEU:HD13	1:C:265:GLU:HB3	1.97	0.45
1:C:694:LEU:O	1:C:697:SER:HB2	2.17	0.45
1:D:167:VAL:CG1	1:F:191:VAL:HG21	2.24	0.45
1:D:592:HIS:HA	1:D:595:SER:OG	2.16	0.45
1:E:786:GLN:O	1:E:790:VAL:HG23	2.15	0.45
1:F:185:ARG:HG3	1:F:204:TYR:HE1	1.81	0.45
1:G:506:LYS:HD3	1:G:506:LYS:HA	1.81	0.45
1:G:592:HIS:HA	1:G:595:SER:OG	2.16	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:652:ASP:OD1	1:G:652:ASP:N	2.48	0.45
1:H:185:ARG:HG3	1:H:204:TYR:HE1	1.81	0.45
1:K:185:ARG:HG3	1:K:204:TYR:HE1	1.81	0.45
1:K:236:LYS:HE3	1:K:236:LYS:HB2	1.77	0.45
1:K:285:LEU:N	1:K:315:ARG:O	2.41	0.45
1:L:28:VAL:HG21	1:L:98:PRO:HB2	1.99	0.45
1:L:587:THR:HG1	1:L:588:PHE:N	2.14	0.45
1:P:703:ARG:HA	1:P:706:LEU:HB2	1.98	0.45
1:Q:65:VAL:HG12	1:Q:83:LEU:HD23	1.98	0.45
1:R:204:TYR:OH	1:R:210:GLU:OE2	2.30	0.45
1:S:204:TYR:OH	1:S:210:GLU:OE2	2.30	0.45
1:S:594:ASN:HB3	1:S:597:ARG:HD3	1.99	0.45
1:S:703:ARG:HA	1:S:706:LEU:HB2	1.98	0.45
1:T:805:GLY:HA2	1:T:808:ARG:NE	2.32	0.45
1:V:8:ILE:HG23	1:V:37:ARG:HD3	1.98	0.45
1:Y:8:ILE:HG23	1:Y:37:ARG:HD3	1.98	0.45
1:Y:15:TYR:CZ	1:Y:98:PRO:HA	2.51	0.45
1:Y:592:HIS:HA	1:Y:595:SER:OG	2.16	0.45
1:Z:8:ILE:HG23	1:Z:37:ARG:HD3	1.98	0.45
1:Z:753:ILE:HG13	1:Z:756:GLU:CB	2.43	0.45
1:BA:28:VAL:HG21	1:BA:98:PRO:HB2	1.99	0.45
1:FA:8:ILE:HG23	1:FA:37:ARG:HD3	1.98	0.45
1:FA:502:ALA:HB3	1:FA:510:ALA:HB3	1.98	0.45
1:GA:65:VAL:HG12	1:GA:83:LEU:HD23	1.98	0.45
1:GA:387:GLY:HA3	1:GA:402:ILE:HG22	1.99	0.45
1:HA:185:ARG:HG3	1:HA:204:TYR:HE1	1.81	0.45
1:LA:57:HIS:CD2	1:LA:111:PRO:HA	2.52	0.45
1:MA:28:VAL:HG21	1:MA:98:PRO:HB2	1.98	0.45
1:OA:285:LEU:N	1:OA:315:ARG:O	2.41	0.45
1:PA:768:MET:HE1	1:RA:763:LYS:HG3	1.98	0.45
1:QA:654:LEU:HD13	1:SA:534:HIS:NE2	2.30	0.45
1:RA:57:HIS:CD2	1:RA:111:PRO:HA	2.52	0.45
1:SA:65:VAL:HG12	1:SA:83:LEU:HD23	1.98	0.45
1:SA:508:PRO:O	1:SA:509:HIS:ND1	2.48	0.45
1:UA:286:ASP:OD1	1:UA:297:GLY:N	2.47	0.45
1:VA:28:VAL:HG21	1:VA:98:PRO:HB2	1.99	0.45
1:WA:8:ILE:HG23	1:WA:37:ARG:HD3	1.98	0.45
1:WA:57:HIS:CD2	1:WA:111:PRO:HA	2.52	0.45
1:WA:587:THR:HG1	1:WA:588:PHE:H	1.65	0.45
1:XA:8:ILE:HG23	1:XA:37:ARG:HD3	1.98	0.45
1:XA:28:VAL:HG21	1:XA:98:PRO:HB2	1.99	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:XA:698:GLU:OE2	1:XA:701:LYS:NZ	2.42	0.45
1:YA:185:ARG:HG3	1:YA:204:TYR:HE1	1.81	0.45
1:ZA:592:HIS:HA	1:ZA:595:SER:OG	2.16	0.45
1:ZA:703:ARG:HA	1:ZA:706:LEU:HB2	1.98	0.45
1:AB:28:VAL:HG21	1:AB:98:PRO:HB2	1.99	0.45
1:AB:694:LEU:O	1:AB:697:SER:HB2	2.17	0.45
1:BB:57:HIS:CD2	1:BB:111:PRO:HA	2.52	0.45
1:BB:502:ALA:HB3	1:BB:510:ALA:HB3	1.98	0.45
1:DB:28:VAL:HG21	1:DB:98:PRO:HB2	1.99	0.45
1:EB:185:ARG:HG3	1:EB:204:TYR:HE1	1.81	0.45
1:FB:28:VAL:HG21	1:FB:98:PRO:HB2	1.99	0.45
1:GB:57:HIS:CD2	1:GB:111:PRO:HA	2.52	0.45
1:GB:703:ARG:HA	1:GB:706:LEU:HB2	1.98	0.45
1:JB:694:LEU:O	1:JB:697:SER:HB2	2.16	0.45
1:KB:694:LEU:O	1:KB:697:SER:HB2	2.16	0.45
1:LB:185:ARG:HG3	1:LB:204:TYR:HE1	1.81	0.45
1:MB:28:VAL:HG21	1:MB:98:PRO:HB2	1.99	0.45
1:MB:65:VAL:HG12	1:MB:83:LEU:HD23	1.98	0.45
1:MB:592:HIS:HA	1:MB:595:SER:OG	2.16	0.45
1:NB:15:TYR:CZ	1:NB:98:PRO:HA	2.51	0.45
1:NB:229:LEU:HD13	1:NB:265:GLU:HB3	1.97	0.45
1:NB:703:ARG:HA	1:NB:706:LEU:HB2	1.98	0.45
1:OB:520:PRO:O	1:PB:565:PRO:HD2	2.15	0.45
1:OB:764:LYS:HE3	1:PB:759:LEU:HD13	1.98	0.45
1:PB:65:VAL:HG12	1:PB:83:LEU:HD23	1.98	0.45
1:PB:502:ALA:HB3	1:PB:510:ALA:HB3	1.98	0.45
1:QB:703:ARG:HA	1:QB:706:LEU:HB2	1.98	0.45
1:SB:185:ARG:HG3	1:SB:204:TYR:HE1	1.81	0.45
1:UB:8:ILE:HG23	1:UB:37:ARG:HD3	1.98	0.45
1:UB:594:ASN:HB3	1:UB:597:ARG:HD3	1.99	0.45
1:VB:687:ARG:CZ	1:WB:679:ARG:HD2	2.46	0.45
1:VB:750:ALA:CA	1:WB:744:ALA:HB2	2.44	0.45
1:WB:57:HIS:CD2	1:WB:111:PRO:HA	2.52	0.45
1:WB:185:ARG:HG3	1:WB:204:TYR:HE1	1.81	0.45
1:XB:16:ILE:HD12	1:XB:43:VAL:HG23	1.96	0.45
1:YB:57:HIS:HB3	1:YB:109:ILE:HD11	1.99	0.45
1:ZB:703:ARG:HA	1:ZB:706:LEU:HB2	1.98	0.45
1:A:229:LEU:HD13	1:A:265:GLU:HB3	1.97	0.45
1:A:587:THR:HG1	1:A:588:PHE:H	1.65	0.45
1:B:753:ILE:HG13	1:B:756:GLU:CB	2.43	0.45
1:B:757:ALA:HB2	1:D:748:ALA:CB	2.46	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:502:ALA:HB3	1:C:510:ALA:HB3	1.98	0.45
1:C:533:ASP:CG	1:C:587:THR:HG1	2.14	0.45
1:C:594:ASN:HB3	1:C:597:ARG:HD3	1.99	0.45
1:C:703:ARG:HA	1:C:706:LEU:HB2	1.98	0.45
1:D:666:THR:HG22	1:F:657:SER:OG	2.11	0.45
1:E:21:GLN:NE2	1:E:39:ASP:HB2	2.31	0.45
1:F:285:LEU:N	1:F:315:ARG:O	2.41	0.45
1:F:505:PRO:HA	1:F:526:VAL:HG12	1.97	0.45
1:G:594:ASN:HB3	1:G:597:ARG:HD3	1.99	0.45
1:H:57:HIS:HB3	1:H:109:ILE:HD11	1.99	0.45
1:H:694:LEU:O	1:H:697:SER:HB2	2.17	0.45
1:H:703:ARG:HA	1:H:706:LEU:HB2	1.98	0.45
1:H:813:ALA:HB1	1:J:811:ALA:O	2.16	0.45
1:I:703:ARG:HA	1:I:706:LEU:HB2	1.98	0.45
1:J:28:VAL:HG21	1:J:98:PRO:HB2	1.99	0.45
1:J:57:HIS:HB3	1:J:109:ILE:HD11	1.99	0.45
1:J:169:LYS:HE3	1:L:233:GLN:OE1	2.16	0.45
1:K:387:GLY:HA3	1:K:402:ILE:HG22	1.99	0.45
1:L:286:ASP:OD1	1:L:297:GLY:N	2.47	0.45
1:L:682:GLN:O	1:L:682:GLN:NE2	2.50	0.45
1:M:387:GLY:HA3	1:M:402:ILE:HG22	1.99	0.45
1:N:28:VAL:HG21	1:N:98:PRO:HB2	1.98	0.45
1:O:28:VAL:HG21	1:O:98:PRO:HB2	1.99	0.45
1:P:587:THR:HG1	1:P:588:PHE:N	2.14	0.45
1:Q:8:ILE:HG23	1:Q:37:ARG:HD3	1.98	0.45
1:R:57:HIS:CD2	1:R:111:PRO:HA	2.52	0.45
1:R:655:GLN:HE21	1:T:649:ARG:CB	2.30	0.45
1:S:587:THR:HG1	1:S:588:PHE:N	2.15	0.45
1:S:682:GLN:O	1:S:682:GLN:NE2	2.50	0.45
1:V:185:ARG:HG3	1:V:204:TYR:HE1	1.81	0.45
1:W:57:HIS:CD2	1:W:111:PRO:HA	2.52	0.45
1:W:799:THR:HA	1:W:802:LEU:HD12	1.99	0.45
1:X:502:ALA:HB3	1:X:510:ALA:HB3	1.98	0.45
1:X:703:ARG:HA	1:X:706:LEU:HB2	1.98	0.45
1:AA:28:VAL:HG21	1:AA:98:PRO:HB2	1.99	0.45
1:CA:28:VAL:HG21	1:CA:98:PRO:HB2	1.99	0.45
1:DA:682:GLN:NE2	1:DA:682:GLN:O	2.50	0.45
1:DA:805:GLY:HA2	1:DA:808:ARG:NE	2.31	0.45
1:EA:57:HIS:CD2	1:EA:111:PRO:HA	2.52	0.45
1:EA:185:ARG:HG3	1:EA:204:TYR:HE1	1.81	0.45
1:FA:236:LYS:HB2	1:FA:236:LYS:HE3	1.77	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:HA:65:VAL:HG12	1:HA:83:LEU:HD23	1.98	0.45
1:HA:746:LEU:HD22	1:JA:741:VAL:HG21	1.98	0.45
1:IA:229:LEU:HD13	1:IA:265:GLU:HB3	1.98	0.45
1:IA:278:PRO:HD2	1:KA:297:GLY:O	2.17	0.45
1:IA:592:HIS:HA	1:IA:595:SER:OG	2.16	0.45
1:IA:652:ASP:N	1:IA:652:ASP:OD1	2.48	0.45
1:JA:28:VAL:HG21	1:JA:98:PRO:HB2	1.99	0.45
1:JA:505:PRO:HA	1:JA:526:VAL:HG12	1.97	0.45
1:KA:65:VAL:HG12	1:KA:83:LEU:HD23	1.98	0.45
1:LA:587:THR:HG1	1:LA:588:PHE:H	1.65	0.45
1:LA:594:ASN:HB3	1:LA:597:ARG:HD3	1.99	0.45
1:MA:682:GLN:NE2	1:MA:682:GLN:O	2.50	0.45
1:MA:694:LEU:O	1:MA:697:SER:HB2	2.16	0.45
1:PA:8:ILE:HG23	1:PA:37:ARG:HD3	1.98	0.45
1:RA:592:HIS:HA	1:RA:595:SER:OG	2.16	0.45
1:RA:805:GLY:HA2	1:RA:808:ARG:NE	2.32	0.45
1:TA:505:PRO:HA	1:TA:526:VAL:HG12	1.97	0.45
1:WA:805:GLY:HA2	1:WA:808:ARG:NE	2.32	0.45
1:XA:236:LYS:HB2	1:XA:236:LYS:HE3	1.77	0.45
1:AB:8:ILE:HG23	1:AB:37:ARG:HD3	1.98	0.45
1:AB:652:ASP:N	1:AB:652:ASP:OD1	2.48	0.45
1:AB:786:GLN:O	1:AB:790:VAL:HG23	2.15	0.45
1:BB:8:ILE:HG23	1:BB:37:ARG:HD3	1.98	0.45
1:BB:594:ASN:HB3	1:BB:597:ARG:HD3	1.99	0.45
1:CB:8:ILE:HG23	1:CB:37:ARG:HD3	1.98	0.45
1:CB:28:VAL:HG21	1:CB:98:PRO:HB2	1.99	0.45
1:CB:707:LEU:HD23	1:CB:707:LEU:HA	1.74	0.45
1:EB:57:HIS:CD2	1:EB:111:PRO:HA	2.52	0.45
1:EB:652:ASP:N	1:EB:652:ASP:OD1	2.48	0.45
1:GB:387:GLY:HA3	1:GB:402:ILE:HG22	1.99	0.45
1:IB:694:LEU:O	1:IB:697:SER:HB2	2.16	0.45
1:JB:57:HIS:CD2	1:JB:111:PRO:HA	2.52	0.45
1:LB:518:LEU:HA	1:LB:547:PHE:HD2	1.79	0.45
1:NB:8:ILE:HG23	1:NB:37:ARG:HD3	1.98	0.45
1:OB:257:GLU:CD	1:PB:244:ARG:CB	2.69	0.45
1:RB:37:ARG:HE	1:RB:42:ARG:HA	1.82	0.45
1:SB:594:ASN:HB3	1:SB:597:ARG:HD3	1.99	0.45
1:TB:21:GLN:NE2	1:TB:39:ASP:HB2	2.31	0.45
1:TB:65:VAL:HG12	1:TB:83:LEU:HD23	1.98	0.45
1:TB:783:LYS:CD	1:UB:777:LEU:HD12	2.34	0.45
1:VB:592:HIS:HA	1:VB:595:SER:OG	2.16	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:WB:57:HIS:HB3	1:WB:109:ILE:HD11	1.99	0.45
1:XB:461:ARG:NH1	1:YB:473:TYR:HE2	2.11	0.45
1:AC:502:ALA:HB3	1:AC:510:ALA:HB3	1.98	0.45
1:A:57:HIS:HB3	1:A:109:ILE:HD11	1.99	0.45
1:C:21:GLN:NE2	1:C:39:ASP:HB2	2.31	0.45
1:C:57:HIS:CD2	1:C:111:PRO:HA	2.52	0.45
1:C:746:LEU:O	1:E:741:VAL:HG22	2.17	0.45
1:C:761:ARG:NE	1:E:755:THR:OG1	2.50	0.45
1:D:57:HIS:HB3	1:D:109:ILE:HD11	1.99	0.45
1:D:595:SER:HB3	1:F:580:ARG:HH22	1.81	0.45
1:E:754:GLU:CG	1:G:744:ALA:CB	2.94	0.45
1:E:805:GLY:HA2	1:E:808:ARG:NE	2.31	0.45
1:F:28:VAL:HG21	1:F:98:PRO:HB2	1.99	0.45
1:F:57:HIS:CD2	1:F:111:PRO:HA	2.52	0.45
1:G:37:ARG:HE	1:G:42:ARG:HA	1.82	0.45
1:I:594:ASN:HB3	1:I:597:ARG:HD3	1.99	0.45
1:K:28:VAL:HG21	1:K:98:PRO:HB2	1.98	0.45
1:K:592:HIS:HA	1:K:595:SER:OG	2.16	0.45
1:K:694:LEU:O	1:K:697:SER:HB2	2.16	0.45
1:O:703:ARG:HA	1:O:706:LEU:HB2	1.98	0.45
1:P:694:LEU:O	1:P:697:SER:HB2	2.16	0.45
1:P:790:VAL:HG13	1:R:788:ALA:HB3	1.93	0.45
1:R:652:ASP:HB3	1:T:649:ARG:NH1	2.32	0.45
1:S:57:HIS:HB3	1:S:109:ILE:HD11	1.99	0.45
1:V:28:VAL:HG21	1:V:98:PRO:HB2	1.98	0.45
1:V:707:LEU:HD23	1:V:707:LEU:HA	1.74	0.45
1:W:8:ILE:HG23	1:W:37:ARG:HD3	1.98	0.45
1:W:502:ALA:HB3	1:W:510:ALA:HB3	1.98	0.45
1:X:521:ASP:OD1	1:X:522:PHE:N	2.44	0.45
1:X:549:LEU:HD21	1:X:561:LEU:HD21	1.99	0.45
1:Y:37:ARG:HE	1:Y:42:ARG:HA	1.82	0.45
1:Y:594:ASN:HB3	1:Y:597:ARG:HD3	1.99	0.45
1:Z:387:GLY:HA3	1:Z:402:ILE:HG22	1.99	0.45
1:Z:521:ASP:OD1	1:Z:522:PHE:N	2.44	0.45
1:BA:502:ALA:HB3	1:BA:510:ALA:HB3	1.98	0.45
1:CA:682:GLN:OE1	1:CA:685:ARG:NH2	2.41	0.45
1:DA:694:LEU:O	1:DA:697:SER:HB2	2.17	0.45
1:EA:229:LEU:HD13	1:EA:265:GLU:HB3	1.97	0.45
1:GA:57:HIS:CD2	1:GA:111:PRO:HA	2.52	0.45
1:HA:387:GLY:HA3	1:HA:402:ILE:HG22	1.99	0.45
1:IA:382:LEU:C	1:KA:396:GLY:HA3	2.37	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:JA:21:GLN:NE2	1:JA:39:ASP:HB2	2.31	0.45
1:JA:682:GLN:O	1:JA:682:GLN:NE2	2.50	0.45
1:KA:694:LEU:O	1:KA:697:SER:HB2	2.16	0.45
1:LA:37:ARG:HE	1:LA:42:ARG:HA	1.82	0.45
1:LA:57:HIS:HB3	1:LA:109:ILE:HD11	1.99	0.45
1:LA:682:GLN:NE2	1:LA:682:GLN:O	2.50	0.45
1:MA:57:HIS:HB3	1:MA:109:ILE:HD11	1.99	0.45
1:MA:592:HIS:HA	1:MA:595:SER:OG	2.16	0.45
1:NA:387:GLY:HA3	1:NA:402:ILE:HG22	1.99	0.45
1:NA:652:ASP:OD1	1:NA:652:ASP:N	2.48	0.45
1:PA:694:LEU:O	1:PA:697:SER:HB2	2.16	0.45
1:QA:591:PHE:CD1	1:QA:598:ILE:HD11	2.42	0.45
1:RA:236:LYS:HE3	1:RA:236:LYS:HB2	1.77	0.45
1:RA:286:ASP:OD1	1:RA:297:GLY:N	2.47	0.45
1:SA:703:ARG:HA	1:SA:706:LEU:HB2	1.98	0.45
1:TA:57:HIS:CD2	1:TA:111:PRO:HA	2.52	0.45
1:TA:185:ARG:HG3	1:TA:204:TYR:HE1	1.81	0.45
1:UA:28:VAL:HG21	1:UA:98:PRO:HB2	1.99	0.45
1:UA:57:HIS:CD2	1:UA:111:PRO:HA	2.52	0.45
1:UA:594:ASN:HB3	1:UA:597:ARG:HD3	1.99	0.45
1:UA:682:GLN:O	1:UA:682:GLN:NE2	2.50	0.45
1:VA:592:HIS:HA	1:VA:595:SER:OG	2.16	0.45
1:VA:682:GLN:O	1:VA:682:GLN:NE2	2.50	0.45
1:XA:65:VAL:HG12	1:XA:83:LEU:HD23	1.98	0.45
1:ZA:21:GLN:NE2	1:ZA:39:ASP:HB2	2.31	0.45
1:ZA:805:GLY:HA2	1:ZA:808:ARG:NE	2.32	0.45
1:AB:505:PRO:HA	1:AB:526:VAL:HG12	1.97	0.45
1:BB:592:HIS:HA	1:BB:595:SER:OG	2.16	0.45
1:CB:709:LEU:HD13	1:DB:701:LYS:HG2	1.98	0.45
1:FB:8:ILE:HG23	1:FB:37:ARG:HD3	1.98	0.45
1:FB:502:ALA:HB3	1:FB:510:ALA:HB3	1.98	0.45
1:FB:587:THR:HG1	1:FB:588:PHE:H	1.64	0.45
1:FB:594:ASN:HB3	1:FB:597:ARG:HD3	1.99	0.45
1:HB:8:ILE:HG23	1:HB:37:ARG:HD3	1.98	0.45
1:HB:229:LEU:HD13	1:HB:265:GLU:HB3	1.97	0.45
1:HB:387:GLY:HA3	1:HB:402:ILE:HG22	1.99	0.45
1:IB:229:LEU:HD13	1:IB:265:GLU:HB3	1.98	0.45
1:IB:805:GLY:HA2	1:IB:808:ARG:NE	2.31	0.45
1:JB:28:VAL:HG21	1:JB:98:PRO:HB2	1.99	0.45
1:JB:229:LEU:HD13	1:JB:265:GLU:HB3	1.97	0.45
1:KB:229:LEU:HD13	1:KB:265:GLU:HB3	1.98	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:MB:229:LEU:HD13	1:MB:265:GLU:HB3	1.97	0.45
1:NB:37:ARG:HE	1:NB:42:ARG:HA	1.82	0.45
1:NB:57:HIS:CD2	1:NB:111:PRO:HA	2.52	0.45
1:NB:682:GLN:O	1:NB:682:GLN:NE2	2.50	0.45
1:OB:57:HIS:CD2	1:OB:111:PRO:HA	2.52	0.45
1:OB:258:ALA:HB3	1:PB:245:THR:HB	1.97	0.45
1:OB:461:ARG:HD2	1:PB:420:PRO:CB	2.45	0.45
1:OB:587:THR:HG1	1:OB:588:PHE:H	1.64	0.45
1:OB:694:LEU:O	1:OB:697:SER:HB2	2.17	0.45
1:PB:286:ASP:OD1	1:PB:297:GLY:N	2.47	0.45
1:QB:21:GLN:NE2	1:QB:39:ASP:HB2	2.31	0.45
1:QB:682:GLN:O	1:QB:682:GLN:NE2	2.50	0.45
1:QB:694:LEU:O	1:QB:697:SER:HB2	2.17	0.45
1:RB:750:ALA:HA	1:SB:744:ALA:CB	2.46	0.45
1:SB:387:GLY:HA3	1:SB:402:ILE:HG22	1.99	0.45
1:SB:502:ALA:HB3	1:SB:510:ALA:HB3	1.98	0.45
1:TB:682:GLN:NE2	1:TB:682:GLN:O	2.50	0.45
1:VB:57:HIS:HB3	1:VB:109:ILE:HD11	1.99	0.45
1:WB:65:VAL:HG12	1:WB:83:LEU:HD23	1.98	0.45
1:YB:21:GLN:NE2	1:YB:39:ASP:HB2	2.31	0.45
1:ZB:682:GLN:O	1:ZB:682:GLN:NE2	2.50	0.45
1:AC:57:HIS:CD2	1:AC:111:PRO:HA	2.52	0.45
1:AC:799:THR:HA	1:AC:802:LEU:HD12	1.99	0.45
1:A:651:ARG:C	1:A:653:ALA:H	2.17	0.45
1:B:279:ARG:HE	1:D:338:GLN:HA	1.82	0.45
1:C:739:GLY:HA2	1:E:734:ARG:NH1	2.32	0.45
1:D:28:VAL:HG21	1:D:98:PRO:HB2	1.99	0.45
1:D:65:VAL:HG12	1:D:83:LEU:HD23	1.98	0.45
1:E:8:ILE:HG23	1:E:37:ARG:HD3	1.98	0.45
1:E:185:ARG:HG3	1:E:204:TYR:HE1	1.81	0.45
1:E:772:TYR:CE1	1:G:766:ARG:HB3	2.50	0.45
1:F:57:HIS:HB3	1:F:109:ILE:HD11	1.99	0.45
1:F:682:GLN:NE2	1:F:682:GLN:O	2.50	0.45
1:G:682:GLN:O	1:G:682:GLN:NE2	2.50	0.45
1:H:799:THR:HA	1:H:802:LEU:HD12	1.99	0.45
1:I:65:VAL:HG12	1:I:83:LEU:HD23	1.98	0.45
1:J:592:HIS:HA	1:J:595:SER:OG	2.16	0.45
1:K:65:VAL:HG12	1:K:83:LEU:HD23	1.98	0.45
1:L:57:HIS:CD2	1:L:111:PRO:HA	2.52	0.45
1:M:57:HIS:CD2	1:M:111:PRO:HA	2.52	0.45
1:M:229:LEU:HD13	1:M:265:GLU:HB3	1.97	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:596:ALA:HA	1:M:599:ILE:HG22	1.99	0.45
1:M:694:LEU:O	1:M:697:SER:HB2	2.16	0.45
1:O:694:LEU:O	1:O:697:SER:HB2	2.16	0.45
1:P:21:GLN:NE2	1:P:39:ASP:HB2	2.31	0.45
1:P:682:GLN:NE2	1:P:682:GLN:O	2.50	0.45
1:R:37:ARG:HE	1:R:42:ARG:HA	1.82	0.45
1:S:65:VAL:HG12	1:S:83:LEU:HD23	1.98	0.45
1:W:286:ASP:OD1	1:W:297:GLY:N	2.47	0.45
1:X:387:GLY:HA3	1:X:402:ILE:HG22	1.99	0.45
1:Y:65:VAL:HG12	1:Y:83:LEU:HD23	1.98	0.45
1:Z:286:ASP:OD1	1:Z:297:GLY:N	2.47	0.45
1:Z:594:ASN:HB3	1:Z:597:ARG:HD3	1.99	0.45
1:Z:799:THR:HA	1:Z:802:LEU:HD12	1.99	0.45
1:AA:37:ARG:HE	1:AA:42:ARG:HA	1.82	0.45
1:BA:592:HIS:HA	1:BA:595:SER:OG	2.16	0.45
1:CA:185:ARG:HG3	1:CA:204:TYR:HE1	1.81	0.45
1:EA:21:GLN:NE2	1:EA:39:ASP:HB2	2.31	0.45
1:EA:549:LEU:HD21	1:EA:561:LEU:HD21	1.99	0.45
1:FA:703:ARG:HA	1:FA:706:LEU:HB2	1.98	0.45
1:GA:21:GLN:NE2	1:GA:39:ASP:HB2	2.31	0.45
1:GA:587:THR:HG1	1:GA:588:PHE:H	1.65	0.45
1:HA:8:ILE:HG23	1:HA:37:ARG:HD3	1.98	0.45
1:HA:682:GLN:NE2	1:HA:682:GLN:O	2.50	0.45
1:IA:21:GLN:NE2	1:IA:39:ASP:HB2	2.31	0.45
1:IA:716:VAL:CG2	1:KA:708:GLU:HG2	2.47	0.45
1:IA:717:GLU:CB	1:KA:707:LEU:HB3	2.47	0.45
1:IA:805:GLY:HA2	1:IA:808:ARG:NE	2.32	0.45
1:JA:57:HIS:CD2	1:JA:111:PRO:HA	2.52	0.45
1:JA:57:HIS:HB3	1:JA:109:ILE:HD11	1.99	0.45
1:JA:65:VAL:HG12	1:JA:83:LEU:HD23	1.98	0.45
1:KA:387:GLY:HA3	1:KA:402:ILE:HG22	1.99	0.45
1:NA:65:VAL:HG12	1:NA:83:LEU:HD23	1.98	0.45
1:OA:37:ARG:HE	1:OA:42:ARG:HA	1.82	0.45
1:OA:57:HIS:CD2	1:OA:111:PRO:HA	2.52	0.45
1:OA:592:HIS:HA	1:OA:595:SER:OG	2.16	0.45
1:OA:682:GLN:NE2	1:OA:682:GLN:O	2.50	0.45
1:PA:21:GLN:NE2	1:PA:39:ASP:HB2	2.31	0.45
1:PA:682:GLN:NE2	1:PA:682:GLN:O	2.50	0.45
1:SA:387:GLY:HA3	1:SA:402:ILE:HG22	1.99	0.45
1:SA:592:HIS:HA	1:SA:595:SER:OG	2.16	0.45
1:TA:229:LEU:HD13	1:TA:265:GLU:HB3	1.97	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:TA:596:ALA:HA	1:TA:599:ILE:HG22	1.99	0.45
1:TA:702:ALA:HB3	1:VA:693:ILE:HG21	1.97	0.45
1:UA:592:HIS:HA	1:UA:595:SER:OG	2.16	0.45
1:UA:753:ILE:HG13	1:UA:756:GLU:CB	2.43	0.45
1:VA:285:LEU:N	1:VA:315:ARG:O	2.41	0.45
1:VA:549:LEU:HD21	1:VA:561:LEU:HD21	1.99	0.45
1:VA:805:GLY:HA2	1:VA:808:ARG:NE	2.31	0.45
1:WA:37:ARG:HE	1:WA:42:ARG:HA	1.82	0.45
1:WA:505:PRO:HA	1:WA:526:VAL:HG12	1.97	0.45
1:XA:57:HIS:CD2	1:XA:111:PRO:HA	2.52	0.45
1:XA:682:GLN:NE2	1:XA:682:GLN:O	2.50	0.45
1:ZA:286:ASP:OD1	1:ZA:297:GLY:N	2.47	0.45
1:AB:57:HIS:CD2	1:AB:111:PRO:HA	2.52	0.45
1:BB:185:ARG:HG3	1:BB:204:TYR:HE1	1.81	0.45
1:CB:21:GLN:NE2	1:CB:39:ASP:HB2	2.31	0.45
1:CB:596:ALA:HA	1:CB:599:ILE:HG22	1.99	0.45
1:EB:717:GLU:HB2	1:FB:707:LEU:CD1	2.40	0.45
1:HB:37:ARG:HE	1:HB:42:ARG:HA	1.82	0.45
1:IB:8:ILE:HG23	1:IB:37:ARG:HD3	1.98	0.45
1:IB:387:GLY:HA3	1:IB:402:ILE:HG22	1.99	0.45
1:JB:387:GLY:HA3	1:JB:402:ILE:HG22	1.99	0.45
1:JB:596:ALA:HA	1:JB:599:ILE:HG22	1.99	0.45
1:JB:805:GLY:HA2	1:JB:808:ARG:NE	2.31	0.45
1:KB:57:HIS:CD2	1:KB:111:PRO:HA	2.52	0.45
1:LB:229:LEU:HD13	1:LB:265:GLU:HB3	1.98	0.45
1:LB:695:ASP:O	1:MB:690:ARG:HG2	2.16	0.45
1:MB:21:GLN:NE2	1:MB:39:ASP:HB2	2.31	0.45
1:MB:57:HIS:CD2	1:MB:111:PRO:HA	2.52	0.45
1:MB:185:ARG:HG3	1:MB:204:TYR:HE1	1.81	0.45
1:NB:596:ALA:HA	1:NB:599:ILE:HG22	1.99	0.45
1:NB:799:THR:HA	1:NB:802:LEU:HD12	1.99	0.45
1:OB:32:PRO:HG2	1:PB:24:ASN:CA	2.46	0.45
1:OB:222:THR:HB	1:PB:248:GLU:OE2	2.17	0.45
1:OB:464:HIS:CE1	1:PB:496:THR:HG1	2.26	0.45
1:PB:594:ASN:HB3	1:PB:597:ARG:HD3	1.99	0.45
1:PB:682:GLN:NE2	1:PB:682:GLN:O	2.50	0.45
1:QB:387:GLY:HA3	1:QB:402:ILE:HG22	1.99	0.45
1:SB:596:ALA:HA	1:SB:599:ILE:HG22	1.99	0.45
1:SB:652:ASP:OD1	1:SB:652:ASP:N	2.48	0.45
1:TB:703:ARG:HA	1:TB:706:LEU:HB2	1.98	0.45
1:UB:805:GLY:HA2	1:UB:808:ARG:NE	2.32	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:WB:682:GLN:NE2	1:WB:682:GLN:O	2.50	0.45
1:WB:703:ARG:HA	1:WB:706:LEU:HB2	1.98	0.45
1:XB:596:ALA:HA	1:XB:599:ILE:HG22	1.99	0.45
1:YB:549:LEU:HD21	1:YB:561:LEU:HD21	1.99	0.45
1:ZB:28:VAL:HG21	1:ZB:98:PRO:HB2	1.99	0.45
1:ZB:57:HIS:HB3	1:ZB:109:ILE:HD11	1.99	0.45
1:B:65:VAL:HG12	1:B:83:LEU:HD23	1.99	0.45
1:B:594:ASN:HB3	1:B:597:ARG:HD3	1.99	0.45
1:C:185:ARG:HG3	1:C:204:TYR:HE1	1.81	0.45
1:C:204:TYR:OH	1:C:210:GLU:OE2	2.30	0.45
1:C:737:GLY:O	1:C:741:VAL:HG23	2.17	0.45
1:C:743:GLN:CD	1:E:733:ALA:HB1	2.37	0.45
1:D:32:PRO:HD3	1:F:76:ASP:OD2	2.17	0.45
1:D:737:GLY:O	1:D:741:VAL:HG23	2.17	0.45
1:E:57:HIS:HB3	1:E:109:ILE:HD11	1.99	0.45
1:E:549:LEU:HD21	1:E:561:LEU:HD21	1.99	0.45
1:F:596:ALA:HA	1:F:599:ILE:HG22	1.99	0.45
1:F:694:LEU:O	1:F:697:SER:HB2	2.16	0.45
1:F:805:GLY:HA2	1:F:808:ARG:NE	2.32	0.45
1:G:57:HIS:HB3	1:G:109:ILE:HD11	1.99	0.45
1:H:21:GLN:NE2	1:H:39:ASP:HB2	2.31	0.45
1:H:28:VAL:HG21	1:H:98:PRO:HB2	1.99	0.45
1:H:37:ARG:HE	1:H:42:ARG:HA	1.82	0.45
1:H:387:GLY:HA3	1:H:402:ILE:HG22	1.99	0.45
1:H:774:ARG:HA	1:H:777:LEU:HD13	1.99	0.45
1:I:805:GLY:HA2	1:I:808:ARG:NE	2.31	0.45
1:J:502:ALA:HB3	1:J:510:ALA:HB3	1.98	0.45
1:K:549:LEU:HD21	1:K:561:LEU:HD21	1.99	0.45
1:K:596:ALA:HA	1:K:599:ILE:HG22	1.99	0.45
1:L:21:GLN:NE2	1:L:39:ASP:HB2	2.31	0.45
1:M:57:HIS:HB3	1:M:109:ILE:HD11	1.99	0.45
1:N:502:ALA:HB3	1:N:510:ALA:HB3	1.98	0.45
1:N:596:ALA:HA	1:N:599:ILE:HG22	1.99	0.45
1:O:799:THR:HA	1:O:802:LEU:HD12	1.99	0.45
1:Q:37:ARG:HE	1:Q:42:ARG:HA	1.82	0.45
1:Q:737:GLY:O	1:Q:741:VAL:HG23	2.17	0.45
1:R:229:LEU:HD13	1:R:265:GLU:HB3	1.97	0.45
1:R:549:LEU:HD21	1:R:561:LEU:HD21	1.99	0.45
1:S:799:THR:HA	1:S:802:LEU:HD12	1.99	0.45
1:T:682:GLN:NE2	1:T:682:GLN:O	2.50	0.45
1:V:594:ASN:HB3	1:V:597:ARG:HD3	1.99	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:V:799:THR:HA	1:V:802:LEU:HD12	1.99	0.45
1:X:596:ALA:HA	1:X:599:ILE:HG22	1.99	0.45
1:X:799:THR:HA	1:X:802:LEU:HD12	1.99	0.45
1:Y:57:HIS:HB3	1:Y:109:ILE:HD11	1.99	0.45
1:Y:652:ASP:N	1:Y:652:ASP:OD1	2.48	0.45
1:AA:587:THR:HG1	1:AA:588:PHE:N	2.15	0.45
1:AA:774:ARG:HA	1:AA:777:LEU:HD13	1.99	0.45
1:BA:324:TYR:CE2	1:BA:373:VAL:HG21	2.52	0.45
1:BA:387:GLY:HA3	1:BA:402:ILE:HG22	1.99	0.45
1:BA:694:LEU:O	1:BA:697:SER:HB2	2.16	0.45
1:EA:682:GLN:NE2	1:EA:682:GLN:O	2.50	0.45
1:EA:805:GLY:HA2	1:EA:808:ARG:NE	2.31	0.45
1:FA:707:LEU:HD23	1:FA:707:LEU:HA	1.74	0.45
1:GA:753:ILE:HG13	1:GA:756:GLU:CB	2.43	0.45
1:HA:57:HIS:CD2	1:HA:111:PRO:HA	2.52	0.45
1:IA:279:ARG:HH12	1:KA:299:LYS:CE	2.29	0.45
1:JA:549:LEU:HD21	1:JA:561:LEU:HD21	1.99	0.45
1:MA:91:ARG:NH1	1:MA:94:GLN:OE1	2.39	0.45
1:NA:57:HIS:HB3	1:NA:109:ILE:HD11	1.99	0.45
1:NA:799:THR:HA	1:NA:802:LEU:HD12	1.99	0.45
1:OA:65:VAL:HG12	1:OA:83:LEU:HD23	1.98	0.45
1:OA:596:ALA:HA	1:OA:599:ILE:HG22	1.99	0.45
1:PA:91:ARG:NH1	1:PA:94:GLN:OE1	2.39	0.45
1:PA:324:TYR:CE2	1:PA:373:VAL:HG21	2.52	0.45
1:PA:639:ASP:HB3	1:RA:577:SER:HB2	1.98	0.45
1:PA:774:ARG:HA	1:PA:777:LEU:HD13	1.99	0.45
1:QA:21:GLN:NE2	1:QA:39:ASP:HB2	2.31	0.45
1:RA:28:VAL:HG21	1:RA:98:PRO:HB2	1.99	0.45
1:RA:682:GLN:O	1:RA:682:GLN:NE2	2.50	0.45
1:RA:694:LEU:O	1:RA:697:SER:HB2	2.16	0.45
1:RA:703:ARG:HA	1:RA:706:LEU:HB2	1.98	0.45
1:RA:799:THR:HA	1:RA:802:LEU:HD12	1.99	0.45
1:SA:229:LEU:HD13	1:SA:265:GLU:HB3	1.97	0.45
1:TA:549:LEU:HD21	1:TA:561:LEU:HD21	1.99	0.45
1:UA:37:ARG:HE	1:UA:42:ARG:HA	1.82	0.45
1:UA:387:GLY:HA3	1:UA:402:ILE:HG22	1.99	0.45
1:UA:394:LYS:HE3	1:UA:394:LYS:HB2	1.87	0.45
1:YA:594:ASN:HB3	1:YA:597:ARG:HD3	1.99	0.45
1:ZA:682:GLN:O	1:ZA:682:GLN:NE2	2.50	0.45
1:AB:703:ARG:HA	1:AB:706:LEU:HB2	1.98	0.45
1:AB:799:THR:HA	1:AB:802:LEU:HD12	1.99	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:BB:57:HIS:HB3	1:BB:109:ILE:HD11	1.99	0.45
1:BB:596:ALA:HA	1:BB:599:ILE:HG22	1.99	0.45
1:CB:774:ARG:HA	1:CB:777:LEU:HD13	1.99	0.45
1:DB:185:ARG:HG3	1:DB:204:TYR:HE1	1.81	0.45
1:EB:229:LEU:HD13	1:EB:265:GLU:HB3	1.97	0.45
1:EB:594:ASN:HB3	1:EB:597:ARG:HD3	1.99	0.45
1:FB:387:GLY:HA3	1:FB:402:ILE:HG22	1.99	0.45
1:FB:592:HIS:CD2	1:GB:584:ALA:C	2.91	0.45
1:FB:592:HIS:HA	1:FB:595:SER:OG	2.16	0.45
1:FB:682:GLN:O	1:FB:682:GLN:NE2	2.50	0.45
1:GB:737:GLY:O	1:GB:741:VAL:HG23	2.17	0.45
1:HB:596:ALA:HA	1:HB:599:ILE:HG22	1.99	0.45
1:HB:694:LEU:O	1:HB:697:SER:HB2	2.16	0.45
1:HB:707:LEU:HA	1:HB:707:LEU:HD23	1.74	0.45
1:KB:57:HIS:HB3	1:KB:109:ILE:HD11	1.99	0.45
1:KB:682:GLN:NE2	1:KB:682:GLN:O	2.50	0.45
1:LB:37:ARG:HE	1:LB:42:ARG:HA	1.82	0.45
1:LB:57:HIS:CD2	1:LB:111:PRO:HA	2.52	0.45
1:LB:324:TYR:CE2	1:LB:373:VAL:HG21	2.52	0.45
1:LB:591:PHE:CD1	1:LB:598:ILE:HD11	2.42	0.45
1:LB:710:GLU:HG3	1:MB:700:GLU:CD	2.29	0.45
1:LB:720:GLY:C	1:MB:711:ALA:HB1	2.35	0.45
1:MB:15:TYR:CZ	1:MB:98:PRO:HA	2.50	0.45
1:MB:286:ASP:OD1	1:MB:297:GLY:N	2.47	0.45
1:MB:596:ALA:HA	1:MB:599:ILE:HG22	1.99	0.45
1:NB:774:ARG:HA	1:NB:777:LEU:HD13	1.99	0.45
1:OB:325:VAL:HG21	1:PB:337:LEU:HD22	1.98	0.45
1:OB:596:ALA:HA	1:OB:599:ILE:HG22	1.99	0.45
1:PB:28:VAL:HG21	1:PB:98:PRO:HB2	1.99	0.45
1:QB:774:ARG:HA	1:QB:777:LEU:HD13	1.99	0.45
1:RB:57:HIS:HB3	1:RB:109:ILE:HD11	1.99	0.45
1:RB:695:ASP:CG	1:SB:686:GLY:CA	2.85	0.45
1:SB:592:HIS:HA	1:SB:595:SER:OG	2.16	0.45
1:SB:799:THR:HA	1:SB:802:LEU:HD12	1.99	0.45
1:TB:596:ALA:HA	1:TB:599:ILE:HG22	1.99	0.45
1:TB:655:GLN:CD	1:UB:649:ARG:CB	2.83	0.45
1:TB:774:ARG:HA	1:TB:777:LEU:HD13	1.99	0.45
1:UB:57:HIS:HB3	1:UB:109:ILE:HD11	1.99	0.45
1:UB:707:LEU:HD23	1:UB:707:LEU:HA	1.74	0.45
1:UB:739:GLY:HA2	1:VB:733:ALA:HB2	1.97	0.45
1:UB:757:ALA:CB	1:VB:751:LEU:CA	2.90	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:VB:8:ILE:HG23	1:VB:37:ARG:HD3	1.98	0.45
1:VB:37:ARG:HE	1:VB:42:ARG:HA	1.82	0.45
1:VB:682:GLN:O	1:VB:682:GLN:NE2	2.50	0.45
1:WB:594:ASN:HB3	1:WB:597:ARG:HD3	1.99	0.45
1:WB:774:ARG:HA	1:WB:777:LEU:HD13	1.99	0.45
1:XB:28:VAL:HG21	1:XB:98:PRO:HB2	1.99	0.45
1:YB:28:VAL:HG21	1:YB:98:PRO:HB2	1.99	0.45
1:YB:805:GLY:HA2	1:YB:808:ARG:NE	2.32	0.45
1:AC:596:ALA:HA	1:AC:599:ILE:HG22	1.99	0.45
1:A:8:ILE:HG23	1:A:37:ARG:HD3	1.98	0.45
1:A:185:ARG:HG3	1:A:204:TYR:HE1	1.81	0.45
1:A:587:THR:HG1	1:A:588:PHE:N	2.14	0.45
1:A:593:LYS:O	1:C:585:SER:HB3	2.17	0.45
1:A:751:LEU:O	1:NB:761:ARG:HG3	2.16	0.45
1:B:57:HIS:HB3	1:B:109:ILE:HD11	1.99	0.45
1:B:286:ASP:OD1	1:B:297:GLY:N	2.47	0.45
1:C:324:TYR:CE2	1:C:373:VAL:HG21	2.52	0.45
1:D:387:GLY:HA3	1:D:402:ILE:HG22	1.99	0.45
1:D:754:GLU:CG	1:F:744:ALA:CB	2.84	0.45
1:E:324:TYR:CE2	1:E:373:VAL:HG21	2.52	0.45
1:E:703:ARG:HA	1:E:706:LEU:HB2	1.98	0.45
1:E:799:THR:HA	1:E:802:LEU:HD12	1.99	0.45
1:F:324:TYR:CE2	1:F:373:VAL:HG21	2.52	0.45
1:F:594:ASN:HB3	1:F:597:ARG:HD3	1.99	0.45
1:H:549:LEU:HD21	1:H:561:LEU:HD21	1.99	0.45
1:I:37:ARG:HE	1:I:42:ARG:HA	1.82	0.45
1:I:324:TYR:CE2	1:I:373:VAL:HG21	2.52	0.45
1:J:651:ARG:C	1:J:653:ALA:H	2.17	0.45
1:J:737:GLY:O	1:J:741:VAL:HG23	2.17	0.45
1:K:229:LEU:HD13	1:K:265:GLU:HB3	1.98	0.45
1:L:594:ASN:HB3	1:L:597:ARG:HD3	1.99	0.45
1:M:37:ARG:HE	1:M:42:ARG:HA	1.82	0.45
1:N:799:THR:HA	1:N:802:LEU:HD12	1.99	0.45
1:O:591:PHE:CD1	1:O:598:ILE:HD11	2.42	0.45
1:O:592:HIS:HA	1:O:595:SER:OG	2.16	0.45
1:P:37:ARG:HE	1:P:42:ARG:HA	1.82	0.45
1:P:594:ASN:HB3	1:P:597:ARG:HD3	1.99	0.45
1:P:728:SER:HB2	1:R:722:ALA:CB	2.47	0.45
1:Q:682:GLN:NE2	1:Q:682:GLN:O	2.50	0.45
1:Q:703:ARG:HA	1:Q:706:LEU:HB2	1.98	0.45
1:S:57:HIS:CD2	1:S:111:PRO:HA	2.52	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:T:37:ARG:HE	1:T:42:ARG:HA	1.82	0.45
1:V:57:HIS:HB3	1:V:109:ILE:HD11	1.99	0.45
1:V:521:ASP:OD1	1:V:522:PHE:N	2.44	0.45
1:W:587:THR:HG1	1:W:588:PHE:H	1.63	0.45
1:X:324:TYR:CE2	1:X:373:VAL:HG21	2.52	0.45
1:X:737:GLY:O	1:X:741:VAL:HG23	2.17	0.45
1:Z:37:ARG:HE	1:Z:42:ARG:HA	1.82	0.45
1:AA:737:GLY:O	1:AA:741:VAL:HG23	2.17	0.45
1:BA:57:HIS:CD2	1:BA:111:PRO:HA	2.52	0.45
1:BA:805:GLY:HA2	1:BA:808:ARG:NE	2.31	0.45
1:CA:596:ALA:HA	1:CA:599:ILE:HG22	1.99	0.45
1:DA:28:VAL:HG21	1:DA:98:PRO:HB2	1.99	0.45
1:DA:37:ARG:HE	1:DA:42:ARG:HA	1.82	0.45
1:DA:703:ARG:HA	1:DA:706:LEU:HB2	1.98	0.45
1:DA:774:ARG:HA	1:DA:777:LEU:HD13	1.99	0.45
1:EA:324:TYR:CE2	1:EA:373:VAL:HG21	2.52	0.45
1:EA:591:PHE:CD1	1:EA:598:ILE:HD11	2.42	0.45
1:FA:37:ARG:HE	1:FA:42:ARG:HA	1.82	0.45
1:FA:286:ASP:OD1	1:FA:297:GLY:N	2.47	0.45
1:FA:799:THR:HA	1:FA:802:LEU:HD12	1.99	0.45
1:FA:805:GLY:HA2	1:FA:808:ARG:NE	2.32	0.45
1:GA:592:HIS:HA	1:GA:595:SER:OG	2.16	0.45
1:HA:28:VAL:HG21	1:HA:98:PRO:HB2	1.99	0.45
1:HA:549:LEU:HD21	1:HA:561:LEU:HD21	1.99	0.45
1:HA:737:GLY:O	1:HA:741:VAL:HG23	2.17	0.45
1:IA:699:ALA:HB2	1:KA:690:ARG:HG2	1.99	0.45
1:JA:387:GLY:HA3	1:JA:402:ILE:HG22	1.99	0.45
1:KA:549:LEU:HD21	1:KA:561:LEU:HD21	1.99	0.45
1:KA:795:PHE:HA	1:KA:798:MET:HB3	1.99	0.45
1:MA:737:GLY:O	1:MA:741:VAL:HG23	2.17	0.45
1:NA:805:GLY:HA2	1:NA:808:ARG:NE	2.31	0.45
1:PA:387:GLY:HA3	1:PA:402:ILE:HG22	1.99	0.45
1:RA:324:TYR:CE2	1:RA:373:VAL:HG21	2.52	0.45
1:RA:387:GLY:HA3	1:RA:402:ILE:HG22	1.99	0.45
1:TA:57:HIS:HB3	1:TA:109:ILE:HD11	1.99	0.45
1:TA:387:GLY:HA3	1:TA:402:ILE:HG22	1.99	0.45
1:TA:737:GLY:O	1:TA:741:VAL:HG23	2.17	0.45
1:TA:799:THR:HA	1:TA:802:LEU:HD12	1.99	0.45
1:UA:185:ARG:HG3	1:UA:204:TYR:HE1	1.81	0.45
1:UA:229:LEU:HD13	1:UA:265:GLU:HB3	1.97	0.45
1:UA:596:ALA:HA	1:UA:599:ILE:HG22	1.99	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:UA:774:ARG:HA	1:UA:777:LEU:HD13	1.99	0.45
1:WA:185:ARG:HG3	1:WA:204:TYR:HE1	1.81	0.45
1:XA:324:TYR:CE2	1:XA:373:VAL:HG21	2.52	0.45
1:XA:596:ALA:HA	1:XA:599:ILE:HG22	1.99	0.45
1:ZA:57:HIS:HB3	1:ZA:109:ILE:HD11	1.99	0.45
1:ZA:324:TYR:CE2	1:ZA:373:VAL:HG21	2.52	0.45
1:ZA:717:GLU:CB	1:BB:707:LEU:HD13	2.37	0.45
1:ZA:799:THR:HA	1:ZA:802:LEU:HD12	1.99	0.45
1:AB:37:ARG:HE	1:AB:42:ARG:HA	1.82	0.45
1:AB:57:HIS:HB3	1:AB:109:ILE:HD11	1.99	0.45
1:AB:737:GLY:O	1:AB:741:VAL:HG23	2.17	0.45
1:BB:549:LEU:HD21	1:BB:561:LEU:HD21	1.99	0.45
1:BB:652:ASP:OD1	1:BB:652:ASP:N	2.48	0.45
1:CB:57:HIS:CD2	1:CB:111:PRO:HA	2.52	0.45
1:DB:57:HIS:HB3	1:DB:109:ILE:HD11	1.99	0.45
1:DB:502:ALA:HB3	1:DB:510:ALA:HB3	1.98	0.45
1:EB:595:SER:CB	1:FB:580:ARG:HH12	2.29	0.45
1:FB:57:HIS:CD2	1:FB:111:PRO:HA	2.52	0.45
1:FB:324:TYR:CE2	1:FB:373:VAL:HG21	2.52	0.45
1:HB:706:LEU:HD21	1:IB:693:ILE:HG23	1.99	0.45
1:IB:65:VAL:HG12	1:IB:83:LEU:HD23	1.98	0.45
1:IB:594:ASN:HB3	1:IB:597:ARG:HD3	1.99	0.45
1:IB:737:GLY:O	1:IB:741:VAL:HG23	2.17	0.45
1:JB:682:GLN:O	1:JB:682:GLN:NE2	2.50	0.45
1:KB:65:VAL:HG12	1:KB:83:LEU:HD23	1.98	0.45
1:KB:596:ALA:HA	1:KB:599:ILE:HG22	1.99	0.45
1:LB:57:HIS:HB3	1:LB:109:ILE:HD11	1.99	0.45
1:LB:592:HIS:NE2	1:MB:531:THR:C	2.70	0.45
1:LB:795:PHE:HA	1:LB:798:MET:HB3	1.99	0.45
1:MB:703:ARG:HA	1:MB:706:LEU:HB2	1.98	0.45
1:NB:57:HIS:HB3	1:NB:109:ILE:HD11	1.99	0.45
1:NB:387:GLY:HA3	1:NB:402:ILE:HG22	1.99	0.45
1:OB:57:HIS:HB3	1:OB:109:ILE:HD11	1.99	0.45
1:OB:273:ILE:CD1	1:PB:296:LEU:HD22	2.47	0.45
1:OB:307:SER:HG	1:PB:296:LEU:C	2.17	0.45
1:OB:363:LEU:C	1:PB:353:ALA:CB	2.85	0.45
1:OB:384:GLN:CB	1:PB:474:ARG:CG	2.76	0.45
1:PB:324:TYR:CE2	1:PB:373:VAL:HG21	2.52	0.45
1:QB:664:ILE:HG13	1:QB:665:THR:N	2.32	0.45
1:SB:694:LEU:O	1:SB:697:SER:HB2	2.16	0.45
1:TB:57:HIS:CD2	1:TB:111:PRO:HA	2.52	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:TB:753:ILE:HG13	1:TB:756:GLU:CB	2.43	0.45
1:UB:174:LEU:HD11	1:UB:212:VAL:HG13	1.99	0.45
1:UB:691:GLN:HE22	1:VB:679:ARG:NE	2.14	0.45
1:UB:737:GLY:O	1:UB:741:VAL:HG23	2.17	0.45
1:VB:703:ARG:HA	1:VB:706:LEU:HB2	1.98	0.45
1:VB:724:ALA:HB1	1:WB:718:SER:HB3	1.97	0.45
1:VB:737:GLY:O	1:VB:741:VAL:HG23	2.17	0.45
1:VB:799:THR:HA	1:VB:802:LEU:HD12	1.99	0.45
1:WB:664:ILE:HG13	1:WB:665:THR:N	2.32	0.45
1:WB:799:THR:HA	1:WB:802:LEU:HD12	1.99	0.45
1:XB:591:PHE:CD1	1:XB:598:ILE:HD11	2.42	0.45
1:XB:594:ASN:HB3	1:XB:597:ARG:HD3	1.99	0.45
1:XB:682:GLN:NE2	1:XB:682:GLN:O	2.50	0.45
1:XB:774:ARG:HA	1:XB:777:LEU:HD13	1.99	0.45
1:XB:795:PHE:HA	1:XB:798:MET:HB3	1.99	0.45
1:AC:57:HIS:HB3	1:AC:109:ILE:HD11	1.99	0.45
1:AC:324:TYR:CE2	1:AC:373:VAL:HG21	2.52	0.45
1:A:682:GLN:NE2	1:A:682:GLN:O	2.50	0.45
1:A:713:SER:CB	1:C:703:ARG:HG2	2.32	0.45
1:F:37:ARG:HE	1:F:42:ARG:HA	1.82	0.45
1:G:737:GLY:O	1:G:741:VAL:HG23	2.17	0.45
1:G:799:THR:HA	1:G:802:LEU:HD12	1.99	0.45
1:H:682:GLN:O	1:H:682:GLN:NE2	2.50	0.45
1:H:795:PHE:HA	1:H:798:MET:HB3	1.99	0.45
1:I:664:ILE:HG13	1:I:665:THR:N	2.32	0.45
1:I:682:GLN:NE2	1:I:682:GLN:O	2.50	0.45
1:J:57:HIS:CD2	1:J:111:PRO:HA	2.52	0.45
1:K:682:GLN:O	1:K:682:GLN:NE2	2.50	0.45
1:L:96:PRO:HD3	1:N:85:HIS:CE1	2.52	0.45
1:L:596:ALA:HA	1:L:599:ILE:HG22	1.99	0.45
1:M:286:ASP:OD1	1:M:297:GLY:N	2.47	0.45
1:M:799:THR:HA	1:M:802:LEU:HD12	1.99	0.45
1:N:324:TYR:CE2	1:N:373:VAL:HG21	2.52	0.45
1:N:737:GLY:O	1:N:741:VAL:HG23	2.17	0.45
1:O:400:ALA:HB2	1:O:491:PRO:HD3	1.99	0.45
1:P:57:HIS:HB3	1:P:109:ILE:HD11	1.99	0.45
1:P:324:TYR:CE2	1:P:373:VAL:HG21	2.52	0.45
1:P:592:HIS:HA	1:P:595:SER:OG	2.16	0.45
1:Q:549:LEU:HD21	1:Q:561:LEU:HD21	1.99	0.45
1:Q:694:LEU:O	1:Q:697:SER:HB2	2.16	0.45
1:Q:799:THR:HA	1:Q:802:LEU:HD12	1.99	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:S:21:GLN:NE2	1:S:39:ASP:HB2	2.31	0.45
1:S:664:ILE:HG13	1:S:665:THR:N	2.32	0.45
1:S:707:LEU:HA	1:S:707:LEU:HD23	1.74	0.45
1:T:65:VAL:HG12	1:T:83:LEU:HD23	1.98	0.45
1:T:594:ASN:HB3	1:T:597:ARG:HD3	1.99	0.45
1:T:737:GLY:O	1:T:741:VAL:HG23	2.17	0.45
1:V:502:ALA:HB3	1:V:510:ALA:HB3	1.98	0.45
1:V:774:ARG:HA	1:V:777:LEU:HD13	1.99	0.45
1:W:37:ARG:HE	1:W:42:ARG:HA	1.82	0.45
1:X:65:VAL:HG12	1:X:83:LEU:HD23	1.98	0.45
1:X:682:GLN:NE2	1:X:682:GLN:O	2.50	0.45
1:Y:549:LEU:HD21	1:Y:561:LEU:HD21	1.99	0.45
1:Y:591:PHE:CD1	1:Y:598:ILE:HD11	2.42	0.45
1:Y:664:ILE:HG13	1:Y:665:THR:N	2.32	0.45
1:Z:65:VAL:HG12	1:Z:83:LEU:HD23	1.98	0.45
1:Z:400:ALA:HB2	1:Z:491:PRO:HD3	1.99	0.45
1:Z:682:GLN:O	1:Z:682:GLN:NE2	2.50	0.45
1:AA:596:ALA:HA	1:AA:599:ILE:HG22	1.99	0.45
1:BA:737:GLY:O	1:BA:741:VAL:HG23	2.17	0.45
1:CA:57:HIS:HB3	1:CA:109:ILE:HD11	1.99	0.45
1:CA:57:HIS:CD2	1:CA:111:PRO:HA	2.52	0.45
1:CA:805:GLY:HA2	1:CA:808:ARG:NE	2.32	0.45
1:DA:596:ALA:HA	1:DA:599:ILE:HG22	1.99	0.45
1:EA:799:THR:HA	1:EA:802:LEU:HD12	1.99	0.45
1:FA:174:LEU:HD11	1:FA:212:VAL:HG13	2.00	0.45
1:FA:400:ALA:HB2	1:FA:491:PRO:HD3	1.99	0.45
1:GA:400:ALA:HB2	1:GA:491:PRO:HD3	1.99	0.45
1:GA:521:ASP:OD1	1:GA:522:PHE:N	2.44	0.45
1:GA:694:LEU:O	1:GA:697:SER:HB2	2.16	0.45
1:HA:8:ILE:HD11	1:HA:35:TYR:CD2	2.51	0.45
1:HA:57:HIS:HB3	1:HA:109:ILE:HD11	1.99	0.45
1:HA:502:ALA:HB3	1:HA:510:ALA:HB3	1.98	0.45
1:IA:37:ARG:HE	1:IA:42:ARG:HA	1.82	0.45
1:IA:167:VAL:CG2	1:KA:192:THR:HG21	2.46	0.45
1:IA:174:LEU:HD11	1:IA:212:VAL:HG13	1.99	0.45
1:IA:521:ASP:OD1	1:IA:522:PHE:N	2.44	0.45
1:IA:587:THR:HG1	1:IA:588:PHE:N	2.15	0.45
1:IA:694:LEU:O	1:IA:697:SER:HB2	2.17	0.45
1:IA:724:ALA:CB	1:KA:714:MET:SD	3.05	0.45
1:IA:737:GLY:O	1:IA:741:VAL:HG23	2.17	0.45
1:JA:324:TYR:CE2	1:JA:373:VAL:HG21	2.52	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:LA:596:ALA:HA	1:LA:599:ILE:HG22	1.99	0.45
1:MA:664:ILE:HG13	1:MA:665:THR:N	2.32	0.45
1:MA:774:ARG:HA	1:MA:777:LEU:HD13	1.99	0.45
1:NA:664:ILE:HG13	1:NA:665:THR:N	2.32	0.45
1:NA:682:GLN:O	1:NA:682:GLN:NE2	2.50	0.45
1:PA:664:ILE:HG13	1:PA:665:THR:N	2.32	0.45
1:PA:805:GLY:HA2	1:PA:808:ARG:NE	2.31	0.45
1:RA:594:ASN:HB3	1:RA:597:ARG:HD3	1.99	0.45
1:RA:596:ALA:HA	1:RA:599:ILE:HG22	1.99	0.45
1:RA:737:GLY:O	1:RA:741:VAL:HG23	2.17	0.45
1:SA:774:ARG:HA	1:SA:777:LEU:HD13	1.99	0.45
1:TA:65:VAL:HG12	1:TA:83:LEU:HD23	1.98	0.45
1:UA:703:ARG:HA	1:UA:706:LEU:HB2	1.98	0.45
1:UA:737:GLY:O	1:UA:741:VAL:HG23	2.17	0.45
1:VA:37:ARG:HE	1:VA:42:ARG:HA	1.82	0.45
1:VA:596:ALA:HA	1:VA:599:ILE:HG22	1.99	0.45
1:VA:664:ILE:HG13	1:VA:665:THR:N	2.32	0.45
1:WA:8:ILE:HD11	1:WA:35:TYR:CD2	2.51	0.45
1:WA:57:HIS:HB3	1:WA:109:ILE:HD11	1.99	0.45
1:WA:682:GLN:NE2	1:WA:682:GLN:O	2.50	0.45
1:XA:37:ARG:HE	1:XA:42:ARG:HA	1.82	0.45
1:XA:774:ARG:HA	1:XA:777:LEU:HD13	1.99	0.45
1:XA:805:GLY:HA2	1:XA:808:ARG:NE	2.32	0.45
1:YA:703:ARG:HA	1:YA:706:LEU:HB2	1.98	0.45
1:YA:805:GLY:HA2	1:YA:808:ARG:NE	2.31	0.45
1:ZA:795:PHE:HA	1:ZA:798:MET:HB3	1.99	0.45
1:AB:774:ARG:HA	1:AB:777:LEU:HD13	1.99	0.45
1:BB:753:ILE:CG2	1:CB:744:ALA:HB1	2.45	0.45
1:BB:805:GLY:HA2	1:BB:808:ARG:NE	2.32	0.45
1:CB:387:GLY:HA3	1:CB:402:ILE:HG22	1.99	0.45
1:CB:502:ALA:HB3	1:CB:510:ALA:HB3	1.98	0.45
1:CB:737:GLY:O	1:CB:741:VAL:HG23	2.17	0.45
1:CB:768:MET:SD	1:DB:759:LEU:HD12	2.57	0.45
1:DB:387:GLY:HA3	1:DB:402:ILE:HG22	1.99	0.45
1:EB:21:GLN:NE2	1:EB:39:ASP:HB2	2.31	0.45
1:EB:549:LEU:HD21	1:EB:561:LEU:HD21	1.99	0.45
1:EB:694:LEU:O	1:EB:697:SER:HB2	2.16	0.45
1:FB:591:PHE:CD1	1:FB:598:ILE:HD11	2.42	0.45
1:FB:640:VAL:C	1:GB:577:SER:CB	2.80	0.45
1:FB:694:LEU:O	1:FB:697:SER:HB2	2.16	0.45
1:GB:57:HIS:HB3	1:GB:109:ILE:HD11	1.99	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:GB:694:LEU:O	1:GB:697:SER:HB2	2.17	0.45
1:GB:799:THR:HA	1:GB:802:LEU:HD12	1.99	0.45
1:HB:21:GLN:NE2	1:HB:39:ASP:HB2	2.31	0.45
1:HB:799:THR:HA	1:HB:802:LEU:HD12	1.99	0.45
1:IB:591:PHE:CD1	1:IB:598:ILE:HD11	2.42	0.45
1:IB:682:GLN:NE2	1:IB:682:GLN:O	2.50	0.45
1:IB:774:ARG:HA	1:IB:777:LEU:HD13	1.99	0.45
1:JB:324:TYR:CE2	1:JB:373:VAL:HG21	2.52	0.45
1:JB:502:ALA:HB3	1:JB:510:ALA:HB3	1.98	0.45
1:KB:799:THR:HA	1:KB:802:LEU:HD12	1.99	0.45
1:LB:682:GLN:NE2	1:LB:682:GLN:O	2.50	0.45
1:LB:805:GLY:HA2	1:LB:808:ARG:NE	2.31	0.45
1:MB:236:LYS:HE3	1:MB:236:LYS:HB2	1.77	0.45
1:MB:387:GLY:HA3	1:MB:402:ILE:HG22	1.99	0.45
1:MB:502:ALA:HB3	1:MB:510:ALA:HB3	1.98	0.45
1:NB:664:ILE:HG13	1:NB:665:THR:N	2.32	0.45
1:OB:174:LEU:HD11	1:OB:212:VAL:HG13	2.00	0.45
1:OB:682:GLN:NE2	1:OB:682:GLN:O	2.50	0.45
1:OB:779:LEU:HD23	1:PB:777:LEU:HD12	1.99	0.45
1:OB:805:GLY:HA2	1:OB:808:ARG:NE	2.32	0.45
1:PB:651:ARG:C	1:PB:653:ALA:H	2.17	0.45
1:QB:805:GLY:HA2	1:QB:808:ARG:NE	2.31	0.45
1:RB:400:ALA:HB2	1:RB:491:PRO:HD3	1.99	0.45
1:RB:682:GLN:O	1:RB:682:GLN:NE2	2.50	0.45
1:RB:694:LEU:O	1:RB:697:SER:HB2	2.17	0.45
1:SB:57:HIS:CD2	1:SB:111:PRO:HA	2.52	0.45
1:SB:682:GLN:NE2	1:SB:682:GLN:O	2.50	0.45
1:TB:549:LEU:HD21	1:TB:561:LEU:HD21	1.99	0.45
1:TB:664:ILE:HG13	1:TB:665:THR:N	2.32	0.45
1:TB:737:GLY:O	1:TB:741:VAL:HG23	2.17	0.45
1:UB:406:TYR:HH	1:UB:412:GLU:CD	2.20	0.45
1:UB:742:LEU:HG	1:VB:737:GLY:CA	2.44	0.45
1:UB:802:LEU:HD23	1:VB:807:ILE:HG12	1.99	0.45
1:VB:65:VAL:HG12	1:VB:83:LEU:HD23	1.98	0.45
1:VB:805:GLY:HA2	1:VB:808:ARG:NE	2.32	0.45
1:WB:28:VAL:HG21	1:WB:98:PRO:HB2	1.99	0.45
1:WB:502:ALA:HB3	1:WB:510:ALA:HB3	1.98	0.45
1:WB:596:ALA:HA	1:WB:599:ILE:HG22	1.99	0.45
1:XB:57:HIS:HB3	1:XB:109:ILE:HD11	1.99	0.45
1:XB:324:TYR:CE2	1:XB:373:VAL:HG21	2.52	0.45
1:XB:549:LEU:HD21	1:XB:561:LEU:HD21	1.99	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:XB:664:ILE:HG13	1:XB:665:THR:N	2.32	0.45
1:YB:682:GLN:O	1:YB:682:GLN:NE2	2.50	0.45
1:AC:521:ASP:OD1	1:AC:522:PHE:N	2.44	0.45
1:A:37:ARG:HE	1:A:42:ARG:HA	1.82	0.44
1:A:57:HIS:CD2	1:A:111:PRO:HA	2.52	0.44
1:A:805:GLY:HA2	1:A:808:ARG:NE	2.31	0.44
1:B:799:THR:HA	1:B:802:LEU:HD12	1.99	0.44
1:C:802:LEU:HD21	1:E:795:PHE:CD2	2.44	0.44
1:D:549:LEU:HD21	1:D:561:LEU:HD21	1.99	0.44
1:D:664:ILE:HG13	1:D:665:THR:N	2.32	0.44
1:D:694:LEU:O	1:D:697:SER:HB2	2.16	0.44
1:F:506:LYS:HA	1:F:506:LYS:HD3	1.81	0.44
1:G:174:LEU:HD11	1:G:212:VAL:HG13	1.99	0.44
1:G:400:ALA:HB2	1:G:491:PRO:HD3	2.00	0.44
1:G:664:ILE:HG13	1:G:665:THR:N	2.33	0.44
1:G:757:ALA:HB2	1:I:748:ALA:HB1	1.98	0.44
1:G:801:ALA:HB1	1:I:796:LYS:HA	1.99	0.44
1:G:805:GLY:HA2	1:G:808:ARG:NE	2.31	0.44
1:H:502:ALA:HB3	1:H:510:ALA:HB3	1.98	0.44
1:I:652:ASP:OD1	1:I:652:ASP:N	2.48	0.44
1:J:324:TYR:CE2	1:J:373:VAL:HG21	2.52	0.44
1:J:387:GLY:HA3	1:J:402:ILE:HG22	1.99	0.44
1:J:406:TYR:HH	1:J:412:GLU:CD	2.20	0.44
1:K:61:VAL:H	1:K:88:GLN:HE22	1.66	0.44
1:K:502:ALA:HB3	1:K:510:ALA:HB3	1.98	0.44
1:L:57:HIS:HB3	1:L:109:ILE:HD11	1.99	0.44
1:L:591:PHE:CD1	1:L:598:ILE:HD11	2.43	0.44
1:M:21:GLN:NE2	1:M:39:ASP:HB2	2.31	0.44
1:M:391:GLN:HB2	1:M:415:TRP:HB2	2.00	0.44
1:M:737:GLY:O	1:M:741:VAL:HG23	2.17	0.44
1:N:506:LYS:HD3	1:N:506:LYS:HA	1.81	0.44
1:O:387:GLY:HA3	1:O:402:ILE:HG22	1.99	0.44
1:O:682:GLN:O	1:O:682:GLN:NE2	2.50	0.44
1:O:795:PHE:HA	1:O:798:MET:HB3	1.99	0.44
1:P:57:HIS:CD2	1:P:111:PRO:HA	2.52	0.44
1:Q:57:HIS:HB3	1:Q:109:ILE:HD11	1.99	0.44
1:Q:731:GLU:OE1	1:Q:734:ARG:HG3	2.18	0.44
1:R:324:TYR:CE2	1:R:373:VAL:HG21	2.52	0.44
1:R:591:PHE:CD1	1:R:598:ILE:HD11	2.42	0.44
1:R:694:LEU:O	1:R:697:SER:HB2	2.16	0.44
1:T:707:LEU:HD23	1:T:707:LEU:HA	1.74	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:V:805:GLY:HA2	1:V:808:ARG:NE	2.32	0.44
1:W:682:GLN:O	1:W:682:GLN:NE2	2.50	0.44
1:Y:57:HIS:CD2	1:Y:111:PRO:HA	2.52	0.44
1:Y:185:ARG:HG3	1:Y:204:TYR:HE1	1.81	0.44
1:Y:502:ALA:HB3	1:Y:510:ALA:HB3	1.98	0.44
1:Y:596:ALA:HA	1:Y:599:ILE:HG22	1.99	0.44
1:Y:682:GLN:NE2	1:Y:682:GLN:O	2.50	0.44
1:Z:502:ALA:HB3	1:Z:510:ALA:HB3	1.98	0.44
1:AA:8:ILE:HG23	1:AA:37:ARG:HD3	1.98	0.44
1:BA:394:LYS:HE3	1:BA:394:LYS:HB2	1.87	0.44
1:BA:691:GLN:OE1	1:DA:679:ARG:NE	2.50	0.44
1:CA:324:TYR:CE2	1:CA:373:VAL:HG21	2.52	0.44
1:CA:391:GLN:HB2	1:CA:415:TRP:HB2	2.00	0.44
1:DA:21:GLN:NE2	1:DA:39:ASP:HB2	2.31	0.44
1:DA:57:HIS:CD2	1:DA:111:PRO:HA	2.52	0.44
1:EA:61:VAL:H	1:EA:88:GLN:HE22	1.65	0.44
1:EA:387:GLY:HA3	1:EA:402:ILE:HG22	1.99	0.44
1:EA:502:ALA:HB3	1:EA:510:ALA:HB3	1.98	0.44
1:EA:521:ASP:OD1	1:EA:522:PHE:N	2.44	0.44
1:FA:28:VAL:HG21	1:FA:98:PRO:HB2	1.99	0.44
1:FA:324:TYR:CE2	1:FA:373:VAL:HG21	2.52	0.44
1:FA:596:ALA:HA	1:FA:599:ILE:HG22	1.99	0.44
1:GA:594:ASN:HB3	1:GA:597:ARG:HD3	1.99	0.44
1:GA:664:ILE:HG13	1:GA:665:THR:N	2.33	0.44
1:GA:805:GLY:HA2	1:GA:808:ARG:NE	2.32	0.44
1:HA:798:MET:SD	1:JA:795:PHE:CE2	3.10	0.44
1:KA:286:ASP:OD1	1:KA:297:GLY:N	2.47	0.44
1:KA:682:GLN:NE2	1:KA:682:GLN:O	2.50	0.44
1:KA:753:ILE:HG13	1:KA:756:GLU:CB	2.43	0.44
1:LA:703:ARG:HA	1:LA:706:LEU:HB2	1.98	0.44
1:MA:8:ILE:HG23	1:MA:37:ARG:HD3	1.98	0.44
1:MA:57:HIS:CD2	1:MA:111:PRO:HA	2.52	0.44
1:MA:61:VAL:H	1:MA:88:GLN:HE22	1.66	0.44
1:MA:387:GLY:HA3	1:MA:402:ILE:HG22	1.99	0.44
1:NA:594:ASN:HB3	1:NA:597:ARG:HD3	1.99	0.44
1:NA:795:PHE:HA	1:NA:798:MET:HB3	1.99	0.44
1:OA:795:PHE:HA	1:OA:798:MET:HB3	2.00	0.44
1:OA:799:THR:HA	1:OA:802:LEU:HD12	1.99	0.44
1:QA:324:TYR:CE2	1:QA:373:VAL:HG21	2.52	0.44
1:QA:387:GLY:HA3	1:QA:402:ILE:HG22	1.99	0.44
1:QA:652:ASP:N	1:QA:652:ASP:OD1	2.48	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:QA:707:LEU:HA	1:QA:707:LEU:HD23	1.74	0.44
1:QA:737:GLY:O	1:QA:741:VAL:HG23	2.17	0.44
1:RA:65:VAL:HG12	1:RA:83:LEU:HD23	1.98	0.44
1:RA:299:LYS:NZ	1:RA:317:GLU:OE2	2.32	0.44
1:SA:324:TYR:CE2	1:SA:373:VAL:HG21	2.52	0.44
1:SA:664:ILE:HG13	1:SA:665:THR:N	2.32	0.44
1:TA:174:LEU:HD11	1:TA:212:VAL:HG13	1.99	0.44
1:TA:664:ILE:HG13	1:TA:665:THR:N	2.32	0.44
1:UA:21:GLN:NE2	1:UA:39:ASP:HB2	2.31	0.44
1:UA:324:TYR:CE2	1:UA:373:VAL:HG21	2.52	0.44
1:VA:57:HIS:CD2	1:VA:111:PRO:HA	2.52	0.44
1:VA:400:ALA:HB2	1:VA:491:PRO:HD3	2.00	0.44
1:VA:774:ARG:HA	1:VA:777:LEU:HD13	1.99	0.44
1:WA:61:VAL:H	1:WA:88:GLN:HE22	1.65	0.44
1:WA:594:ASN:HB3	1:WA:597:ARG:HD3	1.99	0.44
1:WA:703:ARG:HA	1:WA:706:LEU:HB2	1.98	0.44
1:XA:387:GLY:HA3	1:XA:402:ILE:HG22	1.99	0.44
1:XA:684:ALA:CB	1:ZA:675:HIS:CG	3.00	0.44
1:XA:737:GLY:O	1:XA:741:VAL:HG23	2.17	0.44
1:YA:549:LEU:HD21	1:YA:561:LEU:HD21	1.99	0.44
1:YA:737:GLY:O	1:YA:741:VAL:HG23	2.17	0.44
1:ZA:185:ARG:HG3	1:ZA:204:TYR:HE1	1.81	0.44
1:ZA:594:ASN:HB3	1:ZA:597:ARG:HD3	1.99	0.44
1:ZA:596:ALA:HA	1:ZA:599:ILE:HG22	1.99	0.44
1:CB:694:LEU:O	1:CB:697:SER:HB2	2.16	0.44
1:CB:757:ALA:HB2	1:DB:748:ALA:HB1	1.98	0.44
1:CB:768:MET:SD	1:DB:759:LEU:CD1	3.05	0.44
1:DB:694:LEU:O	1:DB:697:SER:HB2	2.16	0.44
1:EB:502:ALA:HB3	1:EB:510:ALA:HB3	1.98	0.44
1:FB:522:PHE:CB	1:GB:573:LYS:HE2	2.47	0.44
1:GB:229:LEU:HD13	1:GB:265:GLU:HB3	1.97	0.44
1:HB:324:TYR:CE2	1:HB:373:VAL:HG21	2.52	0.44
1:HB:400:ALA:HB2	1:HB:491:PRO:HD3	1.99	0.44
1:HB:703:ARG:HA	1:HB:706:LEU:HB2	1.98	0.44
1:IB:57:HIS:HB3	1:IB:109:ILE:HD11	1.99	0.44
1:IB:286:ASP:OD1	1:IB:297:GLY:N	2.47	0.44
1:IB:549:LEU:HD21	1:IB:561:LEU:HD21	1.99	0.44
1:KB:28:VAL:HG21	1:KB:98:PRO:HB2	1.99	0.44
1:LB:400:ALA:HB2	1:LB:491:PRO:HD3	1.99	0.44
1:LB:593:LYS:O	1:MB:585:SER:CB	2.64	0.44
1:LB:673:ALA:CB	1:MB:664:ILE:HB	2.47	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:LB:703:ARG:HA	1:LB:706:LEU:HB2	1.98	0.44
1:MB:61:VAL:H	1:MB:88:GLN:HE22	1.65	0.44
1:MB:549:LEU:HD21	1:MB:561:LEU:HD21	1.99	0.44
1:OB:37:ARG:HE	1:OB:42:ARG:HA	1.82	0.44
1:OB:655:GLN:HE21	1:PB:649:ARG:HB3	1.82	0.44
1:OB:753:ILE:HG13	1:OB:756:GLU:CB	2.43	0.44
1:PB:174:LEU:HD11	1:PB:212:VAL:HG13	1.99	0.44
1:QB:502:ALA:HB3	1:QB:510:ALA:HB3	1.98	0.44
1:RB:768:MET:CE	1:SB:763:LYS:HB2	2.46	0.44
1:UB:324:TYR:CE2	1:UB:373:VAL:HG21	2.52	0.44
1:UB:400:ALA:HB2	1:UB:491:PRO:HD3	2.00	0.44
1:UB:502:ALA:HB3	1:UB:510:ALA:HB3	1.98	0.44
1:UB:596:ALA:HA	1:UB:599:ILE:HG22	1.99	0.44
1:UB:682:GLN:O	1:UB:682:GLN:NE2	2.50	0.44
1:VB:391:GLN:HB2	1:VB:415:TRP:HB2	2.00	0.44
1:XB:57:HIS:CD2	1:XB:111:PRO:HA	2.52	0.44
1:XB:694:LEU:O	1:XB:697:SER:HB2	2.16	0.44
1:YB:400:ALA:HB2	1:YB:491:PRO:HD3	2.00	0.44
1:ZB:8:ILE:HG23	1:ZB:37:ARG:HD3	1.98	0.44
1:ZB:387:GLY:HA3	1:ZB:402:ILE:HG22	1.99	0.44
1:AC:774:ARG:HA	1:AC:777:LEU:HD13	1.99	0.44
1:AC:805:GLY:HA2	1:AC:808:ARG:NE	2.31	0.44
1:B:535:ALA:CA	1:AC:658:VAL:HG13	2.45	0.44
1:B:682:GLN:NE2	1:B:682:GLN:O	2.50	0.44
1:C:8:ILE:HG23	1:C:37:ARG:HD3	1.98	0.44
1:C:682:GLN:O	1:C:682:GLN:NE2	2.50	0.44
1:D:544:ASN:CG	1:F:630:GLN:OE1	2.56	0.44
1:E:37:ARG:HE	1:E:42:ARG:HA	1.82	0.44
1:E:720:GLY:C	1:G:711:ALA:HB1	2.38	0.44
1:E:731:GLU:OE1	1:E:734:ARG:HG3	2.18	0.44
1:E:795:PHE:HA	1:E:798:MET:HB3	1.99	0.44
1:F:549:LEU:HD21	1:F:561:LEU:HD21	1.99	0.44
1:G:21:GLN:NE2	1:G:39:ASP:HB2	2.31	0.44
1:G:65:VAL:HG12	1:G:83:LEU:HD23	1.98	0.44
1:G:387:GLY:HA3	1:G:402:ILE:HG22	1.99	0.44
1:G:703:ARG:HA	1:G:706:LEU:HB2	1.98	0.44
1:H:400:ALA:HB2	1:H:491:PRO:HD3	2.00	0.44
1:H:731:GLU:OE1	1:H:734:ARG:HG3	2.18	0.44
1:I:174:LEU:HD11	1:I:212:VAL:HG13	1.99	0.44
1:I:596:ALA:HA	1:I:599:ILE:HG22	1.99	0.44
1:I:774:ARG:HA	1:I:777:LEU:HD13	1.99	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:174:LEU:HD11	1:J:212:VAL:HG13	1.99	0.44
1:J:549:LEU:HD21	1:J:561:LEU:HD21	1.99	0.44
1:K:57:HIS:HB3	1:K:109:ILE:HD11	1.99	0.44
1:K:591:PHE:CD1	1:K:598:ILE:HD11	2.42	0.44
1:K:774:ARG:HA	1:K:777:LEU:HD13	1.99	0.44
1:K:799:THR:HA	1:K:802:LEU:HD12	1.99	0.44
1:N:400:ALA:HB2	1:N:491:PRO:HD3	2.00	0.44
1:N:640:VAL:CG1	1:P:580:ARG:NH2	2.68	0.44
1:O:324:TYR:CE2	1:O:373:VAL:HG21	2.52	0.44
1:P:549:LEU:HD21	1:P:561:LEU:HD21	1.99	0.44
1:P:664:ILE:HG13	1:P:665:THR:N	2.32	0.44
1:P:799:THR:HA	1:P:802:LEU:HD12	1.99	0.44
1:S:8:ILE:HG23	1:S:37:ARG:HD3	1.98	0.44
1:S:61:VAL:H	1:S:88:GLN:HE22	1.66	0.44
1:T:57:HIS:CD2	1:T:111:PRO:HA	2.52	0.44
1:V:65:VAL:HG12	1:V:83:LEU:HD23	1.98	0.44
1:V:682:GLN:NE2	1:V:682:GLN:O	2.50	0.44
1:W:57:HIS:HB3	1:W:109:ILE:HD11	1.99	0.44
1:W:65:VAL:HG12	1:W:83:LEU:HD23	1.98	0.44
1:W:174:LEU:HD11	1:W:212:VAL:HG13	1.99	0.44
1:W:805:GLY:HA2	1:W:808:ARG:NE	2.31	0.44
1:Y:61:VAL:H	1:Y:88:GLN:HE22	1.66	0.44
1:Z:61:VAL:H	1:Z:88:GLN:HE22	1.66	0.44
1:Z:299:LYS:NZ	1:Z:317:GLU:OE2	2.32	0.44
1:Z:596:ALA:HA	1:Z:599:ILE:HG22	1.99	0.44
1:BA:8:ILE:HD11	1:BA:35:TYR:CD2	2.51	0.44
1:BA:682:GLN:O	1:BA:682:GLN:NE2	2.50	0.44
1:CA:502:ALA:HB3	1:CA:510:ALA:HB3	1.98	0.44
1:CA:682:GLN:O	1:CA:682:GLN:NE2	2.50	0.44
1:CA:799:THR:HA	1:CA:802:LEU:HD12	1.99	0.44
1:DA:394:LYS:HE3	1:DA:394:LYS:HB2	1.87	0.44
1:FA:65:VAL:HG12	1:FA:83:LEU:HD23	1.99	0.44
1:FA:391:GLN:HB2	1:FA:415:TRP:HB2	2.00	0.44
1:GA:737:GLY:O	1:GA:741:VAL:HG23	2.17	0.44
1:GA:795:PHE:HA	1:GA:798:MET:HB3	1.99	0.44
1:HA:795:PHE:HA	1:HA:798:MET:HB3	1.99	0.44
1:IA:28:VAL:HG21	1:IA:98:PRO:HB2	1.98	0.44
1:IA:57:HIS:CD2	1:IA:111:PRO:HA	2.52	0.44
1:IA:57:HIS:HB3	1:IA:109:ILE:HD11	1.99	0.44
1:IA:65:VAL:HG12	1:IA:83:LEU:HD23	1.98	0.44
1:IA:278:PRO:CD	1:KA:298:GLN:HA	2.44	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:IA:286:ASP:OD1	1:IA:297:GLY:N	2.47	0.44
1:IA:324:TYR:CE2	1:IA:373:VAL:HG21	2.52	0.44
1:JA:737:GLY:O	1:JA:741:VAL:HG23	2.17	0.44
1:KA:774:ARG:HA	1:KA:777:LEU:HD13	1.99	0.44
1:LA:400:ALA:HB2	1:LA:491:PRO:HD3	1.99	0.44
1:LA:737:GLY:O	1:LA:741:VAL:HG23	2.17	0.44
1:LA:799:THR:HA	1:LA:802:LEU:HD12	1.99	0.44
1:NA:57:HIS:CD2	1:NA:111:PRO:HA	2.52	0.44
1:NA:185:ARG:HG3	1:NA:204:TYR:HE1	1.81	0.44
1:NA:406:TYR:HH	1:NA:412:GLU:CD	2.20	0.44
1:NA:549:LEU:HD21	1:NA:561:LEU:HD21	1.99	0.44
1:OA:174:LEU:HD11	1:OA:212:VAL:HG13	1.99	0.44
1:OA:594:ASN:HB3	1:OA:597:ARG:HD3	1.99	0.44
1:OA:737:GLY:O	1:OA:741:VAL:HG23	2.17	0.44
1:PA:596:ALA:HA	1:PA:599:ILE:HG22	1.99	0.44
1:QA:37:ARG:HE	1:QA:42:ARG:HA	1.82	0.44
1:QA:57:HIS:HB3	1:QA:109:ILE:HD11	1.99	0.44
1:QA:174:LEU:HD11	1:QA:212:VAL:HG13	1.99	0.44
1:RA:174:LEU:HD11	1:RA:212:VAL:HG13	1.99	0.44
1:TA:682:GLN:NE2	1:TA:682:GLN:O	2.50	0.44
1:VA:591:PHE:CD1	1:VA:598:ILE:HD11	2.43	0.44
1:VA:703:ARG:HA	1:VA:706:LEU:HB2	1.98	0.44
1:WA:387:GLY:HA3	1:WA:402:ILE:HG22	1.99	0.44
1:WA:394:LYS:HE3	1:WA:394:LYS:HB2	1.87	0.44
1:WA:400:ALA:HB2	1:WA:491:PRO:HD3	1.99	0.44
1:WA:596:ALA:HA	1:WA:599:ILE:HG22	1.99	0.44
1:WA:799:THR:HA	1:WA:802:LEU:HD12	1.99	0.44
1:XA:595:SER:CB	1:ZA:580:ARG:HH12	2.31	0.44
1:YA:28:VAL:HG21	1:YA:98:PRO:HB2	1.98	0.44
1:YA:324:TYR:CE2	1:YA:373:VAL:HG21	2.52	0.44
1:YA:502:ALA:HB3	1:YA:510:ALA:HB3	1.98	0.44
1:ZA:37:ARG:HE	1:ZA:42:ARG:HA	1.82	0.44
1:ZA:694:LEU:O	1:ZA:697:SER:HB2	2.16	0.44
1:AB:324:TYR:CE2	1:AB:373:VAL:HG21	2.52	0.44
1:AB:549:LEU:HD21	1:AB:561:LEU:HD21	1.99	0.44
1:BB:28:VAL:HG21	1:BB:98:PRO:HB2	1.99	0.44
1:BB:37:ARG:HE	1:BB:42:ARG:HA	1.82	0.44
1:BB:664:ILE:HG13	1:BB:665:THR:N	2.32	0.44
1:BB:694:LEU:O	1:BB:697:SER:HB2	2.17	0.44
1:BB:737:GLY:O	1:BB:741:VAL:HG23	2.17	0.44
1:DB:594:ASN:HB3	1:DB:597:ARG:HD3	1.99	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:DB:652:ASP:OD1	1:DB:652:ASP:N	2.48	0.44
1:DB:731:GLU:OE1	1:DB:734:ARG:HG3	2.18	0.44
1:DB:774:ARG:HA	1:DB:777:LEU:HD13	1.99	0.44
1:DB:799:THR:HA	1:DB:802:LEU:HD12	1.99	0.44
1:EB:57:HIS:HB3	1:EB:109:ILE:HD11	1.99	0.44
1:EB:61:VAL:H	1:EB:88:GLN:HE22	1.65	0.44
1:EB:324:TYR:CE2	1:EB:373:VAL:HG21	2.52	0.44
1:EB:387:GLY:HA3	1:EB:402:ILE:HG22	1.99	0.44
1:EB:506:LYS:HD3	1:EB:506:LYS:HA	1.81	0.44
1:EB:682:GLN:NE2	1:EB:682:GLN:O	2.50	0.44
1:EB:753:ILE:HG13	1:EB:756:GLU:CB	2.43	0.44
1:EB:799:THR:HA	1:EB:802:LEU:HD12	1.99	0.44
1:FB:61:VAL:H	1:FB:88:GLN:HE22	1.66	0.44
1:GB:324:TYR:CE2	1:GB:373:VAL:HG21	2.52	0.44
1:HB:57:HIS:HB3	1:HB:109:ILE:HD11	1.99	0.44
1:HB:57:HIS:CD2	1:HB:111:PRO:HA	2.52	0.44
1:IB:185:ARG:HG3	1:IB:204:TYR:HE1	1.81	0.44
1:JB:21:GLN:NE2	1:JB:39:ASP:HB2	2.31	0.44
1:JB:286:ASP:OD1	1:JB:297:GLY:N	2.47	0.44
1:JB:774:ARG:HA	1:JB:777:LEU:HD13	1.99	0.44
1:KB:174:LEU:HD11	1:KB:212:VAL:HG13	2.00	0.44
1:KB:664:ILE:HG13	1:KB:665:THR:N	2.32	0.44
1:LB:286:ASP:OD1	1:LB:297:GLY:N	2.47	0.44
1:MB:682:GLN:NE2	1:MB:682:GLN:O	2.50	0.44
1:MB:774:ARG:HA	1:MB:777:LEU:HD13	1.99	0.44
1:MB:790:VAL:HG11	1:NB:784:ALA:CB	2.38	0.44
1:NB:21:GLN:NE2	1:NB:39:ASP:HB2	2.31	0.44
1:NB:174:LEU:HD11	1:NB:212:VAL:HG13	1.99	0.44
1:OB:739:GLY:CA	1:PB:734:ARG:HH22	2.22	0.44
1:OB:799:THR:HA	1:OB:802:LEU:HD12	1.99	0.44
1:PB:596:ALA:HA	1:PB:599:ILE:HG22	1.99	0.44
1:PB:664:ILE:HG13	1:PB:665:THR:N	2.32	0.44
1:PB:737:GLY:O	1:PB:741:VAL:HG23	2.17	0.44
1:PB:805:GLY:HA2	1:PB:808:ARG:NE	2.32	0.44
1:QB:549:LEU:HD21	1:QB:561:LEU:HD21	1.99	0.44
1:QB:737:GLY:O	1:QB:741:VAL:HG23	2.17	0.44
1:RB:61:VAL:H	1:RB:88:GLN:HE22	1.65	0.44
1:RB:549:LEU:HD21	1:RB:561:LEU:HD21	1.99	0.44
1:RB:799:THR:HA	1:RB:802:LEU:HD12	1.99	0.44
1:SB:391:GLN:HB2	1:SB:415:TRP:HB2	2.00	0.44
1:UB:702:ALA:HB3	1:VB:693:ILE:CG2	2.30	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:VB:57:HIS:CD2	1:VB:111:PRO:HA	2.52	0.44
1:VB:506:LYS:HD3	1:VB:506:LYS:HA	1.81	0.44
1:VB:694:LEU:O	1:VB:697:SER:HB2	2.16	0.44
1:VB:706:LEU:HD13	1:WB:700:GLU:HG3	1.99	0.44
1:WB:324:TYR:CE2	1:WB:373:VAL:HG21	2.52	0.44
1:WB:549:LEU:HD21	1:WB:561:LEU:HD21	1.99	0.44
1:XB:37:ARG:HE	1:XB:42:ARG:HA	1.82	0.44
1:YB:8:ILE:HG23	1:YB:37:ARG:HD3	1.98	0.44
1:YB:587:THR:HG1	1:YB:588:PHE:H	1.64	0.44
1:ZB:174:LEU:HD11	1:ZB:212:VAL:HG13	1.99	0.44
1:ZB:324:TYR:CE2	1:ZB:373:VAL:HG21	2.52	0.44
1:ZB:737:GLY:O	1:ZB:741:VAL:HG23	2.17	0.44
1:ZB:795:PHE:HA	1:ZB:798:MET:HB3	1.99	0.44
1:AC:185:ARG:HG3	1:AC:204:TYR:HE1	1.81	0.44
1:AC:400:ALA:HB2	1:AC:491:PRO:HD3	1.99	0.44
1:AC:651:ARG:C	1:AC:653:ALA:H	2.17	0.44
1:A:775:ALA:HA	1:C:770:LEU:CD1	2.33	0.44
1:B:385:ASN:ND2	1:D:476:LYS:HE2	2.31	0.44
1:B:391:GLN:HB2	1:B:415:TRP:HB2	2.00	0.44
1:B:805:GLY:HA2	1:B:808:ARG:NE	2.32	0.44
1:C:651:ARG:C	1:C:653:ALA:H	2.17	0.44
1:D:8:ILE:HD11	1:D:35:TYR:CD2	2.51	0.44
1:D:592:HIS:CD2	1:F:584:ALA:HA	2.52	0.44
1:D:682:GLN:O	1:D:682:GLN:NE2	2.50	0.44
1:E:682:GLN:NE2	1:E:682:GLN:O	2.50	0.44
1:F:400:ALA:HB2	1:F:491:PRO:HD3	2.00	0.44
1:F:591:PHE:CD1	1:F:598:ILE:HD11	2.42	0.44
1:H:57:HIS:CD2	1:H:111:PRO:HA	2.52	0.44
1:H:236:LYS:HB2	1:H:236:LYS:HE3	1.77	0.44
1:H:591:PHE:CD1	1:H:598:ILE:HD11	2.42	0.44
1:J:8:ILE:HG23	1:J:37:ARG:HD3	1.98	0.44
1:J:596:ALA:HA	1:J:599:ILE:HG22	1.99	0.44
1:J:660:LEU:O	1:J:664:ILE:HG23	2.18	0.44
1:J:682:GLN:NE2	1:J:682:GLN:O	2.50	0.44
1:K:737:GLY:O	1:K:741:VAL:HG23	2.17	0.44
1:L:324:TYR:CE2	1:L:373:VAL:HG21	2.52	0.44
1:L:549:LEU:HD21	1:L:561:LEU:HD21	1.99	0.44
1:L:731:GLU:OE1	1:L:734:ARG:HG3	2.18	0.44
1:L:805:GLY:HA2	1:L:808:ARG:NE	2.32	0.44
1:N:174:LEU:HD11	1:N:212:VAL:HG13	1.99	0.44
1:N:682:GLN:NE2	1:N:682:GLN:O	2.50	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:O:8:ILE:HD11	1:O:35:TYR:CD2	2.51	0.44
1:O:57:HIS:CD2	1:O:111:PRO:HA	2.52	0.44
1:O:805:GLY:HA2	1:O:808:ARG:NE	2.32	0.44
1:P:596:ALA:HA	1:P:599:ILE:HG22	1.99	0.44
1:P:814:GLY:HA2	1:P:815:PRO:HD3	1.89	0.44
1:Q:594:ASN:HB3	1:Q:597:ARG:HD3	1.99	0.44
1:R:664:ILE:HG13	1:R:665:THR:N	2.32	0.44
1:S:391:GLN:HB2	1:S:415:TRP:HB2	2.00	0.44
1:T:795:PHE:HA	1:T:798:MET:HB3	1.99	0.44
1:V:324:TYR:CE2	1:V:373:VAL:HG21	2.52	0.44
1:V:664:ILE:HG13	1:V:665:THR:N	2.32	0.44
1:W:795:PHE:HA	1:W:798:MET:HB3	2.00	0.44
1:X:21:GLN:NE2	1:X:39:ASP:HB2	2.31	0.44
1:X:37:ARG:HE	1:X:42:ARG:HA	1.82	0.44
1:X:664:ILE:HG13	1:X:665:THR:N	2.32	0.44
1:X:774:ARG:HA	1:X:777:LEU:HD13	1.99	0.44
1:Y:737:GLY:O	1:Y:741:VAL:HG23	2.17	0.44
1:Y:774:ARG:HA	1:Y:777:LEU:HD13	1.99	0.44
1:Z:549:LEU:HD21	1:Z:561:LEU:HD21	1.99	0.44
1:Z:664:ILE:HG13	1:Z:665:THR:N	2.33	0.44
1:Z:694:LEU:O	1:Z:697:SER:HB2	2.17	0.44
1:AA:587:THR:HG1	1:AA:588:PHE:H	1.65	0.44
1:AA:594:ASN:HB3	1:AA:597:ARG:HD3	1.99	0.44
1:BA:61:VAL:H	1:BA:88:GLN:HE22	1.65	0.44
1:BA:664:ILE:HG13	1:BA:665:THR:N	2.32	0.44
1:BA:774:ARG:HA	1:BA:777:LEU:HD13	1.99	0.44
1:FA:387:GLY:HA3	1:FA:402:ILE:HG22	1.99	0.44
1:FA:549:LEU:HD21	1:FA:561:LEU:HD21	1.99	0.44
1:GA:549:LEU:HD21	1:GA:561:LEU:HD21	1.99	0.44
1:GA:799:THR:HA	1:GA:802:LEU:HD12	1.99	0.44
1:HA:506:LYS:HD3	1:HA:506:LYS:HA	1.81	0.44
1:HA:664:ILE:HG13	1:HA:665:THR:N	2.32	0.44
1:HA:750:ALA:HA	1:JA:744:ALA:HB2	1.98	0.44
1:HA:799:THR:HA	1:HA:802:LEU:HD12	1.99	0.44
1:IA:391:GLN:HB2	1:IA:415:TRP:HB2	2.00	0.44
1:IA:406:TYR:HH	1:IA:412:GLU:CD	2.21	0.44
1:IA:720:GLY:CA	1:KA:711:ALA:HB1	2.48	0.44
1:JA:664:ILE:HG13	1:JA:665:THR:N	2.32	0.44
1:JA:805:GLY:HA2	1:JA:808:ARG:NE	2.32	0.44
1:KA:185:ARG:HG3	1:KA:204:TYR:HE1	1.81	0.44
1:KA:521:ASP:OD1	1:KA:522:PHE:N	2.44	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:LA:204:TYR:OH	1:LA:210:GLU:OE2	2.30	0.44
1:LA:549:LEU:HD21	1:LA:561:LEU:HD21	1.99	0.44
1:LA:805:GLY:HA2	1:LA:808:ARG:NE	2.32	0.44
1:MA:502:ALA:HB3	1:MA:510:ALA:HB3	1.98	0.44
1:MA:596:ALA:HA	1:MA:599:ILE:HG22	1.99	0.44
1:OA:651:ARG:C	1:OA:653:ALA:H	2.17	0.44
1:OA:774:ARG:HA	1:OA:777:LEU:HD13	1.99	0.44
1:QA:8:ILE:HG23	1:QA:37:ARG:HD3	1.98	0.44
1:QA:651:ARG:C	1:QA:653:ALA:H	2.17	0.44
1:QA:731:GLU:OE1	1:QA:734:ARG:HG3	2.18	0.44
1:RA:506:LYS:HD3	1:RA:506:LYS:HA	1.81	0.44
1:RA:774:ARG:HA	1:RA:777:LEU:HD13	1.99	0.44
1:SA:596:ALA:HA	1:SA:599:ILE:HG22	1.99	0.44
1:TA:502:ALA:HB3	1:TA:510:ALA:HB3	1.98	0.44
1:TA:694:LEU:O	1:TA:697:SER:HB2	2.17	0.44
1:UA:799:THR:HA	1:UA:802:LEU:HD12	1.99	0.44
1:VA:737:GLY:O	1:VA:741:VAL:HG23	2.17	0.44
1:WA:174:LEU:HD11	1:WA:212:VAL:HG13	1.99	0.44
1:XA:61:VAL:H	1:XA:88:GLN:HE22	1.66	0.44
1:XA:391:GLN:HB2	1:XA:415:TRP:HB2	2.00	0.44
1:XA:694:LEU:O	1:XA:697:SER:HB2	2.16	0.44
1:YA:8:ILE:HG23	1:YA:37:ARG:HD3	1.98	0.44
1:YA:236:LYS:HE3	1:YA:236:LYS:HB2	1.77	0.44
1:YA:664:ILE:HG13	1:YA:665:THR:N	2.32	0.44
1:YA:795:PHE:HA	1:YA:798:MET:HB3	1.99	0.44
1:ZA:61:VAL:H	1:ZA:88:GLN:HE22	1.65	0.44
1:ZA:65:VAL:HG12	1:ZA:83:LEU:HD23	1.98	0.44
1:AB:682:GLN:NE2	1:AB:682:GLN:O	2.50	0.44
1:AB:707:LEU:HD23	1:AB:707:LEU:HA	1.74	0.44
1:BB:65:VAL:HG12	1:BB:83:LEU:HD23	1.98	0.44
1:BB:324:TYR:CE2	1:BB:373:VAL:HG21	2.52	0.44
1:BB:703:ARG:HA	1:BB:706:LEU:HB2	1.98	0.44
1:BB:774:ARG:HA	1:BB:777:LEU:HD13	1.99	0.44
1:BB:795:PHE:HA	1:BB:798:MET:HB3	1.99	0.44
1:BB:799:THR:HA	1:BB:802:LEU:HD12	1.99	0.44
1:CB:37:ARG:HE	1:CB:42:ARG:HA	1.82	0.44
1:CB:65:VAL:HG12	1:CB:83:LEU:HD23	1.98	0.44
1:CB:286:ASP:OD1	1:CB:297:GLY:N	2.47	0.44
1:CB:521:ASP:OD1	1:CB:522:PHE:N	2.44	0.44
1:CB:682:GLN:NE2	1:CB:682:GLN:O	2.50	0.44
1:CB:706:LEU:CD2	1:DB:693:ILE:HG23	2.47	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:DB:521:ASP:OD1	1:DB:522:PHE:N	2.44	0.44
1:DB:596:ALA:HA	1:DB:599:ILE:HG22	1.99	0.44
1:FB:65:VAL:HG12	1:FB:83:LEU:HD23	1.98	0.44
1:FB:229:LEU:HD13	1:FB:265:GLU:HB3	1.97	0.44
1:FB:362:PRO:HB2	1:GB:352:GLN:HG3	1.99	0.44
1:FB:400:ALA:HB2	1:FB:491:PRO:HD3	1.99	0.44
1:FB:731:GLU:OE1	1:FB:734:ARG:HG3	2.18	0.44
1:FB:774:ARG:HA	1:FB:777:LEU:HD13	1.99	0.44
1:GB:596:ALA:HA	1:GB:599:ILE:HG22	1.99	0.44
1:GB:664:ILE:HG13	1:GB:665:THR:N	2.33	0.44
1:HB:682:GLN:NE2	1:HB:682:GLN:O	2.50	0.44
1:IB:324:TYR:CE2	1:IB:373:VAL:HG21	2.52	0.44
1:IB:664:ILE:HG13	1:IB:665:THR:N	2.32	0.44
1:IB:731:GLU:OE1	1:IB:734:ARG:HG3	2.18	0.44
1:JB:37:ARG:HE	1:JB:42:ARG:HA	1.82	0.44
1:JB:57:HIS:HB3	1:JB:109:ILE:HD11	1.99	0.44
1:JB:664:ILE:HG13	1:JB:665:THR:N	2.32	0.44
1:KB:391:GLN:HB2	1:KB:415:TRP:HB2	2.00	0.44
1:KB:774:ARG:HA	1:KB:777:LEU:HD13	1.99	0.44
1:LB:28:VAL:HG21	1:LB:98:PRO:HB2	1.99	0.44
1:LB:461:ARG:NH1	1:MB:494:GLN:CG	2.79	0.44
1:LB:549:LEU:HD21	1:LB:561:LEU:HD21	1.99	0.44
1:LB:594:ASN:HB3	1:LB:597:ARG:HD3	1.99	0.44
1:MB:742:LEU:CB	1:NB:734:ARG:HE	2.28	0.44
1:NB:592:HIS:HA	1:NB:595:SER:OG	2.16	0.44
1:OB:222:THR:CG2	1:PB:230:ARG:NE	2.64	0.44
1:QB:37:ARG:HE	1:QB:42:ARG:HA	1.82	0.44
1:SB:664:ILE:HG13	1:SB:665:THR:N	2.33	0.44
1:TB:37:ARG:HE	1:TB:42:ARG:HA	1.82	0.44
1:TB:400:ALA:HB2	1:TB:491:PRO:HD3	2.00	0.44
1:TB:502:ALA:HB3	1:TB:510:ALA:HB3	1.98	0.44
1:TB:587:THR:HG1	1:TB:588:PHE:H	1.64	0.44
1:TB:594:ASN:HB3	1:TB:597:ARG:HD3	1.99	0.44
1:TB:694:LEU:O	1:TB:697:SER:HB2	2.17	0.44
1:TB:795:PHE:HA	1:TB:798:MET:HB3	1.99	0.44
1:TB:799:THR:HA	1:TB:802:LEU:HD12	1.99	0.44
1:UB:28:VAL:HG21	1:UB:98:PRO:HB2	1.99	0.44
1:UB:61:VAL:H	1:UB:88:GLN:HE22	1.65	0.44
1:WB:21:GLN:NE2	1:WB:39:ASP:HB2	2.31	0.44
1:WB:694:LEU:O	1:WB:697:SER:HB2	2.17	0.44
1:XB:799:THR:HA	1:XB:802:LEU:HD12	1.99	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:YB:57:HIS:CD2	1:YB:111:PRO:HA	2.52	0.44
1:YB:174:LEU:HD11	1:YB:212:VAL:HG13	1.99	0.44
1:YB:324:TYR:CE2	1:YB:373:VAL:HG21	2.52	0.44
1:YB:391:GLN:HB2	1:YB:415:TRP:HB2	2.00	0.44
1:YB:594:ASN:HB3	1:YB:597:ARG:HD3	1.99	0.44
1:YB:694:LEU:O	1:YB:697:SER:HB2	2.17	0.44
1:YB:731:GLU:OE1	1:YB:734:ARG:HG3	2.18	0.44
1:ZB:61:VAL:H	1:ZB:88:GLN:HE22	1.65	0.44
1:ZB:506:LYS:HD3	1:ZB:506:LYS:HA	1.81	0.44
1:ZB:694:LEU:O	1:ZB:697:SER:HB2	2.17	0.44
1:AC:682:GLN:NE2	1:AC:682:GLN:O	2.50	0.44
1:AC:703:ARG:HA	1:AC:706:LEU:HB2	1.98	0.44
1:A:387:GLY:HA3	1:A:402:ILE:HG22	1.99	0.44
1:A:664:ILE:HG13	1:A:665:THR:N	2.32	0.44
1:A:717:GLU:CG	1:C:707:LEU:HD22	2.48	0.44
1:A:734:ARG:NH2	1:NB:743:GLN:CG	2.69	0.44
1:B:8:ILE:HG23	1:B:37:ARG:HD3	1.98	0.44
1:B:502:ALA:HB3	1:B:510:ALA:HB3	1.98	0.44
1:B:693:ILE:HG22	1:AC:706:LEU:HD21	1.91	0.44
1:B:731:GLU:OE1	1:B:734:ARG:HG3	2.18	0.44
1:B:737:GLY:O	1:B:741:VAL:HG23	2.17	0.44
1:B:742:LEU:HB3	1:D:734:ARG:NH2	2.32	0.44
1:C:37:ARG:HE	1:C:42:ARG:HA	1.82	0.44
1:C:236:LYS:HE3	1:C:236:LYS:HB2	1.77	0.44
1:D:57:HIS:CD2	1:D:111:PRO:HA	2.52	0.44
1:D:364:GLU:CD	1:F:339:PRO:HG3	2.38	0.44
1:D:594:ASN:HB3	1:D:597:ARG:HD3	1.99	0.44
1:D:724:ALA:HA	1:F:715:ALA:CB	2.46	0.44
1:D:731:GLU:OE1	1:D:734:ARG:HG3	2.18	0.44
1:E:57:HIS:CD2	1:E:111:PRO:HA	2.52	0.44
1:F:664:ILE:HG13	1:F:665:THR:N	2.33	0.44
1:F:753:ILE:HG13	1:F:756:GLU:CB	2.43	0.44
1:G:61:VAL:H	1:G:88:GLN:HE22	1.66	0.44
1:G:324:TYR:CE2	1:G:373:VAL:HG21	2.52	0.44
1:H:737:GLY:O	1:H:741:VAL:HG23	2.17	0.44
1:I:387:GLY:HA3	1:I:402:ILE:HG22	1.99	0.44
1:I:651:ARG:C	1:I:653:ALA:H	2.17	0.44
1:I:737:GLY:O	1:I:741:VAL:HG23	2.17	0.44
1:J:775:ALA:HB1	1:L:770:LEU:HD12	2.00	0.44
1:J:795:PHE:HA	1:J:798:MET:HB3	1.99	0.44
1:L:774:ARG:HA	1:L:777:LEU:HD13	1.99	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:65:VAL:HG12	1:N:83:LEU:HD23	1.98	0.44
1:N:660:LEU:O	1:N:664:ILE:HG23	2.18	0.44
1:N:664:ILE:HG13	1:N:665:THR:N	2.32	0.44
1:O:490:ASP:N	1:O:493:GLU:OE1	2.42	0.44
1:O:774:ARG:HA	1:O:777:LEU:HD13	1.99	0.44
1:P:8:ILE:HG23	1:P:37:ARG:HD3	1.98	0.44
1:P:28:VAL:HG21	1:P:98:PRO:HB2	1.99	0.44
1:P:174:LEU:HD11	1:P:212:VAL:HG13	1.99	0.44
1:Q:324:TYR:CE2	1:Q:373:VAL:HG21	2.52	0.44
1:Q:664:ILE:HG13	1:Q:665:THR:N	2.32	0.44
1:Q:774:ARG:HA	1:Q:777:LEU:HD13	1.99	0.44
1:R:28:VAL:HG21	1:R:98:PRO:HB2	1.99	0.44
1:R:400:ALA:HB2	1:R:491:PRO:HD3	2.00	0.44
1:R:682:GLN:NE2	1:R:682:GLN:O	2.50	0.44
1:S:400:ALA:HB2	1:S:491:PRO:HD3	2.00	0.44
1:S:694:LEU:O	1:S:697:SER:HB2	2.16	0.44
1:T:8:ILE:HG23	1:T:37:ARG:HD3	1.98	0.44
1:T:694:LEU:O	1:T:697:SER:HB2	2.16	0.44
1:V:666:THR:HG21	1:X:657:SER:HB2	2.00	0.44
1:V:737:GLY:O	1:V:741:VAL:HG23	2.17	0.44
1:X:57:HIS:HB3	1:X:109:ILE:HD11	1.99	0.44
1:X:57:HIS:CD2	1:X:111:PRO:HA	2.52	0.44
1:Z:707:LEU:HD23	1:Z:707:LEU:HA	1.74	0.44
1:AA:21:GLN:NE2	1:AA:39:ASP:HB2	2.31	0.44
1:AA:65:VAL:HG12	1:AA:83:LEU:HD23	1.98	0.44
1:CA:594:ASN:HB3	1:CA:597:ARG:HD3	1.99	0.44
1:DA:174:LEU:HD11	1:DA:212:VAL:HG13	1.99	0.44
1:DA:664:ILE:HG13	1:DA:665:THR:N	2.33	0.44
1:DA:731:GLU:OE1	1:DA:734:ARG:HG3	2.18	0.44
1:EA:694:LEU:O	1:EA:697:SER:HB2	2.17	0.44
1:FA:57:HIS:HB3	1:FA:109:ILE:HD11	1.99	0.44
1:GA:229:LEU:HD13	1:GA:265:GLU:HB3	1.98	0.44
1:GA:324:TYR:CE2	1:GA:373:VAL:HG21	2.52	0.44
1:HA:174:LEU:HD11	1:HA:212:VAL:HG13	1.99	0.44
1:HA:591:PHE:CD1	1:HA:598:ILE:HD11	2.42	0.44
1:IA:666:THR:HG22	1:KA:657:SER:HB2	1.91	0.44
1:KA:37:ARG:HE	1:KA:42:ARG:HA	1.82	0.44
1:LA:174:LEU:HD11	1:LA:212:VAL:HG13	2.00	0.44
1:LA:324:TYR:CE2	1:LA:373:VAL:HG21	2.52	0.44
1:LA:591:PHE:CD1	1:LA:598:ILE:HD11	2.42	0.44
1:MA:594:ASN:HB3	1:MA:597:ARG:HD3	1.99	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:NA:737:GLY:O	1:NA:741:VAL:HG23	2.17	0.44
1:NA:774:ARG:HA	1:NA:777:LEU:HD13	1.99	0.44
1:OA:28:VAL:HG21	1:OA:98:PRO:HB2	1.99	0.44
1:OA:731:GLU:OE1	1:OA:734:ARG:HG3	2.18	0.44
1:OA:805:GLY:HA2	1:OA:808:ARG:NE	2.32	0.44
1:QA:682:GLN:NE2	1:QA:682:GLN:O	2.50	0.44
1:RA:57:HIS:HB3	1:RA:109:ILE:HD11	1.99	0.44
1:SA:61:VAL:H	1:SA:88:GLN:HE22	1.65	0.44
1:SA:805:GLY:HA2	1:SA:808:ARG:NE	2.31	0.44
1:TA:709:LEU:HA	1:TA:709:LEU:HD23	1.82	0.44
1:TA:731:GLU:OE1	1:TA:734:ARG:HG3	2.18	0.44
1:UA:65:VAL:HG12	1:UA:83:LEU:HD23	1.98	0.44
1:VA:61:VAL:H	1:VA:88:GLN:HE22	1.65	0.44
1:VA:324:TYR:CE2	1:VA:373:VAL:HG21	2.52	0.44
1:VA:387:GLY:HA3	1:VA:402:ILE:HG22	1.99	0.44
1:WA:21:GLN:NE2	1:WA:39:ASP:HB2	2.31	0.44
1:XA:174:LEU:HD11	1:XA:212:VAL:HG13	1.99	0.44
1:XA:594:ASN:HB3	1:XA:597:ARG:HD3	1.99	0.44
1:XA:731:GLU:OE1	1:XA:734:ARG:HG3	2.18	0.44
1:YA:774:ARG:HA	1:YA:777:LEU:HD13	1.99	0.44
1:ZA:174:LEU:HD11	1:ZA:212:VAL:HG13	1.99	0.44
1:ZA:387:GLY:HA3	1:ZA:402:ILE:HG22	1.99	0.44
1:AB:21:GLN:NE2	1:AB:39:ASP:HB2	2.31	0.44
1:AB:174:LEU:HD11	1:AB:212:VAL:HG13	1.99	0.44
1:AB:594:ASN:HB3	1:AB:597:ARG:HD3	1.99	0.44
1:AB:660:LEU:O	1:AB:664:ILE:HG23	2.18	0.44
1:BB:731:GLU:OE1	1:BB:734:ARG:HG3	2.18	0.44
1:CB:682:GLN:OE1	1:CB:685:ARG:NH2	2.41	0.44
1:DB:391:GLN:HB2	1:DB:415:TRP:HB2	2.00	0.44
1:DB:682:GLN:NE2	1:DB:682:GLN:O	2.50	0.44
1:EB:299:LYS:NZ	1:EB:317:GLU:OE2	2.32	0.44
1:EB:795:PHE:HA	1:EB:798:MET:HB3	2.00	0.44
1:FB:549:LEU:HD21	1:FB:561:LEU:HD21	1.99	0.44
1:FB:737:GLY:O	1:FB:741:VAL:HG23	2.17	0.44
1:GB:174:LEU:HD11	1:GB:212:VAL:HG13	1.99	0.44
1:GB:795:PHE:HA	1:GB:798:MET:HB3	1.99	0.44
1:GB:805:GLY:HA2	1:GB:808:ARG:NE	2.31	0.44
1:HB:174:LEU:HD11	1:HB:212:VAL:HG13	1.99	0.44
1:HB:391:GLN:HB2	1:HB:415:TRP:HB2	2.00	0.44
1:IB:61:VAL:H	1:IB:88:GLN:HE22	1.66	0.44
1:JB:61:VAL:H	1:JB:88:GLN:HE22	1.66	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:JB:737:GLY:O	1:JB:741:VAL:HG23	2.17	0.44
1:JB:795:PHE:HA	1:JB:798:MET:HB3	2.00	0.44
1:JB:799:THR:HA	1:JB:802:LEU:HD12	1.99	0.44
1:KB:387:GLY:HA3	1:KB:402:ILE:HG22	1.99	0.44
1:KB:400:ALA:HB2	1:KB:491:PRO:HD3	2.00	0.44
1:KB:660:LEU:O	1:KB:664:ILE:HG23	2.18	0.44
1:LB:660:LEU:O	1:LB:664:ILE:HG23	2.18	0.44
1:LB:743:GLN:CG	1:MB:734:ARG:HH21	2.30	0.44
1:MB:406:TYR:HH	1:MB:412:GLU:CD	2.20	0.44
1:NB:737:GLY:O	1:NB:741:VAL:HG23	2.17	0.44
1:NB:795:PHE:HA	1:NB:798:MET:HB3	1.99	0.44
1:OB:519:GLY:HA3	1:PB:563:SER:O	2.18	0.44
1:OB:660:LEU:O	1:OB:664:ILE:HG23	2.18	0.44
1:OB:664:ILE:HG13	1:OB:665:THR:N	2.32	0.44
1:OB:703:ARG:HA	1:OB:706:LEU:HB2	1.98	0.44
1:OB:707:LEU:HD23	1:OB:707:LEU:HA	1.74	0.44
1:PB:394:LYS:HE3	1:PB:394:LYS:HB2	1.87	0.44
1:QB:324:TYR:CE2	1:QB:373:VAL:HG21	2.52	0.44
1:RB:324:TYR:CE2	1:RB:373:VAL:HG21	2.52	0.44
1:RB:594:ASN:HB3	1:RB:597:ARG:HD3	1.99	0.44
1:RB:596:ALA:HA	1:RB:599:ILE:HG22	1.99	0.44
1:TB:185:ARG:HG3	1:TB:204:TYR:HE1	1.81	0.44
1:TB:521:ASP:OD1	1:TB:522:PHE:N	2.44	0.44
1:UB:21:GLN:NE2	1:UB:39:ASP:HB2	2.31	0.44
1:UB:391:GLN:HB2	1:UB:415:TRP:HB2	2.00	0.44
1:UB:664:ILE:HG13	1:UB:665:THR:N	2.32	0.44
1:WB:364:GLU:HB3	1:XB:353:ALA:HB1	2.00	0.44
1:XB:400:ALA:HB2	1:XB:491:PRO:HD3	2.00	0.44
1:ZB:596:ALA:HA	1:ZB:599:ILE:HG22	1.99	0.44
1:ZB:774:ARG:HA	1:ZB:777:LEU:HD13	1.99	0.44
1:AC:174:LEU:HD11	1:AC:212:VAL:HG13	1.99	0.44
1:AC:549:LEU:HD21	1:AC:561:LEU:HD21	1.99	0.44
1:AC:664:ILE:HG13	1:AC:665:THR:N	2.32	0.44
1:AC:737:GLY:O	1:AC:741:VAL:HG23	2.17	0.44
1:A:506:LYS:HD3	1:A:506:LYS:HA	1.81	0.44
1:A:596:ALA:HA	1:A:599:ILE:HG22	1.99	0.44
1:A:731:GLU:OE1	1:A:734:ARG:HG3	2.18	0.44
1:A:737:GLY:O	1:A:741:VAL:HG23	2.17	0.44
1:A:777:LEU:HG	1:NB:783:LYS:HA	1.99	0.44
1:B:21:GLN:NE2	1:B:39:ASP:HB2	2.31	0.44
1:B:694:LEU:O	1:B:697:SER:HB2	2.16	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:28:VAL:HG21	1:C:98:PRO:HB2	1.99	0.44
1:C:400:ALA:HB2	1:C:491:PRO:HD3	2.00	0.44
1:D:324:TYR:CE2	1:D:373:VAL:HG21	2.52	0.44
1:D:592:HIS:C	1:F:584:ALA:HB1	2.34	0.44
1:D:681:GLU:HB2	1:F:675:HIS:HE1	1.81	0.44
1:D:707:LEU:HD23	1:D:707:LEU:HA	1.74	0.44
1:E:774:ARG:HA	1:E:777:LEU:HD13	1.99	0.44
1:F:703:ARG:HA	1:F:706:LEU:HB2	1.98	0.44
1:G:660:LEU:O	1:G:664:ILE:HG23	2.18	0.44
1:H:65:VAL:HG12	1:H:83:LEU:HD23	1.98	0.44
1:H:660:LEU:O	1:H:664:ILE:HG23	2.18	0.44
1:H:664:ILE:HG13	1:H:665:THR:N	2.32	0.44
1:J:37:ARG:HE	1:J:42:ARG:HA	1.82	0.44
1:J:664:ILE:HG13	1:J:665:THR:N	2.32	0.44
1:J:805:GLY:HA2	1:J:808:ARG:NE	2.31	0.44
1:K:37:ARG:HE	1:K:42:ARG:HA	1.82	0.44
1:K:795:PHE:HA	1:K:798:MET:HB3	2.00	0.44
1:L:660:LEU:O	1:L:664:ILE:HG23	2.18	0.44
1:M:682:GLN:NE2	1:M:682:GLN:O	2.50	0.44
1:N:391:GLN:HB2	1:N:415:TRP:HB2	2.00	0.44
1:O:185:ARG:HG3	1:O:204:TYR:HE1	1.81	0.44
1:O:596:ALA:HA	1:O:599:ILE:HG22	1.99	0.44
1:O:652:ASP:OD1	1:O:652:ASP:N	2.48	0.44
1:O:664:ILE:HG13	1:O:665:THR:N	2.32	0.44
1:P:660:LEU:O	1:P:664:ILE:HG23	2.18	0.44
1:P:737:GLY:O	1:P:741:VAL:HG23	2.17	0.44
1:P:795:PHE:HA	1:P:798:MET:HB3	1.99	0.44
1:Q:61:VAL:H	1:Q:88:GLN:HE22	1.65	0.44
1:Q:204:TYR:OH	1:Q:210:GLU:OE2	2.30	0.44
1:S:37:ARG:HE	1:S:42:ARG:HA	1.82	0.44
1:S:737:GLY:O	1:S:741:VAL:HG23	2.17	0.44
1:S:805:GLY:HA2	1:S:808:ARG:NE	2.31	0.44
1:T:174:LEU:HD11	1:T:212:VAL:HG13	1.99	0.44
1:T:391:GLN:HB2	1:T:415:TRP:HB2	2.00	0.44
1:T:799:THR:HA	1:T:802:LEU:HD12	1.99	0.44
1:W:61:VAL:H	1:W:88:GLN:HE22	1.66	0.44
1:W:391:GLN:HB2	1:W:415:TRP:HB2	2.00	0.44
1:W:596:ALA:HA	1:W:599:ILE:HG22	1.99	0.44
1:W:753:ILE:HG13	1:W:756:GLU:CB	2.43	0.44
1:X:795:PHE:HA	1:X:798:MET:HB3	1.99	0.44
1:Y:324:TYR:CE2	1:Y:373:VAL:HG21	2.52	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Y:651:ARG:C	1:Y:653:ALA:H	2.17	0.44
1:Y:799:THR:HA	1:Y:802:LEU:HD12	1.99	0.44
1:AA:682:GLN:NE2	1:AA:682:GLN:O	2.50	0.44
1:AA:731:GLU:OE1	1:AA:734:ARG:HG3	2.18	0.44
1:BA:8:ILE:HG23	1:BA:37:ARG:HD3	1.98	0.44
1:BA:37:ARG:HE	1:BA:42:ARG:HA	1.82	0.44
1:BA:521:ASP:OD1	1:BA:522:PHE:N	2.44	0.44
1:CA:387:GLY:HA3	1:CA:402:ILE:HG22	1.99	0.44
1:CA:521:ASP:OD1	1:CA:522:PHE:N	2.44	0.44
1:DA:549:LEU:HD21	1:DA:561:LEU:HD21	1.99	0.44
1:FA:594:ASN:HB3	1:FA:597:ARG:HD3	1.99	0.44
1:FA:774:ARG:HA	1:FA:777:LEU:HD13	1.99	0.44
1:GA:682:GLN:O	1:GA:682:GLN:NE2	2.50	0.44
1:GA:774:ARG:HA	1:GA:777:LEU:HD13	1.99	0.44
1:IA:682:GLN:NE2	1:IA:682:GLN:O	2.50	0.44
1:JA:596:ALA:HA	1:JA:599:ILE:HG22	1.99	0.44
1:JA:703:ARG:HA	1:JA:706:LEU:HB2	1.98	0.44
1:KA:8:ILE:HG23	1:KA:37:ARG:HD3	1.98	0.44
1:KA:28:VAL:HG21	1:KA:98:PRO:HB2	1.99	0.44
1:KA:324:TYR:CE2	1:KA:373:VAL:HG21	2.52	0.44
1:KA:596:ALA:HA	1:KA:599:ILE:HG22	1.99	0.44
1:LA:65:VAL:HG12	1:LA:83:LEU:HD23	1.98	0.44
1:LA:795:PHE:HA	1:LA:798:MET:HB3	1.99	0.44
1:MA:65:VAL:HG12	1:MA:83:LEU:HD23	1.98	0.44
1:MA:324:TYR:CE2	1:MA:373:VAL:HG21	2.52	0.44
1:NA:324:TYR:CE2	1:NA:373:VAL:HG21	2.52	0.44
1:OA:324:TYR:CE2	1:OA:373:VAL:HG21	2.52	0.44
1:PA:533:ASP:CG	1:PA:587:THR:HG1	2.15	0.44
1:QA:8:ILE:HD11	1:QA:35:TYR:CD2	2.51	0.44
1:QA:57:HIS:CD2	1:QA:111:PRO:HA	2.52	0.44
1:QA:400:ALA:HB2	1:QA:491:PRO:HD3	2.00	0.44
1:QA:651:ARG:HG2	1:SA:536:ARG:HH22	1.83	0.44
1:QA:664:ILE:HG13	1:QA:665:THR:N	2.32	0.44
1:QA:799:THR:HA	1:QA:802:LEU:HD12	1.99	0.44
1:RA:664:ILE:HG13	1:RA:665:THR:N	2.33	0.44
1:SA:795:PHE:HA	1:SA:798:MET:HB3	1.99	0.44
1:UA:174:LEU:HD11	1:UA:212:VAL:HG13	1.99	0.44
1:UA:731:GLU:OE1	1:UA:734:ARG:HG3	2.18	0.44
1:VA:8:ILE:HG23	1:VA:37:ARG:HD3	1.98	0.44
1:VA:694:LEU:O	1:VA:697:SER:HB2	2.17	0.44
1:YA:660:LEU:O	1:YA:664:ILE:HG23	2.18	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:YA:682:GLN:O	1:YA:682:GLN:NE2	2.50	0.44
1:ZA:400:ALA:HB2	1:ZA:491:PRO:HD3	2.00	0.44
1:ZA:549:LEU:HD21	1:ZA:561:LEU:HD21	1.99	0.44
1:AB:185:ARG:HG3	1:AB:204:TYR:HE1	1.81	0.44
1:AB:328:GLU:HG2	1:OB:394:LYS:HG3	2.00	0.44
1:BB:61:VAL:H	1:BB:88:GLN:HE22	1.66	0.44
1:CB:594:ASN:HB3	1:CB:597:ARG:HD3	1.99	0.44
1:DB:37:ARG:HE	1:DB:42:ARG:HA	1.82	0.44
1:EB:703:ARG:HA	1:EB:706:LEU:HB2	1.98	0.44
1:FB:664:ILE:HG13	1:FB:665:THR:N	2.32	0.44
1:GB:391:GLN:HB2	1:GB:415:TRP:HB2	2.00	0.44
1:HB:795:PHE:HA	1:HB:798:MET:HB3	1.99	0.44
1:KB:21:GLN:NE2	1:KB:39:ASP:HB2	2.31	0.44
1:KB:805:GLY:HA2	1:KB:808:ARG:NE	2.31	0.44
1:LB:520:PRO:HD2	1:MB:563:SER:C	2.37	0.44
1:MB:174:LEU:HD11	1:MB:212:VAL:HG13	1.99	0.44
1:OB:61:VAL:H	1:OB:88:GLN:HE22	1.66	0.44
1:OB:400:ALA:HB2	1:OB:491:PRO:HD3	2.00	0.44
1:OB:596:ALA:CB	1:PB:581:GLY:CA	2.89	0.44
1:QB:57:HIS:CD2	1:QB:111:PRO:HA	2.52	0.44
1:RB:664:ILE:HG13	1:RB:665:THR:N	2.32	0.44
1:RB:673:ALA:CB	1:SB:664:ILE:HB	2.47	0.44
1:SB:57:HIS:HB3	1:SB:109:ILE:HD11	1.99	0.44
1:SB:737:GLY:O	1:SB:741:VAL:HG23	2.17	0.44
1:SB:774:ARG:HA	1:SB:777:LEU:HD13	1.99	0.44
1:TB:324:TYR:CE2	1:TB:373:VAL:HG21	2.52	0.44
1:VB:61:VAL:H	1:VB:88:GLN:HE22	1.65	0.44
1:VB:795:PHE:HA	1:VB:798:MET:HB3	1.99	0.44
1:WB:37:ARG:HE	1:WB:42:ARG:HA	1.82	0.44
1:XB:502:ALA:HB3	1:XB:510:ALA:HB3	1.98	0.44
1:YB:774:ARG:HA	1:YB:777:LEU:HD13	1.99	0.44
1:ZB:664:ILE:HG13	1:ZB:665:THR:N	2.32	0.44
1:AC:37:ARG:HE	1:AC:42:ARG:HA	1.82	0.44
1:AC:61:VAL:H	1:AC:88:GLN:HE22	1.66	0.44
1:AC:587:THR:HG1	1:AC:588:PHE:H	1.66	0.44
1:A:324:TYR:CE2	1:A:373:VAL:HG21	2.52	0.44
1:A:522:PHE:CB	1:C:573:LYS:HE2	2.47	0.44
1:B:72:SER:O	1:B:74:LEU:HD12	2.18	0.44
1:B:534:HIS:ND1	1:AC:657:SER:OG	2.51	0.44
1:B:589:ASP:CB	1:AC:665:THR:HG23	2.44	0.44
1:B:718:SER:OG	1:AC:728:SER:CB	2.66	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:795:PHE:HA	1:B:798:MET:HB3	2.00	0.44
1:C:61:VAL:H	1:C:88:GLN:HE22	1.65	0.44
1:D:118:ASN:OD1	1:F:181:GLU:HB3	2.10	0.44
1:D:325:VAL:CG2	1:F:353:ALA:HB1	2.44	0.44
1:E:596:ALA:HA	1:E:599:ILE:HG22	1.99	0.44
1:F:774:ARG:HA	1:F:777:LEU:HD13	1.99	0.44
1:G:794:LYS:CD	1:I:791:GLU:OE2	2.66	0.44
1:H:8:ILE:HG23	1:H:37:ARG:HD3	1.98	0.44
1:I:57:HIS:CD2	1:I:111:PRO:HA	2.52	0.44
1:J:391:GLN:HB2	1:J:415:TRP:HB2	2.00	0.44
1:J:594:ASN:HB3	1:J:597:ARG:HD3	1.99	0.44
1:K:660:LEU:O	1:K:664:ILE:HG23	2.18	0.44
1:K:731:GLU:OE1	1:K:734:ARG:HG3	2.18	0.44
1:L:737:GLY:O	1:L:741:VAL:HG23	2.17	0.44
1:L:799:THR:HA	1:L:802:LEU:HD12	1.99	0.44
1:M:654:LEU:HD23	1:M:654:LEU:HA	1.84	0.44
1:N:286:ASP:OD1	1:N:297:GLY:N	2.47	0.44
1:N:795:PHE:HA	1:N:798:MET:HB3	1.99	0.44
1:P:707:LEU:HD23	1:P:707:LEU:HA	1.74	0.44
1:Q:795:PHE:HA	1:Q:798:MET:HB3	1.99	0.44
1:R:703:ARG:HA	1:R:706:LEU:HB2	1.98	0.44
1:V:596:ALA:HA	1:V:599:ILE:HG22	1.99	0.44
1:W:490:ASP:N	1:W:493:GLU:OE1	2.42	0.44
1:W:594:ASN:HB3	1:W:597:ARG:HD3	1.99	0.44
1:W:737:GLY:O	1:W:741:VAL:HG23	2.17	0.44
1:Y:28:VAL:HG21	1:Y:98:PRO:HB2	1.99	0.44
1:Y:703:ARG:HA	1:Y:706:LEU:HB2	1.98	0.44
1:Z:21:GLN:NE2	1:Z:39:ASP:HB2	2.31	0.44
1:Z:391:GLN:HB2	1:Z:415:TRP:HB2	2.00	0.44
1:AA:387:GLY:HA3	1:AA:402:ILE:HG22	1.99	0.44
1:CA:694:LEU:O	1:CA:697:SER:HB2	2.17	0.44
1:CA:709:LEU:HA	1:CA:709:LEU:HD23	1.82	0.44
1:CA:774:ARG:HA	1:CA:777:LEU:HD13	1.99	0.44
1:EA:57:HIS:HB3	1:EA:109:ILE:HD11	1.99	0.44
1:EA:731:GLU:OE1	1:EA:734:ARG:HG3	2.18	0.44
1:EA:795:PHE:HA	1:EA:798:MET:HB3	1.99	0.44
1:FA:21:GLN:NE2	1:FA:39:ASP:HB2	2.31	0.44
1:GA:61:VAL:H	1:GA:88:GLN:HE22	1.66	0.44
1:HA:731:GLU:OE1	1:HA:734:ARG:HG3	2.18	0.44
1:IA:587:THR:HG1	1:IA:588:PHE:H	1.66	0.44
1:IA:596:ALA:HA	1:IA:599:ILE:HG22	1.99	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:IA:720:GLY:HA3	1:KA:711:ALA:CB	2.47	0.44
1:JA:594:ASN:HB3	1:JA:597:ARG:HD3	1.99	0.44
1:JA:774:ARG:HA	1:JA:777:LEU:HD13	1.99	0.44
1:KA:72:SER:O	1:KA:74:LEU:HD12	2.18	0.44
1:KA:799:THR:HA	1:KA:802:LEU:HD12	1.99	0.44
1:LA:774:ARG:HA	1:LA:777:LEU:HD13	1.99	0.44
1:MA:587:THR:HG1	1:MA:588:PHE:H	1.65	0.44
1:MA:799:THR:HA	1:MA:802:LEU:HD12	1.99	0.44
1:NA:8:ILE:HG23	1:NA:37:ARG:HD3	1.98	0.44
1:NA:37:ARG:HE	1:NA:42:ARG:HA	1.82	0.44
1:NA:72:SER:O	1:NA:74:LEU:HD12	2.18	0.44
1:NA:400:ALA:HB2	1:NA:491:PRO:HD3	2.00	0.44
1:NA:502:ALA:HB3	1:NA:510:ALA:HB3	1.98	0.44
1:NA:731:GLU:OE1	1:NA:734:ARG:HG3	2.18	0.44
1:OA:21:GLN:NE2	1:OA:39:ASP:HB2	2.31	0.44
1:OA:400:ALA:HB2	1:OA:491:PRO:HD3	2.00	0.44
1:PA:731:GLU:OE1	1:PA:734:ARG:HG3	2.18	0.44
1:SA:28:VAL:HG21	1:SA:98:PRO:HB2	1.99	0.44
1:TA:703:ARG:HA	1:TA:706:LEU:HB2	1.98	0.44
1:XA:204:TYR:OH	1:XA:210:GLU:OE2	2.30	0.44
1:ZA:72:SER:O	1:ZA:74:LEU:HD12	2.18	0.44
1:ZA:664:ILE:HG13	1:ZA:665:THR:N	2.32	0.44
1:AB:61:VAL:H	1:AB:88:GLN:HE22	1.65	0.44
1:AB:204:TYR:OH	1:AB:210:GLU:OE2	2.30	0.44
1:AB:731:GLU:OE1	1:AB:734:ARG:HG3	2.18	0.44
1:BB:720:GLY:HA3	1:CB:711:ALA:CB	2.48	0.44
1:EB:8:ILE:HG23	1:EB:37:ARG:HD3	1.98	0.44
1:EB:391:GLN:HB2	1:EB:415:TRP:HB2	2.00	0.44
1:EB:521:ASP:OD1	1:EB:522:PHE:N	2.44	0.44
1:EB:596:ALA:HA	1:EB:599:ILE:HG22	1.99	0.44
1:EB:664:ILE:HG13	1:EB:665:THR:N	2.32	0.44
1:EB:737:GLY:O	1:EB:741:VAL:HG23	2.17	0.44
1:FB:37:ARG:HE	1:FB:42:ARG:HA	1.82	0.44
1:GB:814:GLY:HA2	1:GB:815:PRO:HD3	1.89	0.44
1:HB:394:LYS:HE3	1:HB:394:LYS:HB2	1.87	0.44
1:HB:805:GLY:HA2	1:HB:808:ARG:NE	2.31	0.44
1:JB:174:LEU:HD11	1:JB:212:VAL:HG13	1.99	0.44
1:LB:387:GLY:HA3	1:LB:402:ILE:HG22	1.99	0.44
1:LB:502:ALA:HB3	1:LB:510:ALA:HB3	1.98	0.44
1:LB:664:ILE:HG13	1:LB:665:THR:N	2.32	0.44
1:LB:737:GLY:O	1:LB:741:VAL:HG23	2.17	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:MB:324:TYR:CE2	1:MB:373:VAL:HG21	2.52	0.44
1:MB:660:LEU:O	1:MB:664:ILE:HG23	2.18	0.44
1:MB:664:ILE:HG13	1:MB:665:THR:N	2.32	0.44
1:MB:799:THR:HA	1:MB:802:LEU:HD12	1.99	0.44
1:NB:400:ALA:HB2	1:NB:491:PRO:HD3	1.99	0.44
1:NB:549:LEU:HD21	1:NB:561:LEU:HD21	1.99	0.44
1:PB:703:ARG:HA	1:PB:706:LEU:HB2	1.98	0.44
1:RB:28:VAL:HG21	1:RB:98:PRO:HB2	1.98	0.44
1:RB:737:GLY:O	1:RB:741:VAL:HG23	2.17	0.44
1:TB:666:THR:HB	1:UB:660:LEU:HD12	1.92	0.44
1:UB:37:ARG:HE	1:UB:42:ARG:HA	1.82	0.44
1:UB:694:LEU:O	1:UB:697:SER:HB2	2.17	0.44
1:UB:799:THR:HA	1:UB:802:LEU:HD12	1.99	0.44
1:VB:521:ASP:OD1	1:VB:522:PHE:N	2.44	0.44
1:YB:37:ARG:HE	1:YB:42:ARG:HA	1.82	0.44
1:YB:596:ALA:HA	1:YB:599:ILE:HG22	1.99	0.44
1:YB:707:LEU:HD23	1:YB:707:LEU:HA	1.74	0.44
1:ZB:391:GLN:HB2	1:ZB:415:TRP:HB2	2.00	0.44
1:ZB:549:LEU:HD21	1:ZB:561:LEU:HD21	1.99	0.44
1:ZB:735:ILE:CG2	1:AC:726:ALA:O	2.65	0.44
1:AC:65:VAL:HG12	1:AC:83:LEU:HD23	1.98	0.44
1:A:28:VAL:HG21	1:A:98:PRO:HB2	1.99	0.44
1:A:710:GLU:HG3	1:C:700:GLU:CD	2.38	0.44
1:A:774:ARG:HA	1:A:777:LEU:HD13	1.99	0.44
1:B:774:ARG:HA	1:B:777:LEU:HD13	1.99	0.44
1:C:174:LEU:HD11	1:C:212:VAL:HG13	1.99	0.44
1:C:406:TYR:HH	1:C:412:GLU:CD	2.21	0.44
1:C:795:PHE:HA	1:C:798:MET:HB3	1.99	0.44
1:D:660:LEU:O	1:D:664:ILE:HG23	2.18	0.44
1:E:61:VAL:H	1:E:88:GLN:HE22	1.66	0.44
1:E:174:LEU:HD11	1:E:212:VAL:HG13	1.99	0.44
1:F:65:VAL:HG12	1:F:83:LEU:HD23	1.98	0.44
1:F:599:ILE:O	1:F:603:VAL:HG23	2.18	0.44
1:F:660:LEU:O	1:F:664:ILE:HG23	2.18	0.44
1:G:549:LEU:HD21	1:G:561:LEU:HD21	1.99	0.44
1:G:599:ILE:O	1:G:603:VAL:HG23	2.18	0.44
1:H:521:ASP:OD1	1:H:522:PHE:N	2.44	0.44
1:I:660:LEU:O	1:I:664:ILE:HG23	2.18	0.44
1:J:61:VAL:H	1:J:88:GLN:HE22	1.65	0.44
1:K:400:ALA:HB2	1:K:491:PRO:HD3	2.00	0.44
1:M:502:ALA:HB3	1:M:510:ALA:HB3	1.98	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:72:SER:O	1:N:74:LEU:HD12	2.18	0.44
1:N:774:ARG:HA	1:N:777:LEU:HD13	1.99	0.44
1:R:8:ILE:HG23	1:R:37:ARG:HD3	1.98	0.44
1:R:236:LYS:HE3	1:R:236:LYS:HB2	1.77	0.44
1:R:596:ALA:HA	1:R:599:ILE:HG22	1.99	0.44
1:R:737:GLY:O	1:R:741:VAL:HG23	2.17	0.44
1:R:774:ARG:HA	1:R:777:LEU:HD13	1.99	0.44
1:S:174:LEU:HD11	1:S:212:VAL:HG13	1.99	0.44
1:T:61:VAL:H	1:T:88:GLN:HE22	1.65	0.44
1:T:387:GLY:HA3	1:T:402:ILE:HG22	1.99	0.44
1:T:596:ALA:HA	1:T:599:ILE:HG22	1.99	0.44
1:T:774:ARG:HA	1:T:777:LEU:HD13	1.99	0.44
1:V:285:LEU:N	1:V:315:ARG:O	2.41	0.44
1:V:387:GLY:HA3	1:V:402:ILE:HG22	1.99	0.44
1:V:549:LEU:HD21	1:V:561:LEU:HD21	1.99	0.44
1:W:72:SER:O	1:W:74:LEU:HD12	2.18	0.44
1:W:324:TYR:CE2	1:W:373:VAL:HG21	2.52	0.44
1:X:61:VAL:H	1:X:88:GLN:HE22	1.65	0.44
1:X:694:LEU:O	1:X:697:SER:HB2	2.17	0.44
1:Y:694:LEU:O	1:Y:697:SER:HB2	2.16	0.44
1:Y:742:LEU:HD12	1:Y:742:LEU:HA	1.86	0.44
1:Y:795:PHE:HA	1:Y:798:MET:HB3	1.99	0.44
1:Z:324:TYR:CE2	1:Z:373:VAL:HG21	2.52	0.44
1:AA:57:HIS:HB3	1:AA:109:ILE:HD11	1.99	0.44
1:AA:324:TYR:CE2	1:AA:373:VAL:HG21	2.52	0.44
