Full wwPDB EM Validation Report

Mar 20, 2026 – 03:04 AM UTC

PDB ID	:	6O9R / pdb_00006o9r
EMDB ID	:	EMD-0663
Title	:	The capsid structure of empty AAVrh.10 particles
Authors	:	Mietzsch, M.; Agbandje-McKenna, M.
Deposited on	:	2019-03-14
Resolution	:	2.75 Å(reported)

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

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

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

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

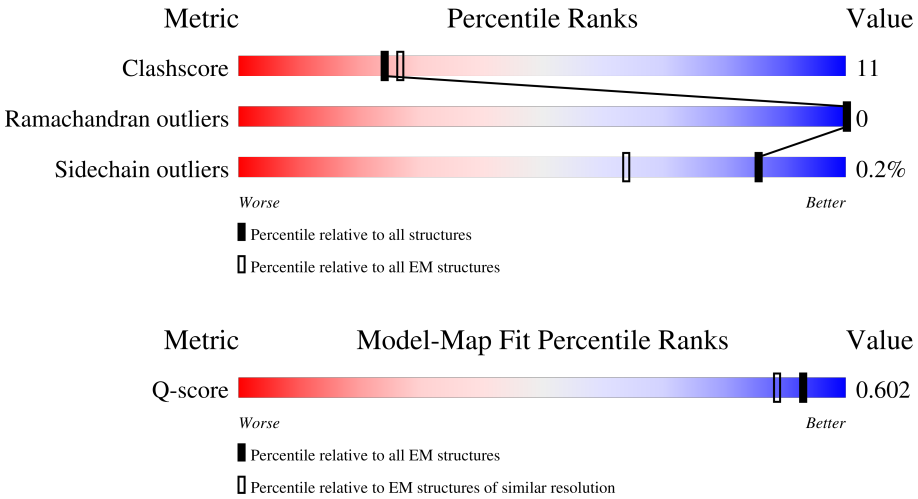
EMDB validation analysis	:	0.0.1.dev132
MolProbity	:	4-5-2 with Phenix2.0
Percentile statistics	:	20250101.v01 (using entries in the PDB archive January 1st 2025)
EM percentile statistics	:	202505.v01 (Using data in the EMDB archive up until May 2025)
MapQ	:	1.9.13
Ideal geometry (proteins)	:	Engh &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

1 Overall quality at a glance

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

The reported resolution of this entry is 2.75 Å.

Percentile scores (ranging between 0-100) for global validation metrics of the entry are shown in the following graphic. The table shows the number of entries on which the scores are based.



Metric	Whole archive (#Entries)	EM structures (#Entries)	Similar EM resolution (#Entries, resolution range(Å))
Clashscore	229148	23984	-
Ramachandran outliers	224038	23583	-
Sidechain outliers	223484	23102	-
Q-score	-	25397	10570 (2.25 - 3.25)

The table below summarises the geometric issues observed across the polymeric chains and their fit to the map. The red, orange, yellow and green segments of the bar indicate the fraction of residues that contain outliers for >=3, 2, 1 and 0 types of geometric quality criteria respectively. A grey segment represents the fraction of residues that are not modelled. The numeric value for each fraction is indicated below the corresponding segment, with a dot representing fractions <=5% The upper red bar (where present) indicates the fraction of residues that have poor fit to the EM map (all-atom inclusion < 40%). The numeric value is given above the bar.

Mol	Chain	Length	Quality of chain
1	1	520	75% 25%
1	2	520	75% 25%
1	3	520	76% 24%
1	4	520	75% 25%

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Mol	Chain	Length	Quality of chain
1	5	520	75% 25%
1	6	520	76% 24%
1	7	520	74% 26%
1	8	520	74% 26%
1	A	520	75% 25%
1	B	520	75% 25%
1	C	520	74% 26%
1	D	520	75% 25%
1	E	520	74% 26%
1	F	520	75% 25%
1	G	520	75% 25%
1	H	520	75% 25%
1	I	520	74% 26%
1	J	520	74% 26%
1	K	520	75% 25%
1	L	520	74% 26%
1	M	520	75% 25%
1	N	520	75% 25%
1	O	520	75% 25%
1	P	520	74% 26%
1	Q	520	75% 25%
1	R	520	74% 26%
1	S	520	74% 26%
1	T	520	75% 25%
1	U	520	74% 26%

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Mol	Chain	Length	Quality of chain
1	V	520	74% 26%
1	W	520	74% 26%
1	X	520	74% 26%
1	Y	520	74% 26%
1	Z	520	75% 25%
1	a	520	75% 25%
1	b	520	75% 25%
1	c	520	74% 26%
1	d	520	74% 26%
1	e	520	74% 26%
1	f	520	74% 26%
1	g	520	75% 25%
1	h	520	75% 25%
1	i	520	74% 26%
1	j	520	74% 26%
1	k	520	75% 25%
1	l	520	74% 26%
1	m	520	75% 25%
1	n	520	74% 26%
1	o	520	75% 25%
1	p	520	74% 26%
1	q	520	74% 26%
1	r	520	74% 26%
1	s	520	75% 25%
1	t	520	74% 26%

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Mol	Chain	Length	Quality of chain
1	u	520	74% 26%
1	v	520	75% 25%
1	w	520	75% 25%
1	x	520	74% 26%
1	y	520	74% 26%
1	z	520	74% 26%

2 Entry composition (i)

There is only 1 type of molecule in this entry. The entry contains 247980 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 Capsid protein VP1.

Mol	Chain	Residues	Atoms					AltConf	Trace
1	A	520	Total 4133	C 2611	N 714	O 794	S 14	1	0
1	B	520	Total 4133	C 2611	N 714	O 794	S 14	1	0
1	C	520	Total 4133	C 2611	N 714	O 794	S 14	1	0
1	D	520	Total 4133	C 2611	N 714	O 794	S 14	1	0
1	E	520	Total 4133	C 2611	N 714	O 794	S 14	1	0
1	F	520	Total 4133	C 2611	N 714	O 794	S 14	1	0
1	G	520	Total 4133	C 2611	N 714	O 794	S 14	1	0
1	H	520	Total 4133	C 2611	N 714	O 794	S 14	1	0
1	I	520	Total 4133	C 2611	N 714	O 794	S 14	1	0
1	J	520	Total 4133	C 2611	N 714	O 794	S 14	1	0
1	K	520	Total 4133	C 2611	N 714	O 794	S 14	1	0
1	L	520	Total 4133	C 2611	N 714	O 794	S 14	1	0
1	M	520	Total 4133	C 2611	N 714	O 794	S 14	1	0
1	N	520	Total 4133	C 2611	N 714	O 794	S 14	1	0
1	O	520	Total 4133	C 2611	N 714	O 794	S 14	1	0
1	P	520	Total 4133	C 2611	N 714	O 794	S 14	1	0
1	Q	520	Total 4133	C 2611	N 714	O 794	S 14	1	0

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Mol	Chain	Residues	Atoms					AltConf	Trace
1	R	520	Total	C	N	O	S	1	0
			4133	2611	714	794	14		
1	S	520	Total	C	N	O	S	1	0
			4133	2611	714	794	14		
1	T	520	Total	C	N	O	S	1	0
			4133	2611	714	794	14		
1	U	520	Total	C	N	O	S	1	0
			4133	2611	714	794	14		
1	V	520	Total	C	N	O	S	1	0
			4133	2611	714	794	14		
1	W	520	Total	C	N	O	S	1	0
			4133	2611	714	794	14		
1	X	520	Total	C	N	O	S	1	0
			4133	2611	714	794	14		
1	Y	520	Total	C	N	O	S	1	0
			4133	2611	714	794	14		
1	Z	520	Total	C	N	O	S	1	0
			4133	2611	714	794	14		
1	a	520	Total	C	N	O	S	1	0
			4133	2611	714	794	14		
1	b	520	Total	C	N	O	S	1	0
			4133	2611	714	794	14		
1	c	520	Total	C	N	O	S	1	0
			4133	2611	714	794	14		
1	d	520	Total	C	N	O	S	1	0
			4133	2611	714	794	14		
1	e	520	Total	C	N	O	S	1	0
			4133	2611	714	794	14		
1	f	520	Total	C	N	O	S	1	0
			4133	2611	714	794	14		
1	g	520	Total	C	N	O	S	1	0
			4133	2611	714	794	14		
1	h	520	Total	C	N	O	S	1	0
			4133	2611	714	794	14		
1	i	520	Total	C	N	O	S	1	0
			4133	2611	714	794	14		
1	j	520	Total	C	N	O	S	1	0
			4133	2611	714	794	14		
1	k	520	Total	C	N	O	S	1	0
			4133	2611	714	794	14		
1	l	520	Total	C	N	O	S	1	0
			4133	2611	714	794	14		

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Mol	Chain	Residues	Atoms					AltConf	Trace
1	m	520	Total	C	N	O	S	1	0
			4133	2611	714	794	14		
1	n	520	Total	C	N	O	S	1	0
			4133	2611	714	794	14		
1	o	520	Total	C	N	O	S	1	0
			4133	2611	714	794	14		
1	p	520	Total	C	N	O	S	1	0
			4133	2611	714	794	14		
1	q	520	Total	C	N	O	S	1	0
			4133	2611	714	794	14		
1	r	520	Total	C	N	O	S	1	0
			4133	2611	714	794	14		
1	s	520	Total	C	N	O	S	1	0
			4133	2611	714	794	14		
1	t	520	Total	C	N	O	S	1	0
			4133	2611	714	794	14		
1	u	520	Total	C	N	O	S	1	0
			4133	2611	714	794	14		
1	v	520	Total	C	N	O	S	1	0
			4133	2611	714	794	14		
1	w	520	Total	C	N	O	S	1	0
			4133	2611	714	794	14		
1	x	520	Total	C	N	O	S	1	0
			4133	2611	714	794	14		
1	y	520	Total	C	N	O	S	1	0
			4133	2611	714	794	14		
1	z	520	Total	C	N	O	S	1	0
			4133	2611	714	794	14		
1	1	520	Total	C	N	O	S	1	0
			4133	2611	714	794	14		
1	2	520	Total	C	N	O	S	1	0
			4133	2611	714	794	14		
1	3	520	Total	C	N	O	S	1	0
			4133	2611	714	794	14		
1	4	520	Total	C	N	O	S	1	0
			4133	2611	714	794	14		
1	5	520	Total	C	N	O	S	1	0
			4133	2611	714	794	14		
1	6	520	Total	C	N	O	S	1	0
			4133	2611	714	794	14		
1	7	520	Total	C	N	O	S	1	0
			4133	2611	714	794	14		

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Mol	Chain	Residues	Atoms					AltConf	Trace
1	8	520	Total	C	N	O	S	1	0
			4133	2611	714	794	14		

There are 180 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
A	365	LEU	PRO	conflict	UNP Q6JC62
A	406	LEU	ARG	conflict	UNP Q6JC62
A	720	ASP	GLU	conflict	UNP Q6JC62
B	365	LEU	PRO	conflict	UNP Q6JC62
B	406	LEU	ARG	conflict	UNP Q6JC62
B	720	ASP	GLU	conflict	UNP Q6JC62
C	365	LEU	PRO	conflict	UNP Q6JC62
C	406	LEU	ARG	conflict	UNP Q6JC62
C	720	ASP	GLU	conflict	UNP Q6JC62
D	365	LEU	PRO	conflict	UNP Q6JC62
D	406	LEU	ARG	conflict	UNP Q6JC62
D	720	ASP	GLU	conflict	UNP Q6JC62
E	365	LEU	PRO	conflict	UNP Q6JC62
E	406	LEU	ARG	conflict	UNP Q6JC62
E	720	ASP	GLU	conflict	UNP Q6JC62
F	365	LEU	PRO	conflict	UNP Q6JC62
F	406	LEU	ARG	conflict	UNP Q6JC62
F	720	ASP	GLU	conflict	UNP Q6JC62
G	365	LEU	PRO	conflict	UNP Q6JC62
G	406	LEU	ARG	conflict	UNP Q6JC62
G	720	ASP	GLU	conflict	UNP Q6JC62
H	365	LEU	PRO	conflict	UNP Q6JC62
H	406	LEU	ARG	conflict	UNP Q6JC62
H	720	ASP	GLU	conflict	UNP Q6JC62
I	365	LEU	PRO	conflict	UNP Q6JC62
I	406	LEU	ARG	conflict	UNP Q6JC62
I	720	ASP	GLU	conflict	UNP Q6JC62
J	365	LEU	PRO	conflict	UNP Q6JC62
J	406	LEU	ARG	conflict	UNP Q6JC62
J	720	ASP	GLU	conflict	UNP Q6JC62
K	365	LEU	PRO	conflict	UNP Q6JC62
K	406	LEU	ARG	conflict	UNP Q6JC62
K	720	ASP	GLU	conflict	UNP Q6JC62
L	365	LEU	PRO	conflict	UNP Q6JC62
L	406	LEU	ARG	conflict	UNP Q6JC62
L	720	ASP	GLU	conflict	UNP Q6JC62

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Chain	Residue	Modelled	Actual	Comment	Reference
M	365	LEU	PRO	conflict	UNP Q6JC62
M	406	LEU	ARG	conflict	UNP Q6JC62
M	720	ASP	GLU	conflict	UNP Q6JC62
N	365	LEU	PRO	conflict	UNP Q6JC62
N	406	LEU	ARG	conflict	UNP Q6JC62
N	720	ASP	GLU	conflict	UNP Q6JC62
O	365	LEU	PRO	conflict	UNP Q6JC62
O	406	LEU	ARG	conflict	UNP Q6JC62
O	720	ASP	GLU	conflict	UNP Q6JC62
P	365	LEU	PRO	conflict	UNP Q6JC62
P	406	LEU	ARG	conflict	UNP Q6JC62
P	720	ASP	GLU	conflict	UNP Q6JC62
Q	365	LEU	PRO	conflict	UNP Q6JC62
Q	406	LEU	ARG	conflict	UNP Q6JC62
Q	720	ASP	GLU	conflict	UNP Q6JC62
R	365	LEU	PRO	conflict	UNP Q6JC62
R	406	LEU	ARG	conflict	UNP Q6JC62
R	720	ASP	GLU	conflict	UNP Q6JC62
S	365	LEU	PRO	conflict	UNP Q6JC62
S	406	LEU	ARG	conflict	UNP Q6JC62
S	720	ASP	GLU	conflict	UNP Q6JC62
T	365	LEU	PRO	conflict	UNP Q6JC62
T	406	LEU	ARG	conflict	UNP Q6JC62
T	720	ASP	GLU	conflict	UNP Q6JC62
U	365	LEU	PRO	conflict	UNP Q6JC62
U	406	LEU	ARG	conflict	UNP Q6JC62
U	720	ASP	GLU	conflict	UNP Q6JC62
V	365	LEU	PRO	conflict	UNP Q6JC62
V	406	LEU	ARG	conflict	UNP Q6JC62
V	720	ASP	GLU	conflict	UNP Q6JC62
W	365	LEU	PRO	conflict	UNP Q6JC62
W	406	LEU	ARG	conflict	UNP Q6JC62
W	720	ASP	GLU	conflict	UNP Q6JC62
X	365	LEU	PRO	conflict	UNP Q6JC62
X	406	LEU	ARG	conflict	UNP Q6JC62
X	720	ASP	GLU	conflict	UNP Q6JC62
Y	365	LEU	PRO	conflict	UNP Q6JC62
Y	406	LEU	ARG	conflict	UNP Q6JC62
Y	720	ASP	GLU	conflict	UNP Q6JC62
Z	365	LEU	PRO	conflict	UNP Q6JC62
Z	406	LEU	ARG	conflict	UNP Q6JC62
Z	720	ASP	GLU	conflict	UNP Q6JC62

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Chain	Residue	Modelled	Actual	Comment	Reference
a	365	LEU	PRO	conflict	UNP Q6JC62
a	406	LEU	ARG	conflict	UNP Q6JC62
a	720	ASP	GLU	conflict	UNP Q6JC62
b	365	LEU	PRO	conflict	UNP Q6JC62
b	406	LEU	ARG	conflict	UNP Q6JC62
b	720	ASP	GLU	conflict	UNP Q6JC62
c	365	LEU	PRO	conflict	UNP Q6JC62
c	406	LEU	ARG	conflict	UNP Q6JC62
c	720	ASP	GLU	conflict	UNP Q6JC62
d	365	LEU	PRO	conflict	UNP Q6JC62
d	406	LEU	ARG	conflict	UNP Q6JC62
d	720	ASP	GLU	conflict	UNP Q6JC62
e	365	LEU	PRO	conflict	UNP Q6JC62
e	406	LEU	ARG	conflict	UNP Q6JC62
e	720	ASP	GLU	conflict	UNP Q6JC62
f	365	LEU	PRO	conflict	UNP Q6JC62
f	406	LEU	ARG	conflict	UNP Q6JC62
f	720	ASP	GLU	conflict	UNP Q6JC62
g	365	LEU	PRO	conflict	UNP Q6JC62
g	406	LEU	ARG	conflict	UNP Q6JC62
g	720	ASP	GLU	conflict	UNP Q6JC62
h	365	LEU	PRO	conflict	UNP Q6JC62
h	406	LEU	ARG	conflict	UNP Q6JC62
h	720	ASP	GLU	conflict	UNP Q6JC62
i	365	LEU	PRO	conflict	UNP Q6JC62
i	406	LEU	ARG	conflict	UNP Q6JC62
i	720	ASP	GLU	conflict	UNP Q6JC62
j	365	LEU	PRO	conflict	UNP Q6JC62
j	406	LEU	ARG	conflict	UNP Q6JC62
j	720	ASP	GLU	conflict	UNP Q6JC62
k	365	LEU	PRO	conflict	UNP Q6JC62
k	406	LEU	ARG	conflict	UNP Q6JC62
k	720	ASP	GLU	conflict	UNP Q6JC62
l	365	LEU	PRO	conflict	UNP Q6JC62
l	406	LEU	ARG	conflict	UNP Q6JC62
l	720	ASP	GLU	conflict	UNP Q6JC62
m	365	LEU	PRO	conflict	UNP Q6JC62
m	406	LEU	ARG	conflict	UNP Q6JC62
m	720	ASP	GLU	conflict	UNP Q6JC62
n	365	LEU	PRO	conflict	UNP Q6JC62
n	406	LEU	ARG	conflict	UNP Q6JC62
n	720	ASP	GLU	conflict	UNP Q6JC62

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Chain	Residue	Modelled	Actual	Comment	Reference
o	365	LEU	PRO	conflict	UNP Q6JC62
o	406	LEU	ARG	conflict	UNP Q6JC62
o	720	ASP	GLU	conflict	UNP Q6JC62
p	365	LEU	PRO	conflict	UNP Q6JC62
p	406	LEU	ARG	conflict	UNP Q6JC62
p	720	ASP	GLU	conflict	UNP Q6JC62
q	365	LEU	PRO	conflict	UNP Q6JC62
q	406	LEU	ARG	conflict	UNP Q6JC62
q	720	ASP	GLU	conflict	UNP Q6JC62
r	365	LEU	PRO	conflict	UNP Q6JC62
r	406	LEU	ARG	conflict	UNP Q6JC62
r	720	ASP	GLU	conflict	UNP Q6JC62
s	365	LEU	PRO	conflict	UNP Q6JC62
s	406	LEU	ARG	conflict	UNP Q6JC62
s	720	ASP	GLU	conflict	UNP Q6JC62
t	365	LEU	PRO	conflict	UNP Q6JC62
t	406	LEU	ARG	conflict	UNP Q6JC62
t	720	ASP	GLU	conflict	UNP Q6JC62
u	365	LEU	PRO	conflict	UNP Q6JC62
u	406	LEU	ARG	conflict	UNP Q6JC62
u	720	ASP	GLU	conflict	UNP Q6JC62
v	365	LEU	PRO	conflict	UNP Q6JC62
v	406	LEU	ARG	conflict	UNP Q6JC62
v	720	ASP	GLU	conflict	UNP Q6JC62
w	365	LEU	PRO	conflict	UNP Q6JC62
w	406	LEU	ARG	conflict	UNP Q6JC62
w	720	ASP	GLU	conflict	UNP Q6JC62
x	365	LEU	PRO	conflict	UNP Q6JC62
x	406	LEU	ARG	conflict	UNP Q6JC62
x	720	ASP	GLU	conflict	UNP Q6JC62
y	365	LEU	PRO	conflict	UNP Q6JC62
y	406	LEU	ARG	conflict	UNP Q6JC62
y	720	ASP	GLU	conflict	UNP Q6JC62
z	365	LEU	PRO	conflict	UNP Q6JC62
z	406	LEU	ARG	conflict	UNP Q6JC62
z	720	ASP	GLU	conflict	UNP Q6JC62
1	365	LEU	PRO	conflict	UNP Q6JC62
1	406	LEU	ARG	conflict	UNP Q6JC62
1	720	ASP	GLU	conflict	UNP Q6JC62
2	365	LEU	PRO	conflict	UNP Q6JC62
2	406	LEU	ARG	conflict	UNP Q6JC62
2	720	ASP	GLU	conflict	UNP Q6JC62

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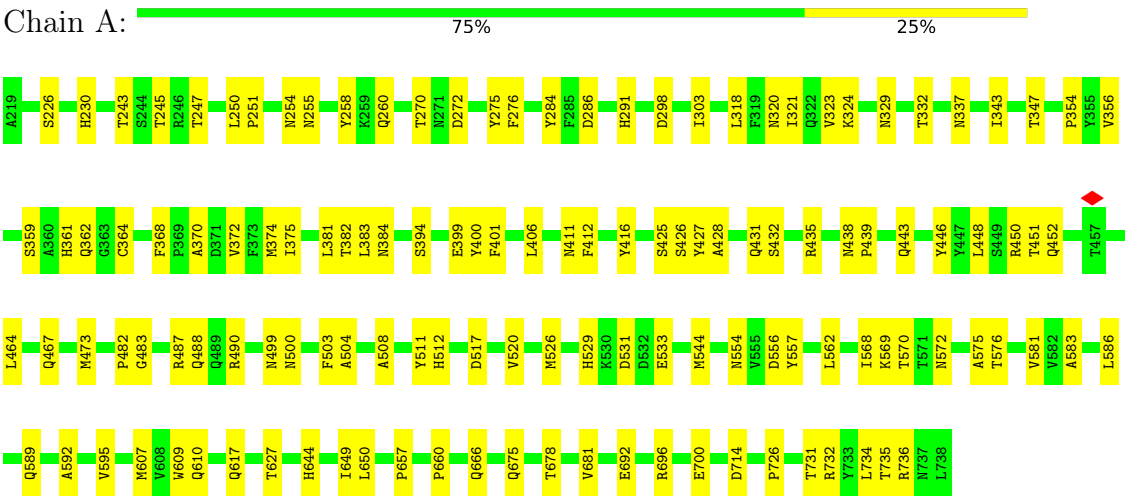
Chain	Residue	Modelled	Actual	Comment	Reference
3	365	LEU	PRO	conflict	UNP Q6JC62
3	406	LEU	ARG	conflict	UNP Q6JC62
3	720	ASP	GLU	conflict	UNP Q6JC62
4	365	LEU	PRO	conflict	UNP Q6JC62
4	406	LEU	ARG	conflict	UNP Q6JC62
4	720	ASP	GLU	conflict	UNP Q6JC62
5	365	LEU	PRO	conflict	UNP Q6JC62
5	406	LEU	ARG	conflict	UNP Q6JC62
5	720	ASP	GLU	conflict	UNP Q6JC62
6	365	LEU	PRO	conflict	UNP Q6JC62
6	406	LEU	ARG	conflict	UNP Q6JC62
6	720	ASP	GLU	conflict	UNP Q6JC62
7	365	LEU	PRO	conflict	UNP Q6JC62
7	406	LEU	ARG	conflict	UNP Q6JC62
7	720	ASP	GLU	conflict	UNP Q6JC62
8	365	LEU	PRO	conflict	UNP Q6JC62
8	406	LEU	ARG	conflict	UNP Q6JC62
8	720	ASP	GLU	conflict	UNP Q6JC62

3 Residue-property plots (i)

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

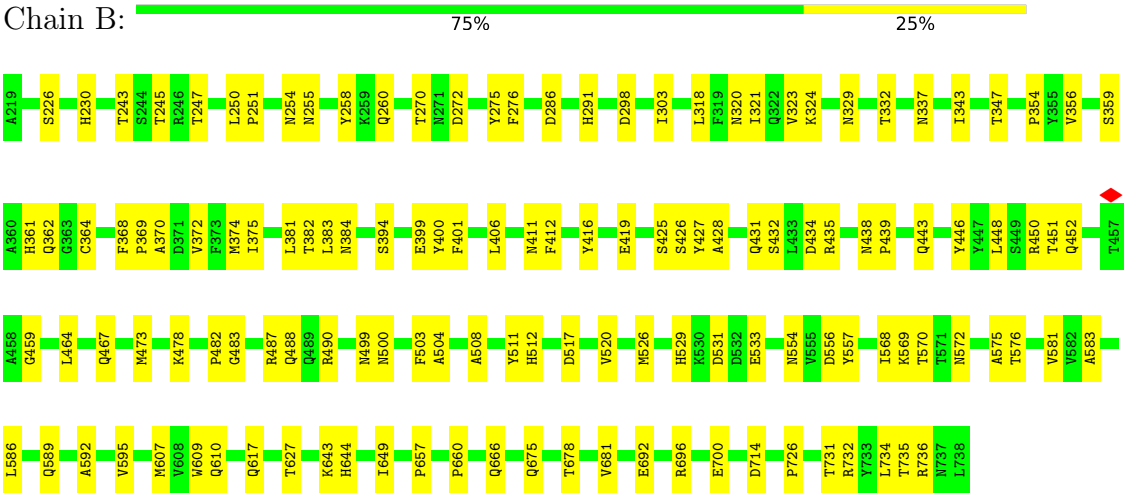
• Molecule 1: Capsid protein VP1

Chain A:



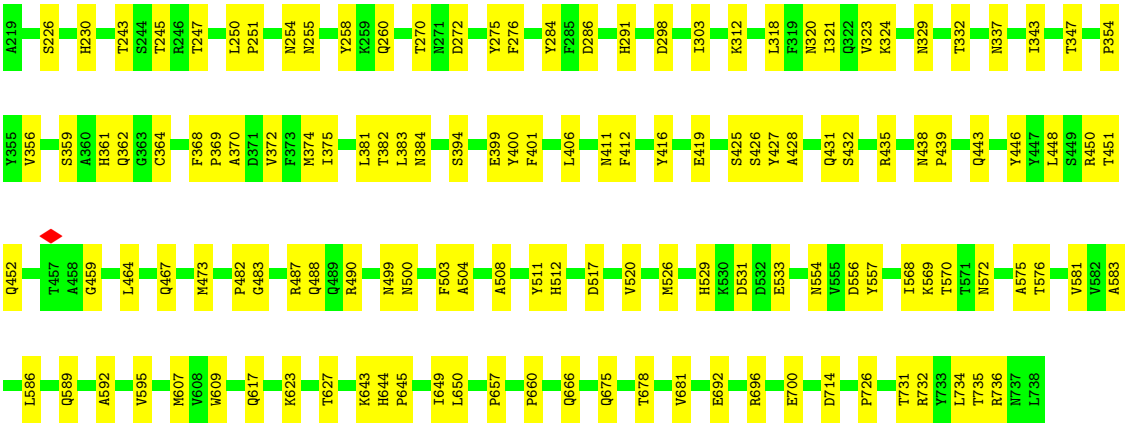
• Molecule 1: Capsid protein VP1

Chain B:



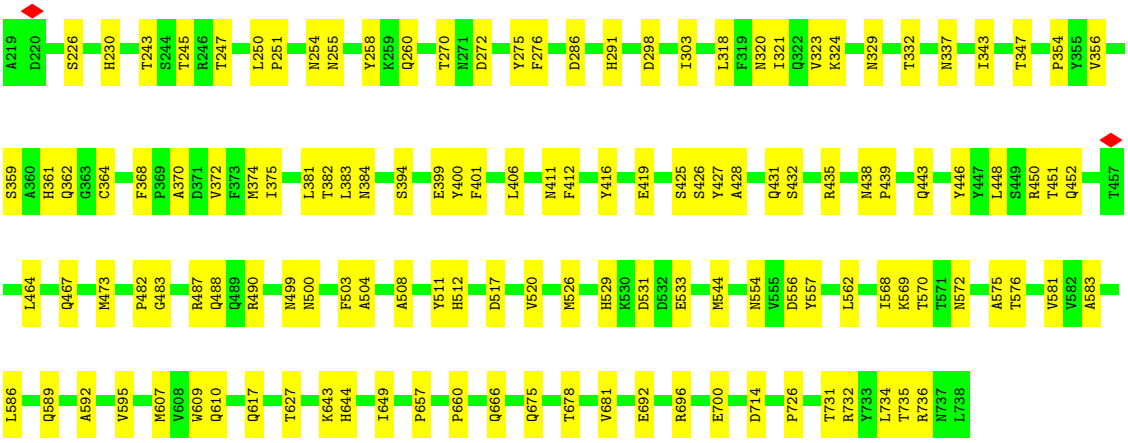
• Molecule 1: Capsid protein VP1

Chain C:



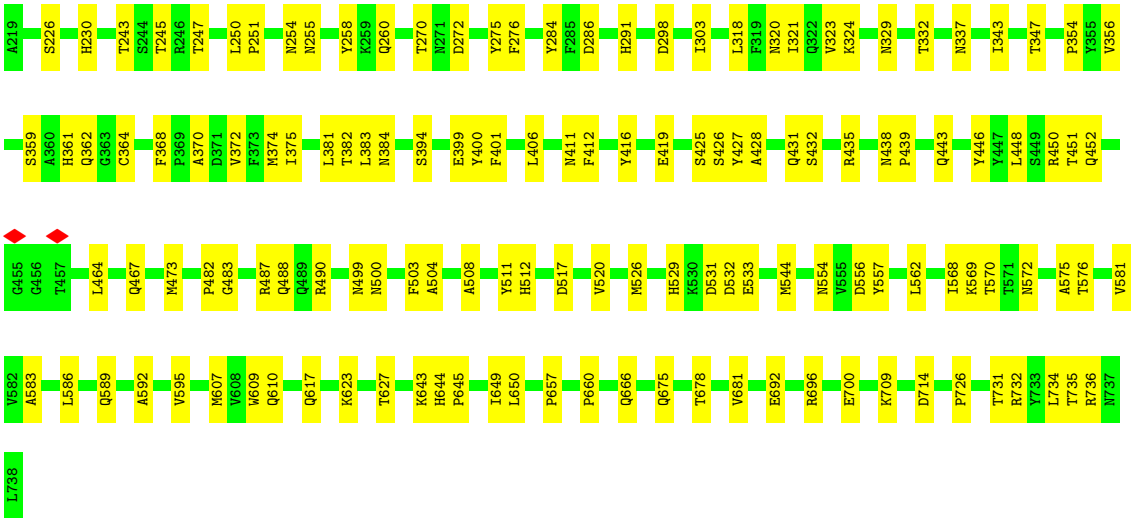
• Molecule 1: Capsid protein VP1

Chain D:



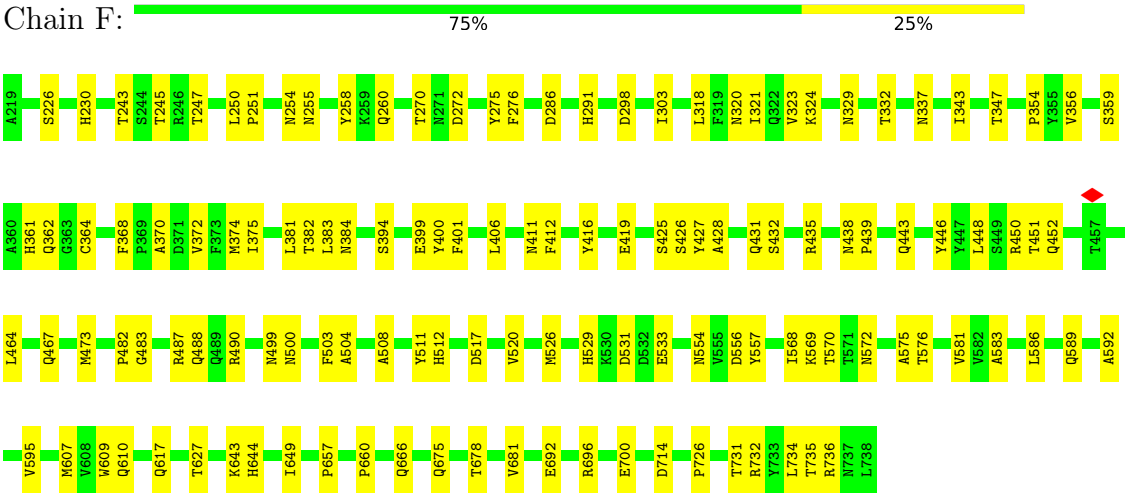
• Molecule 1: Capsid protein VP1

Chain E:



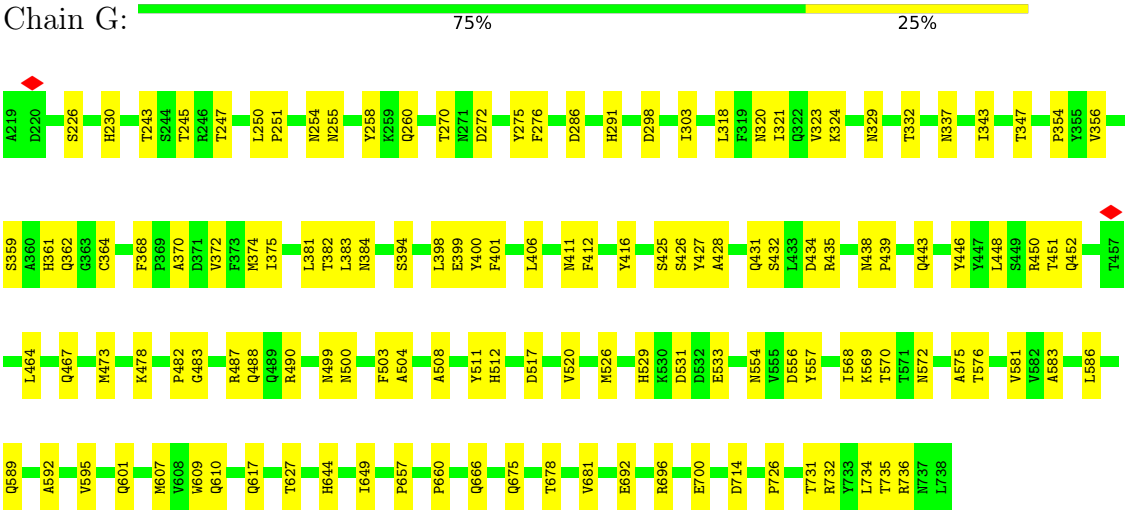
• Molecule 1: Capsid protein VP1

Chain F:



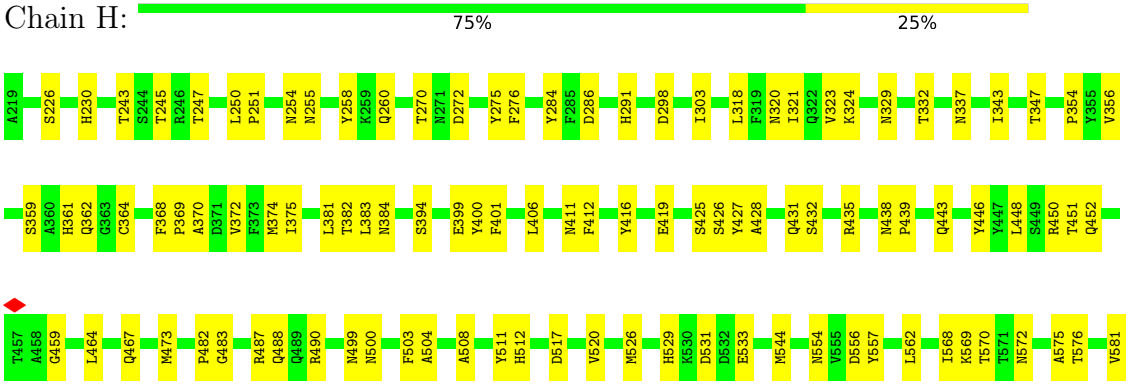
• Molecule 1: Capsid protein VP1

Chain G:



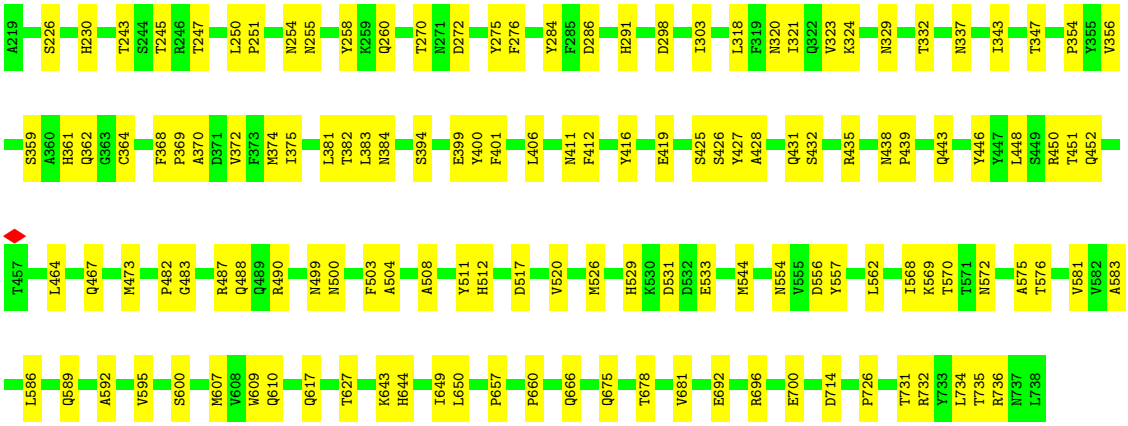
• Molecule 1: Capsid protein VP1

Chain H:



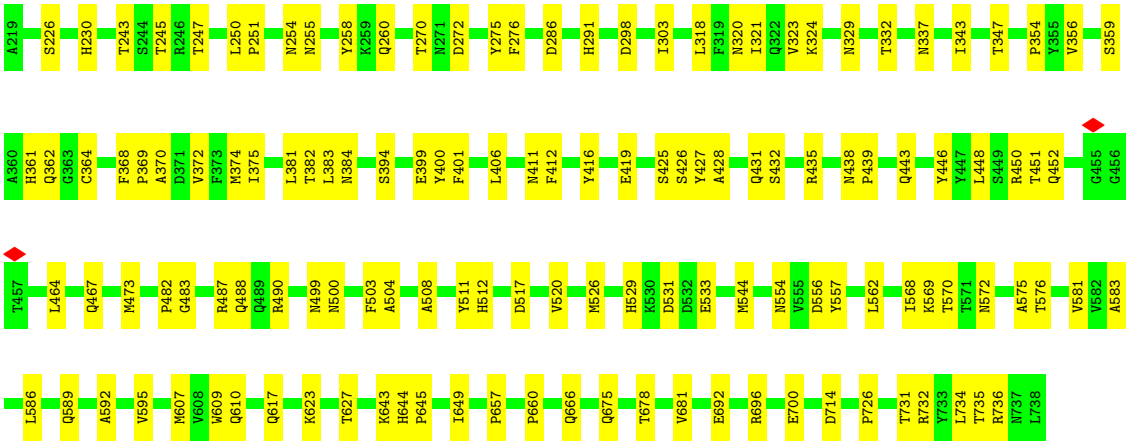
• Molecule 1: Capsid protein VP1

Chain I:



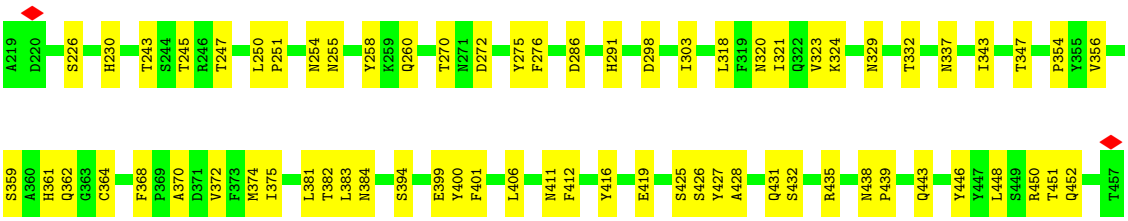
• Molecule 1: Capsid protein VP1

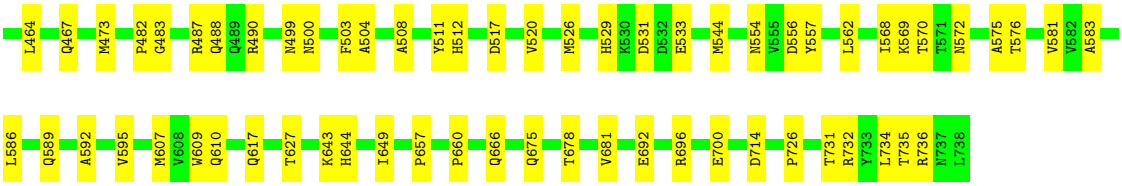
Chain J:



• Molecule 1: Capsid protein VP1

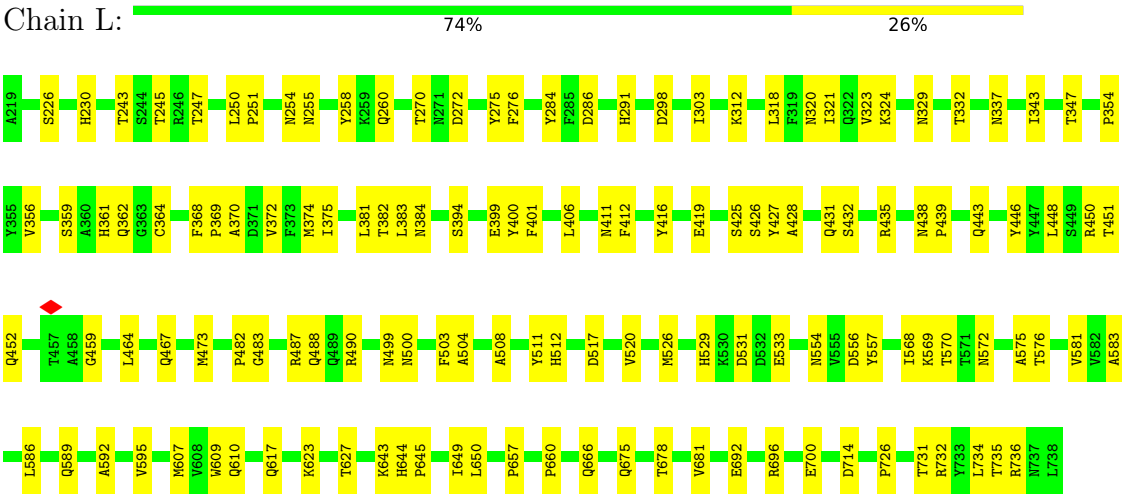
Chain K:





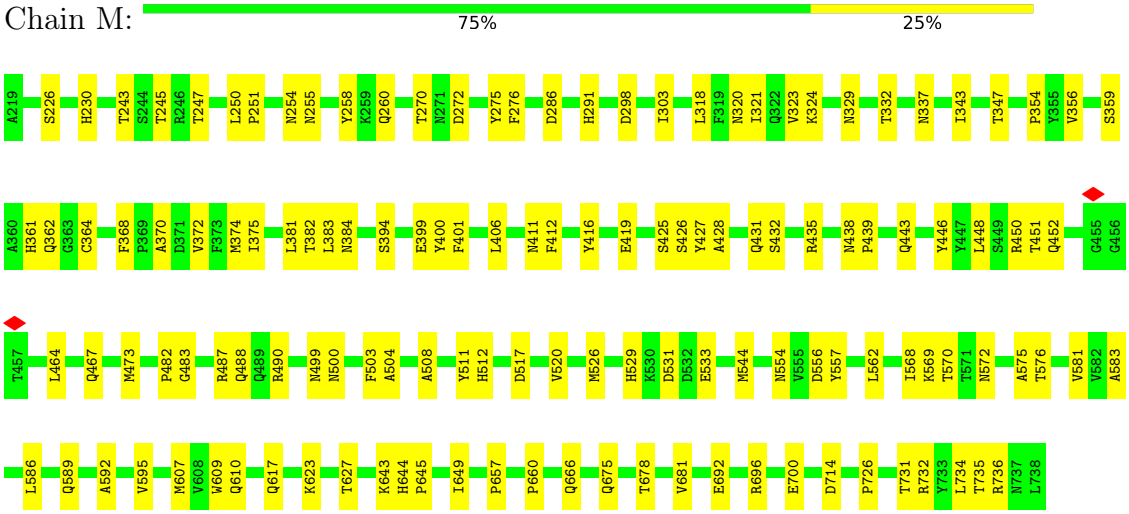
• Molecule 1: Capsid protein VP1

Chain L:



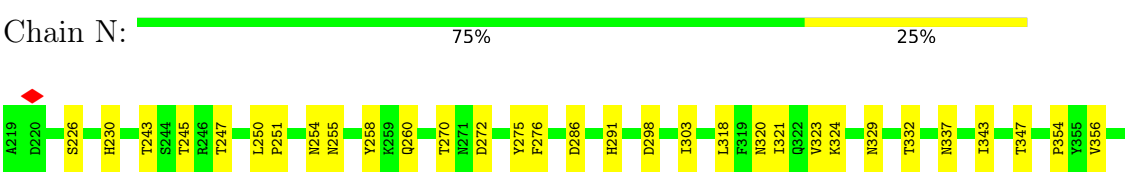
• Molecule 1: Capsid protein VP1

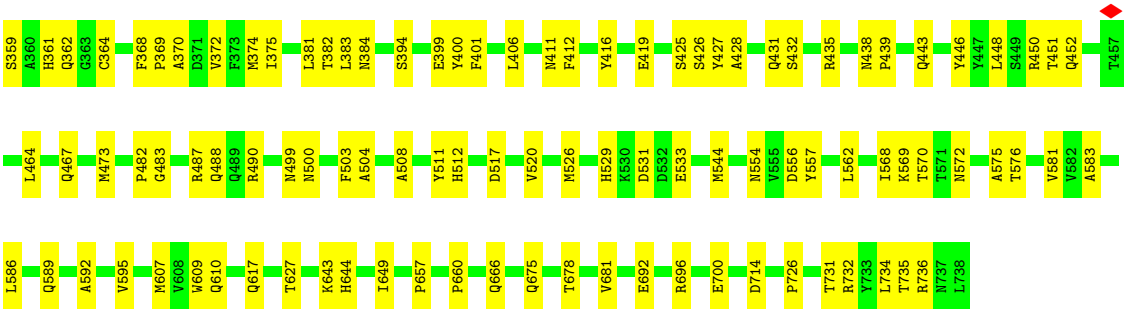
Chain M:



• Molecule 1: Capsid protein VP1

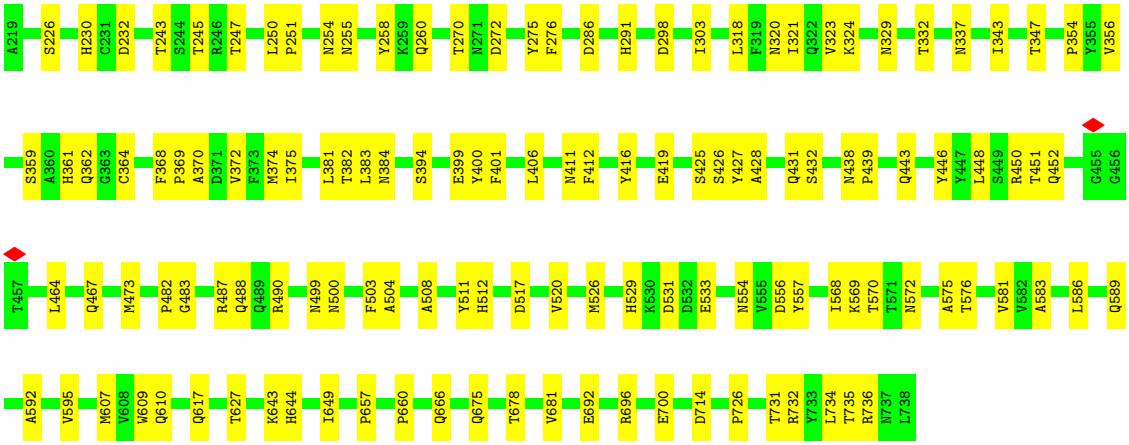
Chain N:





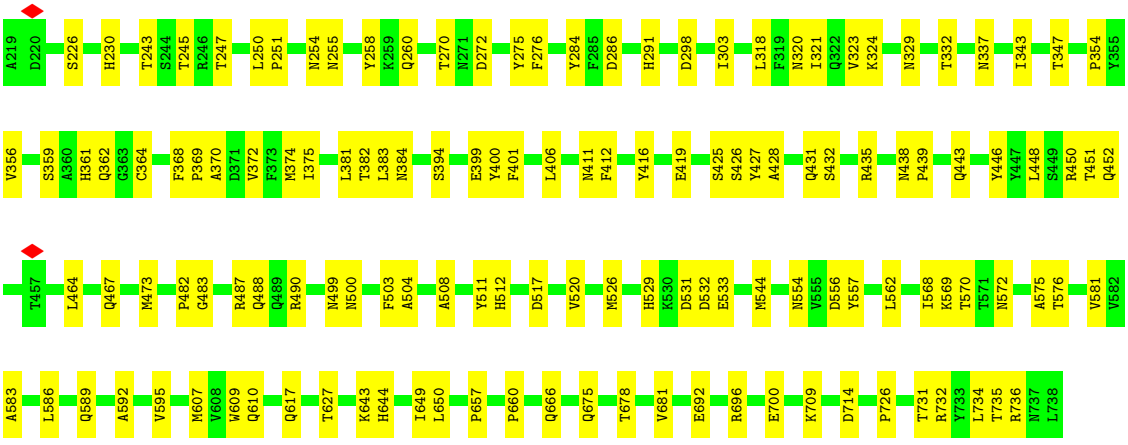
• Molecule 1: Capsid protein VP1

Chain O:



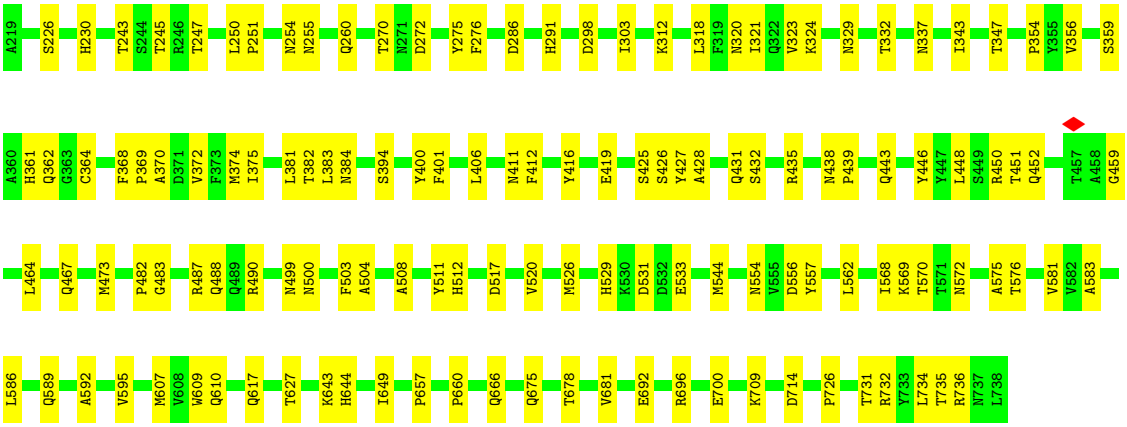
• Molecule 1: Capsid protein VP1

Chain P:



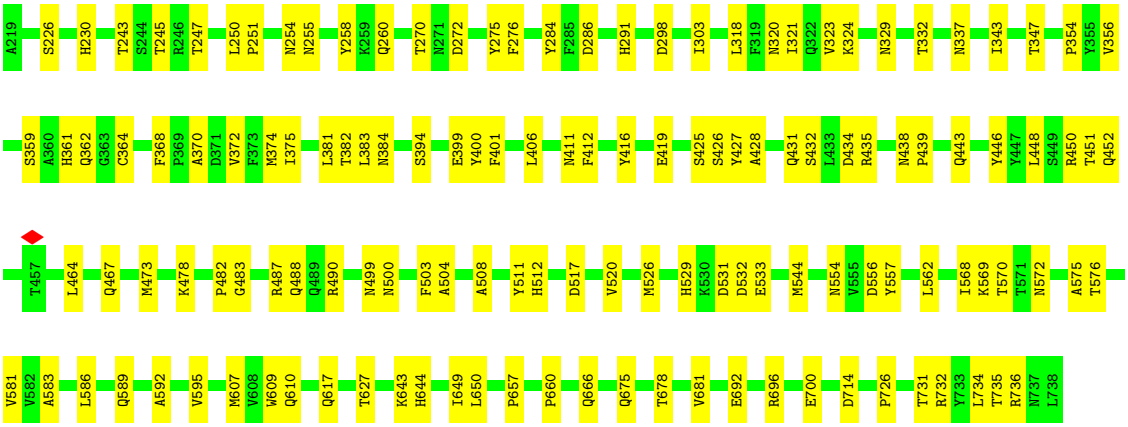
• Molecule 1: Capsid protein VP1

Chain Q:



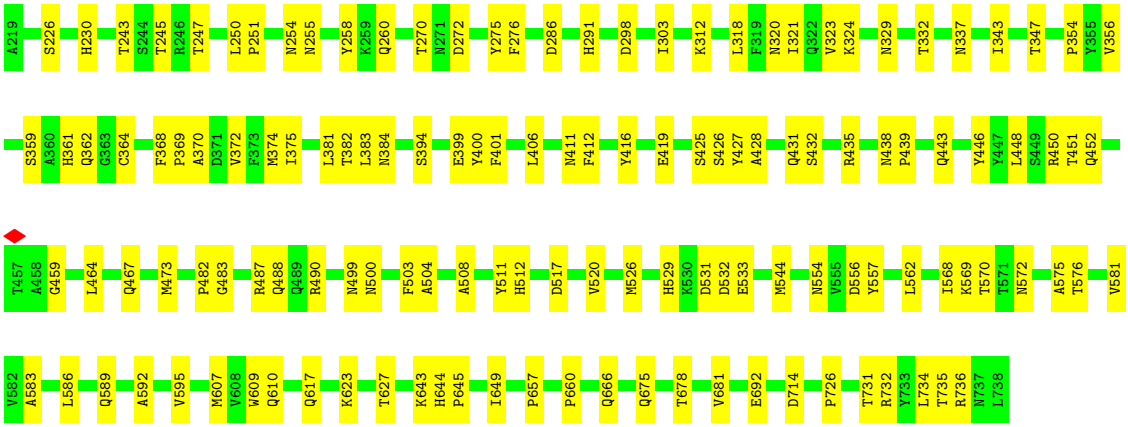
• Molecule 1: Capsid protein VP1

Chain R:



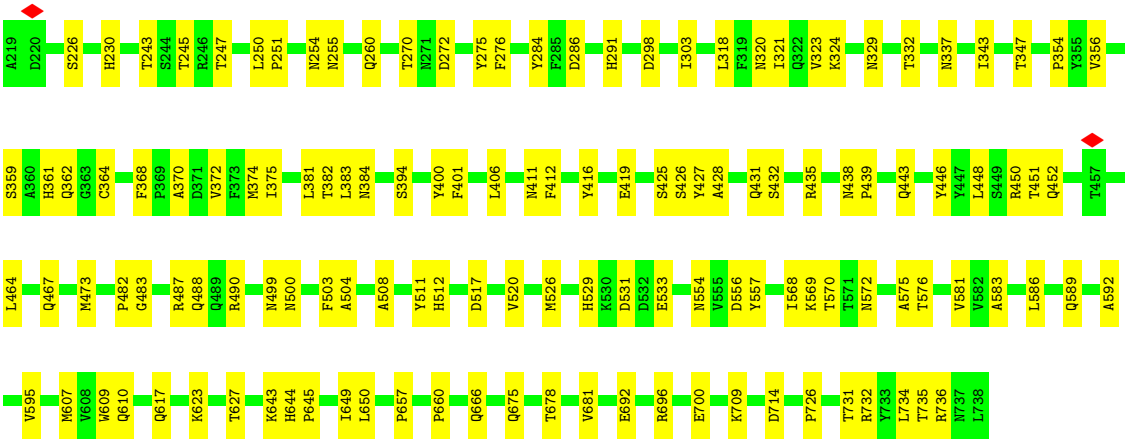
• Molecule 1: Capsid protein VP1

Chain S:



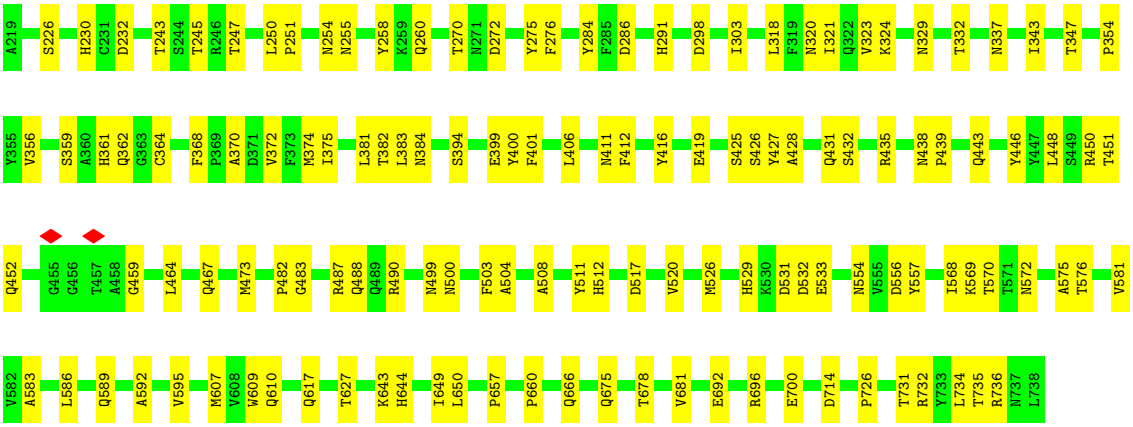
• Molecule 1: Capsid protein VP1

Chain T:



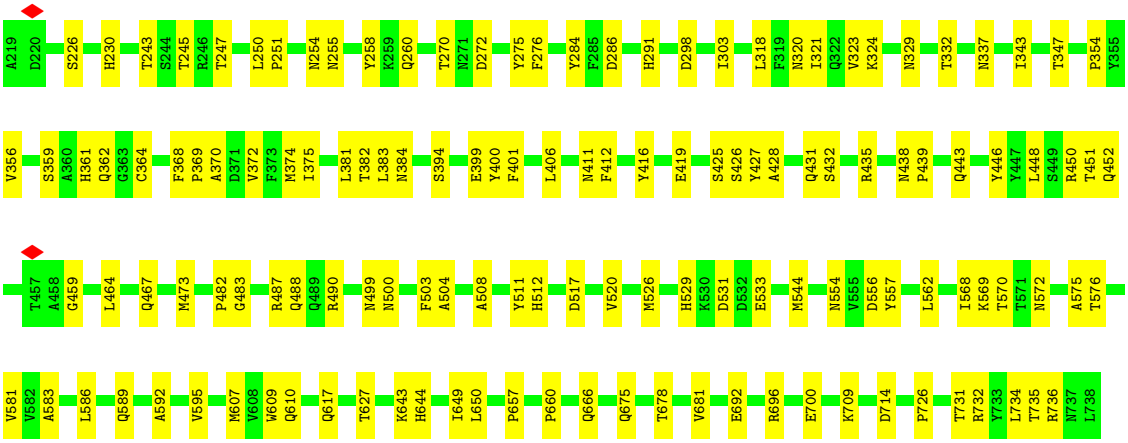
• Molecule 1: Capsid protein VP1

Chain U:



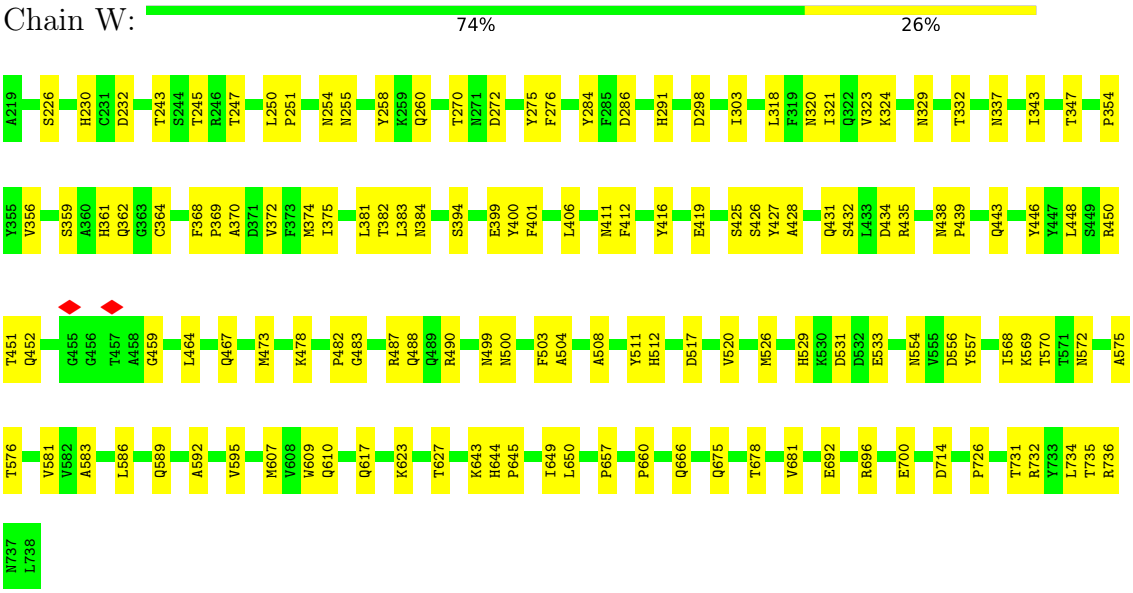
• Molecule 1: Capsid protein VP1

Chain V:



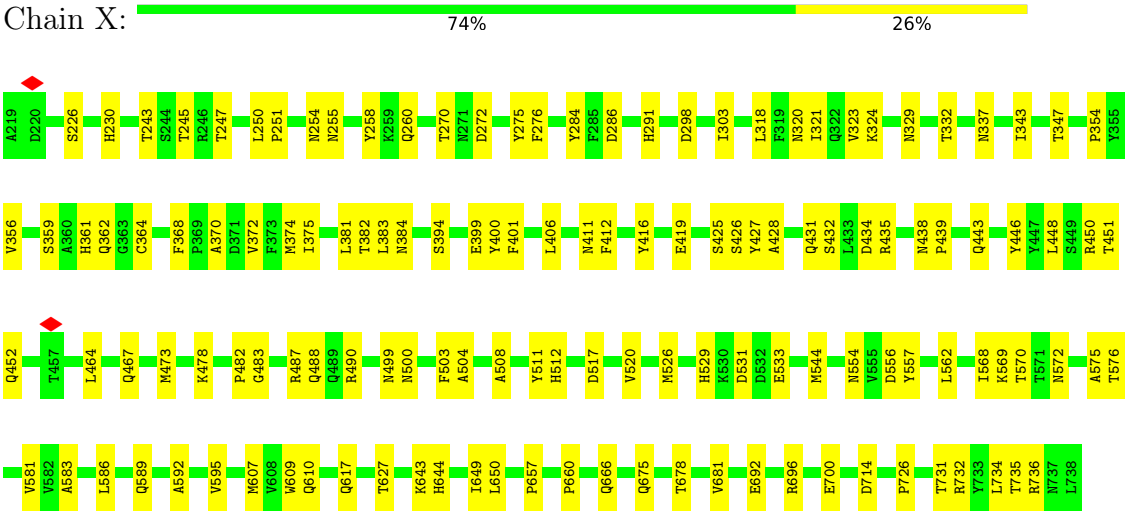
• Molecule 1: Capsid protein VP1

Chain W:



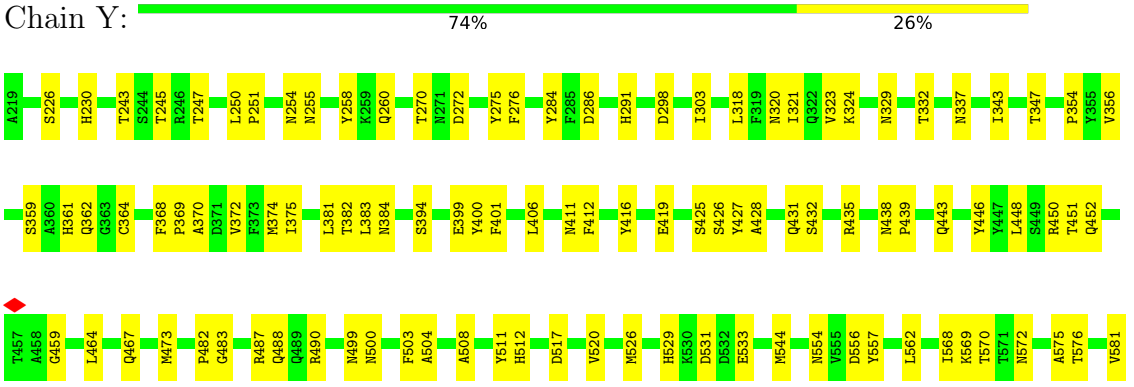
• Molecule 1: Capsid protein VP1

Chain X:



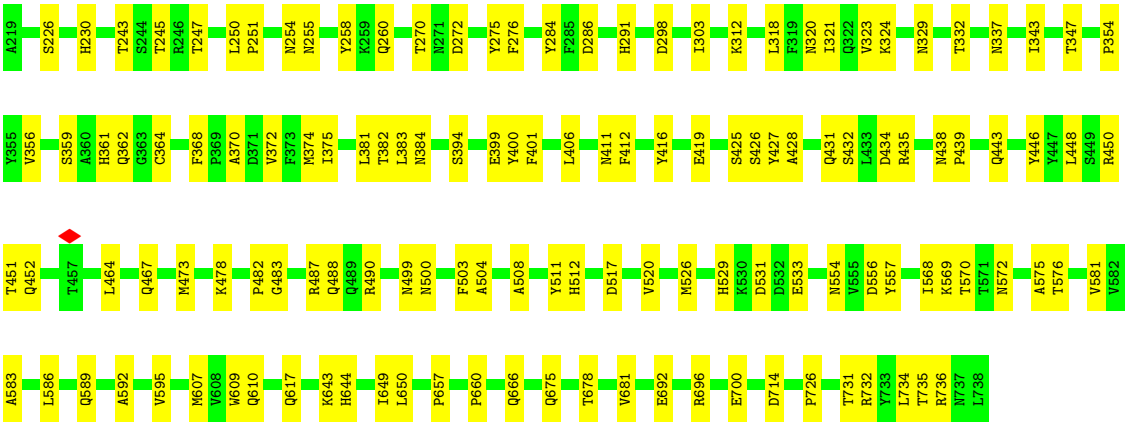
• Molecule 1: Capsid protein VP1

Chain Y:



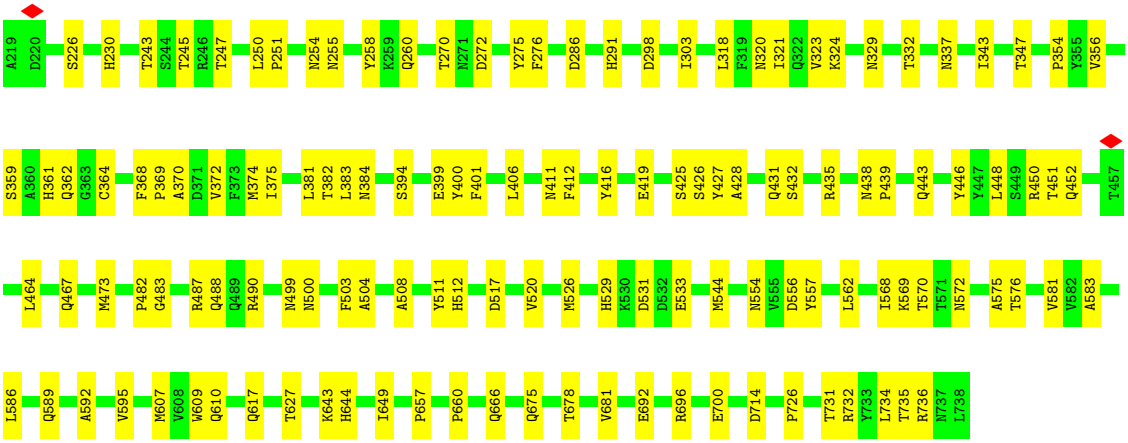
• Molecule 1: Capsid protein VP1

Chain Z:



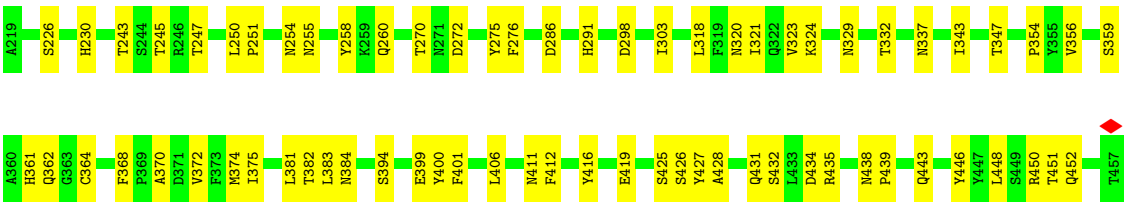
• Molecule 1: Capsid protein VP1

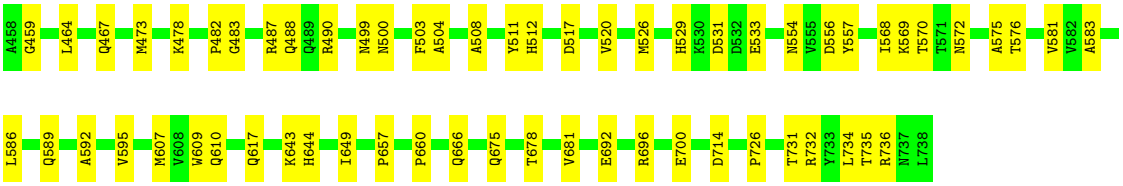
Chain a:



