Full wwPDB EM Validation Report

Sep 14, 2025 – 01:03 AM JST

PDB ID	:	9UJ0 / pdb_00009uj0
EMDB ID	:	EMD-64205
Title	:	Structure of Aegerolysin-L pore
Authors	:	Gao, P.; Zhao, C.Q.
Deposited on	:	2025-04-16
Resolution	:	3.81 Å(reported)

This is a Full wwPDB EM Validation Report for a publicly released PDB entry.

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

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

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

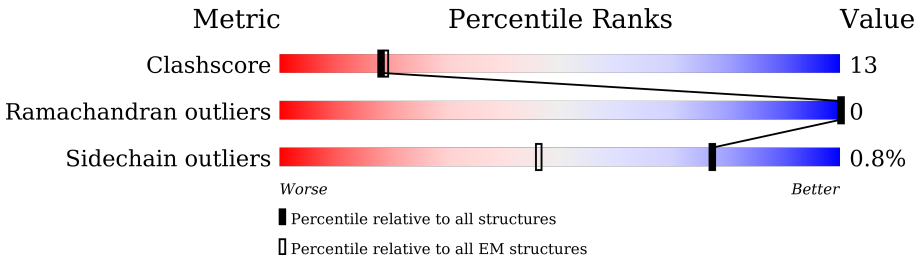
EMDB validation analysis	:	FAILED
MolProbity	:	4-5-2 with Phenix2.0rc1
Percentile statistics	:	20231227.v01 (using entries in the PDB archive December 27th 2023)
MapQ	:	FAILED
Ideal geometry (proteins)	:	Engh & Huber (2001)
Ideal geometry (DNA, RNA)	:	Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP)	:	2.45.1

1 Overall quality at a glance

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

The reported resolution of this entry is 3.81 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	210492	15764
Ramachandran outliers	207382	16835
Sidechain outliers	206894	16415

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%

Mol	Chain	Length	Quality of chain
1	A	488	69% 22% 8%
1	B	488	70% 22% 8%
1	C	488	69% 22% 8%
1	D	488	70% 22% 8%
1	E	488	69% 23% 8%
1	F	488	70% 22% 8%
1	G	488	69% 23% 8%
1	H	488	70% 22% 8%
1	I	488	69% 23% 8%

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Mol	Chain	Length	Quality of chain
1	J	488	70% 22% 8%
1	K	488	69% 23% 8%
1	L	488	70% 22% 8%
1	M	488	69% 23% 8%
1	N	488	69% 23% 8%
1	O	488	68% 24% 8%
1	P	488	70% 22% 8%
1	Q	488	71% 21% 8%
1	R	488	69% 22% 8%
1	a	488	70% 22% 8%
1	b	488	69% 23% 8%
1	c	488	70% 22% 8%
1	d	488	69% 23% 8%
1	e	488	69% 22% 8%
1	f	488	68% 23% 8%
1	g	488	69% 22% 8%
1	h	488	69% 23% 8%
1	i	488	69% 23% 8%
1	j	488	69% 23% 8%
1	k	488	69% 23% 8%
1	l	488	69% 22% 8%
1	m	488	68% 24% 8%
1	n	488	69% 23% 8%
1	o	488	69% 23% 8%
1	p	488	70% 22% 8%

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Mol	Chain	Length	Quality of chain
1	q	488	
1	r	488	

2 Entry composition (i)

There is only 1 type of molecule in this entry. The entry contains 130464 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 Aeg-L.

Mol	Chain	Residues	Atoms					AltConf	Trace
1	A	449	Total 3624	C 2315	N 601	O 698	S 10	0	0
1	B	449	Total 3624	C 2315	N 601	O 698	S 10	0	0
1	C	449	Total 3624	C 2315	N 601	O 698	S 10	0	0
1	D	449	Total 3624	C 2315	N 601	O 698	S 10	0	0
1	E	449	Total 3624	C 2315	N 601	O 698	S 10	0	0
1	F	449	Total 3624	C 2315	N 601	O 698	S 10	0	0
1	G	449	Total 3624	C 2315	N 601	O 698	S 10	0	0
1	H	449	Total 3624	C 2315	N 601	O 698	S 10	0	0
1	I	449	Total 3624	C 2315	N 601	O 698	S 10	0	0
1	J	449	Total 3624	C 2315	N 601	O 698	S 10	0	0
1	K	449	Total 3624	C 2315	N 601	O 698	S 10	0	0
1	L	449	Total 3624	C 2315	N 601	O 698	S 10	0	0
1	M	449	Total 3624	C 2315	N 601	O 698	S 10	0	0
1	N	449	Total 3624	C 2315	N 601	O 698	S 10	0	0
1	O	449	Total 3624	C 2315	N 601	O 698	S 10	0	0
1	P	449	Total 3624	C 2315	N 601	O 698	S 10	0	0
1	Q	449	Total 3624	C 2315	N 601	O 698	S 10	0	0

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Mol	Chain	Residues	Atoms					AltConf	Trace
1	R	449	Total 3624	C 2315	N 601	O 698	S 10	0	0
1	a	449	Total 3624	C 2315	N 601	O 698	S 10	0	0
1	b	449	Total 3624	C 2315	N 601	O 698	S 10	0	0
1	c	449	Total 3624	C 2315	N 601	O 698	S 10	0	0
1	d	449	Total 3624	C 2315	N 601	O 698	S 10	0	0
1	e	449	Total 3624	C 2315	N 601	O 698	S 10	0	0
1	f	449	Total 3624	C 2315	N 601	O 698	S 10	0	0
1	g	449	Total 3624	C 2315	N 601	O 698	S 10	0	0
1	h	449	Total 3624	C 2315	N 601	O 698	S 10	0	0
1	i	449	Total 3624	C 2315	N 601	O 698	S 10	0	0
1	j	449	Total 3624	C 2315	N 601	O 698	S 10	0	0
1	k	449	Total 3624	C 2315	N 601	O 698	S 10	0	0
1	l	449	Total 3624	C 2315	N 601	O 698	S 10	0	0
1	m	449	Total 3624	C 2315	N 601	O 698	S 10	0	0
1	n	449	Total 3624	C 2315	N 601	O 698	S 10	0	0
1	o	449	Total 3624	C 2315	N 601	O 698	S 10	0	0
1	p	449	Total 3624	C 2315	N 601	O 698	S 10	0	0
1	q	449	Total 3624	C 2315	N 601	O 698	S 10	0	0
1	r	449	Total 3624	C 2315	N 601	O 698	S 10	0	0

There are 288 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
A	204	LEU	-	linker	UNP A0AB39ISW4

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Chain	Residue	Modelled	Actual	Comment	Reference
A	205	GLU	-	linker	UNP A0AB39ISW4
A	206	VAL	-	linker	UNP A0AB39ISW4
A	207	LEU	-	linker	UNP A0AB39ISW4
A	208	PHE	-	linker	UNP A0AB39ISW4
A	209	GLN	-	linker	UNP A0AB39ISW4
A	210	GLY	-	linker	UNP A0AB39ISW4
A	211	PRO	-	linker	UNP A0AB39ISW4
B	204	LEU	-	linker	UNP A0AB39ISW4
B	205	GLU	-	linker	UNP A0AB39ISW4
B	206	VAL	-	linker	UNP A0AB39ISW4
B	207	LEU	-	linker	UNP A0AB39ISW4
B	208	PHE	-	linker	UNP A0AB39ISW4
B	209	GLN	-	linker	UNP A0AB39ISW4
B	210	GLY	-	linker	UNP A0AB39ISW4
B	211	PRO	-	linker	UNP A0AB39ISW4
C	204	LEU	-	linker	UNP A0AB39ISW4
C	205	GLU	-	linker	UNP A0AB39ISW4
C	206	VAL	-	linker	UNP A0AB39ISW4
C	207	LEU	-	linker	UNP A0AB39ISW4
C	208	PHE	-	linker	UNP A0AB39ISW4
C	209	GLN	-	linker	UNP A0AB39ISW4
C	210	GLY	-	linker	UNP A0AB39ISW4
C	211	PRO	-	linker	UNP A0AB39ISW4
D	204	LEU	-	linker	UNP A0AB39ISW4
D	205	GLU	-	linker	UNP A0AB39ISW4
D	206	VAL	-	linker	UNP A0AB39ISW4
D	207	LEU	-	linker	UNP A0AB39ISW4
D	208	PHE	-	linker	UNP A0AB39ISW4
D	209	GLN	-	linker	UNP A0AB39ISW4
D	210	GLY	-	linker	UNP A0AB39ISW4
D	211	PRO	-	linker	UNP A0AB39ISW4
E	204	LEU	-	linker	UNP A0AB39ISW4
E	205	GLU	-	linker	UNP A0AB39ISW4
E	206	VAL	-	linker	UNP A0AB39ISW4
E	207	LEU	-	linker	UNP A0AB39ISW4
E	208	PHE	-	linker	UNP A0AB39ISW4
E	209	GLN	-	linker	UNP A0AB39ISW4
E	210	GLY	-	linker	UNP A0AB39ISW4
E	211	PRO	-	linker	UNP A0AB39ISW4
F	204	LEU	-	linker	UNP A0AB39ISW4
F	205	GLU	-	linker	UNP A0AB39ISW4
F	206	VAL	-	linker	UNP A0AB39ISW4

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Chain	Residue	Modelled	Actual	Comment	Reference
F	207	LEU	-	linker	UNP A0AB39ISW4
F	208	PHE	-	linker	UNP A0AB39ISW4
F	209	GLN	-	linker	UNP A0AB39ISW4
F	210	GLY	-	linker	UNP A0AB39ISW4
F	211	PRO	-	linker	UNP A0AB39ISW4
G	204	LEU	-	linker	UNP A0AB39ISW4
G	205	GLU	-	linker	UNP A0AB39ISW4
G	206	VAL	-	linker	UNP A0AB39ISW4
G	207	LEU	-	linker	UNP A0AB39ISW4
G	208	PHE	-	linker	UNP A0AB39ISW4
G	209	GLN	-	linker	UNP A0AB39ISW4
G	210	GLY	-	linker	UNP A0AB39ISW4
G	211	PRO	-	linker	UNP A0AB39ISW4
H	204	LEU	-	linker	UNP A0AB39ISW4
H	205	GLU	-	linker	UNP A0AB39ISW4
H	206	VAL	-	linker	UNP A0AB39ISW4
H	207	LEU	-	linker	UNP A0AB39ISW4
H	208	PHE	-	linker	UNP A0AB39ISW4
H	209	GLN	-	linker	UNP A0AB39ISW4
H	210	GLY	-	linker	UNP A0AB39ISW4
H	211	PRO	-	linker	UNP A0AB39ISW4
I	204	LEU	-	linker	UNP A0AB39ISW4
I	205	GLU	-	linker	UNP A0AB39ISW4
I	206	VAL	-	linker	UNP A0AB39ISW4
I	207	LEU	-	linker	UNP A0AB39ISW4
I	208	PHE	-	linker	UNP A0AB39ISW4
I	209	GLN	-	linker	UNP A0AB39ISW4
I	210	GLY	-	linker	UNP A0AB39ISW4
I	211	PRO	-	linker	UNP A0AB39ISW4
J	204	LEU	-	linker	UNP A0AB39ISW4
J	205	GLU	-	linker	UNP A0AB39ISW4
J	206	VAL	-	linker	UNP A0AB39ISW4
J	207	LEU	-	linker	UNP A0AB39ISW4
J	208	PHE	-	linker	UNP A0AB39ISW4
J	209	GLN	-	linker	UNP A0AB39ISW4
J	210	GLY	-	linker	UNP A0AB39ISW4
J	211	PRO	-	linker	UNP A0AB39ISW4
K	204	LEU	-	linker	UNP A0AB39ISW4
K	205	GLU	-	linker	UNP A0AB39ISW4
K	206	VAL	-	linker	UNP A0AB39ISW4
K	207	LEU	-	linker	UNP A0AB39ISW4
K	208	PHE	-	linker	UNP A0AB39ISW4

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Chain	Residue	Modelled	Actual	Comment	Reference
K	209	GLN	-	linker	UNP A0AB39ISW4
K	210	GLY	-	linker	UNP A0AB39ISW4
K	211	PRO	-	linker	UNP A0AB39ISW4
L	204	LEU	-	linker	UNP A0AB39ISW4
L	205	GLU	-	linker	UNP A0AB39ISW4
L	206	VAL	-	linker	UNP A0AB39ISW4
L	207	LEU	-	linker	UNP A0AB39ISW4
L	208	PHE	-	linker	UNP A0AB39ISW4
L	209	GLN	-	linker	UNP A0AB39ISW4
L	210	GLY	-	linker	UNP A0AB39ISW4
L	211	PRO	-	linker	UNP A0AB39ISW4
M	204	LEU	-	linker	UNP A0AB39ISW4
M	205	GLU	-	linker	UNP A0AB39ISW4
M	206	VAL	-	linker	UNP A0AB39ISW4
M	207	LEU	-	linker	UNP A0AB39ISW4
M	208	PHE	-	linker	UNP A0AB39ISW4
M	209	GLN	-	linker	UNP A0AB39ISW4
M	210	GLY	-	linker	UNP A0AB39ISW4
M	211	PRO	-	linker	UNP A0AB39ISW4
N	204	LEU	-	linker	UNP A0AB39ISW4
N	205	GLU	-	linker	UNP A0AB39ISW4
N	206	VAL	-	linker	UNP A0AB39ISW4
N	207	LEU	-	linker	UNP A0AB39ISW4
N	208	PHE	-	linker	UNP A0AB39ISW4
N	209	GLN	-	linker	UNP A0AB39ISW4
N	210	GLY	-	linker	UNP A0AB39ISW4
N	211	PRO	-	linker	UNP A0AB39ISW4
O	204	LEU	-	linker	UNP A0AB39ISW4
O	205	GLU	-	linker	UNP A0AB39ISW4
O	206	VAL	-	linker	UNP A0AB39ISW4
O	207	LEU	-	linker	UNP A0AB39ISW4
O	208	PHE	-	linker	UNP A0AB39ISW4
O	209	GLN	-	linker	UNP A0AB39ISW4
O	210	GLY	-	linker	UNP A0AB39ISW4
O	211	PRO	-	linker	UNP A0AB39ISW4
P	204	LEU	-	linker	UNP A0AB39ISW4
P	205	GLU	-	linker	UNP A0AB39ISW4
P	206	VAL	-	linker	UNP A0AB39ISW4
P	207	LEU	-	linker	UNP A0AB39ISW4
P	208	PHE	-	linker	UNP A0AB39ISW4
P	209	GLN	-	linker	UNP A0AB39ISW4
P	210	GLY	-	linker	UNP A0AB39ISW4

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Chain	Residue	Modelled	Actual	Comment	Reference
P	211	PRO	-	linker	UNP A0AB39ISW4
Q	204	LEU	-	linker	UNP A0AB39ISW4
Q	205	GLU	-	linker	UNP A0AB39ISW4
Q	206	VAL	-	linker	UNP A0AB39ISW4
Q	207	LEU	-	linker	UNP A0AB39ISW4
Q	208	PHE	-	linker	UNP A0AB39ISW4
Q	209	GLN	-	linker	UNP A0AB39ISW4
Q	210	GLY	-	linker	UNP A0AB39ISW4
Q	211	PRO	-	linker	UNP A0AB39ISW4
R	204	LEU	-	linker	UNP A0AB39ISW4
R	205	GLU	-	linker	UNP A0AB39ISW4
R	206	VAL	-	linker	UNP A0AB39ISW4
R	207	LEU	-	linker	UNP A0AB39ISW4
R	208	PHE	-	linker	UNP A0AB39ISW4
R	209	GLN	-	linker	UNP A0AB39ISW4
R	210	GLY	-	linker	UNP A0AB39ISW4
R	211	PRO	-	linker	UNP A0AB39ISW4
a	204	LEU	-	linker	UNP A0AB39ISW4
a	205	GLU	-	linker	UNP A0AB39ISW4
a	206	VAL	-	linker	UNP A0AB39ISW4
a	207	LEU	-	linker	UNP A0AB39ISW4
a	208	PHE	-	linker	UNP A0AB39ISW4
a	209	GLN	-	linker	UNP A0AB39ISW4
a	210	GLY	-	linker	UNP A0AB39ISW4
a	211	PRO	-	linker	UNP A0AB39ISW4
b	204	LEU	-	linker	UNP A0AB39ISW4
b	205	GLU	-	linker	UNP A0AB39ISW4
b	206	VAL	-	linker	UNP A0AB39ISW4
b	207	LEU	-	linker	UNP A0AB39ISW4
b	208	PHE	-	linker	UNP A0AB39ISW4
b	209	GLN	-	linker	UNP A0AB39ISW4
b	210	GLY	-	linker	UNP A0AB39ISW4
b	211	PRO	-	linker	UNP A0AB39ISW4
c	204	LEU	-	linker	UNP A0AB39ISW4
c	205	GLU	-	linker	UNP A0AB39ISW4
c	206	VAL	-	linker	UNP A0AB39ISW4
c	207	LEU	-	linker	UNP A0AB39ISW4
c	208	PHE	-	linker	UNP A0AB39ISW4
c	209	GLN	-	linker	UNP A0AB39ISW4
c	210	GLY	-	linker	UNP A0AB39ISW4
c	211	PRO	-	linker	UNP A0AB39ISW4
d	204	LEU	-	linker	UNP A0AB39ISW4

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Chain	Residue	Modelled	Actual	Comment	Reference
d	205	GLU	-	linker	UNP A0AB39ISW4
d	206	VAL	-	linker	UNP A0AB39ISW4
d	207	LEU	-	linker	UNP A0AB39ISW4
d	208	PHE	-	linker	UNP A0AB39ISW4
d	209	GLN	-	linker	UNP A0AB39ISW4
d	210	GLY	-	linker	UNP A0AB39ISW4
d	211	PRO	-	linker	UNP A0AB39ISW4
e	204	LEU	-	linker	UNP A0AB39ISW4
e	205	GLU	-	linker	UNP A0AB39ISW4
e	206	VAL	-	linker	UNP A0AB39ISW4
e	207	LEU	-	linker	UNP A0AB39ISW4
e	208	PHE	-	linker	UNP A0AB39ISW4
e	209	GLN	-	linker	UNP A0AB39ISW4
e	210	GLY	-	linker	UNP A0AB39ISW4
e	211	PRO	-	linker	UNP A0AB39ISW4
f	204	LEU	-	linker	UNP A0AB39ISW4
f	205	GLU	-	linker	UNP A0AB39ISW4
f	206	VAL	-	linker	UNP A0AB39ISW4
f	207	LEU	-	linker	UNP A0AB39ISW4
f	208	PHE	-	linker	UNP A0AB39ISW4
f	209	GLN	-	linker	UNP A0AB39ISW4
f	210	GLY	-	linker	UNP A0AB39ISW4
f	211	PRO	-	linker	UNP A0AB39ISW4
g	204	LEU	-	linker	UNP A0AB39ISW4
g	205	GLU	-	linker	UNP A0AB39ISW4
g	206	VAL	-	linker	UNP A0AB39ISW4
g	207	LEU	-	linker	UNP A0AB39ISW4
g	208	PHE	-	linker	UNP A0AB39ISW4
g	209	GLN	-	linker	UNP A0AB39ISW4
g	210	GLY	-	linker	UNP A0AB39ISW4
g	211	PRO	-	linker	UNP A0AB39ISW4
h	204	LEU	-	linker	UNP A0AB39ISW4
h	205	GLU	-	linker	UNP A0AB39ISW4
h	206	VAL	-	linker	UNP A0AB39ISW4
h	207	LEU	-	linker	UNP A0AB39ISW4
h	208	PHE	-	linker	UNP A0AB39ISW4
h	209	GLN	-	linker	UNP A0AB39ISW4
h	210	GLY	-	linker	UNP A0AB39ISW4
h	211	PRO	-	linker	UNP A0AB39ISW4
i	204	LEU	-	linker	UNP A0AB39ISW4
i	205	GLU	-	linker	UNP A0AB39ISW4
i	206	VAL	-	linker	UNP A0AB39ISW4

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Chain	Residue	Modelled	Actual	Comment	Reference
i	207	LEU	-	linker	UNP A0AB39ISW4
i	208	PHE	-	linker	UNP A0AB39ISW4
i	209	GLN	-	linker	UNP A0AB39ISW4
i	210	GLY	-	linker	UNP A0AB39ISW4
i	211	PRO	-	linker	UNP A0AB39ISW4
j	204	LEU	-	linker	UNP A0AB39ISW4
j	205	GLU	-	linker	UNP A0AB39ISW4
j	206	VAL	-	linker	UNP A0AB39ISW4
j	207	LEU	-	linker	UNP A0AB39ISW4
j	208	PHE	-	linker	UNP A0AB39ISW4
j	209	GLN	-	linker	UNP A0AB39ISW4
j	210	GLY	-	linker	UNP A0AB39ISW4
j	211	PRO	-	linker	UNP A0AB39ISW4
k	204	LEU	-	linker	UNP A0AB39ISW4
k	205	GLU	-	linker	UNP A0AB39ISW4
k	206	VAL	-	linker	UNP A0AB39ISW4
k	207	LEU	-	linker	UNP A0AB39ISW4
k	208	PHE	-	linker	UNP A0AB39ISW4
k	209	GLN	-	linker	UNP A0AB39ISW4
k	210	GLY	-	linker	UNP A0AB39ISW4
k	211	PRO	-	linker	UNP A0AB39ISW4
l	204	LEU	-	linker	UNP A0AB39ISW4
l	205	GLU	-	linker	UNP A0AB39ISW4
l	206	VAL	-	linker	UNP A0AB39ISW4
l	207	LEU	-	linker	UNP A0AB39ISW4
l	208	PHE	-	linker	UNP A0AB39ISW4
l	209	GLN	-	linker	UNP A0AB39ISW4
l	210	GLY	-	linker	UNP A0AB39ISW4
l	211	PRO	-	linker	UNP A0AB39ISW4
m	204	LEU	-	linker	UNP A0AB39ISW4
m	205	GLU	-	linker	UNP A0AB39ISW4
m	206	VAL	-	linker	UNP A0AB39ISW4
m	207	LEU	-	linker	UNP A0AB39ISW4
m	208	PHE	-	linker	UNP A0AB39ISW4
m	209	GLN	-	linker	UNP A0AB39ISW4
m	210	GLY	-	linker	UNP A0AB39ISW4
m	211	PRO	-	linker	UNP A0AB39ISW4
n	204	LEU	-	linker	UNP A0AB39ISW4
n	205	GLU	-	linker	UNP A0AB39ISW4
n	206	VAL	-	linker	UNP A0AB39ISW4
n	207	LEU	-	linker	UNP A0AB39ISW4
n	208	PHE	-	linker	UNP A0AB39ISW4

Continued on next page...

Continued from previous page...

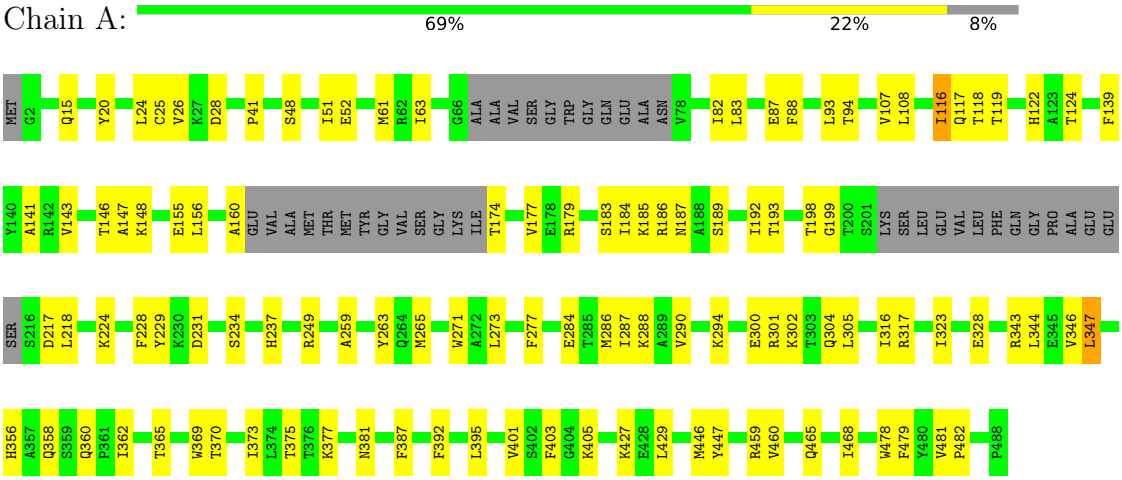
Chain	Residue	Modelled	Actual	Comment	Reference
n	209	GLN	-	linker	UNP A0AB39ISW4
n	210	GLY	-	linker	UNP A0AB39ISW4
n	211	PRO	-	linker	UNP A0AB39ISW4
o	204	LEU	-	linker	UNP A0AB39ISW4
o	205	GLU	-	linker	UNP A0AB39ISW4
o	206	VAL	-	linker	UNP A0AB39ISW4
o	207	LEU	-	linker	UNP A0AB39ISW4
o	208	PHE	-	linker	UNP A0AB39ISW4
o	209	GLN	-	linker	UNP A0AB39ISW4
o	210	GLY	-	linker	UNP A0AB39ISW4
o	211	PRO	-	linker	UNP A0AB39ISW4
p	204	LEU	-	linker	UNP A0AB39ISW4
p	205	GLU	-	linker	UNP A0AB39ISW4
p	206	VAL	-	linker	UNP A0AB39ISW4
p	207	LEU	-	linker	UNP A0AB39ISW4
p	208	PHE	-	linker	UNP A0AB39ISW4
p	209	GLN	-	linker	UNP A0AB39ISW4
p	210	GLY	-	linker	UNP A0AB39ISW4
p	211	PRO	-	linker	UNP A0AB39ISW4
q	204	LEU	-	linker	UNP A0AB39ISW4
q	205	GLU	-	linker	UNP A0AB39ISW4
q	206	VAL	-	linker	UNP A0AB39ISW4
q	207	LEU	-	linker	UNP A0AB39ISW4
q	208	PHE	-	linker	UNP A0AB39ISW4
q	209	GLN	-	linker	UNP A0AB39ISW4
q	210	GLY	-	linker	UNP A0AB39ISW4
q	211	PRO	-	linker	UNP A0AB39ISW4
r	204	LEU	-	linker	UNP A0AB39ISW4
r	205	GLU	-	linker	UNP A0AB39ISW4
r	206	VAL	-	linker	UNP A0AB39ISW4
r	207	LEU	-	linker	UNP A0AB39ISW4
r	208	PHE	-	linker	UNP A0AB39ISW4
r	209	GLN	-	linker	UNP A0AB39ISW4
r	210	GLY	-	linker	UNP A0AB39ISW4
r	211	PRO	-	linker	UNP A0AB39ISW4

3 Residue-property plots (i)

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

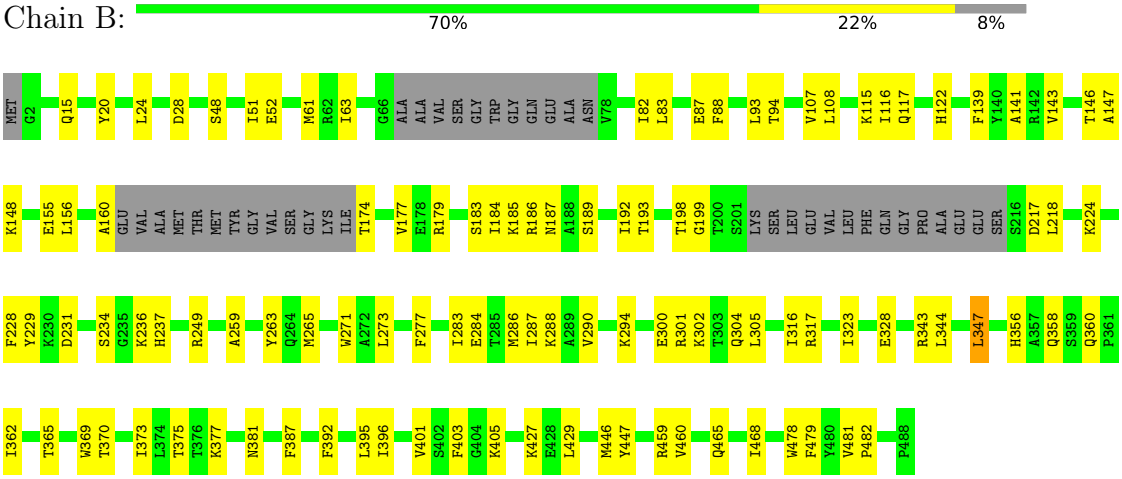
• Molecule 1: Aeg-L

Chain A:



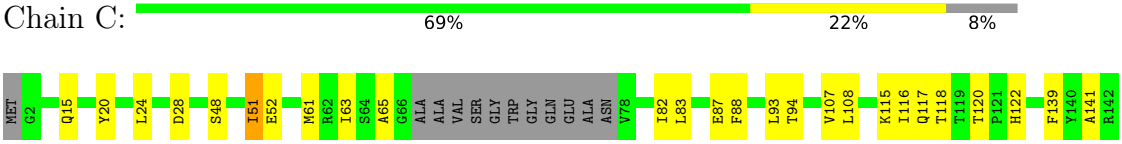
• Molecule 1: Aeg-L

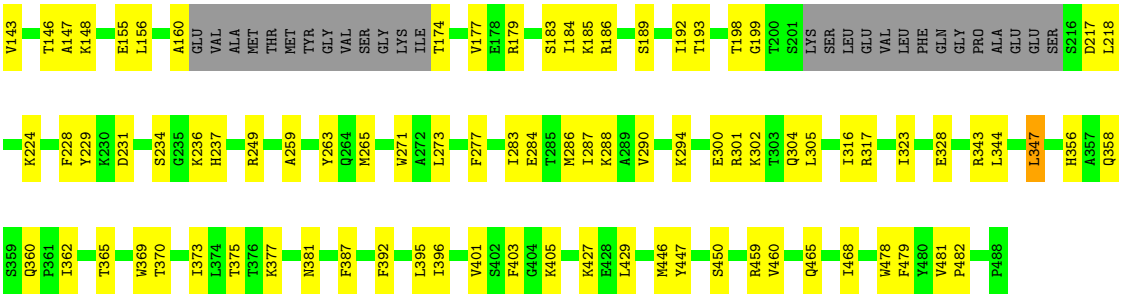
Chain B:



• Molecule 1: Aeg-L

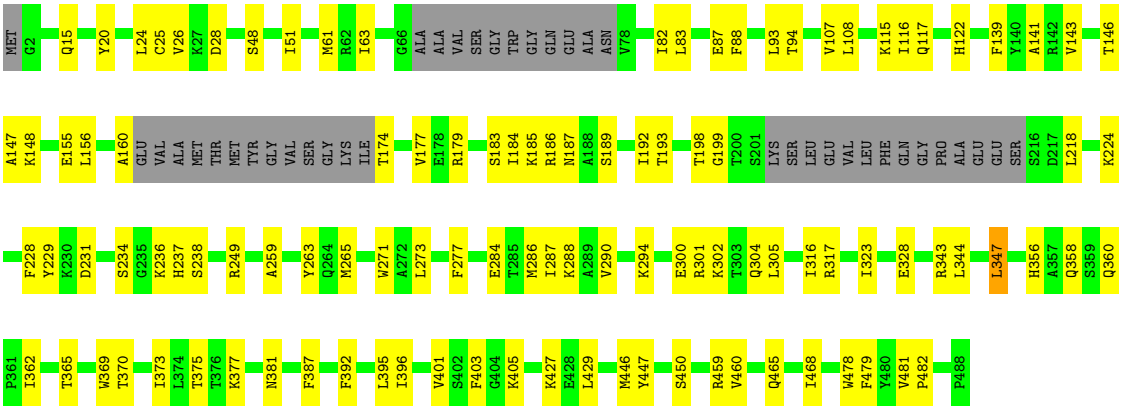
Chain C:





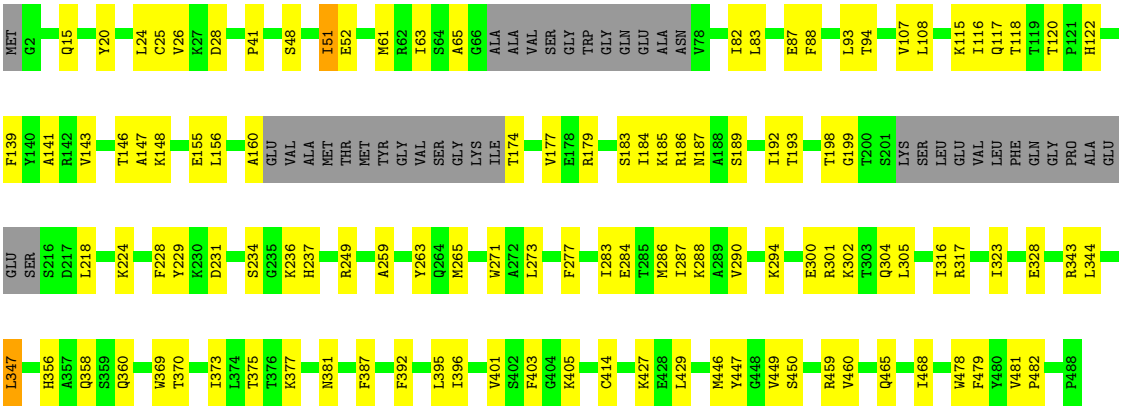
• Molecule 1: Aeg-L

Chain D:



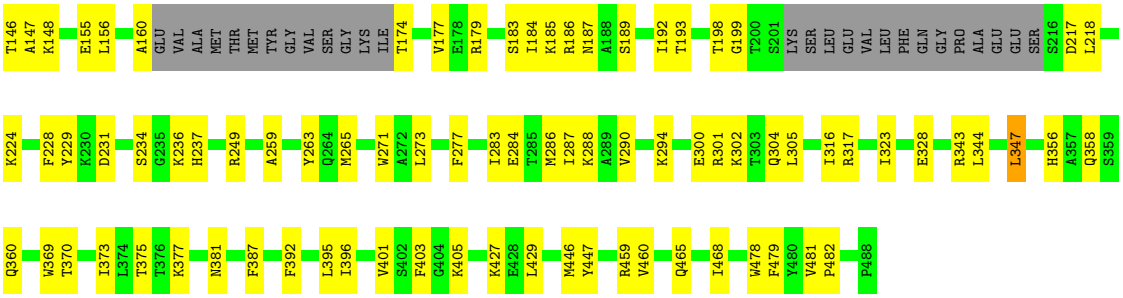
• Molecule 1: Aeg-L

Chain E:



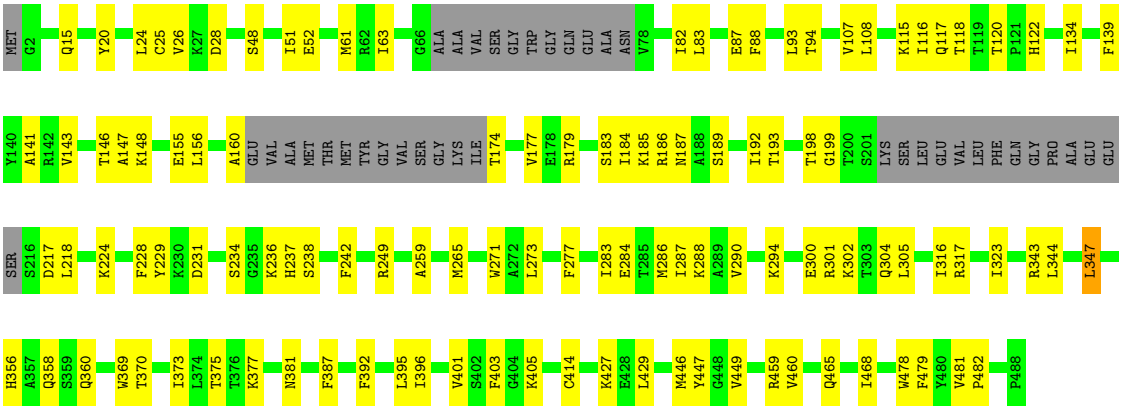
• Molecule 1: Aeg-L

Chain F:



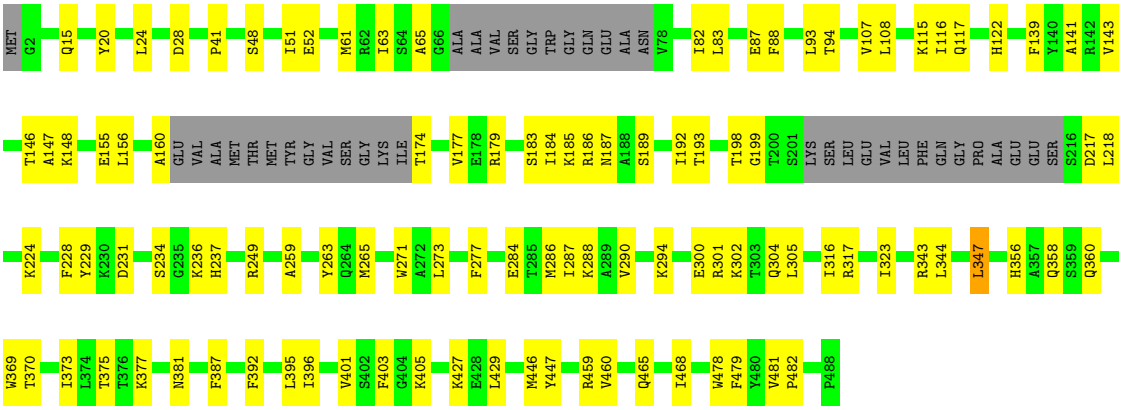
• Molecule 1: Aeg-L

Chain G:



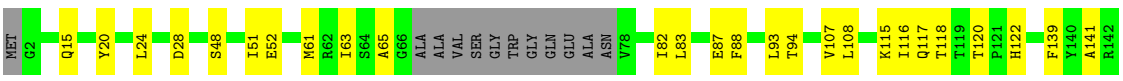
• Molecule 1: Aeg-L

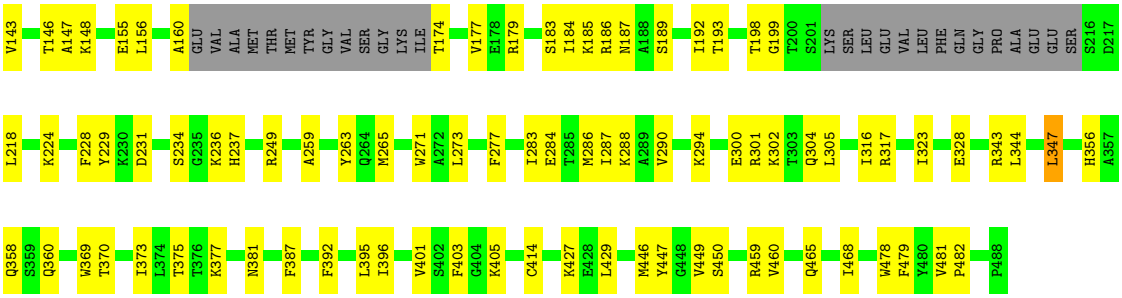
Chain H:



• Molecule 1: Aeg-L

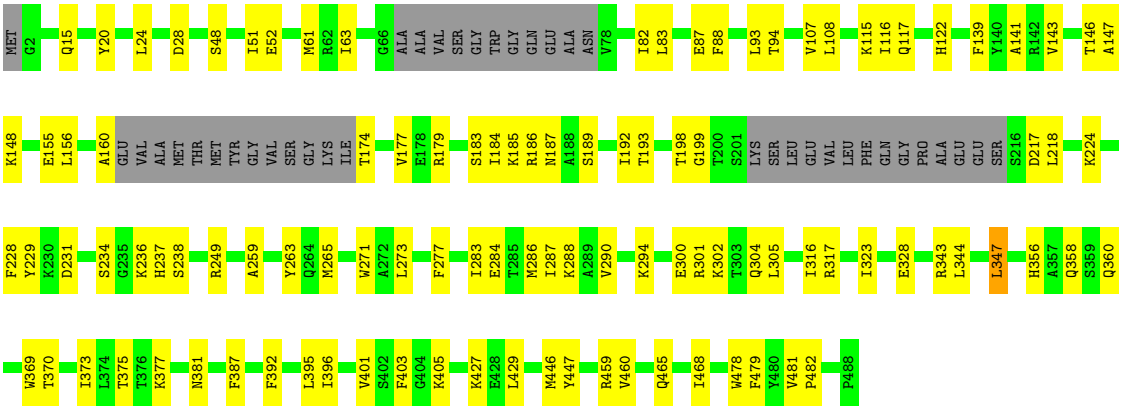
Chain I:





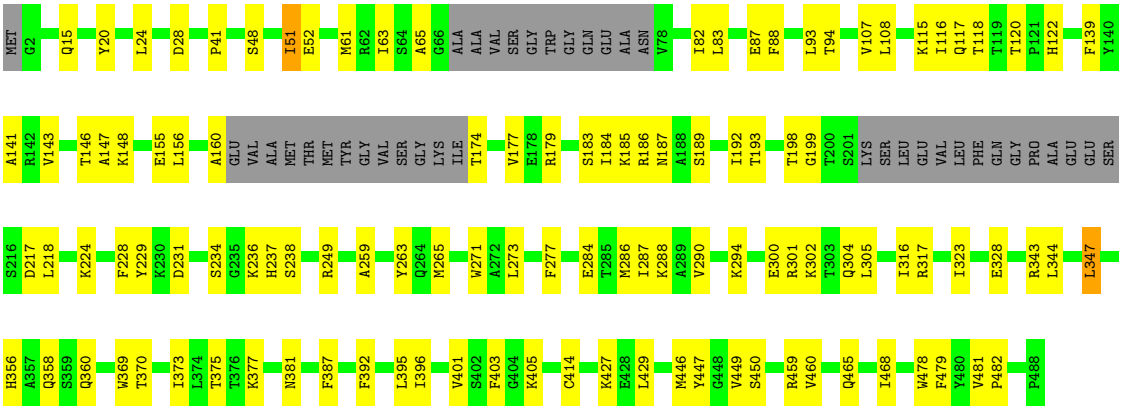
• Molecule 1: Aeg-L

Chain J:



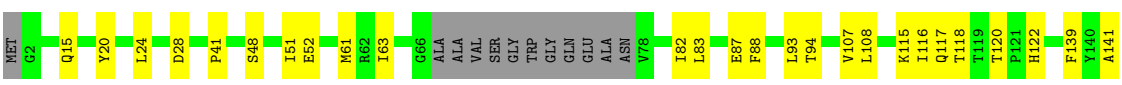
• Molecule 1: Aeg-L

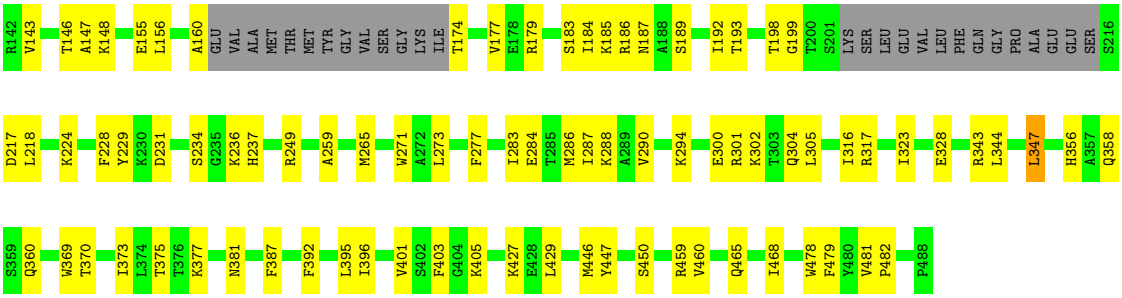
Chain K:



• Molecule 1: Aeg-L

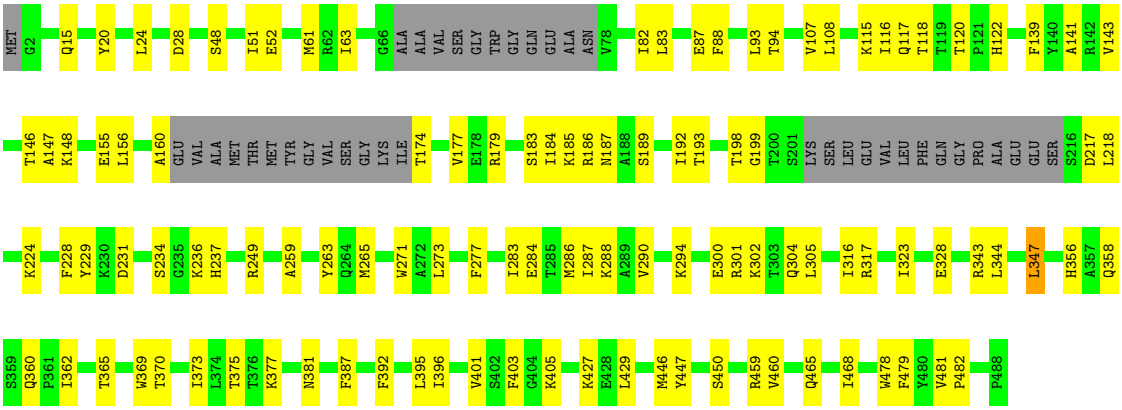
Chain L:





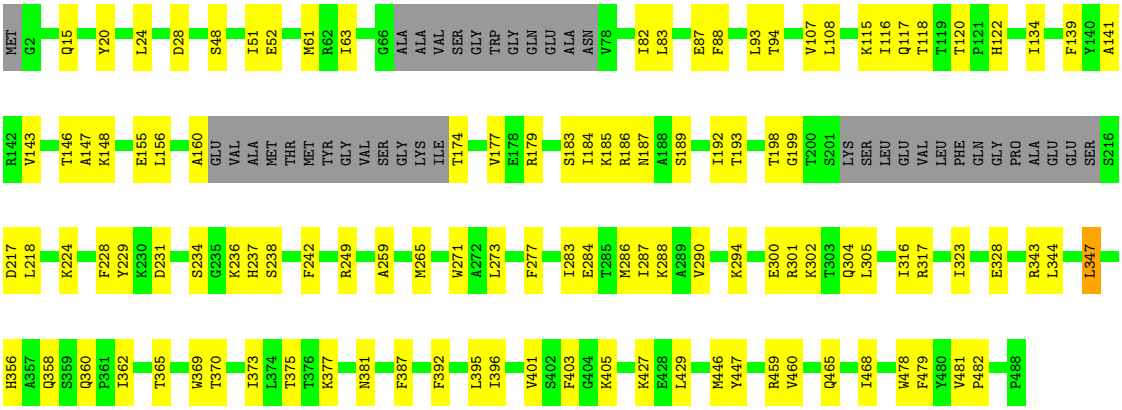
• Molecule 1: Aeg-L

Chain M:



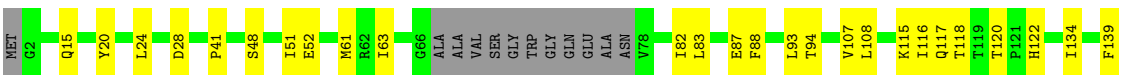
• Molecule 1: Aeg-L

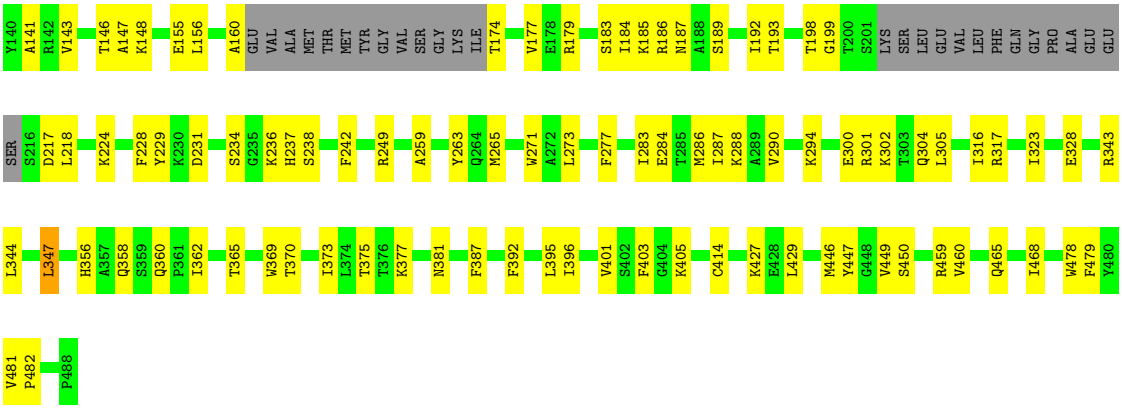
Chain N:



• Molecule 1: Aeg-L

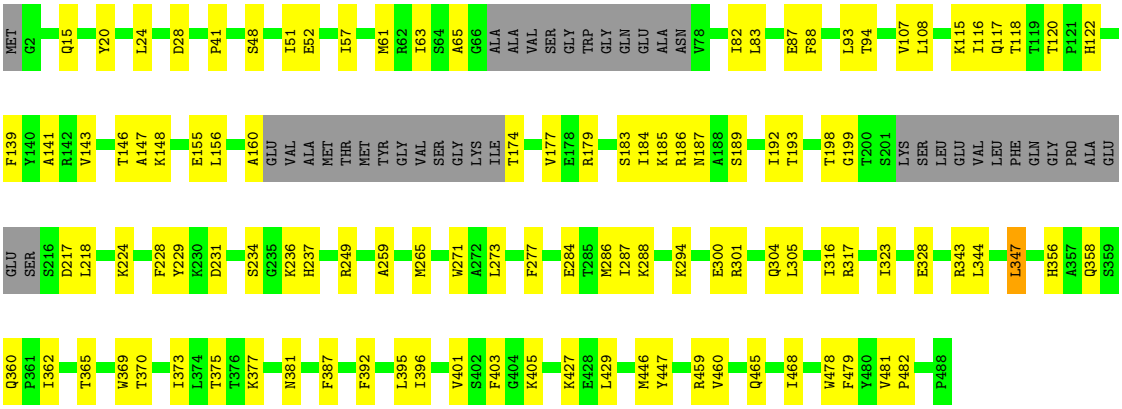
Chain O:





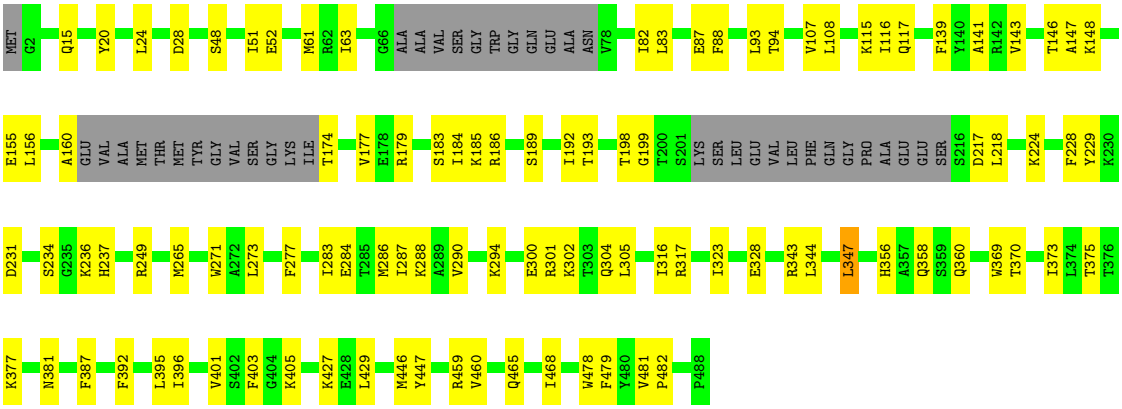
• Molecule 1: Aeg-L

Chain P:



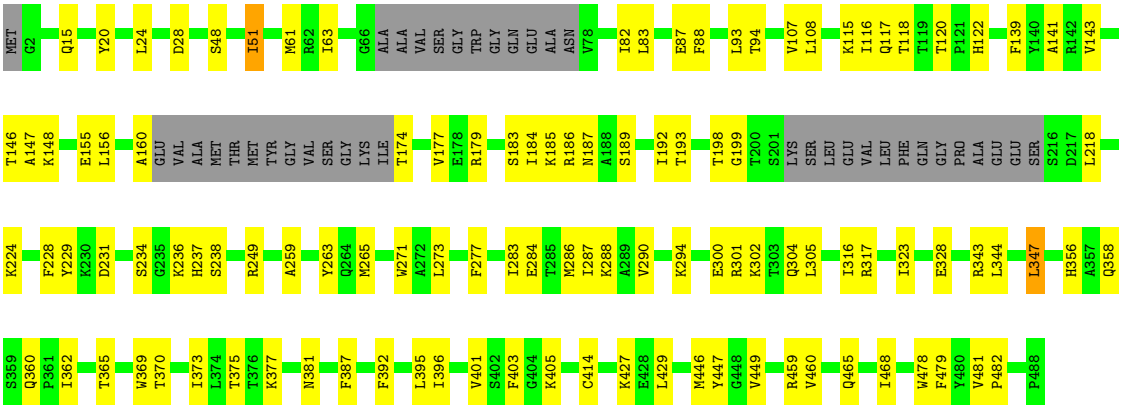
• Molecule 1: Aeg-L

Chain Q:



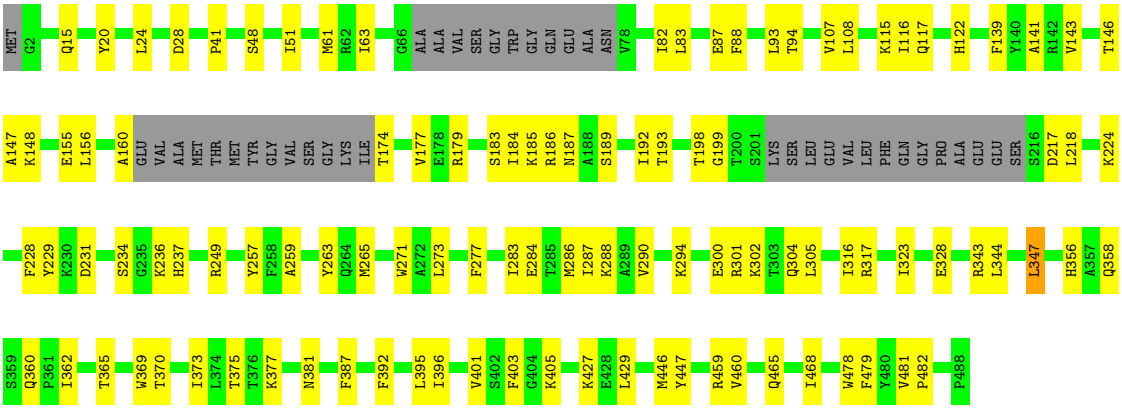
• Molecule 1: Aeg-L

Chain R:



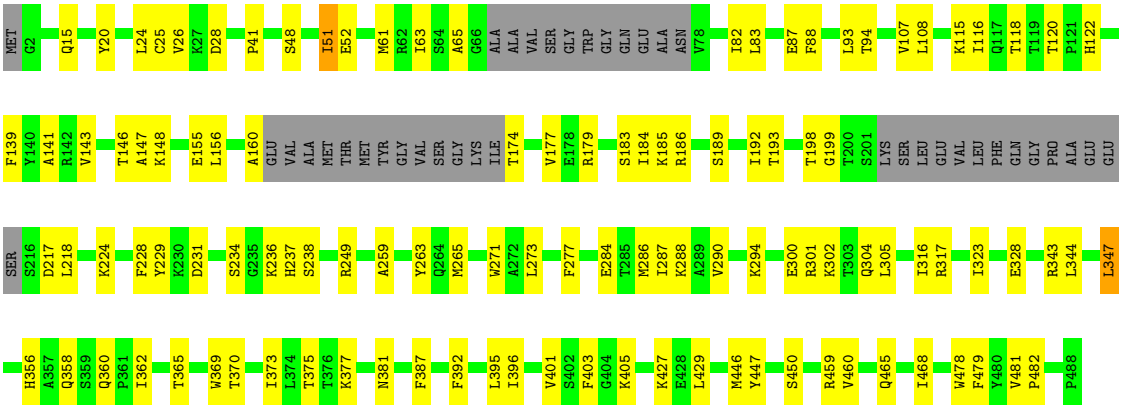
• Molecule 1: Aeg-L

Chain a:



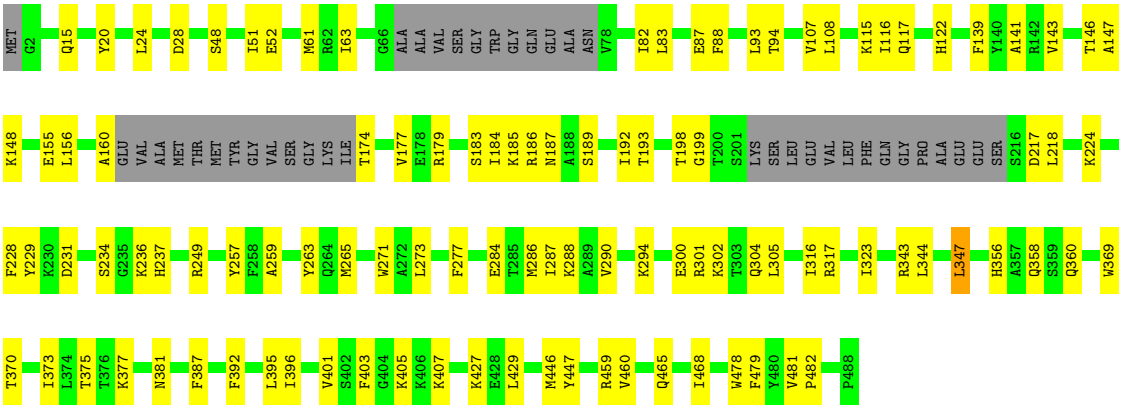
• Molecule 1: Aeg-L

Chain b:



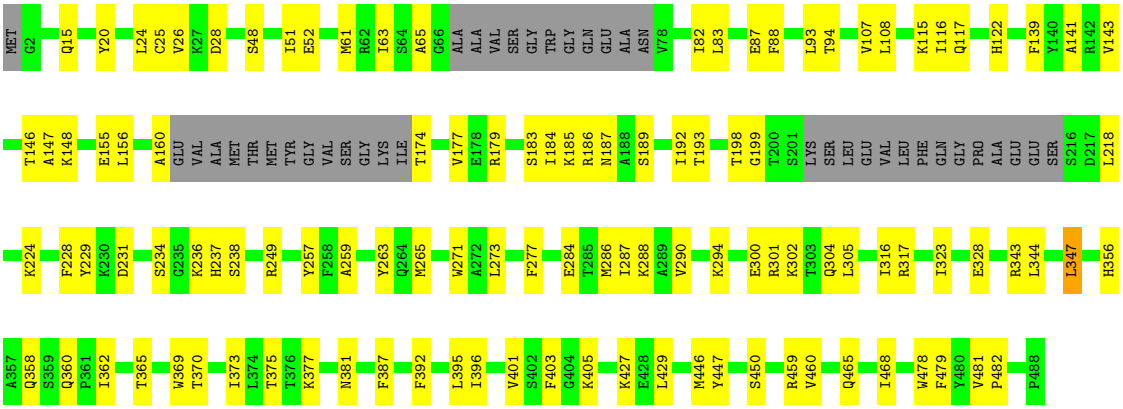
• Molecule 1: Aeg-L

Chain c:



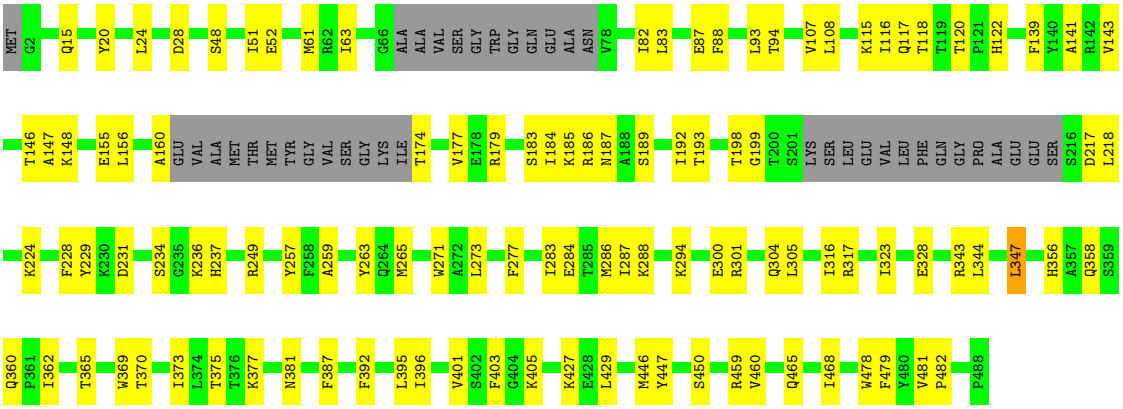
• Molecule 1: Aeg-L

Chain d:



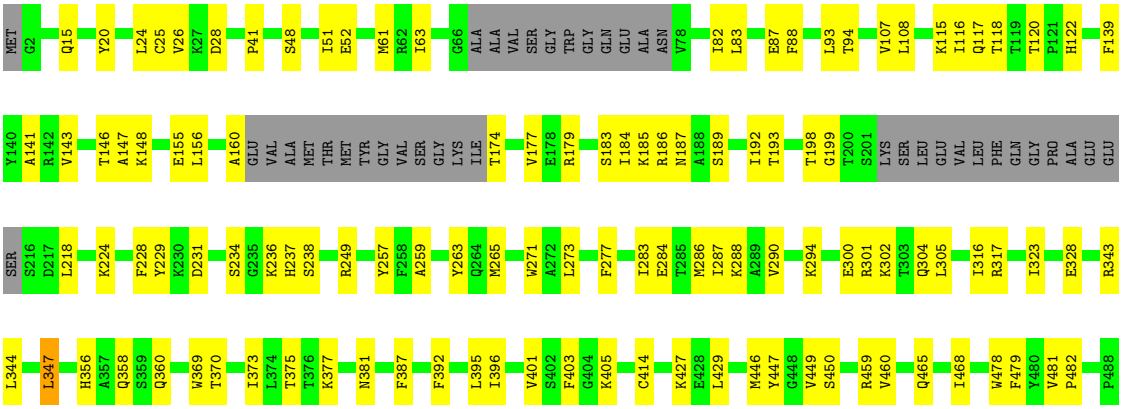
• Molecule 1: Aeg-L

Chain e:



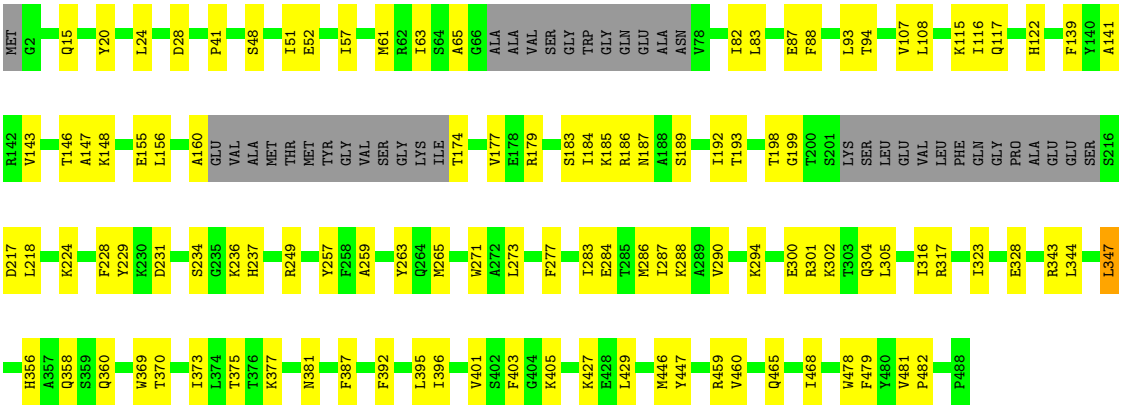
• Molecule 1: Aeg-L

Chain f:



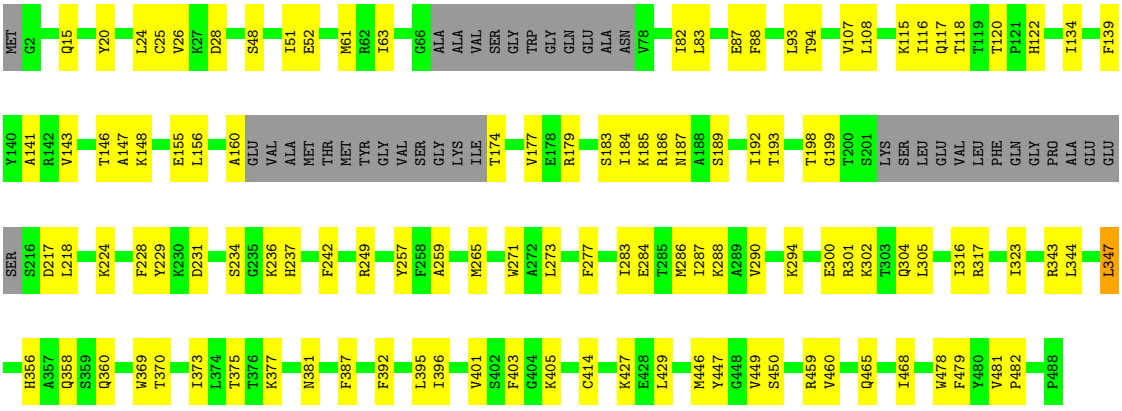
• Molecule 1: Aeg-L

Chain g:



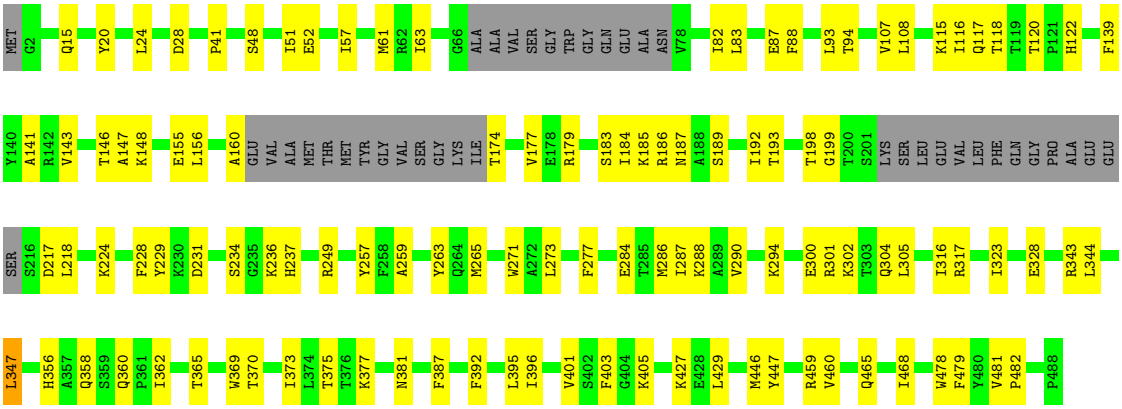
• Molecule 1: Aeg-L

Chain h:



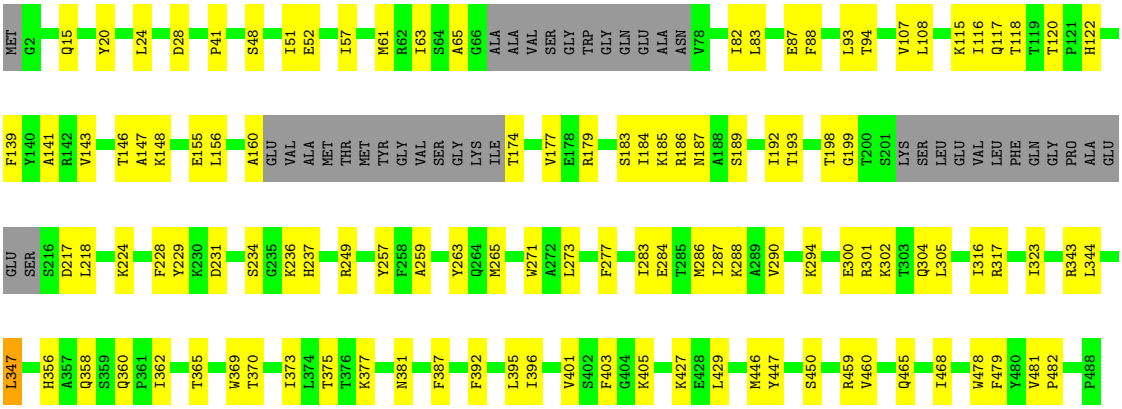
• Molecule 1: Aeg-L

Chain i:



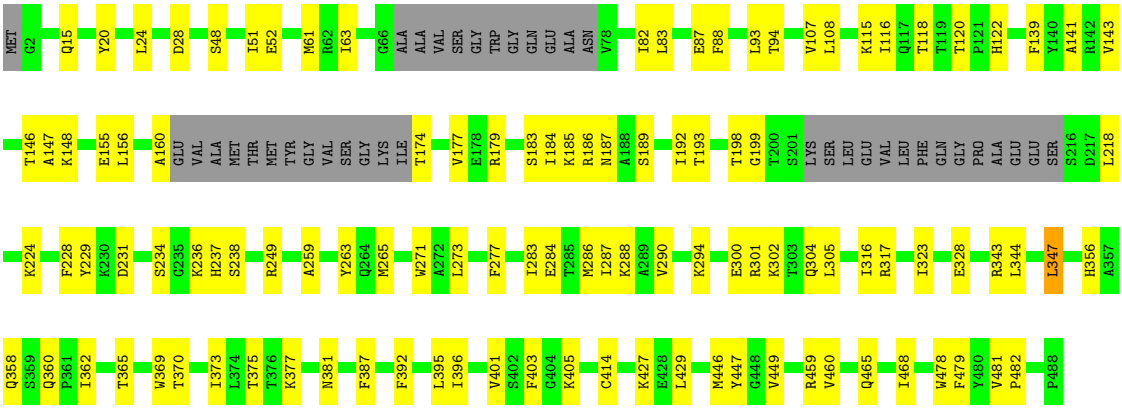
• Molecule 1: Aeg-L

Chain j:



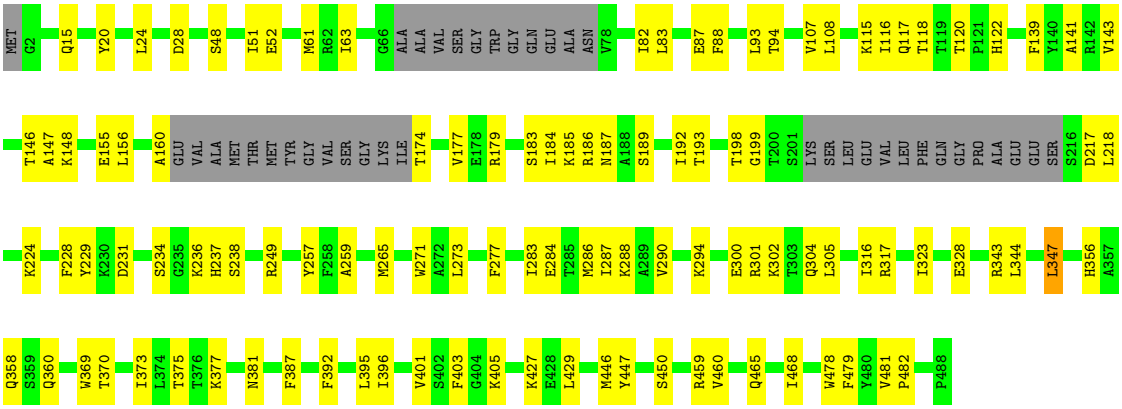
• Molecule 1: Aeg-L

Chain k:



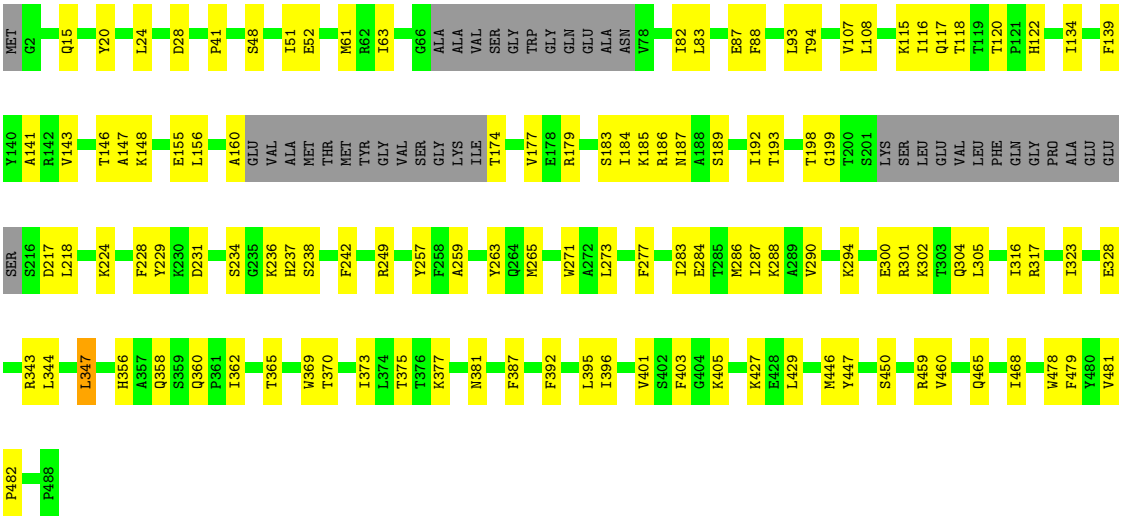
• Molecule 1: Aeg-L

Chain l:



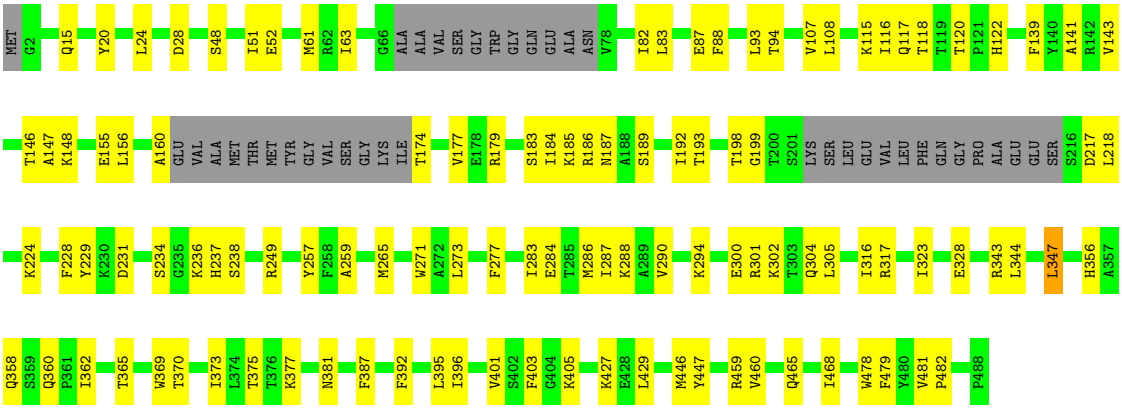
• Molecule 1: Aeg-L

Chain m:



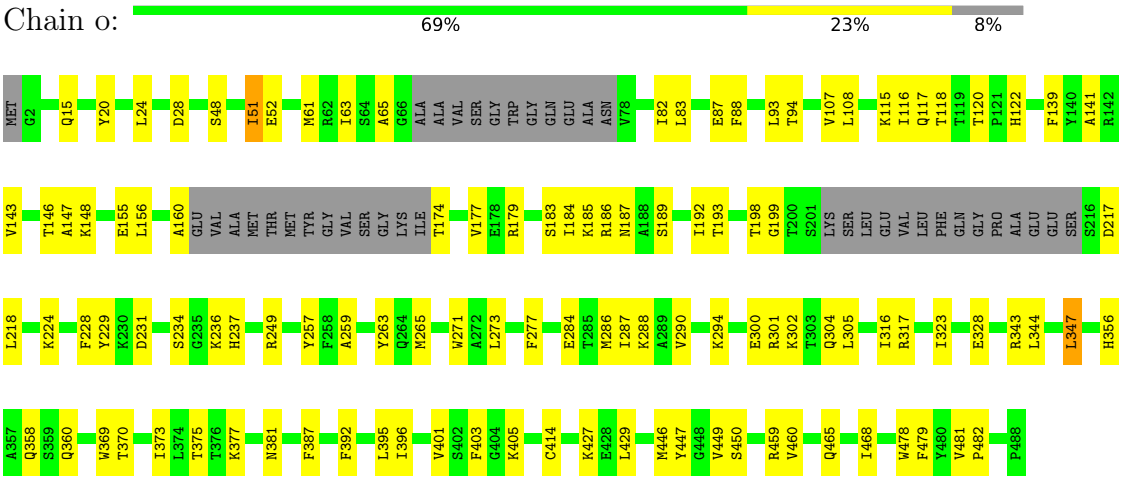
• Molecule 1: Aeg-L

Chain n:



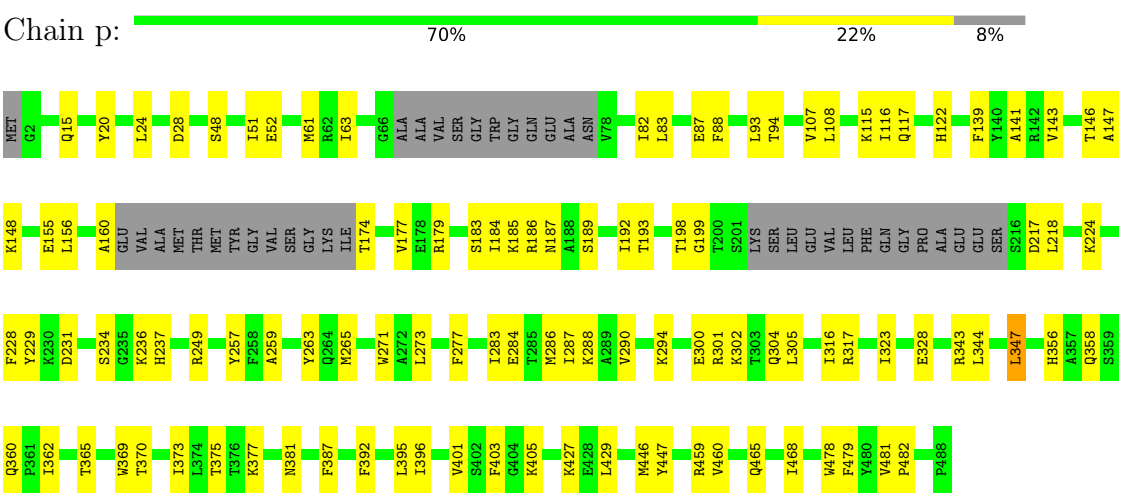
• Molecule 1: Aeg-L

Chain o:



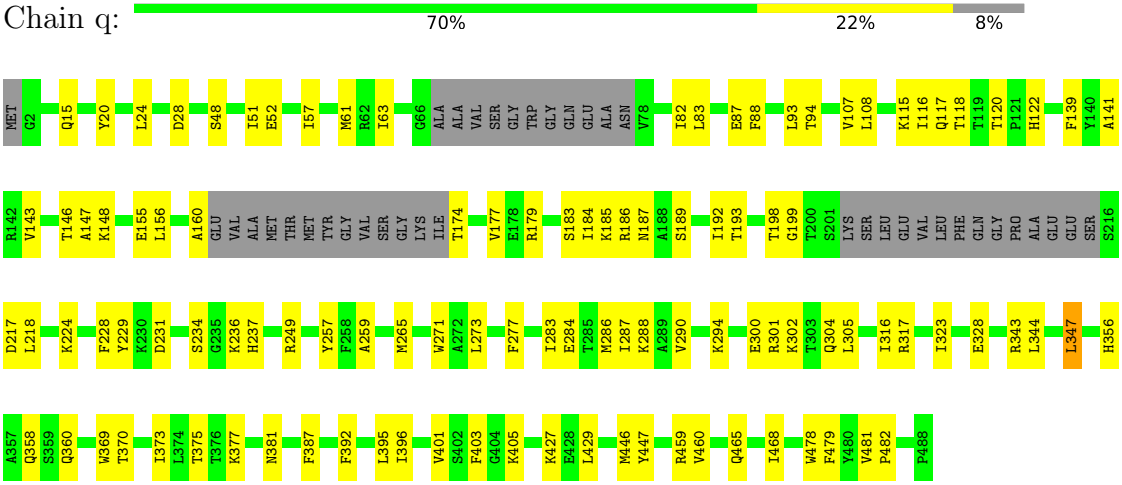
• Molecule 1: Aeg-L

Chain p:



• Molecule 1: Aeg-L

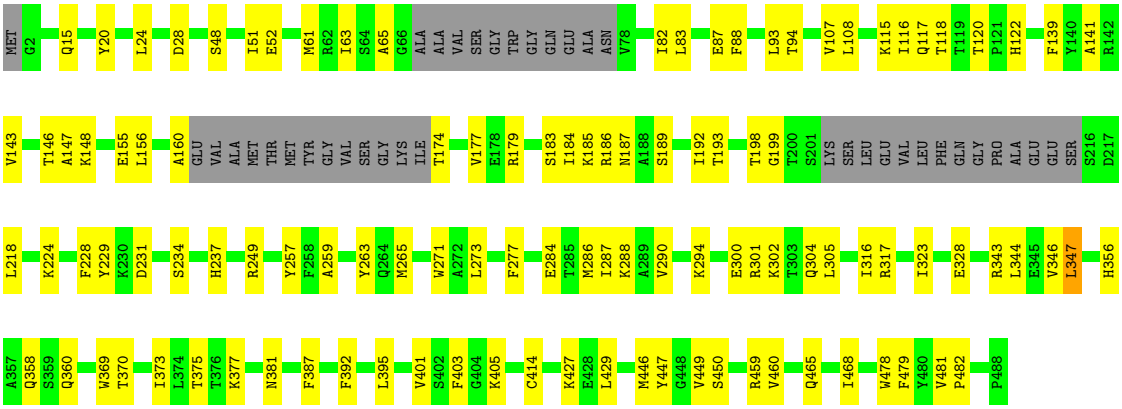
Chain q:



• Molecule 1: Aeg-L

Chain r:


69%
22%
8%


MET G2 Q15 Y20 L24 D28 S48 I51 E52 M61 R62 I63 S64 A65 G66 ALA ALA VAL SER GLY TRP GLY GLN GLU ALA ASN V78 I82 L83 E87 F88 L93 T94 V107 L108 K115 I116 Q117 T118 T119 T120 P121 H122 F139 Y140 A141 R142
V143 T146 A147 K148 E155 L156 A160 GLU VAL ALA MET THR MET TYR GLY VAL SER GLY LYS ILE T174 V177 E178 R179 S183 I184 K185 R186 N187 A188 S189 I192 T193 T198 G199 T200 S201 LYS SER LEU GLU VAL LEU PHE GLN GLY PRO ALA GLU GLU SER S216 D217
L218 K224 F228 Y229 K230 D231 S234 H237 R249 Y257 F258 A259 Y263 Q264 M265 W271 A272 L273 F277 E284 T285 M286 I287 K288 A289 V290 K294 E300 R301 K302 T303 Q304 L305 I316 R317 I323 E328 R343 L344 E345 V346 L347 H356
A357 Q358 S359 Q360 W369 T370 I373 L374 T375 T376 K377 N381 F387 F392 L395 V401 S402 F403 G404 K405 C414 K427 E428 L429 M446 Y447 G448 V449 S450 R459 V460 Q465 I468 W478 F479 Y480 V481 P482 P488

4 Experimental information (i)

Property	Value	Source
EM reconstruction method	SINGLE PARTICLE	Depositor
Imposed symmetry	POINT, Not provided	
Number of particles used	494713	Depositor
Resolution determination method	FSC 0.143 CUT-OFF	Depositor
CTF correction method	PHASE FLIPPING AND AMPLITUDE CORRECTION	Depositor
Microscope	TFS TITAN THEMIS	Depositor
Voltage (kV)	300	Depositor
Electron dose ($e^-/Å^2$)	60	Depositor
Minimum defocus (nm)	800	Depositor
Maximum defocus (nm)	1500	Depositor
Magnification	Not provided	
Image detector	GATAN K2 SUMMIT (4k x 4k)	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	0.31	0/3710	0.48	2/5016 (0.0%)
1	B	0.29	0/3710	0.44	1/5016 (0.0%)
1	C	0.28	0/3710	0.44	1/5016 (0.0%)
1	D	0.28	0/3710	0.43	1/5016 (0.0%)
1	E	0.28	0/3710	0.43	1/5016 (0.0%)
1	F	0.28	0/3710	0.43	1/5016 (0.0%)
1	G	0.28	0/3710	0.43	1/5016 (0.0%)
1	H	0.28	0/3710	0.43	1/5016 (0.0%)
1	I	0.28	0/3710	0.43	1/5016 (0.0%)
1	J	0.28	0/3710	0.43	1/5016 (0.0%)
1	K	0.28	0/3710	0.43	1/5016 (0.0%)
1	L	0.28	0/3710	0.43	1/5016 (0.0%)
1	M	0.28	0/3710	0.43	1/5016 (0.0%)
1	N	0.28	0/3710	0.43	1/5016 (0.0%)
1	O	0.28	0/3710	0.43	1/5016 (0.0%)
1	P	0.28	0/3710	0.43	1/5016 (0.0%)
1	Q	0.28	0/3710	0.43	1/5016 (0.0%)
1	R	0.28	0/3710	0.43	1/5016 (0.0%)
1	a	0.28	0/3710	0.44	1/5016 (0.0%)
1	b	0.28	0/3710	0.43	1/5016 (0.0%)
1	c	0.28	0/3710	0.43	1/5016 (0.0%)
1	d	0.28	0/3710	0.44	1/5016 (0.0%)
1	e	0.28	0/3710	0.43	1/5016 (0.0%)
1	f	0.28	0/3710	0.43	1/5016 (0.0%)
1	g	0.28	0/3710	0.43	1/5016 (0.0%)
1	h	0.28	0/3710	0.43	1/5016 (0.0%)
1	i	0.28	0/3710	0.43	1/5016 (0.0%)
1	j	0.28	0/3710	0.44	1/5016 (0.0%)
1	k	0.28	0/3710	0.44	1/5016 (0.0%)
1	l	0.28	0/3710	0.43	1/5016 (0.0%)
1	m	0.28	0/3710	0.44	1/5016 (0.0%)
1	n	0.28	0/3710	0.43	1/5016 (0.0%)
1	o	0.28	0/3710	0.44	1/5016 (0.0%)
1	p	0.28	0/3710	0.43	1/5016 (0.0%)

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	$\#\|Z\|>5$	RMSZ	$\#\|Z\|>5$
1	q	0.29	0/3710	0.44	1/5016 (0.0%)
1	r	0.29	0/3710	0.45	1/5016 (0.0%)
All	All	0.28	0/133560	0.43	37/180576 (0.0%)

There are no bond length outliers.

All (37) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	B	148	LYS	N-CA-C	-5.22	106.06	112.90
1	A	119	THR	N-CA-C	-5.21	106.75	113.01
1	A	148	LYS	N-CA-C	-5.21	106.07	112.90
1	f	148	LYS	N-CA-C	-5.21	106.08	112.90
1	q	148	LYS	N-CA-C	-5.21	106.08	112.90
1	O	148	LYS	N-CA-C	-5.20	106.08	112.90
1	r	148	LYS	N-CA-C	-5.20	106.08	112.90
1	a	148	LYS	N-CA-C	-5.20	106.08	112.90
1	K	148	LYS	N-CA-C	-5.20	106.09	112.90
1	n	148	LYS	N-CA-C	-5.20	106.09	112.90
1	F	148	LYS	N-CA-C	-5.19	106.10	112.90
1	e	148	LYS	N-CA-C	-5.19	106.10	112.90
1	l	148	LYS	N-CA-C	-5.19	106.10	112.90
1	Q	148	LYS	N-CA-C	-5.19	106.10	112.90
1	o	148	LYS	N-CA-C	-5.19	106.10	112.90
1	J	148	LYS	N-CA-C	-5.19	106.10	112.90
1	D	148	LYS	N-CA-C	-5.19	106.10	112.90
1	M	148	LYS	N-CA-C	-5.19	106.10	112.90
1	g	148	LYS	N-CA-C	-5.19	106.11	112.90
1	m	148	LYS	N-CA-C	-5.19	106.11	112.90
1	b	148	LYS	N-CA-C	-5.18	106.11	112.90
1	L	148	LYS	N-CA-C	-5.18	106.11	112.90
1	p	148	LYS	N-CA-C	-5.18	106.11	112.90
1	k	148	LYS	N-CA-C	-5.18	106.12	112.90
1	R	148	LYS	N-CA-C	-5.17	106.12	112.90
1	I	148	LYS	N-CA-C	-5.17	106.12	112.90
1	h	148	LYS	N-CA-C	-5.17	106.13	112.90
1	E	148	LYS	N-CA-C	-5.17	106.13	112.90
1	N	148	LYS	N-CA-C	-5.17	106.13	112.90
1	G	148	LYS	N-CA-C	-5.17	106.13	112.90
1	P	148	LYS	N-CA-C	-5.17	106.13	112.90
1	d	148	LYS	N-CA-C	-5.17	106.13	112.90
1	C	148	LYS	N-CA-C	-5.16	106.14	112.90
1	H	148	LYS	N-CA-C	-5.16	106.14	112.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	j	148	LYS	N-CA-C	-5.16	106.15	112.90
1	c	148	LYS	N-CA-C	-5.15	106.15	112.90
1	i	148	LYS	N-CA-C	-5.14	106.17	112.90

There are no chirality outliers.

There are no planarity outliers.

5.2 Too-close contacts (i)

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

Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	A	3624	0	3529	100	0
1	B	3624	0	3529	103	0
1	C	3624	0	3529	107	0
1	D	3624	0	3529	107	0
1	E	3624	0	3529	110	0
1	F	3624	0	3529	106	0
1	G	3624	0	3529	109	0
1	H	3624	0	3529	105	0
1	I	3624	0	3529	107	0
1	J	3624	0	3529	104	0
1	K	3624	0	3529	107	0
1	L	3624	0	3529	107	0
1	M	3624	0	3529	107	0
1	N	3624	0	3529	107	0
1	O	3624	0	3529	111	0
1	P	3624	0	3529	105	0
1	Q	3624	0	3529	100	0
1	R	3624	0	3529	105	0
1	a	3624	0	3529	104	0
1	b	3624	0	3529	106	0
1	c	3624	0	3529	103	0
1	d	3624	0	3529	108	0
1	e	3624	0	3529	109	0
1	f	3624	0	3529	111	0
1	g	3624	0	3529	108	0
1	h	3624	0	3529	110	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	i	3624	0	3529	107	0
1	j	3624	0	3529	109	0
1	k	3624	0	3529	106	0
1	l	3624	0	3529	108	0
1	m	3624	0	3529	110	0
1	n	3624	0	3529	105	0
1	o	3624	0	3529	104	0
1	p	3624	0	3529	104	0
1	q	3624	0	3529	105	0
1	r	3624	0	3529	99	0
All	All	130464	0	127044	3335	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 13.