1:AA:502:ALA:HB3	1:AA:510:ALA:HB3	1.98	0.44
1:AA:664:ILE:HG13	1:AA:665:THR:N	2.32	0.44
1:AA:694:LEU:O	1:AA:697:SER:HB2	2.16	0.44
1:CA:174:LEU:HD11	1:CA:212:VAL:HG13	1.99	0.44
1:DA:91:ARG:NH1	1:DA:94:GLN:OE1	2.38	0.44
1:DA:387:GLY:HA3	1:DA:402:ILE:HG22	1.99	0.44
1:DA:737:GLY:O	1:DA:741:VAL:HG23	2.17	0.44
1:DA:753:ILE:HG13	1:DA:756:GLU:CB	2.43	0.44
1:EA:8:ILE:HG23	1:EA:37:ARG:HD3	1.98	0.44
1:EA:72:SER:O	1:EA:74:LEU:HD12	2.18	0.44
1:EA:596:ALA:HA	1:EA:599:ILE:HG22	1.99	0.44
1:EA:703:ARG:HA	1:EA:706:LEU:HB2	1.98	0.44
1:EA:737:GLY:O	1:EA:741:VAL:HG23	2.17	0.44
1:EA:774:ARG:HA	1:EA:777:LEU:HD13	1.99	0.44
1:FA:587:THR:HG1	1:FA:588:PHE:H	1.64	0.44
1:FA:682:GLN:O	1:FA:682:GLN:NE2	2.50	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:HA:72:SER:O	1:HA:74:LEU:HD12	2.18	0.44
1:HA:391:GLN:HB2	1:HA:415:TRP:HB2	2.00	0.44
1:IA:799:THR:HA	1:IA:802:LEU:HD12	1.99	0.44
1:JA:537:LEU:HA	1:JA:645:PRO:HA	2.00	0.44
1:MA:660:LEU:O	1:MA:664:ILE:HG23	2.18	0.44
1:NA:174:LEU:HD11	1:NA:212:VAL:HG13	1.99	0.44
1:OA:72:SER:O	1:OA:74:LEU:HD12	2.18	0.44
1:OA:218:ALA:HA	1:OA:260:VAL:HA	2.00	0.44
1:OA:391:GLN:HB2	1:OA:415:TRP:HB2	2.00	0.44
1:OA:549:LEU:HD21	1:OA:561:LEU:HD21	1.99	0.44
1:PA:57:HIS:HB3	1:PA:109:ILE:HD11	1.99	0.44
1:PA:57:HIS:CD2	1:PA:111:PRO:HA	2.52	0.44
1:QA:594:ASN:HB3	1:QA:597:ARG:HD3	1.99	0.44
1:RA:218:ALA:HA	1:RA:260:VAL:HA	2.00	0.44
1:RA:795:PHE:HA	1:RA:798:MET:HB3	1.99	0.44
1:SA:286:ASP:OD1	1:SA:297:GLY:N	2.47	0.44
1:SA:502:ALA:HB3	1:SA:510:ALA:HB3	1.98	0.44
1:UA:72:SER:O	1:UA:74:LEU:HD12	2.18	0.44
1:VA:57:HIS:HB3	1:VA:109:ILE:HD11	1.99	0.44
1:VA:218:ALA:HA	1:VA:260:VAL:HA	2.00	0.44
1:WA:737:GLY:O	1:WA:741:VAL:HG23	2.17	0.44
1:XA:795:PHE:HA	1:XA:798:MET:HB3	2.00	0.44
1:YA:506:LYS:HD3	1:YA:506:LYS:HA	1.81	0.44
1:YA:799:THR:HA	1:YA:802:LEU:HD12	1.99	0.44
1:AB:400:ALA:HB2	1:AB:491:PRO:HD3	2.00	0.44
1:BB:286:ASP:OD1	1:BB:297:GLY:N	2.47	0.44
1:BB:682:GLN:O	1:BB:682:GLN:NE2	2.50	0.44
1:CB:599:ILE:O	1:CB:603:VAL:HG23	2.18	0.44
1:CB:799:THR:HA	1:CB:802:LEU:HD12	1.99	0.44
1:DB:599:ILE:O	1:DB:603:VAL:HG23	2.18	0.44
1:DB:805:GLY:HA2	1:DB:808:ARG:NE	2.32	0.44
1:FB:382:LEU:H	1:GB:396:GLY:HA3	1.83	0.44
1:FB:717:GLU:HG3	1:GB:707:LEU:HB3	1.98	0.44
1:FB:795:PHE:HA	1:FB:798:MET:HB3	2.00	0.44
1:GB:37:ARG:HE	1:GB:42:ARG:HA	1.82	0.44
1:GB:72:SER:O	1:GB:74:LEU:HD12	2.18	0.44
1:GB:599:ILE:O	1:GB:603:VAL:HG23	2.18	0.44
1:HB:660:LEU:O	1:HB:664:ILE:HG23	2.18	0.44
1:JB:72:SER:O	1:JB:74:LEU:HD12	2.18	0.44
1:JB:594:ASN:HB3	1:JB:597:ARG:HD3	1.99	0.44
1:KB:72:SER:O	1:KB:74:LEU:HD12	2.18	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:KB:324:TYR:CE2	1:KB:373:VAL:HG21	2.52	0.44
1:KB:549:LEU:HD21	1:KB:561:LEU:HD21	1.99	0.44
1:KB:731:GLU:OE1	1:KB:734:ARG:HG3	2.18	0.44
1:LB:61:VAL:H	1:LB:88:GLN:HE22	1.66	0.44
1:MB:782:SER:OG	1:NB:777:LEU:CD1	2.65	0.44
1:NB:65:VAL:HG12	1:NB:83:LEU:HD23	1.98	0.44
1:NB:391:GLN:HB2	1:NB:415:TRP:HB2	2.00	0.44
1:OB:72:SER:O	1:OB:74:LEU:HD12	2.18	0.44
1:OB:203:ALA:CB	1:PB:192:THR:CB	2.95	0.44
1:OB:273:ILE:HD13	1:PB:296:LEU:HD22	2.00	0.44
1:OB:639:ASP:OD2	1:PB:574:ALA:HA	2.18	0.44
1:PB:57:HIS:HB3	1:PB:109:ILE:HD11	1.99	0.44
1:PB:387:GLY:HA3	1:PB:402:ILE:HG22	1.99	0.44
1:PB:549:LEU:HD21	1:PB:561:LEU:HD21	1.99	0.44
1:PB:660:LEU:O	1:PB:664:ILE:HG23	2.18	0.44
1:QB:57:HIS:HB3	1:QB:109:ILE:HD11	1.99	0.44
1:QB:174:LEU:HD11	1:QB:212:VAL:HG13	1.99	0.44
1:QB:594:ASN:HB3	1:QB:597:ARG:HD3	1.99	0.44
1:SB:795:PHE:HA	1:SB:798:MET:HB3	1.99	0.44
1:TB:57:HIS:HB3	1:TB:109:ILE:HD11	1.99	0.44
1:TB:61:VAL:H	1:TB:88:GLN:HE22	1.65	0.44
1:TB:387:GLY:HA3	1:TB:402:ILE:HG22	1.99	0.44
1:UB:65:VAL:HG12	1:UB:83:LEU:HD23	1.98	0.44
1:UB:713:SER:OG	1:VB:707:LEU:HD11	2.17	0.44
1:VB:286:ASP:OD1	1:VB:297:GLY:N	2.47	0.44
1:VB:654:LEU:HD23	1:VB:654:LEU:HA	1.84	0.44
1:VB:660:LEU:O	1:VB:664:ILE:HG23	2.18	0.44
1:VB:774:ARG:HA	1:VB:777:LEU:HD13	1.99	0.44
1:WB:387:GLY:HA3	1:WB:402:ILE:HG22	1.99	0.44
1:WB:707:LEU:HD23	1:WB:707:LEU:HA	1.74	0.44
1:XB:21:GLN:NE2	1:XB:39:ASP:HB2	2.31	0.44
1:YB:72:SER:O	1:YB:74:LEU:HD12	2.18	0.44
1:YB:737:GLY:O	1:YB:741:VAL:HG23	2.17	0.44
1:A:61:VAL:H	1:A:88:GLN:HE22	1.66	0.44
1:A:218:ALA:HA	1:A:260:VAL:HA	2.00	0.44
1:A:391:GLN:HB2	1:A:415:TRP:HB2	2.00	0.44
1:A:734:ARG:NH2	1:NB:739:GLY:O	2.50	0.44
1:A:757:ALA:H	1:C:748:ALA:HB1	1.83	0.44
1:A:801:ALA:HB1	1:C:796:LYS:CB	2.45	0.44
1:B:324:TYR:CE2	1:B:373:VAL:HG21	2.52	0.44
1:B:596:ALA:HA	1:B:599:ILE:HG22	1.99	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:596:ALA:HA	1:C:599:ILE:HG22	1.99	0.44
1:C:724:ALA:HB2	1:E:715:ALA:HA	1.91	0.44
1:D:37:ARG:HE	1:D:42:ARG:HA	1.82	0.44
1:D:279:ARG:CZ	1:F:369:ALA:O	2.66	0.44
1:D:665:THR:OG1	1:F:589:ASP:HB2	2.18	0.44
1:E:660:LEU:O	1:E:664:ILE:HG23	2.18	0.44
1:E:664:ILE:HG13	1:E:665:THR:N	2.32	0.44
1:G:72:SER:O	1:G:74:LEU:HD12	2.18	0.44
1:G:286:ASP:OD1	1:G:297:GLY:N	2.47	0.44
1:H:596:ALA:HA	1:H:599:ILE:HG22	1.99	0.44
1:I:218:ALA:HA	1:I:260:VAL:HA	2.00	0.44
1:I:394:LYS:HE3	1:I:394:LYS:HB2	1.87	0.44
1:I:799:THR:HA	1:I:802:LEU:HD12	1.99	0.44
1:K:218:ALA:HA	1:K:260:VAL:HA	2.00	0.44
1:K:391:GLN:HB2	1:K:415:TRP:HB2	2.00	0.44
1:K:594:ASN:HB3	1:K:597:ARG:HD3	1.99	0.44
1:L:387:GLY:HA3	1:L:402:ILE:HG22	1.99	0.44
1:L:391:GLN:HB2	1:L:415:TRP:HB2	2.00	0.44
1:M:549:LEU:HD21	1:M:561:LEU:HD21	1.99	0.44
1:M:660:LEU:O	1:M:664:ILE:HG23	2.18	0.44
1:O:37:ARG:HE	1:O:42:ARG:HA	1.82	0.44
1:O:594:ASN:HB3	1:O:597:ARG:HD3	1.99	0.44
1:P:587:THR:HG1	1:P:588:PHE:H	1.65	0.44
1:Q:490:ASP:N	1:Q:493:GLU:OE1	2.42	0.44
1:Q:660:LEU:O	1:Q:664:ILE:HG23	2.18	0.44
1:R:129:PHE:CG	1:R:156:GLU:HG3	2.53	0.44
1:R:660:LEU:O	1:R:664:ILE:HG23	2.18	0.44
1:S:521:ASP:OD1	1:S:522:PHE:N	2.44	0.44
1:S:654:LEU:HD23	1:S:654:LEU:HA	1.84	0.44
1:T:57:HIS:HB3	1:T:109:ILE:HD11	1.99	0.44
1:T:324:TYR:CE2	1:T:373:VAL:HG21	2.52	0.44
1:T:549:LEU:HD21	1:T:561:LEU:HD21	1.99	0.44
1:T:814:GLY:HA2	1:T:815:PRO:HD3	1.89	0.44
1:V:37:ARG:HE	1:V:42:ARG:HA	1.82	0.44
1:V:218:ALA:HA	1:V:260:VAL:HA	2.00	0.44
1:V:391:GLN:HB2	1:V:415:TRP:HB2	2.00	0.44
1:V:731:GLU:OE1	1:V:734:ARG:HG3	2.18	0.44
1:V:795:PHE:HA	1:V:798:MET:HB3	2.00	0.44
1:W:664:ILE:HG13	1:W:665:THR:N	2.32	0.44
1:W:694:LEU:O	1:W:697:SER:HB2	2.17	0.44
1:X:8:ILE:HD11	1:X:35:TYR:CD2	2.51	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:X:174:LEU:HD11	1:X:212:VAL:HG13	1.99	0.44
1:Z:731:GLU:OE1	1:Z:734:ARG:HG3	2.18	0.44
1:AA:129:PHE:CG	1:AA:156:GLU:HG3	2.53	0.44
1:BA:57:HIS:HB3	1:BA:109:ILE:HD11	1.99	0.44
1:BA:72:SER:O	1:BA:74:LEU:HD12	2.18	0.44
1:CA:795:PHE:HA	1:CA:798:MET:HB3	1.99	0.44
1:DA:537:LEU:HA	1:DA:645:PRO:HA	2.00	0.44
1:DA:799:THR:HA	1:DA:802:LEU:HD12	1.99	0.44
1:EA:391:GLN:HB2	1:EA:415:TRP:HB2	2.00	0.44
1:GA:596:ALA:HA	1:GA:599:ILE:HG22	1.99	0.44
1:GA:814:GLY:HA2	1:GA:815:PRO:HD3	1.89	0.44
1:HA:129:PHE:CG	1:HA:156:GLU:HG3	2.53	0.44
1:HA:640:VAL:HG13	1:JA:580:ARG:NH2	2.33	0.44
1:HA:691:GLN:OE1	1:JA:679:ARG:NE	2.51	0.44
1:IA:218:ALA:HA	1:IA:260:VAL:HA	2.00	0.44
1:IA:594:ASN:HB3	1:IA:597:ARG:HD3	1.99	0.44
1:IA:728:SER:HB3	1:KA:718:SER:CB	2.48	0.44
1:JA:599:ILE:O	1:JA:603:VAL:HG23	2.18	0.44
1:KA:174:LEU:HD11	1:KA:212:VAL:HG13	1.99	0.44
1:KA:391:GLN:HB2	1:KA:415:TRP:HB2	2.00	0.44
1:KA:707:LEU:HD23	1:KA:707:LEU:HA	1.74	0.44
1:NA:129:PHE:CG	1:NA:156:GLU:HG3	2.53	0.44
1:NA:599:ILE:O	1:NA:603:VAL:HG23	2.18	0.44
1:OA:57:HIS:HB3	1:OA:109:ILE:HD11	1.99	0.44
1:PA:129:PHE:CG	1:PA:156:GLU:HG3	2.53	0.44
1:QA:805:GLY:HA2	1:QA:808:ARG:NE	2.31	0.44
1:RA:400:ALA:HB2	1:RA:491:PRO:HD3	2.00	0.44
1:RA:549:LEU:HD21	1:RA:561:LEU:HD21	1.99	0.44
1:SA:537:LEU:HA	1:SA:645:PRO:HA	2.00	0.44
1:TA:218:ALA:HA	1:TA:260:VAL:HA	2.00	0.44
1:TA:324:TYR:CE2	1:TA:373:VAL:HG21	2.52	0.44
1:TA:795:PHE:HA	1:TA:798:MET:HB3	1.99	0.44
1:UA:129:PHE:CG	1:UA:156:GLU:HG3	2.53	0.44
1:VA:599:ILE:O	1:VA:603:VAL:HG23	2.18	0.44
1:WA:324:TYR:CE2	1:WA:373:VAL:HG21	2.52	0.44
1:XA:599:ILE:O	1:XA:603:VAL:HG23	2.18	0.44
1:XA:753:ILE:HG13	1:XA:756:GLU:CB	2.43	0.44
1:YA:651:ARG:C	1:YA:653:ALA:H	2.17	0.44
1:ZA:57:HIS:CD2	1:ZA:111:PRO:HA	2.52	0.44
1:AB:795:PHE:HA	1:AB:798:MET:HB3	2.00	0.44
1:BB:387:GLY:HA3	1:BB:402:ILE:HG22	1.99	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:BB:521:ASP:OD1	1:BB:522:PHE:N	2.44	0.44
1:BB:537:LEU:HA	1:BB:645:PRO:HA	2.00	0.44
1:CB:129:PHE:CG	1:CB:156:GLU:HG3	2.53	0.44
1:DB:400:ALA:HB2	1:DB:491:PRO:HD3	2.00	0.44
1:EB:28:VAL:HG21	1:EB:98:PRO:HB2	1.99	0.44
1:EB:129:PHE:CG	1:EB:156:GLU:HG3	2.53	0.44
1:FB:279:ARG:HD3	1:GB:337:LEU:CB	2.47	0.44
1:FB:537:LEU:HA	1:FB:645:PRO:HA	2.00	0.44
1:GB:549:LEU:HD21	1:GB:561:LEU:HD21	1.99	0.44
1:GB:774:ARG:HA	1:GB:777:LEU:HD13	1.99	0.44
1:IB:660:LEU:O	1:IB:664:ILE:HG23	2.18	0.44
1:IB:795:PHE:HA	1:IB:798:MET:HB3	2.00	0.44
1:JB:218:ALA:HA	1:JB:260:VAL:HA	2.00	0.44
1:JB:660:LEU:O	1:JB:664:ILE:HG23	2.18	0.44
1:JB:731:GLU:OE1	1:JB:734:ARG:HG3	2.18	0.44
1:KB:218:ALA:HA	1:KB:260:VAL:HA	2.00	0.44
1:KB:594:ASN:HB3	1:KB:597:ARG:HD3	1.99	0.44
1:MB:731:GLU:OE1	1:MB:734:ARG:HG3	2.18	0.44
1:MB:779:LEU:HD22	1:NB:773:ALA:CB	2.47	0.44
1:NB:324:TYR:CE2	1:NB:373:VAL:HG21	2.52	0.44
1:OB:257:GLU:HB2	1:PB:245:THR:N	2.32	0.44
1:OB:257:GLU:OE2	1:PB:244:ARG:HB3	2.16	0.44
1:OB:257:GLU:CA	1:PB:245:THR:OG1	2.66	0.44
1:OB:325:VAL:CG2	1:PB:337:LEU:HD22	2.46	0.44
1:OB:391:GLN:HB2	1:OB:415:TRP:HB2	2.00	0.44
1:PB:37:ARG:HE	1:PB:42:ARG:HA	1.82	0.44
1:PB:400:ALA:HB2	1:PB:491:PRO:HD3	2.00	0.44
1:PB:599:ILE:O	1:PB:603:VAL:HG23	2.18	0.44
1:QB:799:THR:HA	1:QB:802:LEU:HD12	1.99	0.44
1:RB:218:ALA:HA	1:RB:260:VAL:HA	2.00	0.44
1:RB:731:GLU:OE1	1:RB:734:ARG:HG3	2.18	0.44
1:SB:28:VAL:HG21	1:SB:98:PRO:HB2	1.99	0.44
1:SB:324:TYR:CE2	1:SB:373:VAL:HG21	2.52	0.44
1:SB:599:ILE:O	1:SB:603:VAL:HG23	2.18	0.44
1:TB:174:LEU:HD11	1:TB:212:VAL:HG13	1.99	0.44
1:TB:731:GLU:OE1	1:TB:734:ARG:HG3	2.18	0.44
1:UB:691:GLN:OE1	1:VB:682:GLN:CG	2.66	0.44
1:UB:735:ILE:HG22	1:VB:730:ALA:CA	2.41	0.44
1:UB:774:ARG:HA	1:UB:777:LEU:HD13	1.99	0.44
1:VB:72:SER:O	1:VB:74:LEU:HD12	2.18	0.44
1:VB:400:ALA:HB2	1:VB:491:PRO:HD3	1.99	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:VB:664:ILE:HG13	1:VB:665:THR:N	2.32	0.44
1:WB:174:LEU:HD11	1:WB:212:VAL:HG13	1.99	0.44
1:WB:805:GLY:HA2	1:WB:808:ARG:NE	2.32	0.44
1:XB:737:GLY:O	1:XB:741:VAL:HG23	2.17	0.44
1:YB:599:ILE:O	1:YB:603:VAL:HG23	2.18	0.44
1:AC:21:GLN:NE2	1:AC:39:ASP:HB2	2.31	0.44
1:AC:587:THR:HG1	1:AC:588:PHE:N	2.15	0.44
1:A:720:GLY:HA3	1:C:711:ALA:CA	2.45	0.44
1:B:387:GLY:HA3	1:B:402:ILE:HG22	1.99	0.44
1:B:549:LEU:HD21	1:B:561:LEU:HD21	1.99	0.44
1:C:391:GLN:HB2	1:C:415:TRP:HB2	2.00	0.44
1:C:660:LEU:O	1:C:664:ILE:HG23	2.18	0.44
1:D:129:PHE:CG	1:D:156:GLU:HG3	2.53	0.44
1:D:149:GLY:C	1:F:138:MET:CG	2.84	0.44
1:E:65:VAL:HG12	1:E:83:LEU:HD23	1.98	0.44
1:E:391:GLN:HB2	1:E:415:TRP:HB2	2.00	0.44
1:E:400:ALA:HB2	1:E:491:PRO:HD3	2.00	0.44
1:E:754:GLU:CG	1:G:744:ALA:HB1	2.42	0.44
1:F:174:LEU:HD11	1:F:212:VAL:HG13	1.99	0.44
1:G:28:VAL:HG21	1:G:98:PRO:HB2	1.98	0.44
1:H:129:PHE:CG	1:H:156:GLU:HG3	2.53	0.44
1:H:805:GLY:HA2	1:H:808:ARG:NE	2.31	0.44
1:I:591:PHE:CD1	1:I:598:ILE:HD11	2.42	0.44
1:J:799:THR:HA	1:J:802:LEU:HD12	1.99	0.44
1:J:814:GLY:HA2	1:J:815:PRO:HD3	1.89	0.44
1:K:587:THR:HG1	1:K:588:PHE:H	1.65	0.44
1:L:72:SER:O	1:L:74:LEU:HD12	2.18	0.44
1:L:218:ALA:HA	1:L:260:VAL:HA	2.00	0.44
1:M:28:VAL:HG21	1:M:98:PRO:HB2	1.99	0.44
1:M:61:VAL:H	1:M:88:GLN:HE22	1.65	0.44
1:M:324:TYR:CE2	1:M:373:VAL:HG21	2.52	0.44
1:M:400:ALA:HB2	1:M:491:PRO:HD3	1.99	0.44
1:M:805:GLY:HA2	1:M:808:ARG:NE	2.31	0.44
1:N:37:ARG:HE	1:N:42:ARG:HA	1.82	0.44
1:N:387:GLY:HA3	1:N:402:ILE:HG22	1.99	0.44
1:O:72:SER:O	1:O:74:LEU:HD12	2.18	0.44
1:O:129:PHE:CG	1:O:156:GLU:HG3	2.53	0.44
1:P:72:SER:O	1:P:74:LEU:HD12	2.18	0.44
1:P:506:LYS:HD3	1:P:506:LYS:HA	1.81	0.44
1:P:805:GLY:HA2	1:P:808:ARG:NE	2.32	0.44
1:Q:72:SER:O	1:Q:74:LEU:HD12	2.18	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:R:218:ALA:HA	1:R:260:VAL:HA	2.00	0.44
1:S:129:PHE:CG	1:S:156:GLU:HG3	2.53	0.44
1:S:549:LEU:HD21	1:S:561:LEU:HD21	1.99	0.44
1:S:660:LEU:O	1:S:664:ILE:HG23	2.18	0.44
1:S:795:PHE:HA	1:S:798:MET:HB3	1.99	0.44
1:T:218:ALA:HA	1:T:260:VAL:HA	2.00	0.44
1:V:72:SER:O	1:V:74:LEU:HD12	2.18	0.44
1:V:660:LEU:O	1:V:664:ILE:HG23	2.18	0.44
1:V:694:LEU:O	1:V:697:SER:HB2	2.17	0.44
1:W:28:VAL:HG21	1:W:98:PRO:HB2	1.99	0.44
1:W:129:PHE:CG	1:W:156:GLU:HG3	2.53	0.44
1:W:387:GLY:HA3	1:W:402:ILE:HG22	1.99	0.44
1:W:731:GLU:OE1	1:W:734:ARG:HG3	2.18	0.44
1:X:391:GLN:HB2	1:X:415:TRP:HB2	2.00	0.44
1:X:400:ALA:HB2	1:X:491:PRO:HD3	2.00	0.44
1:X:599:ILE:O	1:X:603:VAL:HG23	2.18	0.44
1:Y:537:LEU:HA	1:Y:645:PRO:HA	2.00	0.44
1:Z:218:ALA:HA	1:Z:260:VAL:HA	2.00	0.44
1:BA:391:GLN:HB2	1:BA:415:TRP:HB2	2.00	0.44
1:BA:799:THR:HA	1:BA:802:LEU:HD12	1.99	0.44
1:CA:218:ALA:HA	1:CA:260:VAL:HA	2.00	0.44
1:CA:400:ALA:HB2	1:CA:491:PRO:HD3	2.00	0.44
1:CA:731:GLU:OE1	1:CA:734:ARG:HG3	2.18	0.44
1:DA:57:HIS:HB3	1:DA:109:ILE:HD11	1.99	0.44
1:DA:61:VAL:H	1:DA:88:GLN:HE22	1.65	0.44
1:DA:324:TYR:CE2	1:DA:373:VAL:HG21	2.52	0.44
1:DA:795:PHE:HA	1:DA:798:MET:HB3	2.00	0.44
1:EA:28:VAL:HG21	1:EA:98:PRO:HB2	1.99	0.44
1:EA:129:PHE:CG	1:EA:156:GLU:HG3	2.53	0.44
1:FA:599:ILE:O	1:FA:603:VAL:HG23	2.18	0.44
1:FA:651:ARG:C	1:FA:653:ALA:H	2.17	0.44
1:FA:795:PHE:HA	1:FA:798:MET:HB3	1.99	0.44
1:HA:324:TYR:CE2	1:HA:373:VAL:HG21	2.52	0.44
1:IA:549:LEU:HD21	1:IA:561:LEU:HD21	1.99	0.44
1:IA:673:ALA:HB3	1:KA:664:ILE:CD1	2.44	0.44
1:IA:731:GLU:OE1	1:IA:734:ARG:HG3	2.18	0.44
1:IA:795:PHE:HA	1:IA:798:MET:HB3	2.00	0.44
1:KA:129:PHE:CG	1:KA:156:GLU:HG3	2.53	0.44
1:KA:660:LEU:O	1:KA:664:ILE:HG23	2.18	0.44
1:KA:703:ARG:HA	1:KA:706:LEU:HB2	1.98	0.44
1:KA:731:GLU:OE1	1:KA:734:ARG:HG3	2.18	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:KA:805:GLY:HA2	1:KA:808:ARG:NE	2.31	0.44
1:LA:664:ILE:HG13	1:LA:665:THR:N	2.32	0.44
1:LA:731:GLU:OE1	1:LA:734:ARG:HG3	2.18	0.44
1:MA:521:ASP:OD1	1:MA:522:PHE:N	2.44	0.44
1:PA:218:ALA:HA	1:PA:260:VAL:HA	2.00	0.44
1:PA:737:GLY:O	1:PA:741:VAL:HG23	2.17	0.44
1:QA:596:ALA:HA	1:QA:599:ILE:HG22	1.99	0.44
1:RA:731:GLU:OE1	1:RA:734:ARG:HG3	2.18	0.44
1:SA:682:GLN:NE2	1:SA:682:GLN:O	2.50	0.44
1:TA:490:ASP:N	1:TA:493:GLU:OE1	2.42	0.44
1:WA:286:ASP:OD1	1:WA:297:GLY:N	2.47	0.44
1:WA:599:ILE:O	1:WA:603:VAL:HG23	2.18	0.44
1:WA:731:GLU:OE1	1:WA:734:ARG:HG3	2.18	0.44
1:YA:37:ARG:HE	1:YA:42:ARG:HA	1.82	0.44
1:YA:61:VAL:H	1:YA:88:GLN:HE22	1.66	0.44
1:YA:391:GLN:HB2	1:YA:415:TRP:HB2	2.00	0.44
1:YA:591:PHE:CD1	1:YA:598:ILE:HD11	2.42	0.44
1:ZA:28:VAL:HG21	1:ZA:98:PRO:HB2	1.99	0.44
1:ZA:391:GLN:HB2	1:ZA:415:TRP:HB2	2.00	0.44
1:ZA:537:LEU:HA	1:ZA:645:PRO:HA	2.00	0.44
1:AB:218:ALA:HA	1:AB:260:VAL:HA	2.00	0.44
1:AB:599:ILE:O	1:AB:603:VAL:HG23	2.18	0.44
1:BB:400:ALA:HB2	1:BB:491:PRO:HD3	2.00	0.44
1:CB:57:HIS:HB3	1:CB:109:ILE:HD11	1.99	0.44
1:CB:324:TYR:CE2	1:CB:373:VAL:HG21	2.52	0.44
1:DB:660:LEU:O	1:DB:664:ILE:HG23	2.18	0.44
1:DB:737:GLY:O	1:DB:741:VAL:HG23	2.17	0.44
1:FB:405:THR:HB	1:GB:395:THR:O	2.17	0.44
1:FB:599:ILE:O	1:FB:603:VAL:HG23	2.18	0.44
1:GB:61:VAL:H	1:GB:88:GLN:HE22	1.65	0.44
1:GB:218:ALA:HA	1:GB:260:VAL:HA	2.00	0.44
1:IB:599:ILE:O	1:IB:603:VAL:HG23	2.18	0.44
1:JB:65:VAL:HG12	1:JB:83:LEU:HD23	1.98	0.44
1:JB:129:PHE:CG	1:JB:156:GLU:HG3	2.53	0.44
1:JB:549:LEU:HD21	1:JB:561:LEU:HD21	1.99	0.44
1:LB:244:ARG:HD3	1:LB:244:ARG:HA	1.85	0.44
1:LB:522:PHE:HB2	1:MB:573:LYS:HE2	1.91	0.44
1:LB:599:ILE:O	1:LB:603:VAL:HG23	2.18	0.44
1:LB:799:THR:HA	1:LB:802:LEU:HD12	1.99	0.44
1:NB:651:ARG:C	1:NB:653:ALA:H	2.17	0.44
1:OB:28:VAL:HG21	1:OB:98:PRO:HB2	1.99	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:OB:244:ARG:HD3	1:OB:244:ARG:HA	1.85	0.44
1:OB:324:TYR:CE2	1:OB:373:VAL:HG21	2.52	0.44
1:OB:549:LEU:HD21	1:OB:561:LEU:HD21	1.99	0.44
1:OB:599:ILE:O	1:OB:603:VAL:HG23	2.18	0.44
1:OB:731:GLU:OE1	1:OB:734:ARG:HG3	2.18	0.44
1:OB:774:ARG:HA	1:OB:777:LEU:HD13	1.99	0.44
1:OB:810:LEU:CB	1:PB:811:ALA:HB3	2.48	0.44
1:PB:707:LEU:HD23	1:PB:707:LEU:HA	1.74	0.44
1:PB:709:LEU:HA	1:PB:709:LEU:HD23	1.82	0.44
1:QB:65:VAL:HG12	1:QB:83:LEU:HD23	1.98	0.44
1:QB:596:ALA:HA	1:QB:599:ILE:HG22	1.99	0.44
1:SB:654:LEU:HD23	1:SB:654:LEU:HA	1.84	0.44
1:SB:728:SER:HA	1:TB:719:THR:CB	2.47	0.44
1:UB:129:PHE:CG	1:UB:156:GLU:HG3	2.53	0.44
1:UB:387:GLY:HA3	1:UB:402:ILE:HG22	1.99	0.44
1:VB:129:PHE:CG	1:VB:156:GLU:HG3	2.53	0.44
1:VB:218:ALA:HA	1:VB:260:VAL:HA	2.00	0.44
1:WB:731:GLU:OE1	1:WB:734:ARG:HG3	2.18	0.44
1:WB:737:GLY:O	1:WB:741:VAL:HG23	2.17	0.44
1:WB:742:LEU:HD12	1:WB:742:LEU:HA	1.86	0.44
1:YB:387:GLY:HA3	1:YB:402:ILE:HG22	1.99	0.44
1:ZB:731:GLU:CB	1:AC:722:ALA:CB	2.67	0.44
1:ZB:799:THR:HA	1:ZB:802:LEU:HD12	1.99	0.44
1:AC:537:LEU:HA	1:AC:645:PRO:HA	2.00	0.44
1:AC:694:LEU:O	1:AC:697:SER:HB2	2.16	0.44
1:A:400:ALA:HB2	1:A:491:PRO:HD3	2.00	0.43
1:A:688:LEU:HA	1:C:679:ARG:NH2	2.33	0.43
1:B:174:LEU:HD11	1:B:212:VAL:HG13	1.99	0.43
1:C:57:HIS:HB3	1:C:109:ILE:HD11	1.99	0.43
1:C:171:ASN:OD1	1:E:245:THR:HG21	2.18	0.43
1:D:537:LEU:HA	1:D:645:PRO:HA	2.00	0.43
1:D:591:PHE:CD1	1:D:598:ILE:HD11	2.42	0.43
1:E:387:GLY:HA3	1:E:402:ILE:HG22	1.99	0.43
1:G:814:GLY:HA2	1:G:815:PRO:HD3	1.89	0.43
1:H:218:ALA:HA	1:H:260:VAL:HA	2.00	0.43
1:I:129:PHE:CG	1:I:156:GLU:HG3	2.53	0.43
1:I:400:ALA:HB2	1:I:491:PRO:HD3	2.00	0.43
1:I:709:LEU:HA	1:I:709:LEU:HD23	1.82	0.43
1:J:129:PHE:CG	1:J:156:GLU:HG3	2.53	0.43
1:J:218:ALA:HA	1:J:260:VAL:HA	2.00	0.43
1:J:599:ILE:O	1:J:603:VAL:HG23	2.18	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:324:TYR:CE2	1:K:373:VAL:HG21	2.52	0.43
1:L:599:ILE:O	1:L:603:VAL:HG23	2.18	0.43
1:L:664:ILE:HG13	1:L:665:THR:N	2.32	0.43
1:N:594:ASN:HB3	1:N:597:ARG:HD3	1.99	0.43
1:O:174:LEU:HD11	1:O:212:VAL:HG13	1.99	0.43
1:O:537:LEU:HA	1:O:645:PRO:HA	2.00	0.43
1:O:599:ILE:O	1:O:603:VAL:HG23	2.18	0.43
1:O:660:LEU:O	1:O:664:ILE:HG23	2.18	0.43
1:Q:537:LEU:HA	1:Q:645:PRO:HA	2.00	0.43
1:Q:596:ALA:HA	1:Q:599:ILE:HG22	1.99	0.43
1:S:72:SER:O	1:S:74:LEU:HD12	2.18	0.43
1:S:218:ALA:HA	1:S:260:VAL:HA	2.00	0.43
1:S:324:TYR:CE2	1:S:373:VAL:HG21	2.52	0.43
1:S:596:ALA:HA	1:S:599:ILE:HG22	1.99	0.43
1:T:129:PHE:CG	1:T:156:GLU:HG3	2.53	0.43
1:T:664:ILE:HG13	1:T:665:THR:N	2.32	0.43
1:W:218:ALA:HA	1:W:260:VAL:HA	2.00	0.43
1:W:549:LEU:HD21	1:W:561:LEU:HD21	1.99	0.43
1:W:599:ILE:O	1:W:603:VAL:HG23	2.18	0.43
1:Y:72:SER:O	1:Y:74:LEU:HD12	2.18	0.43
1:Y:490:ASP:N	1:Y:493:GLU:OE1	2.42	0.43
1:Y:707:LEU:HD23	1:Y:707:LEU:HA	1.74	0.43
1:Z:57:HIS:HB3	1:Z:109:ILE:HD11	1.99	0.43
1:Z:737:GLY:O	1:Z:741:VAL:HG23	2.17	0.43
1:AA:521:ASP:OD1	1:AA:522:PHE:N	2.44	0.43
1:AA:599:ILE:O	1:AA:603:VAL:HG23	2.18	0.43
1:BA:537:LEU:HA	1:BA:645:PRO:HA	2.00	0.43
1:BA:594:ASN:HB3	1:BA:597:ARG:HD3	1.99	0.43
1:BA:596:ALA:HA	1:BA:599:ILE:HG22	1.99	0.43
1:BA:795:PHE:HA	1:BA:798:MET:HB3	1.99	0.43
1:CA:549:LEU:HD21	1:CA:561:LEU:HD21	1.99	0.43
1:CA:737:GLY:O	1:CA:741:VAL:HG23	2.17	0.43
1:DA:599:ILE:O	1:DA:603:VAL:HG23	2.18	0.43
1:GA:57:HIS:HB3	1:GA:109:ILE:HD11	1.99	0.43
1:IA:599:ILE:O	1:IA:603:VAL:HG23	2.18	0.43
1:JA:91:ARG:NH1	1:JA:94:GLN:OE1	2.39	0.43
1:JA:285:LEU:N	1:JA:315:ARG:O	2.41	0.43
1:KA:400:ALA:HB2	1:KA:491:PRO:HD3	2.00	0.43
1:MA:651:ARG:C	1:MA:653:ALA:H	2.17	0.43
1:MA:742:LEU:HD12	1:MA:742:LEU:HA	1.86	0.43
1:NA:218:ALA:HA	1:NA:260:VAL:HA	2.00	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:OA:387:GLY:HA3	1:OA:402:ILE:HG22	1.99	0.43
1:OA:660:LEU:O	1:OA:664:ILE:HG23	2.18	0.43
1:PA:652:ASP:OD1	1:PA:652:ASP:N	2.48	0.43
1:QA:599:ILE:O	1:QA:603:VAL:HG23	2.18	0.43
1:SA:57:HIS:HB3	1:SA:109:ILE:HD11	1.99	0.43
1:SA:204:TYR:OH	1:SA:210:GLU:OE2	2.30	0.43
1:SA:391:GLN:HB2	1:SA:415:TRP:HB2	2.00	0.43
1:TA:587:THR:HG1	1:TA:588:PHE:H	1.65	0.43
1:UA:599:ILE:O	1:UA:603:VAL:HG23	2.18	0.43
1:VA:391:GLN:HB2	1:VA:415:TRP:HB2	2.00	0.43
1:WA:28:VAL:HG21	1:WA:98:PRO:HB2	1.99	0.43
1:WA:660:LEU:O	1:WA:664:ILE:HG23	2.18	0.43
1:WA:795:PHE:HA	1:WA:798:MET:HB3	1.99	0.43
1:XA:400:ALA:HB2	1:XA:491:PRO:HD3	2.00	0.43
1:XA:664:ILE:HG13	1:XA:665:THR:N	2.32	0.43
1:ZA:717:GLU:HB2	1:BB:707:LEU:CD1	2.38	0.43
1:AB:391:GLN:HB2	1:AB:415:TRP:HB2	2.00	0.43
1:AB:522:PHE:CG	1:OB:573:LYS:HE2	2.53	0.43
1:BB:129:PHE:CG	1:BB:156:GLU:HG3	2.53	0.43
1:BB:174:LEU:HD11	1:BB:212:VAL:HG13	1.99	0.43
1:CB:660:LEU:O	1:CB:664:ILE:HG23	2.18	0.43
1:EB:805:GLY:HA2	1:EB:808:ARG:NE	2.31	0.43
1:FB:129:PHE:CG	1:FB:156:GLU:HG3	2.53	0.43
1:GB:660:LEU:O	1:GB:664:ILE:HG23	2.18	0.43
1:HB:129:PHE:CG	1:HB:156:GLU:HG3	2.53	0.43
1:HB:218:ALA:HA	1:HB:260:VAL:HA	2.00	0.43
1:HB:664:ILE:HG13	1:HB:665:THR:N	2.32	0.43
1:KB:8:ILE:HG23	1:KB:37:ARG:HD3	1.98	0.43
1:KB:599:ILE:O	1:KB:603:VAL:HG23	2.18	0.43
1:KB:795:PHE:HA	1:KB:798:MET:HB3	1.99	0.43
1:LB:223:GLU:OE2	1:LB:224:LYS:NZ	2.42	0.43
1:LB:486:LEU:HB2	1:MB:473:TYR:CD2	2.53	0.43
1:LB:537:LEU:HA	1:LB:645:PRO:HA	2.00	0.43
1:LB:721:ASN:OD1	1:MB:714:MET:CE	2.66	0.43
1:MB:72:SER:O	1:MB:74:LEU:HD12	2.18	0.43
1:MB:129:PHE:CG	1:MB:156:GLU:HG3	2.53	0.43
1:MB:746:LEU:CD1	1:NB:734:ARG:O	2.65	0.43
1:OB:21:GLN:NE2	1:OB:39:ASP:HB2	2.31	0.43
1:OB:544:ASN:ND2	1:PB:573:LYS:NZ	2.66	0.43
1:PB:72:SER:O	1:PB:74:LEU:HD12	2.18	0.43
1:PB:774:ARG:HA	1:PB:777:LEU:HD13	1.99	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:PB:795:PHE:HA	1:PB:798:MET:HB3	2.00	0.43
1:PB:799:THR:HA	1:PB:802:LEU:HD12	1.99	0.43
1:QB:129:PHE:CG	1:QB:156:GLU:HG3	2.53	0.43
1:QB:218:ALA:HA	1:QB:260:VAL:HA	2.00	0.43
1:QB:714:MET:HA	1:QB:717:GLU:HB3	2.00	0.43
1:RB:129:PHE:CG	1:RB:156:GLU:HG3	2.53	0.43
1:RB:814:GLY:HA2	1:RB:815:PRO:HD3	1.89	0.43
1:SB:174:LEU:HD11	1:SB:212:VAL:HG13	1.99	0.43
1:UB:506:LYS:HD3	1:UB:506:LYS:HA	1.81	0.43
1:UB:660:LEU:O	1:UB:664:ILE:HG23	2.18	0.43
1:VB:28:VAL:HG21	1:VB:98:PRO:HB2	1.99	0.43
1:WB:591:PHE:CD1	1:WB:598:ILE:HD11	2.42	0.43
1:WB:599:ILE:O	1:WB:603:VAL:HG23	2.18	0.43
1:YB:129:PHE:CG	1:YB:156:GLU:HG3	2.53	0.43
1:ZB:37:ARG:HE	1:ZB:42:ARG:HA	1.82	0.43
1:ZB:72:SER:O	1:ZB:74:LEU:HD12	2.18	0.43
1:ZB:660:LEU:O	1:ZB:664:ILE:HG23	2.18	0.43
1:AC:387:GLY:HA3	1:AC:402:ILE:HG22	1.99	0.43
1:A:174:LEU:HD11	1:A:212:VAL:HG13	1.99	0.43
1:A:599:ILE:O	1:A:603:VAL:HG23	2.18	0.43
1:A:757:ALA:C	1:C:752:ALA:HB2	2.37	0.43
1:B:400:ALA:HB2	1:B:491:PRO:HD3	2.00	0.43
1:B:533:ASP:CG	1:B:587:THR:HG1	2.16	0.43
1:C:655:GLN:CG	1:E:649:ARG:HD3	2.48	0.43
1:C:664:ILE:HG13	1:C:665:THR:N	2.32	0.43
1:C:799:THR:HA	1:C:802:LEU:HD12	1.99	0.43
1:D:596:ALA:HA	1:D:599:ILE:HG22	1.99	0.43
1:E:72:SER:O	1:E:74:LEU:HD12	2.18	0.43
1:E:506:LYS:HD3	1:E:506:LYS:HA	1.81	0.43
1:F:72:SER:O	1:F:74:LEU:HD12	2.18	0.43
1:F:537:LEU:HA	1:F:645:PRO:HA	2.00	0.43
1:G:218:ALA:HA	1:G:260:VAL:HA	2.00	0.43
1:G:774:ARG:HA	1:G:777:LEU:HD13	1.99	0.43
1:H:72:SER:O	1:H:74:LEU:HD12	2.18	0.43
1:H:714:MET:HA	1:H:717:GLU:HB3	2.01	0.43
1:I:57:HIS:HB3	1:I:109:ILE:HD11	1.99	0.43
1:I:72:SER:O	1:I:74:LEU:HD12	2.18	0.43
1:I:549:LEU:HD21	1:I:561:LEU:HD21	1.99	0.43
1:I:714:MET:HA	1:I:717:GLU:HB3	2.01	0.43
1:L:61:VAL:H	1:L:88:GLN:HE22	1.65	0.43
1:O:737:GLY:O	1:O:741:VAL:HG23	2.17	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:P:129:PHE:CG	1:P:156:GLU:HG3	2.53	0.43
1:Q:174:LEU:HD11	1:Q:212:VAL:HG13	1.99	0.43
1:R:57:HIS:HB3	1:R:109:ILE:HD11	1.99	0.43
1:S:500:LEU:HD23	1:S:500:LEU:HA	1.90	0.43
1:T:714:MET:HA	1:T:717:GLU:HB3	2.01	0.43
1:V:174:LEU:HD11	1:V:212:VAL:HG13	1.99	0.43
1:V:537:LEU:HA	1:V:645:PRO:HA	2.00	0.43
1:W:21:GLN:NE2	1:W:39:ASP:HB2	2.31	0.43
1:X:129:PHE:CG	1:X:156:GLU:HG3	2.53	0.43
1:X:537:LEU:HA	1:X:645:PRO:HA	2.00	0.43
1:X:660:LEU:O	1:X:664:ILE:HG23	2.18	0.43
1:X:731:GLU:OE1	1:X:734:ARG:HG3	2.18	0.43
1:AA:61:VAL:H	1:AA:88:GLN:HE22	1.65	0.43
1:BA:218:ALA:HA	1:BA:260:VAL:HA	2.00	0.43
1:BA:236:LYS:HB2	1:BA:236:LYS:HE3	1.77	0.43
1:BA:400:ALA:HB2	1:BA:491:PRO:HD3	2.00	0.43
1:BA:587:THR:HG1	1:BA:588:PHE:N	2.16	0.43
1:DA:406:TYR:HH	1:DA:412:GLU:CD	2.21	0.43
1:DA:521:ASP:OD1	1:DA:522:PHE:N	2.44	0.43
1:FA:72:SER:O	1:FA:74:LEU:HD12	2.18	0.43
1:FA:129:PHE:CG	1:FA:156:GLU:HG3	2.53	0.43
1:GA:37:ARG:HE	1:GA:42:ARG:HA	1.82	0.43
1:GA:72:SER:O	1:GA:74:LEU:HD12	2.18	0.43
1:GA:537:LEU:HA	1:GA:645:PRO:HA	2.00	0.43
1:GA:731:GLU:OE1	1:GA:734:ARG:HG3	2.18	0.43
1:HA:596:ALA:HA	1:HA:599:ILE:HG22	1.99	0.43
1:IA:8:ILE:HD11	1:IA:35:TYR:CD2	2.51	0.43
1:IA:660:LEU:O	1:IA:664:ILE:HG23	2.18	0.43
1:IA:664:ILE:HG13	1:IA:665:THR:N	2.33	0.43
1:KA:57:HIS:HB3	1:KA:109:ILE:HD11	1.99	0.43
1:LA:537:LEU:HA	1:LA:645:PRO:HA	2.00	0.43
1:MA:714:MET:HA	1:MA:717:GLU:HB3	2.00	0.43
1:MA:795:PHE:HA	1:MA:798:MET:HB3	1.99	0.43
1:OA:654:LEU:HD23	1:OA:654:LEU:HA	1.84	0.43
1:PA:686:GLY:O	1:PA:690:ARG:HG3	2.19	0.43
1:RA:37:ARG:HE	1:RA:42:ARG:HA	1.82	0.43
1:SA:37:ARG:HE	1:SA:42:ARG:HA	1.82	0.43
1:SA:129:PHE:CG	1:SA:156:GLU:HG3	2.53	0.43
1:SA:599:ILE:O	1:SA:603:VAL:HG23	2.18	0.43
1:SA:731:GLU:OE1	1:SA:734:ARG:HG3	2.18	0.43
1:TA:37:ARG:HE	1:TA:42:ARG:HA	1.82	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:TA:774:ARG:HA	1:TA:777:LEU:HD13	1.99	0.43
1:UA:57:HIS:HB3	1:UA:109:ILE:HD11	1.99	0.43
1:UA:400:ALA:HB2	1:UA:491:PRO:HD3	2.00	0.43
1:WA:664:ILE:HG13	1:WA:665:THR:N	2.32	0.43
1:XA:218:ALA:HA	1:XA:260:VAL:HA	2.00	0.43
1:XA:549:LEU:HD21	1:XA:561:LEU:HD21	1.99	0.43
1:AB:596:ALA:HA	1:AB:599:ILE:HG22	1.99	0.43
1:BB:591:PHE:CD1	1:BB:598:ILE:HD11	2.42	0.43
1:BB:660:LEU:O	1:BB:664:ILE:HG23	2.18	0.43
1:CB:651:ARG:C	1:CB:653:ALA:H	2.17	0.43
1:DB:61:VAL:H	1:DB:88:GLN:HE22	1.65	0.43
1:DB:72:SER:O	1:DB:74:LEU:HD12	2.18	0.43
1:DB:174:LEU:HD11	1:DB:212:VAL:HG13	1.99	0.43
1:DB:218:ALA:HA	1:DB:260:VAL:HA	2.00	0.43
1:DB:286:ASP:OD1	1:DB:297:GLY:N	2.47	0.43
1:DB:299:LYS:NZ	1:DB:317:GLU:OE2	2.32	0.43
1:DB:324:TYR:CE2	1:DB:373:VAL:HG21	2.52	0.43
1:DB:549:LEU:HD21	1:DB:561:LEU:HD21	1.99	0.43
1:FB:72:SER:O	1:FB:74:LEU:HD12	2.18	0.43
1:FB:236:LYS:HE3	1:FB:236:LYS:HB2	1.77	0.43
1:FB:521:ASP:OD1	1:FB:522:PHE:N	2.44	0.43
1:HB:737:GLY:O	1:HB:741:VAL:HG23	2.17	0.43
1:IB:8:ILE:HD11	1:IB:35:TYR:CD2	2.51	0.43
1:KB:737:GLY:O	1:KB:741:VAL:HG23	2.17	0.43
1:LB:731:GLU:OE1	1:LB:734:ARG:HG3	2.18	0.43
1:MB:537:LEU:HA	1:MB:645:PRO:HA	2.00	0.43
1:MB:737:GLY:O	1:MB:741:VAL:HG23	2.17	0.43
1:NB:218:ALA:HA	1:NB:260:VAL:HA	2.00	0.43
1:NB:236:LYS:HE3	1:NB:236:LYS:HB2	1.77	0.43
1:OB:169:LYS:HD3	1:PB:193:GLY:O	2.18	0.43
1:OB:500:LEU:HD23	1:OB:500:LEU:HA	1.91	0.43
1:OB:537:LEU:HA	1:OB:645:PRO:HA	2.00	0.43
1:OB:735:ILE:HG22	1:PB:730:ALA:HB1	2.01	0.43
1:OB:735:ILE:CG2	1:PB:730:ALA:HB1	2.49	0.43
1:OB:746:LEU:CD1	1:PB:737:GLY:HA3	2.46	0.43
1:PB:652:ASP:N	1:PB:652:ASP:OD1	2.48	0.43
1:QB:660:LEU:O	1:QB:664:ILE:HG23	2.18	0.43
1:RB:660:LEU:O	1:RB:664:ILE:HG23	2.18	0.43
1:RB:774:ARG:HA	1:RB:777:LEU:HD13	1.99	0.43
1:RB:795:PHE:HA	1:RB:798:MET:HB3	1.99	0.43
1:SB:37:ARG:HE	1:SB:42:ARG:HA	1.82	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:SB:218:ALA:HA	1:SB:260:VAL:HA	2.00	0.43
1:SB:533:ASP:CG	1:SB:587:THR:HG1	2.15	0.43
1:SB:703:ARG:NH2	1:TB:693:ILE:HD11	2.33	0.43
1:SB:805:GLY:HA2	1:SB:808:ARG:NE	2.31	0.43
1:TB:391:GLN:HB2	1:TB:415:TRP:HB2	2.00	0.43
1:TB:537:LEU:HA	1:TB:645:PRO:HA	2.00	0.43
1:TB:714:MET:HA	1:TB:717:GLU:HB3	2.00	0.43
1:WB:768:MET:HB3	1:WB:768:MET:HE2	1.62	0.43
1:XB:387:GLY:HA3	1:XB:402:ILE:HG22	1.99	0.43
1:XB:391:GLN:HB2	1:XB:415:TRP:HB2	2.00	0.43
1:XB:660:LEU:O	1:XB:664:ILE:HG23	2.18	0.43
1:XB:731:GLU:OE1	1:XB:734:ARG:HG3	2.18	0.43
1:YB:660:LEU:O	1:YB:664:ILE:HG23	2.18	0.43
1:YB:754:GLU:CG	1:ZB:744:ALA:HB1	2.48	0.43
1:ZB:218:ALA:HA	1:ZB:260:VAL:HA	2.00	0.43
1:ZB:594:ASN:HB3	1:ZB:597:ARG:HD3	1.99	0.43
1:ZB:731:GLU:OE1	1:ZB:734:ARG:HG3	2.18	0.43
1:ZB:814:GLY:HA2	1:ZB:815:PRO:HD3	1.89	0.43
1:AC:599:ILE:O	1:AC:603:VAL:HG23	2.18	0.43
1:A:660:LEU:O	1:A:664:ILE:HG23	2.18	0.43
1:A:743:GLN:CD	1:C:733:ALA:CB	2.63	0.43
1:A:790:VAL:HG13	1:C:785:GLN:N	2.31	0.43
1:B:599:ILE:O	1:B:603:VAL:HG23	2.18	0.43
1:B:660:LEU:O	1:B:664:ILE:HG23	2.18	0.43
1:B:768:MET:HE1	1:D:762:VAL:CG2	2.37	0.43
1:C:549:LEU:HD21	1:C:561:LEU:HD21	1.99	0.43
1:C:704:LYS:NZ	1:C:705:GLU:OE2	2.52	0.43
1:D:218:ALA:HA	1:D:260:VAL:HA	2.00	0.43
1:D:275:THR:HG21	1:F:296:LEU:N	2.33	0.43
1:D:799:THR:HA	1:D:802:LEU:HD12	1.99	0.43
1:E:599:ILE:O	1:E:603:VAL:HG23	2.18	0.43
1:E:737:GLY:O	1:E:741:VAL:HG23	2.17	0.43
1:F:129:PHE:CG	1:F:156:GLU:HG3	2.53	0.43
1:F:490:ASP:HB3	1:F:491:PRO:HD2	2.01	0.43
1:F:737:GLY:O	1:F:741:VAL:HG23	2.17	0.43
1:G:129:PHE:CG	1:G:156:GLU:HG3	2.53	0.43
1:H:324:TYR:CE2	1:H:373:VAL:HG21	2.52	0.43
1:H:537:LEU:HA	1:H:645:PRO:HA	2.00	0.43
1:H:686:GLY:O	1:H:690:ARG:HG3	2.19	0.43
1:I:490:ASP:HB3	1:I:491:PRO:HD2	2.01	0.43
1:J:72:SER:O	1:J:74:LEU:HD12	2.18	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:774:ARG:HA	1:J:777:LEU:HD13	1.99	0.43
1:K:709:LEU:HA	1:K:709:LEU:HD23	1.82	0.43
1:L:522:PHE:CD2	1:N:573:LYS:HE2	2.53	0.43
1:N:279:ARG:NE	1:P:337:LEU:HD12	2.33	0.43
1:N:731:GLU:OE1	1:N:734:ARG:HG3	2.18	0.43
1:N:805:GLY:HA2	1:N:808:ARG:NE	2.32	0.43
1:P:731:GLU:OE1	1:P:734:ARG:HG3	2.18	0.43
1:Q:387:GLY:HA3	1:Q:402:ILE:HG22	1.99	0.43
1:R:32:PRO:HG2	1:T:23:SER:O	2.18	0.43
1:R:387:GLY:HA3	1:R:402:ILE:HG22	1.99	0.43
1:R:731:GLU:OE1	1:R:734:ARG:HG3	2.18	0.43
1:T:731:GLU:OE1	1:T:734:ARG:HG3	2.18	0.43
1:V:490:ASP:HB3	1:V:491:PRO:HD2	2.01	0.43
1:V:599:ILE:O	1:V:603:VAL:HG23	2.18	0.43
1:V:666:THR:CG2	1:X:657:SER:HB2	2.48	0.43
1:W:709:LEU:HA	1:W:709:LEU:HD23	1.82	0.43
1:X:714:MET:HA	1:X:717:GLU:HB3	2.01	0.43
1:Z:599:ILE:O	1:Z:603:VAL:HG23	2.18	0.43
1:Z:774:ARG:HA	1:Z:777:LEU:HD13	1.99	0.43
1:AA:537:LEU:HA	1:AA:645:PRO:HA	2.00	0.43
1:AA:549:LEU:HD21	1:AA:561:LEU:HD21	1.99	0.43
1:BA:174:LEU:HD11	1:BA:212:VAL:HG13	1.99	0.43
1:CA:72:SER:O	1:CA:74:LEU:HD12	2.18	0.43
1:DA:129:PHE:CG	1:DA:156:GLU:HG3	2.53	0.43
1:DA:660:LEU:O	1:DA:664:ILE:HG23	2.18	0.43
1:EA:537:LEU:HA	1:EA:645:PRO:HA	2.00	0.43
1:EA:664:ILE:HG13	1:EA:665:THR:N	2.32	0.43
1:FA:737:GLY:O	1:FA:741:VAL:HG23	2.17	0.43
1:GA:714:MET:HA	1:GA:717:GLU:HB3	2.01	0.43
1:GA:742:LEU:HD12	1:GA:742:LEU:HA	1.86	0.43
1:JA:129:PHE:CG	1:JA:156:GLU:HG3	2.53	0.43
1:KA:61:VAL:H	1:KA:88:GLN:HE22	1.66	0.43
1:KA:591:PHE:CD1	1:KA:598:ILE:HD11	2.42	0.43
1:KA:664:ILE:HG13	1:KA:665:THR:N	2.32	0.43
1:KA:704:LYS:NZ	1:KA:705:GLU:OE2	2.52	0.43
1:LA:129:PHE:CG	1:LA:156:GLU:HG3	2.53	0.43
1:LA:686:GLY:O	1:LA:690:ARG:HG3	2.19	0.43
1:LA:714:MET:HA	1:LA:717:GLU:HB3	2.01	0.43
1:MA:549:LEU:HD21	1:MA:561:LEU:HD21	1.99	0.43
1:MA:731:GLU:OE1	1:MA:734:ARG:HG3	2.18	0.43
1:NA:596:ALA:HA	1:NA:599:ILE:HG22	1.99	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:PA:549:LEU:HD21	1:PA:561:LEU:HD21	1.99	0.43
1:PA:795:PHE:HA	1:PA:798:MET:HB3	1.99	0.43
1:QA:549:LEU:HD21	1:QA:561:LEU:HD21	1.99	0.43
1:RA:599:ILE:O	1:RA:603:VAL:HG23	2.18	0.43
1:SA:737:GLY:O	1:SA:741:VAL:HG23	2.17	0.43
1:TA:28:VAL:HG21	1:TA:98:PRO:HB2	1.98	0.43
1:VA:129:PHE:CG	1:VA:156:GLU:HG3	2.53	0.43
1:VA:795:PHE:HA	1:VA:798:MET:HB3	1.99	0.43
1:VA:799:THR:HA	1:VA:802:LEU:HD12	1.99	0.43
1:WA:72:SER:O	1:WA:74:LEU:HD12	2.18	0.43
1:WA:549:LEU:HD21	1:WA:561:LEU:HD21	1.99	0.43
1:WA:774:ARG:HA	1:WA:777:LEU:HD13	1.99	0.43
1:XA:57:HIS:HB3	1:XA:109:ILE:HD11	1.99	0.43
1:XA:686:GLY:O	1:XA:690:ARG:HG3	2.19	0.43
1:YA:57:HIS:HB3	1:YA:109:ILE:HD11	1.99	0.43
1:ZA:737:GLY:O	1:ZA:741:VAL:HG23	2.17	0.43
1:ZA:774:ARG:HA	1:ZA:777:LEU:HD13	1.99	0.43
1:AB:742:LEU:HD12	1:AB:742:LEU:HA	1.86	0.43
1:BB:72:SER:O	1:BB:74:LEU:HD12	2.18	0.43
1:BB:490:ASP:HB3	1:BB:491:PRO:HD2	2.01	0.43
1:BB:599:ILE:O	1:BB:603:VAL:HG23	2.18	0.43
1:BB:742:LEU:HD23	1:CB:734:ARG:HD3	1.98	0.43
1:CB:400:ALA:HB2	1:CB:491:PRO:HD3	2.00	0.43
1:CB:664:ILE:HG13	1:CB:665:THR:N	2.32	0.43
1:EB:774:ARG:HA	1:EB:777:LEU:HD13	1.99	0.43
1:FB:244:ARG:HD3	1:FB:244:ARG:HA	1.85	0.43
1:GB:21:GLN:NE2	1:GB:39:ASP:HB2	2.31	0.43
1:GB:490:ASP:HB3	1:GB:491:PRO:HD2	2.01	0.43
1:GB:682:GLN:NE2	1:GB:682:GLN:O	2.50	0.43
1:HB:236:LYS:HB2	1:HB:236:LYS:HE3	1.77	0.43
1:HB:549:LEU:HD21	1:HB:561:LEU:HD21	1.99	0.43
1:HB:591:PHE:CD1	1:HB:598:ILE:HD11	2.42	0.43
1:HB:774:ARG:HA	1:HB:777:LEU:HD13	1.99	0.43
1:IB:37:ARG:HE	1:IB:42:ARG:HA	1.82	0.43
1:IB:714:MET:HA	1:IB:717:GLU:HB3	2.01	0.43
1:JB:299:LYS:NZ	1:JB:317:GLU:OE2	2.32	0.43
1:KB:37:ARG:HE	1:KB:42:ARG:HA	1.82	0.43
1:LB:174:LEU:HD11	1:LB:212:VAL:HG13	1.99	0.43
1:LB:391:GLN:HB2	1:LB:415:TRP:HB2	2.00	0.43
1:LB:639:ASP:HB3	1:MB:577:SER:OG	2.19	0.43
1:LB:765:VAL:CG1	1:MB:759:LEU:HD13	2.26	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:MB:37:ARG:HE	1:MB:42:ARG:HA	1.82	0.43
1:NB:61:VAL:H	1:NB:88:GLN:HE22	1.65	0.43
1:NB:286:ASP:OD1	1:NB:297:GLY:N	2.47	0.43
1:OB:129:PHE:CG	1:OB:156:GLU:HG3	2.53	0.43
1:OB:387:GLY:HA3	1:OB:402:ILE:HG22	1.99	0.43
1:PB:714:MET:HA	1:PB:717:GLU:HB3	2.00	0.43
1:QB:686:GLY:O	1:QB:690:ARG:HG3	2.19	0.43
1:TB:129:PHE:CG	1:TB:156:GLU:HG3	2.53	0.43
1:UB:549:LEU:HD21	1:UB:561:LEU:HD21	1.99	0.43
1:VB:549:LEU:HD21	1:VB:561:LEU:HD21	1.99	0.43
1:WB:391:GLN:HB2	1:WB:415:TRP:HB2	2.00	0.43
1:WB:490:ASP:HB3	1:WB:491:PRO:HD2	2.01	0.43
1:XB:129:PHE:CG	1:XB:156:GLU:HG3	2.53	0.43
1:XB:174:LEU:HD11	1:XB:212:VAL:HG13	1.99	0.43
1:XB:599:ILE:O	1:XB:603:VAL:HG23	2.18	0.43
1:YB:218:ALA:HA	1:YB:260:VAL:HA	2.00	0.43
1:YB:664:ILE:HG13	1:YB:665:THR:N	2.32	0.43
1:ZB:652:ASP:OD1	1:ZB:652:ASP:N	2.48	0.43
1:AC:795:PHE:HA	1:AC:798:MET:HB3	1.99	0.43
1:A:728:SER:HA	1:C:722:ALA:HB3	1.98	0.43
1:B:37:ARG:HE	1:B:42:ARG:HA	1.82	0.43
1:B:61:VAL:H	1:B:88:GLN:HE22	1.66	0.43
1:C:387:GLY:HA3	1:C:402:ILE:HG22	1.99	0.43
1:C:599:ILE:O	1:C:603:VAL:HG23	2.18	0.43
1:C:794:LYS:HD3	1:E:788:ALA:HA	1.98	0.43
1:D:490:ASP:HB3	1:D:491:PRO:HD2	2.01	0.43
1:D:506:LYS:HD3	1:D:506:LYS:HA	1.81	0.43
1:E:594:ASN:HB3	1:E:597:ARG:HD3	1.99	0.43
1:F:686:GLY:O	1:F:690:ARG:HG3	2.19	0.43
1:F:795:PHE:HA	1:F:798:MET:HB3	2.00	0.43
1:G:391:GLN:HB2	1:G:415:TRP:HB2	2.00	0.43
1:G:686:GLY:O	1:G:690:ARG:HG3	2.19	0.43
1:G:795:PHE:HA	1:G:798:MET:HB3	1.99	0.43
1:I:731:GLU:OE1	1:I:734:ARG:HG3	2.18	0.43
1:J:400:ALA:HB2	1:J:491:PRO:HD3	1.99	0.43
1:J:709:LEU:HA	1:J:709:LEU:HD23	1.82	0.43
1:J:714:MET:HA	1:J:717:GLU:HB3	2.01	0.43
1:K:490:ASP:HB3	1:K:491:PRO:HD2	2.01	0.43
1:L:714:MET:HA	1:L:717:GLU:HB3	2.01	0.43
1:N:57:HIS:HB3	1:N:109:ILE:HD11	1.99	0.43
1:N:61:VAL:H	1:N:88:GLN:HE22	1.66	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:P:391:GLN:HB2	1:P:415:TRP:HB2	2.00	0.43
1:P:400:ALA:HB2	1:P:491:PRO:HD3	1.99	0.43
1:P:654:LEU:HD23	1:P:654:LEU:HA	1.84	0.43
1:Q:21:GLN:NE2	1:Q:39:ASP:HB2	2.31	0.43
1:Q:391:GLN:HB2	1:Q:415:TRP:HB2	2.00	0.43
1:Q:599:ILE:O	1:Q:603:VAL:HG23	2.18	0.43
1:R:704:LYS:NZ	1:R:705:GLU:OE2	2.52	0.43
1:S:28:VAL:HG21	1:S:98:PRO:HB2	1.99	0.43
1:T:72:SER:O	1:T:74:LEU:HD12	2.18	0.43
1:T:490:ASP:HB3	1:T:491:PRO:HD2	2.01	0.43
1:T:660:LEU:O	1:T:664:ILE:HG23	2.18	0.43
1:W:537:LEU:HA	1:W:645:PRO:HA	2.00	0.43
1:X:490:ASP:HB3	1:X:491:PRO:HD2	2.01	0.43
1:X:594:ASN:HB3	1:X:597:ARG:HD3	1.99	0.43
1:Y:129:PHE:CG	1:Y:156:GLU:HG3	2.53	0.43
1:Y:387:GLY:HA3	1:Y:402:ILE:HG22	1.99	0.43
1:Y:704:LYS:NZ	1:Y:705:GLU:OE2	2.52	0.43
1:Y:805:GLY:HA2	1:Y:808:ARG:NE	2.32	0.43
1:Z:406:TYR:HH	1:Z:412:GLU:CD	2.22	0.43
1:Z:490:ASP:HB3	1:Z:491:PRO:HD2	2.01	0.43
1:AA:8:ILE:HD11	1:AA:35:TYR:CD2	2.51	0.43
1:AA:799:THR:HA	1:AA:802:LEU:HD12	1.99	0.43
1:BA:129:PHE:CG	1:BA:156:GLU:HG3	2.53	0.43
1:BA:660:LEU:O	1:BA:664:ILE:HG23	2.18	0.43
1:BA:704:LYS:NZ	1:BA:705:GLU:OE2	2.52	0.43
1:DA:704:LYS:NZ	1:DA:705:GLU:OE2	2.52	0.43
1:EA:599:ILE:O	1:EA:603:VAL:HG23	2.18	0.43
1:FA:218:ALA:HA	1:FA:260:VAL:HA	2.00	0.43
1:FA:660:LEU:O	1:FA:664:ILE:HG23	2.18	0.43
1:IA:129:PHE:CG	1:IA:156:GLU:HG3	2.53	0.43
1:IA:171:ASN:HD21	1:KA:233:GLN:CB	2.32	0.43
1:IA:400:ALA:HB2	1:IA:491:PRO:HD3	2.00	0.43
1:IA:490:ASP:HB3	1:IA:491:PRO:HD2	2.01	0.43
1:JA:37:ARG:HE	1:JA:42:ARG:HA	1.82	0.43
1:JA:400:ALA:HB2	1:JA:491:PRO:HD3	1.99	0.43
1:JA:704:LYS:NZ	1:JA:705:GLU:OE2	2.52	0.43
1:KA:537:LEU:HA	1:KA:645:PRO:HA	2.00	0.43
1:MA:391:GLN:HB2	1:MA:415:TRP:HB2	2.00	0.43
1:MA:599:ILE:O	1:MA:603:VAL:HG23	2.18	0.43
1:NA:490:ASP:HB3	1:NA:491:PRO:HD2	2.01	0.43
1:PA:599:ILE:O	1:PA:603:VAL:HG23	2.18	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:QA:660:LEU:O	1:QA:664:ILE:HG23	2.18	0.43
1:RA:660:LEU:O	1:RA:664:ILE:HG23	2.18	0.43
1:SA:704:LYS:NZ	1:SA:705:GLU:OE2	2.52	0.43
1:SA:742:LEU:HD12	1:SA:742:LEU:HA	1.86	0.43
1:SA:799:THR:HA	1:SA:802:LEU:HD12	1.99	0.43
1:TA:8:ILE:HD11	1:TA:35:TYR:CD2	2.51	0.43
1:TA:72:SER:O	1:TA:74:LEU:HD12	2.18	0.43
1:TA:129:PHE:CG	1:TA:156:GLU:HG3	2.53	0.43
1:TA:660:LEU:O	1:TA:664:ILE:HG23	2.18	0.43
1:UA:204:TYR:OH	1:UA:210:GLU:OE2	2.30	0.43
1:VA:731:GLU:OE1	1:VA:734:ARG:HG3	2.18	0.43
1:WA:391:GLN:HB2	1:WA:415:TRP:HB2	2.00	0.43
1:XA:799:THR:HA	1:XA:802:LEU:HD12	1.99	0.43
1:YA:218:ALA:HA	1:YA:260:VAL:HA	2.00	0.43
1:YA:387:GLY:HA3	1:YA:402:ILE:HG22	1.99	0.43
1:CB:218:ALA:HA	1:CB:260:VAL:HA	2.00	0.43
1:CB:391:GLN:HB2	1:CB:415:TRP:HB2	2.00	0.43
1:CB:549:LEU:HD21	1:CB:561:LEU:HD21	1.99	0.43
1:CB:731:GLU:OE1	1:CB:734:ARG:HG3	2.18	0.43
1:DB:664:ILE:HG13	1:DB:665:THR:N	2.32	0.43
1:EB:660:LEU:O	1:EB:664:ILE:HG23	2.18	0.43
1:FB:704:LYS:NZ	1:FB:705:GLU:OE2	2.52	0.43
1:FB:714:MET:HA	1:FB:717:GLU:HB3	2.01	0.43
1:FB:799:THR:HA	1:FB:802:LEU:HD12	1.99	0.43
1:GB:129:PHE:CG	1:GB:156:GLU:HG3	2.53	0.43
1:GB:400:ALA:HB2	1:GB:491:PRO:HD3	1.99	0.43
1:GB:594:ASN:HB3	1:GB:597:ARG:HD3	1.99	0.43
1:IB:72:SER:O	1:IB:74:LEU:HD12	2.18	0.43
1:IB:537:LEU:HA	1:IB:645:PRO:HA	2.00	0.43
1:IB:651:ARG:C	1:IB:653:ALA:H	2.17	0.43
1:IB:707:LEU:HD23	1:IB:707:LEU:HA	1.74	0.43
1:LB:790:VAL:HG22	1:MB:785:GLN:OE1	2.19	0.43
1:MB:204:TYR:OH	1:MB:210:GLU:OE2	2.30	0.43
1:MB:391:GLN:HB2	1:MB:415:TRP:HB2	2.00	0.43
1:MB:686:GLY:O	1:MB:690:ARG:HG3	2.19	0.43
1:MB:713:SER:OG	1:NB:703:ARG:HG2	2.17	0.43
1:NB:594:ASN:HB3	1:NB:597:ARG:HD3	1.99	0.43
1:NB:660:LEU:O	1:NB:664:ILE:HG23	2.18	0.43
1:NB:731:GLU:OE1	1:NB:734:ARG:HG3	2.18	0.43
1:OB:218:ALA:HA	1:OB:260:VAL:HA	2.00	0.43
1:OB:737:GLY:O	1:OB:741:VAL:HG23	2.17	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:PB:391:GLN:HB2	1:PB:415:TRP:HB2	2.00	0.43
1:QB:537:LEU:HA	1:QB:645:PRO:HA	2.00	0.43
1:RB:174:LEU:HD11	1:RB:212:VAL:HG13	1.99	0.43
1:RB:490:ASP:HB3	1:RB:491:PRO:HD2	2.01	0.43
1:SB:549:LEU:HD21	1:SB:561:LEU:HD21	1.99	0.43
1:TB:660:LEU:O	1:TB:664:ILE:HG23	2.18	0.43
1:UB:731:GLU:OE1	1:UB:734:ARG:HG3	2.18	0.43
1:VB:174:LEU:HD11	1:VB:212:VAL:HG13	1.99	0.43
1:VB:324:TYR:CE2	1:VB:373:VAL:HG21	2.52	0.43
1:VB:599:ILE:O	1:VB:603:VAL:HG23	2.18	0.43
1:WB:521:ASP:OD1	1:WB:522:PHE:N	2.44	0.43
1:WB:537:LEU:HA	1:WB:645:PRO:HA	2.00	0.43
1:WB:660:LEU:O	1:WB:664:ILE:HG23	2.18	0.43
1:WB:795:PHE:HA	1:WB:798:MET:HB3	1.99	0.43
1:YB:61:VAL:H	1:YB:88:GLN:HE22	1.66	0.43
1:ZB:537:LEU:HA	1:ZB:645:PRO:HA	2.00	0.43
1:ZB:686:GLY:O	1:ZB:690:ARG:HG3	2.19	0.43
1:A:549:LEU:HD21	1:A:561:LEU:HD21	1.99	0.43
1:A:772:TYR:CG	1:C:766:ARG:HD3	2.53	0.43
1:B:54:PRO:HB2	1:B:57:HIS:CE1	2.54	0.43
1:B:129:PHE:CG	1:B:156:GLU:HG3	2.53	0.43
1:C:731:GLU:OE1	1:C:734:ARG:HG3	2.18	0.43
1:C:765:VAL:HG12	1:E:759:LEU:CD1	2.48	0.43
1:D:9:ARG:HB3	1:F:24:ASN:HB2	2.01	0.43
1:D:51:VAL:CA	1:F:85:HIS:CD2	2.96	0.43
1:D:275:THR:HG22	1:F:296:LEU:HB2	1.98	0.43
1:E:286:ASP:OD1	1:E:297:GLY:N	2.47	0.43
1:F:8:ILE:HD11	1:F:35:TYR:CD2	2.51	0.43
1:F:61:VAL:H	1:F:88:GLN:HE22	1.66	0.43
1:F:704:LYS:NZ	1:F:705:GLU:OE2	2.52	0.43
1:F:731:GLU:OE1	1:F:734:ARG:HG3	2.18	0.43
1:F:799:THR:HA	1:F:802:LEU:HD12	1.99	0.43
1:G:490:ASP:HB3	1:G:491:PRO:HD2	2.01	0.43
1:G:537:LEU:HA	1:G:645:PRO:HA	2.00	0.43
1:H:174:LEU:HD11	1:H:212:VAL:HG13	1.99	0.43
1:H:204:TYR:OH	1:H:210:GLU:OE2	2.30	0.43
1:H:490:ASP:HB3	1:H:491:PRO:HD2	2.01	0.43
1:I:537:LEU:HA	1:I:645:PRO:HA	2.00	0.43
1:K:174:LEU:HD11	1:K:212:VAL:HG13	1.99	0.43
1:K:686:GLY:O	1:K:690:ARG:HG3	2.19	0.43
1:L:400:ALA:HB2	1:L:491:PRO:HD3	2.00	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:704:LYS:NZ	1:L:705:GLU:OE2	2.52	0.43
1:L:795:PHE:HA	1:L:798:MET:HB3	1.99	0.43
1:M:72:SER:O	1:M:74:LEU:HD12	2.18	0.43
1:M:686:GLY:O	1:M:690:ARG:HG3	2.19	0.43
1:M:704:LYS:NZ	1:M:705:GLU:OE2	2.52	0.43
1:O:549:LEU:HD21	1:O:561:LEU:HD21	1.99	0.43
1:P:218:ALA:HA	1:P:260:VAL:HA	2.00	0.43
1:R:599:ILE:O	1:R:603:VAL:HG23	2.18	0.43
1:S:8:ILE:HD11	1:S:35:TYR:CD2	2.51	0.43
1:S:387:GLY:HA3	1:S:402:ILE:HG22	1.99	0.43
1:S:490:ASP:N	1:S:493:GLU:OE1	2.43	0.43
1:S:587:THR:HG1	1:S:588:PHE:H	1.65	0.43
1:T:400:ALA:HB2	1:T:491:PRO:HD3	2.00	0.43
1:T:704:LYS:NZ	1:T:705:GLU:OE2	2.52	0.43
1:V:129:PHE:CG	1:V:156:GLU:HG3	2.53	0.43
1:V:591:PHE:CD1	1:V:598:ILE:HD11	2.42	0.43
1:V:704:LYS:NZ	1:V:705:GLU:OE2	2.52	0.43
1:W:400:ALA:HB2	1:W:491:PRO:HD3	2.00	0.43
1:W:490:ASP:HB3	1:W:491:PRO:HD2	2.01	0.43
1:Y:400:ALA:HB2	1:Y:491:PRO:HD3	1.99	0.43
1:Z:129:PHE:CG	1:Z:156:GLU:HG3	2.53	0.43
1:Z:174:LEU:HD11	1:Z:212:VAL:HG13	2.00	0.43
1:Z:660:LEU:O	1:Z:664:ILE:HG23	2.18	0.43
1:AA:714:MET:HA	1:AA:717:GLU:HB3	2.01	0.43
1:BA:599:ILE:O	1:BA:603:VAL:HG23	2.18	0.43
1:BA:714:MET:HA	1:BA:717:GLU:HB3	2.00	0.43
1:CA:660:LEU:O	1:CA:664:ILE:HG23	2.18	0.43
1:EA:660:LEU:O	1:EA:664:ILE:HG23	2.18	0.43
1:FA:61:VAL:H	1:FA:88:GLN:HE22	1.65	0.43
1:GA:391:GLN:HB2	1:GA:415:TRP:HB2	2.00	0.43
1:HA:603:VAL:HG11	1:HA:638:VAL:HG21	2.01	0.43
1:HA:768:MET:HE2	1:HA:768:MET:HB3	1.62	0.43
1:IA:654:LEU:HD23	1:IA:654:LEU:HA	1.84	0.43
1:JA:244:ARG:HD3	1:JA:244:ARG:HA	1.85	0.43
1:JA:490:ASP:HB3	1:JA:491:PRO:HD2	2.01	0.43
1:JA:521:ASP:OD1	1:JA:522:PHE:N	2.44	0.43
1:JA:686:GLY:O	1:JA:690:ARG:HG3	2.19	0.43
1:JA:731:GLU:OE1	1:JA:734:ARG:HG3	2.18	0.43
1:KA:490:ASP:HB3	1:KA:491:PRO:HD2	2.01	0.43
1:KA:599:ILE:O	1:KA:603:VAL:HG23	2.18	0.43
1:LA:660:LEU:O	1:LA:664:ILE:HG23	2.18	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:LA:704:LYS:NZ	1:LA:705:GLU:OE2	2.52	0.43
1:NA:61:VAL:H	1:NA:88:GLN:HE22	1.66	0.43
1:NA:660:LEU:O	1:NA:664:ILE:HG23	2.18	0.43
1:OA:490:ASP:HB3	1:OA:491:PRO:HD2	2.01	0.43
1:PA:37:ARG:HE	1:PA:42:ARG:HA	1.82	0.43
1:PA:72:SER:O	1:PA:74:LEU:HD12	2.18	0.43
1:PA:400:ALA:HB2	1:PA:491:PRO:HD3	2.00	0.43
1:PA:594:ASN:HB3	1:PA:597:ARG:HD3	1.99	0.43
1:PA:660:LEU:O	1:PA:664:ILE:HG23	2.18	0.43
1:QA:236:LYS:HB2	1:QA:236:LYS:HE3	1.77	0.43
1:QA:391:GLN:HB2	1:QA:415:TRP:HB2	2.00	0.43
1:QA:537:LEU:HA	1:QA:645:PRO:HA	2.00	0.43
1:QA:704:LYS:NZ	1:QA:705:GLU:OE2	2.52	0.43
1:SA:594:ASN:HB3	1:SA:597:ARG:HD3	1.99	0.43
1:TA:61:VAL:H	1:TA:88:GLN:HE22	1.66	0.43
1:UA:218:ALA:HA	1:UA:260:VAL:HA	2.00	0.43
1:UA:537:LEU:HA	1:UA:645:PRO:HA	2.00	0.43
1:UA:660:LEU:O	1:UA:664:ILE:HG23	2.18	0.43
1:UA:664:ILE:HG13	1:UA:665:THR:N	2.32	0.43
1:VA:652:ASP:OD1	1:VA:652:ASP:N	2.48	0.43
1:VA:714:MET:HA	1:VA:717:GLU:HB3	2.00	0.43
1:XA:72:SER:O	1:XA:74:LEU:HD12	2.18	0.43
1:XA:537:LEU:HA	1:XA:645:PRO:HA	2.00	0.43
1:XA:714:MET:HA	1:XA:717:GLU:HB3	2.01	0.43
1:YA:596:ALA:HA	1:YA:599:ILE:HG22	1.99	0.43
1:ZA:218:ALA:HA	1:ZA:260:VAL:HA	2.00	0.43
1:ZA:731:GLU:OE1	1:ZA:734:ARG:HG3	2.18	0.43
1:AB:537:LEU:HA	1:AB:645:PRO:HA	2.00	0.43
1:BB:686:GLY:O	1:BB:690:ARG:HG3	2.19	0.43
1:CB:795:PHE:HA	1:CB:798:MET:HB3	1.99	0.43
1:EB:400:ALA:HB2	1:EB:491:PRO:HD3	2.00	0.43
1:EB:537:LEU:HA	1:EB:645:PRO:HA	2.00	0.43
1:FB:57:HIS:HB3	1:FB:109:ILE:HD11	1.99	0.43
1:FB:223:GLU:OE2	1:FB:224:LYS:NZ	2.42	0.43
1:FB:394:LYS:HE3	1:FB:394:LYS:HB2	1.87	0.43
1:FB:490:ASP:HB3	1:FB:491:PRO:HD2	2.01	0.43
1:FB:500:LEU:HD23	1:FB:500:LEU:HA	1.91	0.43
1:FB:660:LEU:O	1:FB:664:ILE:HG23	2.18	0.43
1:HB:651:ARG:C	1:HB:653:ALA:H	2.17	0.43
1:HB:731:GLU:OE1	1:HB:734:ARG:HG3	2.18	0.43
1:IB:129:PHE:CG	1:IB:156:GLU:HG3	2.53	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:IB:704:LYS:NZ	1:IB:705:GLU:OE2	2.52	0.43
1:JB:400:ALA:HB2	1:JB:491:PRO:HD3	2.00	0.43
1:JB:714:MET:HA	1:JB:717:GLU:HB3	2.00	0.43
1:LB:703:ARG:NH2	1:MB:693:ILE:HD12	2.29	0.43
1:NB:704:LYS:NZ	1:NB:705:GLU:OE2	2.52	0.43
1:QB:61:VAL:H	1:QB:88:GLN:HE22	1.66	0.43
1:QB:731:GLU:OE1	1:QB:734:ARG:HG3	2.18	0.43
1:RB:595:SER:HB2	1:SB:580:ARG:HH12	1.82	0.43
1:SB:72:SER:O	1:SB:74:LEU:HD12	2.18	0.43
1:TB:285:LEU:N	1:TB:315:ARG:O	2.41	0.43
1:UB:72:SER:O	1:UB:74:LEU:HD12	2.18	0.43
1:UB:599:ILE:O	1:UB:603:VAL:HG23	2.18	0.43
1:UB:651:ARG:C	1:UB:653:ALA:H	2.17	0.43
1:VB:596:ALA:HA	1:VB:599:ILE:HG22	1.99	0.43
1:VB:750:ALA:CB	1:WB:744:ALA:HB2	2.48	0.43
1:WB:72:SER:O	1:WB:74:LEU:HD12	2.18	0.43
1:WB:129:PHE:CG	1:WB:156:GLU:HG3	2.53	0.43
1:WB:714:MET:HA	1:WB:717:GLU:HB3	2.01	0.43
1:XB:537:LEU:HA	1:XB:645:PRO:HA	2.00	0.43
1:XB:714:MET:HA	1:XB:717:GLU:HB3	2.01	0.43
1:ZB:129:PHE:CG	1:ZB:156:GLU:HG3	2.53	0.43
1:ZB:714:MET:HA	1:ZB:717:GLU:HB3	2.00	0.43
1:AC:72:SER:O	1:AC:74:LEU:HD12	2.18	0.43
1:AC:591:PHE:CD1	1:AC:598:ILE:HD11	2.42	0.43
1:AC:731:GLU:OE1	1:AC:734:ARG:HG3	2.18	0.43
1:A:72:SER:O	1:A:74:LEU:HD12	2.18	0.43
1:A:686:GLY:O	1:A:690:ARG:HG3	2.19	0.43
1:A:799:THR:HA	1:A:802:LEU:HD12	1.99	0.43
1:C:750:ALA:HA	1:E:741:VAL:HA	1.99	0.43
1:D:54:PRO:HB2	1:D:57:HIS:CE1	2.54	0.43
1:D:174:LEU:HD11	1:D:212:VAL:HG13	1.99	0.43
1:D:391:GLN:HB2	1:D:415:TRP:HB2	2.00	0.43
1:D:666:THR:CB	1:F:657:SER:OG	2.65	0.43
1:D:688:LEU:CD1	1:F:679:ARG:CZ	2.83	0.43
1:D:774:ARG:HA	1:D:777:LEU:HD13	1.99	0.43
1:E:129:PHE:CG	1:E:156:GLU:HG3	2.53	0.43
1:G:596:ALA:HA	1:G:599:ILE:HG22	1.99	0.43
1:J:731:GLU:OE1	1:J:734:ARG:HG3	2.18	0.43
1:L:279:ARG:NE	1:N:337:LEU:HD12	2.33	0.43
1:L:686:GLY:O	1:L:690:ARG:HG3	2.19	0.43
1:M:129:PHE:CG	1:M:156:GLU:HG3	2.53	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:774:ARG:HA	1:M:777:LEU:HD13	1.99	0.43
1:M:814:GLY:HA2	1:M:815:PRO:HD3	1.89	0.43
1:N:218:ALA:HA	1:N:260:VAL:HA	2.00	0.43
1:N:686:GLY:O	1:N:690:ARG:HG3	2.19	0.43
1:N:707:LEU:HD23	1:N:707:LEU:HA	1.74	0.43
1:N:714:MET:HA	1:N:717:GLU:HB3	2.01	0.43
1:O:391:GLN:HB2	1:O:415:TRP:HB2	2.00	0.43
1:P:387:GLY:HA3	1:P:402:ILE:HG22	1.99	0.43
1:P:704:LYS:NZ	1:P:705:GLU:OE2	2.52	0.43
1:R:21:GLN:NE2	1:R:39:ASP:HB2	2.31	0.43
1:R:54:PRO:HB2	1:R:57:HIS:CE1	2.54	0.43
1:R:61:VAL:H	1:R:88:GLN:HE22	1.66	0.43
1:S:774:ARG:HA	1:S:777:LEU:HD13	1.99	0.43
1:S:814:GLY:HA2	1:S:815:PRO:HD3	1.89	0.43
1:W:704:LYS:NZ	1:W:705:GLU:OE2	2.52	0.43
1:Y:490:ASP:HB3	1:Y:491:PRO:HD2	2.01	0.43
1:Z:654:LEU:HD23	1:Z:654:LEU:HA	1.84	0.43
1:AA:660:LEU:O	1:AA:664:ILE:HG23	2.18	0.43
1:BA:731:GLU:OE1	1:BA:734:ARG:HG3	2.18	0.43
1:CA:37:ARG:HE	1:CA:42:ARG:HA	1.82	0.43
1:DA:72:SER:O	1:DA:74:LEU:HD12	2.18	0.43
1:DA:709:LEU:HA	1:DA:709:LEU:HD23	1.82	0.43
1:EA:37:ARG:HE	1:EA:42:ARG:HA	1.82	0.43
1:HA:537:LEU:HA	1:HA:645:PRO:HA	2.00	0.43
1:HA:660:LEU:O	1:HA:664:ILE:HG23	2.18	0.43
1:IA:72:SER:O	1:IA:74:LEU:HD12	2.18	0.43
1:IA:167:VAL:HG21	1:KA:192:THR:HG21	2.00	0.43
1:JA:8:ILE:HD11	1:JA:35:TYR:CD2	2.51	0.43
1:LA:21:GLN:NE2	1:LA:39:ASP:HB2	2.31	0.43
1:LA:490:ASP:HB3	1:LA:491:PRO:HD2	2.01	0.43
1:MA:490:ASP:HB3	1:MA:491:PRO:HD2	2.01	0.43
1:NA:391:GLN:HB2	1:NA:415:TRP:HB2	2.00	0.43
1:NA:537:LEU:HA	1:NA:645:PRO:HA	2.00	0.43
1:NA:714:MET:HA	1:NA:717:GLU:HB3	2.01	0.43
1:OA:61:VAL:H	1:OA:88:GLN:HE22	1.65	0.43
1:OA:714:MET:HA	1:OA:717:GLU:HB3	2.01	0.43
1:PA:174:LEU:HD11	1:PA:212:VAL:HG13	1.99	0.43
1:PA:391:GLN:HB2	1:PA:415:TRP:HB2	2.00	0.43
1:QA:686:GLY:O	1:QA:690:ARG:HG3	2.19	0.43
1:RA:8:ILE:HD11	1:RA:35:TYR:CD2	2.51	0.43
1:RA:595:SER:HB2	1:TA:580:ARG:HH12	1.82	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:SA:591:PHE:CD1	1:SA:598:ILE:HD11	2.42	0.43
1:SA:603:VAL:HG11	1:SA:638:VAL:HG21	2.01	0.43
1:TA:400:ALA:HB2	1:TA:491:PRO:HD3	1.99	0.43
1:TA:704:LYS:NZ	1:TA:705:GLU:OE2	2.52	0.43
1:UA:549:LEU:HD21	1:UA:561:LEU:HD21	1.99	0.43
1:VA:174:LEU:HD11	1:VA:212:VAL:HG13	1.99	0.43
1:YA:704:LYS:NZ	1:YA:705:GLU:OE2	2.52	0.43
1:ZA:490:ASP:HB3	1:ZA:491:PRO:HD2	2.01	0.43
1:ZA:599:ILE:O	1:ZA:603:VAL:HG23	2.18	0.43
1:ZA:704:LYS:NZ	1:ZA:705:GLU:OE2	2.52	0.43
1:ZA:706:LEU:HD23	1:BB:693:ILE:HG23	2.01	0.43
1:AB:65:VAL:HG12	1:AB:83:LEU:HD23	1.98	0.43
1:AB:387:GLY:HA3	1:AB:402:ILE:HG22	1.99	0.43
1:BB:714:MET:HA	1:BB:717:GLU:HB3	2.00	0.43
1:CB:537:LEU:HA	1:CB:645:PRO:HA	2.00	0.43
1:EB:686:GLY:O	1:EB:690:ARG:HG3	2.19	0.43
1:EB:731:GLU:OE1	1:EB:734:ARG:HG3	2.18	0.43
1:GB:521:ASP:OD1	1:GB:522:PHE:N	2.44	0.43
1:GB:537:LEU:HA	1:GB:645:PRO:HA	2.00	0.43
1:GB:654:LEU:HD23	1:GB:654:LEU:HA	1.84	0.43
1:GB:731:GLU:OE1	1:GB:734:ARG:HG3	2.18	0.43
1:HB:72:SER:O	1:HB:74:LEU:HD12	2.18	0.43
1:IB:588:PHE:HE2	1:JB:534:HIS:HE1	1.65	0.43
1:IB:596:ALA:HA	1:IB:599:ILE:HG22	1.99	0.43
1:IB:686:GLY:O	1:IB:690:ARG:HG3	2.19	0.43
1:JB:537:LEU:HA	1:JB:645:PRO:HA	2.00	0.43
1:JB:704:LYS:NZ	1:JB:705:GLU:OE2	2.52	0.43
1:LB:596:ALA:HA	1:LB:599:ILE:HG22	1.99	0.43
1:MB:400:ALA:HB2	1:MB:491:PRO:HD3	1.99	0.43
1:MB:594:ASN:HB3	1:MB:597:ARG:HD3	1.99	0.43
1:MB:764:LYS:HB3	1:NB:759:LEU:HD13	2.00	0.43
1:MB:795:PHE:HA	1:MB:798:MET:HB3	1.99	0.43
1:NB:72:SER:O	1:NB:74:LEU:HD12	2.18	0.43
1:NB:129:PHE:CG	1:NB:156:GLU:HG3	2.53	0.43
1:OB:117:PRO:HG2	1:PB:179:ARG:NH2	2.34	0.43
1:OB:490:ASP:HB3	1:OB:491:PRO:HD2	2.01	0.43
1:OB:686:GLY:O	1:OB:690:ARG:HG3	2.19	0.43
1:OB:795:PHE:HA	1:OB:798:MET:HB3	1.99	0.43
1:PB:704:LYS:NZ	1:PB:705:GLU:OE2	2.52	0.43
1:QB:704:LYS:NZ	1:QB:705:GLU:OE2	2.52	0.43
1:RB:279:ARG:HH22	1:SB:299:LYS:NZ	2.09	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:RB:490:ASP:N	1:RB:493:GLU:OE1	2.42	0.43
1:SB:54:PRO:HB2	1:SB:57:HIS:CE1	2.54	0.43
1:SB:400:ALA:HB2	1:SB:491:PRO:HD3	1.99	0.43
1:SB:490:ASP:HB3	1:SB:491:PRO:HD2	2.01	0.43
1:SB:521:ASP:OD1	1:SB:522:PHE:N	2.44	0.43
1:SB:704:LYS:NZ	1:SB:705:GLU:OE2	2.52	0.43
1:SB:717:GLU:HG3	1:TB:707:LEU:HD22	2.00	0.43
1:TB:599:ILE:O	1:TB:603:VAL:HG23	2.18	0.43
1:UB:795:PHE:HA	1:UB:798:MET:HB3	2.00	0.43
1:VB:731:GLU:OE1	1:VB:734:ARG:HG3	2.18	0.43
1:WB:218:ALA:HA	1:WB:260:VAL:HA	2.00	0.43
1:WB:522:PHE:CD2	1:XB:573:LYS:HE2	2.52	0.43
1:XB:490:ASP:HB3	1:XB:491:PRO:HD2	2.01	0.43
1:XB:686:GLY:O	1:XB:690:ARG:HG3	2.19	0.43
1:YB:799:THR:HA	1:YB:802:LEU:HD12	1.99	0.43
1:ZB:400:ALA:HB2	1:ZB:491:PRO:HD3	2.00	0.43
1:ZB:591:PHE:CD1	1:ZB:598:ILE:HD11	2.42	0.43
1:ZB:704:LYS:NZ	1:ZB:705:GLU:OE2	2.52	0.43
1:AC:54:PRO:HB2	1:AC:57:HIS:CE1	2.54	0.43
1:AC:391:GLN:HB2	1:AC:415:TRP:HB2	2.00	0.43
1:AC:704:LYS:NZ	1:AC:705:GLU:OE2	2.52	0.43
1:A:54:PRO:HB2	1:A:57:HIS:CE1	2.54	0.43
1:A:732:ALA:CB	1:C:722:ALA:O	2.63	0.43
1:B:785:GLN:CD	1:AC:793:LYS:NZ	2.69	0.43
1:C:129:PHE:CG	1:C:156:GLU:HG3	2.53	0.43
1:D:49:ARG:HE	1:F:85:HIS:CG	2.33	0.43
1:D:325:VAL:HG21	1:F:337:LEU:C	2.36	0.43
1:E:686:GLY:O	1:E:690:ARG:HG3	2.19	0.43
1:F:714:MET:HA	1:F:717:GLU:HB3	2.01	0.43
1:F:814:GLY:HA2	1:F:815:PRO:HD3	1.89	0.43
1:G:244:ARG:HD3	1:G:244:ARG:HA	1.85	0.43
1:G:714:MET:HA	1:G:717:GLU:HB3	2.01	0.43
1:G:731:GLU:OE1	1:G:734:ARG:HG3	2.18	0.43
1:H:391:GLN:HB2	1:H:415:TRP:HB2	2.00	0.43
1:I:686:GLY:O	1:I:690:ARG:HG3	2.19	0.43
1:I:795:PHE:HA	1:I:798:MET:HB3	1.99	0.43
1:K:599:ILE:O	1:K:603:VAL:HG23	2.18	0.43
1:L:54:PRO:HB2	1:L:57:HIS:CE1	2.54	0.43
1:L:129:PHE:CG	1:L:156:GLU:HG3	2.53	0.43
1:L:174:LEU:HD11	1:L:212:VAL:HG13	1.99	0.43
1:L:813:ALA:HB2	1:N:811:ALA:CB	2.48	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:218:ALA:HA	1:M:260:VAL:HA	2.00	0.43
1:M:664:ILE:HG13	1:M:665:THR:N	2.32	0.43
1:M:795:PHE:HA	1:M:798:MET:HB3	2.00	0.43
1:N:549:LEU:HD21	1:N:561:LEU:HD21	1.99	0.43
1:N:599:ILE:O	1:N:603:VAL:HG23	2.18	0.43
1:N:704:LYS:NZ	1:N:705:GLU:OE2	2.52	0.43
1:O:714:MET:HA	1:O:717:GLU:HB3	2.00	0.43
1:P:599:ILE:O	1:P:603:VAL:HG23	2.18	0.43
1:Q:521:ASP:OD1	1:Q:522:PHE:N	2.44	0.43
1:R:244:ARG:HD3	1:R:244:ARG:HA	1.85	0.43
1:T:54:PRO:HB2	1:T:57:HIS:CE1	2.54	0.43
1:T:599:ILE:O	1:T:603:VAL:HG23	2.18	0.43
1:V:714:MET:HA	1:V:717:GLU:HB3	2.01	0.43
1:W:299:LYS:NZ	1:W:317:GLU:OE2	2.32	0.43
1:X:704:LYS:NZ	1:X:705:GLU:OE2	2.52	0.43
1:Y:521:ASP:OD1	1:Y:522:PHE:N	2.44	0.43
1:Y:686:GLY:O	1:Y:690:ARG:HG3	2.19	0.43
1:Y:731:GLU:OE1	1:Y:734:ARG:HG3	2.18	0.43
1:Z:72:SER:O	1:Z:74:LEU:HD12	2.18	0.43
1:Z:805:GLY:HA2	1:Z:808:ARG:NE	2.32	0.43
1:AA:73:VAL:HG11	1:AA:100:TYR:CZ	2.54	0.43
1:AA:490:ASP:N	1:AA:493:GLU:OE1	2.43	0.43
1:AA:686:GLY:O	1:AA:690:ARG:HG3	2.19	0.43
1:BA:286:ASP:OD1	1:BA:297:GLY:N	2.47	0.43
1:CA:61:VAL:H	1:CA:88:GLN:HE22	1.65	0.43
1:CA:664:ILE:HG13	1:CA:665:THR:N	2.33	0.43
1:DA:686:GLY:O	1:DA:690:ARG:HG3	2.19	0.43
1:GA:13:TYR:HB2	1:GA:49:ARG:HH22	1.84	0.43
1:GA:129:PHE:CG	1:GA:156:GLU:HG3	2.53	0.43
1:GA:599:ILE:O	1:GA:603:VAL:HG23	2.18	0.43
1:GA:603:VAL:HG11	1:GA:638:VAL:HG21	2.01	0.43
1:HA:37:ARG:HE	1:HA:42:ARG:HA	1.82	0.43
1:IA:61:VAL:H	1:IA:88:GLN:HE22	1.66	0.43
1:IA:686:GLY:O	1:IA:690:ARG:HG3	2.19	0.43
1:IA:774:ARG:HA	1:IA:777:LEU:HD13	1.99	0.43
1:JA:795:PHE:HA	1:JA:798:MET:HB3	1.99	0.43
1:KA:218:ALA:HA	1:KA:260:VAL:HA	2.00	0.43
1:LA:218:ALA:HA	1:LA:260:VAL:HA	2.00	0.43
1:MA:129:PHE:CG	1:MA:156:GLU:HG3	2.53	0.43
1:MA:400:ALA:HB2	1:MA:491:PRO:HD3	1.99	0.43
1:NA:299:LYS:NZ	1:NA:317:GLU:OE2	2.32	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:OA:521:ASP:OD1	1:OA:522:PHE:N	2.44	0.43
1:OA:599:ILE:O	1:OA:603:VAL:HG23	2.18	0.43
1:PA:799:THR:HA	1:PA:802:LEU:HD12	1.99	0.43
1:QA:61:VAL:H	1:QA:88:GLN:HE22	1.65	0.43
1:QA:218:ALA:HA	1:QA:260:VAL:HA	2.00	0.43
1:QA:490:ASP:HB3	1:QA:491:PRO:HD2	2.01	0.43
1:QA:795:PHE:HA	1:QA:798:MET:HB3	1.99	0.43
1:RA:244:ARG:HD3	1:RA:244:ARG:HA	1.85	0.43
1:SA:13:TYR:HB2	1:SA:49:ARG:HH22	1.84	0.43
1:SA:400:ALA:HB2	1:SA:491:PRO:HD3	2.00	0.43
1:TA:686:GLY:O	1:TA:690:ARG:HG3	2.19	0.43
1:UA:61:VAL:H	1:UA:88:GLN:HE22	1.66	0.43
1:UA:244:ARG:HD3	1:UA:244:ARG:HA	1.85	0.43
1:UA:490:ASP:HB3	1:UA:491:PRO:HD2	2.01	0.43
1:VA:686:GLY:O	1:VA:690:ARG:HG3	2.19	0.43
1:WA:129:PHE:CG	1:WA:156:GLU:HG3	2.53	0.43
1:WA:686:GLY:O	1:WA:690:ARG:HG3	2.19	0.43
1:ZA:236:LYS:HB2	1:ZA:236:LYS:HE3	1.77	0.43
1:ZA:521:ASP:OD1	1:ZA:522:PHE:N	2.44	0.43
1:AB:72:SER:O	1:AB:74:LEU:HD12	2.18	0.43
1:AB:686:GLY:O	1:AB:690:ARG:HG3	2.19	0.43
1:BB:707:LEU:HD23	1:BB:707:LEU:HA	1.74	0.43
1:CB:490:ASP:HB3	1:CB:491:PRO:HD2	2.01	0.43
1:CB:714:MET:HA	1:CB:717:GLU:HB3	2.01	0.43
1:DB:795:PHE:HA	1:DB:798:MET:HB3	2.00	0.43
1:EB:13:TYR:HB2	1:EB:49:ARG:HH22	1.84	0.43
1:EB:72:SER:O	1:EB:74:LEU:HD12	2.18	0.43
1:EB:123:LEU:HD23	1:EB:123:LEU:HA	1.93	0.43
1:GB:406:TYR:HH	1:GB:412:GLU:CD	2.22	0.43
1:GB:704:LYS:NZ	1:GB:705:GLU:OE2	2.52	0.43
1:HB:490:ASP:HB3	1:HB:491:PRO:HD2	2.01	0.43
1:JB:73:VAL:HG11	1:JB:100:TYR:CZ	2.54	0.43
1:KB:129:PHE:CG	1:KB:156:GLU:HG3	2.53	0.43
1:LB:712:MET:SD	1:MB:704:LYS:CD	3.04	0.43
1:LB:774:ARG:HA	1:LB:777:LEU:HD13	1.99	0.43
1:MB:707:LEU:HA	1:MB:707:LEU:HD23	1.74	0.43
1:MB:768:MET:CE	1:NB:762:VAL:HG23	2.48	0.43
1:NB:54:PRO:HB2	1:NB:57:HIS:CE1	2.54	0.43
1:NB:599:ILE:O	1:NB:603:VAL:HG23	2.18	0.43
1:OB:54:PRO:HB2	1:OB:57:HIS:CE1	2.54	0.43
1:PB:244:ARG:HD3	1:PB:244:ARG:HA	1.85	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:QB:490:ASP:HB3	1:QB:491:PRO:HD2	2.01	0.43
1:QB:795:PHE:HA	1:QB:798:MET:HB3	2.00	0.43
1:RB:54:PRO:HB2	1:RB:57:HIS:CE1	2.54	0.43
1:RB:204:TYR:OH	1:RB:210:GLU:OE2	2.30	0.43
1:RB:391:GLN:HB2	1:RB:415:TRP:HB2	2.00	0.43
1:RB:686:GLY:O	1:RB:690:ARG:HG3	2.19	0.43
1:RB:714:MET:HA	1:RB:717:GLU:HB3	2.00	0.43
1:SB:591:PHE:CD1	1:SB:598:ILE:HD11	2.42	0.43
1:TB:54:PRO:HB2	1:TB:57:HIS:CE1	2.54	0.43
1:UB:218:ALA:HA	1:UB:260:VAL:HA	2.00	0.43
1:VB:387:GLY:HA3	1:VB:402:ILE:HG22	1.99	0.43
1:WB:61:VAL:H	1:WB:88:GLN:HE22	1.65	0.43
1:WB:587:THR:HG1	1:WB:588:PHE:H	1.67	0.43
1:XB:61:VAL:H	1:XB:88:GLN:HE22	1.66	0.43
1:YB:136:LYS:HA	1:YB:136:LYS:HD2	1.86	0.43
1:YB:686:GLY:O	1:YB:690:ARG:HG3	2.19	0.43
1:YB:704:LYS:NZ	1:YB:705:GLU:OE2	2.52	0.43
1:YB:795:PHE:HA	1:YB:798:MET:HB3	1.99	0.43
1:AC:129:PHE:CG	1:AC:156:GLU:HG3	2.53	0.43
1:AC:594:ASN:HB3	1:AC:597:ARG:HD3	1.99	0.43
1:A:707:LEU:HD13	1:NB:717:GLU:CG	2.47	0.43
1:A:715:ALA:CA	1:NB:724:ALA:HA	2.49	0.43
1:B:534:HIS:CE1	1:AC:657:SER:OG	2.71	0.43
1:C:13:TYR:HB2	1:C:49:ARG:HH22	1.84	0.43
1:C:73:VAL:HG11	1:C:100:TYR:CZ	2.54	0.43
1:C:218:ALA:HA	1:C:260:VAL:HA	2.00	0.43
1:D:61:VAL:H	1:D:88:GLN:HE22	1.65	0.43
1:D:362:PRO:CA	1:F:352:GLN:HG3	2.45	0.43
1:F:244:ARG:HD3	1:F:244:ARG:HA	1.85	0.43
1:H:61:VAL:H	1:H:88:GLN:HE22	1.66	0.43
1:I:286:ASP:OD1	1:I:297:GLY:N	2.47	0.43
1:K:54:PRO:HB2	1:K:57:HIS:CE1	2.54	0.43
1:K:129:PHE:CG	1:K:156:GLU:HG3	2.53	0.43
1:K:664:ILE:HG13	1:K:665:THR:N	2.33	0.43
1:K:714:MET:HA	1:K:717:GLU:HB3	2.00	0.43
1:L:587:THR:HG1	1:L:588:PHE:H	1.65	0.43
1:M:587:THR:HG1	1:M:588:PHE:H	1.65	0.43
1:M:599:ILE:O	1:M:603:VAL:HG23	2.18	0.43
1:O:57:HIS:HB3	1:O:109:ILE:HD11	1.99	0.43
1:O:61:VAL:H	1:O:88:GLN:HE22	1.66	0.43
1:P:54:PRO:HB2	1:P:57:HIS:CE1	2.54	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:P:651:ARG:C	1:P:653:ALA:H	2.17	0.43
1:Q:73:VAL:HG11	1:Q:100:TYR:CZ	2.54	0.43
1:Q:129:PHE:CG	1:Q:156:GLU:HG3	2.53	0.43
1:Q:400:ALA:HB2	1:Q:491:PRO:HD3	2.00	0.43
1:Q:704:LYS:NZ	1:Q:705:GLU:OE2	2.52	0.43
1:R:686:GLY:O	1:R:690:ARG:HG3	2.19	0.43
1:T:13:TYR:HB2	1:T:49:ARG:HH22	1.84	0.43
1:T:21:GLN:NE2	1:T:39:ASP:HB2	2.31	0.43
1:W:54:PRO:HB2	1:W:57:HIS:CE1	2.54	0.43
1:W:660:LEU:O	1:W:664:ILE:HG23	2.18	0.43
1:X:709:LEU:HA	1:X:709:LEU:HD23	1.82	0.43
1:Y:174:LEU:HD11	1:Y:212:VAL:HG13	1.99	0.43
1:Y:218:ALA:HA	1:Y:260:VAL:HA	2.00	0.43
1:AA:391:GLN:HB2	1:AA:415:TRP:HB2	2.00	0.43
1:AA:654:LEU:HD23	1:AA:654:LEU:HA	1.84	0.43
1:BA:549:LEU:HD21	1:BA:561:LEU:HD21	1.99	0.43
1:CA:129:PHE:CG	1:CA:156:GLU:HG3	2.53	0.43
1:CA:599:ILE:O	1:CA:603:VAL:HG23	2.18	0.43
1:DA:391:GLN:HB2	1:DA:415:TRP:HB2	2.00	0.43
1:EA:13:TYR:HB2	1:EA:49:ARG:HH22	1.84	0.43
1:FA:129:PHE:CE1	1:FA:137:VAL:HG11	2.54	0.43
1:FA:731:GLU:OE1	1:FA:734:ARG:HG3	2.18	0.43
1:GA:490:ASP:HB3	1:GA:491:PRO:HD2	2.01	0.43
1:GA:660:LEU:O	1:GA:664:ILE:HG23	2.18	0.43
1:HA:774:ARG:HA	1:HA:777:LEU:HD13	1.99	0.43
1:IA:704:LYS:NZ	1:IA:705:GLU:OE2	2.52	0.43
1:JA:61:VAL:H	1:JA:88:GLN:HE22	1.65	0.43
1:JA:660:LEU:O	1:JA:664:ILE:HG23	2.18	0.43
1:JA:714:MET:HA	1:JA:717:GLU:HB3	2.01	0.43
1:KA:737:GLY:O	1:KA:741:VAL:HG23	2.17	0.43
1:MA:174:LEU:HD11	1:MA:212:VAL:HG13	2.00	0.43
1:MA:218:ALA:HA	1:MA:260:VAL:HA	2.00	0.43
1:OA:686:GLY:O	1:OA:690:ARG:HG3	2.19	0.43
1:OA:704:LYS:NZ	1:OA:705:GLU:OE2	2.52	0.43
1:PA:490:ASP:HB3	1:PA:491:PRO:HD2	2.01	0.43
1:QA:13:TYR:HB2	1:QA:49:ARG:HH22	1.84	0.43
1:QA:714:MET:HA	1:QA:717:GLU:HB3	2.01	0.43
1:QA:774:ARG:HA	1:QA:777:LEU:HD13	1.99	0.43
1:RA:72:SER:O	1:RA:74:LEU:HD12	2.18	0.43
1:RA:391:GLN:HB2	1:RA:415:TRP:HB2	2.00	0.43
1:RA:587:THR:HG1	1:RA:588:PHE:H	1.65	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:SA:72:SER:O	1:SA:74:LEU:HD12	2.18	0.43
1:SA:717:GLU:HB2	1:UA:707:LEU:HD13	2.01	0.43
1:TA:13:TYR:HB2	1:TA:49:ARG:HH22	1.84	0.43
1:VA:490:ASP:N	1:VA:493:GLU:OE1	2.43	0.43
1:VA:537:LEU:HA	1:VA:645:PRO:HA	2.00	0.43
1:VA:660:LEU:O	1:VA:664:ILE:HG23	2.18	0.43
1:WA:490:ASP:HB3	1:WA:491:PRO:HD2	2.01	0.43
1:YA:286:ASP:OD1	1:YA:297:GLY:N	2.47	0.43
1:ZA:603:VAL:HG11	1:ZA:638:VAL:HG21	2.01	0.43
1:ZA:660:LEU:O	1:ZA:664:ILE:HG23	2.18	0.43
1:AB:54:PRO:HB2	1:AB:57:HIS:CE1	2.54	0.43
1:AB:129:PHE:CG	1:AB:156:GLU:HG3	2.53	0.43
1:AB:490:ASP:HB3	1:AB:491:PRO:HD2	2.01	0.43
1:AB:664:ILE:HG13	1:AB:665:THR:N	2.32	0.43
1:BB:654:LEU:HD23	1:BB:654:LEU:HA	1.84	0.43
1:CB:61:VAL:H	1:CB:88:GLN:HE22	1.66	0.43
1:CB:72:SER:O	1:CB:74:LEU:HD12	2.18	0.43
1:CB:73:VAL:HG11	1:CB:100:TYR:CZ	2.54	0.43
1:EB:714:MET:HA	1:EB:717:GLU:HB3	2.01	0.43
1:FB:13:TYR:HB2	1:FB:49:ARG:HH22	1.84	0.43
1:FB:391:GLN:HB2	1:FB:415:TRP:HB2	2.00	0.43
1:HB:28:VAL:HG21	1:HB:98:PRO:HB2	1.99	0.43
1:IB:73:VAL:HG11	1:IB:100:TYR:CZ	2.54	0.43
1:IB:603:VAL:HG11	1:IB:638:VAL:HG21	2.01	0.43
1:IB:706:LEU:HD21	1:JB:697:SER:OG	2.19	0.43
1:JB:13:TYR:HB2	1:JB:49:ARG:HH22	1.84	0.43
1:JB:236:LYS:HE3	1:JB:236:LYS:HB2	1.77	0.43
1:LB:384:GLN:HB2	1:MB:474:ARG:CG	2.46	0.43
1:LB:603:VAL:HG11	1:LB:638:VAL:HG21	2.01	0.43
1:MB:57:HIS:HB3	1:MB:109:ILE:HD11	1.99	0.43
1:MB:704:LYS:NZ	1:MB:705:GLU:OE2	2.52	0.43
1:OB:806:THR:HG21	1:PB:804:PRO:HA	2.01	0.43
1:PB:54:PRO:HB2	1:PB:57:HIS:CE1	2.54	0.43
1:PB:129:PHE:CG	1:PB:156:GLU:HG3	2.53	0.43
1:PB:490:ASP:HB3	1:PB:491:PRO:HD2	2.01	0.43
1:QB:54:PRO:HB2	1:QB:57:HIS:CE1	2.54	0.43
1:QB:72:SER:O	1:QB:74:LEU:HD12	2.18	0.43
1:RB:8:ILE:HD11	1:RB:35:TYR:CD2	2.51	0.43
1:RB:72:SER:O	1:RB:74:LEU:HD12	2.18	0.43
1:SB:603:VAL:HG11	1:SB:638:VAL:HG21	2.01	0.43
1:SB:728:SER:CB	1:TB:719:THR:HA	2.48	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:TB:72:SER:O	1:TB:74:LEU:HD12	2.18	0.43
1:UB:54:PRO:HB2	1:UB:57:HIS:CE1	2.54	0.43
1:UB:73:VAL:HG11	1:UB:100:TYR:CZ	2.54	0.43
1:UB:537:LEU:HA	1:UB:645:PRO:HA	2.00	0.43
1:VB:490:ASP:HB3	1:VB:491:PRO:HD2	2.01	0.43
1:VB:490:ASP:N	1:VB:493:GLU:OE1	2.43	0.43
1:WB:814:GLY:HA2	1:WB:815:PRO:HD3	1.89	0.43
1:ZB:603:VAL:HG11	1:ZB:638:VAL:HG21	2.01	0.43
1:AC:506:LYS:HD3	1:AC:506:LYS:HA	1.81	0.43
1:A:710:GLU:HA	1:C:700:GLU:OE1	2.18	0.43
1:B:129:PHE:CE1	1:B:137:VAL:HG11	2.54	0.43
1:C:54:PRO:HB2	1:C:57:HIS:CE1	2.54	0.43
1:C:521:ASP:OD1	1:C:522:PHE:N	2.44	0.43
1:C:790:VAL:CG1	1:E:784:ALA:C	2.87	0.43
1:D:400:ALA:HB2	1:D:491:PRO:HD3	2.00	0.43
1:D:795:PHE:HA	1:D:798:MET:HB3	2.00	0.43
1:E:490:ASP:HB3	1:E:491:PRO:HD2	2.01	0.43
1:F:21:GLN:NE2	1:F:39:ASP:HB2	2.31	0.43
1:F:73:VAL:HG11	1:F:100:TYR:CZ	2.54	0.43
1:F:391:GLN:HB2	1:F:415:TRP:HB2	2.00	0.43
1:F:394:LYS:HE3	1:F:394:LYS:HB2	1.87	0.43
1:G:73:VAL:HG11	1:G:100:TYR:CZ	2.54	0.43
1:G:91:ARG:NH1	1:G:94:GLN:OE1	2.39	0.43
1:J:54:PRO:HB2	1:J:57:HIS:CE1	2.54	0.43
1:J:129:PHE:CE1	1:J:137:VAL:HG11	2.54	0.43
1:L:37:ARG:HE	1:L:42:ARG:HA	1.82	0.43
1:L:73:VAL:HG11	1:L:100:TYR:CZ	2.54	0.43
1:M:13:TYR:HB2	1:M:49:ARG:HH22	1.84	0.43
1:M:54:PRO:HB2	1:M:57:HIS:CE1	2.54	0.43
1:M:490:ASP:HB3	1:M:491:PRO:HD2	2.01	0.43
1:M:758:GLU:HA	1:M:761:ARG:HB3	2.01	0.43
1:N:129:PHE:CE1	1:N:137:VAL:HG11	2.54	0.43
1:N:129:PHE:CG	1:N:156:GLU:HG3	2.53	0.43
1:N:742:LEU:HD12	1:N:742:LEU:HA	1.86	0.43
1:O:54:PRO:HB2	1:O:57:HIS:CE1	2.54	0.43
1:O:651:ARG:C	1:O:653:ALA:H	2.17	0.43
1:P:537:LEU:HA	1:P:645:PRO:HA	2.00	0.43
1:R:72:SER:O	1:R:74:LEU:HD12	2.18	0.43
1:S:490:ASP:HB3	1:S:491:PRO:HD2	2.01	0.43
1:S:731:GLU:OE1	1:S:734:ARG:HG3	2.18	0.43
1:V:61:VAL:H	1:V:88:GLN:HE22	1.66	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:V:603:VAL:HG11	1:V:638:VAL:HG21	2.01	0.43
1:W:774:ARG:HA	1:W:777:LEU:HD13	1.99	0.43
1:Y:286:ASP:OD1	1:Y:297:GLY:N	2.47	0.43
1:Y:599:ILE:O	1:Y:603:VAL:HG23	2.18	0.43
1:Y:714:MET:HA	1:Y:717:GLU:HB3	2.01	0.43
1:AA:218:ALA:HA	1:AA:260:VAL:HA	2.00	0.43
1:AA:400:ALA:HB2	1:AA:491:PRO:HD3	1.99	0.43
1:AA:795:PHE:HA	1:AA:798:MET:HB3	2.00	0.43
1:BA:490:ASP:HB3	1:BA:491:PRO:HD2	2.01	0.43
1:CA:686:GLY:O	1:CA:690:ARG:HG3	2.19	0.43
1:CA:720:GLY:HA3	1:EA:711:ALA:HB1	1.99	0.43
1:EA:686:GLY:O	1:EA:690:ARG:HG3	2.19	0.43
1:GA:174:LEU:HD11	1:GA:212:VAL:HG13	2.00	0.43
1:GA:218:ALA:HA	1:GA:260:VAL:HA	2.00	0.43
1:GA:704:LYS:NZ	1:GA:705:GLU:OE2	2.52	0.43
1:IA:537:LEU:HA	1:IA:645:PRO:HA	2.00	0.43
1:IA:655:GLN:NE2	1:KA:647:ASP:CG	2.72	0.43
1:JA:799:THR:HA	1:JA:802:LEU:HD12	1.99	0.43
1:KA:8:ILE:HD11	1:KA:35:TYR:CD2	2.51	0.43
1:KA:73:VAL:HG11	1:KA:100:TYR:CZ	2.54	0.43
1:KA:129:PHE:CE1	1:KA:137:VAL:HG11	2.54	0.43
1:KA:686:GLY:O	1:KA:690:ARG:HG3	2.19	0.43
1:KA:714:MET:HA	1:KA:717:GLU:HB3	2.01	0.43
1:PA:714:MET:HA	1:PA:717:GLU:HB3	2.01	0.43
1:RA:129:PHE:CG	1:RA:156:GLU:HG3	2.53	0.43
1:SA:549:LEU:HD21	1:SA:561:LEU:HD21	1.99	0.43
1:SA:651:ARG:C	1:SA:653:ALA:H	2.17	0.43
1:UA:686:GLY:O	1:UA:690:ARG:HG3	2.19	0.43
1:VA:72:SER:O	1:VA:74:LEU:HD12	2.18	0.43
1:XA:13:TYR:HB2	1:XA:49:ARG:HH22	1.84	0.43
1:YA:54:PRO:HB2	1:YA:57:HIS:CE1	2.54	0.43
1:AB:73:VAL:HG11	1:AB:100:TYR:CZ	2.54	0.43
1:FB:129:PHE:CE1	1:FB:137:VAL:HG11	2.54	0.43
1:IB:490:ASP:HB3	1:IB:491:PRO:HD2	2.01	0.43
1:IB:799:THR:HA	1:IB:802:LEU:HD12	1.99	0.43
1:JB:490:ASP:HB3	1:JB:491:PRO:HD2	2.01	0.43
1:KB:686:GLY:O	1:KB:690:ARG:HG3	2.19	0.43
1:LB:13:TYR:HB2	1:LB:49:ARG:HH22	1.84	0.43
1:LB:72:SER:O	1:LB:74:LEU:HD12	2.18	0.43
1:LB:129:PHE:CG	1:LB:156:GLU:HG3	2.53	0.43
1:LB:712:MET:HE3	1:MB:704:LYS:CE	2.49	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:MB:13:TYR:HB2	1:MB:49:ARG:HH22	1.84	0.43
1:MB:244:ARG:HD3	1:MB:244:ARG:HA	1.85	0.43
1:MB:603:VAL:HG11	1:MB:638:VAL:HG21	2.01	0.43
1:MB:658:VAL:HG22	1:NB:534:HIS:HB2	2.01	0.43
1:MB:739:GLY:O	1:NB:734:ARG:NH2	2.52	0.43
1:MB:757:ALA:HB1	1:NB:748:ALA:C	2.39	0.43
1:OB:464:HIS:HD2	1:PB:469:GLN:CD	2.22	0.43
1:OB:603:VAL:HG11	1:OB:638:VAL:HG21	2.01	0.43
1:OB:714:MET:HA	1:OB:717:GLU:HB3	2.01	0.43
1:PB:73:VAL:HG11	1:PB:100:TYR:CZ	2.54	0.43
1:PB:129:PHE:CE1	1:PB:137:VAL:HG11	2.54	0.43
1:PB:174:LEU:HD12	1:PB:174:LEU:HA	1.92	0.43
1:QB:599:ILE:O	1:QB:603:VAL:HG23	2.18	0.43
1:QB:651:ARG:C	1:QB:653:ALA:H	2.17	0.43
1:RB:537:LEU:HA	1:RB:645:PRO:HA	2.00	0.43
1:SB:490:ASP:N	1:SB:493:GLU:OE1	2.43	0.43
1:SB:537:LEU:HA	1:SB:645:PRO:HA	2.00	0.43
1:UB:286:ASP:OD1	1:UB:297:GLY:N	2.47	0.43
1:UB:310:LEU:HD23	1:UB:310:LEU:HA	1.92	0.43
1:VB:13:TYR:HB2	1:VB:49:ARG:HH22	1.84	0.43
1:VB:394:LYS:HE3	1:VB:394:LYS:HB2	1.87	0.43
1:VB:704:LYS:NZ	1:VB:705:GLU:OE2	2.52	0.43
1:WB:603:VAL:HG11	1:WB:638:VAL:HG21	2.01	0.43
1:XB:224:LYS:HG3	1:YB:296:LEU:HD21	2.01	0.43
1:ZB:13:TYR:HB2	1:ZB:49:ARG:HH22	1.84	0.43
1:ZB:285:LEU:N	1:ZB:315:ARG:O	2.41	0.43
1:ZB:599:ILE:O	1:ZB:603:VAL:HG23	2.18	0.43
1:AC:660:LEU:O	1:AC:664:ILE:HG23	2.18	0.43
1:A:537:LEU:HA	1:A:645:PRO:HA	2.00	0.43
1:B:490:ASP:HB3	1:B:491:PRO:HD2	2.01	0.43
1:B:704:LYS:NZ	1:B:705:GLU:OE2	2.52	0.43
1:B:714:MET:HA	1:B:717:GLU:HB3	2.01	0.43
1:C:129:PHE:CE1	1:C:137:VAL:HG11	2.54	0.43
1:C:774:ARG:HA	1:C:777:LEU:HD13	1.99	0.43
1:D:129:PHE:CD1	1:D:156:GLU:HG3	2.54	0.43
1:D:363:LEU:HA	1:F:352:GLN:HE21	1.84	0.43
1:D:686:GLY:O	1:D:690:ARG:HG3	2.19	0.43
1:E:704:LYS:NZ	1:E:705:GLU:OE2	2.52	0.43
1:G:758:GLU:HA	1:G:761:ARG:HB3	2.01	0.43
1:I:129:PHE:CE1	1:I:137:VAL:HG11	2.54	0.43
1:L:13:TYR:HB2	1:L:49:ARG:HH22	1.84	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:174:LEU:HD11	1:M:212:VAL:HG13	1.99	0.43
1:O:603:VAL:HG11	1:O:638:VAL:HG21	2.01	0.43
1:O:704:LYS:NZ	1:O:705:GLU:OE2	2.52	0.43
1:P:774:ARG:HA	1:P:777:LEU:HD13	1.99	0.43
1:Q:54:PRO:HB2	1:Q:57:HIS:CE1	2.54	0.43
1:Q:218:ALA:HA	1:Q:260:VAL:HA	2.00	0.43
1:Q:592:HIS:HA	1:Q:595:SER:HG	1.84	0.43
1:Q:686:GLY:O	1:Q:690:ARG:HG3	2.19	0.43
1:R:13:TYR:HB2	1:R:49:ARG:HH22	1.84	0.43
1:R:123:LEU:HD23	1:R:123:LEU:HA	1.93	0.43
1:R:490:ASP:HB3	1:R:491:PRO:HD2	2.01	0.43
1:R:537:LEU:HA	1:R:645:PRO:HA	2.00	0.43
1:R:795:PHE:HA	1:R:798:MET:HB3	2.00	0.43
1:R:799:THR:HA	1:R:802:LEU:HD12	1.99	0.43
1:W:686:GLY:O	1:W:690:ARG:HG3	2.19	0.43
1:Y:73:VAL:HG11	1:Y:100:TYR:CZ	2.54	0.43
1:Y:391:GLN:HB2	1:Y:415:TRP:HB2	2.00	0.43
1:Y:660:LEU:O	1:Y:664:ILE:HG23	2.18	0.43
1:Z:129:PHE:CE1	1:Z:137:VAL:HG11	2.54	0.43
1:Z:686:GLY:O	1:Z:690:ARG:HG3	2.19	0.43
1:Z:704:LYS:NZ	1:Z:705:GLU:OE2	2.52	0.43
1:Z:706:LEU:HD21	1:BA:693:ILE:HG23	2.01	0.43
1:BA:73:VAL:HG11	1:BA:100:TYR:CZ	2.54	0.43
1:BA:603:VAL:HG11	1:BA:638:VAL:HG21	2.01	0.43
1:CA:490:ASP:N	1:CA:493:GLU:OE1	2.43	0.43
1:DA:73:VAL:HG11	1:DA:100:TYR:CZ	2.54	0.43
1:GA:686:GLY:O	1:GA:690:ARG:HG3	2.19	0.43
1:JA:174:LEU:HD11	1:JA:212:VAL:HG13	1.99	0.43
1:JA:218:ALA:HA	1:JA:260:VAL:HA	2.00	0.43
1:JA:391:GLN:HB2	1:JA:415:TRP:HB2	2.00	0.43
1:LA:72:SER:O	1:LA:74:LEU:HD12	2.18	0.43
1:MA:37:ARG:HE	1:MA:42:ARG:HA	1.82	0.43
1:MA:73:VAL:HG11	1:MA:100:TYR:CZ	2.54	0.43
1:OA:129:PHE:CG	1:OA:156:GLU:HG3	2.53	0.43
1:PA:136:LYS:HD2	1:PA:136:LYS:HA	1.86	0.43
1:PA:742:LEU:HD12	1:PA:742:LEU:HA	1.86	0.43
1:QA:72:SER:O	1:QA:74:LEU:HD12	2.18	0.43
1:RA:13:TYR:HB2	1:RA:49:ARG:HH22	1.84	0.43
1:RA:591:PHE:CD1	1:RA:598:ILE:HD11	2.42	0.43
1:RA:814:GLY:HA2	1:RA:815:PRO:HD3	1.89	0.43
1:SA:174:LEU:HD11	1:SA:212:VAL:HG13	1.99	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:TA:286:ASP:OD1	1:TA:297:GLY:N	2.47	0.43
1:UA:13:TYR:HB2	1:UA:49:ARG:HH22	1.84	0.43
1:UA:73:VAL:HG11	1:UA:100:TYR:CZ	2.54	0.43
1:UA:391:GLN:HB2	1:UA:415:TRP:HB2	2.00	0.43
1:UA:795:PHE:HA	1:UA:798:MET:HB3	1.99	0.43
1:WA:54:PRO:HB2	1:WA:57:HIS:CE1	2.54	0.43
1:WA:129:PHE:CE1	1:WA:137:VAL:HG11	2.54	0.43
1:XA:8:ILE:HD11	1:XA:35:TYR:CD2	2.51	0.43
1:XA:704:LYS:NZ	1:XA:705:GLU:OE2	2.52	0.43
1:YA:400:ALA:HB2	1:YA:491:PRO:HD3	2.00	0.43
1:YA:490:ASP:HB3	1:YA:491:PRO:HD2	2.01	0.43
1:BB:73:VAL:HG11	1:BB:100:TYR:CZ	2.54	0.43
1:BB:391:GLN:HB2	1:BB:415:TRP:HB2	2.00	0.43
1:CB:595:SER:HB2	1:DB:580:ARG:HH12	1.83	0.43
1:EB:490:ASP:N	1:EB:493:GLU:OE1	2.43	0.43
1:EB:704:LYS:NZ	1:EB:705:GLU:OE2	2.52	0.43
1:FB:174:LEU:HD11	1:FB:212:VAL:HG13	1.99	0.43
1:FB:596:ALA:HA	1:FB:599:ILE:HG22	1.99	0.43
1:FB:686:GLY:O	1:FB:690:ARG:HG3	2.19	0.43
1:GB:603:VAL:HG11	1:GB:638:VAL:HG21	2.01	0.43
1:GB:717:GLU:HG3	1:HB:707:LEU:HD13	2.00	0.43
1:HB:506:LYS:HD3	1:HB:506:LYS:HA	1.81	0.43
1:IB:174:LEU:HD11	1:IB:212:VAL:HG13	2.00	0.43
1:IB:236:LYS:HE3	1:IB:236:LYS:HB2	1.77	0.43
1:IB:391:GLN:HB2	1:IB:415:TRP:HB2	2.00	0.43
1:IB:521:ASP:OD1	1:IB:522:PHE:N	2.44	0.43
1:JB:391:GLN:HB2	1:JB:415:TRP:HB2	2.00	0.43
1:JB:599:ILE:O	1:JB:603:VAL:HG23	2.18	0.43
1:KB:537:LEU:HA	1:KB:645:PRO:HA	2.00	0.43
1:LB:704:LYS:NZ	1:LB:705:GLU:OE2	2.52	0.43
1:LB:758:GLU:HA	1:LB:761:ARG:HB3	2.01	0.43
1:MB:714:MET:HA	1:MB:717:GLU:HB3	2.01	0.43
1:MB:758:GLU:HA	1:MB:761:ARG:HB3	2.01	0.43
1:NB:13:TYR:HB2	1:NB:49:ARG:HH22	1.84	0.43
1:NB:537:LEU:HA	1:NB:645:PRO:HA	2.00	0.43
1:PB:61:VAL:H	1:PB:88:GLN:HE22	1.66	0.43
1:PB:731:GLU:OE1	1:PB:734:ARG:HG3	2.18	0.43
1:QB:73:VAL:HG11	1:QB:100:TYR:CZ	2.54	0.43
1:RB:129:PHE:CE1	1:RB:137:VAL:HG11	2.54	0.43
1:SB:129:PHE:CG	1:SB:156:GLU:HG3	2.53	0.43
1:SB:660:LEU:O	1:SB:664:ILE:HG23	2.18	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:TB:603:VAL:HG11	1:TB:638:VAL:HG21	2.01	0.43
1:VB:54:PRO:HB2	1:VB:57:HIS:CE1	2.54	0.43
1:VB:699:ALA:CB	1:WB:693:ILE:HG13	2.49	0.43
1:WB:400:ALA:HB2	1:WB:491:PRO:HD3	2.00	0.43
1:YB:73:VAL:HG11	1:YB:100:TYR:CZ	2.54	0.43
1:YB:654:LEU:HD23	1:YB:654:LEU:HA	1.84	0.43
1:ZB:54:PRO:HB2	1:ZB:57:HIS:CE1	2.54	0.43
1:AC:73:VAL:HG11	1:AC:100:TYR:CZ	2.54	0.43
1:A:129:PHE:CE1	1:A:137:VAL:HG11	2.54	0.42
1:A:714:MET:HA	1:A:717:GLU:HB3	2.01	0.42
1:A:795:PHE:HA	1:A:798:MET:HB3	2.00	0.42
1:C:490:ASP:HB3	1:C:491:PRO:HD2	2.01	0.42
1:C:686:GLY:O	1:C:690:ARG:HG3	2.19	0.42
1:C:716:VAL:HG11	1:E:708:GLU:HG3	2.00	0.42
1:D:704:LYS:NZ	1:D:705:GLU:OE2	2.52	0.42
1:E:73:VAL:HG11	1:E:100:TYR:CZ	2.54	0.42
1:E:174:LEU:HD12	1:E:174:LEU:HA	1.92	0.42
1:F:13:TYR:HB2	1:F:49:ARG:HH22	1.84	0.42
1:F:603:VAL:HG11	1:F:638:VAL:HG21	2.01	0.42
1:H:129:PHE:CD1	1:H:156:GLU:HG3	2.55	0.42
1:J:490:ASP:HB3	1:J:491:PRO:HD2	2.01	0.42
1:K:73:VAL:HG11	1:K:100:TYR:CZ	2.54	0.42
1:K:704:LYS:NZ	1:K:705:GLU:OE2	2.52	0.42
1:L:279:ARG:NE	1:N:337:LEU:CD1	2.82	0.42
1:M:73:VAL:HG11	1:M:100:TYR:CZ	2.54	0.42
1:N:8:ILE:HD11	1:N:35:TYR:CD2	2.51	0.42
1:N:54:PRO:HB2	1:N:57:HIS:CE1	2.54	0.42
1:N:73:VAL:HG11	1:N:100:TYR:CZ	2.54	0.42
1:N:533:ASP:CG	1:N:587:THR:HG1	2.13	0.42
1:O:236:LYS:HB2	1:O:236:LYS:HE3	1.77	0.42
1:R:391:GLN:HB2	1:R:415:TRP:HB2	2.00	0.42
1:S:54:PRO:HB2	1:S:57:HIS:CE1	2.54	0.42
1:S:758:GLU:HA	1:S:761:ARG:HB3	2.01	0.42
1:W:13:TYR:HB2	1:W:49:ARG:HH22	1.84	0.42
1:W:603:VAL:HG11	1:W:638:VAL:HG21	2.01	0.42
1:X:13:TYR:HB2	1:X:49:ARG:HH22	1.84	0.42
1:X:72:SER:O	1:X:74:LEU:HD12	2.18	0.42
1:Y:54:PRO:HB2	1:Y:57:HIS:CE1	2.54	0.42
1:Z:136:LYS:HA	1:Z:136:LYS:HD2	1.86	0.42
1:AA:174:LEU:HD11	1:AA:212:VAL:HG13	1.99	0.42
1:AA:490:ASP:HB3	1:AA:491:PRO:HD2	2.01	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:603:VAL:HG11	1:AA:638:VAL:HG21	2.01	0.42
1:BA:686:GLY:O	1:BA:690:ARG:HG3	2.19	0.42
1:CA:537:LEU:HA	1:CA:645:PRO:HA	2.00	0.42
1:EA:73:VAL:HG11	1:EA:100:TYR:CZ	2.54	0.42
1:EA:400:ALA:HB2	1:EA:491:PRO:HD3	2.00	0.42
1:EA:587:THR:HG1	1:EA:588:PHE:H	1.67	0.42
1:FA:13:TYR:HB2	1:FA:49:ARG:HH22	1.84	0.42
1:FA:686:GLY:O	1:FA:690:ARG:HG3	2.19	0.42
1:FA:704:LYS:NZ	1:FA:705:GLU:OE2	2.52	0.42
1:FA:714:MET:HA	1:FA:717:GLU:HB3	2.00	0.42
1:GA:73:VAL:HG11	1:GA:100:TYR:CZ	2.54	0.42
1:HA:218:ALA:HA	1:HA:260:VAL:HA	2.00	0.42
1:HA:686:GLY:O	1:HA:690:ARG:HG3	2.19	0.42
1:IA:129:PHE:CD1	1:IA:156:GLU:HG3	2.54	0.42
1:IA:688:LEU:HD12	1:KA:679:ARG:HH12	1.84	0.42
1:JA:136:LYS:HA	1:JA:136:LYS:HD2	1.86	0.42
1:LA:123:LEU:HD23	1:LA:123:LEU:HA	1.93	0.42
1:LA:286:ASP:OD1	1:LA:297:GLY:N	2.47	0.42
1:LA:391:GLN:HB2	1:LA:415:TRP:HB2	2.00	0.42
1:MA:13:TYR:HB2	1:MA:49:ARG:HH22	1.84	0.42
1:MA:286:ASP:OD1	1:MA:297:GLY:N	2.47	0.42
1:MA:603:VAL:HG11	1:MA:638:VAL:HG21	2.01	0.42
1:MA:707:LEU:HD23	1:MA:707:LEU:HA	1.74	0.42
1:NA:223:GLU:OE2	1:NA:224:LYS:NZ	2.42	0.42
1:OA:73:VAL:HG11	1:OA:100:TYR:CZ	2.54	0.42
1:OA:537:LEU:HA	1:OA:645:PRO:HA	2.00	0.42
1:PA:73:VAL:HG11	1:PA:100:TYR:CZ	2.54	0.42
1:PA:174:LEU:HD12	1:PA:174:LEU:HA	1.92	0.42
1:PA:591:PHE:CD1	1:PA:598:ILE:HD11	2.42	0.42
1:RA:537:LEU:HA	1:RA:645:PRO:HA	2.00	0.42
1:SA:73:VAL:HG11	1:SA:100:TYR:CZ	2.54	0.42
1:SA:490:ASP:HB3	1:SA:491:PRO:HD2	2.01	0.42
1:SA:660:LEU:O	1:SA:664:ILE:HG23	2.18	0.42
1:UA:54:PRO:HB2	1:UA:57:HIS:CE1	2.54	0.42
1:UA:603:VAL:HG11	1:UA:638:VAL:HG21	2.01	0.42
1:XA:73:VAL:HG11	1:XA:100:TYR:CZ	2.54	0.42
1:YA:13:TYR:HB2	1:YA:49:ARG:HH22	1.84	0.42
1:YA:174:LEU:HD11	1:YA:212:VAL:HG13	2.00	0.42
1:YA:731:GLU:OE1	1:YA:734:ARG:HG3	2.18	0.42
1:AB:709:LEU:HA	1:AB:709:LEU:HD23	1.82	0.42
1:BB:684:ALA:HB2	1:CB:675:HIS:ND1	2.33	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CB:13:TYR:HB2	1:CB:49:ARG:HH22	1.84	0.42
1:CB:129:PHE:CE1	1:CB:137:VAL:HG11	2.54	0.42
1:CB:174:LEU:HD11	1:CB:212:VAL:HG13	1.99	0.42
1:CB:686:GLY:O	1:CB:690:ARG:HG3	2.19	0.42
1:DB:129:PHE:CG	1:DB:156:GLU:HG3	2.53	0.42
1:FB:73:VAL:HG11	1:FB:100:TYR:CZ	2.54	0.42
1:GB:686:GLY:O	1:GB:690:ARG:HG3	2.19	0.42
1:HB:500:LEU:HD23	1:HB:500:LEU:HA	1.91	0.42
1:HB:521:ASP:OD1	1:HB:522:PHE:N	2.44	0.42
1:HB:714:MET:HA	1:HB:717:GLU:HB3	2.01	0.42
1:KB:13:TYR:HB2	1:KB:49:ARG:HH22	1.84	0.42
1:LB:73:VAL:HG11	1:LB:100:TYR:CZ	2.54	0.42
1:LB:651:ARG:C	1:LB:653:ALA:H	2.17	0.42
1:MB:129:PHE:CE1	1:MB:137:VAL:HG11	2.54	0.42
1:MB:599:ILE:O	1:MB:603:VAL:HG23	2.18	0.42
1:OB:257:GLU:OE2	1:PB:244:ARG:CG	2.65	0.42
1:OB:704:LYS:NZ	1:OB:705:GLU:OE2	2.52	0.42
1:PB:236:LYS:HE3	1:PB:236:LYS:HB2	1.77	0.42
1:PB:758:GLU:HA	1:PB:761:ARG:HB3	2.01	0.42
1:QB:129:PHE:CE1	1:QB:137:VAL:HG11	2.54	0.42
1:RB:521:ASP:OD1	1:RB:522:PHE:N	2.44	0.42
1:RB:704:LYS:NZ	1:RB:705:GLU:OE2	2.52	0.42
1:RB:728:SER:HA	1:SB:722:ALA:HB3	2.01	0.42
1:SB:709:LEU:HA	1:SB:709:LEU:HD23	1.82	0.42
1:SB:758:GLU:HA	1:SB:761:ARG:HB3	2.01	0.42
1:TB:286:ASP:OD1	1:TB:297:GLY:N	2.47	0.42
1:TB:490:ASP:HB3	1:TB:491:PRO:HD2	2.01	0.42
1:TB:680:LEU:HB3	1:UB:675:HIS:ND1	2.34	0.42
1:UB:714:MET:HA	1:UB:717:GLU:HB3	2.01	0.42
1:VB:129:PHE:CE1	1:VB:137:VAL:HG11	2.54	0.42
1:WB:13:TYR:HB2	1:WB:49:ARG:HH22	1.84	0.42
1:WB:54:PRO:HB2	1:WB:57:HIS:CE1	2.54	0.42
1:WB:129:PHE:CE1	1:WB:137:VAL:HG11	2.54	0.42
1:AC:129:PHE:CE1	1:AC:137:VAL:HG11	2.54	0.42
1:A:73:VAL:HG11	1:A:100:TYR:CZ	2.54	0.42
1:B:85:HIS:CE1	1:AC:49:ARG:CZ	3.01	0.42
1:B:657:SER:CB	1:D:534:HIS:CE1	3.00	0.42
1:B:664:ILE:HG13	1:B:665:THR:N	2.32	0.42
1:B:686:GLY:O	1:B:690:ARG:HG3	2.19	0.42
1:C:72:SER:O	1:C:74:LEU:HD12	2.18	0.42
1:D:654:LEU:HD22	1:F:534:HIS:CB	2.48	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:236:LYS:HB2	1:G:236:LYS:HE3	1.77	0.42
1:G:704:LYS:NZ	1:G:705:GLU:OE2	2.52	0.42
1:I:136:LYS:HA	1:I:136:LYS:HD2	1.85	0.42
1:I:391:GLN:HB2	1:I:415:TRP:HB2	2.00	0.42
1:I:599:ILE:O	1:I:603:VAL:HG23	2.18	0.42
1:J:775:ALA:CB	1:L:770:LEU:HD12	2.50	0.42
1:K:537:LEU:HA	1:K:645:PRO:HA	2.00	0.42
1:L:654:LEU:HD23	1:L:654:LEU:HA	1.84	0.42
1:M:129:PHE:CD1	1:M:156:GLU:HG3	2.54	0.42
1:M:603:VAL:HG11	1:M:638:VAL:HG21	2.01	0.42
1:M:731:GLU:OE1	1:M:734:ARG:HG3	2.18	0.42
1:O:129:PHE:CE1	1:O:137:VAL:HG11	2.54	0.42
1:P:91:ARG:NH1	1:P:94:GLN:OE1	2.39	0.42
1:P:136:LYS:HD2	1:P:136:LYS:HA	1.86	0.42
1:P:686:GLY:O	1:P:690:ARG:HG3	2.19	0.42
1:Q:286:ASP:OD1	1:Q:297:GLY:N	2.47	0.42
1:Q:714:MET:HA	1:Q:717:GLU:HB3	2.00	0.42
1:R:129:PHE:CD1	1:R:156:GLU:HG3	2.54	0.42
1:R:129:PHE:CE1	1:R:137:VAL:HG11	2.54	0.42
1:S:599:ILE:O	1:S:603:VAL:HG23	2.18	0.42