• Molecule 1: Capsid protein VP1

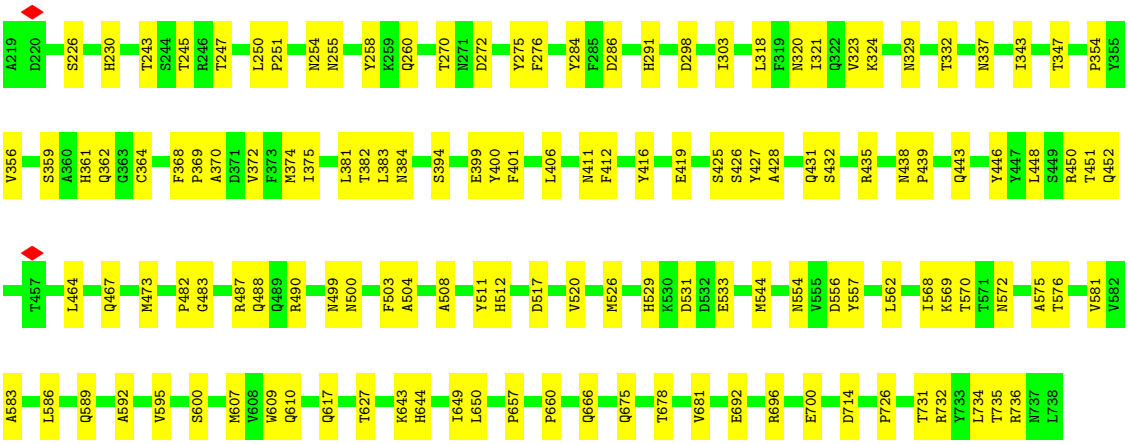
Chain b:





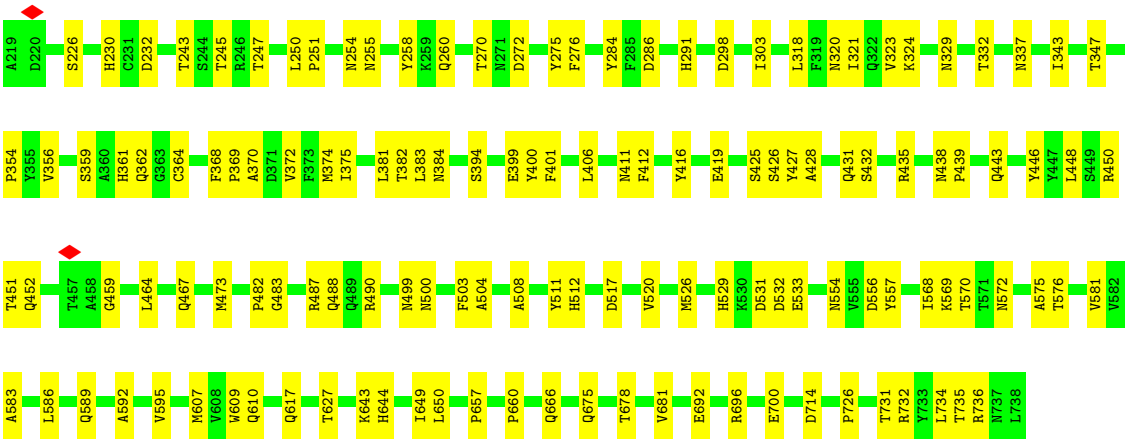
• Molecule 1: Capsid protein VP1

Chain c:



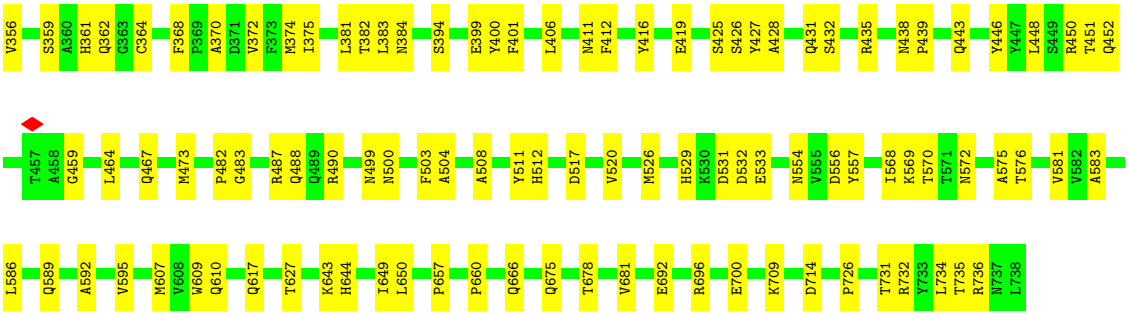
• Molecule 1: Capsid protein VP1

Chain d:



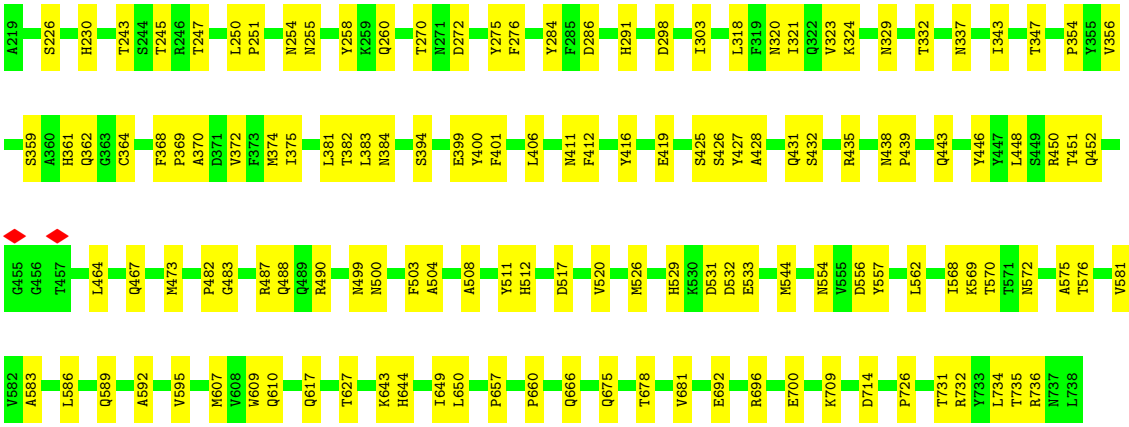
• Molecule 1: Capsid protein VP1

Chain e:



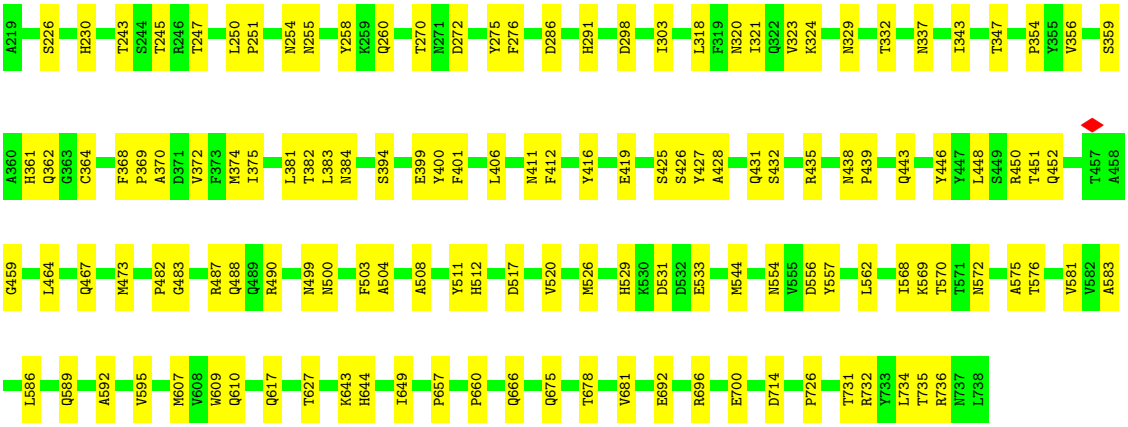
• Molecule 1: Capsid protein VP1

Chain f:



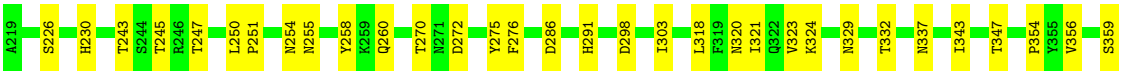
• Molecule 1: Capsid protein VP1

Chain g:



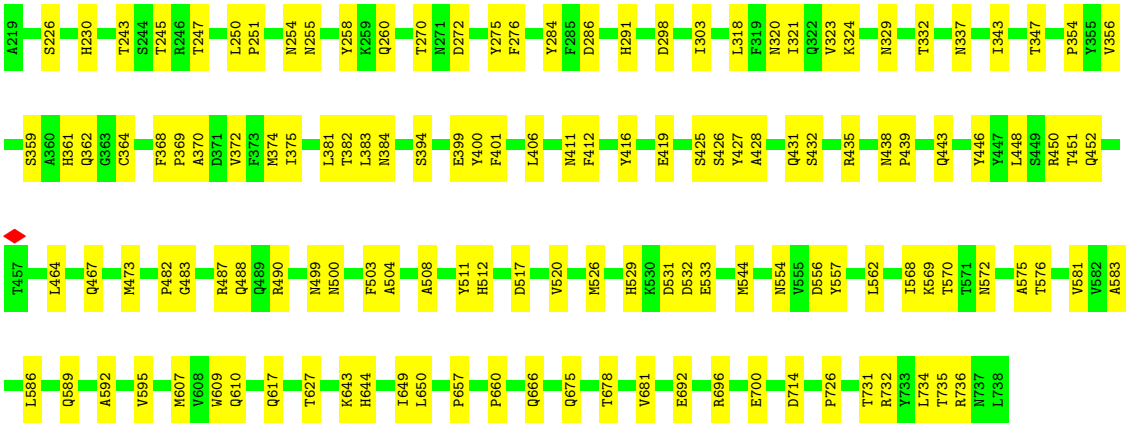
• Molecule 1: Capsid protein VP1

Chain h:



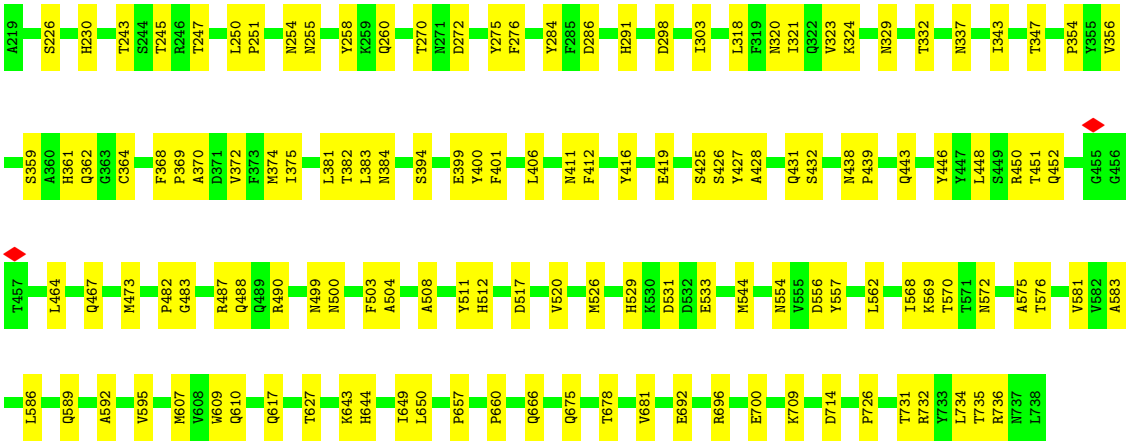
• Molecule 1: Capsid protein VP1

Chain i:



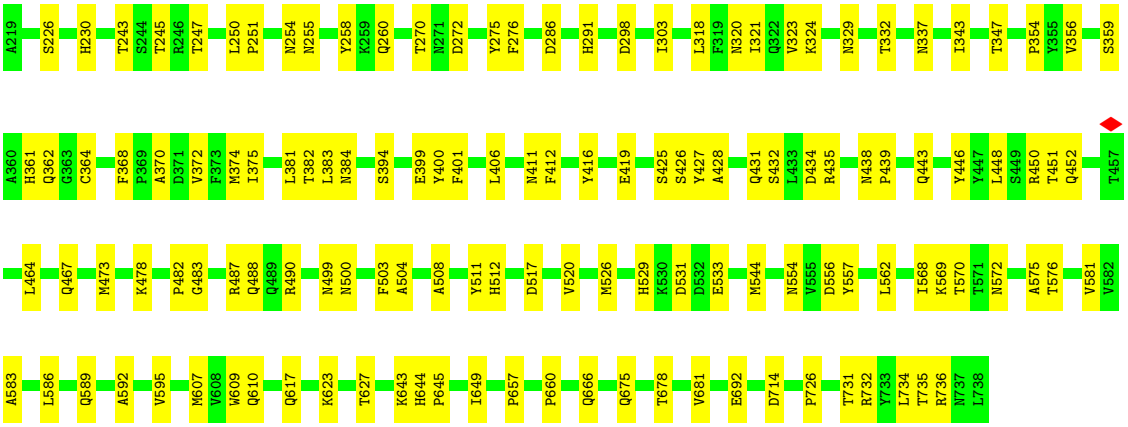
• Molecule 1: Capsid protein VP1

Chain j:



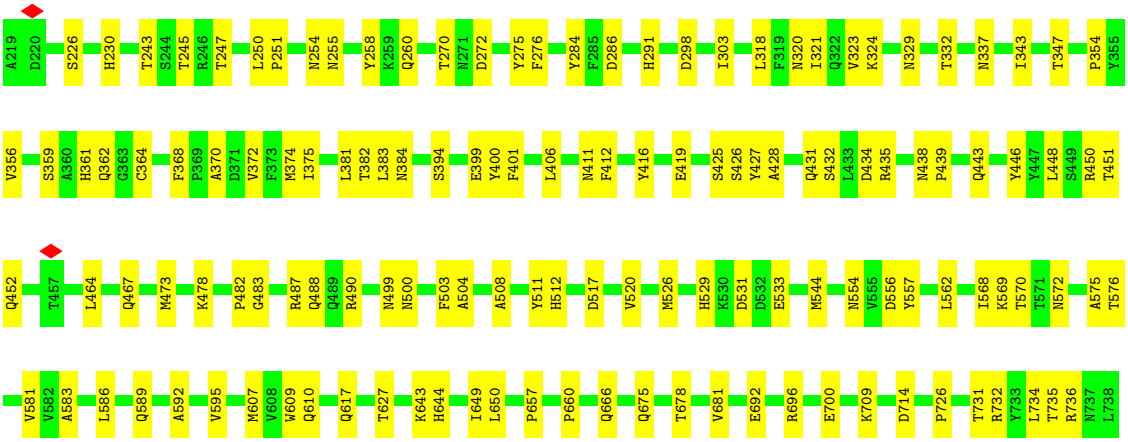
• Molecule 1: Capsid protein VP1

Chain k:



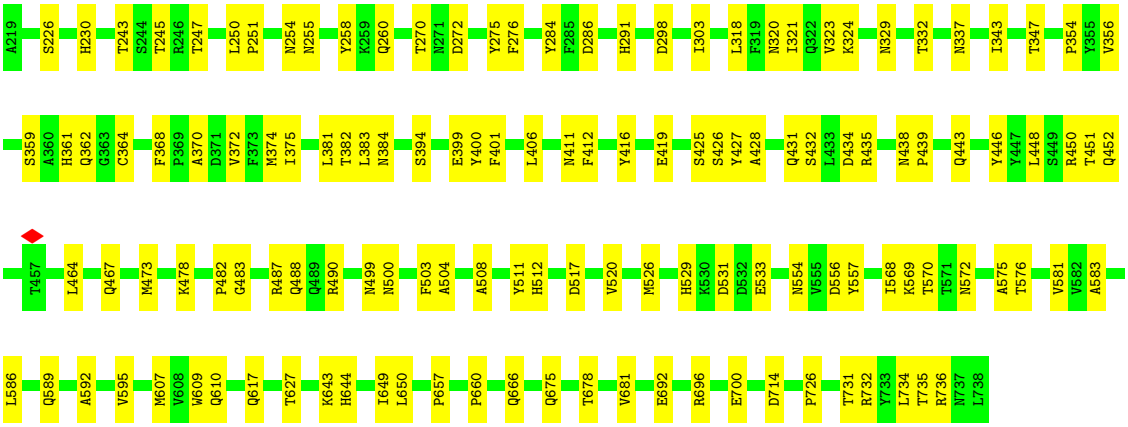
• Molecule 1: Capsid protein VP1

Chain l:



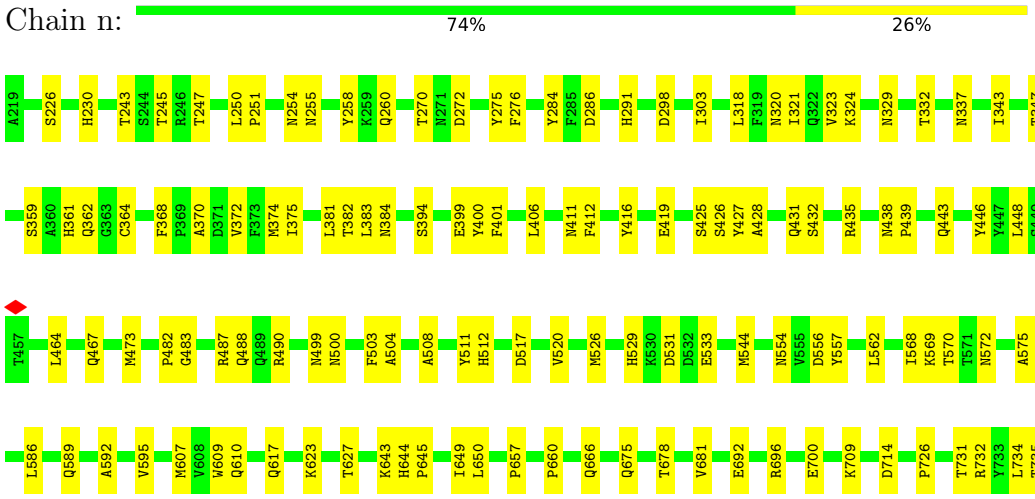
• Molecule 1: Capsid protein VP1

Chain m:



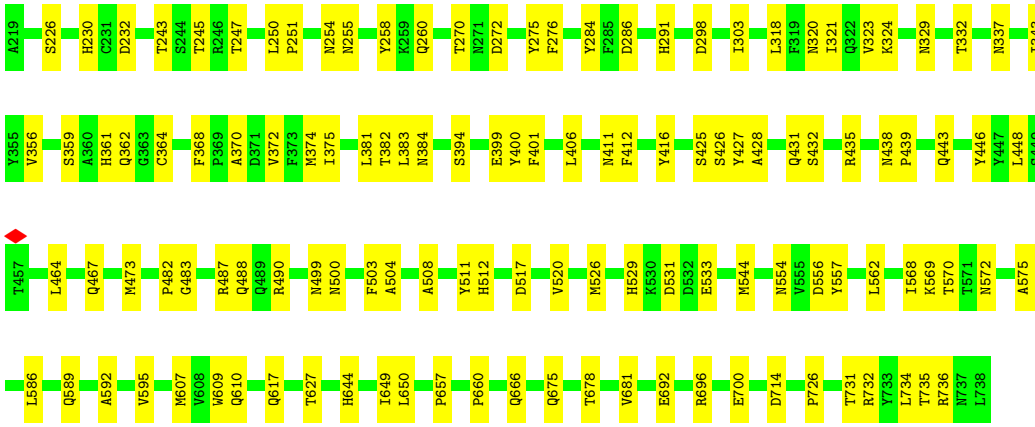
• Molecule 1: Capsid protein VP1

Chain n:



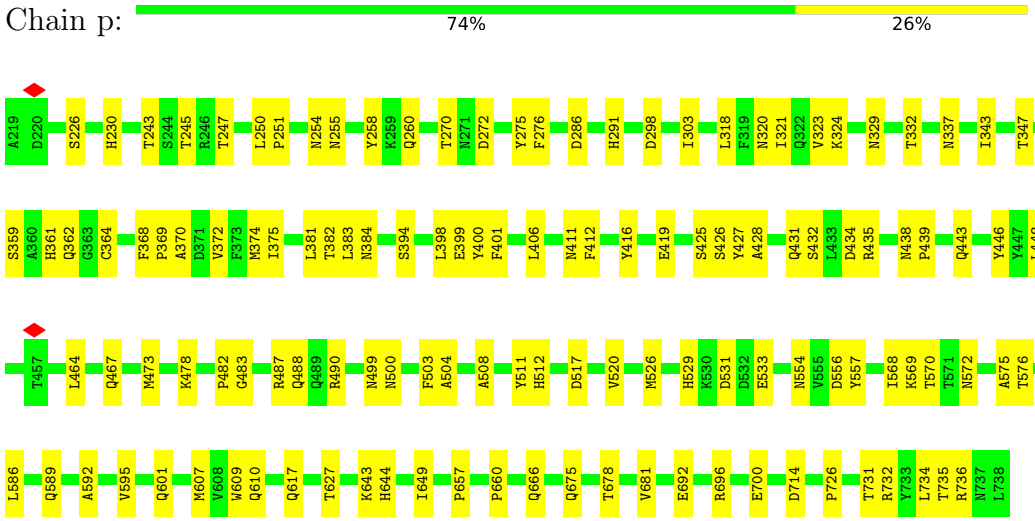
• Molecule 1: Capsid protein VP1

Chain o:



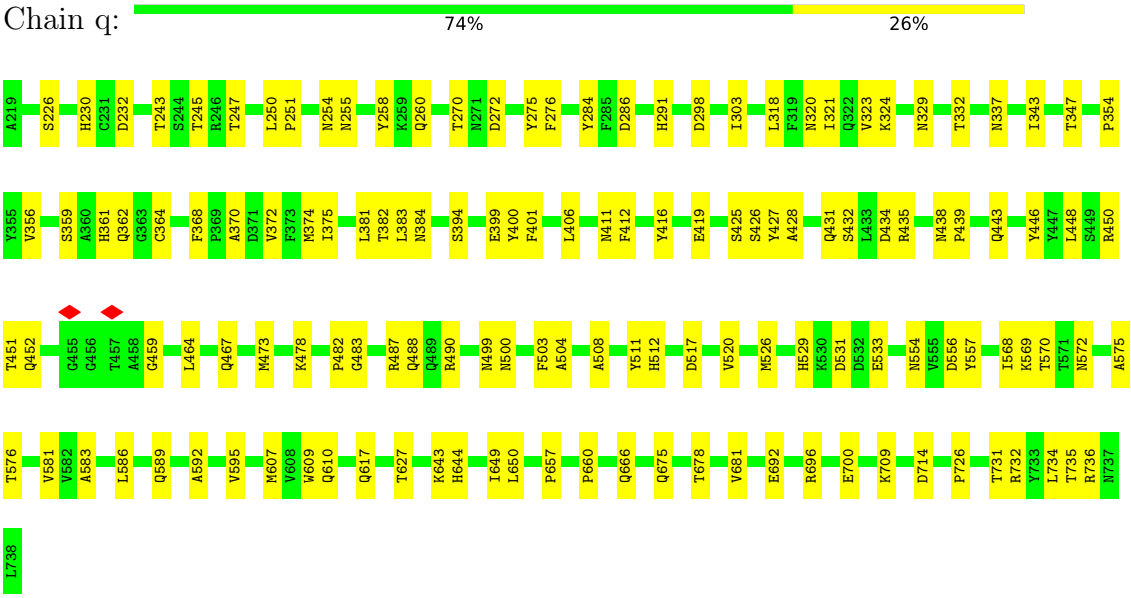
• Molecule 1: Capsid protein VP1

Chain p:



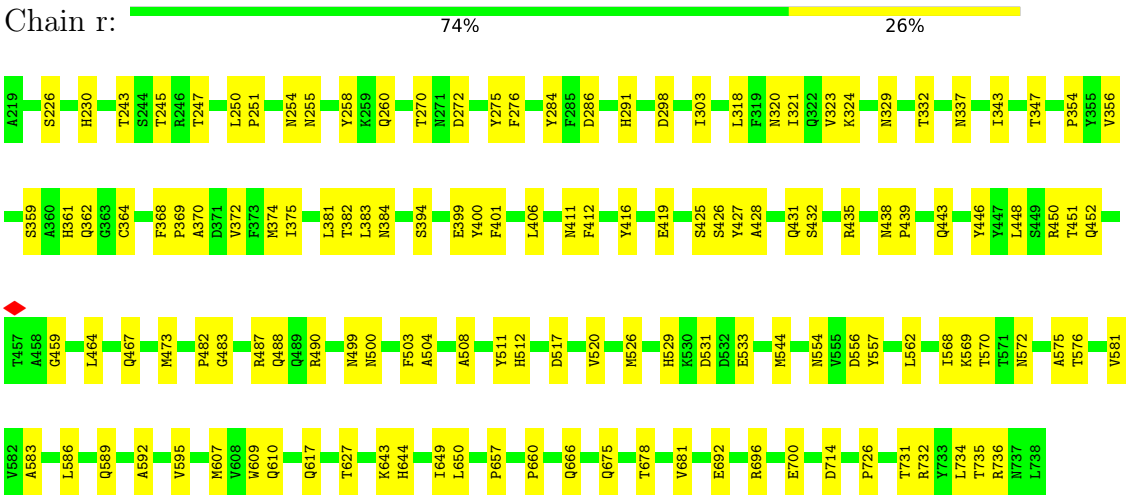
• Molecule 1: Capsid protein VP1

Chain q:



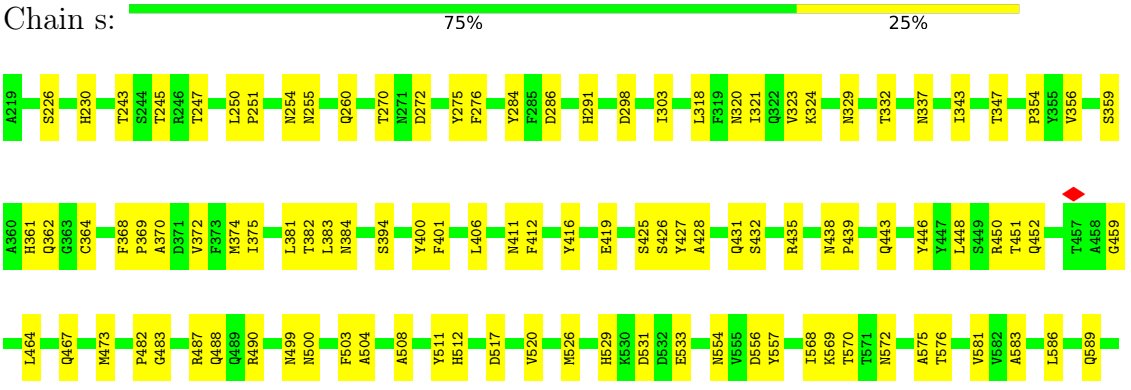
• Molecule 1: Capsid protein VP1

Chain r:



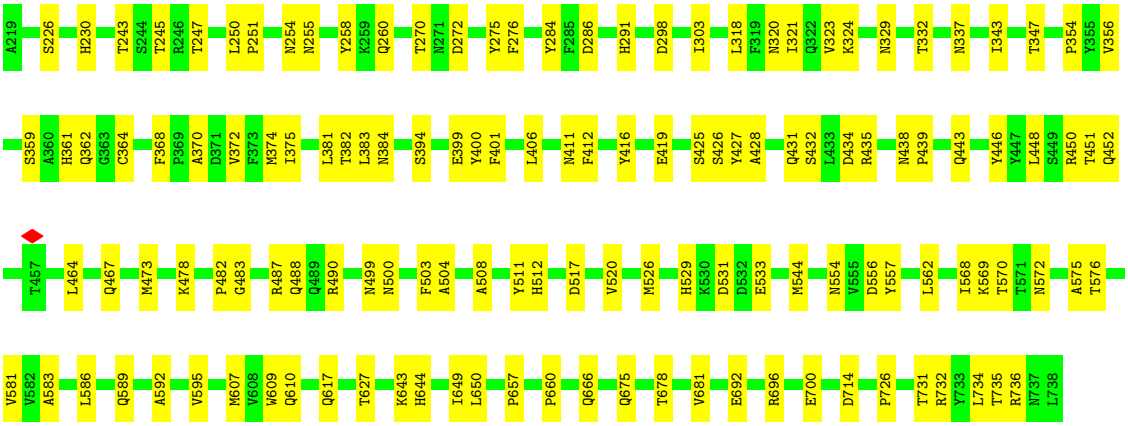
• Molecule 1: Capsid protein VP1

Chain s:



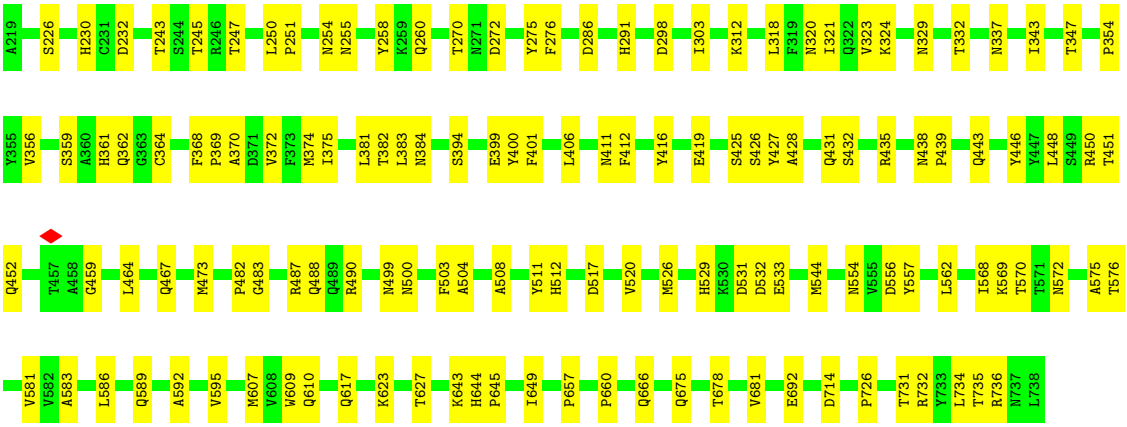
• Molecule 1: Capsid protein VP1

Chain t:



• Molecule 1: Capsid protein VP1

Chain u:

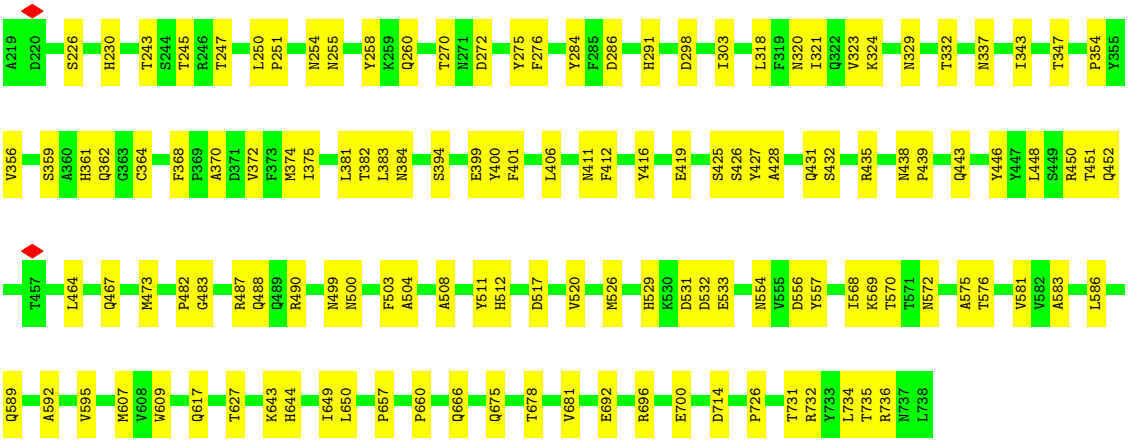


• Molecule 1: Capsid protein VP1

Chain v:

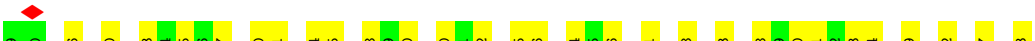
• Molecule 1: Capsid protein VP1

Chain w:



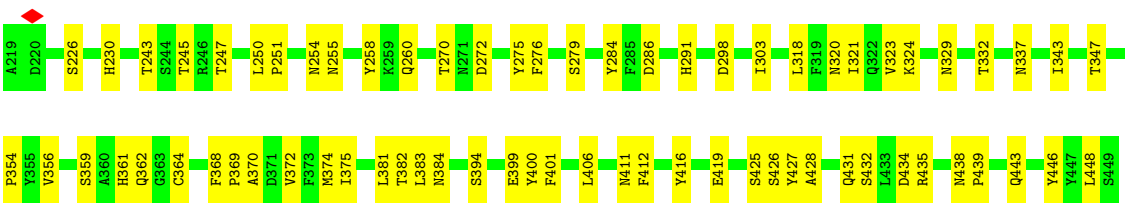
• Molecule 1: Capsid protein VP1

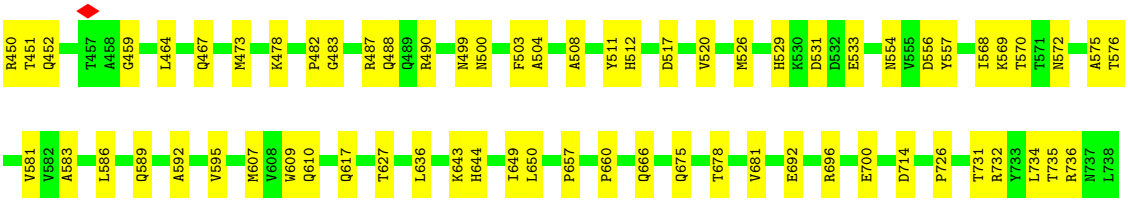
Chain x:



• Molecule 1: Capsid protein VP1

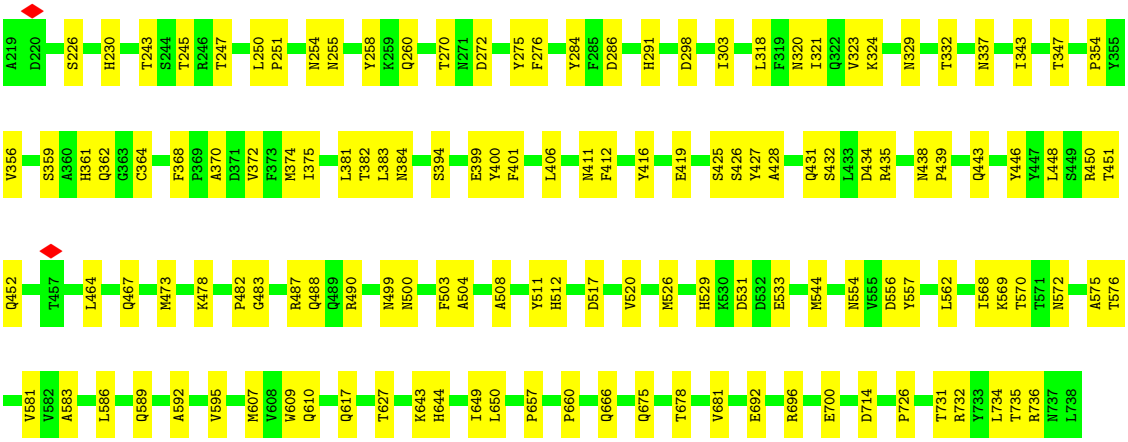
Chain y:





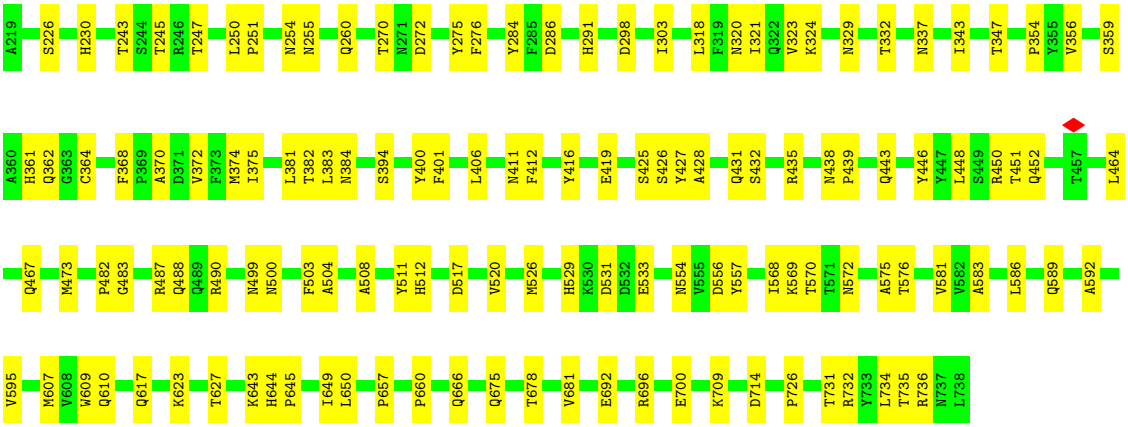
• Molecule 1: Capsid protein VP1

Chain z:



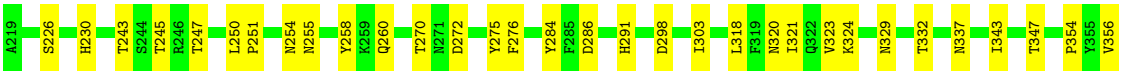
• Molecule 1: Capsid protein VP1

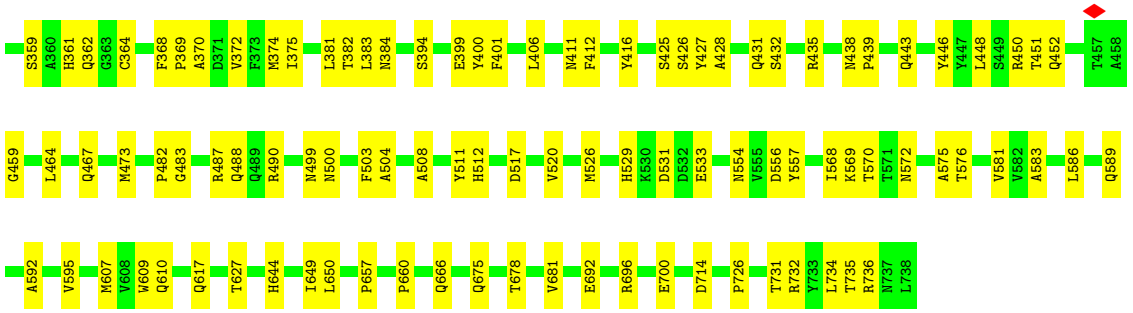
Chain 1:



• Molecule 1: Capsid protein VP1

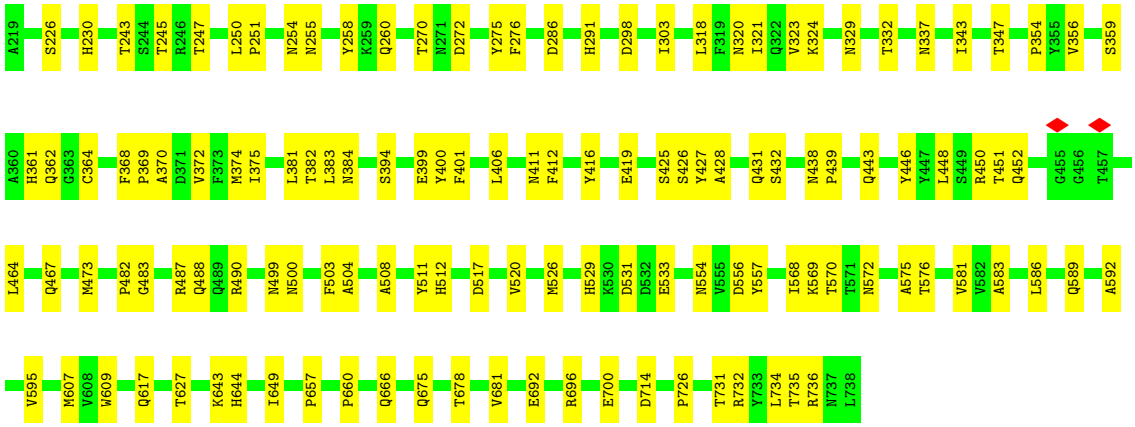
Chain 2:





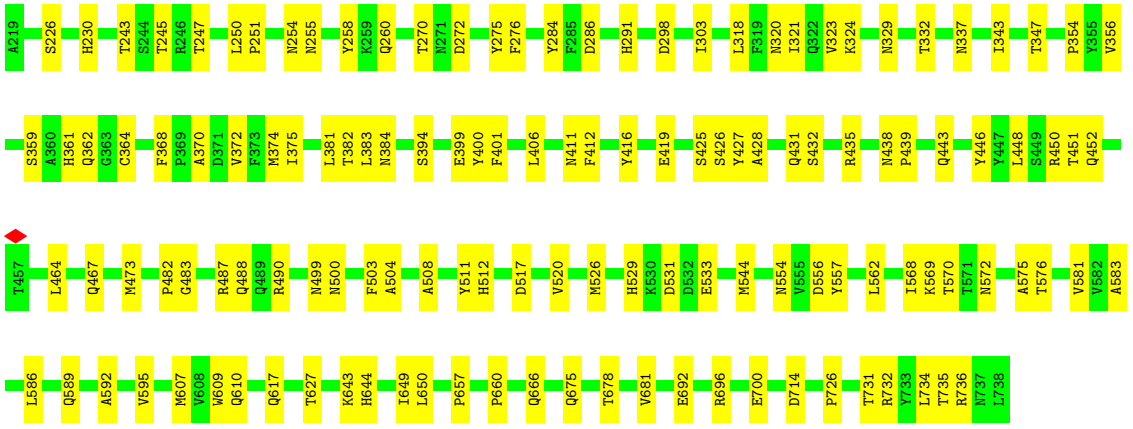
• Molecule 1: Capsid protein VP1

Chain 3:



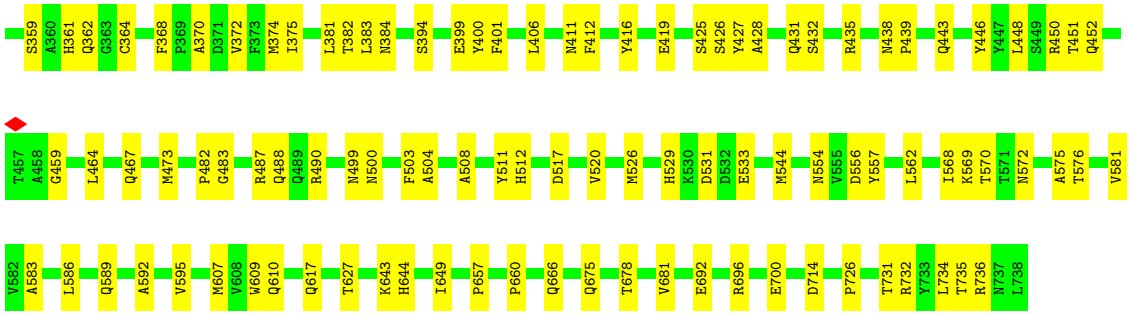
• Molecule 1: Capsid protein VP1

Chain 4:



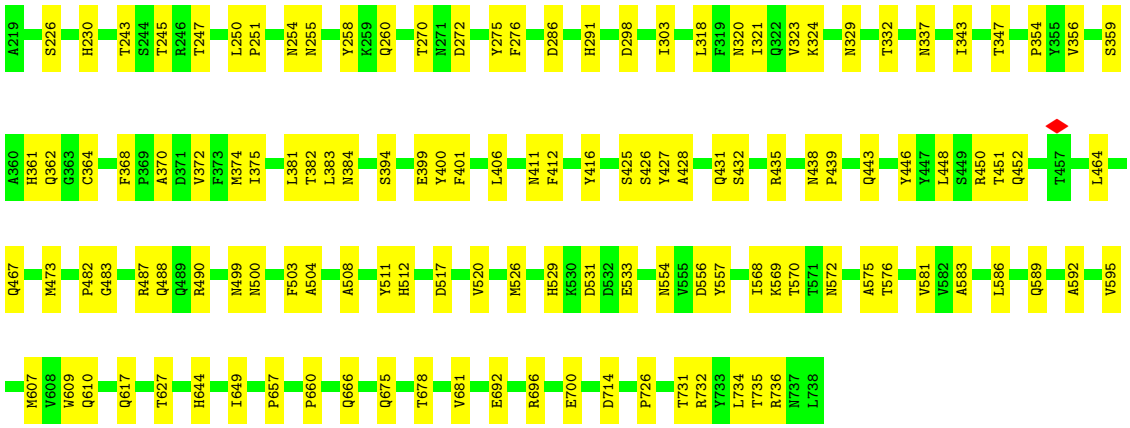
• Molecule 1: Capsid protein VP1

Chain 5:



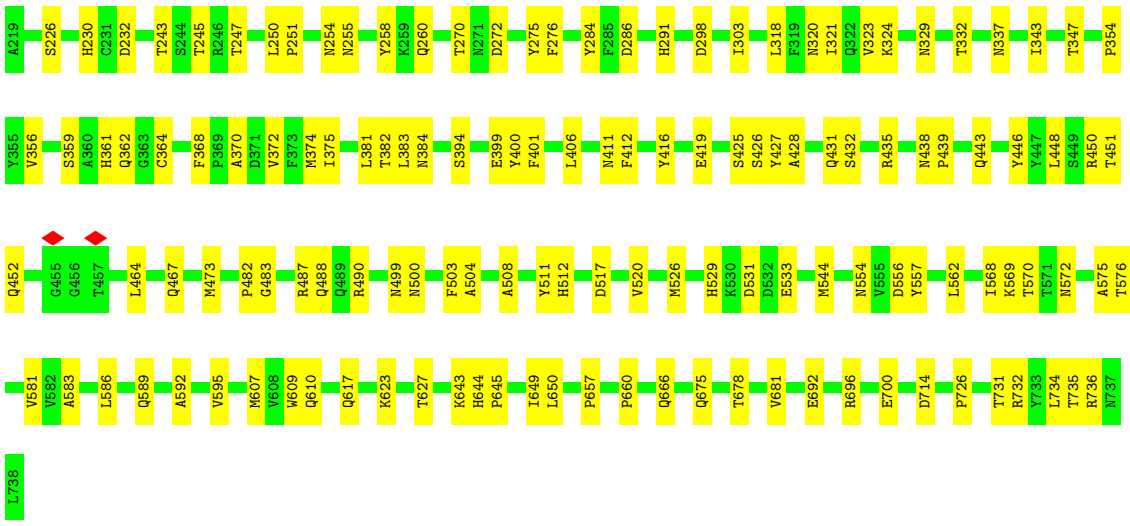
• Molecule 1: Capsid protein VP1

Chain 6:



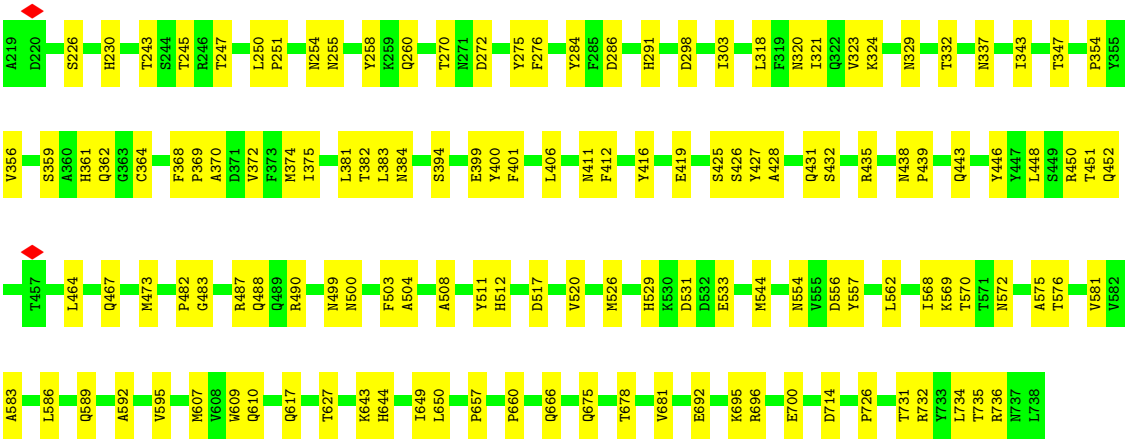
• Molecule 1: Capsid protein VP1

Chain 7:



• Molecule 1: Capsid protein VP1

Chain 8:


A219 D220 S226 H230 T243 S244 T245 R246 T247 L250 P251 N254 N255 Y258 K259 Q260 T270 N271 D272 Y275 F276 Y284 F285 D286 H291 D298 I303 L318 F319 N320 I321 Q322 V323 K324 N329 T332 N337 I343 T347 P354 Y355
V356 S359 A360 H361 Q362 G363 C364 F368 P369 A370 D371 V372 F373 M374 I375 L381 T382 L383 N384 S394 E399 Y400 F401 L406 N411 F412 Y416 E419 S425 S426 Y427 A428 Q431 S432 R435 N438 P439 Q443 Y446 Y447 L448 S449 R450 T451 Q452
T457 L464 Q467 M473 P482 G483 R487 Q488 Q489 R490 N499 N500 F503 A504 A508 Y511 H512 D517 V520 M526 H529 K530 D531 D532 E533 M544 N554 V555 D556 Y557 L562 I568 K569 T570 T571 N572 A575 T576 V581 V582
A583 L586 Q589 A592 V595 M607 V608 W609 Q610 Q617 T627 K643 H644 I649 L650 P657 P660 Q666 Q675 T678 V681 E692 K695 R696 E700 D714 P726 T731 R732 Y733 L734 T735 R736 N737 L738

4 Experimental information (i)

Property	Value	Source
EM reconstruction method	SINGLE PARTICLE	Depositor
Imposed symmetry	POINT, Not provided	
Number of particles used	245529	Depositor
Resolution determination method	FSC 0.143 CUT-OFF	Depositor
CTF correction method	PHASE FLIPPING AND AMPLITUDE CORRECTION	Depositor
Microscope	FEI TITAN KRIOS	Depositor
Voltage (kV)	300	Depositor
Electron dose ($e^-/Å^2$)	60	Depositor
Minimum defocus (nm)	Not provided	
Maximum defocus (nm)	Not provided	
Magnification	Not provided	
Image detector	DIRECT ELECTRON DE-64 (8k x 8k)	Depositor
Maximum map value	16.587	Depositor
Minimum map value	-7.489	Depositor
Average map value	0.000	Depositor
Map value standard deviation	1.000	Depositor
Recommended contour level	1	Depositor
Map size (Å)	390.574, 390.574, 390.574	wwPDB
Map dimensions	401, 401, 401	wwPDB
Map angles (°)	90.0, 90.0, 90.0	wwPDB
Pixel spacing (Å)	0.97400004, 0.97400004, 0.97400004	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	1	0.45	0/4262	0.51	0/5812
1	2	0.45	0/4262	0.51	0/5812
1	3	0.46	0/4262	0.51	0/5812
1	4	0.46	0/4262	0.51	0/5812
1	5	0.46	0/4262	0.51	0/5812
1	6	0.46	0/4262	0.51	0/5812
1	7	0.46	0/4262	0.51	0/5812
1	8	0.46	0/4262	0.51	0/5812
1	A	0.45	0/4262	0.51	0/5812
1	B	0.45	0/4262	0.51	0/5812
1	C	0.46	0/4262	0.51	0/5812
1	D	0.46	0/4262	0.51	0/5812
1	E	0.46	0/4262	0.51	0/5812
1	F	0.46	0/4262	0.51	0/5812
1	G	0.45	0/4262	0.51	0/5812
1	H	0.46	0/4262	0.51	0/5812
1	I	0.45	0/4262	0.51	0/5812
1	J	0.46	0/4262	0.51	0/5812
1	K	0.46	0/4262	0.51	0/5812
1	L	0.46	0/4262	0.51	0/5812
1	M	0.46	0/4262	0.51	0/5812
1	N	0.46	0/4262	0.51	0/5812
1	O	0.46	0/4262	0.51	0/5812
1	P	0.46	0/4262	0.51	0/5812
1	Q	0.46	0/4262	0.51	0/5812
1	R	0.46	0/4262	0.51	0/5812
1	S	0.46	0/4262	0.51	0/5812
1	T	0.45	0/4262	0.51	0/5812
1	U	0.46	0/4262	0.51	0/5812
1	V	0.46	0/4262	0.51	0/5812
1	W	0.46	0/4262	0.51	0/5812
1	X	0.46	0/4262	0.51	0/5812
1	Y	0.46	0/4262	0.51	0/5812
1	Z	0.46	0/4262	0.51	0/5812

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	$\#\|Z\| > 5$	RMSZ	$\#\|Z\| > 5$
1	a	0.46	0/4262	0.51	0/5812
1	b	0.46	0/4262	0.51	0/5812
1	c	0.46	0/4262	0.51	0/5812
1	d	0.45	0/4262	0.51	0/5812
1	e	0.46	0/4262	0.51	0/5812
1	f	0.46	0/4262	0.51	0/5812
1	g	0.46	0/4262	0.51	0/5812
1	h	0.46	0/4262	0.51	0/5812
1	i	0.46	0/4262	0.51	0/5812
1	j	0.46	0/4262	0.51	0/5812
1	k	0.46	0/4262	0.51	0/5812
1	l	0.45	0/4262	0.51	0/5812
1	m	0.46	0/4262	0.51	0/5812
1	n	0.46	0/4262	0.51	0/5812
1	o	0.45	0/4262	0.51	0/5812
1	p	0.45	0/4262	0.51	0/5812
1	q	0.46	0/4262	0.51	0/5812
1	r	0.46	0/4262	0.51	0/5812
1	s	0.46	0/4262	0.51	0/5812
1	t	0.46	0/4262	0.51	0/5812
1	u	0.46	0/4262	0.51	0/5812
1	v	0.46	0/4262	0.51	0/5812
1	w	0.46	0/4262	0.51	0/5812
1	x	0.46	0/4262	0.51	0/5812
1	y	0.46	0/4262	0.51	0/5812
1	z	0.45	0/4262	0.51	0/5812
All	All	0.46	0/255720	0.51	0/348720

There are no bond length outliers.

There are no bond angle outliers.

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	1	4133	0	3896	107	0
1	2	4133	0	3896	106	0
1	3	4133	0	3896	102	0
1	4	4133	0	3896	108	0
1	5	4133	0	3896	107	0
1	6	4133	0	3896	104	0
1	7	4133	0	3896	108	0
1	8	4133	0	3896	108	0
1	A	4133	0	3896	105	0
1	B	4133	0	3896	109	0
1	C	4133	0	3896	108	0
1	D	4133	0	3896	106	0
1	E	4133	0	3896	111	0
1	F	4133	0	3896	105	0
1	G	4133	0	3896	105	0
1	H	4133	0	3896	107	0
1	I	4133	0	3896	109	0
1	J	4133	0	3896	107	0
1	K	4133	0	3896	107	0
1	L	4133	0	3896	108	0
1	M	4133	0	3896	106	0
1	N	4133	0	3896	107	0
1	O	4133	0	3896	104	0
1	P	4133	0	3896	109	0
1	Q	4133	0	3896	108	0
1	R	4133	0	3896	110	0
1	S	4133	0	3896	111	0
1	T	4133	0	3896	107	0
1	U	4133	0	3896	108	0
1	V	4133	0	3896	108	0
1	W	4133	0	3896	110	0
1	X	4133	0	3896	109	0
1	Y	4133	0	3896	108	0
1	Z	4133	0	3896	108	0
1	a	4133	0	3896	107	0
1	b	4133	0	3896	108	0
1	c	4133	0	3896	109	0
1	d	4133	0	3896	109	0
1	e	4133	0	3896	110	0
1	f	4133	0	3896	109	0
1	g	4133	0	3896	109	0
1	h	4133	0	3896	103	0
1	i	4133	0	3896	109	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	j	4133	0	3896	107	0
1	k	4133	0	3896	104	0
1	l	4133	0	3896	109	0
1	m	4133	0	3896	108	0
1	n	4133	0	3896	110	0
1	o	4133	0	3896	106	0
1	p	4133	0	3896	107	0
1	q	4133	0	3896	109	0
1	r	4133	0	3896	108	0
1	s	4133	0	3896	107	0
1	t	4133	0	3896	109	0
1	u	4133	0	3896	112	0
1	v	4133	0	3896	107	0
1	w	4133	0	3896	107	0
1	x	4133	0	3896	112	0
1	y	4133	0	3896	109	0
1	z	4133	0	3896	107	0
All	All	247980	0	233760	5191	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 11.