All (3335) 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:q:265:MET:HE2	1:r:317:ARG:HD3	1.59	0.84
1:M:317:ARG:HD3	1:N:265:MET:HE2	1.60	0.83
1:J:317:ARG:HD3	1:K:265:MET:HE2	1.59	0.83
1:A:317:ARG:HD3	1:B:265:MET:HE2	1.59	0.83
1:a:317:ARG:HD3	1:e:265:MET:HE2	1.59	0.83
1:L:317:ARG:HD3	1:M:265:MET:HE2	1.59	0.83
1:j:317:ARG:HD3	1:n:265:MET:HE2	1.60	0.83
1:D:317:ARG:HD3	1:E:265:MET:HE2	1.59	0.83
1:H:317:ARG:HD3	1:I:265:MET:HE2	1.60	0.83
1:d:265:MET:HE2	1:e:317:ARG:HD3	1.60	0.83
1:j:265:MET:HE2	1:l:317:ARG:HD3	1.60	0.83
1:b:265:MET:HE2	1:k:317:ARG:HD3	1.59	0.82
1:d:317:ARG:HD3	1:f:265:MET:HE2	1.60	0.82
1:B:317:ARG:HD3	1:C:265:MET:HE2	1.61	0.82
1:g:317:ARG:HD3	1:h:265:MET:HE2	1.59	0.82
1:I:317:ARG:HD3	1:J:265:MET:HE2	1.61	0.82
1:c:317:ARG:HD3	1:r:265:MET:HE2	1.60	0.82
1:o:265:MET:HE2	1:q:317:ARG:HD3	1.60	0.82
1:A:265:MET:HE2	1:R:317:ARG:HD3	1.60	0.81
1:F:317:ARG:HD3	1:G:265:MET:HE2	1.60	0.81
1:O:317:ARG:HD3	1:P:265:MET:HE2	1.61	0.81
1:l:265:MET:HE2	1:o:317:ARG:HD3	1.62	0.81
1:f:317:ARG:HD3	1:g:265:MET:HE2	1.61	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:m:265:MET:HE2	1:n:317:ARG:HD3	1.60	0.81
1:C:317:ARG:HD3	1:D:265:MET:HE2	1.62	0.81
1:P:317:ARG:HD3	1:Q:265:MET:HE2	1.59	0.81
1:E:317:ARG:HD3	1:F:265:MET:HE2	1.60	0.81
1:N:317:ARG:HD3	1:O:265:MET:HE2	1.60	0.81
1:K:317:ARG:HD3	1:L:265:MET:HE2	1.62	0.81
1:i:317:ARG:HD3	1:p:265:MET:HE2	1.60	0.81
1:a:265:MET:HE2	1:b:317:ARG:HD3	1.62	0.81
1:k:265:MET:HE2	1:p:317:ARG:HD3	1.61	0.81
1:i:265:MET:HE2	1:m:317:ARG:HD3	1.62	0.80
1:G:317:ARG:HD3	1:H:265:MET:HE2	1.62	0.79
1:Q:317:ARG:HD3	1:R:265:MET:HE2	1.63	0.79
1:c:265:MET:HE2	1:h:317:ARG:HD3	1.63	0.78
1:A:286:MET:SD	1:A:346:VAL:HG11	2.24	0.78
1:r:286:MET:SD	1:r:346:VAL:HG11	2.24	0.78
1:E:447:TYR:HB2	1:E:479:PHE:CE1	2.25	0.72
1:f:447:TYR:HB2	1:f:479:PHE:CE1	2.25	0.72
1:L:447:TYR:HB2	1:L:479:PHE:CE1	2.25	0.72
1:l:447:TYR:HB2	1:l:479:PHE:CE1	2.25	0.72
1:H:447:TYR:HB2	1:H:479:PHE:CE1	2.25	0.72
1:o:447:TYR:HB2	1:o:479:PHE:CE1	2.25	0.72
1:I:447:TYR:HB2	1:I:479:PHE:CE1	2.25	0.72
1:K:447:TYR:HB2	1:K:479:PHE:CE1	2.25	0.72
1:c:447:TYR:HB2	1:c:479:PHE:CE1	2.25	0.72
1:A:447:TYR:HB2	1:A:479:PHE:CE1	2.25	0.72
1:P:447:TYR:HB2	1:P:479:PHE:CE1	2.25	0.72
1:b:447:TYR:HB2	1:b:479:PHE:CE1	2.25	0.72
1:g:447:TYR:HB2	1:g:479:PHE:CE1	2.25	0.72
1:r:447:TYR:HB2	1:r:479:PHE:CE1	2.25	0.72
1:F:447:TYR:HB2	1:F:479:PHE:CE1	2.25	0.71
1:Q:447:TYR:HB2	1:Q:479:PHE:CE1	2.25	0.71
1:n:447:TYR:HB2	1:n:479:PHE:CE1	2.25	0.71
1:p:447:TYR:HB2	1:p:479:PHE:CE1	2.25	0.71
1:N:447:TYR:HB2	1:N:479:PHE:CE1	2.25	0.71
1:d:447:TYR:HB2	1:d:479:PHE:CE1	2.25	0.71
1:i:447:TYR:HB2	1:i:479:PHE:CE1	2.25	0.71
1:B:447:TYR:HB2	1:B:479:PHE:CE1	2.25	0.71
1:a:447:TYR:HB2	1:a:479:PHE:CE1	2.25	0.71
1:D:447:TYR:HB2	1:D:479:PHE:CE1	2.25	0.71
1:J:447:TYR:HB2	1:J:479:PHE:CE1	2.25	0.71
1:M:447:TYR:HB2	1:M:479:PHE:CE1	2.25	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:j:447:TYR:HB2	1:j:479:PHE:CE1	2.25	0.71
1:q:447:TYR:HB2	1:q:479:PHE:CE1	2.25	0.71
1:O:447:TYR:HB2	1:O:479:PHE:CE1	2.25	0.71
1:C:447:TYR:HB2	1:C:479:PHE:CE1	2.25	0.71
1:R:447:TYR:HB2	1:R:479:PHE:CE1	2.25	0.71
1:m:447:TYR:HB2	1:m:479:PHE:CE1	2.25	0.71
1:e:447:TYR:HB2	1:e:479:PHE:CE1	2.25	0.71
1:k:447:TYR:HB2	1:k:479:PHE:CE1	2.25	0.71
1:h:447:TYR:HB2	1:h:479:PHE:CE1	2.25	0.70
1:G:447:TYR:HB2	1:G:479:PHE:CE1	2.25	0.70
1:A:179:ARG:HB2	1:B:61:MET:HB2	1.74	0.70
1:a:179:ARG:HB2	1:e:61:MET:HB2	1.74	0.70
1:P:179:ARG:HB2	1:Q:61:MET:HB2	1.74	0.70
1:M:179:ARG:HB2	1:N:61:MET:HB2	1.74	0.70
1:i:179:ARG:HB2	1:p:61:MET:HB2	1.74	0.70
1:j:179:ARG:HB2	1:n:61:MET:HB2	1.74	0.69
1:L:179:ARG:HB2	1:M:61:MET:HB2	1.74	0.69
1:d:61:MET:HB2	1:e:179:ARG:HB2	1.74	0.69
1:j:61:MET:HB2	1:l:179:ARG:HB2	1.74	0.69
1:k:61:MET:HB2	1:p:179:ARG:HB2	1.75	0.69
1:A:61:MET:HB2	1:R:179:ARG:HB2	1.75	0.69
1:D:179:ARG:HB2	1:E:61:MET:HB2	1.74	0.69
1:O:179:ARG:HB2	1:P:61:MET:HB2	1.75	0.69
1:b:61:MET:HB2	1:k:179:ARG:HB2	1.75	0.69
1:m:61:MET:HB2	1:n:179:ARG:HB2	1.75	0.69
1:B:179:ARG:HB2	1:C:61:MET:HB2	1.75	0.69
1:E:179:ARG:HB2	1:F:61:MET:HB2	1.74	0.69
1:g:179:ARG:HB2	1:h:61:MET:HB2	1.74	0.69
1:f:179:ARG:HB2	1:g:61:MET:HB2	1.75	0.68
1:H:179:ARG:HB2	1:I:61:MET:HB2	1.74	0.68
1:d:179:ARG:HB2	1:f:61:MET:HB2	1.75	0.68
1:q:61:MET:HB2	1:r:179:ARG:HB2	1.74	0.68
1:F:179:ARG:HB2	1:G:61:MET:HB2	1.75	0.68
1:Q:179:ARG:HB2	1:R:61:MET:HB2	1.76	0.68
1:J:179:ARG:HB2	1:K:61:MET:HB2	1.75	0.68
1:C:179:ARG:HB2	1:D:61:MET:HB2	1.76	0.68
1:N:179:ARG:HB2	1:O:61:MET:HB2	1.76	0.68
1:o:61:MET:HB2	1:q:179:ARG:HB2	1.75	0.68
1:c:179:ARG:HB2	1:r:61:MET:HB2	1.75	0.68
1:o:369:TRP:O	1:o:459:ARG:NH1	2.27	0.68
1:K:369:TRP:O	1:K:459:ARG:NH1	2.28	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:179:ARG:HB2	1:J:61:MET:HB2	1.75	0.67
1:P:369:TRP:O	1:P:459:ARG:NH1	2.28	0.67
1:a:61:MET:HB2	1:b:179:ARG:HB2	1.77	0.67
1:i:61:MET:HB2	1:m:179:ARG:HB2	1.76	0.67
1:i:369:TRP:O	1:i:459:ARG:NH1	2.28	0.67
1:l:369:TRP:O	1:l:459:ARG:NH1	2.28	0.67
1:J:369:TRP:O	1:J:459:ARG:NH1	2.28	0.67
1:p:369:TRP:O	1:p:459:ARG:NH1	2.28	0.67
1:q:369:TRP:O	1:q:459:ARG:NH1	2.28	0.67
1:L:369:TRP:O	1:L:459:ARG:NH1	2.28	0.67
1:O:369:TRP:O	1:O:459:ARG:NH1	2.28	0.67
1:Q:369:TRP:O	1:Q:459:ARG:NH1	2.28	0.67
1:m:369:TRP:O	1:m:459:ARG:NH1	2.27	0.67
1:l:61:MET:HB2	1:o:179:ARG:HB2	1.76	0.67
1:g:369:TRP:O	1:g:459:ARG:NH1	2.28	0.67
1:F:369:TRP:O	1:F:459:ARG:NH1	2.28	0.67
1:h:369:TRP:O	1:h:459:ARG:NH1	2.28	0.67
1:E:369:TRP:O	1:E:459:ARG:NH1	2.27	0.67
1:G:369:TRP:O	1:G:459:ARG:NH1	2.28	0.67
1:I:369:TRP:O	1:I:459:ARG:NH1	2.28	0.67
1:f:369:TRP:O	1:f:459:ARG:NH1	2.28	0.67
1:j:369:TRP:O	1:j:459:ARG:NH1	2.28	0.67
1:K:179:ARG:HB2	1:L:61:MET:HB2	1.77	0.67
1:M:369:TRP:O	1:M:459:ARG:NH1	2.28	0.67
1:R:369:TRP:O	1:R:459:ARG:NH1	2.28	0.67
1:k:369:TRP:O	1:k:459:ARG:NH1	2.28	0.67
1:r:369:TRP:O	1:r:459:ARG:NH1	2.28	0.67
1:D:369:TRP:O	1:D:459:ARG:NH1	2.28	0.66
1:N:369:TRP:O	1:N:459:ARG:NH1	2.28	0.66
1:c:61:MET:HB2	1:h:179:ARG:HB2	1.76	0.66
1:d:369:TRP:O	1:d:459:ARG:NH1	2.27	0.66
1:G:179:ARG:HB2	1:H:61:MET:HB2	1.77	0.66
1:c:369:TRP:O	1:c:459:ARG:NH1	2.28	0.66
1:n:369:TRP:O	1:n:459:ARG:NH1	2.28	0.66
1:H:369:TRP:O	1:H:459:ARG:NH1	2.27	0.66
1:C:369:TRP:O	1:C:459:ARG:NH1	2.28	0.66
1:b:369:TRP:O	1:b:459:ARG:NH1	2.28	0.66
1:e:369:TRP:O	1:e:459:ARG:NH1	2.28	0.66
1:A:369:TRP:O	1:A:459:ARG:NH1	2.28	0.66
1:B:369:TRP:O	1:B:459:ARG:NH1	2.28	0.65
1:a:369:TRP:O	1:a:459:ARG:NH1	2.28	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:g:405:LYS:O	1:g:427:LYS:N	2.30	0.65
1:I:405:LYS:O	1:I:427:LYS:N	2.30	0.65
1:K:405:LYS:O	1:K:427:LYS:N	2.30	0.65
1:H:405:LYS:O	1:H:427:LYS:N	2.30	0.65
1:D:405:LYS:O	1:D:427:LYS:N	2.30	0.64
1:p:405:LYS:O	1:p:427:LYS:N	2.30	0.64
1:G:231:ASP:HB3	1:G:236:LYS:HE2	1.80	0.64
1:O:405:LYS:O	1:O:427:LYS:N	2.31	0.64
1:h:231:ASP:HB3	1:h:236:LYS:HE2	1.80	0.64
1:H:231:ASP:HB3	1:H:236:LYS:HE2	1.80	0.64
1:Q:405:LYS:O	1:Q:427:LYS:N	2.30	0.64
1:c:231:ASP:HB3	1:c:236:LYS:HE2	1.80	0.64
1:h:405:LYS:O	1:h:427:LYS:N	2.30	0.64
1:F:231:ASP:HB3	1:F:236:LYS:HE2	1.80	0.64
1:I:231:ASP:HB3	1:I:236:LYS:HE2	1.80	0.64
1:R:405:LYS:O	1:R:427:LYS:N	2.31	0.64
1:g:231:ASP:HB3	1:g:236:LYS:HE2	1.79	0.64
1:l:405:LYS:O	1:l:427:LYS:N	2.30	0.64
1:c:405:LYS:O	1:c:427:LYS:N	2.31	0.64
1:b:265:MET:CE	1:k:317:ARG:HD3	2.28	0.64
1:q:231:ASP:HB3	1:q:236:LYS:HE2	1.80	0.64
1:d:231:ASP:HB3	1:d:236:LYS:HE2	1.80	0.64
1:C:231:ASP:HB3	1:C:236:LYS:HE2	1.80	0.64
1:E:231:ASP:HB3	1:E:236:LYS:HE2	1.80	0.64
1:J:231:ASP:HB3	1:J:236:LYS:HE2	1.80	0.64
1:a:317:ARG:HD3	1:e:265:MET:CE	2.28	0.64
1:e:231:ASP:HB3	1:e:236:LYS:HE2	1.80	0.64
1:f:231:ASP:HB3	1:f:236:LYS:HE2	1.80	0.64
1:f:405:LYS:O	1:f:427:LYS:N	2.30	0.64
1:o:231:ASP:CB	1:o:236:LYS:HE2	2.28	0.64
1:C:231:ASP:CB	1:C:236:LYS:HE2	2.28	0.64
1:K:231:ASP:CB	1:K:236:LYS:HE2	2.28	0.64
1:P:317:ARG:HD3	1:Q:265:MET:CE	2.28	0.64
1:b:61:MET:HB2	1:k:179:ARG:HG3	1.81	0.64
1:b:405:LYS:O	1:b:427:LYS:N	2.30	0.64
1:B:231:ASP:HB3	1:B:236:LYS:HE2	1.80	0.63
1:D:231:ASP:HB3	1:D:236:LYS:HE2	1.80	0.63
1:K:231:ASP:HB3	1:K:236:LYS:HE2	1.80	0.63
1:L:231:ASP:HB3	1:L:236:LYS:HE2	1.80	0.63
1:M:231:ASP:CB	1:M:236:LYS:HE2	2.28	0.63
1:b:231:ASP:CB	1:b:236:LYS:HE2	2.28	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:e:231:ASP:CB	1:e:236:LYS:HE2	2.28	0.63
1:f:179:ARG:HG3	1:g:61:MET:HB2	1.80	0.63
1:g:231:ASP:CB	1:g:236:LYS:HE2	2.28	0.63
1:l:231:ASP:HB3	1:l:236:LYS:HE2	1.80	0.63
1:A:117:GLN:O	1:A:118:THR:HG23	1.98	0.63
1:F:231:ASP:CB	1:F:236:LYS:HE2	2.28	0.63
1:H:231:ASP:CB	1:H:236:LYS:HE2	2.28	0.63
1:i:405:LYS:O	1:i:427:LYS:N	2.30	0.63
1:j:231:ASP:CB	1:j:236:LYS:HE2	2.28	0.63
1:n:231:ASP:CB	1:n:236:LYS:HE2	2.28	0.63
1:B:231:ASP:CB	1:B:236:LYS:HE2	2.28	0.63
1:E:231:ASP:CB	1:E:236:LYS:HE2	2.28	0.63
1:E:317:ARG:HD3	1:F:265:MET:CE	2.29	0.63
1:L:317:ARG:HD3	1:M:265:MET:CE	2.28	0.63
1:N:231:ASP:CB	1:N:236:LYS:HE2	2.28	0.63
1:O:231:ASP:CB	1:O:236:LYS:HE2	2.28	0.63
1:P:405:LYS:O	1:P:427:LYS:N	2.30	0.63
1:a:231:ASP:HB3	1:a:236:LYS:HE2	1.80	0.63
1:f:231:ASP:CB	1:f:236:LYS:HE2	2.28	0.63
1:m:231:ASP:CB	1:m:236:LYS:HE2	2.28	0.63
1:o:231:ASP:HB3	1:o:236:LYS:HE2	1.80	0.63
1:q:265:MET:CE	1:r:317:ARG:HD3	2.27	0.63
1:D:317:ARG:HD3	1:E:265:MET:CE	2.28	0.63
1:a:231:ASP:CB	1:a:236:LYS:HE2	2.28	0.63
1:c:231:ASP:CB	1:c:236:LYS:HE2	2.28	0.63
1:f:317:ARG:HD3	1:g:265:MET:CE	2.29	0.63
1:k:231:ASP:CB	1:k:236:LYS:HE2	2.28	0.63
1:B:179:ARG:HG3	1:C:61:MET:HB2	1.81	0.63
1:M:231:ASP:HB3	1:M:236:LYS:HE2	1.80	0.63
1:R:231:ASP:CB	1:R:236:LYS:HE2	2.28	0.63
1:A:265:MET:CE	1:R:317:ARG:HD3	2.29	0.63
1:B:317:ARG:HD3	1:C:265:MET:CE	2.29	0.63
1:J:231:ASP:CB	1:J:236:LYS:HE2	2.28	0.63
1:O:179:ARG:HG3	1:P:61:MET:HB2	1.80	0.63
1:P:231:ASP:CB	1:P:236:LYS:HE2	2.28	0.63
1:i:317:ARG:HD3	1:p:265:MET:CE	2.28	0.63
1:j:265:MET:CE	1:l:317:ARG:HD3	2.28	0.63
1:A:61:MET:HB2	1:R:179:ARG:HG3	1.81	0.63
1:I:231:ASP:CB	1:I:236:LYS:HE2	2.28	0.63
1:d:231:ASP:CB	1:d:236:LYS:HE2	2.28	0.63
1:j:231:ASP:HB3	1:j:236:LYS:HE2	1.80	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:q:231:ASP:CB	1:q:236:LYS:HE2	2.28	0.63
1:A:179:ARG:HG3	1:B:61:MET:HB2	1.81	0.63
1:J:317:ARG:HD3	1:K:265:MET:CE	2.28	0.63
1:Q:231:ASP:CB	1:Q:236:LYS:HE2	2.28	0.63
1:b:231:ASP:HB3	1:b:236:LYS:HE2	1.80	0.63
1:i:231:ASP:CB	1:i:236:LYS:HE2	2.28	0.63
1:m:61:MET:HB2	1:n:179:ARG:HG3	1.81	0.63
1:d:317:ARG:HD3	1:f:265:MET:CE	2.28	0.62
1:p:231:ASP:CB	1:p:236:LYS:HE2	2.28	0.62
1:D:231:ASP:CB	1:D:236:LYS:HE2	2.28	0.62
1:N:231:ASP:HB3	1:N:236:LYS:HE2	1.80	0.62
1:a:61:MET:HB2	1:b:179:ARG:HG3	1.81	0.62
1:h:231:ASP:CB	1:h:236:LYS:HE2	2.28	0.62
1:i:61:MET:HB2	1:m:179:ARG:HG3	1.81	0.62
1:n:231:ASP:HB3	1:n:236:LYS:HE2	1.80	0.62
1:C:317:ARG:HD3	1:D:265:MET:CE	2.29	0.62
1:F:179:ARG:HG3	1:G:61:MET:HB2	1.81	0.62
1:G:231:ASP:CB	1:G:236:LYS:HE2	2.28	0.62
1:p:231:ASP:HB3	1:p:236:LYS:HE2	1.80	0.62
1:G:179:ARG:HG3	1:H:61:MET:HB2	1.81	0.62
1:P:231:ASP:HB3	1:P:236:LYS:HE2	1.80	0.62
1:Q:231:ASP:HB3	1:Q:236:LYS:HE2	1.80	0.62
1:a:179:ARG:HG3	1:e:61:MET:HB2	1.81	0.62
1:i:231:ASP:HB3	1:i:236:LYS:HE2	1.80	0.62
1:k:231:ASP:HB3	1:k:236:LYS:HE2	1.80	0.62
1:D:286:MET:HE2	1:D:396:ILE:HB	1.82	0.62
1:I:231:ASP:CG	1:I:236:LYS:HE2	2.25	0.62
1:M:179:ARG:HG3	1:N:61:MET:HB2	1.81	0.62
1:M:317:ARG:HD3	1:N:265:MET:CE	2.28	0.62
1:R:231:ASP:HB3	1:R:236:LYS:HE2	1.80	0.62
1:d:286:MET:HE2	1:d:396:ILE:HB	1.82	0.62
1:g:317:ARG:HD3	1:h:265:MET:CE	2.28	0.62
1:F:317:ARG:HD3	1:G:265:MET:CE	2.28	0.62
1:H:231:ASP:CG	1:H:236:LYS:HE2	2.25	0.62
1:J:231:ASP:CG	1:J:236:LYS:HE2	2.25	0.62
1:O:231:ASP:HB3	1:O:236:LYS:HE2	1.80	0.62
1:e:286:MET:HE2	1:e:396:ILE:HB	1.82	0.62
1:m:231:ASP:HB3	1:m:236:LYS:HE2	1.80	0.62
1:o:61:MET:HB2	1:q:179:ARG:HG3	1.81	0.62
1:q:231:ASP:CG	1:q:236:LYS:HE2	2.25	0.62
1:C:286:MET:HE2	1:C:396:ILE:HB	1.82	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:179:ARG:HG3	1:E:61:MET:HB2	1.81	0.62
1:E:286:MET:HE2	1:E:396:ILE:HB	1.82	0.62
1:G:231:ASP:CG	1:G:236:LYS:HE2	2.25	0.62
1:J:179:ARG:HG3	1:K:61:MET:HB2	1.81	0.62
1:N:179:ARG:HG3	1:O:61:MET:HB2	1.82	0.62
1:P:286:MET:HE2	1:P:396:ILE:HB	1.82	0.62
1:c:231:ASP:CG	1:c:236:LYS:HE2	2.25	0.62
1:h:231:ASP:CG	1:h:236:LYS:HE2	2.25	0.62
1:l:231:ASP:CB	1:l:236:LYS:HE2	2.28	0.62
1:A:317:ARG:HD3	1:B:265:MET:CE	2.27	0.62
1:B:231:ASP:CG	1:B:236:LYS:HE2	2.25	0.62
1:E:179:ARG:HG3	1:F:61:MET:HB2	1.81	0.62
1:K:231:ASP:CG	1:K:236:LYS:HE2	2.25	0.62
1:L:231:ASP:CB	1:L:236:LYS:HE2	2.28	0.62
1:P:231:ASP:CG	1:P:236:LYS:HE2	2.25	0.62
1:Q:286:MET:HE2	1:Q:396:ILE:HB	1.82	0.62
1:f:286:MET:HE2	1:f:396:ILE:HB	1.82	0.62
1:m:265:MET:CE	1:n:317:ARG:HD3	2.28	0.62
1:o:231:ASP:CG	1:o:236:LYS:HE2	2.25	0.62
1:o:265:MET:CE	1:q:317:ARG:HD3	2.29	0.62
1:F:231:ASP:CG	1:F:236:LYS:HE2	2.25	0.62
1:I:317:ARG:HD3	1:J:265:MET:CE	2.29	0.62
1:a:231:ASP:CG	1:a:236:LYS:HE2	2.25	0.62
1:i:231:ASP:CG	1:i:236:LYS:HE2	2.25	0.62
1:i:286:MET:HE2	1:i:396:ILE:HB	1.82	0.62
1:j:179:ARG:HG3	1:n:61:MET:HB2	1.82	0.62
1:j:317:ARG:HD3	1:n:265:MET:CE	2.29	0.62
1:p:286:MET:HE2	1:p:396:ILE:HB	1.82	0.62
1:c:61:MET:HB2	1:h:179:ARG:HG3	1.82	0.62
1:g:179:ARG:HG3	1:h:61:MET:HB2	1.82	0.62
1:g:231:ASP:CG	1:g:236:LYS:HE2	2.25	0.62
1:m:231:ASP:CG	1:m:236:LYS:HE2	2.25	0.62
1:E:481:VAL:HG13	1:E:482:PRO:HD2	1.82	0.61
1:G:317:ARG:HD3	1:H:265:MET:CE	2.30	0.61
1:L:231:ASP:CG	1:L:236:LYS:HE2	2.25	0.61
1:N:317:ARG:HD3	1:O:265:MET:CE	2.29	0.61
1:O:231:ASP:CG	1:O:236:LYS:HE2	2.25	0.61
1:b:231:ASP:CG	1:b:236:LYS:HE2	2.25	0.61
1:d:61:MET:HB2	1:e:179:ARG:HG3	1.81	0.61
1:i:179:ARG:HG3	1:p:61:MET:HB2	1.81	0.61
1:j:61:MET:HB2	1:l:179:ARG:HG3	1.81	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:179:ARG:HG3	1:D:61:MET:HB2	1.82	0.61
1:D:481:VAL:HG13	1:D:482:PRO:HD2	1.82	0.61
1:E:231:ASP:CG	1:E:236:LYS:HE2	2.25	0.61
1:H:286:MET:HE2	1:H:396:ILE:HB	1.82	0.61
1:O:360:GLN:N	1:O:370:THR:O	2.33	0.61
1:a:286:MET:HE2	1:a:396:ILE:HB	1.82	0.61
1:g:481:VAL:HG13	1:g:482:PRO:HD2	1.82	0.61
1:i:360:GLN:N	1:i:370:THR:O	2.33	0.61
1:l:231:ASP:CG	1:l:236:LYS:HE2	2.25	0.61
1:C:231:ASP:CG	1:C:236:LYS:HE2	2.25	0.61
1:C:481:VAL:HG13	1:C:482:PRO:HD2	1.82	0.61
1:F:481:VAL:HG13	1:F:482:PRO:HD2	1.83	0.61
1:G:481:VAL:HG13	1:G:482:PRO:HD2	1.83	0.61
1:H:481:VAL:HG13	1:H:482:PRO:HD2	1.82	0.61
1:O:317:ARG:HD3	1:P:265:MET:CE	2.29	0.61
1:P:360:GLN:N	1:P:370:THR:O	2.33	0.61
1:Q:231:ASP:CG	1:Q:236:LYS:HE2	2.25	0.61
1:R:286:MET:HE2	1:R:396:ILE:HB	1.82	0.61
1:a:481:VAL:HG13	1:a:482:PRO:HD2	1.82	0.61
1:c:286:MET:HE2	1:c:396:ILE:HB	1.82	0.61
1:c:481:VAL:HG13	1:c:482:PRO:HD2	1.82	0.61
1:f:231:ASP:CG	1:f:236:LYS:HE2	2.25	0.61
1:h:481:VAL:HG13	1:h:482:PRO:HD2	1.82	0.61
1:j:231:ASP:CG	1:j:236:LYS:HE2	2.25	0.61
1:m:360:GLN:N	1:m:370:THR:O	2.33	0.61
1:p:231:ASP:CG	1:p:236:LYS:HE2	2.25	0.61
1:B:286:MET:HE2	1:B:396:ILE:HB	1.82	0.61
1:I:286:MET:HE2	1:I:396:ILE:HB	1.82	0.61
1:I:481:VAL:HG13	1:I:482:PRO:HD2	1.83	0.61
1:K:179:ARG:HG3	1:L:61:MET:HB2	1.82	0.61
1:M:231:ASP:CG	1:M:236:LYS:HE2	2.25	0.61
1:N:360:GLN:N	1:N:370:THR:O	2.33	0.61
1:d:481:VAL:HG13	1:d:482:PRO:HD2	1.83	0.61
1:e:231:ASP:CG	1:e:236:LYS:HE2	2.25	0.61
1:e:481:VAL:HG13	1:e:482:PRO:HD2	1.83	0.61
1:B:481:VAL:HG13	1:B:482:PRO:HD2	1.83	0.61
1:H:317:ARG:HD3	1:I:265:MET:CE	2.28	0.61
1:Q:179:ARG:HG3	1:R:61:MET:HB2	1.82	0.61
1:f:481:VAL:HG13	1:f:482:PRO:HD2	1.83	0.61
1:n:360:GLN:N	1:n:370:THR:O	2.33	0.61
1:q:61:MET:HB2	1:r:179:ARG:HG3	1.81	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:r:481:VAL:HG13	1:r:482:PRO:HD2	1.83	0.61
1:b:481:VAL:HG13	1:b:482:PRO:HD2	1.82	0.61
1:k:61:MET:HB2	1:p:179:ARG:HG3	1.82	0.61
1:n:231:ASP:CG	1:n:236:LYS:HE2	2.25	0.61
1:q:481:VAL:HG13	1:q:482:PRO:HD2	1.83	0.61
1:A:481:VAL:HG13	1:A:482:PRO:HD2	1.83	0.61
1:D:231:ASP:CG	1:D:236:LYS:HE2	2.25	0.61
1:F:286:MET:HE2	1:F:396:ILE:HB	1.82	0.61
1:J:481:VAL:HG13	1:J:482:PRO:HD2	1.83	0.61
1:d:231:ASP:CG	1:d:236:LYS:HE2	2.25	0.61
1:j:286:MET:HE2	1:j:396:ILE:HB	1.82	0.61
1:k:286:MET:HE2	1:k:396:ILE:HB	1.82	0.61
1:m:286:MET:HE2	1:m:396:ILE:HB	1.82	0.61
1:M:360:GLN:N	1:M:370:THR:O	2.33	0.61
1:O:286:MET:HE2	1:O:396:ILE:HB	1.82	0.61
1:h:286:MET:HE2	1:h:396:ILE:HB	1.82	0.61
1:A:360:GLN:N	1:A:370:THR:O	2.33	0.61
1:L:179:ARG:HG3	1:M:61:MET:HB2	1.81	0.61
1:N:231:ASP:CG	1:N:236:LYS:HE2	2.25	0.61
1:R:360:GLN:N	1:R:370:THR:O	2.33	0.61
1:R:481:VAL:HG13	1:R:482:PRO:HD2	1.83	0.61
1:a:360:GLN:N	1:a:370:THR:O	2.33	0.61
1:b:360:GLN:N	1:b:370:THR:O	2.33	0.61
1:g:286:MET:HE2	1:g:396:ILE:HB	1.82	0.61
1:k:231:ASP:CG	1:k:236:LYS:HE2	2.25	0.61
1:k:360:GLN:N	1:k:370:THR:O	2.33	0.61
1:l:61:MET:HB2	1:o:179:ARG:HG3	1.82	0.61
1:l:286:MET:HE2	1:l:396:ILE:HB	1.82	0.61
1:o:481:VAL:HG13	1:o:482:PRO:HD2	1.82	0.61
1:B:360:GLN:N	1:B:370:THR:O	2.33	0.61
1:G:286:MET:HE2	1:G:396:ILE:HB	1.82	0.61
1:K:481:VAL:HG13	1:K:482:PRO:HD2	1.83	0.61
1:L:286:MET:HE2	1:L:396:ILE:HB	1.82	0.61
1:M:286:MET:HE2	1:M:396:ILE:HB	1.82	0.61
1:P:179:ARG:HG3	1:Q:61:MET:HB2	1.82	0.61
1:R:231:ASP:CG	1:R:236:LYS:HE2	2.25	0.61
1:c:265:MET:CE	1:h:317:ARG:HD3	2.31	0.61
1:i:481:VAL:HG13	1:i:482:PRO:HD2	1.82	0.61
1:j:360:GLN:N	1:j:370:THR:O	2.33	0.61
1:E:360:GLN:N	1:E:370:THR:O	2.33	0.60
1:F:360:GLN:N	1:F:370:THR:O	2.33	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:P:481:VAL:HG13	1:P:482:PRO:HD2	1.82	0.60
1:Q:481:VAL:HG13	1:Q:482:PRO:HD2	1.83	0.60
1:d:179:ARG:HG3	1:f:61:MET:HB2	1.82	0.60
1:k:481:VAL:HG13	1:k:482:PRO:HD2	1.83	0.60
1:l:265:MET:CE	1:o:317:ARG:HD3	2.29	0.60
1:K:317:ARG:HD3	1:L:265:MET:CE	2.30	0.60
1:Q:360:GLN:N	1:Q:370:THR:O	2.33	0.60
1:f:360:GLN:N	1:f:370:THR:O	2.33	0.60
1:k:265:MET:CE	1:p:317:ARG:HD3	2.29	0.60
1:p:360:GLN:N	1:p:370:THR:O	2.33	0.60
1:p:481:VAL:HG13	1:p:482:PRO:HD2	1.83	0.60
1:D:360:GLN:N	1:D:370:THR:O	2.33	0.60
1:I:179:ARG:HG3	1:J:61:MET:HB2	1.82	0.60
1:L:360:GLN:N	1:L:370:THR:O	2.33	0.60
1:O:481:VAL:HG13	1:O:482:PRO:HD2	1.83	0.60
1:b:286:MET:HE2	1:b:396:ILE:HB	1.82	0.60
1:c:179:ARG:HG3	1:r:61:MET:HB2	1.81	0.60
1:c:317:ARG:HD3	1:r:265:MET:CE	2.29	0.60
1:g:360:GLN:N	1:g:370:THR:O	2.33	0.60
1:h:360:GLN:N	1:h:370:THR:O	2.33	0.60
1:m:481:VAL:HG13	1:m:482:PRO:HD2	1.83	0.60
1:G:360:GLN:N	1:G:370:THR:O	2.33	0.60
1:H:179:ARG:HG3	1:I:61:MET:HB2	1.81	0.60
1:L:481:VAL:HG13	1:L:482:PRO:HD2	1.82	0.60
1:N:481:VAL:HG13	1:N:482:PRO:HD2	1.83	0.60
1:P:358:GLN:HE22	1:P:377:LYS:HA	1.67	0.60
1:J:286:MET:HE2	1:J:396:ILE:HB	1.82	0.60
1:b:358:GLN:HE22	1:b:377:LYS:HA	1.66	0.60
1:d:360:GLN:N	1:d:370:THR:O	2.33	0.60
1:i:358:GLN:HE22	1:i:377:LYS:HA	1.67	0.60
1:j:481:VAL:HG13	1:j:482:PRO:HD2	1.82	0.60
1:l:360:GLN:N	1:l:370:THR:O	2.33	0.60
1:l:481:VAL:HG13	1:l:482:PRO:HD2	1.83	0.60
1:n:481:VAL:HG13	1:n:482:PRO:HD2	1.83	0.60
1:H:184:ILE:HG22	1:H:185:LYS:H	1.66	0.60
1:a:358:GLN:HE22	1:a:377:LYS:HA	1.66	0.60
1:c:184:ILE:HG22	1:c:185:LYS:H	1.67	0.60
1:h:184:ILE:HG22	1:h:185:LYS:H	1.66	0.60
1:i:265:MET:CE	1:m:317:ARG:HD3	2.30	0.60
1:l:343:ARG:O	1:l:347:LEU:HD12	2.02	0.60
1:A:358:GLN:HE22	1:A:377:LYS:HA	1.67	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:358:GLN:HE22	1:H:377:LYS:HA	1.67	0.60
1:M:481:VAL:HG13	1:M:482:PRO:HD2	1.83	0.60
1:N:286:MET:HE2	1:N:396:ILE:HB	1.82	0.60
1:p:358:GLN:HE22	1:p:377:LYS:HA	1.67	0.60
1:q:286:MET:HE2	1:q:396:ILE:HB	1.82	0.60
1:C:360:GLN:N	1:C:370:THR:O	2.33	0.60
1:G:184:ILE:HG22	1:G:185:LYS:H	1.67	0.60
1:J:184:ILE:HG22	1:J:185:LYS:H	1.66	0.60
1:K:343:ARG:O	1:K:347:LEU:HD12	2.02	0.60
1:L:343:ARG:O	1:L:347:LEU:HD12	2.02	0.60
1:Q:358:GLN:HE22	1:Q:377:LYS:HA	1.67	0.60
1:c:358:GLN:HE22	1:c:377:LYS:HA	1.67	0.60
1:o:286:MET:HE2	1:o:396:ILE:HB	1.82	0.60
1:o:343:ARG:O	1:o:347:LEU:HD12	2.02	0.60
1:B:15:GLN:CD	1:B:24:LEU:HD12	2.27	0.60
1:E:184:ILE:HG22	1:E:185:LYS:H	1.66	0.60
1:J:343:ARG:O	1:J:347:LEU:HD12	2.02	0.60
1:K:179:ARG:HD2	1:L:61:MET:SD	2.42	0.60
1:M:343:ARG:O	1:M:347:LEU:HD12	2.02	0.60
1:M:358:GLN:HE22	1:M:377:LYS:HA	1.67	0.60
1:Q:15:GLN:CD	1:Q:24:LEU:HD12	2.27	0.60
1:R:15:GLN:CD	1:R:24:LEU:HD12	2.27	0.60
1:a:15:GLN:CD	1:a:24:LEU:HD12	2.27	0.60
1:a:61:MET:SD	1:b:179:ARG:HD2	2.42	0.60
1:b:15:GLN:CD	1:b:24:LEU:HD12	2.27	0.60
1:c:360:GLN:N	1:c:370:THR:O	2.33	0.60
1:d:15:GLN:CD	1:d:24:LEU:HD12	2.27	0.60
1:i:177:VAL:HB	1:p:63:ILE:HB	1.84	0.60
1:j:343:ARG:O	1:j:347:LEU:HD12	2.02	0.60
1:k:15:GLN:CD	1:k:24:LEU:HD12	2.27	0.60
1:p:15:GLN:CD	1:p:24:LEU:HD12	2.27	0.60
1:A:15:GLN:CD	1:A:24:LEU:HD12	2.27	0.60
1:D:15:GLN:CD	1:D:24:LEU:HD12	2.27	0.60
1:F:358:GLN:HE22	1:F:377:LYS:HA	1.66	0.60
1:G:15:GLN:CD	1:G:24:LEU:HD12	2.27	0.60
1:H:360:GLN:N	1:H:370:THR:O	2.33	0.60
1:I:15:GLN:CD	1:I:24:LEU:HD12	2.27	0.60
1:K:286:MET:HE2	1:K:396:ILE:HB	1.82	0.60
1:M:177:VAL:HB	1:N:63:ILE:HB	1.84	0.60
1:N:358:GLN:HE22	1:N:377:LYS:HA	1.66	0.60
1:P:15:GLN:CD	1:P:24:LEU:HD12	2.27	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:a:177:VAL:HB	1:e:63:ILE:HB	1.84	0.60
1:e:360:GLN:N	1:e:370:THR:O	2.33	0.60
1:f:184:ILE:HG22	1:f:185:LYS:H	1.66	0.60
1:i:15:GLN:CD	1:i:24:LEU:HD12	2.27	0.60
1:n:286:MET:HE2	1:n:396:ILE:HB	1.82	0.60
1:n:358:GLN:HE22	1:n:377:LYS:HA	1.66	0.60
1:q:184:ILE:HG22	1:q:185:LYS:H	1.66	0.60
1:r:15:GLN:CD	1:r:24:LEU:HD12	2.27	0.60
1:A:465:GLN:HA	1:A:468:ILE:HD12	1.84	0.59
1:D:231:ASP:CG	1:D:236:LYS:CE	2.75	0.59
1:H:177:VAL:HB	1:I:63:ILE:HB	1.84	0.59
1:J:358:GLN:HE22	1:J:377:LYS:HA	1.66	0.59
1:K:15:GLN:CD	1:K:24:LEU:HD12	2.27	0.59
1:L:177:VAL:HB	1:M:63:ILE:HB	1.84	0.59
1:O:15:GLN:CD	1:O:24:LEU:HD12	2.27	0.59
1:d:265:MET:CE	1:e:317:ARG:HD3	2.28	0.59
1:g:358:GLN:HE22	1:g:377:LYS:HA	1.66	0.59
1:h:15:GLN:CD	1:h:24:LEU:HD12	2.27	0.59
1:j:15:GLN:CD	1:j:24:LEU:HD12	2.27	0.59
1:j:358:GLN:HE22	1:j:377:LYS:HA	1.67	0.59
1:m:15:GLN:CD	1:m:24:LEU:HD12	2.27	0.59
1:n:15:GLN:CD	1:n:24:LEU:HD12	2.27	0.59
1:n:343:ARG:O	1:n:347:LEU:HD12	2.02	0.59
1:q:343:ARG:O	1:q:347:LEU:HD12	2.02	0.59
1:B:358:GLN:HE22	1:B:377:LYS:HA	1.67	0.59
1:C:231:ASP:CG	1:C:236:LYS:CE	2.75	0.59
1:E:231:ASP:CG	1:E:236:LYS:CE	2.75	0.59
1:J:15:GLN:CD	1:J:24:LEU:HD12	2.27	0.59
1:K:360:GLN:N	1:K:370:THR:O	2.33	0.59
1:L:15:GLN:CD	1:L:24:LEU:HD12	2.27	0.59
1:N:15:GLN:CD	1:N:24:LEU:HD12	2.27	0.59
1:N:343:ARG:O	1:N:347:LEU:HD12	2.02	0.59
1:d:63:ILE:HB	1:e:177:VAL:HB	1.84	0.59
1:d:231:ASP:CG	1:d:236:LYS:CE	2.75	0.59
1:g:15:GLN:CD	1:g:24:LEU:HD12	2.27	0.59
1:g:184:ILE:HG22	1:g:185:LYS:H	1.66	0.59
1:l:15:GLN:CD	1:l:24:LEU:HD12	2.27	0.59
1:m:343:ARG:O	1:m:347:LEU:HD12	2.02	0.59
1:q:15:GLN:CD	1:q:24:LEU:HD12	2.27	0.59
1:r:343:ARG:O	1:r:347:LEU:HD12	2.02	0.59
1:A:177:VAL:HB	1:B:63:ILE:HB	1.85	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:15:GLN:CD	1:E:24:LEU:HD12	2.27	0.59
1:I:343:ARG:O	1:I:347:LEU:HD12	2.02	0.59
1:M:15:GLN:CD	1:M:24:LEU:HD12	2.27	0.59
1:d:358:GLN:HE22	1:d:377:LYS:HA	1.66	0.59
1:e:231:ASP:CG	1:e:236:LYS:CE	2.75	0.59
1:f:231:ASP:CG	1:f:236:LYS:CE	2.75	0.59
1:o:15:GLN:CD	1:o:24:LEU:HD12	2.27	0.59
1:q:358:GLN:HE22	1:q:377:LYS:HA	1.67	0.59
1:B:231:ASP:CG	1:B:236:LYS:CE	2.75	0.59
1:F:15:GLN:CD	1:F:24:LEU:HD12	2.27	0.59
1:F:184:ILE:HG22	1:F:185:LYS:H	1.66	0.59
1:F:231:ASP:CG	1:F:236:LYS:CE	2.75	0.59
1:G:343:ARG:O	1:G:347:LEU:HD12	2.02	0.59
1:O:184:ILE:HG22	1:O:185:LYS:H	1.66	0.59
1:O:343:ARG:O	1:O:347:LEU:HD12	2.02	0.59
1:c:61:MET:SD	1:h:179:ARG:HD2	2.43	0.59
1:h:343:ARG:O	1:h:347:LEU:HD12	2.02	0.59
1:o:360:GLN:N	1:o:370:THR:O	2.33	0.59
1:G:179:ARG:HD2	1:H:61:MET:SD	2.43	0.59
1:I:184:ILE:HG22	1:I:185:LYS:H	1.66	0.59
1:J:231:ASP:CG	1:J:236:LYS:CE	2.75	0.59
1:a:231:ASP:CG	1:a:236:LYS:CE	2.75	0.59
1:a:265:MET:CE	1:b:317:ARG:HD3	2.30	0.59
1:c:15:GLN:CD	1:c:24:LEU:HD12	2.27	0.59
1:c:343:ARG:O	1:c:347:LEU:HD12	2.02	0.59
1:e:184:ILE:HG22	1:e:185:LYS:H	1.66	0.59
1:g:343:ARG:O	1:g:347:LEU:HD12	2.02	0.59
1:i:343:ARG:O	1:i:347:LEU:HD12	2.02	0.59
1:j:63:ILE:HB	1:l:177:VAL:HB	1.85	0.59
1:m:184:ILE:HG22	1:m:185:LYS:H	1.66	0.59
1:q:231:ASP:CG	1:q:236:LYS:CE	2.75	0.59
1:C:15:GLN:CD	1:C:24:LEU:HD12	2.27	0.59
1:D:177:VAL:HB	1:E:63:ILE:HB	1.85	0.59
1:D:358:GLN:HE22	1:D:377:LYS:HA	1.67	0.59
1:F:343:ARG:O	1:F:347:LEU:HD12	2.02	0.59
1:H:15:GLN:CD	1:H:24:LEU:HD12	2.27	0.59
1:H:343:ARG:O	1:H:347:LEU:HD12	2.02	0.59
1:I:231:ASP:CG	1:I:236:LYS:CE	2.75	0.59
1:P:343:ARG:O	1:P:347:LEU:HD12	2.02	0.59
1:d:184:ILE:HG22	1:d:185:LYS:H	1.66	0.59
1:e:15:GLN:CD	1:e:24:LEU:HD12	2.27	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:f:15:GLN:CD	1:f:24:LEU:HD12	2.27	0.59
1:g:231:ASP:CG	1:g:236:LYS:CE	2.75	0.59
1:i:184:ILE:HG22	1:i:185:LYS:H	1.66	0.59
1:i:231:ASP:CG	1:i:236:LYS:CE	2.75	0.59
1:m:231:ASP:CG	1:m:236:LYS:CE	2.75	0.59
1:r:184:ILE:HG22	1:r:185:LYS:H	1.67	0.59
1:C:343:ARG:O	1:C:347:LEU:HD12	2.02	0.59
1:I:360:GLN:N	1:I:370:THR:O	2.33	0.59
1:K:358:GLN:HE22	1:K:377:LYS:HA	1.66	0.59
1:Q:317:ARG:HD3	1:R:265:MET:CE	2.31	0.59
1:b:231:ASP:CG	1:b:236:LYS:CE	2.75	0.59
1:e:343:ARG:O	1:e:347:LEU:HD12	2.02	0.59
1:k:184:ILE:HG22	1:k:185:LYS:H	1.66	0.59
1:p:184:ILE:HG22	1:p:185:LYS:H	1.66	0.59
1:r:360:GLN:N	1:r:370:THR:O	2.33	0.59
1:C:184:ILE:HG22	1:C:185:LYS:H	1.67	0.59
1:D:184:ILE:HG22	1:D:185:LYS:H	1.67	0.59
1:G:231:ASP:CG	1:G:236:LYS:CE	2.75	0.59
1:O:231:ASP:CG	1:O:236:LYS:CE	2.75	0.59
1:P:184:ILE:HG22	1:P:185:LYS:H	1.66	0.59
1:P:231:ASP:CG	1:P:236:LYS:CE	2.75	0.59
1:R:184:ILE:HG22	1:R:185:LYS:H	1.67	0.59
1:h:231:ASP:CG	1:h:236:LYS:CE	2.75	0.59
1:m:358:GLN:HE22	1:m:377:LYS:HA	1.67	0.59
1:p:231:ASP:CG	1:p:236:LYS:CE	2.75	0.59
1:Q:231:ASP:CG	1:Q:236:LYS:CE	2.75	0.59
1:d:179:ARG:HD2	1:f:61:MET:SD	2.43	0.59
1:f:358:GLN:HE22	1:f:377:LYS:HA	1.67	0.59
1:n:231:ASP:CG	1:n:236:LYS:CE	2.75	0.59
1:o:184:ILE:HG22	1:o:185:LYS:H	1.67	0.59
1:p:343:ARG:O	1:p:347:LEU:HD12	2.02	0.59
1:q:63:ILE:HB	1:r:177:VAL:HB	1.85	0.59
1:B:184:ILE:HG22	1:B:185:LYS:H	1.67	0.59
1:C:358:GLN:HE22	1:C:377:LYS:HA	1.67	0.59
1:D:343:ARG:O	1:D:347:LEU:HD12	2.02	0.59
1:E:358:GLN:HE22	1:E:377:LYS:HA	1.67	0.59
1:K:184:ILE:HG22	1:K:185:LYS:H	1.67	0.59
1:K:198:THR:OG1	1:K:199:GLY:N	2.36	0.59
1:L:184:ILE:HG22	1:L:185:LYS:H	1.67	0.59
1:M:231:ASP:CG	1:M:236:LYS:CE	2.75	0.59
1:N:179:ARG:HD2	1:O:61:MET:SD	2.43	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Q:179:ARG:HD2	1:R:61:MET:SD	2.43	0.59
1:Q:184:ILE:HG22	1:Q:185:LYS:H	1.66	0.59
1:a:184:ILE:HG22	1:a:185:LYS:H	1.67	0.59
1:e:358:GLN:HE22	1:e:377:LYS:HA	1.67	0.59
1:f:177:VAL:HB	1:g:63:ILE:HB	1.85	0.59
1:j:231:ASP:CG	1:j:236:LYS:CE	2.75	0.59
1:k:358:GLN:HE22	1:k:377:LYS:HA	1.67	0.59
1:l:184:ILE:HG22	1:l:185:LYS:H	1.67	0.59
1:o:198:THR:OG1	1:o:199:GLY:N	2.36	0.59
1:o:358:GLN:HE22	1:o:377:LYS:HA	1.67	0.59
1:L:358:GLN:HE22	1:L:377:LYS:HA	1.66	0.58
1:N:231:ASP:CG	1:N:236:LYS:CE	2.75	0.58
1:Q:343:ARG:O	1:Q:347:LEU:HD12	2.02	0.58
1:R:231:ASP:CG	1:R:236:LYS:CE	2.75	0.58
1:d:343:ARG:O	1:d:347:LEU:HD12	2.02	0.58
1:i:61:MET:SD	1:m:179:ARG:HD2	2.43	0.58
1:k:231:ASP:CG	1:k:236:LYS:CE	2.75	0.58
1:k:343:ARG:O	1:k:347:LEU:HD12	2.02	0.58
1:l:61:MET:SD	1:o:179:ARG:HD2	2.43	0.58
1:r:465:GLN:HA	1:r:468:ILE:HD12	1.84	0.58
1:J:360:GLN:N	1:J:370:THR:O	2.33	0.58
1:O:358:GLN:HE22	1:O:377:LYS:HA	1.67	0.58
1:b:63:ILE:HB	1:k:177:VAL:HB	1.85	0.58
1:j:184:ILE:HG22	1:j:185:LYS:H	1.66	0.58
1:j:198:THR:OG1	1:j:199:GLY:N	2.36	0.58
1:l:358:GLN:HE22	1:l:377:LYS:HA	1.67	0.58
1:o:231:ASP:CG	1:o:236:LYS:CE	2.75	0.58
1:H:231:ASP:CG	1:H:236:LYS:CE	2.75	0.58
1:K:231:ASP:CG	1:K:236:LYS:CE	2.75	0.58
1:R:343:ARG:O	1:R:347:LEU:HD12	2.02	0.58
1:b:343:ARG:O	1:b:347:LEU:HD12	2.02	0.58
1:c:231:ASP:CG	1:c:236:LYS:CE	2.75	0.58
1:G:358:GLN:HE22	1:G:377:LYS:HA	1.67	0.58
1:L:231:ASP:CG	1:L:236:LYS:CE	2.75	0.58
1:M:184:ILE:HG22	1:M:185:LYS:H	1.66	0.58
1:M:198:THR:OG1	1:M:199:GLY:N	2.36	0.58
1:N:198:THR:OG1	1:N:199:GLY:N	2.36	0.58
1:O:177:VAL:HB	1:P:63:ILE:HB	1.85	0.58
1:h:358:GLN:HE22	1:h:377:LYS:HA	1.67	0.58
1:q:360:GLN:N	1:q:370:THR:O	2.33	0.58
1:C:179:ARG:HD2	1:D:61:MET:SD	2.43	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:117:GLN:NE2	1:n:257:TYR:HE2	2.02	0.58
1:P:177:VAL:HB	1:Q:63:ILE:HB	1.86	0.58
1:n:198:THR:OG1	1:n:199:GLY:N	2.36	0.58
1:A:343:ARG:O	1:A:347:LEU:HD12	2.02	0.58
1:I:358:GLN:HE22	1:I:377:LYS:HA	1.67	0.58
1:J:177:VAL:HB	1:K:63:ILE:HB	1.85	0.58
1:R:358:GLN:HE22	1:R:377:LYS:HA	1.67	0.58
1:a:343:ARG:O	1:a:347:LEU:HD12	2.02	0.58
1:g:177:VAL:HB	1:h:63:ILE:HB	1.86	0.58
1:j:177:VAL:HB	1:n:63:ILE:HB	1.86	0.58
1:m:63:ILE:HB	1:n:177:VAL:HB	1.86	0.58
1:E:177:VAL:HB	1:F:63:ILE:HB	1.86	0.58
1:E:343:ARG:O	1:E:347:LEU:HD12	2.02	0.58
1:f:343:ARG:O	1:f:347:LEU:HD12	2.02	0.58
1:l:231:ASP:CG	1:l:236:LYS:CE	2.75	0.58
1:B:343:ARG:O	1:B:347:LEU:HD12	2.02	0.58
1:D:198:THR:OG1	1:D:199:GLY:N	2.36	0.58
1:F:177:VAL:HB	1:G:63:ILE:HB	1.86	0.58
1:i:198:THR:OG1	1:i:199:GLY:N	2.36	0.58
1:r:358:GLN:HE22	1:r:377:LYS:HA	1.66	0.58
1:J:117:GLN:NE2	1:q:257:TYR:HE2	2.02	0.58
1:P:198:THR:OG1	1:P:199:GLY:N	2.36	0.58
1:c:198:THR:OG1	1:c:199:GLY:N	2.36	0.58
1:d:198:THR:OG1	1:d:199:GLY:N	2.36	0.58
1:j:179:ARG:HD2	1:n:61:MET:SD	2.44	0.58
1:B:177:VAL:HB	1:C:63:ILE:HB	1.86	0.58
1:C:117:GLN:NE2	1:p:257:TYR:HE2	2.02	0.58
1:H:198:THR:OG1	1:H:199:GLY:N	2.36	0.58
1:L:198:THR:OG1	1:L:199:GLY:N	2.36	0.58
1:M:117:GLN:NE2	1:h:257:TYR:HE2	2.01	0.58
1:n:184:ILE:HG22	1:n:185:LYS:H	1.66	0.58
1:G:117:GLN:NE2	1:j:257:TYR:HE2	2.02	0.57
1:I:198:THR:OG1	1:I:199:GLY:N	2.36	0.57
1:E:117:GLN:NE2	1:m:257:TYR:HE2	2.02	0.57
1:N:184:ILE:HG22	1:N:185:LYS:H	1.66	0.57
1:q:198:THR:OG1	1:q:199:GLY:N	2.36	0.57
1:A:63:ILE:HB	1:R:177:VAL:HB	1.87	0.57
1:r:198:THR:OG1	1:r:199:GLY:N	2.36	0.57
1:I:179:ARG:HD2	1:J:61:MET:SD	2.44	0.57
1:c:179:ARG:HD2	1:r:61:MET:SD	2.45	0.57
1:g:179:ARG:HD2	1:h:61:MET:SD	2.45	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:l:198:THR:OG1	1:l:199:GLY:N	2.36	0.57
1:A:184:ILE:HG22	1:A:185:LYS:H	1.66	0.57
1:B:115:LYS:C	1:B:116:ILE:HD13	2.30	0.57
1:E:179:ARG:HD2	1:F:61:MET:SD	2.44	0.57
1:J:198:THR:OG1	1:J:199:GLY:N	2.36	0.57
1:P:179:ARG:HD2	1:Q:61:MET:SD	2.45	0.57
1:Q:117:GLN:NE2	1:e:257:TYR:HE2	2.02	0.57
1:R:115:LYS:C	1:R:116:ILE:HD13	2.30	0.57
1:b:184:ILE:HG22	1:b:185:LYS:H	1.67	0.57
1:o:63:ILE:HB	1:q:177:VAL:HB	1.86	0.57
1:P:115:LYS:C	1:P:116:ILE:HD13	2.30	0.57
1:Q:115:LYS:C	1:Q:116:ILE:HD13	2.30	0.57
1:a:115:LYS:C	1:a:116:ILE:HD13	2.30	0.57
1:b:115:LYS:C	1:b:116:ILE:HD13	2.30	0.57
1:h:465:GLN:HA	1:h:468:ILE:HD12	1.87	0.57
1:k:115:LYS:C	1:k:116:ILE:HD13	2.30	0.57
1:p:115:LYS:C	1:p:116:ILE:HD13	2.30	0.57
1:C:115:LYS:C	1:C:116:ILE:HD13	2.30	0.57
1:Q:198:THR:OG1	1:Q:199:GLY:N	2.36	0.57
1:e:115:LYS:C	1:e:116:ILE:HD13	2.30	0.57
1:i:115:LYS:C	1:i:116:ILE:HD13	2.30	0.57
1:k:63:ILE:HB	1:p:177:VAL:HB	1.87	0.57
1:m:115:LYS:C	1:m:116:ILE:HD13	2.30	0.57
1:O:115:LYS:C	1:O:116:ILE:HD13	2.30	0.57
1:p:198:THR:OG1	1:p:199:GLY:N	2.36	0.57
1:D:115:LYS:C	1:D:116:ILE:HD13	2.30	0.57
1:F:198:THR:OG1	1:F:199:GLY:N	2.36	0.57
1:H:465:GLN:HA	1:H:468:ILE:HD12	1.87	0.57
1:N:115:LYS:C	1:N:116:ILE:HD13	2.30	0.57
1:c:177:VAL:HB	1:r:63:ILE:HB	1.87	0.57
1:d:115:LYS:C	1:d:116:ILE:HD13	2.30	0.57
1:k:61:MET:SD	1:p:179:ARG:HD2	2.44	0.57
1:n:115:LYS:C	1:n:116:ILE:HD13	2.30	0.57
1:A:61:MET:SD	1:R:179:ARG:HD2	2.45	0.56
1:B:465:GLN:HA	1:B:468:ILE:HD12	1.87	0.56
1:F:179:ARG:HD2	1:G:61:MET:SD	2.45	0.56
1:I:117:GLN:NE2	1:o:257:TYR:HE2	2.02	0.56
1:K:465:GLN:HA	1:K:468:ILE:HD12	1.87	0.56
1:g:198:THR:OG1	1:g:199:GLY:N	2.36	0.56
1:m:198:THR:OG1	1:m:199:GLY:N	2.36	0.56
1:E:115:LYS:C	1:E:116:ILE:HD13	2.30	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:177:VAL:HB	1:J:63:ILE:HB	1.87	0.56
1:M:115:LYS:C	1:M:116:ILE:HD13	2.30	0.56
1:O:198:THR:OG1	1:O:199:GLY:N	2.36	0.56
1:j:115:LYS:C	1:j:116:ILE:HD13	2.30	0.56
1:A:198:THR:OG1	1:A:199:GLY:N	2.36	0.56
1:E:198:THR:OG1	1:E:199:GLY:N	2.36	0.56
1:N:117:GLN:NE2	1:g:257:TYR:HE2	2.03	0.56
1:O:117:GLN:NE2	1:f:257:TYR:HE2	2.02	0.56
1:R:465:GLN:HA	1:R:468:ILE:HD12	1.88	0.56
1:a:198:THR:OG1	1:a:199:GLY:N	2.36	0.56
1:b:198:THR:OG1	1:b:199:GLY:N	2.36	0.56
1:b:465:GLN:HA	1:b:468:ILE:HD12	1.87	0.56
1:c:115:LYS:C	1:c:116:ILE:HD13	2.30	0.56
1:f:115:LYS:C	1:f:116:ILE:HD13	2.30	0.56
1:f:198:THR:OG1	1:f:199:GLY:N	2.36	0.56
1:q:115:LYS:C	1:q:116:ILE:HD13	2.30	0.56
1:q:465:GLN:HA	1:q:468:ILE:HD12	1.87	0.56
1:B:198:THR:OG1	1:B:199:GLY:N	2.36	0.56
1:D:465:GLN:HA	1:D:468:ILE:HD12	1.87	0.56
1:H:115:LYS:C	1:H:116:ILE:HD13	2.30	0.56
1:J:115:LYS:C	1:J:116:ILE:HD13	2.30	0.56
1:L:115:LYS:C	1:L:116:ILE:HD13	2.30	0.56
1:d:465:GLN:HA	1:d:468:ILE:HD12	1.87	0.56
1:g:115:LYS:C	1:g:116:ILE:HD13	2.30	0.56
1:m:61:MET:SD	1:n:179:ARG:HD2	2.45	0.56
1:J:465:GLN:HA	1:J:468:ILE:HD12	1.87	0.56
1:K:117:GLN:NE2	1:r:257:TYR:HE2	2.03	0.56
1:f:179:ARG:HD2	1:g:61:MET:SD	2.45	0.56
1:f:465:GLN:HA	1:f:468:ILE:HD12	1.88	0.56
1:k:465:GLN:HA	1:k:468:ILE:HD12	1.86	0.56
1:l:115:LYS:C	1:l:116:ILE:HD13	2.30	0.56
1:F:465:GLN:HA	1:F:468:ILE:HD12	1.87	0.56
1:G:465:GLN:HA	1:G:468:ILE:HD12	1.87	0.56
1:P:117:GLN:NE2	1:d:257:TYR:HE2	2.02	0.56
1:h:198:THR:OG1	1:h:199:GLY:N	2.36	0.56
1:o:61:MET:SD	1:q:179:ARG:HD2	2.46	0.56
1:A:117:GLN:O	1:A:118:THR:CG2	2.54	0.56
1:F:115:LYS:C	1:F:116:ILE:HD13	2.30	0.56
1:N:177:VAL:HB	1:O:63:ILE:HB	1.88	0.56
1:e:465:GLN:HA	1:e:468:ILE:HD12	1.87	0.56
1:f:403:PHE:HB2	1:f:429:LEU:HB2	1.88	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:465:GLN:HA	1:E:468:ILE:HD12	1.88	0.56
1:O:179:ARG:HD2	1:P:61:MET:SD	2.45	0.56
1:d:177:VAL:HB	1:f:63:ILE:HB	1.88	0.56
1:i:465:GLN:HA	1:i:468:ILE:HD12	1.87	0.56
1:B:405:LYS:O	1:B:427:LYS:N	2.39	0.56
1:D:179:ARG:HD2	1:E:61:MET:SD	2.46	0.56
1:F:93:LEU:HD23	1:F:218:LEU:HD22	1.88	0.56
1:G:198:THR:OG1	1:G:199:GLY:N	2.36	0.56
1:I:115:LYS:C	1:I:116:ILE:HD13	2.30	0.56
1:I:465:GLN:HA	1:I:468:ILE:HD12	1.88	0.56
1:K:115:LYS:C	1:K:116:ILE:HD13	2.30	0.56
1:M:179:ARG:HD2	1:N:61:MET:SD	2.46	0.56
1:a:465:GLN:HA	1:a:468:ILE:HD12	1.87	0.56
1:n:465:GLN:HA	1:n:468:ILE:HD12	1.87	0.56
1:r:115:LYS:C	1:r:116:ILE:HD13	2.30	0.56
1:A:405:LYS:O	1:A:427:LYS:N	2.39	0.55
1:E:405:LYS:O	1:E:427:LYS:N	2.39	0.55
1:N:465:GLN:HA	1:N:468:ILE:HD12	1.87	0.55
1:o:115:LYS:C	1:o:116:ILE:HD13	2.30	0.55
1:C:405:LYS:O	1:C:427:LYS:N	2.40	0.55
1:a:405:LYS:O	1:a:427:LYS:N	2.40	0.55
1:e:405:LYS:O	1:e:427:LYS:N	2.39	0.55
1:h:115:LYS:C	1:h:116:ILE:HD13	2.30	0.55
1:A:179:ARG:HD2	1:B:61:MET:SD	2.47	0.55
1:B:179:ARG:HD2	1:C:61:MET:SD	2.46	0.55
1:D:93:LEU:HD23	1:D:218:LEU:HD22	1.88	0.55
1:F:405:LYS:O	1:F:427:LYS:N	2.39	0.55
1:G:115:LYS:C	1:G:116:ILE:HD13	2.30	0.55
1:H:117:GLN:NE2	1:l:257:TYR:HE2	2.05	0.55
1:J:179:ARG:HD2	1:K:61:MET:SD	2.46	0.55
1:d:61:MET:SD	1:e:179:ARG:HD2	2.47	0.55
1:d:405:LYS:O	1:d:427:LYS:N	2.40	0.55
1:e:93:LEU:HD23	1:e:218:LEU:HD22	1.88	0.55
1:g:93:LEU:HD23	1:g:218:LEU:HD22	1.89	0.55
1:k:405:LYS:O	1:k:427:LYS:N	2.39	0.55
1:C:177:VAL:HB	1:D:63:ILE:HB	1.89	0.55
1:Q:465:GLN:HA	1:Q:468:ILE:HD12	1.87	0.55
1:b:15:GLN:NE2	1:b:24:LEU:HD12	2.22	0.55
1:g:465:GLN:HA	1:g:468:ILE:HD12	1.89	0.55
1:A:15:GLN:NE2	1:A:24:LEU:HD12	2.22	0.55
1:A:93:LEU:HD23	1:A:218:LEU:HD22	1.89	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:93:LEU:HD23	1:C:218:LEU:HD22	1.88	0.55
1:N:15:GLN:NE2	1:N:24:LEU:HD12	2.22	0.55
1:Q:403:PHE:HB2	1:Q:429:LEU:HB2	1.88	0.55
1:b:61:MET:SD	1:k:179:ARG:HD2	2.46	0.55
1:d:93:LEU:HD23	1:d:218:LEU:HD22	1.89	0.55
1:k:15:GLN:NE2	1:k:24:LEU:HD12	2.22	0.55
1:n:15:GLN:NE2	1:n:24:LEU:HD12	2.22	0.55
1:B:15:GLN:NE2	1:B:24:LEU:HD12	2.22	0.55
1:L:465:GLN:HA	1:L:468:ILE:HD12	1.87	0.55
1:O:403:PHE:HB2	1:O:429:LEU:HB2	1.88	0.55
1:R:15:GLN:NE2	1:R:24:LEU:HD12	2.22	0.55
1:a:15:GLN:NE2	1:a:24:LEU:HD12	2.22	0.55
1:b:93:LEU:HD23	1:b:218:LEU:HD22	1.89	0.55
1:l:63:ILE:HB	1:o:177:VAL:HB	1.88	0.55
1:C:15:GLN:NE2	1:C:24:LEU:HD12	2.22	0.55
1:G:405:LYS:O	1:G:427:LYS:N	2.40	0.55
1:I:93:LEU:HD23	1:I:218:LEU:HD22	1.89	0.55
1:e:15:GLN:NE2	1:e:24:LEU:HD12	2.22	0.55
1:h:403:PHE:HB2	1:h:429:LEU:HB2	1.88	0.55
1:p:15:GLN:NE2	1:p:24:LEU:HD12	2.22	0.55
1:p:465:GLN:HA	1:p:468:ILE:HD12	1.88	0.55
1:r:93:LEU:HD23	1:r:218:LEU:HD22	1.89	0.55
1:C:198:THR:OG1	1:C:199:GLY:N	2.36	0.55
1:J:107:VAL:HG23	1:J:108:LEU:HD23	1.89	0.55
1:O:107:VAL:HG23	1:O:108:LEU:HD23	1.89	0.55
1:Q:15:GLN:NE2	1:Q:24:LEU:HD12	2.22	0.55
1:Q:177:VAL:HB	1:R:63:ILE:HB	1.89	0.55
1:j:15:GLN:NE2	1:j:24:LEU:HD12	2.22	0.55
1:q:15:GLN:NE2	1:q:24:LEU:HD12	2.22	0.55
1:q:107:VAL:HG23	1:q:108:LEU:HD23	1.89	0.55
1:B:107:VAL:HG23	1:B:108:LEU:HD23	1.89	0.55
1:I:15:GLN:NE2	1:I:24:LEU:HD12	2.22	0.55
1:J:15:GLN:NE2	1:J:24:LEU:HD12	2.22	0.55
1:K:15:GLN:NE2	1:K:24:LEU:HD12	2.22	0.55
1:M:15:GLN:NE2	1:M:24:LEU:HD12	2.22	0.55
1:O:15:GLN:NE2	1:O:24:LEU:HD12	2.22	0.55
1:d:15:GLN:NE2	1:d:24:LEU:HD12	2.22	0.55
1:k:198:THR:OG1	1:k:199:GLY:N	2.36	0.55
1:l:465:GLN:HA	1:l:468:ILE:HD12	1.87	0.55
1:o:15:GLN:NE2	1:o:24:LEU:HD12	2.22	0.55
1:q:61:MET:SD	1:r:179:ARG:HD2	2.47	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:r:15:GLN:NE2	1:r:24:LEU:HD12	2.22	0.55
1:B:146:THR:HG22	1:B:147:ALA:N	2.22	0.55
1:D:15:GLN:NE2	1:D:24:LEU:HD12	2.22	0.55
1:H:93:LEU:HD23	1:H:218:LEU:HD22	1.88	0.55
1:M:183:SER:O	1:M:184:ILE:HD13	2.07	0.55
1:M:465:GLN:HA	1:M:468:ILE:HD12	1.87	0.55
1:O:183:SER:O	1:O:184:ILE:HD13	2.07	0.55
1:P:15:GLN:NE2	1:P:24:LEU:HD12	2.22	0.55
1:P:107:VAL:HG23	1:P:108:LEU:HD23	1.89	0.55
1:a:107:VAL:HG23	1:a:108:LEU:HD23	1.89	0.55
1:a:146:THR:HG22	1:a:147:ALA:N	2.22	0.55
1:c:15:GLN:NE2	1:c:24:LEU:HD12	2.22	0.55
1:c:93:LEU:HD23	1:c:218:LEU:HD22	1.89	0.55
1:m:15:GLN:NE2	1:m:24:LEU:HD12	2.22	0.55
1:m:107:VAL:HG23	1:m:108:LEU:HD23	1.89	0.55
1:n:107:VAL:HG23	1:n:108:LEU:HD23	1.89	0.55
1:E:15:GLN:NE2	1:E:24:LEU:HD12	2.22	0.54
1:H:15:GLN:NE2	1:H:24:LEU:HD12	2.22	0.54
1:R:117:GLN:NE2	1:a:257:TYR:HE2	2.05	0.54
1:R:198:THR:OG1	1:R:199:GLY:N	2.36	0.54
1:d:143:VAL:HG22	1:d:192:ILE:HD13	1.90	0.54
1:e:198:THR:OG1	1:e:199:GLY:N	2.36	0.54
1:f:15:GLN:NE2	1:f:24:LEU:HD12	2.22	0.54
1:g:15:GLN:NE2	1:g:24:LEU:HD12	2.22	0.54
1:i:15:GLN:NE2	1:i:24:LEU:HD12	2.22	0.54
1:i:107:VAL:HG23	1:i:108:LEU:HD23	1.89	0.54
1:i:179:ARG:HD2	1:p:61:MET:SD	2.47	0.54
1:j:61:MET:SD	1:l:179:ARG:HD2	2.46	0.54
1:j:146:THR:HG22	1:j:147:ALA:N	2.22	0.54
1:j:183:SER:O	1:j:184:ILE:HD13	2.08	0.54
1:m:405:LYS:O	1:m:427:LYS:N	2.40	0.54
1:o:183:SER:O	1:o:184:ILE:HD13	2.08	0.54
1:E:143:VAL:HG22	1:E:192:ILE:HD13	1.90	0.54
1:F:15:GLN:NE2	1:F:24:LEU:HD12	2.22	0.54
1:G:15:GLN:NE2	1:G:24:LEU:HD12	2.22	0.54
1:G:93:LEU:HD23	1:G:218:LEU:HD22	1.89	0.54
1:H:179:ARG:HD2	1:I:61:MET:SD	2.47	0.54
1:J:146:THR:HG22	1:J:147:ALA:N	2.22	0.54
1:K:183:SER:O	1:K:184:ILE:HD13	2.08	0.54
1:M:146:THR:HG22	1:M:147:ALA:N	2.22	0.54
1:N:107:VAL:HG23	1:N:108:LEU:HD23	1.89	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:183:SER:O	1:N:184:ILE:HD13	2.07	0.54
1:N:405:LYS:O	1:N:427:LYS:N	2.40	0.54
1:Q:183:SER:O	1:Q:184:ILE:HD13	2.07	0.54
1:R:143:VAL:HG22	1:R:192:ILE:HD13	1.90	0.54
1:a:63:ILE:HB	1:b:177:VAL:HB	1.90	0.54
1:d:146:THR:HG22	1:d:147:ALA:N	2.22	0.54
1:f:143:VAL:HG22	1:f:192:ILE:HD13	1.90	0.54
1:h:15:GLN:NE2	1:h:24:LEU:HD12	2.22	0.54
1:j:405:LYS:O	1:j:427:LYS:N	2.39	0.54
1:k:143:VAL:HG22	1:k:192:ILE:HD13	1.90	0.54
1:l:15:GLN:NE2	1:l:24:LEU:HD12	2.22	0.54
1:m:183:SER:O	1:m:184:ILE:HD13	2.08	0.54
1:n:183:SER:O	1:n:184:ILE:HD13	2.07	0.54
1:n:405:LYS:O	1:n:427:LYS:N	2.39	0.54
1:q:405:LYS:O	1:q:427:LYS:N	2.39	0.54
1:r:107:VAL:HG23	1:r:108:LEU:HD23	1.89	0.54
1:D:143:VAL:HG22	1:D:192:ILE:HD13	1.90	0.54
1:D:146:THR:HG22	1:D:147:ALA:N	2.22	0.54
1:I:107:VAL:HG23	1:I:108:LEU:HD23	1.89	0.54
1:I:146:THR:HG22	1:I:147:ALA:N	2.22	0.54
1:K:107:VAL:HG23	1:K:108:LEU:HD23	1.89	0.54
1:L:15:GLN:NE2	1:L:24:LEU:HD12	2.22	0.54
1:L:146:THR:HG22	1:L:147:ALA:N	2.22	0.54
1:M:405:LYS:O	1:M:427:LYS:N	2.39	0.54
1:Q:143:VAL:HG22	1:Q:192:ILE:HD13	1.90	0.54
1:b:107:VAL:HG23	1:b:108:LEU:HD23	1.89	0.54
1:f:93:LEU:HD23	1:f:218:LEU:HD22	1.88	0.54
1:h:93:LEU:HD23	1:h:218:LEU:HD22	1.88	0.54
1:i:63:ILE:HB	1:m:177:VAL:HB	1.89	0.54
1:k:93:LEU:HD23	1:k:218:LEU:HD22	1.89	0.54
1:o:107:VAL:HG23	1:o:108:LEU:HD23	1.89	0.54
1:o:405:LYS:O	1:o:427:LYS:N	2.40	0.54
1:p:143:VAL:HG22	1:p:192:ILE:HD13	1.90	0.54
1:q:146:THR:HG22	1:q:147:ALA:N	2.22	0.54
1:A:107:VAL:HG23	1:A:108:LEU:HD23	1.89	0.54
1:A:143:VAL:HG22	1:A:192:ILE:HD13	1.90	0.54
1:F:143:VAL:HG22	1:F:192:ILE:HD13	1.90	0.54
1:H:146:THR:HG22	1:H:147:ALA:N	2.22	0.54
1:J:405:LYS:O	1:J:427:LYS:N	2.39	0.54
1:K:146:THR:HG22	1:K:147:ALA:N	2.22	0.54
1:L:405:LYS:O	1:L:427:LYS:N	2.40	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:143:VAL:HG22	1:N:192:ILE:HD13	1.90	0.54
1:O:146:THR:HG22	1:O:147:ALA:N	2.22	0.54
1:a:183:SER:O	1:a:184:ILE:HD13	2.08	0.54
1:g:107:VAL:HG23	1:g:108:LEU:HD23	1.89	0.54
1:j:143:VAL:HG22	1:j:192:ILE:HD13	1.90	0.54
1:k:183:SER:O	1:k:184:ILE:HD13	2.07	0.54
1:m:146:THR:HG22	1:m:147:ALA:N	2.22	0.54
1:o:146:THR:HG22	1:o:147:ALA:N	2.22	0.54
1:p:183:SER:O	1:p:184:ILE:HD13	2.08	0.54
1:r:146:THR:HG22	1:r:147:ALA:N	2.22	0.54
1:C:107:VAL:HG23	1:C:108:LEU:HD23	1.89	0.54
1:C:143:VAL:HG22	1:C:192:ILE:HD13	1.90	0.54
1:C:465:GLN:HA	1:C:468:ILE:HD12	1.88	0.54
1:E:146:THR:HG22	1:E:147:ALA:N	2.22	0.54
1:F:107:VAL:HG23	1:F:108:LEU:HD23	1.89	0.54
1:I:183:SER:O	1:I:184:ILE:HD13	2.07	0.54
1:O:143:VAL:HG22	1:O:192:ILE:HD13	1.90	0.54
1:P:143:VAL:HG22	1:P:192:ILE:HD13	1.90	0.54
1:Q:107:VAL:HG23	1:Q:108:LEU:HD23	1.89	0.54
1:R:93:LEU:HD23	1:R:218:LEU:HD22	1.89	0.54
1:R:183:SER:O	1:R:184:ILE:HD13	2.07	0.54
1:b:143:VAL:HG22	1:b:192:ILE:HD13	1.90	0.54
1:e:143:VAL:HG22	1:e:192:ILE:HD13	1.90	0.54
1:g:143:VAL:HG22	1:g:192:ILE:HD13	1.90	0.54
1:i:143:VAL:HG22	1:i:192:ILE:HD13	1.90	0.54
1:n:143:VAL:HG22	1:n:192:ILE:HD13	1.90	0.54
1:o:465:GLN:HA	1:o:468:ILE:HD12	1.88	0.54
1:r:183:SER:O	1:r:184:ILE:HD13	2.07	0.54
1:r:405:LYS:O	1:r:427:LYS:N	2.40	0.54
1:A:183:SER:O	1:A:184:ILE:HD13	2.08	0.54
1:B:183:SER:O	1:B:184:ILE:HD13	2.08	0.54
1:E:93:LEU:HD23	1:E:218:LEU:HD22	1.89	0.54
1:G:177:VAL:HB	1:H:63:ILE:HB	1.89	0.54
1:K:177:VAL:HB	1:L:63:ILE:HB	1.90	0.54
1:M:143:VAL:HG22	1:M:192:ILE:HD13	1.90	0.54
1:R:403:PHE:HB2	1:R:429:LEU:HB2	1.90	0.54
1:c:63:ILE:HB	1:h:177:VAL:HB	1.89	0.54
1:d:183:SER:O	1:d:184:ILE:HD13	2.07	0.54
1:e:107:VAL:HG23	1:e:108:LEU:HD23	1.89	0.54
1:f:146:THR:HG22	1:f:147:ALA:N	2.22	0.54
1:i:93:LEU:HD23	1:i:218:LEU:HD22	1.88	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:l:93:LEU:HD23	1:l:218:LEU:HD22	1.88	0.54
1:l:146:THR:HG22	1:l:147:ALA:N	2.22	0.54
1:p:107:VAL:HG23	1:p:108:LEU:HD23	1.89	0.54
1:B:93:LEU:HD23	1:B:218:LEU:HD22	1.88	0.54
1:D:183:SER:O	1:D:184:ILE:HD13	2.08	0.54
1:L:93:LEU:HD23	1:L:218:LEU:HD22	1.89	0.54
1:c:146:THR:HG22	1:c:147:ALA:N	2.22	0.54
1:c:465:GLN:HA	1:c:468:ILE:HD12	1.88	0.54
1:f:107:VAL:HG23	1:f:108:LEU:HD23	1.89	0.54
1:g:403:PHE:HB2	1:g:429:LEU:HB2	1.90	0.54
1:j:465:GLN:HA	1:j:468:ILE:HD12	1.88	0.54
1:k:146:THR:HG22	1:k:147:ALA:N	2.22	0.54
1:m:143:VAL:HG22	1:m:192:ILE:HD13	1.90	0.54
1:B:143:VAL:HG22	1:B:192:ILE:HD13	1.90	0.54
1:D:117:GLN:NE2	1:i:257:TYR:HE2	2.05	0.54
1:F:183:SER:O	1:F:184:ILE:HD13	2.07	0.54
1:G:146:THR:HG22	1:G:147:ALA:N	2.22	0.54
1:H:143:VAL:HG22	1:H:192:ILE:HD13	1.90	0.54
1:I:143:VAL:HG22	1:I:192:ILE:HD13	1.90	0.54
1:L:179:ARG:HD2	1:M:61:MET:SD	2.47	0.54
1:M:107:VAL:HG23	1:M:108:LEU:HD23	1.89	0.54
1:N:146:THR:HG22	1:N:147:ALA:N	2.22	0.54
1:P:93:LEU:HD23	1:P:218:LEU:HD22	1.89	0.54
1:R:146:THR:HG22	1:R:147:ALA:N	2.22	0.54
1:a:143:VAL:HG22	1:a:192:ILE:HD13	1.90	0.54
1:a:179:ARG:HD2	1:e:61:MET:SD	2.47	0.54
1:b:183:SER:O	1:b:184:ILE:HD13	2.08	0.54
1:b:403:PHE:HB2	1:b:429:LEU:HB2	1.90	0.54
1:c:143:VAL:HG22	1:c:192:ILE:HD13	1.90	0.54
1:i:183:SER:O	1:i:184:ILE:HD13	2.08	0.54
1:j:107:VAL:HG23	1:j:108:LEU:HD23	1.89	0.54
1:r:143:VAL:HG22	1:r:192:ILE:HD13	1.90	0.54
1:D:403:PHE:HB2	1:D:429:LEU:HB2	1.90	0.54
1:J:143:VAL:HG22	1:J:192:ILE:HD13	1.90	0.54
1:O:93:LEU:HD23	1:O:218:LEU:HD22	1.88	0.54
1:P:183:SER:O	1:P:184:ILE:HD13	2.08	0.54
1:g:183:SER:O	1:g:184:ILE:HD13	2.07	0.54
1:h:143:VAL:HG22	1:h:192:ILE:HD13	1.90	0.54
1:h:146:THR:HG22	1:h:147:ALA:N	2.22	0.54
1:l:143:VAL:HG22	1:l:192:ILE:HD13	1.90	0.54
1:m:93:LEU:HD23	1:m:218:LEU:HD22	1.89	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:m:465:GLN:HA	1:m:468:ILE:HD12	1.88	0.54
1:n:93:LEU:HD23	1:n:218:LEU:HD22	1.88	0.54
1:E:107:VAL:HG23	1:E:108:LEU:HD23	1.89	0.54
1:G:107:VAL:HG23	1:G:108:LEU:HD23	1.89	0.54
1:G:143:VAL:HG22	1:G:192:ILE:HD13	1.90	0.54
1:L:143:VAL:HG22	1:L:192:ILE:HD13	1.90	0.54
1:O:465:GLN:HA	1:O:468:ILE:HD12	1.88	0.54
1:e:146:THR:HG22	1:e:147:ALA:N	2.22	0.54
1:f:387:PHE:CD2	1:f:481:VAL:HG11	2.43	0.54
1:h:107:VAL:HG23	1:h:108:LEU:HD23	1.89	0.54
1:i:387:PHE:CD2	1:i:481:VAL:HG11	2.43	0.54
1:k:107:VAL:HG23	1:k:108:LEU:HD23	1.89	0.54
1:C:146:THR:HG22	1:C:147:ALA:N	2.22	0.53
1:C:387:PHE:CD2	1:C:481:VAL:HG11	2.43	0.53
1:N:93:LEU:HD23	1:N:218:LEU:HD22	1.89	0.53
1:P:387:PHE:CD2	1:P:481:VAL:HG11	2.44	0.53
1:P:403:PHE:HB2	1:P:429:LEU:HB2	1.90	0.53
1:P:465:GLN:HA	1:P:468:ILE:HD12	1.89	0.53
1:Q:117:GLN:NE2	1:e:257:TYR:CE2	2.76	0.53
1:a:93:LEU:HD23	1:a:218:LEU:HD22	1.89	0.53
1:c:183:SER:O	1:c:184:ILE:HD13	2.07	0.53
1:k:387:PHE:CD2	1:k:481:VAL:HG11	2.43	0.53
1:n:146:THR:HG22	1:n:147:ALA:N	2.22	0.53
1:p:403:PHE:HB2	1:p:429:LEU:HB2	1.90	0.53
1:q:143:VAL:HG22	1:q:192:ILE:HD13	1.90	0.53
1:E:387:PHE:CD2	1:E:481:VAL:HG11	2.44	0.53
1:F:146:THR:HG22	1:F:147:ALA:N	2.22	0.53
1:H:183:SER:O	1:H:184:ILE:HD13	2.08	0.53
1:H:387:PHE:CD2	1:H:481:VAL:HG11	2.43	0.53
1:K:143:VAL:HG22	1:K:192:ILE:HD13	1.90	0.53
1:K:387:PHE:CD2	1:K:481:VAL:HG11	2.43	0.53
1:L:107:VAL:HG23	1:L:108:LEU:HD23	1.89	0.53
1:P:146:THR:HG22	1:P:147:ALA:N	2.22	0.53
1:Q:146:THR:HG22	1:Q:147:ALA:N	2.22	0.53
1:a:387:PHE:CD2	1:a:481:VAL:HG11	2.43	0.53
1:c:107:VAL:HG23	1:c:108:LEU:HD23	1.89	0.53
1:c:387:PHE:CD2	1:c:481:VAL:HG11	2.43	0.53
1:e:387:PHE:CD2	1:e:481:VAL:HG11	2.44	0.53
1:g:146:THR:HG22	1:g:147:ALA:N	2.22	0.53
1:i:403:PHE:HB2	1:i:429:LEU:HB2	1.90	0.53
1:n:387:PHE:CD2	1:n:481:VAL:HG11	2.43	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:o:93:LEU:HD23	1:o:218:LEU:HD22	1.88	0.53
1:B:387:PHE:CD2	1:B:481:VAL:HG11	2.44	0.53
1:D:387:PHE:CD2	1:D:481:VAL:HG11	2.43	0.53
1:J:183:SER:O	1:J:184:ILE:HD13	2.07	0.53
1:L:117:GLN:NE2	1:c:257:TYR:HE2	2.05	0.53
1:M:387:PHE:CD2	1:M:481:VAL:HG11	2.43	0.53
1:N:387:PHE:CD2	1:N:481:VAL:HG11	2.44	0.53
1:R:107:VAL:HG23	1:R:108:LEU:HD23	1.89	0.53
1:R:387:PHE:CD2	1:R:481:VAL:HG11	2.43	0.53
1:f:183:SER:O	1:f:184:ILE:HD13	2.07	0.53
1:h:183:SER:O	1:h:184:ILE:HD13	2.08	0.53
1:i:146:THR:HG22	1:i:147:ALA:N	2.22	0.53
1:j:387:PHE:CD2	1:j:481:VAL:HG11	2.44	0.53
1:o:143:VAL:HG22	1:o:192:ILE:HD13	1.90	0.53
1:o:387:PHE:CD2	1:o:481:VAL:HG11	2.43	0.53
1:p:146:THR:HG22	1:p:147:ALA:N	2.22	0.53
1:A:387:PHE:CD2	1:A:481:VAL:HG11	2.44	0.53
1:C:183:SER:O	1:C:184:ILE:HD13	2.08	0.53
1:E:183:SER:O	1:E:184:ILE:HD13	2.08	0.53
1:F:387:PHE:CD2	1:F:481:VAL:HG11	2.43	0.53
1:J:93:LEU:HD23	1:J:218:LEU:HD22	1.89	0.53
1:M:93:LEU:HD23	1:M:218:LEU:HD22	1.88	0.53
1:b:387:PHE:CD2	1:b:481:VAL:HG11	2.43	0.53
1:q:93:LEU:HD23	1:q:218:LEU:HD22	1.88	0.53
1:G:117:GLN:NE2	1:j:257:TYR:CE2	2.77	0.53
1:G:183:SER:O	1:G:184:ILE:HD13	2.08	0.53
1:H:107:VAL:HG23	1:H:108:LEU:HD23	1.89	0.53
1:K:93:LEU:HD23	1:K:218:LEU:HD22	1.89	0.53
1:d:387:PHE:CD2	1:d:481:VAL:HG11	2.44	0.53
1:l:107:VAL:HG23	1:l:108:LEU:HD23	1.89	0.53
1:l:183:SER:O	1:l:184:ILE:HD13	2.08	0.53
1:q:183:SER:O	1:q:184:ILE:HD13	2.08	0.53
1:A:146:THR:HG22	1:A:147:ALA:N	2.22	0.53
1:C:117:GLN:NE2	1:p:257:TYR:CE2	2.77	0.53
1:F:117:GLN:NE2	1:n:257:TYR:CE2	2.76	0.53
1:L:183:SER:O	1:L:184:ILE:HD13	2.07	0.53
1:e:183:SER:O	1:e:184:ILE:HD13	2.08	0.53
1:g:387:PHE:CD2	1:g:481:VAL:HG11	2.44	0.53
1:j:93:LEU:HD23	1:j:218:LEU:HD22	1.88	0.53
1:A:446:MET:HE1	1:A:478:TRP:HD1	1.74	0.53
1:H:403:PHE:HB2	1:H:429:LEU:HB2	1.89	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:117:GLN:NE2	1:o:257:TYR:CE2	2.77	0.53
1:L:446:MET:HE1	1:L:478:TRP:HD1	1.74	0.53
1:N:446:MET:HE1	1:N:478:TRP:HD1	1.74	0.53
1:Q:387:PHE:CD2	1:Q:481:VAL:HG11	2.43	0.53
1:b:146:THR:HG22	1:b:147:ALA:N	2.22	0.53
1:b:446:MET:HE1	1:b:478:TRP:HD1	1.74	0.53
1:l:446:MET:HE1	1:l:478:TRP:HD1	1.74	0.53
1:o:446:MET:HE1	1:o:478:TRP:HD1	1.74	0.53
1:p:387:PHE:CD2	1:p:481:VAL:HG11	2.44	0.53
1:q:446:MET:HE1	1:q:478:TRP:HD1	1.74	0.53
1:D:107:VAL:HG23	1:D:108:LEU:HD23	1.89	0.53
1:J:387:PHE:CD2	1:J:481:VAL:HG11	2.43	0.53
1:J:446:MET:HE1	1:J:478:TRP:HD1	1.74	0.53
1:K:446:MET:HE1	1:K:478:TRP:HD1	1.74	0.53
1:Q:93:LEU:HD23	1:Q:218:LEU:HD22	1.88	0.53
1:Q:446:MET:HE1	1:Q:478:TRP:HD1	1.74	0.53
1:h:387:PHE:CD2	1:h:481:VAL:HG11	2.43	0.53
1:i:446:MET:HE1	1:i:478:TRP:HD1	1.74	0.53
1:l:403:PHE:HB2	1:l:429:LEU:HB2	1.90	0.53
1:n:446:MET:HE1	1:n:478:TRP:HD1	1.74	0.53
1:p:446:MET:HE1	1:p:478:TRP:HD1	1.74	0.53
1:q:387:PHE:CD2	1:q:481:VAL:HG11	2.44	0.53
1:C:446:MET:HE1	1:C:478:TRP:HD1	1.74	0.53
1:H:179:ARG:CB	1:I:61:MET:HB2	2.39	0.53
1:d:107:VAL:HG23	1:d:108:LEU:HD23	1.89	0.53
1:m:387:PHE:CD2	1:m:481:VAL:HG11	2.43	0.53
1:P:446:MET:HE1	1:P:478:TRP:HD1	1.74	0.53