1:T:506:LYS:HD3	1:T:506:LYS:HA	1.81	0.42
1:V:54:PRO:HB2	1:V:57:HIS:CE1	2.54	0.42
1:W:73:VAL:HG11	1:W:100:TYR:CZ	2.54	0.42
1:X:54:PRO:HB2	1:X:57:HIS:CE1	2.54	0.42
1:X:758:GLU:HA	1:X:761:ARG:HB3	2.01	0.42
1:Y:13:TYR:HB2	1:Y:49:ARG:HH22	1.84	0.42
1:Y:603:VAL:HG11	1:Y:638:VAL:HG21	2.01	0.42
1:Z:603:VAL:HG11	1:Z:638:VAL:HG21	2.01	0.42
1:Z:758:GLU:HA	1:Z:761:ARG:HB3	2.01	0.42
1:Z:795:PHE:HA	1:Z:798:MET:HB3	1.99	0.42
1:AA:704:LYS:NZ	1:AA:705:GLU:OE2	2.52	0.42
1:BA:136:LYS:HD2	1:BA:136:LYS:HA	1.86	0.42
1:EA:129:PHE:CE1	1:EA:137:VAL:HG11	2.54	0.42
1:EA:174:LEU:HD11	1:EA:212:VAL:HG13	1.99	0.42
1:EA:490:ASP:N	1:EA:493:GLU:OE1	2.42	0.42
1:EA:704:LYS:NZ	1:EA:705:GLU:OE2	2.52	0.42
1:FA:129:PHE:CD1	1:FA:156:GLU:HG3	2.54	0.42
1:FA:521:ASP:OD1	1:FA:522:PHE:N	2.44	0.42
1:FA:709:LEU:HA	1:FA:709:LEU:HD23	1.82	0.42
1:HA:61:VAL:H	1:HA:88:GLN:HE22	1.65	0.42
1:IA:169:LYS:HZ2	1:KA:194:GLU:CA	2.30	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:IA:603:VAL:HG11	1:IA:638:VAL:HG21	2.01	0.42
1:JA:13:TYR:HB2	1:JA:49:ARG:HH22	1.84	0.42
1:LA:599:ILE:O	1:LA:603:VAL:HG23	2.18	0.42
1:LA:603:VAL:HG11	1:LA:638:VAL:HG21	2.01	0.42
1:MA:709:LEU:HA	1:MA:709:LEU:HD23	1.82	0.42
1:NA:73:VAL:HG11	1:NA:100:TYR:CZ	2.54	0.42
1:OA:664:ILE:HG13	1:OA:665:THR:N	2.32	0.42
1:PA:537:LEU:HA	1:PA:645:PRO:HA	2.00	0.42
1:QA:54:PRO:HB2	1:QA:57:HIS:CE1	2.54	0.42
1:RA:61:VAL:H	1:RA:88:GLN:HE22	1.65	0.42
1:RA:174:LEU:HD12	1:RA:174:LEU:HA	1.92	0.42
1:RA:714:MET:HA	1:RA:717:GLU:HB3	2.00	0.42
1:SA:54:PRO:HB2	1:SA:57:HIS:CE1	2.54	0.42
1:SA:244:ARG:HD3	1:SA:244:ARG:HA	1.85	0.42
1:SA:587:THR:HG1	1:SA:588:PHE:H	1.67	0.42
1:UA:129:PHE:CD1	1:UA:156:GLU:HG3	2.54	0.42
1:VA:587:THR:HG1	1:VA:588:PHE:N	2.17	0.42
1:VA:704:LYS:NZ	1:VA:705:GLU:OE2	2.52	0.42
1:WA:204:TYR:OH	1:WA:210:GLU:OE2	2.30	0.42
1:WA:218:ALA:HA	1:WA:260:VAL:HA	2.00	0.42
1:WA:704:LYS:NZ	1:WA:705:GLU:OE2	2.52	0.42
1:WA:707:LEU:HD23	1:WA:707:LEU:HA	1.74	0.42
1:XA:129:PHE:CD1	1:XA:156:GLU:HG3	2.54	0.42
1:XA:490:ASP:HB3	1:XA:491:PRO:HD2	2.01	0.42
1:YA:73:VAL:HG11	1:YA:100:TYR:CZ	2.54	0.42
1:YA:599:ILE:O	1:YA:603:VAL:HG23	2.18	0.42
1:YA:603:VAL:HG11	1:YA:638:VAL:HG21	2.01	0.42
1:YA:707:LEU:HD23	1:YA:707:LEU:HA	1.74	0.42
1:ZA:13:TYR:HB2	1:ZA:49:ARG:HH22	1.84	0.42
1:ZA:129:PHE:CD1	1:ZA:156:GLU:HG3	2.55	0.42
1:AB:758:GLU:HA	1:AB:761:ARG:HB3	2.01	0.42
1:BB:174:LEU:HD12	1:BB:174:LEU:HA	1.92	0.42
1:EB:218:ALA:HA	1:EB:260:VAL:HA	2.00	0.42
1:FB:603:VAL:HG11	1:FB:638:VAL:HG21	2.01	0.42
1:FB:707:LEU:HD23	1:FB:707:LEU:HA	1.74	0.42
1:FB:814:GLY:HA2	1:FB:815:PRO:HD3	1.89	0.42
1:HB:129:PHE:CD1	1:HB:156:GLU:HG3	2.54	0.42
1:HB:599:ILE:O	1:HB:603:VAL:HG23	2.18	0.42
1:JB:394:LYS:HE3	1:JB:394:LYS:HB2	1.87	0.42
1:JB:651:ARG:C	1:JB:653:ALA:H	2.17	0.42
1:JB:758:GLU:HA	1:JB:761:ARG:HB3	2.01	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:KB:310:LEU:HD23	1:KB:310:LEU:HA	1.92	0.42
1:LB:8:ILE:HD11	1:LB:35:TYR:CD2	2.51	0.42
1:MB:73:VAL:HG11	1:MB:100:TYR:CZ	2.54	0.42
1:NB:758:GLU:HA	1:NB:761:ARG:HB3	2.01	0.42
1:OB:8:ILE:HD11	1:OB:35:TYR:CD2	2.51	0.42
1:OB:666:THR:HG22	1:PB:657:SER:HB2	2.01	0.42
1:RB:599:ILE:O	1:RB:603:VAL:HG23	2.18	0.42
1:RB:651:ARG:C	1:RB:653:ALA:H	2.17	0.42
1:RB:758:GLU:HA	1:RB:761:ARG:HB3	2.01	0.42
1:SB:13:TYR:HB2	1:SB:49:ARG:HH22	1.84	0.42
1:TB:129:PHE:CD1	1:TB:156:GLU:HG3	2.55	0.42
1:TB:644:GLU:CD	1:UB:536:ARG:HH12	2.21	0.42
1:UB:13:TYR:HB2	1:UB:49:ARG:HH22	1.84	0.42
1:UB:704:LYS:NZ	1:UB:705:GLU:OE2	2.52	0.42
1:UB:731:GLU:CB	1:VB:722:ALA:HB1	2.49	0.42
1:UB:735:ILE:CB	1:VB:726:ALA:O	2.67	0.42
1:VB:758:GLU:HA	1:VB:761:ARG:HB3	2.01	0.42
1:WB:686:GLY:O	1:WB:690:ARG:HG3	2.19	0.42
1:XB:72:SER:O	1:XB:74:LEU:HD12	2.18	0.42
1:XB:286:ASP:OD1	1:XB:297:GLY:N	2.47	0.42
1:YB:129:PHE:CE1	1:YB:137:VAL:HG11	2.54	0.42
1:YB:521:ASP:OD1	1:YB:522:PHE:N	2.44	0.42
1:YB:714:MET:HA	1:YB:717:GLU:HB3	2.00	0.42
1:YB:758:GLU:HA	1:YB:761:ARG:HB3	2.01	0.42
1:ZB:174:LEU:HD12	1:ZB:174:LEU:HA	1.92	0.42
1:AC:13:TYR:HB2	1:AC:49:ARG:HH22	1.84	0.42
1:AC:714:MET:HA	1:AC:717:GLU:HB3	2.01	0.42
1:AC:742:LEU:HD12	1:AC:742:LEU:HA	1.86	0.42
1:A:129:PHE:CD1	1:A:156:GLU:HG3	2.54	0.42
1:B:73:VAL:HG11	1:B:100:TYR:CZ	2.54	0.42
1:C:537:LEU:HA	1:C:645:PRO:HA	2.00	0.42
1:D:9:ARG:CZ	1:F:21:GLN:CA	2.97	0.42
1:D:34:THR:CG2	1:F:23:SER:HB2	2.28	0.42
1:D:662:ILE:HD13	1:F:650:THR:HG23	2.01	0.42
1:H:73:VAL:HG11	1:H:100:TYR:CZ	2.54	0.42
1:H:599:ILE:O	1:H:603:VAL:HG23	2.18	0.42
1:I:54:PRO:HB2	1:I:57:HIS:CE1	2.54	0.42
1:K:13:TYR:HB2	1:K:49:ARG:HH22	1.84	0.42
1:L:129:PHE:CE1	1:L:137:VAL:HG11	2.54	0.42
1:L:236:LYS:HB2	1:L:236:LYS:HE3	1.77	0.42
1:L:758:GLU:HA	1:L:761:ARG:HB3	2.01	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:537:LEU:HA	1:M:645:PRO:HA	2.00	0.42
1:N:806:THR:HG22	1:P:804:PRO:CB	2.44	0.42
1:O:218:ALA:HA	1:O:260:VAL:HA	2.00	0.42
1:O:286:ASP:OD1	1:O:297:GLY:N	2.47	0.42
1:P:61:VAL:H	1:P:88:GLN:HE22	1.66	0.42
1:P:129:PHE:CE1	1:P:137:VAL:HG11	2.54	0.42
1:P:244:ARG:HD3	1:P:244:ARG:HA	1.85	0.42
1:Q:13:TYR:HB2	1:Q:49:ARG:HH22	1.84	0.42
1:Q:174:LEU:HD12	1:Q:174:LEU:HA	1.92	0.42
1:T:686:GLY:O	1:T:690:ARG:HG3	2.19	0.42
1:X:129:PHE:CD1	1:X:156:GLU:HG3	2.54	0.42
1:Y:770:LEU:HD21	1:Y:774:ARG:CZ	2.50	0.42
1:Z:54:PRO:HB2	1:Z:57:HIS:CE1	2.54	0.42
1:Z:73:VAL:HG11	1:Z:100:TYR:CZ	2.54	0.42
1:AA:54:PRO:HB2	1:AA:57:HIS:CE1	2.54	0.42
1:AA:72:SER:O	1:AA:74:LEU:HD12	2.18	0.42
1:AA:129:PHE:CE1	1:AA:137:VAL:HG11	2.54	0.42
1:AA:651:ARG:C	1:AA:653:ALA:H	2.17	0.42
1:BA:13:TYR:HB2	1:BA:49:ARG:HH22	1.84	0.42
1:CA:698:GLU:HA	1:CA:701:LYS:HD2	2.02	0.42
1:DA:218:ALA:HA	1:DA:260:VAL:HA	2.00	0.42
1:EA:714:MET:HA	1:EA:717:GLU:HB3	2.01	0.42
1:HA:599:ILE:O	1:HA:603:VAL:HG23	2.18	0.42
1:IA:73:VAL:HG11	1:IA:100:TYR:CZ	2.54	0.42
1:JA:72:SER:O	1:JA:74:LEU:HD12	2.18	0.42
1:JA:129:PHE:CD1	1:JA:156:GLU:HG3	2.55	0.42
1:MA:686:GLY:O	1:MA:690:ARG:HG3	2.19	0.42
1:MA:704:LYS:NZ	1:MA:705:GLU:OE2	2.52	0.42
1:MA:731:GLU:HG2	1:OA:719:THR:OG1	2.18	0.42
1:NA:129:PHE:CD1	1:NA:156:GLU:HG3	2.54	0.42
1:NA:709:LEU:HA	1:NA:709:LEU:HD23	1.82	0.42
1:OA:13:TYR:HB2	1:OA:49:ARG:HH22	1.84	0.42
1:OA:54:PRO:HB2	1:OA:57:HIS:CE1	2.54	0.42
1:PA:758:GLU:HA	1:PA:761:ARG:HB3	2.01	0.42
1:QA:129:PHE:CD1	1:QA:156:GLU:HG3	2.54	0.42
1:QA:129:PHE:CE1	1:QA:137:VAL:HG11	2.54	0.42
1:QA:770:LEU:HD21	1:QA:774:ARG:CZ	2.50	0.42
1:SA:129:PHE:CE1	1:SA:137:VAL:HG11	2.54	0.42
1:SA:587:THR:HG1	1:SA:588:PHE:N	2.17	0.42
1:SA:714:MET:HA	1:SA:717:GLU:HB3	2.01	0.42
1:VA:603:VAL:HG11	1:VA:638:VAL:HG21	2.01	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:VA:651:ARG:C	1:VA:653:ALA:H	2.17	0.42
1:WA:13:TYR:HB2	1:WA:49:ARG:HH22	1.84	0.42
1:XA:698:GLU:HB3	1:ZA:690:ARG:HD2	2.01	0.42
1:YA:129:PHE:CE1	1:YA:137:VAL:HG11	2.54	0.42
1:YA:686:GLY:O	1:YA:690:ARG:HG3	2.19	0.42
1:ZA:591:PHE:CD1	1:ZA:598:ILE:HD11	2.42	0.42
1:AB:13:TYR:HB2	1:AB:49:ARG:HH22	1.84	0.42
1:BB:603:VAL:HG11	1:BB:638:VAL:HG21	2.01	0.42
1:BB:758:GLU:HA	1:BB:761:ARG:HB3	2.01	0.42
1:CB:704:LYS:NZ	1:CB:705:GLU:OE2	2.52	0.42
1:DB:686:GLY:O	1:DB:690:ARG:HG3	2.19	0.42
1:DB:698:GLU:HA	1:DB:701:LYS:HD2	2.02	0.42
1:EB:174:LEU:HD12	1:EB:174:LEU:HA	1.92	0.42
1:HB:129:PHE:CE1	1:HB:137:VAL:HG11	2.54	0.42
1:IB:136:LYS:HA	1:IB:136:LYS:HD2	1.86	0.42
1:IB:758:GLU:HA	1:IB:761:ARG:HB3	2.01	0.42
1:KB:490:ASP:HB3	1:KB:491:PRO:HD2	2.01	0.42
1:KB:545:TRP:HA	1:KB:635:VAL:HA	2.02	0.42
1:KB:698:GLU:HA	1:KB:701:LYS:HD2	2.02	0.42
1:LB:136:LYS:HD2	1:LB:136:LYS:HA	1.86	0.42
1:LB:506:LYS:HD3	1:LB:506:LYS:HA	1.81	0.42
1:MB:54:PRO:HB2	1:MB:57:HIS:CE1	2.54	0.42
1:OB:118:ASN:HD21	1:PB:180:LYS:HA	1.83	0.42
1:OB:485:GLU:HA	1:PB:473:TYR:CE1	2.55	0.42
1:RB:73:VAL:HG11	1:RB:100:TYR:CZ	2.54	0.42
1:SB:61:VAL:H	1:SB:88:GLN:HE22	1.66	0.42
1:SB:743:GLN:CG	1:TB:734:ARG:HH21	2.32	0.42
1:TB:73:VAL:HG11	1:TB:100:TYR:CZ	2.54	0.42
1:UB:129:PHE:CD1	1:UB:156:GLU:HG3	2.54	0.42
1:UB:770:LEU:HD21	1:UB:774:ARG:CZ	2.50	0.42
1:VB:129:PHE:CD1	1:VB:156:GLU:HG3	2.54	0.42
1:WB:73:VAL:HG11	1:WB:100:TYR:CZ	2.54	0.42
1:XB:129:PHE:CD1	1:XB:156:GLU:HG3	2.55	0.42
1:XB:129:PHE:CE1	1:XB:137:VAL:HG11	2.54	0.42
1:YB:537:LEU:HA	1:YB:645:PRO:HA	2.00	0.42
1:YB:603:VAL:HG11	1:YB:638:VAL:HG21	2.01	0.42
1:ZB:129:PHE:CE1	1:ZB:137:VAL:HG11	2.54	0.42
1:ZB:406:TYR:HH	1:ZB:412:GLU:CD	2.22	0.42
1:ZB:735:ILE:HG22	1:AC:726:ALA:CA	2.44	0.42
1:ZB:742:LEU:CD2	1:AC:733:ALA:C	2.78	0.42
1:A:745:LYS:HD2	1:NB:753:ILE:HG21	2.00	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:764:LYS:NZ	1:C:756:GLU:HG3	2.35	0.42
1:B:218:ALA:HA	1:B:260:VAL:HA	2.00	0.42
1:B:279:ARG:NE	1:D:338:GLN:HA	2.35	0.42
1:B:537:LEU:HA	1:B:645:PRO:HA	2.00	0.42
1:B:603:VAL:HG11	1:B:638:VAL:HG21	2.01	0.42
1:C:603:VAL:HG11	1:C:638:VAL:HG21	2.01	0.42
1:C:714:MET:HA	1:C:717:GLU:HB3	2.01	0.42
1:D:117:PRO:HD2	1:F:180:LYS:HD2	2.01	0.42
1:D:599:ILE:O	1:D:603:VAL:HG23	2.18	0.42
1:E:770:LEU:HD21	1:E:774:ARG:CZ	2.50	0.42
1:F:218:ALA:HA	1:F:260:VAL:HA	2.00	0.42
1:G:500:LEU:HD23	1:G:500:LEU:HA	1.91	0.42
1:H:54:PRO:HB2	1:H:57:HIS:CE1	2.54	0.42
1:H:58:TYR:CE1	1:H:153:PRO:HG2	2.55	0.42
1:H:704:LYS:NZ	1:H:705:GLU:OE2	2.52	0.42
1:H:770:LEU:HD21	1:H:774:ARG:CZ	2.50	0.42
1:I:339:PRO:HD3	1:I:353:ALA:HB2	2.02	0.42
1:J:13:TYR:HB2	1:J:49:ARG:HH22	1.84	0.42
1:J:73:VAL:HG11	1:J:100:TYR:CZ	2.54	0.42
1:K:72:SER:O	1:K:74:LEU:HD12	2.18	0.42
1:K:129:PHE:CE1	1:K:137:VAL:HG11	2.54	0.42
1:L:129:PHE:CD1	1:L:156:GLU:HG3	2.54	0.42
1:L:506:LYS:HD3	1:L:506:LYS:HA	1.82	0.42
1:L:603:VAL:HG11	1:L:638:VAL:HG21	2.01	0.42
1:M:209:PHE:CE2	1:M:210:GLU:HG3	2.55	0.42
1:N:651:ARG:C	1:N:653:ALA:H	2.17	0.42
1:O:129:PHE:CD1	1:O:156:GLU:HG3	2.54	0.42
1:O:731:GLU:OE1	1:O:734:ARG:HG3	2.18	0.42
1:P:58:TYR:CE1	1:P:153:PRO:HG2	2.55	0.42
1:P:73:VAL:HG11	1:P:100:TYR:CZ	2.54	0.42
1:P:209:PHE:CE2	1:P:210:GLU:HG3	2.55	0.42
1:P:758:GLU:HA	1:P:761:ARG:HB3	2.01	0.42
1:R:666:THR:CG2	1:T:657:SER:HB2	2.47	0.42
1:S:603:VAL:HG11	1:S:638:VAL:HG21	2.01	0.42
1:S:686:GLY:O	1:S:690:ARG:HG3	2.19	0.42
1:S:714:MET:HA	1:S:717:GLU:HB3	2.01	0.42
1:T:236:LYS:HE3	1:T:236:LYS:HB2	1.77	0.42
1:V:13:TYR:HB2	1:V:49:ARG:HH22	1.84	0.42
1:V:129:PHE:CE1	1:V:137:VAL:HG11	2.54	0.42
1:V:490:ASP:N	1:V:493:GLU:OE1	2.43	0.42
1:V:698:GLU:HA	1:V:701:LYS:HD2	2.02	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:W:521:ASP:OD1	1:W:522:PHE:N	2.44	0.42
1:W:698:GLU:HA	1:W:701:LYS:HD2	2.02	0.42
1:Y:129:PHE:CE1	1:Y:137:VAL:HG11	2.54	0.42
1:Y:758:GLU:HA	1:Y:761:ARG:HB3	2.01	0.42
1:Z:770:LEU:HD21	1:Z:774:ARG:CZ	2.50	0.42
1:AA:129:PHE:CD1	1:AA:156:GLU:HG3	2.54	0.42
1:BA:654:LEU:HD23	1:BA:654:LEU:HA	1.84	0.42
1:CA:54:PRO:HB2	1:CA:57:HIS:CE1	2.54	0.42
1:CA:73:VAL:HG11	1:CA:100:TYR:CZ	2.54	0.42
1:CA:236:LYS:HB2	1:CA:236:LYS:HE3	1.77	0.42
1:DA:400:ALA:HB2	1:DA:491:PRO:HD3	2.00	0.42
1:DA:714:MET:HA	1:DA:717:GLU:HB3	2.01	0.42
1:EA:129:PHE:CD1	1:EA:156:GLU:HG3	2.54	0.42
1:EA:603:VAL:HG11	1:EA:638:VAL:HG21	2.01	0.42
1:FA:73:VAL:HG11	1:FA:100:TYR:CZ	2.54	0.42
1:FA:664:ILE:HG13	1:FA:665:THR:N	2.32	0.42
1:GA:8:ILE:HD11	1:GA:35:TYR:CD2	2.51	0.42
1:GA:758:GLU:HA	1:GA:761:ARG:HB3	2.02	0.42
1:GA:770:LEU:HD21	1:GA:774:ARG:CZ	2.50	0.42
1:HA:136:LYS:HA	1:HA:136:LYS:HD2	1.86	0.42
1:HA:209:PHE:CE2	1:HA:210:GLU:HG3	2.55	0.42
1:HA:400:ALA:HB2	1:HA:491:PRO:HD3	1.99	0.42
1:HA:490:ASP:HB3	1:HA:491:PRO:HD2	2.01	0.42
1:HA:707:LEU:HD23	1:HA:707:LEU:HA	1.74	0.42
1:JA:73:VAL:HG11	1:JA:100:TYR:CZ	2.54	0.42
1:JA:209:PHE:CE2	1:JA:210:GLU:HG3	2.55	0.42
1:JA:500:LEU:HD23	1:JA:500:LEU:HA	1.90	0.42
1:LA:58:TYR:CE1	1:LA:153:PRO:HG2	2.55	0.42
1:LA:129:PHE:CD1	1:LA:156:GLU:HG3	2.54	0.42
1:NA:129:PHE:CE1	1:NA:137:VAL:HG11	2.54	0.42
1:NA:770:LEU:HD21	1:NA:774:ARG:CZ	2.50	0.42
1:OA:603:VAL:HG11	1:OA:638:VAL:HG21	2.01	0.42
1:PA:58:TYR:CE1	1:PA:153:PRO:HG2	2.55	0.42
1:PA:244:ARG:HD3	1:PA:244:ARG:HA	1.85	0.42
1:QA:406:TYR:HH	1:QA:412:GLU:CD	2.22	0.42
1:QA:506:LYS:HD3	1:QA:506:LYS:HA	1.81	0.42
1:QA:603:VAL:HG11	1:QA:638:VAL:HG21	2.01	0.42
1:RA:704:LYS:NZ	1:RA:705:GLU:OE2	2.52	0.42
1:SA:218:ALA:HA	1:SA:260:VAL:HA	2.00	0.42
1:SA:506:LYS:HD3	1:SA:506:LYS:HA	1.81	0.42
1:TA:129:PHE:CE1	1:TA:137:VAL:HG11	2.54	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:TA:537:LEU:HA	1:TA:645:PRO:HA	2.00	0.42
1:VA:73:VAL:HG11	1:VA:100:TYR:CZ	2.54	0.42
1:VA:286:ASP:OD1	1:VA:297:GLY:N	2.47	0.42
1:WA:209:PHE:CE2	1:WA:210:GLU:HG3	2.55	0.42
1:WA:406:TYR:HH	1:WA:412:GLU:CD	2.23	0.42
1:WA:698:GLU:HA	1:WA:701:LYS:HD2	2.02	0.42
1:XA:129:PHE:CG	1:XA:156:GLU:HG3	2.53	0.42
1:XA:223:GLU:OE2	1:XA:224:LYS:NZ	2.42	0.42
1:XA:660:LEU:O	1:XA:664:ILE:HG23	2.18	0.42
1:ZA:129:PHE:CE1	1:ZA:137:VAL:HG11	2.54	0.42
1:ZA:698:GLU:HA	1:ZA:701:LYS:HD2	2.02	0.42
1:BB:218:ALA:HA	1:BB:260:VAL:HA	2.00	0.42
1:CB:129:PHE:CD1	1:CB:156:GLU:HG3	2.54	0.42
1:CB:603:VAL:HG11	1:CB:638:VAL:HG21	2.01	0.42
1:DB:209:PHE:CE2	1:DB:210:GLU:HG3	2.55	0.42
1:DB:537:LEU:HA	1:DB:645:PRO:HA	2.00	0.42
1:EB:73:VAL:HG11	1:EB:100:TYR:CZ	2.54	0.42
1:EB:174:LEU:HD11	1:EB:212:VAL:HG13	1.99	0.42
1:EB:758:GLU:HA	1:EB:761:ARG:HB3	2.01	0.42
1:FB:758:GLU:HA	1:FB:761:ARG:HB3	2.01	0.42
1:HB:73:VAL:HG11	1:HB:100:TYR:CZ	2.54	0.42
1:HB:704:LYS:NZ	1:HB:705:GLU:OE2	2.52	0.42
1:IB:129:PHE:CE1	1:IB:137:VAL:HG11	2.54	0.42
1:IB:724:ALA:HB1	1:JB:715:ALA:HA	2.01	0.42
1:KB:129:PHE:CE1	1:KB:137:VAL:HG11	2.54	0.42
1:KB:714:MET:HA	1:KB:717:GLU:HB3	2.00	0.42
1:KB:758:GLU:HA	1:KB:761:ARG:HB3	2.01	0.42
1:LB:328:GLU:HG2	1:MB:394:LYS:HE2	2.01	0.42
1:LB:686:GLY:O	1:LB:690:ARG:HG3	2.19	0.42
1:LB:724:ALA:CA	1:MB:715:ALA:CB	2.97	0.42
1:NB:129:PHE:CE1	1:NB:137:VAL:HG11	2.54	0.42
1:NB:603:VAL:HG11	1:NB:638:VAL:HG21	2.01	0.42
1:NB:714:MET:HA	1:NB:717:GLU:HB3	2.01	0.42
1:OB:739:GLY:HA2	1:PB:734:ARG:HH21	1.78	0.42
1:PB:218:ALA:HA	1:PB:260:VAL:HA	2.00	0.42
1:QB:603:VAL:HG11	1:QB:638:VAL:HG21	2.01	0.42
1:RB:13:TYR:HB2	1:RB:49:ARG:HH22	1.84	0.42
1:RB:698:GLU:HA	1:RB:701:LYS:HD2	2.02	0.42
1:SB:129:PHE:CE1	1:SB:137:VAL:HG11	2.54	0.42
1:SB:686:GLY:O	1:SB:690:ARG:HG3	2.19	0.42
1:SB:731:GLU:OE1	1:SB:734:ARG:HG3	2.18	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:TB:129:PHE:CE1	1:TB:137:VAL:HG11	2.54	0.42
1:TB:770:LEU:HD21	1:TB:774:ARG:CZ	2.50	0.42
1:UB:129:PHE:CE1	1:UB:137:VAL:HG11	2.54	0.42
1:UB:686:GLY:O	1:UB:690:ARG:HG3	2.19	0.42
1:UB:698:GLU:HA	1:UB:701:LYS:HD2	2.02	0.42
1:VB:500:LEU:HD23	1:VB:500:LEU:HA	1.90	0.42
1:WB:709:LEU:HA	1:WB:709:LEU:HD23	1.82	0.42
1:XB:218:ALA:HA	1:XB:260:VAL:HA	2.00	0.42
1:XB:592:HIS:NE2	1:YB:584:ALA:HB1	2.34	0.42
1:XB:698:GLU:HA	1:XB:701:LYS:HD2	2.02	0.42
1:YB:54:PRO:HB2	1:YB:57:HIS:CE1	2.54	0.42
1:A:136:LYS:HD2	1:A:136:LYS:HA	1.86	0.42
1:A:223:GLU:OE2	1:A:224:LYS:NZ	2.42	0.42
1:A:573:LYS:HE2	1:NB:522:PHE:CG	2.55	0.42
1:A:761:ARG:NE	1:C:755:THR:HG21	2.35	0.42
1:B:209:PHE:CE2	1:B:210:GLU:HG3	2.55	0.42
1:B:545:TRP:HA	1:B:635:VAL:HA	2.02	0.42
1:C:286:ASP:OD1	1:C:297:GLY:N	2.47	0.42
1:D:9:ARG:CG	1:F:24:ASN:CG	2.87	0.42
1:D:13:TYR:HB2	1:D:49:ARG:HH22	1.84	0.42
1:D:72:SER:O	1:D:74:LEU:HD12	2.18	0.42
1:D:73:VAL:HG11	1:D:100:TYR:CZ	2.54	0.42
1:E:218:ALA:HA	1:E:260:VAL:HA	2.00	0.42
1:E:603:VAL:HG11	1:E:638:VAL:HG21	2.01	0.42
1:G:8:ILE:HD11	1:G:35:TYR:CD2	2.51	0.42
1:G:603:VAL:HG11	1:G:638:VAL:HG21	2.01	0.42
1:G:698:GLU:HA	1:G:701:LYS:HD2	2.02	0.42
1:I:58:TYR:CE1	1:I:153:PRO:HG2	2.55	0.42
1:I:603:VAL:HG11	1:I:638:VAL:HG21	2.01	0.42
1:J:704:LYS:NZ	1:J:705:GLU:OE2	2.52	0.42
1:J:770:LEU:HD21	1:J:774:ARG:CZ	2.50	0.42
1:K:16:ILE:HA	1:K:45:PHE:CE1	2.55	0.42
1:K:64:PRO:HD2	1:K:84:ARG:O	2.20	0.42
1:K:758:GLU:HA	1:K:761:ARG:HB3	2.01	0.42
1:M:129:PHE:CE1	1:M:137:VAL:HG11	2.54	0.42
1:N:13:TYR:HB2	1:N:49:ARG:HH22	1.84	0.42
1:N:16:ILE:HA	1:N:45:PHE:CE1	2.55	0.42
1:N:58:TYR:CE1	1:N:153:PRO:HG2	2.55	0.42
1:N:698:GLU:HA	1:N:701:LYS:HD2	2.02	0.42
1:O:13:TYR:HB2	1:O:49:ARG:HH22	1.84	0.42
1:O:64:PRO:HD2	1:O:84:ARG:O	2.20	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:O:394:LYS:HE3	1:O:394:LYS:HB2	1.87	0.42
1:O:521:ASP:OD1	1:O:522:PHE:N	2.44	0.42
1:P:698:GLU:HA	1:P:701:LYS:HD2	2.02	0.42
1:P:798:MET:HE1	1:R:795:PHE:CE2	2.53	0.42
1:Q:64:PRO:HD2	1:Q:84:ARG:O	2.20	0.42
1:Q:299:LYS:NZ	1:Q:317:GLU:OE2	2.32	0.42
1:R:174:LEU:HD11	1:R:212:VAL:HG13	2.00	0.42
1:R:707:LEU:HD23	1:R:707:LEU:HA	1.74	0.42
1:R:714:MET:HA	1:R:717:GLU:HB3	2.01	0.42
1:T:8:ILE:HD11	1:T:35:TYR:CD2	2.51	0.42
1:V:58:TYR:CE1	1:V:153:PRO:HG2	2.55	0.42
1:V:73:VAL:HG11	1:V:100:TYR:CZ	2.54	0.42
1:V:129:PHE:CD1	1:V:156:GLU:HG3	2.54	0.42
1:X:686:GLY:O	1:X:690:ARG:HG3	2.19	0.42
1:X:770:LEU:HD21	1:X:774:ARG:CZ	2.50	0.42
1:Z:13:TYR:HB2	1:Z:49:ARG:HH22	1.84	0.42
1:Z:204:TYR:OH	1:Z:210:GLU:OE2	2.30	0.42
1:BA:16:ILE:HA	1:BA:45:PHE:CE1	2.55	0.42
1:BA:54:PRO:HB2	1:BA:57:HIS:CE1	2.54	0.42
1:BA:58:TYR:CE1	1:BA:153:PRO:HG2	2.55	0.42
1:BA:129:PHE:CD1	1:BA:156:GLU:HG3	2.54	0.42
1:CA:758:GLU:HA	1:CA:761:ARG:HB3	2.01	0.42
1:DA:13:TYR:HB2	1:DA:49:ARG:HH22	1.84	0.42
1:DA:129:PHE:CE1	1:DA:137:VAL:HG11	2.54	0.42
1:EA:218:ALA:HA	1:EA:260:VAL:HA	2.00	0.42
1:EA:490:ASP:HB3	1:EA:491:PRO:HD2	2.01	0.42
1:EA:707:LEU:HD23	1:EA:707:LEU:HA	1.74	0.42
1:EA:814:GLY:HA2	1:EA:815:PRO:HD3	1.89	0.42
1:FA:537:LEU:HA	1:FA:645:PRO:HA	2.00	0.42
1:GA:490:ASP:N	1:GA:493:GLU:OE1	2.43	0.42
1:HA:129:PHE:CD1	1:HA:156:GLU:HG3	2.54	0.42
1:HA:714:MET:HA	1:HA:717:GLU:HB3	2.01	0.42
1:IA:310:LEU:HD23	1:IA:310:LEU:HA	1.92	0.42
1:IA:770:LEU:HD21	1:IA:774:ARG:CZ	2.50	0.42
1:KA:64:PRO:HD2	1:KA:84:ARG:O	2.20	0.42
1:KA:490:ASP:N	1:KA:493:GLU:OE1	2.42	0.42
1:MA:54:PRO:HB2	1:MA:57:HIS:CE1	2.54	0.42
1:MA:209:PHE:CE2	1:MA:210:GLU:HG3	2.55	0.42
1:MA:537:LEU:HA	1:MA:645:PRO:HA	2.00	0.42
1:NA:58:TYR:CE1	1:NA:153:PRO:HG2	2.55	0.42
1:NA:236:LYS:HE3	1:NA:236:LYS:HB2	1.77	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:NA:704:LYS:NZ	1:NA:705:GLU:OE2	2.52	0.42
1:OA:58:TYR:CE1	1:OA:153:PRO:HG2	2.55	0.42
1:OA:129:PHE:CD1	1:OA:156:GLU:HG3	2.54	0.42
1:PA:129:PHE:CD1	1:PA:156:GLU:HG3	2.54	0.42
1:QA:129:PHE:CG	1:QA:156:GLU:HG3	2.53	0.42
1:QA:758:GLU:HA	1:QA:761:ARG:HB3	2.01	0.42
1:RA:16:ILE:HA	1:RA:45:PHE:CE1	2.55	0.42
1:RA:64:PRO:HD2	1:RA:84:ARG:O	2.20	0.42
1:RA:686:GLY:O	1:RA:690:ARG:HG3	2.19	0.42
1:SA:16:ILE:HA	1:SA:45:PHE:CE1	2.55	0.42
1:SA:686:GLY:O	1:SA:690:ARG:HG3	2.19	0.42
1:TA:73:VAL:HG11	1:TA:100:TYR:CZ	2.54	0.42
1:TA:599:ILE:O	1:TA:603:VAL:HG23	2.18	0.42
1:TA:706:LEU:CD2	1:VA:693:ILE:HG23	2.49	0.42
1:TA:758:GLU:HA	1:TA:761:ARG:HB3	2.01	0.42
1:WA:537:LEU:HA	1:WA:645:PRO:HA	2.00	0.42
1:WA:770:LEU:HD21	1:WA:774:ARG:CZ	2.50	0.42
1:XA:58:TYR:CE1	1:XA:153:PRO:HG2	2.55	0.42
1:XA:521:ASP:OD1	1:XA:522:PHE:N	2.44	0.42
1:YA:72:SER:O	1:YA:74:LEU:HD12	2.18	0.42
1:ZA:73:VAL:HG11	1:ZA:100:TYR:CZ	2.54	0.42
1:ZA:686:GLY:O	1:ZA:690:ARG:HG3	2.19	0.42
1:ZA:758:GLU:HA	1:ZA:761:ARG:HB3	2.01	0.42
1:BB:129:PHE:CE1	1:BB:137:VAL:HG11	2.54	0.42
1:BB:394:LYS:HE3	1:BB:394:LYS:HB2	1.87	0.42
1:DB:129:PHE:CD1	1:DB:156:GLU:HG3	2.54	0.42
1:DB:595:SER:CB	1:EB:580:ARG:HH12	2.33	0.42
1:EB:129:PHE:CD1	1:EB:156:GLU:HG3	2.54	0.42
1:EB:129:PHE:CE1	1:EB:137:VAL:HG11	2.54	0.42
1:EB:709:LEU:HA	1:EB:709:LEU:HD23	1.82	0.42
1:GB:129:PHE:CE1	1:GB:137:VAL:HG11	2.54	0.42
1:HB:537:LEU:HA	1:HB:645:PRO:HA	2.00	0.42
1:IB:400:ALA:HB2	1:IB:491:PRO:HD3	2.00	0.42
1:KB:58:TYR:CE1	1:KB:153:PRO:HG2	2.55	0.42
1:LB:54:PRO:HB2	1:LB:57:HIS:CE1	2.54	0.42
1:LB:714:MET:HA	1:LB:717:GLU:HB3	2.00	0.42
1:MB:218:ALA:HA	1:MB:260:VAL:HA	2.00	0.42
1:OB:170:GLN:CB	1:PB:233:GLN:OE1	2.66	0.42
1:OB:545:TRP:HA	1:OB:635:VAL:HA	2.02	0.42
1:OB:770:LEU:HD21	1:OB:774:ARG:CZ	2.50	0.42
1:PB:64:PRO:HD2	1:PB:84:ARG:O	2.20	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:PB:537:LEU:HA	1:PB:645:PRO:HA	2.00	0.42
1:PB:770:LEU:HD21	1:PB:774:ARG:CZ	2.50	0.42
1:QB:64:PRO:HD2	1:QB:84:ARG:O	2.20	0.42
1:QB:709:LEU:HA	1:QB:709:LEU:HD23	1.82	0.42
1:RB:16:ILE:HA	1:RB:45:PHE:CE1	2.55	0.42
1:TB:686:GLY:O	1:TB:690:ARG:HG3	2.19	0.42
1:TB:704:LYS:NZ	1:TB:705:GLU:OE2	2.52	0.42
1:UB:545:TRP:HA	1:UB:635:VAL:HA	2.02	0.42
1:UB:587:THR:HG1	1:UB:588:PHE:H	1.65	0.42
1:WB:209:PHE:CE2	1:WB:210:GLU:HG3	2.55	0.42
1:XB:73:VAL:HG11	1:XB:100:TYR:CZ	2.54	0.42
1:XB:339:PRO:HD3	1:XB:353:ALA:HB2	2.02	0.42
1:XB:770:LEU:HD21	1:XB:774:ARG:CZ	2.50	0.42
1:YB:64:PRO:HD2	1:YB:84:ARG:O	2.20	0.42
1:AC:58:TYR:CE1	1:AC:153:PRO:HG2	2.55	0.42
1:AC:123:LEU:HD23	1:AC:123:LEU:HA	1.93	0.42
1:A:13:TYR:HB2	1:A:49:ARG:HH22	1.84	0.42
1:A:64:PRO:HD2	1:A:84:ARG:O	2.20	0.42
1:A:174:LEU:HD12	1:A:174:LEU:HA	1.92	0.42
1:A:490:ASP:HB3	1:A:491:PRO:HD2	2.01	0.42
1:D:136:LYS:HD2	1:D:136:LYS:HA	1.86	0.42
1:D:542:ALA:HB2	1:F:573:LYS:CE	2.50	0.42
1:E:13:TYR:HB2	1:E:49:ARG:HH22	1.84	0.42
1:E:587:THR:HG1	1:E:588:PHE:H	1.68	0.42
1:E:709:LEU:HA	1:E:709:LEU:HD23	1.82	0.42
1:F:129:PHE:CE1	1:F:137:VAL:HG11	2.54	0.42
1:G:136:LYS:HD2	1:G:136:LYS:HA	1.86	0.42
1:G:521:ASP:OD1	1:G:522:PHE:N	2.44	0.42
1:G:545:TRP:HA	1:G:635:VAL:HA	2.02	0.42
1:I:73:VAL:HG11	1:I:100:TYR:CZ	2.54	0.42
1:I:209:PHE:CE2	1:I:210:GLU:HG3	2.55	0.42
1:I:704:LYS:NZ	1:I:705:GLU:OE2	2.52	0.42
1:J:129:PHE:CD1	1:J:156:GLU:HG3	2.54	0.42
1:J:420:PRO:O	1:J:421:SER:OG	2.36	0.42
1:J:686:GLY:O	1:J:690:ARG:HG3	2.19	0.42
1:J:758:GLU:HA	1:J:761:ARG:HB3	2.01	0.42
1:N:129:PHE:CD1	1:N:156:GLU:HG3	2.55	0.42
1:O:73:VAL:HG11	1:O:100:TYR:CZ	2.54	0.42
1:O:209:PHE:CE2	1:O:210:GLU:HG3	2.55	0.42
1:O:686:GLY:O	1:O:690:ARG:HG3	2.19	0.42
1:P:603:VAL:HG11	1:P:638:VAL:HG21	2.01	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:P:714:MET:HA	1:P:717:GLU:HB3	2.00	0.42
1:Q:16:ILE:HA	1:Q:45:PHE:CE1	2.55	0.42
1:R:64:PRO:HD2	1:R:84:ARG:O	2.20	0.42
1:R:209:PHE:CE2	1:R:210:GLU:HG3	2.55	0.42
1:R:651:ARG:C	1:R:653:ALA:H	2.17	0.42
1:S:129:PHE:CD1	1:S:156:GLU:HG3	2.54	0.42
1:S:209:PHE:CE2	1:S:210:GLU:HG3	2.55	0.42
1:S:537:LEU:HA	1:S:645:PRO:HA	2.00	0.42
1:S:698:GLU:HA	1:S:701:LYS:HD2	2.02	0.42
1:T:129:PHE:CE1	1:T:137:VAL:HG11	2.54	0.42
1:T:537:LEU:HA	1:T:645:PRO:HA	2.00	0.42
1:V:209:PHE:CE2	1:V:210:GLU:HG3	2.55	0.42
1:V:686:GLY:O	1:V:690:ARG:HG3	2.19	0.42
1:W:58:TYR:CE1	1:W:153:PRO:HG2	2.55	0.42
1:W:758:GLU:HA	1:W:761:ARG:HB3	2.01	0.42
1:X:814:GLY:HA2	1:X:815:PRO:HD3	1.89	0.42
1:Y:129:PHE:CD1	1:Y:156:GLU:HG3	2.54	0.42
1:Z:209:PHE:CE2	1:Z:210:GLU:HG3	2.55	0.42
1:AA:58:TYR:CE1	1:AA:153:PRO:HG2	2.55	0.42
1:AA:707:LEU:HD23	1:AA:707:LEU:HA	1.74	0.42
1:CA:714:MET:HA	1:CA:717:GLU:HB3	2.01	0.42
1:DA:490:ASP:HB3	1:DA:491:PRO:HD2	2.01	0.42
1:EA:54:PRO:HB2	1:EA:57:HIS:CE1	2.54	0.42
1:EA:174:LEU:HD12	1:EA:174:LEU:HA	1.92	0.42
1:FA:16:ILE:HA	1:FA:45:PHE:CE1	2.55	0.42
1:GA:129:PHE:CE1	1:GA:137:VAL:HG11	2.54	0.42
1:GA:209:PHE:CE2	1:GA:210:GLU:HG3	2.55	0.42
1:GA:654:LEU:HD23	1:GA:654:LEU:HA	1.84	0.42
1:HA:58:TYR:CE1	1:HA:153:PRO:HG2	2.55	0.42
1:HA:64:PRO:HD2	1:HA:84:ARG:O	2.20	0.42
1:IA:698:GLU:HA	1:IA:701:LYS:HD2	2.02	0.42
1:JA:58:TYR:CE1	1:JA:153:PRO:HG2	2.55	0.42
1:KA:504:ARG:HH22	1:KA:524:THR:HG1	1.67	0.42
1:LA:16:ILE:HA	1:LA:45:PHE:CE1	2.55	0.42
1:LA:61:VAL:H	1:LA:88:GLN:HE22	1.65	0.42
1:NA:758:GLU:HA	1:NA:761:ARG:HB3	2.01	0.42
1:OA:129:PHE:CE1	1:OA:137:VAL:HG11	2.54	0.42
1:OA:339:PRO:HD3	1:OA:353:ALA:HB2	2.02	0.42
1:PA:61:VAL:H	1:PA:88:GLN:HE22	1.65	0.42
1:PA:129:PHE:CE1	1:PA:137:VAL:HG11	2.54	0.42
1:QA:64:PRO:HD2	1:QA:84:ARG:O	2.20	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:RA:58:TYR:CE1	1:RA:153:PRO:HG2	2.55	0.42
1:TA:391:GLN:HB2	1:TA:415:TRP:HB2	2.00	0.42
1:UA:209:PHE:CE2	1:UA:210:GLU:HG3	2.55	0.42
1:UA:219:VAL:HG22	1:UA:259:HIS:O	2.20	0.42
1:VA:54:PRO:HB2	1:VA:57:HIS:CE1	2.54	0.42
1:VA:742:LEU:HD12	1:VA:742:LEU:HA	1.86	0.42
1:WA:545:TRP:HA	1:WA:635:VAL:HA	2.02	0.42
1:XA:54:PRO:HB2	1:XA:57:HIS:CE1	2.54	0.42
1:YA:129:PHE:CG	1:YA:156:GLU:HG3	2.53	0.42
1:YA:714:MET:HA	1:YA:717:GLU:HB3	2.00	0.42
1:ZA:54:PRO:HB2	1:ZA:57:HIS:CE1	2.54	0.42
1:ZA:64:PRO:HD2	1:ZA:84:ARG:O	2.20	0.42
1:ZA:695:ASP:HB3	1:BB:686:GLY:CA	2.50	0.42
1:AB:129:PHE:CE1	1:AB:137:VAL:HG11	2.54	0.42
1:AB:714:MET:HA	1:AB:717:GLU:HB3	2.01	0.42
1:BB:709:LEU:HA	1:BB:709:LEU:HD23	1.82	0.42
1:CB:770:LEU:HD21	1:CB:774:ARG:CZ	2.50	0.42
1:EB:16:ILE:HA	1:EB:45:PHE:CE1	2.55	0.42
1:EB:310:LEU:HD23	1:EB:310:LEU:HA	1.92	0.42
1:EB:490:ASP:HB3	1:EB:491:PRO:HD2	2.01	0.42
1:EB:587:THR:HG1	1:EB:588:PHE:H	1.68	0.42
1:FB:117:PRO:HG2	1:GB:180:LYS:HD3	2.01	0.42
1:FB:218:ALA:HA	1:FB:260:VAL:HA	2.00	0.42
1:FB:742:LEU:HD12	1:FB:742:LEU:HA	1.86	0.42
1:GB:16:ILE:HA	1:GB:45:PHE:CE1	2.55	0.42
1:HB:16:ILE:HA	1:HB:45:PHE:CE1	2.55	0.42
1:IB:174:LEU:HD12	1:IB:174:LEU:HA	1.92	0.42
1:JB:686:GLY:O	1:JB:690:ARG:HG3	2.19	0.42
1:KB:61:VAL:H	1:KB:88:GLN:HE22	1.66	0.42
1:KB:704:LYS:NZ	1:KB:705:GLU:OE2	2.52	0.42
1:KB:770:LEU:HD21	1:KB:774:ARG:CZ	2.50	0.42
1:LB:129:PHE:CE1	1:LB:137:VAL:HG11	2.54	0.42
1:LB:209:PHE:CE2	1:LB:210:GLU:HG3	2.55	0.42
1:MB:209:PHE:CE2	1:MB:210:GLU:HG3	2.55	0.42
1:MB:651:ARG:C	1:MB:653:ALA:H	2.17	0.42
1:NB:16:ILE:HA	1:NB:45:PHE:CE1	2.55	0.42
1:NB:64:PRO:HD2	1:NB:84:ARG:O	2.20	0.42
1:NB:129:PHE:CD1	1:NB:156:GLU:HG3	2.54	0.42
1:NB:654:LEU:HA	1:NB:654:LEU:HD23	1.84	0.42
1:NB:770:LEU:HD21	1:NB:774:ARG:CZ	2.50	0.42
1:OB:405:THR:H	1:PB:396:GLY:N	2.18	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:OB:522:PHE:CB	1:PB:573:LYS:HE2	2.29	0.42
1:PB:129:PHE:CD1	1:PB:156:GLU:HG3	2.54	0.42
1:PB:698:GLU:HA	1:PB:701:LYS:HD2	2.02	0.42
1:QB:13:TYR:HB2	1:QB:49:ARG:HH22	1.84	0.42
1:QB:339:PRO:HD3	1:QB:353:ALA:HB2	2.02	0.42
1:QB:400:ALA:HB2	1:QB:491:PRO:HD3	2.00	0.42
1:RB:603:VAL:HG11	1:RB:638:VAL:HG21	2.01	0.42
1:RB:687:ARG:NH1	1:SB:679:ARG:HH11	2.16	0.42
1:TB:64:PRO:HD2	1:TB:84:ARG:O	2.20	0.42
1:TB:218:ALA:HA	1:TB:260:VAL:HA	2.00	0.42
1:UB:746:LEU:HD13	1:VB:740:SER:CB	2.49	0.42
1:WB:587:THR:HG1	1:WB:588:PHE:N	2.17	0.42
1:WB:704:LYS:NZ	1:WB:705:GLU:OE2	2.52	0.42
1:WB:738:GLU:OE2	1:XB:734:ARG:NH1	2.52	0.42
1:XB:704:LYS:NZ	1:XB:705:GLU:OE2	2.52	0.42
1:YB:506:LYS:HD3	1:YB:506:LYS:HA	1.82	0.42
1:ZB:16:ILE:HA	1:ZB:45:PHE:CE1	2.55	0.42
1:ZB:129:PHE:CD1	1:ZB:156:GLU:HG3	2.55	0.42
1:ZB:209:PHE:CE2	1:ZB:210:GLU:HG3	2.55	0.42
1:ZB:219:VAL:HG22	1:ZB:259:HIS:O	2.20	0.42
1:ZB:758:GLU:HA	1:ZB:761:ARG:HB3	2.01	0.42
1:AC:218:ALA:HA	1:AC:260:VAL:HA	2.00	0.42
1:AC:339:PRO:HD3	1:AC:353:ALA:HB2	2.02	0.42
1:AC:686:GLY:O	1:AC:690:ARG:HG3	2.19	0.42
1:AC:758:GLU:HA	1:AC:761:ARG:HB3	2.01	0.42
1:A:16:ILE:HA	1:A:45:PHE:CE1	2.55	0.42
1:A:129:PHE:CG	1:A:156:GLU:HG3	2.53	0.42
1:A:704:LYS:NZ	1:A:705:GLU:OE2	2.52	0.42
1:C:16:ILE:HA	1:C:45:PHE:CE1	2.55	0.42
1:D:203:ALA:HB3	1:F:181:GLU:CG	2.50	0.42
1:D:714:MET:HA	1:D:717:GLU:HB3	2.01	0.42
1:E:54:PRO:HB2	1:E:57:HIS:CE1	2.54	0.42
1:E:129:PHE:CE1	1:E:137:VAL:HG11	2.54	0.42
1:E:236:LYS:HE3	1:E:236:LYS:HB2	1.77	0.42
1:E:651:ARG:C	1:E:653:ALA:H	2.17	0.42
1:E:714:MET:HA	1:E:717:GLU:HB3	2.00	0.42
1:F:64:PRO:HD2	1:F:84:ARG:O	2.20	0.42
1:F:129:PHE:CD1	1:F:156:GLU:HG3	2.54	0.42
1:F:209:PHE:CE2	1:F:210:GLU:HG3	2.55	0.42
1:F:339:PRO:HD3	1:F:353:ALA:HB2	2.02	0.42
1:G:54:PRO:HB2	1:G:57:HIS:CE1	2.54	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:209:PHE:CE2	1:G:210:GLU:HG3	2.55	0.42
1:G:707:LEU:HD23	1:G:707:LEU:HA	1.74	0.42
1:I:707:LEU:HD23	1:I:707:LEU:HA	1.74	0.42
1:J:58:TYR:CE1	1:J:153:PRO:HG2	2.55	0.42
1:K:58:TYR:CE1	1:K:153:PRO:HG2	2.55	0.42
1:M:714:MET:HA	1:M:717:GLU:HB3	2.00	0.42
1:O:490:ASP:HB3	1:O:491:PRO:HD2	2.01	0.42
1:P:394:LYS:HE3	1:P:394:LYS:HB2	1.87	0.42
1:P:490:ASP:HB3	1:P:491:PRO:HD2	2.01	0.42
1:P:545:TRP:HA	1:P:635:VAL:HA	2.02	0.42
1:Q:490:ASP:HB3	1:Q:491:PRO:HD2	2.01	0.42
1:S:73:VAL:HG11	1:S:100:TYR:CZ	2.54	0.42
1:S:129:PHE:CE1	1:S:137:VAL:HG11	2.54	0.42
1:S:219:VAL:HG22	1:S:259:HIS:O	2.20	0.42
1:S:704:LYS:NZ	1:S:705:GLU:OE2	2.52	0.42
1:T:16:ILE:HA	1:T:45:PHE:CE1	2.55	0.42
1:T:339:PRO:HD3	1:T:353:ALA:HB2	2.02	0.42
1:V:400:ALA:HB2	1:V:491:PRO:HD3	2.00	0.42
1:V:742:LEU:HD12	1:V:742:LEU:HA	1.86	0.42
1:W:64:PRO:HD2	1:W:84:ARG:O	2.20	0.42
1:W:219:VAL:HG22	1:W:259:HIS:O	2.20	0.42
1:W:651:ARG:C	1:W:653:ALA:H	2.17	0.42
1:X:129:PHE:CE1	1:X:137:VAL:HG11	2.54	0.42
1:Z:129:PHE:CD1	1:Z:156:GLU:HG3	2.54	0.42
1:Z:714:MET:HA	1:Z:717:GLU:HB3	2.01	0.42
1:AA:16:ILE:HA	1:AA:45:PHE:CE1	2.55	0.42
1:AA:64:PRO:HD2	1:AA:84:ARG:O	2.20	0.42
1:BA:129:PHE:CE1	1:BA:137:VAL:HG11	2.54	0.42
1:BA:758:GLU:HA	1:BA:761:ARG:HB3	2.01	0.42
1:DA:54:PRO:HB2	1:DA:57:HIS:CE1	2.54	0.42
1:EA:16:ILE:HA	1:EA:45:PHE:CE1	2.55	0.42
1:EA:58:TYR:CE1	1:EA:153:PRO:HG2	2.55	0.42
1:EA:587:THR:HG1	1:EA:588:PHE:N	2.17	0.42
1:EA:770:LEU:HD21	1:EA:774:ARG:CZ	2.50	0.42
1:FA:591:PHE:CD1	1:FA:598:ILE:HD11	2.42	0.42
1:HA:651:ARG:C	1:HA:653:ALA:H	2.17	0.42
1:IA:58:TYR:CE1	1:IA:153:PRO:HG2	2.55	0.42
1:IA:490:ASP:N	1:IA:493:GLU:OE1	2.43	0.42
1:JA:339:PRO:HD3	1:JA:353:ALA:HB2	2.02	0.42
1:KA:54:PRO:HB2	1:KA:57:HIS:CE1	2.54	0.42
1:LA:339:PRO:HD3	1:LA:353:ALA:HB2	2.02	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:MA:72:SER:O	1:MA:74:LEU:HD12	2.18	0.42
1:MA:204:TYR:OH	1:MA:210:GLU:OE2	2.30	0.42
1:MA:219:VAL:HG22	1:MA:259:HIS:O	2.20	0.42
1:NA:13:TYR:HB2	1:NA:49:ARG:HH22	1.84	0.42
1:OA:545:TRP:HA	1:OA:635:VAL:HA	2.02	0.42
1:OA:758:GLU:HA	1:OA:761:ARG:HB3	2.01	0.42
1:PA:318:ARG:HB2	1:PA:321:GLN:OE1	2.20	0.42
1:PA:704:LYS:NZ	1:PA:705:GLU:OE2	2.52	0.42
1:QA:219:VAL:HG22	1:QA:259:HIS:O	2.20	0.42
1:QA:521:ASP:OD1	1:QA:522:PHE:N	2.44	0.42
1:RA:54:PRO:HB2	1:RA:57:HIS:CE1	2.54	0.42
1:RA:73:VAL:HG11	1:RA:100:TYR:CZ	2.54	0.42
1:RA:698:GLU:HA	1:RA:701:LYS:HD2	2.02	0.42
1:SA:758:GLU:HA	1:SA:761:ARG:HB3	2.01	0.42
1:SA:770:LEU:HD21	1:SA:774:ARG:CZ	2.50	0.42
1:TA:54:PRO:HB2	1:TA:57:HIS:CE1	2.54	0.42
1:UA:129:PHE:CE1	1:UA:137:VAL:HG11	2.54	0.42
1:UA:714:MET:HA	1:UA:717:GLU:HB3	2.00	0.42
1:VA:129:PHE:CD1	1:VA:156:GLU:HG3	2.54	0.42
1:VA:545:TRP:HA	1:VA:635:VAL:HA	2.02	0.42
1:WA:64:PRO:HD2	1:WA:84:ARG:O	2.20	0.42
1:WA:73:VAL:HG11	1:WA:100:TYR:CZ	2.54	0.42
1:XA:490:ASP:N	1:XA:493:GLU:OE1	2.42	0.42
1:YA:8:ILE:HD11	1:YA:35:TYR:CD2	2.51	0.42
1:YA:770:LEU:HD21	1:YA:774:ARG:CZ	2.50	0.42
1:ZA:129:PHE:CG	1:ZA:156:GLU:HG3	2.53	0.42
1:ZA:209:PHE:CE2	1:ZA:210:GLU:HG3	2.55	0.42
1:AB:60:ILE:HD13	1:AB:107:LYS:HB3	2.02	0.42
1:AB:704:LYS:NZ	1:AB:705:GLU:OE2	2.52	0.42
1:BB:13:TYR:HB2	1:BB:49:ARG:HH22	1.84	0.42
1:BB:54:PRO:HB2	1:BB:57:HIS:CE1	2.54	0.42
1:BB:129:PHE:CD1	1:BB:156:GLU:HG3	2.55	0.42
1:CB:54:PRO:HB2	1:CB:57:HIS:CE1	2.54	0.42
1:CB:64:PRO:HD2	1:CB:84:ARG:O	2.20	0.42
1:DB:54:PRO:HB2	1:DB:57:HIS:CE1	2.54	0.42
1:DB:64:PRO:HD2	1:DB:84:ARG:O	2.20	0.42
1:DB:490:ASP:HB3	1:DB:491:PRO:HD2	2.01	0.42
1:DB:490:ASP:N	1:DB:493:GLU:OE1	2.43	0.42
1:EB:58:TYR:CE1	1:EB:153:PRO:HG2	2.55	0.42
1:EB:377:ARG:HD3	1:EB:377:ARG:HA	1.93	0.42
1:EB:603:VAL:HG11	1:EB:638:VAL:HG21	2.01	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:EB:770:LEU:HD21	1:EB:774:ARG:CZ	2.50	0.42
1:FB:275:THR:OG1	1:GB:296:LEU:O	2.33	0.42
1:FB:339:PRO:HD3	1:FB:353:ALA:HB2	2.02	0.42
1:GB:339:PRO:HD3	1:GB:353:ALA:HB2	2.02	0.42
1:JB:129:PHE:CD1	1:JB:156:GLU:HG3	2.55	0.42
1:JB:506:LYS:HD3	1:JB:506:LYS:HA	1.81	0.42
1:KB:129:PHE:CD1	1:KB:156:GLU:HG3	2.54	0.42
1:KB:814:GLY:HA2	1:KB:815:PRO:HD3	1.89	0.42
1:LB:218:ALA:HA	1:LB:260:VAL:HA	2.00	0.42
1:MB:129:PHE:CD1	1:MB:156:GLU:HG3	2.54	0.42
1:MB:339:PRO:HD3	1:MB:353:ALA:HB2	2.02	0.42
1:NB:339:PRO:HD3	1:NB:353:ALA:HB2	2.02	0.42
1:OB:16:ILE:HA	1:OB:45:PHE:CE1	2.55	0.42
1:OB:58:TYR:CE1	1:OB:153:PRO:HG2	2.55	0.42
1:OB:73:VAL:HG11	1:OB:100:TYR:CZ	2.54	0.42
1:OB:698:GLU:HA	1:OB:701:LYS:HD2	2.02	0.42
1:QB:16:ILE:HA	1:QB:45:PHE:CE1	2.55	0.42
1:QB:58:TYR:CE1	1:QB:153:PRO:HG2	2.55	0.42
1:QB:286:ASP:OD1	1:QB:297:GLY:N	2.47	0.42
1:RB:695:ASP:HB3	1:SB:686:GLY:HA2	2.00	0.42
1:TB:123:LEU:HD23	1:TB:123:LEU:HA	1.93	0.42
1:TB:209:PHE:CE2	1:TB:210:GLU:HG3	2.55	0.42
1:TB:707:LEU:HD23	1:TB:707:LEU:HA	1.74	0.42
1:UB:64:PRO:HD2	1:UB:84:ARG:O	2.20	0.42
1:UB:801:ALA:HB3	1:VB:799:THR:CB	2.49	0.42
1:VB:73:VAL:HG11	1:VB:100:TYR:CZ	2.54	0.42
1:VB:686:GLY:O	1:VB:690:ARG:HG3	2.19	0.42
1:VB:698:GLU:HA	1:VB:701:LYS:HD2	2.02	0.42
1:VB:714:MET:HA	1:VB:717:GLU:HB3	2.01	0.42
1:WB:698:GLU:HA	1:WB:701:LYS:HD2	2.02	0.42
1:WB:770:LEU:HD21	1:WB:774:ARG:CZ	2.50	0.42
1:XB:8:ILE:HD11	1:XB:35:TYR:CD2	2.51	0.42
1:XB:13:TYR:HB2	1:XB:49:ARG:HH22	1.84	0.42
1:XB:54:PRO:HB2	1:XB:57:HIS:CE1	2.54	0.42
1:YB:13:TYR:HB2	1:YB:49:ARG:HH22	1.84	0.42
1:YB:129:PHE:CD1	1:YB:156:GLU:HG3	2.54	0.42
1:YB:490:ASP:HB3	1:YB:491:PRO:HD2	2.01	0.42
1:ZB:58:TYR:CE1	1:ZB:153:PRO:HG2	2.55	0.42
1:AC:490:ASP:HB3	1:AC:491:PRO:HD2	2.01	0.42
1:A:310:LEU:HD23	1:A:310:LEU:HA	1.92	0.42
1:A:545:TRP:HA	1:A:635:VAL:HA	2.02	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:64:PRO:HD2	1:B:84:ARG:O	2.20	0.42
1:B:770:LEU:HD21	1:B:774:ARG:CZ	2.50	0.42
1:C:129:PHE:CD1	1:C:156:GLU:HG3	2.54	0.42
1:D:219:VAL:HG22	1:D:259:HIS:O	2.20	0.42
1:D:236:LYS:HE3	1:D:236:LYS:HB2	1.77	0.42
1:D:592:HIS:CE1	1:F:580:ARG:HH11	2.37	0.42
1:E:537:LEU:HA	1:E:645:PRO:HA	2.00	0.42
1:F:16:ILE:HA	1:F:45:PHE:CE1	2.55	0.42
1:G:224:LYS:CD	1:I:296:LEU:HD11	2.41	0.42
1:H:802:LEU:HD21	1:J:795:PHE:HE2	1.85	0.42
1:I:8:ILE:HD11	1:I:35:TYR:CD2	2.51	0.42
1:I:814:GLY:HA2	1:I:815:PRO:HD3	1.89	0.42
1:J:537:LEU:HA	1:J:645:PRO:HA	2.00	0.42
1:J:591:PHE:CD1	1:J:598:ILE:HD11	2.43	0.42
1:J:654:LEU:HA	1:J:654:LEU:HD23	1.84	0.42
1:K:219:VAL:HG22	1:K:259:HIS:O	2.20	0.42
1:L:537:LEU:HA	1:L:645:PRO:HA	2.00	0.42
1:M:58:TYR:CE1	1:M:153:PRO:HG2	2.55	0.42
1:M:64:PRO:HD2	1:M:84:ARG:O	2.20	0.42
1:M:698:GLU:HA	1:M:701:LYS:HD2	2.02	0.42
1:N:209:PHE:CE2	1:N:210:GLU:HG3	2.55	0.42
1:N:219:VAL:HG22	1:N:259:HIS:O	2.20	0.42
1:N:328:GLU:HG2	1:P:394:LYS:HG3	2.01	0.42
1:O:123:LEU:HD23	1:O:123:LEU:HA	1.93	0.42
1:O:219:VAL:HG22	1:O:259:HIS:O	2.20	0.42
1:P:13:TYR:HB2	1:P:49:ARG:HH22	1.84	0.42
1:P:709:LEU:HA	1:P:709:LEU:HD23	1.82	0.42
1:Q:339:PRO:HD3	1:Q:353:ALA:HB2	2.02	0.42
1:R:73:VAL:HG11	1:R:100:TYR:CZ	2.54	0.42
1:R:136:LYS:HD2	1:R:136:LYS:HA	1.86	0.42
1:R:219:VAL:HG22	1:R:259:HIS:O	2.20	0.42
1:S:16:ILE:HA	1:S:45:PHE:CE1	2.55	0.42
1:S:136:LYS:HA	1:S:136:LYS:HD2	1.86	0.42
1:T:702:ALA:HB3	1:W:693:ILE:HG21	2.02	0.42
1:W:60:ILE:HD13	1:W:107:LYS:HB3	2.02	0.42
1:X:16:ILE:HA	1:X:45:PHE:CE1	2.55	0.42
1:X:60:ILE:HD13	1:X:107:LYS:HB3	2.02	0.42
1:X:218:ALA:HA	1:X:260:VAL:HA	2.00	0.42
1:X:286:ASP:OD1	1:X:297:GLY:N	2.47	0.42
1:X:318:ARG:HB2	1:X:321:GLN:OE1	2.20	0.42
1:Y:16:ILE:HA	1:Y:45:PHE:CE1	2.55	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Y:64:PRO:HD2	1:Y:84:ARG:O	2.20	0.42
1:Y:209:PHE:CE2	1:Y:210:GLU:HG3	2.55	0.42
1:Y:318:ARG:HB2	1:Y:321:GLN:OE1	2.20	0.42
1:Y:814:GLY:HA2	1:Y:815:PRO:HD3	1.89	0.42
1:Z:545:TRP:HA	1:Z:635:VAL:HA	2.02	0.42
1:AA:236:LYS:HE3	1:AA:236:LYS:HB2	1.77	0.42
1:AA:506:LYS:HD3	1:AA:506:LYS:HA	1.81	0.42
1:AA:770:LEU:HD21	1:AA:774:ARG:CZ	2.50	0.42
1:CA:58:TYR:CE1	1:CA:153:PRO:HG2	2.55	0.42
1:CA:219:VAL:HG22	1:CA:259:HIS:O	2.20	0.42
1:CA:318:ARG:HB2	1:CA:321:GLN:OE1	2.20	0.42
1:CA:603:VAL:HG11	1:CA:638:VAL:HG21	2.01	0.42
1:DA:64:PRO:HD2	1:DA:84:ARG:O	2.20	0.42
1:FA:545:TRP:HA	1:FA:635:VAL:HA	2.02	0.42
1:GA:54:PRO:HB2	1:GA:57:HIS:CE1	2.54	0.42
1:GA:64:PRO:HD2	1:GA:84:ARG:O	2.20	0.42
1:GA:236:LYS:HE3	1:GA:236:LYS:HB2	1.77	0.42
1:HA:521:ASP:OD1	1:HA:522:PHE:N	2.44	0.42
1:HA:704:LYS:NZ	1:HA:705:GLU:OE2	2.52	0.42
1:IA:60:ILE:HD13	1:IA:107:LYS:HB3	2.02	0.42
1:IA:129:PHE:CE1	1:IA:137:VAL:HG11	2.54	0.42
1:IA:219:VAL:HG22	1:IA:259:HIS:O	2.20	0.42
1:JA:129:PHE:CE1	1:JA:137:VAL:HG11	2.54	0.42
1:JA:219:VAL:HG22	1:JA:259:HIS:O	2.20	0.42
1:JA:814:GLY:HA2	1:JA:815:PRO:HD3	1.89	0.42
1:KA:318:ARG:HB2	1:KA:321:GLN:OE1	2.20	0.42
1:KA:603:VAL:HG11	1:KA:638:VAL:HG21	2.01	0.42
1:LA:8:ILE:HD11	1:LA:35:TYR:CD2	2.51	0.42
1:LA:73:VAL:HG11	1:LA:100:TYR:CZ	2.54	0.42
1:LA:545:TRP:HA	1:LA:635:VAL:HA	2.02	0.42
1:LA:770:LEU:HD21	1:LA:774:ARG:CZ	2.50	0.42
1:MA:339:PRO:HD3	1:MA:353:ALA:HB2	2.02	0.42
1:PA:16:ILE:HA	1:PA:45:PHE:CE1	2.55	0.42
1:PA:219:VAL:HG22	1:PA:259:HIS:O	2.20	0.42
1:RA:129:PHE:CE1	1:RA:137:VAL:HG11	2.54	0.42
1:RA:490:ASP:HB3	1:RA:491:PRO:HD2	2.01	0.42
1:SA:58:TYR:CE1	1:SA:153:PRO:HG2	2.55	0.42
1:SA:394:LYS:HE3	1:SA:394:LYS:HB2	1.87	0.42
1:TA:770:LEU:HD21	1:TA:774:ARG:CZ	2.50	0.42
1:UA:704:LYS:NZ	1:UA:705:GLU:OE2	2.52	0.42
1:VA:758:GLU:HA	1:VA:761:ARG:HB3	2.01	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:XA:654:LEU:HA	1:XA:654:LEU:HD23	1.84	0.42
1:YA:209:PHE:CE2	1:YA:210:GLU:HG3	2.55	0.42
1:ZA:58:TYR:CE1	1:ZA:153:PRO:HG2	2.55	0.42
1:ZA:339:PRO:HD3	1:ZA:353:ALA:HB2	2.02	0.42
1:AB:219:VAL:HG22	1:AB:259:HIS:O	2.20	0.42
1:AB:603:VAL:HG11	1:AB:638:VAL:HG21	2.01	0.42
1:BB:506:LYS:HA	1:BB:506:LYS:HD3	1.81	0.42
1:CB:174:LEU:HD12	1:CB:174:LEU:HA	1.92	0.42
1:DB:73:VAL:HG11	1:DB:100:TYR:CZ	2.54	0.42
1:DB:219:VAL:HG22	1:DB:259:HIS:O	2.20	0.42
1:DB:318:ARG:HB2	1:DB:321:GLN:OE1	2.20	0.42
1:DB:681:GLU:OE1	1:EB:675:HIS:NE2	2.53	0.42
1:DB:758:GLU:HA	1:DB:761:ARG:HB3	2.01	0.42
1:EB:209:PHE:CE2	1:EB:210:GLU:HG3	2.55	0.42
1:EB:599:ILE:O	1:EB:603:VAL:HG23	2.18	0.42
1:FB:129:PHE:CD1	1:FB:156:GLU:HG3	2.54	0.42
1:HB:13:TYR:HB2	1:HB:49:ARG:HH22	1.84	0.42
1:HB:64:PRO:HD2	1:HB:84:ARG:O	2.20	0.42
1:IB:218:ALA:HA	1:IB:260:VAL:HA	2.00	0.42
1:JB:58:TYR:CE1	1:JB:153:PRO:HG2	2.55	0.42
1:JB:64:PRO:HD2	1:JB:84:ARG:O	2.20	0.42
1:JB:339:PRO:HD3	1:JB:353:ALA:HB2	2.02	0.42
1:JB:545:TRP:HA	1:JB:635:VAL:HA	2.02	0.42
1:KB:8:ILE:HD11	1:KB:35:TYR:CD2	2.51	0.42
1:LB:60:ILE:HD13	1:LB:107:LYS:HB3	2.02	0.42
1:LB:545:TRP:HA	1:LB:635:VAL:HA	2.02	0.42
1:NB:73:VAL:HG11	1:NB:100:TYR:CZ	2.54	0.42
1:NB:686:GLY:O	1:NB:690:ARG:HG3	2.19	0.42
1:OB:273:ILE:HG12	1:PB:296:LEU:HD22	2.01	0.42
1:OB:327:SER:HB3	1:PB:356:CYS:SG	2.59	0.42
1:OB:382:LEU:N	1:PB:391:GLN:NE2	2.67	0.42
1:OB:383:ASP:OD2	1:PB:415:TRP:CZ2	2.73	0.42
1:PB:591:PHE:CD1	1:PB:598:ILE:HD11	2.42	0.42
1:RB:209:PHE:CE2	1:RB:210:GLU:HG3	2.55	0.42
1:RB:545:TRP:HA	1:RB:635:VAL:HA	2.02	0.42
1:SB:129:PHE:CD1	1:SB:156:GLU:HG3	2.54	0.42
1:SB:209:PHE:CE2	1:SB:210:GLU:HG3	2.55	0.42
1:SB:236:LYS:HE3	1:SB:236:LYS:HB2	1.77	0.42
1:SB:770:LEU:HD21	1:SB:774:ARG:CZ	2.50	0.42
1:TB:169:LYS:HD2	1:TB:169:LYS:HA	1.84	0.42
1:TB:490:ASP:N	1:TB:493:GLU:OE1	2.43	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:VB:58:TYR:CE1	1:VB:153:PRO:HG2	2.55	0.42
1:VB:732:ALA:HB2	1:WB:726:ALA:HB2	2.02	0.42
1:VB:775:ALA:HB1	1:WB:770:LEU:CG	2.46	0.42
1:XB:758:GLU:HA	1:XB:761:ARG:HB3	2.01	0.42
1:YB:545:TRP:HA	1:YB:635:VAL:HA	2.02	0.42
1:ZB:73:VAL:HG11	1:ZB:100:TYR:CZ	2.54	0.42
1:AC:129:PHE:CD1	1:AC:156:GLU:HG3	2.54	0.42
1:AC:770:LEU:HD21	1:AC:774:ARG:CZ	2.50	0.42
1:A:728:SER:HB3	1:C:718:SER:O	2.19	0.42
1:A:770:LEU:HD21	1:A:774:ARG:CZ	2.50	0.42
1:A:794:LYS:CA	1:C:788:ALA:HB1	2.49	0.42
1:C:58:TYR:CE1	1:C:153:PRO:HG2	2.55	0.42
1:C:169:LYS:HD2	1:C:170:GLN:H	1.85	0.42
1:C:770:LEU:HD21	1:C:774:ARG:CZ	2.50	0.42
1:D:129:PHE:CE1	1:D:137:VAL:HG11	2.54	0.42
1:E:60:ILE:HD13	1:E:107:LYS:HB3	2.02	0.42
1:E:742:LEU:HD12	1:E:742:LEU:HA	1.86	0.42
1:F:54:PRO:HB2	1:F:57:HIS:CE1	2.54	0.42
1:F:58:TYR:CE1	1:F:153:PRO:HG2	2.55	0.42
1:G:58:TYR:CE1	1:G:153:PRO:HG2	2.55	0.42
1:G:181:GLU:HA	1:G:191:VAL:HA	2.02	0.42
1:G:219:VAL:HG22	1:G:259:HIS:O	2.20	0.42
1:G:742:LEU:HD12	1:G:742:LEU:HA	1.86	0.42
1:H:16:ILE:HA	1:H:45:PHE:CE1	2.55	0.42
1:H:169:LYS:HD2	1:H:170:GLN:H	1.85	0.42
1:H:318:ARG:HB2	1:H:321:GLN:OE1	2.20	0.42
1:H:545:TRP:HA	1:H:635:VAL:HA	2.02	0.42
1:H:603:VAL:HG11	1:H:638:VAL:HG21	2.01	0.42
1:I:13:TYR:HB2	1:I:49:ARG:HH22	1.84	0.42
1:I:181:GLU:HA	1:I:191:VAL:HA	2.02	0.42
1:I:506:LYS:HD3	1:I:506:LYS:HA	1.81	0.42
1:I:698:GLU:HA	1:I:701:LYS:HD2	2.02	0.42
1:J:209:PHE:CE2	1:J:210:GLU:HG3	2.55	0.42
1:J:742:LEU:HD12	1:J:742:LEU:HA	1.86	0.42
1:K:770:LEU:HD21	1:K:774:ARG:CZ	2.50	0.42
1:L:806:THR:CG2	1:N:804:PRO:HA	2.49	0.42
1:M:8:ILE:HD11	1:M:35:TYR:CD2	2.51	0.42
1:M:545:TRP:HA	1:M:635:VAL:HA	2.02	0.42
1:N:204:TYR:OH	1:N:210:GLU:OE2	2.30	0.42
1:N:537:LEU:HA	1:N:645:PRO:HA	2.00	0.42
1:N:603:VAL:HG11	1:N:638:VAL:HG21	2.01	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:654:LEU:HD23	1:N:654:LEU:HA	1.84	0.42
1:O:758:GLU:HA	1:O:761:ARG:HB3	2.01	0.42
1:P:286:ASP:OD1	1:P:297:GLY:N	2.47	0.42
1:P:591:PHE:CD1	1:P:598:ILE:HD11	2.42	0.42
1:R:169:LYS:HA	1:R:169:LYS:HD2	1.84	0.42
1:R:603:VAL:HG11	1:R:638:VAL:HG21	2.01	0.42
1:R:679:ARG:HA	1:R:679:ARG:NE	2.35	0.42
1:R:770:LEU:HD21	1:R:774:ARG:CZ	2.50	0.42
1:S:13:TYR:HB2	1:S:49:ARG:HH22	1.84	0.42
1:V:64:PRO:HD2	1:V:84:ARG:O	2.20	0.42
1:V:219:VAL:HG22	1:V:259:HIS:O	2.20	0.42
1:W:310:LEU:HD23	1:W:310:LEU:HA	1.92	0.42
1:W:339:PRO:HD3	1:W:353:ALA:HB2	2.02	0.42
1:X:73:VAL:HG11	1:X:100:TYR:CZ	2.54	0.42
1:X:339:PRO:HD3	1:X:353:ALA:HB2	2.02	0.42
1:Y:339:PRO:HD3	1:Y:353:ALA:HB2	2.02	0.42
1:Z:339:PRO:HD3	1:Z:353:ALA:HB2	2.02	0.42
1:BA:318:ARG:HB2	1:BA:321:GLN:OE1	2.20	0.42
1:CA:129:PHE:CD1	1:CA:156:GLU:HG3	2.54	0.42
1:CA:704:LYS:NZ	1:CA:705:GLU:OE2	2.52	0.42
1:DA:58:TYR:CE1	1:DA:153:PRO:HG2	2.55	0.42
1:DA:286:ASP:OD1	1:DA:297:GLY:N	2.47	0.42
1:DA:651:ARG:C	1:DA:653:ALA:H	2.17	0.42
1:FA:54:PRO:HB2	1:FA:57:HIS:CE1	2.54	0.42
1:FA:181:GLU:HA	1:FA:191:VAL:HA	2.02	0.42
1:FA:209:PHE:CE2	1:FA:210:GLU:HG3	2.55	0.42
1:FA:500:LEU:HD23	1:FA:500:LEU:HA	1.90	0.42
1:FA:698:GLU:HA	1:FA:701:LYS:HD2	2.02	0.42
1:GA:16:ILE:HA	1:GA:45:PHE:CE1	2.55	0.42
1:GA:339:PRO:HD3	1:GA:353:ALA:HB2	2.02	0.42
1:HA:394:LYS:HE3	1:HA:394:LYS:HB2	1.87	0.42
1:HA:702:ALA:CB	1:JA:693:ILE:HG21	2.15	0.42
1:HA:758:GLU:HA	1:HA:761:ARG:HB3	2.01	0.42
1:IA:54:PRO:HB2	1:IA:57:HIS:CE1	2.54	0.42
1:IA:275:THR:HG21	1:KA:296:LEU:HD22	2.01	0.42
1:IA:339:PRO:HD3	1:IA:353:ALA:HB2	2.02	0.42
1:JA:169:LYS:HD2	1:JA:170:GLN:H	1.85	0.42
1:JA:318:ARG:HB2	1:JA:321:GLN:OE1	2.20	0.42
1:LA:129:PHE:CE1	1:LA:137:VAL:HG11	2.54	0.42
1:MA:129:PHE:CE1	1:MA:137:VAL:HG11	2.54	0.42
1:MA:545:TRP:HA	1:MA:635:VAL:HA	2.02	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:NA:54:PRO:HB2	1:NA:57:HIS:CE1	2.54	0.42
1:NA:169:LYS:HD2	1:NA:170:GLN:H	1.85	0.42
1:NA:707:LEU:HD23	1:NA:707:LEU:HA	1.74	0.42
1:PA:13:TYR:HB2	1:PA:49:ARG:HH22	1.84	0.42
1:PA:54:PRO:HB2	1:PA:57:HIS:CE1	2.54	0.42
1:PA:209:PHE:CE2	1:PA:210:GLU:HG3	2.55	0.42
1:QA:209:PHE:CE2	1:QA:210:GLU:HG3	2.55	0.42
1:QA:318:ARG:HB2	1:QA:321:GLN:OE1	2.20	0.42
1:RA:60:ILE:HD13	1:RA:107:LYS:HB3	2.02	0.42
1:RA:169:LYS:HD2	1:RA:170:GLN:H	1.85	0.42
1:RA:209:PHE:CE2	1:RA:210:GLU:HG3	2.55	0.42
1:RA:339:PRO:HD3	1:RA:353:ALA:HB2	2.02	0.42
1:RA:500:LEU:HD23	1:RA:500:LEU:HA	1.90	0.42
1:RA:603:VAL:HG11	1:RA:638:VAL:HG21	2.01	0.42
1:SA:654:LEU:HD23	1:SA:654:LEU:HA	1.84	0.42
1:TA:129:PHE:CD1	1:TA:156:GLU:HG3	2.54	0.42
1:TA:318:ARG:HB2	1:TA:321:GLN:OE1	2.20	0.42
1:TA:651:ARG:C	1:TA:653:ALA:H	2.17	0.42
1:TA:714:MET:HA	1:TA:717:GLU:HB3	2.00	0.42
1:UA:58:TYR:CE1	1:UA:153:PRO:HG2	2.55	0.42
1:VA:169:LYS:HD2	1:VA:170:GLN:H	1.85	0.42
1:WA:129:PHE:CD1	1:WA:156:GLU:HG3	2.54	0.42
1:WA:714:MET:HA	1:WA:717:GLU:HB3	2.01	0.42
1:XA:16:ILE:HA	1:XA:45:PHE:CE1	2.55	0.42
1:XA:219:VAL:HG22	1:XA:259:HIS:O	2.20	0.42
1:XA:545:TRP:HA	1:XA:635:VAL:HA	2.02	0.42
1:YA:129:PHE:CD1	1:YA:156:GLU:HG3	2.54	0.42
1:YA:219:VAL:HG22	1:YA:259:HIS:O	2.20	0.42
1:ZA:490:ASP:N	1:ZA:493:GLU:OE1	2.43	0.42
1:AB:687:ARG:NH2	1:OB:679:ARG:HD2	2.35	0.42
1:BB:244:ARG:HD3	1:BB:244:ARG:HA	1.85	0.42
1:BB:318:ARG:HB2	1:BB:321:GLN:OE1	2.20	0.42
1:BB:770:LEU:HD21	1:BB:774:ARG:CZ	2.50	0.42
1:DB:129:PHE:CE1	1:DB:137:VAL:HG11	2.54	0.42
1:DB:714:MET:HA	1:DB:717:GLU:HB3	2.01	0.42
1:EB:54:PRO:HB2	1:EB:57:HIS:CE1	2.54	0.42
1:EB:286:ASP:OD1	1:EB:297:GLY:N	2.47	0.42
1:FB:8:ILE:HD11	1:FB:35:TYR:CD2	2.51	0.42
1:FB:219:VAL:HG22	1:FB:259:HIS:O	2.20	0.42
1:GB:58:TYR:CE1	1:GB:153:PRO:HG2	2.55	0.42
1:GB:73:VAL:HG11	1:GB:100:TYR:CZ	2.54	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:GB:219:VAL:HG22	1:GB:259:HIS:O	2.20	0.42
1:HB:58:TYR:CE1	1:HB:153:PRO:HG2	2.55	0.42
1:HB:61:VAL:H	1:HB:88:GLN:HE22	1.65	0.42
1:HB:686:GLY:O	1:HB:690:ARG:HG3	2.19	0.42
1:HB:698:GLU:HA	1:HB:701:LYS:HD2	2.02	0.42
1:HB:758:GLU:HA	1:HB:761:ARG:HB3	2.01	0.42
1:IB:506:LYS:HD3	1:IB:506:LYS:HA	1.82	0.42
1:KB:54:PRO:HB2	1:KB:57:HIS:CE1	2.54	0.42
1:KB:73:VAL:HG11	1:KB:100:TYR:CZ	2.54	0.42
1:LB:16:ILE:HA	1:LB:45:PHE:CE1	2.55	0.42
1:LB:58:TYR:CE1	1:LB:153:PRO:HG2	2.55	0.42
1:LB:129:PHE:CD1	1:LB:156:GLU:HG3	2.54	0.42
1:LB:490:ASP:HB3	1:LB:491:PRO:HD2	2.01	0.42
1:LB:712:MET:CE	1:MB:704:LYS:HD2	2.50	0.42
1:MB:490:ASP:HB3	1:MB:491:PRO:HD2	2.01	0.42
1:MB:654:LEU:HD23	1:MB:654:LEU:HA	1.84	0.42
1:MB:770:LEU:HD21	1:MB:774:ARG:CZ	2.50	0.42
1:NB:490:ASP:HB3	1:NB:491:PRO:HD2	2.01	0.42
1:OB:64:PRO:HD2	1:OB:84:ARG:O	2.20	0.42
1:OB:735:ILE:HG21	1:PB:730:ALA:CB	2.50	0.42
1:OB:779:LEU:CD1	1:PB:773:ALA:HB1	2.49	0.42
1:PB:13:TYR:HB2	1:PB:49:ARG:HH22	1.84	0.42
1:QB:129:PHE:CD1	1:QB:156:GLU:HG3	2.54	0.42
1:QB:391:GLN:HB2	1:QB:415:TRP:HB2	2.00	0.42
1:RB:169:LYS:HD2	1:RB:170:GLN:H	1.85	0.42
1:SB:318:ARG:HB2	1:SB:321:GLN:OE1	2.20	0.42
1:SB:714:MET:HA	1:SB:717:GLU:HB3	2.01	0.42
1:SB:742:LEU:HD12	1:SB:742:LEU:HA	1.86	0.42
1:UB:169:LYS:HD2	1:UB:170:GLN:H	1.85	0.42
1:UB:209:PHE:CE2	1:UB:210:GLU:HG3	2.55	0.42
1:VB:318:ARG:HB2	1:VB:321:GLN:OE1	2.20	0.42
1:VB:537:LEU:HA	1:VB:645:PRO:HA	2.00	0.42
1:WB:405:THR:HG22	1:XB:395:THR:HA	2.02	0.42
1:XB:58:TYR:CE1	1:XB:153:PRO:HG2	2.55	0.42
1:XB:60:ILE:HD13	1:XB:107:LYS:HB3	2.02	0.42
1:YB:16:ILE:HA	1:YB:45:PHE:CE1	2.55	0.42
1:YB:169:LYS:HD2	1:YB:170:GLN:H	1.85	0.42
1:YB:698:GLU:HA	1:YB:701:LYS:HD2	2.02	0.42
1:AC:318:ARG:HB2	1:AC:321:GLN:OE1	2.20	0.42
1:AC:603:VAL:HG11	1:AC:638:VAL:HG21	2.01	0.42
1:AC:698:GLU:HA	1:AC:701:LYS:HD2	2.02	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:756:GLU:C	1:A:759:LEU:HB3	2.41	0.42
1:A:758:GLU:HA	1:A:761:ARG:HB3	2.01	0.42
1:A:790:VAL:CG2	1:C:785:GLN:H	2.29	0.42
1:C:219:VAL:HG22	1:C:259:HIS:O	2.20	0.42
1:C:761:ARG:HH21	1:E:755:THR:HG21	1.85	0.42
1:D:64:PRO:HD2	1:D:84:ARG:O	2.20	0.42
1:D:123:LEU:HD23	1:D:123:LEU:HA	1.93	0.42
1:D:167:VAL:HG13	1:F:191:VAL:HB	2.01	0.42
1:D:278:PRO:HB2	1:F:338:GLN:NE2	2.33	0.42
1:D:603:VAL:HG11	1:D:638:VAL:HG21	2.01	0.42
1:D:724:ALA:CA	1:F:715:ALA:CB	2.98	0.42
1:E:209:PHE:CE2	1:E:210:GLU:HG3	2.55	0.42
1:E:219:VAL:HG22	1:E:259:HIS:O	2.20	0.42
1:F:770:LEU:HD21	1:F:774:ARG:CZ	2.50	0.42
1:G:16:ILE:HA	1:G:45:PHE:CE1	2.55	0.42
1:G:174:LEU:HD12	1:G:174:LEU:HA	1.92	0.42
1:H:209:PHE:CE2	1:H:210:GLU:HG3	2.55	0.42
1:H:758:GLU:HA	1:H:761:ARG:HB3	2.01	0.42
1:I:169:LYS:HD2	1:I:170:GLN:H	1.85	0.42
1:I:406:TYR:HH	1:I:412:GLU:CD	2.23	0.42
1:J:16:ILE:HA	1:J:45:PHE:CE1	2.55	0.42
1:J:64:PRO:HD2	1:J:84:ARG:O	2.20	0.42
1:K:129:PHE:CD1	1:K:156:GLU:HG3	2.54	0.42
1:K:318:ARG:HB2	1:K:321:GLN:OE1	2.20	0.42
1:K:339:PRO:HD3	1:K:353:ALA:HB2	2.02	0.42
1:K:545:TRP:HA	1:K:635:VAL:HA	2.02	0.42
1:K:603:VAL:HG11	1:K:638:VAL:HG21	2.01	0.42
1:K:698:GLU:HA	1:K:701:LYS:HD2	2.02	0.42
1:L:318:ARG:HB2	1:L:321:GLN:OE1	2.20	0.42
1:L:339:PRO:HD3	1:L:353:ALA:HB2	2.02	0.42
1:L:490:ASP:HB3	1:L:491:PRO:HD2	2.01	0.42
1:L:770:LEU:HD21	1:L:774:ARG:CZ	2.50	0.42
1:M:770:LEU:HD21	1:M:774:ARG:CZ	2.50	0.42
1:P:16:ILE:HA	1:P:45:PHE:CE1	2.55	0.42
1:P:770:LEU:HD21	1:P:774:ARG:CZ	2.50	0.42
1:Q:129:PHE:CD1	1:Q:156:GLU:HG3	2.54	0.42
1:Q:651:ARG:C	1:Q:653:ALA:H	2.17	0.42
1:R:654:LEU:HD23	1:R:654:LEU:HA	1.84	0.42
1:S:96:PRO:HD3	1:V:85:HIS:NE2	2.35	0.42
1:V:169:LYS:HD2	1:V:170:GLN:H	1.85	0.42
1:V:673:ALA:CB	1:X:664:ILE:HD12	2.50	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:W:16:ILE:HA	1:W:45:PHE:CE1	2.55	0.42
1:W:169:LYS:HD2	1:W:170:GLN:H	1.85	0.42
1:Z:16:ILE:HA	1:Z:45:PHE:CE1	2.55	0.42
1:Z:219:VAL:HG22	1:Z:259:HIS:O	2.20	0.42
1:BA:702:ALA:HB3	1:DA:693:ILE:HG21	2.01	0.42
1:CA:129:PHE:CE1	1:CA:137:VAL:HG11	2.54	0.42
1:CA:181:GLU:HA	1:CA:191:VAL:HA	2.02	0.42
1:DA:8:ILE:HD11	1:DA:35:TYR:CD2	2.51	0.42
1:DA:129:PHE:CD1	1:DA:156:GLU:HG3	2.54	0.42
1:EA:236:LYS:HB2	1:EA:236:LYS:HE3	1.77	0.42
1:FA:64:PRO:HD2	1:FA:84:ARG:O	2.20	0.42
1:GA:58:TYR:CE1	1:GA:153:PRO:HG2	2.55	0.42
1:HA:54:PRO:HB2	1:HA:57:HIS:CE1	2.54	0.42
1:HA:219:VAL:HG22	1:HA:259:HIS:O	2.20	0.42
1:IA:16:ILE:HA	1:IA:45:PHE:CE1	2.55	0.42
1:JA:603:VAL:HG11	1:JA:638:VAL:HG21	2.01	0.42
1:LA:13:TYR:HB2	1:LA:49:ARG:HH22	1.84	0.42
1:LA:64:PRO:HD2	1:LA:84:ARG:O	2.20	0.42
1:LA:394:LYS:HE3	1:LA:394:LYS:HB2	1.87	0.42
1:MA:758:GLU:HA	1:MA:761:ARG:HB3	2.01	0.42
1:NA:318:ARG:HB2	1:NA:321:GLN:OE1	2.20	0.42
1:OA:16:ILE:HA	1:OA:45:PHE:CE1	2.55	0.42
1:OA:64:PRO:HD2	1:OA:84:ARG:O	2.20	0.42
1:OA:706:LEU:HD21	1:QA:693:ILE:HG23	2.02	0.42
1:PA:64:PRO:HD2	1:PA:84:ARG:O	2.20	0.42
1:PA:651:ARG:C	1:PA:653:ALA:H	2.17	0.42
1:PA:698:GLU:HA	1:PA:701:LYS:HD2	2.02	0.42
1:QA:16:ILE:HA	1:QA:45:PHE:CE1	2.55	0.42
1:QA:698:GLU:HA	1:QA:701:LYS:HD2	2.02	0.42
1:RA:679:ARG:HA	1:RA:679:ARG:NE	2.35	0.42
1:SA:8:ILE:HD11	1:SA:35:TYR:CD2	2.51	0.42
1:SA:129:PHE:CD1	1:SA:156:GLU:HG3	2.54	0.42
1:TA:64:PRO:HD2	1:TA:84:ARG:O	2.20	0.42
1:TA:698:GLU:HA	1:TA:701:LYS:HD2	2.02	0.42
1:UA:64:PRO:HD2	1:UA:84:ARG:O	2.20	0.42
1:UA:339:PRO:HD3	1:UA:353:ALA:HB2	2.02	0.42
1:UA:687:ARG:HA	1:UA:690:ARG:HG3	2.02	0.42
1:VA:13:TYR:HB2	1:VA:49:ARG:HH22	1.84	0.42
1:XA:209:PHE:CE2	1:XA:210:GLU:HG3	2.55	0.42
1:YA:169:LYS:HD2	1:YA:170:GLN:H	1.85	0.42
1:ZA:60:ILE:HD13	1:ZA:107:LYS:HB3	2.02	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:ZA:318:ARG:HB2	1:ZA:321:GLN:OE1	2.20	0.42
1:ZA:687:ARG:HA	1:ZA:690:ARG:HG3	2.02	0.42
1:AB:64:PRO:HD2	1:AB:84:ARG:O	2.20	0.42
1:AB:169:LYS:HD2	1:AB:169:LYS:HA	1.84	0.42
1:AB:286:ASP:OD1	1:AB:297:GLY:N	2.47	0.42
1:BB:58:TYR:CE1	1:BB:153:PRO:HG2	2.55	0.42
1:BB:209:PHE:CE2	1:BB:210:GLU:HG3	2.55	0.42
1:BB:219:VAL:HG22	1:BB:259:HIS:O	2.20	0.42
1:BB:339:PRO:HD3	1:BB:353:ALA:HB2	2.02	0.42
1:BB:490:ASP:N	1:BB:493:GLU:OE1	2.42	0.42
1:BB:704:LYS:NZ	1:BB:705:GLU:OE2	2.52	0.42
1:CB:490:ASP:N	1:CB:493:GLU:OE1	2.42	0.42
1:DB:58:TYR:CE1	1:DB:153:PRO:HG2	2.55	0.42
1:DB:310:LEU:HD23	1:DB:310:LEU:HA	1.92	0.42
1:EB:37:ARG:HE	1:EB:42:ARG:HA	1.82	0.42
1:EB:64:PRO:HD2	1:EB:84:ARG:O	2.20	0.42
1:FB:58:TYR:CE1	1:FB:153:PRO:HG2	2.55	0.42
1:FB:169:LYS:HD2	1:FB:170:GLN:H	1.85	0.42
1:FB:504:ARG:HH22	1:FB:524:THR:HG1	1.67	0.42
1:GB:129:PHE:CD1	1:GB:156:GLU:HG3	2.55	0.42
1:GB:209:PHE:CE2	1:GB:210:GLU:HG3	2.55	0.42
1:HB:770:LEU:HD21	1:HB:774:ARG:CZ	2.50	0.42
1:IB:64:PRO:HD2	1:IB:84:ARG:O	2.20	0.42
1:JB:54:PRO:HB2	1:JB:57:HIS:CE1	2.54	0.42
1:JB:770:LEU:HD21	1:JB:774:ARG:CZ	2.50	0.42
1:LB:520:PRO:HB2	1:MB:564:VAL:HB	2.02	0.42
1:LB:743:GLN:NE2	1:MB:734:ARG:HH22	2.04	0.42
1:MB:16:ILE:HA	1:MB:45:PHE:CE1	2.55	0.42
1:MB:506:LYS:HD3	1:MB:506:LYS:HA	1.81	0.42
1:OB:123:LEU:HD23	1:OB:123:LEU:HA	1.93	0.42
1:OB:219:VAL:HG22	1:OB:259:HIS:O	2.20	0.42
1:OB:592:HIS:O	1:PB:584:ALA:HB1	2.20	0.42
1:PB:181:GLU:HA	1:PB:191:VAL:HA	2.02	0.42
1:PB:339:PRO:HD3	1:PB:353:ALA:HB2	2.02	0.42
1:PB:406:TYR:HH	1:PB:412:GLU:CD	2.23	0.42
1:PB:603:VAL:HG11	1:PB:638:VAL:HG21	2.01	0.42
1:QB:181:GLU:HA	1:QB:191:VAL:HA	2.02	0.42
1:QB:394:LYS:HE3	1:QB:394:LYS:HB2	1.87	0.42
1:RB:286:ASP:OD1	1:RB:297:GLY:N	2.47	0.42
1:RB:699:ALA:HA	1:SB:693:ILE:HG13	2.02	0.42
1:SB:16:ILE:HA	1:SB:45:PHE:CE1	2.55	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:TB:58:TYR:CE1	1:TB:153:PRO:HG2	2.55	0.42
1:TB:60:ILE:HD13	1:TB:107:LYS:HB3	2.02	0.42
1:TB:592:HIS:HB3	1:UB:534:HIS:CE1	2.55	0.42
1:UB:181:GLU:HA	1:UB:191:VAL:HA	2.02	0.42
1:UB:490:ASP:HB3	1:UB:491:PRO:HD2	2.01	0.42
1:UB:603:VAL:HG11	1:UB:638:VAL:HG21	2.01	0.42
1:UB:758:GLU:HA	1:UB:761:ARG:HB3	2.01	0.42
1:UB:806:THR:HB	1:VB:808:ARG:CA	2.41	0.42
1:UB:806:THR:CG2	1:VB:804:PRO:O	2.67	0.42
1:VB:209:PHE:CE2	1:VB:210:GLU:HG3	2.55	0.42
1:VB:603:VAL:HG11	1:VB:638:VAL:HG21	2.01	0.42
1:WB:129:PHE:CD1	1:WB:156:GLU:HG3	2.54	0.42
1:WB:339:PRO:HD3	1:WB:353:ALA:HB2	2.02	0.42
1:YB:209:PHE:CE2	1:YB:210:GLU:HG3	2.55	0.42
1:A:728:SER:CB	1:C:722:ALA:HB2	2.48	0.41
1:A:775:ALA:HB1	1:C:770:LEU:CG	2.47	0.41
1:B:651:ARG:C	1:B:653:ALA:H	2.17	0.41
1:C:339:PRO:HD3	1:C:353:ALA:HB2	2.02	0.41
1:C:787:LEU:HD21	1:E:780:GLU:C	2.41	0.41
1:C:793:LYS:HZ2	1:E:785:GLN:HE21	1.61	0.41
1:D:12:PRO:CG	1:F:81:VAL:N	2.79	0.41
1:D:209:PHE:CE2	1:D:210:GLU:HG3	2.55	0.41
1:D:692:LYS:HE2	1:F:682:GLN:CD	2.40	0.41
1:E:16:ILE:HA	1:E:45:PHE:CE1	2.55	0.41
1:E:758:GLU:HA	1:E:761:ARG:HB3	2.01	0.41
1:F:169:LYS:HD2	1:F:170:GLN:H	1.85	0.41
1:F:318:ARG:HB2	1:F:321:GLN:OE1	2.20	0.41
1:F:521:ASP:OD1	1:F:522:PHE:N	2.44	0.41
1:G:64:PRO:HD2	1:G:84:ARG:O	2.20	0.41
1:G:169:LYS:HD2	1:G:169:LYS:HA	1.84	0.41
1:H:13:TYR:HB2	1:H:49:ARG:HH22	1.84	0.41
1:H:95:ASP:O	1:H:97:PHE:N	2.53	0.41
1:H:129:PHE:CE1	1:H:137:VAL:HG11	2.54	0.41
1:H:339:PRO:HD3	1:H:353:ALA:HB2	2.02	0.41
1:I:770:LEU:HD23	1:I:771:ILE:N	2.35	0.41
1:J:603:VAL:HG11	1:J:638:VAL:HG21	2.01	0.41
1:L:64:PRO:HD2	1:L:84:ARG:O	2.20	0.41
1:M:16:ILE:HA	1:M:45:PHE:CE1	2.55	0.41
1:N:95:ASP:O	1:N:97:PHE:N	2.53	0.41
1:N:545:TRP:HA	1:N:635:VAL:HA	2.02	0.41
1:O:169:LYS:HD2	1:O:170:GLN:H	1.85	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:O:174:LEU:HD12	1:O:174:LEU:HA	1.92	0.41
1:O:709:LEU:HA	1:O:709:LEU:HD23	1.82	0.41
1:P:129:PHE:CD1	1:P:156:GLU:HG3	2.54	0.41
1:Q:129:PHE:CE1	1:Q:137:VAL:HG11	2.54	0.41
1:Q:209:PHE:CE2	1:Q:210:GLU:HG3	2.55	0.41
1:Q:770:LEU:HD21	1:Q:774:ARG:CZ	2.50	0.41
1:R:16:ILE:HA	1:R:45:PHE:CE1	2.55	0.41
1:R:58:TYR:CE1	1:R:153:PRO:HG2	2.55	0.41
1:R:169:LYS:HD2	1:R:170:GLN:H	1.85	0.41
1:S:244:ARG:HD3	1:S:244:ARG:HA	1.85	0.41
1:S:545:TRP:HA	1:S:635:VAL:HA	2.02	0.41
1:T:58:TYR:CE1	1:T:153:PRO:HG2	2.55	0.41
1:T:64:PRO:HD2	1:T:84:ARG:O	2.20	0.41
1:W:123:LEU:HD23	1:W:123:LEU:HA	1.93	0.41
1:W:742:LEU:HD12	1:W:742:LEU:HA	1.86	0.41
1:X:58:TYR:CE1	1:X:153:PRO:HG2	2.55	0.41
1:X:377:ARG:HD3	1:X:377:ARG:HA	1.93	0.41
1:X:490:ASP:N	1:X:493:GLU:OE1	2.43	0.41
1:X:698:GLU:HA	1:X:701:LYS:HD2	2.02	0.41
1:Y:58:TYR:CE1	1:Y:153:PRO:HG2	2.55	0.41
1:Y:181:GLU:HA	1:Y:191:VAL:HA	2.02	0.41
1:Z:537:LEU:HA	1:Z:645:PRO:HA	2.00	0.41
1:Z:687:ARG:HA	1:Z:690:ARG:HG3	2.02	0.41
1:AA:136:LYS:HA	1:AA:136:LYS:HD2	1.86	0.41
1:BA:209:PHE:CE2	1:BA:210:GLU:HG3	2.55	0.41
1:CA:13:TYR:HB2	1:CA:49:ARG:HH22	1.84	0.41
1:GA:95:ASP:O	1:GA:97:PHE:N	2.53	0.41
1:HA:73:VAL:HG11	1:HA:100:TYR:CZ	2.54	0.41
1:HA:181:GLU:HA	1:HA:191:VAL:HA	2.02	0.41
1:HA:770:LEU:HD21	1:HA:774:ARG:CZ	2.50	0.41
1:IA:13:TYR:HB2	1:IA:49:ARG:HH22	1.84	0.41
1:JA:16:ILE:HA	1:JA:45:PHE:CE1	2.55	0.41
1:KA:60:ILE:HD13	1:KA:107:LYS:HB3	2.02	0.41
1:KA:129:PHE:CD1	1:KA:156:GLU:HG3	2.54	0.41
1:LA:54:PRO:HB2	1:LA:57:HIS:CE1	2.54	0.41
1:LA:95:ASP:O	1:LA:97:PHE:N	2.53	0.41
1:LA:758:GLU:HA	1:LA:761:ARG:HB3	2.01	0.41
1:MA:123:LEU:HD23	1:MA:123:LEU:HA	1.93	0.41
1:MA:129:PHE:CD1	1:MA:156:GLU:HG3	2.54	0.41
1:MA:169:LYS:HD2	1:MA:170:GLN:H	1.85	0.41
1:MA:770:LEU:HD23	1:MA:771:ILE:N	2.36	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:NA:603:VAL:HG11	1:NA:638:VAL:HG21	2.01	0.41
1:NA:686:GLY:O	1:NA:690:ARG:HG3	2.19	0.41
1:PA:770:LEU:HD21	1:PA:774:ARG:CZ	2.50	0.41
1:QA:339:PRO:HD3	1:QA:353:ALA:HB2	2.02	0.41
1:QA:545:TRP:HA	1:QA:635:VAL:HA	2.02	0.41
1:RA:770:LEU:HD23	1:RA:771:ILE:N	2.35	0.41
1:TA:545:TRP:HA	1:TA:635:VAL:HA	2.02	0.41
1:UA:679:ARG:HA	1:UA:679:ARG:NE	2.35	0.41
1:UA:758:GLU:HA	1:UA:761:ARG:HB3	2.01	0.41
1:VA:64:PRO:HD2	1:VA:84:ARG:O	2.20	0.41
1:VA:219:VAL:HG22	1:VA:259:HIS:O	2.20	0.41
1:VA:490:ASP:HB3	1:VA:491:PRO:HD2	2.01	0.41
1:VA:770:LEU:HD21	1:VA:774:ARG:CZ	2.50	0.41
1:WA:16:ILE:HA	1:WA:45:PHE:CE1	2.55	0.41
1:WA:687:ARG:HA	1:WA:690:ARG:HG3	2.02	0.41
1:XA:64:PRO:HD2	1:XA:84:ARG:O	2.20	0.41
1:XA:603:VAL:HG11	1:XA:638:VAL:HG21	2.01	0.41
1:ZA:16:ILE:HA	1:ZA:45:PHE:CE1	2.55	0.41
1:ZA:169:LYS:HD2	1:ZA:170:GLN:H	1.85	0.41
1:ZA:714:MET:HA	1:ZA:717:GLU:HB3	2.01	0.41
1:AB:58:TYR:CE1	1:AB:153:PRO:HG2	2.55	0.41
1:AB:181:GLU:HA	1:AB:191:VAL:HA	2.02	0.41
1:CB:8:ILE:HD11	1:CB:35:TYR:CD2	2.51	0.41
1:CB:16:ILE:HA	1:CB:45:PHE:CE1	2.55	0.41
1:CB:95:ASP:O	1:CB:97:PHE:N	2.53	0.41
1:CB:181:GLU:HA	1:CB:191:VAL:HA	2.02	0.41
1:EB:318:ARG:HB2	1:EB:321:GLN:OE1	2.20	0.41
1:FB:54:PRO:HB2	1:FB:57:HIS:CE1	2.54	0.41
1:GB:13:TYR:HB2	1:GB:49:ARG:HH22	1.84	0.41
1:GB:714:MET:HA	1:GB:717:GLU:HB3	2.00	0.41
1:GB:770:LEU:HD21	1:GB:774:ARG:CZ	2.50	0.41
1:HB:219:VAL:HG22	1:HB:259:HIS:O	2.20	0.41
1:HB:318:ARG:HB2	1:HB:321:GLN:OE1	2.20	0.41
1:HB:770:LEU:HD23	1:HB:771:ILE:N	2.35	0.41
1:IB:13:TYR:HB2	1:IB:49:ARG:HH22	1.84	0.41
1:IB:16:ILE:HA	1:IB:45:PHE:CE1	2.55	0.41
1:IB:209:PHE:CE2	1:IB:210:GLU:HG3	2.55	0.41
1:IB:770:LEU:HD21	1:IB:774:ARG:CZ	2.50	0.41
1:JB:95:ASP:O	1:JB:97:PHE:N	2.54	0.41
1:JB:219:VAL:HG22	1:JB:259:HIS:O	2.20	0.41
1:KB:181:GLU:HA	1:KB:191:VAL:HA	2.02	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:LB:520:PRO:HG2	1:MB:630:GLN:HB2	2.02	0.41
1:LB:688:LEU:HB2	1:MB:679:ARG:HH12	1.85	0.41
1:MB:8:ILE:HD11	1:MB:35:TYR:CD2	2.51	0.41
1:NB:318:ARG:HB2	1:NB:321:GLN:OE1	2.20	0.41
1:OB:181:GLU:HA	1:OB:191:VAL:HA	2.02	0.41
1:OB:318:ARG:HB2	1:OB:321:GLN:OE1	2.20	0.41
1:OB:339:PRO:HD3	1:OB:353:ALA:HB2	2.02	0.41
1:PB:545:TRP:HA	1:PB:635:VAL:HA	2.02	0.41
1:QB:219:VAL:HG22	1:QB:259:HIS:O	2.20	0.41
1:RB:129:PHE:CD1	1:RB:156:GLU:HG3	2.54	0.41
1:RB:219:VAL:HG22	1:RB:259:HIS:O	2.20	0.41
1:RB:310:LEU:HD23	1:RB:310:LEU:HA	1.92	0.41
1:SB:814:GLY:HA2	1:SB:815:PRO:HD3	1.89	0.41
1:TB:169:LYS:HD2	1:TB:170:GLN:H	1.85	0.41
1:TB:219:VAL:HG22	1:TB:259:HIS:O	2.20	0.41
1:TB:318:ARG:HB2	1:TB:321:GLN:OE1	2.20	0.41
1:TB:651:ARG:C	1:TB:653:ALA:H	2.17	0.41
1:TB:770:LEU:HD23	1:TB:771:ILE:N	2.35	0.41
1:UB:219:VAL:HG22	1:UB:259:HIS:O	2.20	0.41
1:UB:742:LEU:HD23	1:VB:737:GLY:CA	2.38	0.41
1:UB:802:LEU:HA	1:VB:807:ILE:HG21	2.01	0.41
1:VB:64:PRO:HD2	1:VB:84:ARG:O	2.20	0.41
1:WB:58:TYR:CE1	1:WB:153:PRO:HG2	2.55	0.41
1:WB:219:VAL:HG22	1:WB:259:HIS:O	2.20	0.41
1:ZB:8:ILE:HD11	1:ZB:35:TYR:CD2	2.51	0.41
1:AC:64:PRO:HD2	1:AC:84:ARG:O	2.20	0.41
1:A:318:ARG:HB2	1:A:321:GLN:OE1	2.20	0.41
1:A:684:ALA:CB	1:C:675:HIS:HB3	2.50	0.41
1:A:687:ARG:HA	1:A:690:ARG:HG3	2.02	0.41
1:B:136:LYS:HD2	1:B:136:LYS:HA	1.86	0.41
1:B:654:LEU:HD23	1:B:654:LEU:HA	1.84	0.41
1:C:209:PHE:CE2	1:C:210:GLU:HG3	2.55	0.41
1:D:169:LYS:HD2	1:D:170:GLN:H	1.85	0.41
1:D:339:PRO:HD3	1:D:353:ALA:HB2	2.02	0.41
1:D:743:GLN:HG2	1:F:734:ARG:NH2	2.34	0.41
1:D:770:LEU:HD23	1:D:771:ILE:N	2.35	0.41
1:E:545:TRP:HA	1:E:635:VAL:HA	2.02	0.41
1:E:679:ARG:HA	1:E:679:ARG:NE	2.35	0.41
1:F:219:VAL:HG22	1:F:259:HIS:O	2.20	0.41
1:G:13:TYR:HB2	1:G:49:ARG:HH22	1.84	0.41
1:G:129:PHE:CD1	1:G:156:GLU:HG3	2.54	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:169:LYS:HE3	1:I:233:GLN:OE1	2.20	0.41
1:H:679:ARG:HA	1:H:679:ARG:NE	2.35	0.41
1:H:770:LEU:HD23	1:H:771:ILE:N	2.35	0.41
1:I:61:VAL:H	1:I:88:GLN:HE22	1.66	0.41
1:I:138:MET:HB3	1:I:141:ASP:OD1	2.21	0.41
1:I:770:LEU:HD21	1:I:774:ARG:CZ	2.50	0.41
1:J:219:VAL:HG22	1:J:259:HIS:O	2.20	0.41
1:K:679:ARG:HA	1:K:679:ARG:NE	2.35	0.41
1:L:698:GLU:HA	1:L:701:LYS:HD2	2.02	0.41
1:L:770:LEU:HD23	1:L:771:ILE:N	2.36	0.41
1:M:521:ASP:OD1	1:M:522:PHE:N	2.44	0.41
1:N:181:GLU:HA	1:N:191:VAL:HA	2.02	0.41
1:N:679:ARG:HA	1:N:679:ARG:NE	2.35	0.41
1:N:758:GLU:HA	1:N:761:ARG:HB3	2.01	0.41
1:O:58:TYR:CE1	1:O:153:PRO:HG2	2.55	0.41
1:O:770:LEU:HD23	1:O:771:ILE:N	2.35	0.41
1:P:181:GLU:HA	1:P:191:VAL:HA	2.02	0.41
1:P:806:THR:HB	1:R:804:PRO:HA	2.02	0.41
1:Q:169:LYS:HD2	1:Q:170:GLN:H	1.85	0.41
1:Q:506:LYS:HD3	1:Q:506:LYS:HA	1.81	0.41
1:Q:603:VAL:HG11	1:Q:638:VAL:HG21	2.01	0.41
1:R:545:TRP:HA	1:R:635:VAL:HA	2.02	0.41
1:S:756:GLU:C	1:S:759:LEU:HB3	2.41	0.41
1:S:770:LEU:HD21	1:S:774:ARG:CZ	2.50	0.41
1:T:73:VAL:HG11	1:T:100:TYR:CZ	2.54	0.41
1:T:129:PHE:CD1	1:T:156:GLU:HG3	2.54	0.41
1:T:687:ARG:HA	1:T:690:ARG:HG3	2.02	0.41
1:V:286:ASP:OD1	1:V:297:GLY:N	2.47	0.41
1:W:687:ARG:HA	1:W:690:ARG:HG3	2.02	0.41
1:W:770:LEU:HD21	1:W:774:ARG:CZ	2.50	0.41
1:X:679:ARG:HA	1:X:679:ARG:NE	2.35	0.41
1:X:687:ARG:HA	1:X:690:ARG:HG3	2.03	0.41
1:Y:60:ILE:HD13	1:Y:107:LYS:HB3	2.02	0.41
1:Y:219:VAL:HG22	1:Y:259:HIS:O	2.20	0.41
1:Y:420:PRO:O	1:Y:421:SER:OG	2.36	0.41
1:Z:58:TYR:CE1	1:Z:153:PRO:HG2	2.55	0.41
1:Z:169:LYS:HD2	1:Z:170:GLN:H	1.85	0.41
1:AA:95:ASP:O	1:AA:97:PHE:N	2.54	0.41
1:AA:181:GLU:HA	1:AA:191:VAL:HA	2.02	0.41
1:BA:64:PRO:HD2	1:BA:84:ARG:O	2.20	0.41
1:BA:169:LYS:HD2	1:BA:170:GLN:H	1.85	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:BA:587:THR:HG1	1:BA:588:PHE:H	1.66	0.41
1:CA:490:ASP:HB3	1:CA:491:PRO:HD2	2.01	0.41
1:CA:545:TRP:HA	1:CA:635:VAL:HA	2.02	0.41
1:DA:16:ILE:HA	1:DA:45:PHE:CE1	2.55	0.41
1:DA:136:LYS:HD2	1:DA:136:LYS:HA	1.86	0.41
1:DA:181:GLU:HA	1:DA:191:VAL:HA	2.02	0.41
1:EA:181:GLU:HA	1:EA:191:VAL:HA	2.02	0.41
1:FA:95:ASP:O	1:FA:97:PHE:N	2.54	0.41
1:FA:756:GLU:C	1:FA:759:LEU:HB3	2.41	0.41
1:HA:13:TYR:HB2	1:HA:49:ARG:HH22	1.84	0.41
1:HA:138:MET:HB3	1:HA:141:ASP:OD1	2.21	0.41
1:IA:209:PHE:CE2	1:IA:210:GLU:HG3	2.55	0.41
1:IA:236:LYS:HB2	1:IA:236:LYS:HE3	1.77	0.41
1:JA:54:PRO:HB2	1:JA:57:HIS:CE1	2.54	0.41
1:KA:219:VAL:HG22	1:KA:259:HIS:O	2.20	0.41
1:KA:758:GLU:HA	1:KA:761:ARG:HB3	2.01	0.41
1:LA:244:ARG:HD3	1:LA:244:ARG:HA	1.85	0.41
1:NA:169:LYS:HD2	1:NA:169:LYS:HA	1.84	0.41
1:NA:679:ARG:HA	1:NA:679:ARG:NE	2.36	0.41
1:QA:73:VAL:HG11	1:QA:100:TYR:CZ	2.54	0.41
1:TA:58:TYR:CE1	1:TA:153:PRO:HG2	2.55	0.41
1:UA:169:LYS:HD2	1:UA:170:GLN:H	1.85	0.41
1:WA:219:VAL:HG22	1:WA:259:HIS:O	2.20	0.41
1:XA:129:PHE:CE1	1:XA:137:VAL:HG11	2.54	0.41
1:YA:60:ILE:HD13	1:YA:107:LYS:HB3	2.02	0.41
1:YA:537:LEU:HA	1:YA:645:PRO:HA	2.00	0.41
1:ZA:174:LEU:HD12	1:ZA:174:LEU:HA	1.92	0.41
1:ZA:698:GLU:HB3	1:BB:690:ARG:HD2	2.02	0.41
1:ZA:756:GLU:C	1:ZA:759:LEU:HB3	2.41	0.41
1:AB:16:ILE:HA	1:AB:45:PHE:CE1	2.55	0.41
1:AB:679:ARG:HA	1:AB:679:ARG:NE	2.35	0.41
1:BB:684:ALA:HB2	1:CB:675:HIS:CE1	2.55	0.41
1:BB:687:ARG:HA	1:BB:690:ARG:HG3	2.02	0.41
1:BB:688:LEU:HD12	1:CB:678:GLN:OE1	2.20	0.41
1:CB:698:GLU:HA	1:CB:701:LYS:HD2	2.02	0.41
1:DB:181:GLU:HA	1:DB:191:VAL:HA	2.02	0.41
1:DB:587:THR:HG1	1:DB:588:PHE:H	1.68	0.41
1:DB:603:VAL:HG11	1:DB:638:VAL:HG21	2.01	0.41
1:DB:704:LYS:NZ	1:DB:705:GLU:OE2	2.52	0.41
1:EB:181:GLU:HA	1:EB:191:VAL:HA	2.02	0.41
1:FB:16:ILE:HA	1:FB:45:PHE:CE1	2.55	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:HB:54:PRO:HB2	1:HB:57:HIS:CE1	2.54	0.41
1:HB:209:PHE:CE2	1:HB:210:GLU:HG3	2.55	0.41
1:IB:54:PRO:HB2	1:IB:57:HIS:CE1	2.54	0.41
1:IB:219:VAL:HG22	1:IB:259:HIS:O	2.20	0.41
1:JB:209:PHE:CE2	1:JB:210:GLU:HG3	2.55	0.41
1:JB:768:MET:HE2	1:JB:768:MET:HB3	1.76	0.41
1:KB:64:PRO:HD2	1:KB:84:ARG:O	2.20	0.41
1:KB:756:GLU:C	1:KB:759:LEU:HB3	2.41	0.41
1:LB:219:VAL:HG22	1:LB:259:HIS:O	2.20	0.41
1:LB:706:LEU:HD11	1:MB:696:GLN:CB	2.51	0.41
1:MB:169:LYS:HD2	1:MB:170:GLN:H	1.85	0.41
1:NB:60:ILE:HD13	1:NB:107:LYS:HB3	2.02	0.41
1:NB:169:LYS:HD2	1:NB:170:GLN:H	1.85	0.41
1:OB:129:PHE:CE1	1:OB:137:VAL:HG11	2.54	0.41
1:OB:756:GLU:C	1:OB:759:LEU:HB3	2.41	0.41
1:PB:136:LYS:HD2	1:PB:136:LYS:HA	1.85	0.41
1:PB:686:GLY:O	1:PB:690:ARG:HG3	2.19	0.41
1:QB:95:ASP:O	1:QB:97:PHE:N	2.54	0.41
1:QB:707:LEU:HA	1:QB:707:LEU:HD23	1.74	0.41
1:RB:174:LEU:HD12	1:RB:174:LEU:HA	1.92	0.41
1:RB:339:PRO:HD3	1:RB:353:ALA:HB2	2.02	0.41
1:RB:687:ARG:HA	1:RB:690:ARG:HG3	2.02	0.41
1:RB:770:LEU:HD23	1:RB:771:ILE:N	2.35	0.41
1:SB:64:PRO:HD2	1:SB:84:ARG:O	2.20	0.41
1:SB:123:LEU:HD23	1:SB:123:LEU:HA	1.93	0.41
1:TB:16:ILE:HA	1:TB:45:PHE:CE1	2.55	0.41
1:TB:643:VAL:HG22	1:UB:530:GLU:CD	2.40	0.41
1:VB:219:VAL:HG22	1:VB:259:HIS:O	2.20	0.41
1:VB:680:LEU:HB3	1:WB:675:HIS:ND1	2.34	0.41
1:XB:16:ILE:HA	1:XB:45:PHE:CE1	2.55	0.41
1:YB:58:TYR:CE1	1:YB:153:PRO:HG2	2.55	0.41
1:YB:181:GLU:HA	1:YB:191:VAL:HA	2.02	0.41
1:YB:339:PRO:HD3	1:YB:353:ALA:HB2	2.02	0.41
1:YB:651:ARG:C	1:YB:653:ALA:H	2.17	0.41
1:ZB:60:ILE:HD13	1:ZB:107:LYS:HB3	2.02	0.41
1:AC:406:TYR:HH	1:AC:412:GLU:CD	2.23	0.41
1:AC:545:TRP:HA	1:AC:635:VAL:HA	2.02	0.41
1:AC:687:ARG:HA	1:AC:690:ARG:HG3	2.02	0.41
1:A:209:PHE:CE2	1:A:210:GLU:HG3	2.55	0.41
1:A:698:GLU:HA	1:A:701:LYS:HD2	2.02	0.41
1:A:714:MET:SD	1:NB:724:ALA:CB	3.09	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:16:ILE:HA	1:B:45:PHE:CE1	2.55	0.41
1:B:138:MET:HB3	1:B:141:ASP:OD1	2.21	0.41
1:B:758:GLU:HA	1:B:761:ARG:HB3	2.01	0.41
1:C:8:ILE:HD11	1:C:35:TYR:CD2	2.51	0.41
1:C:394:LYS:HE3	1:C:394:LYS:HB2	1.87	0.41
1:D:9:ARG:NH1	1:F:21:GLN:CA	2.84	0.41
1:D:9:ARG:NH2	1:F:24:ASN:HD21	2.18	0.41
1:D:58:TYR:CE1	1:D:153:PRO:HG2	2.55	0.41
1:D:545:TRP:HA	1:D:635:VAL:HA	2.02	0.41
1:D:701:LYS:O	1:D:704:LYS:HB3	2.21	0.41
1:E:64:PRO:HD2	1:E:84:ARG:O	2.20	0.41
1:F:138:MET:HB3	1:F:141:ASP:OD1	2.21	0.41
1:G:123:LEU:HD23	1:G:123:LEU:HA	1.93	0.41
1:G:770:LEU:HD21	1:G:774:ARG:CZ	2.50	0.41
1:H:794:LYS:CD	1:J:791:GLU:OE2	2.67	0.41
1:I:64:PRO:HD2	1:I:84:ARG:O	2.20	0.41
1:K:60:ILE:HD13	1:K:107:LYS:HB3	2.02	0.41
1:K:500:LEU:HD23	1:K:500:LEU:HA	1.90	0.41
1:L:58:TYR:CE1	1:L:153:PRO:HG2	2.55	0.41
1:N:64:PRO:HD2	1:N:84:ARG:O	2.20	0.41
1:N:701:LYS:O	1:N:704:LYS:HB3	2.21	0.41
1:Q:138:MET:HB3	1:Q:141:ASP:OD1	2.21	0.41
1:Q:679:ARG:HA	1:Q:679:ARG:NE	2.35	0.41
1:Q:742:LEU:HD12	1:Q:742:LEU:HA	1.86	0.41
1:S:318:ARG:HB2	1:S:321:GLN:OE1	2.20	0.41
1:S:339:PRO:HD3	1:S:353:ALA:HB2	2.02	0.41
1:S:651:ARG:C	1:S:653:ALA:H	2.17	0.41
1:S:701:LYS:O	1:S:704:LYS:HB3	2.21	0.41
1:T:521:ASP:OD1	1:T:522:PHE:N	2.44	0.41
1:V:394:LYS:HE3	1:V:394:LYS:HB2	1.87	0.41
1:W:95:ASP:O	1:W:97:PHE:N	2.53	0.41
1:X:603:VAL:HG11	1:X:638:VAL:HG21	2.01	0.41
1:AA:13:TYR:HB2	1:AA:49:ARG:HH22	1.84	0.41
1:CA:169:LYS:HD2	1:CA:170:GLN:H	1.85	0.41
1:CA:209:PHE:CE2	1:CA:210:GLU:HG3	2.55	0.41
1:EA:318:ARG:HB2	1:EA:321:GLN:OE1	2.20	0.41
1:EA:698:GLU:HA	1:EA:701:LYS:HD2	2.02	0.41
1:EA:758:GLU:HA	1:EA:761:ARG:HB3	2.01	0.41
1:FA:603:VAL:HG11	1:FA:638:VAL:HG21	2.01	0.41
1:FA:654:LEU:HD23	1:FA:654:LEU:HA	1.84	0.41
1:HA:60:ILE:HD13	1:HA:107:LYS:HB3	2.02	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:HA:123:LEU:HD23	1:HA:123:LEU:HA	1.93	0.41
1:HA:318:ARG:HB2	1:HA:321:GLN:OE1	2.20	0.41
1:HA:545:TRP:HA	1:HA:635:VAL:HA	2.02	0.41
1:HA:679:ARG:HA	1:HA:679:ARG:NE	2.35	0.41
1:IA:169:LYS:HD2	1:IA:170:GLN:H	1.85	0.41
1:IA:701:LYS:O	1:IA:704:LYS:HB3	2.21	0.41
1:IA:717:GLU:CA	1:KA:707:LEU:HB3	2.49	0.41
1:IA:756:GLU:C	1:IA:759:LEU:HB3	2.41	0.41
1:KA:236:LYS:HB2	1:KA:236:LYS:HE3	1.77	0.41
1:KA:654:LEU:HD23	1:KA:654:LEU:HA	1.84	0.41
1:KA:698:GLU:HA	1:KA:701:LYS:HD2	2.02	0.41
1:KA:770:LEU:HD21	1:KA:774:ARG:CZ	2.50	0.41
1:LA:138:MET:HB3	1:LA:141:ASP:OD1	2.21	0.41
1:LA:770:LEU:HD23	1:LA:771:ILE:N	2.35	0.41
1:MA:58:TYR:CE1	1:MA:153:PRO:HG2	2.55	0.41
1:MA:679:ARG:HA	1:MA:679:ARG:NE	2.35	0.41
1:NA:500:LEU:HD23	1:NA:500:LEU:HA	1.90	0.41
1:NA:687:ARG:HA	1:NA:690:ARG:HG3	2.02	0.41
1:OA:95:ASP:O	1:OA:97:PHE:N	2.54	0.41
1:OA:209:PHE:CE2	1:OA:210:GLU:HG3	2.55	0.41
1:PA:545:TRP:HA	1:PA:635:VAL:HA	2.02	0.41
1:PA:687:ARG:HA	1:PA:690:ARG:HG3	2.02	0.41
1:QA:701:LYS:O	1:QA:704:LYS:HB3	2.21	0.41
1:RA:95:ASP:O	1:RA:97:PHE:N	2.54	0.41
1:SA:64:PRO:HD2	1:SA:84:ARG:O	2.20	0.41
1:SA:687:ARG:HA	1:SA:690:ARG:HG3	2.02	0.41
1:UA:756:GLU:C	1:UA:759:LEU:HB3	2.41	0.41
1:VA:587:THR:HG1	1:VA:588:PHE:H	1.67	0.41
1:VA:707:LEU:HA	1:VA:707:LEU:HD23	1.74	0.41
1:WA:339:PRO:HD3	1:WA:353:ALA:HB2	2.02	0.41
1:WA:603:VAL:HG11	1:WA:638:VAL:HG21	2.01	0.41
1:XA:339:PRO:HD3	1:XA:353:ALA:HB2	2.02	0.41
1:XA:679:ARG:HA	1:XA:679:ARG:NE	2.35	0.41
1:ZA:95:ASP:O	1:ZA:97:PHE:N	2.53	0.41
1:ZA:545:TRP:HA	1:ZA:635:VAL:HA	2.02	0.41
1:AB:129:PHE:CD1	1:AB:156:GLU:HG3	2.54	0.41
1:CB:209:PHE:CE2	1:CB:210:GLU:HG3	2.55	0.41
1:CB:339:PRO:HD3	1:CB:353:ALA:HB2	2.02	0.41
1:CB:758:GLU:HA	1:CB:761:ARG:HB3	2.01	0.41
1:DB:16:ILE:HA	1:DB:45:PHE:CE1	2.55	0.41
1:DB:814:GLY:HA2	1:DB:815:PRO:HD3	1.89	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:EB:169:LYS:HD2	1:EB:170:GLN:H	1.85	0.41
1:HB:60:ILE:HD13	1:HB:107:LYS:HB3	2.02	0.41
1:IB:138:MET:HB3	1:IB:141:ASP:OD1	2.21	0.41
1:IB:339:PRO:HD3	1:IB:353:ALA:HB2	2.02	0.41
1:IB:742:LEU:HD12	1:IB:742:LEU:HA	1.86	0.41
1:JB:60:ILE:HD13	1:JB:107:LYS:HB3	2.02	0.41
1:JB:707:LEU:HA	1:JB:707:LEU:HD23	1.74	0.41
1:KB:16:ILE:HA	1:KB:45:PHE:CE1	2.55	0.41
1:KB:318:ARG:HB2	1:KB:321:GLN:OE1	2.20	0.41
1:KB:339:PRO:HD3	1:KB:353:ALA:HB2	2.02	0.41
1:KB:500:LEU:HD23	1:KB:500:LEU:HA	1.90	0.41
1:KB:603:VAL:HG11	1:KB:638:VAL:HG21	2.01	0.41
1:KB:651:ARG:C	1:KB:653:ALA:H	2.17	0.41
1:LB:64:PRO:HD2	1:LB:84:ARG:O	2.20	0.41
1:LB:169:LYS:HD2	1:LB:170:GLN:H	1.85	0.41
1:LB:679:ARG:HA	1:LB:679:ARG:NE	2.35	0.41
1:MB:377:ARG:HD3	1:MB:377:ARG:HA	1.93	0.41
1:NB:219:VAL:HG22	1:NB:259:HIS:O	2.20	0.41
1:NB:223:GLU:OE2	1:NB:224:LYS:NZ	2.42	0.41
1:NB:545:TRP:HA	1:NB:635:VAL:HA	2.02	0.41
1:OB:277:GLY:HA2	1:PB:297:GLY:CA	2.50	0.41
1:OB:728:SER:CB	1:PB:722:ALA:HB2	2.49	0.41
1:OB:770:LEU:HD23	1:OB:771:ILE:N	2.35	0.41
1:OB:790:VAL:HG13	1:PB:788:ALA:HB1	2.02	0.41
1:PB:16:ILE:HA	1:PB:45:PHE:CE1	2.55	0.41
1:PB:138:MET:HB3	1:PB:141:ASP:OD1	2.21	0.41
1:PB:169:LYS:HD2	1:PB:170:GLN:H	1.85	0.41
1:SB:670:GLU:HA	1:TB:664:ILE:HG21	2.01	0.41
1:SB:679:ARG:HA	1:SB:679:ARG:NE	2.35	0.41
1:TB:783:LYS:CE	1:UB:777:LEU:HG	2.49	0.41
1:UB:8:ILE:HD11	1:UB:35:TYR:CD2	2.51	0.41
1:UB:16:ILE:HA	1:UB:45:PHE:CE1	2.55	0.41
1:UB:138:MET:HB3	1:UB:141:ASP:OD1	2.21	0.41
1:UB:802:LEU:HD21	1:VB:807:ILE:HG12	1.97	0.41
1:VB:169:LYS:HD2	1:VB:170:GLN:H	1.85	0.41
1:XB:219:VAL:HG22	1:XB:259:HIS:O	2.20	0.41
1:ZB:318:ARG:HB2	1:ZB:321:GLN:OE1	2.20	0.41
1:A:58:TYR:CE1	1:A:153:PRO:HG2	2.55	0.41
1:A:138:MET:HB3	1:A:141:ASP:OD1	2.21	0.41
1:B:13:TYR:HB2	1:B:49:ARG:HH22	1.84	0.41
1:C:506:LYS:HD3	1:C:506:LYS:HA	1.82	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:545:TRP:HA	1:C:635:VAL:HA	2.02	0.41
1:C:679:ARG:HA	1:C:679:ARG:NE	2.35	0.41
1:C:687:ARG:HA	1:C:690:ARG:HG3	2.03	0.41
1:C:698:GLU:HA	1:C:701:LYS:HD2	2.02	0.41
1:D:16:ILE:HA	1:D:45:PHE:CE1	2.55	0.41
1:D:318:ARG:HB2	1:D:321:GLN:OE1	2.20	0.41
1:E:169:LYS:HD2	1:E:170:GLN:H	1.85	0.41
1:E:716:VAL:CG2	1:G:708:GLU:HG2	2.44	0.41
1:G:129:PHE:CE1	1:G:137:VAL:HG11	2.54	0.41
1:G:339:PRO:HD3	1:G:353:ALA:HB2	2.02	0.41
1:H:8:ILE:HD11	1:H:35:TYR:CD2	2.51	0.41
1:H:138:MET:HB3	1:H:141:ASP:OD1	2.21	0.41
1:K:95:ASP:O	1:K:97:PHE:N	2.53	0.41
1:K:169:LYS:HD2	1:K:170:GLN:H	1.85	0.41
1:K:209:PHE:CE2	1:K:210:GLU:HG3	2.55	0.41
1:K:310:LEU:HD23	1:K:310:LEU:HA	1.92	0.41
1:L:95:ASP:O	1:L:97:PHE:N	2.53	0.41
1:L:138:MET:HB3	1:L:141:ASP:OD1	2.21	0.41
1:M:138:MET:HB3	1:M:141:ASP:OD1	2.21	0.41
1:M:169:LYS:HD2	1:M:170:GLN:H	1.85	0.41
1:N:236:LYS:HB2	1:N:236:LYS:HE3	1.77	0.41
1:N:310:LEU:HD23	1:N:310:LEU:HA	1.92	0.41
1:O:60:ILE:HD13	1:O:107:LYS:HB3	2.02	0.41
1:O:318:ARG:HB2	1:O:321:GLN:OE1	2.20	0.41
1:O:701:LYS:O	1:O:704:LYS:HB3	2.21	0.41
1:P:756:GLU:C	1:P:759:LEU:HB3	2.41	0.41
1:P:770:LEU:HD23	1:P:771:ILE:N	2.36	0.41
1:Q:58:TYR:CE1	1:Q:153:PRO:HG2	2.55	0.41
1:Q:758:GLU:HA	1:Q:761:ARG:HB3	2.01	0.41
1:R:60:ILE:HD13	1:R:107:LYS:HB3	2.02	0.41
1:R:698:GLU:HA	1:R:701:LYS:HD2	2.02	0.41
1:S:58:TYR:CE1	1:S:153:PRO:HG2	2.55	0.41
1:S:474:ARG:HE	1:S:491:PRO:HG2	1.86	0.41
1:T:138:MET:HB3	1:T:141:ASP:OD1	2.21	0.41
1:T:758:GLU:HA	1:T:761:ARG:HB3	2.01	0.41
1:V:138:MET:HB3	1:V:141:ASP:OD1	2.21	0.41
1:V:701:LYS:O	1:V:704:LYS:HB3	2.21	0.41
1:W:129:PHE:CD1	1:W:156:GLU:HG3	2.54	0.41
1:W:129:PHE:CE1	1:W:137:VAL:HG11	2.54	0.41
1:W:136:LYS:HA	1:W:136:LYS:HD2	1.86	0.41
1:W:209:PHE:CE2	1:W:210:GLU:HG3	2.55	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:W:318:ARG:HB2	1:W:321:GLN:OE1	2.20	0.41
1:X:756:GLU:C	1:X:759:LEU:HB3	2.41	0.41
1:Z:64:PRO:HD2	1:Z:84:ARG:O	2.20	0.41
1:Z:490:ASP:N	1:Z:493:GLU:OE1	2.43	0.41
1:AA:679:ARG:HA	1:AA:679:ARG:NE	2.35	0.41
1:AA:698:GLU:HA	1:AA:701:LYS:HD2	2.02	0.41
1:BA:219:VAL:HG22	1:BA:259:HIS:O	2.20	0.41
1:BA:490:ASP:N	1:BA:493:GLU:OE1	2.42	0.41
1:BA:770:LEU:HD21	1:BA:774:ARG:CZ	2.50	0.41
1:CA:701:LYS:O	1:CA:704:LYS:HB3	2.21	0.41
1:CA:770:LEU:HD23	1:CA:771:ILE:N	2.35	0.41
1:DA:174:LEU:HD12	1:DA:174:LEU:HA	1.92	0.41
1:DA:318:ARG:HB2	1:DA:321:GLN:OE1	2.20	0.41
1:DA:603:VAL:HG11	1:DA:638:VAL:HG21	2.01	0.41
1:DA:758:GLU:HA	1:DA:761:ARG:HB3	2.01	0.41
1:EA:60:ILE:HD13	1:EA:107:LYS:HB3	2.02	0.41
1:EA:64:PRO:HD2	1:EA:84:ARG:O	2.20	0.41
1:EA:506:LYS:HD3	1:EA:506:LYS:HA	1.81	0.41
1:FA:770:LEU:HD21	1:FA:774:ARG:CZ	2.50	0.41
1:HA:701:LYS:O	1:HA:704:LYS:HB3	2.21	0.41
1:JA:698:GLU:HA	1:JA:701:LYS:HD2	2.02	0.41
1:KA:209:PHE:CE2	1:KA:210:GLU:HG3	2.55	0.41
1:KA:506:LYS:HD3	1:KA:506:LYS:HA	1.81	0.41
1:KA:770:LEU:HD23	1:KA:771:ILE:N	2.36	0.41
1:LA:169:LYS:HD2	1:LA:170:GLN:H	1.85	0.41
1:LA:209:PHE:CE2	1:LA:210:GLU:HG3	2.55	0.41
1:MA:236:LYS:HE3	1:MA:236:LYS:HB2	1.77	0.41
1:MA:701:LYS:O	1:MA:704:LYS:HB3	2.21	0.41
1:MA:770:LEU:HD21	1:MA:774:ARG:CZ	2.50	0.41
1:NA:64:PRO:HD2	1:NA:84:ARG:O	2.20	0.41
1:OA:318:ARG:HB2	1:OA:321:GLN:OE1	2.20	0.41
1:OA:698:GLU:HA	1:OA:701:LYS:HD2	2.02	0.41
1:OA:770:LEU:HD21	1:OA:774:ARG:CZ	2.50	0.41
1:OA:814:GLY:HA2	1:OA:815:PRO:HD3	1.89	0.41
1:RA:129:PHE:CD1	1:RA:156:GLU:HG3	2.54	0.41
1:RA:138:MET:HB3	1:RA:141:ASP:OD1	2.21	0.41
1:RA:318:ARG:HB2	1:RA:321:GLN:OE1	2.20	0.41
1:RA:706:LEU:HD21	1:TA:693:ILE:HG23	2.02	0.41
1:RA:758:GLU:HA	1:RA:761:ARG:HB3	2.01	0.41
1:RA:770:LEU:HD21	1:RA:774:ARG:CZ	2.50	0.41
1:SA:138:MET:HB3	1:SA:141:ASP:OD1	2.21	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:TA:339:PRO:HD3	1:TA:353:ALA:HB2	2.02	0.41
1:TA:770:LEU:HD23	1:TA:771:ILE:N	2.35	0.41
1:UA:16:ILE:HA	1:UA:45:PHE:CE1	2.55	0.41
1:VA:129:PHE:CE1	1:VA:137:VAL:HG11	2.54	0.41
1:VA:701:LYS:O	1:VA:704:LYS:HB3	2.21	0.41
1:WA:138:MET:HB3	1:WA:141:ASP:OD1	2.21	0.41
1:XA:394:LYS:HE3	1:XA:394:LYS:HB2	1.87	0.41
1:XA:687:ARG:HA	1:XA:690:ARG:HG3	2.02	0.41
1:XA:701:LYS:O	1:XA:704:LYS:HB3	2.21	0.41
1:ZA:770:LEU:HD21	1:ZA:774:ARG:CZ	2.50	0.41
1:ZA:770:LEU:HD23	1:ZA:771:ILE:N	2.36	0.41
1:AB:138:MET:HB3	1:AB:141:ASP:OD1	2.21	0.41
1:AB:209:PHE:CE2	1:AB:210:GLU:HG3	2.55	0.41
1:AB:545:TRP:HA	1:AB:635:VAL:HA	2.02	0.41
1:AB:701:LYS:O	1:AB:704:LYS:HB3	2.21	0.41
1:BB:60:ILE:HD13	1:BB:107:LYS:HB3	2.02	0.41
1:BB:64:PRO:HD2	1:BB:84:ARG:O	2.20	0.41
1:BB:181:GLU:HA	1:BB:191:VAL:HA	2.02	0.41
1:FB:95:ASP:O	1:FB:97:PHE:N	2.53	0.41
1:GB:54:PRO:HB2	1:GB:57:HIS:CE1	2.54	0.41
1:GB:60:ILE:HD13	1:GB:107:LYS:HB3	2.02	0.41
1:GB:504:ARG:HH22	1:GB:524:THR:HG1	1.67	0.41
1:GB:679:ARG:HA	1:GB:679:ARG:NE	2.35	0.41
1:GB:698:GLU:HA	1:GB:701:LYS:HD2	2.02	0.41
1:HB:95:ASP:O	1:HB:97:PHE:N	2.53	0.41
1:HB:474:ARG:HE	1:HB:491:PRO:HG2	1.86	0.41
1:IB:169:LYS:HD2	1:IB:170:GLN:H	1.85	0.41
1:IB:545:TRP:HA	1:IB:635:VAL:HA	2.02	0.41
1:JB:181:GLU:HA	1:JB:191:VAL:HA	2.02	0.41
1:JB:603:VAL:HG11	1:JB:638:VAL:HG21	2.01	0.41
1:JB:770:LEU:HD23	1:JB:771:ILE:N	2.35	0.41
1:KB:209:PHE:CE2	1:KB:210:GLU:HG3	2.55	0.41
1:MB:64:PRO:HD2	1:MB:84:ARG:O	2.20	0.41
1:NB:209:PHE:CE2	1:NB:210:GLU:HG3	2.55	0.41
1:OB:129:PHE:CD1	1:OB:156:GLU:HG3	2.54	0.41
1:OB:275:THR:HB	1:PB:296:LEU:HB3	2.02	0.41
1:OB:279:ARG:NH2	1:PB:299:LYS:HZ3	2.15	0.41
1:OB:758:GLU:HA	1:OB:761:ARG:HB3	2.01	0.41
1:PB:318:ARG:HB2	1:PB:321:GLN:OE1	2.20	0.41
1:PB:770:LEU:HD23	1:PB:771:ILE:N	2.35	0.41
1:QB:687:ARG:HA	1:QB:690:ARG:HG3	2.02	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:RB:64:PRO:HD2	1:RB:84:ARG:O	2.20	0.41
1:RB:756:GLU:C	1:RB:759:LEU:HB3	2.41	0.41
1:RB:770:LEU:HD21	1:RB:774:ARG:CZ	2.50	0.41
1:SB:73:VAL:HG11	1:SB:100:TYR:CZ	2.54	0.41
1:SB:698:GLU:HA	1:SB:701:LYS:HD2	2.02	0.41
1:UB:318:ARG:HB2	1:UB:321:GLN:OE1	2.20	0.41
1:UB:806:THR:C	1:VB:808:ARG:HB2	2.41	0.41
1:VB:16:ILE:HA	1:VB:45:PHE:CE1	2.55	0.41
1:WB:64:PRO:HD2	1:WB:84:ARG:O	2.20	0.41
1:WB:138:MET:HB3	1:WB:141:ASP:OD1	2.21	0.41
1:WB:318:ARG:HB2	1:WB:321:GLN:OE1	2.20	0.41
1:XB:318:ARG:HB2	1:XB:321:GLN:OE1	2.20	0.41
1:XB:521:ASP:OD1	1:XB:522:PHE:N	2.44	0.41
1:XB:603:VAL:HG11	1:XB:638:VAL:HG21	2.01	0.41
1:XB:770:LEU:HD23	1:XB:771:ILE:N	2.36	0.41
1:ZB:701:LYS:O	1:ZB:704:LYS:HB3	2.21	0.41
1:AC:420:PRO:O	1:AC:421:SER:OG	2.36	0.41
1:A:603:VAL:HG11	1:A:638:VAL:HG21	2.01	0.41
1:B:129:PHE:CD1	1:B:156:GLU:HG3	2.54	0.41
1:B:339:PRO:HD3	1:B:353:ALA:HB2	2.02	0.41
1:C:64:PRO:HD2	1:C:84:ARG:O	2.20	0.41
1:C:758:GLU:HA	1:C:761:ARG:HB3	2.01	0.41