All (5191) 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:x:473:MET:HE1	1:y:275:TYR:HB3	1.63	0.80
1:B:473:MET:HE1	1:J:275:TYR:HB3	1.64	0.80
1:M:275:TYR:HB3	1:b:473:MET:HE1	1.64	0.80
1:i:275:TYR:HB3	1:k:473:MET:HE1	1.64	0.80
1:R:473:MET:HE1	1:S:275:TYR:HB3	1.64	0.79
1:A:473:MET:HE1	1:G:275:TYR:HB3	1.64	0.79
1:g:275:TYR:HB3	1:h:473:MET:HE1	1.65	0.79
1:o:473:MET:HE1	1:p:275:TYR:HB3	1.65	0.79
1:t:473:MET:HE1	1:u:275:TYR:HB3	1.65	0.79
1:F:275:TYR:HB3	1:Q:473:MET:HE1	1.64	0.79
1:K:275:TYR:HB3	1:8:473:MET:HE1	1.65	0.79
1:O:275:TYR:HB3	1:n:473:MET:HE1	1.64	0.79
1:V:473:MET:HE1	1:e:275:TYR:HB3	1.64	0.79
1:5:473:MET:HE1	1:6:275:TYR:HB3	1.64	0.79
1:D:473:MET:HE1	1:N:275:TYR:HB3	1.64	0.79
1:q:473:MET:HE1	1:r:275:TYR:HB3	1.65	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:W:473:MET:HE1	1:Y:275:TYR:HB3	1.65	0.79
1:K:473:MET:HE1	1:a:275:TYR:HB3	1.64	0.79
1:V:275:TYR:HB3	1:X:473:MET:HE1	1.64	0.79
1:f:275:TYR:HB3	1:g:473:MET:HE1	1.64	0.79
1:i:473:MET:HE1	1:j:275:TYR:HB3	1.64	0.79
1:u:473:MET:HE1	1:v:275:TYR:HB3	1.64	0.79
1:A:275:TYR:HB3	1:I:473:MET:HE1	1.65	0.79
1:D:275:TYR:HB3	1:P:473:MET:HE1	1.65	0.79
1:c:275:TYR:HB3	1:p:473:MET:HE1	1.64	0.79
1:w:275:TYR:HB3	1:y:473:MET:HE1	1.65	0.79
1:w:473:MET:HE1	1:x:275:TYR:HB3	1.64	0.79
1:O:473:MET:HE1	1:m:275:TYR:HB3	1.65	0.78
1:c:473:MET:HE1	1:o:275:TYR:HB3	1.65	0.78
1:m:473:MET:HE1	1:n:275:TYR:HB3	1.64	0.78
1:3:275:TYR:HB3	1:4:473:MET:HE1	1.65	0.78
1:R:275:TYR:HB3	1:U:473:MET:HE1	1.64	0.78
1:Z:473:MET:HE1	1:4:275:TYR:HB3	1.64	0.78
1:N:473:MET:HE1	1:P:275:TYR:HB3	1.64	0.78
1:S:473:MET:HE1	1:U:275:TYR:HB3	1.65	0.78
1:E:275:TYR:HB3	1:F:473:MET:HE1	1.64	0.78
1:d:473:MET:HE1	1:l:275:TYR:HB3	1.65	0.78
1:z:275:TYR:HB3	1:2:473:MET:HE1	1.65	0.78
1:6:473:MET:HE1	1:7:275:TYR:HB3	1.65	0.78
1:G:473:MET:HE1	1:I:275:TYR:HB3	1.65	0.78
1:Z:275:TYR:HB3	1:3:473:MET:HE1	1.65	0.78
1:a:473:MET:HE1	1:8:275:TYR:HB3	1.64	0.78
1:t:275:TYR:HB3	1:v:473:MET:HE1	1.65	0.78
1:H:473:MET:HE1	1:W:275:TYR:HB3	1.64	0.78
1:5:275:TYR:HB3	1:7:473:MET:HE1	1.65	0.78
1:X:275:TYR:HB3	1:e:473:MET:HE1	1.65	0.78
1:r:473:MET:HE1	1:s:275:TYR:HB3	1.64	0.78
1:E:473:MET:HE1	1:Q:275:TYR:HB3	1.65	0.77
1:H:275:TYR:HB3	1:Y:473:MET:HE1	1.65	0.77
1:J:473:MET:HE1	1:L:275:TYR:HB3	1.65	0.77
1:q:275:TYR:HB3	1:s:473:MET:HE1	1.64	0.77
1:C:275:TYR:HB3	1:M:473:MET:HE1	1.65	0.77
1:T:473:MET:HE1	1:d:275:TYR:HB3	1.64	0.77
1:B:275:TYR:HB3	1:L:473:MET:HE1	1.64	0.77
1:f:473:MET:HE1	1:h:275:TYR:HB3	1.64	0.77
1:T:275:TYR:HB3	1:l:473:MET:HE1	1.64	0.77
1:C:473:MET:HE1	1:b:275:TYR:HB3	1.64	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:z:473:MET:HE1	1:1:275:TYR:HB3	1.65	0.77
1:j:473:MET:HE1	1:k:275:TYR:HB3	1.65	0.76
1:1:473:MET:HE1	1:2:275:TYR:HB3	1.65	0.76
1:B:251:PRO:HG3	1:B:374:MET:HE3	1.70	0.73
1:b:251:PRO:HG3	1:b:374:MET:HE3	1.70	0.73
1:l:251:PRO:HG3	1:l:374:MET:HE3	1.70	0.73
1:q:251:PRO:HG3	1:q:374:MET:HE3	1.70	0.73
1:z:251:PRO:HG3	1:z:374:MET:HE3	1.71	0.73
1:J:251:PRO:HG3	1:J:374:MET:HE3	1.71	0.73
1:M:251:PRO:HG3	1:M:374:MET:HE3	1.71	0.73
1:W:251:PRO:HG3	1:W:374:MET:HE3	1.70	0.73
1:y:251:PRO:HG3	1:y:374:MET:HE3	1.70	0.73
1:3:251:PRO:HG3	1:3:374:MET:HE3	1.71	0.73
1:O:251:PRO:HG3	1:O:374:MET:HE3	1.71	0.73
1:f:251:PRO:HG3	1:f:374:MET:HE3	1.70	0.73
1:o:251:PRO:HG3	1:o:374:MET:HE3	1.71	0.73
1:6:251:PRO:HG3	1:6:374:MET:HE3	1.70	0.73
1:A:251:PRO:HG3	1:A:374:MET:HE3	1.71	0.73
1:j:251:PRO:HG3	1:j:374:MET:HE3	1.71	0.73
1:F:251:PRO:HG3	1:F:374:MET:HE3	1.71	0.73
1:L:251:PRO:HG3	1:L:374:MET:HE3	1.71	0.73
1:V:251:PRO:HG3	1:V:374:MET:HE3	1.71	0.73
1:Y:251:PRO:HG3	1:Y:374:MET:HE3	1.71	0.73
1:n:251:PRO:HG3	1:n:374:MET:HE3	1.70	0.73
1:r:251:PRO:HG3	1:r:374:MET:HE3	1.71	0.73
1:C:251:PRO:HG3	1:C:374:MET:HE3	1.71	0.73
1:I:251:PRO:HG3	1:I:374:MET:HE3	1.71	0.73
1:N:251:PRO:HG3	1:N:374:MET:HE3	1.71	0.73
1:c:251:PRO:HG3	1:c:374:MET:HE3	1.71	0.73
1:4:251:PRO:HG3	1:4:374:MET:HE3	1.71	0.73
1:P:251:PRO:HG3	1:P:374:MET:HE3	1.71	0.73
1:a:251:PRO:HG3	1:a:374:MET:HE3	1.71	0.73
1:8:251:PRO:HG3	1:8:374:MET:HE3	1.71	0.73
1:d:251:PRO:HG3	1:d:374:MET:HE3	1.71	0.73
1:2:251:PRO:HG3	1:2:374:MET:HE3	1.71	0.73
1:E:251:PRO:HG3	1:E:374:MET:HE3	1.70	0.73
1:G:251:PRO:HG3	1:G:374:MET:HE3	1.71	0.72
1:R:251:PRO:HG3	1:R:374:MET:HE3	1.71	0.72
1:p:251:PRO:HG3	1:p:374:MET:HE3	1.71	0.72
1:7:251:PRO:HG3	1:7:374:MET:HE3	1.71	0.72
1:Z:251:PRO:HG3	1:Z:374:MET:HE3	1.71	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:t:251:PRO:HG3	1:t:374:MET:HE3	1.71	0.72
1:v:251:PRO:HG3	1:v:374:MET:HE3	1.70	0.72
1:U:251:PRO:HG3	1:U:374:MET:HE3	1.71	0.72
1:i:251:PRO:HG3	1:i:374:MET:HE3	1.70	0.72
1:m:251:PRO:HG3	1:m:374:MET:HE3	1.71	0.72
1:S:251:PRO:HG3	1:S:374:MET:HE3	1.70	0.72
1:T:251:PRO:HG3	1:T:374:MET:HE3	1.71	0.72
1:e:251:PRO:HG3	1:e:374:MET:HE3	1.70	0.72
1:u:251:PRO:HG3	1:u:374:MET:HE3	1.71	0.72
1:g:251:PRO:HG3	1:g:374:MET:HE3	1.70	0.72
1:s:251:PRO:HG3	1:s:374:MET:HE3	1.70	0.72
1:1:251:PRO:HG3	1:1:374:MET:HE3	1.71	0.72
1:H:251:PRO:HG3	1:H:374:MET:HE3	1.71	0.72
1:w:251:PRO:HG3	1:w:374:MET:HE3	1.71	0.72
1:h:251:PRO:HG3	1:h:374:MET:HE3	1.71	0.71
1:k:251:PRO:HG3	1:k:374:MET:HE3	1.71	0.71
1:x:251:PRO:HG3	1:x:374:MET:HE3	1.71	0.71
1:X:251:PRO:HG3	1:X:374:MET:HE3	1.70	0.71
1:Q:251:PRO:HG3	1:Q:374:MET:HE3	1.71	0.71
1:5:251:PRO:HG3	1:5:374:MET:HE3	1.71	0.71
1:i:382:THR:HG21	1:i:394:SER:H	1.56	0.71
1:J:382:THR:HG21	1:J:394:SER:H	1.56	0.71
1:V:382:THR:HG21	1:V:394:SER:H	1.56	0.71
1:s:382:THR:HG21	1:s:394:SER:H	1.56	0.71
1:y:382:THR:HG21	1:y:394:SER:H	1.56	0.71
1:D:251:PRO:HG3	1:D:374:MET:HE3	1.70	0.70
1:H:382:THR:HG21	1:H:394:SER:H	1.56	0.70
1:O:382:THR:HG21	1:O:394:SER:H	1.56	0.70
1:g:382:THR:HG21	1:g:394:SER:H	1.56	0.70
1:5:230[B]:HIS:CD2	1:5:243:THR:HG21	2.26	0.70
1:M:382:THR:HG21	1:M:394:SER:H	1.56	0.70
1:P:230[B]:HIS:CD2	1:P:243:THR:HG21	2.26	0.70
1:Q:230[B]:HIS:CD2	1:Q:243:THR:HG21	2.27	0.70
1:R:382:THR:HG21	1:R:394:SER:H	1.56	0.70
1:T:230[B]:HIS:CD2	1:T:243:THR:HG21	2.27	0.70
1:W:382:THR:HG21	1:W:394:SER:H	1.56	0.70
1:e:230[B]:HIS:CD2	1:e:243:THR:HG21	2.26	0.70
1:t:382:THR:HG21	1:t:394:SER:H	1.56	0.70
1:x:431:GLN:HE22	1:y:354:PRO:HB3	1.56	0.70
1:1:230[B]:HIS:CD2	1:1:243:THR:HG21	2.27	0.70
1:3:382:THR:HG21	1:3:394:SER:H	1.56	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:382:THR:HG21	1:I:394:SER:H	1.56	0.70
1:U:230[B]:HIS:CD2	1:U:243:THR:HG21	2.27	0.70
1:h:230[B]:HIS:CD2	1:h:243:THR:HG21	2.26	0.70
1:v:230[B]:HIS:CD2	1:v:243:THR:HG21	2.27	0.70
1:7:382:THR:HG21	1:7:394:SER:H	1.56	0.70
1:K:251:PRO:HG3	1:K:374:MET:HE3	1.71	0.70
1:b:382:THR:HG21	1:b:394:SER:H	1.56	0.70
1:c:382:THR:HG21	1:c:394:SER:H	1.56	0.70
1:f:230[B]:HIS:CD2	1:f:243:THR:HG21	2.27	0.70
1:k:230[B]:HIS:CD2	1:k:243:THR:HG21	2.26	0.70
1:l:382:THR:HG21	1:l:394:SER:H	1.56	0.70
1:n:230[B]:HIS:CD2	1:n:243:THR:HG21	2.26	0.70
1:q:382:THR:HG21	1:q:394:SER:H	1.56	0.70
1:w:230[B]:HIS:CD2	1:w:243:THR:HG21	2.27	0.70
1:4:230[B]:HIS:CD2	1:4:243:THR:HG21	2.27	0.70
1:8:230[B]:HIS:CD2	1:8:243:THR:HG21	2.27	0.70
1:X:230[B]:HIS:CD2	1:X:243:THR:HG21	2.27	0.70
1:j:230[B]:HIS:CD2	1:j:243:THR:HG21	2.27	0.70
1:x:230[B]:HIS:CD2	1:x:243:THR:HG21	2.26	0.70
1:y:230[B]:HIS:CD2	1:y:243:THR:HG21	2.26	0.70
1:z:382:THR:HG21	1:z:394:SER:H	1.56	0.70
1:4:382:THR:HG21	1:4:394:SER:H	1.56	0.70
1:B:382:THR:HG21	1:B:394:SER:H	1.56	0.70
1:C:230[B]:HIS:CD2	1:C:243:THR:HG21	2.27	0.70
1:E:382:THR:HG21	1:E:394:SER:H	1.56	0.70
1:F:382:THR:HG21	1:F:394:SER:H	1.56	0.70
1:J:230[B]:HIS:CD2	1:J:243:THR:HG21	2.26	0.70
1:L:230[B]:HIS:CD2	1:L:243:THR:HG21	2.27	0.70
1:V:230[B]:HIS:CD2	1:V:243:THR:HG21	2.27	0.70
1:Z:382:THR:HG21	1:Z:394:SER:H	1.56	0.70
1:m:382:THR:HG21	1:m:394:SER:H	1.56	0.70
1:M:230[B]:HIS:CD2	1:M:243:THR:HG21	2.26	0.70
1:n:382:THR:HG21	1:n:394:SER:H	1.56	0.70
1:I:230[B]:HIS:CD2	1:I:243:THR:HG21	2.27	0.70
1:L:382:THR:HG21	1:L:394:SER:H	1.56	0.70
1:U:382:THR:HG21	1:U:394:SER:H	1.56	0.70
1:b:230[B]:HIS:CD2	1:b:243:THR:HG21	2.26	0.70
1:c:230[B]:HIS:CD2	1:c:243:THR:HG21	2.27	0.70
1:e:382:THR:HG21	1:e:394:SER:H	1.56	0.70
1:g:230[B]:HIS:CD2	1:g:243:THR:HG21	2.26	0.70
1:v:382:THR:HG21	1:v:394:SER:H	1.56	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:382:THR:HG21	1:A:394:SER:H	1.56	0.70
1:i:230[B]:HIS:CD2	1:i:243:THR:HG21	2.27	0.70
1:6:382:THR:HG21	1:6:394:SER:H	1.56	0.70
1:7:230[B]:HIS:CD2	1:7:243:THR:HG21	2.27	0.70
1:B:230[B]:HIS:CD2	1:B:243:THR:HG21	2.26	0.70
1:C:382:THR:HG21	1:C:394:SER:H	1.56	0.70
1:E:230[B]:HIS:CD2	1:E:243:THR:HG21	2.26	0.70
1:S:382:THR:HG21	1:S:394:SER:H	1.56	0.70
1:o:382:THR:HG21	1:o:394:SER:H	1.56	0.70
1:w:382:THR:HG21	1:w:394:SER:H	1.56	0.70
1:2:230[B]:HIS:CD2	1:2:243:THR:HG21	2.26	0.70
1:5:382:THR:HG21	1:5:394:SER:H	1.56	0.70
1:8:382:THR:HG21	1:8:394:SER:H	1.56	0.70
1:A:230[B]:HIS:CD2	1:A:243:THR:HG21	2.27	0.69
1:O:230[B]:HIS:CD2	1:O:243:THR:HG21	2.27	0.69
1:P:382:THR:HG21	1:P:394:SER:H	1.56	0.69
1:Q:382:THR:HG21	1:Q:394:SER:H	1.56	0.69
1:R:230[B]:HIS:CD2	1:R:243:THR:HG21	2.27	0.69
1:d:230[B]:HIS:CD2	1:d:243:THR:HG21	2.26	0.69
1:q:230[B]:HIS:CD2	1:q:243:THR:HG21	2.26	0.69
1:r:230[B]:HIS:CD2	1:r:243:THR:HG21	2.26	0.69
1:t:230[B]:HIS:CD2	1:t:243:THR:HG21	2.27	0.69
1:3:230[B]:HIS:CD2	1:3:243:THR:HG21	2.27	0.69
1:G:230[B]:HIS:CD2	1:G:243:THR:HG21	2.27	0.69
1:N:230[B]:HIS:CD2	1:N:243:THR:HG21	2.27	0.69
1:a:230[B]:HIS:CD2	1:a:243:THR:HG21	2.26	0.69
1:o:230[B]:HIS:CD2	1:o:243:THR:HG21	2.27	0.69
1:p:230[B]:HIS:CD2	1:p:243:THR:HG21	2.27	0.69
1:x:382:THR:HG21	1:x:394:SER:H	1.56	0.69
1:z:230[B]:HIS:CD2	1:z:243:THR:HG21	2.27	0.69
1:T:382:THR:HG21	1:T:394:SER:H	1.56	0.69
1:W:230[B]:HIS:CD2	1:W:243:THR:HG21	2.27	0.69
1:Z:230[B]:HIS:CD2	1:Z:243:THR:HG21	2.27	0.69
1:h:382:THR:HG21	1:h:394:SER:H	1.56	0.69
1:u:382:THR:HG21	1:u:394:SER:H	1.56	0.69
1:1:382:THR:HG21	1:1:394:SER:H	1.56	0.69
1:D:230[B]:HIS:CD2	1:D:243:THR:HG21	2.27	0.69
1:K:230[B]:HIS:CD2	1:K:243:THR:HG21	2.26	0.69
1:X:382:THR:HG21	1:X:394:SER:H	1.56	0.69
1:Y:230[B]:HIS:CD2	1:Y:243:THR:HG21	2.27	0.69
1:d:382:THR:HG21	1:d:394:SER:H	1.56	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:l:230[B]:HIS:CD2	1:l:243:THR:HG21	2.27	0.69
1:m:230[B]:HIS:CD2	1:m:243:THR:HG21	2.27	0.69
1:K:382:THR:HG21	1:K:394:SER:H	1.56	0.69
1:V:354:PRO:HB3	1:X:431:GLN:HE22	1.58	0.69
1:X:354:PRO:HB3	1:e:431:GLN:HE22	1.58	0.69
1:f:431:GLN:HE22	1:h:354:PRO:HB3	1.58	0.69
1:k:382:THR:HG21	1:k:394:SER:H	1.56	0.69
1:s:230[B]:HIS:CD2	1:s:243:THR:HG21	2.26	0.69
1:x:464:LEU:HD23	1:y:554:ASN:HB3	1.73	0.69
1:B:354:PRO:HB3	1:L:431:GLN:HE22	1.58	0.69
1:E:431:GLN:HE22	1:Q:354:PRO:HB3	1.58	0.69
1:H:431:GLN:HE22	1:W:354:PRO:HB3	1.58	0.69
1:L:324:LYS:HE2	1:L:337:ASN:OD1	1.93	0.69
1:S:230[B]:HIS:CD2	1:S:243:THR:HG21	2.26	0.69
1:q:354:PRO:HB3	1:s:431:GLN:HE22	1.58	0.69
1:2:382:THR:HG21	1:2:394:SER:H	1.56	0.69
1:6:230[B]:HIS:CD2	1:6:243:THR:HG21	2.26	0.69
1:C:324:LYS:HE2	1:C:337:ASN:OD1	1.93	0.69
1:C:431:GLN:HE22	1:b:354:PRO:HB3	1.58	0.69
1:D:382:THR:HG21	1:D:394:SER:H	1.56	0.69
1:F:230[B]:HIS:CD2	1:F:243:THR:HG21	2.26	0.69
1:F:324:LYS:HE2	1:F:337:ASN:OD1	1.93	0.69
1:H:230[B]:HIS:CD2	1:H:243:THR:HG21	2.26	0.69
1:I:324:LYS:HE2	1:I:337:ASN:OD1	1.93	0.69
1:R:431:GLN:HE22	1:S:354:PRO:HB3	1.58	0.69
1:Y:382:THR:HG21	1:Y:394:SER:H	1.56	0.69
1:c:324:LYS:HE2	1:c:337:ASN:OD1	1.93	0.69
1:i:354:PRO:HB3	1:k:431:GLN:HE22	1.58	0.69
1:j:324:LYS:HE2	1:j:337:ASN:OD1	1.93	0.69
1:j:431:GLN:HE22	1:k:354:PRO:HB3	1.58	0.69
1:5:324:LYS:HE2	1:5:337:ASN:OD1	1.93	0.69
1:5:354:PRO:HB3	1:7:431:GLN:HE22	1.58	0.69
1:Q:324:LYS:HE2	1:Q:337:ASN:OD1	1.93	0.69
1:U:324:LYS:HE2	1:U:337:ASN:OD1	1.93	0.69
1:Z:324:LYS:HE2	1:Z:337:ASN:OD1	1.93	0.69
1:f:324:LYS:HE2	1:f:337:ASN:OD1	1.93	0.69
1:h:324:LYS:HE2	1:h:337:ASN:OD1	1.93	0.69
1:m:324:LYS:HE2	1:m:337:ASN:OD1	1.93	0.69
1:v:324:LYS:HE2	1:v:337:ASN:OD1	1.93	0.69
1:z:354:PRO:HB3	1:2:431:GLN:HE22	1.58	0.69
1:3:324:LYS:HE2	1:3:337:ASN:OD1	1.93	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:6:324:LYS:HE2	1:6:337:ASN:OD1	1.93	0.69
1:O:324:LYS:HE2	1:O:337:ASN:OD1	1.93	0.69
1:O:354:PRO:HB3	1:n:431:GLN:HE22	1.58	0.69
1:O:431:GLN:HE22	1:m:354:PRO:HB3	1.58	0.69
1:R:324:LYS:HE2	1:R:337:ASN:OD1	1.93	0.69
1:r:382:THR:HG21	1:r:394:SER:H	1.56	0.69
1:t:354:PRO:HB3	1:v:431:GLN:HE22	1.58	0.69
1:E:324:LYS:HE2	1:E:337:ASN:OD1	1.93	0.68
1:F:354:PRO:HB3	1:Q:431:GLN:HE22	1.58	0.68
1:R:354:PRO:HB3	1:U:431:GLN:HE22	1.58	0.68
1:T:354:PRO:HB3	1:l:431:GLN:HE22	1.58	0.68
1:V:431:GLN:HE22	1:e:354:PRO:HB3	1.58	0.68
1:d:431:GLN:HE22	1:l:354:PRO:HB3	1.58	0.68
1:k:324:LYS:HE2	1:k:337:ASN:OD1	1.93	0.68
1:t:324:LYS:HE2	1:t:337:ASN:OD1	1.93	0.68
1:t:431:GLN:HE22	1:u:354:PRO:HB3	1.58	0.68
1:u:230[B]:HIS:CD2	1:u:243:THR:HG21	2.27	0.68
1:w:354:PRO:HB3	1:y:431:GLN:HE22	1.58	0.68
1:w:431:GLN:HE22	1:x:354:PRO:HB3	1.58	0.68
1:5:431:GLN:HE22	1:6:354:PRO:HB3	1.58	0.68
1:7:324:LYS:HE2	1:7:337:ASN:OD1	1.93	0.68
1:B:324:LYS:HE2	1:B:337:ASN:OD1	1.93	0.68
1:H:324:LYS:HE2	1:H:337:ASN:OD1	1.93	0.68
1:J:324:LYS:HE2	1:J:337:ASN:OD1	1.93	0.68
1:M:324:LYS:HE2	1:M:337:ASN:OD1	1.93	0.68
1:T:431:GLN:HE22	1:d:354:PRO:HB3	1.58	0.68
1:Y:324:LYS:HE2	1:Y:337:ASN:OD1	1.93	0.68
1:g:354:PRO:HB3	1:h:431:GLN:HE22	1.58	0.68
1:S:324:LYS:HE2	1:S:337:ASN:OD1	1.93	0.68
1:Z:354:PRO:HB3	1:3:431:GLN:HE22	1.58	0.68
1:a:431:GLN:HE22	1:8:354:PRO:HB3	1.58	0.68
1:r:324:LYS:HE2	1:r:337:ASN:OD1	1.93	0.68
1:u:324:LYS:HE2	1:u:337:ASN:OD1	1.93	0.68
1:u:431:GLN:HE22	1:v:354:PRO:HB3	1.58	0.68
1:3:354:PRO:HB3	1:4:431:GLN:HE22	1.58	0.68
1:N:431:GLN:HE22	1:P:354:PRO:HB3	1.58	0.68
1:b:324:LYS:HE2	1:b:337:ASN:OD1	1.93	0.68
1:s:324:LYS:HE2	1:s:337:ASN:OD1	1.93	0.68
1:z:431:GLN:HE22	1:1:354:PRO:HB3	1.58	0.68
1:A:324:LYS:HE2	1:A:337:ASN:OD1	1.93	0.68
1:D:324:LYS:HE2	1:D:337:ASN:OD1	1.93	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:324:LYS:HE2	1:K:337:ASN:OD1	1.93	0.68
1:N:382:THR:HG21	1:N:394:SER:H	1.56	0.68
1:T:324:LYS:HE2	1:T:337:ASN:OD1	1.93	0.68
1:f:382:THR:HG21	1:f:394:SER:H	1.56	0.68
1:n:324:LYS:HE2	1:n:337:ASN:OD1	1.93	0.68
1:o:324:LYS:HE2	1:o:337:ASN:OD1	1.93	0.68
1:G:382:THR:HG21	1:G:394:SER:H	1.56	0.68
1:N:324:LYS:HE2	1:N:337:ASN:OD1	1.93	0.68
1:S:431:GLN:HE22	1:U:354:PRO:HB3	1.58	0.68
1:a:382:THR:HG21	1:a:394:SER:H	1.56	0.68
1:d:324:LYS:HE2	1:d:337:ASN:OD1	1.93	0.68
1:1:324:LYS:HE2	1:1:337:ASN:OD1	1.93	0.68
1:4:324:LYS:HE2	1:4:337:ASN:OD1	1.93	0.68
1:8:324:LYS:HE2	1:8:337:ASN:OD1	1.93	0.68
1:P:324:LYS:HE2	1:P:337:ASN:OD1	1.93	0.68
1:c:431:GLN:HE22	1:o:354:PRO:HB3	1.58	0.68
1:p:324:LYS:HE2	1:p:337:ASN:OD1	1.93	0.68
1:p:382:THR:HG21	1:p:394:SER:H	1.56	0.68
1:r:431:GLN:HE22	1:s:354:PRO:HB3	1.58	0.68
1:2:324:LYS:HE2	1:2:337:ASN:OD1	1.93	0.68
1:G:324:LYS:HE2	1:G:337:ASN:OD1	1.93	0.68
1:X:324:LYS:HE2	1:X:337:ASN:OD1	1.93	0.68
1:a:324:LYS:HE2	1:a:337:ASN:OD1	1.93	0.68
1:w:464:LEU:HD23	1:x:554:ASN:HB3	1.76	0.68
1:x:324:LYS:HE2	1:x:337:ASN:OD1	1.93	0.68
1:1:431:GLN:HE22	1:2:354:PRO:HB3	1.58	0.68
1:E:354:PRO:HB3	1:F:431:GLN:HE22	1.58	0.68
1:K:354:PRO:HB3	1:8:431:GLN:HE22	1.58	0.68
1:j:382:THR:HG21	1:j:394:SER:H	1.56	0.68
1:m:431:GLN:HE22	1:n:354:PRO:HB3	1.58	0.68
1:q:431:GLN:HE22	1:r:354:PRO:HB3	1.58	0.68
1:A:354:PRO:HB3	1:I:431:GLN:HE22	1.58	0.68
1:Z:431:GLN:HE22	1:4:354:PRO:HB3	1.58	0.68
1:c:354:PRO:HB3	1:p:431:GLN:HE22	1.58	0.68
1:o:431:GLN:HE22	1:p:354:PRO:HB3	1.58	0.68
1:6:431:GLN:HE22	1:7:354:PRO:HB3	1.58	0.68
1:A:431:GLN:HE22	1:G:354:PRO:HB3	1.58	0.67
1:B:431:GLN:HE22	1:J:354:PRO:HB3	1.58	0.67
1:D:354:PRO:HB3	1:P:431:GLN:HE22	1.58	0.67
1:H:354:PRO:HB3	1:Y:431:GLN:HE22	1.58	0.67
1:M:354:PRO:HB3	1:b:431:GLN:HE22	1.58	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:q:324:LYS:HE2	1:q:337:ASN:OD1	1.93	0.67
1:c:554:ASN:HB3	1:p:464:LEU:HD23	1.76	0.67
1:g:324:LYS:HE2	1:g:337:ASN:OD1	1.93	0.67
1:B:464:LEU:HD23	1:J:554:ASN:HB3	1.76	0.67
1:G:431:GLN:HE22	1:I:354:PRO:HB3	1.58	0.67
1:O:554:ASN:HB3	1:n:464:LEU:HD23	1.76	0.67
1:W:324:LYS:HE2	1:W:337:ASN:OD1	1.93	0.67
1:X:554:ASN:HB3	1:e:464:LEU:HD23	1.77	0.67
1:e:324:LYS:HE2	1:e:337:ASN:OD1	1.93	0.67
1:i:324:LYS:HE2	1:i:337:ASN:OD1	1.93	0.67
1:u:464:LEU:HD23	1:v:554:ASN:HB3	1.76	0.67
1:y:324:LYS:HE2	1:y:337:ASN:OD1	1.93	0.67
1:M:554:ASN:HB3	1:b:464:LEU:HD23	1.76	0.67
1:V:324:LYS:HE2	1:V:337:ASN:OD1	1.93	0.67
1:V:464:LEU:HD23	1:e:554:ASN:HB3	1.76	0.67
1:o:464:LEU:HD23	1:p:554:ASN:HB3	1.77	0.67
1:w:324:LYS:HE2	1:w:337:ASN:OD1	1.93	0.67
1:3:554:ASN:HB3	1:4:464:LEU:HD23	1.77	0.67
1:A:464:LEU:HD23	1:G:554:ASN:HB3	1.77	0.67
1:G:464:LEU:HD23	1:I:554:ASN:HB3	1.77	0.67
1:W:431:GLN:HE22	1:Y:354:PRO:HB3	1.58	0.67
1:i:554:ASN:HB3	1:k:464:LEU:HD23	1.76	0.67
1:r:464:LEU:HD23	1:s:554:ASN:HB3	1.77	0.67
1:t:554:ASN:HB3	1:v:464:LEU:HD23	1.76	0.67
1:f:464:LEU:HD23	1:h:554:ASN:HB3	1.76	0.67
1:t:464:LEU:HD23	1:u:554:ASN:HB3	1.77	0.67
1:w:554:ASN:HB3	1:y:464:LEU:HD23	1.77	0.67
1:C:354:PRO:HB3	1:M:431:GLN:HE22	1.58	0.67
1:D:431:GLN:HE22	1:N:354:PRO:HB3	1.58	0.67
1:R:464:LEU:HD23	1:S:554:ASN:HB3	1.77	0.67
1:R:554:ASN:HB3	1:U:464:LEU:HD23	1.77	0.67
1:l:324:LYS:HE2	1:l:337:ASN:OD1	1.93	0.67
1:H:554:ASN:HB3	1:Y:464:LEU:HD23	1.77	0.67
1:K:431:GLN:HE22	1:a:354:PRO:HB3	1.58	0.67
1:K:554:ASN:HB3	1:8:464:LEU:HD23	1.76	0.67
1:S:464:LEU:HD23	1:U:554:ASN:HB3	1.77	0.67
1:O:464:LEU:HD23	1:m:554:ASN:HB3	1.77	0.67
1:z:324:LYS:HE2	1:z:337:ASN:OD1	1.93	0.67
1:z:464:LEU:HD23	1:1:554:ASN:HB3	1.76	0.67
1:6:464:LEU:HD23	1:7:554:ASN:HB3	1.76	0.66
1:D:554:ASN:HB3	1:P:464:LEU:HD23	1.76	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:431:GLN:HE22	1:L:354:PRO:HB3	1.58	0.66
1:T:554:ASN:HB3	1:l:464:LEU:HD23	1.77	0.66
1:Z:554:ASN:HB3	1:3:464:LEU:HD23	1.77	0.66
1:R:526:MET:HE2	1:R:575:ALA:HA	1.78	0.66
1:T:464:LEU:HD23	1:d:554:ASN:HB3	1.76	0.66
1:g:554:ASN:HB3	1:h:464:LEU:HD23	1.77	0.66
1:j:464:LEU:HD23	1:k:554:ASN:HB3	1.77	0.66
1:3:526:MET:HE2	1:3:575:ALA:HA	1.78	0.66
1:c:464:LEU:HD23	1:o:554:ASN:HB3	1.77	0.66
1:H:464:LEU:HD23	1:W:554:ASN:HB3	1.76	0.66
1:L:526:MET:HE2	1:L:575:ALA:HA	1.78	0.66
1:O:526:MET:HE2	1:O:575:ALA:HA	1.78	0.66
1:d:526:MET:HE2	1:d:575:ALA:HA	1.78	0.66
1:i:464:LEU:HD23	1:j:554:ASN:HB3	1.76	0.66
1:t:526:MET:HE2	1:t:575:ALA:HA	1.78	0.66
1:2:526:MET:HE2	1:2:575:ALA:HA	1.78	0.66
1:5:464:LEU:HD23	1:6:554:ASN:HB3	1.76	0.66
1:C:526:MET:HE2	1:C:575:ALA:HA	1.78	0.66
1:J:464:LEU:HD23	1:L:554:ASN:HB3	1.77	0.66
1:W:464:LEU:HD23	1:Y:554:ASN:HB3	1.77	0.66
1:e:526:MET:HE2	1:e:575:ALA:HA	1.78	0.66
1:f:554:ASN:HB3	1:g:464:LEU:HD23	1.77	0.66
1:q:464:LEU:HD23	1:r:554:ASN:HB3	1.77	0.66
1:1:464:LEU:HD23	1:2:554:ASN:HB3	1.77	0.66
1:C:554:ASN:HB3	1:M:464:LEU:HD23	1.77	0.66
1:E:554:ASN:HB3	1:F:464:LEU:HD23	1.77	0.66
1:K:526:MET:HE2	1:K:575:ALA:HA	1.78	0.66
1:T:526:MET:HE2	1:T:575:ALA:HA	1.78	0.66
1:V:554:ASN:HB3	1:X:464:LEU:HD23	1.76	0.66
1:g:526:MET:HE2	1:g:575:ALA:HA	1.78	0.66
1:i:431:GLN:HE22	1:j:354:PRO:HB3	1.58	0.66
1:i:526:MET:HE2	1:i:575:ALA:HA	1.78	0.66
1:q:554:ASN:HB3	1:s:464:LEU:HD23	1.77	0.66
1:w:526:MET:HE2	1:w:575:ALA:HA	1.78	0.66
1:8:526:MET:HE2	1:8:575:ALA:HA	1.78	0.66
1:A:554:ASN:HB3	1:I:464:LEU:HD23	1.77	0.66
1:D:464:LEU:HD23	1:N:554:ASN:HB3	1.76	0.66
1:K:464:LEU:HD23	1:a:554:ASN:HB3	1.76	0.66
1:P:526:MET:HE2	1:P:575:ALA:HA	1.78	0.66
1:a:464:LEU:HD23	1:8:554:ASN:HB3	1.76	0.66
1:D:526:MET:HE2	1:D:575:ALA:HA	1.78	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:W:526:MET:HE2	1:W:575:ALA:HA	1.78	0.66
1:f:354:PRO:HB3	1:g:431:GLN:HE22	1.58	0.66
1:1:526:MET:HE2	1:1:575:ALA:HA	1.78	0.66
1:A:526:MET:HE2	1:A:575:ALA:HA	1.78	0.66
1:r:526:MET:HE2	1:r:575:ALA:HA	1.78	0.66
1:z:554:ASN:HB3	1:2:464:LEU:HD23	1.76	0.66
1:F:554:ASN:HB3	1:Q:464:LEU:HD23	1.77	0.65
1:S:526:MET:HE2	1:S:575:ALA:HA	1.78	0.65
1:o:526:MET:HE2	1:o:575:ALA:HA	1.78	0.65
1:q:526:MET:HE2	1:q:575:ALA:HA	1.78	0.65
1:N:464:LEU:HD23	1:P:554:ASN:HB3	1.76	0.65
1:u:526:MET:HE2	1:u:575:ALA:HA	1.78	0.65
1:6:526:MET:HE2	1:6:575:ALA:HA	1.78	0.65
1:Y:526:MET:HE2	1:Y:575:ALA:HA	1.78	0.65
1:Z:464:LEU:HD23	1:4:554:ASN:HB3	1.76	0.65
1:u:499:ASN:OD1	1:u:500:ASN:N	2.30	0.65
1:E:464:LEU:HD23	1:Q:554:ASN:HB3	1.77	0.65
1:E:499:ASN:OD1	1:E:500:ASN:N	2.30	0.65
1:F:526:MET:HE2	1:F:575:ALA:HA	1.78	0.65
1:Q:526:MET:HE2	1:Q:575:ALA:HA	1.78	0.65
1:S:499:ASN:OD1	1:S:500:ASN:N	2.30	0.65
1:Z:526:MET:HE2	1:Z:575:ALA:HA	1.78	0.65
1:d:464:LEU:HD23	1:l:554:ASN:HB3	1.77	0.65
1:f:526:MET:HE2	1:f:575:ALA:HA	1.78	0.65
1:m:526:MET:HE2	1:m:575:ALA:HA	1.78	0.65
1:q:499:ASN:OD1	1:q:500:ASN:N	2.30	0.65
1:s:499:ASN:OD1	1:s:500:ASN:N	2.30	0.65
1:7:499:ASN:OD1	1:7:500:ASN:N	2.30	0.65
1:B:554:ASN:HB3	1:L:464:LEU:HD23	1.77	0.65
1:C:464:LEU:HD23	1:b:554:ASN:HB3	1.77	0.65
1:D:499:ASN:OD1	1:D:500:ASN:N	2.30	0.65
1:H:499:ASN:OD1	1:H:500:ASN:N	2.30	0.65
1:N:499:ASN:OD1	1:N:500:ASN:N	2.30	0.65
1:W:499:ASN:OD1	1:W:500:ASN:N	2.30	0.65
1:X:499:ASN:OD1	1:X:500:ASN:N	2.30	0.65
1:a:499:ASN:OD1	1:a:500:ASN:N	2.30	0.65
1:m:464:LEU:HD23	1:n:554:ASN:HB3	1.77	0.65
1:K:499:ASN:OD1	1:K:500:ASN:N	2.30	0.65
1:x:499:ASN:OD1	1:x:500:ASN:N	2.30	0.65
1:5:554:ASN:HB3	1:7:464:LEU:HD23	1.76	0.65
1:B:499:ASN:OD1	1:B:500:ASN:N	2.30	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:499:ASN:OD1	1:L:500:ASN:N	2.30	0.65
1:Y:499:ASN:OD1	1:Y:500:ASN:N	2.30	0.65
1:j:526:MET:HE2	1:j:575:ALA:HA	1.78	0.65
1:n:499:ASN:OD1	1:n:500:ASN:N	2.30	0.65
1:r:499:ASN:OD1	1:r:500:ASN:N	2.30	0.65
1:z:526:MET:HE2	1:z:575:ALA:HA	1.78	0.65
1:4:499:ASN:OD1	1:4:500:ASN:N	2.30	0.65
1:5:526:MET:HE2	1:5:575:ALA:HA	1.78	0.65
1:C:499:ASN:OD1	1:C:500:ASN:N	2.30	0.65
1:b:499:ASN:OD1	1:b:500:ASN:N	2.30	0.65
1:k:526:MET:HE2	1:k:575:ALA:HA	1.78	0.65
1:l:526:MET:HE2	1:l:575:ALA:HA	1.78	0.65
1:1:499:ASN:OD1	1:1:500:ASN:N	2.30	0.65
1:5:499:ASN:OD1	1:5:500:ASN:N	2.30	0.65
1:G:526:MET:HE2	1:G:575:ALA:HA	1.78	0.65
1:T:499:ASN:OD1	1:T:500:ASN:N	2.30	0.65
1:V:526:MET:HE2	1:V:575:ALA:HA	1.78	0.65
1:g:499:ASN:OD1	1:g:500:ASN:N	2.30	0.65
1:h:526:MET:HE2	1:h:575:ALA:HA	1.78	0.65
1:i:499:ASN:OD1	1:i:500:ASN:N	2.30	0.65
1:p:526:MET:HE2	1:p:575:ALA:HA	1.78	0.65
1:y:526:MET:HE2	1:y:575:ALA:HA	1.78	0.65
1:E:526:MET:HE2	1:E:575:ALA:HA	1.78	0.65
1:Q:499:ASN:OD1	1:Q:500:ASN:N	2.30	0.65
1:X:526:MET:HE2	1:X:575:ALA:HA	1.78	0.65
1:a:526:MET:HE2	1:a:575:ALA:HA	1.78	0.65
1:c:499:ASN:OD1	1:c:500:ASN:N	2.30	0.65
1:d:499:ASN:OD1	1:d:500:ASN:N	2.30	0.65
1:7:526:MET:HE2	1:7:575:ALA:HA	1.78	0.65
1:G:499:ASN:OD1	1:G:500:ASN:N	2.30	0.64
1:N:526:MET:HE2	1:N:575:ALA:HA	1.78	0.64
1:j:499:ASN:OD1	1:j:500:ASN:N	2.30	0.64
1:l:499:ASN:OD1	1:l:500:ASN:N	2.30	0.64
1:o:499:ASN:OD1	1:o:500:ASN:N	2.30	0.64
1:p:499:ASN:OD1	1:p:500:ASN:N	2.30	0.64
1:x:526:MET:HE2	1:x:575:ALA:HA	1.78	0.64
1:z:499:ASN:OD1	1:z:500:ASN:N	2.30	0.64
1:I:499:ASN:OD1	1:I:500:ASN:N	2.30	0.64
1:b:526:MET:HE2	1:b:575:ALA:HA	1.78	0.64
1:c:526:MET:HE2	1:c:575:ALA:HA	1.78	0.64
1:f:499:ASN:OD1	1:f:500:ASN:N	2.30	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:h:499:ASN:OD1	1:h:500:ASN:N	2.30	0.64
1:k:499:ASN:OD1	1:k:500:ASN:N	2.30	0.64
1:2:499:ASN:OD1	1:2:500:ASN:N	2.30	0.64
1:4:526:MET:HE2	1:4:575:ALA:HA	1.78	0.64
1:A:499:ASN:OD1	1:A:500:ASN:N	2.30	0.64
1:B:526:MET:HE2	1:B:575:ALA:HA	1.78	0.64
1:O:499:ASN:OD1	1:O:500:ASN:N	2.30	0.64
1:P:499:ASN:OD1	1:P:500:ASN:N	2.30	0.64
1:U:499:ASN:OD1	1:U:500:ASN:N	2.30	0.64
1:I:526:MET:HE2	1:I:575:ALA:HA	1.78	0.64
1:M:499:ASN:OD1	1:M:500:ASN:N	2.30	0.64
1:n:526:MET:HE2	1:n:575:ALA:HA	1.78	0.64
1:v:499:ASN:OD1	1:v:500:ASN:N	2.30	0.64
1:3:499:ASN:OD1	1:3:500:ASN:N	2.30	0.64
1:8:499:ASN:OD1	1:8:500:ASN:N	2.30	0.64
1:J:499:ASN:OD1	1:J:500:ASN:N	2.30	0.64
1:J:526:MET:HE2	1:J:575:ALA:HA	1.78	0.64
1:Z:499:ASN:OD1	1:Z:500:ASN:N	2.30	0.64
1:s:526:MET:HE2	1:s:575:ALA:HA	1.78	0.64
1:m:499:ASN:OD1	1:m:500:ASN:N	2.30	0.64
1:H:526:MET:HE2	1:H:575:ALA:HA	1.78	0.64
1:M:526:MET:HE2	1:M:575:ALA:HA	1.78	0.64
1:v:526:MET:HE2	1:v:575:ALA:HA	1.78	0.64
1:y:499:ASN:OD1	1:y:500:ASN:N	2.30	0.64
1:R:499:ASN:OD1	1:R:500:ASN:N	2.30	0.64
1:e:499:ASN:OD1	1:e:500:ASN:N	2.30	0.64
1:V:499:ASN:OD1	1:V:500:ASN:N	2.30	0.64
1:t:499:ASN:OD1	1:t:500:ASN:N	2.30	0.64
1:w:499:ASN:OD1	1:w:500:ASN:N	2.30	0.64
1:U:526:MET:HE2	1:U:575:ALA:HA	1.78	0.63
1:F:499:ASN:OD1	1:F:500:ASN:N	2.30	0.63
1:6:499:ASN:OD1	1:6:500:ASN:N	2.30	0.63
1:F:556:ASP:OD1	1:F:557:TYR:N	2.32	0.63
1:6:556:ASP:OD1	1:6:557:TYR:N	2.32	0.63
1:A:556:ASP:OD1	1:A:557:TYR:N	2.32	0.63
1:C:556:ASP:OD1	1:C:557:TYR:N	2.32	0.63
1:L:556:ASP:OD1	1:L:557:TYR:N	2.32	0.63
1:o:556:ASP:OD1	1:o:557:TYR:N	2.32	0.63
1:h:556:ASP:OD1	1:h:557:TYR:N	2.32	0.62
1:k:556:ASP:OD1	1:k:557:TYR:N	2.32	0.62
1:t:556:ASP:OD1	1:t:557:TYR:N	2.32	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:556:ASP:OD1	1:H:557:TYR:N	2.32	0.62
1:R:556:ASP:OD1	1:R:557:TYR:N	2.32	0.62
1:v:556:ASP:OD1	1:v:557:TYR:N	2.32	0.62
1:U:556:ASP:OD1	1:U:557:TYR:N	2.32	0.62
1:d:556:ASP:OD1	1:d:557:TYR:N	2.32	0.62
1:s:556:ASP:OD1	1:s:557:TYR:N	2.32	0.62
1:8:556:ASP:OD1	1:8:557:TYR:N	2.32	0.62
1:I:556:ASP:OD1	1:I:557:TYR:N	2.32	0.62
1:P:556:ASP:OD1	1:P:557:TYR:N	2.32	0.62
1:c:556:ASP:OD1	1:c:557:TYR:N	2.32	0.62
1:f:556:ASP:OD1	1:f:557:TYR:N	2.32	0.62
1:j:556:ASP:OD1	1:j:557:TYR:N	2.32	0.62
1:2:556:ASP:OD1	1:2:557:TYR:N	2.32	0.62
1:D:556:ASP:OD1	1:D:557:TYR:N	2.32	0.62
1:K:556:ASP:OD1	1:K:557:TYR:N	2.32	0.62
1:W:556:ASP:OD1	1:W:557:TYR:N	2.32	0.62
1:e:556:ASP:OD1	1:e:557:TYR:N	2.32	0.62
1:w:556:ASP:OD1	1:w:557:TYR:N	2.32	0.62
1:q:556:ASP:OD1	1:q:557:TYR:N	2.32	0.62
1:Y:556:ASP:OD1	1:Y:557:TYR:N	2.32	0.62
1:i:556:ASP:OD1	1:i:557:TYR:N	2.32	0.62
1:m:556:ASP:OD1	1:m:557:TYR:N	2.32	0.62
1:g:556:ASP:OD1	1:g:557:TYR:N	2.32	0.62
1:Z:556:ASP:OD1	1:Z:557:TYR:N	2.32	0.62
1:r:556:ASP:OD1	1:r:557:TYR:N	2.32	0.61
1:l:556:ASP:OD1	1:l:557:TYR:N	2.32	0.61
1:x:431:GLN:NE2	1:y:354:PRO:HB3	2.15	0.61
1:x:568:ILE:HD12	1:x:572:ASN:HD22	1.66	0.61
1:y:556:ASP:OD1	1:y:557:TYR:N	2.32	0.61
1:I:568:ILE:HD12	1:I:572:ASN:HD22	1.66	0.61
1:V:556:ASP:OD1	1:V:557:TYR:N	2.32	0.61
1:c:568:ILE:HD12	1:c:572:ASN:HD22	1.66	0.61
1:i:354:PRO:HB3	1:k:431:GLN:NE2	2.16	0.61
1:n:556:ASP:OD1	1:n:557:TYR:N	2.32	0.61
1:n:568:ILE:HD12	1:n:572:ASN:HD22	1.66	0.61
1:z:556:ASP:OD1	1:z:557:TYR:N	2.32	0.61
1:3:556:ASP:OD1	1:3:557:TYR:N	2.32	0.61
1:4:568:ILE:HD12	1:4:572:ASN:HD22	1.66	0.61
1:7:556:ASP:OD1	1:7:557:TYR:N	2.32	0.61
1:B:556:ASP:OD1	1:B:557:TYR:N	2.32	0.61
1:G:568:ILE:HD12	1:G:572:ASN:HD22	1.66	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:556:ASP:OD1	1:M:557:TYR:N	2.32	0.61
1:S:568:ILE:HD12	1:S:572:ASN:HD22	1.66	0.61
1:U:568:ILE:HD12	1:U:572:ASN:HD22	1.66	0.61
1:X:568:ILE:HD12	1:X:572:ASN:HD22	1.66	0.61
1:j:568:ILE:HD12	1:j:572:ASN:HD22	1.66	0.61
1:4:556:ASP:OD1	1:4:557:TYR:N	2.32	0.61
1:E:556:ASP:OD1	1:E:557:TYR:N	2.32	0.61
1:O:556:ASP:OD1	1:O:557:TYR:N	2.32	0.61
1:Q:556:ASP:OD1	1:Q:557:TYR:N	2.32	0.61
1:b:556:ASP:OD1	1:b:557:TYR:N	2.32	0.61
1:p:568:ILE:HD12	1:p:572:ASN:HD22	1.66	0.61
1:v:568:ILE:HD12	1:v:572:ASN:HD22	1.66	0.61
1:J:556:ASP:OD1	1:J:557:TYR:N	2.32	0.61
1:T:568:ILE:HD12	1:T:572:ASN:HD22	1.66	0.61
1:X:556:ASP:OD1	1:X:557:TYR:N	2.32	0.61
1:f:568:ILE:HD12	1:f:572:ASN:HD22	1.66	0.61
1:g:354:PRO:HB3	1:h:431:GLN:NE2	2.16	0.61
1:u:568:ILE:HD12	1:u:572:ASN:HD22	1.66	0.61
1:5:556:ASP:OD1	1:5:557:TYR:N	2.32	0.61
1:E:431:GLN:NE2	1:Q:354:PRO:HB3	2.16	0.61
1:Q:568:ILE:HD12	1:Q:572:ASN:HD22	1.66	0.61
1:W:568:ILE:HD12	1:W:572:ASN:HD22	1.66	0.61
1:q:568:ILE:HD12	1:q:572:ASN:HD22	1.66	0.61
1:u:556:ASP:OD1	1:u:557:TYR:N	2.32	0.61
1:1:568:ILE:HD12	1:1:572:ASN:HD22	1.66	0.61
1:D:354:PRO:HB3	1:P:431:GLN:NE2	2.16	0.61
1:G:556:ASP:OD1	1:G:557:TYR:N	2.32	0.61
1:H:568:ILE:HD12	1:H:572:ASN:HD22	1.66	0.61
1:R:354:PRO:HB3	1:U:431:GLN:NE2	2.16	0.61
1:V:568:ILE:HD12	1:V:572:ASN:HD22	1.66	0.61
1:s:568:ILE:HD12	1:s:572:ASN:HD22	1.66	0.61
1:x:556:ASP:OD1	1:x:557:TYR:N	2.32	0.61
1:5:568:ILE:HD12	1:5:572:ASN:HD22	1.66	0.61
1:R:431:GLN:NE2	1:S:354:PRO:HB3	2.16	0.60
1:S:556:ASP:OD1	1:S:557:TYR:N	2.32	0.60
1:d:431:GLN:NE2	1:l:354:PRO:HB3	2.16	0.60
1:l:568:ILE:HD12	1:l:572:ASN:HD22	1.66	0.60
1:z:354:PRO:HB3	1:2:431:GLN:NE2	2.16	0.60
1:5:354:PRO:HB3	1:7:431:GLN:NE2	2.16	0.60
1:7:568:ILE:HD12	1:7:572:ASN:HD22	1.66	0.60
1:C:354:PRO:HB3	1:M:431:GLN:NE2	2.16	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:568:ILE:HD12	1:J:572:ASN:HD22	1.66	0.60
1:K:354:PRO:HB3	1:8:431:GLN:NE2	2.16	0.60
1:M:568:ILE:HD12	1:M:572:ASN:HD22	1.66	0.60
1:P:568:ILE:HD12	1:P:572:ASN:HD22	1.66	0.60
1:a:556:ASP:OD1	1:a:557:TYR:N	2.32	0.60
1:i:568:ILE:HD12	1:i:572:ASN:HD22	1.66	0.60
1:p:556:ASP:OD1	1:p:557:TYR:N	2.32	0.60
1:u:431:GLN:NE2	1:v:354:PRO:HB3	2.16	0.60
1:E:568:ILE:HD12	1:E:572:ASN:HD22	1.66	0.60
1:N:568:ILE:HD12	1:N:572:ASN:HD22	1.66	0.60
1:O:431:GLN:NE2	1:m:354:PRO:HB3	2.16	0.60
1:S:431:GLN:NE2	1:U:354:PRO:HB3	2.17	0.60
1:T:556:ASP:OD1	1:T:557:TYR:N	2.32	0.60
1:Y:568:ILE:HD12	1:Y:572:ASN:HD22	1.66	0.60
1:a:568:ILE:HD12	1:a:572:ASN:HD22	1.66	0.60
1:t:354:PRO:HB3	1:v:431:GLN:NE2	2.16	0.60
1:t:431:GLN:NE2	1:u:354:PRO:HB3	2.16	0.60
1:z:568:ILE:HD12	1:z:572:ASN:HD22	1.66	0.60
1:8:568:ILE:HD12	1:8:572:ASN:HD22	1.66	0.60
1:g:568:ILE:HD12	1:g:572:ASN:HD22	1.66	0.60
1:r:568:ILE:HD12	1:r:572:ASN:HD22	1.66	0.60
1:y:568:ILE:HD12	1:y:572:ASN:HD22	1.66	0.60
1:1:556:ASP:OD1	1:1:557:TYR:N	2.32	0.60
1:B:354:PRO:HB3	1:L:431:GLN:NE2	2.16	0.60
1:C:431:GLN:NE2	1:b:354:PRO:HB3	2.16	0.60
1:D:431:GLN:NE2	1:N:354:PRO:HB3	2.16	0.60
1:N:431:GLN:NE2	1:P:354:PRO:HB3	2.16	0.60
1:N:556:ASP:OD1	1:N:557:TYR:N	2.32	0.60
1:O:568:ILE:HD12	1:O:572:ASN:HD22	1.66	0.60
1:Z:354:PRO:HB3	1:3:431:GLN:NE2	2.17	0.60
1:J:431:GLN:NE2	1:L:354:PRO:HB3	2.16	0.60
1:a:431:GLN:NE2	1:8:354:PRO:HB3	2.16	0.60
1:3:568:ILE:HD12	1:3:572:ASN:HD22	1.66	0.60
1:5:531:ASP:OD1	1:5:569:LYS:NZ	2.35	0.60
1:F:354:PRO:HB3	1:Q:431:GLN:NE2	2.16	0.60
1:Q:531:ASP:OD1	1:Q:569:LYS:NZ	2.35	0.60
1:j:531:ASP:OD1	1:j:569:LYS:NZ	2.35	0.60
1:K:431:GLN:NE2	1:a:354:PRO:HB3	2.17	0.60
1:T:431:GLN:NE2	1:d:354:PRO:HB3	2.16	0.60
1:Z:568:ILE:HD12	1:Z:572:ASN:HD22	1.66	0.60
1:f:531:ASP:OD1	1:f:569:LYS:NZ	2.35	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:m:531:ASP:OD1	1:m:569:LYS:NZ	2.35	0.60
1:r:431:GLN:NE2	1:s:354:PRO:HB3	2.16	0.60
1:5:431:GLN:NE2	1:6:354:PRO:HB3	2.16	0.60
1:V:354:PRO:HB3	1:X:431:GLN:NE2	2.16	0.60
1:Z:531:ASP:OD1	1:Z:569:LYS:NZ	2.35	0.60
1:m:568:ILE:HD12	1:m:572:ASN:HD22	1.66	0.60
1:r:531:ASP:OD1	1:r:569:LYS:NZ	2.35	0.60
1:H:531:ASP:OD1	1:H:569:LYS:NZ	2.35	0.60
1:R:568:ILE:HD12	1:R:572:ASN:HD22	1.66	0.60
1:W:531:ASP:OD1	1:W:569:LYS:NZ	2.35	0.60
1:Y:531:ASP:OD1	1:Y:569:LYS:NZ	2.35	0.60
1:o:531:ASP:OD1	1:o:569:LYS:NZ	2.35	0.60
1:6:568:ILE:HD12	1:6:572:ASN:HD22	1.66	0.60
1:A:531:ASP:OD1	1:A:569:LYS:NZ	2.35	0.59
1:F:568:ILE:HD12	1:F:572:ASN:HD22	1.66	0.59
1:H:354:PRO:HB3	1:Y:431:GLN:NE2	2.16	0.59
1:X:354:PRO:HB3	1:e:431:GLN:NE2	2.16	0.59
1:q:531:ASP:OD1	1:q:569:LYS:NZ	2.35	0.59
1:s:531:ASP:OD1	1:s:569:LYS:NZ	2.35	0.59
1:I:531:ASP:OD1	1:I:569:LYS:NZ	2.35	0.59
1:L:568:ILE:HD12	1:L:572:ASN:HD22	1.66	0.59
1:S:531:ASP:OD1	1:S:569:LYS:NZ	2.35	0.59
1:b:531:ASP:OD1	1:b:569:LYS:NZ	2.35	0.59
1:n:531:ASP:OD1	1:n:569:LYS:NZ	2.35	0.59
1:t:568:ILE:HD12	1:t:572:ASN:HD22	1.66	0.59
1:u:531:ASP:OD1	1:u:569:LYS:NZ	2.35	0.59
1:1:431:GLN:NE2	1:2:354:PRO:HB3	2.17	0.59
1:4:531:ASP:OD1	1:4:569:LYS:NZ	2.35	0.59
1:C:568:ILE:HD12	1:C:572:ASN:HD22	1.66	0.59
1:V:431:GLN:NE2	1:e:354:PRO:HB3	2.16	0.59
1:c:354:PRO:HB3	1:p:431:GLN:NE2	2.16	0.59
1:d:568:ILE:HD12	1:d:572:ASN:HD22	1.66	0.59
1:h:568:ILE:HD12	1:h:572:ASN:HD22	1.66	0.59
1:m:431:GLN:NE2	1:n:354:PRO:HB3	2.16	0.59
1:A:568:ILE:HD12	1:A:572:ASN:HD22	1.66	0.59
1:B:431:GLN:NE2	1:J:354:PRO:HB3	2.16	0.59
1:B:531:ASP:OD1	1:B:569:LYS:NZ	2.35	0.59
1:B:568:ILE:HD12	1:B:572:ASN:HD22	1.66	0.59
1:E:354:PRO:HB3	1:F:431:GLN:NE2	2.16	0.59
1:G:431:GLN:NE2	1:I:354:PRO:HB3	2.17	0.59
1:T:354:PRO:HB3	1:l:431:GLN:NE2	2.16	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:o:568:ILE:HD12	1:o:572:ASN:HD22	1.66	0.59
1:q:431:GLN:NE2	1:r:354:PRO:HB3	2.16	0.59
1:E:451:THR:HG21	1:Q:503:PHE:CE2	2.38	0.59
1:M:354:PRO:HB3	1:b:431:GLN:NE2	2.16	0.59
1:S:451:THR:HG21	1:U:503:PHE:CE2	2.38	0.59
1:Z:431:GLN:NE2	1:4:354:PRO:HB3	2.16	0.59
1:i:431:GLN:NE2	1:j:354:PRO:HB3	2.16	0.59
1:z:431:GLN:NE2	1:1:354:PRO:HB3	2.16	0.59
1:B:503:PHE:CE2	1:L:451:THR:HG21	2.38	0.59
1:H:503:PHE:CE2	1:Y:451:THR:HG21	2.38	0.59
1:O:451:THR:HG21	1:m:503:PHE:CE2	2.38	0.59
1:Y:512:HIS:ND1	1:Y:517:ASP:OD1	2.35	0.59
1:b:568:ILE:HD12	1:b:572:ASN:HD22	1.66	0.59
1:c:431:GLN:NE2	1:o:354:PRO:HB3	2.16	0.59
1:e:568:ILE:HD12	1:e:572:ASN:HD22	1.66	0.59
1:r:451:THR:HG21	1:s:503:PHE:CE2	2.38	0.59
1:r:512:HIS:ND1	1:r:517:ASP:OD1	2.35	0.59
1:w:568:ILE:HD12	1:w:572:ASN:HD22	1.66	0.59
1:2:568:ILE:HD12	1:2:572:ASN:HD22	1.66	0.59
1:R:503:PHE:CE2	1:U:451:THR:HG21	2.38	0.59
1:e:512:HIS:ND1	1:e:517:ASP:OD1	2.35	0.59
1:f:354:PRO:HB3	1:g:431:GLN:NE2	2.16	0.59
1:k:568:ILE:HD12	1:k:572:ASN:HD22	1.66	0.59
1:w:354:PRO:HB3	1:y:431:GLN:NE2	2.16	0.59
1:w:512:HIS:ND1	1:w:517:ASP:OD1	2.35	0.59
1:6:431:GLN:NE2	1:7:354:PRO:HB3	2.17	0.59
1:A:431:GLN:NE2	1:G:354:PRO:HB3	2.16	0.59
1:A:503:PHE:CE2	1:I:451:THR:HG21	2.38	0.59
1:C:451:THR:HG21	1:b:503:PHE:CE2	2.38	0.59
1:H:451:THR:HG21	1:W:503:PHE:CE2	2.38	0.59
1:K:568:ILE:HD12	1:K:572:ASN:HD22	1.66	0.59
1:O:354:PRO:HB3	1:n:431:GLN:NE2	2.16	0.59
1:U:531:ASP:OD1	1:U:569:LYS:NZ	2.35	0.59
1:f:431:GLN:NE2	1:h:354:PRO:HB3	2.16	0.59
1:W:431:GLN:NE2	1:Y:354:PRO:HB3	2.16	0.59
1:j:431:GLN:NE2	1:k:354:PRO:HB3	2.16	0.59
1:o:431:GLN:NE2	1:p:354:PRO:HB3	2.16	0.59
1:q:503:PHE:CE2	1:s:451:THR:HG21	2.38	0.59
1:3:512:HIS:ND1	1:3:517:ASP:OD1	2.35	0.59
1:A:354:PRO:HB3	1:I:431:GLN:NE2	2.17	0.59
1:E:503:PHE:CE2	1:F:451:THR:HG21	2.38	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:503:PHE:CE2	1:Q:451:THR:HG21	2.38	0.59
1:K:531:ASP:OD1	1:K:569:LYS:NZ	2.35	0.59
1:L:531:ASP:OD1	1:L:569:LYS:NZ	2.35	0.59
1:N:451:THR:HG21	1:P:503:PHE:CE2	2.38	0.59
1:O:512:HIS:ND1	1:O:517:ASP:OD1	2.35	0.59
1:Z:503:PHE:CE2	1:3:451:THR:HG21	2.38	0.59
1:c:451:THR:HG21	1:o:503:PHE:CE2	2.38	0.59
1:e:531:ASP:OD1	1:e:569:LYS:NZ	2.35	0.59
1:v:531:ASP:OD1	1:v:569:LYS:NZ	2.35	0.59
1:8:512:HIS:ND1	1:8:517:ASP:OD1	2.35	0.59
1:A:451:THR:HG21	1:G:503:PHE:CE2	2.38	0.58
1:D:531:ASP:OD1	1:D:569:LYS:NZ	2.35	0.58
1:G:451:THR:HG21	1:I:503:PHE:CE2	2.38	0.58
1:P:425:SER:HB2	1:P:427:TYR:CE2	2.38	0.58
1:P:512:HIS:ND1	1:P:517:ASP:OD1	2.35	0.58
1:Y:425:SER:HB2	1:Y:427:TYR:CE2	2.38	0.58
1:c:503:PHE:CE2	1:p:451:THR:HG21	2.38	0.58
1:g:503:PHE:CE2	1:h:451:THR:HG21	2.38	0.58
1:i:503:PHE:CE2	1:k:451:THR:HG21	2.38	0.58
1:r:425:SER:HB2	1:r:427:TYR:CE2	2.38	0.58
1:t:503:PHE:CE2	1:v:451:THR:HG21	2.38	0.58
1:u:451:THR:HG21	1:v:503:PHE:CE2	2.38	0.58
1:w:431:GLN:NE2	1:x:354:PRO:HB3	2.17	0.58
1:5:503:PHE:CE2	1:7:451:THR:HG21	2.38	0.58
1:C:531:ASP:OD1	1:C:569:LYS:NZ	2.35	0.58
1:D:427:TYR:H	1:D:732:ARG:HG2	1.68	0.58
1:G:425:SER:HB2	1:G:427:TYR:CE2	2.38	0.58
1:J:425:SER:HB2	1:J:427:TYR:CE2	2.38	0.58
1:M:425:SER:HB2	1:M:427:TYR:CE2	2.38	0.58
1:R:451:THR:HG21	1:S:503:PHE:CE2	2.38	0.58
1:V:503:PHE:CE2	1:X:451:THR:HG21	2.38	0.58
1:W:425:SER:HB2	1:W:427:TYR:CE2	2.38	0.58
1:n:425:SER:HB2	1:n:427:TYR:CE2	2.38	0.58
1:p:425:SER:HB2	1:p:427:TYR:CE2	2.38	0.58
1:q:425:SER:HB2	1:q:427:TYR:CE2	2.38	0.58
1:v:427:TYR:H	1:v:732:ARG:HG2	1.68	0.58
1:z:427:TYR:H	1:z:732:ARG:HG2	1.69	0.58
1:5:425:SER:HB2	1:5:427:TYR:CE2	2.38	0.58
1:8:425:SER:HB2	1:8:427:TYR:CE2	2.39	0.58
1:C:425:SER:HB2	1:C:427:TYR:CE2	2.38	0.58
1:D:568:ILE:HD12	1:D:572:ASN:HD22	1.66	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:425:SER:HB2	1:H:427:TYR:CE2	2.38	0.58
1:K:427:TYR:H	1:K:732:ARG:HG2	1.68	0.58
1:L:425:SER:HB2	1:L:427:TYR:CE2	2.38	0.58
1:L:427:TYR:H	1:L:732:ARG:HG2	1.69	0.58
1:O:657:PRO:HD2	1:d:678:THR:HG21	1.86	0.58
1:Q:425:SER:HB2	1:Q:427:TYR:CE2	2.38	0.58
1:T:425:SER:HB2	1:T:427:TYR:CE2	2.38	0.58
1:U:427:TYR:H	1:U:732:ARG:HG2	1.69	0.58
1:Y:427:TYR:H	1:Y:732:ARG:HG2	1.69	0.58
1:a:512:HIS:ND1	1:a:517:ASP:OD1	2.35	0.58
1:l:427:TYR:H	1:l:732:ARG:HG2	1.69	0.58
1:t:531:ASP:OD1	1:t:569:LYS:NZ	2.35	0.58
1:x:531:ASP:OD1	1:x:569:LYS:NZ	2.35	0.58
1:3:354:PRO:HB3	1:4:431:GLN:NE2	2.17	0.58
1:D:425:SER:HB2	1:D:427:TYR:CE2	2.38	0.58
1:H:431:GLN:NE2	1:W:354:PRO:HB3	2.16	0.58
1:J:427:TYR:H	1:J:732:ARG:HG2	1.69	0.58
1:M:427:TYR:H	1:M:732:ARG:HG2	1.69	0.58
1:R:531:ASP:OD1	1:R:569:LYS:NZ	2.35	0.58
1:R:657:PRO:HD2	1:V:678:THR:HG21	1.86	0.58
1:T:427:TYR:H	1:T:732:ARG:HG2	1.69	0.58
1:T:512:HIS:ND1	1:T:517:ASP:OD1	2.35	0.58
1:X:531:ASP:OD1	1:X:569:LYS:NZ	2.35	0.58
1:d:451:THR:HG21	1:l:503:PHE:CE2	2.38	0.58
1:j:451:THR:HG21	1:k:503:PHE:CE2	2.38	0.58
1:o:451:THR:HG21	1:p:503:PHE:CE2	2.38	0.58
1:q:354:PRO:HB3	1:s:431:GLN:NE2	2.16	0.58
1:r:427:TYR:H	1:r:732:ARG:HG2	1.69	0.58
1:s:425:SER:HB2	1:s:427:TYR:CE2	2.38	0.58
1:w:427:TYR:H	1:w:732:ARG:HG2	1.68	0.58
1:1:425:SER:HB2	1:1:427:TYR:CE2	2.38	0.58
1:1:427:TYR:H	1:1:732:ARG:HG2	1.69	0.58
1:4:425:SER:HB2	1:4:427:TYR:CE2	2.38	0.58
1:6:425:SER:HB2	1:6:427:TYR:CE2	2.38	0.58
1:6:451:THR:HG21	1:7:503:PHE:CE2	2.38	0.58
1:7:427:TYR:H	1:7:732:ARG:HG2	1.69	0.58
1:C:427:TYR:H	1:C:732:ARG:HG2	1.69	0.58
1:E:427:TYR:H	1:E:732:ARG:HG2	1.69	0.58
1:F:425:SER:HB2	1:F:427:TYR:CE2	2.38	0.58
1:G:427:TYR:H	1:G:732:ARG:HG2	1.69	0.58
1:H:427:TYR:H	1:H:732:ARG:HG2	1.69	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:425:SER:HB2	1:K:427:TYR:CE2	2.39	0.58
1:N:512:HIS:ND1	1:N:517:ASP:OD1	2.35	0.58
1:O:425:SER:HB2	1:O:427:TYR:CE2	2.38	0.58
1:R:512:HIS:ND1	1:R:517:ASP:OD1	2.35	0.58
1:d:531:ASP:OD1	1:d:569:LYS:NZ	2.35	0.58
1:f:503:PHE:CE2	1:g:451:THR:HG21	2.38	0.58
1:i:451:THR:HG21	1:j:503:PHE:CE2	2.38	0.58
1:p:427:TYR:H	1:p:732:ARG:HG2	1.69	0.58
1:t:657:PRO:HD2	1:y:678:THR:HG21	1.86	0.58
1:1:512:HIS:ND1	1:1:517:ASP:OD1	2.35	0.58
1:1:531:ASP:OD1	1:1:569:LYS:NZ	2.35	0.58