1:e:446:MET:HE1	1:e:478:TRP:HD1	1.74	0.53
1:g:179:ARG:CB	1:h:61:MET:HB2	2.39	0.53
1:j:28:ASP:O	1:j:28:ASP:OD1	2.27	0.53
1:m:28:ASP:O	1:m:28:ASP:OD1	2.27	0.53
1:p:93:LEU:HD23	1:p:218:LEU:HD22	1.89	0.53
1:G:387:PHE:CD2	1:G:481:VAL:HG11	2.44	0.52
1:I:186:ARG:HG2	1:I:186:ARG:O	2.10	0.52
1:I:387:PHE:CD2	1:I:481:VAL:HG11	2.44	0.52
1:J:117:GLN:NE2	1:q:257:TYR:CE2	2.76	0.52
1:O:387:PHE:CD2	1:O:481:VAL:HG11	2.44	0.52
1:P:28:ASP:OD1	1:P:28:ASP:O	2.27	0.52
1:P:117:GLN:NE2	1:d:257:TYR:CE2	2.76	0.52
1:i:179:ARG:CB	1:p:61:MET:HB2	2.39	0.52
1:l:28:ASP:OD1	1:l:28:ASP:O	2.27	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:n:28:ASP:OD1	1:n:28:ASP:O	2.27	0.52
1:p:28:ASP:O	1:p:28:ASP:OD1	2.28	0.52
1:r:186:ARG:O	1:r:186:ARG:HG2	2.10	0.52
1:F:186:ARG:HG2	1:F:186:ARG:O	2.10	0.52
1:H:146:THR:OG1	1:H:189:SER:HB3	2.10	0.52
1:H:186:ARG:O	1:H:186:ARG:HG2	2.10	0.52
1:K:28:ASP:OD1	1:K:28:ASP:O	2.28	0.52
1:L:28:ASP:OD1	1:L:28:ASP:O	2.28	0.52
1:L:387:PHE:CD2	1:L:481:VAL:HG11	2.43	0.52
1:M:117:GLN:NE2	1:h:257:TYR:CE2	2.76	0.52
1:M:179:ARG:CB	1:N:61:MET:HB2	2.39	0.52
1:M:446:MET:HE1	1:M:478:TRP:HD1	1.74	0.52
1:N:28:ASP:OD1	1:N:28:ASP:O	2.28	0.52
1:O:28:ASP:OD1	1:O:28:ASP:O	2.28	0.52
1:Q:28:ASP:OD1	1:Q:28:ASP:O	2.28	0.52
1:R:28:ASP:O	1:R:28:ASP:OD1	2.28	0.52
1:b:28:ASP:O	1:b:28:ASP:OD1	2.28	0.52
1:c:186:ARG:O	1:c:186:ARG:HG2	2.10	0.52
1:g:186:ARG:O	1:g:186:ARG:HG2	2.10	0.52
1:i:28:ASP:OD1	1:i:28:ASP:O	2.28	0.52
1:j:446:MET:HE1	1:j:478:TRP:HD1	1.74	0.52
1:q:61:MET:HB2	1:r:179:ARG:CB	2.40	0.52
1:q:186:ARG:HG2	1:q:186:ARG:O	2.10	0.52
1:r:387:PHE:CD2	1:r:481:VAL:HG11	2.44	0.52
1:B:28:ASP:O	1:B:28:ASP:OD1	2.28	0.52
1:D:179:ARG:CB	1:E:61:MET:HB2	2.39	0.52
1:G:446:MET:HE1	1:G:478:TRP:HD1	1.74	0.52
1:J:186:ARG:O	1:J:186:ARG:HG2	2.10	0.52
1:K:186:ARG:HG2	1:K:186:ARG:O	2.10	0.52
1:a:146:THR:OG1	1:a:189:SER:HB3	2.10	0.52
1:c:146:THR:OG1	1:c:189:SER:HB3	2.10	0.52
1:c:403:PHE:HB2	1:c:429:LEU:HB2	1.90	0.52
1:c:446:MET:HE1	1:c:478:TRP:HD1	1.74	0.52
1:d:61:MET:HB2	1:e:179:ARG:CB	2.39	0.52
1:f:446:MET:HE1	1:f:478:TRP:HD1	1.74	0.52
1:j:146:THR:OG1	1:j:189:SER:HB3	2.10	0.52
1:k:28:ASP:OD1	1:k:28:ASP:O	2.28	0.52
1:A:28:ASP:OD1	1:A:28:ASP:O	2.28	0.52
1:B:146:THR:OG1	1:B:189:SER:HB3	2.10	0.52
1:D:146:THR:OG1	1:D:189:SER:HB3	2.10	0.52
1:E:446:MET:HE1	1:E:478:TRP:HD1	1.74	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:179:ARG:CB	1:G:61:MET:HB2	2.40	0.52
1:G:186:ARG:O	1:G:186:ARG:HG2	2.10	0.52
1:I:403:PHE:HB2	1:I:429:LEU:HB2	1.90	0.52
1:I:446:MET:HE1	1:I:478:TRP:HD1	1.74	0.52
1:M:28:ASP:O	1:M:28:ASP:OD1	2.28	0.52
1:M:146:THR:OG1	1:M:189:SER:HB3	2.10	0.52
1:O:146:THR:OG1	1:O:189:SER:HB3	2.10	0.52
1:P:179:ARG:CB	1:Q:61:MET:HB2	2.39	0.52
1:d:146:THR:OG1	1:d:189:SER:HB3	2.10	0.52
1:h:446:MET:HE1	1:h:478:TRP:HD1	1.74	0.52
1:j:179:ARG:CB	1:n:61:MET:HB2	2.40	0.52
1:l:387:PHE:CD2	1:l:481:VAL:HG11	2.43	0.52
1:m:146:THR:OG1	1:m:189:SER:HB3	2.10	0.52
1:m:446:MET:HE1	1:m:478:TRP:HD1	1.74	0.52
1:n:186:ARG:HG2	1:n:186:ARG:O	2.10	0.52
1:o:28:ASP:OD1	1:o:28:ASP:O	2.28	0.52
1:A:179:ARG:CB	1:B:61:MET:HB2	2.40	0.52
1:H:446:MET:HE1	1:H:478:TRP:HD1	1.74	0.52
1:I:28:ASP:OD1	1:I:28:ASP:O	2.28	0.52
1:K:117:GLN:NE2	1:r:257:TYR:CE2	2.78	0.52
1:O:117:GLN:NE2	1:f:257:TYR:CE2	2.77	0.52
1:R:146:THR:OG1	1:R:189:SER:HB3	2.10	0.52
1:a:28:ASP:OD1	1:a:28:ASP:O	2.28	0.52
1:h:186:ARG:O	1:h:186:ARG:HG2	2.10	0.52
1:o:146:THR:OG1	1:o:189:SER:HB3	2.10	0.52
1:r:446:MET:HE1	1:r:478:TRP:HD1	1.74	0.52
1:B:446:MET:HE1	1:B:478:TRP:HD1	1.74	0.52
1:G:146:THR:OG1	1:G:189:SER:HB3	2.10	0.52
1:J:28:ASP:O	1:J:28:ASP:OD1	2.28	0.52
1:N:186:ARG:HG2	1:N:186:ARG:O	2.10	0.52
1:O:446:MET:HE1	1:O:478:TRP:HD1	1.74	0.52
1:P:186:ARG:O	1:P:186:ARG:HG2	2.10	0.52
1:h:146:THR:OG1	1:h:189:SER:HB3	2.10	0.52
1:j:61:MET:HB2	1:l:179:ARG:CB	2.39	0.52
1:q:28:ASP:OD1	1:q:28:ASP:O	2.28	0.52
1:F:146:THR:OG1	1:F:189:SER:HB3	2.10	0.52
1:K:146:THR:OG1	1:K:189:SER:HB3	2.10	0.52
1:L:146:THR:OG1	1:L:189:SER:HB3	2.10	0.52
1:L:179:ARG:CB	1:M:61:MET:HB2	2.39	0.52
1:O:186:ARG:O	1:O:186:ARG:HG2	2.10	0.52
1:b:229:TYR:CE2	1:k:224:LYS:HD3	2.45	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:c:179:ARG:CB	1:r:61:MET:HB2	2.40	0.52
1:g:146:THR:OG1	1:g:189:SER:HB3	2.10	0.52
1:i:186:ARG:HG2	1:i:186:ARG:O	2.10	0.52
1:k:146:THR:OG1	1:k:189:SER:HB3	2.10	0.52
1:o:186:ARG:HG2	1:o:186:ARG:O	2.10	0.52
1:r:28:ASP:OD1	1:r:28:ASP:O	2.28	0.52
1:A:160:ALA:HB3	1:A:174:THR:HG23	1.92	0.52
1:A:229:TYR:CE2	1:R:224:LYS:HD3	2.45	0.52
1:C:160:ALA:HB3	1:C:174:THR:HG23	1.92	0.52
1:D:28:ASP:OD1	1:D:28:ASP:O	2.28	0.52
1:E:117:GLN:NE2	1:m:257:TYR:CE2	2.77	0.52
1:E:179:ARG:CB	1:F:61:MET:HB2	2.40	0.52
1:P:146:THR:OG1	1:P:189:SER:HB3	2.10	0.52
1:Q:186:ARG:HG2	1:Q:186:ARG:O	2.10	0.52
1:a:446:MET:HE1	1:a:478:TRP:HD1	1.74	0.52
1:b:160:ALA:HB3	1:b:174:THR:HG23	1.92	0.52
1:g:160:ALA:HB3	1:g:174:THR:HG23	1.92	0.52
1:l:146:THR:OG1	1:l:189:SER:HB3	2.10	0.52
1:m:61:MET:HB2	1:n:179:ARG:CB	2.40	0.52
1:p:146:THR:OG1	1:p:189:SER:HB3	2.10	0.52
1:p:160:ALA:HB3	1:p:174:THR:HG23	1.92	0.52
1:p:186:ARG:O	1:p:186:ARG:HG2	2.10	0.52
1:A:186:ARG:HG2	1:A:186:ARG:O	2.10	0.52
1:F:160:ALA:HB3	1:F:174:THR:HG23	1.92	0.52
1:G:28:ASP:O	1:G:28:ASP:OD1	2.27	0.52
1:N:160:ALA:HB3	1:N:174:THR:HG23	1.92	0.52
1:Q:146:THR:OG1	1:Q:189:SER:HB3	2.10	0.52
1:Q:160:ALA:HB3	1:Q:174:THR:HG23	1.92	0.52
1:b:186:ARG:O	1:b:186:ARG:HG2	2.10	0.52
1:d:28:ASP:OD1	1:d:28:ASP:O	2.28	0.52
1:e:160:ALA:HB3	1:e:174:THR:HG23	1.92	0.52
1:l:186:ARG:HG2	1:l:186:ARG:O	2.09	0.52
1:m:186:ARG:O	1:m:186:ARG:HG2	2.10	0.52
1:n:160:ALA:HB3	1:n:174:THR:HG23	1.92	0.52
1:E:28:ASP:O	1:E:28:ASP:OD1	2.27	0.52
1:F:28:ASP:OD1	1:F:28:ASP:O	2.27	0.52
1:I:146:THR:OG1	1:I:189:SER:HB3	2.10	0.52
1:I:224:LYS:HD3	1:J:229:TYR:CE2	2.45	0.52
1:J:224:LYS:HD3	1:K:229:TYR:CE2	2.45	0.52
1:K:403:PHE:HB2	1:K:429:LEU:HB2	1.90	0.52
1:N:146:THR:OG1	1:N:189:SER:HB3	2.10	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:b:146:THR:OG1	1:b:189:SER:HB3	2.10	0.52
1:c:28:ASP:OD1	1:c:28:ASP:O	2.28	0.52
1:c:160:ALA:HB3	1:c:174:THR:HG23	1.92	0.52
1:e:28:ASP:O	1:e:28:ASP:OD1	2.28	0.52
1:f:179:ARG:CB	1:g:61:MET:HB2	2.40	0.52
1:g:28:ASP:OD1	1:g:28:ASP:O	2.27	0.52
1:i:146:THR:OG1	1:i:189:SER:HB3	2.10	0.52
1:i:229:TYR:CE2	1:m:224:LYS:HD3	2.45	0.52
1:o:447:TYR:CB	1:o:479:PHE:CZ	2.93	0.52
1:q:229:TYR:CE2	1:r:224:LYS:HD3	2.45	0.52
1:C:28:ASP:OD1	1:C:28:ASP:O	2.28	0.51
1:C:224:LYS:HD3	1:D:229:TYR:CE2	2.45	0.51
1:E:146:THR:OG1	1:E:189:SER:HB3	2.10	0.51
1:E:160:ALA:HB3	1:E:174:THR:HG23	1.92	0.51
1:E:447:TYR:CB	1:E:479:PHE:CZ	2.94	0.51
1:H:28:ASP:OD1	1:H:28:ASP:O	2.28	0.51
1:H:160:ALA:HB3	1:H:174:THR:HG23	1.92	0.51
1:K:447:TYR:CB	1:K:479:PHE:CZ	2.94	0.51
1:N:117:GLN:NE2	1:g:257:TYR:CE2	2.77	0.51
1:O:224:LYS:HD3	1:P:229:TYR:CE2	2.45	0.51
1:P:224:LYS:HD3	1:Q:229:TYR:CE2	2.45	0.51
1:R:186:ARG:O	1:R:186:ARG:HG2	2.10	0.51
1:R:446:MET:HE1	1:R:478:TRP:HD1	1.74	0.51
1:a:179:ARG:CB	1:e:61:MET:HB2	2.39	0.51
1:d:160:ALA:HB3	1:d:174:THR:HG23	1.92	0.51
1:d:186:ARG:HG2	1:d:186:ARG:O	2.10	0.51
1:f:447:TYR:CB	1:f:479:PHE:CZ	2.94	0.51
1:g:446:MET:HE1	1:g:478:TRP:HD1	1.74	0.51
1:h:28:ASP:O	1:h:28:ASP:OD1	2.28	0.51
1:i:160:ALA:HB3	1:i:174:THR:HG23	1.92	0.51
1:l:160:ALA:HB3	1:l:174:THR:HG23	1.92	0.51
1:n:146:THR:OG1	1:n:189:SER:HB3	2.10	0.51
1:o:229:TYR:CE2	1:q:224:LYS:HD3	2.45	0.51
1:r:146:THR:OG1	1:r:189:SER:HB3	2.10	0.51
1:A:146:THR:OG1	1:A:189:SER:HB3	2.10	0.51
1:B:224:LYS:HD3	1:C:229:TYR:CE2	2.45	0.51
1:D:160:ALA:HB3	1:D:174:THR:HG23	1.92	0.51
1:D:186:ARG:O	1:D:186:ARG:HG2	2.10	0.51
1:D:446:MET:HE1	1:D:478:TRP:HD1	1.74	0.51
1:F:224:LYS:HD3	1:G:229:TYR:CE2	2.45	0.51
1:F:446:MET:HE1	1:F:478:TRP:HD1	1.74	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:447:TYR:CB	1:F:479:PHE:CZ	2.94	0.51
1:J:160:ALA:HB3	1:J:174:THR:HG23	1.92	0.51
1:L:160:ALA:HB3	1:L:174:THR:HG23	1.92	0.51
1:L:186:ARG:HG2	1:L:186:ARG:O	2.10	0.51
1:O:160:ALA:HB3	1:O:174:THR:HG23	1.92	0.51
1:P:160:ALA:HB3	1:P:174:THR:HG23	1.92	0.51
1:a:229:TYR:CE2	1:b:224:LYS:HD3	2.45	0.51
1:c:447:TYR:CB	1:c:479:PHE:CZ	2.94	0.51
1:d:229:TYR:CE2	1:e:224:LYS:HD3	2.45	0.51
1:d:446:MET:HE1	1:d:478:TRP:HD1	1.74	0.51
1:e:146:THR:OG1	1:e:189:SER:HB3	2.10	0.51
1:f:28:ASP:OD1	1:f:28:ASP:O	2.28	0.51
1:f:146:THR:OG1	1:f:189:SER:HB3	2.10	0.51
1:f:160:ALA:HB3	1:f:174:THR:HG23	1.92	0.51
1:g:447:TYR:CB	1:g:479:PHE:CZ	2.93	0.51
1:i:224:LYS:HD3	1:p:229:TYR:CE2	2.45	0.51
1:k:186:ARG:O	1:k:186:ARG:HG2	2.10	0.51
1:k:446:MET:HE1	1:k:478:TRP:HD1	1.74	0.51
1:m:160:ALA:HB3	1:m:174:THR:HG23	1.92	0.51
1:r:447:TYR:CB	1:r:479:PHE:CZ	2.94	0.51
1:C:146:THR:OG1	1:C:189:SER:HB3	2.10	0.51
1:H:117:GLN:NE2	1:l:257:TYR:CE2	2.79	0.51
1:H:447:TYR:CB	1:H:479:PHE:CZ	2.94	0.51
1:I:179:ARG:CB	1:J:61:MET:HB2	2.40	0.51
1:I:447:TYR:CB	1:I:479:PHE:CZ	2.94	0.51
1:J:179:ARG:CB	1:K:61:MET:HB2	2.40	0.51
1:J:447:TYR:CB	1:J:479:PHE:CZ	2.94	0.51
1:M:447:TYR:CB	1:M:479:PHE:CZ	2.94	0.51
1:a:447:TYR:CB	1:a:479:PHE:CZ	2.94	0.51
1:j:447:TYR:CB	1:j:479:PHE:CZ	2.94	0.51
1:q:160:ALA:HB3	1:q:174:THR:HG23	1.92	0.51
1:B:447:TYR:CB	1:B:479:PHE:CZ	2.94	0.51
1:J:83:LEU:HB3	1:J:156:LEU:HB3	1.93	0.51
1:K:83:LEU:HB3	1:K:156:LEU:HB3	1.93	0.51
1:f:224:LYS:HD3	1:g:229:TYR:CE2	2.45	0.51
1:l:447:TYR:CB	1:l:479:PHE:CZ	2.94	0.51
1:o:83:LEU:HB3	1:o:156:LEU:HB3	1.93	0.51
1:q:146:THR:OG1	1:q:189:SER:HB3	2.10	0.51
1:r:83:LEU:HB3	1:r:156:LEU:HB3	1.93	0.51
1:C:447:TYR:CB	1:C:479:PHE:CZ	2.94	0.51
1:F:83:LEU:HB3	1:F:156:LEU:HB3	1.93	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:146:THR:OG1	1:J:189:SER:HB3	2.10	0.51
1:L:447:TYR:CB	1:L:479:PHE:CZ	2.94	0.51
1:M:224:LYS:HD3	1:N:229:TYR:CE2	2.45	0.51
1:O:179:ARG:CB	1:P:61:MET:HB2	2.39	0.51
1:c:224:LYS:HD3	1:r:229:TYR:CE2	2.45	0.51
1:g:224:LYS:HD3	1:h:229:TYR:CE2	2.45	0.51
1:j:224:LYS:HD3	1:n:229:TYR:CE2	2.45	0.51
1:j:229:TYR:CE2	1:l:224:LYS:HD3	2.45	0.51
1:n:447:TYR:CB	1:n:479:PHE:CZ	2.94	0.51
1:o:61:MET:HB2	1:q:179:ARG:CB	2.40	0.51
1:q:83:LEU:HB3	1:q:156:LEU:HB3	1.93	0.51
1:q:447:TYR:CB	1:q:479:PHE:CZ	2.94	0.51
1:A:61:MET:HB2	1:R:179:ARG:CB	2.40	0.51
1:A:224:LYS:HD3	1:B:229:TYR:CE2	2.45	0.51
1:I:83:LEU:HB3	1:I:156:LEU:HB3	1.93	0.51
1:L:83:LEU:HB3	1:L:156:LEU:HB3	1.93	0.51
1:N:447:TYR:CB	1:N:479:PHE:CZ	2.94	0.51
1:a:224:LYS:HD3	1:e:229:TYR:CE2	2.46	0.51
1:c:83:LEU:HB3	1:c:156:LEU:HB3	1.93	0.51
1:d:447:TYR:CB	1:d:479:PHE:CZ	2.94	0.51
1:g:83:LEU:HB3	1:g:156:LEU:HB3	1.93	0.51
1:l:61:MET:HB2	1:o:179:ARG:CB	2.41	0.51
1:m:229:TYR:CE2	1:n:224:LYS:HD3	2.45	0.51
1:D:447:TYR:CB	1:D:479:PHE:CZ	2.94	0.51
1:E:224:LYS:HD3	1:F:229:TYR:CE2	2.46	0.51
1:G:83:LEU:HB3	1:G:156:LEU:HB3	1.93	0.51
1:H:179:ARG:CG	1:I:61:MET:HB2	2.41	0.51
1:H:224:LYS:HD3	1:I:229:TYR:CE2	2.45	0.51
1:L:117:GLN:NE2	1:c:257:TYR:CE2	2.79	0.51
1:N:224:LYS:HD3	1:O:229:TYR:CE2	2.45	0.51
1:Q:224:LYS:HD3	1:R:229:TYR:CE2	2.45	0.51
1:b:61:MET:HB2	1:k:179:ARG:CB	2.40	0.51
1:b:447:TYR:CB	1:b:479:PHE:CZ	2.94	0.51
1:e:447:TYR:CB	1:e:479:PHE:CZ	2.94	0.51
1:A:447:TYR:CB	1:A:479:PHE:CZ	2.94	0.51
1:G:160:ALA:HB3	1:G:174:THR:HG23	1.92	0.51
1:H:83:LEU:HB3	1:H:156:LEU:HB3	1.93	0.51
1:M:186:ARG:O	1:M:186:ARG:HG2	2.10	0.51
1:a:186:ARG:HG2	1:a:186:ARG:O	2.10	0.51
1:a:403:PHE:HB3	1:a:429:LEU:HD12	1.93	0.51
1:d:179:ARG:CB	1:f:61:MET:HB2	2.41	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:h:447:TYR:CB	1:h:479:PHE:CZ	2.94	0.51
1:j:160:ALA:HB3	1:j:174:THR:HG23	1.92	0.51
1:j:186:ARG:O	1:j:186:ARG:HG2	2.10	0.51
1:B:186:ARG:O	1:B:186:ARG:HG2	2.10	0.51
1:C:179:ARG:CB	1:D:61:MET:HB2	2.41	0.51
1:E:83:LEU:HB3	1:E:156:LEU:HB3	1.93	0.51
1:G:447:TYR:CB	1:G:479:PHE:CZ	2.94	0.51
1:N:179:ARG:CB	1:O:61:MET:HB2	2.41	0.51
1:O:179:ARG:CG	1:P:61:MET:HB2	2.41	0.51
1:P:447:TYR:CB	1:P:479:PHE:CZ	2.94	0.51
1:Q:447:TYR:CB	1:Q:479:PHE:CZ	2.94	0.51
1:R:160:ALA:HB3	1:R:174:THR:HG23	1.92	0.51
1:a:160:ALA:HB3	1:a:174:THR:HG23	1.92	0.51
1:f:83:LEU:HB3	1:f:156:LEU:HB3	1.93	0.51
1:h:83:LEU:HB3	1:h:156:LEU:HB3	1.93	0.51
1:i:447:TYR:CB	1:i:479:PHE:CZ	2.94	0.51
1:j:83:LEU:HB3	1:j:156:LEU:HB3	1.93	0.51
1:l:83:LEU:HB3	1:l:156:LEU:HB3	1.93	0.51
1:n:83:LEU:HB3	1:n:156:LEU:HB3	1.93	0.51
1:A:403:PHE:HB3	1:A:429:LEU:HD12	1.93	0.51
1:B:160:ALA:HB3	1:B:174:THR:HG23	1.92	0.51
1:E:186:ARG:O	1:E:186:ARG:HG2	2.10	0.51
1:L:224:LYS:HD3	1:M:229:TYR:CE2	2.46	0.51
1:M:160:ALA:HB3	1:M:174:THR:HG23	1.92	0.51
1:d:224:LYS:HD3	1:f:229:TYR:CE2	2.45	0.51
1:d:403:PHE:HB3	1:d:429:LEU:HD12	1.93	0.51
1:h:160:ALA:HB3	1:h:174:THR:HG23	1.92	0.51
1:p:447:TYR:CB	1:p:479:PHE:CZ	2.94	0.51
1:C:403:PHE:HB3	1:C:429:LEU:HD12	1.93	0.50
1:D:224:LYS:HD3	1:E:229:TYR:CE2	2.45	0.50
1:K:179:ARG:CB	1:L:61:MET:HB2	2.42	0.50
1:M:83:LEU:HB3	1:M:156:LEU:HB3	1.93	0.50
1:N:83:LEU:HB3	1:N:156:LEU:HB3	1.93	0.50
1:O:447:TYR:CB	1:O:479:PHE:CZ	2.94	0.50
1:e:186:ARG:O	1:e:186:ARG:HG2	2.10	0.50
1:f:186:ARG:HG2	1:f:186:ARG:O	2.10	0.50
1:k:160:ALA:HB3	1:k:174:THR:HG23	1.92	0.50
1:k:229:TYR:CE2	1:p:224:LYS:HD3	2.45	0.50
1:m:83:LEU:HB3	1:m:156:LEU:HB3	1.93	0.50
1:r:117:GLN:HG3	1:r:117:GLN:O	2.12	0.50
1:A:179:ARG:CG	1:B:61:MET:HB2	2.41	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:179:ARG:CB	1:C:61:MET:HB2	2.40	0.50
1:O:83:LEU:HB3	1:O:156:LEU:HB3	1.93	0.50
1:R:447:TYR:CB	1:R:479:PHE:CZ	2.94	0.50
1:k:61:MET:HB2	1:p:179:ARG:CB	2.40	0.50
1:C:186:ARG:HG2	1:C:186:ARG:O	2.10	0.50
1:E:403:PHE:HB3	1:E:429:LEU:HD12	1.93	0.50
1:J:179:ARG:CG	1:K:61:MET:HB2	2.41	0.50
1:d:61:MET:HB2	1:e:179:ARG:CG	2.41	0.50
1:g:117:GLN:O	1:g:117:GLN:HG3	2.12	0.50
1:k:447:TYR:CB	1:k:479:PHE:CZ	2.94	0.50
1:B:403:PHE:HB3	1:B:429:LEU:HD12	1.94	0.50
1:G:224:LYS:HD3	1:H:229:TYR:CE2	2.45	0.50
1:c:229:TYR:CE2	1:h:224:LYS:HD3	2.45	0.50
1:m:447:TYR:CB	1:m:479:PHE:CZ	2.94	0.50
1:D:83:LEU:HB3	1:D:156:LEU:HB3	1.93	0.50
1:K:224:LYS:HD3	1:L:229:TYR:CE2	2.45	0.50
1:N:184:ILE:HG22	1:N:185:LYS:N	2.27	0.50
1:c:117:GLN:HG3	1:c:117:GLN:O	2.12	0.50
1:e:117:GLN:HG3	1:e:117:GLN:O	2.12	0.50
1:e:403:PHE:HB3	1:e:429:LEU:HD12	1.94	0.50
1:f:179:ARG:CG	1:g:61:MET:HB2	2.40	0.50
1:m:117:GLN:HG3	1:m:117:GLN:O	2.12	0.50
1:n:184:ILE:HG22	1:n:185:LYS:N	2.27	0.50
1:o:61:MET:HB2	1:q:179:ARG:CG	2.41	0.50
1:p:184:ILE:HG22	1:p:185:LYS:N	2.27	0.50
1:D:117:GLN:NE2	1:i:257:TYR:CE2	2.80	0.50
1:G:403:PHE:HB3	1:G:429:LEU:HD12	1.93	0.50
1:M:450:SER:OG	1:M:459:ARG:O	2.29	0.50
1:P:83:LEU:HB3	1:P:156:LEU:HB3	1.93	0.50
1:Q:184:ILE:HG22	1:Q:185:LYS:N	2.27	0.50
1:Q:300:GLU:O	1:Q:304:GLN:NE2	2.45	0.50
1:R:117:GLN:NE2	1:a:257:TYR:CE2	2.79	0.50
1:d:83:LEU:HB3	1:d:156:LEU:HB3	1.93	0.50
1:i:83:LEU:HB3	1:i:156:LEU:HB3	1.93	0.50
1:i:117:GLN:HG3	1:i:117:GLN:O	2.12	0.50
1:l:229:TYR:CE2	1:o:224:LYS:HD3	2.45	0.50
1:o:160:ALA:HB3	1:o:174:THR:HG23	1.92	0.50
1:p:300:GLU:O	1:p:304:GLN:NE2	2.45	0.50
1:I:160:ALA:HB3	1:I:174:THR:HG23	1.92	0.50
1:a:61:MET:HB2	1:b:179:ARG:CB	2.41	0.50
1:a:117:GLN:HG3	1:a:117:GLN:O	2.12	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:c:179:ARG:CG	1:r:61:MET:HB2	2.41	0.50
1:f:117:GLN:HG3	1:f:117:GLN:O	2.12	0.50
1:j:450:SER:OG	1:j:459:ARG:O	2.29	0.50
1:n:117:GLN:HG3	1:n:117:GLN:O	2.12	0.50
1:C:83:LEU:HB3	1:C:156:LEU:HB3	1.93	0.50
1:F:403:PHE:HB3	1:F:429:LEU:HD12	1.93	0.50
1:K:160:ALA:HB3	1:K:174:THR:HG23	1.92	0.50
1:b:61:MET:HB2	1:k:179:ARG:CG	2.41	0.50
1:l:117:GLN:HG3	1:l:117:GLN:O	2.12	0.50
1:p:117:GLN:HG3	1:p:117:GLN:O	2.11	0.50
1:q:61:MET:HB2	1:r:179:ARG:CG	2.41	0.50
1:r:160:ALA:HB3	1:r:174:THR:HG23	1.92	0.50
1:A:83:LEU:HB3	1:A:156:LEU:HB3	1.93	0.50
1:A:118:THR:HG21	1:A:124:THR:OG1	2.12	0.50
1:A:184:ILE:HG22	1:A:185:LYS:N	2.27	0.50
1:P:184:ILE:HG22	1:P:185:LYS:N	2.27	0.50
1:a:83:LEU:HB3	1:a:156:LEU:HB3	1.93	0.50
1:a:179:ARG:CG	1:e:61:MET:HB2	2.41	0.50
1:b:83:LEU:HB3	1:b:156:LEU:HB3	1.93	0.50
1:g:300:GLU:O	1:g:304:GLN:NE2	2.45	0.50
1:j:228:PHE:CE2	1:j:237:HIS:CE1	3.00	0.50
1:m:403:PHE:HB3	1:m:429:LEU:HD12	1.93	0.50
1:B:83:LEU:HB3	1:B:156:LEU:HB3	1.93	0.49
1:D:179:ARG:CG	1:E:61:MET:HB2	2.41	0.49
1:E:300:GLU:O	1:E:304:GLN:NE2	2.45	0.49
1:F:300:GLU:O	1:F:304:GLN:NE2	2.45	0.49
1:H:228:PHE:CE2	1:H:237:HIS:CE1	3.00	0.49
1:M:228:PHE:CE2	1:M:237:HIS:CE1	3.00	0.49
1:N:228:PHE:CE2	1:N:237:HIS:CE1	3.00	0.49
1:P:300:GLU:O	1:P:304:GLN:NE2	2.45	0.49
1:R:83:LEU:HB3	1:R:156:LEU:HB3	1.93	0.49
1:b:184:ILE:HG22	1:b:185:LYS:N	2.27	0.49
1:c:61:MET:HB2	1:h:179:ARG:CB	2.41	0.49
1:e:83:LEU:HB3	1:e:156:LEU:HB3	1.93	0.49
1:i:184:ILE:HG22	1:i:185:LYS:N	2.27	0.49
1:j:61:MET:HB2	1:l:179:ARG:CG	2.41	0.49
1:L:228:PHE:CE2	1:L:237:HIS:CE1	3.00	0.49
1:M:300:GLU:O	1:M:304:GLN:NE2	2.45	0.49
1:c:228:PHE:CE2	1:c:237:HIS:CE1	3.00	0.49
1:f:300:GLU:O	1:f:304:GLN:NE2	2.45	0.49
1:i:61:MET:HB2	1:m:179:ARG:CB	2.41	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:i:300:GLU:O	1:i:304:GLN:NE2	2.45	0.49
1:j:300:GLU:O	1:j:304:GLN:NE2	2.45	0.49
1:k:83:LEU:HB3	1:k:156:LEU:HB3	1.93	0.49
1:l:184:ILE:HG22	1:l:185:LYS:N	2.27	0.49
1:l:228:PHE:CE2	1:l:237:HIS:CE1	3.00	0.49
1:n:231:ASP:O	1:n:234:SER:OG	2.28	0.49
1:q:117:GLN:HG3	1:q:117:GLN:O	2.12	0.49
1:r:403:PHE:HB3	1:r:429:LEU:HD12	1.93	0.49
1:B:179:ARG:CG	1:C:61:MET:HB2	2.41	0.49
1:F:231:ASP:HB3	1:F:236:LYS:CE	2.43	0.49
1:G:179:ARG:CB	1:H:61:MET:HB2	2.41	0.49
1:G:300:GLU:O	1:G:304:GLN:NE2	2.45	0.49
1:I:228:PHE:CE2	1:I:237:HIS:CE1	3.00	0.49
1:K:231:ASP:HB3	1:K:236:LYS:CE	2.43	0.49
1:L:184:ILE:HG22	1:L:185:LYS:N	2.27	0.49
1:L:300:GLU:O	1:L:304:GLN:NE2	2.45	0.49
1:N:231:ASP:O	1:N:234:SER:OG	2.29	0.49
1:O:184:ILE:HG22	1:O:185:LYS:N	2.27	0.49
1:c:231:ASP:HB3	1:c:236:LYS:CE	2.43	0.49
1:g:231:ASP:HB3	1:g:236:LYS:CE	2.43	0.49
1:h:117:GLN:HG3	1:h:117:GLN:O	2.12	0.49
1:h:228:PHE:CE2	1:h:237:HIS:CE1	3.00	0.49
1:h:300:GLU:O	1:h:304:GLN:NE2	2.45	0.49
1:i:231:ASP:O	1:i:234:SER:OG	2.28	0.49
1:j:117:GLN:HG3	1:j:117:GLN:O	2.12	0.49
1:l:300:GLU:O	1:l:304:GLN:NE2	2.45	0.49
1:m:184:ILE:HG22	1:m:185:LYS:N	2.27	0.49
1:n:228:PHE:CE2	1:n:237:HIS:CE1	3.00	0.49
1:o:231:ASP:HB3	1:o:236:LYS:CE	2.43	0.49
1:p:83:LEU:HB3	1:p:156:LEU:HB3	1.93	0.49
1:r:228:PHE:CE2	1:r:237:HIS:CE1	3.00	0.49
1:G:228:PHE:CE2	1:G:237:HIS:CE1	3.00	0.49
1:H:231:ASP:HB3	1:H:236:LYS:CE	2.43	0.49
1:M:179:ARG:CG	1:N:61:MET:HB2	2.41	0.49
1:N:403:PHE:HB3	1:N:429:LEU:HD12	1.93	0.49
1:P:231:ASP:O	1:P:234:SER:OG	2.29	0.49
1:Q:83:LEU:HB3	1:Q:156:LEU:HB3	1.93	0.49
1:i:179:ARG:CG	1:p:61:MET:HB2	2.41	0.49
1:q:107:VAL:HG23	1:q:108:LEU:CD2	2.43	0.49
1:D:300:GLU:O	1:D:304:GLN:NE2	2.45	0.49
1:J:107:VAL:HG23	1:J:108:LEU:CD2	2.43	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:184:ILE:HG22	1:K:185:LYS:N	2.27	0.49
1:L:179:ARG:CG	1:M:61:MET:HB2	2.41	0.49
1:Q:179:ARG:CB	1:R:61:MET:HB2	2.41	0.49
1:a:61:MET:HB2	1:b:179:ARG:CG	2.43	0.49
1:d:117:GLN:O	1:d:117:GLN:HG3	2.12	0.49
1:k:61:MET:HB2	1:p:179:ARG:CG	2.42	0.49
1:E:179:ARG:CG	1:F:61:MET:HB2	2.42	0.49
1:E:450:SER:OG	1:E:459:ARG:O	2.29	0.49
1:I:231:ASP:HB3	1:I:236:LYS:CE	2.43	0.49
1:K:300:GLU:O	1:K:304:GLN:NE2	2.45	0.49
1:Q:107:VAL:HG23	1:Q:108:LEU:CD2	2.43	0.49
1:Q:179:ARG:CG	1:R:61:MET:HB2	2.43	0.49
1:f:450:SER:OG	1:f:459:ARG:O	2.29	0.49
1:i:61:MET:HB2	1:m:179:ARG:CG	2.42	0.49
1:k:107:VAL:HG23	1:k:108:LEU:CD2	2.43	0.49
1:k:403:PHE:HB3	1:k:429:LEU:HD12	1.94	0.49
1:o:184:ILE:HG22	1:o:185:LYS:N	2.27	0.49
1:p:107:VAL:HG23	1:p:108:LEU:CD2	2.43	0.49
1:A:61:MET:HB2	1:R:179:ARG:CG	2.42	0.49
1:F:184:ILE:HG22	1:F:185:LYS:N	2.27	0.49
1:I:107:VAL:HG23	1:I:108:LEU:CD2	2.43	0.49
1:I:184:ILE:HG22	1:I:185:LYS:N	2.27	0.49
1:K:107:VAL:HG23	1:K:108:LEU:CD2	2.43	0.49
1:L:107:VAL:HG23	1:L:108:LEU:CD2	2.43	0.49
1:N:107:VAL:HG23	1:N:108:LEU:CD2	2.43	0.49
1:O:228:PHE:CE2	1:O:237:HIS:CE1	3.00	0.49
1:P:229:TYR:C	1:P:229:TYR:CD2	2.91	0.49
1:R:107:VAL:HG23	1:R:108:LEU:CD2	2.43	0.49
1:c:300:GLU:O	1:c:304:GLN:NE2	2.45	0.49
1:d:300:GLU:O	1:d:304:GLN:NE2	2.45	0.49
1:f:229:TYR:C	1:f:229:TYR:CD2	2.91	0.49
1:g:229:TYR:C	1:g:229:TYR:CD2	2.91	0.49
1:i:229:TYR:C	1:i:229:TYR:CD2	2.91	0.49
1:j:403:PHE:HB3	1:j:429:LEU:HD12	1.93	0.49
1:l:107:VAL:HG23	1:l:108:LEU:CD2	2.43	0.49
1:n:107:VAL:HG23	1:n:108:LEU:CD2	2.43	0.49
1:n:403:PHE:HB3	1:n:429:LEU:HD12	1.93	0.49
1:o:107:VAL:HG23	1:o:108:LEU:CD2	2.43	0.49
1:o:228:PHE:CE2	1:o:237:HIS:CE1	3.01	0.49
1:o:300:GLU:O	1:o:304:GLN:NE2	2.45	0.49
1:r:107:VAL:HG23	1:r:108:LEU:CD2	2.43	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:179:ARG:CG	1:D:61:MET:HB2	2.43	0.49
1:E:229:TYR:C	1:E:229:TYR:CD2	2.91	0.49
1:J:228:PHE:CE2	1:J:237:HIS:CE1	3.00	0.49
1:K:228:PHE:CE2	1:K:237:HIS:CE1	3.01	0.49
1:M:184:ILE:HG22	1:M:185:LYS:N	2.27	0.49
1:M:231:ASP:HB3	1:M:236:LYS:CE	2.43	0.49
1:M:231:ASP:O	1:M:234:SER:OG	2.29	0.49
1:O:229:TYR:C	1:O:229:TYR:CD2	2.91	0.49
1:P:107:VAL:HG23	1:P:108:LEU:CD2	2.43	0.49
1:P:179:ARG:CG	1:Q:61:MET:HB2	2.42	0.49
1:a:184:ILE:HG22	1:a:185:LYS:N	2.27	0.49
1:g:184:ILE:HG22	1:g:185:LYS:N	2.27	0.49
1:h:184:ILE:HG22	1:h:185:LYS:N	2.27	0.49
1:m:61:MET:HB2	1:n:179:ARG:CG	2.41	0.49
1:m:229:TYR:CD2	1:m:229:TYR:C	2.91	0.49
1:o:117:GLN:O	1:o:117:GLN:HG3	2.12	0.49
1:p:228:PHE:CE2	1:p:237:HIS:CE1	3.00	0.49
1:q:403:PHE:HB3	1:q:429:LEU:HD12	1.94	0.49
1:B:184:ILE:HG22	1:B:185:LYS:N	2.27	0.49
1:B:447:TYR:CB	1:B:479:PHE:CE1	2.96	0.49
1:C:231:ASP:HB3	1:C:236:LYS:CE	2.42	0.49
1:D:184:ILE:HG22	1:D:185:LYS:N	2.27	0.49
1:G:184:ILE:HG22	1:G:185:LYS:N	2.27	0.49
1:H:300:GLU:O	1:H:304:GLN:NE2	2.45	0.49
1:O:107:VAL:HG23	1:O:108:LEU:CD2	2.43	0.49
1:O:300:GLU:O	1:O:304:GLN:NE2	2.45	0.49
1:Q:228:PHE:CE2	1:Q:237:HIS:CE1	3.01	0.49
1:a:229:TYR:C	1:a:229:TYR:CD2	2.91	0.49
1:d:184:ILE:HG22	1:d:185:LYS:N	2.27	0.49
1:d:231:ASP:HB3	1:d:236:LYS:CE	2.43	0.49
1:e:231:ASP:HB3	1:e:236:LYS:CE	2.43	0.49
1:i:107:VAL:HG23	1:i:108:LEU:CD2	2.43	0.49
1:j:179:ARG:CG	1:n:61:MET:HB2	2.42	0.49
1:j:231:ASP:HB3	1:j:236:LYS:CE	2.43	0.49
1:j:231:ASP:O	1:j:234:SER:OG	2.29	0.49
1:m:107:VAL:HG23	1:m:108:LEU:CD2	2.43	0.49
1:m:228:PHE:CE2	1:m:237:HIS:CE1	3.01	0.49
1:q:228:PHE:CE2	1:q:237:HIS:CE1	3.00	0.49
1:r:184:ILE:HG22	1:r:185:LYS:N	2.27	0.49
1:A:107:VAL:HG23	1:A:108:LEU:CD2	2.43	0.49
1:C:229:TYR:C	1:C:229:TYR:CD2	2.91	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:231:ASP:HB3	1:D:236:LYS:CE	2.43	0.49
1:F:179:ARG:CG	1:G:61:MET:HB2	2.41	0.49
1:G:229:TYR:C	1:G:229:TYR:CD2	2.91	0.49
1:L:403:PHE:HB3	1:L:429:LEU:HD12	1.93	0.49
1:O:447:TYR:CB	1:O:479:PHE:CE1	2.96	0.49
1:R:228:PHE:CE2	1:R:237:HIS:CE1	3.00	0.49
1:b:107:VAL:HG23	1:b:108:LEU:CD2	2.43	0.49
1:b:229:TYR:C	1:b:229:TYR:CD2	2.91	0.49
1:d:229:TYR:CD2	1:d:229:TYR:C	2.91	0.49
1:i:228:PHE:CE2	1:i:237:HIS:CE1	3.00	0.49
1:m:300:GLU:O	1:m:304:GLN:NE2	2.45	0.49
1:m:450:SER:OG	1:m:459:ARG:O	2.29	0.49
1:n:447:TYR:CB	1:n:479:PHE:CE1	2.96	0.49
1:p:231:ASP:O	1:p:234:SER:OG	2.28	0.49
1:A:229:TYR:CD2	1:A:229:TYR:C	2.91	0.48
1:C:228:PHE:CE2	1:C:237:HIS:CE1	3.00	0.48
1:D:229:TYR:C	1:D:229:TYR:CD2	2.91	0.48
1:I:179:ARG:CG	1:J:61:MET:HB2	2.43	0.48
1:M:403:PHE:HB3	1:M:429:LEU:HD12	1.94	0.48
1:P:228:PHE:CE2	1:P:237:HIS:CE1	3.00	0.48
1:Q:231:ASP:O	1:Q:234:SER:OG	2.28	0.48
1:R:229:TYR:C	1:R:229:TYR:CD2	2.91	0.48
1:a:228:PHE:CE2	1:a:237:HIS:CE1	3.00	0.48
1:g:228:PHE:CE2	1:g:237:HIS:CE1	3.00	0.48
1:j:107:VAL:HG23	1:j:108:LEU:CD2	2.43	0.48
1:k:228:PHE:CE2	1:k:237:HIS:CE1	3.00	0.48
1:m:447:TYR:CB	1:m:479:PHE:CE1	2.96	0.48
1:p:229:TYR:C	1:p:229:TYR:CD2	2.91	0.48
1:B:228:PHE:CE2	1:B:237:HIS:CE1	3.00	0.48
1:B:229:TYR:C	1:B:229:TYR:CD2	2.91	0.48
1:C:184:ILE:HG22	1:C:185:LYS:N	2.27	0.48
1:D:228:PHE:CE2	1:D:237:HIS:CE1	3.00	0.48
1:F:228:PHE:CE2	1:F:237:HIS:CE1	3.01	0.48
1:F:229:TYR:C	1:F:229:TYR:CD2	2.91	0.48
1:G:231:ASP:HB3	1:G:236:LYS:CE	2.43	0.48
1:H:229:TYR:C	1:H:229:TYR:CD2	2.91	0.48
1:M:107:VAL:HG23	1:M:108:LEU:CD2	2.43	0.48
1:N:447:TYR:CB	1:N:479:PHE:CE1	2.96	0.48
1:Q:229:TYR:CD2	1:Q:229:TYR:C	2.92	0.48
1:d:228:PHE:CE2	1:d:237:HIS:CE1	3.00	0.48
1:e:184:ILE:HG22	1:e:185:LYS:N	2.27	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:e:228:PHE:CE2	1:e:237:HIS:CE1	3.01	0.48
1:h:286:MET:HE2	1:h:396:ILE:CB	2.43	0.48
1:j:48:SER:HB3	1:l:192:ILE:HB	1.95	0.48
1:k:184:ILE:HG22	1:k:185:LYS:N	2.27	0.48
1:k:229:TYR:C	1:k:229:TYR:CD2	2.91	0.48
1:o:403:PHE:HB3	1:o:429:LEU:HD12	1.93	0.48
1:C:300:GLU:O	1:C:304:GLN:NE2	2.45	0.48
1:D:192:ILE:HB	1:E:48:SER:HB3	1.95	0.48
1:E:228:PHE:CE2	1:E:237:HIS:CE1	3.00	0.48
1:E:286:MET:HE2	1:E:396:ILE:CB	2.43	0.48
1:F:286:MET:HE2	1:F:396:ILE:CB	2.43	0.48
1:J:300:GLU:O	1:J:304:GLN:NE2	2.45	0.48
1:N:229:TYR:CD2	1:N:229:TYR:C	2.91	0.48
1:N:231:ASP:HB3	1:N:236:LYS:CE	2.43	0.48
1:O:287:ILE:HD13	1:O:287:ILE:N	2.29	0.48
1:P:231:ASP:HB3	1:P:236:LYS:CE	2.43	0.48
1:b:231:ASP:HB3	1:b:236:LYS:CE	2.43	0.48
1:b:447:TYR:CB	1:b:479:PHE:CE1	2.96	0.48
1:c:286:MET:HE2	1:c:396:ILE:CB	2.43	0.48
1:e:229:TYR:C	1:e:229:TYR:CD2	2.92	0.48
1:g:286:MET:HE2	1:g:396:ILE:CB	2.43	0.48
1:j:229:TYR:CD2	1:j:229:TYR:C	2.91	0.48
1:p:287:ILE:HD13	1:p:287:ILE:N	2.29	0.48
1:A:228:PHE:CE2	1:A:237:HIS:CE1	3.00	0.48
1:A:447:TYR:CB	1:A:479:PHE:CE1	2.96	0.48
1:C:107:VAL:HG23	1:C:108:LEU:CD2	2.43	0.48
1:G:286:MET:HE2	1:G:396:ILE:CB	2.43	0.48
1:H:107:VAL:HG23	1:H:108:LEU:CD2	2.43	0.48
1:H:286:MET:HE2	1:H:396:ILE:CB	2.43	0.48
1:L:450:SER:OG	1:L:459:ARG:O	2.29	0.48
1:N:287:ILE:HD13	1:N:287:ILE:N	2.29	0.48
1:b:228:PHE:CE2	1:b:237:HIS:CE1	3.01	0.48
1:c:107:VAL:HG23	1:c:108:LEU:CD2	2.43	0.48
1:e:107:VAL:HG23	1:e:108:LEU:CD2	2.43	0.48
1:f:228:PHE:CE2	1:f:237:HIS:CE1	3.00	0.48
1:f:286:MET:HE2	1:f:396:ILE:CB	2.43	0.48
1:g:179:ARG:CG	1:h:61:MET:HB2	2.42	0.48
1:h:229:TYR:C	1:h:229:TYR:CD2	2.91	0.48
1:h:231:ASP:HB3	1:h:236:LYS:CE	2.43	0.48
1:i:231:ASP:HB3	1:i:236:LYS:CE	2.43	0.48
1:i:287:ILE:HD13	1:i:287:ILE:N	2.29	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:m:287:ILE:HD13	1:m:287:ILE:N	2.29	0.48
1:n:229:TYR:CD2	1:n:229:TYR:C	2.92	0.48
1:n:231:ASP:HB3	1:n:236:LYS:CE	2.43	0.48
1:q:184:ILE:HG22	1:q:185:LYS:N	2.27	0.48
1:q:300:GLU:O	1:q:304:GLN:NE2	2.45	0.48
1:D:286:MET:HE2	1:D:396:ILE:CB	2.43	0.48
1:I:286:MET:HE2	1:I:396:ILE:CB	2.43	0.48
1:J:184:ILE:HG22	1:J:185:LYS:N	2.27	0.48
1:J:403:PHE:HB3	1:J:429:LEU:HD12	1.94	0.48
1:P:287:ILE:HD13	1:P:287:ILE:N	2.29	0.48
1:Q:287:ILE:HD13	1:Q:287:ILE:N	2.29	0.48
1:R:184:ILE:HG22	1:R:185:LYS:N	2.27	0.48
1:c:229:TYR:C	1:c:229:TYR:CD2	2.91	0.48
1:d:286:MET:HE2	1:d:396:ILE:CB	2.43	0.48
1:e:300:GLU:O	1:e:304:GLN:NE2	2.45	0.48
1:j:184:ILE:HG22	1:j:185:LYS:N	2.27	0.48
1:k:287:ILE:HD13	1:k:287:ILE:N	2.29	0.48
1:n:287:ILE:HD13	1:n:287:ILE:N	2.29	0.48
1:q:48:SER:HB3	1:r:192:ILE:HB	1.96	0.48
1:H:192:ILE:HB	1:I:48:SER:HB3	1.96	0.48
1:J:192:ILE:HB	1:K:48:SER:HB3	1.96	0.48
1:L:229:TYR:CD2	1:L:229:TYR:C	2.91	0.48
1:R:287:ILE:HD13	1:R:287:ILE:N	2.29	0.48
1:j:287:ILE:HD13	1:j:287:ILE:N	2.29	0.48
1:j:447:TYR:CB	1:j:479:PHE:CE1	2.96	0.48
1:l:450:SER:OG	1:l:459:ARG:O	2.29	0.48
1:q:286:MET:HE2	1:q:396:ILE:CB	2.43	0.48
1:A:287:ILE:HD13	1:A:287:ILE:N	2.29	0.48
1:B:107:VAL:HG23	1:B:108:LEU:CD2	2.43	0.48
1:L:231:ASP:O	1:L:234:SER:OG	2.29	0.48
1:M:287:ILE:HD13	1:M:287:ILE:N	2.29	0.48
1:b:287:ILE:HD13	1:b:287:ILE:N	2.29	0.48
1:f:184:ILE:HG22	1:f:185:LYS:N	2.27	0.48
1:k:231:ASP:HB3	1:k:236:LYS:CE	2.43	0.48
1:r:300:GLU:O	1:r:304:GLN:NE2	2.45	0.48
1:C:286:MET:HE2	1:C:396:ILE:CB	2.43	0.48
1:E:184:ILE:HG22	1:E:185:LYS:N	2.27	0.48
1:L:231:ASP:HB3	1:L:236:LYS:CE	2.43	0.48
1:L:287:ILE:HD13	1:L:287:ILE:N	2.29	0.48
1:M:192:ILE:HB	1:N:48:SER:HB3	1.96	0.48
1:N:179:ARG:CG	1:O:61:MET:HB2	2.43	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:R:231:ASP:HB3	1:R:236:LYS:CE	2.43	0.48
1:d:179:ARG:CG	1:f:61:MET:HB2	2.43	0.48
1:f:192:ILE:HB	1:g:48:SER:HB3	1.96	0.48
1:f:447:TYR:CB	1:f:479:PHE:CE1	2.96	0.48
1:g:107:VAL:HG23	1:g:108:LEU:CD2	2.43	0.48
1:l:231:ASP:O	1:l:234:SER:OG	2.29	0.48
1:E:107:VAL:HG23	1:E:108:LEU:CD2	2.43	0.48
1:E:447:TYR:CB	1:E:479:PHE:CE1	2.96	0.48
1:F:107:VAL:HG23	1:F:108:LEU:CD2	2.43	0.48
1:G:179:ARG:CG	1:H:61:MET:HB2	2.42	0.48
1:H:184:ILE:HG22	1:H:185:LYS:N	2.27	0.48
1:M:229:TYR:CD2	1:M:229:TYR:C	2.92	0.48
1:M:447:TYR:CB	1:M:479:PHE:CE1	2.96	0.48
1:e:286:MET:HE2	1:e:396:ILE:CB	2.43	0.48
1:f:107:VAL:HG23	1:f:108:LEU:CD2	2.43	0.48
1:f:287:ILE:HD13	1:f:287:ILE:N	2.29	0.48
1:i:192:ILE:HB	1:p:48:SER:HB3	1.96	0.48
1:l:229:TYR:CD2	1:l:229:TYR:C	2.91	0.48
1:l:287:ILE:HD13	1:l:287:ILE:N	2.29	0.48
1:m:48:SER:HB3	1:n:192:ILE:HB	1.96	0.48
1:r:229:TYR:C	1:r:229:TYR:CD2	2.91	0.48
1:B:286:MET:HE2	1:B:396:ILE:CB	2.43	0.48
1:B:287:ILE:HD13	1:B:287:ILE:N	2.29	0.48
1:D:107:VAL:HG23	1:D:108:LEU:CD2	2.43	0.48
1:F:192:ILE:HB	1:G:48:SER:HB3	1.96	0.48
1:I:447:TYR:CB	1:I:479:PHE:CE1	2.96	0.48
1:N:300:GLU:O	1:N:304:GLN:NE2	2.45	0.48
1:d:48:SER:HB3	1:e:192:ILE:HB	1.96	0.48
1:d:107:VAL:HG23	1:d:108:LEU:CD2	2.43	0.48
1:k:231:ASP:O	1:k:234:SER:OG	2.29	0.48
1:k:447:TYR:CB	1:k:479:PHE:CE1	2.96	0.48
1:A:192:ILE:HB	1:B:48:SER:HB3	1.96	0.47
1:D:450:SER:OG	1:D:459:ARG:O	2.29	0.47
1:E:287:ILE:HD13	1:E:287:ILE:N	2.29	0.47
1:I:229:TYR:CD2	1:I:229:TYR:C	2.91	0.47
1:I:300:GLU:O	1:I:304:GLN:NE2	2.45	0.47
1:K:287:ILE:HD13	1:K:287:ILE:N	2.29	0.47
1:L:192:ILE:HB	1:M:48:SER:HB3	1.96	0.47
1:R:231:ASP:O	1:R:234:SER:OG	2.28	0.47
1:a:107:VAL:HG23	1:a:108:LEU:CD2	2.43	0.47
1:a:287:ILE:HD13	1:a:287:ILE:N	2.29	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:b:48:SER:HB3	1:k:192:ILE:HB	1.96	0.47
1:c:184:ILE:HG22	1:c:185:LYS:N	2.27	0.47
1:l:231:ASP:HB3	1:l:236:LYS:CE	2.43	0.47
1:B:231:ASP:HB3	1:B:236:LYS:CE	2.43	0.47
1:G:107:VAL:HG23	1:G:108:LEU:CD2	2.43	0.47
1:R:447:TYR:CB	1:R:479:PHE:CE1	2.96	0.47
1:a:286:MET:HE2	1:a:396:ILE:CB	2.43	0.47
1:h:107:VAL:HG23	1:h:108:LEU:CD2	2.43	0.47
1:o:229:TYR:C	1:o:229:TYR:CD2	2.91	0.47
1:o:287:ILE:HD13	1:o:287:ILE:N	2.29	0.47
1:p:344:LEU:HD12	1:p:344:LEU:O	2.14	0.47
1:A:249:ARG:NH1	1:A:249:ARG:HB2	2.30	0.47
1:H:344:LEU:HD12	1:H:344:LEU:O	2.14	0.47
1:N:344:LEU:HD12	1:N:344:LEU:O	2.14	0.47
1:O:192:ILE:HB	1:P:48:SER:HB3	1.96	0.47
1:P:344:LEU:HD12	1:P:344:LEU:O	2.14	0.47
1:Q:231:ASP:HB3	1:Q:236:LYS:CE	2.43	0.47
1:a:231:ASP:HB3	1:a:236:LYS:CE	2.43	0.47
1:c:344:LEU:HD12	1:c:344:LEU:O	2.14	0.47
1:n:300:GLU:O	1:n:304:GLN:NE2	2.45	0.47
1:n:344:LEU:HD12	1:n:344:LEU:O	2.14	0.47
1:p:231:ASP:HB3	1:p:236:LYS:CE	2.43	0.47
1:q:287:ILE:HD13	1:q:287:ILE:N	2.29	0.47
1:A:273:LEU:HD11	1:A:316:ILE:HB	1.96	0.47
1:B:300:GLU:O	1:B:304:GLN:NE2	2.45	0.47
1:I:344:LEU:O	1:I:344:LEU:HD12	2.14	0.47
1:J:249:ARG:NH1	1:J:249:ARG:HB2	2.30	0.47
1:J:273:LEU:HD11	1:J:316:ILE:HB	1.96	0.47
1:J:287:ILE:HD13	1:J:287:ILE:N	2.29	0.47
1:K:229:TYR:C	1:K:229:TYR:CD2	2.91	0.47
1:M:139:PHE:HB2	1:M:228:PHE:CE1	2.50	0.47
1:Q:249:ARG:NH1	1:Q:249:ARG:HB2	2.30	0.47
1:b:249:ARG:NH1	1:b:249:ARG:HB2	2.30	0.47
1:b:273:LEU:HD11	1:b:316:ILE:HB	1.96	0.47
1:b:344:LEU:HD12	1:b:344:LEU:O	2.14	0.47
1:c:61:MET:HB2	1:h:179:ARG:CG	2.43	0.47
1:d:450:SER:OG	1:d:459:ARG:O	2.29	0.47
1:i:344:LEU:HD12	1:i:344:LEU:O	2.14	0.47
1:A:344:LEU:O	1:A:344:LEU:HD12	2.14	0.47
1:C:287:ILE:N	1:C:287:ILE:HD13	2.29	0.47
1:C:290:VAL:O	1:C:302:LYS:NZ	2.46	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:229:TYR:C	1:J:229:TYR:CD2	2.91	0.47
1:O:139:PHE:HB2	1:O:228:PHE:CE1	2.50	0.47
1:Q:344:LEU:HD12	1:Q:344:LEU:O	2.14	0.47
1:R:344:LEU:HD12	1:R:344:LEU:O	2.14	0.47
1:b:286:MET:HE2	1:b:396:ILE:CB	2.43	0.47
1:e:287:ILE:HD13	1:e:287:ILE:N	2.29	0.47
1:j:139:PHE:HB2	1:j:228:PHE:CE1	2.50	0.47
1:m:249:ARG:NH1	1:m:249:ARG:HB2	2.30	0.47
1:p:249:ARG:NH1	1:p:249:ARG:HB2	2.30	0.47
1:q:273:LEU:HD11	1:q:316:ILE:HB	1.96	0.47
1:r:273:LEU:HD11	1:r:316:ILE:HB	1.96	0.47
1:C:249:ARG:NH1	1:C:249:ARG:HB2	2.30	0.47
1:E:231:ASP:HB3	1:E:236:LYS:CE	2.43	0.47
1:I:273:LEU:HD11	1:I:316:ILE:HB	1.96	0.47
1:K:273:LEU:HD11	1:K:316:ILE:HB	1.96	0.47
1:L:249:ARG:NH1	1:L:249:ARG:HB2	2.30	0.47
1:R:273:LEU:HD11	1:R:316:ILE:HB	1.96	0.47
1:R:286:MET:HE2	1:R:396:ILE:CB	2.43	0.47
1:a:300:GLU:O	1:a:304:GLN:NE2	2.45	0.47
1:d:139:PHE:HB2	1:d:228:PHE:CE1	2.50	0.47
1:e:249:ARG:NH1	1:e:249:ARG:HB2	2.30	0.47
1:k:273:LEU:HD11	1:k:316:ILE:HB	1.96	0.47
1:l:344:LEU:O	1:l:344:LEU:HD12	2.14	0.47
1:m:139:PHE:HB2	1:m:228:PHE:CE1	2.50	0.47
1:m:344:LEU:HD12	1:m:344:LEU:O	2.14	0.47
1:o:273:LEU:HD11	1:o:316:ILE:HB	1.96	0.47
1:q:249:ARG:NH1	1:q:249:ARG:HB2	2.30	0.47
1:r:344:LEU:HD12	1:r:344:LEU:O	2.14	0.47
1:B:273:LEU:HD11	1:B:316:ILE:HB	1.96	0.47
1:C:344:LEU:HD12	1:C:344:LEU:O	2.14	0.47
1:D:139:PHE:HB2	1:D:228:PHE:CE1	2.50	0.47
1:H:249:ARG:HB2	1:H:249:ARG:NH1	2.30	0.47
1:K:139:PHE:HB2	1:K:228:PHE:CE1	2.50	0.47
1:L:146:THR:HG22	1:L:147:ALA:H	1.80	0.47
1:L:344:LEU:O	1:L:344:LEU:HD12	2.14	0.47
1:M:249:ARG:NH1	1:M:249:ARG:HB2	2.30	0.47
1:O:249:ARG:NH1	1:O:249:ARG:HB2	2.30	0.47
1:O:344:LEU:HD12	1:O:344:LEU:O	2.14	0.47
1:a:143:VAL:HG22	1:a:192:ILE:CD1	2.45	0.47
1:a:273:LEU:HD11	1:a:316:ILE:HB	1.96	0.47
1:c:249:ARG:HB2	1:c:249:ARG:NH1	2.30	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:c:287:ILE:HD13	1:c:287:ILE:N	2.29	0.47
1:d:287:ILE:HD13	1:d:287:ILE:N	2.29	0.47
1:d:447:TYR:CB	1:d:479:PHE:CE1	2.96	0.47
1:e:344:LEU:HD12	1:e:344:LEU:O	2.14	0.47
1:f:231:ASP:HB3	1:f:236:LYS:CE	2.43	0.47
1:f:344:LEU:HD12	1:f:344:LEU:O	2.14	0.47
1:j:192:ILE:HB	1:n:48:SER:HB3	1.97	0.47
1:j:249:ARG:NH1	1:j:249:ARG:HB2	2.30	0.47
1:k:344:LEU:HD12	1:k:344:LEU:O	2.14	0.47
1:l:249:ARG:NH1	1:l:249:ARG:HB2	2.30	0.47
1:l:447:TYR:CB	1:l:479:PHE:CE1	2.96	0.47
1:n:249:ARG:NH1	1:n:249:ARG:HB2	2.30	0.47
1:o:48:SER:HB3	1:q:192:ILE:HB	1.97	0.47
1:o:139:PHE:HB2	1:o:228:PHE:CE1	2.50	0.47
1:o:231:ASP:O	1:o:234:SER:OG	2.28	0.47
1:q:229:TYR:C	1:q:229:TYR:CD2	2.91	0.47
1:B:143:VAL:HG22	1:B:192:ILE:CD1	2.45	0.47
1:D:287:ILE:HD13	1:D:287:ILE:N	2.29	0.47
1:D:344:LEU:O	1:D:344:LEU:HD12	2.14	0.47
1:E:192:ILE:HB	1:F:48:SER:HB3	1.97	0.47
1:E:344:LEU:HD12	1:E:344:LEU:O	2.14	0.47
1:G:344:LEU:HD12	1:G:344:LEU:O	2.14	0.47
1:G:447:TYR:CB	1:G:479:PHE:CE1	2.96	0.47
1:H:287:ILE:HD13	1:H:287:ILE:N	2.29	0.47
1:H:447:TYR:CB	1:H:479:PHE:CE1	2.96	0.47
1:I:287:ILE:HD13	1:I:287:ILE:N	2.29	0.47
1:J:231:ASP:HB3	1:J:236:LYS:CE	2.43	0.47
1:K:231:ASP:O	1:K:234:SER:OG	2.29	0.47
1:N:146:THR:HG22	1:N:147:ALA:H	1.80	0.47
1:h:447:TYR:CB	1:h:479:PHE:CE1	2.96	0.47
1:i:143:VAL:HG22	1:i:192:ILE:CD1	2.45	0.47
1:l:146:THR:HG22	1:l:147:ALA:H	1.80	0.47
1:A:117:GLN:C	1:A:118:THR:HG23	2.39	0.47
1:C:143:VAL:HG22	1:C:192:ILE:CD1	2.45	0.47
1:D:447:TYR:CB	1:D:479:PHE:CE1	2.96	0.47
1:F:143:VAL:HG22	1:F:192:ILE:CD1	2.45	0.47
1:F:249:ARG:NH1	1:F:249:ARG:HB2	2.30	0.47
1:G:139:PHE:HB2	1:G:228:PHE:CE1	2.50	0.47
1:G:146:THR:HG22	1:G:147:ALA:H	1.80	0.47
1:G:249:ARG:NH1	1:G:249:ARG:HB2	2.30	0.47
1:J:146:THR:HG22	1:J:147:ALA:H	1.80	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:179:ARG:CG	1:L:61:MET:HB2	2.43	0.47
1:L:273:LEU:HD11	1:L:316:ILE:HB	1.96	0.47
1:L:447:TYR:CB	1:L:479:PHE:CE1	2.96	0.47
1:N:249:ARG:NH1	1:N:249:ARG:HB2	2.30	0.47
1:Q:286:MET:HE2	1:Q:396:ILE:CB	2.43	0.47
1:a:192:ILE:HB	1:e:48:SER:HB3	1.97	0.47
1:c:273:LEU:HD11	1:c:316:ILE:HB	1.96	0.47
1:c:447:TYR:CB	1:c:479:PHE:CE1	2.96	0.47
1:d:344:LEU:O	1:d:344:LEU:HD12	2.14	0.47
1:e:273:LEU:HD11	1:e:316:ILE:HB	1.96	0.47
1:g:143:VAL:HG22	1:g:192:ILE:CD1	2.45	0.47
1:g:192:ILE:HB	1:h:48:SER:HB3	1.97	0.47
1:g:249:ARG:NH1	1:g:249:ARG:HB2	2.30	0.47
1:h:146:THR:HG22	1:h:147:ALA:H	1.80	0.47
1:h:249:ARG:NH1	1:h:249:ARG:HB2	2.30	0.47
1:j:143:VAL:HG22	1:j:192:ILE:CD1	2.45	0.47
1:j:273:LEU:HD11	1:j:316:ILE:HB	1.96	0.47
1:k:286:MET:HE2	1:k:396:ILE:CB	2.44	0.47
1:l:61:MET:HB2	1:o:179:ARG:CG	2.43	0.47
1:o:249:ARG:NH1	1:o:249:ARG:HB2	2.30	0.47
1:p:273:LEU:HD11	1:p:316:ILE:HB	1.96	0.47
1:q:146:THR:HG22	1:q:147:ALA:H	1.80	0.47
1:q:231:ASP:O	1:q:234:SER:OG	2.28	0.47
1:r:287:ILE:HD13	1:r:287:ILE:N	2.29	0.47
1:B:344:LEU:HD12	1:B:344:LEU:O	2.14	0.47
1:C:273:LEU:HD11	1:C:316:ILE:HB	1.96	0.47
1:D:273:LEU:HD11	1:D:316:ILE:HB	1.96	0.47
1:E:143:VAL:HG22	1:E:192:ILE:CD1	2.45	0.47
1:E:146:THR:HG22	1:E:147:ALA:H	1.80	0.47
1:E:249:ARG:NH1	1:E:249:ARG:HB2	2.30	0.47
1:G:273:LEU:HD11	1:G:316:ILE:HB	1.96	0.47
1:H:143:VAL:HG22	1:H:192:ILE:CD1	2.45	0.47
1:H:273:LEU:HD11	1:H:316:ILE:HB	1.96	0.47
1:I:249:ARG:NH1	1:I:249:ARG:HB2	2.30	0.47
1:K:143:VAL:HG22	1:K:192:ILE:CD1	2.45	0.47
1:K:249:ARG:NH1	1:K:249:ARG:HB2	2.30	0.47
1:L:139:PHE:HB2	1:L:228:PHE:CE1	2.50	0.47
1:M:143:VAL:HG22	1:M:192:ILE:CD1	2.45	0.47
1:M:146:THR:HG22	1:M:147:ALA:H	1.80	0.47
1:M:273:LEU:HD11	1:M:316:ILE:HB	1.96	0.47
1:N:143:VAL:HG22	1:N:192:ILE:CD1	2.45	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:P:143:VAL:HG22	1:P:192:ILE:CD1	2.45	0.47
1:P:192:ILE:HB	1:Q:48:SER:HB3	1.97	0.47
1:P:249:ARG:HB2	1:P:249:ARG:NH1	2.30	0.47
1:P:286:MET:HE2	1:P:396:ILE:CB	2.43	0.47
1:Q:143:VAL:HG22	1:Q:192:ILE:CD1	2.45	0.47
1:Q:373:ILE:HD11	1:Q:460:VAL:HG11	1.97	0.47
1:d:273:LEU:HD11	1:d:316:ILE:HB	1.96	0.47
1:e:143:VAL:HG22	1:e:192:ILE:CD1	2.45	0.47
1:g:139:PHE:HB2	1:g:228:PHE:CE1	2.50	0.47
1:g:447:TYR:CB	1:g:479:PHE:CE1	2.96	0.47
1:h:139:PHE:HB2	1:h:228:PHE:CE1	2.50	0.47
1:h:344:LEU:HD12	1:h:344:LEU:O	2.14	0.47
1:i:139:PHE:HB2	1:i:228:PHE:CE1	2.50	0.47
1:i:249:ARG:NH1	1:i:249:ARG:HB2	2.30	0.47
1:j:146:THR:HG22	1:j:147:ALA:H	1.80	0.47
1:l:273:LEU:HD11	1:l:316:ILE:HB	1.96	0.47
1:n:143:VAL:HG22	1:n:192:ILE:CD1	2.45	0.47
1:n:146:THR:HG22	1:n:147:ALA:H	1.80	0.47
1:o:143:VAL:HG22	1:o:192:ILE:CD1	2.45	0.47
1:q:231:ASP:HB3	1:q:236:LYS:CE	2.43	0.47
1:r:249:ARG:NH1	1:r:249:ARG:HB2	2.30	0.47
1:A:231:ASP:O	1:A:234:SER:OG	2.29	0.46
1:E:139:PHE:HB2	1:E:228:PHE:CE1	2.50	0.46
1:F:139:PHE:HB2	1:F:228:PHE:CE1	2.50	0.46
1:F:447:TYR:CB	1:F:479:PHE:CE1	2.96	0.46
1:J:139:PHE:HB2	1:J:228:PHE:CE1	2.50	0.46
1:J:231:ASP:O	1:J:234:SER:OG	2.29	0.46
1:N:139:PHE:HB2	1:N:228:PHE:CE1	2.50	0.46
1:P:139:PHE:HB2	1:P:228:PHE:CE1	2.50	0.46
1:P:273:LEU:HD11	1:P:316:ILE:HB	1.96	0.46
1:Q:273:LEU:HD11	1:Q:316:ILE:HB	1.96	0.46
1:a:139:PHE:HB2	1:a:228:PHE:CE1	2.50	0.46
1:c:143:VAL:HG22	1:c:192:ILE:CD1	2.45	0.46
1:f:143:VAL:HG22	1:f:192:ILE:CD1	2.45	0.46
1:f:146:THR:HG22	1:f:147:ALA:H	1.80	0.46
1:j:344:LEU:HD12	1:j:344:LEU:O	2.14	0.46
1:l:139:PHE:HB2	1:l:228:PHE:CE1	2.50	0.46
1:n:139:PHE:HB2	1:n:228:PHE:CE1	2.50	0.46
1:p:286:MET:HE2	1:p:396:ILE:CB	2.43	0.46
1:A:143:VAL:HG22	1:A:192:ILE:CD1	2.45	0.46
1:B:139:PHE:HB2	1:B:228:PHE:CE1	2.50	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:373:ILE:HD11	1:B:460:VAL:HG11	1.97	0.46
1:C:373:ILE:HD11	1:C:460:VAL:HG11	1.98	0.46
1:E:273:LEU:HD11	1:E:316:ILE:HB	1.96	0.46
1:H:139:PHE:HB2	1:H:228:PHE:CE1	2.50	0.46
1:I:139:PHE:HB2	1:I:228:PHE:CE1	2.50	0.46
1:I:146:THR:HG22	1:I:147:ALA:H	1.80	0.46
1:J:344:LEU:HD12	1:J:344:LEU:O	2.14	0.46
1:K:286:MET:HE2	1:K:396:ILE:CB	2.43	0.46
1:L:286:MET:HE2	1:L:396:ILE:CB	2.43	0.46
1:N:273:LEU:HD11	1:N:316:ILE:HB	1.96	0.46
1:O:286:MET:HE2	1:O:396:ILE:CB	2.43	0.46
1:Q:139:PHE:HB2	1:Q:228:PHE:CE1	2.50	0.46
1:R:143:VAL:HG22	1:R:192:ILE:CD1	2.45	0.46
1:R:373:ILE:HD11	1:R:460:VAL:HG11	1.98	0.46
1:a:344:LEU:HD12	1:a:344:LEU:O	2.14	0.46
1:b:143:VAL:HG22	1:b:192:ILE:CD1	2.45	0.46
1:b:231:ASP:O	1:b:234:SER:OG	2.29	0.46
1:d:249:ARG:NH1	1:d:249:ARG:HB2	2.30	0.46
1:e:373:ILE:HD11	1:e:460:VAL:HG11	1.97	0.46
1:f:139:PHE:HB2	1:f:228:PHE:CE1	2.50	0.46
1:f:249:ARG:NH1	1:f:249:ARG:HB2	2.30	0.46
1:f:273:LEU:HD11	1:f:316:ILE:HB	1.96	0.46
1:h:273:LEU:HD11	1:h:316:ILE:HB	1.96	0.46
1:h:287:ILE:HD13	1:h:287:ILE:N	2.29	0.46
1:i:273:LEU:HD11	1:i:316:ILE:HB	1.96	0.46
1:i:286:MET:HE2	1:i:396:ILE:CB	2.43	0.46
1:i:373:ILE:HD11	1:i:460:VAL:HG11	1.98	0.46
1:k:373:ILE:HD11	1:k:460:VAL:HG11	1.97	0.46
1:n:273:LEU:HD11	1:n:316:ILE:HB	1.96	0.46
1:p:143:VAL:HG22	1:p:192:ILE:CD1	2.45	0.46
1:p:373:ILE:HD11	1:p:460:VAL:HG11	1.98	0.46
1:p:447:TYR:CB	1:p:479:PHE:CE1	2.96	0.46
1:q:344:LEU:HD12	1:q:344:LEU:O	2.14	0.46
1:B:231:ASP:O	1:B:234:SER:OG	2.28	0.46
1:D:249:ARG:NH1	1:D:249:ARG:HB2	2.30	0.46
1:G:287:ILE:HD13	1:G:287:ILE:N	2.29	0.46
1:H:146:THR:HG22	1:H:147:ALA:H	1.80	0.46
1:H:401:VAL:O	1:H:401:VAL:HG12	2.16	0.46
1:K:344:LEU:HD12	1:K:344:LEU:O	2.14	0.46
1:M:286:MET:HE2	1:M:396:ILE:CB	2.43	0.46
1:N:192:ILE:HB	1:O:48:SER:HB3	1.98	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:286:MET:HE2	1:N:396:ILE:CB	2.43	0.46
1:P:373:ILE:HD11	1:P:460:VAL:HG11	1.98	0.46
1:Q:447:TYR:CB	1:Q:479:PHE:CE1	2.96	0.46
1:R:249:ARG:NH1	1:R:249:ARG:HB2	2.30	0.46
1:a:373:ILE:HD11	1:a:460:VAL:HG11	1.98	0.46
1:c:139:PHE:HB2	1:c:228:PHE:CE1	2.50	0.46
1:c:146:THR:HG22	1:c:147:ALA:H	1.80	0.46
1:c:401:VAL:HG12	1:c:401:VAL:O	2.16	0.46
1:j:286:MET:HE2	1:j:396:ILE:CB	2.43	0.46
1:k:143:VAL:HG22	1:k:192:ILE:CD1	2.45	0.46
1:p:139:PHE:HB2	1:p:228:PHE:CE1	2.50	0.46
1:q:139:PHE:HB2	1:q:228:PHE:CE1	2.50	0.46
1:r:146:THR:HG22	1:r:147:ALA:H	1.80	0.46
1:r:447:TYR:CB	1:r:479:PHE:CE1	2.96	0.46
1:A:373:ILE:HD11	1:A:460:VAL:HG11	1.97	0.46
1:B:192:ILE:HB	1:C:48:SER:HB3	1.97	0.46
1:C:139:PHE:HB2	1:C:228:PHE:CE1	2.50	0.46
1:D:373:ILE:HD11	1:D:460:VAL:HG11	1.98	0.46
1:E:290:VAL:O	1:E:302:LYS:NZ	2.46	0.46
1:F:287:ILE:HD13	1:F:287:ILE:N	2.29	0.46
1:F:344:LEU:HD12	1:F:344:LEU:O	2.14	0.46
1:I:192:ILE:HB	1:J:48:SER:HB3	1.98	0.46
1:M:344:LEU:HD12	1:M:344:LEU:O	2.15	0.46
1:O:231:ASP:HB3	1:O:236:LYS:CE	2.43	0.46
1:O:273:LEU:HD11	1:O:316:ILE:HB	1.96	0.46
1:Q:146:THR:HG22	1:Q:147:ALA:H	1.80	0.46
1:a:249:ARG:NH1	1:a:249:ARG:HB2	2.30	0.46
1:b:373:ILE:HD11	1:b:460:VAL:HG11	1.97	0.46
1:d:143:VAL:HG22	1:d:192:ILE:CD1	2.45	0.46
1:d:192:ILE:HB	1:f:48:SER:HB3	1.98	0.46
1:d:373:ILE:HD11	1:d:460:VAL:HG11	1.98	0.46
1:g:287:ILE:HD13	1:g:287:ILE:N	2.29	0.46
1:g:344:LEU:O	1:g:344:LEU:HD12	2.14	0.46
1:k:139:PHE:HB2	1:k:228:PHE:CE1	2.50	0.46
1:k:249:ARG:HB2	1:k:249:ARG:NH1	2.30	0.46
1:l:286:MET:HE2	1:l:396:ILE:CB	2.43	0.46
1:m:146:THR:HG22	1:m:147:ALA:H	1.80	0.46
1:m:231:ASP:HB3	1:m:236:LYS:CE	2.42	0.46
1:m:273:LEU:HD11	1:m:316:ILE:HB	1.96	0.46
1:m:286:MET:HE2	1:m:396:ILE:CB	2.43	0.46
1:p:146:THR:HG22	1:p:147:ALA:H	1.80	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:r:139:PHE:HB2	1:r:228:PHE:CE1	2.50	0.46
1:r:143:VAL:HG22	1:r:192:ILE:CD1	2.45	0.46
1:r:231:ASP:O	1:r:234:SER:OG	2.29	0.46
1:A:300:GLU:O	1:A:304:GLN:NE2	2.45	0.46
1:C:146:THR:HG22	1:C:147:ALA:H	1.80	0.46
1:D:143:VAL:HG22	1:D:192:ILE:CD1	2.45	0.46
1:F:273:LEU:HD11	1:F:316:ILE:HB	1.96	0.46
1:I:143:VAL:HG22	1:I:192:ILE:CD1	2.45	0.46
1:I:231:ASP:O	1:I:234:SER:OG	2.29	0.46
1:J:143:VAL:HG22	1:J:192:ILE:CD1	2.45	0.46
1:J:286:MET:HE2	1:J:396:ILE:CB	2.43	0.46
1:O:146:THR:HG22	1:O:147:ALA:H	1.80	0.46
1:P:146:THR:HG22	1:P:147:ALA:H	1.80	0.46
1:R:139:PHE:HB2	1:R:228:PHE:CE1	2.50	0.46
1:e:139:PHE:HB2	1:e:228:PHE:CE1	2.50	0.46
1:e:146:THR:HG22	1:e:147:ALA:H	1.80	0.46
1:f:290:VAL:O	1:f:302:LYS:NZ	2.46	0.46
1:g:273:LEU:HD11	1:g:316:ILE:HB	1.96	0.46
1:o:286:MET:HE2	1:o:396:ILE:CB	2.43	0.46
1:A:146:THR:HG22	1:A:147:ALA:H	1.80	0.46
1:B:249:ARG:NH1	1:B:249:ARG:HB2	2.30	0.46
1:K:146:THR:HG22	1:K:147:ALA:H	1.80	0.46
1:O:143:VAL:HG22	1:O:192:ILE:CD1	2.45	0.46
1:a:231:ASP:O	1:a:234:SER:OG	2.29	0.46
1:b:139:PHE:HB2	1:b:228:PHE:CE1	2.50	0.46
1:b:146:THR:HG22	1:b:147:ALA:H	1.80	0.46
1:i:146:THR:HG22	1:i:147:ALA:H	1.80	0.46
1:m:373:ILE:HD11	1:m:460:VAL:HG11	1.98	0.46
1:n:286:MET:HE2	1:n:396:ILE:CB	2.44	0.46
1:o:344:LEU:O	1:o:344:LEU:HD12	2.14	0.46
1:A:139:PHE:HB2	1:A:228:PHE:CE1	2.50	0.46
1:G:63:ILE:HA	1:G:82:ILE:O	2.16	0.46
1:H:63:ILE:HA	1:H:82:ILE:O	2.16	0.46
1:J:447:TYR:CB	1:J:479:PHE:CE1	2.96	0.46
1:L:290:VAL:O	1:L:302:LYS:NZ	2.46	0.46
1:M:63:ILE:HA	1:M:82:ILE:O	2.16	0.46
1:N:373:ILE:HD11	1:N:460:VAL:HG11	1.98	0.46
1:O:373:ILE:HD11	1:O:460:VAL:HG11	1.97	0.46
1:b:300:GLU:O	1:b:304:GLN:NE2	2.45	0.46
1:g:63:ILE:HA	1:g:82:ILE:O	2.16	0.46
1:h:63:ILE:HA	1:h:82:ILE:O	2.16	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:j:63:ILE:HA	1:j:82:ILE:O	2.16	0.46
1:k:51:ILE:HB	1:k:94:THR:HB	1.98	0.46
1:q:143:VAL:HG22	1:q:192:ILE:CD1	2.45	0.46
1:r:401:VAL:O	1:r:401:VAL:HG12	2.16	0.46
1:C:231:ASP:O	1:C:234:SER:OG	2.29	0.46
1:E:63:ILE:HA	1:E:82:ILE:O	2.16	0.46
1:F:63:ILE:HA	1:F:82:ILE:O	2.16	0.46
1:G:401:VAL:O	1:G:401:VAL:HG12	2.16	0.46
1:J:63:ILE:HA	1:J:82:ILE:O	2.16	0.46
1:M:373:ILE:HD11	1:M:460:VAL:HG11	1.97	0.46
1:P:51:ILE:HB	1:P:94:THR:HB	1.98	0.46
1:R:51:ILE:HB	1:R:94:THR:HB	1.98	0.46
1:c:63:ILE:HA	1:c:82:ILE:O	2.16	0.46
1:c:231:ASP:O	1:c:234:SER:OG	2.28	0.46
1:e:51:ILE:HB	1:e:94:THR:HB	1.98	0.46
1:f:63:ILE:HA	1:f:82:ILE:O	2.16	0.46
1:h:401:VAL:O	1:h:401:VAL:HG12	2.16	0.46
1:l:143:VAL:HG22	1:l:192:ILE:CD1	2.45	0.46
1:m:143:VAL:HG22	1:m:192:ILE:CD1	2.45	0.46
1:n:373:ILE:HD11	1:n:460:VAL:HG11	1.98	0.46
1:q:447:TYR:CB	1:q:479:PHE:CE1	2.96	0.46
1:B:51:ILE:HB	1:B:94:THR:HB	1.98	0.46
1:C:51:ILE:HB	1:C:94:THR:HB	1.98	0.46
1:E:373:ILE:HD11	1:E:460:VAL:HG11	1.97	0.46
1:H:231:ASP:O	1:H:234:SER:OG	2.28	0.46
1:I:401:VAL:O	1:I:401:VAL:HG12	2.16	0.46
1:K:301:ARG:O	1:K:305:LEU:HB2	2.16	0.46
1:L:143:VAL:HG22	1:L:192:ILE:CD1	2.45	0.46
1:M:301:ARG:O	1:M:305:LEU:HB2	2.16	0.46
1:R:290:VAL:O	1:R:302:LYS:NZ	2.46	0.46
1:e:231:ASP:O	1:e:234:SER:OG	2.29	0.46
1:f:373:ILE:HD11	1:f:460:VAL:HG11	1.97	0.46
1:i:51:ILE:HB	1:i:94:THR:HB	1.98	0.46
1:i:290:VAL:O	1:i:302:LYS:NZ	2.46	0.46
1:j:373:ILE:HD11	1:j:460:VAL:HG11	1.97	0.46
1:o:146:THR:HG22	1:o:147:ALA:H	1.80	0.46
1:q:63:ILE:HA	1:q:82:ILE:O	2.16	0.46
1:D:401:VAL:O	1:D:401:VAL:HG12	2.16	0.46
1:E:51:ILE:HB	1:E:94:THR:HB	1.98	0.46
1:H:301:ARG:O	1:H:305:LEU:HB2	2.16	0.46
1:K:192:ILE:HB	1:L:48:SER:HB3	1.98	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:401:VAL:O	1:L:401:VAL:HG12	2.16	0.46
1:N:63:ILE:HA	1:N:82:ILE:O	2.16	0.46
1:P:301:ARG:O	1:P:305:LEU:HB2	2.16	0.46
1:c:301:ARG:O	1:c:305:LEU:HB2	2.16	0.46
1:d:401:VAL:O	1:d:401:VAL:HG12	2.16	0.46
1:f:51:ILE:HB	1:f:94:THR:HB	1.98	0.46
1:g:301:ARG:O	1:g:305:LEU:HB2	2.16	0.46
1:k:48:SER:HB3	1:p:192:ILE:HB	1.98	0.46
1:l:290:VAL:O	1:l:302:LYS:NZ	2.46	0.46
1:l:401:VAL:O	1:l:401:VAL:HG12	2.16	0.46
1:n:63:ILE:HA	1:n:82:ILE:O	2.16	0.46
1:n:301:ARG:O	1:n:305:LEU:HB2	2.16	0.46
1:o:63:ILE:HA	1:o:82:ILE:O	2.16	0.46
1:o:301:ARG:O	1:o:305:LEU:HB2	2.16	0.46
1:F:301:ARG:O	1:F:305:LEU:HB2	2.16	0.45
1:G:143:VAL:HG22	1:G:192:ILE:CD1	2.45	0.45
1:K:63:ILE:HA	1:K:82:ILE:O	2.16	0.45
1:L:301:ARG:O	1:L:305:LEU:HB2	2.16	0.45
1:O:63:ILE:HA	1:O:82:ILE:O	2.16	0.45
1:Q:401:VAL:O	1:Q:401:VAL:HG12	2.16	0.45
1:a:51:ILE:HB	1:a:94:THR:HB	1.98	0.45
1:b:51:ILE:HB	1:b:94:THR:HB	1.98	0.45
1:c:192:ILE:HB	1:r:48:SER:HB3	1.98	0.45
1:e:63:ILE:HA	1:e:82:ILE:O	2.16	0.45
1:g:146:THR:HG22	1:g:147:ALA:H	1.80	0.45
1:g:373:ILE:HD11	1:g:460:VAL:HG11	1.98	0.45
1:i:301:ARG:O	1:i:305:LEU:HB2	2.16	0.45
1:j:301:ARG:O	1:j:305:LEU:HB2	2.16	0.45
1:l:301:ARG:O	1:l:305:LEU:HB2	2.16	0.45
1:A:51:ILE:HB	1:A:94:THR:HB	1.98	0.45
1:C:63:ILE:HA	1:C:82:ILE:O	2.16	0.45
1:D:231:ASP:O	1:D:234:SER:OG	2.29	0.45
1:E:401:VAL:O	1:E:401:VAL:HG12	2.16	0.45
1:F:373:ILE:HD11	1:F:460:VAL:HG11	1.98	0.45
1:G:192:ILE:HB	1:H:48:SER:HB3	1.98	0.45
1:K:401:VAL:HG12	1:K:401:VAL:O	2.16	0.45
1:N:51:ILE:HB	1:N:94:THR:HB	1.98	0.45
1:N:301:ARG:O	1:N:305:LEU:HB2	2.17	0.45
1:e:447:TYR:CB	1:e:479:PHE:CE1	2.96	0.45
1:f:401:VAL:O	1:f:401:VAL:HG12	2.16	0.45
1:h:143:VAL:HG22	1:h:192:ILE:CD1	2.45	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:h:231:ASP:O	1:h:234:SER:OG	2.28	0.45
1:i:63:ILE:HA	1:i:82:ILE:O	2.16	0.45
1:k:290:VAL:O	1:k:302:LYS:NZ	2.46	0.45
1:k:401:VAL:O	1:k:401:VAL:HG12	2.16	0.45
1:m:63:ILE:HA	1:m:82:ILE:O	2.16	0.45
1:m:301:ARG:O	1:m:305:LEU:HB2	2.16	0.45
1:n:51:ILE:HB	1:n:94:THR:HB	1.98	0.45
1:o:401:VAL:O	1:o:401:VAL:HG12	2.16	0.45
1:o:447:TYR:CB	1:o:479:PHE:CE1	2.96	0.45
1:r:63:ILE:HA	1:r:82:ILE:O	2.16	0.45
1:r:301:ARG:O	1:r:305:LEU:HB2	2.16	0.45
1:D:51:ILE:HB	1:D:94:THR:HB	1.98	0.45
1:D:301:ARG:O	1:D:305:LEU:HB2	2.16	0.45
1:E:301:ARG:O	1:E:305:LEU:HB2	2.16	0.45
1:I:301:ARG:O	1:I:305:LEU:HB2	2.16	0.45
1:L:373:ILE:HD11	1:L:460:VAL:HG11	1.98	0.45
1:N:447:TYR:HB3	1:N:479:PHE:CZ	2.52	0.45
1:P:63:ILE:HA	1:P:82:ILE:O	2.16	0.45
1:R:63:ILE:HA	1:R:82:ILE:O	2.16	0.45
1:R:401:VAL:O	1:R:401:VAL:HG12	2.16	0.45
1:f:301:ARG:O	1:f:305:LEU:HB2	2.16	0.45
1:g:447:TYR:HB3	1:g:479:PHE:CZ	2.52	0.45
1:h:373:ILE:HD11	1:h:460:VAL:HG11	1.98	0.45
1:i:401:VAL:O	1:i:401:VAL:HG12	2.15	0.45
1:k:63:ILE:HA	1:k:82:ILE:O	2.16	0.45
1:l:373:ILE:HD11	1:l:460:VAL:HG11	1.98	0.45
1:n:447:TYR:HB3	1:n:479:PHE:CZ	2.52	0.45
1:p:401:VAL:O	1:p:401:VAL:HG12	2.16	0.45
1:C:447:TYR:CB	1:C:479:PHE:CE1	2.96	0.45
1:C:447:TYR:HB3	1:C:479:PHE:CZ	2.52	0.45
1:F:146:THR:HG22	1:F:147:ALA:H	1.80	0.45
1:G:51:ILE:HB	1:G:94:THR:HB	1.98	0.45
1:G:231:ASP:O	1:G:234:SER:OG	2.29	0.45
1:G:373:ILE:HD11	1:G:460:VAL:HG11	1.98	0.45
1:I:63:ILE:HA	1:I:82:ILE:O	2.16	0.45
1:K:447:TYR:CB	1:K:479:PHE:CE1	2.96	0.45
1:L:63:ILE:HA	1:L:82:ILE:O	2.16	0.45
1:O:301:ARG:O	1:O:305:LEU:HB2	2.16	0.45
1:P:401:VAL:O	1:P:401:VAL:HG12	2.16	0.45
1:R:447:TYR:HB3	1:R:479:PHE:CZ	2.52	0.45
1:b:301:ARG:O	1:b:305:LEU:HB2	2.16	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:c:447:TYR:HB3	1:c:479:PHE:CZ	2.52	0.45