1:D:52:THR:CA	1:F:86:ALA:HB3	2.48	0.41
1:D:679:ARG:HA	1:D:679:ARG:NE	2.35	0.41
1:E:138:MET:HB3	1:E:141:ASP:OD1	2.21	0.41
1:F:95:ASP:O	1:F:97:PHE:N	2.53	0.41
1:F:770:LEU:HD23	1:F:771:ILE:N	2.35	0.41
1:G:39:ASP:OD2	1:WB:39:ASP:OD2	2.38	0.41
1:G:318:ARG:HB2	1:G:321:GLN:OE1	2.20	0.41
1:G:401:VAL:HG11	1:G:406:TYR:CD2	2.56	0.41
1:H:64:PRO:HD2	1:H:84:ARG:O	2.20	0.41
1:I:39:ASP:OD2	1:VB:39:ASP:CG	2.58	0.41
1:J:96:PRO:HD3	1:L:85:HIS:CD2	2.56	0.41
1:J:339:PRO:HD3	1:J:353:ALA:HB2	2.02	0.41
1:J:545:TRP:HA	1:J:635:VAL:HA	2.02	0.41
1:L:16:ILE:HA	1:L:45:PHE:CE1	2.55	0.41
1:L:209:PHE:CE2	1:L:210:GLU:HG3	2.55	0.41
1:N:339:PRO:HD3	1:N:353:ALA:HB2	2.02	0.41
1:O:339:PRO:HD3	1:O:353:ALA:HB2	2.02	0.41
1:O:770:LEU:HD21	1:O:774:ARG:CZ	2.50	0.41
1:P:687:ARG:HA	1:P:690:ARG:HG3	2.02	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Q:698:GLU:HA	1:Q:701:LYS:HD2	2.02	0.41
1:R:95:ASP:O	1:R:97:PHE:N	2.53	0.41
1:R:181:GLU:HA	1:R:191:VAL:HA	2.02	0.41
1:R:339:PRO:HD3	1:R:353:ALA:HB2	2.02	0.41
1:R:687:ARG:HA	1:R:690:ARG:HG3	2.02	0.41
1:T:545:TRP:HA	1:T:635:VAL:HA	2.02	0.41
1:T:679:ARG:HA	1:T:679:ARG:NE	2.35	0.41
1:T:756:GLU:C	1:T:759:LEU:HB3	2.41	0.41
1:V:687:ARG:HA	1:V:690:ARG:HG3	2.02	0.41
1:V:770:LEU:HD23	1:V:771:ILE:N	2.36	0.41
1:W:770:LEU:HD23	1:W:771:ILE:N	2.35	0.41
1:X:219:VAL:HG22	1:X:259:HIS:O	2.20	0.41
1:Y:698:GLU:HA	1:Y:701:LYS:HD2	2.02	0.41
1:BA:687:ARG:HA	1:BA:690:ARG:HG3	2.02	0.41
1:BA:698:GLU:HA	1:BA:701:LYS:HD2	2.02	0.41
1:CA:474:ARG:HE	1:CA:491:PRO:HG2	1.86	0.41
1:DA:219:VAL:HG22	1:DA:259:HIS:O	2.20	0.41
1:DA:707:LEU:HA	1:DA:707:LEU:HD23	1.74	0.41
1:EA:219:VAL:HG22	1:EA:259:HIS:O	2.20	0.41
1:FA:58:TYR:CE1	1:FA:153:PRO:HG2	2.55	0.41
1:FA:169:LYS:HD2	1:FA:170:GLN:H	1.85	0.41
1:FA:490:ASP:HB3	1:FA:491:PRO:HD2	2.01	0.41
1:IA:167:VAL:HG21	1:KA:192:THR:CG2	2.51	0.41
1:IA:394:LYS:HE3	1:IA:394:LYS:HB2	1.87	0.41
1:IA:679:ARG:HA	1:IA:679:ARG:NE	2.35	0.41
1:KA:95:ASP:O	1:KA:97:PHE:N	2.54	0.41
1:KA:138:MET:HB3	1:KA:141:ASP:OD1	2.21	0.41
1:KA:401:VAL:HG11	1:KA:406:TYR:CD2	2.56	0.41
1:LA:687:ARG:HA	1:LA:690:ARG:HG3	2.02	0.41
1:MA:64:PRO:HD2	1:MA:84:ARG:O	2.20	0.41
1:NA:16:ILE:HA	1:NA:45:PHE:CE1	2.55	0.41
1:NA:219:VAL:HG22	1:NA:259:HIS:O	2.20	0.41
1:NA:244:ARG:HD3	1:NA:244:ARG:HA	1.85	0.41
1:NA:770:LEU:HD23	1:NA:771:ILE:N	2.35	0.41
1:OA:138:MET:HB3	1:OA:141:ASP:OD1	2.21	0.41
1:OA:219:VAL:HG22	1:OA:259:HIS:O	2.20	0.41
1:PA:8:ILE:HD11	1:PA:35:TYR:CD2	2.51	0.41
1:PA:339:PRO:HD3	1:PA:353:ALA:HB2	2.02	0.41
1:PA:603:VAL:HG11	1:PA:638:VAL:HG21	2.01	0.41
1:QA:58:TYR:CE1	1:QA:153:PRO:HG2	2.55	0.41
1:RA:219:VAL:HG22	1:RA:259:HIS:O	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:SA:209:PHE:CE2	1:SA:210:GLU:HG3	2.55	0.41
1:SA:219:VAL:HG22	1:SA:259:HIS:O	2.20	0.41
1:SA:339:PRO:HD3	1:SA:353:ALA:HB2	2.02	0.41
1:SA:474:ARG:HE	1:SA:491:PRO:HG2	1.86	0.41
1:TA:219:VAL:HG22	1:TA:259:HIS:O	2.20	0.41
1:UA:318:ARG:HB2	1:UA:321:GLN:OE1	2.20	0.41
1:UA:521:ASP:OD1	1:UA:522:PHE:N	2.44	0.41
1:UA:701:LYS:O	1:UA:704:LYS:HB3	2.21	0.41
1:VA:58:TYR:CE1	1:VA:153:PRO:HG2	2.55	0.41
1:VA:95:ASP:O	1:VA:97:PHE:N	2.54	0.41
1:VA:181:GLU:HA	1:VA:191:VAL:HA	2.02	0.41
1:VA:679:ARG:NE	1:VA:679:ARG:HA	2.35	0.41
1:XA:60:ILE:HD13	1:XA:107:LYS:HB3	2.02	0.41
1:XA:758:GLU:HA	1:XA:761:ARG:HB3	2.01	0.41
1:XA:770:LEU:HD21	1:XA:774:ARG:CZ	2.50	0.41
1:YA:58:TYR:CE1	1:YA:153:PRO:HG2	2.55	0.41
1:BB:16:ILE:HA	1:BB:45:PHE:CE1	2.55	0.41
1:CB:679:ARG:NE	1:CB:679:ARG:HA	2.36	0.41
1:CB:770:LEU:HD23	1:CB:771:ILE:N	2.36	0.41
1:DB:138:MET:HB3	1:DB:141:ASP:OD1	2.21	0.41
1:EB:60:ILE:HD13	1:EB:107:LYS:HB3	2.02	0.41
1:EB:244:ARG:HD3	1:EB:244:ARG:HA	1.85	0.41
1:EB:698:GLU:HA	1:EB:701:LYS:HD2	2.02	0.41
1:FB:64:PRO:HD2	1:FB:84:ARG:O	2.20	0.41
1:FB:545:TRP:HA	1:FB:635:VAL:HA	2.02	0.41
1:GB:64:PRO:HD2	1:GB:84:ARG:O	2.20	0.41
1:GB:770:LEU:HD23	1:GB:771:ILE:N	2.36	0.41
1:IB:129:PHE:CD1	1:IB:156:GLU:HG3	2.54	0.41
1:IB:318:ARG:HB2	1:IB:321:GLN:OE1	2.20	0.41
1:JB:701:LYS:O	1:JB:704:LYS:HB3	2.21	0.41
1:KB:169:LYS:HD2	1:KB:170:GLN:H	1.85	0.41
1:KB:770:LEU:HD23	1:KB:771:ILE:N	2.35	0.41
1:LB:669:GLN:OE1	1:MB:661:ALA:HA	2.21	0.41
1:LB:692:LYS:HE2	1:MB:682:GLN:OE1	2.19	0.41
1:LB:742:LEU:HD12	1:LB:742:LEU:HA	1.86	0.41
1:MB:95:ASP:O	1:MB:97:PHE:N	2.54	0.41
1:MB:698:GLU:HA	1:MB:701:LYS:HD2	2.02	0.41
1:MB:770:LEU:HD23	1:MB:771:ILE:N	2.36	0.41
1:NB:679:ARG:HA	1:NB:679:ARG:NE	2.35	0.41
1:PB:8:ILE:HD11	1:PB:35:TYR:CD2	2.51	0.41
1:PB:209:PHE:CE2	1:PB:210:GLU:HG3	2.55	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:QB:209:PHE:CE2	1:QB:210:GLU:HG3	2.55	0.41
1:QB:679:ARG:HA	1:QB:679:ARG:NE	2.35	0.41
1:QB:701:LYS:O	1:QB:704:LYS:HB3	2.21	0.41
1:RB:58:TYR:CE1	1:RB:153:PRO:HG2	2.55	0.41
1:RB:701:LYS:O	1:RB:704:LYS:HB3	2.21	0.41
1:SB:60:ILE:HD13	1:SB:107:LYS:HB3	2.02	0.41
1:SB:545:TRP:HA	1:SB:635:VAL:HA	2.02	0.41
1:TB:758:GLU:HA	1:TB:761:ARG:HB3	2.01	0.41
1:UB:58:TYR:CE1	1:UB:153:PRO:HG2	2.55	0.41
1:UB:339:PRO:HD3	1:UB:353:ALA:HB2	2.02	0.41
1:UB:735:ILE:HG13	1:VB:726:ALA:CB	2.46	0.41
1:UB:770:LEU:HD23	1:UB:771:ILE:N	2.35	0.41
1:VB:123:LEU:HD23	1:VB:123:LEU:HA	1.93	0.41
1:VB:545:TRP:HA	1:VB:635:VAL:HA	2.02	0.41
1:YB:60:ILE:HD13	1:YB:107:LYS:HB3	2.02	0.41
1:YB:679:ARG:HA	1:YB:679:ARG:NE	2.35	0.41
1:ZB:95:ASP:O	1:ZB:97:PHE:N	2.54	0.41
1:ZB:138:MET:HB3	1:ZB:141:ASP:OD1	2.21	0.41
1:ZB:474:ARG:HE	1:ZB:491:PRO:HG2	1.86	0.41
1:ZB:490:ASP:HB3	1:ZB:491:PRO:HD2	2.01	0.41
1:ZB:698:GLU:HA	1:ZB:701:LYS:HD2	2.02	0.41
1:A:95:ASP:O	1:A:97:PHE:N	2.53	0.41
1:A:219:VAL:HG22	1:A:259:HIS:O	2.20	0.41
1:A:286:ASP:OD1	1:A:297:GLY:N	2.47	0.41
1:A:712:MET:CE	1:C:704:LYS:CD	2.99	0.41
1:A:766:ARG:HB3	1:NB:772:TYR:CE1	2.56	0.41
1:A:771:ILE:CD1	1:C:763:LYS:HG3	2.38	0.41
1:B:58:TYR:CE1	1:B:153:PRO:HG2	2.55	0.41
1:B:95:ASP:O	1:B:97:PHE:N	2.53	0.41
1:D:652:ASP:HB2	1:F:649:ARG:HH11	1.86	0.41
1:D:666:THR:HB	1:F:657:SER:OG	2.21	0.41
1:D:770:LEU:HD21	1:D:774:ARG:CZ	2.50	0.41
1:E:129:PHE:CD1	1:E:156:GLU:HG3	2.54	0.41
1:E:181:GLU:HA	1:E:191:VAL:HA	2.02	0.41
1:E:770:LEU:HD23	1:E:771:ILE:N	2.35	0.41
1:F:758:GLU:HA	1:F:761:ARG:HB3	2.01	0.41
1:G:138:MET:HB3	1:G:141:ASP:OD1	2.21	0.41
1:I:60:ILE:HD13	1:I:107:LYS:HB3	2.02	0.41
1:I:129:PHE:CD1	1:I:156:GLU:HG3	2.54	0.41
1:J:768:MET:HE3	1:L:763:LYS:HG3	2.02	0.41
1:K:687:ARG:HA	1:K:690:ARG:HG3	2.02	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:219:VAL:HG22	1:L:259:HIS:O	2.20	0.41
1:N:60:ILE:HD13	1:N:107:LYS:HB3	2.02	0.41
1:N:329:GLN:NE2	1:P:393:VAL:HG23	2.34	0.41
1:Q:181:GLU:HA	1:Q:191:VAL:HA	2.02	0.41
1:Q:318:ARG:HB2	1:Q:321:GLN:OE1	2.20	0.41
1:Q:500:LEU:HD23	1:Q:500:LEU:HA	1.90	0.41
1:R:701:LYS:O	1:R:704:LYS:HB3	2.21	0.41
1:R:758:GLU:HA	1:R:761:ARG:HB3	2.01	0.41
1:S:174:LEU:HD12	1:S:174:LEU:HA	1.92	0.41
1:S:401:VAL:HG11	1:S:406:TYR:CD2	2.56	0.41
1:S:506:LYS:HD3	1:S:506:LYS:HA	1.82	0.41
1:S:679:ARG:HA	1:S:679:ARG:NE	2.35	0.41
1:T:770:LEU:HD23	1:T:771:ILE:N	2.35	0.41
1:V:60:ILE:HD13	1:V:107:LYS:HB3	2.02	0.41
1:V:95:ASP:O	1:V:97:PHE:N	2.54	0.41
1:W:714:MET:HA	1:W:717:GLU:HB3	2.00	0.41
1:Y:687:ARG:HA	1:Y:690:ARG:HG3	2.02	0.41
1:Z:318:ARG:HB2	1:Z:321:GLN:OE1	2.20	0.41
1:Z:770:LEU:HD23	1:Z:771:ILE:N	2.35	0.41
1:AA:209:PHE:CE2	1:AA:210:GLU:HG3	2.55	0.41
1:AA:219:VAL:HG22	1:AA:259:HIS:O	2.20	0.41
1:AA:758:GLU:HA	1:AA:761:ARG:HB3	2.01	0.41
1:BA:591:PHE:CD1	1:BA:598:ILE:HD11	2.42	0.41
1:CA:679:ARG:HA	1:CA:679:ARG:NE	2.35	0.41
1:CA:770:LEU:HD21	1:CA:774:ARG:CZ	2.50	0.41
1:EA:339:PRO:HD3	1:EA:353:ALA:HB2	2.02	0.41
1:EA:770:LEU:HD23	1:EA:771:ILE:N	2.35	0.41
1:FA:138:MET:HB3	1:FA:141:ASP:OD1	2.21	0.41
1:FA:219:VAL:HG22	1:FA:259:HIS:O	2.20	0.41
1:FA:401:VAL:HG11	1:FA:406:TYR:CD2	2.56	0.41
1:FA:770:LEU:HD23	1:FA:771:ILE:N	2.36	0.41
1:GA:474:ARG:HE	1:GA:491:PRO:HG2	1.86	0.41
1:HA:339:PRO:HD3	1:HA:353:ALA:HB2	2.02	0.41
1:IA:706:LEU:HD23	1:KA:693:ILE:HG23	1.98	0.41
1:JA:60:ILE:HD13	1:JA:107:LYS:HB3	2.02	0.41
1:JA:770:LEU:HD21	1:JA:774:ARG:CZ	2.50	0.41
1:KA:13:TYR:HB2	1:KA:49:ARG:HH22	1.84	0.41
1:KA:16:ILE:HA	1:KA:45:PHE:CE1	2.55	0.41
1:KA:169:LYS:HD2	1:KA:170:GLN:H	1.85	0.41
1:LA:474:ARG:HE	1:LA:491:PRO:HG2	1.86	0.41
1:LA:679:ARG:HA	1:LA:679:ARG:NE	2.36	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:MA:16:ILE:HA	1:MA:45:PHE:CE1	2.55	0.41
1:MA:318:ARG:HB2	1:MA:321:GLN:OE1	2.20	0.41
1:MA:490:ASP:N	1:MA:493:GLU:OE1	2.42	0.41
1:MA:742:LEU:HD23	1:OA:734:ARG:HE	1.84	0.41
1:NA:545:TRP:HA	1:NA:635:VAL:HA	2.02	0.41
1:NA:698:GLU:HA	1:NA:701:LYS:HD2	2.02	0.41
1:PA:95:ASP:O	1:PA:97:PHE:N	2.53	0.41
1:PA:474:ARG:HE	1:PA:491:PRO:HG2	1.86	0.41
1:RA:545:TRP:HA	1:RA:635:VAL:HA	2.02	0.41
1:SA:95:ASP:O	1:SA:97:PHE:N	2.53	0.41
1:SA:500:LEU:HD23	1:SA:500:LEU:HA	1.90	0.41
1:SA:770:LEU:HD23	1:SA:771:ILE:N	2.36	0.41
1:TA:16:ILE:HA	1:TA:45:PHE:CE1	2.55	0.41
1:UA:709:LEU:HA	1:UA:709:LEU:HD23	1.82	0.41
1:UA:770:LEU:HD21	1:UA:774:ARG:CZ	2.50	0.41
1:VA:16:ILE:HA	1:VA:45:PHE:CE1	2.55	0.41
1:VA:209:PHE:CE2	1:VA:210:GLU:HG3	2.55	0.41
1:WA:318:ARG:HB2	1:WA:321:GLN:OE1	2.20	0.41
1:WA:701:LYS:O	1:WA:704:LYS:HB3	2.21	0.41
1:XA:310:LEU:HD23	1:XA:310:LEU:HA	1.92	0.41
1:XA:401:VAL:HG11	1:XA:406:TYR:CD2	2.56	0.41
1:YA:679:ARG:HA	1:YA:679:ARG:NE	2.35	0.41
1:YA:687:ARG:HA	1:YA:690:ARG:HG3	2.02	0.41
1:YA:758:GLU:HA	1:YA:761:ARG:HB3	2.01	0.41
1:AB:770:LEU:HD23	1:AB:771:ILE:N	2.35	0.41
1:BB:701:LYS:O	1:BB:704:LYS:HB3	2.21	0.41
1:CB:58:TYR:CE1	1:CB:153:PRO:HG2	2.55	0.41
1:DB:545:TRP:HA	1:DB:635:VAL:HA	2.02	0.41
1:DB:770:LEU:HD21	1:DB:774:ARG:CZ	2.50	0.41
1:EB:219:VAL:HG22	1:EB:259:HIS:O	2.20	0.41
1:EB:814:GLY:HA2	1:EB:815:PRO:HD3	1.89	0.41
1:FB:209:PHE:CE2	1:FB:210:GLU:HG3	2.55	0.41
1:FB:381:PRO:HB3	1:GB:393:VAL:HA	2.03	0.41
1:FB:701:LYS:O	1:FB:704:LYS:HB3	2.21	0.41
1:GB:707:LEU:HA	1:GB:707:LEU:HD23	1.74	0.41
1:GB:756:GLU:C	1:GB:759:LEU:HB3	2.41	0.41
1:HB:401:VAL:HG11	1:HB:406:TYR:CD2	2.56	0.41
1:HB:603:VAL:HG11	1:HB:638:VAL:HG21	2.01	0.41
1:HB:701:LYS:O	1:HB:704:LYS:HB3	2.21	0.41
1:IB:474:ARG:HE	1:IB:491:PRO:HG2	1.86	0.41
1:JB:129:PHE:CE1	1:JB:137:VAL:HG11	2.54	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:JB:138:MET:HB3	1:JB:141:ASP:OD1	2.21	0.41
1:JB:679:ARG:HA	1:JB:679:ARG:NE	2.36	0.41
1:KB:95:ASP:O	1:KB:97:PHE:N	2.53	0.41
1:KB:401:VAL:HG11	1:KB:406:TYR:CD2	2.56	0.41
1:LB:138:MET:HB3	1:LB:141:ASP:OD1	2.21	0.41
1:LB:401:VAL:HG11	1:LB:406:TYR:CD2	2.56	0.41
1:LB:698:GLU:HA	1:LB:701:LYS:HD2	2.02	0.41
1:LB:770:LEU:HD21	1:LB:774:ARG:CZ	2.50	0.41
1:MB:136:LYS:HD2	1:MB:136:LYS:HA	1.86	0.41
1:NB:58:TYR:CE1	1:NB:153:PRO:HG2	2.55	0.41
1:NB:181:GLU:HA	1:NB:191:VAL:HA	2.02	0.41
1:OB:13:TYR:HB2	1:OB:49:ARG:HH22	1.84	0.41
1:OB:56:ARG:HG3	1:PB:127:LEU:CD2	2.38	0.41
1:PB:219:VAL:HG22	1:PB:259:HIS:O	2.20	0.41
1:PB:679:ARG:HA	1:PB:679:ARG:NE	2.35	0.41
1:QB:318:ARG:HB2	1:QB:321:GLN:OE1	2.20	0.41
1:RB:679:ARG:HA	1:RB:679:ARG:NE	2.36	0.41
1:TB:181:GLU:HA	1:TB:191:VAL:HA	2.02	0.41
1:UB:654:LEU:HD23	1:UB:654:LEU:HA	1.84	0.41
1:UB:810:LEU:CB	1:VB:811:ALA:CB	2.99	0.41
1:VB:95:ASP:O	1:VB:97:PHE:N	2.54	0.41
1:VB:339:PRO:HD3	1:VB:353:ALA:HB2	2.02	0.41
1:VB:401:VAL:HG11	1:VB:406:TYR:CD2	2.56	0.41
1:VB:756:GLU:C	1:VB:759:LEU:HB3	2.41	0.41
1:WB:16:ILE:HA	1:WB:45:PHE:CE1	2.55	0.41
1:WB:169:LYS:HD2	1:WB:170:GLN:H	1.85	0.41
1:WB:236:LYS:HE3	1:WB:236:LYS:HB2	1.77	0.41
1:WB:401:VAL:HG11	1:WB:406:TYR:CD2	2.56	0.41
1:WB:474:ARG:HE	1:WB:491:PRO:HG2	1.86	0.41
1:WB:687:ARG:HA	1:WB:690:ARG:HG3	2.02	0.41
1:XB:64:PRO:HD2	1:XB:84:ARG:O	2.20	0.41
1:XB:181:GLU:HA	1:XB:191:VAL:HA	2.02	0.41
1:YB:138:MET:HB3	1:YB:141:ASP:OD1	2.21	0.41
1:YB:318:ARG:HB2	1:YB:321:GLN:OE1	2.20	0.41
1:YB:401:VAL:HG11	1:YB:406:TYR:CD2	2.56	0.41
1:ZB:244:ARG:HD3	1:ZB:244:ARG:HA	1.85	0.41
1:ZB:394:LYS:HE3	1:ZB:394:LYS:HB2	1.87	0.41
1:ZB:587:THR:HG1	1:ZB:588:PHE:H	1.68	0.41
1:ZB:770:LEU:HD23	1:ZB:771:ILE:N	2.35	0.41
1:ZB:801:ALA:HB1	1:AC:799:THR:CB	2.49	0.41
1:AC:60:ILE:HD13	1:AC:107:LYS:HB3	2.02	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:745:LYS:CD	1:NB:753:ILE:HG21	2.50	0.41
1:A:765:VAL:HG11	1:C:755:THR:CB	2.26	0.41
1:B:401:VAL:HG11	1:B:406:TYR:CD2	2.56	0.41
1:B:770:LEU:HD23	1:B:771:ILE:N	2.36	0.41
1:C:138:MET:HB3	1:C:141:ASP:OD1	2.21	0.41
1:C:794:LYS:CD	1:E:788:ALA:CA	2.93	0.41
1:D:57:HIS:NE2	1:F:127:LEU:CD1	2.81	0.41
1:D:174:LEU:HD12	1:D:174:LEU:HA	1.92	0.41
1:D:202:GLY:HA2	1:F:191:VAL:CG1	2.44	0.41
1:D:522:PHE:HD2	1:F:564:VAL:HG23	1.86	0.41
1:E:95:ASP:O	1:E:97:PHE:N	2.54	0.41
1:E:587:THR:HG1	1:E:588:PHE:N	2.18	0.41
1:E:701:LYS:O	1:E:704:LYS:HB3	2.21	0.41
1:G:770:LEU:HD23	1:G:771:ILE:N	2.36	0.41
1:H:401:VAL:HG11	1:H:406:TYR:CD2	2.56	0.41
1:H:698:GLU:HA	1:H:701:LYS:HD2	2.02	0.41
1:I:16:ILE:HA	1:I:45:PHE:CE1	2.55	0.41
1:K:770:LEU:HD23	1:K:771:ILE:N	2.36	0.41
1:L:679:ARG:HA	1:L:679:ARG:NE	2.35	0.41
1:M:318:ARG:HB2	1:M:321:GLN:OE1	2.20	0.41
1:M:401:VAL:HG11	1:M:406:TYR:CD2	2.56	0.41
1:N:169:LYS:HD2	1:N:170:GLN:H	1.85	0.41
1:N:490:ASP:HB3	1:N:491:PRO:HD2	2.01	0.41
1:N:770:LEU:HD21	1:N:774:ARG:CZ	2.50	0.41
1:O:707:LEU:HA	1:O:707:LEU:HD23	1.74	0.41
1:P:60:ILE:HD13	1:P:107:LYS:HB3	2.02	0.41
1:P:219:VAL:HG22	1:P:259:HIS:O	2.20	0.41
1:P:230:ARG:HH12	1:P:268:LEU:HD21	1.86	0.41
1:P:401:VAL:HG11	1:P:406:TYR:CD2	2.56	0.41
1:Q:60:ILE:HD13	1:Q:107:LYS:HB3	2.02	0.41
1:R:279:ARG:HH22	1:T:299:LYS:HD2	1.85	0.41
1:R:318:ARG:HB2	1:R:321:GLN:OE1	2.20	0.41
1:S:181:GLU:HA	1:S:191:VAL:HA	2.02	0.41
1:S:770:LEU:HD23	1:S:771:ILE:N	2.36	0.41
1:T:209:PHE:CE2	1:T:210:GLU:HG3	2.55	0.41
1:V:770:LEU:HD21	1:V:774:ARG:CZ	2.50	0.41
1:W:181:GLU:HA	1:W:191:VAL:HA	2.02	0.41
1:Y:230:ARG:HH12	1:Y:268:LEU:HD21	1.86	0.41
1:Y:545:TRP:HA	1:Y:635:VAL:HA	2.02	0.41
1:Y:679:ARG:HA	1:Y:679:ARG:NE	2.35	0.41
1:Z:701:LYS:O	1:Z:704:LYS:HB3	2.21	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:169:LYS:HD2	1:AA:170:GLN:H	1.85	0.41
1:BA:174:LEU:HD12	1:BA:174:LEU:HA	1.92	0.41
1:CA:230:ARG:HH12	1:CA:268:LEU:HD21	1.86	0.41
1:CA:401:VAL:HG11	1:CA:406:TYR:CD2	2.56	0.41
1:DA:698:GLU:HA	1:DA:701:LYS:HD2	2.02	0.41
1:GA:219:VAL:HG22	1:GA:259:HIS:O	2.20	0.41
1:GA:504:ARG:HH22	1:GA:524:THR:HG1	1.67	0.41
1:GA:545:TRP:HA	1:GA:635:VAL:HA	2.02	0.41
1:IA:64:PRO:HD2	1:IA:84:ARG:O	2.20	0.41
1:IA:401:VAL:HG11	1:IA:406:TYR:CD2	2.56	0.41
1:JA:401:VAL:HG11	1:JA:406:TYR:CD2	2.56	0.41
1:JA:701:LYS:O	1:JA:704:LYS:HB3	2.21	0.41
1:KA:58:TYR:CE1	1:KA:153:PRO:HG2	2.55	0.41
1:KA:174:LEU:HD12	1:KA:174:LEU:HA	1.92	0.41
1:KA:756:GLU:C	1:KA:759:LEU:HB3	2.41	0.41
1:OA:770:LEU:HD23	1:OA:771:ILE:N	2.35	0.41
1:QA:123:LEU:HD23	1:QA:123:LEU:HA	1.93	0.41
1:QA:237:ASP:OD1	1:QA:241:VAL:N	2.42	0.41
1:QA:679:ARG:HA	1:QA:679:ARG:NE	2.35	0.41
1:QA:687:ARG:HA	1:QA:690:ARG:HG3	2.02	0.41
1:RA:406:TYR:HH	1:RA:412:GLU:CD	2.23	0.41
1:RA:651:ARG:C	1:RA:653:ALA:H	2.17	0.41
1:RA:701:LYS:O	1:RA:704:LYS:HB3	2.21	0.41
1:SA:310:LEU:HD23	1:SA:310:LEU:HA	1.92	0.41
1:SA:318:ARG:HB2	1:SA:321:GLN:OE1	2.20	0.41
1:SA:401:VAL:HG11	1:SA:406:TYR:CD2	2.56	0.41
1:VA:687:ARG:HA	1:VA:690:ARG:HG3	2.02	0.41
1:WA:58:TYR:CE1	1:WA:153:PRO:HG2	2.55	0.41
1:YA:16:ILE:HA	1:YA:45:PHE:CE1	2.55	0.41
1:YA:394:LYS:HE3	1:YA:394:LYS:HB2	1.87	0.41
1:ZA:230:ARG:HH12	1:ZA:268:LEU:HD21	1.86	0.41
1:ZA:775:ALA:HB1	1:BB:770:LEU:HD12	2.02	0.41
1:AB:698:GLU:HA	1:AB:701:LYS:HD2	2.02	0.41
1:AB:728:SER:HB2	1:OB:722:ALA:CB	2.51	0.41
1:AB:770:LEU:HD21	1:AB:774:ARG:CZ	2.50	0.41
1:BB:401:VAL:HG11	1:BB:406:TYR:CD2	2.56	0.41
1:BB:679:ARG:NE	1:BB:679:ARG:HA	2.35	0.41
1:DB:60:ILE:HD13	1:DB:107:LYS:HB3	2.02	0.41
1:DB:770:LEU:HD23	1:DB:771:ILE:N	2.35	0.41
1:EB:95:ASP:O	1:EB:97:PHE:N	2.53	0.41
1:EB:701:LYS:O	1:EB:704:LYS:HB3	2.21	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:FB:770:LEU:HD21	1:FB:774:ARG:CZ	2.50	0.41
1:GB:138:MET:HB3	1:GB:141:ASP:OD1	2.21	0.41
1:HB:339:PRO:HD3	1:HB:353:ALA:HB2	2.02	0.41
1:HB:756:GLU:C	1:HB:759:LEU:HB3	2.41	0.41
1:JB:8:ILE:HD11	1:JB:35:TYR:CD2	2.51	0.41
1:JB:16:ILE:HA	1:JB:45:PHE:CE1	2.55	0.41
1:JB:169:LYS:HD2	1:JB:170:GLN:H	1.85	0.41
1:LB:655:GLN:NE2	1:MB:649:ARG:HB2	2.35	0.41
1:MB:58:TYR:CE1	1:MB:153:PRO:HG2	2.55	0.41
1:MB:230:ARG:HH12	1:MB:268:LEU:HD21	1.86	0.41
1:OB:203:ALA:CA	1:PB:192:THR:CG2	2.97	0.41
1:OB:394:LYS:HE3	1:OB:394:LYS:HB2	1.87	0.41
1:OB:405:THR:H	1:PB:395:THR:C	2.24	0.41
1:OB:679:ARG:HA	1:OB:679:ARG:NE	2.35	0.41
1:PB:756:GLU:C	1:PB:759:LEU:HB3	2.41	0.41
1:QB:169:LYS:HD2	1:QB:170:GLN:H	1.85	0.41
1:QB:474:ARG:HE	1:QB:491:PRO:HG2	1.86	0.41
1:QB:698:GLU:HA	1:QB:701:LYS:HD2	2.02	0.41
1:RB:138:MET:HB3	1:RB:141:ASP:OD1	2.21	0.41
1:RB:181:GLU:HA	1:RB:191:VAL:HA	2.02	0.41
1:RB:695:ASP:OD1	1:SB:686:GLY:HA3	2.19	0.41
1:SB:756:GLU:C	1:SB:759:LEU:HB3	2.41	0.41
1:TB:13:TYR:HB2	1:TB:49:ARG:HH22	1.84	0.41
1:TB:698:GLU:HA	1:TB:701:LYS:HD2	2.02	0.41
1:UB:702:ALA:HB3	1:VB:693:ILE:CB	2.51	0.41
1:VB:522:PHE:HB3	1:WB:573:LYS:HE2	2.02	0.41
1:VB:707:LEU:HD23	1:VB:707:LEU:HA	1.74	0.41
1:VB:770:LEU:HD21	1:VB:774:ARG:CZ	2.50	0.41
1:XB:474:ARG:HE	1:XB:491:PRO:HG2	1.86	0.41
1:XB:687:ARG:HA	1:XB:690:ARG:HG3	2.02	0.41
1:YB:770:LEU:HD21	1:YB:774:ARG:CZ	2.50	0.41
1:ZB:64:PRO:HD2	1:ZB:84:ARG:O	2.20	0.41
1:ZB:339:PRO:HD3	1:ZB:353:ALA:HB2	2.02	0.41
1:ZB:770:LEU:HD21	1:ZB:774:ARG:CZ	2.50	0.41
1:AC:8:ILE:HD11	1:AC:35:TYR:CD2	2.51	0.41
1:A:230:ARG:HH12	1:A:268:LEU:HD21	1.86	0.41
1:A:521:ASP:OD1	1:A:522:PHE:N	2.44	0.41
1:A:701:LYS:O	1:A:704:LYS:HB3	2.21	0.41
1:A:707:LEU:HD23	1:A:707:LEU:HA	1.74	0.41
1:A:713:SER:OG	1:C:707:LEU:HD12	2.20	0.41
1:A:786:GLN:OE1	1:C:781:VAL:HG21	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:654:LEU:O	1:D:534:HIS:CG	2.74	0.41
1:C:95:ASP:O	1:C:97:PHE:N	2.53	0.41
1:C:136:LYS:HA	1:C:136:LYS:HD2	1.86	0.41
1:C:169:LYS:HD2	1:C:169:LYS:HA	1.84	0.41
1:C:701:LYS:O	1:C:704:LYS:HB3	2.21	0.41
1:C:770:LEU:HD23	1:C:771:ILE:N	2.35	0.41
1:D:9:ARG:NH1	1:F:21:GLN:O	2.45	0.41
1:D:171:ASN:ND2	1:F:234:ASN:CG	2.73	0.41
1:D:698:GLU:HA	1:D:701:LYS:HD2	2.02	0.41
1:D:758:GLU:HA	1:D:761:ARG:HB3	2.01	0.41
1:E:58:TYR:CE1	1:E:153:PRO:HG2	2.55	0.41
1:E:698:GLU:HA	1:E:701:LYS:HD2	2.02	0.41
1:F:401:VAL:HG11	1:F:406:TYR:CD2	2.56	0.41
1:F:490:ASP:N	1:F:493:GLU:OE1	2.43	0.41
1:G:60:ILE:HD13	1:G:107:LYS:HB3	2.02	0.41
1:H:219:VAL:HG22	1:H:259:HIS:O	2.20	0.41
1:I:318:ARG:HB2	1:I:321:GLN:OE1	2.20	0.41
1:I:545:TRP:HA	1:I:635:VAL:HA	2.02	0.41
1:I:679:ARG:HA	1:I:679:ARG:NE	2.35	0.41
1:J:687:ARG:HA	1:J:690:ARG:HG3	2.02	0.41
1:K:181:GLU:HA	1:K:191:VAL:HA	2.02	0.41
1:K:701:LYS:O	1:K:704:LYS:HB3	2.21	0.41
1:M:756:GLU:C	1:M:759:LEU:HB3	2.41	0.41
1:N:318:ARG:HB2	1:N:321:GLN:OE1	2.20	0.41
1:O:698:GLU:HA	1:O:701:LYS:HD2	2.02	0.41
1:Q:219:VAL:HG22	1:Q:259:HIS:O	2.20	0.41
1:Q:401:VAL:HG11	1:Q:406:TYR:CD2	2.56	0.41
1:Q:474:ARG:HE	1:Q:491:PRO:HG2	1.86	0.41
1:R:770:LEU:HD23	1:R:771:ILE:N	2.35	0.41
1:S:64:PRO:HD2	1:S:84:ARG:O	2.20	0.41
1:T:95:ASP:O	1:T:97:PHE:N	2.53	0.41
1:T:169:LYS:HD2	1:T:170:GLN:H	1.85	0.41
1:T:770:LEU:HD21	1:T:774:ARG:CZ	2.50	0.41
1:V:474:ARG:HE	1:V:491:PRO:HG2	1.86	0.41
1:W:138:MET:HB3	1:W:141:ASP:OD1	2.21	0.41
1:W:236:LYS:HE3	1:W:236:LYS:HB2	1.77	0.41
1:W:701:LYS:O	1:W:704:LYS:HB3	2.21	0.41
1:X:701:LYS:O	1:X:704:LYS:HB3	2.21	0.41
1:Y:169:LYS:HD2	1:Y:170:GLN:H	1.85	0.41
1:Z:123:LEU:HD23	1:Z:123:LEU:HA	1.93	0.41
1:Z:756:GLU:C	1:Z:759:LEU:HB3	2.41	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:138:MET:HB3	1:AA:141:ASP:OD1	2.21	0.41
1:AA:339:PRO:HD3	1:AA:353:ALA:HB2	2.02	0.41
1:AA:401:VAL:HG11	1:AA:406:TYR:CD2	2.56	0.41
1:AA:701:LYS:O	1:AA:704:LYS:HB3	2.21	0.41
1:AA:770:LEU:HD23	1:AA:771:ILE:N	2.36	0.41
1:BA:138:MET:HB3	1:BA:141:ASP:OD1	2.21	0.41
1:BA:679:ARG:HA	1:BA:679:ARG:NE	2.35	0.41
1:CA:16:ILE:HA	1:CA:45:PHE:CE1	2.55	0.41
1:CA:64:PRO:HD2	1:CA:84:ARG:O	2.20	0.41
1:DA:474:ARG:HE	1:DA:491:PRO:HG2	1.86	0.41
1:EA:209:PHE:CE2	1:EA:210:GLU:HG3	2.55	0.41
1:EA:679:ARG:HA	1:EA:679:ARG:NE	2.35	0.41
1:FA:318:ARG:HB2	1:FA:321:GLN:OE1	2.20	0.41
1:GA:169:LYS:HD2	1:GA:170:GLN:H	1.85	0.41
1:HA:129:PHE:CE1	1:HA:137:VAL:HG11	2.54	0.41
1:HA:230:ARG:HH12	1:HA:268:LEU:HD21	1.86	0.41
1:IA:504:ARG:HH22	1:IA:524:THR:HG1	1.67	0.41
1:IA:714:MET:HA	1:IA:717:GLU:HB3	2.01	0.41
1:IA:717:GLU:HB2	1:KA:707:LEU:CB	2.51	0.41
1:IA:770:LEU:HD23	1:IA:771:ILE:N	2.35	0.41
1:JA:679:ARG:HA	1:JA:679:ARG:NE	2.36	0.41
1:JA:770:LEU:HD23	1:JA:771:ILE:N	2.36	0.41
1:OA:169:LYS:HD2	1:OA:170:GLN:H	1.85	0.41
1:OA:230:ARG:HH12	1:OA:268:LEU:HD21	1.86	0.41
1:PA:230:ARG:HH12	1:PA:268:LEU:HD21	1.86	0.41
1:QA:401:VAL:HG11	1:QA:406:TYR:CD2	2.56	0.41
1:SA:169:LYS:HD2	1:SA:170:GLN:H	1.85	0.41
1:TA:174:LEU:HD12	1:TA:174:LEU:HA	1.92	0.41
1:TA:181:GLU:HA	1:TA:191:VAL:HA	2.02	0.41
1:TA:209:PHE:CE2	1:TA:210:GLU:HG3	2.55	0.41
1:UA:95:ASP:O	1:UA:97:PHE:N	2.53	0.41
1:VA:169:LYS:HD2	1:VA:169:LYS:HA	1.84	0.41
1:WA:123:LEU:HD23	1:WA:123:LEU:HA	1.93	0.41
1:XA:123:LEU:HD23	1:XA:123:LEU:HA	1.93	0.41
1:XA:138:MET:HB3	1:XA:141:ASP:OD1	2.21	0.41
1:XA:591:PHE:CD1	1:XA:598:ILE:HD11	2.42	0.41
1:XA:698:GLU:HA	1:XA:701:LYS:HD2	2.02	0.41
1:YA:95:ASP:O	1:YA:97:PHE:N	2.54	0.41
1:YA:181:GLU:HA	1:YA:191:VAL:HA	2.02	0.41
1:ZA:219:VAL:HG22	1:ZA:259:HIS:O	2.20	0.41
1:AB:95:ASP:O	1:AB:97:PHE:N	2.53	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AB:169:LYS:HD2	1:AB:170:GLN:H	1.85	0.41
1:BB:169:LYS:HD2	1:BB:170:GLN:H	1.85	0.41
1:BB:545:TRP:HA	1:BB:635:VAL:HA	2.02	0.41
1:BB:814:GLY:HA2	1:BB:815:PRO:HD3	1.89	0.41
1:CB:60:ILE:HD13	1:CB:107:LYS:HB3	2.02	0.41
1:CB:138:MET:HB3	1:CB:141:ASP:OD1	2.21	0.41
1:CB:474:ARG:HE	1:CB:491:PRO:HG2	1.86	0.41
1:DB:8:ILE:HD11	1:DB:35:TYR:CD2	2.51	0.41
1:DB:230:ARG:HH12	1:DB:268:LEU:HD21	1.86	0.41
1:DB:401:VAL:HG11	1:DB:406:TYR:CD2	2.56	0.41
1:DB:756:GLU:C	1:DB:759:LEU:HB3	2.41	0.41
1:EB:401:VAL:HG11	1:EB:406:TYR:CD2	2.56	0.41
1:FB:328:GLU:HG2	1:GB:394:LYS:HD3	2.03	0.41
1:FB:698:GLU:HA	1:FB:701:LYS:HD2	2.02	0.41
1:FB:770:LEU:HD23	1:FB:771:ILE:N	2.35	0.41
1:IB:230:ARG:HH12	1:IB:268:LEU:HD21	1.86	0.41
1:KB:533:ASP:CG	1:KB:587:THR:HG1	2.17	0.41
1:LB:95:ASP:O	1:LB:97:PHE:N	2.54	0.41
1:LB:181:GLU:HA	1:LB:191:VAL:HA	2.02	0.41
1:LB:339:PRO:HD3	1:LB:353:ALA:HB2	2.02	0.41
1:LB:701:LYS:O	1:LB:704:LYS:HB3	2.21	0.41
1:LB:716:VAL:HG13	1:MB:708:GLU:CG	2.41	0.41
1:MB:735:ILE:HB	1:NB:726:ALA:HB1	2.02	0.41
1:NB:687:ARG:HA	1:NB:690:ARG:HG3	2.02	0.41
1:NB:701:LYS:O	1:NB:704:LYS:HB3	2.21	0.41
1:OB:95:ASP:O	1:OB:97:PHE:N	2.53	0.41
1:OB:209:PHE:CE2	1:OB:210:GLU:HG3	2.55	0.41
1:OB:401:VAL:HG11	1:OB:406:TYR:CD2	2.56	0.41
1:PB:58:TYR:CE1	1:PB:153:PRO:HG2	2.55	0.41
1:PB:742:LEU:HD12	1:PB:742:LEU:HA	1.86	0.41
1:QB:123:LEU:HD23	1:QB:123:LEU:HA	1.93	0.41
1:QB:223:GLU:OE2	1:QB:224:LYS:NZ	2.42	0.41
1:QB:765:VAL:HG12	1:RB:759:LEU:CD1	2.51	0.41
1:QB:770:LEU:HD23	1:QB:771:ILE:N	2.35	0.41
1:SB:687:ARG:HA	1:SB:690:ARG:HG3	2.02	0.41
1:TB:95:ASP:O	1:TB:97:PHE:N	2.54	0.41
1:TB:339:PRO:HD3	1:TB:353:ALA:HB2	2.02	0.41
1:UB:95:ASP:O	1:UB:97:PHE:N	2.53	0.41
1:UB:169:LYS:HD2	1:UB:169:LYS:HA	1.84	0.41
1:UB:801:ALA:CB	1:VB:799:THR:HB	2.50	0.41
1:VB:701:LYS:O	1:VB:704:LYS:HB3	2.21	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:VB:764:LYS:HB3	1:WB:759:LEU:HD11	2.03	0.41
1:WB:770:LEU:HD23	1:WB:771:ILE:N	2.36	0.41
1:XB:138:MET:HB3	1:XB:141:ASP:OD1	2.21	0.41
1:XB:209:PHE:CE2	1:XB:210:GLU:HG3	2.55	0.41
1:XB:545:TRP:HA	1:XB:635:VAL:HA	2.02	0.41
1:YB:95:ASP:O	1:YB:97:PHE:N	2.53	0.41
1:ZB:136:LYS:HD2	1:ZB:136:LYS:HA	1.86	0.41
1:ZB:545:TRP:HA	1:ZB:635:VAL:HA	2.02	0.41
1:AC:219:VAL:HG22	1:AC:259:HIS:O	2.20	0.41
1:A:18:VAL:O	1:A:26:SER:HA	2.21	0.41
1:A:169:LYS:HD2	1:A:170:GLN:H	1.85	0.41
1:A:695:ASP:HB3	1:C:686:GLY:C	2.41	0.41
1:A:735:ILE:O	1:C:730:ALA:CB	2.69	0.41
1:B:169:LYS:HD2	1:B:170:GLN:H	1.85	0.41
1:B:181:GLU:HA	1:B:191:VAL:HA	2.02	0.41
1:B:230:ARG:HH12	1:B:268:LEU:HD21	1.86	0.41
1:B:318:ARG:HB2	1:B:321:GLN:OE1	2.20	0.41
1:B:474:ARG:HE	1:B:491:PRO:HG2	1.86	0.41
1:B:521:ASP:HB3	1:B:545:TRP:CZ2	2.56	0.41
1:B:535:ALA:HA	1:AC:658:VAL:HG11	2.03	0.41
1:B:687:ARG:HA	1:B:690:ARG:HG3	2.02	0.41
1:B:698:GLU:HA	1:B:701:LYS:HD2	2.02	0.41
1:B:707:LEU:HD23	1:B:707:LEU:HA	1.74	0.41
1:C:60:ILE:HD13	1:C:107:LYS:HB3	2.02	0.41
1:C:401:VAL:HG11	1:C:406:TYR:CD2	2.56	0.41
1:C:521:ASP:HB3	1:C:545:TRP:CZ2	2.56	0.41
1:C:779:LEU:CD2	1:E:770:LEU:CA	2.99	0.41
1:D:224:LYS:HD2	1:F:294:ASN:CG	2.40	0.41
1:D:382:LEU:C	1:F:396:GLY:HA3	2.41	0.41
1:D:401:VAL:HG11	1:D:406:TYR:CD2	2.56	0.41
1:D:484:PRO:O	1:F:471:TYR:CE2	2.70	0.41
1:E:244:ARG:HD3	1:E:244:ARG:HA	1.85	0.41
1:E:318:ARG:HB2	1:E:321:GLN:OE1	2.20	0.41
1:F:60:ILE:HD13	1:F:107:LYS:HB3	2.02	0.41
1:F:181:GLU:HA	1:F:191:VAL:HA	2.02	0.41
1:F:545:TRP:HA	1:F:635:VAL:HA	2.02	0.41
1:F:579:VAL:HG13	1:F:599:ILE:HG13	2.03	0.41
1:G:701:LYS:O	1:G:704:LYS:HB3	2.21	0.41
1:G:756:GLU:C	1:G:759:LEU:HB3	2.41	0.41
1:H:230:ARG:HH12	1:H:268:LEU:HD21	1.86	0.41
1:H:474:ARG:HE	1:H:491:PRO:HG2	1.86	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:687:ARG:HA	1:H:690:ARG:HG3	2.02	0.41
1:H:701:LYS:O	1:H:704:LYS:HB3	2.21	0.41
1:H:801:ALA:HB1	1:J:796:LYS:HG3	2.02	0.41
1:I:95:ASP:O	1:I:97:PHE:N	2.53	0.41
1:J:95:ASP:O	1:J:97:PHE:N	2.53	0.41
1:J:474:ARG:HE	1:J:491:PRO:HG2	1.86	0.41
1:J:698:GLU:HA	1:J:701:LYS:HD2	2.02	0.41
1:K:756:GLU:C	1:K:759:LEU:HB3	2.41	0.41
1:L:169:LYS:NZ	1:N:233:GLN:HE22	2.18	0.41
1:L:181:GLU:HA	1:L:191:VAL:HA	2.02	0.41
1:L:474:ARG:HE	1:L:491:PRO:HG2	1.86	0.41
1:L:545:TRP:HA	1:L:635:VAL:HA	2.02	0.41
1:M:18:VAL:O	1:M:26:SER:HA	2.21	0.41
1:M:219:VAL:HG22	1:M:259:HIS:O	2.20	0.41
1:M:591:PHE:CD1	1:M:598:ILE:HD11	2.42	0.41
1:N:138:MET:HB3	1:N:141:ASP:OD1	2.21	0.41
1:N:174:LEU:HD12	1:N:174:LEU:HA	1.92	0.41
1:N:687:ARG:NH2	1:P:679:ARG:HD2	2.35	0.41
1:N:770:LEU:HD23	1:N:771:ILE:N	2.36	0.41
1:O:16:ILE:HA	1:O:45:PHE:CE1	2.55	0.41
1:O:181:GLU:HA	1:O:191:VAL:HA	2.02	0.41
1:O:230:ARG:HH12	1:O:268:LEU:HD21	1.86	0.41
1:O:679:ARG:HA	1:O:679:ARG:NE	2.35	0.41
1:O:814:GLY:HA2	1:O:815:PRO:HD3	1.89	0.41
1:P:64:PRO:HD2	1:P:84:ARG:O	2.20	0.41
1:P:474:ARG:HE	1:P:491:PRO:HG2	1.86	0.41
1:P:701:LYS:O	1:P:704:LYS:HB3	2.21	0.41
1:P:790:VAL:HG11	1:R:788:ALA:HB2	2.01	0.41
1:Q:690:ARG:O	1:Q:693:ILE:HB	2.21	0.41
1:Q:770:LEU:HD23	1:Q:771:ILE:N	2.36	0.41
1:R:401:VAL:HG11	1:R:406:TYR:CD2	2.56	0.41
1:R:592:HIS:HE1	1:T:530:GLU:HB3	1.85	0.41
1:R:690:ARG:O	1:R:693:ILE:HB	2.21	0.41
1:S:95:ASP:O	1:S:97:PHE:N	2.53	0.41
1:S:138:MET:HB3	1:S:141:ASP:OD1	2.21	0.41
1:S:169:LYS:HD2	1:S:170:GLN:H	1.85	0.41
1:S:230:ARG:HH12	1:S:268:LEU:HD21	1.86	0.41
1:S:236:LYS:HE3	1:S:236:LYS:HB2	1.77	0.41
1:S:310:LEU:HD23	1:S:310:LEU:HA	1.92	0.41
1:T:60:ILE:HD13	1:T:107:LYS:HB3	2.02	0.41
1:T:318:ARG:HB2	1:T:321:GLN:OE1	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:V:16:ILE:HA	1:V:45:PHE:CE1	2.55	0.41
1:V:318:ARG:HB2	1:V:321:GLN:OE1	2.20	0.41
1:V:339:PRO:HD3	1:V:353:ALA:HB2	2.02	0.41
1:V:401:VAL:HG11	1:V:406:TYR:CD2	2.56	0.41
1:V:587:THR:HG1	1:V:588:PHE:H	1.69	0.41
1:V:758:GLU:HA	1:V:761:ARG:HB3	2.01	0.41
1:W:8:ILE:HD11	1:W:35:TYR:CD2	2.51	0.41
1:W:654:LEU:HA	1:W:654:LEU:HD23	1.84	0.41
1:W:756:GLU:C	1:W:759:LEU:HB3	2.41	0.41
1:X:64:PRO:HD2	1:X:84:ARG:O	2.20	0.41
1:X:209:PHE:CE2	1:X:210:GLU:HG3	2.55	0.41
1:Y:236:LYS:HB2	1:Y:236:LYS:HE3	1.77	0.41
1:Y:244:ARG:HD3	1:Y:244:ARG:HA	1.86	0.41
1:Y:474:ARG:HE	1:Y:491:PRO:HG2	1.86	0.41
1:Z:18:VAL:O	1:Z:26:SER:HA	2.21	0.41
1:Z:95:ASP:O	1:Z:97:PHE:N	2.53	0.41
1:Z:138:MET:HB3	1:Z:141:ASP:OD1	2.21	0.41
1:Z:401:VAL:HG11	1:Z:406:TYR:CD2	2.56	0.41
1:AA:377:ARG:HD3	1:AA:377:ARG:HA	1.93	0.41
1:AA:521:ASP:HB3	1:AA:545:TRP:CZ2	2.56	0.41
1:BA:339:PRO:HD3	1:BA:353:ALA:HB2	2.02	0.41
1:BA:474:ARG:HE	1:BA:491:PRO:HG2	1.86	0.41
1:BA:521:ASP:HB3	1:BA:545:TRP:CZ2	2.56	0.41
1:BA:770:LEU:HD23	1:BA:771:ILE:N	2.36	0.41
1:CA:60:ILE:HD13	1:CA:107:LYS:HB3	2.02	0.41
1:CA:95:ASP:O	1:CA:97:PHE:N	2.54	0.41
1:CA:814:GLY:HA2	1:CA:815:PRO:HD3	1.89	0.41
1:DA:18:VAL:O	1:DA:26:SER:HA	2.21	0.41
1:DA:60:ILE:HD13	1:DA:107:LYS:HB3	2.02	0.41
1:DA:209:PHE:CE2	1:DA:210:GLU:HG3	2.55	0.41
1:DA:679:ARG:HA	1:DA:679:ARG:NE	2.35	0.41
1:DA:701:LYS:O	1:DA:704:LYS:HB3	2.21	0.41
1:DA:770:LEU:HD21	1:DA:774:ARG:CZ	2.50	0.41
1:EA:95:ASP:O	1:EA:97:PHE:N	2.53	0.41
1:EA:169:LYS:HD2	1:EA:170:GLN:H	1.85	0.41
1:EA:690:ARG:O	1:EA:693:ILE:HB	2.21	0.41
1:EA:709:LEU:HA	1:EA:709:LEU:HD23	1.82	0.41
1:FA:60:ILE:HD13	1:FA:107:LYS:HB3	2.02	0.41
1:FA:230:ARG:HH12	1:FA:268:LEU:HD21	1.86	0.41
1:FA:679:ARG:HA	1:FA:679:ARG:NE	2.35	0.41
1:FA:758:GLU:HA	1:FA:761:ARG:HB3	2.01	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:GA:60:ILE:HD13	1:GA:107:LYS:HB3	2.02	0.41
1:GA:129:PHE:CD1	1:GA:156:GLU:HG3	2.54	0.41
1:GA:181:GLU:HA	1:GA:191:VAL:HA	2.02	0.41
1:GA:230:ARG:HH12	1:GA:268:LEU:HD21	1.86	0.41
1:GA:318:ARG:HB2	1:GA:321:GLN:OE1	2.20	0.41
1:GA:679:ARG:HA	1:GA:679:ARG:NE	2.35	0.41
1:GA:707:LEU:HA	1:GA:707:LEU:HD23	1.74	0.41
1:GA:770:LEU:HD23	1:GA:771:ILE:N	2.35	0.41
1:HA:401:VAL:HG11	1:HA:406:TYR:CD2	2.56	0.41
1:HA:770:LEU:HD23	1:HA:771:ILE:N	2.36	0.41
1:IA:138:MET:HB3	1:IA:141:ASP:OD1	2.21	0.41
1:JA:18:VAL:O	1:JA:26:SER:HA	2.21	0.41
1:JA:64:PRO:HD2	1:JA:84:ARG:O	2.20	0.41
1:JA:181:GLU:HA	1:JA:191:VAL:HA	2.02	0.41
1:KA:18:VAL:O	1:KA:26:SER:HA	2.21	0.41
1:KA:339:PRO:HD3	1:KA:353:ALA:HB2	2.02	0.41
1:KA:545:TRP:HA	1:KA:635:VAL:HA	2.02	0.41
1:KA:679:ARG:HA	1:KA:679:ARG:NE	2.36	0.41
1:KA:690:ARG:O	1:KA:693:ILE:HB	2.21	0.41
1:LA:60:ILE:HD13	1:LA:107:LYS:HB3	2.02	0.41
1:LA:236:LYS:HE3	1:LA:236:LYS:HB2	1.77	0.41
1:MA:230:ARG:HH12	1:MA:268:LEU:HD21	1.86	0.41
1:NA:209:PHE:CE2	1:NA:210:GLU:HG3	2.55	0.41
1:NA:339:PRO:HD3	1:NA:353:ALA:HB2	2.02	0.41
1:NA:506:LYS:HD3	1:NA:506:LYS:HA	1.81	0.41
1:OA:687:ARG:HA	1:OA:690:ARG:HG3	2.02	0.41
1:OA:701:LYS:O	1:OA:704:LYS:HB3	2.21	0.41
1:PA:814:GLY:HA2	1:PA:815:PRO:HD3	1.89	0.41
1:QA:18:VAL:O	1:QA:26:SER:HA	2.21	0.41
1:QA:60:ILE:HD13	1:QA:107:LYS:HB3	2.02	0.41
1:QA:136:LYS:HD2	1:QA:136:LYS:HA	1.86	0.41
1:QA:169:LYS:HD2	1:QA:170:GLN:H	1.85	0.41
1:QA:690:ARG:O	1:QA:693:ILE:HB	2.21	0.41
1:QA:709:LEU:HA	1:QA:709:LEU:HD23	1.82	0.41
1:QA:770:LEU:HD23	1:QA:771:ILE:N	2.35	0.41
1:SA:60:ILE:HD13	1:SA:107:LYS:HB3	2.02	0.41
1:SA:521:ASP:OD1	1:SA:522:PHE:N	2.44	0.41
1:SA:521:ASP:HB3	1:SA:545:TRP:CZ2	2.56	0.41
1:SA:701:LYS:O	1:SA:704:LYS:HB3	2.21	0.41
1:TA:420:PRO:O	1:TA:421:SER:OG	2.36	0.41
1:TA:474:ARG:HE	1:TA:491:PRO:HG2	1.86	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:UA:770:LEU:HD23	1:UA:771:ILE:N	2.35	0.41
1:VA:8:ILE:HD11	1:VA:35:TYR:CD2	2.51	0.41
1:VA:60:ILE:HD13	1:VA:107:LYS:HB3	2.02	0.41
1:VA:318:ARG:HB2	1:VA:321:GLN:OE1	2.20	0.41
1:VA:521:ASP:OD1	1:VA:522:PHE:N	2.44	0.41
1:VA:698:GLU:HA	1:VA:701:LYS:HD2	2.02	0.41
1:VA:770:LEU:HD23	1:VA:771:ILE:N	2.36	0.41
1:WA:18:VAL:O	1:WA:26:SER:HA	2.21	0.41
1:WA:95:ASP:O	1:WA:97:PHE:N	2.54	0.41
1:WA:136:LYS:HD2	1:WA:136:LYS:HA	1.86	0.41
1:WA:169:LYS:HD2	1:WA:170:GLN:H	1.85	0.41
1:WA:181:GLU:HA	1:WA:191:VAL:HA	2.02	0.41
1:WA:230:ARG:HH12	1:WA:268:LEU:HD21	1.86	0.41
1:WA:756:GLU:C	1:WA:759:LEU:HB3	2.41	0.41
1:WA:758:GLU:HA	1:WA:761:ARG:HB3	2.01	0.41
1:WA:770:LEU:HD23	1:WA:771:ILE:N	2.35	0.41
1:WA:814:GLY:HA2	1:WA:815:PRO:HD3	1.89	0.41
1:XA:169:LYS:HD2	1:XA:170:GLN:H	1.85	0.41
1:XA:181:GLU:HA	1:XA:191:VAL:HA	2.02	0.41
1:XA:318:ARG:HB2	1:XA:321:GLN:OE1	2.20	0.41
1:XA:695:ASP:HB3	1:ZA:686:GLY:CA	2.51	0.41
1:XA:742:LEU:HD12	1:XA:742:LEU:HA	1.86	0.41
1:XA:770:LEU:HD23	1:XA:771:ILE:N	2.35	0.41
1:YA:138:MET:HB3	1:YA:141:ASP:OD1	2.21	0.41
1:YA:230:ARG:HH12	1:YA:268:LEU:HD21	1.86	0.41
1:YA:318:ARG:HB2	1:YA:321:GLN:OE1	2.20	0.41
1:YA:579:VAL:HG13	1:YA:599:ILE:HG13	2.03	0.41
1:YA:698:GLU:HA	1:YA:701:LYS:HD2	2.02	0.41
1:YA:770:LEU:HD23	1:YA:771:ILE:N	2.36	0.41
1:ZA:401:VAL:HG11	1:ZA:406:TYR:CD2	2.56	0.41
1:ZA:506:LYS:HD3	1:ZA:506:LYS:HA	1.81	0.41
1:ZA:679:ARG:NE	1:ZA:679:ARG:HA	2.35	0.41
1:ZA:690:ARG:O	1:ZA:693:ILE:HB	2.21	0.41
1:AB:174:LEU:HD12	1:AB:174:LEU:HA	1.92	0.41
1:AB:318:ARG:HB2	1:AB:321:GLN:OE1	2.20	0.41
1:AB:339:PRO:HD3	1:AB:353:ALA:HB2	2.02	0.41
1:AB:401:VAL:HG11	1:AB:406:TYR:CD2	2.56	0.41
1:AB:474:ARG:HE	1:AB:491:PRO:HG2	1.86	0.41
1:AB:587:THR:HG1	1:AB:588:PHE:H	1.69	0.41
1:BB:169:LYS:HD2	1:BB:169:LYS:HA	1.84	0.41
1:BB:521:ASP:HB3	1:BB:545:TRP:CZ2	2.56	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:BB:698:GLU:HA	1:BB:701:LYS:HD2	2.02	0.41
1:CB:169:LYS:HD2	1:CB:170:GLN:H	1.85	0.41
1:CB:401:VAL:HG11	1:CB:406:TYR:CD2	2.56	0.41
1:CB:724:ALA:CB	1:DB:714:MET:SD	3.08	0.41
1:CB:756:GLU:C	1:CB:759:LEU:HB3	2.41	0.41
1:DB:18:VAL:O	1:DB:26:SER:HA	2.21	0.41
1:DB:136:LYS:HA	1:DB:136:LYS:HD2	1.86	0.41
1:DB:654:LEU:HD23	1:DB:654:LEU:HA	1.84	0.41
1:DB:679:ARG:HA	1:DB:679:ARG:NE	2.35	0.41
1:DB:687:ARG:HA	1:DB:690:ARG:HG3	2.02	0.41
1:DB:701:LYS:O	1:DB:704:LYS:HB3	2.21	0.41
1:EB:587:THR:HG1	1:EB:588:PHE:N	2.18	0.41
1:EB:679:ARG:HA	1:EB:679:ARG:NE	2.36	0.41
1:FB:230:ARG:HH12	1:FB:268:LEU:HD21	1.86	0.41
1:FB:318:ARG:HB2	1:FB:321:GLN:OE1	2.20	0.41
1:FB:474:ARG:HE	1:FB:491:PRO:HG2	1.86	0.41
1:FB:654:LEU:CD2	1:GB:534:HIS:CD2	3.03	0.41
1:FB:690:ARG:O	1:FB:693:ILE:HB	2.21	0.41
1:GB:318:ARG:HB2	1:GB:321:GLN:OE1	2.20	0.41
1:GB:401:VAL:HG11	1:GB:406:TYR:CD2	2.56	0.41
1:HB:521:ASP:HB3	1:HB:545:TRP:CZ2	2.56	0.41
1:IB:58:TYR:CE1	1:IB:153:PRO:HG2	2.55	0.41
1:IB:401:VAL:HG11	1:IB:406:TYR:CD2	2.56	0.41
1:IB:654:LEU:HA	1:IB:654:LEU:HD23	1.84	0.41
1:IB:698:GLU:HA	1:IB:701:LYS:HD2	2.02	0.41
1:IB:717:GLU:HG3	1:JB:707:LEU:HD13	2.02	0.41
1:IB:770:LEU:HD23	1:IB:771:ILE:N	2.35	0.41
1:JB:169:LYS:HD2	1:JB:169:LYS:HA	1.84	0.41
1:JB:230:ARG:HH12	1:JB:268:LEU:HD21	1.86	0.41
1:JB:521:ASP:HB3	1:JB:545:TRP:CZ2	2.56	0.41
1:JB:698:GLU:HA	1:JB:701:LYS:HD2	2.02	0.41
1:KB:60:ILE:HD13	1:KB:107:LYS:HB3	2.02	0.41
1:KB:406:TYR:HH	1:KB:412:GLU:CD	2.25	0.41
1:KB:474:ARG:HE	1:KB:491:PRO:HG2	1.86	0.41
1:LB:520:PRO:O	1:MB:564:VAL:HG23	2.20	0.41
1:LB:706:LEU:CD1	1:MB:696:GLN:C	2.86	0.41
1:LB:770:LEU:HD23	1:LB:771:ILE:N	2.35	0.41
1:MB:679:ARG:HA	1:MB:679:ARG:NE	2.35	0.41
1:MB:687:ARG:HA	1:MB:690:ARG:HG3	2.02	0.41
1:MB:746:LEU:HD13	1:NB:734:ARG:O	2.21	0.41
1:NB:123:LEU:HD23	1:NB:123:LEU:HA	1.93	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:NB:521:ASP:HB3	1:NB:545:TRP:CZ2	2.56	0.41
1:NB:698:GLU:HA	1:NB:701:LYS:HD2	2.02	0.41
1:OB:60:ILE:HD13	1:OB:107:LYS:HB3	2.02	0.41
1:OB:169:LYS:HD2	1:OB:170:GLN:H	1.85	0.41
1:OB:506:LYS:HA	1:OB:506:LYS:HD3	1.82	0.41
1:OB:651:ARG:C	1:OB:653:ALA:H	2.17	0.41
1:OB:786:GLN:OE1	1:PB:781:VAL:HG13	2.21	0.41
1:PB:60:ILE:HD13	1:PB:107:LYS:HB3	2.02	0.41
1:PB:95:ASP:O	1:PB:97:PHE:N	2.53	0.41
1:PB:401:VAL:HG11	1:PB:406:TYR:CD2	2.56	0.41
1:PB:687:ARG:HA	1:PB:690:ARG:HG3	2.02	0.41
1:QB:60:ILE:HD13	1:QB:107:LYS:HB3	2.02	0.41
1:QB:579:VAL:HG13	1:QB:599:ILE:HG13	2.03	0.41
1:QB:770:LEU:HD21	1:QB:774:ARG:CZ	2.50	0.41
1:RB:318:ARG:HB2	1:RB:321:GLN:OE1	2.20	0.41
1:RB:383:ASP:HB3	1:SB:398:VAL:HG23	2.03	0.41
1:RB:698:GLU:OE2	1:RB:701:LYS:NZ	2.42	0.41
1:SB:58:TYR:CE1	1:SB:153:PRO:HG2	2.55	0.41
1:SB:219:VAL:HG22	1:SB:259:HIS:O	2.20	0.41
1:SB:401:VAL:HG11	1:SB:406:TYR:CD2	2.56	0.41
1:TB:138:MET:HB3	1:TB:141:ASP:OD1	2.21	0.41
1:TB:679:ARG:HA	1:TB:679:ARG:NE	2.35	0.41
1:UB:394:LYS:HE3	1:UB:394:LYS:HB2	1.87	0.41
1:UB:701:LYS:O	1:UB:704:LYS:HB3	2.21	0.41
1:VB:8:ILE:HD11	1:VB:35:TYR:CD2	2.51	0.41
1:VB:18:VAL:O	1:VB:26:SER:HA	2.21	0.41
1:VB:60:ILE:HD13	1:VB:107:LYS:HB3	2.02	0.41
1:VB:181:GLU:HA	1:VB:191:VAL:HA	2.02	0.41
1:VB:521:ASP:HB3	1:VB:545:TRP:CZ2	2.56	0.41
1:VB:679:ARG:HA	1:VB:679:ARG:NE	2.35	0.41
1:WB:758:GLU:HA	1:WB:761:ARG:HB3	2.01	0.41
1:XB:95:ASP:O	1:XB:97:PHE:N	2.53	0.41
1:XB:169:LYS:HD2	1:XB:170:GLN:H	1.85	0.41
1:XB:230:ARG:HH12	1:XB:268:LEU:HD21	1.86	0.41
1:YB:770:LEU:HD23	1:YB:771:ILE:N	2.35	0.41
1:ZB:579:VAL:HG13	1:ZB:599:ILE:HG13	2.03	0.41
1:ZB:753:ILE:HD13	1:AC:744:ALA:C	2.40	0.41
1:AC:18:VAL:O	1:AC:26:SER:HA	2.21	0.41
1:AC:209:PHE:CE2	1:AC:210:GLU:HG3	2.55	0.41
1:AC:474:ARG:HE	1:AC:491:PRO:HG2	1.86	0.41
1:A:8:ILE:HD11	1:A:35:TYR:CD2	2.51	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:123:LEU:HD23	1:A:123:LEU:HA	1.93	0.41
1:A:339:PRO:HD3	1:A:353:ALA:HB2	2.02	0.41
1:A:401:VAL:HG11	1:A:406:TYR:CD2	2.56	0.41
1:B:679:ARG:HA	1:B:679:ARG:NE	2.35	0.41
1:B:756:GLU:C	1:B:759:LEU:HB3	2.41	0.41
1:C:230:ARG:HH12	1:C:268:LEU:HD21	1.86	0.41
1:C:310:LEU:HD23	1:C:310:LEU:HA	1.92	0.41
1:C:318:ARG:HB2	1:C:321:GLN:OE1	2.20	0.41
1:C:690:ARG:O	1:C:693:ILE:HB	2.21	0.41
1:C:756:GLU:C	1:C:759:LEU:HB3	2.41	0.41
1:D:138:MET:HB3	1:D:141:ASP:OD1	2.21	0.41
1:D:167:VAL:HG11	1:F:192:THR:O	2.20	0.41
1:D:222:THR:HG22	1:F:247:GLU:HG3	2.00	0.41
1:D:223:GLU:HB3	1:F:293:LYS:HD3	2.04	0.41
1:D:244:ARG:HD3	1:D:244:ARG:HA	1.85	0.41
1:E:474:ARG:HE	1:E:491:PRO:HG2	1.86	0.41
1:F:690:ARG:O	1:F:693:ILE:HB	2.21	0.41
1:G:651:ARG:C	1:G:653:ALA:H	2.17	0.41
1:G:679:ARG:HA	1:G:679:ARG:NE	2.35	0.41
1:G:794:LYS:HB2	1:I:788:ALA:HB1	2.02	0.41
1:I:219:VAL:HG22	1:I:259:HIS:O	2.20	0.41
1:I:521:ASP:OD1	1:I:522:PHE:N	2.44	0.41
1:I:687:ARG:HA	1:I:690:ARG:HG3	2.02	0.41
1:I:690:ARG:O	1:I:693:ILE:HB	2.21	0.41
1:J:60:ILE:HD13	1:J:107:LYS:HB3	2.02	0.41
1:J:138:MET:HB3	1:J:141:ASP:OD1	2.21	0.41
1:J:318:ARG:HB2	1:J:321:GLN:OE1	2.20	0.41
1:J:701:LYS:O	1:J:704:LYS:HB3	2.21	0.41
1:J:756:GLU:C	1:J:759:LEU:HB3	2.41	0.41
1:J:770:LEU:HD23	1:J:771:ILE:N	2.35	0.41
1:K:8:ILE:HD11	1:K:35:TYR:CD2	2.51	0.41
1:L:60:ILE:HD13	1:L:107:LYS:HB3	2.02	0.41
1:L:169:LYS:HD2	1:L:170:GLN:H	1.85	0.41
1:L:690:ARG:O	1:L:693:ILE:HB	2.21	0.41
1:L:775:ALA:HB1	1:N:770:LEU:HD12	2.01	0.41
1:N:123:LEU:HD23	1:N:123:LEU:HA	1.93	0.41
1:N:401:VAL:HG11	1:N:406:TYR:CD2	2.56	0.41
1:O:138:MET:HB3	1:O:141:ASP:OD1	2.21	0.41
1:P:18:VAL:O	1:P:26:SER:HA	2.21	0.41
1:P:318:ARG:HB2	1:P:321:GLN:OE1	2.20	0.41
1:P:500:LEU:HD23	1:P:500:LEU:HA	1.90	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:P:768:MET:HE2	1:P:768:MET:HB3	1.83	0.41
1:Q:18:VAL:O	1:Q:26:SER:HA	2.21	0.41
1:R:506:LYS:HA	1:R:506:LYS:HD3	1.82	0.41
1:R:579:VAL:HG13	1:R:599:ILE:HG13	2.03	0.41
1:T:219:VAL:HG22	1:T:259:HIS:O	2.20	0.41
1:T:603:VAL:HG11	1:T:638:VAL:HG21	2.01	0.41
1:V:244:ARG:HD3	1:V:244:ARG:HA	1.85	0.41
1:W:230:ARG:HH12	1:W:268:LEU:HD21	1.86	0.41
1:W:401:VAL:HG11	1:W:406:TYR:CD2	2.56	0.41
1:Y:770:LEU:HD23	1:Y:771:ILE:N	2.35	0.41
1:Z:506:LYS:HA	1:Z:506:LYS:HD3	1.81	0.41
1:Z:533:ASP:CG	1:Z:587:THR:HG1	2.16	0.41
1:Z:690:ARG:O	1:Z:693:ILE:HB	2.22	0.41
1:Z:709:LEU:HA	1:Z:709:LEU:HD23	1.82	0.41
1:AA:60:ILE:HD13	1:AA:107:LYS:HB3	2.02	0.41
1:AA:687:ARG:HA	1:AA:690:ARG:HG3	2.02	0.41
1:BA:123:LEU:HD23	1:BA:123:LEU:HA	1.93	0.41
1:BA:181:GLU:HA	1:BA:191:VAL:HA	2.02	0.41
1:BA:230:ARG:HH12	1:BA:268:LEU:HD21	1.86	0.41
1:CA:138:MET:HB3	1:CA:141:ASP:OD1	2.21	0.41
1:CA:687:ARG:HA	1:CA:690:ARG:HG3	2.02	0.41
1:CA:756:GLU:C	1:CA:759:LEU:HB3	2.41	0.41
1:DA:95:ASP:O	1:DA:97:PHE:N	2.53	0.41
1:DA:339:PRO:HD3	1:DA:353:ALA:HB2	2.02	0.41
1:EA:138:MET:HB3	1:EA:141:ASP:OD1	2.21	0.41
1:EA:401:VAL:HG11	1:EA:406:TYR:CD2	2.56	0.41
1:FA:310:LEU:HD23	1:FA:310:LEU:HA	1.92	0.41
1:FA:339:PRO:HD3	1:FA:353:ALA:HB2	2.02	0.41
1:FA:814:GLY:HA2	1:FA:815:PRO:HD3	1.89	0.41
1:HA:169:LYS:HD2	1:HA:169:LYS:HA	1.84	0.41
1:HA:169:LYS:HD2	1:HA:170:GLN:H	1.85	0.41
1:HA:698:GLU:HA	1:HA:701:LYS:HD2	2.02	0.41
1:IA:18:VAL:O	1:IA:26:SER:HA	2.21	0.41
1:IA:181:GLU:HA	1:IA:191:VAL:HA	2.02	0.41
1:IA:230:ARG:HH12	1:IA:268:LEU:HD21	1.86	0.41
1:IA:278:PRO:HD3	1:KA:298:GLN:CA	2.46	0.41
1:JA:545:TRP:HA	1:JA:635:VAL:HA	2.02	0.41
1:JA:687:ARG:HA	1:JA:690:ARG:HG3	2.02	0.41
1:KA:223:GLU:OE2	1:KA:224:LYS:NZ	2.42	0.41
1:KA:474:ARG:HE	1:KA:491:PRO:HG2	1.86	0.41
1:LA:299:LYS:HE2	1:LA:299:LYS:HB3	1.92	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:MA:18:VAL:O	1:MA:26:SER:HA	2.21	0.41
1:MA:690:ARG:O	1:MA:693:ILE:HB	2.21	0.41
1:NA:138:MET:HB3	1:NA:141:ASP:OD1	2.21	0.41
1:OA:60:ILE:HD13	1:OA:107:LYS:HB3	2.02	0.41
1:OA:679:ARG:HA	1:OA:679:ARG:NE	2.35	0.41
1:PA:60:ILE:HD13	1:PA:107:LYS:HB3	2.02	0.41
1:QA:181:GLU:HA	1:QA:191:VAL:HA	2.02	0.41
1:SA:18:VAL:O	1:SA:26:SER:HA	2.21	0.41
1:SA:545:TRP:HA	1:SA:635:VAL:HA	2.02	0.41
1:TA:230:ARG:HH12	1:TA:268:LEU:HD21	1.86	0.41
1:TA:603:VAL:HG11	1:TA:638:VAL:HG21	2.01	0.41
1:TA:690:ARG:O	1:TA:693:ILE:HB	2.21	0.41
1:UA:181:GLU:HA	1:UA:191:VAL:HA	2.02	0.41
1:UA:698:GLU:HA	1:UA:701:LYS:HD2	2.02	0.41
1:WA:679:ARG:HA	1:WA:679:ARG:NE	2.35	0.41
1:XA:506:LYS:HA	1:XA:506:LYS:HD3	1.82	0.41
1:YA:474:ARG:HE	1:YA:491:PRO:HG2	1.86	0.41
1:YA:701:LYS:O	1:YA:704:LYS:HB3	2.21	0.41
1:ZA:138:MET:HB3	1:ZA:141:ASP:OD1	2.21	0.41
1:AB:687:ARG:HA	1:AB:690:ARG:HG3	2.02	0.41
1:BB:136:LYS:HA	1:BB:136:LYS:HD2	1.86	0.41
1:CB:219:VAL:HG22	1:CB:259:HIS:O	2.20	0.41
1:CB:521:ASP:HB3	1:CB:545:TRP:CZ2	2.56	0.41
1:CB:687:ARG:HA	1:CB:690:ARG:HG3	2.03	0.41
1:CB:701:LYS:O	1:CB:704:LYS:HB3	2.21	0.41
1:DB:13:TYR:HB2	1:DB:49:ARG:HH22	1.84	0.41
1:DB:95:ASP:O	1:DB:97:PHE:N	2.53	0.41
1:DB:684:ALA:HB1	1:EB:675:HIS:HB3	2.03	0.41
1:DB:690:ARG:O	1:DB:693:ILE:HB	2.21	0.41
1:EB:339:PRO:HD3	1:EB:353:ALA:HB2	2.02	0.41
1:EB:394:LYS:HE3	1:EB:394:LYS:HB2	1.87	0.41
1:EB:545:TRP:HA	1:EB:635:VAL:HA	2.02	0.41
1:EB:770:LEU:HD23	1:EB:771:ILE:N	2.36	0.41
1:FB:169:LYS:CE	1:GB:233:GLN:HE22	2.33	0.41
1:FB:181:GLU:HA	1:FB:191:VAL:HA	2.02	0.41
1:FB:679:ARG:HA	1:FB:679:ARG:NE	2.35	0.41
1:HB:18:VAL:O	1:HB:26:SER:HA	2.21	0.41
1:IB:698:GLU:OE2	1:IB:701:LYS:NZ	2.42	0.41
1:JB:521:ASP:OD1	1:JB:522:PHE:N	2.44	0.41
1:KB:690:ARG:O	1:KB:693:ILE:HB	2.21	0.41
1:MB:138:MET:HB3	1:MB:141:ASP:OD1	2.21	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:MB:474:ARG:HE	1:MB:491:PRO:HG2	1.86	0.41
1:MB:579:VAL:HG13	1:MB:599:ILE:HG13	2.03	0.41
1:MB:690:ARG:O	1:MB:693:ILE:HB	2.21	0.41
1:NB:95:ASP:O	1:NB:97:PHE:N	2.54	0.41
1:NB:770:LEU:HD23	1:NB:771:ILE:N	2.35	0.41
1:OB:464:HIS:ND1	1:PB:496:THR:HG23	2.35	0.41
1:OB:687:ARG:NH2	1:PB:679:ARG:HH11	2.19	0.41
1:OB:701:LYS:O	1:OB:704:LYS:HB3	2.21	0.41
1:QB:775:ALA:HB1	1:RB:770:LEU:CD1	2.51	0.41
1:RB:60:ILE:HD13	1:RB:107:LYS:HB3	2.02	0.41
1:SB:18:VAL:O	1:SB:26:SER:HA	2.21	0.41
1:SB:770:LEU:HD23	1:SB:771:ILE:N	2.36	0.41
1:TB:680:LEU:CB	1:UB:675:HIS:CE1	3.04	0.41
1:UB:136:LYS:HD2	1:UB:136:LYS:HA	1.86	0.41
1:VB:651:ARG:C	1:VB:653:ALA:H	2.17	0.41
1:VB:731:GLU:CG	1:WB:723:LYS:HD3	2.48	0.41
1:VB:770:LEU:HD23	1:VB:771:ILE:N	2.36	0.41
1:WB:690:ARG:O	1:WB:693:ILE:HB	2.21	0.41
1:WB:701:LYS:O	1:WB:704:LYS:HB3	2.21	0.41
1:XB:701:LYS:O	1:XB:704:LYS:HB3	2.21	0.41
1:XB:707:LEU:HD23	1:XB:707:LEU:HA	1.74	0.41
1:YB:521:ASP:HB3	1:YB:545:TRP:CZ2	2.56	0.41
1:YB:687:ARG:HA	1:YB:690:ARG:HG3	2.02	0.41
1:YB:690:ARG:O	1:YB:693:ILE:HB	2.21	0.41
1:ZB:679:ARG:HA	1:ZB:679:ARG:NE	2.36	0.41
1:AC:138:MET:HB3	1:AC:141:ASP:OD1	2.21	0.41
1:AC:814:GLY:HA2	1:AC:815:PRO:HD3	1.89	0.41
1:A:181:GLU:HA	1:A:191:VAL:HA	2.02	0.40
1:A:679:ARG:HA	1:A:679:ARG:NE	2.35	0.40
1:A:761:ARG:HB2	1:C:751:LEU:C	2.35	0.40
1:B:60:ILE:HD13	1:B:107:LYS:HB3	2.02	0.40
1:D:52:THR:CA	1:F:86:ALA:HB2	2.40	0.40
1:D:60:ILE:HD13	1:D:107:LYS:HB3	2.02	0.40
1:D:112:LEU:CD2	1:F:128:ASP:CB	2.97	0.40
1:D:181:GLU:HA	1:D:191:VAL:HA	2.02	0.40
1:D:381:PRO:C	1:F:396:GLY:HA3	2.40	0.40
1:D:690:ARG:O	1:D:693:ILE:HB	2.21	0.40
1:E:339:PRO:HD3	1:E:353:ALA:HB2	2.02	0.40
1:E:579:VAL:HG13	1:E:599:ILE:HG13	2.03	0.40
1:E:687:ARG:HA	1:E:690:ARG:HG3	2.02	0.40
1:E:756:GLU:C	1:E:759:LEU:HB3	2.41	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:790:VAL:HG22	1:G:785:GLN:HE21	1.87	0.40
1:F:679:ARG:HA	1:F:679:ARG:NE	2.35	0.40
1:H:56:ARG:HG3	1:J:128:ASP:HB3	2.02	0.40
1:H:60:ILE:HD13	1:H:107:LYS:HB3	2.02	0.40
1:I:758:GLU:HA	1:I:761:ARG:HB3	2.01	0.40
1:J:169:LYS:HD2	1:J:170:GLN:H	1.85	0.40
1:J:521:ASP:HB3	1:J:545:TRP:CZ2	2.56	0.40
1:K:169:LYS:HD2	1:K:169:LYS:HA	1.84	0.40
1:K:401:VAL:HG11	1:K:406:TYR:CD2	2.56	0.40
1:K:521:ASP:OD1	1:K:522:PHE:N	2.44	0.40
1:L:521:ASP:HB3	1:L:545:TRP:CZ2	2.56	0.40
1:M:169:LYS:HD2	1:M:169:LYS:HA	1.84	0.40
1:M:174:LEU:HD12	1:M:174:LEU:HA	1.92	0.40
1:M:770:LEU:HD23	1:M:771:ILE:N	2.36	0.40
1:N:687:ARG:HA	1:N:690:ARG:HG3	2.03	0.40
1:N:690:ARG:O	1:N:693:ILE:HB	2.21	0.40
1:O:401:VAL:HG11	1:O:406:TYR:CD2	2.56	0.40
1:O:768:MET:CE	1:Q:763:LYS:HB2	2.50	0.40
1:R:474:ARG:HE	1:R:491:PRO:HG2	1.86	0.40
1:R:521:ASP:OD1	1:R:522:PHE:N	2.44	0.40
1:S:521:ASP:HB3	1:S:545:TRP:CZ2	2.56	0.40
1:T:690:ARG:O	1:T:693:ILE:HB	2.21	0.40
1:V:20:ASP:O	1:V:23:SER:N	2.39	0.40
1:V:181:GLU:HA	1:V:191:VAL:HA	2.02	0.40
1:V:690:ARG:O	1:V:693:ILE:HB	2.21	0.40
1:W:174:LEU:HD12	1:W:174:LEU:HA	1.92	0.40
1:W:545:TRP:HA	1:W:635:VAL:HA	2.02	0.40
1:X:310:LEU:HD23	1:X:310:LEU:HA	1.92	0.40
1:X:474:ARG:HE	1:X:491:PRO:HG2	1.86	0.40
1:Y:95:ASP:O	1:Y:97:PHE:N	2.53	0.40
1:Y:521:ASP:HB3	1:Y:545:TRP:CZ2	2.56	0.40
1:Z:377:ARG:HD3	1:Z:377:ARG:HA	1.93	0.40
1:CA:579:VAL:HG13	1:CA:599:ILE:HG13	2.03	0.40
1:CA:651:ARG:C	1:CA:653:ALA:H	2.17	0.40
1:CA:690:ARG:O	1:CA:693:ILE:HB	2.21	0.40
1:EA:420:PRO:O	1:EA:421:SER:OG	2.36	0.40
1:FA:521:ASP:HB3	1:FA:545:TRP:CZ2	2.56	0.40
1:FA:701:LYS:O	1:FA:704:LYS:HB3	2.21	0.40
1:GA:698:GLU:HA	1:GA:701:LYS:HD2	2.02	0.40
1:HA:16:ILE:HA	1:HA:45:PHE:CE1	2.55	0.40
1:HA:18:VAL:O	1:HA:26:SER:HA	2.21	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:HA:654:LEU:HA	1:HA:654:LEU:HD23	1.84	0.40
1:IA:545:TRP:HA	1:IA:635:VAL:HA	2.02	0.40
1:JA:523:PHE:HB2	1:JA:543:TYR:HD2	1.87	0.40
1:KA:521:ASP:HB3	1:KA:545:TRP:CZ2	2.56	0.40
1:KA:701:LYS:O	1:KA:704:LYS:HB3	2.21	0.40
1:LA:401:VAL:HG11	1:LA:406:TYR:CD2	2.56	0.40
1:MA:8:ILE:HD11	1:MA:35:TYR:CD2	2.51	0.40
1:MA:401:VAL:HG11	1:MA:406:TYR:CD2	2.56	0.40
1:MA:579:VAL:HG13	1:MA:599:ILE:HG13	2.03	0.40
1:MA:654:LEU:HD23	1:MA:654:LEU:HA	1.84	0.40
1:MA:687:ARG:HA	1:MA:690:ARG:HG3	2.02	0.40
1:NA:95:ASP:O	1:NA:97:PHE:N	2.53	0.40
1:PA:394:LYS:HE3	1:PA:394:LYS:HB2	1.87	0.40
1:PA:690:ARG:O	1:PA:693:ILE:HB	2.21	0.40
1:QA:244:ARG:HD3	1:QA:244:ARG:HA	1.85	0.40
1:QA:521:ASP:HB3	1:QA:545:TRP:CZ2	2.56	0.40
1:QA:756:GLU:C	1:QA:759:LEU:HB3	2.41	0.40
1:RA:181:GLU:HA	1:RA:191:VAL:HA	2.02	0.40
1:RA:230:ARG:HH12	1:RA:268:LEU:HD21	1.86	0.40
1:SA:579:VAL:HG13	1:SA:599:ILE:HG13	2.03	0.40
1:TA:401:VAL:HG11	1:TA:406:TYR:CD2	2.56	0.40
1:TA:490:ASP:HB3	1:TA:491:PRO:HD2	2.01	0.40
1:UA:545:TRP:HA	1:UA:635:VAL:HA	2.02	0.40
1:VA:230:ARG:HH12	1:VA:268:LEU:HD21	1.86	0.40
1:VA:401:VAL:HG11	1:VA:406:TYR:CD2	2.56	0.40
1:VA:579:VAL:HG13	1:VA:599:ILE:HG13	2.03	0.40
1:XA:579:VAL:HG13	1:XA:599:ILE:HG13	2.03	0.40
1:XA:690:ARG:O	1:XA:693:ILE:HB	2.21	0.40
1:XA:814:GLY:HA2	1:XA:815:PRO:HD3	1.89	0.40
1:BB:18:VAL:O	1:BB:26:SER:HA	2.21	0.40
1:BB:474:ARG:HE	1:BB:491:PRO:HG2	1.86	0.40
1:CB:230:ARG:HH12	1:CB:268:LEU:HD21	1.86	0.40
1:CB:318:ARG:HB2	1:CB:321:GLN:OE1	2.20	0.40
1:DB:169:LYS:HD2	1:DB:170:GLN:H	1.85	0.40
1:DB:699:ALA:HA	1:EB:690:ARG:HG2	2.03	0.40
1:EB:521:ASP:HB3	1:EB:545:TRP:CZ2	2.56	0.40
1:FB:60:ILE:HD13	1:FB:107:LYS:HB3	2.02	0.40
1:FB:310:LEU:HD23	1:FB:310:LEU:HA	1.92	0.40
1:GB:18:VAL:O	1:GB:26:SER:HA	2.21	0.40
1:GB:95:ASP:O	1:GB:97:PHE:N	2.54	0.40
1:GB:169:LYS:HD2	1:GB:170:GLN:H	1.85	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:GB:230:ARG:HH12	1:GB:268:LEU:HD21	1.86	0.40
1:GB:474:ARG:HE	1:GB:491:PRO:HG2	1.86	0.40
1:GB:687:ARG:HA	1:GB:690:ARG:HG3	2.02	0.40
1:GB:701:LYS:O	1:GB:704:LYS:HB3	2.21	0.40
1:HB:545:TRP:HA	1:HB:635:VAL:HA	2.02	0.40
1:HB:679:ARG:HA	1:HB:679:ARG:NE	2.35	0.40
1:IB:579:VAL:HG13	1:IB:599:ILE:HG13	2.03	0.40
1:JB:18:VAL:O	1:JB:26:SER:HA	2.21	0.40
1:JB:318:ARG:HB2	1:JB:321:GLN:OE1	2.20	0.40
1:JB:401:VAL:HG11	1:JB:406:TYR:CD2	2.56	0.40
1:JB:474:ARG:HE	1:JB:491:PRO:HG2	1.86	0.40
1:LB:174:LEU:HD12	1:LB:174:LEU:HA	1.92	0.40
1:LB:318:ARG:HB2	1:LB:321:GLN:OE1	2.20	0.40
1:LB:690:ARG:O	1:LB:693:ILE:HB	2.21	0.40
1:LB:724:ALA:HA	1:MB:715:ALA:CB	2.50	0.40
1:MB:60:ILE:HD13	1:MB:107:LYS:HB3	2.02	0.40
1:MB:181:GLU:HA	1:MB:191:VAL:HA	2.02	0.40
1:MB:545:TRP:HA	1:MB:635:VAL:HA	2.02	0.40
1:QB:521:ASP:HB3	1:QB:545:TRP:CZ2	2.56	0.40
1:QB:690:ARG:O	1:QB:693:ILE:HB	2.21	0.40
1:QB:758:GLU:HA	1:QB:761:ARG:HB3	2.01	0.40
1:RB:169:LYS:HD2	1:RB:169:LYS:HA	1.84	0.40
1:RB:521:ASP:HB3	1:RB:545:TRP:CZ2	2.56	0.40
1:SB:474:ARG:HE	1:SB:491:PRO:HG2	1.86	0.40
1:UB:18:VAL:O	1:UB:26:SER:HA	2.21	0.40
1:WB:679:ARG:HA	1:WB:679:ARG:NE	2.35	0.40
1:XB:377:ARG:HD3	1:XB:377:ARG:HA	1.93	0.40
1:YB:219:VAL:HG22	1:YB:259:HIS:O	2.20	0.40
1:ZB:401:VAL:HG11	1:ZB:406:TYR:CD2	2.56	0.40
1:ZB:687:ARG:HA	1:ZB:690:ARG:HG3	2.02	0.40
1:AC:95:ASP:O	1:AC:97:PHE:N	2.53	0.40
1:AC:401:VAL:HG11	1:AC:406:TYR:CD2	2.56	0.40
1:A:768:MET:SD	1:C:759:LEU:CA	3.09	0.40
1:A:786:GLN:OE1	1:C:777:LEU:HD23	2.21	0.40
1:B:329:GLN:HE22	1:D:394:LYS:HE2	1.86	0.40
1:C:181:GLU:HA	1:C:191:VAL:HA	2.02	0.40
1:C:490:ASP:N	1:C:493:GLU:OE1	2.43	0.40
1:C:591:PHE:CD1	1:C:598:ILE:HD11	2.42	0.40
1:C:717:GLU:CG	1:E:707:LEU:HD22	2.51	0.40
1:C:790:VAL:HG11	1:E:784:ALA:HB3	2.03	0.40
1:D:18:VAL:O	1:D:26:SER:HA	2.21	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:95:ASP:O	1:D:97:PHE:N	2.53	0.40
1:E:401:VAL:HG11	1:E:406:TYR:CD2	2.56	0.40
1:E:690:ARG:O	1:E:693:ILE:HB	2.21	0.40
1:E:717:GLU:HG3	1:G:707:LEU:HD13	2.03	0.40
1:E:754:GLU:HG2	1:G:744:ALA:HA	2.02	0.40
1:F:18:VAL:O	1:F:26:SER:HA	2.21	0.40
1:G:95:ASP:O	1:G:97:PHE:N	2.53	0.40
1:G:169:LYS:HD2	1:G:170:GLN:H	1.85	0.40
1:G:523:PHE:HB2	1:G:543:TYR:HD2	1.87	0.40
1:H:181:GLU:HA	1:H:191:VAL:HA	2.02	0.40
1:I:169:LYS:HD2	1:I:169:LYS:HA	1.84	0.40
1:J:244:ARG:HA	1:J:244:ARG:HD3	1.85	0.40
1:J:401:VAL:HG11	1:J:406:TYR:CD2	2.56	0.40
1:J:679:ARG:HA	1:J:679:ARG:NE	2.36	0.40
1:K:138:MET:HB3	1:K:141:ASP:OD1	2.21	0.40
1:K:707:LEU:HD23	1:K:707:LEU:HA	1.74	0.40
1:L:118:ASN:HD21	1:N:180:LYS:HA	1.76	0.40
1:L:230:ARG:HH12	1:L:268:LEU:HD21	1.86	0.40
1:L:651:ARG:C	1:L:653:ALA:H	2.17	0.40
1:L:655:GLN:CG	1:N:649:ARG:HD3	2.47	0.40
1:L:790:VAL:CG2	1:N:785:GLN:HA	2.50	0.40
1:M:474:ARG:HE	1:M:491:PRO:HG2	1.86	0.40
1:M:687:ARG:HA	1:M:690:ARG:HG3	2.03	0.40
1:O:474:ARG:HE	1:O:491:PRO:HG2	1.86	0.40
1:Q:545:TRP:HA	1:Q:635:VAL:HA	2.02	0.40
1:Q:701:LYS:O	1:Q:704:LYS:HB3	2.21	0.40
1:R:230:ARG:HH12	1:R:268:LEU:HD21	1.86	0.40
1:S:18:VAL:O	1:S:26:SER:HA	2.21	0.40
1:T:20:ASP:O	1:T:23:SER:N	2.39	0.40
1:W:164:GLN:H	1:W:164:GLN:HG2	1.77	0.40
1:X:169:LYS:HD2	1:X:170:GLN:H	1.85	0.40
1:Z:698:GLU:HA	1:Z:701:LYS:HD2	2.02	0.40
1:AA:286:ASP:OD1	1:AA:297:GLY:N	2.47	0.40
1:AA:756:GLU:C	1:AA:759:LEU:HB3	2.41	0.40
1:BA:579:VAL:HG13	1:BA:599:ILE:HG13	2.03	0.40
1:DA:401:VAL:HG11	1:DA:406:TYR:CD2	2.56	0.40
1:DA:545:TRP:HA	1:DA:635:VAL:HA	2.02	0.40
1:DA:579:VAL:HG13	1:DA:599:ILE:HG13	2.03	0.40
1:DA:770:LEU:HD23	1:DA:771:ILE:N	2.36	0.40
1:EA:18:VAL:O	1:EA:26:SER:HA	2.21	0.40
1:FA:506:LYS:HD3	1:FA:506:LYS:HA	1.81	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:GA:521:ASP:HB3	1:GA:545:TRP:CZ2	2.56	0.40
1:HA:474:ARG:HE	1:HA:491:PRO:HG2	1.86	0.40
1:HA:680:LEU:HB3	1:JA:675:HIS:CE1	2.57	0.40
1:HA:690:ARG:O	1:HA:693:ILE:HB	2.21	0.40
1:IA:123:LEU:HD23	1:IA:123:LEU:HA	1.93	0.40
1:IA:758:GLU:HA	1:IA:761:ARG:HB3	2.01	0.40
1:JA:426:LEU:HB2	1:JA:460:TYR:HD1	1.87	0.40
1:JA:579:VAL:HG13	1:JA:599:ILE:HG13	2.03	0.40
1:JA:758:GLU:HA	1:JA:761:ARG:HB3	2.01	0.40
1:LA:219:VAL:HG22	1:LA:259:HIS:O	2.20	0.40
1:LA:318:ARG:HB2	1:LA:321:GLN:OE1	2.20	0.40
1:LA:521:ASP:HB3	1:LA:545:TRP:CZ2	2.56	0.40
1:LA:701:LYS:O	1:LA:704:LYS:HB3	2.21	0.40
1:MA:60:ILE:HD13	1:MA:107:LYS:HB3	2.02	0.40
1:MA:174:LEU:HD12	1:MA:174:LEU:HA	1.92	0.40
1:NA:8:ILE:HD11	1:NA:35:TYR:CD2	2.51	0.40
1:NA:401:VAL:HG11	1:NA:406:TYR:CD2	2.56	0.40
1:NA:701:LYS:O	1:NA:704:LYS:HB3	2.21	0.40
1:OA:181:GLU:HA	1:OA:191:VAL:HA	2.02	0.40
1:OA:310:LEU:HD23	1:OA:310:LEU:HA	1.92	0.40
1:OA:401:VAL:HG11	1:OA:406:TYR:CD2	2.56	0.40
1:PA:401:VAL:HG11	1:PA:406:TYR:CD2	2.56	0.40
1:PA:701:LYS:O	1:PA:704:LYS:HB3	2.21	0.40
1:RA:687:ARG:HA	1:RA:690:ARG:HG3	2.03	0.40
1:SA:698:GLU:HA	1:SA:701:LYS:HD2	2.02	0.40
1:TA:60:ILE:HD13	1:TA:107:LYS:HB3	2.02	0.40
1:TA:310:LEU:HD23	1:TA:310:LEU:HA	1.92	0.40
1:TA:679:ARG:HA	1:TA:679:ARG:NE	2.36	0.40
1:UA:60:ILE:HD13	1:UA:107:LYS:HB3	2.02	0.40
1:UA:138:MET:HB3	1:UA:141:ASP:OD1	2.21	0.40
1:WA:401:VAL:HG11	1:WA:406:TYR:CD2	2.56	0.40
1:WA:521:ASP:HB3	1:WA:545:TRP:CZ2	2.56	0.40
1:WA:723:LYS:HA	1:WA:726:ALA:HB3	2.04	0.40
1:XA:18:VAL:O	1:XA:26:SER:HA	2.21	0.40
1:XA:95:ASP:O	1:XA:97:PHE:N	2.54	0.40
1:XA:474:ARG:HE	1:XA:491:PRO:HG2	1.86	0.40
1:YA:174:LEU:HD12	1:YA:174:LEU:HA	1.92	0.40
1:YA:521:ASP:HB3	1:YA:545:TRP:CZ2	2.56	0.40
1:YA:690:ARG:O	1:YA:693:ILE:HB	2.21	0.40
1:ZA:701:LYS:O	1:ZA:704:LYS:HB3	2.21	0.40
1:ZA:706:LEU:HD11	1:BB:696:GLN:CB	2.51	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AB:426:LEU:HB2	1:AB:460:TYR:HD1	1.87	0.40
1:AB:651:ARG:C	1:AB:653:ALA:H	2.17	0.40
1:CB:377:ARG:HD3	1:CB:377:ARG:HA	1.93	0.40
1:FB:362:PRO:O	1:GB:352:GLN:HG3	2.21	0.40
1:GB:523:PHE:HB2	1:GB:543:TYR:HD2	1.87	0.40
1:GB:545:TRP:HA	1:GB:635:VAL:HA	2.02	0.40
1:GB:758:GLU:HA	1:GB:761:ARG:HB3	2.01	0.40
1:HB:169:LYS:HD2	1:HB:170:GLN:H	1.85	0.40
1:IB:690:ARG:O	1:IB:693:ILE:HB	2.21	0.40
1:IB:701:LYS:O	1:IB:704:LYS:HB3	2.21	0.40
1:IB:723:LYS:HA	1:IB:726:ALA:HB3	2.04	0.40
1:JB:224:LYS:HG3	1:KB:296:LEU:HD21	2.02	0.40
1:JB:579:VAL:HG13	1:JB:599:ILE:HG13	2.03	0.40
1:KB:237:ASP:OD1	1:KB:241:VAL:N	2.42	0.40
1:LB:521:ASP:HB3	1:LB:545:TRP:CZ2	2.56	0.40
1:LB:688:LEU:HB2	1:MB:679:ARG:NH2	2.36	0.40
1:MB:18:VAL:O	1:MB:26:SER:HA	2.21	0.40
1:MB:318:ARG:HB2	1:MB:321:GLN:OE1	2.20	0.40
1:NB:401:VAL:HG11	1:NB:406:TYR:CD2	2.56	0.40
1:OB:138:MET:HB3	1:OB:141:ASP:OD1	2.21	0.40
1:OB:149:GLY:HA2	1:PB:138:MET:SD	2.61	0.40
1:QB:164:GLN:H	1:QB:164:GLN:HG2	1.77	0.40
1:RB:654:LEU:HD23	1:RB:654:LEU:HA	1.84	0.40
1:SB:169:LYS:HD2	1:SB:170:GLN:H	1.85	0.40
1:UB:60:ILE:HD13	1:UB:107:LYS:HB3	2.02	0.40
1:UB:521:ASP:HB3	1:UB:545:TRP:CZ2	2.56	0.40
1:UB:579:VAL:HG13	1:UB:599:ILE:HG13	2.03	0.40
1:UB:679:ARG:HA	1:UB:679:ARG:NE	2.35	0.40
1:UB:690:ARG:O	1:UB:693:ILE:HB	2.21	0.40
1:VB:230:ARG:HH12	1:VB:268:LEU:HD21	1.86	0.40
1:VB:377:ARG:HD3	1:VB:377:ARG:HA	1.93	0.40
1:VB:750:ALA:O	1:WB:744:ALA:HB1	2.22	0.40
1:XB:521:ASP:HB3	1:XB:545:TRP:CZ2	2.56	0.40
1:XB:679:ARG:HA	1:XB:679:ARG:NE	2.35	0.40
1:YB:394:LYS:HE3	1:YB:394:LYS:HB2	1.87	0.40
1:YB:579:VAL:HG13	1:YB:599:ILE:HG13	2.03	0.40
1:YB:709:LEU:HA	1:YB:709:LEU:HD23	1.82	0.40
1:ZB:18:VAL:O	1:ZB:26:SER:HA	2.21	0.40
1:ZB:181:GLU:HA	1:ZB:191:VAL:HA	2.02	0.40
1:ZB:587:THR:HG1	1:ZB:588:PHE:N	2.19	0.40
1:AC:16:ILE:HA	1:AC:45:PHE:CE1	2.55	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AC:770:LEU:HD23	1:AC:771:ILE:N	2.35	0.40
1:A:521:ASP:HB3	1:A:545:TRP:CZ2	2.56	0.40
1:B:219:VAL:HG22	1:B:259:HIS:O	2.20	0.40
1:B:500:LEU:HD23	1:B:500:LEU:HA	1.90	0.40
1:C:474:ARG:HE	1:C:491:PRO:HG2	1.86	0.40
1:C:723:LYS:HA	1:C:726:ALA:HB3	2.04	0.40
1:C:779:LEU:CD1	1:E:770:LEU:CB	2.69	0.40
1:D:88:GLN:O	1:D:155:LYS:HE2	2.22	0.40
1:D:542:ALA:HB2	1:F:573:LYS:CD	2.51	0.40
1:E:18:VAL:O	1:E:26:SER:HA	2.21	0.40
1:F:474:ARG:HE	1:F:491:PRO:HG2	1.86	0.40
1:F:500:LEU:HD23	1:F:500:LEU:HA	1.90	0.40
1:F:687:ARG:HA	1:F:690:ARG:HG3	2.02	0.40
1:F:701:LYS:O	1:F:704:LYS:HB3	2.21	0.40
1:H:690:ARG:O	1:H:693:ILE:HB	2.21	0.40
1:I:474:ARG:HE	1:I:491:PRO:HG2	1.86	0.40
1:I:533:ASP:CG	1:I:587:THR:HG1	2.17	0.40
1:I:579:VAL:HG13	1:I:599:ILE:HG13	2.03	0.40
1:J:310:LEU:HD23	1:J:310:LEU:HA	1.92	0.40
1:J:394:LYS:HE3	1:J:394:LYS:HB2	1.87	0.40
1:J:690:ARG:O	1:J:693:ILE:HB	2.21	0.40
1:K:474:ARG:HE	1:K:491:PRO:HG2	1.86	0.40
1:K:523:PHE:HB2	1:K:543:TYR:HD2	1.87	0.40
1:K:579:VAL:HG13	1:K:599:ILE:HG13	2.03	0.40
1:L:723:LYS:HA	1:L:726:ALA:HB3	2.04	0.40
1:M:60:ILE:HD13	1:M:107:LYS:HB3	2.02	0.40
1:M:426:LEU:HB2	1:M:460:TYR:HD1	1.87	0.40
1:M:679:ARG:HA	1:M:679:ARG:NE	2.35	0.40
1:N:474:ARG:HE	1:N:491:PRO:HG2	1.86	0.40
1:O:742:LEU:HD12	1:O:742:LEU:HA	1.86	0.40
1:P:138:MET:HB3	1:P:141:ASP:OD1	2.21	0.40
1:P:426:LEU:HB2	1:P:460:TYR:HD1	1.87	0.40
1:P:679:ARG:HA	1:P:679:ARG:NE	2.35	0.40
1:Q:8:ILE:HD11	1:Q:35:TYR:CD2	2.51	0.40
1:Q:95:ASP:O	1:Q:97:PHE:N	2.53	0.40
1:Q:521:ASP:HB3	1:Q:545:TRP:CZ2	2.56	0.40
1:Q:723:LYS:HA	1:Q:726:ALA:HB3	2.04	0.40
1:R:523:PHE:HB2	1:R:543:TYR:HD2	1.87	0.40
1:T:88:GLN:O	1:T:155:LYS:HE2	2.22	0.40
1:T:181:GLU:HA	1:T:191:VAL:HA	2.02	0.40
1:T:426:LEU:HB2	1:T:460:TYR:HD1	1.87	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:T:742:LEU:HD12	1:T:742:LEU:HA	1.86	0.40
1:X:138:MET:HB3	1:X:141:ASP:OD1	2.21	0.40
1:X:230:ARG:HH12	1:X:268:LEU:HD21	1.86	0.40
1:X:770:LEU:HD23	1:X:771:ILE:N	2.36	0.40
1:Y:18:VAL:O	1:Y:26:SER:HA	2.21	0.40
1:Z:814:GLY:HA2	1:Z:815:PRO:HD3	1.89	0.40
1:AA:318:ARG:HB2	1:AA:321:GLN:OE1	2.20	0.40
1:AA:545:TRP:HA	1:AA:635:VAL:HA	2.02	0.40
1:BA:60:ILE:HD13	1:BA:107:LYS:HB3	2.02	0.40
1:BA:545:TRP:HA	1:BA:635:VAL:HA	2.02	0.40
1:BA:701:LYS:O	1:BA:704:LYS:HB3	2.21	0.40
1:CA:18:VAL:O	1:CA:26:SER:HA	2.21	0.40
1:DA:138:MET:HB3	1:DA:141:ASP:OD1	2.21	0.40
1:DA:527:ILE:HD13	1:DA:576:ALA:HA	2.04	0.40
1:DA:690:ARG:O	1:DA:693:ILE:HB	2.21	0.40
1:EA:523:PHE:HB2	1:EA:543:TYR:HD2	1.87	0.40
1:GA:232:ARG:CZ	1:GA:266:GLU:HB3	2.52	0.40
1:GA:523:PHE:HB2	1:GA:543:TYR:HD2	1.87	0.40
1:HA:756:GLU:C	1:HA:759:LEU:HB3	2.41	0.40
1:IA:706:LEU:CD2	1:KA:697:SER:OG	2.67	0.40
1:JA:138:MET:HB3	1:JA:141:ASP:OD1	2.21	0.40
1:KA:181:GLU:HA	1:KA:191:VAL:HA	2.02	0.40
1:LA:88:GLN:O	1:LA:155:LYS:HE2	2.22	0.40
1:LA:181:GLU:HA	1:LA:191:VAL:HA	2.02	0.40
1:MA:138:MET:HB3	1:MA:141:ASP:OD1	2.21	0.40
1:NA:174:LEU:HD12	1:NA:174:LEU:HA	1.92	0.40
1:NA:230:ARG:HH12	1:NA:268:LEU:HD21	1.86	0.40
1:OA:174:LEU:HD12	1:OA:174:LEU:HA	1.92	0.40
1:OA:474:ARG:HE	1:OA:491:PRO:HG2	1.86	0.40
1:OA:723:LYS:HA	1:OA:726:ALA:HB3	2.04	0.40
1:PA:18:VAL:O	1:PA:26:SER:HA	2.21	0.40
1:PA:639:ASP:HB3	1:RA:577:SER:CB	2.52	0.40
1:PA:679:ARG:HA	1:PA:679:ARG:NE	2.35	0.40
1:PA:770:LEU:HD23	1:PA:771:ILE:N	2.35	0.40
1:QA:138:MET:HB3	1:QA:141:ASP:OD1	2.21	0.40
1:QA:426:LEU:HB2	1:QA:460:TYR:HD1	1.87	0.40
1:SA:136:LYS:HD2	1:SA:136:LYS:HA	1.86	0.40
1:SA:230:ARG:HH12	1:SA:268:LEU:HD21	1.86	0.40
1:TA:18:VAL:O	1:TA:26:SER:HA	2.21	0.40
1:TA:123:LEU:HD23	1:TA:123:LEU:HA	1.93	0.40
1:TA:236:LYS:HE3	1:TA:236:LYS:HB2	1.77	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:TA:687:ARG:HA	1:TA:690:ARG:HG3	2.02	0.40
1:TA:720:GLY:HA3	1:VA:711:ALA:CB	2.42	0.40
1:UA:88:GLN:O	1:UA:155:LYS:HE2	2.22	0.40
1:UA:579:VAL:HG13	1:UA:599:ILE:HG13	2.03	0.40
1:UA:690:ARG:O	1:UA:693:ILE:HB	2.21	0.40
1:VA:244:ARG:HD3	1:VA:244:ARG:HA	1.86	0.40
1:VA:394:LYS:HE3	1:VA:394:LYS:HB2	1.87	0.40
1:VA:756:GLU:C	1:VA:759:LEU:HB3	2.41	0.40
1:YA:136:LYS:HD2	1:YA:136:LYS:HA	1.86	0.40
1:ZA:474:ARG:HE	1:ZA:491:PRO:HG2	1.86	0.40
1:ZA:523:PHE:HB2	1:ZA:543:TYR:HD2	1.87	0.40
1:BB:236:LYS:HE3	1:BB:236:LYS:HB2	1.77	0.40
1:BB:756:GLU:C	1:BB:759:LEU:HB3	2.41	0.40
1:CB:545:TRP:HA	1:CB:635:VAL:HA	2.02	0.40
1:DB:523:PHE:HB2	1:DB:543:TYR:HD2	1.87	0.40
1:DB:579:VAL:HG13	1:DB:599:ILE:HG13	2.03	0.40
1:DB:691:GLN:OE1	1:EB:679:ARG:NE	2.54	0.40
1:EB:138:MET:HB3	1:EB:141:ASP:OD1	2.21	0.40
1:EB:474:ARG:HE	1:EB:491:PRO:HG2	1.86	0.40
1:EB:591:PHE:CD1	1:EB:598:ILE:HD11	2.42	0.40
1:FB:579:VAL:HG13	1:FB:599:ILE:HG13	2.03	0.40
1:GB:20:ASP:O	1:GB:23:SER:N	2.39	0.40
1:GB:181:GLU:HA	1:GB:191:VAL:HA	2.02	0.40
1:HB:164:GLN:H	1:HB:164:GLN:HG2	1.77	0.40
1:HB:687:ARG:HA	1:HB:690:ARG:HG3	2.02	0.40
1:IB:18:VAL:O	1:IB:26:SER:HA	2.21	0.40
1:IB:679:ARG:HA	1:IB:679:ARG:NE	2.35	0.40
1:JB:490:ASP:N	1:JB:493:GLU:OE1	2.43	0.40
1:KB:138:MET:HB3	1:KB:141:ASP:OD1	2.21	0.40
1:KB:219:VAL:HG22	1:KB:259:HIS:O	2.20	0.40
1:KB:380:ILE:HG21	1:KB:388:ILE:HG21	2.04	0.40
1:KB:521:ASP:HB3	1:KB:545:TRP:CZ2	2.56	0.40
1:LB:756:GLU:C	1:LB:759:LEU:HB3	2.41	0.40
1:MB:401:VAL:HG11	1:MB:406:TYR:CD2	2.56	0.40
1:MB:521:ASP:HB3	1:MB:545:TRP:CZ2	2.56	0.40
1:MB:523:PHE:HB2	1:MB:543:TYR:HD2	1.87	0.40
1:OB:363:LEU:CA	1:PB:353:ALA:CB	2.93	0.40
1:OB:687:ARG:HA	1:OB:690:ARG:HG3	2.02	0.40
1:PB:579:VAL:HG13	1:PB:599:ILE:HG13	2.03	0.40
1:PB:690:ARG:O	1:PB:693:ILE:HB	2.21	0.40
1:QB:236:LYS:HE3	1:QB:236:LYS:HB2	1.77	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:RB:18:VAL:O	1:RB:26:SER:HA	2.21	0.40
1:RB:88:GLN:O	1:RB:155:LYS:HE2	2.22	0.40
1:RB:401:VAL:HG11	1:RB:406:TYR:CD2	2.56	0.40
1:TB:232:ARG:CZ	1:TB:266:GLU:HB3	2.52	0.40
1:TB:701:LYS:O	1:TB:704:LYS:HB3	2.21	0.40
1:UB:401:VAL:HG11	1:UB:406:TYR:CD2	2.56	0.40
1:UB:591:PHE:CD1	1:UB:598:ILE:HD11	2.42	0.40
1:VB:138:MET:HB3	1:VB:141:ASP:OD1	2.21	0.40
1:VB:591:PHE:CD1	1:VB:598:ILE:HD11	2.43	0.40
1:VB:687:ARG:HA	1:VB:690:ARG:HG3	2.02	0.40
1:WB:60:ILE:HD13	1:WB:107:LYS:HB3	2.02	0.40
1:XB:461:ARG:NH1	1:YB:494:GLN:HG3	2.37	0.40
1:XB:579:VAL:HG13	1:XB:599:ILE:HG13	2.03	0.40
1:YB:310:LEU:HD23	1:YB:310:LEU:HA	1.92	0.40
1:ZB:735:ILE:HB	1:AC:726:ALA:HA	1.99	0.40
1:AC:426:LEU:HB2	1:AC:460:TYR:HD1	1.87	0.40
1:AC:527:ILE:HD13	1:AC:576:ALA:HA	2.04	0.40
1:A:232:ARG:CZ	1:A:266:GLU:HB3	2.52	0.40
1:A:723:LYS:HZ2	1:C:715:ALA:HB1	1.86	0.40
1:B:380:ILE:HG21	1:B:388:ILE:HG21	2.04	0.40
1:B:523:PHE:HB2	1:B:543:TYR:HD2	1.87	0.40
1:B:723:LYS:HA	1:B:726:ALA:HB3	2.04	0.40
1:C:579:VAL:HG13	1:C:599:ILE:HG13	2.03	0.40
1:D:230:ARG:HH12	1:D:268:LEU:HD21	1.86	0.40
1:D:579:VAL:HG13	1:D:599:ILE:HG13	2.03	0.40
1:E:426:LEU:HB2	1:E:460:TYR:HD1	1.87	0.40
1:G:179:ARG:NH1	1:G:180:LYS:HB3	2.37	0.40
1:H:18:VAL:O	1:H:26:SER:HA	2.21	0.40
1:K:179:ARG:NH1	1:K:180:LYS:HB3	2.37	0.40
1:K:520:PRO:HA	1:K:545:TRP:O	2.22	0.40
1:K:521:ASP:HB3	1:K:545:TRP:CZ2	2.56	0.40
1:K:690:ARG:O	1:K:693:ILE:HB	2.21	0.40
1:K:814:GLY:HA2	1:K:815:PRO:HD3	1.89	0.40
1:L:18:VAL:O	1:L:26:SER:HA	2.21	0.40
1:L:377:ARG:HD3	1:L:377:ARG:HA	1.93	0.40
1:M:181:GLU:HA	1:M:191:VAL:HA	2.02	0.40
1:M:230:ARG:HH12	1:M:268:LEU:HD21	1.86	0.40
1:M:707:LEU:HD23	1:M:707:LEU:HA	1.74	0.40
1:O:232:ARG:CZ	1:O:266:GLU:HB3	2.52	0.40
1:O:545:TRP:HA	1:O:635:VAL:HA	2.02	0.40
1:P:579:VAL:HG13	1:P:599:ILE:HG13	2.03	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:P:592:HIS:CD2	1:R:534:HIS:NE2	2.90	0.40
1:Q:380:ILE:HG21	1:Q:388:ILE:HG21	2.04	0.40
1:Q:520:PRO:HA	1:Q:545:TRP:O	2.22	0.40
1:R:639:ASP:HB3	1:T:577:SER:HB3	2.04	0.40
1:S:60:ILE:HD13	1:S:107:LYS:HB3	2.02	0.40
1:S:523:PHE:HB2	1:S:543:TYR:HD2	1.87	0.40
1:T:521:ASP:HB3	1:T:545:TRP:CZ2	2.56	0.40
1:T:701:LYS:O	1:T:704:LYS:HB3	2.21	0.40
1:V:679:ARG:HA	1:V:679:ARG:NE	2.35	0.40
1:W:394:LYS:HE3	1:W:394:LYS:HB2	1.87	0.40
1:W:520:PRO:HA	1:W:545:TRP:O	2.22	0.40
1:W:523:PHE:HB2	1:W:543:TYR:HD2	1.87	0.40
1:X:88:GLN:O	1:X:155:LYS:HE2	2.22	0.40
1:X:95:ASP:O	1:X:97:PHE:N	2.54	0.40
1:X:232:ARG:CZ	1:X:266:GLU:HB3	2.52	0.40
1:Y:138:MET:HB3	1:Y:141:ASP:OD1	2.21	0.40
1:Y:701:LYS:O	1:Y:704:LYS:HB3	2.21	0.40
1:Y:723:LYS:HA	1:Y:726:ALA:HB3	2.04	0.40
1:Z:474:ARG:HE	1:Z:491:PRO:HG2	1.86	0.40
1:Z:679:ARG:HA	1:Z:679:ARG:NE	2.35	0.40
1:AA:18:VAL:O	1:AA:26:SER:HA	2.21	0.40
1:AA:579:VAL:HG13	1:AA:599:ILE:HG13	2.03	0.40
1:BA:95:ASP:O	1:BA:97:PHE:N	2.53	0.40
1:BA:401:VAL:HG11	1:BA:406:TYR:CD2	2.56	0.40
1:CA:523:PHE:HB2	1:CA:543:TYR:HD2	1.87	0.40
1:DA:88:GLN:O	1:DA:155:LYS:HE2	2.22	0.40
1:EA:244:ARG:HD3	1:EA:244:ARG:HA	1.85	0.40
1:EA:701:LYS:O	1:EA:704:LYS:HB3	2.21	0.40
1:FA:123:LEU:HD23	1:FA:123:LEU:HA	1.93	0.40
1:FA:523:PHE:HB2	1:FA:543:TYR:HD2	1.87	0.40
1:GA:138:MET:HB3	1:GA:141:ASP:OD1	2.21	0.40
1:GA:401:VAL:HG11	1:GA:406:TYR:CD2	2.56	0.40
1:GA:701:LYS:O	1:GA:704:LYS:HB3	2.21	0.40
1:HA:95:ASP:O	1:HA:97:PHE:N	2.54	0.40
1:HA:257:GLU:HB2	1:JA:245:THR:OG1	2.22	0.40
1:IA:88:GLN:O	1:IA:155:LYS:HE2	2.22	0.40
1:IA:95:ASP:O	1:IA:97:PHE:N	2.53	0.40
1:IA:171:ASN:HD21	1:KA:233:GLN:HB3	1.86	0.40
1:IA:318:ARG:HB2	1:IA:321:GLN:OE1	2.20	0.40
1:IA:521:ASP:HB3	1:IA:545:TRP:CZ2	2.56	0.40
1:IA:687:ARG:HA	1:IA:690:ARG:HG3	2.02	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:IA:690:ARG:O	1:IA:693:ILE:HB	2.21	0.40
1:JA:230:ARG:HH12	1:JA:268:LEU:HD21	1.86	0.40
1:KA:179:ARG:NH1	1:KA:180:LYS:HB3	2.37	0.40
1:KA:244:ARG:HA	1:KA:244:ARG:HD3	1.85	0.40
1:KA:579:VAL:HG13	1:KA:599:ILE:HG13	2.03	0.40
1:LA:690:ARG:O	1:LA:693:ILE:HB	2.22	0.40
1:LA:723:LYS:HA	1:LA:726:ALA:HB3	2.04	0.40
1:MA:95:ASP:O	1:MA:97:PHE:N	2.53	0.40
1:MA:506:LYS:HA	1:MA:506:LYS:HD3	1.81	0.40
1:MA:698:GLU:HA	1:MA:701:LYS:HD2	2.02	0.40
1:NA:179:ARG:NH1	1:NA:180:LYS:HB3	2.37	0.40
1:NA:521:ASP:HB3	1:NA:545:TRP:CZ2	2.56	0.40
1:NA:527:ILE:HD13	1:NA:576:ALA:HA	2.04	0.40
1:OA:521:ASP:HB3	1:OA:545:TRP:CZ2	2.56	0.40
1:OA:690:ARG:O	1:OA:693:ILE:HB	2.21	0.40
1:PA:20:ASP:OD2	1:PA:23:SER:OG	2.39	0.40
1:QA:723:LYS:HA	1:QA:726:ALA:HB3	2.04	0.40
1:QA:814:GLY:HA2	1:QA:815:PRO:HD3	1.89	0.40
1:RA:88:GLN:O	1:RA:155:LYS:HE2	2.22	0.40
1:TA:138:MET:HB3	1:TA:141:ASP:OD1	2.21	0.40
1:TA:169:LYS:HD2	1:TA:170:GLN:H	1.85	0.40
1:TA:523:PHE:HB2	1:TA:543:TYR:HD2	1.87	0.40
1:TA:701:LYS:O	1:TA:704:LYS:HB3	2.21	0.40
1:UA:232:ARG:CZ	1:UA:266:GLU:HB3	2.52	0.40
1:UA:401:VAL:HG11	1:UA:406:TYR:CD2	2.56	0.40
1:UA:587:THR:HG1	1:UA:588:PHE:H	1.69	0.40
1:UA:723:LYS:HA	1:UA:726:ALA:HB3	2.04	0.40
1:WA:60:ILE:HD13	1:WA:107:LYS:HB3	2.02	0.40
1:XA:136:LYS:HD2	1:XA:136:LYS:HA	1.86	0.40
1:XA:232:ARG:CZ	1:XA:266:GLU:HB3	2.52	0.40
1:XA:426:LEU:HB2	1:XA:460:TYR:HD1	1.87	0.40
1:XA:706:LEU:HD21	1:ZA:693:ILE:HG23	2.03	0.40
1:YA:64:PRO:HD2	1:YA:84:ARG:O	2.20	0.40
1:YA:545:TRP:HA	1:YA:635:VAL:HA	2.02	0.40
1:ZA:179:ARG:NH1	1:ZA:180:LYS:HB3	2.37	0.40
1:ZA:232:ARG:CZ	1:ZA:266:GLU:HB3	2.52	0.40
1:ZA:521:ASP:HB3	1:ZA:545:TRP:CZ2	2.56	0.40
1:AB:579:VAL:HG13	1:AB:599:ILE:HG13	2.03	0.40
1:BB:426:LEU:HB2	1:BB:460:TYR:HD1	1.87	0.40
1:BB:520:PRO:HA	1:BB:545:TRP:O	2.22	0.40
1:BB:533:ASP:CG	1:BB:587:THR:HG1	2.17	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CB:18:VAL:O	1:CB:26:SER:HA	2.21	0.40
1:DB:174:LEU:HD12	1:DB:174:LEU:HA	1.92	0.40
1:DB:339:PRO:HD3	1:DB:353:ALA:HB2	2.02	0.40
1:DB:717:GLU:CB	1:EB:707:LEU:HB3	2.51	0.40
1:EB:756:GLU:C	1:EB:759:LEU:HB3	2.41	0.40
1:FB:138:MET:HB3	1:FB:141:ASP:OD1	2.21	0.40
1:FB:232:ARG:CZ	1:FB:266:GLU:HB3	2.52	0.40
1:GB:179:ARG:NH1	1:GB:180:LYS:HB3	2.37	0.40
1:GB:244:ARG:HD3	1:GB:244:ARG:HA	1.85	0.40
1:GB:520:PRO:HA	1:GB:545:TRP:O	2.22	0.40
1:HB:123:LEU:HD23	1:HB:123:LEU:HA	1.93	0.40
1:HB:138:MET:HB3	1:HB:141:ASP:OD1	2.21	0.40
1:IB:60:ILE:HD13	1:IB:107:LYS:HB3	2.02	0.40
1:IB:181:GLU:HA	1:IB:191:VAL:HA	2.02	0.40
1:KB:236:LYS:HB2	1:KB:236:LYS:HE3	1.77	0.40
1:KB:679:ARG:HA	1:KB:679:ARG:NE	2.35	0.40
1:KB:687:ARG:HA	1:KB:690:ARG:HG3	2.02	0.40
1:LB:687:ARG:HA	1:LB:690:ARG:HG3	2.02	0.40
1:NB:232:ARG:CZ	1:NB:266:GLU:HB3	2.52	0.40
1:NB:380:ILE:HG21	1:NB:388:ILE:HG21	2.04	0.40
1:NB:506:LYS:HD3	1:NB:506:LYS:HA	1.82	0.40
1:NB:523:PHE:HB2	1:NB:543:TYR:HD2	1.87	0.40
1:OB:202:GLY:HA2	1:PB:192:THR:CA	2.52	0.40
1:OB:224:LYS:NZ	1:PB:248:GLU:OE2	2.53	0.40
1:OB:232:ARG:CZ	1:OB:266:GLU:HB3	2.52	0.40
1:OB:377:ARG:HD3	1:OB:377:ARG:HA	1.93	0.40
1:PB:701:LYS:O	1:PB:704:LYS:HB3	2.21	0.40
1:QB:138:MET:HB3	1:QB:141:ASP:OD1	2.21	0.40
1:QB:179:ARG:NH1	1:QB:180:LYS:HB3	2.37	0.40
1:QB:426:LEU:HB2	1:QB:460:TYR:HD1	1.87	0.40
1:QB:545:TRP:HA	1:QB:635:VAL:HA	2.02	0.40
1:SB:181:GLU:HA	1:SB:191:VAL:HA	2.02	0.40
1:SB:520:PRO:HA	1:SB:545:TRP:O	2.22	0.40
1:SB:701:LYS:O	1:SB:704:LYS:HB3	2.21	0.40
1:TB:666:THR:HG21	1:UB:660:LEU:CD1	2.45	0.40
1:TB:690:ARG:O	1:TB:693:ILE:HB	2.21	0.40
1:WB:95:ASP:O	1:WB:97:PHE:N	2.54	0.40
1:WB:520:PRO:HA	1:WB:545:TRP:O	2.22	0.40
1:WB:545:TRP:HA	1:WB:635:VAL:HA	2.02	0.40
1:XB:401:VAL:HG11	1:XB:406:TYR:CD2	2.56	0.40
1:XB:814:GLY:HA2	1:XB:815:PRO:HD3	1.89	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:YB:723:LYS:HA	1:YB:726:ALA:HB3	2.04	0.40
1:ZB:169:LYS:HD2	1:ZB:170:GLN:H	1.85	0.40
1:ZB:521:ASP:HB3	1:ZB:545:TRP:CZ2	2.56	0.40
1:ZB:521:ASP:OD1	1:ZB:522:PHE:N	2.44	0.40
1:AC:230:ARG:HH12	1:AC:268:LEU:HD21	1.86	0.40
1:AC:521:ASP:HB3	1:AC:545:TRP:CZ2	2.56	0.40
1:A:680:LEU:HD13	1:C:672:ALA:HB2	2.04	0.40
1:A:707:LEU:HB3	1:NB:717:GLU:HA	2.03	0.40
1:A:750:ALA:CB	1:C:740:SER:C	2.76	0.40
1:A:770:LEU:HD23	1:A:771:ILE:N	2.36	0.40
1:B:88:GLN:O	1:B:155:LYS:HE2	2.22	0.40
1:B:169:LYS:HD2	1:B:169:LYS:HA	1.84	0.40
1:D:523:PHE:HB2	1:D:543:TYR:HD2	1.87	0.40
1:D:654:LEU:HD23	1:D:654:LEU:HA	1.84	0.40
1:E:230:ARG:HH12	1:E:268:LEU:HD21	1.86	0.40
1:E:520:PRO:HA	1:E:545:TRP:O	2.22	0.40
1:E:523:PHE:HB2	1:E:543:TYR:HD2	1.87	0.40
1:F:230:ARG:HH12	1:F:268:LEU:HD21	1.86	0.40
1:F:521:ASP:HB3	1:F:545:TRP:CZ2	2.56	0.40
1:F:698:GLU:HA	1:F:701:LYS:HD2	2.02	0.40
1:F:723:LYS:HA	1:F:726:ALA:HB3	2.04	0.40
1:H:169:LYS:HE3	1:J:233:GLN:OE1	2.22	0.40
1:H:338:GLN:HG3	1:H:339:PRO:HD2	2.04	0.40
1:H:490:ASP:N	1:H:493:GLU:OE1	2.42	0.40
1:H:500:LEU:HD23	1:H:500:LEU:HA	1.91	0.40
1:H:527:ILE:HD13	1:H:576:ALA:HA	2.04	0.40
1:H:756:GLU:C	1:H:759:LEU:HB3	2.41	0.40
1:I:179:ARG:NH1	1:I:180:LYS:HB3	2.37	0.40
1:I:230:ARG:HH12	1:I:268:LEU:HD21	1.86	0.40
1:I:359:ILE:HD12	1:I:359:ILE:HA	1.94	0.40
1:I:701:LYS:O	1:I:704:LYS:HB3	2.21	0.40
1:J:88:GLN:O	1:J:155:LYS:HE2	2.22	0.40
1:J:520:PRO:HA	1:J:545:TRP:O	2.22	0.40
1:K:449:SER:OG	1:K:450:ALA:N	2.55	0.40
1:L:687:ARG:HA	1:L:690:ARG:HG3	2.02	0.40
1:L:701:LYS:O	1:L:704:LYS:HB3	2.21	0.40
1:M:521:ASP:HB3	1:M:545:TRP:CZ2	2.56	0.40
1:M:579:VAL:HG13	1:M:599:ILE:HG13	2.03	0.40
1:M:690:ARG:O	1:M:693:ILE:HB	2.21	0.40
1:N:230:ARG:HH12	1:N:268:LEU:HD21	1.86	0.40
1:N:426:LEU:HB2	1:N:460:TYR:HD1	1.87	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:523:PHE:HB2	1:N:543:TYR:HD2	1.87	0.40
1:O:380:ILE:HG21	1:O:388:ILE:HG21	2.04	0.40
1:Q:88:GLN:O	1:Q:155:LYS:HE2	2.22	0.40
1:Q:232:ARG:CZ	1:Q:266:GLU:HB3	2.52	0.40
1:R:521:ASP:HB3	1:R:545:TRP:CZ2	2.56	0.40
1:S:520:PRO:HA	1:S:545:TRP:O	2.22	0.40
1:S:687:ARG:HA	1:S:690:ARG:HG3	2.02	0.40
1:T:18:VAL:O	1:T:26:SER:HA	2.21	0.40
1:T:230:ARG:HH12	1:T:268:LEU:HD21	1.86	0.40
1:T:232:ARG:CZ	1:T:266:GLU:HB3	2.52	0.40
1:T:474:ARG:HE	1:T:491:PRO:HG2	1.86	0.40
1:T:520:PRO:HA	1:T:545:TRP:O	2.22	0.40
1:T:523:PHE:HB2	1:T:543:TYR:HD2	1.87	0.40
1:T:579:VAL:HG13	1:T:599:ILE:HG13	2.03	0.40
1:V:426:LEU:HB2	1:V:460:TYR:HD1	1.87	0.40
1:V:756:GLU:C	1:V:759:LEU:HB3	2.41	0.40
1:W:232:ARG:CZ	1:W:266:GLU:HB3	2.52	0.40
1:W:679:ARG:HA	1:W:679:ARG:NE	2.35	0.40
1:X:18:VAL:O	1:X:26:SER:HA	2.21	0.40
1:X:179:ARG:NH1	1:X:180:LYS:HB3	2.37	0.40
1:X:426:LEU:HB2	1:X:460:TYR:HD1	1.87	0.40
1:Z:651:ARG:C	1:Z:653:ALA:H	2.17	0.40
1:AA:179:ARG:NH1	1:AA:180:LYS:HB3	2.37	0.40
1:AA:474:ARG:HE	1:AA:491:PRO:HG2	1.86	0.40
1:BA:179:ARG:NH1	1:BA:180:LYS:HB3	2.37	0.40
1:BA:232:ARG:CZ	1:BA:266:GLU:HB3	2.52	0.40
1:BA:426:LEU:HB2	1:BA:460:TYR:HD1	1.87	0.40
1:CA:88:GLN:O	1:CA:155:LYS:HE2	2.22	0.40
1:CA:591:PHE:CD1	1:CA:598:ILE:HD11	2.42	0.40
1:DA:520:PRO:HA	1:DA:545:TRP:O	2.22	0.40
1:DA:687:ARG:HA	1:DA:690:ARG:HG3	2.02	0.40
1:FA:18:VAL:O	1:FA:26:SER:HA	2.21	0.40
1:FA:174:LEU:HD12	1:FA:174:LEU:HA	1.92	0.40
1:FA:723:LYS:HA	1:FA:726:ALA:HB3	2.04	0.40
1:GA:179:ARG:NH1	1:GA:180:LYS:HB3	2.37	0.40
1:HA:286:ASP:OD1	1:HA:297:GLY:N	2.47	0.40
1:HA:388:ILE:HG13	1:HA:390:VAL:HG23	2.04	0.40
1:IA:232:ARG:CZ	1:IA:266:GLU:HB3	2.52	0.40
1:IA:426:LEU:HB2	1:IA:460:TYR:HD1	1.87	0.40
1:IA:720:GLY:HA3	1:KA:711:ALA:HB1	2.03	0.40
1:KA:169:LYS:HD2	1:KA:169:LYS:HA	1.84	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:LA:527:ILE:HD13	1:LA:576:ALA:HA	2.04	0.40
1:LA:698:GLU:HA	1:LA:701:LYS:HD2	2.02	0.40
1:MA:20:ASP:O	1:MA:23:SER:N	2.39	0.40
1:MA:299:LYS:HE2	1:MA:299:LYS:HB3	1.92	0.40
1:MA:388:ILE:HG13	1:MA:390:VAL:HG23	2.04	0.40
1:MA:394:LYS:HE3	1:MA:394:LYS:HB2	1.87	0.40
1:NA:181:GLU:HA	1:NA:191:VAL:HA	2.02	0.40
1:NA:723:LYS:HA	1:NA:726:ALA:HB3	2.04	0.40
1:NA:756:GLU:C	1:NA:759:LEU:HB3	2.41	0.40
1:OA:426:LEU:HB2	1:OA:460:TYR:HD1	1.87	0.40
1:PA:179:ARG:NH1	1:PA:180:LYS:HB3	2.37	0.40
1:PA:232:ARG:CZ	1:PA:266:GLU:HB3	2.52	0.40
1:PA:521:ASP:HB3	1:PA:545:TRP:CZ2	2.56	0.40
1:PA:523:PHE:HB2	1:PA:543:TYR:HD2	1.87	0.40
1:PA:527:ILE:HD13	1:PA:576:ALA:HA	2.04	0.40
1:PA:756:GLU:C	1:PA:759:LEU:HB3	2.41	0.40
1:RA:527:ILE:HD13	1:RA:576:ALA:HA	2.04	0.40
1:SA:88:GLN:O	1:SA:155:LYS:HE2	2.22	0.40
1:SA:679:ARG:HA	1:SA:679:ARG:NE	2.35	0.40
1:TA:95:ASP:O	1:TA:97:PHE:N	2.54	0.40
1:TA:232:ARG:CZ	1:TA:266:GLU:HB3	2.52	0.40
1:TA:527:ILE:HD13	1:TA:576:ALA:HA	2.04	0.40
1:TA:654:LEU:HA	1:TA:654:LEU:HD23	1.84	0.40
1:UA:164:GLN:H	1:UA:164:GLN:HG2	1.77	0.40
1:VA:338:GLN:HG3	1:VA:339:PRO:HD2	2.04	0.40
1:XA:230:ARG:HH12	1:XA:268:LEU:HD21	1.86	0.40
1:XA:380:ILE:HG21	1:XA:388:ILE:HG21	2.04	0.40
1:XA:651:ARG:C	1:XA:653:ALA:H	2.17	0.40
1:YA:88:GLN:O	1:YA:155:LYS:HE2	2.22	0.40
1:YA:723:LYS:HA	1:YA:726:ALA:HB3	2.04	0.40
1:ZA:181:GLU:HA	1:ZA:191:VAL:HA	2.02	0.40
1:ZA:380:ILE:HG21	1:ZA:388:ILE:HG21	2.04	0.40
1:AB:88:GLN:O	1:AB:155:LYS:HE2	2.22	0.40
1:BB:179:ARG:NH1	1:BB:180:LYS:HB3	2.37	0.40
1:CB:88:GLN:O	1:CB:155:LYS:HE2	2.22	0.40
1:CB:527:ILE:HD13	1:CB:576:ALA:HA	2.04	0.40
1:DB:88:GLN:O	1:DB:155:LYS:HE2	2.22	0.40
1:EB:230:ARG:HH12	1:EB:268:LEU:HD21	1.86	0.40
1:EB:380:ILE:HG21	1:EB:388:ILE:HG21	2.04	0.40
1:EB:687:ARG:HA	1:EB:690:ARG:HG3	2.02	0.40
1:FB:401:VAL:HG11	1:FB:406:TYR:CD2	2.56	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:FB:506:LYS:HD3	1:FB:506:LYS:HA	1.81	0.40
1:GB:88:GLN:O	1:GB:155:LYS:HE2	2.22	0.40
1:GB:426:LEU:HB2	1:GB:460:TYR:HD1	1.87	0.40
1:HB:181:GLU:HA	1:HB:191:VAL:HA	2.02	0.40
1:HB:449:SER:OG	1:HB:450:ALA:N	2.55	0.40
1:HB:523:PHE:HB2	1:HB:543:TYR:HD2	1.87	0.40
1:HB:723:LYS:HA	1:HB:726:ALA:HB3	2.04	0.40
1:IB:95:ASP:O	1:IB:97:PHE:N	2.53	0.40
1:KB:591:PHE:CD1	1:KB:598:ILE:HD11	2.42	0.40
1:LB:579:VAL:HG13	1:LB:599:ILE:HG13	2.03	0.40
1:LB:724:ALA:HA	1:MB:715:ALA:CA	2.51	0.40
1:MB:179:ARG:NH1	1:MB:180:LYS:HB3	2.37	0.40
1:NB:338:GLN:HG3	1:NB:339:PRO:HD2	2.04	0.40
1:NB:474:ARG:HE	1:NB:491:PRO:HG2	1.86	0.40
1:NB:520:PRO:HA	1:NB:545:TRP:O	2.22	0.40
1:OB:174:LEU:HD12	1:OB:174:LEU:HA	1.92	0.40
1:OB:179:ARG:NH1	1:OB:180:LYS:HB3	2.37	0.40
1:OB:544:ASN:ND2	1:PB:573:LYS:HZ1	2.19	0.40
1:OB:690:ARG:O	1:OB:693:ILE:HB	2.21	0.40
1:PB:18:VAL:O	1:PB:26:SER:HA	2.21	0.40
1:PB:169:LYS:HD2	1:PB:169:LYS:HA	1.84	0.40
1:QB:232:ARG:CZ	1:QB:266:GLU:HB3	2.52	0.40
1:QB:377:ARG:HD3	1:QB:377:ARG:HA	1.93	0.40
1:QB:527:ILE:HD13	1:QB:576:ALA:HA	2.04	0.40
1:RB:523:PHE:HB2	1:RB:543:TYR:HD2	1.87	0.40
1:SB:138:MET:HB3	1:SB:141:ASP:OD1	2.21	0.40
1:SB:230:ARG:HH12	1:SB:268:LEU:HD21	1.86	0.40
1:SB:339:PRO:HD3	1:SB:353:ALA:HB2	2.02	0.40
1:SB:426:LEU:HB2	1:SB:460:TYR:HD1	1.87	0.40
1:SB:449:SER:OG	1:SB:450:ALA:N	2.55	0.40
1:SB:651:ARG:C	1:SB:653:ALA:H	2.17	0.40
1:TB:230:ARG:HH12	1:TB:268:LEU:HD21	1.86	0.40
1:TB:401:VAL:HG11	1:TB:406:TYR:CD2	2.56	0.40
1:UB:179:ARG:NH1	1:UB:180:LYS:HB3	2.37	0.40
1:UB:706:LEU:HD21	1:VB:696:GLN:OE1	2.21	0.40
1:UB:753:ILE:HD13	1:VB:748:ALA:CA	2.44	0.40
1:VB:88:GLN:O	1:VB:155:LYS:HE2	2.22	0.40
1:VB:523:PHE:HB2	1:VB:543:TYR:HD2	1.87	0.40
1:WB:426:LEU:HB2	1:WB:460:TYR:HD1	1.87	0.40
1:WB:756:GLU:C	1:WB:759:LEU:HB3	2.41	0.40
1:XB:587:THR:HG1	1:XB:588:PHE:H	1.69	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:XB:709:LEU:HA	1:XB:709:LEU:HD23	1.82	0.40
1:YB:338:GLN:HG3	1:YB:339:PRO:HD2	2.04	0.40
1:YB:523:PHE:HB2	1:YB:543:TYR:HD2	1.87	0.40
1:YB:701:LYS:O	1:YB:704:LYS:HB3	2.21	0.40
1:ZB:230:ARG:HH12	1:ZB:268:LEU:HD21	1.86	0.40
1:AC:88:GLN:O	1:AC:155:LYS:HE2	2.22	0.40
1:AC:179:ARG:NH1	1:AC:180:LYS:HB3	2.37	0.40
1:AC:181:GLU:HA	1:AC:191:VAL:HA	2.02	0.40
1:AC:232:ARG:CZ	1:AC:266:GLU:HB3	2.52	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	776/861 (90%)	673 (87%)	99 (13%)	4 (0%)	29	69
1	AA	776/861 (90%)	671 (86%)	101 (13%)	4 (0%)	29	69
1	AB	776/861 (90%)	674 (87%)	98 (13%)	4 (0%)	29	69
1	AC	776/861 (90%)	674 (87%)	98 (13%)	4 (0%)	29	69
1	B	776/861 (90%)	673 (87%)	99 (13%)	4 (0%)	29	69
1	BA	776/861 (90%)	675 (87%)	97 (12%)	4 (0%)	29	69
1	BB	776/861 (90%)	674 (87%)	98 (13%)	4 (0%)	29	69
1	C	776/861 (90%)	674 (87%)	98 (13%)	4 (0%)	29	69
1	CA	776/861 (90%)	674 (87%)	98 (13%)	4 (0%)	29	69
1	CB	776/861 (90%)	673 (87%)	99 (13%)	4 (0%)	29	69
1	D	776/861 (90%)	674 (87%)	98 (13%)	4 (0%)	29	69
1	DA	776/861 (90%)	674 (87%)	98 (13%)	4 (0%)	29	69
1	DB	776/861 (90%)	674 (87%)	98 (13%)	4 (0%)	29	69