1:5:451:THR:HG21	1:6:503:PHE:CE2	2.38	0.58
1:E:512:HIS:ND1	1:E:517:ASP:OD1	2.35	0.58
1:E:531:ASP:OD1	1:E:569:LYS:NZ	2.35	0.58
1:O:531:ASP:OD1	1:O:569:LYS:NZ	2.35	0.58
1:T:503:PHE:CE2	1:l:451:THR:HG21	2.38	0.58
1:T:531:ASP:OD1	1:T:569:LYS:NZ	2.35	0.58
1:V:451:THR:HG21	1:e:503:PHE:CE2	2.39	0.58
1:a:451:THR:HG21	1:8:503:PHE:CE2	2.39	0.58
1:c:657:PRO:HD2	1:s:678:THR:HG21	1.86	0.58
1:e:678:THR:HG21	1:h:657:PRO:HD2	1.85	0.58
1:m:451:THR:HG21	1:n:503:PHE:CE2	2.38	0.58
1:s:427:TYR:H	1:s:732:ARG:HG2	1.69	0.58
1:t:451:THR:HG21	1:u:503:PHE:CE2	2.38	0.58
1:t:512:HIS:ND1	1:t:517:ASP:OD1	2.35	0.58
1:v:657:PRO:HD2	1:1:678:THR:HG21	1.86	0.58
1:x:425:SER:HB2	1:x:427:TYR:CE2	2.38	0.58
1:3:425:SER:HB2	1:3:427:TYR:CE2	2.39	0.58
1:J:678:THR:HG21	1:a:657:PRO:HD2	1.86	0.58
1:K:451:THR:HG21	1:a:503:PHE:CE2	2.39	0.58
1:N:531:ASP:OD1	1:N:569:LYS:NZ	2.35	0.58
1:U:425:SER:HB2	1:U:427:TYR:CE2	2.38	0.58
1:X:425:SER:HB2	1:X:427:TYR:CE2	2.38	0.58
1:d:425:SER:HB2	1:d:427:TYR:CE2	2.38	0.58
1:e:427:TYR:H	1:e:732:ARG:HG2	1.69	0.58
1:h:678:THR:HG21	1:i:657:PRO:HD2	1.86	0.58
1:m:678:THR:HG21	1:s:657:PRO:HD2	1.86	0.58
1:z:503:PHE:CE2	1:2:451:THR:HG21	2.38	0.58
1:2:425:SER:HB2	1:2:427:TYR:CE2	2.38	0.58
1:2:531:ASP:OD1	1:2:569:LYS:NZ	2.35	0.58
1:7:512:HIS:ND1	1:7:517:ASP:OD1	2.35	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:451:THR:HG21	1:N:503:PHE:CE2	2.39	0.58
1:H:678:THR:HG21	1:I:657:PRO:HD2	1.86	0.58
1:K:503:PHE:CE2	1:8:451:THR:HG21	2.39	0.58
1:M:678:THR:HG21	1:N:657:PRO:HD2	1.86	0.58
1:R:425:SER:HB2	1:R:427:TYR:CE2	2.38	0.58
1:R:427:TYR:H	1:R:732:ARG:HG2	1.69	0.58
1:T:451:THR:HG21	1:d:503:PHE:CE2	2.38	0.58
1:a:531:ASP:OD1	1:a:569:LYS:NZ	2.35	0.58
1:f:451:THR:HG21	1:h:503:PHE:CE2	2.38	0.58
1:i:425:SER:HB2	1:i:427:TYR:CE2	2.38	0.58
1:j:657:PRO:HD2	1:l:678:THR:HG21	1.86	0.58
1:t:427:TYR:H	1:t:732:ARG:HG2	1.69	0.58
1:v:425:SER:HB2	1:v:427:TYR:CE2	2.38	0.58
1:x:592:ALA:HA	1:y:499:ASN:HD22	1.68	0.58
1:2:678:THR:HG21	1:3:657:PRO:HD2	1.86	0.58
1:7:531:ASP:OD1	1:7:569:LYS:NZ	2.35	0.58
1:H:657:PRO:HD2	1:Z:678:THR:HG21	1.86	0.58
1:I:425:SER:HB2	1:I:427:TYR:CE2	2.38	0.58
1:O:503:PHE:CE2	1:n:451:THR:HG21	2.38	0.58
1:S:678:THR:HG21	1:d:657:PRO:HD2	1.86	0.58
1:X:503:PHE:CE2	1:e:451:THR:HG21	2.38	0.58
1:X:678:THR:HG21	1:Y:657:PRO:HD2	1.86	0.58
1:Z:427:TYR:H	1:Z:732:ARG:HG2	1.69	0.58
1:c:425:SER:HB2	1:c:427:TYR:CE2	2.38	0.58
1:g:425:SER:HB2	1:g:427:TYR:CE2	2.38	0.58
1:g:678:THR:HG21	1:1:657:PRO:HD2	1.86	0.58
1:j:427:TYR:H	1:j:732:ARG:HG2	1.68	0.58
1:r:400:TYR:OH	1:x:298:ASP:OD2	2.22	0.58
1:w:425:SER:HB2	1:w:427:TYR:CE2	2.38	0.58
1:z:451:THR:HG21	1:1:503:PHE:CE2	2.38	0.58
1:3:531:ASP:OD1	1:3:569:LYS:NZ	2.35	0.58
1:6:427:TYR:H	1:6:732:ARG:HG2	1.68	0.58
1:6:531:ASP:OD1	1:6:569:LYS:NZ	2.35	0.58
1:B:425:SER:HB2	1:B:427:TYR:CE2	2.38	0.58
1:B:451:THR:HG21	1:J:503:PHE:CE2	2.38	0.58
1:C:503:PHE:CE2	1:M:451:THR:HG21	2.38	0.58
1:D:503:PHE:CE2	1:P:451:THR:HG21	2.39	0.58
1:I:427:TYR:H	1:I:732:ARG:HG2	1.69	0.58
1:M:503:PHE:CE2	1:b:451:THR:HG21	2.38	0.58
1:N:427:TYR:H	1:N:732:ARG:HG2	1.69	0.58
1:S:425:SER:HB2	1:S:427:TYR:CE2	2.38	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:T:657:PRO:HD2	1:i:678:THR:HG21	1.86	0.58
1:V:425:SER:HB2	1:V:427:TYR:CE2	2.38	0.58
1:W:451:THR:HG21	1:Y:503:PHE:CE2	2.38	0.58
1:Y:678:THR:HG21	1:4:657:PRO:HD2	1.86	0.58
1:a:427:TYR:H	1:a:732:ARG:HG2	1.69	0.58
1:g:657:PRO:HD2	1:k:678:THR:HG21	1.86	0.58
1:m:427:TYR:H	1:m:732:ARG:HG2	1.69	0.58
1:q:451:THR:HG21	1:r:503:PHE:CE2	2.38	0.58
1:t:425:SER:HB2	1:t:427:TYR:CE2	2.38	0.58
1:u:425:SER:HB2	1:u:427:TYR:CE2	2.38	0.58
1:w:503:PHE:CE2	1:y:451:THR:HG21	2.39	0.58
1:y:425:SER:HB2	1:y:427:TYR:CE2	2.38	0.58
1:y:427:TYR:H	1:y:732:ARG:HG2	1.69	0.58
1:1:451:THR:HG21	1:2:503:PHE:CE2	2.38	0.58
1:4:512:HIS:ND1	1:4:517:ASP:OD1	2.35	0.58
1:A:425:SER:HB2	1:A:427:TYR:CE2	2.38	0.57
1:A:427:TYR:H	1:A:732:ARG:HG2	1.69	0.57
1:F:427:TYR:H	1:F:732:ARG:HG2	1.69	0.57
1:F:531:ASP:OD1	1:F:569:LYS:NZ	2.35	0.57
1:G:678:THR:HG21	1:W:657:PRO:HD2	1.86	0.57
1:J:451:THR:HG21	1:L:503:PHE:CE2	2.38	0.57
1:L:512:HIS:ND1	1:L:517:ASP:OD1	2.35	0.57
1:P:678:THR:HG21	1:Q:657:PRO:HD2	1.86	0.57
1:T:678:THR:HG21	1:U:657:PRO:HD2	1.86	0.57
1:Z:451:THR:HG21	1:4:503:PHE:CE2	2.38	0.57
1:b:425:SER:HB2	1:b:427:TYR:CE2	2.38	0.57
1:e:425:SER:HB2	1:e:427:TYR:CE2	2.38	0.57
1:f:427:TYR:H	1:f:732:ARG:HG2	1.69	0.57
1:f:657:PRO:HD2	1:z:678:THR:HG21	1.86	0.57
1:i:531:ASP:OD1	1:i:569:LYS:NZ	2.35	0.57
1:o:427:TYR:H	1:o:732:ARG:HG2	1.69	0.57
1:q:427:TYR:H	1:q:732:ARG:HG2	1.69	0.57
1:C:512:HIS:ND1	1:C:517:ASP:OD1	2.35	0.57
1:V:427:TYR:H	1:V:732:ARG:HG2	1.69	0.57
1:c:427:TYR:H	1:c:732:ARG:HG2	1.69	0.57
1:d:427:TYR:H	1:d:732:ARG:HG2	1.69	0.57
1:n:512:HIS:ND1	1:n:517:ASP:OD1	2.35	0.57
1:t:678:THR:HG21	1:6:657:PRO:HD2	1.86	0.57
1:u:512:HIS:ND1	1:u:517:ASP:OD1	2.35	0.57
1:w:531:ASP:OD1	1:w:569:LYS:NZ	2.35	0.57
1:x:427:TYR:H	1:x:732:ARG:HG2	1.69	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:2:427:TYR:H	1:2:732:ARG:HG2	1.69	0.57
1:8:531:ASP:OD1	1:8:569:LYS:NZ	2.35	0.57
1:B:427:TYR:H	1:B:732:ARG:HG2	1.69	0.57
1:E:425:SER:HB2	1:E:427:TYR:CE2	2.38	0.57
1:F:657:PRO:HD2	1:R:678:THR:HG21	1.86	0.57
1:N:678:THR:HG21	1:m:657:PRO:HD2	1.86	0.57
1:P:531:ASP:OD1	1:P:569:LYS:NZ	2.35	0.57
1:S:512:HIS:ND1	1:S:517:ASP:OD1	2.35	0.57
1:Z:657:PRO:HD2	1:a:678:THR:HG21	1.86	0.57
1:b:427:TYR:H	1:b:732:ARG:HG2	1.69	0.57
1:c:531:ASP:OD1	1:c:569:LYS:NZ	2.35	0.57
1:g:427:TYR:H	1:g:732:ARG:HG2	1.69	0.57
1:g:531:ASP:OD1	1:g:569:LYS:NZ	2.35	0.57
1:h:425:SER:HB2	1:h:427:TYR:CE2	2.38	0.57
1:k:425:SER:HB2	1:k:427:TYR:CE2	2.38	0.57
1:o:425:SER:HB2	1:o:427:TYR:CE2	2.38	0.57
1:p:678:THR:HG21	1:q:657:PRO:HD2	1.86	0.57
1:u:678:THR:HG21	1:2:657:PRO:HD2	1.86	0.57
1:z:425:SER:HB2	1:z:427:TYR:CE2	2.38	0.57
1:z:657:PRO:HD2	1:4:678:THR:HG21	1.86	0.57
1:H:512:HIS:ND1	1:H:517:ASP:OD1	2.35	0.57
1:M:531:ASP:OD1	1:M:569:LYS:NZ	2.35	0.57
1:N:425:SER:HB2	1:N:427:TYR:CE2	2.38	0.57
1:W:427:TYR:H	1:W:732:ARG:HG2	1.69	0.57
1:a:425:SER:HB2	1:a:427:TYR:CE2	2.38	0.57
1:i:427:TYR:H	1:i:732:ARG:HG2	1.69	0.57
1:l:425:SER:HB2	1:l:427:TYR:CE2	2.38	0.57
1:n:657:PRO:HD2	1:r:678:THR:HG21	1.86	0.57
1:v:678:THR:HG21	1:w:657:PRO:HD2	1.86	0.57
1:5:657:PRO:HD2	1:8:678:THR:HG21	1.86	0.57
1:J:512:HIS:ND1	1:J:517:ASP:OD1	2.35	0.57
1:J:531:ASP:OD1	1:J:569:LYS:NZ	2.35	0.57
1:V:531:ASP:OD1	1:V:569:LYS:NZ	2.35	0.57
1:V:657:PRO:HD2	1:W:678:THR:HG21	1.86	0.57
1:X:427:TYR:H	1:X:732:ARG:HG2	1.69	0.57
1:Z:425:SER:HB2	1:Z:427:TYR:CE2	2.38	0.57
1:c:416:TYR:OH	1:c:644:HIS:O	2.20	0.57
1:f:425:SER:HB2	1:f:427:TYR:CE2	2.38	0.57
1:k:400:TYR:OH	1:w:298:ASP:OD2	2.23	0.57
1:r:657:PRO:HD2	1:x:678:THR:HG21	1.86	0.57
1:3:503:PHE:CE2	1:4:451:THR:HG21	2.38	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:7:425:SER:HB2	1:7:427:TYR:CE2	2.39	0.57
1:8:427:TYR:H	1:8:732:ARG:HG2	1.68	0.57
1:I:416:TYR:OH	1:I:644:HIS:O	2.21	0.57
1:M:512:HIS:ND1	1:M:517:ASP:OD1	2.35	0.57
1:U:678:THR:HG21	1:e:657:PRO:HD2	1.86	0.57
1:X:416:TYR:OH	1:X:644:HIS:O	2.21	0.57
1:g:400:TYR:OH	1:k:298:ASP:OD2	2.23	0.57
1:j:425:SER:HB2	1:j:427:TYR:CE2	2.38	0.57
1:l:657:PRO:HD2	1:n:678:THR:HG21	1.86	0.57
1:5:400:TYR:OH	1:8:298:ASP:OD2	2.23	0.57
1:D:499:ASN:HD22	1:P:592:ALA:HA	1.70	0.57
1:M:400:TYR:OH	1:c:298:ASP:OD2	2.23	0.57
1:P:427:TYR:H	1:P:732:ARG:HG2	1.69	0.57
1:k:657:PRO:HD2	1:w:678:THR:HG21	1.86	0.57
1:l:531:ASP:OD1	1:l:569:LYS:NZ	2.35	0.57
1:m:425:SER:HB2	1:m:427:TYR:CE2	2.38	0.57
1:s:512:HIS:ND1	1:s:517:ASP:OD1	2.35	0.57
1:y:531:ASP:OD1	1:y:569:LYS:NZ	2.35	0.57
1:I:678:THR:HG21	1:J:657:PRO:HD2	1.86	0.57
1:P:298:ASP:OD2	1:Q:400:TYR:OH	2.23	0.57
1:S:298:ASP:OD2	1:d:400:TYR:OH	2.23	0.57
1:Z:512:HIS:ND1	1:Z:517:ASP:OD1	2.35	0.57
1:h:298:ASP:OD2	1:i:400:TYR:OH	2.23	0.57
1:j:678:THR:HG21	1:x:657:PRO:HD2	1.86	0.57
1:q:678:THR:HG21	1:y:657:PRO:HD2	1.86	0.57
1:u:298:ASP:OD2	1:2:400:TYR:OH	2.23	0.57
1:u:427:TYR:H	1:u:732:ARG:HG2	1.69	0.57
1:x:589:GLN:HA	1:y:499:ASN:HA	1.87	0.57
1:z:531:ASP:OD1	1:z:569:LYS:NZ	2.35	0.57
1:3:678:THR:HG21	1:8:657:PRO:HD2	1.86	0.57
1:M:657:PRO:HD2	1:c:678:THR:HG21	1.86	0.57
1:i:512:HIS:ND1	1:i:517:ASP:OD1	2.35	0.57
1:l:416:TYR:OH	1:l:644:HIS:O	2.21	0.57
1:w:451:THR:HG21	1:x:503:PHE:CE2	2.40	0.57
1:z:400:TYR:OH	1:4:298:ASP:OD2	2.23	0.57
1:5:427:TYR:H	1:5:732:ARG:HG2	1.69	0.57
1:I:298:ASP:OD2	1:J:400:TYR:OH	2.23	0.57
1:K:499:ASN:HD22	1:8:592:ALA:HA	1.70	0.57
1:Q:427:TYR:H	1:Q:732:ARG:HG2	1.69	0.57
1:Q:678:THR:HG21	1:S:657:PRO:HD2	1.86	0.57
1:S:427:TYR:H	1:S:732:ARG:HG2	1.69	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:X:657:PRO:HD2	1:f:678:THR:HG21	1.86	0.57
1:h:427:TYR:H	1:h:732:ARG:HG2	1.69	0.57
1:l:400:TYR:OH	1:n:298:ASP:OD2	2.23	0.57
1:m:512:HIS:ND1	1:m:517:ASP:OD1	2.35	0.57
1:4:427:TYR:H	1:4:732:ARG:HG2	1.69	0.57
1:A:657:PRO:HD2	1:B:678:THR:HG21	1.86	0.56
1:B:657:PRO:HD2	1:C:678:THR:HG21	1.86	0.56
1:D:657:PRO:HD2	1:E:678:THR:HG21	1.86	0.56
1:F:678:THR:HG21	1:G:657:PRO:HD2	1.86	0.56
1:X:298:ASP:OD2	1:Y:400:TYR:OH	2.23	0.56
1:d:416:TYR:OH	1:d:644:HIS:O	2.21	0.56
1:k:427:TYR:H	1:k:732:ARG:HG2	1.69	0.56
1:p:512:HIS:ND1	1:p:517:ASP:OD1	2.35	0.56
1:p:531:ASP:OD1	1:p:569:LYS:NZ	2.35	0.56
1:z:416:TYR:OH	1:z:644:HIS:O	2.20	0.56
1:3:427:TYR:H	1:3:732:ARG:HG2	1.69	0.56
1:G:512:HIS:ND1	1:G:517:ASP:OD1	2.35	0.56
1:K:657:PRO:HD2	1:7:678:THR:HG21	1.86	0.56
1:L:678:THR:HG21	1:b:657:PRO:HD2	1.86	0.56
1:O:427:TYR:H	1:O:732:ARG:HG2	1.69	0.56
1:O:678:THR:HG21	1:P:657:PRO:HD2	1.86	0.56
1:e:298:ASP:OD2	1:h:400:TYR:OH	2.23	0.56
1:g:512:HIS:ND1	1:g:517:ASP:OD1	2.35	0.56
1:p:657:PRO:HD2	1:6:678:THR:HG21	1.86	0.56
1:q:298:ASP:OD2	1:y:400:TYR:OH	2.23	0.56
1:u:657:PRO:HD2	1:5:678:THR:HG21	1.86	0.56
1:x:592:ALA:HA	1:y:499:ASN:ND2	2.20	0.56
1:2:512:HIS:ND1	1:2:517:ASP:OD1	2.35	0.56
1:A:400:TYR:OH	1:B:298:ASP:OD2	2.23	0.56
1:G:531:ASP:OD1	1:G:569:LYS:NZ	2.35	0.56
1:O:416:TYR:OH	1:O:644:HIS:O	2.21	0.56
1:O:499:ASN:HA	1:n:589:GLN:HA	1.88	0.56
1:V:400:TYR:OH	1:W:298:ASP:OD2	2.23	0.56
1:a:592:ALA:HA	1:8:499:ASN:HD22	1.70	0.56
1:b:678:THR:HG21	1:o:657:PRO:HD2	1.86	0.56
1:d:512:HIS:ND1	1:d:517:ASP:OD1	2.35	0.56
1:h:531:ASP:OD1	1:h:569:LYS:NZ	2.35	0.56
1:n:427:TYR:H	1:n:732:ARG:HG2	1.69	0.56
1:u:592:ALA:HA	1:v:499:ASN:HD22	1.71	0.56
1:w:499:ASN:HD22	1:y:592:ALA:HA	1.70	0.56
1:w:592:ALA:HA	1:x:499:ASN:HD22	1.70	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:2:416:TYR:OH	1:2:644:HIS:O	2.21	0.56
1:3:416:TYR:OH	1:3:644:HIS:O	2.20	0.56
1:3:499:ASN:HD22	1:4:592:ALA:HA	1.71	0.56
1:A:298:ASP:OD2	1:E:400:TYR:OH	2.23	0.56
1:A:678:THR:HG21	1:E:657:PRO:HD2	1.86	0.56
1:x:586:LEU:HD23	1:y:490:ARG:NH1	2.21	0.56
1:z:512:HIS:ND1	1:z:517:ASP:OD1	2.35	0.56
1:5:592:ALA:HA	1:6:499:ASN:HD22	1.71	0.56
1:k:531:ASP:OD1	1:k:569:LYS:NZ	2.35	0.56
1:o:592:ALA:HA	1:p:499:ASN:HD22	1.71	0.56
1:x:451:THR:HG21	1:y:503:PHE:CE2	2.41	0.56
1:z:499:ASN:HD22	1:2:592:ALA:HA	1.71	0.56
1:R:400:TYR:OH	1:V:298:ASP:OD2	2.23	0.56
1:U:416:TYR:OH	1:U:644:HIS:O	2.21	0.56
1:l:512:HIS:ND1	1:l:517:ASP:OD1	2.35	0.56
1:B:592:ALA:HA	1:J:499:ASN:HD22	1.71	0.56
1:C:657:PRO:HD2	1:D:678:THR:HG21	1.86	0.56
1:F:512:HIS:ND1	1:F:517:ASP:OD1	2.35	0.56
1:K:678:THR:HG21	1:L:657:PRO:HD2	1.86	0.56
1:V:499:ASN:HA	1:X:589:GLN:HA	1.88	0.56
1:V:592:ALA:HA	1:e:499:ASN:HD22	1.71	0.56
1:W:592:ALA:HA	1:Y:499:ASN:HD22	1.71	0.56
1:c:400:TYR:OH	1:s:298:ASP:OD2	2.23	0.56
1:o:298:ASP:OD2	1:7:400:TYR:OH	2.23	0.56
1:v:400:TYR:OH	1:1:298:ASP:OD2	2.23	0.56
1:z:592:ALA:HA	1:1:499:ASN:HD22	1.71	0.56
1:H:298:ASP:OD2	1:I:400:TYR:OH	2.23	0.56
1:H:400:TYR:OH	1:Z:298:ASP:OD2	2.23	0.56
1:N:589:GLN:HA	1:P:499:ASN:HA	1.88	0.56
1:O:499:ASN:HD22	1:n:592:ALA:HA	1.71	0.56
1:T:298:ASP:OD2	1:U:400:TYR:OH	2.23	0.56
1:T:400:TYR:OH	1:i:298:ASP:OD2	2.23	0.56
1:o:678:THR:HG21	1:7:657:PRO:HD2	1.86	0.56
1:A:592:ALA:HA	1:G:499:ASN:HD22	1.71	0.56
1:F:499:ASN:HD22	1:Q:592:ALA:HA	1.71	0.56
1:N:592:ALA:HA	1:P:499:ASN:HD22	1.71	0.56
1:O:589:GLN:HA	1:m:499:ASN:HA	1.88	0.56
1:S:592:ALA:HA	1:U:499:ASN:HD22	1.71	0.56
1:T:589:GLN:HA	1:d:499:ASN:HA	1.88	0.56
1:f:400:TYR:OH	1:z:298:ASP:OD2	2.23	0.56
1:i:416:TYR:OH	1:i:644:HIS:O	2.20	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:i:499:ASN:HA	1:k:589:GLN:HA	1.88	0.56
1:k:258:TYR:OH	1:k:399:GLU:OE1	2.23	0.56
1:n:416:TYR:OH	1:n:644:HIS:O	2.21	0.56
1:q:592:ALA:HA	1:r:499:ASN:HD22	1.71	0.56
1:t:400:TYR:OH	1:y:298:ASP:OD2	2.23	0.56
1:t:592:ALA:HA	1:u:499:ASN:HD22	1.71	0.56
1:u:589:GLN:HA	1:v:499:ASN:HA	1.88	0.56
1:1:592:ALA:HA	1:2:499:ASN:HD22	1.71	0.56
1:5:499:ASN:HD22	1:7:592:ALA:HA	1.71	0.56
1:7:416:TYR:OH	1:7:644:HIS:O	2.21	0.56
1:F:400:TYR:OH	1:R:298:ASP:OD2	2.23	0.56
1:I:512:HIS:ND1	1:I:517:ASP:OD1	2.35	0.56
1:J:592:ALA:HA	1:L:499:ASN:HD22	1.71	0.56
1:M:499:ASN:HD22	1:b:592:ALA:HA	1.71	0.56
1:V:499:ASN:HD22	1:X:592:ALA:HA	1.71	0.56
1:V:589:GLN:HA	1:e:499:ASN:HA	1.88	0.56
1:c:499:ASN:HA	1:p:589:GLN:HA	1.88	0.56
1:f:592:ALA:HA	1:h:499:ASN:HD22	1.71	0.56
1:h:258:TYR:OH	1:h:399:GLU:OE1	2.24	0.56
1:v:298:ASP:OD2	1:w:400:TYR:OH	2.23	0.56
1:3:499:ASN:HA	1:4:589:GLN:HA	1.88	0.56
1:6:512:HIS:ND1	1:6:517:ASP:OD1	2.35	0.56
1:D:499:ASN:ND2	1:P:592:ALA:HA	2.21	0.55
1:H:589:GLN:HA	1:W:499:ASN:HA	1.88	0.55
1:S:589:GLN:HA	1:U:499:ASN:HA	1.88	0.55
1:a:589:GLN:HA	1:8:499:ASN:HA	1.88	0.55
1:b:512:HIS:ND1	1:b:517:ASP:OD1	2.35	0.55
1:d:589:GLN:HA	1:l:499:ASN:HA	1.88	0.55
1:d:592:ALA:HA	1:l:499:ASN:HD22	1.71	0.55
1:g:298:ASP:OD2	1:1:400:TYR:OH	2.23	0.55
1:g:416:TYR:OH	1:g:644:HIS:O	2.20	0.55
1:h:512:HIS:ND1	1:h:517:ASP:OD1	2.35	0.55
1:i:258:TYR:OH	1:i:399:GLU:OE1	2.24	0.55
1:j:592:ALA:HA	1:k:499:ASN:HD22	1.71	0.55
1:m:298:ASP:OD2	1:s:400:TYR:OH	2.23	0.55
1:q:499:ASN:HD22	1:s:592:ALA:HA	1.71	0.55
1:w:592:ALA:HA	1:x:499:ASN:ND2	2.20	0.55
1:B:512:HIS:ND1	1:B:517:ASP:OD1	2.35	0.55
1:C:400:TYR:OH	1:D:298:ASP:OD2	2.23	0.55
1:E:499:ASN:HA	1:F:589:GLN:HA	1.88	0.55
1:H:592:ALA:HA	1:W:499:ASN:HD22	1.71	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:O:400:TYR:OH	1:d:298:ASP:OD2	2.23	0.55
1:X:512:HIS:ND1	1:X:517:ASP:OD1	2.35	0.55
1:c:512:HIS:ND1	1:c:517:ASP:OD1	2.35	0.55
1:j:400:TYR:OH	1:l:298:ASP:OD2	2.23	0.55
1:p:400:TYR:OH	1:6:298:ASP:OD2	2.23	0.55
1:q:499:ASN:HA	1:s:589:GLN:HA	1.88	0.55
1:t:499:ASN:HD22	1:v:592:ALA:HA	1.71	0.55
1:4:416:TYR:OH	1:4:644:HIS:O	2.21	0.55
1:C:499:ASN:HD22	1:M:592:ALA:HA	1.71	0.55
1:D:592:ALA:HA	1:N:499:ASN:HD22	1.71	0.55
1:G:589:GLN:HA	1:I:499:ASN:HA	1.89	0.55
1:L:416:TYR:OH	1:L:644:HIS:O	2.21	0.55
1:R:499:ASN:HA	1:U:589:GLN:HA	1.88	0.55
1:T:499:ASN:HD22	1:l:592:ALA:HA	1.71	0.55
1:g:258:TYR:OH	1:g:399:GLU:OE1	2.23	0.55
1:g:499:ASN:HD22	1:h:592:ALA:HA	1.71	0.55
1:k:512:HIS:ND1	1:k:517:ASP:OD1	2.35	0.55
1:q:589:GLN:HA	1:r:499:ASN:HA	1.88	0.55
1:t:298:ASP:OD2	1:6:400:TYR:OH	2.23	0.55
1:t:499:ASN:ND2	1:v:592:ALA:HA	2.22	0.55
1:y:416:TYR:OH	1:y:644:HIS:O	2.20	0.55
1:z:499:ASN:HA	1:2:589:GLN:HA	1.89	0.55
1:B:499:ASN:HA	1:L:589:GLN:HA	1.88	0.55
1:C:416:TYR:OH	1:C:644:HIS:O	2.21	0.55
1:C:589:GLN:HA	1:b:499:ASN:HA	1.88	0.55
1:E:589:GLN:HA	1:Q:499:ASN:HA	1.88	0.55
1:K:592:ALA:HA	1:a:499:ASN:HD22	1.71	0.55
1:O:258:TYR:OH	1:O:399:GLU:OE1	2.23	0.55
1:W:589:GLN:HA	1:Y:499:ASN:HA	1.89	0.55
1:g:499:ASN:HA	1:h:589:GLN:HA	1.89	0.55
1:i:499:ASN:HD22	1:k:592:ALA:HA	1.71	0.55
1:3:258:TYR:OH	1:3:399:GLU:OE1	2.24	0.55
1:A:589:GLN:HA	1:G:499:ASN:HA	1.88	0.55
1:F:298:ASP:OD2	1:G:400:TYR:OH	2.23	0.55
1:K:298:ASP:OD2	1:L:400:TYR:OH	2.23	0.55
1:K:592:ALA:HA	1:a:499:ASN:ND2	2.22	0.55
1:Q:512:HIS:ND1	1:Q:517:ASP:OD1	2.35	0.55
1:R:592:ALA:HA	1:S:499:ASN:HD22	1.72	0.55
1:U:298:ASP:OD2	1:e:400:TYR:OH	2.23	0.55
1:V:416:TYR:OH	1:V:644:HIS:O	2.21	0.55
1:Z:499:ASN:HA	1:3:589:GLN:HA	1.89	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Z:589:GLN:HA	1:4:499:ASN:HA	1.88	0.55
1:1:592:ALA:HA	1:2:499:ASN:ND2	2.22	0.55
1:A:416:TYR:OH	1:A:644:HIS:O	2.20	0.55
1:B:499:ASN:HD22	1:L:592:ALA:HA	1.71	0.55
1:B:592:ALA:HA	1:J:499:ASN:ND2	2.22	0.55
1:E:592:ALA:HA	1:Q:499:ASN:HD22	1.71	0.55
1:K:499:ASN:ND2	1:8:592:ALA:HA	2.22	0.55
1:V:258:TYR:OH	1:V:399:GLU:OE1	2.24	0.55
1:c:592:ALA:HA	1:o:499:ASN:HD22	1.71	0.55
1:f:512:HIS:ND1	1:f:517:ASP:OD1	2.35	0.55
1:m:589:GLN:HA	1:n:499:ASN:HA	1.88	0.55
1:o:416:TYR:OH	1:o:644:HIS:O	2.20	0.55
1:p:298:ASP:OD2	1:q:400:TYR:OH	2.23	0.55
1:v:512:HIS:ND1	1:v:517:ASP:OD1	2.35	0.55
1:y:258:TYR:OH	1:y:399:GLU:OE1	2.23	0.55
1:2:298:ASP:OD2	1:3:400:TYR:OH	2.23	0.55
1:3:298:ASP:OD2	1:8:400:TYR:OH	2.23	0.55
1:6:589:GLN:HA	1:7:499:ASN:HA	1.88	0.55
1:C:592:ALA:HA	1:b:499:ASN:HD22	1.71	0.55
1:D:592:ALA:HA	1:N:499:ASN:ND2	2.22	0.55
1:T:592:ALA:HA	1:d:499:ASN:HD22	1.71	0.55
1:X:499:ASN:HD22	1:e:592:ALA:HA	1.71	0.55
1:Z:499:ASN:ND2	1:3:592:ALA:HA	2.22	0.55
1:Z:499:ASN:HD22	1:3:592:ALA:HA	1.71	0.55
1:n:400:TYR:OH	1:r:298:ASP:OD2	2.23	0.55
1:o:589:GLN:HA	1:p:499:ASN:HA	1.89	0.55
1:t:499:ASN:HA	1:v:589:GLN:HA	1.89	0.55
1:u:400:TYR:OH	1:5:298:ASP:OD2	2.23	0.55
1:w:499:ASN:HA	1:y:589:GLN:HA	1.89	0.55
1:x:512:HIS:ND1	1:x:517:ASP:OD1	2.35	0.55
1:4:258:TYR:OH	1:4:399:GLU:OE1	2.23	0.55
1:5:512:HIS:ND1	1:5:517:ASP:OD1	2.35	0.55
1:B:499:ASN:ND2	1:L:592:ALA:HA	2.22	0.55
1:C:592:ALA:HA	1:b:499:ASN:ND2	2.22	0.55
1:E:416:TYR:OH	1:E:644:HIS:O	2.21	0.55
1:H:499:ASN:HD22	1:Y:592:ALA:HA	1.71	0.55
1:L:298:ASP:OD2	1:b:400:TYR:OH	2.23	0.55
1:R:499:ASN:ND2	1:U:592:ALA:HA	2.22	0.55
1:V:499:ASN:ND2	1:X:592:ALA:HA	2.22	0.55
1:j:416:TYR:OH	1:j:644:HIS:O	2.20	0.55
1:q:499:ASN:ND2	1:s:592:ALA:HA	2.22	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:w:586:LEU:HD23	1:x:490:ARG:NH1	2.22	0.55
1:1:589:GLN:HA	1:2:499:ASN:HA	1.89	0.55
1:A:499:ASN:HD22	1:I:592:ALA:HA	1.71	0.55
1:H:592:ALA:HA	1:W:499:ASN:ND2	2.22	0.55
1:M:499:ASN:ND2	1:b:592:ALA:HA	2.22	0.55
1:O:298:ASP:OD2	1:P:400:TYR:OH	2.23	0.55
1:R:258:TYR:OH	1:R:399:GLU:OE1	2.24	0.55
1:R:499:ASN:HD22	1:U:592:ALA:HA	1.71	0.55
1:U:512:HIS:ND1	1:U:517:ASP:OD1	2.35	0.55
1:W:592:ALA:HA	1:Y:499:ASN:ND2	2.22	0.55
1:q:592:ALA:HA	1:r:499:ASN:ND2	2.22	0.55
1:w:499:ASN:ND2	1:y:592:ALA:HA	2.21	0.55
1:6:416:TYR:OH	1:6:644:HIS:O	2.20	0.55
1:B:400:TYR:OH	1:C:298:ASP:OD2	2.23	0.55
1:G:298:ASP:OD2	1:W:400:TYR:OH	2.23	0.55
1:J:592:ALA:HA	1:L:499:ASN:ND2	2.22	0.55
1:O:592:ALA:HA	1:m:499:ASN:ND2	2.22	0.55
1:T:592:ALA:HA	1:d:499:ASN:ND2	2.22	0.55
1:X:400:TYR:OH	1:f:298:ASP:OD2	2.23	0.55
1:a:592:ALA:HA	1:8:499:ASN:ND2	2.22	0.55
1:i:589:GLN:HA	1:j:499:ASN:HA	1.88	0.55
1:i:592:ALA:HA	1:j:499:ASN:HD22	1.71	0.55
1:j:298:ASP:OD2	1:x:400:TYR:OH	2.23	0.55
1:j:372:VAL:HG11	1:x:657:PRO:HG3	1.90	0.55
1:j:512:HIS:ND1	1:j:517:ASP:OD1	2.35	0.55
1:n:258:TYR:OH	1:n:399:GLU:OE1	2.24	0.55
1:r:592:ALA:HA	1:s:499:ASN:ND2	2.22	0.55
1:w:589:GLN:HA	1:x:499:ASN:HA	1.88	0.55
1:5:499:ASN:HA	1:7:589:GLN:HA	1.89	0.55
1:D:499:ASN:HA	1:P:589:GLN:HA	1.89	0.54
1:G:592:ALA:HA	1:I:499:ASN:ND2	2.22	0.54
1:K:499:ASN:HA	1:8:589:GLN:HA	1.89	0.54
1:N:258:TYR:OH	1:N:399:GLU:OE1	2.24	0.54
1:O:592:ALA:HA	1:m:499:ASN:HD22	1.71	0.54
1:Q:298:ASP:OD2	1:S:400:TYR:OH	2.23	0.54
1:b:298:ASP:OD2	1:o:400:TYR:OH	2.23	0.54
1:c:499:ASN:ND2	1:p:592:ALA:HA	2.22	0.54
1:f:416:TYR:OH	1:f:644:HIS:O	2.21	0.54
1:f:499:ASN:HD22	1:g:592:ALA:HA	1.71	0.54
1:r:592:ALA:HA	1:s:499:ASN:HD22	1.71	0.54
1:5:592:ALA:HA	1:6:499:ASN:ND2	2.22	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:6:592:ALA:HA	1:7:499:ASN:HD22	1.71	0.54
1:C:499:ASN:ND2	1:M:592:ALA:HA	2.22	0.54
1:D:586:LEU:HD23	1:N:490:ARG:NH1	2.22	0.54
1:H:499:ASN:ND2	1:Y:592:ALA:HA	2.22	0.54
1:V:592:ALA:HA	1:e:499:ASN:ND2	2.22	0.54
1:X:490:ARG:NH1	1:e:586:LEU:HD23	2.23	0.54
1:Z:592:ALA:HA	1:4:499:ASN:ND2	2.22	0.54
1:f:499:ASN:ND2	1:g:592:ALA:HA	2.22	0.54
1:r:589:GLN:HA	1:s:499:ASN:HA	1.88	0.54
1:u:592:ALA:HA	1:v:499:ASN:ND2	2.22	0.54
1:F:416:TYR:OH	1:F:644:HIS:O	2.21	0.54
1:H:499:ASN:HA	1:Y:589:GLN:HA	1.89	0.54
1:c:592:ALA:HA	1:o:499:ASN:ND2	2.22	0.54
1:n:657:PRO:HG3	1:r:372:VAL:HG11	1.90	0.54
1:z:589:GLN:HA	1:1:499:ASN:HA	1.88	0.54
1:A:499:ASN:HA	1:I:589:GLN:HA	1.89	0.54
1:A:499:ASN:ND2	1:I:592:ALA:HA	2.22	0.54
1:E:499:ASN:HD22	1:F:592:ALA:HA	1.71	0.54
1:R:589:GLN:HA	1:S:499:ASN:HA	1.88	0.54
1:Y:298:ASP:OD2	1:4:400:TYR:OH	2.23	0.54
1:Z:586:LEU:HD23	1:4:490:ARG:NH1	2.23	0.54
1:c:589:GLN:HA	1:o:499:ASN:HA	1.89	0.54
1:i:592:ALA:HA	1:j:499:ASN:ND2	2.22	0.54
1:z:490:ARG:NH1	1:2:586:LEU:HD23	2.23	0.54
1:5:586:LEU:HD23	1:6:490:ARG:NH1	2.23	0.54
1:B:586:LEU:HD23	1:J:490:ARG:NH1	2.23	0.54
1:D:490:ARG:NH1	1:P:586:LEU:HD23	2.22	0.54
1:F:499:ASN:HA	1:Q:589:GLN:HA	1.88	0.54
1:K:490:ARG:NH1	1:8:586:LEU:HD23	2.22	0.54
1:K:586:LEU:HD23	1:a:490:ARG:NH1	2.22	0.54
1:N:592:ALA:HA	1:P:499:ASN:ND2	2.22	0.54
1:S:592:ALA:HA	1:U:499:ASN:ND2	2.22	0.54
1:T:499:ASN:HA	1:l:589:GLN:HA	1.88	0.54
1:c:586:LEU:HD23	1:o:490:ARG:NH1	2.23	0.54
1:f:490:ARG:NH1	1:g:586:LEU:HD23	2.23	0.54
1:f:499:ASN:HA	1:g:589:GLN:HA	1.88	0.54
1:f:586:LEU:HD23	1:h:490:ARG:NH1	2.23	0.54
1:t:586:LEU:HD23	1:u:490:ARG:NH1	2.23	0.54
1:5:499:ASN:ND2	1:7:592:ALA:HA	2.22	0.54
1:6:592:ALA:HA	1:7:499:ASN:ND2	2.22	0.54
1:A:490:ARG:NH1	1:I:586:LEU:HD23	2.23	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:499:ASN:HA	1:M:589:GLN:HA	1.89	0.54
1:F:499:ASN:ND2	1:Q:592:ALA:HA	2.23	0.54
1:H:586:LEU:HD23	1:W:490:ARG:NH1	2.23	0.54
1:J:589:GLN:HA	1:L:499:ASN:HA	1.89	0.54
1:M:490:ARG:NH1	1:b:586:LEU:HD23	2.23	0.54
1:P:258:TYR:OH	1:P:399:GLU:OE1	2.23	0.54
1:S:258:TYR:OH	1:S:399:GLU:OE1	2.23	0.54
1:Y:372:VAL:HG11	1:4:657:PRO:HG3	1.90	0.54
1:o:592:ALA:HA	1:p:499:ASN:ND2	2.22	0.54
1:p:416:TYR:OH	1:p:644:HIS:O	2.20	0.54
1:q:416:TYR:OH	1:q:644:HIS:O	2.21	0.54
1:q:490:ARG:NH1	1:s:586:LEU:HD23	2.23	0.54
1:z:586:LEU:HD23	1:1:490:ARG:NH1	2.23	0.54
1:z:592:ALA:HA	1:1:499:ASN:ND2	2.22	0.54
1:3:499:ASN:ND2	1:4:592:ALA:HA	2.22	0.54
1:5:589:GLN:HA	1:6:499:ASN:HA	1.88	0.54
1:8:258:TYR:OH	1:8:399:GLU:OE1	2.24	0.54
1:B:589:GLN:HA	1:J:499:ASN:HA	1.88	0.54
1:H:657:PRO:HG3	1:Z:372:VAL:HG11	1.90	0.54
1:J:258:TYR:OH	1:J:399:GLU:OE1	2.23	0.54
1:S:416:TYR:OH	1:S:644:HIS:O	2.20	0.54
1:Z:400:TYR:OH	1:a:298:ASP:OD2	2.23	0.54
1:Z:490:ARG:NH1	1:3:586:LEU:HD23	2.23	0.54
1:c:499:ASN:HD22	1:p:592:ALA:HA	1.71	0.54
1:f:589:GLN:HA	1:h:499:ASN:HA	1.88	0.54
1:g:490:ARG:NH1	1:h:586:LEU:HD23	2.23	0.54
1:h:416:TYR:OH	1:h:644:HIS:O	2.21	0.54
1:i:586:LEU:HD23	1:j:490:ARG:NH1	2.23	0.54
1:j:586:LEU:HD23	1:k:490:ARG:NH1	2.23	0.54
1:m:592:ALA:HA	1:n:499:ASN:ND2	2.23	0.54
1:o:586:LEU:HD23	1:p:490:ARG:NH1	2.23	0.54
1:u:258:TYR:OH	1:u:399:GLU:OE1	2.23	0.54
1:H:490:ARG:NH1	1:Y:586:LEU:HD23	2.23	0.54
1:K:372:VAL:HG11	1:L:657:PRO:HG3	1.90	0.54
1:N:298:ASP:OD2	1:m:400:TYR:OH	2.23	0.54
1:W:416:TYR:OH	1:W:644:HIS:O	2.21	0.54
1:X:657:PRO:HG3	1:f:372:VAL:HG11	1.90	0.54
1:Z:657:PRO:HG3	1:a:372:VAL:HG11	1.90	0.54
1:i:490:ARG:NH1	1:k:586:LEU:HD23	2.23	0.54
1:j:592:ALA:HA	1:k:499:ASN:ND2	2.22	0.54
1:u:372:VAL:HG11	1:2:657:PRO:HG3	1.90	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:w:416:TYR:OH	1:w:644:HIS:O	2.20	0.54
1:w:490:ARG:NH1	1:y:586:LEU:HD23	2.22	0.54
1:A:512:HIS:ND1	1:A:517:ASP:OD1	2.35	0.54
1:A:592:ALA:HA	1:G:499:ASN:ND2	2.22	0.54
1:C:657:PRO:HG3	1:D:372:VAL:HG11	1.90	0.54
1:G:592:ALA:HA	1:I:499:ASN:HD22	1.71	0.54
1:M:258:TYR:OH	1:M:399:GLU:OE1	2.24	0.54
1:M:499:ASN:HA	1:b:589:GLN:HA	1.88	0.54
1:S:372:VAL:HG11	1:d:657:PRO:HG3	1.90	0.54
1:X:499:ASN:ND2	1:e:592:ALA:HA	2.22	0.54
1:e:416:TYR:OH	1:e:644:HIS:O	2.21	0.54
1:f:592:ALA:HA	1:h:499:ASN:ND2	2.22	0.54
1:m:372:VAL:HG11	1:s:657:PRO:HG3	1.90	0.54
1:m:586:LEU:HD23	1:n:490:ARG:NH1	2.23	0.54
1:r:586:LEU:HD23	1:s:490:ARG:NH1	2.23	0.54
1:t:589:GLN:HA	1:u:499:ASN:HA	1.89	0.54
1:t:592:ALA:HA	1:u:499:ASN:ND2	2.22	0.54
1:u:416:TYR:OH	1:u:644:HIS:O	2.21	0.54
1:1:586:LEU:HD23	1:2:490:ARG:NH1	2.23	0.54
1:B:490:ARG:NH1	1:L:586:LEU:HD23	2.23	0.54
1:C:586:LEU:HD23	1:b:490:ARG:NH1	2.23	0.54
1:D:400:TYR:OH	1:E:298:ASP:OD2	2.23	0.54
1:D:589:GLN:HA	1:N:499:ASN:HA	1.88	0.54
1:F:490:ARG:NH1	1:Q:586:LEU:HD23	2.23	0.54
1:K:400:TYR:OH	1:7:298:ASP:OD2	2.23	0.54
1:O:372:VAL:HG11	1:P:657:PRO:HG3	1.90	0.54
1:O:499:ASN:ND2	1:n:592:ALA:HA	2.22	0.54
1:V:490:ARG:NH1	1:X:586:LEU:HD23	2.23	0.54
1:V:586:LEU:HD23	1:e:490:ARG:NH1	2.23	0.54
1:X:499:ASN:HA	1:e:589:GLN:HA	1.89	0.54
1:o:512:HIS:ND1	1:o:517:ASP:OD1	2.35	0.54
1:t:490:ARG:NH1	1:v:586:LEU:HD23	2.23	0.54
1:u:657:PRO:HG3	1:5:372:VAL:HG11	1.90	0.54
1:z:499:ASN:ND2	1:2:592:ALA:HA	2.22	0.54
1:6:586:LEU:HD23	1:7:490:ARG:NH1	2.23	0.54
1:A:586:LEU:HD23	1:G:490:ARG:NH1	2.23	0.53
1:B:416:TYR:OH	1:B:644:HIS:O	2.20	0.53
1:E:499:ASN:ND2	1:F:592:ALA:HA	2.22	0.53
1:E:592:ALA:HA	1:Q:499:ASN:ND2	2.22	0.53
1:G:372:VAL:HG11	1:W:657:PRO:HG3	1.90	0.53
1:R:586:LEU:HD23	1:S:490:ARG:NH1	2.23	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:T:490:ARG:NH1	1:l:586:LEU:HD23	2.23	0.53
1:T:499:ASN:ND2	1:l:592:ALA:HA	2.22	0.53
1:V:512:HIS:ND1	1:V:517:ASP:OD1	2.35	0.53
1:b:416:TYR:OH	1:b:644:HIS:O	2.21	0.53
1:d:586:LEU:HD23	1:l:490:ARG:NH1	2.23	0.53
1:d:592:ALA:HA	1:l:499:ASN:ND2	2.22	0.53
1:p:372:VAL:HG11	1:q:657:PRO:HG3	1.90	0.53
1:3:372:VAL:HG11	1:8:657:PRO:HG3	1.91	0.53
1:J:586:LEU:HD23	1:L:490:ARG:NH1	2.23	0.53
1:W:586:LEU:HD23	1:Y:490:ARG:NH1	2.23	0.53
1:p:657:PRO:HG3	1:6:372:VAL:HG11	1.90	0.53
1:q:586:LEU:HD23	1:r:490:ARG:NH1	2.23	0.53
1:K:589:GLN:HA	1:a:499:ASN:HA	1.89	0.53
1:M:372:VAL:HG11	1:N:657:PRO:HG3	1.90	0.53
1:N:372:VAL:HG11	1:m:657:PRO:HG3	1.91	0.53
1:Q:372:VAL:HG11	1:S:657:PRO:HG3	1.90	0.53
1:R:592:ALA:HA	1:S:499:ASN:ND2	2.23	0.53
1:T:586:LEU:HD23	1:d:490:ARG:NH1	2.23	0.53
1:5:490:ARG:NH1	1:7:586:LEU:HD23	2.23	0.53
1:C:490:ARG:NH1	1:M:586:LEU:HD23	2.23	0.53
1:D:657:PRO:HG3	1:E:372:VAL:HG11	1.90	0.53
1:E:490:ARG:NH1	1:F:586:LEU:HD23	2.23	0.53
1:G:586:LEU:HD23	1:I:490:ARG:NH1	2.23	0.53
1:O:586:LEU:HD23	1:m:490:ARG:NH1	2.23	0.53
1:W:512:HIS:ND1	1:W:517:ASP:OD1	2.35	0.53
1:Z:592:ALA:HA	1:4:499:ASN:HD22	1.71	0.53
1:c:490:ARG:NH1	1:p:586:LEU:HD23	2.23	0.53
1:g:499:ASN:ND2	1:h:592:ALA:HA	2.22	0.53
1:j:589:GLN:HA	1:k:499:ASN:HA	1.89	0.53
1:k:657:PRO:HG3	1:w:372:VAL:HG11	1.90	0.53
1:F:372:VAL:HG11	1:G:657:PRO:HG3	1.90	0.53
1:H:372:VAL:HG11	1:I:657:PRO:HG3	1.90	0.53
1:T:372:VAL:HG11	1:U:657:PRO:HG3	1.90	0.53
1:q:512:HIS:ND1	1:q:517:ASP:OD1	2.35	0.53
1:v:657:PRO:HG3	1:1:372:VAL:HG11	1.90	0.53
1:y:512:HIS:ND1	1:y:517:ASP:OD1	2.35	0.53
1:D:512:HIS:ND1	1:D:517:ASP:OD1	2.35	0.53
1:J:298:ASP:OD2	1:a:400:TYR:OH	2.23	0.53
1:J:372:VAL:HG11	1:a:657:PRO:HG3	1.91	0.53
1:M:298:ASP:OD2	1:N:400:TYR:OH	2.23	0.53
1:R:490:ARG:NH1	1:U:586:LEU:HD23	2.23	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:R:657:PRO:HG3	1:V:372:VAL:HG11	1.90	0.53
1:T:657:PRO:HG3	1:i:372:VAL:HG11	1.90	0.53
1:c:657:PRO:HG3	1:s:372:VAL:HG11	1.90	0.53
1:e:372:VAL:HG11	1:h:657:PRO:HG3	1.90	0.53
1:i:499:ASN:ND2	1:k:592:ALA:HA	2.22	0.53
1:K:512:HIS:ND1	1:K:517:ASP:OD1	2.35	0.53
1:K:657:PRO:HG3	1:7:372:VAL:HG11	1.90	0.53
1:a:586:LEU:HD23	1:8:490:ARG:NH1	2.22	0.53
1:m:592:ALA:HA	1:n:499:ASN:HD22	1.72	0.53
1:r:657:PRO:HG3	1:x:372:VAL:HG11	1.90	0.53
1:u:586:LEU:HD23	1:v:490:ARG:NH1	2.23	0.53
1:v:372:VAL:HG11	1:w:657:PRO:HG3	1.90	0.53
1:3:490:ARG:NH1	1:4:586:LEU:HD23	2.23	0.53
1:E:586:LEU:HD23	1:Q:490:ARG:NH1	2.23	0.53
1:L:372:VAL:HG11	1:b:657:PRO:HG3	1.90	0.53
1:S:347:THR:HG22	1:S:649:ILE:HG13	1.91	0.53
1:f:657:PRO:HG3	1:z:372:VAL:HG11	1.90	0.53
1:g:372:VAL:HG11	1:1:657:PRO:HG3	1.90	0.53
1:t:657:PRO:HG3	1:y:372:VAL:HG11	1.91	0.53
1:A:657:PRO:HG3	1:B:372:VAL:HG11	1.90	0.53
1:J:347:THR:HG22	1:J:649:ILE:HG13	1.91	0.53
1:M:347:THR:HG22	1:M:649:ILE:HG13	1.91	0.53
1:R:347:THR:HG22	1:R:649:ILE:HG13	1.91	0.53
1:h:372:VAL:HG11	1:i:657:PRO:HG3	1.90	0.53
1:u:347:THR:HG22	1:u:649:ILE:HG13	1.91	0.53
1:w:347:THR:HG22	1:w:649:ILE:HG13	1.91	0.53
1:B:657:PRO:HG3	1:C:372:VAL:HG11	1.90	0.52
1:K:347:THR:HG22	1:K:649:ILE:HG13	1.91	0.52
1:b:372:VAL:HG11	1:o:657:PRO:HG3	1.90	0.52
1:e:347:THR:HG22	1:e:649:ILE:HG13	1.91	0.52
1:g:657:PRO:HG3	1:k:372:VAL:HG11	1.90	0.52
1:j:657:PRO:HG3	1:l:372:VAL:HG11	1.90	0.52
1:t:347:THR:HG22	1:t:649:ILE:HG13	1.91	0.52
1:1:347:THR:HG22	1:1:649:ILE:HG13	1.91	0.52
1:D:347:THR:HG22	1:D:649:ILE:HG13	1.91	0.52
1:T:347:THR:HG22	1:T:649:ILE:HG13	1.91	0.52
1:6:347:THR:HG22	1:6:649:ILE:HG13	1.91	0.52
1:A:372:VAL:HG11	1:E:657:PRO:HG3	1.90	0.52
1:F:347:THR:HG22	1:F:649:ILE:HG13	1.91	0.52
1:I:372:VAL:HG11	1:J:657:PRO:HG3	1.90	0.52
1:M:657:PRO:HG3	1:c:372:VAL:HG11	1.90	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:586:LEU:HD23	1:P:490:ARG:NH1	2.23	0.52
1:O:250:LEU:HB2	1:O:375:ILE:HD12	1.92	0.52
1:X:372:VAL:HG11	1:Y:657:PRO:HG3	1.91	0.52
1:f:347:THR:HG22	1:f:649:ILE:HG13	1.91	0.52
1:j:347:THR:HG22	1:j:649:ILE:HG13	1.91	0.52
1:H:250:LEU:HB2	1:H:375:ILE:HD12	1.92	0.52
1:P:372:VAL:HG11	1:Q:657:PRO:HG3	1.90	0.52
1:S:586:LEU:HD23	1:U:490:ARG:NH1	2.23	0.52
1:U:347:THR:HG22	1:U:649:ILE:HG13	1.91	0.52
1:o:372:VAL:HG11	1:7:657:PRO:HG3	1.90	0.52
1:s:250:LEU:HB2	1:s:375:ILE:HD12	1.92	0.52
1:x:583:ALA:O	1:y:487:ARG:HD2	2.10	0.52
1:3:250:LEU:HB2	1:3:375:ILE:HD12	1.92	0.52
1:5:657:PRO:HG3	1:8:372:VAL:HG11	1.90	0.52
1:G:347:THR:HG22	1:G:649:ILE:HG13	1.91	0.52
1:O:347:THR:HG22	1:O:649:ILE:HG13	1.91	0.52
1:Z:347:THR:HG22	1:Z:649:ILE:HG13	1.91	0.52
1:c:347:THR:HG22	1:c:649:ILE:HG13	1.91	0.52
1:g:347:THR:HG22	1:g:649:ILE:HG13	1.91	0.52
1:m:347:THR:HG22	1:m:649:ILE:HG13	1.91	0.52
1:s:347:THR:HG22	1:s:649:ILE:HG13	1.91	0.52
1:y:250:LEU:HB2	1:y:375:ILE:HD12	1.92	0.52
1:H:347:THR:HG22	1:H:649:ILE:HG13	1.91	0.52
1:I:347:THR:HG22	1:I:649:ILE:HG13	1.91	0.52
1:N:347:THR:HG22	1:N:649:ILE:HG13	1.91	0.52
1:O:490:ARG:NH1	1:n:586:LEU:HD23	2.23	0.52
1:O:657:PRO:HG3	1:d:372:VAL:HG11	1.90	0.52
1:Q:347:THR:HG22	1:Q:649:ILE:HG13	1.91	0.52
1:V:250:LEU:HB2	1:V:375:ILE:HD12	1.92	0.52
1:Y:258:TYR:OH	1:Y:399:GLU:OE1	2.23	0.52
1:a:347:THR:HG22	1:a:649:ILE:HG13	1.91	0.52
1:f:291:HIS:HD2	1:f:617:GLN:HA	1.75	0.52
1:i:347:THR:HG22	1:i:649:ILE:HG13	1.91	0.52
1:p:347:THR:HG22	1:p:649:ILE:HG13	1.91	0.52
1:q:372:VAL:HG11	1:y:657:PRO:HG3	1.90	0.52
1:t:258:TYR:OH	1:t:399:GLU:OE1	2.23	0.52
1:v:347:THR:HG22	1:v:649:ILE:HG13	1.91	0.52
1:3:347:THR:HG22	1:3:649:ILE:HG13	1.91	0.52
1:5:347:THR:HG22	1:5:649:ILE:HG13	1.91	0.52
1:A:347:THR:HG22	1:A:649:ILE:HG13	1.91	0.52
1:C:250:LEU:HB2	1:C:375:ILE:HD12	1.92	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:416:TYR:OH	1:G:644:HIS:O	2.21	0.52
1:I:250:LEU:HB2	1:I:375:ILE:HD12	1.92	0.52
1:J:291:HIS:HD2	1:J:617:GLN:HA	1.75	0.52
1:K:250:LEU:HB2	1:K:375:ILE:HD12	1.92	0.52
1:L:250:LEU:HB2	1:L:375:ILE:HD12	1.92	0.52
1:P:291:HIS:HD2	1:P:617:GLN:HA	1.75	0.52
1:T:250:LEU:HB2	1:T:375:ILE:HD12	1.92	0.52
1:Y:250:LEU:HB2	1:Y:375:ILE:HD12	1.92	0.52
1:Z:250:LEU:HB2	1:Z:375:ILE:HD12	1.92	0.52
1:Z:291:HIS:HD2	1:Z:617:GLN:HA	1.75	0.52
1:j:291:HIS:HD2	1:j:617:GLN:HA	1.75	0.52
1:k:347:THR:HG22	1:k:649:ILE:HG13	1.92	0.52
1:m:250:LEU:HB2	1:m:375:ILE:HD12	1.92	0.52
1:m:291:HIS:HD2	1:m:617:GLN:HA	1.75	0.52
1:r:250:LEU:HB2	1:r:375:ILE:HD12	1.92	0.52
1:y:347:THR:HG22	1:y:649:ILE:HG13	1.91	0.52
1:z:657:PRO:HG3	1:4:372:VAL:HG11	1.90	0.52
1:1:250:LEU:HB2	1:1:375:ILE:HD12	1.92	0.52
1:2:372:VAL:HG11	1:3:657:PRO:HG3	1.90	0.52
1:8:291:HIS:HD2	1:8:617:GLN:HA	1.75	0.52
1:D:250:LEU:HB2	1:D:375:ILE:HD12	1.92	0.52
1:M:291:HIS:HD2	1:M:617:GLN:HA	1.75	0.52
1:T:291:HIS:HD2	1:T:617:GLN:HA	1.75	0.52
1:V:347:THR:HG22	1:V:649:ILE:HG13	1.91	0.52
1:V:657:PRO:HG3	1:W:372:VAL:HG11	1.91	0.52
1:c:250:LEU:HB2	1:c:375:ILE:HD12	1.92	0.52
1:h:347:THR:HG22	1:h:649:ILE:HG13	1.92	0.52
1:k:291:HIS:HD2	1:k:617:GLN:HA	1.75	0.52
1:l:291:HIS:HD2	1:l:617:GLN:HA	1.75	0.52
1:l:657:PRO:HG3	1:n:372:VAL:HG11	1.90	0.52
1:o:347:THR:HG22	1:o:649:ILE:HG13	1.91	0.52
1:1:291:HIS:HD2	1:1:617:GLN:HA	1.75	0.52
1:6:258:TYR:OH	1:6:399:GLU:OE1	2.23	0.52
1:8:347:THR:HG22	1:8:649:ILE:HG13	1.91	0.52
1:A:254:ASN:O	1:A:255:ASN:C	2.53	0.52
1:E:347:THR:HG22	1:E:649:ILE:HG13	1.91	0.52
1:F:258:TYR:OH	1:F:399:GLU:OE1	2.23	0.52
1:P:250:LEU:HB2	1:P:375:ILE:HD12	1.92	0.52
1:P:347:THR:HG22	1:P:649:ILE:HG13	1.91	0.52
1:W:291:HIS:HD2	1:W:617:GLN:HA	1.75	0.52
1:b:291:HIS:HD2	1:b:617:GLN:HA	1.75	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:o:254:ASN:O	1:o:255:ASN:C	2.53	0.52
1:q:291:HIS:HD2	1:q:617:GLN:HA	1.75	0.52
1:v:291:HIS:HD2	1:v:617:GLN:HA	1.75	0.52
1:z:291:HIS:HD2	1:z:617:GLN:HA	1.75	0.52
1:5:250:LEU:HB2	1:5:375:ILE:HD12	1.92	0.52
1:B:291:HIS:HD2	1:B:617:GLN:HA	1.75	0.52
1:N:359:SER:HB2	1:N:361:HIS:CD2	2.46	0.52
1:Q:250:LEU:HB2	1:Q:375:ILE:HD12	1.92	0.52
1:U:291:HIS:HD2	1:U:617:GLN:HA	1.75	0.52
1:f:258:TYR:OH	1:f:399:GLU:OE1	2.24	0.52
1:h:291:HIS:HD2	1:h:617:GLN:HA	1.75	0.52
1:p:250:LEU:HB2	1:p:375:ILE:HD12	1.92	0.52
1:t:291:HIS:HD2	1:t:617:GLN:HA	1.75	0.52
1:x:416:TYR:OH	1:x:644:HIS:O	2.21	0.52
1:7:347:THR:HG22	1:7:649:ILE:HG13	1.91	0.52
1:8:250:LEU:HB2	1:8:375:ILE:HD12	1.92	0.52
1:A:250:LEU:HB2	1:A:375:ILE:HD12	1.92	0.51
1:B:254:ASN:O	1:B:255:ASN:C	2.53	0.51
1:C:291:HIS:HD2	1:C:617:GLN:HA	1.75	0.51
1:G:250:LEU:HB2	1:G:375:ILE:HD12	1.92	0.51
1:O:359:SER:HB2	1:O:361:HIS:CD2	2.46	0.51
1:U:372:VAL:HG11	1:e:657:PRO:HG3	1.91	0.51
1:W:359:SER:HB2	1:W:361:HIS:CD2	2.46	0.51
1:Y:359:SER:HB2	1:Y:361:HIS:CD2	2.45	0.51
1:a:250:LEU:HB2	1:a:375:ILE:HD12	1.92	0.51
1:a:359:SER:HB2	1:a:361:HIS:CD2	2.46	0.51
1:b:254:ASN:O	1:b:255:ASN:C	2.53	0.51
1:j:258:TYR:OH	1:j:399:GLU:OE1	2.24	0.51
1:o:250:LEU:HB2	1:o:375:ILE:HD12	1.92	0.51
1:q:359:SER:HB2	1:q:361:HIS:CD2	2.46	0.51
1:r:258:TYR:OH	1:r:399:GLU:OE1	2.24	0.51
1:u:291:HIS:HD2	1:u:617:GLN:HA	1.75	0.51
1:y:359:SER:HB2	1:y:361:HIS:CD2	2.46	0.51
1:3:359:SER:HB2	1:3:361:HIS:CD2	2.46	0.51
1:4:347:THR:HG22	1:4:649:ILE:HG13	1.91	0.51
1:6:254:ASN:O	1:6:255:ASN:C	2.53	0.51
1:D:254:ASN:O	1:D:255:ASN:C	2.53	0.51
1:F:657:PRO:HG3	1:R:372:VAL:HG11	1.90	0.51
1:G:359:SER:HB2	1:G:361:HIS:CD2	2.46	0.51
1:I:359:SER:HB2	1:I:361:HIS:CD2	2.46	0.51
1:K:254:ASN:O	1:K:255:ASN:C	2.53	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:323:VAL:CG1	1:M:675:GLN:HE21	2.24	0.51
1:N:250:LEU:HB2	1:N:375:ILE:HD12	1.92	0.51
1:R:291:HIS:HD2	1:R:617:GLN:HA	1.75	0.51
1:S:291:HIS:HD2	1:S:617:GLN:HA	1.75	0.51
1:V:359:SER:HB2	1:V:361:HIS:CD2	2.46	0.51
1:W:254:ASN:O	1:W:255:ASN:C	2.53	0.51
1:b:250:LEU:HB2	1:b:375:ILE:HD12	1.92	0.51
1:i:323:VAL:CG1	1:i:675:GLN:HE21	2.24	0.51
1:l:347:THR:HG22	1:l:649:ILE:HG13	1.91	0.51
1:n:347:THR:HG22	1:n:649:ILE:HG13	1.91	0.51
1:q:250:LEU:HB2	1:q:375:ILE:HD12	1.92	0.51
1:w:291:HIS:HD2	1:w:617:GLN:HA	1.75	0.51
1:y:323:VAL:CG1	1:y:675:GLN:HE21	2.24	0.51
1:1:359:SER:HB2	1:1:361:HIS:CD2	2.46	0.51
1:4:291:HIS:HD2	1:4:617:GLN:HA	1.75	0.51
1:C:347:THR:HG22	1:C:649:ILE:HG13	1.91	0.51
1:F:254:ASN:O	1:F:255:ASN:C	2.53	0.51
1:H:291:HIS:HD2	1:H:617:GLN:HA	1.75	0.51
1:J:323:VAL:CG1	1:J:675:GLN:HE21	2.24	0.51
1:L:291:HIS:HD2	1:L:617:GLN:HA	1.75	0.51
1:P:230[B]:HIS:NE2	1:P:243:THR:HG21	2.26	0.51
1:P:416:TYR:OH	1:P:644:HIS:O	2.21	0.51
1:T:359:SER:HB2	1:T:361:HIS:CD2	2.46	0.51
1:V:323:VAL:CG1	1:V:675:GLN:HE21	2.24	0.51
1:W:250:LEU:HB2	1:W:375:ILE:HD12	1.92	0.51
1:X:359:SER:HB2	1:X:361:HIS:CD2	2.46	0.51
1:Y:347:THR:HG22	1:Y:649:ILE:HG13	1.91	0.51
1:c:359:SER:HB2	1:c:361:HIS:CD2	2.46	0.51
1:e:291:HIS:HD2	1:e:617:GLN:HA	1.75	0.51
1:g:323:VAL:CG1	1:g:675:GLN:HE21	2.24	0.51
1:h:359:SER:HB2	1:h:361:HIS:CD2	2.46	0.51
1:k:359:SER:HB2	1:k:361:HIS:CD2	2.46	0.51
1:n:291:HIS:HD2	1:n:617:GLN:HA	1.75	0.51
1:r:347:THR:HG22	1:r:649:ILE:HG13	1.91	0.51
1:r:359:SER:HB2	1:r:361:HIS:CD2	2.46	0.51
1:x:359:SER:HB2	1:x:361:HIS:CD2	2.46	0.51
1:z:347:THR:HG22	1:z:649:ILE:HG13	1.91	0.51
1:B:250:LEU:HB2	1:B:375:ILE:HD12	1.92	0.51
1:E:323:VAL:CG1	1:E:675:GLN:HE21	2.24	0.51
1:G:230[B]:HIS:NE2	1:G:243:THR:HG21	2.26	0.51
1:J:250:LEU:HB2	1:J:375:ILE:HD12	1.92	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:347:THR:HG22	1:L:649:ILE:HG13	1.91	0.51
1:N:323:VAL:CG1	1:N:675:GLN:HE21	2.24	0.51
1:O:230[B]:HIS:NE2	1:O:243:THR:HG21	2.26	0.51
1:P:359:SER:HB2	1:P:361:HIS:CD2	2.46	0.51
1:Q:291:HIS:HD2	1:Q:617:GLN:HA	1.75	0.51
1:U:323:VAL:CG1	1:U:675:GLN:HE21	2.24	0.51
1:V:291:HIS:HD2	1:V:617:GLN:HA	1.75	0.51
1:a:323:VAL:CG1	1:a:675:GLN:HE21	2.24	0.51
1:g:230[B]:HIS:NE2	1:g:243:THR:HG21	2.26	0.51
1:i:230[B]:HIS:NE2	1:i:243:THR:HG21	2.26	0.51
1:m:416:TYR:OH	1:m:644:HIS:O	2.21	0.51
1:p:359:SER:HB2	1:p:361:HIS:CD2	2.46	0.51
1:q:254:ASN:O	1:q:255:ASN:C	2.53	0.51
1:t:372:VAL:HG11	1:6:657:PRO:HG3	1.90	0.51
1:w:250:LEU:HB2	1:w:375:ILE:HD12	1.92	0.51
1:w:323:VAL:CG1	1:w:675:GLN:HE21	2.24	0.51
1:3:230[B]:HIS:NE2	1:3:243:THR:HG21	2.26	0.51
1:8:230[B]:HIS:NE2	1:8:243:THR:HG21	2.26	0.51
1:8:416:TYR:OH	1:8:644:HIS:O	2.21	0.51
1:A:359:SER:HB2	1:A:361:HIS:CD2	2.46	0.51
1:B:347:THR:HG22	1:B:649:ILE:HG13	1.91	0.51
1:M:250:LEU:HB2	1:M:375:ILE:HD12	1.92	0.51
1:Z:416:TYR:OH	1:Z:644:HIS:O	2.21	0.51
1:b:347:THR:HG22	1:b:649:ILE:HG13	1.91	0.51
1:c:291:HIS:HD2	1:c:617:GLN:HA	1.75	0.51
1:d:347:THR:HG22	1:d:649:ILE:HG13	1.91	0.51
1:e:250:LEU:HB2	1:e:375:ILE:HD12	1.92	0.51
1:e:323:VAL:CG1	1:e:675:GLN:HE21	2.24	0.51
1:p:230[B]:HIS:NE2	1:p:243:THR:HG21	2.26	0.51
1:r:323:VAL:CG1	1:r:675:GLN:HE21	2.24	0.51
1:s:291:HIS:HD2	1:s:617:GLN:HA	1.75	0.51
1:v:230[B]:HIS:NE2	1:v:243:THR:HG21	2.26	0.51
1:v:250:LEU:HB2	1:v:375:ILE:HD12	1.92	0.51
1:v:323:VAL:CG1	1:v:675:GLN:HE21	2.24	0.51
1:y:230[B]:HIS:NE2	1:y:243:THR:HG21	2.26	0.51
1:2:347:THR:HG22	1:2:649:ILE:HG13	1.91	0.51
1:4:230[B]:HIS:NE2	1:4:243:THR:HG21	2.26	0.51
1:4:250:LEU:HB2	1:4:375:ILE:HD12	1.92	0.51
1:5:291:HIS:HD2	1:5:617:GLN:HA	1.75	0.51
1:7:323:VAL:CG1	1:7:675:GLN:HE21	2.24	0.51
1:8:359:SER:HB2	1:8:361:HIS:CD2	2.46	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:230[B]:HIS:NE2	1:B:243:THR:HG21	2.26	0.51
1:B:359:SER:HB2	1:B:361:HIS:CD2	2.46	0.51
1:C:230[B]:HIS:NE2	1:C:243:THR:HG21	2.26	0.51