1:d:51:ILE:HB	1:d:94:THR:HB	1.98	0.45
1:d:231:ASP:O	1:d:234:SER:OG	2.29	0.45
1:d:447:TYR:HB3	1:d:479:PHE:CZ	2.52	0.45
1:e:301:ARG:O	1:e:305:LEU:HB2	2.16	0.45
1:e:447:TYR:HB3	1:e:479:PHE:CZ	2.52	0.45
1:h:51:ILE:HB	1:h:94:THR:HB	1.98	0.45
1:i:447:TYR:CB	1:i:479:PHE:CE1	2.96	0.45
1:j:447:TYR:HB3	1:j:479:PHE:CZ	2.52	0.45
1:k:447:TYR:HB3	1:k:479:PHE:CZ	2.52	0.45
1:l:63:ILE:HA	1:l:82:ILE:O	2.16	0.45
1:l:122:HIS:NE2	1:l:259:ALA:O	2.49	0.45
1:p:51:ILE:HB	1:p:94:THR:HB	1.98	0.45
1:C:301:ARG:O	1:C:305:LEU:HB2	2.16	0.45
1:D:447:TYR:HB3	1:D:479:PHE:CZ	2.52	0.45
1:E:231:ASP:O	1:E:234:SER:OG	2.29	0.45
1:F:231:ASP:O	1:F:234:SER:OG	2.28	0.45
1:F:447:TYR:HB3	1:F:479:PHE:CZ	2.52	0.45
1:H:373:ILE:HD11	1:H:460:VAL:HG11	1.98	0.45
1:H:447:TYR:HB3	1:H:479:PHE:CZ	2.52	0.45
1:J:301:ARG:O	1:J:305:LEU:HB2	2.16	0.45
1:K:447:TYR:HB3	1:K:479:PHE:CZ	2.52	0.45
1:P:447:TYR:CB	1:P:479:PHE:CE1	2.96	0.45
1:Q:51:ILE:HB	1:Q:94:THR:HB	1.98	0.45
1:d:301:ARG:O	1:d:305:LEU:HB2	2.17	0.45
1:f:231:ASP:O	1:f:234:SER:OG	2.28	0.45
1:g:231:ASP:O	1:g:234:SER:OG	2.28	0.45
1:l:48:SER:HB3	1:o:192:ILE:HB	1.99	0.45
1:o:447:TYR:HB3	1:o:479:PHE:CZ	2.52	0.45
1:B:290:VAL:O	1:B:302:LYS:NZ	2.46	0.45
1:D:63:ILE:HA	1:D:82:ILE:O	2.16	0.45
1:H:290:VAL:O	1:H:302:LYS:NZ	2.46	0.45
1:J:447:TYR:HB3	1:J:479:PHE:CZ	2.52	0.45
1:K:373:ILE:HD11	1:K:460:VAL:HG11	1.98	0.45
1:R:146:THR:HG22	1:R:147:ALA:H	1.80	0.45
1:c:48:SER:HB3	1:h:192:ILE:HB	1.99	0.45
1:c:290:VAL:O	1:c:302:LYS:NZ	2.46	0.45
1:o:373:ILE:HD11	1:o:460:VAL:HG11	1.98	0.45
1:A:301:ARG:O	1:A:305:LEU:HB2	2.16	0.45
1:B:146:THR:HG22	1:B:147:ALA:H	1.80	0.45
1:B:301:ARG:O	1:B:305:LEU:HB2	2.16	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:450:SER:OG	1:I:459:ARG:O	2.29	0.45
1:J:122:HIS:NE2	1:J:259:ALA:O	2.49	0.45
1:K:122:HIS:NE2	1:K:259:ALA:O	2.49	0.45
1:M:447:TYR:HB3	1:M:479:PHE:CZ	2.52	0.45
1:R:301:ARG:O	1:R:305:LEU:HB2	2.16	0.45
1:h:301:ARG:O	1:h:305:LEU:HB2	2.16	0.45
1:k:146:THR:HG22	1:k:147:ALA:H	1.80	0.45
1:o:122:HIS:NE2	1:o:259:ALA:O	2.49	0.45
1:p:122:HIS:NE2	1:p:259:ALA:O	2.49	0.45
1:q:301:ARG:O	1:q:305:LEU:HB2	2.16	0.45
1:q:447:TYR:HB3	1:q:479:PHE:CZ	2.52	0.45
1:r:373:ILE:HD11	1:r:460:VAL:HG11	1.97	0.45
1:B:63:ILE:HA	1:B:82:ILE:O	2.16	0.45
1:C:192:ILE:HB	1:D:48:SER:HB3	1.99	0.45
1:H:358:GLN:NE2	1:H:377:LYS:HA	2.32	0.45
1:I:122:HIS:NE2	1:I:259:ALA:O	2.49	0.45
1:I:373:ILE:HD11	1:I:460:VAL:HG11	1.98	0.45
1:O:447:TYR:HB3	1:O:479:PHE:CZ	2.52	0.45
1:R:300:GLU:O	1:R:304:GLN:NE2	2.45	0.45
1:a:48:SER:HB3	1:b:192:ILE:HB	1.98	0.45
1:a:146:THR:HG22	1:a:147:ALA:H	1.80	0.45
1:a:290:VAL:O	1:a:302:LYS:NZ	2.46	0.45
1:a:301:ARG:O	1:a:305:LEU:HB2	2.16	0.45
1:c:373:ILE:HD11	1:c:460:VAL:HG11	1.98	0.45
1:d:63:ILE:HA	1:d:82:ILE:O	2.16	0.45
1:i:48:SER:HB3	1:m:192:ILE:HB	1.98	0.45
1:k:301:ARG:O	1:k:305:LEU:HB2	2.16	0.45
1:q:122:HIS:NE2	1:q:259:ALA:O	2.49	0.45
1:A:447:TYR:HB3	1:A:479:PHE:CZ	2.52	0.45
1:D:403:PHE:HB3	1:D:429:LEU:HD12	1.99	0.45
1:G:301:ARG:O	1:G:305:LEU:HB2	2.16	0.45
1:G:447:TYR:HB3	1:G:479:PHE:CZ	2.52	0.45
1:J:358:GLN:NE2	1:J:377:LYS:HA	2.32	0.45
1:Q:301:ARG:O	1:Q:305:LEU:HB2	2.16	0.45
1:Q:447:TYR:HB3	1:Q:479:PHE:CZ	2.52	0.45
1:a:63:ILE:HA	1:a:82:ILE:O	2.16	0.45
1:b:63:ILE:HA	1:b:82:ILE:O	2.16	0.45
1:c:358:GLN:NE2	1:c:377:LYS:HA	2.32	0.45
1:h:450:SER:OG	1:h:459:ARG:O	2.29	0.45
1:j:401:VAL:O	1:j:401:VAL:HG12	2.16	0.45
1:p:301:ARG:O	1:p:305:LEU:HB2	2.16	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:122:HIS:NE2	1:H:259:ALA:O	2.49	0.45
1:J:373:ILE:HD11	1:J:460:VAL:HG11	1.97	0.45
1:L:51:ILE:HB	1:L:94:THR:HB	1.98	0.45
1:b:447:TYR:HB3	1:b:479:PHE:CZ	2.52	0.45
1:h:447:TYR:HB3	1:h:479:PHE:CZ	2.52	0.45
1:l:51:ILE:HB	1:l:94:THR:HB	1.98	0.45
1:m:447:TYR:HB3	1:m:479:PHE:CZ	2.52	0.45
1:p:447:TYR:HB3	1:p:479:PHE:CZ	2.52	0.45
1:r:122:HIS:NE2	1:r:259:ALA:O	2.49	0.45
1:r:450:SER:OG	1:r:459:ARG:O	2.29	0.45
1:A:63:ILE:HA	1:A:82:ILE:O	2.16	0.44
1:C:401:VAL:HG12	1:C:401:VAL:O	2.16	0.44
1:F:51:ILE:HB	1:F:94:THR:HB	1.98	0.44
1:F:401:VAL:O	1:F:401:VAL:HG12	2.16	0.44
1:I:51:ILE:HB	1:I:94:THR:HB	1.98	0.44
1:J:401:VAL:O	1:J:401:VAL:HG12	2.16	0.44
1:Q:192:ILE:HB	1:R:48:SER:HB3	1.99	0.44
1:d:146:THR:HG22	1:d:147:ALA:H	1.80	0.44
1:g:401:VAL:O	1:g:401:VAL:HG12	2.16	0.44
1:m:51:ILE:HB	1:m:94:THR:HB	1.98	0.44
1:q:373:ILE:HD11	1:q:460:VAL:HG11	1.97	0.44
1:q:401:VAL:O	1:q:401:VAL:HG12	2.16	0.44
1:r:447:TYR:HB3	1:r:479:PHE:CZ	2.52	0.44
1:C:358:GLN:NE2	1:C:377:LYS:HA	2.32	0.44
1:E:447:TYR:HB3	1:E:479:PHE:CZ	2.52	0.44
1:H:405:LYS:HB3	1:H:427:LYS:HB3	1.99	0.44
1:M:401:VAL:O	1:M:401:VAL:HG12	2.16	0.44
1:P:122:HIS:NE2	1:P:259:ALA:O	2.49	0.44
1:P:447:TYR:HB3	1:P:479:PHE:CZ	2.52	0.44
1:Q:63:ILE:HA	1:Q:82:ILE:O	2.16	0.44
1:b:401:VAL:O	1:b:401:VAL:HG12	2.16	0.44
1:c:122:HIS:NE2	1:c:259:ALA:O	2.49	0.44
1:e:358:GLN:NE2	1:e:377:LYS:HA	2.32	0.44
1:n:87:GLU:OE1	1:n:88:PHE:N	2.51	0.44
1:p:63:ILE:HA	1:p:82:ILE:O	2.16	0.44
1:q:358:GLN:NE2	1:q:377:LYS:HA	2.32	0.44
1:r:51:ILE:HB	1:r:94:THR:HB	1.98	0.44
1:A:116:ILE:HG22	1:A:117:GLN:H	1.82	0.44
1:A:401:VAL:O	1:A:401:VAL:HG12	2.16	0.44
1:G:122:HIS:NE2	1:G:259:ALA:O	2.49	0.44
1:I:447:TYR:HB3	1:I:479:PHE:CZ	2.52	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:288:LYS:HD3	1:K:271:TRP:CD2	2.53	0.44
1:M:87:GLU:OE1	1:M:88:PHE:N	2.51	0.44
1:N:87:GLU:OE1	1:N:88:PHE:N	2.51	0.44
1:R:155:GLU:HG2	1:R:156:LEU:N	2.33	0.44
1:e:401:VAL:O	1:e:401:VAL:HG12	2.16	0.44
1:f:447:TYR:HB3	1:f:479:PHE:CZ	2.52	0.44
1:i:122:HIS:NE2	1:i:259:ALA:O	2.49	0.44
1:k:300:GLU:O	1:k:304:GLN:NE2	2.45	0.44
1:A:48:SER:HB3	1:R:192:ILE:HB	1.99	0.44
1:G:290:VAL:O	1:G:302:LYS:NZ	2.46	0.44
1:I:87:GLU:OE1	1:I:88:PHE:N	2.51	0.44
1:J:51:ILE:HB	1:J:94:THR:HB	1.98	0.44
1:L:87:GLU:OE1	1:L:88:PHE:N	2.51	0.44
1:L:358:GLN:NE2	1:L:377:LYS:HA	2.32	0.44
1:O:51:ILE:HB	1:O:94:THR:HB	1.98	0.44
1:Q:155:GLU:HG2	1:Q:156:LEU:N	2.33	0.44
1:a:447:TYR:HB3	1:a:479:PHE:CZ	2.52	0.44
1:b:155:GLU:HG2	1:b:156:LEU:N	2.33	0.44
1:b:271:TRP:CD2	1:k:288:LYS:HD3	2.53	0.44
1:g:51:ILE:HB	1:g:94:THR:HB	1.98	0.44
1:i:447:TYR:HB3	1:i:479:PHE:CZ	2.52	0.44
1:j:87:GLU:OE1	1:j:88:PHE:N	2.51	0.44
1:l:87:GLU:OE1	1:l:88:PHE:N	2.51	0.44
1:m:87:GLU:OE1	1:m:88:PHE:N	2.51	0.44
1:p:155:GLU:HG2	1:p:156:LEU:N	2.33	0.44
1:q:51:ILE:HB	1:q:94:THR:HB	1.98	0.44
1:A:155:GLU:HG2	1:A:156:LEU:N	2.33	0.44
1:D:146:THR:HG22	1:D:147:ALA:H	1.80	0.44
1:H:87:GLU:OE1	1:H:88:PHE:N	2.51	0.44
1:J:87:GLU:OE1	1:J:88:PHE:N	2.51	0.44
1:O:87:GLU:OE1	1:O:88:PHE:N	2.51	0.44
1:O:401:VAL:O	1:O:401:VAL:HG12	2.16	0.44
1:R:362:ILE:O	1:R:365:THR:OG1	2.31	0.44
1:c:87:GLU:OE1	1:c:88:PHE:N	2.51	0.44
1:g:405:LYS:HB3	1:g:427:LYS:HB3	1.99	0.44
1:h:122:HIS:NE2	1:h:259:ALA:O	2.49	0.44
1:h:290:VAL:O	1:h:302:LYS:NZ	2.46	0.44
1:i:155:GLU:HG2	1:i:156:LEU:N	2.33	0.44
1:k:155:GLU:HG2	1:k:156:LEU:N	2.33	0.44
1:o:51:ILE:HB	1:o:94:THR:HB	1.98	0.44
1:r:87:GLU:OE1	1:r:88:PHE:N	2.51	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:155:GLU:HG2	1:B:156:LEU:N	2.33	0.44
1:B:447:TYR:HB3	1:B:479:PHE:CZ	2.52	0.44
1:J:290:VAL:O	1:J:302:LYS:NZ	2.46	0.44
1:K:51:ILE:HB	1:K:94:THR:HB	1.98	0.44
1:O:231:ASP:O	1:O:234:SER:OG	2.29	0.44
1:a:155:GLU:HG2	1:a:156:LEU:N	2.33	0.44
1:k:362:ILE:O	1:k:365:THR:OG1	2.31	0.44
1:m:401:VAL:O	1:m:401:VAL:HG12	2.16	0.44
1:o:87:GLU:OE1	1:o:88:PHE:N	2.51	0.44
1:q:87:GLU:OE1	1:q:88:PHE:N	2.51	0.44
1:C:155:GLU:HG2	1:C:156:LEU:N	2.33	0.44
1:D:290:VAL:O	1:D:302:LYS:NZ	2.46	0.44
1:F:122:HIS:NE2	1:F:259:ALA:O	2.49	0.44
1:K:87:GLU:OE1	1:K:88:PHE:N	2.51	0.44
1:L:447:TYR:HB3	1:L:479:PHE:CZ	2.52	0.44
1:M:51:ILE:HB	1:M:94:THR:HB	1.98	0.44
1:P:87:GLU:OE1	1:P:88:PHE:N	2.51	0.44
1:P:155:GLU:HG2	1:P:156:LEU:N	2.33	0.44
1:b:403:PHE:HB3	1:b:429:LEU:HD12	2.00	0.44
1:h:87:GLU:OE1	1:h:88:PHE:N	2.51	0.44
1:i:87:GLU:OE1	1:i:88:PHE:N	2.51	0.44
1:l:447:TYR:HB3	1:l:479:PHE:CZ	2.52	0.44
1:A:271:TRP:CD2	1:R:288:LYS:HD3	2.53	0.44
1:E:358:GLN:NE2	1:E:377:LYS:HA	2.32	0.44
1:G:87:GLU:OE1	1:G:88:PHE:N	2.51	0.44
1:N:401:VAL:O	1:N:401:VAL:HG12	2.16	0.44
1:O:290:VAL:O	1:O:302:LYS:NZ	2.46	0.44
1:e:155:GLU:HG2	1:e:156:LEU:N	2.33	0.44
1:l:358:GLN:NE2	1:l:377:LYS:HA	2.32	0.44
1:n:401:VAL:HG12	1:n:401:VAL:O	2.16	0.44
1:q:290:VAL:O	1:q:302:LYS:NZ	2.46	0.44
1:B:401:VAL:O	1:B:401:VAL:HG12	2.16	0.44
1:D:155:GLU:HG2	1:D:156:LEU:N	2.33	0.44
1:D:288:LYS:HD3	1:E:271:TRP:CD2	2.53	0.44
1:F:288:LYS:HD3	1:G:271:TRP:CD2	2.53	0.44
1:H:51:ILE:HB	1:H:94:THR:HB	1.98	0.44
1:f:358:GLN:NE2	1:f:377:LYS:HA	2.32	0.44
1:j:51:ILE:HB	1:j:94:THR:HB	1.98	0.44
1:m:155:GLU:HG2	1:m:156:LEU:N	2.33	0.44
1:F:87:GLU:OE1	1:F:88:PHE:N	2.51	0.43
1:O:122:HIS:NE2	1:O:259:ALA:O	2.49	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:O:155:GLU:HG2	1:O:156:LEU:N	2.33	0.43
1:a:401:VAL:O	1:a:401:VAL:HG12	2.16	0.43
1:d:290:VAL:O	1:d:302:LYS:NZ	2.46	0.43
1:g:87:GLU:OE1	1:g:88:PHE:N	2.51	0.43
1:g:122:HIS:NE2	1:g:259:ALA:O	2.49	0.43
1:g:447:TYR:HB2	1:g:479:PHE:CZ	2.53	0.43
1:k:446:MET:HE1	1:k:478:TRP:CD1	2.53	0.43
1:m:231:ASP:O	1:m:234:SER:OG	2.29	0.43
1:D:405:LYS:HB3	1:D:427:LYS:HB3	1.99	0.43
1:E:155:GLU:HG2	1:E:156:LEU:N	2.33	0.43
1:F:155:GLU:HG2	1:F:156:LEU:N	2.33	0.43
1:F:447:TYR:HB2	1:F:479:PHE:CZ	2.54	0.43
1:H:447:TYR:HB2	1:H:479:PHE:CZ	2.53	0.43
1:N:358:GLN:NE2	1:N:377:LYS:HA	2.32	0.43
1:R:446:MET:HE1	1:R:478:TRP:CD1	2.54	0.43
1:a:447:TYR:CB	1:a:479:PHE:CE1	2.96	0.43
1:d:155:GLU:HG2	1:d:156:LEU:N	2.33	0.43
1:j:271:TRP:CD2	1:l:288:LYS:HD3	2.53	0.43
1:k:447:TYR:HD2	1:k:479:PHE:CE1	2.37	0.43
1:m:271:TRP:CD2	1:n:288:LYS:HD3	2.53	0.43
1:p:87:GLU:OE1	1:p:88:PHE:N	2.51	0.43
1:B:117:GLN:HE22	1:k:115:LYS:HD3	1.83	0.43
1:C:446:MET:HE1	1:C:478:TRP:CD1	2.54	0.43
1:F:447:TYR:CD2	1:F:479:PHE:CE1	3.07	0.43
1:G:358:GLN:NE2	1:G:377:LYS:HA	2.32	0.43
1:N:288:LYS:HD3	1:O:271:TRP:CD2	2.54	0.43
1:Q:87:GLU:OE1	1:Q:88:PHE:N	2.51	0.43
1:Q:447:TYR:HD2	1:Q:479:PHE:CE1	2.37	0.43
1:R:447:TYR:HD2	1:R:479:PHE:CE1	2.37	0.43
1:c:51:ILE:HB	1:c:94:THR:HB	1.98	0.43
1:c:447:TYR:HB2	1:c:479:PHE:CZ	2.54	0.43
1:e:446:MET:HE1	1:e:478:TRP:CD1	2.54	0.43
1:f:155:GLU:HG2	1:f:156:LEU:N	2.33	0.43
1:g:447:TYR:CD2	1:g:479:PHE:CE1	3.07	0.43
1:m:122:HIS:NE2	1:m:259:ALA:O	2.49	0.43
1:m:290:VAL:O	1:m:302:LYS:NZ	2.46	0.43
1:n:155:GLU:HG2	1:n:156:LEU:N	2.33	0.43
1:o:271:TRP:CD2	1:q:288:LYS:HD3	2.54	0.43
1:C:447:TYR:CD2	1:C:479:PHE:CE1	3.07	0.43
1:C:447:TYR:HD2	1:C:479:PHE:CE1	2.37	0.43
1:D:447:TYR:HB2	1:D:479:PHE:CZ	2.54	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:87:GLU:OE1	1:E:88:PHE:N	2.51	0.43
1:F:446:MET:HE1	1:F:478:TRP:CD1	2.54	0.43
1:G:155:GLU:HG2	1:G:156:LEU:N	2.33	0.43
1:I:447:TYR:HD2	1:I:479:PHE:CE1	2.37	0.43
1:J:447:TYR:HB2	1:J:479:PHE:CZ	2.54	0.43
1:J:447:TYR:HD2	1:J:479:PHE:CE1	2.37	0.43
1:K:356:HIS:NE2	1:K:375:THR:O	2.52	0.43
1:L:356:HIS:NE2	1:L:375:THR:O	2.52	0.43
1:N:155:GLU:HG2	1:N:156:LEU:N	2.33	0.43
1:P:405:LYS:HB3	1:P:427:LYS:HB3	1.99	0.43
1:R:87:GLU:OE1	1:R:88:PHE:N	2.51	0.43
1:b:362:ILE:O	1:b:365:THR:OG1	2.31	0.43
1:c:446:MET:HE1	1:c:478:TRP:CD1	2.54	0.43
1:d:447:TYR:HB2	1:d:479:PHE:CZ	2.54	0.43
1:e:447:TYR:CD2	1:e:479:PHE:CE1	3.07	0.43
1:e:447:TYR:HD2	1:e:479:PHE:CE1	2.37	0.43
1:f:87:GLU:OE1	1:f:88:PHE:N	2.51	0.43
1:g:155:GLU:HG2	1:g:156:LEU:N	2.33	0.43
1:h:155:GLU:HG2	1:h:156:LEU:N	2.33	0.43
1:i:288:LYS:HD3	1:p:271:TRP:CD2	2.54	0.43
1:i:405:LYS:HB3	1:i:427:LYS:HB3	1.99	0.43
1:k:87:GLU:OE1	1:k:88:PHE:N	2.51	0.43
1:l:356:HIS:NE2	1:l:375:THR:O	2.52	0.43
1:l:447:TYR:HD2	1:l:479:PHE:CE1	2.37	0.43
1:n:358:GLN:NE2	1:n:377:LYS:HA	2.32	0.43
1:o:447:TYR:HB2	1:o:479:PHE:CZ	2.53	0.43
1:p:403:PHE:HB3	1:p:429:LEU:HD12	2.00	0.43
1:p:447:TYR:HD2	1:p:479:PHE:CE1	2.37	0.43
1:q:356:HIS:NE2	1:q:375:THR:O	2.52	0.43
1:r:447:TYR:HD2	1:r:479:PHE:CE1	2.37	0.43
1:B:288:LYS:HD3	1:C:271:TRP:CD2	2.54	0.43
1:D:87:GLU:OE1	1:D:88:PHE:N	2.51	0.43
1:D:187:ASN:HA	1:E:52:GLU:HB3	2.01	0.43
1:E:122:HIS:NE2	1:E:259:ALA:O	2.49	0.43
1:E:356:HIS:NE2	1:E:375:THR:O	2.52	0.43
1:F:356:HIS:NE2	1:F:375:THR:O	2.52	0.43
1:F:447:TYR:HD2	1:F:479:PHE:CE1	2.37	0.43
1:G:356:HIS:NE2	1:G:375:THR:O	2.52	0.43
1:H:155:GLU:HG2	1:H:156:LEU:N	2.33	0.43
1:H:446:MET:HE1	1:H:478:TRP:CD1	2.54	0.43
1:J:187:ASN:HA	1:K:52:GLU:HB3	2.01	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:356:HIS:NE2	1:J:375:THR:O	2.52	0.43
1:K:447:TYR:HB2	1:K:479:PHE:CZ	2.54	0.43
1:L:447:TYR:HD2	1:L:479:PHE:CE1	2.37	0.43
1:M:447:TYR:HD2	1:M:479:PHE:CE1	2.37	0.43
1:O:447:TYR:HD2	1:O:479:PHE:CE1	2.37	0.43
1:a:87:GLU:OE1	1:a:88:PHE:N	2.51	0.43
1:e:87:GLU:OE1	1:e:88:PHE:N	2.51	0.43
1:f:288:LYS:HD3	1:g:271:TRP:CD2	2.54	0.43
1:g:403:PHE:HB3	1:g:429:LEU:HD12	2.00	0.43
1:g:446:MET:HE1	1:g:478:TRP:CD1	2.54	0.43
1:g:447:TYR:HD2	1:g:479:PHE:CE1	2.37	0.43
1:h:356:HIS:NE2	1:h:375:THR:O	2.52	0.43
1:i:447:TYR:HD2	1:i:479:PHE:CE1	2.37	0.43
1:j:155:GLU:HG2	1:j:156:LEU:N	2.33	0.43
1:j:447:TYR:HD2	1:j:479:PHE:CE1	2.37	0.43
1:m:447:TYR:HD2	1:m:479:PHE:CE1	2.37	0.43
1:o:356:HIS:NE2	1:o:375:THR:O	2.52	0.43
1:q:447:TYR:HD2	1:q:479:PHE:CE1	2.37	0.43
1:r:356:HIS:NE2	1:r:375:THR:O	2.52	0.43
1:A:87:GLU:OE1	1:A:88:PHE:N	2.51	0.43
1:A:362:ILE:O	1:A:365:THR:OG1	2.31	0.43
1:C:87:GLU:OE1	1:C:88:PHE:N	2.51	0.43
1:G:447:TYR:CD2	1:G:479:PHE:CE1	3.07	0.43
1:I:356:HIS:NE2	1:I:375:THR:O	2.52	0.43
1:K:405:LYS:HB3	1:K:427:LYS:HB3	2.00	0.43
1:M:155:GLU:HG2	1:M:156:LEU:N	2.33	0.43
1:M:356:HIS:NE2	1:M:375:THR:O	2.52	0.43
1:P:403:PHE:HB3	1:P:429:LEU:HD12	2.00	0.43
1:Q:403:PHE:HB3	1:Q:429:LEU:HD12	2.00	0.43
1:b:87:GLU:OE1	1:b:88:PHE:N	2.51	0.43
1:c:356:HIS:NE2	1:c:375:THR:O	2.52	0.43
1:d:87:GLU:OE1	1:d:88:PHE:N	2.51	0.43
1:d:403:PHE:HB2	1:d:429:LEU:HB2	2.00	0.43
1:f:122:HIS:NE2	1:f:259:ALA:O	2.49	0.43
1:f:187:ASN:HA	1:g:52:GLU:HB3	2.01	0.43
1:f:403:PHE:HB3	1:f:429:LEU:HD12	2.01	0.43
1:g:356:HIS:NE2	1:g:375:THR:O	2.52	0.43
1:i:403:PHE:HB3	1:i:429:LEU:HD12	2.00	0.43
1:j:447:TYR:HB2	1:j:479:PHE:CZ	2.53	0.43
1:l:155:GLU:HG2	1:l:156:LEU:N	2.33	0.43
1:l:403:PHE:HB3	1:l:429:LEU:HD12	1.99	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:l:405:LYS:HB3	1:l:427:LYS:HB3	1.99	0.43
1:q:447:TYR:HB2	1:q:479:PHE:CZ	2.54	0.43
1:r:447:TYR:HB2	1:r:479:PHE:CZ	2.54	0.43
1:B:87:GLU:OE1	1:B:88:PHE:N	2.51	0.43
1:D:356:HIS:NE2	1:D:375:THR:O	2.52	0.43
1:D:447:TYR:CD2	1:D:479:PHE:CE1	3.07	0.43
1:G:447:TYR:HD2	1:G:479:PHE:CE1	2.37	0.43
1:H:187:ASN:HA	1:I:52:GLU:HB3	2.01	0.43
1:H:356:HIS:NE2	1:H:375:THR:O	2.52	0.43
1:I:155:GLU:HG2	1:I:156:LEU:N	2.33	0.43
1:I:447:TYR:HB2	1:I:479:PHE:CZ	2.54	0.43
1:I:447:TYR:CD2	1:I:479:PHE:CE1	3.07	0.43
1:L:277:PHE:HA	1:L:316:ILE:HD11	2.01	0.43
1:M:447:TYR:HB2	1:M:479:PHE:CZ	2.54	0.43
1:N:447:TYR:CD2	1:N:479:PHE:CE1	3.07	0.43
1:P:447:TYR:HD2	1:P:479:PHE:CE1	2.37	0.43
1:b:405:LYS:HB3	1:b:427:LYS:HB3	2.00	0.43
1:d:271:TRP:CD2	1:e:288:LYS:HD3	2.54	0.43
1:d:288:LYS:HD3	1:f:271:TRP:CD2	2.54	0.43
1:d:447:TYR:CD2	1:d:479:PHE:CE1	3.07	0.43
1:f:356:HIS:NE2	1:f:375:THR:O	2.52	0.43
1:f:446:MET:HE1	1:f:478:TRP:CD1	2.54	0.43
1:h:358:GLN:NE2	1:h:377:LYS:HA	2.32	0.43
1:h:447:TYR:CD2	1:h:479:PHE:CE1	3.07	0.43
1:j:52:GLU:HB3	1:l:187:ASN:HA	2.01	0.43
1:j:356:HIS:NE2	1:j:375:THR:O	2.52	0.43
1:n:356:HIS:NE2	1:n:375:THR:O	2.52	0.43
1:n:447:TYR:CD2	1:n:479:PHE:CE1	3.07	0.43
1:o:155:GLU:HG2	1:o:156:LEU:N	2.33	0.43
1:r:447:TYR:CD2	1:r:479:PHE:CE1	3.07	0.43
1:A:288:LYS:HD3	1:B:271:TRP:CD2	2.54	0.43
1:A:447:TYR:HD2	1:A:479:PHE:CE1	2.37	0.43
1:H:447:TYR:HD2	1:H:479:PHE:CE1	2.37	0.43
1:I:405:LYS:HB3	1:I:427:LYS:HB3	2.00	0.43
1:L:155:GLU:HG2	1:L:156:LEU:N	2.33	0.43
1:L:447:TYR:HB2	1:L:479:PHE:CZ	2.53	0.43
1:M:447:TYR:CD2	1:M:479:PHE:CE1	3.07	0.43
1:N:356:HIS:NE2	1:N:375:THR:O	2.52	0.43
1:Q:141:ALA:HA	1:Q:193:THR:O	2.19	0.43
1:R:141:ALA:HA	1:R:193:THR:O	2.19	0.43
1:b:141:ALA:HA	1:b:193:THR:O	2.19	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:c:155:GLU:HG2	1:c:156:LEU:N	2.33	0.43
1:c:288:LYS:HD3	1:r:271:TRP:CD2	2.53	0.43
1:d:356:HIS:NE2	1:d:375:THR:O	2.52	0.43
1:f:447:TYR:CD2	1:f:479:PHE:CE1	3.07	0.43
1:h:447:TYR:HB2	1:h:479:PHE:CZ	2.54	0.43
1:h:447:TYR:HD2	1:h:479:PHE:CE1	2.37	0.43
1:i:447:TYR:CD2	1:i:479:PHE:CE1	3.07	0.43
1:k:141:ALA:HA	1:k:193:THR:O	2.19	0.43
1:l:277:PHE:HA	1:l:316:ILE:HD11	2.01	0.43
1:m:446:MET:HE1	1:m:478:TRP:CD1	2.54	0.43
1:p:141:ALA:HA	1:p:193:THR:O	2.19	0.43
1:p:405:LYS:HB3	1:p:427:LYS:HB3	2.00	0.43
1:A:141:ALA:HA	1:A:193:THR:O	2.19	0.43
1:B:277:PHE:HA	1:B:316:ILE:HD11	2.01	0.43
1:D:141:ALA:HA	1:D:193:THR:O	2.19	0.43
1:D:447:TYR:HD2	1:D:479:PHE:CE1	2.37	0.43
1:E:446:MET:HE1	1:E:478:TRP:CD1	2.54	0.43
1:E:447:TYR:CD2	1:E:479:PHE:CE1	3.07	0.43
1:G:447:TYR:HB2	1:G:479:PHE:CZ	2.54	0.43
1:J:277:PHE:HA	1:J:316:ILE:HD11	2.01	0.43
1:O:187:ASN:HA	1:P:52:GLU:HB3	2.01	0.43
1:O:288:LYS:HD3	1:P:271:TRP:CD2	2.54	0.43
1:O:356:HIS:NE2	1:O:375:THR:O	2.52	0.43
1:O:447:TYR:CD2	1:O:479:PHE:CE1	3.07	0.43
1:P:356:HIS:NE2	1:P:375:THR:O	2.52	0.43
1:P:447:TYR:CD2	1:P:479:PHE:CE1	3.07	0.43
1:a:446:MET:HE1	1:a:478:TRP:CD1	2.54	0.43
1:a:447:TYR:HD2	1:a:479:PHE:CE1	2.37	0.43
1:d:141:ALA:HA	1:d:193:THR:O	2.19	0.43
1:g:288:LYS:HD3	1:h:271:TRP:CD2	2.54	0.43
1:j:447:TYR:CD2	1:j:479:PHE:CE1	3.07	0.43
1:l:447:TYR:HB2	1:l:479:PHE:CZ	2.53	0.43
1:m:356:HIS:NE2	1:m:375:THR:O	2.52	0.43
1:p:356:HIS:NE2	1:p:375:THR:O	2.52	0.43
1:q:271:TRP:CD2	1:r:288:LYS:HD3	2.54	0.43
1:B:141:ALA:HA	1:B:193:THR:O	2.19	0.43
1:B:446:MET:HE1	1:B:478:TRP:CD1	2.54	0.43
1:B:447:TYR:CD2	1:B:479:PHE:CE1	3.07	0.43
1:B:447:TYR:HD2	1:B:479:PHE:CE1	2.37	0.43
1:C:450:SER:OG	1:C:459:ARG:O	2.29	0.43
1:G:288:LYS:HD3	1:H:271:TRP:CD2	2.54	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:155:GLU:HG2	1:K:156:LEU:N	2.33	0.43
1:K:290:VAL:O	1:K:302:LYS:NZ	2.46	0.43
1:K:403:PHE:HB3	1:K:429:LEU:HD12	2.00	0.43
1:O:446:MET:HE1	1:O:478:TRP:CD1	2.54	0.43
1:P:141:ALA:HA	1:P:193:THR:O	2.19	0.43
1:P:288:LYS:HD3	1:Q:271:TRP:CD2	2.54	0.43
1:Q:290:VAL:O	1:Q:302:LYS:NZ	2.46	0.43
1:Q:356:HIS:NE2	1:Q:375:THR:O	2.52	0.43
1:a:277:PHE:HA	1:a:316:ILE:HD11	2.01	0.43
1:a:288:LYS:HD3	1:e:271:TRP:CD2	2.54	0.43
1:a:447:TYR:CD2	1:a:479:PHE:CE1	3.07	0.43
1:b:447:TYR:HD2	1:b:479:PHE:CE1	2.37	0.43
1:c:447:TYR:HD2	1:c:479:PHE:CE1	2.37	0.43
1:d:447:TYR:HD2	1:d:479:PHE:CE1	2.37	0.43
1:i:356:HIS:NE2	1:i:375:THR:O	2.52	0.43
1:k:277:PHE:HA	1:k:316:ILE:HD11	2.01	0.43
1:m:447:TYR:CD2	1:m:479:PHE:CE1	3.07	0.43
1:q:52:GLU:HB3	1:r:187:ASN:HA	2.01	0.43
1:q:155:GLU:HG2	1:q:156:LEU:N	2.33	0.43
1:q:277:PHE:HA	1:q:316:ILE:HD11	2.01	0.43
1:q:446:MET:HE1	1:q:478:TRP:CD1	2.54	0.43
1:r:277:PHE:HA	1:r:316:ILE:HD11	2.01	0.43
1:B:362:ILE:O	1:B:365:THR:OG1	2.31	0.42
1:C:356:HIS:NE2	1:C:375:THR:O	2.52	0.42
1:C:362:ILE:O	1:C:365:THR:OG1	2.31	0.42
1:D:446:MET:HE1	1:D:478:TRP:CD1	2.54	0.42
1:E:288:LYS:HD3	1:F:271:TRP:CD2	2.54	0.42
1:E:403:PHE:HB2	1:E:429:LEU:HB2	2.01	0.42
1:H:447:TYR:CD2	1:H:479:PHE:CE1	3.07	0.42
1:I:277:PHE:HA	1:I:316:ILE:HD11	2.01	0.42
1:K:288:LYS:HD3	1:L:271:TRP:CD2	2.54	0.42
1:M:187:ASN:HA	1:N:52:GLU:HB3	2.01	0.42
1:M:288:LYS:HD3	1:N:271:TRP:CD2	2.54	0.42
1:N:122:HIS:NE2	1:N:259:ALA:O	2.49	0.42
1:N:447:TYR:HD2	1:N:479:PHE:CE1	2.37	0.42
1:P:358:GLN:NE2	1:P:377:LYS:HA	2.32	0.42
1:P:362:ILE:O	1:P:365:THR:OG1	2.31	0.42
1:R:277:PHE:HA	1:R:316:ILE:HD11	2.01	0.42
1:R:356:HIS:NE2	1:R:375:THR:O	2.52	0.42
1:a:141:ALA:HA	1:a:193:THR:O	2.19	0.42
1:c:447:TYR:CD2	1:c:479:PHE:CE1	3.07	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:h:403:PHE:HB3	1:h:429:LEU:HD12	2.00	0.42
1:k:356:HIS:NE2	1:k:375:THR:O	2.52	0.42
1:o:52:GLU:HB3	1:q:187:ASN:HA	2.01	0.42
1:r:155:GLU:HG2	1:r:156:LEU:N	2.33	0.42
1:A:356:HIS:NE2	1:A:375:THR:O	2.52	0.42
1:A:403:PHE:HB2	1:A:429:LEU:HB2	2.01	0.42
1:I:358:GLN:NE2	1:I:377:LYS:HA	2.32	0.42
1:J:155:GLU:HG2	1:J:156:LEU:N	2.33	0.42
1:J:446:MET:HE1	1:J:478:TRP:CD1	2.54	0.42
1:J:447:TYR:CD2	1:J:479:PHE:CE1	3.07	0.42
1:L:447:TYR:CD2	1:L:479:PHE:CE1	3.07	0.42
1:a:403:PHE:HB2	1:a:429:LEU:HB2	2.01	0.42
1:d:446:MET:HE1	1:d:478:TRP:CD1	2.54	0.42
1:e:356:HIS:NE2	1:e:375:THR:O	2.52	0.42
1:e:362:ILE:O	1:e:365:THR:OG1	2.31	0.42
1:f:447:TYR:HB2	1:f:479:PHE:CZ	2.54	0.42
1:i:141:ALA:HA	1:i:193:THR:O	2.19	0.42
1:k:358:GLN:NE2	1:k:377:LYS:HA	2.32	0.42
1:k:447:TYR:CD2	1:k:479:PHE:CE1	3.07	0.42
1:l:447:TYR:CD2	1:l:479:PHE:CE1	3.07	0.42
1:o:290:VAL:O	1:o:302:LYS:NZ	2.46	0.42
1:q:447:TYR:CD2	1:q:479:PHE:CE1	3.07	0.42
1:A:447:TYR:CD2	1:A:479:PHE:CE1	3.07	0.42
1:B:403:PHE:HB2	1:B:429:LEU:HB2	2.01	0.42
1:D:122:HIS:NE2	1:D:259:ALA:O	2.49	0.42
1:E:447:TYR:HB2	1:E:479:PHE:CZ	2.54	0.42
1:G:446:MET:HE1	1:G:478:TRP:CD1	2.54	0.42
1:L:288:LYS:HD3	1:M:271:TRP:CD2	2.54	0.42
1:Q:447:TYR:CD2	1:Q:479:PHE:CE1	3.07	0.42
1:R:358:GLN:NE2	1:R:377:LYS:HA	2.32	0.42
1:R:447:TYR:CD2	1:R:479:PHE:CE1	3.07	0.42
1:a:362:ILE:O	1:a:365:THR:OG1	2.31	0.42
1:b:52:GLU:HB3	1:k:187:ASN:HA	2.01	0.42
1:b:356:HIS:NE2	1:b:375:THR:O	2.52	0.42
1:i:187:ASN:HA	1:p:52:GLU:HB3	2.01	0.42
1:j:288:LYS:HD3	1:n:271:TRP:CD2	2.54	0.42
1:m:52:GLU:HB3	1:n:187:ASN:HA	2.01	0.42
1:m:362:ILE:O	1:m:365:THR:OG1	2.31	0.42
1:n:122:HIS:NE2	1:n:259:ALA:O	2.49	0.42
1:n:447:TYR:HD2	1:n:479:PHE:CE1	2.37	0.42
1:p:447:TYR:CD2	1:p:479:PHE:CE1	3.07	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:284:GLU:OE1	1:D:284:GLU:O	2.38	0.42
1:F:187:ASN:HA	1:G:52:GLU:HB3	2.01	0.42
1:F:403:PHE:HB2	1:F:429:LEU:HB2	2.01	0.42
1:H:288:LYS:HD3	1:I:271:TRP:CD2	2.54	0.42
1:I:403:PHE:HB3	1:I:429:LEU:HD12	2.00	0.42
1:K:284:GLU:OE1	1:K:284:GLU:O	2.38	0.42
1:K:447:TYR:CD2	1:K:479:PHE:CE1	3.07	0.42
1:O:362:ILE:O	1:O:365:THR:OG1	2.31	0.42
1:a:271:TRP:CD2	1:b:288:LYS:HD3	2.54	0.42
1:b:447:TYR:CD2	1:b:479:PHE:CE1	3.07	0.42
1:c:187:ASN:HA	1:r:52:GLU:HB3	2.02	0.42
1:d:284:GLU:OE1	1:d:284:GLU:O	2.38	0.42
1:e:277:PHE:HA	1:e:316:ILE:HD11	2.01	0.42
1:f:447:TYR:HD2	1:f:479:PHE:CE1	2.37	0.42
1:h:446:MET:HE1	1:h:478:TRP:CD1	2.54	0.42
1:i:358:GLN:NE2	1:i:377:LYS:HA	2.32	0.42
1:i:362:ILE:O	1:i:365:THR:OG1	2.31	0.42
1:j:403:PHE:HB2	1:j:429:LEU:HB2	2.01	0.42
1:o:447:TYR:HD2	1:o:479:PHE:CE1	2.37	0.42
1:o:447:TYR:CD2	1:o:479:PHE:CE1	3.07	0.42
1:p:290:VAL:O	1:p:302:LYS:NZ	2.46	0.42
1:r:358:GLN:NE2	1:r:377:LYS:HA	2.32	0.42
1:C:277:PHE:HA	1:C:316:ILE:HD11	2.01	0.42
1:C:403:PHE:HB2	1:C:429:LEU:HB2	2.01	0.42
1:C:447:TYR:HB2	1:C:479:PHE:CZ	2.53	0.42
1:E:277:PHE:HA	1:E:316:ILE:HD11	2.01	0.42
1:E:447:TYR:HD2	1:E:479:PHE:CE1	2.37	0.42
1:G:277:PHE:HA	1:G:316:ILE:HD11	2.01	0.42
1:H:403:PHE:HB3	1:H:429:LEU:HD12	2.00	0.42
1:N:284:GLU:OE1	1:N:284:GLU:O	2.38	0.42
1:d:52:GLU:HB3	1:e:187:ASN:HA	2.01	0.42
1:e:450:SER:OG	1:e:459:ARG:O	2.29	0.42
1:f:277:PHE:HA	1:f:316:ILE:HD11	2.01	0.42
1:h:141:ALA:HA	1:h:193:THR:O	2.19	0.42
1:k:403:PHE:HB2	1:k:429:LEU:HB2	2.01	0.42
1:n:284:GLU:OE1	1:n:284:GLU:O	2.38	0.42
1:p:446:MET:HE1	1:p:478:TRP:CD1	2.54	0.42
1:A:284:GLU:OE1	1:A:284:GLU:O	2.38	0.42
1:B:356:HIS:NE2	1:B:375:THR:O	2.52	0.42
1:C:288:LYS:HD3	1:D:271:TRP:CD2	2.55	0.42
1:D:277:PHE:HA	1:D:316:ILE:HD11	2.01	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:290:VAL:O	1:F:302:LYS:NZ	2.46	0.42
1:G:284:GLU:O	1:G:284:GLU:OE1	2.38	0.42
1:G:403:PHE:HB2	1:G:429:LEU:HB2	2.01	0.42
1:K:447:TYR:HD2	1:K:479:PHE:CE1	2.37	0.42
1:N:141:ALA:HA	1:N:193:THR:O	2.19	0.42
1:O:141:ALA:HA	1:O:193:THR:O	2.19	0.42
1:Q:446:MET:HE1	1:Q:478:TRP:CD1	2.54	0.42
1:a:356:HIS:NE2	1:a:375:THR:O	2.52	0.42
1:b:284:GLU:O	1:b:284:GLU:OE1	2.38	0.42
1:d:277:PHE:HA	1:d:316:ILE:HD11	2.01	0.42
1:e:141:ALA:HA	1:e:193:THR:O	2.19	0.42
1:h:284:GLU:OE1	1:h:284:GLU:O	2.38	0.42
1:i:271:TRP:CD2	1:m:288:LYS:HD3	2.54	0.42
1:l:271:TRP:CD2	1:o:288:LYS:HD3	2.55	0.42
1:m:277:PHE:HA	1:m:316:ILE:HD11	2.01	0.42
1:o:284:GLU:OE1	1:o:284:GLU:O	2.38	0.42
1:C:141:ALA:HA	1:C:193:THR:O	2.19	0.42
1:F:141:ALA:HA	1:F:193:THR:O	2.19	0.42
1:I:288:LYS:HD3	1:J:271:TRP:CD2	2.54	0.42
1:L:187:ASN:HA	1:M:52:GLU:HB3	2.02	0.42
1:M:277:PHE:HA	1:M:316:ILE:HD11	2.01	0.42
1:O:277:PHE:HA	1:O:316:ILE:HD11	2.01	0.42
1:O:403:PHE:HB3	1:O:429:LEU:HD12	2.01	0.42
1:c:284:GLU:OE1	1:c:284:GLU:O	2.38	0.42
1:d:122:HIS:NE2	1:d:259:ALA:O	2.49	0.42
1:e:403:PHE:HB2	1:e:429:LEU:HB2	2.01	0.42
1:f:141:ALA:HA	1:f:193:THR:O	2.19	0.42
1:h:277:PHE:HA	1:h:316:ILE:HD11	2.01	0.42
1:m:141:ALA:HA	1:m:193:THR:O	2.19	0.42
1:m:403:PHE:HB2	1:m:429:LEU:HB2	2.01	0.42
1:n:141:ALA:HA	1:n:193:THR:O	2.19	0.42
1:r:403:PHE:HB2	1:r:429:LEU:HB2	2.01	0.42
1:G:141:ALA:HA	1:G:193:THR:O	2.19	0.42
1:H:284:GLU:OE1	1:H:284:GLU:O	2.38	0.42
1:L:284:GLU:OE1	1:L:284:GLU:O	2.38	0.42
1:N:362:ILE:O	1:N:365:THR:OG1	2.31	0.42
1:P:328:GLU:OE1	1:P:328:GLU:HA	2.20	0.42
1:Q:277:PHE:HA	1:Q:316:ILE:HD11	2.01	0.42
1:Q:284:GLU:OE1	1:Q:284:GLU:O	2.38	0.42
1:a:358:GLN:NE2	1:a:377:LYS:HA	2.32	0.42
1:g:141:ALA:HA	1:g:193:THR:O	2.19	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:i:328:GLU:OE1	1:i:328:GLU:HA	2.20	0.42
1:k:271:TRP:CD2	1:p:288:LYS:HD3	2.54	0.42
1:l:284:GLU:OE1	1:l:284:GLU:O	2.38	0.42
1:n:362:ILE:O	1:n:365:THR:OG1	2.31	0.42
1:A:187:ASN:HA	1:B:52:GLU:HB3	2.01	0.42
1:E:141:ALA:HA	1:E:193:THR:O	2.19	0.42
1:M:290:VAL:O	1:M:302:LYS:NZ	2.46	0.42
1:M:403:PHE:HB2	1:M:429:LEU:HB2	2.01	0.42
1:R:231:ASP:CG	1:R:236:LYS:NZ	2.78	0.42
1:a:284:GLU:OE1	1:a:284:GLU:O	2.38	0.42
1:c:231:ASP:CG	1:c:236:LYS:NZ	2.78	0.42
1:c:271:TRP:CD2	1:h:288:LYS:HD3	2.55	0.42
1:e:328:GLU:OE1	1:e:328:GLU:HA	2.20	0.42
1:j:277:PHE:HA	1:j:316:ILE:HD11	2.01	0.42
1:n:277:PHE:HA	1:n:316:ILE:HD11	2.00	0.42
1:o:403:PHE:HB2	1:o:429:LEU:HB2	2.01	0.42
1:p:277:PHE:HA	1:p:316:ILE:HD11	2.01	0.42
1:p:284:GLU:OE1	1:p:284:GLU:O	2.38	0.42
1:p:328:GLU:OE1	1:p:328:GLU:HA	2.20	0.42
1:C:284:GLU:OE1	1:C:284:GLU:O	2.38	0.42
1:C:328:GLU:OE1	1:C:328:GLU:HA	2.20	0.42
1:H:141:ALA:HA	1:H:193:THR:O	2.19	0.42
1:H:231:ASP:CG	1:H:236:LYS:NZ	2.78	0.42
1:J:231:ASP:CG	1:J:236:LYS:NZ	2.78	0.42
1:O:328:GLU:OE1	1:O:328:GLU:HA	2.20	0.42
1:P:277:PHE:HA	1:P:316:ILE:HD11	2.00	0.42
1:Q:328:GLU:OE1	1:Q:328:GLU:HA	2.20	0.42
1:b:231:ASP:CG	1:b:236:LYS:NZ	2.78	0.42
1:e:447:TYR:HB2	1:e:479:PHE:CZ	2.54	0.42
1:f:284:GLU:OE1	1:f:284:GLU:O	2.38	0.42
1:g:290:VAL:O	1:g:302:LYS:NZ	2.46	0.42
1:i:277:PHE:HA	1:i:316:ILE:HD11	2.01	0.42
1:k:231:ASP:CG	1:k:236:LYS:NZ	2.78	0.42
1:m:328:GLU:OE1	1:m:328:GLU:HA	2.20	0.42
1:o:277:PHE:HA	1:o:316:ILE:HD11	2.01	0.42
1:p:358:GLN:NE2	1:p:377:LYS:HA	2.32	0.42
1:B:187:ASN:HA	1:C:52:GLU:HB3	2.02	0.41
1:B:284:GLU:OE1	1:B:284:GLU:O	2.38	0.41
1:B:358:GLN:NE2	1:B:377:LYS:HA	2.32	0.41
1:D:328:GLU:OE1	1:D:328:GLU:HA	2.20	0.41
1:D:362:ILE:O	1:D:365:THR:OG1	2.31	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:284:GLU:OE1	1:E:284:GLU:O	2.38	0.41
1:I:141:ALA:HA	1:I:193:THR:O	2.19	0.41
1:J:284:GLU:OE1	1:J:284:GLU:O	2.38	0.41
1:P:284:GLU:OE1	1:P:284:GLU:O	2.38	0.41
1:Q:358:GLN:NE2	1:Q:377:LYS:HA	2.32	0.41
1:c:141:ALA:HA	1:c:193:THR:O	2.19	0.41
1:d:328:GLU:OE1	1:d:328:GLU:HA	2.20	0.41
1:d:362:ILE:O	1:d:365:THR:OG1	2.31	0.41
1:l:141:ALA:HA	1:l:193:THR:O	2.19	0.41
1:l:446:MET:HE1	1:l:478:TRP:CD1	2.54	0.41
1:m:284:GLU:OE1	1:m:284:GLU:O	2.38	0.41
1:q:231:ASP:CG	1:q:236:LYS:NZ	2.78	0.41
1:q:284:GLU:OE1	1:q:284:GLU:O	2.38	0.41
1:A:405:LYS:HB3	1:A:427:LYS:HB3	2.03	0.41
1:C:146:THR:CG2	1:C:147:ALA:N	2.84	0.41
1:E:187:ASN:HA	1:F:52:GLU:HB3	2.02	0.41
1:F:231:ASP:CG	1:F:236:LYS:NZ	2.78	0.41
1:F:284:GLU:OE1	1:F:284:GLU:O	2.38	0.41
1:I:294:LYS:HD3	1:I:392:PHE:CD1	2.56	0.41
1:L:141:ALA:HA	1:L:193:THR:O	2.19	0.41
1:M:122:HIS:NE2	1:M:259:ALA:O	2.49	0.41
1:N:277:PHE:HA	1:N:316:ILE:HD11	2.01	0.41
1:O:358:GLN:NE2	1:O:377:LYS:HA	2.32	0.41
1:a:187:ASN:HA	1:e:52:GLU:HB3	2.02	0.41
1:b:277:PHE:HA	1:b:316:ILE:HD11	2.01	0.41
1:d:146:THR:CG2	1:d:147:ALA:N	2.83	0.41
1:e:146:THR:CG2	1:e:147:ALA:N	2.84	0.41
1:e:284:GLU:OE1	1:e:284:GLU:O	2.38	0.41
1:g:231:ASP:CG	1:g:236:LYS:NZ	2.78	0.41
1:g:277:PHE:HA	1:g:316:ILE:HD11	2.00	0.41
1:g:284:GLU:OE1	1:g:284:GLU:O	2.38	0.41
1:i:284:GLU:OE1	1:i:284:GLU:O	2.38	0.41
1:j:187:ASN:HA	1:n:52:GLU:HB3	2.02	0.41
1:m:358:GLN:NE2	1:m:377:LYS:HA	2.32	0.41
1:n:294:LYS:HD3	1:n:392:PHE:CD1	2.56	0.41
1:r:141:ALA:HA	1:r:193:THR:O	2.19	0.41
1:A:20:TYR:CE2	1:A:323:ILE:HG21	2.56	0.41
1:A:277:PHE:HA	1:A:316:ILE:HD11	2.01	0.41
1:B:146:THR:CG2	1:B:147:ALA:N	2.84	0.41
1:D:146:THR:CG2	1:D:147:ALA:N	2.84	0.41
1:F:277:PHE:HA	1:F:316:ILE:HD11	2.00	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:277:PHE:HA	1:K:316:ILE:HD11	2.01	0.41
1:K:294:LYS:HD3	1:K:392:PHE:CD1	2.56	0.41
1:L:446:MET:HE1	1:L:478:TRP:CD1	2.54	0.41
1:M:20:TYR:CE2	1:M:323:ILE:HG21	2.56	0.41
1:M:284:GLU:OE1	1:M:284:GLU:O	2.38	0.41
1:N:290:VAL:O	1:N:302:LYS:NZ	2.46	0.41
1:O:284:GLU:OE1	1:O:284:GLU:O	2.38	0.41
1:O:450:SER:OG	1:O:459:ARG:O	2.29	0.41
1:a:146:THR:CG2	1:a:147:ALA:N	2.84	0.41
1:b:20:TYR:CE2	1:b:323:ILE:HG21	2.56	0.41
1:h:294:LYS:HD3	1:h:392:PHE:CD1	2.56	0.41
1:j:20:TYR:CE2	1:j:323:ILE:HG21	2.56	0.41
1:j:290:VAL:O	1:j:302:LYS:NZ	2.46	0.41
1:l:231:ASP:CG	1:l:236:LYS:NZ	2.78	0.41
1:r:294:LYS:HD3	1:r:392:PHE:CD1	2.56	0.41
1:A:52:GLU:HB3	1:R:187:ASN:HA	2.02	0.41
1:A:290:VAL:O	1:A:302:LYS:NZ	2.46	0.41
1:G:294:LYS:HD3	1:G:392:PHE:CD1	2.56	0.41
1:K:358:GLN:NE2	1:K:377:LYS:HA	2.32	0.41
1:L:231:ASP:CG	1:L:236:LYS:NZ	2.78	0.41
1:N:231:ASP:CG	1:N:236:LYS:NZ	2.78	0.41
1:N:294:LYS:HD3	1:N:392:PHE:CD1	2.56	0.41
1:N:403:PHE:HB2	1:N:429:LEU:HB2	2.00	0.41
1:P:294:LYS:HD3	1:P:392:PHE:CD1	2.56	0.41
1:Q:231:ASP:CG	1:Q:236:LYS:NZ	2.78	0.41
1:b:294:LYS:HD3	1:b:392:PHE:CD1	2.56	0.41
1:i:20:TYR:CE2	1:i:323:ILE:HG21	2.56	0.41
1:i:57:ILE:HD13	1:i:57:ILE:HA	1.95	0.41
1:i:294:LYS:HD3	1:i:392:PHE:CD1	2.56	0.41
1:j:284:GLU:OE1	1:j:284:GLU:O	2.38	0.41
1:k:294:LYS:HD3	1:k:392:PHE:CD1	2.55	0.41
1:m:231:ASP:CG	1:m:236:LYS:NZ	2.78	0.41
1:m:405:LYS:HB3	1:m:427:LYS:HB3	2.03	0.41
1:n:231:ASP:CG	1:n:236:LYS:NZ	2.78	0.41
1:n:290:VAL:O	1:n:302:LYS:NZ	2.46	0.41
1:o:294:LYS:HD3	1:o:392:PHE:CD1	2.56	0.41
1:p:231:ASP:CG	1:p:236:LYS:NZ	2.78	0.41
1:r:20:TYR:CE2	1:r:323:ILE:HG21	2.56	0.41
1:r:284:GLU:OE1	1:r:284:GLU:O	2.38	0.41
1:A:294:LYS:HD3	1:A:392:PHE:CD1	2.56	0.41
1:A:358:GLN:NE2	1:A:377:LYS:HA	2.32	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:122:HIS:NE2	1:B:259:ALA:O	2.49	0.41
1:B:328:GLU:OE1	1:B:328:GLU:HA	2.20	0.41
1:C:122:HIS:NE2	1:C:259:ALA:O	2.49	0.41
1:G:187:ASN:HA	1:H:52:GLU:HB3	2.03	0.41
1:H:117:GLN:O	1:H:117:GLN:HG3	2.21	0.41
1:J:20:TYR:CE2	1:J:323:ILE:HG21	2.56	0.41
1:M:294:LYS:HD3	1:M:392:PHE:CD1	2.56	0.41
1:N:117:GLN:HG3	1:N:117:GLN:O	2.21	0.41
1:N:328:GLU:OE1	1:N:328:GLU:HA	2.20	0.41
1:P:20:TYR:CE2	1:P:323:ILE:HG21	2.56	0.41
1:R:294:LYS:HD3	1:R:392:PHE:CD1	2.56	0.41
1:b:358:GLN:NE2	1:b:377:LYS:HA	2.32	0.41
1:g:187:ASN:HA	1:h:52:GLU:HB3	2.02	0.41
1:j:41:PRO:HG3	1:l:238:SER:O	2.21	0.41
1:q:141:ALA:HA	1:q:193:THR:O	2.19	0.41
1:A:122:HIS:NE2	1:A:259:ALA:O	2.49	0.41
1:A:146:THR:CG2	1:A:147:ALA:N	2.84	0.41
1:D:20:TYR:CE2	1:D:323:ILE:HG21	2.56	0.41
1:D:231:ASP:CG	1:D:236:LYS:NZ	2.78	0.41
1:D:294:LYS:HD3	1:D:392:PHE:CD1	2.56	0.41
1:F:294:LYS:HD3	1:F:392:PHE:CD1	2.56	0.41
1:H:277:PHE:HA	1:H:316:ILE:HD11	2.00	0.41
1:I:20:TYR:CE2	1:I:323:ILE:HG21	2.56	0.41
1:I:187:ASN:HA	1:J:52:GLU:HB3	2.03	0.41
1:I:284:GLU:OE1	1:I:284:GLU:O	2.38	0.41
1:J:141:ALA:HA	1:J:193:THR:O	2.19	0.41
1:K:141:ALA:HA	1:K:193:THR:O	2.19	0.41
1:O:231:ASP:CG	1:O:236:LYS:NZ	2.78	0.41
1:a:122:HIS:NE2	1:a:259:ALA:O	2.49	0.41
1:a:231:ASP:CG	1:a:236:LYS:NZ	2.78	0.41
1:a:328:GLU:OE1	1:a:328:GLU:HA	2.20	0.41
1:a:405:LYS:HB3	1:a:427:LYS:HB3	2.03	0.41
1:b:290:VAL:O	1:b:302:LYS:NZ	2.46	0.41
1:f:146:THR:CG2	1:f:147:ALA:N	2.84	0.41
1:f:174:THR:HA	1:g:65:ALA:O	2.21	0.41
1:f:294:LYS:HD3	1:f:392:PHE:CD1	2.56	0.41
1:f:328:GLU:OE1	1:f:328:GLU:HA	2.20	0.41
1:g:294:LYS:HD3	1:g:392:PHE:CD1	2.55	0.41
1:j:122:HIS:NE2	1:j:259:ALA:O	2.49	0.41
1:j:294:LYS:HD3	1:j:392:PHE:CD1	2.56	0.41
1:k:328:GLU:OE1	1:k:328:GLU:HA	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:l:283:ILE:O	1:l:286:MET:HB2	2.21	0.41
1:n:328:GLU:OE1	1:n:328:GLU:HA	2.20	0.41
1:n:403:PHE:HB2	1:n:429:LEU:HB2	2.01	0.41
1:E:20:TYR:CE2	1:E:323:ILE:HG21	2.56	0.41
1:E:117:GLN:O	1:E:117:GLN:HG3	2.21	0.41
1:E:146:THR:CG2	1:E:147:ALA:N	2.84	0.41
1:E:328:GLU:OE1	1:E:328:GLU:HA	2.20	0.41
1:G:192:ILE:HG13	1:G:217:ASP:OD2	2.21	0.41
1:H:20:TYR:CE2	1:H:323:ILE:HG21	2.56	0.41
1:K:231:ASP:CG	1:K:236:LYS:NZ	2.78	0.41
1:L:283:ILE:O	1:L:286:MET:HB2	2.21	0.41
1:L:294:LYS:HD3	1:L:392:PHE:CD1	2.56	0.41
1:L:403:PHE:HB2	1:L:429:LEU:HB2	2.01	0.41
1:O:20:TYR:CE2	1:O:323:ILE:HG21	2.56	0.41
1:O:283:ILE:O	1:O:286:MET:HB2	2.21	0.41
1:Q:288:LYS:HD3	1:R:271:TRP:CD2	2.55	0.41
1:Q:405:LYS:HB3	1:Q:427:LYS:HB3	2.02	0.41
1:R:328:GLU:OE1	1:R:328:GLU:HA	2.20	0.41
1:a:192:ILE:HG13	1:a:217:ASP:OD2	2.21	0.41
1:a:294:LYS:HD3	1:a:392:PHE:CD1	2.56	0.41
1:b:122:HIS:NE2	1:b:259:ALA:O	2.49	0.41
1:b:146:THR:CG2	1:b:147:ALA:N	2.84	0.41
1:c:20:TYR:CE2	1:c:323:ILE:HG21	2.56	0.41
1:d:231:ASP:CG	1:d:236:LYS:NZ	2.78	0.41
1:d:294:LYS:HD3	1:d:392:PHE:CD1	2.56	0.41
1:e:118:THR:HG22	1:e:120:THR:H	1.86	0.41
1:e:122:HIS:NE2	1:e:259:ALA:O	2.49	0.41
1:h:192:ILE:HG13	1:h:217:ASP:OD2	2.21	0.41
1:j:20:TYR:HB2	1:j:263:TYR:CD2	2.56	0.41
1:j:231:ASP:CG	1:j:236:LYS:NZ	2.78	0.41
1:l:294:LYS:HD3	1:l:392:PHE:CD1	2.56	0.41
1:m:283:ILE:O	1:m:286:MET:HB2	2.21	0.41
1:o:141:ALA:HA	1:o:193:THR:O	2.19	0.41
1:o:358:GLN:NE2	1:o:377:LYS:HA	2.32	0.41
1:q:20:TYR:CE2	1:q:323:ILE:HG21	2.56	0.41
1:B:192:ILE:HG13	1:B:217:ASP:OD2	2.21	0.41
1:B:231:ASP:CG	1:B:236:LYS:NZ	2.78	0.41
1:B:283:ILE:O	1:B:286:MET:HB2	2.21	0.41
1:B:294:LYS:HD3	1:B:392:PHE:CD1	2.56	0.41
1:D:358:GLN:NE2	1:D:377:LYS:HA	2.32	0.41
1:E:118:THR:HG22	1:E:120:THR:H	1.86	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:231:ASP:CG	1:E:236:LYS:NZ	2.78	0.41
1:E:294:LYS:HD3	1:E:392:PHE:CD1	2.56	0.41
1:F:283:ILE:O	1:F:286:MET:HB2	2.21	0.41
1:G:231:ASP:CG	1:G:236:LYS:NZ	2.78	0.41
1:I:283:ILE:O	1:I:286:MET:HB2	2.21	0.41
1:L:405:LYS:HB3	1:L:427:LYS:HB3	2.03	0.41
1:M:20:TYR:HB2	1:M:263:TYR:CD2	2.56	0.41
1:M:231:ASP:CG	1:M:236:LYS:NZ	2.78	0.41
1:N:187:ASN:HA	1:O:52:GLU:HB3	2.03	0.41
1:N:405:LYS:HB3	1:N:427:LYS:HB3	2.03	0.41
1:Q:283:ILE:O	1:Q:286:MET:HB2	2.21	0.41
1:R:118:THR:HG22	1:R:120:THR:H	1.86	0.41
1:a:283:ILE:O	1:a:286:MET:HB2	2.21	0.41
1:b:41:PRO:HG3	1:k:238:SER:O	2.21	0.41
1:b:450:SER:OG	1:b:459:ARG:O	2.29	0.41
1:d:20:TYR:CE2	1:d:323:ILE:HG21	2.56	0.41
1:d:358:GLN:NE2	1:d:377:LYS:HA	2.32	0.41
1:d:405:LYS:HB3	1:d:427:LYS:HB3	2.03	0.41
1:e:20:TYR:CE2	1:e:323:ILE:HG21	2.56	0.41
1:f:20:TYR:CE2	1:f:323:ILE:HG21	2.56	0.41
1:g:283:ILE:O	1:g:286:MET:HB2	2.21	0.41
1:h:231:ASP:CG	1:h:236:LYS:NZ	2.78	0.41
1:m:20:TYR:CE2	1:m:323:ILE:HG21	2.56	0.41
1:o:231:ASP:CG	1:o:236:LYS:NZ	2.78	0.41
1:q:283:ILE:O	1:q:286:MET:HB2	2.21	0.41
1:C:20:TYR:CE2	1:C:323:ILE:HG21	2.56	0.41
1:C:118:THR:HG22	1:C:120:THR:H	1.86	0.41
1:C:192:ILE:HG13	1:C:217:ASP:OD2	2.21	0.41
1:C:231:ASP:CG	1:C:236:LYS:NZ	2.78	0.41
1:C:283:ILE:O	1:C:286:MET:HB2	2.21	0.41
1:D:238:SER:O	1:E:41:PRO:HG3	2.21	0.41
1:F:192:ILE:HG13	1:F:217:ASP:OD2	2.21	0.41
1:G:283:ILE:O	1:G:286:MET:HB2	2.21	0.41
1:H:294:LYS:HD3	1:H:392:PHE:CD1	2.56	0.41
1:I:231:ASP:CG	1:I:236:LYS:NZ	2.78	0.41
1:I:290:VAL:O	1:I:302:LYS:NZ	2.46	0.41
1:J:238:SER:O	1:K:41:PRO:HG3	2.21	0.41
1:J:283:ILE:O	1:J:286:MET:HB2	2.21	0.41
1:K:20:TYR:HB2	1:K:263:TYR:CD2	2.56	0.41
1:K:20:TYR:CE2	1:K:323:ILE:HG21	2.56	0.41
1:K:117:GLN:O	1:K:117:GLN:HG3	2.21	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:118:THR:HG22	1:L:120:THR:H	1.86	0.41
1:M:118:THR:HG22	1:M:120:THR:H	1.86	0.41
1:M:146:THR:CG2	1:M:147:ALA:N	2.84	0.41
1:M:192:ILE:HG13	1:M:217:ASP:OD2	2.21	0.41
1:M:358:GLN:NE2	1:M:377:LYS:HA	2.32	0.41
1:N:118:THR:HG22	1:N:120:THR:H	1.86	0.41
1:N:192:ILE:HG13	1:N:217:ASP:OD2	2.21	0.41
1:O:20:TYR:HB2	1:O:263:TYR:CD2	2.56	0.41
1:O:117:GLN:HG3	1:O:117:GLN:O	2.21	0.41
1:O:118:THR:HG22	1:O:120:THR:H	1.86	0.41
1:O:134:ILE:N	1:O:242:PHE:O	2.53	0.41
1:O:294:LYS:HD3	1:O:392:PHE:CD1	2.56	0.41
1:P:57:ILE:HD13	1:P:57:ILE:HA	1.95	0.41
1:P:447:TYR:HB2	1:P:479:PHE:CZ	2.53	0.41
1:R:20:TYR:CE2	1:R:323:ILE:HG21	2.56	0.41
1:R:122:HIS:NE2	1:R:259:ALA:O	2.49	0.41
1:R:284:GLU:OE1	1:R:284:GLU:O	2.38	0.41
1:a:41:PRO:HG3	1:b:238:SER:O	2.21	0.41
1:b:118:THR:HG22	1:b:120:THR:H	1.86	0.41
1:b:446:MET:HE1	1:b:478:TRP:CD1	2.54	0.41
1:c:52:GLU:HB3	1:h:187:ASN:HA	2.03	0.41
1:c:277:PHE:HA	1:c:316:ILE:HD11	2.01	0.41
1:c:294:LYS:HD3	1:c:392:PHE:CD1	2.56	0.41
1:d:187:ASN:HA	1:f:52:GLU:HB3	2.03	0.41
1:e:283:ILE:O	1:e:286:MET:HB2	2.21	0.41
1:f:118:THR:HG22	1:f:120:THR:H	1.86	0.41
1:f:231:ASP:CG	1:f:236:LYS:NZ	2.78	0.41
1:f:238:SER:O	1:g:41:PRO:HG3	2.21	0.41
1:g:192:ILE:HG13	1:g:217:ASP:OD2	2.21	0.41
1:h:283:ILE:O	1:h:286:MET:HB2	2.21	0.41
1:i:52:GLU:HB3	1:m:187:ASN:HA	2.03	0.41
1:i:231:ASP:CG	1:i:236:LYS:NZ	2.78	0.41
1:i:447:TYR:HB2	1:i:479:PHE:CZ	2.54	0.41
1:j:118:THR:HG22	1:j:120:THR:H	1.86	0.41
1:j:146:THR:CG2	1:j:147:ALA:N	2.84	0.41
1:j:283:ILE:O	1:j:286:MET:HB2	2.21	0.41
1:j:405:LYS:HB3	1:j:427:LYS:HB3	2.03	0.41
1:k:20:TYR:CE2	1:k:323:ILE:HG21	2.56	0.41
1:k:118:THR:HG22	1:k:120:THR:H	1.86	0.41
1:k:122:HIS:NE2	1:k:259:ALA:O	2.49	0.41
1:k:283:ILE:O	1:k:286:MET:HB2	2.21	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:m:20:TYR:HB2	1:m:263:TYR:CD2	2.56	0.41
1:m:118:THR:HG22	1:m:120:THR:H	1.86	0.41
1:m:134:ILE:N	1:m:242:PHE:O	2.53	0.41
1:m:192:ILE:HG13	1:m:217:ASP:OD2	2.21	0.41
1:n:118:THR:HG22	1:n:120:THR:H	1.86	0.41
1:n:192:ILE:HG13	1:n:217:ASP:OD2	2.21	0.41
1:o:20:TYR:HB2	1:o:263:TYR:CD2	2.56	0.41
1:o:65:ALA:O	1:q:174:THR:HA	2.21	0.41
1:p:283:ILE:O	1:p:286:MET:HB2	2.21	0.41
1:q:403:PHE:HB2	1:q:429:LEU:HB2	2.01	0.41
1:A:328:GLU:OE1	1:A:328:GLU:HA	2.20	0.41
1:D:117:GLN:O	1:D:117:GLN:HG3	2.21	0.41
1:E:405:LYS:HB3	1:E:427:LYS:HB3	2.03	0.41
1:G:134:ILE:N	1:G:242:PHE:O	2.53	0.41
1:G:238:SER:O	1:H:41:PRO:HG3	2.21	0.41
1:H:146:THR:CG2	1:H:147:ALA:N	2.83	0.41
1:I:20:TYR:HB2	1:I:263:TYR:CD2	2.56	0.41
1:J:328:GLU:OE1	1:J:328:GLU:HA	2.20	0.41
1:K:187:ASN:HA	1:L:52:GLU:HB3	2.03	0.41
1:L:192:ILE:HG13	1:L:217:ASP:OD2	2.21	0.41
1:N:283:ILE:O	1:N:286:MET:HB2	2.21	0.41
1:O:192:ILE:HG13	1:O:217:ASP:OD2	2.21	0.41
1:P:118:THR:HG22	1:P:120:THR:H	1.86	0.41
1:P:187:ASN:HA	1:Q:52:GLU:HB3	2.03	0.41
1:P:192:ILE:HG13	1:P:217:ASP:OD2	2.21	0.41
1:R:283:ILE:O	1:R:286:MET:HB2	2.21	0.41
1:R:403:PHE:HB3	1:R:429:LEU:HD12	2.02	0.41
1:a:20:TYR:CE2	1:a:323:ILE:HG21	2.56	0.41
1:b:192:ILE:HG13	1:b:217:ASP:OD2	2.21	0.41
1:d:25:CYS:O	1:d:26:VAL:C	2.64	0.41
1:e:192:ILE:HG13	1:e:217:ASP:OD2	2.21	0.41
1:g:447:TYR:HD2	1:g:479:PHE:HE1	1.69	0.41
1:j:192:ILE:HG13	1:j:217:ASP:OD2	2.21	0.41
1:l:118:THR:HG22	1:l:120:THR:H	1.86	0.41
1:l:192:ILE:HG13	1:l:217:ASP:OD2	2.21	0.41
1:n:405:LYS:HB3	1:n:427:LYS:HB3	2.03	0.41
1:q:192:ILE:HG13	1:q:217:ASP:OD2	2.21	0.41
1:r:20:TYR:HB2	1:r:263:TYR:CD2	2.56	0.41
1:r:290:VAL:O	1:r:302:LYS:NZ	2.46	0.41
1:r:328:GLU:HA	1:r:328:GLU:OE1	2.20	0.41
1:A:446:MET:HE1	1:A:478:TRP:CD1	2.54	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:20:TYR:CE2	1:B:323:ILE:HG21	2.56	0.40
1:B:405:LYS:HB3	1:B:427:LYS:HB3	2.03	0.40
1:D:25:CYS:O	1:D:26:VAL:C	2.64	0.40
1:F:20:TYR:CE2	1:F:323:ILE:HG21	2.56	0.40
1:F:447:TYR:HD2	1:F:479:PHE:HE1	1.69	0.40
1:G:118:THR:HG22	1:G:120:THR:H	1.86	0.40
1:I:117:GLN:O	1:I:117:GLN:HG3	2.21	0.40
1:I:118:THR:HG22	1:I:120:THR:H	1.86	0.40
1:I:328:GLU:OE1	1:I:328:GLU:HA	2.20	0.40
1:J:174:THR:HA	1:K:65:ALA:O	2.22	0.40
1:J:192:ILE:HG13	1:J:217:ASP:OD2	2.21	0.40
1:J:403:PHE:HB2	1:J:429:LEU:HB2	2.01	0.40
1:K:118:THR:HG22	1:K:120:THR:H	1.86	0.40
1:K:192:ILE:HG13	1:K:217:ASP:OD2	2.21	0.40
1:K:328:GLU:OE1	1:K:328:GLU:HA	2.20	0.40
1:L:117:GLN:O	1:L:117:GLN:HG3	2.21	0.40
1:L:146:THR:CG2	1:L:147:ALA:N	2.84	0.40
1:M:405:LYS:HB3	1:M:427:LYS:HB3	2.03	0.40
1:N:146:THR:CG2	1:N:147:ALA:N	2.84	0.40
1:O:403:PHE:CB	1:O:429:LEU:HB2	2.51	0.40
1:P:231:ASP:CG	1:P:236:LYS:NZ	2.78	0.40
1:Q:192:ILE:HG13	1:Q:217:ASP:OD2	2.21	0.40
1:e:294:LYS:HD3	1:e:392:PHE:CD1	2.56	0.40
1:e:405:LYS:HB3	1:e:427:LYS:HB3	2.03	0.40
1:h:20:TYR:CE2	1:h:323:ILE:HG21	2.56	0.40
1:h:447:TYR:HD2	1:h:479:PHE:HE1	1.69	0.40
1:i:118:THR:HG22	1:i:120:THR:H	1.86	0.40
1:i:192:ILE:HG13	1:i:217:ASP:OD2	2.21	0.40
1:j:141:ALA:HA	1:j:193:THR:O	2.19	0.40
1:l:52:GLU:HB3	1:o:187:ASN:HA	2.03	0.40
1:m:294:LYS:HD3	1:m:392:PHE:CD1	2.56	0.40
1:n:146:THR:CG2	1:n:147:ALA:N	2.84	0.40
1:n:283:ILE:O	1:n:286:MET:HB2	2.21	0.40
1:o:20:TYR:CE2	1:o:323:ILE:HG21	2.56	0.40
1:o:328:GLU:OE1	1:o:328:GLU:HA	2.20	0.40
1:q:294:LYS:HD3	1:q:392:PHE:CD1	2.56	0.40
1:q:328:GLU:OE1	1:q:328:GLU:HA	2.20	0.40
1:r:118:THR:HG22	1:r:120:THR:H	1.86	0.40
1:B:20:TYR:HB2	1:B:263:TYR:CD2	2.56	0.40
1:C:115:LYS:O	1:C:116:ILE:HD13	2.22	0.40
1:G:20:TYR:CE2	1:G:323:ILE:HG21	2.56	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:174:THR:HA	1:H:65:ALA:O	2.22	0.40
1:I:146:THR:CG2	1:I:147:ALA:N	2.84	0.40
1:I:414:CYS:SG	1:I:449:VAL:HG21	2.62	0.40
1:J:294:LYS:HD3	1:J:392:PHE:CD1	2.56	0.40
1:K:238:SER:O	1:L:41:PRO:HG3	2.21	0.40
1:L:20:TYR:CE2	1:L:323:ILE:HG21	2.56	0.40
1:M:141:ALA:HA	1:M:193:THR:O	2.19	0.40
1:M:283:ILE:O	1:M:286:MET:HB2	2.21	0.40
1:M:362:ILE:O	1:M:365:THR:OG1	2.31	0.40
1:N:20:TYR:CE2	1:N:323:ILE:HG21	2.56	0.40
1:P:447:TYR:HD2	1:P:479:PHE:HE1	1.69	0.40
1:Q:20:TYR:CE2	1:Q:323:ILE:HG21	2.56	0.40
1:R:146:THR:CG2	1:R:147:ALA:N	2.84	0.40
1:b:20:TYR:HB2	1:b:263:TYR:CD2	2.56	0.40
1:d:20:TYR:HB2	1:d:263:TYR:CD2	2.56	0.40
1:e:20:TYR:HB2	1:e:263:TYR:CD2	2.56	0.40
1:e:231:ASP:CG	1:e:236:LYS:NZ	2.78	0.40
1:f:20:TYR:HB2	1:f:263:TYR:CD2	2.56	0.40
1:f:403:PHE:CB	1:f:429:LEU:HB2	2.51	0.40
1:i:447:TYR:HD2	1:i:479:PHE:HE1	1.69	0.40
1:j:358:GLN:NE2	1:j:377:LYS:HA	2.32	0.40
1:k:284:GLU:OE1	1:k:284:GLU:O	2.38	0.40
1:n:20:TYR:CE2	1:n:323:ILE:HG21	2.56	0.40
1:n:446:MET:HE1	1:n:478:TRP:CD1	2.54	0.40
1:p:20:TYR:CE2	1:p:323:ILE:HG21	2.56	0.40
1:p:192:ILE:HG13	1:p:217:ASP:OD2	2.21	0.40
1:q:146:THR:CG2	1:q:147:ALA:N	2.84	0.40
1:r:146:THR:CG2	1:r:147:ALA:N	2.83	0.40
1:r:414:CYS:SG	1:r:449:VAL:HG21	2.62	0.40
1:A:20:TYR:HB2	1:A:263:TYR:CD2	2.56	0.40
1:A:192:ILE:HG13	1:A:217:ASP:OD2	2.21	0.40
1:C:20:TYR:HB2	1:C:263:TYR:CD2	2.56	0.40
1:C:294:LYS:HD3	1:C:392:PHE:CD1	2.56	0.40
1:D:20:TYR:HB2	1:D:263:TYR:CD2	2.56	0.40
1:D:228:PHE:CD2	1:D:237:HIS:CE1	3.10	0.40
1:E:283:ILE:O	1:E:286:MET:HB2	2.21	0.40
1:F:117:GLN:O	1:F:117:GLN:HG3	2.21	0.40
1:G:25:CYS:O	1:G:26:VAL:C	2.64	0.40
1:G:146:THR:CG2	1:G:147:ALA:N	2.84	0.40
1:G:447:TYR:HD2	1:G:479:PHE:HE1	1.69	0.40
1:H:192:ILE:HG13	1:H:217:ASP:OD2	2.21	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:146:THR:CG2	1:J:147:ALA:N	2.84	0.40
1:M:328:GLU:OE1	1:M:328:GLU:HA	2.20	0.40
1:M:447:TYR:HD2	1:M:479:PHE:HE1	1.69	0.40
1:N:446:MET:HE1	1:N:478:TRP:CD1	2.54	0.40
1:O:174:THR:HA	1:P:65:ALA:O	2.21	0.40
1:O:238:SER:O	1:P:41:PRO:HG3	2.21	0.40
1:Q:115:LYS:O	1:Q:116:ILE:HD13	2.22	0.40
1:Q:294:LYS:HD3	1:Q:392:PHE:CD1	2.55	0.40
1:R:405:LYS:HB3	1:R:427:LYS:HB3	2.03	0.40
1:a:20:TYR:HB2	1:a:263:TYR:CD2	2.56	0.40
1:b:328:GLU:OE1	1:b:328:GLU:HA	2.20	0.40
1:c:146:THR:CG2	1:c:147:ALA:N	2.84	0.40
1:c:407:LYS:HE3	1:c:427:LYS:HA	2.03	0.40
1:d:238:SER:O	1:f:41:PRO:HG3	2.21	0.40
1:e:115:LYS:O	1:e:116:ILE:HD13	2.22	0.40
1:g:20:TYR:CE2	1:g:323:ILE:HG21	2.56	0.40
1:g:57:ILE:HD13	1:g:57:ILE:HA	1.95	0.40
1:g:328:GLU:OE1	1:g:328:GLU:HA	2.20	0.40
1:h:25:CYS:O	1:h:26:VAL:C	2.65	0.40
1:h:118:THR:HG22	1:h:120:THR:H	1.86	0.40
1:h:134:ILE:N	1:h:242:PHE:O	2.53	0.40
1:h:405:LYS:HB3	1:h:427:LYS:HB3	2.02	0.40
1:h:414:CYS:SG	1:h:449:VAL:HG21	2.62	0.40
1:j:362:ILE:O	1:j:365:THR:OG1	2.31	0.40
1:k:405:LYS:HB3	1:k:427:LYS:HB3	2.04	0.40
1:l:20:TYR:CE2	1:l:323:ILE:HG21	2.56	0.40
1:l:146:THR:CG2	1:l:147:ALA:N	2.84	0.40
1:m:41:PRO:HG3	1:n:238:SER:O	2.21	0.40
1:o:118:THR:HG22	1:o:120:THR:H	1.86	0.40
1:o:192:ILE:HG13	1:o:217:ASP:OD2	2.21	0.40
1:o:450:SER:OG	1:o:459:ARG:O	2.29	0.40
1:p:294:LYS:HD3	1:p:392:PHE:CD1	2.56	0.40
1:q:118:THR:HG22	1:q:120:THR:H	1.86	0.40
1:B:174:THR:HA	1:C:65:ALA:O	2.21	0.40
1:C:228:PHE:CD2	1:C:237:HIS:CE1	3.10	0.40
1:D:174:THR:HA	1:E:65:ALA:O	2.22	0.40
1:E:20:TYR:HB2	1:E:263:TYR:CD2	2.56	0.40
1:F:20:TYR:HB2	1:F:263:TYR:CD2	2.56	0.40
1:F:405:LYS:HB3	1:F:427:LYS:HB3	2.03	0.40
1:G:117:GLN:O	1:G:117:GLN:HG3	2.21	0.40
1:G:414:CYS:SG	1:G:449:VAL:HG21	2.62	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:115:LYS:O	1:I:116:ILE:HD13	2.22	0.40
1:K:414:CYS:SG	1:K:449:VAL:HG21	2.62	0.40
1:K:450:SER:OG	1:K:459:ARG:O	2.29	0.40
1:L:122:HIS:NE2	1:L:259:ALA:O	2.49	0.40
1:M:117:GLN:HG3	1:M:117:GLN:O	2.21	0.40
1:N:134:ILE:N	1:N:242:PHE:O	2.52	0.40
1:O:228:PHE:CD2	1:O:237:HIS:CE1	3.10	0.40
1:P:228:PHE:CD2	1:P:237:HIS:CE1	3.10	0.40
1:R:20:TYR:HB2	1:R:263:TYR:CD2	2.56	0.40
1:R:228:PHE:CD2	1:R:237:HIS:CE1	3.10	0.40
1:b:65:ALA:O	1:k:174:THR:HA	2.22	0.40
1:c:174:THR:HA	1:r:65:ALA:O	2.22	0.40
1:c:192:ILE:HG13	1:c:217:ASP:OD2	2.21	0.40
1:d:65:ALA:O	1:e:174:THR:HA	2.22	0.40
1:f:414:CYS:SG	1:f:449:VAL:HG21	2.62	0.40
1:g:20:TYR:HB2	1:g:263:TYR:CD2	2.56	0.40
1:g:228:PHE:CD2	1:g:237:HIS:CE1	3.10	0.40
1:h:115:LYS:O	1:h:116:ILE:HD13	2.22	0.40
1:h:146:THR:CG2	1:h:147:ALA:N	2.84	0.40
1:i:228:PHE:CD2	1:i:237:HIS:CE1	3.10	0.40
1:j:65:ALA:O	1:l:174:THR:HA	2.22	0.40
1:j:447:TYR:HD2	1:j:479:PHE:HE1	1.69	0.40
1:k:20:TYR:HB2	1:k:263:TYR:CD2	2.56	0.40
1:k:146:THR:CG2	1:k:147:ALA:N	2.84	0.40
1:k:228:PHE:CD2	1:k:237:HIS:CE1	3.10	0.40
1:k:414:CYS:SG	1:k:449:VAL:HG21	2.62	0.40
1:l:115:LYS:O	1:l:116:ILE:HD13	2.22	0.40
1:m:115:LYS:O	1:m:116:ILE:HD13	2.22	0.40
1:m:228:PHE:CD2	1:m:237:HIS:CE1	3.10	0.40
1:o:414:CYS:SG	1:o:449:VAL:HG21	2.62	0.40
1:p:20:TYR:HB2	1:p:263:TYR:CD2	2.56	0.40
1:p:362:ILE:O	1:p:365:THR:OG1	2.31	0.40
1:r:115:LYS:O	1:r:116:ILE:HD13	2.22	0.40
1:r:446:MET:HE1	1:r:478:TRP:CD1	2.53	0.40
1:A:25:CYS:O	1:A:26:VAL:C	2.64	0.40
1:A:41:PRO:HG3	1:R:238:SER:O	2.22	0.40
1:A:228:PHE:CD2	1:A:237:HIS:CE1	3.10	0.40
1:E:25:CYS:O	1:E:26:VAL:C	2.64	0.40
1:E:228:PHE:CD2	1:E:237:HIS:CE1	3.10	0.40
1:E:414:CYS:SG	1:E:449:VAL:HG21	2.62	0.40
1:F:57:ILE:HD13	1:F:57:ILE:HA	1.95	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:228:PHE:CD2	1:F:237:HIS:CE1	3.10	0.40
1:F:328:GLU:OE1	1:F:328:GLU:HA	2.20	0.40
1:F:358:GLN:NE2	1:F:377:LYS:HA	2.32	0.40
1:G:115:LYS:O	1:G:116:ILE:HD13	2.22	0.40
1:H:20:TYR:HB2	1:H:263:TYR:CD2	2.56	0.40
1:H:174:THR:HA	1:I:65:ALA:O	2.22	0.40
1:J:20:TYR:HB2	1:J:263:TYR:CD2	2.56	0.40
1:L:115:LYS:O	1:L:116:ILE:HD13	2.22	0.40
1:L:328:GLU:OE1	1:L:328:GLU:HA	2.20	0.40
1:N:228:PHE:CD2	1:N:237:HIS:CE1	3.10	0.40
1:N:238:SER:O	1:O:41:PRO:HG3	2.21	0.40
1:O:414:CYS:SG	1:O:449:VAL:HG21	2.62	0.40
1:Q:228:PHE:CD2	1:Q:237:HIS:CE1	3.10	0.40
1:R:414:CYS:SG	1:R:449:VAL:HG21	2.62	0.40
1:b:25:CYS:O	1:b:26:VAL:C	2.65	0.40
1:b:228:PHE:CD2	1:b:237:HIS:CE1	3.10	0.40
1:c:20:TYR:HB2	1:c:263:TYR:CD2	2.56	0.40
1:c:405:LYS:HB3	1:c:427:LYS:HB3	2.03	0.40
1:d:228:PHE:CD2	1:d:237:HIS:CE1	3.10	0.40
1:e:228:PHE:CD2	1:e:237:HIS:CE1	3.10	0.40
1:f:25:CYS:O	1:f:26:VAL:C	2.64	0.40
1:f:228:PHE:CD2	1:f:237:HIS:CE1	3.10	0.40
1:f:283:ILE:O	1:f:286:MET:HB2	2.21	0.40
1:g:115:LYS:O	1:g:116:ILE:HD13	2.22	0.40
1:h:228:PHE:CD2	1:h:237:HIS:CE1	3.10	0.40
1:i:20:TYR:HB2	1:i:263:TYR:CD2	2.56	0.40
1:i:41:PRO:HG3	1:m:238:SER:O	2.21	0.40
1:j:57:ILE:HD13	1:j:57:ILE:HA	1.95	0.40
1:k:52:GLU:HB3	1:p:187:ASN:HA	2.03	0.40
1:l:328:GLU:OE1	1:l:328:GLU:HA	2.20	0.40
1:p:115:LYS:O	1:p:116:ILE:HD13	2.22	0.40
1:q:57:ILE:HD13	1:q:57:ILE:HA	1.94	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	441/488 (90%)	413 (94%)	28 (6%)	0	100	100
1	B	441/488 (90%)	414 (94%)	27 (6%)	0	100	100
1	C	441/488 (90%)	413 (94%)	28 (6%)	0	100	100
1	D	441/488 (90%)	413 (94%)	28 (6%)	0	100	100
1	E	441/488 (90%)	413 (94%)	28 (6%)	0	100	100
1	F	441/488 (90%)	413 (94%)	28 (6%)	0	100	100
1	G	441/488 (90%)	413 (94%)	28 (6%)	0	100	100
1	H	441/488 (90%)	413 (94%)	28 (6%)	0	100	100
1	I	441/488 (90%)	413 (94%)	28 (6%)	0	100	100
1	J	441/488 (90%)	413 (94%)	28 (6%)	0	100	100
1	K	441/488 (90%)	413 (94%)	28 (6%)	0	100	100
1	L	441/488 (90%)	413 (94%)	28 (6%)	0	100	100
1	M	441/488 (90%)	413 (94%)	28 (6%)	0	100	100
1	N	441/488 (90%)	413 (94%)	28 (6%)	0	100	100
1	O	441/488 (90%)	412 (93%)	29 (7%)	0	100	100
1	P	441/488 (90%)	413 (94%)	28 (6%)	0	100	100
1	Q	441/488 (90%)	412 (93%)	29 (7%)	0	100	100
1	R	441/488 (90%)	412 (93%)	29 (7%)	0	100	100
1	a	441/488 (90%)	413 (94%)	28 (6%)	0	100	100
1	b	441/488 (90%)	413 (94%)	28 (6%)	0	100	100
1	c	441/488 (90%)	412 (93%)	29 (7%)	0	100	100
1	d	441/488 (90%)	413 (94%)	28 (6%)	0	100	100
1	e	441/488 (90%)	413 (94%)	28 (6%)	0	100	100
1	f	441/488 (90%)	413 (94%)	28 (6%)	0	100	100
1	g	441/488 (90%)	413 (94%)	28 (6%)	0	100	100
1	h	441/488 (90%)	412 (93%)	29 (7%)	0	100	100
1	i	441/488 (90%)	413 (94%)	28 (6%)	0	100	100
1	j	441/488 (90%)	413 (94%)	28 (6%)	0	100	100
1	k	441/488 (90%)	413 (94%)	28 (6%)	0	100	100