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	E	776/861 (90%)	673 (87%)	99 (13%)	4 (0%)	29	69
1	EA	776/861 (90%)	674 (87%)	98 (13%)	4 (0%)	29	69
1	EB	776/861 (90%)	673 (87%)	99 (13%)	4 (0%)	29	69
1	F	776/861 (90%)	675 (87%)	97 (12%)	4 (0%)	29	69
1	FA	776/861 (90%)	675 (87%)	97 (12%)	4 (0%)	29	69
1	FB	776/861 (90%)	673 (87%)	99 (13%)	4 (0%)	29	69
1	G	776/861 (90%)	675 (87%)	97 (12%)	4 (0%)	29	69
1	GA	776/861 (90%)	675 (87%)	97 (12%)	4 (0%)	29	69
1	GB	776/861 (90%)	673 (87%)	99 (13%)	4 (0%)	29	69
1	H	776/861 (90%)	673 (87%)	99 (13%)	4 (0%)	29	69
1	HA	776/861 (90%)	674 (87%)	98 (13%)	4 (0%)	29	69
1	HB	776/861 (90%)	675 (87%)	97 (12%)	4 (0%)	29	69
1	I	776/861 (90%)	674 (87%)	98 (13%)	4 (0%)	29	69
1	IA	776/861 (90%)	675 (87%)	97 (12%)	4 (0%)	29	69
1	IB	776/861 (90%)	675 (87%)	97 (12%)	4 (0%)	29	69
1	J	776/861 (90%)	674 (87%)	98 (13%)	4 (0%)	29	69
1	JA	776/861 (90%)	674 (87%)	98 (13%)	4 (0%)	29	69
1	JB	776/861 (90%)	674 (87%)	98 (13%)	4 (0%)	29	69
1	K	776/861 (90%)	673 (87%)	99 (13%)	4 (0%)	29	69
1	KA	776/861 (90%)	675 (87%)	97 (12%)	4 (0%)	29	69
1	KB	776/861 (90%)	674 (87%)	98 (13%)	4 (0%)	29	69
1	L	776/861 (90%)	675 (87%)	97 (12%)	4 (0%)	29	69
1	LA	776/861 (90%)	674 (87%)	98 (13%)	4 (0%)	29	69
1	LB	776/861 (90%)	672 (87%)	100 (13%)	4 (0%)	29	69
1	M	776/861 (90%)	674 (87%)	98 (13%)	4 (0%)	29	69
1	MA	776/861 (90%)	674 (87%)	98 (13%)	4 (0%)	29	69
1	MB	776/861 (90%)	674 (87%)	98 (13%)	4 (0%)	29	69
1	N	776/861 (90%)	674 (87%)	98 (13%)	4 (0%)	29	69
1	NA	776/861 (90%)	675 (87%)	97 (12%)	4 (0%)	29	69
1	NB	776/861 (90%)	673 (87%)	99 (13%)	4 (0%)	29	69
1	O	776/861 (90%)	674 (87%)	98 (13%)	4 (0%)	29	69