1:I:291:HIS:HD2	1:I:617:GLN:HA	1.75	0.51
1:L:230[B]:HIS:NE2	1:L:243:THR:HG21	2.26	0.51
1:R:250:LEU:HB2	1:R:375:ILE:HD12	1.92	0.51
1:S:250:LEU:HB2	1:S:375:ILE:HD12	1.92	0.51
1:V:230[B]:HIS:NE2	1:V:243:THR:HG21	2.26	0.51
1:Y:323:VAL:CG1	1:Y:675:GLN:HE21	2.24	0.51
1:d:230[B]:HIS:NE2	1:d:243:THR:HG21	2.26	0.51
1:h:250:LEU:HB2	1:h:375:ILE:HD12	1.92	0.51
1:h:254:ASN:O	1:h:255:ASN:C	2.53	0.51
1:i:250:LEU:HB2	1:i:375:ILE:HD12	1.92	0.51
1:k:250:LEU:HB2	1:k:375:ILE:HD12	1.92	0.51
1:l:250:LEU:HB2	1:l:375:ILE:HD12	1.92	0.51
1:l:359:SER:HB2	1:l:361:HIS:CD2	2.46	0.51
1:n:250:LEU:HB2	1:n:375:ILE:HD12	1.92	0.51
1:o:359:SER:HB2	1:o:361:HIS:CD2	2.46	0.51
1:q:323:VAL:CG1	1:q:675:GLN:HE21	2.24	0.51
1:r:291:HIS:HD2	1:r:617:GLN:HA	1.75	0.51
1:t:250:LEU:HB2	1:t:375:ILE:HD12	1.92	0.51
1:y:291:HIS:HD2	1:y:617:GLN:HA	1.75	0.51
1:z:359:SER:HB2	1:z:361:HIS:CD2	2.46	0.51
1:2:230[B]:HIS:NE2	1:2:243:THR:HG21	2.26	0.51
1:3:254:ASN:O	1:3:255:ASN:C	2.53	0.51
1:C:323:VAL:CG1	1:C:675:GLN:HE21	2.24	0.51
1:G:323:VAL:CG1	1:G:675:GLN:HE21	2.24	0.51
1:R:230[B]:HIS:NE2	1:R:243:THR:HG21	2.26	0.51
1:U:250:LEU:HB2	1:U:375:ILE:HD12	1.92	0.51
1:a:230[B]:HIS:NE2	1:a:243:THR:HG21	2.26	0.51
1:b:230[B]:HIS:NE2	1:b:243:THR:HG21	2.26	0.51
1:e:254:ASN:O	1:e:255:ASN:C	2.53	0.51
1:g:250:LEU:HB2	1:g:375:ILE:HD12	1.92	0.51
1:k:230[B]:HIS:NE2	1:k:243:THR:HG21	2.26	0.51
1:k:254:ASN:O	1:k:255:ASN:C	2.53	0.51
1:n:230[B]:HIS:NE2	1:n:243:THR:HG21	2.26	0.51
1:n:323:VAL:CG1	1:n:675:GLN:HE21	2.24	0.51
1:o:291:HIS:HD2	1:o:617:GLN:HA	1.75	0.51
1:w:254:ASN:O	1:w:255:ASN:C	2.53	0.51
1:z:250:LEU:HB2	1:z:375:ILE:HD12	1.92	0.51
1:K:291:HIS:HD2	1:K:617:GLN:HA	1.75	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:323:VAL:CG1	1:L:675:GLN:HE21	2.24	0.51
1:M:416:TYR:OH	1:M:644:HIS:O	2.21	0.51
1:O:254:ASN:O	1:O:255:ASN:C	2.53	0.51
1:V:254:ASN:O	1:V:255:ASN:C	2.53	0.51
1:W:230[B]:HIS:NE2	1:W:243:THR:HG21	2.26	0.51
1:W:323:VAL:CG1	1:W:675:GLN:HE21	2.24	0.51
1:W:347:THR:HG22	1:W:649:ILE:HG13	1.91	0.51
1:Y:291:HIS:HD2	1:Y:617:GLN:HA	1.75	0.51
1:Z:230[B]:HIS:NE2	1:Z:243:THR:HG21	2.26	0.51
1:b:359:SER:HB2	1:b:361:HIS:CD2	2.46	0.51
1:h:230[B]:HIS:NE2	1:h:243:THR:HG21	2.26	0.51
1:j:250:LEU:HB2	1:j:375:ILE:HD12	1.92	0.51
1:m:230[B]:HIS:NE2	1:m:243:THR:HG21	2.26	0.51
1:p:323:VAL:CG1	1:p:675:GLN:HE21	2.24	0.51
1:t:230[B]:HIS:NE2	1:t:243:THR:HG21	2.26	0.51
1:u:250:LEU:HB2	1:u:375:ILE:HD12	1.92	0.51
1:4:254:ASN:O	1:4:255:ASN:C	2.53	0.51
1:4:323:VAL:CG1	1:4:675:GLN:HE21	2.24	0.51
1:A:291:HIS:HD2	1:A:617:GLN:HA	1.75	0.51
1:A:323:VAL:CG1	1:A:675:GLN:HE21	2.24	0.51
1:J:359:SER:HB2	1:J:361:HIS:CD2	2.46	0.51
1:M:359:SER:HB2	1:M:361:HIS:CD2	2.46	0.51
1:N:230[B]:HIS:NE2	1:N:243:THR:HG21	2.26	0.51
1:S:359:SER:HB2	1:S:361:HIS:CD2	2.46	0.51
1:Z:254:ASN:O	1:Z:255:ASN:C	2.53	0.51
1:d:359:SER:HB2	1:d:361:HIS:CD2	2.46	0.51
1:f:250:LEU:HB2	1:f:375:ILE:HD12	1.92	0.51
1:n:359:SER:HB2	1:n:361:HIS:CD2	2.46	0.51
1:o:323:VAL:CG1	1:o:675:GLN:HE21	2.24	0.51
1:q:230[B]:HIS:NE2	1:q:243:THR:HG21	2.26	0.51
1:q:347:THR:HG22	1:q:649:ILE:HG13	1.91	0.51
1:s:254:ASN:O	1:s:255:ASN:C	2.53	0.51
1:t:359:SER:HB2	1:t:361:HIS:CD2	2.46	0.51
1:u:359:SER:HB2	1:u:361:HIS:CD2	2.46	0.51
1:z:323:VAL:CG1	1:z:675:GLN:HE21	2.24	0.51
1:5:323:VAL:CG1	1:5:675:GLN:HE21	2.24	0.51
1:H:230[B]:HIS:NE2	1:H:243:THR:HG21	2.26	0.51
1:L:258:TYR:OH	1:L:399:GLU:OE1	2.24	0.51
1:O:291:HIS:HD2	1:O:617:GLN:HA	1.75	0.51
1:Q:323:VAL:CG1	1:Q:675:GLN:HE21	2.24	0.51
1:U:230[B]:HIS:NE2	1:U:243:THR:HG21	2.26	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:U:359:SER:HB2	1:U:361:HIS:CD2	2.46	0.51
1:f:359:SER:HB2	1:f:361:HIS:CD2	2.46	0.51
1:j:359:SER:HB2	1:j:361:HIS:CD2	2.46	0.51
1:l:323:VAL:CG1	1:l:675:GLN:HE21	2.24	0.51
1:m:254:ASN:O	1:m:255:ASN:C	2.53	0.51
1:m:359:SER:HB2	1:m:361:HIS:CD2	2.46	0.51
1:n:254:ASN:O	1:n:255:ASN:C	2.53	0.51
1:s:230[B]:HIS:NE2	1:s:243:THR:HG21	2.26	0.51
1:v:359:SER:HB2	1:v:361:HIS:CD2	2.46	0.51
1:y:254:ASN:O	1:y:255:ASN:C	2.54	0.51
1:2:359:SER:HB2	1:2:361:HIS:CD2	2.46	0.51
1:3:291:HIS:HD2	1:3:617:GLN:HA	1.75	0.51
1:5:254:ASN:O	1:5:255:ASN:C	2.53	0.51
1:5:258:TYR:OH	1:5:399:GLU:OE1	2.24	0.51
1:7:291:HIS:HD2	1:7:617:GLN:HA	1.75	0.51
1:D:291:HIS:HD2	1:D:617:GLN:HA	1.75	0.50
1:F:291:HIS:HD2	1:F:617:GLN:HA	1.75	0.50
1:F:323:VAL:CG1	1:F:675:GLN:HE21	2.24	0.50
1:H:359:SER:HB2	1:H:361:HIS:CD2	2.46	0.50
1:J:416:TYR:OH	1:J:644:HIS:O	2.21	0.50
1:Q:254:ASN:O	1:Q:255:ASN:C	2.53	0.50
1:Q:416:TYR:OH	1:Q:644:HIS:O	2.21	0.50
1:R:359:SER:HB2	1:R:361:HIS:CD2	2.46	0.50
1:T:230[B]:HIS:NE2	1:T:243:THR:HG21	2.26	0.50
1:T:254:ASN:O	1:T:255:ASN:C	2.53	0.50
1:X:291:HIS:HD2	1:X:617:GLN:HA	1.75	0.50
1:X:323:VAL:CG1	1:X:675:GLN:HE21	2.24	0.50
1:Z:323:VAL:CG1	1:Z:675:GLN:HE21	2.24	0.50
1:Z:359:SER:HB2	1:Z:361:HIS:CD2	2.46	0.50
1:b:323:VAL:CG1	1:b:675:GLN:HE21	2.24	0.50
1:d:291:HIS:HD2	1:d:617:GLN:HA	1.75	0.50
1:p:254:ASN:O	1:p:255:ASN:C	2.53	0.50
1:p:291:HIS:HD2	1:p:617:GLN:HA	1.75	0.50
1:x:291:HIS:HD2	1:x:617:GLN:HA	1.75	0.50
1:1:254:ASN:O	1:1:255:ASN:C	2.53	0.50
1:4:359:SER:HB2	1:4:361:HIS:CD2	2.46	0.50
1:E:291:HIS:HD2	1:E:617:GLN:HA	1.75	0.50
1:F:359:SER:HB2	1:F:361:HIS:CD2	2.45	0.50
1:O:323:VAL:CG1	1:O:675:GLN:HE21	2.24	0.50
1:T:323:VAL:CG1	1:T:675:GLN:HE21	2.24	0.50
1:d:323:VAL:CG1	1:d:675:GLN:HE21	2.24	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:e:359:SER:HB2	1:e:361:HIS:CD2	2.46	0.50
1:f:230[B]:HIS:NE2	1:f:243:THR:HG21	2.26	0.50
1:f:323:VAL:CG1	1:f:675:GLN:HE21	2.24	0.50
1:i:359:SER:HB2	1:i:361:HIS:CD2	2.45	0.50
1:j:230[B]:HIS:NE2	1:j:243:THR:HG21	2.26	0.50
1:j:323:VAL:CG1	1:j:675:GLN:HE21	2.24	0.50
1:l:230[B]:HIS:NE2	1:l:243:THR:HG21	2.26	0.50
1:s:359:SER:HB2	1:s:361:HIS:CD2	2.46	0.50
1:v:416:TYR:OH	1:v:644:HIS:O	2.21	0.50
1:w:487:ARG:HD2	1:y:583:ALA:O	2.12	0.50
1:x:230[B]:HIS:NE2	1:x:243:THR:HG21	2.26	0.50
1:x:323:VAL:CG1	1:x:675:GLN:HE21	2.24	0.50
1:1:230[B]:HIS:NE2	1:1:243:THR:HG21	2.26	0.50
1:2:250:LEU:HB2	1:2:375:ILE:HD12	1.92	0.50
1:2:291:HIS:HD2	1:2:617:GLN:HA	1.75	0.50
1:2:323:VAL:CG1	1:2:675:GLN:HE21	2.24	0.50
1:5:416:TYR:OH	1:5:644:HIS:O	2.21	0.50
1:6:323:VAL:CG1	1:6:675:GLN:HE21	2.24	0.50
1:B:323:VAL:CG1	1:B:675:GLN:HE21	2.24	0.50
1:D:323:VAL:CG1	1:D:675:GLN:HE21	2.24	0.50
1:G:254:ASN:O	1:G:255:ASN:C	2.53	0.50
1:G:291:HIS:HD2	1:G:617:GLN:HA	1.75	0.50
1:K:359:SER:HB2	1:K:361:HIS:CD2	2.46	0.50
1:K:487:ARG:HD2	1:8:583:ALA:O	2.11	0.50
1:N:291:HIS:HD2	1:N:617:GLN:HA	1.75	0.50
1:P:323:VAL:CG1	1:P:675:GLN:HE21	2.24	0.50
1:V:487:ARG:HD2	1:X:583:ALA:O	2.12	0.50
1:X:230[B]:HIS:NE2	1:X:243:THR:HG21	2.26	0.50
1:Y:254:ASN:O	1:Y:255:ASN:C	2.53	0.50
1:b:258:TYR:OH	1:b:399:GLU:OE1	2.23	0.50
1:m:323:VAL:CG1	1:m:675:GLN:HE21	2.24	0.50
1:r:254:ASN:O	1:r:255:ASN:C	2.53	0.50
1:w:230[B]:HIS:NE2	1:w:243:THR:HG21	2.26	0.50
1:z:230[B]:HIS:NE2	1:z:243:THR:HG21	2.26	0.50
1:5:359:SER:HB2	1:5:361:HIS:CD2	2.45	0.50
1:6:291:HIS:HD2	1:6:617:GLN:HA	1.75	0.50
1:6:359:SER:HB2	1:6:361:HIS:CD2	2.46	0.50
1:7:230[B]:HIS:NE2	1:7:243:THR:HG21	2.26	0.50
1:D:359:SER:HB2	1:D:361:HIS:CD2	2.46	0.50
1:K:323:VAL:CG1	1:K:675:GLN:HE21	2.24	0.50
1:Q:359:SER:HB2	1:Q:361:HIS:CD2	2.46	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Z:258:TYR:OH	1:Z:399:GLU:OE1	2.24	0.50
1:a:291:HIS:HD2	1:a:617:GLN:HA	1.75	0.50
1:d:250:LEU:HB2	1:d:375:ILE:HD12	1.92	0.50
1:g:359:SER:HB2	1:g:361:HIS:CD2	2.46	0.50
1:h:323:VAL:CG1	1:h:675:GLN:HE21	2.24	0.50
1:k:323:VAL:CG1	1:k:675:GLN:HE21	2.24	0.50
1:r:416:TYR:OH	1:r:644:HIS:O	2.21	0.50
1:w:359:SER:HB2	1:w:361:HIS:CD2	2.46	0.50
1:z:258:TYR:OH	1:z:399:GLU:OE1	2.24	0.50
1:1:323:VAL:CG1	1:1:675:GLN:HE21	2.24	0.50
1:3:323:VAL:CG1	1:3:675:GLN:HE21	2.24	0.50
1:8:323:VAL:CG1	1:8:675:GLN:HE21	2.24	0.50
1:I:323:VAL:CG1	1:I:675:GLN:HE21	2.24	0.50
1:X:347:THR:HG22	1:X:649:ILE:HG13	1.91	0.50
1:Z:583:ALA:O	1:4:487:ARG:HD2	2.12	0.50
1:a:583:ALA:O	1:8:487:ARG:HD2	2.12	0.50
1:c:323:VAL:CG1	1:c:675:GLN:HE21	2.24	0.50
1:e:230[B]:HIS:NE2	1:e:243:THR:HG21	2.26	0.50
1:t:487:ARG:HD2	1:v:583:ALA:O	2.12	0.50
1:u:230[B]:HIS:NE2	1:u:243:THR:HG21	2.26	0.50
1:A:230[B]:HIS:NE2	1:A:243:THR:HG21	2.26	0.50
1:B:258:TYR:OH	1:B:399:GLU:OE1	2.23	0.50
1:C:359:SER:HB2	1:C:361:HIS:CD2	2.46	0.50
1:E:230[B]:HIS:NE2	1:E:243:THR:HG21	2.26	0.50
1:I:258:TYR:OH	1:I:399:GLU:OE1	2.23	0.50
1:K:230[B]:HIS:NE2	1:K:243:THR:HG21	2.26	0.50
1:R:323:VAL:CG1	1:R:675:GLN:HE21	2.24	0.50
1:S:230[B]:HIS:NE2	1:S:243:THR:HG21	2.26	0.50
1:X:250:LEU:HB2	1:X:375:ILE:HD12	1.92	0.50
1:X:254:ASN:O	1:X:255:ASN:C	2.53	0.50
1:g:291:HIS:HD2	1:g:617:GLN:HA	1.75	0.50
1:i:291:HIS:HD2	1:i:617:GLN:HA	1.75	0.50
1:i:487:ARG:HD2	1:k:583:ALA:O	2.12	0.50
1:t:323:VAL:CG1	1:t:675:GLN:HE21	2.24	0.50
1:u:439:PRO:HB3	1:v:381:LEU:HD21	1.94	0.50
1:D:230[B]:HIS:NE2	1:D:243:THR:HG21	2.26	0.50
1:E:250:LEU:HB2	1:E:375:ILE:HD12	1.92	0.50
1:H:323:VAL:CG1	1:H:675:GLN:HE21	2.24	0.50
1:K:416:TYR:OH	1:K:644:HIS:O	2.20	0.50
1:S:323:VAL:CG1	1:S:675:GLN:HE21	2.24	0.50
1:V:583:ALA:O	1:e:487:ARG:HD2	2.12	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:W:258:TYR:OH	1:W:399:GLU:OE1	2.24	0.50
1:f:583:ALA:O	1:h:487:ARG:HD2	2.12	0.50
1:g:487:ARG:HD2	1:h:583:ALA:O	2.12	0.50
1:o:230[B]:HIS:NE2	1:o:243:THR:HG21	2.26	0.50
1:r:230[B]:HIS:NE2	1:r:243:THR:HG21	2.26	0.50
1:s:323:VAL:CG1	1:s:675:GLN:HE21	2.24	0.50
1:v:254:ASN:O	1:v:255:ASN:C	2.53	0.50
1:x:347:THR:HG22	1:x:649:ILE:HG13	1.91	0.50
1:5:583:ALA:O	1:6:487:ARG:HD2	2.12	0.50
1:7:250:LEU:HB2	1:7:375:ILE:HD12	1.92	0.50
1:A:487:ARG:HD2	1:I:583:ALA:O	2.12	0.50
1:D:487:ARG:HD2	1:P:583:ALA:O	2.12	0.50
1:F:230[B]:HIS:NE2	1:F:243:THR:HG21	2.26	0.50
1:H:583:ALA:O	1:W:487:ARG:HD2	2.12	0.50
1:L:359:SER:HB2	1:L:361:HIS:CD2	2.46	0.50
1:N:254:ASN:O	1:N:255:ASN:C	2.53	0.50
1:Q:230[B]:HIS:NE2	1:Q:243:THR:HG21	2.26	0.50
1:R:487:ARG:HD2	1:U:583:ALA:O	2.12	0.50
1:Y:416:TYR:OH	1:Y:644:HIS:O	2.21	0.50
1:Z:487:ARG:HD2	1:3:583:ALA:O	2.12	0.50
1:c:583:ALA:O	1:o:487:ARG:HD2	2.12	0.50
1:j:583:ALA:O	1:k:487:ARG:HD2	2.12	0.50
1:l:258:TYR:OH	1:l:399:GLU:OE1	2.23	0.50
1:m:258:TYR:OH	1:m:399:GLU:OE1	2.24	0.50
1:t:583:ALA:O	1:u:487:ARG:HD2	2.12	0.50
1:x:250:LEU:HB2	1:x:375:ILE:HD12	1.92	0.50
1:7:359:SER:HB2	1:7:361:HIS:CD2	2.46	0.50
1:A:381:LEU:HD21	1:I:439:PRO:HB3	1.94	0.50
1:C:583:ALA:O	1:b:487:ARG:HD2	2.12	0.50
1:E:359:SER:HB2	1:E:361:HIS:CD2	2.46	0.50
1:I:230[B]:HIS:NE2	1:I:243:THR:HG21	2.26	0.50
1:S:439:PRO:HB3	1:U:381:LEU:HD21	1.94	0.50
1:U:254:ASN:O	1:U:255:ASN:C	2.53	0.50
1:Y:230[B]:HIS:NE2	1:Y:243:THR:HG21	2.26	0.50
1:a:254:ASN:O	1:a:255:ASN:C	2.53	0.50
1:c:381:LEU:HD21	1:p:439:PRO:HB3	1.94	0.50
1:i:381:LEU:HD21	1:k:439:PRO:HB3	1.94	0.50
1:q:487:ARG:HD2	1:s:583:ALA:O	2.12	0.50
1:u:323:VAL:CG1	1:u:675:GLN:HE21	2.24	0.50
1:u:583:ALA:O	1:v:487:ARG:HD2	2.12	0.50
1:x:254:ASN:O	1:x:255:ASN:C	2.53	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:z:583:ALA:O	1:1:487:ARG:HD2	2.12	0.50
1:5:230[B]:HIS:NE2	1:5:243:THR:HG21	2.26	0.50
1:6:230[B]:HIS:NE2	1:6:243:THR:HG21	2.26	0.50
1:B:487:ARG:HD2	1:L:583:ALA:O	2.12	0.49
1:B:583:ALA:O	1:J:487:ARG:HD2	2.12	0.49
1:C:258:TYR:OH	1:C:399:GLU:OE1	2.24	0.49
1:F:250:LEU:HB2	1:F:375:ILE:HD12	1.92	0.49
1:G:439:PRO:HB3	1:I:381:LEU:HD21	1.94	0.49
1:M:487:ARG:HD2	1:b:583:ALA:O	2.12	0.49
1:c:230[B]:HIS:NE2	1:c:243:THR:HG21	2.26	0.49
1:c:258:TYR:OH	1:c:399:GLU:OE1	2.24	0.49
1:f:254:ASN:O	1:f:255:ASN:C	2.53	0.49
1:o:583:ALA:O	1:p:487:ARG:HD2	2.12	0.49
1:q:258:TYR:OH	1:q:399:GLU:OE1	2.23	0.49
1:z:439:PRO:HB3	1:1:381:LEU:HD21	1.94	0.49
1:z:487:ARG:HD2	1:2:583:ALA:O	2.12	0.49
1:5:381:LEU:HD21	1:7:439:PRO:HB3	1.95	0.49
1:5:487:ARG:HD2	1:7:583:ALA:O	2.12	0.49
1:7:254:ASN:O	1:7:255:ASN:C	2.53	0.49
1:E:254:ASN:O	1:E:255:ASN:C	2.53	0.49
1:E:439:PRO:HB3	1:Q:381:LEU:HD21	1.95	0.49
1:M:381:LEU:HD21	1:b:439:PRO:HB3	1.94	0.49
1:N:583:ALA:O	1:P:487:ARG:HD2	2.12	0.49
1:T:381:LEU:HD21	1:l:439:PRO:HB3	1.94	0.49
1:V:439:PRO:HB3	1:e:381:LEU:HD21	1.94	0.49
1:m:583:ALA:O	1:n:487:ARG:HD2	2.12	0.49
1:t:381:LEU:HD21	1:v:439:PRO:HB3	1.95	0.49
1:1:583:ALA:O	1:2:487:ARG:HD2	2.12	0.49
1:6:250:LEU:HB2	1:6:375:ILE:HD12	1.92	0.49
1:N:439:PRO:HB3	1:P:381:LEU:HD21	1.95	0.49
1:O:439:PRO:HB3	1:m:381:LEU:HD21	1.95	0.49
1:R:381:LEU:HD21	1:U:439:PRO:HB3	1.95	0.49
1:a:439:PRO:HB3	1:8:381:LEU:HD21	1.95	0.49
1:g:254:ASN:O	1:g:255:ASN:C	2.53	0.49
1:j:254:ASN:O	1:j:255:ASN:C	2.53	0.49
1:3:487:ARG:HD2	1:4:583:ALA:O	2.12	0.49
1:B:439:PRO:HB3	1:J:381:LEU:HD21	1.94	0.49
1:H:254:ASN:O	1:H:255:ASN:C	2.53	0.49
1:M:254:ASN:O	1:M:255:ASN:C	2.53	0.49
1:N:416:TYR:OH	1:N:644:HIS:O	2.21	0.49
1:T:439:PRO:HB3	1:d:381:LEU:HD21	1.94	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:T:583:ALA:O	1:d:487:ARG:HD2	2.12	0.49
1:Z:381:LEU:HD21	1:3:439:PRO:HB3	1.95	0.49
1:c:439:PRO:HB3	1:o:381:LEU:HD21	1.94	0.49
1:c:487:ARG:HD2	1:p:583:ALA:O	2.12	0.49
1:i:254:ASN:O	1:i:255:ASN:C	2.53	0.49
1:A:583:ALA:O	1:G:487:ARG:HD2	2.12	0.49
1:E:258:TYR:OH	1:E:399:GLU:OE1	2.23	0.49
1:H:439:PRO:HB3	1:W:381:LEU:HD21	1.94	0.49
1:H:487:ARG:HD2	1:Y:583:ALA:O	2.12	0.49
1:O:583:ALA:O	1:m:487:ARG:HD2	2.12	0.49
1:R:583:ALA:O	1:S:487:ARG:HD2	2.12	0.49
1:T:487:ARG:HD2	1:l:583:ALA:O	2.12	0.49
1:g:381:LEU:HD21	1:h:439:PRO:HB3	1.95	0.49
1:F:487:ARG:HD2	1:Q:583:ALA:O	2.12	0.49
1:J:230[B]:HIS:NE2	1:J:243:THR:HG21	2.26	0.49
1:J:439:PRO:HB3	1:L:381:LEU:HD21	1.95	0.49
1:S:583:ALA:O	1:U:487:ARG:HD2	2.13	0.49
1:X:487:ARG:HD2	1:e:583:ALA:O	2.12	0.49
1:p:258:TYR:OH	1:p:399:GLU:OE1	2.23	0.49
1:s:416:TYR:OH	1:s:644:HIS:O	2.21	0.49
1:t:416:TYR:OH	1:t:644:HIS:O	2.21	0.49
1:C:381:LEU:HD21	1:M:439:PRO:HB3	1.95	0.49
1:E:381:LEU:HD21	1:F:439:PRO:HB3	1.94	0.49
1:E:583:ALA:O	1:Q:487:ARG:HD2	2.12	0.49
1:J:254:ASN:O	1:J:255:ASN:C	2.53	0.49
1:O:487:ARG:HD2	1:n:583:ALA:O	2.13	0.49
1:q:381:LEU:HD21	1:s:439:PRO:HB3	1.94	0.49
1:w:381:LEU:HD21	1:y:439:PRO:HB3	1.95	0.49
1:6:439:PRO:HB3	1:7:381:LEU:HD21	1.94	0.49
1:C:439:PRO:HB3	1:b:381:LEU:HD21	1.94	0.49
1:G:258:TYR:OH	1:G:399:GLU:OE1	2.23	0.49
1:G:583:ALA:O	1:I:487:ARG:HD2	2.12	0.49
1:K:381:LEU:HD21	1:8:439:PRO:HB3	1.95	0.49
1:R:416:TYR:OH	1:R:644:HIS:O	2.21	0.49
1:X:303:ILE:HG22	1:X:731:THR:HG23	1.95	0.49
1:Y:303:ILE:HG22	1:Y:731:THR:HG23	1.95	0.49
1:a:416:TYR:OH	1:a:644:HIS:O	2.21	0.49
1:q:439:PRO:HB3	1:r:381:LEU:HD21	1.94	0.49
1:r:303:ILE:HG22	1:r:731:THR:HG23	1.95	0.49
1:v:303:ILE:HG22	1:v:731:THR:HG23	1.95	0.49
1:w:303:ILE:HG22	1:w:731:THR:HG23	1.95	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:x:303:ILE:HG22	1:x:731:THR:HG23	1.95	0.49
1:1:439:PRO:HB3	1:2:381:LEU:HD21	1.94	0.49
1:B:381:LEU:HD21	1:L:439:PRO:HB3	1.94	0.49
1:D:583:ALA:O	1:N:487:ARG:HD2	2.11	0.49
1:H:416:TYR:OH	1:H:644:HIS:O	2.20	0.49
1:M:230[B]:HIS:NE2	1:M:243:THR:HG21	2.26	0.49
1:M:511:TYR:HD2	1:M:520:VAL:HG22	1.78	0.49
1:U:303:ILE:HG22	1:U:731:THR:HG23	1.95	0.49
1:d:254:ASN:O	1:d:255:ASN:C	2.53	0.49
1:d:583:ALA:O	1:l:487:ARG:HD2	2.12	0.49
1:e:303:ILE:HG22	1:e:731:THR:HG23	1.95	0.49
1:r:583:ALA:O	1:s:487:ARG:HD2	2.12	0.49
1:H:303:ILE:HG22	1:H:731:THR:HG23	1.95	0.49
1:J:511:TYR:HD2	1:J:520:VAL:HG22	1.78	0.49
1:N:303:ILE:HG22	1:N:731:THR:HG23	1.95	0.49
1:W:439:PRO:HB3	1:Y:381:LEU:HD21	1.95	0.49
1:c:254:ASN:O	1:c:255:ASN:C	2.53	0.49
1:g:303:ILE:HG22	1:g:731:THR:HG23	1.95	0.49
1:i:303:ILE:HG22	1:i:731:THR:HG23	1.95	0.49
1:r:511:TYR:HD2	1:r:520:VAL:HG22	1.78	0.49
1:2:254:ASN:O	1:2:255:ASN:C	2.53	0.49
1:6:583:ALA:O	1:7:487:ARG:HD2	2.12	0.49
1:7:258:TYR:OH	1:7:399:GLU:OE1	2.24	0.49
1:I:254:ASN:O	1:I:255:ASN:C	2.53	0.48
1:J:583:ALA:O	1:L:487:ARG:HD2	2.12	0.48
1:P:511:TYR:HD2	1:P:520:VAL:HG22	1.78	0.48
1:R:511:TYR:HD2	1:R:520:VAL:HG22	1.78	0.48
1:S:329:ASN:O	1:S:332:THR:HG22	2.13	0.48
1:Y:511:TYR:HD2	1:Y:520:VAL:HG22	1.78	0.48
1:h:303:ILE:HG22	1:h:731:THR:HG23	1.95	0.48
1:n:303:ILE:HG22	1:n:731:THR:HG23	1.95	0.48
1:q:583:ALA:O	1:r:487:ARG:HD2	2.12	0.48
1:s:303:ILE:HG22	1:s:731:THR:HG23	1.95	0.48
1:u:329:ASN:O	1:u:332:THR:HG22	2.13	0.48
1:v:329:ASN:O	1:v:332:THR:HG22	2.13	0.48
1:8:511:TYR:HD2	1:8:520:VAL:HG22	1.78	0.48
1:C:511:TYR:HD2	1:C:520:VAL:HG22	1.78	0.48
1:I:329:ASN:O	1:I:332:THR:HG22	2.13	0.48
1:K:583:ALA:O	1:a:487:ARG:HD2	2.12	0.48
1:L:511:TYR:HD2	1:L:520:VAL:HG22	1.78	0.48
1:Q:511:TYR:HD2	1:Q:520:VAL:HG22	1.78	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:U:329:ASN:O	1:U:332:THR:HG22	2.13	0.48
1:a:303:ILE:HG22	1:a:731:THR:HG23	1.95	0.48
1:c:511:TYR:HD2	1:c:520:VAL:HG22	1.78	0.48
1:g:511:TYR:HD2	1:g:520:VAL:HG22	1.78	0.48
1:h:511:TYR:HD2	1:h:520:VAL:HG22	1.78	0.48
1:i:511:TYR:HD2	1:i:520:VAL:HG22	1.78	0.48
1:j:329:ASN:O	1:j:332:THR:HG22	2.13	0.48
1:k:303:ILE:HG22	1:k:731:THR:HG23	1.95	0.48
1:k:511:TYR:HD2	1:k:520:VAL:HG22	1.78	0.48
1:m:329:ASN:O	1:m:332:THR:HG22	2.13	0.48
1:t:511:TYR:HD2	1:t:520:VAL:HG22	1.78	0.48
1:4:329:ASN:O	1:4:332:THR:HG22	2.13	0.48
1:8:303:ILE:HG22	1:8:731:THR:HG23	1.95	0.48
1:A:439:PRO:HB3	1:G:381:LEU:HD21	1.94	0.48
1:C:487:ARG:HD2	1:M:583:ALA:O	2.12	0.48
1:D:381:LEU:HD21	1:P:439:PRO:HB3	1.95	0.48
1:F:329:ASN:O	1:F:332:THR:HG22	2.13	0.48
1:J:329:ASN:O	1:J:332:THR:HG22	2.13	0.48
1:J:692:GLU:HG3	1:J:734:LEU:HD13	1.96	0.48
1:N:329:ASN:O	1:N:332:THR:HG22	2.13	0.48
1:P:303:ILE:HG22	1:P:731:THR:HG23	1.95	0.48
1:Q:329:ASN:O	1:Q:332:THR:HG22	2.13	0.48
1:W:583:ALA:O	1:Y:487:ARG:HD2	2.12	0.48
1:a:329:ASN:O	1:a:332:THR:HG22	2.13	0.48
1:c:329:ASN:O	1:c:332:THR:HG22	2.13	0.48
1:e:511:TYR:HD2	1:e:520:VAL:HG22	1.78	0.48
1:f:329:ASN:O	1:f:332:THR:HG22	2.13	0.48
1:i:439:PRO:HB3	1:j:381:LEU:HD21	1.94	0.48
1:n:329:ASN:O	1:n:332:THR:HG22	2.13	0.48
1:q:487:ARG:HG2	1:q:488:GLN:N	2.29	0.48
1:w:583:ALA:O	1:x:487:ARG:HD2	2.12	0.48
1:z:254:ASN:O	1:z:255:ASN:C	2.53	0.48
1:4:303:ILE:HG22	1:4:731:THR:HG23	1.95	0.48
1:5:439:PRO:HB3	1:6:381:LEU:HD21	1.94	0.48
1:A:511:TYR:HD2	1:A:520:VAL:HG22	1.78	0.48
1:F:381:LEU:HD21	1:Q:439:PRO:HB3	1.94	0.48
1:I:692:GLU:HG3	1:I:734:LEU:HD13	1.96	0.48
1:M:329:ASN:O	1:M:332:THR:HG22	2.13	0.48
1:M:692:GLU:HG3	1:M:734:LEU:HD13	1.96	0.48
1:O:381:LEU:HD21	1:n:439:PRO:HB3	1.94	0.48
1:P:329:ASN:O	1:P:332:THR:HG22	2.13	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:R:439:PRO:HB3	1:S:381:LEU:HD21	1.94	0.48
1:S:303:ILE:HG22	1:S:731:THR:HG23	1.95	0.48
1:T:511:TYR:HD2	1:T:520:VAL:HG22	1.78	0.48
1:U:692:GLU:HG3	1:U:734:LEU:HD13	1.96	0.48
1:V:511:TYR:HD2	1:V:520:VAL:HG22	1.78	0.48
1:W:487:ARG:HG2	1:W:488:GLN:N	2.29	0.48
1:Z:329:ASN:O	1:Z:332:THR:HG22	2.14	0.48
1:Z:487:ARG:HG2	1:Z:488:GLN:N	2.29	0.48
1:a:511:TYR:HD2	1:a:520:VAL:HG22	1.78	0.48
1:k:416:TYR:OH	1:k:644:HIS:O	2.21	0.48
1:l:329:ASN:O	1:l:332:THR:HG22	2.13	0.48
1:m:487:ARG:HG2	1:m:488:GLN:N	2.29	0.48
1:o:511:TYR:HD2	1:o:520:VAL:HG22	1.78	0.48
1:v:692:GLU:HG3	1:v:734:LEU:HD13	1.96	0.48
1:w:439:PRO:HB3	1:x:381:LEU:HD21	1.95	0.48
1:z:329:ASN:O	1:z:332:THR:HG22	2.13	0.48
1:2:258:TYR:OH	1:2:399:GLU:OE1	2.24	0.48
1:2:329:ASN:O	1:2:332:THR:HG22	2.13	0.48
1:5:329:ASN:O	1:5:332:THR:HG22	2.13	0.48
1:8:692:GLU:HG3	1:8:734:LEU:HD13	1.96	0.48
1:C:303:ILE:HG22	1:C:731:THR:HG23	1.95	0.48
1:H:329:ASN:O	1:H:332:THR:HG22	2.13	0.48
1:I:487:ARG:HG2	1:I:488:GLN:N	2.29	0.48
1:I:511:TYR:HD2	1:I:520:VAL:HG22	1.78	0.48
1:N:511:TYR:HD2	1:N:520:VAL:HG22	1.78	0.48
1:O:511:TYR:HD2	1:O:520:VAL:HG22	1.78	0.48
1:P:692:GLU:HG3	1:P:734:LEU:HD13	1.96	0.48
1:Q:303:ILE:HG22	1:Q:731:THR:HG23	1.95	0.48
1:R:692:GLU:HG3	1:R:734:LEU:HD13	1.96	0.48
1:T:329:ASN:O	1:T:332:THR:HG22	2.13	0.48
1:W:329:ASN:O	1:W:332:THR:HG22	2.13	0.48
1:X:692:GLU:HG3	1:X:734:LEU:HD13	1.96	0.48
1:b:511:TYR:HD2	1:b:520:VAL:HG22	1.78	0.48
1:c:692:GLU:HG3	1:c:734:LEU:HD13	1.96	0.48
1:d:258:TYR:OH	1:d:399:GLU:OE1	2.23	0.48
1:d:329:ASN:O	1:d:332:THR:HG22	2.13	0.48
1:e:329:ASN:O	1:e:332:THR:HG22	2.13	0.48
1:f:286:ASP:O	1:f:364:CYS:HA	2.14	0.48
1:f:381:LEU:HD21	1:g:439:PRO:HB3	1.94	0.48
1:g:329:ASN:O	1:g:332:THR:HG22	2.13	0.48
1:h:329:ASN:O	1:h:332:THR:HG22	2.13	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:j:286:ASP:O	1:j:364:CYS:HA	2.14	0.48
1:j:303:ILE:HG22	1:j:731:THR:HG23	1.95	0.48
1:l:254:ASN:O	1:l:255:ASN:C	2.53	0.48
1:m:260:GLN:NE2	1:m:276:PHE:HE1	2.12	0.48
1:o:439:PRO:HB3	1:p:381:LEU:HD21	1.94	0.48
1:q:329:ASN:O	1:q:332:THR:HG22	2.13	0.48
1:s:692:GLU:HG3	1:s:734:LEU:HD13	1.96	0.48
1:u:303:ILE:HG22	1:u:731:THR:HG23	1.95	0.48
1:w:329:ASN:O	1:w:332:THR:HG22	2.13	0.48
1:w:511:TYR:HD2	1:w:520:VAL:HG22	1.78	0.48
1:x:487:ARG:HG2	1:x:488:GLN:N	2.29	0.48
1:y:511:TYR:HD2	1:y:520:VAL:HG22	1.78	0.48
1:1:329:ASN:O	1:1:332:THR:HG22	2.13	0.48
1:1:511:TYR:HD2	1:1:520:VAL:HG22	1.78	0.48
1:4:286:ASP:O	1:4:364:CYS:HA	2.14	0.48
1:5:511:TYR:HD2	1:5:520:VAL:HG22	1.78	0.48
1:6:329:ASN:O	1:6:332:THR:HG22	2.13	0.48
1:7:329:ASN:O	1:7:332:THR:HG22	2.13	0.48
1:8:329:ASN:O	1:8:332:THR:HG22	2.13	0.48
1:B:303:ILE:HG22	1:B:731:THR:HG23	1.95	0.48
1:B:487:ARG:HG2	1:B:488:GLN:N	2.29	0.48
1:B:511:TYR:HD2	1:B:520:VAL:HG22	1.78	0.48
1:E:329:ASN:O	1:E:332:THR:HG22	2.13	0.48
1:E:487:ARG:HD2	1:F:583:ALA:O	2.12	0.48
1:G:260:GLN:NE2	1:G:276:PHE:HE1	2.12	0.48
1:G:692:GLU:HG3	1:G:734:LEU:HD13	1.96	0.48
1:H:511:TYR:HD2	1:H:520:VAL:HG22	1.78	0.48
1:I:303:ILE:HG22	1:I:731:THR:HG23	1.95	0.48
1:J:260:GLN:NE2	1:J:276:PHE:HE1	2.12	0.48
1:L:286:ASP:O	1:L:364:CYS:HA	2.14	0.48
1:L:303:ILE:HG22	1:L:731:THR:HG23	1.95	0.48
1:L:487:ARG:HG2	1:L:488:GLN:N	2.29	0.48
1:M:260:GLN:NE2	1:M:276:PHE:HE1	2.12	0.48
1:U:511:TYR:HD2	1:U:520:VAL:HG22	1.78	0.48
1:V:286:ASP:O	1:V:364:CYS:HA	2.14	0.48
1:W:286:ASP:O	1:W:364:CYS:HA	2.14	0.48
1:X:487:ARG:HG2	1:X:488:GLN:N	2.29	0.48
1:c:303:ILE:HG22	1:c:731:THR:HG23	1.95	0.48
1:c:487:ARG:HG2	1:c:488:GLN:N	2.29	0.48
1:d:286:ASP:O	1:d:364:CYS:HA	2.14	0.48
1:f:303:ILE:HG22	1:f:731:THR:HG23	1.95	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:f:439:PRO:HB3	1:h:381:LEU:HD21	1.94	0.48
1:i:329:ASN:O	1:i:332:THR:HG22	2.13	0.48
1:p:692:GLU:HG3	1:p:734:LEU:HD13	1.96	0.48
1:s:329:ASN:O	1:s:332:THR:HG22	2.13	0.48
1:s:511:TYR:HD2	1:s:520:VAL:HG22	1.78	0.48
1:t:329:ASN:O	1:t:332:THR:HG22	2.13	0.48
1:t:692:GLU:HG3	1:t:734:LEU:HD13	1.96	0.48
1:x:286:ASP:O	1:x:364:CYS:HA	2.14	0.48
1:x:329:ASN:O	1:x:332:THR:HG22	2.13	0.48
1:y:286:ASP:O	1:y:364:CYS:HA	2.14	0.48
1:z:303:ILE:HG22	1:z:731:THR:HG23	1.95	0.48
1:z:381:LEU:HD21	1:2:439:PRO:HB3	1.94	0.48
1:1:416:TYR:OH	1:1:644:HIS:O	2.21	0.48
1:3:303:ILE:HG22	1:3:731:THR:HG23	1.95	0.48
1:3:511:TYR:HD2	1:3:520:VAL:HG22	1.78	0.48
1:5:303:ILE:HG22	1:5:731:THR:HG23	1.95	0.48
1:7:511:TYR:HD2	1:7:520:VAL:HG22	1.78	0.48
1:A:260:GLN:NE2	1:A:276:PHE:HE1	2.12	0.48
1:C:286:ASP:O	1:C:364:CYS:HA	2.14	0.48
1:C:487:ARG:HG2	1:C:488:GLN:N	2.29	0.48
1:D:416:TYR:OH	1:D:644:HIS:O	2.20	0.48
1:E:511:TYR:HD2	1:E:520:VAL:HG22	1.78	0.48
1:N:692:GLU:HG3	1:N:734:LEU:HD13	1.96	0.48
1:R:260:GLN:NE2	1:R:276:PHE:HE1	2.12	0.48
1:T:416:TYR:OH	1:T:644:HIS:O	2.21	0.48
1:T:487:ARG:HG2	1:T:488:GLN:N	2.29	0.48
1:V:381:LEU:HD21	1:X:439:PRO:HB3	1.94	0.48
1:V:487:ARG:HG2	1:V:488:GLN:N	2.29	0.48
1:X:286:ASP:O	1:X:364:CYS:HA	2.14	0.48
1:X:329:ASN:O	1:X:332:THR:HG22	2.13	0.48
1:X:381:LEU:HD21	1:e:439:PRO:HB3	1.95	0.48
1:Y:260:GLN:NE2	1:Y:276:PHE:HE1	2.12	0.48
1:Z:260:GLN:NE2	1:Z:276:PHE:HE1	2.12	0.48
1:Z:692:GLU:HG3	1:Z:734:LEU:HD13	1.96	0.48
1:b:303:ILE:HG22	1:b:731:THR:HG23	1.95	0.48
1:k:329:ASN:O	1:k:332:THR:HG22	2.13	0.48
1:l:303:ILE:HG22	1:l:731:THR:HG23	1.95	0.48
1:m:286:ASP:O	1:m:364:CYS:HA	2.14	0.48
1:m:692:GLU:HG3	1:m:734:LEU:HD13	1.96	0.48
1:n:286:ASP:O	1:n:364:CYS:HA	2.14	0.48
1:p:260:GLN:NE2	1:p:276:PHE:HE1	2.12	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:q:286:ASP:O	1:q:364:CYS:HA	2.14	0.48
1:r:260:GLN:NE2	1:r:276:PHE:HE1	2.12	0.48
1:t:260:GLN:NE2	1:t:276:PHE:HE1	2.12	0.48
1:v:511:TYR:HD2	1:v:520:VAL:HG22	1.78	0.48
1:x:692:GLU:HG3	1:x:734:LEU:HD13	1.96	0.48
1:z:286:ASP:O	1:z:364:CYS:HA	2.14	0.48
1:1:487:ARG:HG2	1:1:488:GLN:N	2.29	0.48
1:2:260:GLN:NE2	1:2:276:PHE:HE1	2.12	0.48
1:3:381:LEU:HD21	1:4:439:PRO:HB3	1.94	0.48
1:7:692:GLU:HG3	1:7:734:LEU:HD13	1.96	0.48
1:B:692:GLU:HG3	1:B:734:LEU:HD13	1.96	0.48
1:D:303:ILE:HG22	1:D:731:THR:HG23	1.95	0.48
1:G:511:TYR:HD2	1:G:520:VAL:HG22	1.78	0.48
1:H:286:ASP:O	1:H:364:CYS:HA	2.14	0.48
1:H:692:GLU:HG3	1:H:734:LEU:HD13	1.96	0.48
1:J:303:ILE:HG22	1:J:731:THR:HG23	1.95	0.48
1:K:303:ILE:HG22	1:K:731:THR:HG23	1.95	0.48
1:L:692:GLU:HG3	1:L:734:LEU:HD13	1.96	0.48
1:M:303:ILE:HG22	1:M:731:THR:HG23	1.95	0.48
1:S:260:GLN:NE2	1:S:276:PHE:HE1	2.12	0.48
1:T:692:GLU:HG3	1:T:734:LEU:HD13	1.96	0.48
1:U:260:GLN:NE2	1:U:276:PHE:HE1	2.12	0.48
1:X:511:TYR:HD2	1:X:520:VAL:HG22	1.78	0.48
1:a:692:GLU:HG3	1:a:734:LEU:HD13	1.96	0.48
1:b:487:ARG:HG2	1:b:488:GLN:N	2.29	0.48
1:d:260:GLN:NE2	1:d:276:PHE:HE1	2.12	0.48
1:g:692:GLU:HG3	1:g:734:LEU:HD13	1.96	0.48
1:j:439:PRO:HB3	1:k:381:LEU:HD21	1.95	0.48
1:l:286:ASP:O	1:l:364:CYS:HA	2.14	0.48
1:o:260:GLN:NE2	1:o:276:PHE:HE1	2.12	0.48
1:t:303:ILE:HG22	1:t:731:THR:HG23	1.95	0.48
1:t:439:PRO:HB3	1:u:381:LEU:HD21	1.95	0.48
1:u:260:GLN:NE2	1:u:276:PHE:HE1	2.12	0.48
1:y:487:ARG:HG2	1:y:488:GLN:N	2.29	0.48
1:1:692:GLU:HG3	1:1:734:LEU:HD13	1.96	0.48
1:2:286:ASP:O	1:2:364:CYS:HA	2.14	0.48
1:A:692:GLU:HG3	1:A:734:LEU:HD13	1.96	0.48
1:D:511:TYR:HD2	1:D:520:VAL:HG22	1.78	0.48
1:E:692:GLU:HG3	1:E:734:LEU:HD13	1.96	0.48
1:H:381:LEU:HD21	1:Y:439:PRO:HB3	1.94	0.48
1:J:286:ASP:O	1:J:364:CYS:HA	2.14	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:286:ASP:O	1:M:364:CYS:HA	2.14	0.48
1:O:303:ILE:HG22	1:O:731:THR:HG23	1.95	0.48
1:R:303:ILE:HG22	1:R:731:THR:HG23	1.95	0.48
1:R:329:ASN:O	1:R:332:THR:HG22	2.13	0.48
1:S:254:ASN:O	1:S:255:ASN:C	2.53	0.48
1:S:286:ASP:O	1:S:364:CYS:HA	2.14	0.48
1:V:260:GLN:NE2	1:V:276:PHE:HE1	2.12	0.48
1:Z:286:ASP:O	1:Z:364:CYS:HA	2.14	0.48
1:a:286:ASP:O	1:a:364:CYS:HA	2.14	0.48
1:d:439:PRO:HB3	1:l:381:LEU:HD21	1.94	0.48
1:f:260:GLN:NE2	1:f:276:PHE:HE1	2.12	0.48
1:h:260:GLN:NE2	1:h:276:PHE:HE1	2.12	0.48
1:k:260:GLN:NE2	1:k:276:PHE:HE1	2.12	0.48
1:o:692:GLU:HG3	1:o:734:LEU:HD13	1.96	0.48
1:p:511:TYR:HD2	1:p:520:VAL:HG22	1.78	0.48
1:s:286:ASP:O	1:s:364:CYS:HA	2.14	0.48
1:t:487:ARG:HG2	1:t:488:GLN:N	2.29	0.48
1:u:254:ASN:O	1:u:255:ASN:C	2.53	0.48
1:u:286:ASP:O	1:u:364:CYS:HA	2.14	0.48
1:v:260:GLN:NE2	1:v:276:PHE:HE1	2.12	0.48
1:w:487:ARG:HG2	1:w:488:GLN:N	2.29	0.48
1:x:511:TYR:HD2	1:x:520:VAL:HG22	1.78	0.48
1:y:260:GLN:NE2	1:y:276:PHE:HE1	2.12	0.48
1:5:487:ARG:HG2	1:5:488:GLN:N	2.29	0.48
1:7:303:ILE:HG22	1:7:731:THR:HG23	1.95	0.48
1:B:286:ASP:O	1:B:364:CYS:HA	2.14	0.48
1:C:692:GLU:HG3	1:C:734:LEU:HD13	1.96	0.48
1:E:303:ILE:HG22	1:E:731:THR:HG23	1.95	0.48
1:K:511:TYR:HD2	1:K:520:VAL:HG22	1.78	0.48
1:N:260:GLN:NE2	1:N:276:PHE:HE1	2.12	0.48
1:Q:487:ARG:HG2	1:Q:488:GLN:N	2.29	0.48
1:S:487:ARG:HG2	1:S:488:GLN:N	2.29	0.48
1:T:260:GLN:NE2	1:T:276:PHE:HE1	2.12	0.48
1:T:286:ASP:O	1:T:364:CYS:HA	2.14	0.48
1:Y:692:GLU:HG3	1:Y:734:LEU:HD13	1.96	0.48
1:Z:303:ILE:HG22	1:Z:731:THR:HG23	1.95	0.48
1:Z:439:PRO:HB3	1:4:381:LEU:HD21	1.94	0.48
1:a:260:GLN:NE2	1:a:276:PHE:HE1	2.12	0.48
1:b:692:GLU:HG3	1:b:734:LEU:HD13	1.96	0.48
1:i:692:GLU:HG3	1:i:734:LEU:HD13	1.96	0.48
1:j:511:TYR:HD2	1:j:520:VAL:HG22	1.78	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:m:303:ILE:HG22	1:m:731:THR:HG23	1.95	0.48
1:o:303:ILE:HG22	1:o:731:THR:HG23	1.95	0.48
1:r:439:PRO:HB3	1:s:381:LEU:HD21	1.94	0.48
1:x:439:PRO:HB3	1:y:381:LEU:HD21	1.95	0.48
1:1:260:GLN:NE2	1:1:276:PHE:HE1	2.12	0.48
1:3:260:GLN:NE2	1:3:276:PHE:HE1	2.12	0.48
1:6:692:GLU:HG3	1:6:734:LEU:HD13	1.96	0.48
1:7:286:ASP:O	1:7:364:CYS:HA	2.14	0.48
1:E:286:ASP:O	1:E:364:CYS:HA	2.14	0.47
1:G:286:ASP:O	1:G:364:CYS:HA	2.14	0.47
1:G:303:ILE:HG22	1:G:731:THR:HG23	1.95	0.47
1:I:260:GLN:NE2	1:I:276:PHE:HE1	2.12	0.47
1:J:487:ARG:HG2	1:J:488:GLN:N	2.29	0.47
1:K:260:GLN:NE2	1:K:276:PHE:HE1	2.12	0.47
1:K:439:PRO:HB3	1:a:381:LEU:HD21	1.94	0.47
1:N:286:ASP:O	1:N:364:CYS:HA	2.14	0.47
1:O:260:GLN:NE2	1:O:276:PHE:HE1	2.12	0.47
1:P:260:GLN:NE2	1:P:276:PHE:HE1	2.12	0.47
1:T:406:LEU:HD21	1:T:412:PHE:HB2	1.96	0.47
1:Z:406:LEU:HD21	1:Z:412:PHE:HB2	1.96	0.47
1:b:286:ASP:O	1:b:364:CYS:HA	2.14	0.47
1:e:406:LEU:HD21	1:e:412:PHE:HB2	1.96	0.47
1:e:487:ARG:HG2	1:e:488:GLN:N	2.29	0.47
1:j:260:GLN:NE2	1:j:276:PHE:HE1	2.12	0.47
1:m:439:PRO:HB3	1:n:381:LEU:HD21	1.95	0.47
1:n:511:TYR:HD2	1:n:520:VAL:HG22	1.78	0.47
1:p:303:ILE:HG22	1:p:731:THR:HG23	1.95	0.47
1:q:511:TYR:HD2	1:q:520:VAL:HG22	1.78	0.47
1:r:692:GLU:HG3	1:r:734:LEU:HD13	1.96	0.47
1:u:487:ARG:HG2	1:u:488:GLN:N	2.29	0.47
1:v:258:TYR:OH	1:v:399:GLU:OE1	2.24	0.47
1:w:258:TYR:OH	1:w:399:GLU:OE1	2.24	0.47
1:w:406:LEU:HD21	1:w:412:PHE:HB2	1.96	0.47
1:1:406:LEU:HD21	1:1:412:PHE:HB2	1.96	0.47
1:2:511:TYR:HD2	1:2:520:VAL:HG22	1.78	0.47
1:6:303:ILE:HG22	1:6:731:THR:HG23	1.95	0.47
1:8:254:ASN:O	1:8:255:ASN:C	2.53	0.47
1:8:260:GLN:NE2	1:8:276:PHE:HE1	2.12	0.47
1:A:303:ILE:HG22	1:A:731:THR:HG23	1.95	0.47
1:F:303:ILE:HG22	1:F:731:THR:HG23	1.95	0.47
1:M:406:LEU:HD21	1:M:412:PHE:HB2	1.96	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:487:ARG:HG2	1:M:488:GLN:N	2.29	0.47
1:R:487:ARG:HG2	1:R:488:GLN:N	2.29	0.47
1:T:303:ILE:HG22	1:T:731:THR:HG23	1.95	0.47
1:U:258:TYR:OH	1:U:399:GLU:OE1	2.24	0.47
1:X:258:TYR:OH	1:X:399:GLU:OE1	2.24	0.47
1:c:260:GLN:NE2	1:c:276:PHE:HE1	2.12	0.47
1:d:511:TYR:HD2	1:d:520:VAL:HG22	1.78	0.47
1:f:511:TYR:HD2	1:f:520:VAL:HG22	1.78	0.47
1:m:406:LEU:HD21	1:m:412:PHE:HB2	1.96	0.47
1:o:406:LEU:HD21	1:o:412:PHE:HB2	1.96	0.47
1:p:286:ASP:O	1:p:364:CYS:HA	2.14	0.47
1:s:487:ARG:HG2	1:s:488:GLN:N	2.29	0.47
1:t:286:ASP:O	1:t:364:CYS:HA	2.14	0.47
1:w:260:GLN:NE2	1:w:276:PHE:HE1	2.12	0.47
1:y:329:ASN:O	1:y:332:THR:HG22	2.13	0.47
1:1:286:ASP:O	1:1:364:CYS:HA	2.14	0.47
1:3:329:ASN:O	1:3:332:THR:HG22	2.13	0.47
1:4:511:TYR:HD2	1:4:520:VAL:HG22	1.78	0.47
1:8:487:ARG:HG2	1:8:488:GLN:N	2.29	0.47
1:A:406:LEU:HD21	1:A:412:PHE:HB2	1.96	0.47
1:B:321:ILE:HD13	1:B:343:ILE:HD11	1.97	0.47
1:D:260:GLN:NE2	1:D:276:PHE:HE1	2.12	0.47
1:F:692:GLU:HG3	1:F:734:LEU:HD13	1.96	0.47
1:G:487:ARG:HG2	1:G:488:GLN:N	2.29	0.47
1:H:406:LEU:HD21	1:H:412:PHE:HB2	1.96	0.47
1:H:487:ARG:HG2	1:H:488:GLN:N	2.29	0.47
1:J:406:LEU:HD21	1:J:412:PHE:HB2	1.96	0.47
1:L:260:GLN:NE2	1:L:276:PHE:HE1	2.12	0.47
1:P:254:ASN:O	1:P:255:ASN:C	2.53	0.47
1:R:286:ASP:O	1:R:364:CYS:HA	2.14	0.47
1:W:511:TYR:HD2	1:W:520:VAL:HG22	1.78	0.47
1:a:406:LEU:HD21	1:a:412:PHE:HB2	1.96	0.47
1:a:443:GLN:NE2	1:8:359:SER:O	2.48	0.47
1:b:321:ILE:HD13	1:b:343:ILE:HD11	1.97	0.47
1:e:260:GLN:NE2	1:e:276:PHE:HE1	2.12	0.47
1:f:692:GLU:HG3	1:f:734:LEU:HD13	1.96	0.47
1:g:487:ARG:HG2	1:g:488:GLN:N	2.29	0.47
1:j:692:GLU:HG3	1:j:734:LEU:HD13	1.96	0.47
1:l:260:GLN:NE2	1:l:276:PHE:HE1	2.12	0.47
1:p:487:ARG:HG2	1:p:488:GLN:N	2.29	0.47
1:q:303:ILE:HG22	1:q:731:THR:HG23	1.95	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:r:321:ILE:HD13	1:r:343:ILE:HD11	1.97	0.47
1:r:487:ARG:HG2	1:r:488:GLN:N	2.29	0.47
1:s:406:LEU:HD21	1:s:412:PHE:HB2	1.96	0.47
1:u:382:THR:HG21	1:u:394:SER:N	2.28	0.47
1:u:511:TYR:HD2	1:u:520:VAL:HG22	1.78	0.47
1:x:260:GLN:NE2	1:x:276:PHE:HE1	2.12	0.47
1:z:260:GLN:NE2	1:z:276:PHE:HE1	2.12	0.47
1:A:329:ASN:O	1:A:332:THR:HG22	2.13	0.47
1:A:660:PRO:HG2	1:B:251:PRO:HB3	1.97	0.47
1:D:329:ASN:O	1:D:332:THR:HG22	2.13	0.47
1:E:487:ARG:HG2	1:E:488:GLN:N	2.29	0.47
1:L:329:ASN:O	1:L:332:THR:HG22	2.13	0.47
1:N:406:LEU:HD21	1:N:412:PHE:HB2	1.97	0.47
1:O:329:ASN:O	1:O:332:THR:HG22	2.13	0.47
1:O:660:PRO:HG2	1:d:251:PRO:HB3	1.97	0.47
1:P:251:PRO:HB3	1:Q:660:PRO:HG2	1.97	0.47
1:P:406:LEU:HD21	1:P:412:PHE:HB2	1.96	0.47
1:P:487:ARG:HG2	1:P:488:GLN:N	2.29	0.47
1:R:406:LEU:HD21	1:R:412:PHE:HB2	1.97	0.47
1:S:321:ILE:HD13	1:S:343:ILE:HD11	1.97	0.47
1:U:487:ARG:HG2	1:U:488:GLN:N	2.29	0.47
1:V:692:GLU:HG3	1:V:734:LEU:HD13	1.96	0.47
1:X:260:GLN:NE2	1:X:276:PHE:HE1	2.12	0.47
1:Y:321:ILE:HD13	1:Y:343:ILE:HD11	1.97	0.47
1:Y:487:ARG:HG2	1:Y:488:GLN:N	2.29	0.47
1:Z:511:TYR:HD2	1:Z:520:VAL:HG22	1.78	0.47
1:d:692:GLU:HG3	1:d:734:LEU:HD13	1.96	0.47
1:e:258:TYR:OH	1:e:399:GLU:OE1	2.23	0.47
1:f:487:ARG:HD2	1:g:583:ALA:O	2.12	0.47
1:j:321:ILE:HD13	1:j:343:ILE:HD11	1.97	0.47
1:l:323:VAL:HG11	1:l:675:GLN:HE21	1.80	0.47
1:u:321:ILE:HD13	1:u:343:ILE:HD11	1.97	0.47
1:x:258:TYR:OH	1:x:399:GLU:OE1	2.23	0.47
1:x:438:ASN:HB2	1:y:356:VAL:CG2	2.45	0.47
1:y:692:GLU:HG3	1:y:734:LEU:HD13	1.96	0.47
1:1:303:ILE:HG22	1:1:731:THR:HG23	1.95	0.47
1:2:692:GLU:HG3	1:2:734:LEU:HD13	1.96	0.47
1:4:487:ARG:HG2	1:4:488:GLN:N	2.29	0.47
1:7:487:ARG:HG2	1:7:488:GLN:N	2.29	0.47
1:C:260:GLN:NE2	1:C:276:PHE:HE1	2.12	0.47
1:C:329:ASN:O	1:C:332:THR:HG22	2.13	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:226:SER:HB3	1:D:411:ASN:HB3	1.97	0.47
1:D:439:PRO:HB3	1:N:381:LEU:HD21	1.94	0.47
1:F:286:ASP:O	1:F:364:CYS:HA	2.14	0.47
1:G:323:VAL:HG11	1:G:675:GLN:HE21	1.80	0.47
1:K:226:SER:HB3	1:K:411:ASN:HB3	1.97	0.47
1:K:286:ASP:O	1:K:364:CYS:HA	2.14	0.47
1:K:329:ASN:O	1:K:332:THR:HG22	2.13	0.47
1:N:443:GLN:NE2	1:P:359:SER:O	2.48	0.47
1:O:406:LEU:HD21	1:O:412:PHE:HB2	1.96	0.47
1:S:382:THR:HG21	1:S:394:SER:N	2.28	0.47
1:S:511:TYR:HD2	1:S:520:VAL:HG22	1.78	0.47
1:U:406:LEU:HD21	1:U:412:PHE:HB2	1.96	0.47
1:V:329:ASN:O	1:V:332:THR:HG22	2.13	0.47
1:W:303:ILE:HG22	1:W:731:THR:HG23	1.95	0.47
1:Y:406:LEU:HD21	1:Y:412:PHE:HB2	1.96	0.47
1:d:303:ILE:HG22	1:d:731:THR:HG23	1.95	0.47
1:f:321:ILE:HD13	1:f:343:ILE:HD11	1.97	0.47
1:g:321:ILE:HD13	1:g:343:ILE:HD11	1.97	0.47
1:g:323:VAL:HG11	1:g:675:GLN:HE21	1.80	0.47
1:h:286:ASP:O	1:h:364:CYS:HA	2.14	0.47
1:h:692:GLU:HG3	1:h:734:LEU:HD13	1.96	0.47
1:i:321:ILE:HD13	1:i:343:ILE:HD11	1.97	0.47
1:i:323:VAL:HG11	1:i:675:GLN:HE21	1.80	0.47
1:l:511:TYR:HD2	1:l:520:VAL:HG22	1.78	0.47
1:n:260:GLN:NE2	1:n:276:PHE:HE1	2.12	0.47
1:o:329:ASN:O	1:o:332:THR:HG22	2.13	0.47
1:p:323:VAL:HG11	1:p:675:GLN:HE21	1.80	0.47
1:r:323:VAL:HG11	1:r:675:GLN:HE21	1.80	0.47
1:t:406:LEU:HD21	1:t:412:PHE:HB2	1.97	0.47
1:u:323:VAL:HG11	1:u:675:GLN:HE21	1.80	0.47
1:u:406:LEU:HD21	1:u:412:PHE:HB2	1.96	0.47
1:2:303:ILE:HG22	1:2:731:THR:HG23	1.95	0.47
1:2:487:ARG:HG2	1:2:488:GLN:N	2.29	0.47
1:3:406:LEU:HD21	1:3:412:PHE:HB2	1.97	0.47
1:3:487:ARG:HG2	1:3:488:GLN:N	2.29	0.47
1:4:260:GLN:NE2	1:4:276:PHE:HE1	2.12	0.47
1:8:286:ASP:O	1:8:364:CYS:HA	2.14	0.47
1:8:406:LEU:HD21	1:8:412:PHE:HB2	1.96	0.47
1:B:329:ASN:O	1:B:332:THR:HG22	2.13	0.47
1:C:254:ASN:O	1:C:255:ASN:C	2.53	0.47
1:D:286:ASP:O	1:D:364:CYS:HA	2.14	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:660:PRO:HG2	1:E:251:PRO:HB3	1.97	0.47
1:F:321:ILE:HD13	1:F:343:ILE:HD11	1.97	0.47
1:I:286:ASP:O	1:I:364:CYS:HA	2.14	0.47
1:K:321:ILE:HD13	1:K:343:ILE:HD11	1.97	0.47
1:O:487:ARG:HG2	1:O:488:GLN:N	2.29	0.47
1:Q:260:GLN:NE2	1:Q:276:PHE:HE1	2.12	0.47
1:R:660:PRO:HG2	1:V:251:PRO:HB3	1.97	0.47
1:S:323:VAL:HG11	1:S:675:GLN:HE21	1.80	0.47
1:S:406:LEU:HD21	1:S:412:PHE:HB2	1.97	0.47
1:S:692:GLU:HG3	1:S:734:LEU:HD13	1.96	0.47
1:U:321:ILE:HD13	1:U:343:ILE:HD11	1.97	0.47
1:V:660:PRO:HG2	1:W:251:PRO:HB3	1.97	0.47
1:Y:323:VAL:HG11	1:Y:675:GLN:HE21	1.80	0.47
1:Y:329:ASN:O	1:Y:332:THR:HG22	2.13	0.47
1:d:487:ARG:HG2	1:d:488:GLN:N	2.29	0.47
1:e:286:ASP:O	1:e:364:CYS:HA	2.14	0.47
1:g:428:ALA:O	1:g:735:THR:HA	2.15	0.47
1:i:487:ARG:HG2	1:i:488:GLN:N	2.29	0.47
1:k:286:ASP:O	1:k:364:CYS:HA	2.14	0.47
1:k:692:GLU:HG3	1:k:734:LEU:HD13	1.96	0.47
1:l:321:ILE:HD13	1:l:343:ILE:HD11	1.97	0.47
1:m:511:TYR:HD2	1:m:520:VAL:HG22	1.78	0.47
1:n:487:ARG:HG2	1:n:488:GLN:N	2.29	0.47
1:v:321:ILE:HD13	1:v:343:ILE:HD11	1.97	0.47
1:v:406:LEU:HD21	1:v:412:PHE:HB2	1.97	0.47
1:v:487:ARG:HG2	1:v:488:GLN:N	2.29	0.47
1:w:286:ASP:O	1:w:364:CYS:HA	2.14	0.47
1:z:321:ILE:HD13	1:z:343:ILE:HD11	1.97	0.47
1:z:323:VAL:HG11	1:z:675:GLN:HE21	1.80	0.47
1:5:660:PRO:HG2	1:8:251:PRO:HB3	1.97	0.47
1:6:286:ASP:O	1:6:364:CYS:HA	2.14	0.47
1:A:226:SER:HB3	1:A:411:ASN:HB3	1.97	0.47
1:A:251:PRO:HB3	1:E:660:PRO:HG2	1.97	0.47
1:B:483:GLY:HA3	1:B:609:TRP:HB3	1.97	0.47
1:D:321:ILE:HD13	1:D:343:ILE:HD11	1.97	0.47
1:D:483:GLY:HA3	1:D:609:TRP:HB3	1.97	0.47
1:D:487:ARG:HG2	1:D:488:GLN:N	2.29	0.47
1:F:260:GLN:NE2	1:F:276:PHE:HE1	2.12	0.47
1:F:487:ARG:HG2	1:F:488:GLN:N	2.29	0.47
1:F:511:TYR:HD2	1:F:520:VAL:HG22	1.78	0.47
1:G:226:SER:HB3	1:G:411:ASN:HB3	1.97	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:329:ASN:O	1:G:332:THR:HG22	2.13	0.47
1:G:406:LEU:HD21	1:G:412:PHE:HB2	1.96	0.47
1:H:483:GLY:HA3	1:H:609:TRP:HB3	1.97	0.47
1:K:251:PRO:HB3	1:L:660:PRO:HG2	1.97	0.47
1:K:487:ARG:HG2	1:K:488:GLN:N	2.29	0.47
1:K:660:PRO:HG2	1:7:251:PRO:HB3	1.97	0.47
1:K:692:GLU:HG3	1:K:734:LEU:HD13	1.96	0.47
1:L:254:ASN:O	1:L:255:ASN:C	2.53	0.47
1:N:323:VAL:HG11	1:N:675:GLN:HE21	1.80	0.47
1:O:286:ASP:O	1:O:364:CYS:HA	2.14	0.47
1:O:483:GLY:HA3	1:O:609:TRP:HB3	1.97	0.47
1:O:692:GLU:HG3	1:O:734:LEU:HD13	1.96	0.47
1:P:286:ASP:O	1:P:364:CYS:HA	2.14	0.47
1:P:323:VAL:HG11	1:P:675:GLN:HE21	1.80	0.47
1:R:254:ASN:O	1:R:255:ASN:C	2.53	0.47
1:R:323:VAL:HG11	1:R:675:GLN:HE21	1.80	0.47
1:W:226:SER:HB3	1:W:411:ASN:HB3	1.97	0.47
1:W:260:GLN:NE2	1:W:276:PHE:HE1	2.12	0.47
1:W:406:LEU:HD21	1:W:412:PHE:HB2	1.96	0.47
1:Y:226:SER:HB3	1:Y:411:ASN:HB3	1.97	0.47
1:Y:483:GLY:HA3	1:Y:609:TRP:HB3	1.97	0.47
1:Z:321:ILE:HD13	1:Z:343:ILE:HD11	1.97	0.47
1:b:226:SER:HB3	1:b:411:ASN:HB3	1.97	0.47
1:b:251:PRO:HB3	1:o:660:PRO:HG2	1.97	0.47
1:b:329:ASN:O	1:b:332:THR:HG22	2.13	0.47
1:b:483:GLY:HA3	1:b:609:TRP:HB3	1.97	0.47
1:c:286:ASP:O	1:c:364:CYS:HA	2.14	0.47
1:e:428:ALA:O	1:e:735:THR:HA	2.15	0.47
1:f:323:VAL:HG11	1:f:675:GLN:HE21	1.80	0.47
1:g:286:ASP:O	1:g:364:CYS:HA	2.14	0.47
1:g:406:LEU:HD21	1:g:412:PHE:HB2	1.96	0.47
1:i:286:ASP:O	1:i:364:CYS:HA	2.14	0.47
1:i:406:LEU:HD21	1:i:412:PHE:HB2	1.96	0.47
1:i:428:ALA:O	1:i:735:THR:HA	2.15	0.47
1:i:583:ALA:O	1:j:487:ARG:HD2	2.13	0.47
1:k:382:THR:HG21	1:k:394:SER:N	2.28	0.47
1:k:406:LEU:HD21	1:k:412:PHE:HB2	1.96	0.47