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	l	441/488 (90%)	413 (94%)	28 (6%)	0	100	100
1	m	441/488 (90%)	413 (94%)	28 (6%)	0	100	100
1	n	441/488 (90%)	413 (94%)	28 (6%)	0	100	100
1	o	441/488 (90%)	413 (94%)	28 (6%)	0	100	100
1	p	441/488 (90%)	413 (94%)	28 (6%)	0	100	100
1	q	441/488 (90%)	413 (94%)	28 (6%)	0	100	100
1	r	441/488 (90%)	413 (94%)	28 (6%)	0	100	100
All	All	15876/17568 (90%)	14864 (94%)	1012 (6%)	0	100	100

There are no Ramachandran outliers to report.

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	399/428 (93%)	395 (99%)	4 (1%)	73	81
1	B	399/428 (93%)	396 (99%)	3 (1%)	79	85
1	C	399/428 (93%)	395 (99%)	4 (1%)	73	81
1	D	399/428 (93%)	396 (99%)	3 (1%)	79	85
1	E	399/428 (93%)	395 (99%)	4 (1%)	73	81
1	F	399/428 (93%)	396 (99%)	3 (1%)	79	85
1	G	399/428 (93%)	396 (99%)	3 (1%)	79	85
1	H	399/428 (93%)	396 (99%)	3 (1%)	79	85
1	I	399/428 (93%)	396 (99%)	3 (1%)	79	85
1	J	399/428 (93%)	396 (99%)	3 (1%)	79	85
1	K	399/428 (93%)	395 (99%)	4 (1%)	73	81
1	L	399/428 (93%)	396 (99%)	3 (1%)	79	85
1	M	399/428 (93%)	396 (99%)	3 (1%)	79	85
1	N	399/428 (93%)	396 (99%)	3 (1%)	79	85