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	OA	776/861 (90%)	674 (87%)	98 (13%)	4 (0%)	29	69
1	OB	776/861 (90%)	673 (87%)	99 (13%)	4 (0%)	29	69
1	P	776/861 (90%)	675 (87%)	97 (12%)	4 (0%)	29	69
1	PA	776/861 (90%)	673 (87%)	99 (13%)	4 (0%)	29	69
1	PB	776/861 (90%)	673 (87%)	99 (13%)	4 (0%)	29	69
1	Q	776/861 (90%)	675 (87%)	97 (12%)	4 (0%)	29	69
1	QA	776/861 (90%)	673 (87%)	99 (13%)	4 (0%)	29	69
1	QB	776/861 (90%)	675 (87%)	97 (12%)	4 (0%)	29	69
1	R	776/861 (90%)	674 (87%)	98 (13%)	4 (0%)	29	69
1	RA	776/861 (90%)	674 (87%)	98 (13%)	4 (0%)	29	69
1	RB	776/861 (90%)	675 (87%)	97 (12%)	4 (0%)	29	69
1	S	776/861 (90%)	675 (87%)	97 (12%)	4 (0%)	29	69
1	SA	776/861 (90%)	674 (87%)	98 (13%)	4 (0%)	29	69
1	SB	776/861 (90%)	673 (87%)	99 (13%)	4 (0%)	29	69
1	T	776/861 (90%)	673 (87%)	99 (13%)	4 (0%)	29	69
1	TA	776/861 (90%)	674 (87%)	98 (13%)	4 (0%)	29	69
1	TB	776/861 (90%)	675 (87%)	97 (12%)	4 (0%)	29	69
1	UA	776/861 (90%)	673 (87%)	99 (13%)	4 (0%)	29	69
1	UB	776/861 (90%)	673 (87%)	99 (13%)	4 (0%)	29	69
1	V	776/861 (90%)	674 (87%)	98 (13%)	4 (0%)	29	69
1	VA	776/861 (90%)	674 (87%)	98 (13%)	4 (0%)	29	69
1	VB	776/861 (90%)	674 (87%)	98 (13%)	4 (0%)	29	69
1	W	776/861 (90%)	674 (87%)	98 (13%)	4 (0%)	29	69
1	WA	776/861 (90%)	674 (87%)	98 (13%)	4 (0%)	29	69
1	WB	776/861 (90%)	674 (87%)	98 (13%)	4 (0%)	29	69
1	X	776/861 (90%)	673 (87%)	99 (13%)	4 (0%)	29	69
1	XA	776/861 (90%)	674 (87%)	98 (13%)	4 (0%)	29	69
1	XB	776/861 (90%)	675 (87%)	97 (12%)	4 (0%)	29	69
1	Y	776/861 (90%)	674 (87%)	98 (13%)	4 (0%)	29	69
1	YA	776/861 (90%)	673 (87%)	99 (13%)	4 (0%)	29	69
1	YB	776/861 (90%)	674 (87%)	98 (13%)	4 (0%)	29	69