1:l:226:SER:HB3	1:l:411:ASN:HB3	1.97	0.47
1:o:226:SER:HB3	1:o:411:ASN:HB3	1.97	0.47
1:o:487:ARG:HG2	1:o:488:GLN:N	2.29	0.47
1:p:226:SER:HB3	1:p:411:ASN:HB3	1.97	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:q:251:PRO:HB3	1:y:660:PRO:HG2	1.97	0.47
1:q:260:GLN:NE2	1:q:276:PHE:HE1	2.12	0.47
1:q:406:LEU:HD21	1:q:412:PHE:HB2	1.96	0.47
1:r:226:SER:HB3	1:r:411:ASN:HB3	1.97	0.47
1:r:406:LEU:HD21	1:r:412:PHE:HB2	1.96	0.47
1:r:483:GLY:HA3	1:r:609:TRP:HB3	1.97	0.47
1:s:483:GLY:HA3	1:s:609:TRP:HB3	1.97	0.47
1:t:323:VAL:HG11	1:t:675:GLN:HE21	1.80	0.47
1:u:692:GLU:HG3	1:u:734:LEU:HD13	1.96	0.47
1:v:286:ASP:O	1:v:364:CYS:HA	2.14	0.47
1:w:428:ALA:O	1:w:735:THR:HA	2.15	0.47
1:x:226:SER:HB3	1:x:411:ASN:HB3	1.97	0.47
1:z:226:SER:HB3	1:z:411:ASN:HB3	1.97	0.47
1:z:511:TYR:HD2	1:z:520:VAL:HG22	1.78	0.47
1:1:483:GLY:HA3	1:1:609:TRP:HB3	1.97	0.47
1:2:251:PRO:HB3	1:3:660:PRO:HG2	1.97	0.47
1:4:428:ALA:O	1:4:735:THR:HA	2.15	0.47
1:5:260:GLN:NE2	1:5:276:PHE:HE1	2.12	0.47
1:5:286:ASP:O	1:5:364:CYS:HA	2.14	0.47
1:6:321:ILE:HD13	1:6:343:ILE:HD11	1.97	0.47
1:6:511:TYR:HD2	1:6:520:VAL:HG22	1.78	0.47
1:7:260:GLN:NE2	1:7:276:PHE:HE1	2.12	0.47
1:8:323:VAL:HG11	1:8:675:GLN:HE21	1.80	0.47
1:A:286:ASP:O	1:A:364:CYS:HA	2.14	0.47
1:A:487:ARG:HG2	1:A:488:GLN:N	2.29	0.47
1:B:260:GLN:NE2	1:B:276:PHE:HE1	2.12	0.47
1:C:406:LEU:HD21	1:C:412:PHE:HB2	1.97	0.47
1:D:323:VAL:HG11	1:D:675:GLN:HE21	1.80	0.47
1:D:382:THR:HG22	1:D:383:LEU:H	1.80	0.47
1:H:260:GLN:NE2	1:H:276:PHE:HE1	2.12	0.47
1:K:483:GLY:HA3	1:K:609:TRP:HB3	1.97	0.47
1:L:406:LEU:HD21	1:L:412:PHE:HB2	1.96	0.47
1:M:251:PRO:HB3	1:N:660:PRO:HG2	1.97	0.47
1:O:226:SER:HB3	1:O:411:ASN:HB3	1.97	0.47
1:P:382:THR:HG22	1:P:383:LEU:H	1.80	0.47
1:U:286:ASP:O	1:U:364:CYS:HA	2.14	0.47
1:U:428:ALA:O	1:U:735:THR:HA	2.15	0.47
1:V:226:SER:HB3	1:V:411:ASN:HB3	1.97	0.47
1:V:303:ILE:HG22	1:V:731:THR:HG23	1.95	0.47
1:V:323:VAL:HG11	1:V:675:GLN:HE21	1.80	0.47
1:X:226:SER:HB3	1:X:411:ASN:HB3	1.97	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:f:487:ARG:HG2	1:f:488:GLN:N	2.29	0.47
1:g:260:GLN:NE2	1:g:276:PHE:HE1	2.12	0.47
1:h:226:SER:HB3	1:h:411:ASN:HB3	1.97	0.47
1:h:406:LEU:HD21	1:h:412:PHE:HB2	1.96	0.47
1:h:483:GLY:HA3	1:h:609:TRP:HB3	1.97	0.47
1:h:487:ARG:HG2	1:h:488:GLN:N	2.29	0.47
1:i:260:GLN:NE2	1:i:276:PHE:HE1	2.12	0.47
1:j:226:SER:HB3	1:j:411:ASN:HB3	1.97	0.47
1:j:487:ARG:HG2	1:j:488:GLN:N	2.29	0.47
1:k:226:SER:HB3	1:k:411:ASN:HB3	1.97	0.47
1:k:483:GLY:HA3	1:k:609:TRP:HB3	1.97	0.47
1:k:487:ARG:HG2	1:k:488:GLN:N	2.29	0.47
1:l:428:ALA:O	1:l:735:THR:HA	2.15	0.47
1:m:321:ILE:HD13	1:m:343:ILE:HD11	1.97	0.47
1:n:382:THR:HG21	1:n:394:SER:N	2.28	0.47
1:p:406:LEU:HD21	1:p:412:PHE:HB2	1.96	0.47
1:q:226:SER:HB3	1:q:411:ASN:HB3	1.97	0.47
1:r:286:ASP:O	1:r:364:CYS:HA	2.14	0.47
1:r:329:ASN:O	1:r:332:THR:HG22	2.13	0.47
1:t:254:ASN:O	1:t:255:ASN:C	2.53	0.47
1:t:321:ILE:HD13	1:t:343:ILE:HD11	1.97	0.47
1:w:359:SER:O	1:y:443:GLN:NE2	2.48	0.47
1:y:323:VAL:HG11	1:y:675:GLN:HE21	1.80	0.47
1:y:406:LEU:HD21	1:y:412:PHE:HB2	1.96	0.47
1:z:428:ALA:O	1:z:735:THR:HA	2.15	0.47
1:z:660:PRO:HG2	1:4:251:PRO:HB3	1.97	0.47
1:z:692:GLU:HG3	1:z:734:LEU:HD13	1.96	0.47
1:3:226:SER:HB3	1:3:411:ASN:HB3	1.97	0.47
1:3:483:GLY:HA3	1:3:609:TRP:HB3	1.97	0.47
1:6:260:GLN:NE2	1:6:276:PHE:HE1	2.12	0.47
1:B:226:SER:HB3	1:B:411:ASN:HB3	1.97	0.47
1:C:660:PRO:HG2	1:D:251:PRO:HB3	1.97	0.47
1:E:321:ILE:HD13	1:E:343:ILE:HD11	1.97	0.47
1:F:382:THR:HG22	1:F:383:LEU:H	1.80	0.47
1:H:443:GLN:NE2	1:W:359:SER:O	2.48	0.47
1:I:406:LEU:HD21	1:I:412:PHE:HB2	1.96	0.47
1:J:483:GLY:HA3	1:J:609:TRP:HB3	1.97	0.47
1:K:323:VAL:HG11	1:K:675:GLN:HE21	1.80	0.47
1:O:251:PRO:HB3	1:P:660:PRO:HG2	1.97	0.47
1:P:321:ILE:HD13	1:P:343:ILE:HD11	1.97	0.47
1:Q:286:ASP:O	1:Q:364:CYS:HA	2.14	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:R:321:ILE:HD13	1:R:343:ILE:HD11	1.97	0.47
1:T:428:ALA:O	1:T:735:THR:HA	2.15	0.47
1:T:483:GLY:HA3	1:T:609:TRP:HB3	1.97	0.47
1:U:323:VAL:HG11	1:U:675:GLN:HE21	1.80	0.47
1:V:483:GLY:HA3	1:V:609:TRP:HB3	1.97	0.47
1:W:323:VAL:HG11	1:W:675:GLN:HE21	1.80	0.47
1:Y:286:ASP:O	1:Y:364:CYS:HA	2.14	0.47
1:Z:443:GLN:NE2	1:4:359:SER:O	2.48	0.47
1:c:323:VAL:HG11	1:c:675:GLN:HE21	1.80	0.47
1:f:226:SER:HB3	1:f:411:ASN:HB3	1.97	0.47
1:f:406:LEU:HD21	1:f:412:PHE:HB2	1.96	0.47
1:h:382:THR:HG21	1:h:394:SER:N	2.28	0.47
1:j:323:VAL:HG11	1:j:675:GLN:HE21	1.80	0.47
1:j:483:GLY:HA3	1:j:609:TRP:HB3	1.97	0.47
1:l:487:ARG:HG2	1:l:488:GLN:N	2.29	0.47
1:l:692:GLU:HG3	1:l:734:LEU:HD13	1.96	0.47
1:m:251:PRO:HB3	1:s:660:PRO:HG2	1.97	0.47
1:o:251:PRO:HB3	1:7:660:PRO:HG2	1.97	0.47
1:o:258:TYR:OH	1:o:399:GLU:OE1	2.23	0.47
1:o:286:ASP:O	1:o:364:CYS:HA	2.14	0.47
1:p:329:ASN:O	1:p:332:THR:HG22	2.13	0.47
1:p:483:GLY:HA3	1:p:609:TRP:HB3	1.97	0.47
1:q:359:SER:O	1:s:443:GLN:NE2	2.48	0.47
1:u:443:GLN:NE2	1:v:359:SER:O	2.48	0.47
1:v:323:VAL:HG11	1:v:675:GLN:HE21	1.80	0.47
1:v:428:ALA:O	1:v:735:THR:HA	2.15	0.47
1:y:226:SER:HB3	1:y:411:ASN:HB3	1.97	0.47
1:y:483:GLY:HA3	1:y:609:TRP:HB3	1.97	0.47
1:1:428:ALA:O	1:1:735:THR:HA	2.15	0.47
1:3:286:ASP:O	1:3:364:CYS:HA	2.14	0.47
1:3:692:GLU:HG3	1:3:734:LEU:HD13	1.96	0.47
1:4:382:THR:HG21	1:4:394:SER:N	2.28	0.47
1:6:382:THR:HG22	1:6:383:LEU:H	1.80	0.47
1:6:487:ARG:HG2	1:6:488:GLN:N	2.29	0.47
1:7:321:ILE:HD13	1:7:343:ILE:HD11	1.97	0.47
1:A:258:TYR:OH	1:A:399:GLU:OE1	2.23	0.47
1:G:483:GLY:HA3	1:G:609:TRP:HB3	1.97	0.47
1:I:323:VAL:HG11	1:I:675:GLN:HE21	1.80	0.47
1:I:428:ALA:O	1:I:735:THR:HA	2.15	0.47
1:K:382:THR:HG22	1:K:383:LEU:H	1.80	0.47
1:K:406:LEU:HD21	1:K:412:PHE:HB2	1.96	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:483:GLY:HA3	1:M:609:TRP:HB3	1.97	0.47
1:M:660:PRO:HG2	1:c:251:PRO:HB3	1.97	0.47
1:P:483:GLY:HA3	1:P:609:TRP:HB3	1.97	0.47
1:Q:692:GLU:HG3	1:Q:734:LEU:HD13	1.96	0.47
1:S:382:THR:HG22	1:S:383:LEU:H	1.80	0.47
1:V:406:LEU:HD21	1:V:412:PHE:HB2	1.96	0.47
1:V:443:GLN:NE2	1:e:359:SER:O	2.48	0.47
1:X:428:ALA:O	1:X:735:THR:HA	2.15	0.47
1:Z:226:SER:HB3	1:Z:411:ASN:HB3	1.97	0.47
1:Z:428:ALA:O	1:Z:735:THR:HA	2.15	0.47
1:a:323:VAL:HG11	1:a:675:GLN:HE21	1.80	0.47
1:a:487:ARG:HG2	1:a:488:GLN:N	2.29	0.47
1:b:260:GLN:NE2	1:b:276:PHE:HE1	2.12	0.47
1:c:406:LEU:HD21	1:c:412:PHE:HB2	1.96	0.47
1:c:428:ALA:O	1:c:735:THR:HA	2.15	0.47
1:f:483:GLY:HA3	1:f:609:TRP:HB3	1.97	0.47
1:g:382:THR:HG22	1:g:383:LEU:H	1.80	0.47
1:j:406:LEU:HD21	1:j:412:PHE:HB2	1.96	0.47
1:l:660:PRO:HG2	1:n:251:PRO:HB3	1.97	0.47
1:m:428:ALA:O	1:m:735:THR:HA	2.15	0.47
1:n:428:ALA:O	1:n:735:THR:HA	2.15	0.47
1:q:323:VAL:HG11	1:q:675:GLN:HE21	1.80	0.47
1:s:260:GLN:NE2	1:s:276:PHE:HE1	2.12	0.47
1:t:660:PRO:HG2	1:y:251:PRO:HB3	1.97	0.47
1:u:382:THR:HG22	1:u:383:LEU:H	1.80	0.47
1:z:487:ARG:HG2	1:z:488:GLN:N	2.29	0.47
1:4:692:GLU:HG3	1:4:734:LEU:HD13	1.96	0.47
1:7:406:LEU:HD21	1:7:412:PHE:HB2	1.96	0.47
1:8:382:THR:HG22	1:8:383:LEU:H	1.80	0.47
1:A:428:ALA:O	1:A:735:THR:HA	2.15	0.46
1:D:406:LEU:HD21	1:D:412:PHE:HB2	1.97	0.46
1:D:692:GLU:HG3	1:D:734:LEU:HD13	1.96	0.46
1:E:260:GLN:NE2	1:E:276:PHE:HE1	2.12	0.46
1:E:406:LEU:HD21	1:E:412:PHE:HB2	1.97	0.46
1:E:483:GLY:HA3	1:E:609:TRP:HB3	1.97	0.46
1:H:660:PRO:HG2	1:Z:251:PRO:HB3	1.97	0.46
1:I:382:THR:HG22	1:I:383:LEU:H	1.80	0.46
1:J:251:PRO:HB3	1:a:660:PRO:HG2	1.97	0.46
1:J:428:ALA:O	1:J:735:THR:HA	2.15	0.46
1:N:487:ARG:HG2	1:N:488:GLN:N	2.29	0.46
1:i:382:THR:HG22	1:i:383:LEU:H	1.80	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:m:226:SER:HB3	1:m:411:ASN:HB3	1.97	0.46
1:n:406:LEU:HD21	1:n:412:PHE:HB2	1.97	0.46
1:n:692:GLU:HG3	1:n:734:LEU:HD13	1.96	0.46
1:o:428:ALA:O	1:o:735:THR:HA	2.15	0.46
1:u:428:ALA:O	1:u:735:THR:HA	2.15	0.46
1:y:303:ILE:HG22	1:y:731:THR:HG23	1.95	0.46
1:2:483:GLY:HA3	1:2:609:TRP:HB3	1.97	0.46
1:3:251:PRO:HB3	1:8:660:PRO:HG2	1.97	0.46
1:4:406:LEU:HD21	1:4:412:PHE:HB2	1.97	0.46
1:5:692:GLU:HG3	1:5:734:LEU:HD13	1.96	0.46
1:7:483:GLY:HA3	1:7:609:TRP:HB3	1.97	0.46
1:8:321:ILE:HD13	1:8:343:ILE:HD11	1.97	0.46
1:8:483:GLY:HA3	1:8:609:TRP:HB3	1.97	0.46
1:A:382:THR:HG22	1:A:383:LEU:H	1.80	0.46
1:B:323:VAL:HG11	1:B:675:GLN:HE21	1.80	0.46
1:I:251:PRO:HB3	1:J:660:PRO:HG2	1.97	0.46
1:L:323:VAL:HG11	1:L:675:GLN:HE21	1.80	0.46
1:M:321:ILE:HD13	1:M:343:ILE:HD11	1.97	0.46
1:M:428:ALA:O	1:M:735:THR:HA	2.15	0.46
1:R:483:GLY:HA3	1:R:609:TRP:HB3	1.97	0.46
1:S:428:ALA:O	1:S:735:THR:HA	2.15	0.46
1:Y:382:THR:HG22	1:Y:383:LEU:H	1.80	0.46
1:b:428:ALA:O	1:b:735:THR:HA	2.15	0.46
1:c:382:THR:HG22	1:c:383:LEU:H	1.80	0.46
1:d:226:SER:HB3	1:d:411:ASN:HB3	1.97	0.46
1:d:483:GLY:HA3	1:d:609:TRP:HB3	1.97	0.46
1:e:226:SER:HB3	1:e:411:ASN:HB3	1.97	0.46
1:k:323:VAL:HG11	1:k:675:GLN:HE21	1.80	0.46
1:k:382:THR:HG22	1:k:383:LEU:H	1.80	0.46
1:l:382:THR:HG21	1:l:394:SER:N	2.28	0.46
1:n:660:PRO:HG2	1:r:251:PRO:HB3	1.97	0.46
1:x:321:ILE:HD13	1:x:343:ILE:HD11	1.97	0.46
1:y:382:THR:HG22	1:y:383:LEU:H	1.80	0.46
1:z:382:THR:HG21	1:z:394:SER:N	2.28	0.46
1:z:443:GLN:NE2	1:1:359:SER:O	2.48	0.46
1:2:226:SER:HB3	1:2:411:ASN:HB3	1.97	0.46
1:6:323:VAL:HG11	1:6:675:GLN:HE21	1.80	0.46
1:B:406:LEU:HD21	1:B:412:PHE:HB2	1.97	0.46
1:B:428:ALA:O	1:B:735:THR:HA	2.15	0.46
1:D:258:TYR:OH	1:D:399:GLU:OE1	2.23	0.46
1:F:323:VAL:HG11	1:F:675:GLN:HE21	1.80	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:321:ILE:HD13	1:G:343:ILE:HD11	1.97	0.46
1:H:323:VAL:HG11	1:H:675:GLN:HE21	1.80	0.46
1:H:428:ALA:O	1:H:735:THR:HA	2.15	0.46
1:J:321:ILE:HD13	1:J:343:ILE:HD11	1.97	0.46
1:Q:251:PRO:HB3	1:S:660:PRO:HG2	1.97	0.46
1:T:359:SER:O	1:l:443:GLN:NE2	2.48	0.46
1:V:382:THR:HG22	1:V:383:LEU:H	1.80	0.46
1:Y:251:PRO:HB3	1:4:660:PRO:HG2	1.97	0.46
1:b:323:VAL:HG11	1:b:675:GLN:HE21	1.80	0.46
1:e:251:PRO:HB3	1:h:660:PRO:HG2	1.96	0.46
1:g:483:GLY:HA3	1:g:609:TRP:HB3	1.97	0.46
1:h:382:THR:HG22	1:h:383:LEU:H	1.80	0.46
1:i:483:GLY:HA3	1:i:609:TRP:HB3	1.97	0.46
1:m:443:GLN:NE2	1:n:359:SER:O	2.48	0.46
1:n:226:SER:HB3	1:n:411:ASN:HB3	1.97	0.46
1:o:382:THR:HG22	1:o:383:LEU:H	1.80	0.46
1:q:382:THR:HG21	1:q:394:SER:N	2.28	0.46
1:q:443:GLN:NE2	1:r:359:SER:O	2.48	0.46
1:r:382:THR:HG22	1:r:383:LEU:H	1.80	0.46
1:t:483:GLY:HA3	1:t:609:TRP:HB3	1.97	0.46
1:x:428:ALA:O	1:x:735:THR:HA	2.15	0.46
1:z:382:THR:HG22	1:z:383:LEU:H	1.80	0.46
1:2:406:LEU:HD21	1:2:412:PHE:HB2	1.97	0.46
1:4:226:SER:HB3	1:4:411:ASN:HB3	1.97	0.46
1:B:356:VAL:CG2	1:L:438:ASN:HB2	2.46	0.46
1:B:443:GLN:NE2	1:J:359:SER:O	2.48	0.46
1:B:446:TYR:CE1	1:B:467:GLN:HG3	2.51	0.46
1:B:660:PRO:HG2	1:C:251:PRO:HB3	1.97	0.46
1:C:438:ASN:HB2	1:b:356:VAL:CG2	2.46	0.46
1:C:483:GLY:HA3	1:C:609:TRP:HB3	1.97	0.46
1:D:428:ALA:O	1:D:735:THR:HA	2.15	0.46
1:F:428:ALA:O	1:F:735:THR:HA	2.15	0.46
1:G:251:PRO:HB3	1:W:660:PRO:HG2	1.97	0.46
1:I:483:GLY:HA3	1:I:609:TRP:HB3	1.97	0.46
1:K:428:ALA:O	1:K:735:THR:HA	2.15	0.46
1:M:359:SER:O	1:b:443:GLN:NE2	2.48	0.46
1:O:321:ILE:HD13	1:O:343:ILE:HD11	1.97	0.46
1:P:382:THR:HG21	1:P:394:SER:N	2.28	0.46
1:R:428:ALA:O	1:R:735:THR:HA	2.15	0.46
1:S:226:SER:HB3	1:S:411:ASN:HB3	1.97	0.46
1:S:382:THR:HG22	1:S:383:LEU:N	2.31	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:W:382:THR:HG22	1:W:383:LEU:H	1.80	0.46
1:X:321:ILE:HD13	1:X:343:ILE:HD11	1.97	0.46
1:X:382:THR:HG22	1:X:383:LEU:H	1.80	0.46
1:Y:428:ALA:O	1:Y:735:THR:HA	2.15	0.46
1:d:406:LEU:HD21	1:d:412:PHE:HB2	1.96	0.46
1:e:323:VAL:HG11	1:e:675:GLN:HE21	1.80	0.46
1:g:226:SER:HB3	1:g:411:ASN:HB3	1.97	0.46
1:i:226:SER:HB3	1:i:411:ASN:HB3	1.97	0.46
1:l:382:THR:HG22	1:l:383:LEU:H	1.80	0.46
1:n:321:ILE:HD13	1:n:343:ILE:HD11	1.97	0.46
1:p:321:ILE:HD13	1:p:343:ILE:HD11	1.97	0.46
1:q:382:THR:HG22	1:q:383:LEU:H	1.80	0.46
1:r:428:ALA:O	1:r:735:THR:HA	2.15	0.46
1:u:382:THR:HG22	1:u:383:LEU:N	2.31	0.46
1:w:226:SER:HB3	1:w:411:ASN:HB3	1.97	0.46
1:w:321:ILE:HD13	1:w:343:ILE:HD11	1.97	0.46
1:x:323:VAL:HG11	1:x:675:GLN:HE21	1.80	0.46
1:x:443:GLN:NE2	1:y:359:SER:O	2.46	0.46
1:2:321:ILE:HD13	1:2:343:ILE:HD11	1.97	0.46
1:5:226:SER:HB3	1:5:411:ASN:HB3	1.97	0.46
1:6:428:ALA:O	1:6:735:THR:HA	2.15	0.46
1:A:321:ILE:HD13	1:A:343:ILE:HD11	1.97	0.46
1:C:323:VAL:HG11	1:C:675:GLN:HE21	1.80	0.46
1:E:226:SER:HB3	1:E:411:ASN:HB3	1.97	0.46
1:I:382:THR:HG22	1:I:383:LEU:N	2.31	0.46
1:J:323:VAL:HG11	1:J:675:GLN:HE21	1.80	0.46
1:J:382:THR:HG21	1:J:394:SER:N	2.28	0.46
1:K:258:TYR:OH	1:K:399:GLU:OE1	2.24	0.46
1:L:483:GLY:HA3	1:L:609:TRP:HB3	1.97	0.46
1:M:323:VAL:HG11	1:M:675:GLN:HE21	1.80	0.46
1:M:382:THR:HG22	1:M:383:LEU:H	1.80	0.46
1:P:446:TYR:CE1	1:P:467:GLN:HG3	2.51	0.46
1:S:251:PRO:HB3	1:d:660:PRO:HG2	1.97	0.46
1:V:428:ALA:O	1:V:735:THR:HA	2.15	0.46
1:V:446:TYR:CE1	1:V:467:GLN:HG3	2.51	0.46
1:W:382:THR:HG21	1:W:394:SER:N	2.28	0.46
1:X:323:VAL:HG11	1:X:675:GLN:HE21	1.80	0.46
1:X:356:VAL:CG2	1:e:438:ASN:HB2	2.46	0.46
1:Y:382:THR:HG22	1:Y:383:LEU:N	2.31	0.46
1:Z:438:ASN:HB2	1:4:356:VAL:CG2	2.46	0.46
1:a:258:TYR:OH	1:a:399:GLU:OE1	2.23	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:b:406:LEU:HD21	1:b:412:PHE:HB2	1.97	0.46
1:b:446:TYR:CE1	1:b:467:GLN:HG3	2.51	0.46
1:c:382:THR:HG22	1:c:383:LEU:N	2.31	0.46
1:d:321:ILE:HD13	1:d:343:ILE:HD11	1.97	0.46
1:d:382:THR:HG22	1:d:383:LEU:N	2.31	0.46
1:e:692:GLU:HG3	1:e:734:LEU:HD13	1.96	0.46
1:f:382:THR:HG22	1:f:383:LEU:N	2.31	0.46
1:f:438:ASN:HB2	1:h:356:VAL:CG2	2.46	0.46
1:h:321:ILE:HD13	1:h:343:ILE:HD11	1.97	0.46
1:h:323:VAL:HG11	1:h:675:GLN:HE21	1.80	0.46
1:j:251:PRO:HB3	1:x:660:PRO:HG2	1.97	0.46
1:k:321:ILE:HD13	1:k:343:ILE:HD11	1.97	0.46
1:o:446:TYR:CE1	1:o:467:GLN:HG3	2.51	0.46
1:p:382:THR:HG22	1:p:383:LEU:N	2.31	0.46
1:p:660:PRO:HG2	1:6:251:PRO:HB3	1.97	0.46
1:q:438:ASN:HB2	1:r:356:VAL:CG2	2.46	0.46
1:r:382:THR:HG22	1:r:383:LEU:N	2.31	0.46
1:t:428:ALA:O	1:t:735:THR:HA	2.15	0.46
1:w:692:GLU:HG3	1:w:734:LEU:HD13	1.96	0.46
1:x:382:THR:HG22	1:x:383:LEU:H	1.80	0.46
1:y:428:ALA:O	1:y:735:THR:HA	2.15	0.46
1:y:446:TYR:CE1	1:y:467:GLN:HG3	2.51	0.46
1:2:382:THR:HG22	1:2:383:LEU:N	2.31	0.46
1:2:428:ALA:O	1:2:735:THR:HA	2.15	0.46
1:3:321:ILE:HD13	1:3:343:ILE:HD11	1.97	0.46
1:4:321:ILE:HD13	1:4:343:ILE:HD11	1.97	0.46
1:4:446:TYR:CE1	1:4:467:GLN:HG3	2.51	0.46
1:5:438:ASN:HB2	1:6:356:VAL:CG2	2.46	0.46
1:7:226:SER:HB3	1:7:411:ASN:HB3	1.97	0.46
1:7:382:THR:HG22	1:7:383:LEU:N	2.31	0.46
1:A:446:TYR:CE1	1:A:467:GLN:HG3	2.51	0.46
1:B:382:THR:HG22	1:B:383:LEU:H	1.80	0.46
1:C:446:TYR:CE1	1:C:467:GLN:HG3	2.51	0.46
1:E:382:THR:HG22	1:E:383:LEU:N	2.31	0.46
1:F:406:LEU:HD21	1:F:412:PHE:HB2	1.96	0.46
1:G:382:THR:HG22	1:G:383:LEU:N	2.31	0.46
1:I:321:ILE:HD13	1:I:343:ILE:HD11	1.97	0.46
1:I:446:TYR:CE1	1:I:467:GLN:HG3	2.51	0.46
1:J:382:THR:HG22	1:J:383:LEU:H	1.80	0.46
1:L:428:ALA:O	1:L:735:THR:HA	2.15	0.46
1:L:446:TYR:CE1	1:L:467:GLN:HG3	2.51	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:438:ASN:HB2	1:P:356:VAL:CG2	2.46	0.46
1:Q:382:THR:HG22	1:Q:383:LEU:N	2.31	0.46
1:Q:406:LEU:HD21	1:Q:412:PHE:HB2	1.96	0.46
1:U:483:GLY:HA3	1:U:609:TRP:HB3	1.97	0.46
1:Z:382:THR:HG22	1:Z:383:LEU:H	1.80	0.46
1:Z:382:THR:HG22	1:Z:383:LEU:N	2.31	0.46
1:a:428:ALA:O	1:a:735:THR:HA	2.15	0.46
1:a:438:ASN:HB2	1:8:356:VAL:CG2	2.46	0.46
1:c:321:ILE:HD13	1:c:343:ILE:HD11	1.97	0.46
1:c:483:GLY:HA3	1:c:609:TRP:HB3	1.97	0.46
1:d:428:ALA:O	1:d:735:THR:HA	2.15	0.46
1:e:321:ILE:HD13	1:e:343:ILE:HD11	1.97	0.46
1:k:446:TYR:CE1	1:k:467:GLN:HG3	2.51	0.46
1:m:323:VAL:HG11	1:m:675:GLN:HE21	1.80	0.46
1:n:446:TYR:CE1	1:n:467:GLN:HG3	2.51	0.46
1:o:321:ILE:HD13	1:o:343:ILE:HD11	1.97	0.46
1:s:323:VAL:HG11	1:s:675:GLN:HE21	1.80	0.46
1:s:428:ALA:O	1:s:735:THR:HA	2.15	0.46
1:u:226:SER:HB3	1:u:411:ASN:HB3	1.97	0.46
1:v:483:GLY:HA3	1:v:609:TRP:HB3	1.97	0.46
1:z:356:VAL:CG2	1:2:438:ASN:HB2	2.46	0.46
1:z:406:LEU:HD21	1:z:412:PHE:HB2	1.96	0.46
1:5:321:ILE:HD13	1:5:343:ILE:HD11	1.97	0.46
1:5:356:VAL:CG2	1:7:438:ASN:HB2	2.46	0.46
1:5:382:THR:HG22	1:5:383:LEU:N	2.31	0.46
1:6:406:LEU:HD21	1:6:412:PHE:HB2	1.96	0.46
1:8:382:THR:HG21	1:8:394:SER:N	2.28	0.46
1:8:446:TYR:CE1	1:8:467:GLN:HG3	2.51	0.46
1:C:428:ALA:O	1:C:735:THR:HA	2.15	0.46
1:E:446:TYR:CE1	1:E:467:GLN:HG3	2.51	0.46
1:F:251:PRO:HB3	1:G:660:PRO:HG2	1.97	0.46
1:H:446:TYR:CE1	1:H:467:GLN:HG3	2.51	0.46
1:J:438:ASN:HB2	1:L:356:VAL:CG2	2.46	0.46
1:K:356:VAL:CG2	1:8:438:ASN:HB2	2.46	0.46
1:K:359:SER:O	1:8:443:GLN:NE2	2.48	0.46
1:O:428:ALA:O	1:O:735:THR:HA	2.15	0.46
1:Q:226:SER:HB3	1:Q:411:ASN:HB3	1.97	0.46
1:Q:321:ILE:HD13	1:Q:343:ILE:HD11	1.97	0.46
1:U:226:SER:HB3	1:U:411:ASN:HB3	1.97	0.46
1:V:321:ILE:HD13	1:V:343:ILE:HD11	1.97	0.46
1:W:321:ILE:HD13	1:W:343:ILE:HD11	1.97	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:W:428:ALA:O	1:W:735:THR:HA	2.15	0.46
1:W:438:ASN:HB2	1:Y:356:VAL:CG2	2.46	0.46
1:W:443:GLN:NE2	1:Y:359:SER:O	2.48	0.46
1:X:251:PRO:HB3	1:Y:660:PRO:HG2	1.97	0.46
1:Z:446:TYR:CE1	1:Z:467:GLN:HG3	2.51	0.46
1:Z:660:PRO:HG2	1:a:251:PRO:HB3	1.97	0.46
1:a:382:THR:HG22	1:a:383:LEU:H	1.80	0.46
1:c:356:VAL:CG2	1:p:438:ASN:HB2	2.46	0.46
1:c:446:TYR:CE1	1:c:467:GLN:HG3	2.51	0.46
1:d:446:TYR:CE1	1:d:467:GLN:HG3	2.51	0.46
1:e:382:THR:HG22	1:e:383:LEU:N	2.31	0.46
1:h:446:TYR:CE1	1:h:467:GLN:HG3	2.51	0.46
1:i:356:VAL:CG2	1:k:438:ASN:HB2	2.46	0.46
1:j:382:THR:HG22	1:j:383:LEU:N	2.31	0.46
1:j:660:PRO:HG2	1:l:251:PRO:HB3	1.97	0.46
1:k:382:THR:HG22	1:k:383:LEU:N	2.31	0.46
1:l:406:LEU:HD21	1:l:412:PHE:HB2	1.96	0.46
1:m:382:THR:HG22	1:m:383:LEU:H	1.80	0.46
1:m:382:THR:HG22	1:m:383:LEU:N	2.31	0.46
1:m:446:TYR:CE1	1:m:467:GLN:HG3	2.51	0.46
1:p:251:PRO:HB3	1:q:660:PRO:HG2	1.97	0.46
1:q:321:ILE:HD13	1:q:343:ILE:HD11	1.97	0.46
1:q:692:GLU:HG3	1:q:734:LEU:HD13	1.96	0.46
1:r:446:TYR:CE1	1:r:467:GLN:HG3	2.51	0.46
1:u:660:PRO:HG2	1:5:251:PRO:HB3	1.97	0.46
1:w:323:VAL:HG11	1:w:675:GLN:HE21	1.80	0.46
1:w:382:THR:HG22	1:w:383:LEU:N	2.31	0.46
1:2:446:TYR:CE1	1:2:467:GLN:HG3	2.51	0.46
1:4:323:VAL:HG11	1:4:675:GLN:HE21	1.80	0.46
1:5:406:LEU:HD21	1:5:412:PHE:HB2	1.96	0.46
1:6:438:ASN:HB2	1:7:356:VAL:CG2	2.46	0.46
1:6:483:GLY:HA3	1:6:609:TRP:HB3	1.97	0.46
1:7:323:VAL:HG11	1:7:675:GLN:HE21	1.80	0.46
1:7:446:TYR:CE1	1:7:467:GLN:HG3	2.51	0.46
1:C:356:VAL:CG2	1:M:438:ASN:HB2	2.46	0.46
1:D:359:SER:O	1:P:443:GLN:NE2	2.48	0.46
1:D:382:THR:HG22	1:D:383:LEU:N	2.31	0.46
1:D:446:TYR:CE1	1:D:467:GLN:HG3	2.51	0.46
1:E:323:VAL:HG11	1:E:675:GLN:HE21	1.80	0.46
1:E:356:VAL:CG2	1:F:438:ASN:HB2	2.46	0.46
1:E:382:THR:HG22	1:E:383:LEU:H	1.80	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:428:ALA:O	1:E:735:THR:HA	2.15	0.46
1:K:382:THR:HG22	1:K:383:LEU:N	2.31	0.46
1:L:251:PRO:HB3	1:b:660:PRO:HG2	1.97	0.46
1:L:321:ILE:HD13	1:L:343:ILE:HD11	1.97	0.46
1:N:251:PRO:HB3	1:m:660:PRO:HG2	1.97	0.46
1:N:321:ILE:HD13	1:N:343:ILE:HD11	1.97	0.46
1:N:382:THR:HG22	1:N:383:LEU:H	1.80	0.46
1:N:428:ALA:O	1:N:735:THR:HA	2.15	0.46
1:O:356:VAL:CG2	1:n:438:ASN:HB2	2.46	0.46
1:P:428:ALA:O	1:P:735:THR:HA	2.15	0.46
1:Q:382:THR:HG22	1:Q:383:LEU:H	1.80	0.46
1:Q:446:TYR:CE1	1:Q:467:GLN:HG3	2.51	0.46
1:V:356:VAL:CG2	1:X:438:ASN:HB2	2.46	0.46
1:W:692:GLU:HG3	1:W:734:LEU:HD13	1.96	0.46
1:Y:446:TYR:CE1	1:Y:467:GLN:HG3	2.51	0.46
1:Z:323:VAL:HG11	1:Z:675:GLN:HE21	1.80	0.46
1:a:321:ILE:HD13	1:a:343:ILE:HD11	1.97	0.46
1:f:660:PRO:HG2	1:z:251:PRO:HB3	1.97	0.46
1:j:428:ALA:O	1:j:735:THR:HA	2.15	0.46
1:l:446:TYR:CE1	1:l:467:GLN:HG3	2.51	0.46
1:m:438:ASN:HB2	1:n:356:VAL:CG2	2.46	0.46
1:n:323:VAL:HG11	1:n:675:GLN:HE21	1.80	0.46
1:n:382:THR:HG22	1:n:383:LEU:H	1.80	0.46
1:p:428:ALA:O	1:p:735:THR:HA	2.15	0.46
1:s:446:TYR:CE1	1:s:467:GLN:HG3	2.51	0.46
1:v:226:SER:HB3	1:v:411:ASN:HB3	1.97	0.46
1:w:483:GLY:HA3	1:w:609:TRP:HB3	1.97	0.46
1:y:321:ILE:HD13	1:y:343:ILE:HD11	1.97	0.46
1:3:356:VAL:CG2	1:4:438:ASN:HB2	2.46	0.46
1:5:382:THR:HG22	1:5:383:LEU:H	1.80	0.46
1:5:446:TYR:CE1	1:5:467:GLN:HG3	2.51	0.46
1:A:323:VAL:HG11	1:A:675:GLN:HE21	1.80	0.46
1:C:321:ILE:HD13	1:C:343:ILE:HD11	1.97	0.46
1:F:483:GLY:HA3	1:F:609:TRP:HB3	1.97	0.46
1:F:660:PRO:HG2	1:R:251:PRO:HB3	1.97	0.46
1:G:428:ALA:O	1:G:735:THR:HA	2.15	0.46
1:G:438:ASN:HB2	1:I:356:VAL:CG2	2.46	0.46
1:K:446:TYR:CE1	1:K:467:GLN:HG3	2.51	0.46
1:M:382:THR:HG21	1:M:394:SER:N	2.28	0.46
1:T:321:ILE:HD13	1:T:343:ILE:HD11	1.97	0.46
1:T:446:TYR:CE1	1:T:467:GLN:HG3	2.51	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:U:382:THR:HG22	1:U:383:LEU:N	2.31	0.46
1:X:406:LEU:HD21	1:X:412:PHE:HB2	1.97	0.46
1:b:382:THR:HG22	1:b:383:LEU:H	1.81	0.46
1:c:382:THR:HG21	1:c:394:SER:N	2.28	0.46
1:c:660:PRO:HG2	1:s:251:PRO:HB3	1.97	0.46
1:d:438:ASN:HB2	1:l:356:VAL:CG2	2.46	0.46
1:f:428:ALA:O	1:f:735:THR:HA	2.15	0.46
1:g:382:THR:HG22	1:g:383:LEU:N	2.31	0.46
1:h:382:THR:HG22	1:h:383:LEU:N	2.31	0.46
1:h:428:ALA:O	1:h:735:THR:HA	2.15	0.46
1:l:382:THR:HG22	1:l:383:LEU:N	2.31	0.46
1:n:382:THR:HG22	1:n:383:LEU:N	2.31	0.46
1:o:382:THR:HG21	1:o:394:SER:N	2.28	0.46
1:q:428:ALA:O	1:q:735:THR:HA	2.15	0.46
1:t:382:THR:HG22	1:t:383:LEU:H	1.80	0.46
1:v:382:THR:HG22	1:v:383:LEU:N	2.31	0.46
1:z:438:ASN:HB2	1:1:356:VAL:CG2	2.46	0.46
1:z:446:TYR:CE1	1:z:467:GLN:HG3	2.51	0.46
1:1:321:ILE:HD13	1:1:343:ILE:HD11	1.97	0.46
1:3:428:ALA:O	1:3:735:THR:HA	2.15	0.46
1:4:382:THR:HG22	1:4:383:LEU:N	2.31	0.46
1:4:483:GLY:HA3	1:4:609:TRP:HB3	1.97	0.46
1:5:382:THR:HG21	1:5:394:SER:N	2.28	0.46
1:5:443:GLN:NE2	1:6:359:SER:O	2.47	0.46
1:7:428:ALA:O	1:7:735:THR:HA	2.15	0.46
1:A:382:THR:HG21	1:A:394:SER:N	2.28	0.46
1:C:443:GLN:NE2	1:b:359:SER:O	2.48	0.46
1:E:438:ASN:HB2	1:Q:356:VAL:CG2	2.46	0.46
1:F:356:VAL:CG2	1:Q:438:ASN:HB2	2.46	0.46
1:F:359:SER:O	1:Q:443:GLN:NE2	2.48	0.46
1:F:382:THR:HG22	1:F:383:LEU:N	2.31	0.46
1:F:446:TYR:CE1	1:F:467:GLN:HG3	2.51	0.46
1:G:446:TYR:CE1	1:G:467:GLN:HG3	2.51	0.46
1:N:382:THR:HG22	1:N:383:LEU:N	2.31	0.46
1:O:382:THR:HG22	1:O:383:LEU:H	1.80	0.46
1:R:382:THR:HG22	1:R:383:LEU:H	1.80	0.46
1:R:382:THR:HG22	1:R:383:LEU:N	2.31	0.46
1:R:446:TYR:CE1	1:R:467:GLN:HG3	2.51	0.46
1:T:226:SER:HB3	1:T:411:ASN:HB3	1.97	0.46
1:T:323:VAL:HG11	1:T:675:GLN:HE21	1.80	0.46
1:T:382:THR:HG22	1:T:383:LEU:H	1.80	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:T:382:THR:HG22	1:T:383:LEU:N	2.31	0.46
1:T:660:PRO:HG2	1:i:251:PRO:HB3	1.97	0.46
1:d:323:VAL:HG11	1:d:675:GLN:HE21	1.80	0.46
1:e:483:GLY:HA3	1:e:609:TRP:HB3	1.97	0.46
1:h:251:PRO:HB3	1:i:660:PRO:HG2	1.97	0.46
1:i:359:SER:O	1:k:443:GLN:NE2	2.47	0.46
1:i:382:THR:HG22	1:i:383:LEU:N	2.31	0.46
1:j:438:ASN:HB2	1:k:356:VAL:CG2	2.46	0.46
1:n:483:GLY:HA3	1:n:609:TRP:HB3	1.97	0.46
1:o:438:ASN:HB2	1:p:356:VAL:CG2	2.46	0.46
1:t:251:PRO:HB3	1:6:660:PRO:HG2	1.97	0.46
1:t:382:THR:HG22	1:t:383:LEU:N	2.31	0.46
1:v:660:PRO:HG2	1:1:251:PRO:HB3	1.97	0.46
1:w:438:ASN:HB2	1:x:356:VAL:CG2	2.46	0.46
1:1:226:SER:HB3	1:1:411:ASN:HB3	1.97	0.46
1:2:323:VAL:HG11	1:2:675:GLN:HE21	1.80	0.46
1:3:323:VAL:HG11	1:3:675:GLN:HE21	1.80	0.46
1:5:483:GLY:HA3	1:5:609:TRP:HB3	1.97	0.46
1:6:443:GLN:NE2	1:7:359:SER:O	2.48	0.46
1:6:446:TYR:CE1	1:6:467:GLN:HG3	2.51	0.46
1:7:382:THR:HG22	1:7:383:LEU:H	1.80	0.46
1:C:382:THR:HG22	1:C:383:LEU:N	2.31	0.45
1:H:251:PRO:HB3	1:I:660:PRO:HG2	1.97	0.45
1:I:226:SER:HB3	1:I:411:ASN:HB3	1.97	0.45
1:I:382:THR:HG21	1:I:394:SER:N	2.28	0.45
1:L:382:THR:HG22	1:L:383:LEU:N	2.31	0.45
1:N:446:TYR:CE1	1:N:467:GLN:HG3	2.51	0.45
1:Q:382:THR:HG21	1:Q:394:SER:N	2.28	0.45
1:R:226:SER:HB3	1:R:411:ASN:HB3	1.97	0.45
1:T:251:PRO:HB3	1:U:660:PRO:HG2	1.97	0.45
1:T:356:VAL:CG2	1:l:438:ASN:HB2	2.46	0.45
1:U:382:THR:HG22	1:U:383:LEU:H	1.80	0.45
1:X:359:SER:O	1:e:443:GLN:NE2	2.48	0.45
1:X:660:PRO:HG2	1:f:251:PRO:HB3	1.97	0.45
1:a:382:THR:HG22	1:a:383:LEU:N	2.31	0.45
1:d:382:THR:HG22	1:d:383:LEU:H	1.80	0.45
1:f:443:GLN:NE2	1:h:359:SER:O	2.48	0.45
1:o:323:VAL:HG11	1:o:675:GLN:HE21	1.80	0.45
1:o:382:THR:HG22	1:o:383:LEU:N	2.31	0.45
1:p:382:THR:HG22	1:p:383:LEU:H	1.80	0.45
1:p:446:TYR:CE1	1:p:467:GLN:HG3	2.51	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:s:226:SER:HB3	1:s:411:ASN:HB3	1.97	0.45
1:t:446:TYR:CE1	1:t:467:GLN:HG3	2.51	0.45
1:u:251:PRO:HB3	1:2:660:PRO:HG2	1.97	0.45
1:v:382:THR:HG22	1:v:383:LEU:H	1.80	0.45
1:x:406:LEU:HD21	1:x:412:PHE:HB2	1.97	0.45
1:z:382:THR:HG22	1:z:383:LEU:N	2.31	0.45
1:1:323:VAL:HG11	1:1:675:GLN:HE21	1.80	0.45
1:1:382:THR:HG22	1:1:383:LEU:N	2.31	0.45
1:1:446:TYR:CE1	1:1:467:GLN:HG3	2.51	0.45
1:2:382:THR:HG22	1:2:383:LEU:H	1.80	0.45
1:5:428:ALA:O	1:5:735:THR:HA	2.15	0.45
1:8:428:ALA:O	1:8:735:THR:HA	2.15	0.45
1:A:382:THR:HG22	1:A:383:LEU:N	2.31	0.45
1:B:359:SER:O	1:L:443:GLN:NE2	2.48	0.45
1:D:356:VAL:CG2	1:P:438:ASN:HB2	2.47	0.45
1:E:359:SER:O	1:F:443:GLN:NE2	2.48	0.45
1:G:382:THR:HG22	1:G:383:LEU:H	1.80	0.45
1:H:382:THR:HG22	1:H:383:LEU:N	2.31	0.45
1:K:438:ASN:HB2	1:a:356:VAL:CG2	2.46	0.45
1:O:323:VAL:HG11	1:O:675:GLN:HE21	1.80	0.45
1:Q:483:GLY:HA3	1:Q:609:TRP:HB3	1.97	0.45
1:V:438:ASN:HB2	1:e:356:VAL:CG2	2.46	0.45
1:a:446:TYR:CE1	1:a:467:GLN:HG3	2.51	0.45
1:c:226:SER:HB3	1:c:411:ASN:HB3	1.97	0.45
1:d:714:ASP:HB3	1:d:726:PRO:HG2	1.99	0.45
1:e:714:ASP:HB3	1:e:726:PRO:HG2	1.99	0.45
1:f:382:THR:HG22	1:f:383:LEU:H	1.80	0.45
1:g:356:VAL:CG2	1:h:438:ASN:HB2	2.46	0.45
1:k:428:ALA:O	1:k:735:THR:HA	2.15	0.45
1:r:660:PRO:HG2	1:x:251:PRO:HB3	1.97	0.45
1:s:382:THR:HG22	1:s:383:LEU:N	2.31	0.45
1:u:438:ASN:HB2	1:v:356:VAL:CG2	2.46	0.45
1:w:382:THR:HG22	1:w:383:LEU:H	1.80	0.45
1:x:483:GLY:HA3	1:x:609:TRP:HB3	1.97	0.45
1:z:483:GLY:HA3	1:z:609:TRP:HB3	1.97	0.45
1:1:382:THR:HG22	1:1:383:LEU:H	1.80	0.45
1:3:382:THR:HG22	1:3:383:LEU:H	1.80	0.45
1:4:382:THR:HG22	1:4:383:LEU:H	1.80	0.45
1:5:323:VAL:HG11	1:5:675:GLN:HE21	1.80	0.45
1:6:382:THR:HG22	1:6:383:LEU:N	2.31	0.45
1:7:714:ASP:HB3	1:7:726:PRO:HG2	1.99	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:438:ASN:HB2	1:G:356:VAL:CG2	2.46	0.45
1:E:714:ASP:HB3	1:E:726:PRO:HG2	1.99	0.45
1:H:226:SER:HB3	1:H:411:ASN:HB3	1.97	0.45
1:J:226:SER:HB2	1:J:320:ASN:H	1.82	0.45
1:L:382:THR:HG22	1:L:383:LEU:H	1.80	0.45
1:N:226:SER:HB3	1:N:411:ASN:HB3	1.97	0.45
1:O:382:THR:HG22	1:O:383:LEU:N	2.31	0.45
1:S:446:TYR:CE1	1:S:467:GLN:HG3	2.51	0.45
1:U:226:SER:HB2	1:U:320:ASN:H	1.82	0.45
1:X:226:SER:HB2	1:X:320:ASN:H	1.82	0.45
1:e:382:THR:HG22	1:e:383:LEU:H	1.80	0.45
1:e:446:TYR:CE1	1:e:467:GLN:HG3	2.51	0.45
1:g:251:PRO:HB3	1:1:660:PRO:HG2	1.97	0.45
1:k:660:PRO:HG2	1:w:251:PRO:HB3	1.97	0.45
1:l:483:GLY:HA3	1:l:609:TRP:HB3	1.97	0.45
1:t:226:SER:HB3	1:t:411:ASN:HB3	1.97	0.45
1:w:446:TYR:CE1	1:w:467:GLN:HG3	2.51	0.45
1:2:714:ASP:HB3	1:2:726:PRO:HG2	1.99	0.45
1:6:226:SER:HB2	1:6:320:ASN:H	1.82	0.45
1:6:226:SER:HB3	1:6:411:ASN:HB3	1.97	0.45
1:C:382:THR:HG22	1:C:383:LEU:H	1.80	0.45
1:F:226:SER:HB2	1:F:320:ASN:H	1.82	0.45
1:F:226:SER:HB3	1:F:411:ASN:HB3	1.97	0.45
1:H:321:ILE:HD13	1:H:343:ILE:HD11	1.97	0.45
1:J:226:SER:HB3	1:J:411:ASN:HB3	1.97	0.45
1:J:382:THR:HG22	1:J:383:LEU:N	2.31	0.45
1:J:446:TYR:CE1	1:J:467:GLN:HG3	2.51	0.45
1:M:226:SER:HB2	1:M:320:ASN:H	1.82	0.45
1:M:226:SER:HB3	1:M:411:ASN:HB3	1.97	0.45
1:M:446:TYR:CE1	1:M:467:GLN:HG3	2.51	0.45
1:O:438:ASN:HB2	1:m:356:VAL:CG2	2.46	0.45
1:P:226:SER:HB3	1:P:411:ASN:HB3	1.97	0.45
1:Q:323:VAL:HG11	1:Q:675:GLN:HE21	1.80	0.45
1:T:438:ASN:HB2	1:d:356:VAL:CG2	2.46	0.45
1:V:714:ASP:HB3	1:V:726:PRO:HG2	1.99	0.45
1:W:483:GLY:HA3	1:W:609:TRP:HB3	1.97	0.45
1:X:382:THR:HG22	1:X:383:LEU:N	2.31	0.45
1:X:483:GLY:HA3	1:X:609:TRP:HB3	1.97	0.45
1:c:443:GLN:NE2	1:o:359:SER:O	2.48	0.45
1:f:356:VAL:CG2	1:g:438:ASN:HB2	2.46	0.45
1:f:446:TYR:CE1	1:f:467:GLN:HG3	2.51	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:g:660:PRO:HG2	1:k:251:PRO:HB3	1.97	0.45
1:i:438:ASN:HB2	1:j:356:VAL:CG2	2.46	0.45
1:j:382:THR:HG22	1:j:383:LEU:H	1.80	0.45
1:j:443:GLN:NE2	1:k:359:SER:O	2.48	0.45
1:j:446:TYR:CE1	1:j:467:GLN:HG3	2.51	0.45
1:t:450:ARG:HG2	1:t:452:GLN:H	1.82	0.45
1:u:446:TYR:CE1	1:u:467:GLN:HG3	2.51	0.45
1:v:226:SER:HB2	1:v:320:ASN:H	1.82	0.45
1:w:714:ASP:HB3	1:w:726:PRO:HG2	1.99	0.45
1:x:226:SER:HB2	1:x:320:ASN:H	1.82	0.45
1:x:382:THR:HG22	1:x:383:LEU:N	2.31	0.45
1:x:714:ASP:HB3	1:x:726:PRO:HG2	1.99	0.45
1:3:382:THR:HG22	1:3:383:LEU:N	2.31	0.45
1:3:446:TYR:CE1	1:3:467:GLN:HG3	2.51	0.45
1:A:483:GLY:HA3	1:A:609:TRP:HB3	1.97	0.45
1:C:226:SER:HB2	1:C:320:ASN:H	1.82	0.45
1:D:438:ASN:HB2	1:N:356:VAL:CG2	2.46	0.45
1:H:382:THR:HG22	1:H:383:LEU:H	1.81	0.45
1:H:438:ASN:HB2	1:W:356:VAL:CG2	2.46	0.45
1:M:382:THR:HG22	1:M:383:LEU:N	2.31	0.45
1:N:714:ASP:HB3	1:N:726:PRO:HG2	1.99	0.45
1:P:382:THR:HG22	1:P:383:LEU:N	2.31	0.45
1:Q:428:ALA:O	1:Q:735:THR:HA	2.15	0.45
1:R:450:ARG:HG2	1:R:452:GLN:H	1.82	0.45
1:W:226:SER:HB2	1:W:320:ASN:H	1.82	0.45
1:Z:356:VAL:CG2	1:3:438:ASN:HB2	2.46	0.45
1:b:382:THR:HG22	1:b:383:LEU:N	2.31	0.45
1:f:226:SER:HB2	1:f:320:ASN:H	1.82	0.45
1:g:359:SER:O	1:h:443:GLN:NE2	2.48	0.45
1:g:450:ARG:HG2	1:g:452:GLN:H	1.82	0.45
1:j:226:SER:HB2	1:j:320:ASN:H	1.82	0.45
1:k:450:ARG:HG2	1:k:452:GLN:H	1.82	0.45
1:m:483:GLY:HA3	1:m:609:TRP:HB3	1.97	0.45
1:q:226:SER:HB2	1:q:320:ASN:H	1.82	0.45
1:q:446:TYR:CE1	1:q:467:GLN:HG3	2.51	0.45
1:s:321:ILE:HD13	1:s:343:ILE:HD11	1.97	0.45
1:s:382:THR:HG22	1:s:383:LEU:H	1.80	0.45
1:s:450:ARG:HG2	1:s:452:GLN:H	1.82	0.45
1:u:450:ARG:HG2	1:u:452:GLN:H	1.82	0.45
1:w:226:SER:HB2	1:w:320:ASN:H	1.82	0.45
1:8:226:SER:HB3	1:8:411:ASN:HB3	1.97	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:8:450:ARG:HG2	1:8:452:GLN:H	1.82	0.45
1:A:356:VAL:CG2	1:I:438:ASN:HB2	2.46	0.45
1:A:443:GLN:NE2	1:G:359:SER:O	2.48	0.45
1:B:382:THR:HG22	1:B:383:LEU:N	2.31	0.45
1:D:226:SER:HB2	1:D:320:ASN:H	1.82	0.45
1:H:450:ARG:HG2	1:H:452:GLN:H	1.82	0.45
1:K:226:SER:HB2	1:K:320:ASN:H	1.82	0.45
1:O:446:TYR:CE1	1:O:467:GLN:HG3	2.51	0.45
1:P:450:ARG:HG2	1:P:452:GLN:H	1.82	0.45
1:S:450:ARG:HG2	1:S:452:GLN:H	1.82	0.45
1:W:446:TYR:CE1	1:W:467:GLN:HG3	2.51	0.45
1:X:714:ASP:HB3	1:X:726:PRO:HG2	1.99	0.45
1:Z:483:GLY:HA3	1:Z:609:TRP:HB3	1.97	0.45
1:a:226:SER:HB3	1:a:411:ASN:HB3	1.97	0.45
1:a:382:THR:HG21	1:a:394:SER:N	2.28	0.45
1:c:359:SER:O	1:p:443:GLN:NE2	2.48	0.45
1:c:438:ASN:HB2	1:o:356:VAL:CG2	2.46	0.45
1:c:714:ASP:HB3	1:c:726:PRO:HG2	1.99	0.45
1:d:450:ARG:HG2	1:d:452:GLN:H	1.82	0.45
1:e:226:SER:HB2	1:e:320:ASN:H	1.82	0.45
1:f:450:ARG:HG2	1:f:452:GLN:H	1.82	0.45
1:h:450:ARG:HG2	1:h:452:GLN:H	1.82	0.45
1:i:714:ASP:HB3	1:i:726:PRO:HG2	1.99	0.45
1:o:443:GLN:NE2	1:p:359:SER:O	2.48	0.45
1:o:483:GLY:HA3	1:o:609:TRP:HB3	1.97	0.45
1:q:483:GLY:HA3	1:q:609:TRP:HB3	1.97	0.45
1:t:356:VAL:CG2	1:v:438:ASN:HB2	2.46	0.45
1:w:356:VAL:CG2	1:y:438:ASN:HB2	2.46	0.45
1:y:450:ARG:HG2	1:y:452:GLN:H	1.82	0.45
1:y:714:ASP:HB3	1:y:726:PRO:HG2	1.99	0.45
1:1:438:ASN:HB2	1:2:356:VAL:CG2	2.46	0.45
1:2:450:ARG:HG2	1:2:452:GLN:H	1.82	0.45
1:5:359:SER:O	1:7:443:GLN:NE2	2.48	0.45
1:7:382:THR:HG21	1:7:394:SER:N	2.28	0.45
1:8:226:SER:HB2	1:8:320:ASN:H	1.82	0.45
1:8:382:THR:HG22	1:8:383:LEU:N	2.31	0.45
1:A:450:ARG:HG2	1:A:452:GLN:H	1.82	0.45
1:G:714:ASP:HB3	1:G:726:PRO:HG2	1.99	0.45
1:I:714:ASP:HB3	1:I:726:PRO:HG2	1.99	0.45
1:L:226:SER:HB2	1:L:320:ASN:H	1.82	0.45
1:L:714:ASP:HB3	1:L:726:PRO:HG2	1.99	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:483:GLY:HA3	1:N:609:TRP:HB3	1.97	0.45
1:O:450:ARG:HG2	1:O:452:GLN:H	1.82	0.45
1:P:226:SER:HB2	1:P:320:ASN:H	1.82	0.45
1:R:356:VAL:CG2	1:U:438:ASN:HB2	2.46	0.45
1:S:438:ASN:HB2	1:U:356:VAL:CG2	2.46	0.45
1:S:483:GLY:HA3	1:S:609:TRP:HB3	1.97	0.45
1:V:450:ARG:HG2	1:V:452:GLN:H	1.82	0.45
1:W:382:THR:HG22	1:W:383:LEU:N	2.31	0.45
1:Y:450:ARG:HG2	1:Y:452:GLN:H	1.82	0.45
1:Z:714:ASP:HB3	1:Z:726:PRO:HG2	1.99	0.45
1:a:714:ASP:HB3	1:a:726:PRO:HG2	1.99	0.45
1:g:714:ASP:HB3	1:g:726:PRO:HG2	1.99	0.45
1:i:450:ARG:HG2	1:i:452:GLN:H	1.82	0.45
1:j:450:ARG:HG2	1:j:452:GLN:H	1.82	0.45
1:l:714:ASP:HB3	1:l:726:PRO:HG2	1.99	0.45
1:m:714:ASP:HB3	1:m:726:PRO:HG2	1.99	0.45
1:u:483:GLY:HA3	1:u:609:TRP:HB3	1.97	0.45
1:w:382:THR:HG21	1:w:394:SER:N	2.28	0.45
1:z:714:ASP:HB3	1:z:726:PRO:HG2	1.99	0.45
1:A:359:SER:O	1:I:443:GLN:NE2	2.48	0.45
1:C:714:ASP:HB3	1:C:726:PRO:HG2	1.99	0.45
1:G:443:GLN:NE2	1:I:359:SER:O	2.48	0.45
1:I:226:SER:HB2	1:I:320:ASN:H	1.82	0.45
1:M:714:ASP:HB3	1:M:726:PRO:HG2	1.99	0.45
1:Q:450:ARG:HG2	1:Q:452:GLN:H	1.82	0.45
1:U:251:PRO:HB3	1:e:660:PRO:HG2	1.97	0.45
1:Y:226:SER:HB2	1:Y:320:ASN:H	1.82	0.45
1:a:483:GLY:HA3	1:a:609:TRP:HB3	1.97	0.45
1:g:446:TYR:CE1	1:g:467:GLN:HG3	2.51	0.45
1:i:446:TYR:CE1	1:i:467:GLN:HG3	2.51	0.45
1:o:450:ARG:HG2	1:o:452:GLN:H	1.82	0.45
1:p:714:ASP:HB3	1:p:726:PRO:HG2	1.99	0.45
1:q:356:VAL:CG2	1:s:438:ASN:HB2	2.46	0.45
1:q:382:THR:HG22	1:q:383:LEU:N	2.31	0.45
1:r:438:ASN:HB2	1:s:356:VAL:CG2	2.46	0.45
1:v:251:PRO:HB3	1:w:660:PRO:HG2	1.97	0.45
1:v:446:TYR:CE1	1:v:467:GLN:HG3	2.51	0.45
1:w:443:GLN:NE2	1:x:359:SER:O	2.48	0.45
1:w:450:ARG:HG2	1:w:452:GLN:H	1.82	0.45
1:x:446:TYR:CE1	1:x:467:GLN:HG3	2.51	0.45
1:3:450:ARG:HG2	1:3:452:GLN:H	1.82	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:5:226:SER:HB2	1:5:320:ASN:H	1.82	0.45
1:5:450:ARG:HG2	1:5:452:GLN:H	1.82	0.45
1:7:450:ARG:HG2	1:7:452:GLN:H	1.82	0.45
1:C:226:SER:HB3	1:C:411:ASN:HB3	1.97	0.45
1:C:450:ARG:HG2	1:C:452:GLN:H	1.82	0.45
1:E:443:GLN:NE2	1:Q:359:SER:O	2.48	0.45
1:L:450:ARG:HG2	1:L:452:GLN:H	1.82	0.45
1:N:382:THR:HG21	1:N:394:SER:N	2.28	0.45
1:Q:401:PHE:N	1:Q:401:PHE:CD1	2.85	0.45
1:T:450:ARG:HG2	1:T:452:GLN:H	1.82	0.45
1:U:446:TYR:CE1	1:U:467:GLN:HG3	2.51	0.45
1:c:226:SER:HB2	1:c:320:ASN:H	1.82	0.45
1:e:382:THR:HG21	1:e:394:SER:N	2.28	0.45
1:e:450:ARG:HG2	1:e:452:GLN:H	1.82	0.45
1:f:359:SER:O	1:g:443:GLN:NE2	2.48	0.45
1:o:226:SER:HB2	1:o:320:ASN:H	1.82	0.45
1:r:450:ARG:HG2	1:r:452:GLN:H	1.82	0.45
1:s:226:SER:HB2	1:s:320:ASN:H	1.82	0.45
1:t:438:ASN:HB2	1:u:356:VAL:CG2	2.46	0.45
1:1:450:ARG:HG2	1:1:452:GLN:H	1.82	0.45
1:B:438:ASN:HB2	1:J:356:VAL:CG2	2.46	0.45
1:D:450:ARG:HG2	1:D:452:GLN:H	1.82	0.45
1:E:382:THR:HG21	1:E:394:SER:N	2.28	0.45
1:H:226:SER:HB2	1:H:320:ASN:H	1.82	0.45
1:H:356:VAL:CG2	1:Y:438:ASN:HB2	2.46	0.45
1:J:714:ASP:HB3	1:J:726:PRO:HG2	1.99	0.45
1:K:450:ARG:HG2	1:K:452:GLN:H	1.82	0.45
1:M:356:VAL:CG2	1:b:438:ASN:HB2	2.46	0.45
1:Q:226:SER:HB2	1:Q:320:ASN:H	1.82	0.45
1:R:438:ASN:HB2	1:S:356:VAL:CG2	2.46	0.45
1:T:443:GLN:NE2	1:d:359:SER:O	2.48	0.45
1:U:714:ASP:HB3	1:U:726:PRO:HG2	1.99	0.45
1:W:450:ARG:HG2	1:W:452:GLN:H	1.82	0.45
1:X:446:TYR:CE1	1:X:467:GLN:HG3	2.51	0.45
1:Y:714:ASP:HB3	1:Y:726:PRO:HG2	1.99	0.45
1:d:226:SER:HB2	1:d:320:ASN:H	1.82	0.45
1:h:401:PHE:N	1:h:401:PHE:CD1	2.85	0.45
1:k:401:PHE:N	1:k:401:PHE:CD1	2.85	0.45
1:m:382:THR:HG21	1:m:394:SER:N	2.28	0.45
1:r:714:ASP:HB3	1:r:726:PRO:HG2	1.99	0.45
1:1:443:GLN:NE2	1:2:359:SER:O	2.48	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:5:401:PHE:N	1:5:401:PHE:CD1	2.85	0.45
1:6:714:ASP:HB3	1:6:726:PRO:HG2	1.99	0.45
1:A:226:SER:HB2	1:A:320:ASN:H	1.82	0.44
1:B:226:SER:HB2	1:B:320:ASN:H	1.82	0.44
1:B:714:ASP:HB3	1:B:726:PRO:HG2	1.99	0.44
1:E:432:SER:HA	1:E:570:THR:HB	2.00	0.44
1:E:450:ARG:HG2	1:E:452:GLN:H	1.82	0.44
1:F:432:SER:HA	1:F:570:THR:HB	2.00	0.44
1:L:226:SER:HB3	1:L:411:ASN:HB3	1.97	0.44
1:N:226:SER:HB2	1:N:320:ASN:H	1.82	0.44
1:N:450:ARG:HG2	1:N:452:GLN:H	1.82	0.44
1:O:247:THR:HB	1:O:372:VAL:HG22	2.00	0.44
1:Q:714:ASP:HB3	1:Q:726:PRO:HG2	1.99	0.44
1:V:226:SER:HB2	1:V:320:ASN:H	1.82	0.44
1:W:714:ASP:HB3	1:W:726:PRO:HG2	1.99	0.44
1:a:226:SER:HB2	1:a:320:ASN:H	1.82	0.44
1:a:450:ARG:HG2	1:a:452:GLN:H	1.82	0.44
1:b:226:SER:HB2	1:b:320:ASN:H	1.82	0.44
1:b:714:ASP:HB3	1:b:726:PRO:HG2	1.99	0.44
1:h:226:SER:HB2	1:h:320:ASN:H	1.82	0.44
1:n:529:HIS:ND1	1:n:533:GLU:O	2.50	0.44
1:n:714:ASP:HB3	1:n:726:PRO:HG2	1.99	0.44
1:o:529:HIS:ND1	1:o:533:GLU:O	2.50	0.44
1:o:581:VAL:CG1	1:o:595:VAL:HB	2.48	0.44
1:q:450:ARG:HG2	1:q:452:GLN:H	1.82	0.44
1:q:581:VAL:CG1	1:q:595:VAL:HB	2.48	0.44
1:q:714:ASP:HB3	1:q:726:PRO:HG2	1.99	0.44
1:r:226:SER:HB2	1:r:320:ASN:H	1.82	0.44
1:t:443:GLN:NE2	1:u:359:SER:O	2.48	0.44
1:z:226:SER:HB2	1:z:320:ASN:H	1.82	0.44
1:z:529:HIS:ND1	1:z:533:GLU:O	2.51	0.44
1:8:529:HIS:ND1	1:8:533:GLU:O	2.51	0.44
1:A:529:HIS:ND1	1:A:533:GLU:O	2.51	0.44
1:A:581:VAL:CG1	1:A:595:VAL:HB	2.48	0.44
1:C:581:VAL:CG1	1:C:595:VAL:HB	2.48	0.44
1:G:529:HIS:ND1	1:G:533:GLU:O	2.51	0.44
1:J:529:HIS:ND1	1:J:533:GLU:O	2.51	0.44
1:J:581:VAL:CG1	1:J:595:VAL:HB	2.48	0.44
1:P:529:HIS:ND1	1:P:533:GLU:O	2.51	0.44
1:S:581:VAL:CG1	1:S:595:VAL:HB	2.48	0.44
1:V:382:THR:HG22	1:V:383:LEU:N	2.31	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:W:581:VAL:CG1	1:W:595:VAL:HB	2.48	0.44
1:X:529:HIS:ND1	1:X:533:GLU:O	2.51	0.44
1:b:382:THR:HG21	1:b:394:SER:N	2.28	0.44
1:c:529:HIS:ND1	1:c:533:GLU:O	2.51	0.44
1:d:247:THR:HB	1:d:372:VAL:HG22	2.00	0.44
1:d:382:THR:HG21	1:d:394:SER:N	2.28	0.44
1:e:401:PHE:N	1:e:401:PHE:CD1	2.85	0.44
1:f:432:SER:HA	1:f:570:THR:HB	2.00	0.44
1:l:226:SER:HB2	1:l:320:ASN:H	1.82	0.44
1:l:529:HIS:ND1	1:l:533:GLU:O	2.51	0.44
1:p:529:HIS:ND1	1:p:533:GLU:O	2.51	0.44
1:t:401:PHE:N	1:t:401:PHE:CD1	2.85	0.44
1:u:581:VAL:CG1	1:u:595:VAL:HB	2.48	0.44
1:v:714:ASP:HB3	1:v:726:PRO:HG2	1.99	0.44
1:w:401:PHE:N	1:w:401:PHE:CD1	2.85	0.44
1:x:382:THR:HG21	1:x:394:SER:N	2.28	0.44
1:x:432:SER:HA	1:x:570:THR:HB	1.99	0.44
1:y:226:SER:HB2	1:y:320:ASN:H	1.82	0.44
1:z:581:VAL:CG1	1:z:595:VAL:HB	2.48	0.44
1:1:226:SER:HB2	1:1:320:ASN:H	1.82	0.44
1:2:226:SER:HB2	1:2:320:ASN:H	1.82	0.44
1:2:382:THR:HG21	1:2:394:SER:N	2.28	0.44
1:3:247:THR:HB	1:3:372:VAL:HG22	2.00	0.44
1:4:529:HIS:ND1	1:4:533:GLU:O	2.51	0.44
1:4:714:ASP:HB3	1:4:726:PRO:HG2	1.99	0.44
1:6:450:ARG:HG2	1:6:452:GLN:H	1.82	0.44
1:7:432:SER:HA	1:7:570:THR:HB	2.00	0.44
1:A:714:ASP:HB3	1:A:726:PRO:HG2	1.99	0.44
1:B:529:HIS:ND1	1:B:533:GLU:O	2.51	0.44
1:E:247:THR:HB	1:E:372:VAL:HG22	2.00	0.44
1:G:226:SER:HB2	1:G:320:ASN:H	1.82	0.44
1:I:529:HIS:ND1	1:I:533:GLU:O	2.51	0.44
1:J:443:GLN:NE2	1:L:359:SER:O	2.48	0.44
1:M:450:ARG:HG2	1:M:452:GLN:H	1.82	0.44
1:M:529:HIS:ND1	1:M:533:GLU:O	2.51	0.44
1:R:359:SER:O	1:U:443:GLN:NE2	2.48	0.44
1:R:401:PHE:N	1:R:401:PHE:CD1	2.85	0.44