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
1	O	399/428 (93%)	396 (99%)	3 (1%)	79	85
1	P	399/428 (93%)	396 (99%)	3 (1%)	79	85
1	Q	399/428 (93%)	396 (99%)	3 (1%)	79	85
1	R	399/428 (93%)	395 (99%)	4 (1%)	73	81
1	a	399/428 (93%)	396 (99%)	3 (1%)	79	85
1	b	399/428 (93%)	395 (99%)	4 (1%)	73	81
1	c	399/428 (93%)	396 (99%)	3 (1%)	79	85
1	d	399/428 (93%)	396 (99%)	3 (1%)	79	85
1	e	399/428 (93%)	396 (99%)	3 (1%)	79	85
1	f	399/428 (93%)	396 (99%)	3 (1%)	79	85
1	g	399/428 (93%)	396 (99%)	3 (1%)	79	85
1	h	399/428 (93%)	396 (99%)	3 (1%)	79	85
1	i	399/428 (93%)	396 (99%)	3 (1%)	79	85
1	j	399/428 (93%)	396 (99%)	3 (1%)	79	85
1	k	399/428 (93%)	396 (99%)	3 (1%)	79	85
1	l	399/428 (93%)	396 (99%)	3 (1%)	79	85
1	m	399/428 (93%)	396 (99%)	3 (1%)	79	85
1	n	399/428 (93%)	396 (99%)	3 (1%)	79	85
1	o	399/428 (93%)	395 (99%)	4 (1%)	73	81
1	p	399/428 (93%)	396 (99%)	3 (1%)	79	85
1	q	399/428 (93%)	396 (99%)	3 (1%)	79	85
1	r	399/428 (93%)	396 (99%)	3 (1%)	79	85
All	All	14364/15408 (93%)	14249 (99%)	115 (1%)	77	85