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	Z	776/861 (90%)	674 (87%)	98 (13%)	4 (0%)	29	69
1	ZA	776/861 (90%)	674 (87%)	98 (13%)	4 (0%)	29	69
1	ZB	776/861 (90%)	675 (87%)	97 (12%)	4 (0%)	29	69
All	All	60528/67158 (90%)	52566 (87%)	7650 (13%)	312 (0%)	32	69

All (312) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	A	651	ARG
1	A	652	ASP
1	B	651	ARG
1	B	652	ASP
1	C	651	ARG
1	C	652	ASP
1	D	651	ARG
1	D	652	ASP
1	E	651	ARG
1	E	652	ASP
1	F	651	ARG
1	F	652	ASP
1	G	651	ARG
1	G	652	ASP
1	H	651	ARG
1	H	652	ASP
1	I	651	ARG
1	I	652	ASP
1	J	651	ARG
1	J	652	ASP
1	K	651	ARG
1	K	652	ASP
1	L	651	ARG
1	L	652	ASP
1	M	651	ARG
1	M	652	ASP
1	N	651	ARG
1	N	652	ASP
1	O	651	ARG
1	O	652	ASP
1	P	651	ARG
1	P	652	ASP
1	Q	651	ARG

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Mol	Chain	Res	Type
1	Q	652	ASP
1	R	651	ARG
1	R	652	ASP
1	S	651	ARG
1	S	652	ASP
1	T	651	ARG
1	T	652	ASP
1	V	651	ARG
1	V	652	ASP
1	W	651	ARG
1	W	652	ASP
1	X	651	ARG
1	X	652	ASP
1	Y	651	ARG
1	Y	652	ASP
1	Z	651	ARG
1	Z	652	ASP
1	AA	651	ARG
1	AA	652	ASP
1	BA	651	ARG
1	BA	652	ASP
1	CA	651	ARG
1	CA	652	ASP
1	DA	651	ARG
1	DA	652	ASP
1	EA	651	ARG
1	EA	652	ASP
1	FA	651	ARG
1	FA	652	ASP
1	GA	651	ARG
1	GA	652	ASP
1	HA	651	ARG
1	HA	652	ASP
1	IA	651	ARG
1	IA	652	ASP
1	JA	651	ARG
1	JA	652	ASP
1	KA	651	ARG
1	KA	652	ASP
1	LA	651	ARG
1	LA	652	ASP
1	MA	651	ARG