1:T:247:THR:HB	1:T:372:VAL:HG22	2.00	0.44
1:T:714:ASP:HB3	1:T:726:PRO:HG2	1.99	0.44
1:X:382:THR:HG21	1:X:394:SER:N	2.28	0.44
1:d:529:HIS:ND1	1:d:533:GLU:O	2.51	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:g:226:SER:HB2	1:g:320:ASN:H	1.82	0.44
1:i:226:SER:HB2	1:i:320:ASN:H	1.82	0.44
1:i:443:GLN:NE2	1:j:359:SER:O	2.48	0.44
1:i:529:HIS:ND1	1:i:533:GLU:O	2.50	0.44
1:j:432:SER:HA	1:j:570:THR:HB	2.00	0.44
1:k:226:SER:HB2	1:k:320:ASN:H	1.82	0.44
1:l:581:VAL:CG1	1:l:595:VAL:HB	2.48	0.44
1:n:432:SER:HA	1:n:570:THR:HB	2.00	0.44
1:q:529:HIS:ND1	1:q:533:GLU:O	2.50	0.44
1:t:226:SER:HB2	1:t:320:ASN:H	1.82	0.44
1:x:529:HIS:ND1	1:x:533:GLU:O	2.51	0.44
1:y:382:THR:HG22	1:y:383:LEU:N	2.31	0.44
1:1:247:THR:HB	1:1:372:VAL:HG22	2.00	0.44
1:2:247:THR:HB	1:2:372:VAL:HG22	2.00	0.44
1:2:529:HIS:ND1	1:2:533:GLU:O	2.51	0.44
1:5:714:ASP:HB3	1:5:726:PRO:HG2	1.99	0.44
1:6:247:THR:HB	1:6:372:VAL:HG22	2.00	0.44
1:6:432:SER:HA	1:6:570:THR:HB	2.00	0.44
1:7:247:THR:HB	1:7:372:VAL:HG22	2.00	0.44
1:8:247:THR:HB	1:8:372:VAL:HG22	2.00	0.44
1:C:359:SER:O	1:M:443:GLN:NE2	2.48	0.44
1:C:432:SER:HA	1:C:570:THR:HB	2.00	0.44
1:F:247:THR:HB	1:F:372:VAL:HG22	2.00	0.44
1:F:714:ASP:HB3	1:F:726:PRO:HG2	1.99	0.44
1:G:450:ARG:HG2	1:G:452:GLN:H	1.82	0.44
1:G:581:VAL:CG1	1:G:595:VAL:HB	2.48	0.44
1:K:714:ASP:HB3	1:K:726:PRO:HG2	1.99	0.44
1:L:432:SER:HA	1:L:570:THR:HB	2.00	0.44
1:L:581:VAL:CG1	1:L:595:VAL:HB	2.48	0.44
1:M:581:VAL:CG1	1:M:595:VAL:HB	2.48	0.44
1:P:247:THR:HB	1:P:372:VAL:HG22	2.00	0.44
1:P:362:GLN:NE2	1:Q:666:GLN:OE1	2.51	0.44
1:R:226:SER:HB2	1:R:320:ASN:H	1.82	0.44
1:T:226:SER:HB2	1:T:320:ASN:H	1.82	0.44
1:U:450:ARG:HG2	1:U:452:GLN:H	1.82	0.44
1:V:529:HIS:ND1	1:V:533:GLU:O	2.51	0.44
1:W:529:HIS:ND1	1:W:533:GLU:O	2.51	0.44
1:X:432:SER:HA	1:X:570:THR:HB	2.00	0.44
1:Y:581:VAL:CG1	1:Y:595:VAL:HB	2.48	0.44
1:Z:382:THR:HG21	1:Z:394:SER:N	2.28	0.44
1:a:432:SER:HA	1:a:570:THR:HB	2.00	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:f:581:VAL:CG1	1:f:595:VAL:HB	2.48	0.44
1:j:581:VAL:CG1	1:j:595:VAL:HB	2.48	0.44
1:k:714:ASP:HB3	1:k:726:PRO:HG2	1.99	0.44
1:l:432:SER:HA	1:l:570:THR:HB	2.00	0.44
1:m:581:VAL:CG1	1:m:595:VAL:HB	2.48	0.44
1:o:714:ASP:HB3	1:o:726:PRO:HG2	1.99	0.44
1:p:226:SER:HB2	1:p:320:ASN:H	1.82	0.44
1:p:432:SER:HA	1:p:570:THR:HB	2.00	0.44
1:p:450:ARG:HG2	1:p:452:GLN:H	1.82	0.44
1:r:581:VAL:CG1	1:r:595:VAL:HB	2.48	0.44
1:s:581:VAL:CG1	1:s:595:VAL:HB	2.48	0.44
1:s:714:ASP:HB3	1:s:726:PRO:HG2	1.99	0.44
1:t:581:VAL:CG1	1:t:595:VAL:HB	2.48	0.44
1:w:432:SER:HA	1:w:570:THR:HB	2.00	0.44
1:y:529:HIS:ND1	1:y:533:GLU:O	2.51	0.44
1:1:714:ASP:HB3	1:1:726:PRO:HG2	1.99	0.44
1:4:432:SER:HA	1:4:570:THR:HB	2.00	0.44
1:6:529:HIS:ND1	1:6:533:GLU:O	2.51	0.44
1:8:581:VAL:CG1	1:8:595:VAL:HB	2.48	0.44
1:A:666:GLN:OE1	1:B:362:GLN:NE2	2.51	0.44
1:B:247:THR:HB	1:B:372:VAL:HG22	2.00	0.44
1:B:432:SER:HA	1:B:570:THR:HB	2.00	0.44
1:D:714:ASP:HB3	1:D:726:PRO:HG2	1.99	0.44
1:F:450:ARG:HG2	1:F:452:GLN:H	1.82	0.44
1:F:529:HIS:ND1	1:F:533:GLU:O	2.51	0.44
1:G:432:SER:HA	1:G:570:THR:HB	2.00	0.44
1:H:529:HIS:ND1	1:H:533:GLU:O	2.51	0.44
1:H:581:VAL:CG1	1:H:595:VAL:HB	2.48	0.44
1:H:666:GLN:OE1	1:Z:362:GLN:NE2	2.51	0.44
1:H:714:ASP:HB3	1:H:726:PRO:HG2	1.99	0.44
1:J:450:ARG:HG2	1:J:452:GLN:H	1.82	0.44
1:K:443:GLN:NE2	1:a:359:SER:O	2.48	0.44
1:N:432:SER:HA	1:N:570:THR:HB	2.00	0.44
1:P:581:VAL:CG1	1:P:595:VAL:HB	2.48	0.44
1:R:443:GLN:NE2	1:S:359:SER:O	2.48	0.44
1:R:581:VAL:CG1	1:R:595:VAL:HB	2.48	0.44
1:S:362:GLN:NE2	1:d:666:GLN:OE1	2.51	0.44
1:Z:529:HIS:ND1	1:Z:533:GLU:O	2.51	0.44
1:b:247:THR:HB	1:b:372:VAL:HG22	2.00	0.44
1:b:529:HIS:ND1	1:b:533:GLU:O	2.51	0.44
1:c:666:GLN:OE1	1:s:362:GLN:NE2	2.51	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:e:432:SER:HA	1:e:570:THR:HB	2.00	0.44
1:g:529:HIS:ND1	1:g:533:GLU:O	2.51	0.44
1:h:714:ASP:HB3	1:h:726:PRO:HG2	1.99	0.44
1:j:529:HIS:ND1	1:j:533:GLU:O	2.51	0.44
1:m:362:GLN:NE2	1:s:666:GLN:OE1	2.51	0.44
1:m:529:HIS:ND1	1:m:533:GLU:O	2.51	0.44
1:n:226:SER:HB2	1:n:320:ASN:H	1.82	0.44
1:n:247:THR:HB	1:n:372:VAL:HG22	2.00	0.44
1:p:581:VAL:CG1	1:p:595:VAL:HB	2.48	0.44
1:t:359:SER:O	1:v:443:GLN:NE2	2.48	0.44
1:u:226:SER:HB2	1:u:320:ASN:H	1.82	0.44
1:v:247:THR:HB	1:v:372:VAL:HG22	2.00	0.44
1:z:432:SER:HA	1:z:570:THR:HB	2.00	0.44
1:2:432:SER:HA	1:2:570:THR:HB	2.00	0.44
1:B:382:THR:HG21	1:B:394:SER:N	2.28	0.44
1:C:247:THR:HB	1:C:372:VAL:HG22	2.00	0.44
1:D:443:GLN:NE2	1:N:359:SER:O	2.48	0.44
1:D:666:GLN:OE1	1:E:362:GLN:NE2	2.51	0.44
1:O:226:SER:HB2	1:O:320:ASN:H	1.82	0.44
1:O:666:GLN:OE1	1:d:362:GLN:NE2	2.51	0.44
1:T:382:THR:HG21	1:T:394:SER:N	2.28	0.44
1:V:359:SER:O	1:X:443:GLN:NE2	2.48	0.44
1:X:362:GLN:NE2	1:Y:666:GLN:OE1	2.51	0.44
1:Y:529:HIS:ND1	1:Y:533:GLU:O	2.50	0.44
1:Z:581:VAL:CG1	1:Z:595:VAL:HB	2.48	0.44
1:b:362:GLN:NE2	1:o:666:GLN:OE1	2.51	0.44
1:b:432:SER:HA	1:b:570:THR:HB	2.00	0.44
1:d:581:VAL:CG1	1:d:595:VAL:HB	2.48	0.44
1:f:529:HIS:ND1	1:f:533:GLU:O	2.51	0.44
1:h:362:GLN:NE2	1:i:666:GLN:OE1	2.51	0.44
1:i:382:THR:HG21	1:i:394:SER:N	2.28	0.44
1:r:529:HIS:ND1	1:r:533:GLU:O	2.51	0.44
1:s:529:HIS:ND1	1:s:533:GLU:O	2.51	0.44
1:t:529:HIS:ND1	1:t:533:GLU:O	2.51	0.44
1:v:450:ARG:HG2	1:v:452:GLN:H	1.82	0.44
1:x:401:PHE:N	1:x:401:PHE:CD1	2.85	0.44
1:2:581:VAL:CG1	1:2:595:VAL:HB	2.48	0.44
1:3:359:SER:O	1:4:443:GLN:NE2	2.48	0.44
1:3:714:ASP:HB3	1:3:726:PRO:HG2	1.99	0.44
1:4:247:THR:HB	1:4:372:VAL:HG22	2.00	0.44
1:6:581:VAL:CG1	1:6:595:VAL:HB	2.48	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:8:714:ASP:HB3	1:8:726:PRO:HG2	1.99	0.44
1:C:490:ARG:HB2	1:C:576:THR:HB	2.00	0.44
1:D:581:VAL:CG1	1:D:595:VAL:HB	2.48	0.44
1:E:318:LEU:HB2	1:E:412:PHE:HB3	2.00	0.44
1:E:529:HIS:ND1	1:E:533:GLU:O	2.51	0.44
1:E:581:VAL:CG1	1:E:595:VAL:HB	2.48	0.44
1:F:581:VAL:CG1	1:F:595:VAL:HB	2.48	0.44
1:G:318:LEU:HB2	1:G:412:PHE:HB3	2.00	0.44
1:H:362:GLN:NE2	1:I:666:GLN:OE1	2.51	0.44
1:N:247:THR:HB	1:N:372:VAL:HG22	2.00	0.44
1:O:362:GLN:NE2	1:P:666:GLN:OE1	2.51	0.44
1:O:529:HIS:ND1	1:O:533:GLU:O	2.50	0.44
1:R:529:HIS:ND1	1:R:533:GLU:O	2.51	0.44
1:S:226:SER:HB2	1:S:320:ASN:H	1.82	0.44
1:S:432:SER:HA	1:S:570:THR:HB	2.00	0.44
1:U:581:VAL:CG1	1:U:595:VAL:HB	2.48	0.44
1:V:247:THR:HB	1:V:372:VAL:HG22	2.00	0.44
1:W:432:SER:HA	1:W:570:THR:HB	2.00	0.44
1:X:401:PHE:N	1:X:401:PHE:CD1	2.85	0.44
1:Z:318:LEU:HB2	1:Z:412:PHE:HB3	2.00	0.44
1:a:529:HIS:ND1	1:a:533:GLU:O	2.51	0.44
1:d:401:PHE:N	1:d:401:PHE:CD1	2.85	0.44
1:d:432:SER:HA	1:d:570:THR:HB	2.00	0.44
1:g:382:THR:HG21	1:g:394:SER:N	2.28	0.44
1:j:362:GLN:NE2	1:x:666:GLN:OE1	2.51	0.44
1:l:247:THR:HB	1:l:372:VAL:HG22	2.00	0.44
1:l:318:LEU:HB2	1:l:412:PHE:HB3	2.00	0.44
1:l:450:ARG:HG2	1:l:452:GLN:H	1.82	0.44
1:m:318:LEU:HB2	1:m:412:PHE:HB3	2.00	0.44
1:n:401:PHE:CD1	1:n:401:PHE:N	2.85	0.44
1:p:318:LEU:HB2	1:p:412:PHE:HB3	2.00	0.44
1:q:401:PHE:N	1:q:401:PHE:CD1	2.85	0.44
1:r:432:SER:HA	1:r:570:THR:HB	2.00	0.44
1:u:362:GLN:NE2	1:2:666:GLN:OE1	2.51	0.44
1:u:432:SER:HA	1:u:570:THR:HB	2.00	0.44
1:v:401:PHE:CD1	1:v:401:PHE:N	2.85	0.44
1:v:581:VAL:CG1	1:v:595:VAL:HB	2.48	0.44
1:y:247:THR:HB	1:y:372:VAL:HG22	2.00	0.44
1:z:247:THR:HB	1:z:372:VAL:HG22	2.00	0.44
1:z:318:LEU:HB2	1:z:412:PHE:HB3	2.00	0.44
1:z:450:ARG:HG2	1:z:452:GLN:H	1.82	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:2:401:PHE:N	1:2:401:PHE:CD1	2.85	0.44
1:4:226:SER:HB2	1:4:320:ASN:H	1.82	0.44
1:5:247:THR:HB	1:5:372:VAL:HG22	2.00	0.44
1:5:581:VAL:CG1	1:5:595:VAL:HB	2.48	0.44
1:5:666:GLN:OE1	1:8:362:GLN:NE2	2.51	0.44
1:7:318:LEU:HB2	1:7:412:PHE:HB3	2.00	0.44
1:A:362:GLN:NE2	1:E:666:GLN:OE1	2.51	0.44
1:B:318:LEU:HB2	1:B:412:PHE:HB3	2.00	0.44
1:E:490:ARG:HB2	1:E:576:THR:HB	2.00	0.44
1:G:362:GLN:NE2	1:W:666:GLN:OE1	2.51	0.44
1:I:318:LEU:HB2	1:I:412:PHE:HB3	2.00	0.44
1:I:362:GLN:NE2	1:J:666:GLN:OE1	2.51	0.44
1:L:247:THR:HB	1:L:372:VAL:HG22	2.00	0.44
1:L:529:HIS:ND1	1:L:533:GLU:O	2.51	0.44
1:M:666:GLN:OE1	1:c:362:GLN:NE2	2.51	0.44
1:N:318:LEU:HB2	1:N:412:PHE:HB3	2.00	0.44
1:N:581:VAL:CG1	1:N:595:VAL:HB	2.48	0.44
1:Q:247:THR:HB	1:Q:372:VAL:HG22	2.00	0.44
1:Q:581:VAL:CG1	1:Q:595:VAL:HB	2.48	0.44
1:R:473:MET:HE3	1:R:473:MET:HB2	1.88	0.44
1:T:473:MET:HE3	1:T:473:MET:HB2	1.88	0.44
1:U:247:THR:HB	1:U:372:VAL:HG22	2.00	0.44
1:W:401:PHE:N	1:W:401:PHE:CD1	2.85	0.44
1:X:368:PHE:CE2	1:X:370:ALA:HB3	2.53	0.44
1:a:247:THR:HB	1:a:372:VAL:HG22	2.00	0.44
1:a:318:LEU:HB2	1:a:412:PHE:HB3	2.00	0.44
1:b:318:LEU:HB2	1:b:412:PHE:HB3	2.00	0.44
1:c:318:LEU:HB2	1:c:412:PHE:HB3	2.00	0.44
1:h:247:THR:HB	1:h:372:VAL:HG22	2.00	0.44
1:k:247:THR:HB	1:k:372:VAL:HG22	2.00	0.44
1:k:318:LEU:HB2	1:k:412:PHE:HB3	2.00	0.44
1:n:450:ARG:HG2	1:n:452:GLN:H	1.82	0.44
1:p:362:GLN:NE2	1:q:666:GLN:OE1	2.51	0.44
1:q:432:SER:HA	1:q:570:THR:HB	2.00	0.44
1:r:368:PHE:CE2	1:r:370:ALA:HB3	2.53	0.44
1:v:318:LEU:HB2	1:v:412:PHE:HB3	2.00	0.44
1:4:401:PHE:N	1:4:401:PHE:CD1	2.85	0.44
1:4:450:ARG:HG2	1:4:452:GLN:H	1.82	0.44
1:7:529:HIS:ND1	1:7:533:GLU:O	2.51	0.44
1:I:490:ARG:HB2	1:I:576:THR:HB	2.00	0.44
1:K:581:VAL:CG1	1:K:595:VAL:HB	2.48	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:318:LEU:HB2	1:L:412:PHE:HB3	2.00	0.44
1:L:490:ARG:HB2	1:L:576:THR:HB	2.00	0.44
1:M:362:GLN:NE2	1:N:666:GLN:OE1	2.51	0.44
1:N:529:HIS:ND1	1:N:533:GLU:O	2.51	0.44
1:O:368:PHE:CE2	1:O:370:ALA:HB3	2.53	0.44
1:O:714:ASP:HB3	1:O:726:PRO:HG2	1.99	0.44
1:Q:318:LEU:HB2	1:Q:412:PHE:HB3	2.00	0.44
1:Q:368:PHE:CE2	1:Q:370:ALA:HB3	2.53	0.44
1:Q:432:SER:HA	1:Q:570:THR:HB	2.00	0.44
1:R:490:ARG:HB2	1:R:576:THR:HB	2.00	0.44
1:T:490:ARG:HB2	1:T:576:THR:HB	2.00	0.44
1:T:666:GLN:OE1	1:i:362:GLN:NE2	2.51	0.44
1:U:318:LEU:HB2	1:U:412:PHE:HB3	2.00	0.44
1:U:401:PHE:N	1:U:401:PHE:CD1	2.85	0.44
1:X:490:ARG:HB2	1:X:576:THR:HB	2.00	0.44
1:Y:368:PHE:CE2	1:Y:370:ALA:HB3	2.53	0.44
1:Y:432:SER:HA	1:Y:570:THR:HB	2.00	0.44
1:a:581:VAL:CG1	1:a:595:VAL:HB	2.48	0.44
1:e:490:ARG:HB2	1:e:576:THR:HB	2.00	0.44
1:g:666:GLN:OE1	1:k:362:GLN:NE2	2.51	0.44
1:h:318:LEU:HB2	1:h:412:PHE:HB3	2.00	0.44
1:j:714:ASP:HB3	1:j:726:PRO:HG2	1.99	0.44
1:l:490:ARG:HB2	1:l:576:THR:HB	2.00	0.44
1:l:666:GLN:OE1	1:n:362:GLN:NE2	2.51	0.44
1:n:318:LEU:HB2	1:n:412:PHE:HB3	2.00	0.44
1:n:368:PHE:CE2	1:n:370:ALA:HB3	2.53	0.44
1:o:362:GLN:NE2	1:7:666:GLN:OE1	2.51	0.44
1:r:666:GLN:OE1	1:x:362:GLN:NE2	2.51	0.44
1:t:382:THR:HG21	1:t:394:SER:N	2.28	0.44
1:t:490:ARG:HB2	1:t:576:THR:HB	2.00	0.44
1:u:368:PHE:CE2	1:u:370:ALA:HB3	2.53	0.44
1:w:490:ARG:HB2	1:w:576:THR:HB	2.00	0.44
1:x:368:PHE:CE2	1:x:370:ALA:HB3	2.53	0.44
1:x:490:ARG:HB2	1:x:576:THR:HB	2.00	0.44
1:1:382:THR:HG21	1:1:394:SER:N	2.28	0.44
1:1:490:ARG:HB2	1:1:576:THR:HB	2.00	0.44
1:3:226:SER:HB2	1:3:320:ASN:H	1.82	0.44
1:3:368:PHE:CE2	1:3:370:ALA:HB3	2.53	0.44
1:3:529:HIS:ND1	1:3:533:GLU:O	2.51	0.44
1:4:368:PHE:CE2	1:4:370:ALA:HB3	2.53	0.44
1:5:318:LEU:HB2	1:5:412:PHE:HB3	2.00	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:5:368:PHE:CE2	1:5:370:ALA:HB3	2.53	0.44
1:5:432:SER:HA	1:5:570:THR:HB	2.00	0.44
1:6:401:PHE:N	1:6:401:PHE:CD1	2.85	0.44
1:7:490:ARG:HB2	1:7:576:THR:HB	2.00	0.44
1:7:581:VAL:CG1	1:7:595:VAL:HB	2.48	0.44
1:C:318:LEU:HB2	1:C:412:PHE:HB3	2.00	0.43
1:C:529:HIS:ND1	1:C:533:GLU:O	2.51	0.43
1:D:368:PHE:CE2	1:D:370:ALA:HB3	2.53	0.43
1:E:226:SER:HB2	1:E:320:ASN:H	1.82	0.43
1:F:362:GLN:NE2	1:G:666:GLN:OE1	2.51	0.43
1:F:401:PHE:N	1:F:401:PHE:CD1	2.85	0.43
1:F:666:GLN:OE1	1:R:362:GLN:NE2	2.51	0.43
1:G:382:THR:HG21	1:G:394:SER:N	2.28	0.43
1:I:581:VAL:CG1	1:I:595:VAL:HB	2.48	0.43
1:K:368:PHE:CE2	1:K:370:ALA:HB3	2.53	0.43
1:N:362:GLN:NE2	1:m:666:GLN:OE1	2.51	0.43
1:P:490:ARG:HB2	1:P:576:THR:HB	2.00	0.43
1:P:714:ASP:HB3	1:P:726:PRO:HG2	1.99	0.43
1:R:382:THR:HG21	1:R:394:SER:N	2.28	0.43
1:R:666:GLN:OE1	1:V:362:GLN:NE2	2.51	0.43
1:U:432:SER:HA	1:U:570:THR:HB	2.00	0.43
1:W:368:PHE:CE2	1:W:370:ALA:HB3	2.53	0.43
1:c:490:ARG:HB2	1:c:576:THR:HB	2.00	0.43
1:c:581:VAL:CG1	1:c:595:VAL:HB	2.48	0.43
1:f:382:THR:HG21	1:f:394:SER:N	2.28	0.43
1:g:368:PHE:CE2	1:g:370:ALA:HB3	2.53	0.43
1:i:368:PHE:CE2	1:i:370:ALA:HB3	2.53	0.43
1:q:368:PHE:CE2	1:q:370:ALA:HB3	2.53	0.43
1:r:443:GLN:NE2	1:s:359:SER:O	2.48	0.43
1:v:432:SER:HA	1:v:570:THR:HB	2.00	0.43
1:z:490:ARG:HB2	1:z:576:THR:HB	2.00	0.43
1:3:362:GLN:NE2	1:8:666:GLN:OE1	2.51	0.43
1:4:318:LEU:HB2	1:4:412:PHE:HB3	2.00	0.43
1:4:581:VAL:CG1	1:4:595:VAL:HB	2.48	0.43
1:7:401:PHE:N	1:7:401:PHE:CD1	2.85	0.43
1:8:368:PHE:CE2	1:8:370:ALA:HB3	2.53	0.43
1:B:368:PHE:CE2	1:B:370:ALA:HB3	2.53	0.43
1:D:529:HIS:ND1	1:D:533:GLU:O	2.51	0.43
1:E:401:PHE:N	1:E:401:PHE:CD1	2.85	0.43
1:F:276:PHE:HB3	1:F:384:ASN:HB3	2.01	0.43
1:H:359:SER:O	1:Y:443:GLN:NE2	2.48	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:362:GLN:NE2	1:a:666:GLN:OE1	2.51	0.43
1:K:666:GLN:OE1	1:7:362:GLN:NE2	2.51	0.43
1:P:318:LEU:HB2	1:P:412:PHE:HB3	2.00	0.43
1:P:368:PHE:CE2	1:P:370:ALA:HB3	2.53	0.43
1:S:368:PHE:CE2	1:S:370:ALA:HB3	2.53	0.43
1:S:529:HIS:ND1	1:S:533:GLU:O	2.51	0.43
1:T:318:LEU:HB2	1:T:412:PHE:HB3	2.00	0.43
1:T:432:SER:HA	1:T:570:THR:HB	2.00	0.43
1:V:368:PHE:CE2	1:V:370:ALA:HB3	2.53	0.43
1:X:450:ARG:HG2	1:X:452:GLN:H	1.82	0.43
1:Z:666:GLN:OE1	1:a:362:GLN:NE2	2.51	0.43
1:e:368:PHE:CE2	1:e:370:ALA:HB3	2.53	0.43
1:f:247:THR:HB	1:f:372:VAL:HG22	2.00	0.43
1:m:490:ARG:HB2	1:m:576:THR:HB	2.00	0.43
1:o:490:ARG:HB2	1:o:576:THR:HB	2.00	0.43
1:p:368:PHE:HA	1:p:369:PRO:HD3	1.92	0.43
1:p:382:THR:HG21	1:p:394:SER:N	2.28	0.43
1:u:401:PHE:N	1:u:401:PHE:CD1	2.85	0.43
1:v:490:ARG:HB2	1:v:576:THR:HB	2.00	0.43
1:w:368:PHE:CE2	1:w:370:ALA:HB3	2.53	0.43
1:x:450:ARG:HG2	1:x:452:GLN:H	1.82	0.43
1:x:581:VAL:CG1	1:x:595:VAL:HB	2.48	0.43
1:y:368:PHE:CE2	1:y:370:ALA:HB3	2.53	0.43
1:z:666:GLN:OE1	1:4:362:GLN:NE2	2.51	0.43
1:1:368:PHE:CE2	1:1:370:ALA:HB3	2.53	0.43
1:2:362:GLN:NE2	1:3:666:GLN:OE1	2.51	0.43
1:4:490:ARG:HB2	1:4:576:THR:HB	2.00	0.43
1:7:226:SER:HB2	1:7:320:ASN:H	1.82	0.43
1:8:318:LEU:HB2	1:8:412:PHE:HB3	2.00	0.43
1:8:490:ARG:HB2	1:8:576:THR:HB	2.00	0.43
1:A:432:SER:HA	1:A:570:THR:HB	2.00	0.43
1:A:490:ARG:HB2	1:A:576:THR:HB	2.00	0.43
1:H:247:THR:HB	1:H:372:VAL:HG22	2.00	0.43
1:I:450:ARG:HG2	1:I:452:GLN:H	1.82	0.43
1:J:368:PHE:CE2	1:J:370:ALA:HB3	2.53	0.43
1:O:382:THR:HG21	1:O:394:SER:N	2.28	0.43
1:O:490:ARG:HB2	1:O:576:THR:HB	2.00	0.43
1:T:368:PHE:CE2	1:T:370:ALA:HB3	2.53	0.43
1:T:581:VAL:CG1	1:T:595:VAL:HB	2.48	0.43
1:V:382:THR:HG21	1:V:394:SER:N	2.28	0.43
1:X:581:VAL:CG1	1:X:595:VAL:HB	2.48	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Z:226:SER:HB2	1:Z:320:ASN:H	1.82	0.43
1:Z:490:ARG:HB2	1:Z:576:THR:HB	2.00	0.43
1:b:368:PHE:CE2	1:b:370:ALA:HB3	2.53	0.43
1:c:450:ARG:HG2	1:c:452:GLN:H	1.82	0.43
1:e:362:GLN:NE2	1:h:666:GLN:OE1	2.51	0.43
1:f:714:ASP:HB3	1:f:726:PRO:HG2	1.99	0.43
1:g:362:GLN:NE2	1:1:666:GLN:OE1	2.51	0.43
1:g:490:ARG:HB2	1:g:576:THR:HB	2.00	0.43
1:h:432:SER:HA	1:h:570:THR:HB	2.00	0.43
1:h:490:ARG:HB2	1:h:576:THR:HB	2.00	0.43
1:h:581:VAL:CG1	1:h:595:VAL:HB	2.48	0.43
1:i:247:THR:HB	1:i:372:VAL:HG22	2.00	0.43
1:j:247:THR:HB	1:j:372:VAL:HG22	2.00	0.43
1:j:382:THR:HG21	1:j:394:SER:N	2.28	0.43
1:k:432:SER:HA	1:k:570:THR:HB	2.00	0.43
1:k:490:ARG:HB2	1:k:576:THR:HB	2.00	0.43
1:l:401:PHE:N	1:l:401:PHE:CD1	2.85	0.43
1:n:276:PHE:HB3	1:n:384:ASN:HB3	2.01	0.43
1:n:490:ARG:HB2	1:n:576:THR:HB	2.00	0.43
1:n:581:VAL:CG1	1:n:595:VAL:HB	2.48	0.43
1:p:368:PHE:CE2	1:p:370:ALA:HB3	2.53	0.43
1:p:666:GLN:OE1	1:6:362:GLN:NE2	2.51	0.43
1:r:490:ARG:HB2	1:r:576:THR:HB	2.00	0.43
1:t:362:GLN:NE2	1:6:666:GLN:OE1	2.51	0.43
1:z:401:PHE:N	1:z:401:PHE:CD1	2.85	0.43
1:1:318:LEU:HB2	1:1:412:PHE:HB3	2.00	0.43
1:1:432:SER:HA	1:1:570:THR:HB	2.00	0.43
1:3:490:ARG:HB2	1:3:576:THR:HB	2.00	0.43
1:4:276:PHE:HB3	1:4:384:ASN:HB3	2.01	0.43
1:B:581:VAL:CG1	1:B:595:VAL:HB	2.48	0.43
1:C:368:PHE:CE2	1:C:370:ALA:HB3	2.53	0.43
1:D:247:THR:HB	1:D:372:VAL:HG22	2.00	0.43
1:E:276:PHE:HB3	1:E:384:ASN:HB3	2.01	0.43
1:K:276:PHE:HB3	1:K:384:ASN:HB3	2.01	0.43
1:K:529:HIS:ND1	1:K:533:GLU:O	2.51	0.43
1:Q:270:THR:HG23	1:Q:272:ASP:H	1.84	0.43
1:Q:362:GLN:NE2	1:S:666:GLN:OE1	2.51	0.43
1:Q:529:HIS:ND1	1:Q:533:GLU:O	2.50	0.43
1:S:401:PHE:N	1:S:401:PHE:CD1	2.85	0.43
1:U:270:THR:HG23	1:U:272:ASP:H	1.84	0.43
1:U:490:ARG:HB2	1:U:576:THR:HB	2.00	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:X:666:GLN:OE1	1:f:362:GLN:NE2	2.51	0.43
1:Y:490:ARG:HB2	1:Y:576:THR:HB	2.00	0.43
1:a:368:PHE:HA	1:a:369:PRO:HD3	1.92	0.43
1:d:368:PHE:CE2	1:d:370:ALA:HB3	2.53	0.43
1:f:276:PHE:HB3	1:f:384:ASN:HB3	2.01	0.43
1:g:247:THR:HB	1:g:372:VAL:HG22	2.00	0.43
1:g:432:SER:HA	1:g:570:THR:HB	2.00	0.43
1:h:529:HIS:ND1	1:h:533:GLU:O	2.51	0.43
1:i:401:PHE:N	1:i:401:PHE:CD1	2.85	0.43
1:i:432:SER:HA	1:i:570:THR:HB	2.00	0.43
1:i:490:ARG:HB2	1:i:576:THR:HB	2.00	0.43
1:j:276:PHE:HB3	1:j:384:ASN:HB3	2.01	0.43
1:k:529:HIS:ND1	1:k:533:GLU:O	2.50	0.43
1:k:581:VAL:CG1	1:k:595:VAL:HB	2.48	0.43
1:m:226:SER:HB2	1:m:320:ASN:H	1.82	0.43
1:m:432:SER:HA	1:m:570:THR:HB	2.00	0.43
1:t:473:MET:HE3	1:t:473:MET:HB2	1.88	0.43
1:t:666:GLN:OE1	1:y:362:GLN:NE2	2.51	0.43
1:u:529:HIS:ND1	1:u:533:GLU:O	2.51	0.43
1:v:270:THR:HG23	1:v:272:ASP:H	1.84	0.43
1:v:362:GLN:NE2	1:w:666:GLN:OE1	2.51	0.43
1:v:529:HIS:ND1	1:v:533:GLU:O	2.51	0.43
1:w:581:VAL:CG1	1:w:595:VAL:HB	2.48	0.43
1:y:382:THR:HG21	1:y:394:SER:N	2.28	0.43
1:1:529:HIS:ND1	1:1:533:GLU:O	2.51	0.43
1:1:581:VAL:CG1	1:1:595:VAL:HB	2.48	0.43
1:7:368:PHE:CE2	1:7:370:ALA:HB3	2.53	0.43
1:8:432:SER:HA	1:8:570:THR:HB	2.00	0.43
1:C:276:PHE:HB3	1:C:384:ASN:HB3	2.01	0.43
1:G:368:PHE:CE2	1:G:370:ALA:HB3	2.53	0.43
1:H:368:PHE:CE2	1:H:370:ALA:HB3	2.53	0.43
1:H:382:THR:HG21	1:H:394:SER:N	2.28	0.43
1:H:503:PHE:CZ	1:Y:451:THR:HG21	2.54	0.43
1:K:247:THR:HB	1:K:372:VAL:HG22	2.00	0.43
1:L:276:PHE:HB3	1:L:384:ASN:HB3	2.01	0.43
1:L:368:PHE:CE2	1:L:370:ALA:HB3	2.53	0.43
1:M:368:PHE:CE2	1:M:370:ALA:HB3	2.53	0.43
1:N:401:PHE:N	1:N:401:PHE:CD1	2.85	0.43
1:O:581:VAL:CG1	1:O:595:VAL:HB	2.48	0.43
1:S:247:THR:HB	1:S:372:VAL:HG22	2.00	0.43
1:T:529:HIS:ND1	1:T:533:GLU:O	2.51	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:U:529:HIS:ND1	1:U:533:GLU:O	2.51	0.43
1:V:581:VAL:CG1	1:V:595:VAL:HB	2.48	0.43
1:X:276:PHE:HB3	1:X:384:ASN:HB3	2.01	0.43
1:Y:270:THR:HG23	1:Y:272:ASP:H	1.84	0.43
1:Z:276:PHE:HB3	1:Z:384:ASN:HB3	2.01	0.43
1:Z:368:PHE:CE2	1:Z:370:ALA:HB3	2.53	0.43
1:Z:401:PHE:N	1:Z:401:PHE:CD1	2.85	0.43
1:e:581:VAL:CG1	1:e:595:VAL:HB	2.48	0.43
1:g:401:PHE:N	1:g:401:PHE:CD1	2.85	0.43
1:g:581:VAL:CG1	1:g:595:VAL:HB	2.48	0.43
1:m:368:PHE:CE2	1:m:370:ALA:HB3	2.53	0.43
1:m:401:PHE:N	1:m:401:PHE:CD1	2.85	0.43
1:p:490:ARG:HB2	1:p:576:THR:HB	2.00	0.43
1:r:270:THR:HG23	1:r:272:ASP:H	1.84	0.43
1:r:451:THR:HG21	1:s:503:PHE:CZ	2.54	0.43
1:s:247:THR:HB	1:s:372:VAL:HG22	2.00	0.43
1:w:270:THR:HG23	1:w:272:ASP:H	1.84	0.43
1:x:247:THR:HB	1:x:372:VAL:HG22	2.00	0.43
1:y:581:VAL:CG1	1:y:595:VAL:HB	2.48	0.43
1:1:473:MET:HE3	1:1:473:MET:HB2	1.88	0.43
1:2:368:PHE:CE2	1:2:370:ALA:HB3	2.53	0.43
1:5:270:THR:HG23	1:5:272:ASP:H	1.84	0.43
1:5:529:HIS:ND1	1:5:533:GLU:O	2.51	0.43
1:6:276:PHE:HB3	1:6:384:ASN:HB3	2.01	0.43
1:7:276:PHE:HB3	1:7:384:ASN:HB3	2.01	0.43
1:8:270:THR:HG23	1:8:272:ASP:H	1.84	0.43
1:A:247:THR:HB	1:A:372:VAL:HG22	2.00	0.43
1:A:368:PHE:CE2	1:A:370:ALA:HB3	2.53	0.43
1:C:401:PHE:N	1:C:401:PHE:CD1	2.85	0.43
1:D:276:PHE:HB3	1:D:384:ASN:HB3	2.01	0.43
1:G:490:ARG:HB2	1:G:576:THR:HB	2.00	0.43
1:I:247:THR:HB	1:I:372:VAL:HG22	2.00	0.43
1:N:276:PHE:HB3	1:N:384:ASN:HB3	2.01	0.43
1:R:714:ASP:HB3	1:R:726:PRO:HG2	1.99	0.43
1:V:666:GLN:OE1	1:W:362:GLN:NE2	2.51	0.43
1:Z:359:SER:O	1:3:443:GLN:NE2	2.48	0.43
1:Z:432:SER:HA	1:Z:570:THR:HB	2.00	0.43
1:a:276:PHE:HB3	1:a:384:ASN:HB3	2.01	0.43
1:b:581:VAL:CG1	1:b:595:VAL:HB	2.48	0.43
1:e:270:THR:HG23	1:e:272:ASP:H	1.84	0.43
1:i:581:VAL:CG1	1:i:595:VAL:HB	2.48	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:k:666:GLN:OE1	1:w:362:GLN:NE2	2.51	0.43
1:m:276:PHE:HB3	1:m:384:ASN:HB3	2.01	0.43
1:m:451:THR:HG21	1:n:503:PHE:CZ	2.54	0.43
1:o:247:THR:HB	1:o:372:VAL:HG22	2.00	0.43
1:o:432:SER:HA	1:o:570:THR:HB	2.00	0.43
1:q:276:PHE:HB3	1:q:384:ASN:HB3	2.01	0.43
1:q:362:GLN:NE2	1:y:666:GLN:OE1	2.51	0.43
1:r:368:PHE:HA	1:r:369:PRO:HD3	1.92	0.43
1:s:368:PHE:CE2	1:s:370:ALA:HB3	2.53	0.43
1:s:382:THR:HG21	1:s:394:SER:N	2.28	0.43
1:u:247:THR:HB	1:u:372:VAL:HG22	2.00	0.43
1:x:276:PHE:HB3	1:x:384:ASN:HB3	2.01	0.43
1:z:276:PHE:HB3	1:z:384:ASN:HB3	2.01	0.43
1:3:318:LEU:HB2	1:3:412:PHE:HB3	2.00	0.43
1:3:382:THR:HG21	1:3:394:SER:N	2.28	0.43
1:3:581:VAL:CG1	1:3:595:VAL:HB	2.48	0.43
1:B:450:ARG:HG2	1:B:452:GLN:H	1.82	0.43
1:D:490:ARG:HB2	1:D:576:THR:HB	2.00	0.43
1:E:368:PHE:CE2	1:E:370:ALA:HB3	2.53	0.43
1:F:368:PHE:CE2	1:F:370:ALA:HB3	2.53	0.43
1:F:473:MET:HE3	1:F:473:MET:HB2	1.88	0.43
1:F:503:PHE:CZ	1:Q:451:THR:HG21	2.54	0.43
1:G:247:THR:HB	1:G:372:VAL:HG22	2.00	0.43
1:H:432:SER:HA	1:H:570:THR:HB	2.00	0.43
1:J:276:PHE:HB3	1:J:384:ASN:HB3	2.01	0.43
1:L:401:PHE:N	1:L:401:PHE:CD1	2.85	0.43
1:M:432:SER:HA	1:M:570:THR:HB	2.00	0.43
1:O:270:THR:HG23	1:O:272:ASP:H	1.84	0.43
1:O:318:LEU:HB2	1:O:412:PHE:HB3	2.00	0.43
1:P:270:THR:HG23	1:P:272:ASP:H	1.84	0.43
1:P:432:SER:HA	1:P:570:THR:HB	2.00	0.43
1:R:247:THR:HB	1:R:372:VAL:HG22	2.00	0.43
1:S:714:ASP:HB3	1:S:726:PRO:HG2	1.99	0.43
1:T:451:THR:HG21	1:d:503:PHE:CZ	2.54	0.43
1:X:247:THR:HB	1:X:372:VAL:HG22	2.00	0.43
1:a:368:PHE:CE2	1:a:370:ALA:HB3	2.53	0.43
1:a:401:PHE:N	1:a:401:PHE:CD1	2.85	0.43
1:b:450:ARG:HG2	1:b:452:GLN:H	1.82	0.43
1:c:247:THR:HB	1:c:372:VAL:HG22	2.00	0.43
1:l:276:PHE:HB3	1:l:384:ASN:HB3	2.01	0.43
1:o:368:PHE:CE2	1:o:370:ALA:HB3	2.53	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:p:247:THR:HB	1:p:372:VAL:HG22	2.00	0.43
1:s:432:SER:HA	1:s:570:THR:HB	2.00	0.43
1:t:432:SER:HA	1:t:570:THR:HB	2.00	0.43
1:u:490:ARG:HB2	1:u:576:THR:HB	2.00	0.43
1:v:368:PHE:CE2	1:v:370:ALA:HB3	2.53	0.43
1:2:490:ARG:HB2	1:2:576:THR:HB	2.00	0.43
1:3:270:THR:HG23	1:3:272:ASP:H	1.84	0.43
1:6:368:PHE:CE2	1:6:370:ALA:HB3	2.53	0.43
1:I:427:TYR:CE1	1:I:736:ARG:HD3	2.54	0.43
1:J:490:ARG:HB2	1:J:576:THR:HB	2.00	0.43
1:K:490:ARG:HB2	1:K:576:THR:HB	2.00	0.43
1:L:270:THR:HG23	1:L:272:ASP:H	1.84	0.43
1:M:276:PHE:HB3	1:M:384:ASN:HB3	2.01	0.43
1:M:490:ARG:HB2	1:M:576:THR:HB	2.00	0.43
1:N:368:PHE:CE2	1:N:370:ALA:HB3	2.53	0.43
1:O:427:TYR:CE1	1:O:736:ARG:HD3	2.54	0.43
1:O:503:PHE:CZ	1:n:451:THR:HG21	2.54	0.43
1:R:270:THR:HG23	1:R:272:ASP:H	1.84	0.43
1:R:432:SER:HA	1:R:570:THR:HB	2.00	0.43
1:U:362:GLN:NE2	1:e:666:GLN:OE1	2.51	0.43
1:U:368:PHE:CE2	1:U:370:ALA:HB3	2.53	0.43
1:W:276:PHE:HB3	1:W:384:ASN:HB3	2.01	0.43
1:Z:451:THR:HG21	1:4:503:PHE:CZ	2.54	0.43
1:b:276:PHE:HB3	1:b:384:ASN:HB3	2.01	0.43
1:c:427:TYR:CE1	1:c:736:ARG:HD3	2.54	0.43
1:d:270:THR:HG23	1:d:272:ASP:H	1.84	0.43
1:d:427:TYR:CE1	1:d:736:ARG:HD3	2.54	0.43
1:d:490:ARG:HB2	1:d:576:THR:HB	2.00	0.43
1:f:451:THR:HG21	1:h:503:PHE:CZ	2.54	0.43
1:f:666:GLN:OE1	1:z:362:GLN:NE2	2.51	0.43
1:i:270:THR:HG23	1:i:272:ASP:H	1.84	0.43
1:j:451:THR:HG21	1:k:503:PHE:CZ	2.54	0.43
1:j:666:GLN:OE1	1:l:362:GLN:NE2	2.51	0.43
1:k:368:PHE:CE2	1:k:370:ALA:HB3	2.53	0.43
1:m:450:ARG:HG2	1:m:452:GLN:H	1.82	0.43
1:s:401:PHE:N	1:s:401:PHE:CD1	2.85	0.43
1:s:490:ARG:HB2	1:s:576:THR:HB	2.00	0.43
1:t:247:THR:HB	1:t:372:VAL:HG22	2.00	0.43
1:t:270:THR:HG23	1:t:272:ASP:H	1.84	0.43
1:t:427:TYR:CE1	1:t:736:ARG:HD3	2.54	0.43
1:u:504:ALA:O	1:u:508:ALA:HB2	2.19	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:u:666:GLN:OE1	1:5:362:GLN:NE2	2.51	0.43
1:u:714:ASP:HB3	1:u:726:PRO:HG2	1.99	0.43
1:w:529:HIS:ND1	1:w:533:GLU:O	2.51	0.43
1:2:270:THR:HG23	1:2:272:ASP:H	1.84	0.43
1:2:276:PHE:HB3	1:2:384:ASN:HB3	2.01	0.43
1:3:427:TYR:CE1	1:3:736:ARG:HD3	2.54	0.43
1:5:451:THR:HG21	1:6:503:PHE:CZ	2.54	0.43
1:D:270:THR:HG23	1:D:272:ASP:H	1.84	0.43
1:E:270:THR:HG23	1:E:272:ASP:H	1.84	0.43
1:J:432:SER:HA	1:J:570:THR:HB	2.00	0.43
1:N:368:PHE:HA	1:N:369:PRO:HD3	1.92	0.43
1:O:432:SER:HA	1:O:570:THR:HB	2.00	0.43
1:R:427:TYR:CE1	1:R:736:ARG:HD3	2.54	0.43
1:S:490:ARG:HB2	1:S:576:THR:HB	2.00	0.43
1:S:504:ALA:O	1:S:508:ALA:HB2	2.19	0.43
1:T:503:PHE:CZ	1:l:451:THR:HG21	2.54	0.43
1:V:503:PHE:CZ	1:X:451:THR:HG21	2.54	0.43
1:W:427:TYR:CE1	1:W:736:ARG:HD3	2.54	0.43
1:Y:276:PHE:HB3	1:Y:384:ASN:HB3	2.01	0.43
1:Z:450:ARG:HG2	1:Z:452:GLN:H	1.82	0.43
1:c:270:THR:HG23	1:c:272:ASP:H	1.84	0.43
1:c:368:PHE:CE2	1:c:370:ALA:HB3	2.53	0.43
1:d:276:PHE:HB3	1:d:384:ASN:HB3	2.01	0.43
1:e:529:HIS:ND1	1:e:533:GLU:O	2.51	0.43
1:g:270:THR:HG23	1:g:272:ASP:H	1.84	0.43
1:h:368:PHE:CE2	1:h:370:ALA:HB3	2.53	0.43
1:j:270:THR:HG23	1:j:272:ASP:H	1.84	0.43
1:j:368:PHE:CE2	1:j:370:ALA:HB3	2.53	0.43
1:l:368:PHE:CE2	1:l:370:ALA:HB3	2.53	0.43
1:l:419:GLU:OE2	1:l:643:LYS:N	2.52	0.43
1:n:504:ALA:O	1:n:508:ALA:HB2	2.19	0.43
1:o:276:PHE:HB3	1:o:384:ASN:HB3	2.01	0.43
1:r:276:PHE:HB3	1:r:384:ASN:HB3	2.01	0.43
1:v:473:MET:HE3	1:v:473:MET:HB2	1.88	0.43
1:x:318:LEU:HB2	1:x:412:PHE:HB3	2.00	0.43
1:x:435:ARG:HD2	1:y:381:LEU:HD13	2.00	0.43
1:x:610:GLN:HE22	1:y:627:THR:HA	1.84	0.43
1:y:318:LEU:HB2	1:y:412:PHE:HB3	2.00	0.43
1:z:368:PHE:CE2	1:z:370:ALA:HB3	2.53	0.43
1:z:419:GLU:OE2	1:z:643:LYS:N	2.52	0.43
1:z:503:PHE:CZ	1:2:451:THR:HG21	2.54	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1:401:PHE:N	1:1:401:PHE:CD1	2.85	0.43
1:1:451:THR:HG21	1:2:503:PHE:CZ	2.54	0.43
1:2:427:TYR:CE1	1:2:736:ARG:HD3	2.54	0.43
1:3:432:SER:HA	1:3:570:THR:HB	2.00	0.43
1:A:276:PHE:HB3	1:A:384:ASN:HB3	2.01	0.43
1:B:427:TYR:CE1	1:B:736:ARG:HD3	2.54	0.43
1:C:270:THR:HG23	1:C:272:ASP:H	1.84	0.43
1:H:401:PHE:N	1:H:401:PHE:CD1	2.85	0.43
1:H:490:ARG:HB2	1:H:576:THR:HB	2.00	0.43
1:I:270:THR:HG23	1:I:272:ASP:H	1.84	0.43
1:I:368:PHE:CE2	1:I:370:ALA:HB3	2.53	0.43
1:K:270:THR:HG23	1:K:272:ASP:H	1.84	0.43
1:O:473:MET:HE3	1:O:473:MET:HB2	1.88	0.43
1:Q:490:ARG:HB2	1:Q:576:THR:HB	2.00	0.43
1:R:610:GLN:HE22	1:S:627:THR:HA	1.84	0.43
1:R:627:THR:HA	1:U:610:GLN:HE22	1.84	0.43
1:S:427:TYR:CE1	1:S:736:ARG:HD3	2.54	0.43
1:T:362:GLN:NE2	1:U:666:GLN:OE1	2.51	0.43
1:T:426:SER:HB2	1:T:731:THR:HG22	2.01	0.43
1:U:504:ALA:O	1:U:508:ALA:HB2	2.19	0.43
1:V:318:LEU:HB2	1:V:412:PHE:HB3	2.00	0.43
1:V:627:THR:HA	1:X:610:GLN:HE22	1.84	0.43
1:X:318:LEU:HB2	1:X:412:PHE:HB3	2.00	0.43
1:Z:270:THR:HG23	1:Z:272:ASP:H	1.84	0.43
1:a:490:ARG:HB2	1:a:576:THR:HB	2.00	0.43
1:b:427:TYR:CE1	1:b:736:ARG:HD3	2.54	0.43
1:c:504:ALA:O	1:c:508:ALA:HB2	2.19	0.43
1:f:270:THR:HG23	1:f:272:ASP:H	1.84	0.43
1:g:318:LEU:HB2	1:g:412:PHE:HB3	2.00	0.43
1:g:427:TYR:CE1	1:g:736:ARG:HD3	2.54	0.43
1:h:504:ALA:O	1:h:508:ALA:HB2	2.19	0.43
1:i:318:LEU:HB2	1:i:412:PHE:HB3	2.00	0.43
1:k:504:ALA:O	1:k:508:ALA:HB2	2.19	0.43
1:l:270:THR:HG23	1:l:272:ASP:H	1.84	0.43
1:n:270:THR:HG23	1:n:272:ASP:H	1.84	0.43
1:o:426:SER:HB2	1:o:731:THR:HG22	2.01	0.43
1:p:270:THR:HG23	1:p:272:ASP:H	1.84	0.43
1:p:427:TYR:CE1	1:p:736:ARG:HD3	2.54	0.43
1:q:247:THR:HB	1:q:372:VAL:HG22	2.00	0.43
1:q:427:TYR:CE1	1:q:736:ARG:HD3	2.54	0.43
1:t:368:PHE:CE2	1:t:370:ALA:HB3	2.53	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:t:714:ASP:HB3	1:t:726:PRO:HG2	1.99	0.43
1:u:427:TYR:CE1	1:u:736:ARG:HD3	2.54	0.43
1:v:666:GLN:OE1	1:1:362:GLN:NE2	2.51	0.43
1:y:427:TYR:CE1	1:y:736:ARG:HD3	2.54	0.43
1:3:503:PHE:CZ	1:4:451:THR:HG21	2.54	0.43
1:4:270:THR:HG23	1:4:272:ASP:H	1.84	0.43
1:4:504:ALA:O	1:4:508:ALA:HB2	2.19	0.43
1:5:490:ARG:HB2	1:5:576:THR:HB	2.00	0.43
1:A:270:THR:HG23	1:A:272:ASP:H	1.84	0.42
1:A:426:SER:HB2	1:A:731:THR:HG22	2.01	0.42
1:B:276:PHE:HB3	1:B:384:ASN:HB3	2.01	0.42
1:B:666:GLN:OE1	1:C:362:GLN:NE2	2.51	0.42
1:D:427:TYR:CE1	1:D:736:ARG:HD3	2.54	0.42
1:E:451:THR:HG21	1:Q:503:PHE:CZ	2.54	0.42
1:G:270:THR:HG23	1:G:272:ASP:H	1.84	0.42
1:G:427:TYR:CE1	1:G:736:ARG:HD3	2.54	0.42
1:I:504:ALA:O	1:I:508:ALA:HB2	2.19	0.42
1:J:451:THR:HG21	1:L:503:PHE:CZ	2.54	0.42
1:K:362:GLN:NE2	1:L:666:GLN:OE1	2.51	0.42
1:M:401:PHE:N	1:M:401:PHE:CD1	2.85	0.42
1:N:270:THR:HG23	1:N:272:ASP:H	1.84	0.42
1:N:426:SER:HB2	1:N:731:THR:HG22	2.01	0.42
1:O:443:GLN:NE2	1:m:359:SER:O	2.48	0.42
1:R:318:LEU:HB2	1:R:412:PHE:HB3	2.00	0.42
1:R:368:PHE:CE2	1:R:370:ALA:HB3	2.53	0.42
1:S:312:LYS:HA	1:S:312:LYS:HD2	1.90	0.42
1:T:401:PHE:N	1:T:401:PHE:CD1	2.85	0.42
1:V:427:TYR:CE1	1:V:736:ARG:HD3	2.54	0.42
1:V:432:SER:HA	1:V:570:THR:HB	2.00	0.42
1:W:247:THR:HB	1:W:372:VAL:HG22	2.00	0.42
1:W:368:PHE:HA	1:W:369:PRO:HD3	1.92	0.42
1:X:419:GLU:OE2	1:X:643:LYS:N	2.52	0.42
1:Y:247:THR:HB	1:Y:372:VAL:HG22	2.00	0.42
1:Y:419:GLU:OE2	1:Y:643:LYS:N	2.52	0.42
1:Z:312:LYS:HA	1:Z:312:LYS:HD2	1.90	0.42
1:d:451:THR:HG21	1:l:503:PHE:CZ	2.54	0.42
1:f:368:PHE:CE2	1:f:370:ALA:HB3	2.53	0.42
1:f:503:PHE:CZ	1:g:451:THR:HG21	2.54	0.42
1:i:427:TYR:CE1	1:i:736:ARG:HD3	2.54	0.42
1:i:504:ALA:O	1:i:508:ALA:HB2	2.19	0.42
1:m:270:THR:HG23	1:m:272:ASP:H	1.84	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:n:427:TYR:CE1	1:n:736:ARG:HD3	2.54	0.42
1:o:270:THR:HG23	1:o:272:ASP:H	1.84	0.42
1:o:504:ALA:O	1:o:508:ALA:HB2	2.19	0.42
1:r:419:GLU:OE2	1:r:643:LYS:N	2.52	0.42
1:v:504:ALA:O	1:v:508:ALA:HB2	2.19	0.42
1:y:432:SER:HA	1:y:570:THR:HB	2.00	0.42
1:y:490:ARG:HB2	1:y:576:THR:HB	2.00	0.42
1:z:270:THR:HG23	1:z:272:ASP:H	1.84	0.42
1:1:426:SER:HB2	1:1:731:THR:HG22	2.01	0.42
1:2:318:LEU:HB2	1:2:412:PHE:HB3	2.00	0.42
1:4:427:TYR:CE1	1:4:736:ARG:HD3	2.54	0.42
1:6:473:MET:HE3	1:6:473:MET:HB2	1.88	0.42
1:7:270:THR:HG23	1:7:272:ASP:H	1.84	0.42
1:A:451:THR:HG21	1:G:503:PHE:CZ	2.54	0.42
1:C:503:PHE:CZ	1:M:451:THR:HG21	2.54	0.42
1:C:666:GLN:OE1	1:D:362:GLN:NE2	2.51	0.42
1:D:250:LEU:HD13	1:D:251:PRO:O	2.20	0.42
1:D:432:SER:HA	1:D:570:THR:HB	2.00	0.42
1:E:473:MET:HE3	1:E:473:MET:HB2	1.88	0.42
1:F:318:LEU:HB2	1:F:412:PHE:HB3	2.00	0.42
1:G:504:ALA:O	1:G:508:ALA:HB2	2.19	0.42
1:H:318:LEU:HB2	1:H:412:PHE:HB3	2.00	0.42
1:I:432:SER:HA	1:I:570:THR:HB	2.00	0.42
1:J:318:LEU:HB2	1:J:412:PHE:HB3	2.00	0.42
1:K:250:LEU:HD13	1:K:251:PRO:O	2.20	0.42
1:N:490:ARG:HB2	1:N:576:THR:HB	2.00	0.42
1:N:610:GLN:HE22	1:P:627:THR:HA	1.84	0.42
1:O:250:LEU:HD13	1:O:251:PRO:O	2.20	0.42
1:O:419:GLU:OE2	1:O:643:LYS:N	2.52	0.42
1:Q:426:SER:HB2	1:Q:731:THR:HG22	2.01	0.42
1:R:250:LEU:HD13	1:R:251:PRO:O	2.20	0.42
1:R:426:SER:HB2	1:R:731:THR:HG22	2.01	0.42
1:T:504:ALA:O	1:T:508:ALA:HB2	2.19	0.42
1:V:490:ARG:HB2	1:V:576:THR:HB	2.00	0.42
1:Y:427:TYR:CE1	1:Y:736:ARG:HD3	2.54	0.42
1:Z:247:THR:HB	1:Z:372:VAL:HG22	2.00	0.42
1:Z:427:TYR:CE1	1:Z:736:ARG:HD3	2.54	0.42
1:a:270:THR:HG23	1:a:272:ASP:H	1.84	0.42
1:d:318:LEU:HB2	1:d:412:PHE:HB3	2.00	0.42
1:f:401:PHE:N	1:f:401:PHE:CD1	2.85	0.42
1:f:426:SER:HB2	1:f:731:THR:HG22	2.01	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:f:610:GLN:HE22	1:h:627:THR:HA	1.84	0.42
1:g:504:ALA:O	1:g:508:ALA:HB2	2.19	0.42
1:g:627:THR:HA	1:h:610:GLN:HE22	1.84	0.42
1:h:426:SER:HB2	1:h:731:THR:HG22	2.01	0.42
1:i:451:THR:HG21	1:j:503:PHE:CZ	2.54	0.42
1:i:627:THR:HA	1:k:610:GLN:HE22	1.84	0.42
1:j:610:GLN:HE22	1:k:627:THR:HA	1.85	0.42
1:k:426:SER:HB2	1:k:731:THR:HG22	2.01	0.42
1:k:427:TYR:CE1	1:k:736:ARG:HD3	2.54	0.42
1:l:504:ALA:O	1:l:508:ALA:HB2	2.19	0.42
1:o:427:TYR:CE1	1:o:736:ARG:HD3	2.54	0.42
1:o:451:THR:HG21	1:p:503:PHE:CZ	2.54	0.42
1:p:401:PHE:N	1:p:401:PHE:CD1	2.85	0.42
1:p:504:ALA:O	1:p:508:ALA:HB2	2.19	0.42
1:q:610:GLN:HE22	1:r:627:THR:HA	1.84	0.42
1:t:250:LEU:HD13	1:t:251:PRO:O	2.20	0.42
1:t:451:THR:HG21	1:u:503:PHE:CZ	2.54	0.42
1:x:419:GLU:OE2	1:x:643:LYS:N	2.52	0.42
1:x:426:SER:HB2	1:x:731:THR:HG22	2.01	0.42
1:z:451:THR:HG21	1:1:503:PHE:CZ	2.54	0.42
1:z:504:ALA:O	1:z:508:ALA:HB2	2.19	0.42
1:3:419:GLU:OE2	1:3:643:LYS:N	2.52	0.42
1:3:473:MET:HE3	1:3:473:MET:HB2	1.88	0.42
1:8:426:SER:HB2	1:8:731:THR:HG22	2.01	0.42
1:A:250:LEU:HD13	1:A:251:PRO:O	2.20	0.42
1:A:504:ALA:O	1:A:508:ALA:HB2	2.19	0.42
1:B:503:PHE:CZ	1:L:451:THR:HG21	2.54	0.42
1:D:401:PHE:N	1:D:401:PHE:CD1	2.85	0.42
1:E:503:PHE:CZ	1:F:451:THR:HG21	2.54	0.42
1:G:401:PHE:N	1:G:401:PHE:CD1	2.85	0.42
1:G:451:THR:HG21	1:I:503:PHE:CZ	2.54	0.42
1:I:401:PHE:N	1:I:401:PHE:CD1	2.85	0.42
1:J:426:SER:HB2	1:J:731:THR:HG22	2.01	0.42
1:K:427:TYR:CE1	1:K:736:ARG:HD3	2.54	0.42
1:K:432:SER:HA	1:K:570:THR:HB	2.00	0.42
1:K:504:ALA:O	1:K:508:ALA:HB2	2.19	0.42
1:L:362:GLN:NE2	1:b:666:GLN:OE1	2.51	0.42
1:M:318:LEU:HB2	1:M:412:PHE:HB3	2.00	0.42
1:N:504:ALA:O	1:N:508:ALA:HB2	2.19	0.42
1:O:359:SER:O	1:n:443:GLN:NE2	2.48	0.42
1:O:451:THR:HG21	1:m:503:PHE:CZ	2.54	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:P:250:LEU:HD13	1:P:251:PRO:O	2.20	0.42
1:P:368:PHE:HA	1:P:369:PRO:HD3	1.92	0.42
1:R:451:THR:HG21	1:S:503:PHE:CZ	2.54	0.42
1:U:426:SER:HB2	1:U:731:THR:HG22	2.01	0.42
1:V:426:SER:HB2	1:V:731:THR:HG22	2.01	0.42
1:W:504:ALA:O	1:W:508:ALA:HB2	2.19	0.42
1:W:610:GLN:HE22	1:Y:627:THR:HA	1.84	0.42
1:X:426:SER:HB2	1:X:731:THR:HG22	2.01	0.42
1:Y:362:GLN:NE2	1:4:666:GLN:OE1	2.51	0.42
1:Z:503:PHE:CZ	1:3:451:THR:HG21	2.54	0.42
1:a:426:SER:HB2	1:a:731:THR:HG22	2.01	0.42
1:c:432:SER:HA	1:c:570:THR:HB	2.00	0.42
1:i:610:GLN:HE22	1:j:627:THR:HA	1.85	0.42
1:j:401:PHE:N	1:j:401:PHE:CD1	2.85	0.42
1:j:426:SER:HB2	1:j:731:THR:HG22	2.02	0.42
1:j:504:ALA:O	1:j:508:ALA:HB2	2.19	0.42
1:m:427:TYR:CE1	1:m:736:ARG:HD3	2.54	0.42
1:o:250:LEU:HD13	1:o:251:PRO:O	2.20	0.42
1:q:504:ALA:O	1:q:508:ALA:HB2	2.19	0.42
1:r:610:GLN:HE22	1:s:627:THR:HA	1.85	0.42
1:s:276:PHE:HB3	1:s:384:ASN:HB3	2.01	0.42
1:t:318:LEU:HB2	1:t:412:PHE:HB3	2.00	0.42
1:t:627:THR:HA	1:v:610:GLN:HE22	1.85	0.42
1:u:250:LEU:HD13	1:u:251:PRO:O	2.19	0.42
1:u:318:LEU:HB2	1:u:412:PHE:HB3	2.00	0.42
1:v:426:SER:HB2	1:v:731:THR:HG22	2.01	0.42
1:1:504:ALA:O	1:1:508:ALA:HB2	2.19	0.42
1:3:250:LEU:HD13	1:3:251:PRO:O	2.20	0.42
1:3:276:PHE:HB3	1:3:384:ASN:HB3	2.01	0.42
1:5:426:SER:HB2	1:5:731:THR:HG22	2.01	0.42
1:6:270:THR:HG23	1:6:272:ASP:H	1.84	0.42
1:8:250:LEU:HD13	1:8:251:PRO:O	2.20	0.42
1:8:427:TYR:CE1	1:8:736:ARG:HD3	2.54	0.42
1:A:427:TYR:CE1	1:A:736:ARG:HD3	2.54	0.42
1:D:451:THR:HG21	1:N:503:PHE:CZ	2.54	0.42
1:D:504:ALA:O	1:D:508:ALA:HB2	2.19	0.42
1:E:610:GLN:HE22	1:Q:627:THR:HA	1.84	0.42
1:F:270:THR:HG23	1:F:272:ASP:H	1.84	0.42
1:G:276:PHE:HB3	1:G:384:ASN:HB3	2.01	0.42
1:H:276:PHE:HB3	1:H:384:ASN:HB3	2.01	0.42
1:J:401:PHE:N	1:J:401:PHE:CD1	2.85	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:419:GLU:OE2	1:J:643:LYS:N	2.52	0.42
1:K:401:PHE:N	1:K:401:PHE:CD1	2.85	0.42
1:K:451:THR:HG21	1:a:503:PHE:CZ	2.54	0.42
1:M:419:GLU:OE2	1:M:643:LYS:N	2.52	0.42
1:M:426:SER:HB2	1:M:731:THR:HG22	2.01	0.42
1:O:276:PHE:HB3	1:O:384:ASN:HB3	2.01	0.42
1:O:401:PHE:N	1:O:401:PHE:CD1	2.85	0.42
1:O:627:THR:HA	1:n:610:GLN:HE22	1.84	0.42
1:P:426:SER:HB2	1:P:731:THR:HG22	2.02	0.42
1:P:427:TYR:CE1	1:P:736:ARG:HD3	2.54	0.42
1:Q:504:ALA:O	1:Q:508:ALA:HB2	2.19	0.42
1:R:276:PHE:HB3	1:R:384:ASN:HB3	2.01	0.42
1:S:250:LEU:HD13	1:S:251:PRO:O	2.20	0.42
1:S:318:LEU:HB2	1:S:412:PHE:HB3	2.00	0.42
1:T:610:GLN:HE22	1:d:627:THR:HA	1.85	0.42
1:U:427:TYR:CE1	1:U:736:ARG:HD3	2.54	0.42
1:U:473:MET:HB2	1:U:473:MET:HE3	1.88	0.42
1:W:451:THR:HG21	1:Y:503:PHE:CZ	2.54	0.42
1:c:401:PHE:N	1:c:401:PHE:CD1	2.85	0.42
1:c:503:PHE:CZ	1:p:451:THR:HG21	2.54	0.42
1:d:426:SER:HB2	1:d:731:THR:HG22	2.01	0.42
1:f:504:ALA:O	1:f:508:ALA:HB2	2.19	0.42
1:f:627:THR:HA	1:g:610:GLN:HE22	1.85	0.42
1:h:419:GLU:OE2	1:h:643:LYS:N	2.52	0.42
1:h:427:TYR:CE1	1:h:736:ARG:HD3	2.54	0.42
1:m:247:THR:HB	1:m:372:VAL:HG22	2.00	0.42
1:n:666:GLN:OE1	1:r:362:GLN:NE2	2.51	0.42
1:q:270:THR:HG23	1:q:272:ASP:H	1.84	0.42
1:r:318:LEU:HB2	1:r:412:PHE:HB3	2.00	0.42
1:r:427:TYR:CE1	1:r:736:ARG:HD3	2.54	0.42
1:s:318:LEU:HB2	1:s:412:PHE:HB3	2.00	0.42
1:s:419:GLU:OE2	1:s:643:LYS:N	2.52	0.42
1:t:276:PHE:HB3	1:t:384:ASN:HB3	2.01	0.42
1:t:426:SER:HB2	1:t:731:THR:HG22	2.01	0.42
1:t:610:GLN:HE22	1:u:627:THR:HA	1.85	0.42
1:u:426:SER:HB2	1:u:731:THR:HG22	2.01	0.42
1:2:426:SER:HB2	1:2:731:THR:HG22	2.01	0.42
1:3:426:SER:HB2	1:3:731:THR:HG22	2.01	0.42
1:5:504:ALA:O	1:5:508:ALA:HB2	2.19	0.42
1:6:318:LEU:HB2	1:6:412:PHE:HB3	2.00	0.42
1:6:451:THR:HG21	1:7:503:PHE:CZ	2.54	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:8:419:GLU:OE2	1:8:643:LYS:N	2.52	0.42
1:E:419:GLU:OE2	1:E:643:LYS:N	2.52	0.42
1:E:427:TYR:CE1	1:E:736:ARG:HD3	2.54	0.42
1:E:627:THR:HA	1:F:610:GLN:HE22	1.85	0.42
1:H:270:THR:HG23	1:H:272:ASP:H	1.84	0.42
1:K:503:PHE:CZ	1:8:451:THR:HG21	2.54	0.42
1:M:247:THR:HB	1:M:372:VAL:HG22	2.00	0.42
1:M:250:LEU:HD13	1:M:251:PRO:O	2.20	0.42
1:M:427:TYR:CE1	1:M:736:ARG:HD3	2.54	0.42
1:M:503:PHE:CZ	1:b:451:THR:HG21	2.54	0.42
1:N:419:GLU:OE2	1:N:643:LYS:N	2.52	0.42
1:N:482:PRO:O	1:N:607:MET:HG3	2.20	0.42
1:O:426:SER:HB2	1:O:731:THR:HG22	2.02	0.42
1:P:401:PHE:CD1	1:P:401:PHE:N	2.85	0.42
1:P:419:GLU:OE2	1:P:643:LYS:N	2.52	0.42
1:Q:276:PHE:HB3	1:Q:384:ASN:HB3	2.01	0.42
1:S:245:THR:HA	1:S:681:VAL:O	2.20	0.42
1:S:426:SER:HB2	1:S:731:THR:HG22	2.01	0.42
1:V:610:GLN:HE22	1:e:627:THR:HA	1.85	0.42
1:W:270:THR:HG23	1:W:272:ASP:H	1.84	0.42
1:X:245:THR:HA	1:X:681:VAL:O	2.20	0.42
1:X:503:PHE:CZ	1:e:451:THR:HG21	2.54	0.42
1:Y:318:LEU:HB2	1:Y:412:PHE:HB3	2.00	0.42
1:a:504:ALA:O	1:a:508:ALA:HB2	2.19	0.42
1:b:245:THR:HA	1:b:681:VAL:O	2.20	0.42
1:k:419:GLU:OE2	1:k:643:LYS:N	2.52	0.42
1:p:276:PHE:HB3	1:p:384:ASN:HB3	2.01	0.42
1:q:451:THR:HG21	1:r:503:PHE:CZ	2.54	0.42
1:r:247:THR:HB	1:r:372:VAL:HG22	2.00	0.42
1:s:245:THR:HA	1:s:681:VAL:O	2.20	0.42
1:v:427:TYR:CE1	1:v:736:ARG:HD3	2.54	0.42
1:y:426:SER:HB2	1:y:731:THR:HG22	2.01	0.42
1:1:250:LEU:HD13	1:1:251:PRO:O	2.20	0.42
1:5:276:PHE:HB3	1:5:384:ASN:HB3	2.01	0.42
1:5:503:PHE:CZ	1:7:451:THR:HG21	2.54	0.42
1:5:627:THR:HA	1:7:610:GLN:HE22	1.85	0.42
1:A:401:PHE:N	1:A:401:PHE:CD1	2.85	0.42
1:A:503:PHE:CZ	1:I:451:THR:HG21	2.54	0.42
1:B:245:THR:HA	1:B:681:VAL:O	2.20	0.42
1:C:451:THR:HG21	1:b:503:PHE:CZ	2.54	0.42