All (115) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	116	ILE
1	A	347	LEU
1	A	381	ASN
1	A	395	LEU
1	B	347	LEU
1	B	381	ASN
1	B	395	LEU

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Mol	Chain	Res	Type
1	C	51	ILE
1	C	347	LEU
1	C	381	ASN
1	C	395	LEU
1	D	347	LEU
1	D	381	ASN
1	D	395	LEU
1	E	51	ILE
1	E	347	LEU
1	E	381	ASN
1	E	395	LEU
1	F	347	LEU
1	F	381	ASN
1	F	395	LEU
1	G	347	LEU
1	G	381	ASN
1	G	395	LEU
1	H	347	LEU
1	H	381	ASN
1	H	395	LEU
1	I	347	LEU
1	I	381	ASN
1	I	395	LEU
1	J	347	LEU
1	J	381	ASN
1	J	395	LEU
1	K	51	ILE
1	K	347	LEU
1	K	381	ASN
1	K	395	LEU
1	L	347	LEU
1	L	381	ASN
1	L	395	LEU
1	M	347	LEU
1	M	381	ASN
1	M	395	LEU
1	N	347	LEU
1	N	381	ASN
1	N	395	LEU
1	O	347	LEU
1	O	381	ASN
1	O	395	LEU

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Mol	Chain	Res	Type
1	P	347	LEU
1	P	381	ASN
1	P	395	LEU
1	Q	347	LEU
1	Q	381	ASN
1	Q	395	LEU
1	R	51	ILE
1	R	347	LEU
1	R	381	ASN
1	R	395	LEU
1	a	347	LEU
1	a	381	ASN
1	a	395	LEU
1	b	51	ILE
1	b	347	LEU
1	b	381	ASN
1	b	395	LEU
1	c	347	LEU
1	c	381	ASN
1	c	395	LEU
1	d	347	LEU
1	d	381	ASN
1	d	395	LEU
1	e	347	LEU
1	e	381	ASN
1	e	395	LEU
1	f	347	LEU
1	f	381	ASN
1	f	395	LEU
1	g	347	LEU
1	g	381	ASN
1	g	395	LEU
1	h	347	LEU
1	h	381	ASN
1	h	395	LEU
1	i	347	LEU
1	i	381	ASN
1	i	395	LEU
1	j	347	LEU
1	j	381	ASN
1	j	395	LEU
1	k	347	LEU

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Mol	Chain	Res	Type
1	k	381	ASN
1	k	395	LEU
1	l	347	LEU
1	l	381	ASN
1	l	395	LEU
1	m	347	LEU
1	m	381	ASN
1	m	395	LEU
1	n	347	LEU
1	n	381	ASN
1	n	395	LEU
1	o	51	ILE
1	o	347	LEU
1	o	381	ASN
1	o	395	LEU
1	p	347	LEU
1	p	381	ASN
1	p	395	LEU
1	q	347	LEU
1	q	381	ASN
1	q	395	LEU
1	r	347	LEU
1	r	381	ASN
1	r	395	LEU

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (91) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	308	GLN
1	A	326	HIS
1	A	381	ASN
1	A	465	GLN
1	B	308	GLN
1	B	381	ASN
1	C	308	GLN
1	C	381	ASN
1	D	308	GLN
1	D	381	ASN
1	E	308	GLN
1	E	381	ASN
1	F	308	GLN
1	F	358	GLN

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Mol	Chain	Res	Type
1	F	381	ASN
1	G	227	GLN
1	G	308	GLN
1	G	381	ASN
1	H	308	GLN
1	H	381	ASN
1	I	308	GLN
1	I	358	GLN
1	I	381	ASN
1	J	227	GLN
1	J	308	GLN
1	J	326	HIS
1	J	381	ASN
1	K	308	GLN
1	K	381	ASN
1	L	227	GLN
1	L	308	GLN
1	L	381	ASN
1	M	227	GLN
1	M	308	GLN
1	M	381	ASN
1	N	308	GLN
1	N	381	ASN
1	O	308	GLN
1	O	381	ASN
1	P	308	GLN
1	P	381	ASN
1	Q	308	GLN
1	Q	381	ASN
1	R	308	GLN
1	R	381	ASN
1	a	308	GLN
1	a	381	ASN
1	b	308	GLN
1	b	381	ASN
1	c	308	GLN
1	c	381	ASN
1	d	308	GLN
1	d	381	ASN
1	e	227	GLN
1	e	308	GLN
1	e	381	ASN

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Mol	Chain	Res	Type
1	f	308	GLN
1	f	381	ASN
1	g	308	GLN
1	g	358	GLN
1	g	381	ASN
1	h	227	GLN
1	h	308	GLN
1	h	381	ASN
1	i	308	GLN
1	i	381	ASN
1	j	227	GLN
1	j	308	GLN
1	j	381	ASN
1	k	308	GLN
1	k	381	ASN
1	l	227	GLN
1	l	308	GLN
1	l	381	ASN
1	m	308	GLN
1	m	381	ASN
1	n	308	GLN
1	n	381	ASN
1	o	227	GLN
1	o	308	GLN
1	o	381	ASN
1	p	308	GLN
1	p	381	ASN
1	q	227	GLN
1	q	308	GLN
1	q	326	HIS
1	q	381	ASN
1	r	308	GLN
1	r	358	GLN
1	r	381	ASN
1	r	465	GLN

5.3.3 RNA

There are no RNA molecules in this entry.

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

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

5.5 Carbohydrates (i)

There are no oligosaccharides in this entry.

5.6 Ligand geometry (i)

There are no ligands in this entry.

5.7 Other polymers (i)

There are no such residues in this entry.

5.8 Polymer linkage issues (i)

There are no chain breaks in this entry.