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Mol	Chain	Res	Type
1	MA	652	ASP
1	NA	651	ARG
1	NA	652	ASP
1	OA	651	ARG
1	OA	652	ASP
1	PA	651	ARG
1	PA	652	ASP
1	QA	651	ARG
1	QA	652	ASP
1	RA	651	ARG
1	RA	652	ASP
1	SA	651	ARG
1	SA	652	ASP
1	TA	651	ARG
1	TA	652	ASP
1	UA	651	ARG
1	UA	652	ASP
1	VA	651	ARG
1	VA	652	ASP
1	WA	651	ARG
1	WA	652	ASP
1	XA	651	ARG
1	XA	652	ASP
1	YA	651	ARG
1	YA	652	ASP
1	ZA	651	ARG
1	ZA	652	ASP
1	AB	651	ARG
1	AB	652	ASP
1	BB	651	ARG
1	BB	652	ASP
1	CB	651	ARG
1	CB	652	ASP
1	DB	651	ARG
1	DB	652	ASP
1	EB	651	ARG
1	EB	652	ASP
1	FB	651	ARG
1	FB	652	ASP
1	GB	651	ARG
1	GB	652	ASP
1	HB	651	ARG

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Mol	Chain	Res	Type
1	HB	652	ASP
1	IB	651	ARG
1	IB	652	ASP
1	JB	651	ARG
1	JB	652	ASP
1	KB	651	ARG
1	KB	652	ASP
1	LB	651	ARG
1	LB	652	ASP
1	MB	651	ARG
1	MB	652	ASP
1	NB	651	ARG
1	NB	652	ASP
1	OB	651	ARG
1	OB	652	ASP
1	PB	651	ARG
1	PB	652	ASP
1	QB	651	ARG
1	QB	652	ASP
1	RB	651	ARG
1	RB	652	ASP
1	SB	651	ARG
1	SB	652	ASP
1	TB	651	ARG
1	TB	652	ASP
1	UB	651	ARG
1	UB	652	ASP
1	VB	651	ARG
1	VB	652	ASP
1	WB	651	ARG
1	WB	652	ASP
1	XB	651	ARG
1	XB	652	ASP
1	YB	651	ARG
1	YB	652	ASP
1	ZB	651	ARG
1	ZB	652	ASP
1	AC	651	ARG
1	AC	652	ASP
1	A	645	PRO
1	B	645	PRO
1	C	645	PRO

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Mol	Chain	Res	Type
1	D	645	PRO
1	E	645	PRO
1	F	645	PRO
1	G	645	PRO
1	H	645	PRO
1	I	645	PRO
1	J	645	PRO
1	K	645	PRO
1	L	645	PRO
1	M	645	PRO
1	N	645	PRO
1	O	645	PRO
1	P	645	PRO
1	Q	645	PRO
1	R	645	PRO
1	S	645	PRO
1	T	645	PRO
1	V	645	PRO
1	W	645	PRO
1	X	645	PRO
1	Y	645	PRO
1	Z	645	PRO
1	AA	645	PRO
1	BA	645	PRO
1	CA	645	PRO
1	DA	645	PRO
1	EA	645	PRO
1	FA	645	PRO
1	GA	645	PRO
1	HA	645	PRO
1	IA	645	PRO
1	JA	645	PRO
1	KA	645	PRO
1	LA	645	PRO
1	MA	645	PRO
1	NA	645	PRO
1	OA	645	PRO
1	PA	645	PRO
1	QA	645	PRO
1	RA	645	PRO
1	SA	645	PRO
1	TA	645	PRO

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Mol	Chain	Res	Type
1	UA	645	PRO
1	VA	645	PRO
1	WA	645	PRO
1	XA	645	PRO
1	YA	645	PRO
1	ZA	645	PRO
1	AB	645	PRO
1	BB	645	PRO
1	CB	645	PRO
1	DB	645	PRO
1	EB	645	PRO
1	FB	645	PRO
1	GB	645	PRO
1	HB	645	PRO
1	IB	645	PRO
1	JB	645	PRO
1	KB	645	PRO
1	LB	645	PRO
1	MB	645	PRO
1	NB	645	PRO
1	OB	645	PRO
1	PB	645	PRO
1	QB	645	PRO
1	RB	645	PRO
1	SB	645	PRO
1	TB	645	PRO
1	UB	645	PRO
1	VB	645	PRO
1	WB	645	PRO
1	XB	645	PRO
1	YB	645	PRO
1	ZB	645	PRO
1	AC	645	PRO
1	A	505	PRO
1	B	505	PRO
1	C	505	PRO
1	D	505	PRO
1	E	505	PRO
1	F	505	PRO
1	G	505	PRO
1	H	505	PRO
1	I	505	PRO

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Mol	Chain	Res	Type
1	J	505	PRO
1	K	505	PRO
1	L	505	PRO
1	M	505	PRO
1	N	505	PRO
1	O	505	PRO
1	P	505	PRO
1	Q	505	PRO
1	R	505	PRO
1	S	505	PRO
1	T	505	PRO
1	V	505	PRO
1	W	505	PRO
1	X	505	PRO
1	Y	505	PRO
1	Z	505	PRO
1	AA	505	PRO
1	BA	505	PRO
1	CA	505	PRO
1	DA	505	PRO
1	EA	505	PRO
1	FA	505	PRO
1	GA	505	PRO
1	HA	505	PRO
1	IA	505	PRO
1	JA	505	PRO
1	KA	505	PRO
1	LA	505	PRO
1	MA	505	PRO
1	NA	505	PRO
1	OA	505	PRO
1	PA	505	PRO
1	QA	505	PRO
1	RA	505	PRO
1	SA	505	PRO
1	TA	505	PRO
1	UA	505	PRO
1	VA	505	PRO
1	WA	505	PRO
1	XA	505	PRO
1	YA	505	PRO
1	ZA	505	PRO

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Mol	Chain	Res	Type
1	AB	505	PRO
1	BB	505	PRO
1	CB	505	PRO
1	DB	505	PRO
1	EB	505	PRO
1	FB	505	PRO
1	GB	505	PRO
1	HB	505	PRO
1	IB	505	PRO
1	JB	505	PRO
1	KB	505	PRO
1	LB	505	PRO
1	MB	505	PRO
1	NB	505	PRO
1	OB	505	PRO
1	PB	505	PRO
1	QB	505	PRO
1	RB	505	PRO
1	SB	505	PRO
1	TB	505	PRO
1	UB	505	PRO
1	VB	505	PRO
1	WB	505	PRO
1	XB	505	PRO
1	YB	505	PRO
1	ZB	505	PRO
1	AC	505	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	654/726 (90%)	650 (99%)	4 (1%)	86 92
1	AA	654/726 (90%)	650 (99%)	4 (1%)	86 92
1	AB	654/726 (90%)	650 (99%)	4 (1%)	86 92

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
1	AC	654/726 (90%)	650 (99%)	4 (1%)	86	92
1	B	654/726 (90%)	650 (99%)	4 (1%)	86	92
1	BA	654/726 (90%)	650 (99%)	4 (1%)	86	92
1	BB	654/726 (90%)	651 (100%)	3 (0%)	88	93
1	C	654/726 (90%)	650 (99%)	4 (1%)	86	92
1	CA	654/726 (90%)	650 (99%)	4 (1%)	86	92
1	CB	654/726 (90%)	650 (99%)	4 (1%)	86	92
1	D	654/726 (90%)	650 (99%)	4 (1%)	86	92
1	DA	654/726 (90%)	650 (99%)	4 (1%)	86	92
1	DB	654/726 (90%)	650 (99%)	4 (1%)	86	92
1	E	654/726 (90%)	650 (99%)	4 (1%)	86	92
1	EA	654/726 (90%)	651 (100%)	3 (0%)	88	93
1	EB	654/726 (90%)	650 (99%)	4 (1%)	86	92
1	F	654/726 (90%)	650 (99%)	4 (1%)	86	92
1	FA	654/726 (90%)	650 (99%)	4 (1%)	86	92
1	FB	654/726 (90%)	649 (99%)	5 (1%)	81	89
1	G	654/726 (90%)	650 (99%)	4 (1%)	86	92
1	GA	654/726 (90%)	650 (99%)	4 (1%)	86	92
1	GB	654/726 (90%)	650 (99%)	4 (1%)	86	92
1	H	654/726 (90%)	651 (100%)	3 (0%)	88	93
1	HA	654/726 (90%)	650 (99%)	4 (1%)	86	92
1	HB	654/726 (90%)	650 (99%)	4 (1%)	86	92
1	I	654/726 (90%)	651 (100%)	3 (0%)	88	93
1	IA	654/726 (90%)	650 (99%)	4 (1%)	86	92
1	IB	654/726 (90%)	650 (99%)	4 (1%)	86	92
1	J	654/726 (90%)	650 (99%)	4 (1%)	86	92
1	JA	654/726 (90%)	650 (99%)	4 (1%)	86	92
1	JB	654/726 (90%)	650 (99%)	4 (1%)	86	92
1	K	654/726 (90%)	650 (99%)	4 (1%)	86	92
1	KA	654/726 (90%)	650 (99%)	4 (1%)	86	92
1	KB	654/726 (90%)	650 (99%)	4 (1%)	86	92

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
1	L	654/726 (90%)	650 (99%)	4 (1%)	86	92
1	LA	654/726 (90%)	650 (99%)	4 (1%)	86	92
1	LB	654/726 (90%)	650 (99%)	4 (1%)	86	92
1	M	654/726 (90%)	650 (99%)	4 (1%)	86	92
1	MA	654/726 (90%)	650 (99%)	4 (1%)	86	92
1	MB	654/726 (90%)	650 (99%)	4 (1%)	86	92
1	N	654/726 (90%)	651 (100%)	3 (0%)	88	93
1	NA	654/726 (90%)	650 (99%)	4 (1%)	86	92
1	NB	654/726 (90%)	650 (99%)	4 (1%)	86	92
1	O	654/726 (90%)	650 (99%)	4 (1%)	86	92
1	OA	654/726 (90%)	650 (99%)	4 (1%)	86	92
1	OB	654/726 (90%)	650 (99%)	4 (1%)	86	92
1	P	654/726 (90%)	650 (99%)	4 (1%)	86	92
1	PA	654/726 (90%)	650 (99%)	4 (1%)	86	92
1	PB	654/726 (90%)	650 (99%)	4 (1%)	86	92
1	Q	654/726 (90%)	650 (99%)	4 (1%)	86	92
1	QA	654/726 (90%)	651 (100%)	3 (0%)	88	93
1	QB	654/726 (90%)	650 (99%)	4 (1%)	86	92
1	R	654/726 (90%)	649 (99%)	5 (1%)	81	89
1	RA	654/726 (90%)	650 (99%)	4 (1%)	86	92
1	RB	654/726 (90%)	649 (99%)	5 (1%)	81	89
1	S	654/726 (90%)	650 (99%)	4 (1%)	86	92
1	SA	654/726 (90%)	651 (100%)	3 (0%)	88	93
1	SB	654/726 (90%)	649 (99%)	5 (1%)	81	89
1	T	654/726 (90%)	650 (99%)	4 (1%)	86	92
1	TA	654/726 (90%)	650 (99%)	4 (1%)	86	92
1	TB	654/726 (90%)	650 (99%)	4 (1%)	86	92
1	UA	654/726 (90%)	650 (99%)	4 (1%)	86	92
1	UB	654/726 (90%)	649 (99%)	5 (1%)	81	89
1	V	654/726 (90%)	650 (99%)	4 (1%)	86	92
1	VA	654/726 (90%)	651 (100%)	3 (0%)	88	93

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
1	VB	654/726 (90%)	650 (99%)	4 (1%)	86	92
1	W	654/726 (90%)	650 (99%)	4 (1%)	86	92
1	WA	654/726 (90%)	650 (99%)	4 (1%)	86	92
1	WB	654/726 (90%)	650 (99%)	4 (1%)	86	92
1	X	654/726 (90%)	651 (100%)	3 (0%)	88	93
1	XA	654/726 (90%)	650 (99%)	4 (1%)	86	92
1	XB	654/726 (90%)	650 (99%)	4 (1%)	86	92
1	Y	654/726 (90%)	650 (99%)	4 (1%)	86	92
1	YA	654/726 (90%)	650 (99%)	4 (1%)	86	92
1	YB	654/726 (90%)	651 (100%)	3 (0%)	88	93
1	Z	654/726 (90%)	650 (99%)	4 (1%)	86	92
1	ZA	654/726 (90%)	650 (99%)	4 (1%)	86	92
1	ZB	654/726 (90%)	650 (99%)	4 (1%)	86	92
All	All	51012/56628 (90%)	50705 (99%)	307 (1%)	86	92

All (307) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	179	ARG
1	A	239	ARG
1	A	656	ARG
1	A	687	ARG
1	B	179	ARG
1	B	239	ARG
1	B	656	ARG
1	B	687	ARG
1	C	179	ARG
1	C	239	ARG
1	C	656	ARG
1	C	687	ARG
1	D	179	ARG
1	D	239	ARG
1	D	656	ARG
1	D	687	ARG
1	E	179	ARG
1	E	239	ARG
1	E	656	ARG

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Mol	Chain	Res	Type
1	E	687	ARG
1	F	179	ARG
1	F	239	ARG
1	F	656	ARG
1	F	687	ARG
1	G	179	ARG
1	G	239	ARG
1	G	656	ARG
1	G	687	ARG
1	H	179	ARG
1	H	239	ARG
1	H	687	ARG
1	I	179	ARG
1	I	239	ARG
1	I	687	ARG
1	J	179	ARG
1	J	239	ARG
1	J	656	ARG
1	J	687	ARG
1	K	179	ARG
1	K	239	ARG
1	K	656	ARG
1	K	687	ARG
1	L	179	ARG
1	L	239	ARG
1	L	656	ARG
1	L	687	ARG
1	M	179	ARG
1	M	239	ARG
1	M	656	ARG
1	M	687	ARG
1	N	179	ARG
1	N	239	ARG
1	N	687	ARG
1	O	179	ARG
1	O	239	ARG
1	O	656	ARG
1	O	687	ARG
1	P	179	ARG
1	P	239	ARG
1	P	656	ARG
1	P	687	ARG

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Mol	Chain	Res	Type
1	Q	179	ARG
1	Q	239	ARG
1	Q	656	ARG
1	Q	687	ARG
1	R	179	ARG
1	R	239	ARG
1	R	544	ASN
1	R	656	ARG
1	R	687	ARG
1	S	179	ARG
1	S	239	ARG
1	S	656	ARG
1	S	687	ARG
1	T	179	ARG
1	T	239	ARG
1	T	656	ARG
1	T	687	ARG
1	V	179	ARG
1	V	239	ARG
1	V	656	ARG
1	V	687	ARG
1	W	179	ARG
1	W	239	ARG
1	W	656	ARG
1	W	687	ARG
1	X	179	ARG
1	X	239	ARG
1	X	687	ARG
1	Y	179	ARG
1	Y	239	ARG
1	Y	656	ARG
1	Y	687	ARG
1	Z	179	ARG
1	Z	239	ARG
1	Z	656	ARG
1	Z	687	ARG
1	AA	179	ARG
1	AA	239	ARG
1	AA	656	ARG
1	AA	687	ARG
1	BA	179	ARG
1	BA	239	ARG

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Mol	Chain	Res	Type
1	BA	656	ARG
1	BA	687	ARG
1	CA	179	ARG
1	CA	239	ARG
1	CA	656	ARG
1	CA	687	ARG
1	DA	179	ARG
1	DA	239	ARG
1	DA	656	ARG
1	DA	687	ARG
1	EA	179	ARG
1	EA	239	ARG
1	EA	687	ARG
1	FA	179	ARG
1	FA	239	ARG
1	FA	656	ARG
1	FA	687	ARG
1	GA	179	ARG
1	GA	239	ARG
1	GA	656	ARG
1	GA	687	ARG
1	HA	179	ARG
1	HA	239	ARG
1	HA	656	ARG
1	HA	687	ARG
1	IA	179	ARG
1	IA	239	ARG
1	IA	656	ARG
1	IA	687	ARG
1	JA	179	ARG
1	JA	239	ARG
1	JA	656	ARG
1	JA	687	ARG
1	KA	179	ARG
1	KA	239	ARG
1	KA	656	ARG
1	KA	687	ARG
1	LA	179	ARG
1	LA	239	ARG
1	LA	656	ARG
1	LA	687	ARG
1	MA	179	ARG

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Mol	Chain	Res	Type
1	MA	239	ARG
1	MA	656	ARG
1	MA	687	ARG
1	NA	179	ARG
1	NA	239	ARG
1	NA	656	ARG
1	NA	687	ARG
1	OA	179	ARG
1	OA	239	ARG
1	OA	656	ARG
1	OA	687	ARG
1	PA	179	ARG
1	PA	239	ARG
1	PA	656	ARG
1	PA	687	ARG
1	QA	179	ARG
1	QA	239	ARG
1	QA	687	ARG
1	RA	179	ARG
1	RA	239	ARG
1	RA	656	ARG
1	RA	687	ARG
1	SA	179	ARG
1	SA	239	ARG
1	SA	687	ARG
1	TA	179	ARG
1	TA	239	ARG
1	TA	656	ARG
1	TA	687	ARG
1	UA	179	ARG
1	UA	239	ARG
1	UA	656	ARG
1	UA	687	ARG
1	VA	179	ARG
1	VA	239	ARG
1	VA	687	ARG
1	WA	179	ARG
1	WA	239	ARG
1	WA	656	ARG
1	WA	687	ARG
1	XA	179	ARG
1	XA	239	ARG

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Mol	Chain	Res	Type
1	XA	656	ARG
1	XA	687	ARG
1	YA	179	ARG
1	YA	239	ARG
1	YA	656	ARG
1	YA	687	ARG
1	ZA	179	ARG
1	ZA	239	ARG
1	ZA	656	ARG
1	ZA	687	ARG
1	AB	179	ARG
1	AB	239	ARG
1	AB	656	ARG
1	AB	687	ARG
1	BB	179	ARG
1	BB	239	ARG
1	BB	687	ARG
1	CB	179	ARG
1	CB	239	ARG
1	CB	656	ARG
1	CB	687	ARG
1	DB	179	ARG
1	DB	239	ARG
1	DB	656	ARG
1	DB	687	ARG
1	EB	179	ARG
1	EB	239	ARG
1	EB	656	ARG
1	EB	687	ARG
1	FB	179	ARG
1	FB	239	ARG
1	FB	544	ASN
1	FB	656	ARG
1	FB	687	ARG
1	GB	179	ARG
1	GB	239	ARG
1	GB	656	ARG
1	GB	687	ARG
1	HB	179	ARG
1	HB	239	ARG
1	HB	656	ARG
1	HB	687	ARG

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Mol	Chain	Res	Type
1	IB	179	ARG
1	IB	239	ARG
1	IB	656	ARG
1	IB	687	ARG
1	JB	179	ARG
1	JB	239	ARG
1	JB	656	ARG
1	JB	687	ARG
1	KB	179	ARG
1	KB	239	ARG
1	KB	656	ARG
1	KB	687	ARG
1	LB	179	ARG
1	LB	239	ARG
1	LB	656	ARG
1	LB	687	ARG
1	MB	179	ARG
1	MB	239	ARG
1	MB	656	ARG
1	MB	687	ARG
1	NB	179	ARG
1	NB	239	ARG
1	NB	656	ARG
1	NB	687	ARG
1	OB	179	ARG
1	OB	239	ARG
1	OB	656	ARG
1	OB	687	ARG
1	PB	179	ARG
1	PB	239	ARG
1	PB	656	ARG
1	PB	687	ARG
1	QB	179	ARG
1	QB	239	ARG
1	QB	656	ARG
1	QB	687	ARG
1	RB	179	ARG
1	RB	239	ARG
1	RB	544	ASN
1	RB	656	ARG
1	RB	687	ARG
1	SB	179	ARG

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Mol	Chain	Res	Type
1	SB	239	ARG
1	SB	544	ASN
1	SB	656	ARG
1	SB	687	ARG
1	TB	179	ARG
1	TB	239	ARG
1	TB	656	ARG
1	TB	687	ARG
1	UB	179	ARG
1	UB	239	ARG
1	UB	544	ASN
1	UB	656	ARG
1	UB	687	ARG
1	VB	179	ARG
1	VB	239	ARG
1	VB	656	ARG
1	VB	687	ARG
1	WB	179	ARG
1	WB	239	ARG
1	WB	656	ARG
1	WB	687	ARG
1	XB	179	ARG
1	XB	239	ARG
1	XB	656	ARG
1	XB	687	ARG
1	YB	179	ARG
1	YB	239	ARG
1	YB	687	ARG
1	ZB	179	ARG
1	ZB	239	ARG
1	ZB	656	ARG
1	ZB	687	ARG
1	AC	179	ARG
1	AC	239	ARG
1	AC	656	ARG
1	AC	687	ARG

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (168) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	88	GLN
1	A	464	HIS

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Mol	Chain	Res	Type
1	A	465	ASN
1	A	534	HIS
1	A	743	GLN
1	A	776	GLN
1	B	88	GLN
1	B	329	GLN
1	B	385	ASN
1	B	785	GLN
1	B	789	ASN
1	C	88	GLN
1	C	469	GLN
1	C	534	HIS
1	C	743	GLN
1	C	785	GLN
1	D	88	GLN
1	D	171	ASN
1	D	329	GLN
1	D	534	HIS
1	D	544	ASN
1	D	655	GLN
1	D	669	GLN
1	E	88	GLN
1	E	171	ASN
1	E	385	ASN
1	E	785	GLN
1	F	85	HIS
1	F	88	GLN
1	F	171	ASN
1	F	294	ASN
1	F	352	GLN
1	F	534	HIS
1	G	88	GLN
1	G	171	ASN
1	G	385	ASN
1	G	534	HIS
1	H	88	GLN
1	H	171	ASN
1	H	534	HIS
1	I	88	GLN
1	I	785	GLN
1	J	88	GLN
1	J	785	GLN

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Mol	Chain	Res	Type
1	K	88	GLN
1	L	88	GLN
1	L	118	ASN
1	L	465	ASN
1	M	88	GLN
1	N	88	GLN
1	N	118	ASN
1	N	329	GLN
1	N	465	ASN
1	O	88	GLN
1	P	88	GLN
1	P	592	HIS
1	Q	88	GLN
1	R	88	GLN
1	R	534	HIS
1	R	655	GLN
1	R	675	HIS
1	S	88	GLN
1	T	88	GLN
1	V	88	GLN
1	W	88	GLN
1	X	88	GLN
1	Y	88	GLN
1	Z	88	GLN
1	AA	88	GLN
1	BA	88	GLN
1	CA	88	GLN
1	DA	88	GLN
1	EA	88	GLN
1	FA	88	GLN
1	GA	88	GLN
1	HA	88	GLN
1	IA	88	GLN
1	IA	171	ASN
1	IA	655	GLN
1	JA	88	GLN
1	KA	88	GLN
1	LA	88	GLN
1	MA	88	GLN
1	NA	88	GLN
1	OA	88	GLN
1	PA	88	GLN

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Mol	Chain	Res	Type
1	PA	465	ASN
1	QA	88	GLN
1	QA	171	ASN
1	QA	385	ASN
1	RA	88	GLN
1	SA	88	GLN
1	SA	534	HIS
1	TA	24	ASN
1	TA	88	GLN
1	UA	88	GLN
1	VA	88	GLN
1	WA	88	GLN
1	XA	88	GLN
1	YA	88	GLN
1	ZA	88	GLN
1	AB	88	GLN
1	AB	465	ASN
1	BB	88	GLN
1	CB	88	GLN
1	DB	88	GLN
1	EB	88	GLN
1	FB	88	GLN
1	FB	171	ASN
1	FB	464	HIS
1	FB	592	HIS
1	FB	641	GLN
1	GB	88	GLN
1	GB	469	GLN
1	GB	534	HIS
1	HB	88	GLN
1	IB	88	GLN
1	JB	88	GLN
1	JB	465	ASN
1	JB	534	HIS
1	KB	88	GLN
1	LB	88	GLN
1	LB	464	HIS
1	LB	465	ASN
1	LB	655	GLN
1	LB	743	GLN
1	MB	88	GLN
1	NB	88	GLN

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Mol	Chain	Res	Type
1	NB	743	GLN
1	OB	88	GLN
1	OB	118	ASN
1	OB	385	ASN
1	OB	464	HIS
1	OB	544	ASN
1	OB	655	GLN
1	PB	85	HIS
1	PB	88	GLN
1	PB	298	GLN
1	PB	391	GLN
1	PB	675	HIS
1	QB	88	GLN
1	QB	592	HIS
1	QB	655	GLN
1	RB	88	GLN
1	RB	534	HIS
1	SB	24	ASN
1	SB	88	GLN
1	SB	655	GLN
1	SB	743	GLN
1	TB	88	GLN
1	TB	655	GLN
1	UB	88	GLN
1	UB	465	ASN
1	UB	534	HIS
1	VB	88	GLN
1	VB	465	ASN
1	VB	675	HIS
1	VB	743	GLN
1	WB	88	GLN
1	WB	464	HIS
1	WB	465	ASN
1	WB	675	HIS
1	XB	88	GLN
1	YB	88	GLN
1	ZB	88	GLN
1	ZB	749	GLN
1	AC	88	GLN
1	AC	171	ASN

5.3.3 RNA

There are no RNA molecules in this entry.

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

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

5.5 Carbohydrates

There are no monosaccharides in this entry.

5.6 Ligand geometry

There are no ligands in this entry.

5.7 Other polymers

There are no such residues in this entry.

5.8 Polymer linkage issues

There are no chain breaks in this entry.

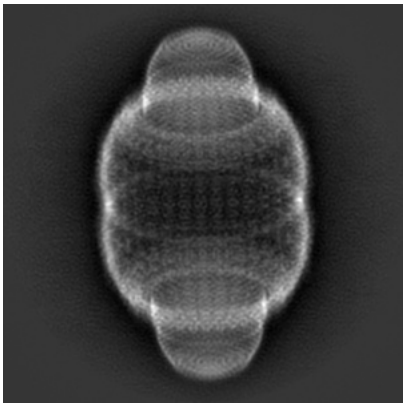
6 Map visualisation

This section contains visualisations of the EMDB entry EMD-13483. These allow visual inspection of the internal detail of the map and identification of artifacts.

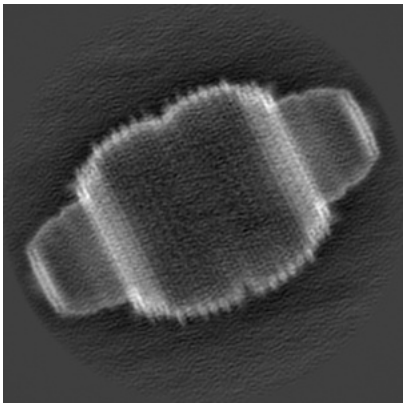
No raw map or half-maps were deposited for this entry and therefore no images, graphs, etc. pertaining to the raw map can be shown.

6.1 Orthogonal projections

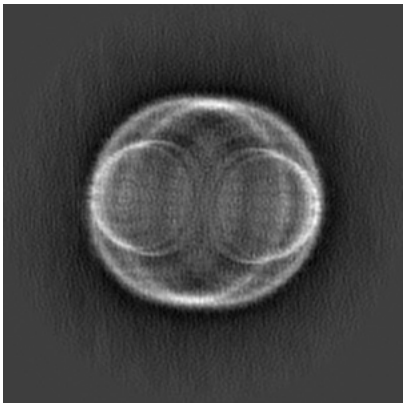
6.1.1 Primary map



X



Y

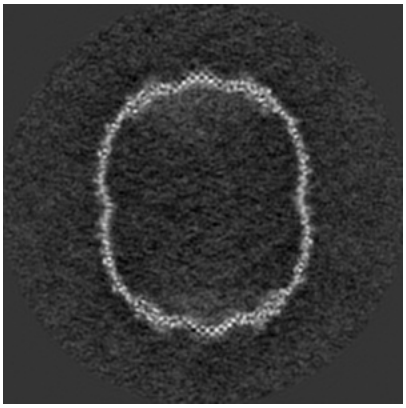


Z

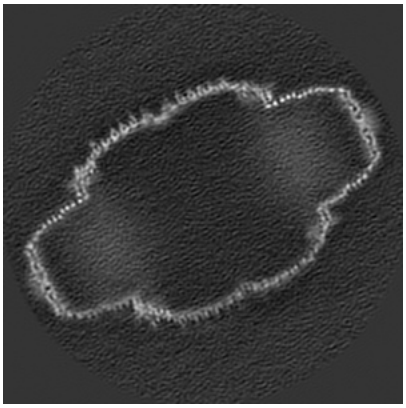
The images above show the map projected in three orthogonal directions.

6.2 Central slices

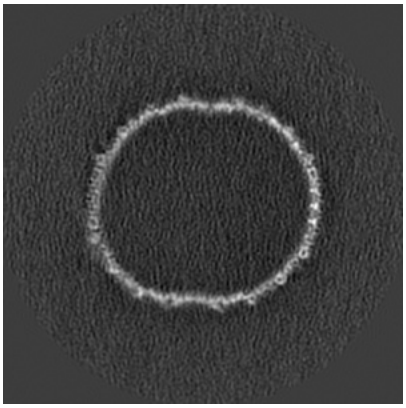
6.2.1 Primary map



X Index: 100



Y Index: 100

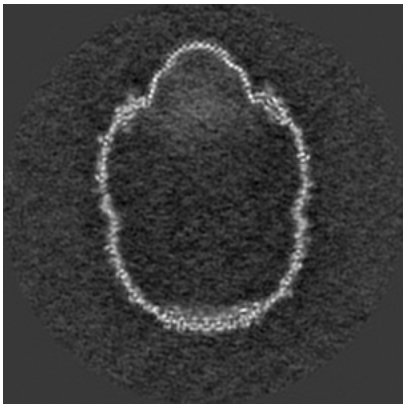


Z Index: 100

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

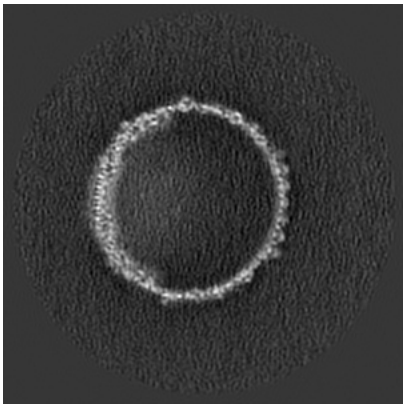
6.3 Largest variance slices (i)

6.3.1 Primary map



X Index: 112

Y Index: 126

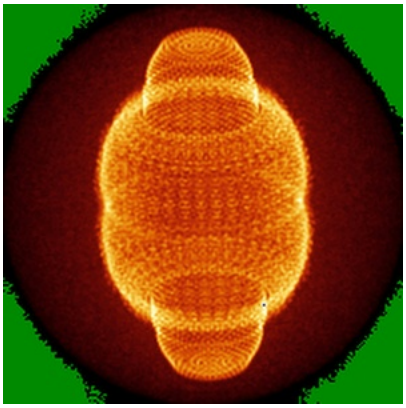


Z Index: 66

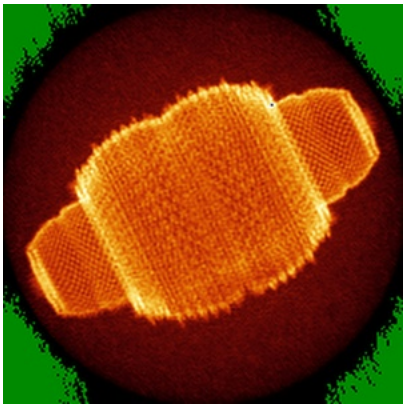
The images above show the largest variance slices of the map in three orthogonal directions.

6.4 Orthogonal standard-deviation projections (False-color) (i)

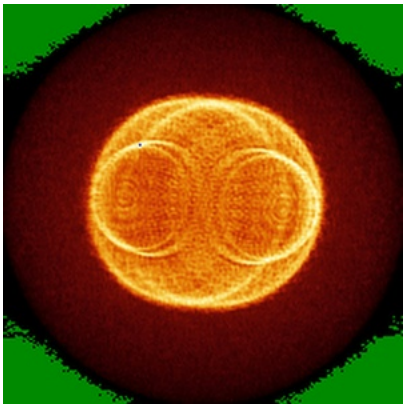
6.4.1 Primary map



X



Y

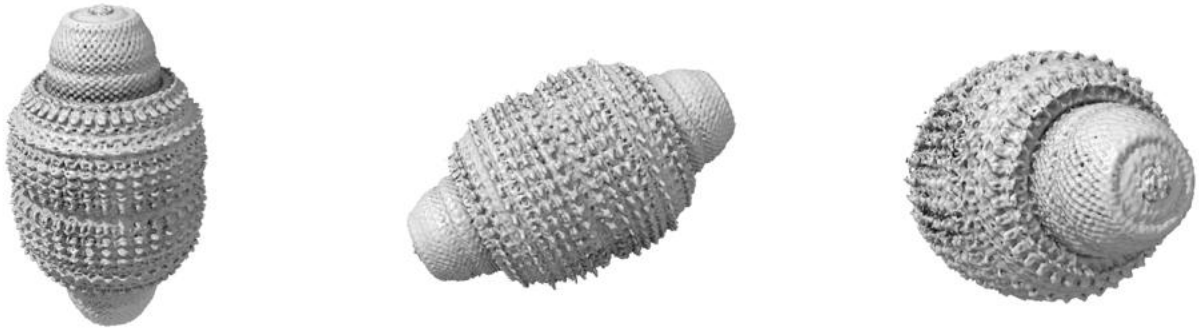


Z

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 0.07. These images, in conjunction with the slice images, may facilitate assessment of whether an appropriate contour level has been provided.

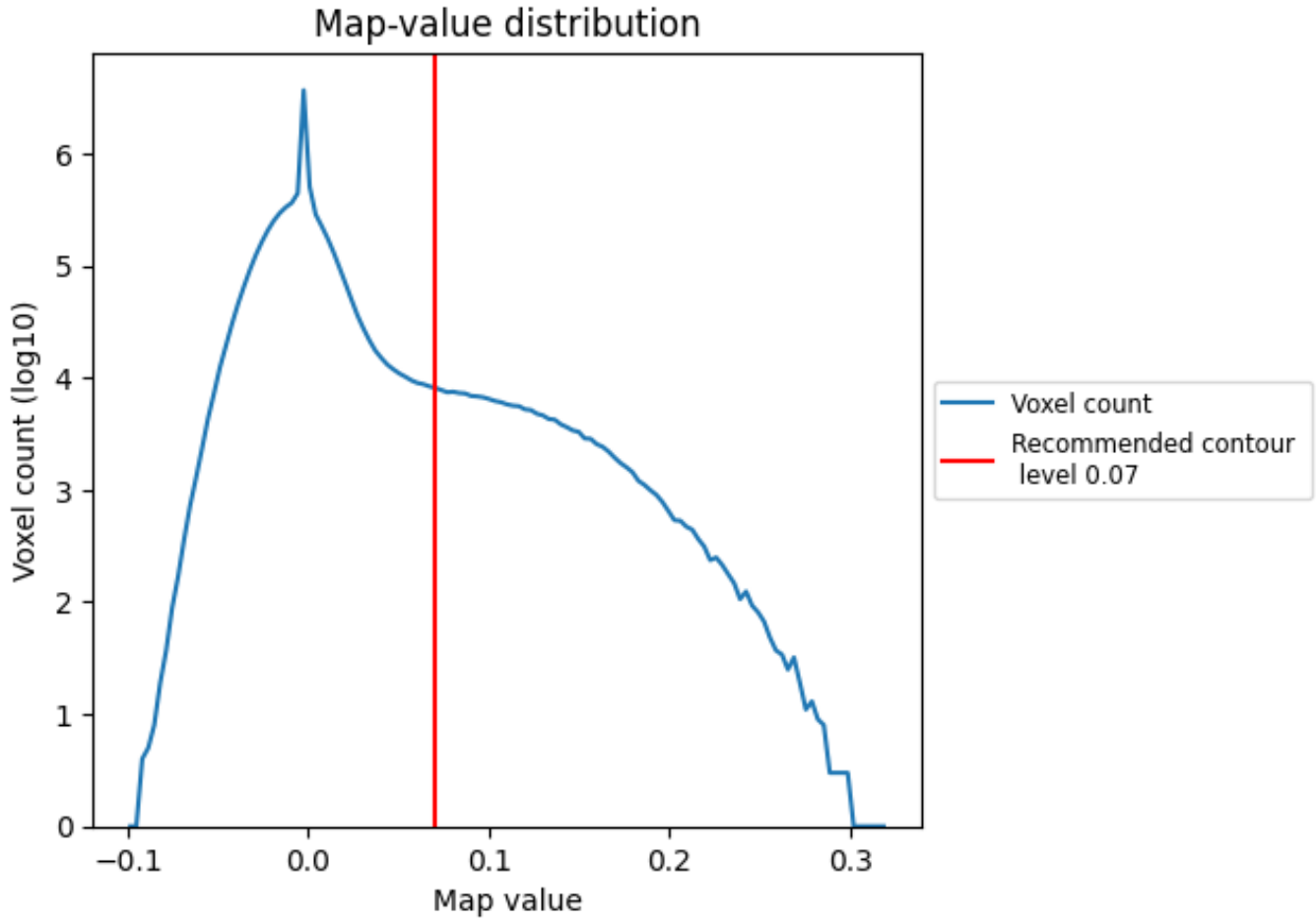
6.6 Mask visualisation (i)

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

7 Map analysis

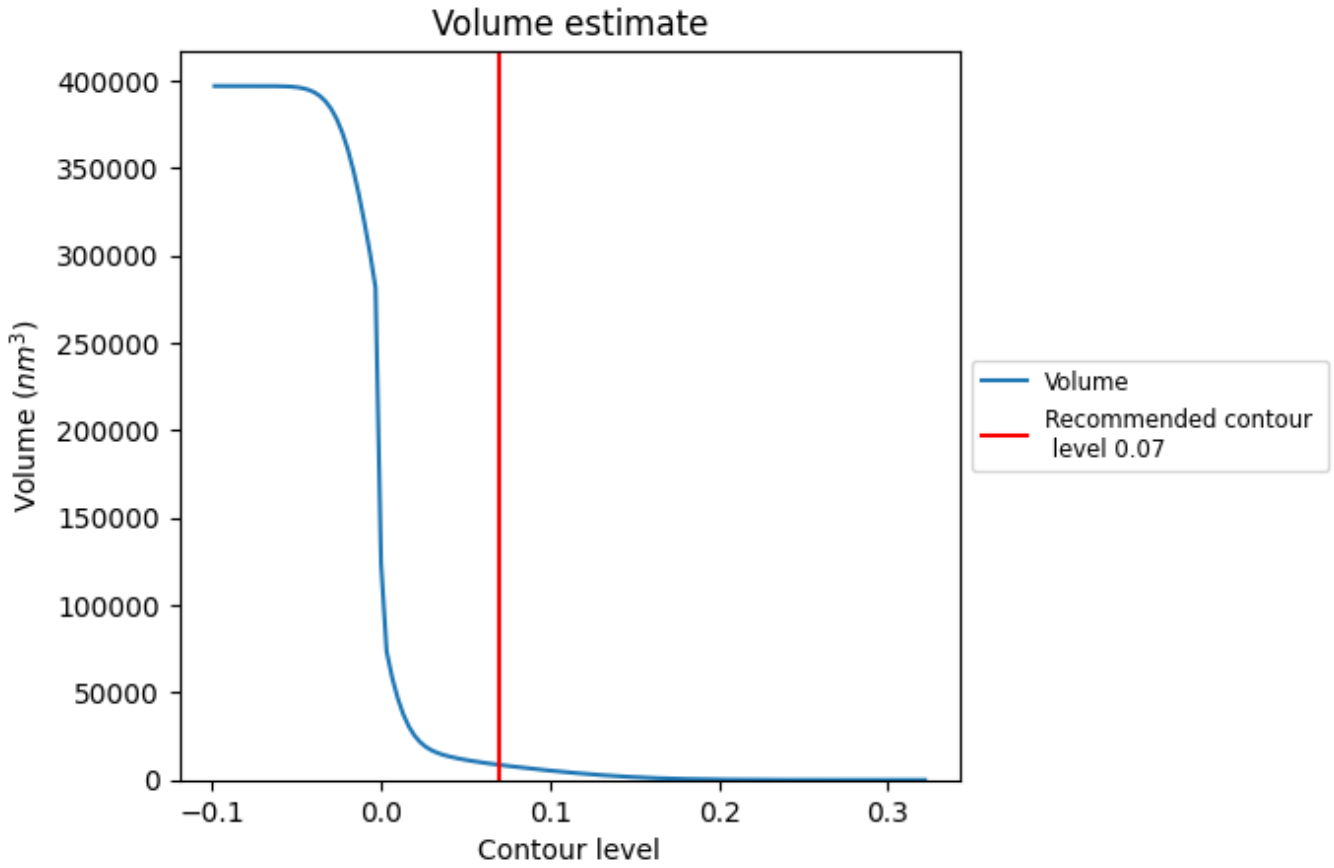
This section contains the results of statistical analysis of the map.

7.1 Map-value distribution



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.

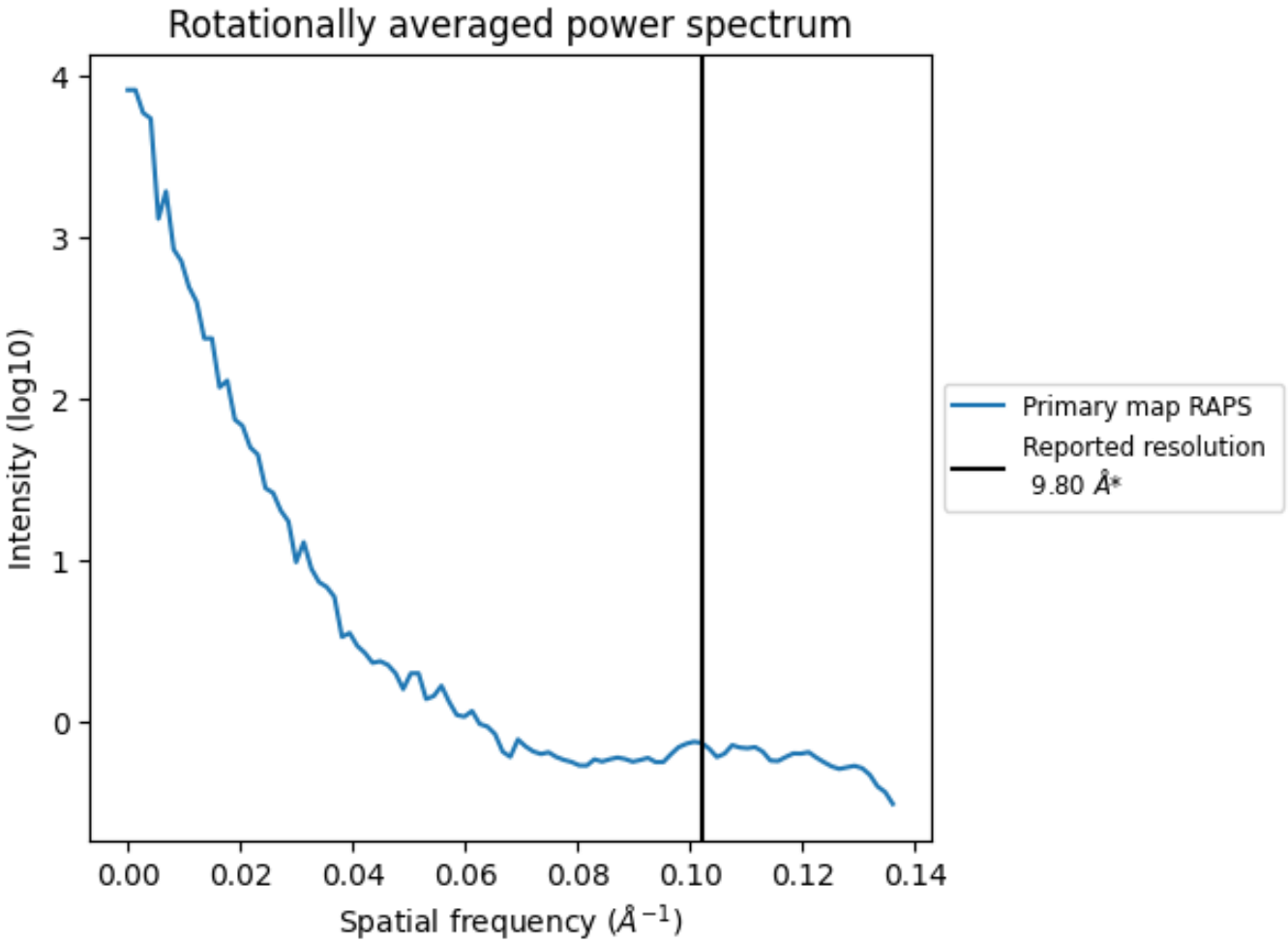
7.2 Volume estimate



The volume at the recommended contour level is 8639 nm^3; this corresponds to an approximate mass of 7804 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 (i)



*Reported resolution corresponds to spatial frequency of 0.102 Å^{-1}

8 Fourier-Shell correlation (i)

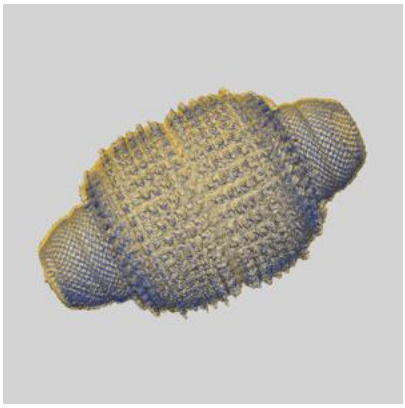
This section was not generated. No FSC curve or half-maps provided.

9 Map-model fit

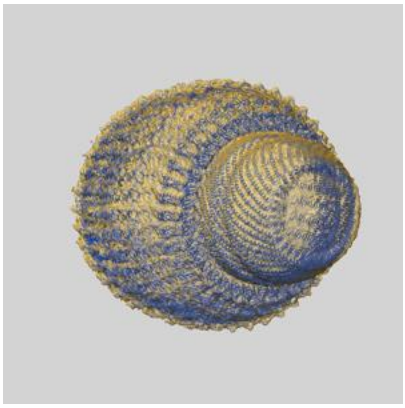
This section contains information regarding the fit between EMDB map EMD-13483 and PDB model 7PKZ. Per-residue inclusion information can be found in section 3 on page 25.

9.1 Map-model overlay

X



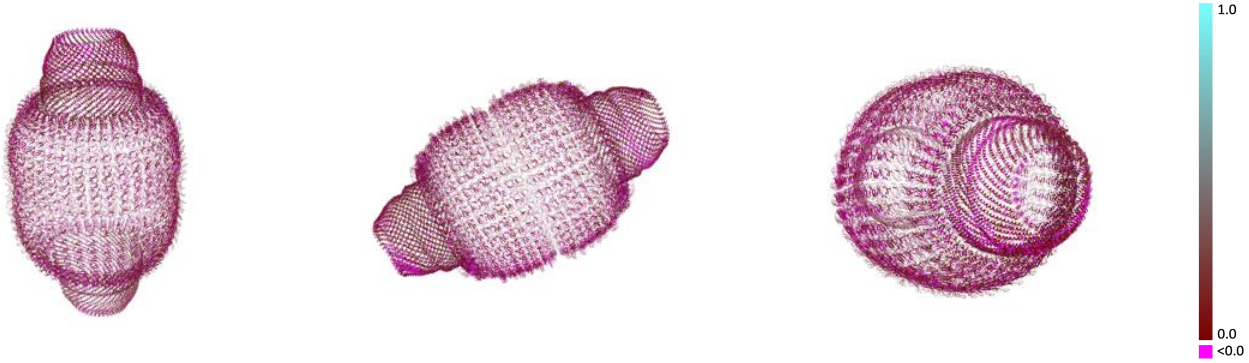
Y



Z

The images above show the 3D surface view of the map at the recommended contour level 0.07 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.

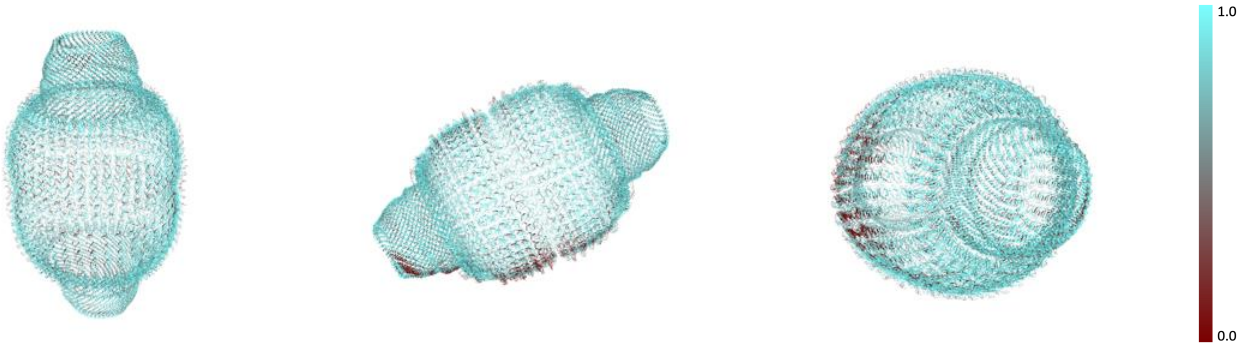
9.2 Q-score mapped to coordinate model (i)



X Y Z

The images above show the model with each residue coloured according 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.

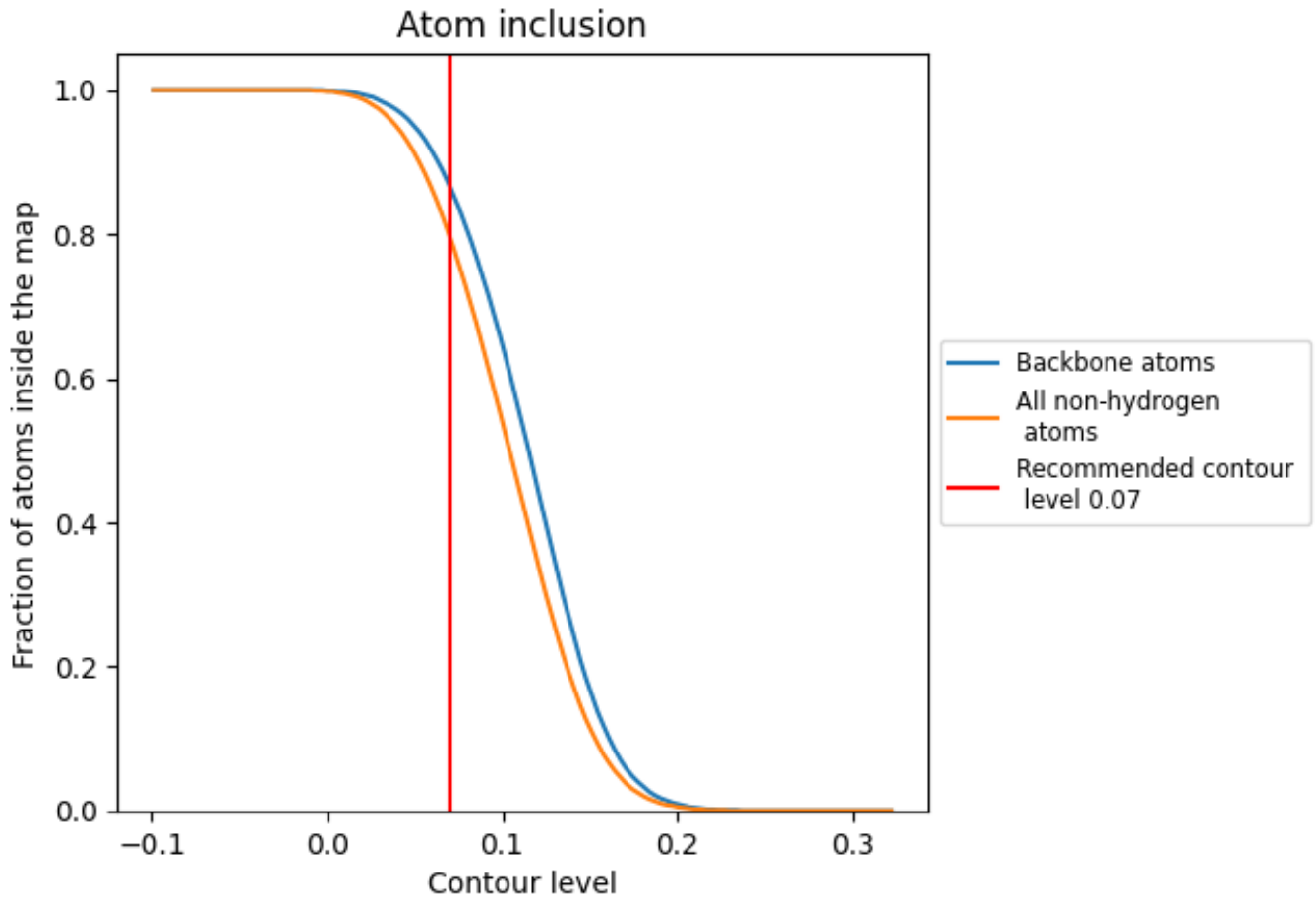
9.3 Atom inclusion mapped to coordinate model (i)



X Y Z

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 (0.07).

9.4 Atom inclusion (i)



At the recommended contour level, 87% of all backbone atoms, 80% 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 (0.07) and Q-score for the entire model and for each chain.

Chain	Atom inclusion	Q-score
All	0.7970	0.0830
A	0.7460	0.0900
AA	0.8600	0.1080
AB	0.7930	0.0780
AC	0.5600	0.0480
B	0.6180	0.0570
BA	0.7990	0.0950
BB	0.8550	0.0870
C	0.8290	0.0930
CA	0.8500	0.1030
CB	0.8490	0.0870
D	0.5900	0.0420
DA	0.8030	0.0950
DB	0.8520	0.0870
E	0.8370	0.0960
EA	0.8570	0.1020
EB	0.8420	0.0860
F	0.6180	0.0460
FA	0.8230	0.0940
FB	0.8550	0.0840
G	0.8460	0.0860
GA	0.8600	0.1020
GB	0.8040	0.0630
H	0.6500	0.0530
HA	0.8350	0.0930
HB	0.7330	0.0430
I	0.8500	0.0880
IA	0.8660	0.1040
IB	0.6880	0.0550
J	0.6790	0.0530
JA	0.8510	0.0970
JB	0.6790	0.0570
K	0.8490	0.0940
KA	0.8420	0.0950
KB	0.7390	0.0650

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Chain	Atom inclusion	Q-score
L	0.7590	0.0590
LA	0.8400	0.0970
LB	0.7960	0.0810
M	0.8550	0.0910
MA	0.8450	0.0970
MB	0.7140	0.0630
N	0.7960	0.0800
NA	0.8240	0.0920
NB	0.6560	0.0780
O	0.8620	0.1030
OA	0.8280	0.0890
OB	0.8220	0.0810
P	0.8190	0.0830
PA	0.8340	0.0810
PB	0.8620	0.1090
Q	0.8620	0.1120
QA	0.8530	0.1010
QB	0.8660	0.1050
R	0.8400	0.0930
RA	0.8550	0.0860
RB	0.8490	0.1000
S	0.8610	0.1080
SA	0.7680	0.0680
SB	0.8370	0.1000
T	0.8590	0.1070
TA	0.8540	0.0800
TB	0.8290	0.0940
UA	0.7430	0.0680
UB	0.7340	0.0530
V	0.8480	0.0980
VA	0.8490	0.0760
VB	0.7820	0.0700
W	0.8610	0.1060
WA	0.7160	0.0660
WB	0.7610	0.0570
X	0.8390	0.1030
XA	0.8430	0.0820
XB	0.7660	0.0570
Y	0.8600	0.1060
YA	0.7640	0.0740
YB	0.7070	0.0490
Z	0.8160	0.0940

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Chain	Atom inclusion	Q-score
ZA	0.8510	0.0860
ZB	0.5850	0.0380