1:C:504:ALA:O	1:C:508:ALA:HB2	2.19	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:504:ALA:O	1:E:508:ALA:HB2	2.19	0.42
1:F:250:LEU:HD13	1:F:251:PRO:O	2.20	0.42
1:F:482:PRO:O	1:F:607:MET:HG3	2.20	0.42
1:F:504:ALA:O	1:F:508:ALA:HB2	2.19	0.42
1:G:426:SER:HB2	1:G:731:THR:HG22	2.01	0.42
1:H:245:THR:HA	1:H:681:VAL:O	2.20	0.42
1:H:419:GLU:OE2	1:H:643:LYS:N	2.52	0.42
1:H:451:THR:HG21	1:W:503:PHE:CZ	2.54	0.42
1:H:627:THR:HA	1:Y:610:GLN:HE22	1.85	0.42
1:I:276:PHE:HB3	1:I:384:ASN:HB3	2.01	0.42
1:J:247:THR:HB	1:J:372:VAL:HG22	2.00	0.42
1:J:250:LEU:HD13	1:J:251:PRO:O	2.20	0.42
1:J:427:TYR:CE1	1:J:736:ARG:HD3	2.54	0.42
1:K:426:SER:HB2	1:K:731:THR:HG22	2.01	0.42
1:L:504:ALA:O	1:L:508:ALA:HB2	2.19	0.42
1:M:270:THR:HG23	1:M:272:ASP:H	1.84	0.42
1:N:245:THR:HA	1:N:681:VAL:O	2.20	0.42
1:P:245:THR:HA	1:P:681:VAL:O	2.20	0.42
1:R:503:PHE:CZ	1:U:451:THR:HG21	2.54	0.42
1:S:276:PHE:HB3	1:S:384:ASN:HB3	2.01	0.42
1:T:250:LEU:HD13	1:T:251:PRO:O	2.20	0.42
1:U:419:GLU:OE2	1:U:643:LYS:N	2.52	0.42
1:V:276:PHE:HB3	1:V:384:ASN:HB3	2.01	0.42
1:X:435:ARG:HD3	1:X:435:ARG:HA	1.90	0.42
1:a:250:LEU:HD13	1:a:251:PRO:O	2.20	0.42
1:a:419:GLU:OE2	1:a:643:LYS:N	2.52	0.42
1:a:482:PRO:O	1:a:607:MET:HG3	2.20	0.42
1:a:610:GLN:HE22	1:8:627:THR:HA	1.85	0.42
1:b:490:ARG:HB2	1:b:576:THR:HB	2.00	0.42
1:c:451:THR:HG21	1:o:503:PHE:CZ	2.54	0.42
1:e:247:THR:HB	1:e:372:VAL:HG22	2.00	0.42
1:e:482:PRO:O	1:e:607:MET:HG3	2.20	0.42
1:f:419:GLU:OE2	1:f:643:LYS:N	2.52	0.42
1:h:250:LEU:HD13	1:h:251:PRO:O	2.20	0.42
1:o:401:PHE:N	1:o:401:PHE:CD1	2.85	0.42
1:p:426:SER:HB2	1:p:731:THR:HG22	2.01	0.42
1:q:419:GLU:OE2	1:q:643:LYS:N	2.52	0.42
1:q:490:ARG:HB2	1:q:576:THR:HB	2.00	0.42
1:s:270:THR:HG23	1:s:272:ASP:H	1.84	0.42
1:u:245:THR:HA	1:u:681:VAL:O	2.20	0.42
1:u:276:PHE:HB3	1:u:384:ASN:HB3	2.01	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:w:247:THR:HB	1:w:372:VAL:HG22	2.00	0.42
1:w:482:PRO:O	1:w:607:MET:HG3	2.20	0.42
1:x:245:THR:HA	1:x:681:VAL:O	2.20	0.42
1:x:435:ARG:HD3	1:x:435:ARG:HA	1.90	0.42
1:z:426:SER:HB2	1:z:731:THR:HG22	2.01	0.42
1:5:419:GLU:OE2	1:5:643:LYS:N	2.52	0.42
1:7:419:GLU:OE2	1:7:643:LYS:N	2.52	0.42
1:7:427:TYR:CE1	1:7:736:ARG:HD3	2.54	0.42
1:7:504:ALA:O	1:7:508:ALA:HB2	2.19	0.42
1:8:245:THR:HA	1:8:681:VAL:O	2.20	0.42
1:B:490:ARG:HB2	1:B:576:THR:HB	2.00	0.42
1:B:504:ALA:O	1:B:508:ALA:HB2	2.19	0.42
1:C:426:SER:HB2	1:C:731:THR:HG22	2.01	0.42
1:C:435:ARG:HD2	1:b:381:LEU:HD13	2.02	0.42
1:D:381:LEU:HD13	1:P:435:ARG:HD2	2.02	0.42
1:D:426:SER:HB2	1:D:731:THR:HG22	2.01	0.42
1:E:245:THR:HA	1:E:681:VAL:O	2.20	0.42
1:E:250:LEU:HD13	1:E:251:PRO:O	2.20	0.42
1:F:627:THR:HA	1:Q:610:GLN:HE22	1.84	0.42
1:G:245:THR:HA	1:G:681:VAL:O	2.20	0.42
1:H:368:PHE:HA	1:H:369:PRO:HD3	1.92	0.42
1:I:245:THR:HA	1:I:681:VAL:O	2.20	0.42
1:J:270:THR:HG23	1:J:272:ASP:H	1.84	0.42
1:L:426:SER:HB2	1:L:731:THR:HG22	2.01	0.42
1:Q:419:GLU:OE2	1:Q:643:LYS:N	2.52	0.42
1:R:504:ALA:O	1:R:508:ALA:HB2	2.19	0.42
1:S:443:GLN:NE2	1:U:359:SER:O	2.48	0.42
1:V:419:GLU:OE2	1:V:643:LYS:N	2.52	0.42
1:W:490:ARG:HB2	1:W:576:THR:HB	2.00	0.42
1:Z:504:ALA:O	1:Z:508:ALA:HB2	2.19	0.42
1:a:245:THR:HA	1:a:681:VAL:O	2.20	0.42
1:b:504:ALA:O	1:b:508:ALA:HB2	2.19	0.42
1:c:245:THR:HA	1:c:681:VAL:O	2.20	0.42
1:c:276:PHE:HB3	1:c:384:ASN:HB3	2.01	0.42
1:c:435:ARG:HD2	1:o:381:LEU:HD13	2.02	0.42
1:c:610:GLN:HE22	1:o:627:THR:HA	1.85	0.42
1:d:250:LEU:HD13	1:d:251:PRO:O	2.20	0.42
1:e:428:ALA:N	1:e:734:LEU:O	2.42	0.42
1:f:368:PHE:HA	1:f:369:PRO:HD3	1.92	0.42
1:h:270:THR:HG23	1:h:272:ASP:H	1.84	0.42
1:j:419:GLU:OE2	1:j:643:LYS:N	2.52	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:k:250:LEU:HD13	1:k:251:PRO:O	2.20	0.42
1:l:426:SER:HB2	1:l:731:THR:HG22	2.01	0.42
1:q:318:LEU:HB2	1:q:412:PHE:HB3	2.00	0.42
1:q:473:MET:HE3	1:q:473:MET:HB2	1.88	0.42
1:q:482:PRO:O	1:q:607:MET:HG3	2.20	0.42
1:t:245:THR:HA	1:t:681:VAL:O	2.20	0.42
1:t:504:ALA:O	1:t:508:ALA:HB2	2.19	0.42
1:v:419:GLU:OE2	1:v:643:LYS:N	2.52	0.42
1:w:428:ALA:N	1:w:734:LEU:O	2.42	0.42
1:x:270:THR:HG23	1:x:272:ASP:H	1.84	0.42
1:y:504:ALA:O	1:y:508:ALA:HB2	2.19	0.42
1:z:245:THR:HA	1:z:681:VAL:O	2.20	0.42
1:3:401:PHE:N	1:3:401:PHE:CD1	2.85	0.42
1:5:245:THR:HA	1:5:681:VAL:O	2.20	0.42
1:6:482:PRO:O	1:6:607:MET:HG3	2.20	0.42
1:8:368:PHE:HA	1:8:369:PRO:HD3	1.92	0.42
1:A:627:THR:HA	1:I:610:GLN:HE22	1.85	0.42
1:B:381:LEU:HD13	1:L:435:ARG:HD2	2.02	0.42
1:B:451:THR:HG21	1:J:503:PHE:CZ	2.54	0.42
1:C:627:THR:HA	1:M:610:GLN:HE22	1.84	0.42
1:D:318:LEU:HB2	1:D:412:PHE:HB3	2.00	0.42
1:D:503:PHE:CZ	1:P:451:THR:HG21	2.55	0.42
1:E:426:SER:HB2	1:E:731:THR:HG22	2.01	0.42
1:F:245:THR:HA	1:F:681:VAL:O	2.20	0.42
1:F:490:ARG:HB2	1:F:576:THR:HB	2.00	0.42
1:I:482:PRO:O	1:I:607:MET:HG3	2.20	0.42
1:J:482:PRO:O	1:J:607:MET:HG3	2.20	0.42
1:M:482:PRO:O	1:M:607:MET:HG3	2.20	0.42
1:N:250:LEU:HD13	1:N:251:PRO:O	2.20	0.42
1:Q:245:THR:HA	1:Q:681:VAL:O	2.20	0.42
1:R:245:THR:HA	1:R:681:VAL:O	2.20	0.42
1:S:610:GLN:HE22	1:U:627:THR:HA	1.85	0.42
1:U:245:THR:HA	1:U:681:VAL:O	2.20	0.42
1:U:250:LEU:HD13	1:U:251:PRO:O	2.20	0.42
1:V:504:ALA:O	1:V:508:ALA:HB2	2.19	0.42
1:W:318:LEU:HB2	1:W:412:PHE:HB3	2.00	0.42
1:W:419:GLU:OE2	1:W:643:LYS:N	2.52	0.42
1:W:482:PRO:O	1:W:607:MET:HG3	2.20	0.42
1:X:504:ALA:O	1:X:508:ALA:HB2	2.19	0.42
1:Y:401:PHE:N	1:Y:401:PHE:CD1	2.85	0.42
1:Y:504:ALA:O	1:Y:508:ALA:HB2	2.19	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:c:482:PRO:O	1:c:607:MET:HG3	2.20	0.42
1:e:504:ALA:O	1:e:508:ALA:HB2	2.19	0.42
1:f:318:LEU:HB2	1:f:412:PHE:HB3	2.00	0.42
1:i:503:PHE:CZ	1:k:451:THR:HG21	2.54	0.42
1:l:245:THR:HA	1:l:681:VAL:O	2.20	0.42
1:m:504:ALA:O	1:m:508:ALA:HB2	2.19	0.42
1:o:318:LEU:HB2	1:o:412:PHE:HB3	2.00	0.42
1:r:250:LEU:HD13	1:r:251:PRO:O	2.20	0.42
1:r:504:ALA:O	1:r:508:ALA:HB2	2.19	0.42
1:s:427:TYR:CE1	1:s:736:ARG:HD3	2.54	0.42
1:s:504:ALA:O	1:s:508:ALA:HB2	2.19	0.42
1:u:312:LYS:HA	1:u:312:LYS:HD2	1.90	0.42
1:v:245:THR:HA	1:v:681:VAL:O	2.20	0.42
1:v:250:LEU:HD13	1:v:251:PRO:O	2.20	0.42
1:w:318:LEU:HB2	1:w:412:PHE:HB3	2.00	0.42
1:w:504:ALA:O	1:w:508:ALA:HB2	2.19	0.42
1:x:504:ALA:O	1:x:508:ALA:HB2	2.19	0.42
1:y:419:GLU:OE2	1:y:643:LYS:N	2.52	0.42
1:1:610:GLN:HE22	1:2:627:THR:HA	1.85	0.42
1:2:250:LEU:HD13	1:2:251:PRO:O	2.20	0.42
1:6:245:THR:HA	1:6:681:VAL:O	2.20	0.42
1:6:250:LEU:HD13	1:6:251:PRO:O	2.20	0.42
1:6:504:ALA:O	1:6:508:ALA:HB2	2.19	0.42
1:7:250:LEU:HD13	1:7:251:PRO:O	2.20	0.42
1:7:426:SER:HB2	1:7:731:THR:HG22	2.01	0.42
1:8:401:PHE:CD1	1:8:401:PHE:N	2.85	0.42
1:B:426:SER:HB2	1:B:731:THR:HG22	2.01	0.42
1:H:427:TYR:CE1	1:H:736:ARG:HD3	2.54	0.42
1:H:504:ALA:O	1:H:508:ALA:HB2	2.19	0.42
1:I:435:ARG:HD3	1:I:435:ARG:HA	1.90	0.42
1:K:318:LEU:HB2	1:K:412:PHE:HB3	2.00	0.42
1:O:381:LEU:HD13	1:n:435:ARG:HD2	2.02	0.42
1:Q:312:LYS:HA	1:Q:312:LYS:HD2	1.90	0.42
1:R:382:THR:CG2	1:R:394:SER:H	2.31	0.42
1:T:482:PRO:O	1:T:607:MET:HG3	2.20	0.42
1:T:627:THR:HA	1:l:610:GLN:HE22	1.85	0.42
1:b:250:LEU:HD13	1:b:251:PRO:O	2.20	0.42
1:b:270:THR:HG23	1:b:272:ASP:H	1.84	0.42
1:b:426:SER:HB2	1:b:731:THR:HG22	2.01	0.42
1:e:427:TYR:CE1	1:e:736:ARG:HD3	2.54	0.42
1:g:428:ALA:N	1:g:734:LEU:O	2.42	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:m:426:SER:HB2	1:m:731:THR:HG22	2.01	0.42
1:n:419:GLU:OE2	1:n:643:LYS:N	2.52	0.42
1:p:245:THR:HA	1:p:681:VAL:O	2.20	0.42
1:q:503:PHE:CZ	1:s:451:THR:HG21	2.54	0.42
1:s:368:PHE:HA	1:s:369:PRO:HD3	1.92	0.42
1:t:482:PRO:O	1:t:607:MET:HG3	2.20	0.42
1:t:503:PHE:CZ	1:v:451:THR:HG21	2.54	0.42
1:u:270:THR:HG23	1:u:272:ASP:H	1.84	0.42
1:w:427:TYR:CE1	1:w:736:ARG:HD3	2.54	0.42
1:w:435:ARG:HD2	1:x:381:LEU:HD13	2.02	0.42
1:y:276:PHE:HB3	1:y:384:ASN:HB3	2.01	0.42
1:1:427:TYR:CE1	1:1:736:ARG:HD3	2.54	0.42
1:4:419:GLU:OE2	1:4:643:LYS:N	2.52	0.42
1:6:490:ARG:HB2	1:6:576:THR:HB	2.00	0.42
1:6:610:GLN:HE22	1:7:627:THR:HA	1.85	0.42
1:7:245:THR:HA	1:7:681:VAL:O	2.20	0.42
1:7:451:THR:HG22	1:7:451:THR:O	2.20	0.42
1:A:245:THR:HA	1:A:681:VAL:O	2.20	0.42
1:A:318:LEU:HB2	1:A:412:PHE:HB3	2.00	0.42
1:A:381:LEU:HD13	1:I:435:ARG:HD2	2.02	0.42
1:B:250:LEU:HD13	1:B:251:PRO:O	2.20	0.42
1:B:270:THR:HG23	1:B:272:ASP:H	1.84	0.42
1:D:581:VAL:HG12	1:D:595:VAL:HB	2.02	0.42
1:E:381:LEU:HD13	1:F:435:ARG:HD2	2.02	0.42
1:E:482:PRO:O	1:E:607:MET:HG3	2.20	0.42
1:H:473:MET:HB2	1:H:473:MET:HE3	1.88	0.42
1:H:610:GLN:HE22	1:W:627:THR:HA	1.85	0.42
1:I:419:GLU:OE2	1:I:643:LYS:N	2.52	0.42
1:J:610:GLN:HE22	1:L:627:THR:HA	1.85	0.42
1:K:381:LEU:HD13	1:8:435:ARG:HD2	2.02	0.42
1:L:427:TYR:CE1	1:L:736:ARG:HD3	2.54	0.42
1:L:482:PRO:O	1:L:607:MET:HG3	2.20	0.42
1:N:427:TYR:CE1	1:N:736:ARG:HD3	2.54	0.42
1:O:504:ALA:O	1:O:508:ALA:HB2	2.19	0.42
1:P:276:PHE:HB3	1:P:384:ASN:HB3	2.01	0.42
1:Q:427:TYR:CE1	1:Q:736:ARG:HD3	2.54	0.42
1:R:482:PRO:O	1:R:607:MET:HG3	2.20	0.42
1:T:276:PHE:HB3	1:T:384:ASN:HB3	2.01	0.42
1:T:427:TYR:CE1	1:T:736:ARG:HD3	2.54	0.42
1:T:435:ARG:HD2	1:d:381:LEU:HD13	2.02	0.42
1:Y:250:LEU:HD13	1:Y:251:PRO:O	2.20	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Z:419:GLU:OE2	1:Z:643:LYS:N	2.52	0.42
1:a:427:TYR:CE1	1:a:736:ARG:HD3	2.54	0.42
1:e:250:LEU:HD13	1:e:251:PRO:O	2.20	0.42
1:f:245:THR:HA	1:f:681:VAL:O	2.20	0.42
1:f:427:TYR:CE1	1:f:736:ARG:HD3	2.54	0.42
1:g:276:PHE:HB3	1:g:384:ASN:HB3	2.01	0.42
1:k:270:THR:HG23	1:k:272:ASP:H	1.84	0.42
1:l:250:LEU:HD13	1:l:251:PRO:O	2.19	0.42
1:m:419:GLU:OE2	1:m:643:LYS:N	2.52	0.42
1:m:435:ARG:HD2	1:n:381:LEU:HD13	2.02	0.42
1:m:451:THR:O	1:m:451:THR:HG22	2.20	0.42
1:n:482:PRO:O	1:n:607:MET:HG3	2.20	0.42
1:o:245:THR:HA	1:o:681:VAL:O	2.20	0.42
1:r:401:PHE:N	1:r:401:PHE:CD1	2.85	0.42
1:s:426:SER:HB2	1:s:731:THR:HG22	2.01	0.42
1:t:382:THR:CG2	1:t:394:SER:H	2.31	0.42
1:u:419:GLU:OE2	1:u:643:LYS:N	2.52	0.42
1:u:451:THR:HG21	1:v:503:PHE:CZ	2.54	0.42
1:u:610:GLN:HE22	1:v:627:THR:HA	1.85	0.42
1:v:276:PHE:HB3	1:v:384:ASN:HB3	2.01	0.42
1:w:250:LEU:HD13	1:w:251:PRO:O	2.20	0.42
1:z:250:LEU:HD13	1:z:251:PRO:O	2.20	0.42
1:z:482:PRO:O	1:z:607:MET:HG3	2.20	0.42
1:1:276:PHE:HB3	1:1:384:ASN:HB3	2.01	0.42
1:1:435:ARG:HD2	1:2:381:LEU:HD13	2.02	0.42
1:1:482:PRO:O	1:1:607:MET:HG3	2.20	0.42
1:3:381:LEU:HD13	1:4:435:ARG:HD2	2.02	0.42
1:3:504:ALA:O	1:3:508:ALA:HB2	2.19	0.42
1:4:482:PRO:O	1:4:607:MET:HG3	2.20	0.42
1:5:610:GLN:HE22	1:6:627:THR:HA	1.85	0.42
1:6:435:ARG:HD2	1:7:381:LEU:HD13	2.02	0.42
1:7:473:MET:HE3	1:7:473:MET:HB2	1.88	0.42
1:C:427:TYR:CE1	1:C:736:ARG:HD3	2.54	0.41
1:C:482:PRO:O	1:C:607:MET:HG3	2.20	0.41
1:D:419:GLU:OE2	1:D:643:LYS:N	2.52	0.41
1:D:610:GLN:HE22	1:N:627:THR:HA	1.85	0.41
1:E:451:THR:HG22	1:E:451:THR:O	2.20	0.41
1:F:451:THR:O	1:F:451:THR:HG22	2.20	0.41
1:G:250:LEU:HD13	1:G:251:PRO:O	2.20	0.41
1:H:426:SER:HB2	1:H:731:THR:HG22	2.01	0.41
1:P:482:PRO:O	1:P:607:MET:HG3	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Q:250:LEU:HD13	1:Q:251:PRO:O	2.20	0.41
1:S:270:THR:HG23	1:S:272:ASP:H	1.84	0.41
1:S:419:GLU:OE2	1:S:643:LYS:N	2.52	0.41
1:S:451:THR:HG21	1:U:503:PHE:CZ	2.54	0.41
1:U:276:PHE:HB3	1:U:384:ASN:HB3	2.01	0.41
1:U:482:PRO:O	1:U:607:MET:HG3	2.20	0.41
1:V:245:THR:HA	1:V:681:VAL:O	2.20	0.41
1:V:270:THR:HG23	1:V:272:ASP:H	1.84	0.41
1:V:482:PRO:O	1:V:607:MET:HG3	2.20	0.41
1:X:427:TYR:CE1	1:X:736:ARG:HD3	2.54	0.41
1:X:473:MET:HB2	1:X:473:MET:HE3	1.88	0.41
1:Y:426:SER:HB2	1:Y:731:THR:HG22	2.01	0.41
1:Z:426:SER:HB2	1:Z:731:THR:HG22	2.01	0.41
1:Z:435:ARG:HD2	1:4:381:LEU:HD13	2.02	0.41
1:c:250:LEU:HD13	1:c:251:PRO:O	2.20	0.41
1:c:419:GLU:OE2	1:c:643:LYS:N	2.52	0.41
1:d:504:ALA:O	1:d:508:ALA:HB2	2.19	0.41
1:e:318:LEU:HB2	1:e:412:PHE:HB3	2.00	0.41
1:f:490:ARG:HB2	1:f:576:THR:HB	2.00	0.41
1:g:250:LEU:HD13	1:g:251:PRO:O	2.20	0.41
1:g:503:PHE:CZ	1:h:451:THR:HG21	2.54	0.41
1:g:581:VAL:HG12	1:g:595:VAL:HB	2.02	0.41
1:i:250:LEU:HD13	1:i:251:PRO:O	2.20	0.41
1:i:276:PHE:HB3	1:i:384:ASN:HB3	2.01	0.41
1:i:581:VAL:HG12	1:i:595:VAL:HB	2.02	0.41
1:j:318:LEU:HB2	1:j:412:PHE:HB3	2.00	0.41
1:j:427:TYR:CE1	1:j:736:ARG:HD3	2.54	0.41
1:l:482:PRO:O	1:l:607:MET:HG3	2.20	0.41
1:l:581:VAL:HG12	1:l:595:VAL:HB	2.02	0.41
1:q:435:ARG:HD2	1:r:381:LEU:HD13	2.02	0.41
1:q:627:THR:HA	1:s:610:GLN:HE22	1.85	0.41
1:v:482:PRO:O	1:v:607:MET:HG3	2.20	0.41
1:w:627:THR:HA	1:y:610:GLN:HE22	1.85	0.41
1:y:245:THR:HA	1:y:681:VAL:O	2.20	0.41
1:y:482:PRO:O	1:y:607:MET:HG3	2.20	0.41
1:z:581:VAL:HG12	1:z:595:VAL:HB	2.02	0.41
1:1:270:THR:HG23	1:1:272:ASP:H	1.84	0.41
1:5:250:LEU:HD13	1:5:251:PRO:O	2.20	0.41
1:5:427:TYR:CE1	1:5:736:ARG:HD3	2.54	0.41
1:6:451:THR:HG22	1:6:451:THR:O	2.20	0.41
1:7:482:PRO:O	1:7:607:MET:HG3	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:8:482:PRO:O	1:8:607:MET:HG3	2.20	0.41
1:A:435:ARG:HD2	1:G:381:LEU:HD13	2.02	0.41
1:A:610:GLN:HE22	1:G:627:THR:HA	1.85	0.41
1:B:435:ARG:HD2	1:J:381:LEU:HD13	2.02	0.41
1:D:382:THR:HG21	1:D:394:SER:N	2.28	0.41
1:F:381:LEU:HD13	1:Q:435:ARG:HD2	2.02	0.41
1:G:435:ARG:HD2	1:I:381:LEU:HD13	2.02	0.41
1:I:250:LEU:HD13	1:I:251:PRO:O	2.20	0.41
1:K:419:GLU:OE2	1:K:643:LYS:N	2.52	0.41
1:K:581:VAL:HG12	1:K:595:VAL:HB	2.03	0.41
1:L:419:GLU:OE2	1:L:643:LYS:N	2.52	0.41
1:M:381:LEU:HD13	1:b:435:ARG:HD2	2.02	0.41
1:M:504:ALA:O	1:M:508:ALA:HB2	2.19	0.41
1:O:696:ARG:HD3	1:O:700:GLU:OE2	2.21	0.41
1:P:504:ALA:O	1:P:508:ALA:HB2	2.19	0.41
1:R:419:GLU:OE2	1:R:643:LYS:N	2.52	0.41
1:R:581:VAL:HG12	1:R:595:VAL:HB	2.02	0.41
1:T:270:THR:HG23	1:T:272:ASP:H	1.84	0.41
1:W:250:LEU:HD13	1:W:251:PRO:O	2.20	0.41
1:W:473:MET:HE3	1:W:473:MET:HB2	1.88	0.41
1:X:270:THR:HG23	1:X:272:ASP:H	1.84	0.41
1:Z:245:THR:HA	1:Z:681:VAL:O	2.20	0.41
1:Z:451:THR:O	1:Z:451:THR:HG22	2.20	0.41
1:Z:581:VAL:HG12	1:Z:595:VAL:HB	2.02	0.41
1:a:435:ARG:HD2	1:8:381:LEU:HD13	2.02	0.41
1:a:451:THR:HG21	1:8:503:PHE:CZ	2.54	0.41
1:b:482:PRO:O	1:b:607:MET:HG3	2.20	0.41
1:b:696:ARG:HD3	1:b:700:GLU:OE2	2.20	0.41
1:c:381:LEU:HD13	1:p:435:ARG:HD2	2.02	0.41
1:d:435:ARG:HD2	1:l:381:LEU:HD13	2.02	0.41
1:f:482:PRO:O	1:f:607:MET:HG3	2.20	0.41
1:g:245:THR:HA	1:g:681:VAL:O	2.20	0.41
1:i:245:THR:HA	1:i:681:VAL:O	2.20	0.41
1:j:245:THR:HA	1:j:681:VAL:O	2.20	0.41
1:j:368:PHE:HA	1:j:369:PRO:HD3	1.92	0.41
1:j:482:PRO:O	1:j:607:MET:HG3	2.20	0.41
1:j:490:ARG:HB2	1:j:576:THR:HB	2.00	0.41
1:l:427:TYR:CE1	1:l:736:ARG:HD3	2.54	0.41
1:m:245:THR:HA	1:m:681:VAL:O	2.20	0.41
1:m:581:VAL:HG12	1:m:595:VAL:HB	2.02	0.41
1:m:610:GLN:HE22	1:n:627:THR:HA	1.84	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:o:435:ARG:HD2	1:p:381:LEU:HD13	2.02	0.41
1:p:250:LEU:HD13	1:p:251:PRO:O	2.20	0.41
1:q:250:LEU:HD13	1:q:251:PRO:O	2.20	0.41
1:r:426:SER:HB2	1:r:731:THR:HG22	2.01	0.41
1:t:581:VAL:HG12	1:t:595:VAL:HB	2.02	0.41
1:x:427:TYR:CE1	1:x:736:ARG:HD3	2.54	0.41
1:y:270:THR:HG23	1:y:272:ASP:H	1.84	0.41
1:z:359:SER:O	1:2:443:GLN:NE2	2.48	0.41
1:z:381:LEU:HD13	1:2:435:ARG:HD2	2.02	0.41
1:z:610:GLN:HE22	1:1:627:THR:HA	1.85	0.41
1:3:627:THR:HA	1:4:610:GLN:HE22	1.85	0.41
1:3:696:ARG:HD3	1:3:700:GLU:OE2	2.21	0.41
1:4:426:SER:HB2	1:4:731:THR:HG22	2.01	0.41
1:5:312:LYS:HA	1:5:312:LYS:HD2	1.90	0.41
1:5:435:ARG:HD2	1:6:381:LEU:HD13	2.02	0.41
1:8:276:PHE:HB3	1:8:384:ASN:HB3	2.01	0.41
1:8:504:ALA:O	1:8:508:ALA:HB2	2.19	0.41
1:A:451:THR:O	1:A:451:THR:HG22	2.20	0.41
1:B:482:PRO:O	1:B:607:MET:HG3	2.20	0.41
1:C:381:LEU:HD13	1:M:435:ARG:HD2	2.02	0.41
1:C:419:GLU:OE2	1:C:643:LYS:N	2.52	0.41
1:D:482:PRO:O	1:D:607:MET:HG3	2.20	0.41
1:F:427:TYR:CE1	1:F:736:ARG:HD3	2.54	0.41
1:J:435:ARG:HD2	1:L:381:LEU:HD13	2.02	0.41
1:J:696:ARG:HD3	1:J:700:GLU:OE2	2.21	0.41
1:K:482:PRO:O	1:K:607:MET:HG3	2.20	0.41
1:M:696:ARG:HD3	1:M:700:GLU:OE2	2.21	0.41
1:N:435:ARG:HD2	1:P:381:LEU:HD13	2.02	0.41
1:N:451:THR:HG21	1:P:503:PHE:CZ	2.54	0.41
1:N:581:VAL:HG12	1:N:595:VAL:HB	2.02	0.41
1:P:696:ARG:HD3	1:P:700:GLU:OE2	2.21	0.41
1:Q:581:VAL:HG12	1:Q:595:VAL:HB	2.03	0.41
1:S:581:VAL:HG12	1:S:595:VAL:HB	2.02	0.41
1:U:581:VAL:HG12	1:U:595:VAL:HB	2.02	0.41
1:V:381:LEU:HD13	1:X:435:ARG:HD2	2.02	0.41
1:W:435:ARG:HD2	1:Y:381:LEU:HD13	2.02	0.41
1:X:381:LEU:HD13	1:e:435:ARG:HD2	2.02	0.41
1:X:482:PRO:O	1:X:607:MET:HG3	2.20	0.41
1:a:581:VAL:HG12	1:a:595:VAL:HB	2.02	0.41
1:e:276:PHE:HB3	1:e:384:ASN:HB3	2.01	0.41
1:f:381:LEU:HD13	1:g:435:ARG:HD2	2.02	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:f:696:ARG:HD3	1:f:700:GLU:OE2	2.21	0.41
1:i:435:ARG:HD3	1:i:435:ARG:HA	1.90	0.41
1:k:451:THR:O	1:k:451:THR:HG22	2.20	0.41
1:l:696:ARG:HD3	1:l:700:GLU:OE2	2.21	0.41
1:m:428:ALA:N	1:m:734:LEU:O	2.42	0.41
1:n:426:SER:HB2	1:n:731:THR:HG22	2.01	0.41
1:o:451:THR:O	1:o:451:THR:HG22	2.20	0.41
1:p:451:THR:O	1:p:451:THR:HG22	2.20	0.41
1:t:419:GLU:OE2	1:t:643:LYS:N	2.52	0.41
1:w:503:PHE:CZ	1:y:451:THR:HG21	2.55	0.41
1:x:451:THR:HG21	1:y:503:PHE:CZ	2.55	0.41
1:x:451:THR:O	1:x:451:THR:HG22	2.20	0.41
1:z:427:TYR:CE1	1:z:736:ARG:HD3	2.54	0.41
1:2:504:ALA:O	1:2:508:ALA:HB2	2.19	0.41
1:5:581:VAL:HG12	1:5:595:VAL:HB	2.02	0.41
1:6:426:SER:HB2	1:6:731:THR:HG22	2.01	0.41
1:8:696:ARG:HD3	1:8:700:GLU:OE2	2.21	0.41
1:B:696:ARG:HD3	1:B:700:GLU:OE2	2.21	0.41
1:C:245:THR:HA	1:C:681:VAL:O	2.20	0.41
1:D:451:THR:O	1:D:451:THR:HG22	2.20	0.41
1:D:627:THR:HA	1:P:610:GLN:HE22	1.85	0.41
1:F:426:SER:HB2	1:F:731:THR:HG22	2.01	0.41
1:G:451:THR:HG22	1:G:451:THR:O	2.20	0.41
1:H:451:THR:O	1:H:451:THR:HG22	2.20	0.41
1:I:284:TYR:HB3	1:I:650:LEU:HD13	2.03	0.41
1:J:245:THR:HA	1:J:681:VAL:O	2.20	0.41
1:K:382:THR:CG2	1:K:394:SER:H	2.31	0.41
1:K:610:GLN:HE22	1:a:627:THR:HA	1.85	0.41
1:R:696:ARG:HD3	1:R:700:GLU:OE2	2.21	0.41
1:T:696:ARG:HD3	1:T:700:GLU:OE2	2.21	0.41
1:W:426:SER:HB2	1:W:731:THR:HG22	2.01	0.41
1:Y:284:TYR:HB3	1:Y:650:LEU:HD13	2.03	0.41
1:c:284:TYR:HB3	1:c:650:LEU:HD13	2.03	0.41
1:c:435:ARG:HD3	1:c:435:ARG:HA	1.90	0.41
1:g:473:MET:HB2	1:g:473:MET:HE3	1.88	0.41
1:g:482:PRO:O	1:g:607:MET:HG3	2.20	0.41
1:g:696:ARG:HD3	1:g:700:GLU:OE2	2.21	0.41
1:h:276:PHE:HB3	1:h:384:ASN:HB3	2.01	0.41
1:i:435:ARG:HD2	1:j:381:LEU:HD13	2.02	0.41
1:i:482:PRO:O	1:i:607:MET:HG3	2.20	0.41
1:i:696:ARG:HD3	1:i:700:GLU:OE2	2.21	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:j:250:LEU:HD13	1:j:251:PRO:O	2.20	0.41
1:j:451:THR:HG22	1:j:451:THR:O	2.20	0.41
1:j:696:ARG:HD3	1:j:700:GLU:OE2	2.21	0.41
1:k:276:PHE:HB3	1:k:384:ASN:HB3	2.01	0.41
1:m:696:ARG:HD3	1:m:700:GLU:OE2	2.21	0.41
1:o:482:PRO:O	1:o:607:MET:HG3	2.20	0.41
1:p:435:ARG:HD3	1:p:435:ARG:HA	1.90	0.41
1:r:284:TYR:HB3	1:r:650:LEU:HD13	2.03	0.41
1:t:696:ARG:HD3	1:t:700:GLU:OE2	2.21	0.41
1:u:581:VAL:HG12	1:u:595:VAL:HB	2.03	0.41
1:v:581:VAL:HG12	1:v:595:VAL:HB	2.02	0.41
1:w:276:PHE:HB3	1:w:384:ASN:HB3	2.01	0.41
1:w:381:LEU:HD13	1:y:435:ARG:HD2	2.02	0.41
1:w:473:MET:HE3	1:w:473:MET:HB2	1.88	0.41
1:x:482:PRO:O	1:x:607:MET:HG3	2.20	0.41
1:z:284:TYR:HB3	1:z:650:LEU:HD13	2.03	0.41
1:z:696:ARG:HD3	1:z:700:GLU:OE2	2.21	0.41
1:1:696:ARG:HD3	1:1:700:GLU:OE2	2.21	0.41
1:6:427:TYR:CE1	1:6:736:ARG:HD3	2.54	0.41
1:7:696:ARG:HD3	1:7:700:GLU:OE2	2.21	0.41
1:A:482:PRO:O	1:A:607:MET:HG3	2.20	0.41
1:D:696:ARG:HD3	1:D:700:GLU:OE2	2.21	0.41
1:E:382:THR:CG2	1:E:394:SER:H	2.31	0.41
1:E:696:ARG:HD3	1:E:700:GLU:OE2	2.21	0.41
1:F:427:TYR:CZ	1:F:736:ARG:HD3	2.56	0.41
1:J:504:ALA:O	1:J:508:ALA:HB2	2.19	0.41
1:K:627:THR:HA	1:8:610:GLN:HE22	1.85	0.41
1:K:696:ARG:HD3	1:K:700:GLU:OE2	2.21	0.41
1:M:627:THR:HA	1:b:610:GLN:HE22	1.85	0.41
1:P:451:THR:O	1:P:451:THR:HG22	2.20	0.41
1:Q:482:PRO:O	1:Q:607:MET:HG3	2.20	0.41
1:R:428:ALA:N	1:R:734:LEU:O	2.42	0.41
1:R:451:THR:O	1:R:451:THR:HG22	2.20	0.41
1:S:451:THR:O	1:S:451:THR:HG22	2.20	0.41
1:U:696:ARG:HD3	1:U:700:GLU:OE2	2.21	0.41
1:V:435:ARG:HD2	1:e:381:LEU:HD13	2.02	0.41
1:W:696:ARG:HD3	1:W:700:GLU:OE2	2.21	0.41
1:X:451:THR:O	1:X:451:THR:HG22	2.20	0.41
1:Z:482:PRO:O	1:Z:607:MET:HG3	2.20	0.41
1:d:443:GLN:NE2	1:l:359:SER:O	2.48	0.41
1:e:245:THR:HA	1:e:681:VAL:O	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:f:250:LEU:HD13	1:f:251:PRO:O	2.20	0.41
1:f:451:THR:O	1:f:451:THR:HG22	2.20	0.41
1:h:245:THR:HA	1:h:681:VAL:O	2.20	0.41
1:h:451:THR:O	1:h:451:THR:HG22	2.20	0.41
1:i:381:LEU:HD13	1:k:435:ARG:HD2	2.02	0.41
1:j:284:TYR:HB3	1:j:650:LEU:HD13	2.03	0.41
1:l:284:TYR:HB3	1:l:650:LEU:HD13	2.03	0.41
1:l:427:TYR:CZ	1:l:736:ARG:HD3	2.56	0.41
1:n:473:MET:HE3	1:n:473:MET:HB2	1.88	0.41
1:o:610:GLN:HE22	1:p:627:THR:HA	1.85	0.41
1:p:482:PRO:O	1:p:607:MET:HG3	2.20	0.41
1:q:426:SER:HB2	1:q:731:THR:HG22	2.01	0.41
1:r:245:THR:HA	1:r:681:VAL:O	2.20	0.41
1:r:382:THR:HG21	1:r:394:SER:N	2.28	0.41
1:s:473:MET:HB2	1:s:473:MET:HE3	1.88	0.41
1:t:428:ALA:N	1:t:734:LEU:O	2.42	0.41
1:w:245:THR:HA	1:w:681:VAL:O	2.20	0.41
1:y:250:LEU:HD13	1:y:251:PRO:O	2.20	0.41
1:y:368:PHE:HA	1:y:369:PRO:HD3	1.92	0.41
1:y:401:PHE:N	1:y:401:PHE:CD1	2.85	0.41
1:z:427:TYR:CZ	1:z:736:ARG:HD3	2.56	0.41
1:5:482:PRO:O	1:5:607:MET:HG3	2.20	0.41
1:6:427:TYR:CZ	1:6:736:ARG:HD3	2.56	0.41
1:A:284:TYR:HB3	1:A:650:LEU:HD13	2.03	0.41
1:B:610:GLN:HE22	1:J:627:THR:HA	1.85	0.41
1:J:451:THR:O	1:J:451:THR:HG22	2.20	0.41
1:K:382:THR:HG21	1:K:394:SER:N	2.28	0.41
1:L:245:THR:HA	1:L:681:VAL:O	2.20	0.41
1:L:696:ARG:HD3	1:L:700:GLU:OE2	2.21	0.41
1:M:245:THR:HA	1:M:681:VAL:O	2.20	0.41
1:O:482:PRO:O	1:O:607:MET:HG3	2.20	0.41
1:P:284:TYR:HB3	1:P:650:LEU:HD13	2.03	0.41
1:P:581:VAL:HG12	1:P:595:VAL:HB	2.02	0.41
1:Q:696:ARG:HD3	1:Q:700:GLU:OE2	2.21	0.41
1:R:381:LEU:HD13	1:U:435:ARG:HD2	2.02	0.41
1:V:250:LEU:HD13	1:V:251:PRO:O	2.20	0.41
1:V:401:PHE:N	1:V:401:PHE:CD1	2.85	0.41
1:V:451:THR:HG21	1:e:503:PHE:CZ	2.55	0.41
1:X:696:ARG:HD3	1:X:700:GLU:OE2	2.21	0.41
1:Y:245:THR:HA	1:Y:681:VAL:O	2.20	0.41
1:Y:451:THR:O	1:Y:451:THR:HG22	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Z:610:GLN:HE22	1:4:627:THR:HA	1.85	0.41
1:Z:696:ARG:HD3	1:Z:700:GLU:OE2	2.21	0.41
1:d:245:THR:HA	1:d:681:VAL:O	2.20	0.41
1:e:426:SER:HB2	1:e:731:THR:HG22	2.01	0.41
1:e:451:THR:O	1:e:451:THR:HG22	2.20	0.41
1:f:284:TYR:HB3	1:f:650:LEU:HD13	2.03	0.41
1:i:419:GLU:OE2	1:i:643:LYS:N	2.52	0.41
1:n:427:TYR:CZ	1:n:736:ARG:HD3	2.56	0.41
1:n:428:ALA:N	1:n:734:LEU:O	2.42	0.41
1:n:696:ARG:HD3	1:n:700:GLU:OE2	2.21	0.41
1:s:451:THR:O	1:s:451:THR:HG22	2.20	0.41
1:t:451:THR:O	1:t:451:THR:HG22	2.20	0.41
1:u:451:THR:O	1:u:451:THR:HG22	2.20	0.41
1:v:696:ARG:HD3	1:v:700:GLU:OE2	2.21	0.41
1:w:426:SER:HB2	1:w:731:THR:HG22	2.01	0.41
1:w:696:ARG:HD3	1:w:700:GLU:OE2	2.21	0.41
1:x:284:TYR:HB3	1:x:650:LEU:HD13	2.03	0.41
1:x:473:MET:HB2	1:x:473:MET:HE3	1.88	0.41
1:x:696:ARG:HD3	1:x:700:GLU:OE2	2.21	0.41
1:4:696:ARG:HD3	1:4:700:GLU:OE2	2.21	0.41
1:7:284:TYR:HB3	1:7:650:LEU:HD13	2.03	0.41
1:8:581:VAL:HG12	1:8:595:VAL:HB	2.02	0.41
1:B:581:VAL:HG12	1:B:595:VAL:HB	2.02	0.41
1:C:368:PHE:HA	1:C:369:PRO:HD3	1.92	0.41
1:C:696:ARG:HD3	1:C:700:GLU:OE2	2.21	0.41
1:E:284:TYR:HB3	1:E:650:LEU:HD13	2.03	0.41
1:G:482:PRO:O	1:G:607:MET:HG3	2.20	0.41
1:I:696:ARG:HD3	1:I:700:GLU:OE2	2.21	0.41
1:K:451:THR:O	1:K:451:THR:HG22	2.20	0.41
1:S:427:TYR:CZ	1:S:736:ARG:HD3	2.56	0.41
1:T:451:THR:HG22	1:T:451:THR:O	2.20	0.41
1:U:284:TYR:HB3	1:U:650:LEU:HD13	2.03	0.41
1:X:284:TYR:HB3	1:X:650:LEU:HD13	2.03	0.41
1:Y:368:PHE:HA	1:Y:369:PRO:HD3	1.92	0.41
1:Y:544:MET:HG2	1:Y:562:LEU:HD23	2.03	0.41
1:Y:696:ARG:HD3	1:Y:700:GLU:OE2	2.21	0.41
1:Z:428:ALA:N	1:Z:734:LEU:O	2.42	0.41
1:c:696:ARG:HD3	1:c:700:GLU:OE2	2.21	0.41
1:d:451:THR:HG22	1:d:451:THR:O	2.20	0.41
1:d:610:GLN:HE22	1:l:627:THR:HA	1.85	0.41
1:e:696:ARG:HD3	1:e:700:GLU:OE2	2.21	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:g:419:GLU:OE2	1:g:643:LYS:N	2.52	0.41
1:g:426:SER:HB2	1:g:731:THR:HG22	2.01	0.41
1:g:435:ARG:HD3	1:g:435:ARG:HA	1.90	0.41
1:g:544:MET:HG2	1:g:562:LEU:HD23	2.03	0.41
1:h:482:PRO:O	1:h:607:MET:HG3	2.20	0.41
1:i:426:SER:HB2	1:i:731:THR:HG22	2.01	0.41
1:k:245:THR:HA	1:k:681:VAL:O	2.20	0.41
1:m:427:TYR:CZ	1:m:736:ARG:HD3	2.56	0.41
1:n:544:MET:HG2	1:n:562:LEU:HD23	2.03	0.41
1:o:284:TYR:HB3	1:o:650:LEU:HD13	2.03	0.41
1:q:245:THR:HA	1:q:681:VAL:O	2.20	0.41
1:q:696:ARG:HD3	1:q:700:GLU:OE2	2.21	0.41
1:r:451:THR:O	1:r:451:THR:HG22	2.21	0.41
1:r:482:PRO:O	1:r:607:MET:HG3	2.20	0.41
1:r:696:ARG:HD3	1:r:700:GLU:OE2	2.21	0.41
1:u:427:TYR:CZ	1:u:736:ARG:HD3	2.56	0.41
1:u:435:ARG:HD2	1:v:381:LEU:HD13	2.02	0.41
1:u:482:PRO:O	1:u:607:MET:HG3	2.20	0.41
1:v:284:TYR:HB3	1:v:650:LEU:HD13	2.03	0.41
1:x:250:LEU:HD13	1:x:251:PRO:O	2.20	0.41
1:x:427:TYR:CZ	1:x:736:ARG:HD3	2.56	0.41
1:z:435:ARG:HD2	1:1:381:LEU:HD13	2.02	0.41
1:2:245:THR:HA	1:2:681:VAL:O	2.20	0.41
1:2:284:TYR:HB3	1:2:650:LEU:HD13	2.03	0.41
1:4:250:LEU:HD13	1:4:251:PRO:O	2.20	0.41
1:4:284:TYR:HB3	1:4:650:LEU:HD13	2.03	0.41
1:4:427:TYR:CZ	1:4:736:ARG:HD3	2.56	0.41
1:4:581:VAL:HG12	1:4:595:VAL:HB	2.02	0.41
1:5:696:ARG:HD3	1:5:700:GLU:OE2	2.21	0.41
1:7:427:TYR:CZ	1:7:736:ARG:HD3	2.56	0.41
1:8:284:TYR:HB3	1:8:650:LEU:HD13	2.03	0.41
1:8:451:THR:O	1:8:451:THR:HG22	2.20	0.41
1:B:451:THR:O	1:B:451:THR:HG22	2.20	0.41
1:B:473:MET:HB2	1:B:473:MET:HE3	1.88	0.41
1:C:581:VAL:HG12	1:C:595:VAL:HB	2.02	0.41
1:E:427:TYR:CZ	1:E:736:ARG:HD3	2.56	0.41
1:F:696:ARG:HD3	1:F:700:GLU:OE2	2.21	0.41
1:I:368:PHE:HA	1:I:369:PRO:HD3	1.92	0.41
1:L:250:LEU:HD13	1:L:251:PRO:O	2.20	0.41
1:L:312:LYS:HA	1:L:312:LYS:HD2	1.90	0.41
1:N:451:THR:O	1:N:451:THR:HG22	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:544:MET:HG2	1:N:562:LEU:HD23	2.03	0.41
1:T:381:LEU:HD13	1:l:435:ARG:HD2	2.02	0.41
1:V:451:THR:O	1:V:451:THR:HG22	2.20	0.41
1:W:245:THR:HA	1:W:681:VAL:O	2.20	0.41
1:W:427:TYR:CZ	1:W:736:ARG:HD3	2.56	0.41
1:X:250:LEU:HD13	1:X:251:PRO:O	2.20	0.41
1:X:427:TYR:CZ	1:X:736:ARG:HD3	2.56	0.41
1:Y:482:PRO:O	1:Y:607:MET:HG3	2.20	0.41
1:c:451:THR:O	1:c:451:THR:HG22	2.20	0.41
1:d:284:TYR:HB3	1:d:650:LEU:HD13	2.03	0.41
1:f:581:VAL:HG12	1:f:595:VAL:HB	2.02	0.41
1:g:381:LEU:HD13	1:h:435:ARG:HD2	2.02	0.41
1:i:544:MET:HG2	1:i:562:LEU:HD23	2.03	0.41
1:m:382:THR:CG2	1:m:394:SER:H	2.31	0.41
1:m:482:PRO:O	1:m:607:MET:HG3	2.20	0.41
1:n:284:TYR:HB3	1:n:650:LEU:HD13	2.03	0.41
1:n:581:VAL:HG12	1:n:595:VAL:HB	2.02	0.41
1:q:427:TYR:CZ	1:q:736:ARG:HD3	2.56	0.41
1:s:482:PRO:O	1:s:607:MET:HG3	2.20	0.41
1:u:368:PHE:HA	1:u:369:PRO:HD3	1.92	0.41
1:w:451:THR:HG22	1:w:451:THR:O	2.20	0.41
1:y:451:THR:O	1:y:451:THR:HG22	2.20	0.41
1:1:451:THR:HG22	1:1:451:THR:O	2.20	0.41
1:2:451:THR:O	1:2:451:THR:HG22	2.20	0.41
1:2:482:PRO:O	1:2:607:MET:HG3	2.20	0.41
1:3:368:PHE:HA	1:3:369:PRO:HD3	1.92	0.41
1:3:482:PRO:O	1:3:607:MET:HG3	2.20	0.41
1:4:473:MET:HE3	1:4:473:MET:HB2	1.88	0.41
1:4:544:MET:HG2	1:4:562:LEU:HD23	2.03	0.41
1:6:696:ARG:HD3	1:6:700:GLU:OE2	2.21	0.41
1:A:696:ARG:HD3	1:A:700:GLU:OE2	2.21	0.41
1:B:419:GLU:OE2	1:B:643:LYS:N	2.52	0.41
1:B:427:TYR:CZ	1:B:736:ARG:HD3	2.56	0.41
1:C:250:LEU:HD13	1:C:251:PRO:O	2.20	0.41
1:C:284:TYR:HB3	1:C:650:LEU:HD13	2.03	0.41
1:C:312:LYS:HA	1:C:312:LYS:HD2	1.90	0.41
1:C:427:TYR:CZ	1:C:736:ARG:HD3	2.56	0.41
1:C:451:THR:O	1:C:451:THR:HG22	2.20	0.41
1:D:245:THR:HA	1:D:681:VAL:O	2.20	0.41
1:E:544:MET:HG2	1:E:562:LEU:HD23	2.03	0.41
1:F:382:THR:HG21	1:F:394:SER:N	2.28	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:435:ARG:HD3	1:G:435:ARG:HA	1.90	0.41
1:H:381:LEU:HD13	1:Y:435:ARG:HD2	2.02	0.41
1:H:482:PRO:O	1:H:607:MET:HG3	2.20	0.41
1:I:451:THR:O	1:I:451:THR:HG22	2.20	0.41
1:I:581:VAL:HG12	1:I:595:VAL:HB	2.02	0.41
1:J:427:TYR:CZ	1:J:736:ARG:HD3	2.56	0.41
1:J:544:MET:HG2	1:J:562:LEU:HD23	2.03	0.41
1:J:581:VAL:HG12	1:J:595:VAL:HB	2.02	0.41
1:K:245:THR:HA	1:K:681:VAL:O	2.20	0.41
1:K:427:TYR:CZ	1:K:736:ARG:HD3	2.56	0.41
1:K:435:ARG:HA	1:K:435:ARG:HD3	1.90	0.41
1:L:427:TYR:CZ	1:L:736:ARG:HD3	2.56	0.41
1:M:451:THR:O	1:M:451:THR:HG22	2.20	0.41
1:O:368:PHE:HA	1:O:369:PRO:HD3	1.92	0.41
1:P:544:MET:HG2	1:P:562:LEU:HD23	2.03	0.41
1:R:284:TYR:HB3	1:R:650:LEU:HD13	2.03	0.41
1:R:544:MET:HG2	1:R:562:LEU:HD23	2.03	0.41
1:S:428:ALA:N	1:S:734:LEU:O	2.42	0.41
1:S:435:ARG:HD2	1:U:381:LEU:HD13	2.02	0.41
1:S:482:PRO:O	1:S:607:MET:HG3	2.20	0.41
1:T:245:THR:HA	1:T:681:VAL:O	2.20	0.41
1:V:284:TYR:HB3	1:V:650:LEU:HD13	2.03	0.41
1:V:368:PHE:HA	1:V:369:PRO:HD3	1.92	0.41
1:X:382:THR:CG2	1:X:394:SER:H	2.31	0.41
1:Y:382:THR:HG21	1:Y:394:SER:N	2.28	0.41
1:Y:427:TYR:CZ	1:Y:736:ARG:HD3	2.56	0.41
1:Z:427:TYR:CZ	1:Z:736:ARG:HD3	2.56	0.41
1:Z:434:ASP:HB2	1:Z:478:LYS:HE2	2.03	0.41
1:Z:435:ARG:HD3	1:Z:435:ARG:HA	1.90	0.41
1:a:451:THR:O	1:a:451:THR:HG22	2.20	0.41
1:a:544:MET:HG2	1:a:562:LEU:HD23	2.03	0.41
1:b:401:PHE:N	1:b:401:PHE:CD1	2.85	0.41
1:b:419:GLU:OE2	1:b:643:LYS:N	2.52	0.41
1:b:427:TYR:CZ	1:b:736:ARG:HD3	2.56	0.41
1:b:451:THR:O	1:b:451:THR:HG22	2.20	0.41
1:b:581:VAL:HG12	1:b:595:VAL:HB	2.02	0.41
1:c:368:PHE:HA	1:c:369:PRO:HD3	1.92	0.41
1:c:544:MET:HG2	1:c:562:LEU:HD23	2.03	0.41
1:c:581:VAL:HG12	1:c:595:VAL:HB	2.02	0.41
1:c:627:THR:HA	1:p:610:GLN:HE22	1.85	0.41
1:d:427:TYR:CZ	1:d:736:ARG:HD3	2.56	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:d:482:PRO:O	1:d:607:MET:HG3	2.20	0.41
1:d:696:ARG:HD3	1:d:700:GLU:OE2	2.21	0.41
1:e:419:GLU:OE2	1:e:643:LYS:N	2.52	0.41
1:e:473:MET:HE3	1:e:473:MET:HB2	1.88	0.41
1:g:368:PHE:HA	1:g:369:PRO:HD3	1.92	0.41
1:i:427:TYR:CZ	1:i:736:ARG:HD3	2.56	0.41
1:i:473:MET:HB2	1:i:473:MET:HE3	1.88	0.41
1:j:581:VAL:HG12	1:j:595:VAL:HB	2.02	0.41
1:k:427:TYR:CZ	1:k:736:ARG:HD3	2.56	0.41
1:k:482:PRO:O	1:k:607:MET:HG3	2.20	0.41
1:l:428:ALA:N	1:l:734:LEU:O	2.42	0.41
1:n:245:THR:HA	1:n:681:VAL:O	2.20	0.41
1:n:250:LEU:HD13	1:n:251:PRO:O	2.20	0.41
1:r:435:ARG:HD2	1:s:381:LEU:HD13	2.02	0.41
1:r:544:MET:HG2	1:r:562:LEU:HD23	2.03	0.41
1:s:427:TYR:CZ	1:s:736:ARG:HD3	2.56	0.41
1:t:284:TYR:HB3	1:t:650:LEU:HD13	2.03	0.41
1:t:381:LEU:HD13	1:v:435:ARG:HD2	2.02	0.41
1:t:544:MET:HG2	1:t:562:LEU:HD23	2.03	0.41
1:w:419:GLU:OE2	1:w:643:LYS:N	2.52	0.41
1:w:451:THR:HG21	1:x:503:PHE:CZ	2.56	0.41
1:z:627:THR:HA	1:2:610:GLN:HE22	1.85	0.41
1:1:245:THR:HA	1:1:681:VAL:O	2.20	0.41
1:2:368:PHE:HA	1:2:369:PRO:HD3	1.92	0.41
1:2:427:TYR:CZ	1:2:736:ARG:HD3	2.56	0.41
1:2:696:ARG:HD3	1:2:700:GLU:OE2	2.21	0.41
1:4:245:THR:HA	1:4:681:VAL:O	2.20	0.41
1:4:428:ALA:N	1:4:734:LEU:O	2.42	0.41
1:5:381:LEU:HD13	1:7:435:ARG:HD2	2.02	0.41
1:D:427:TYR:CZ	1:D:736:ARG:HD3	2.56	0.41
1:D:435:ARG:HA	1:D:435:ARG:HD3	1.90	0.41
1:D:435:ARG:HD2	1:N:381:LEU:HD13	2.02	0.41
1:G:434:ASP:HB2	1:G:478:LYS:HE2	2.03	0.41
1:G:610:GLN:HE22	1:I:627:THR:HA	1.85	0.41
1:H:250:LEU:HD13	1:H:251:PRO:O	2.20	0.41
1:H:427:TYR:CZ	1:H:736:ARG:HD3	2.56	0.41
1:H:452:GLN:HE21	1:H:459:GLY:CA	2.34	0.41
1:I:427:TYR:CZ	1:I:736:ARG:HD3	2.56	0.41
1:I:544:MET:HG2	1:I:562:LEU:HD23	2.03	0.41
1:L:368:PHE:HA	1:L:369:PRO:HD3	1.92	0.41
1:L:581:VAL:HG12	1:L:595:VAL:HB	2.03	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:427:TYR:CZ	1:M:736:ARG:HD3	2.56	0.41
1:M:544:MET:HG2	1:M:562:LEU:HD23	2.03	0.41
1:N:696:ARG:HD3	1:N:700:GLU:OE2	2.21	0.41
1:P:427:TYR:CZ	1:P:736:ARG:HD3	2.56	0.41
1:T:581:VAL:HG12	1:T:595:VAL:HB	2.02	0.41
1:W:284:TYR:HB3	1:W:650:LEU:HD13	2.03	0.41
1:W:434:ASP:HB2	1:W:478:LYS:HE2	2.03	0.41
1:X:627:THR:HA	1:e:610:GLN:HE22	1.84	0.41
1:Z:250:LEU:HD13	1:Z:251:PRO:O	2.20	0.41
1:c:427:TYR:CZ	1:c:736:ARG:HD3	2.56	0.41
1:f:544:MET:HG2	1:f:562:LEU:HD23	2.03	0.41
1:g:427:TYR:CZ	1:g:736:ARG:HD3	2.56	0.41
1:h:427:TYR:CZ	1:h:736:ARG:HD3	2.56	0.41
1:j:427:TYR:CZ	1:j:736:ARG:HD3	2.56	0.41
1:j:544:MET:HG2	1:j:562:LEU:HD23	2.03	0.41
1:l:544:MET:HG2	1:l:562:LEU:HD23	2.03	0.41
1:m:250:LEU:HD13	1:m:251:PRO:O	2.20	0.41
1:p:434:ASP:HB2	1:p:478:LYS:HE2	2.03	0.41
1:q:284:TYR:HB3	1:q:650:LEU:HD13	2.03	0.41
1:r:427:TYR:CZ	1:r:736:ARG:HD3	2.56	0.41
1:s:250:LEU:HD13	1:s:251:PRO:O	2.20	0.41
1:u:435:ARG:HA	1:u:435:ARG:HD3	1.90	0.41
1:x:382:THR:CG2	1:x:394:SER:H	2.31	0.41
1:x:440:LEU:HD21	1:y:279:SER:HB3	2.03	0.41
1:y:284:TYR:HB3	1:y:650:LEU:HD13	2.03	0.41
1:y:581:VAL:HG12	1:y:595:VAL:HB	2.02	0.41
1:z:544:MET:HG2	1:z:562:LEU:HD23	2.03	0.41
1:1:581:VAL:HG12	1:1:595:VAL:HB	2.02	0.41
1:3:245:THR:HA	1:3:681:VAL:O	2.20	0.41
1:4:451:THR:HG22	1:4:451:THR:O	2.20	0.41
1:8:427:TYR:CZ	1:8:736:ARG:HD3	2.56	0.41
1:8:544:MET:HG2	1:8:562:LEU:HD23	2.03	0.41
1:B:401:PHE:N	1:B:401:PHE:CD1	2.85	0.40
1:E:435:ARG:HD2	1:Q:381:LEU:HD13	2.02	0.40
1:E:709:LYS:HZ1	1:P:532:ASP:CG	2.29	0.40
1:H:258:TYR:OH	1:H:399:GLU:OE1	2.23	0.40
1:K:435:ARG:HD2	1:a:381:LEU:HD13	2.02	0.40
1:L:284:TYR:HB3	1:L:650:LEU:HD13	2.03	0.40
1:M:581:VAL:HG12	1:M:595:VAL:HB	2.03	0.40
1:O:245:THR:HA	1:O:681:VAL:O	2.20	0.40
1:V:581:VAL:HG12	1:V:595:VAL:HB	2.02	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Z:382:THR:CG2	1:Z:394:SER:H	2.31	0.40
1:a:696:ARG:HD3	1:a:700:GLU:OE2	2.21	0.40
1:b:473:MET:HB2	1:b:473:MET:HE3	1.88	0.40
1:c:426:SER:HB2	1:c:731:THR:HG22	2.01	0.40
1:f:427:TYR:CZ	1:f:736:ARG:HD3	2.56	0.40
1:m:284:TYR:HB3	1:m:650:LEU:HD13	2.03	0.40
1:n:451:THR:HG22	1:n:451:THR:O	2.20	0.40
1:o:427:TYR:CZ	1:o:736:ARG:HD3	2.56	0.40
1:o:696:ARG:HD3	1:o:700:GLU:OE2	2.21	0.40
1:q:381:LEU:HD13	1:s:435:ARG:HD2	2.02	0.40
1:q:434:ASP:HB2	1:q:478:LYS:HE2	2.03	0.40
1:q:451:THR:O	1:q:451:THR:HG22	2.20	0.40
1:s:452:GLN:HE21	1:s:459:GLY:CA	2.35	0.40
1:u:623:LYS:HB2	1:u:645:PRO:HG3	2.04	0.40
1:1:284:TYR:HB3	1:1:650:LEU:HD13	2.03	0.40
1:2:452:GLN:HE21	1:2:459:GLY:CA	2.34	0.40
1:7:544:MET:HG2	1:7:562:LEU:HD23	2.03	0.40
1:A:427:TYR:CZ	1:A:736:ARG:HD3	2.56	0.40
1:A:581:VAL:HG12	1:A:595:VAL:HB	2.02	0.40
1:B:434:ASP:HB2	1:B:478:LYS:HE2	2.03	0.40
1:B:627:THR:HA	1:L:610:GLN:HE22	1.85	0.40
1:D:544:MET:HG2	1:D:562:LEU:HD23	2.03	0.40
1:H:284:TYR:HB3	1:H:650:LEU:HD13	2.03	0.40
1:H:435:ARG:HD2	1:W:381:LEU:HD13	2.02	0.40
1:K:544:MET:HG2	1:K:562:LEU:HD23	2.03	0.40
1:L:451:THR:HG22	1:L:451:THR:O	2.21	0.40
1:O:610:GLN:HE22	1:m:627:THR:HA	1.84	0.40
1:Q:452:GLN:HE21	1:Q:459:GLY:CA	2.34	0.40
1:R:435:ARG:HD2	1:S:381:LEU:HD13	2.02	0.40
1:S:532:ASP:CG	1:T:709:LYS:HZ1	2.30	0.40
1:S:544:MET:HG2	1:S:562:LEU:HD23	2.03	0.40
1:S:623:LYS:HB2	1:S:645:PRO:HG3	2.04	0.40
1:T:284:TYR:HB3	1:T:650:LEU:HD13	2.03	0.40
1:U:451:THR:O	1:U:451:THR:HG22	2.20	0.40
1:W:452:GLN:HE21	1:W:459:GLY:CA	2.34	0.40
1:Z:284:TYR:HB3	1:Z:650:LEU:HD13	2.03	0.40
1:a:473:MET:HB2	1:a:473:MET:HE3	1.88	0.40
1:b:434:ASP:HB2	1:b:478:LYS:HE2	2.03	0.40
1:b:452:GLN:HE21	1:b:459:GLY:CA	2.34	0.40
1:c:600:SER:HG	1:p:601:GLN:HE22	1.63	0.40
1:d:452:GLN:HE21	1:d:459:GLY:CA	2.34	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:d:581:VAL:HG12	1:d:595:VAL:HB	2.02	0.40
1:e:532:ASP:CG	1:f:709:LYS:HZ1	2.30	0.40
1:i:368:PHE:HA	1:i:369:PRO:HD3	1.92	0.40
1:m:434:ASP:HB2	1:m:478:LYS:HE2	2.04	0.40
1:q:452:GLN:HE21	1:q:459:GLY:CA	2.35	0.40
1:t:435:ARG:HD2	1:u:381:LEU:HD13	2.02	0.40
1:u:428:ALA:N	1:u:734:LEU:O	2.42	0.40
1:u:544:MET:HG2	1:u:562:LEU:HD23	2.03	0.40
1:v:451:THR:O	1:v:451:THR:HG22	2.20	0.40
1:y:696:ARG:HD3	1:y:700:GLU:OE2	2.21	0.40
1:z:428:ALA:N	1:z:734:LEU:O	2.42	0.40
1:z:434:ASP:HB2	1:z:478:LYS:HE2	2.03	0.40
1:2:581:VAL:HG12	1:2:595:VAL:HB	2.02	0.40
1:3:451:THR:O	1:3:451:THR:HG22	2.20	0.40
1:5:451:THR:O	1:5:451:THR:HG22	2.20	0.40
1:7:623:LYS:HB2	1:7:645:PRO:HG3	2.04	0.40
1:B:368:PHE:HA	1:B:369:PRO:HD3	1.92	0.40
1:C:382:THR:HG21	1:C:394:SER:N	2.28	0.40
1:C:623:LYS:HB2	1:C:645:PRO:HG3	2.04	0.40
1:E:623:LYS:HB2	1:E:645:PRO:HG3	2.04	0.40
1:G:601:GLN:HE22	1:I:600:SER:HG	1.63	0.40
1:L:623:LYS:HB2	1:L:645:PRO:HG3	2.04	0.40
1:O:451:THR:HG22	1:O:451:THR:O	2.20	0.40
1:Q:368:PHE:HA	1:Q:369:PRO:HD3	1.92	0.40
1:Q:428:ALA:N	1:Q:734:LEU:O	2.42	0.40
1:R:434:ASP:HB2	1:R:478:LYS:HE2	2.03	0.40
1:S:435:ARG:HA	1:S:435:ARG:HD3	1.90	0.40
1:U:232:ASP:H	1:U:243:THR:HG23	1.87	0.40
1:U:427:TYR:CZ	1:U:736:ARG:HD3	2.56	0.40
1:W:232:ASP:H	1:W:243:THR:HG23	1.87	0.40
1:X:434:ASP:HB2	1:X:478:LYS:HE2	2.03	0.40
1:Y:452:GLN:HE21	1:Y:459:GLY:CA	2.35	0.40
1:a:427:TYR:CZ	1:a:736:ARG:HD3	2.56	0.40
1:b:428:ALA:N	1:b:734:LEU:O	2.42	0.40
1:e:427:TYR:CZ	1:e:736:ARG:HD3	2.56	0.40
1:e:709:LYS:HZ1	1:f:532:ASP:CG	2.29	0.40
1:j:709:LYS:HZ1	1:w:532:ASP:CG	2.30	0.40
1:l:434:ASP:HB2	1:l:478:LYS:HE2	2.03	0.40
1:m:435:ARG:HD3	1:m:435:ARG:HA	1.90	0.40
1:o:581:VAL:HG12	1:o:595:VAL:HB	2.02	0.40
1:p:398:LEU:HA	1:p:398:LEU:HD23	1.92	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:r:452:GLN:HE21	1:r:459:GLY:CA	2.34	0.40
1:s:284:TYR:HB3	1:s:650:LEU:HD13	2.03	0.40
1:v:232:ASP:H	1:v:243:THR:HG23	1.87	0.40
1:v:427:TYR:CZ	1:v:736:ARG:HD3	2.56	0.40
1:w:581:VAL:HG12	1:w:595:VAL:HB	2.02	0.40
1:x:434:ASP:HB2	1:x:478:LYS:HE2	2.03	0.40
1:1:623:LYS:HB2	1:1:645:PRO:HG3	2.04	0.40
1:5:452:GLN:HE21	1:5:459:GLY:CA	2.35	0.40
1:5:544:MET:HG2	1:5:562:LEU:HD23	2.03	0.40
1:8:695:LYS:HA	1:8:695:LYS:HD2	1.95	0.40
1:B:452:GLN:HE21	1:B:459:GLY:CA	2.35	0.40
1:E:532:ASP:CG	1:P:709:LYS:HZ1	2.29	0.40
1:E:581:VAL:HG12	1:E:595:VAL:HB	2.02	0.40
1:F:419:GLU:OE2	1:F:643:LYS:N	2.52	0.40
1:G:398:LEU:HA	1:G:398:LEU:HD23	1.92	0.40
1:I:426:SER:HB2	1:I:731:THR:HG22	2.01	0.40
1:J:368:PHE:HA	1:J:369:PRO:HD3	1.92	0.40
1:L:452:GLN:HE21	1:L:459:GLY:CA	2.35	0.40
1:N:427:TYR:CZ	1:N:736:ARG:HD3	2.56	0.40
1:Q:451:THR:O	1:Q:451:THR:HG22	2.20	0.40
1:Q:544:MET:HG2	1:Q:562:LEU:HD23	2.03	0.40
1:S:368:PHE:HA	1:S:369:PRO:HD3	1.92	0.40
1:T:419:GLU:OE2	1:T:643:LYS:N	2.52	0.40
1:T:623:LYS:HB2	1:T:645:PRO:HG3	2.04	0.40
1:V:696:ARG:HD3	1:V:700:GLU:OE2	2.21	0.40
1:W:451:THR:O	1:W:451:THR:HG22	2.20	0.40
1:Y:581:VAL:HG12	1:Y:595:VAL:HB	2.02	0.40
1:d:232:ASP:H	1:d:243:THR:HG23	1.87	0.40
1:d:368:PHE:HA	1:d:369:PRO:HD3	1.92	0.40
1:d:419:GLU:OE2	1:d:643:LYS:N	2.52	0.40
1:d:532:ASP:CG	1:n:709:LYS:HZ1	2.30	0.40
1:e:284:TYR:HB3	1:e:650:LEU:HD13	2.03	0.40
1:e:581:VAL:HG12	1:e:595:VAL:HB	2.02	0.40
1:h:434:ASP:HB2	1:h:478:LYS:HE2	2.03	0.40
1:i:284:TYR:HB3	1:i:650:LEU:HD13	2.03	0.40
1:i:532:ASP:CG	1:l:709:LYS:HZ1	2.30	0.40
1:k:434:ASP:HB2	1:k:478:LYS:HE2	2.03	0.40
1:o:544:MET:HG2	1:o:562:LEU:HD23	2.03	0.40
1:p:696:ARG:HD3	1:p:700:GLU:OE2	2.21	0.40
1:q:709:LYS:HZ1	1:x:532:ASP:CG	2.29	0.40
1:t:434:ASP:HB2	1:t:478:LYS:HE2	2.03	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:v:452:GLN:HE21	1:v:459:GLY:CA	2.34	0.40
1:w:284:TYR:HB3	1:w:650:LEU:HD13	2.03	0.40
1:w:427:TYR:CZ	1:w:736:ARG:HD3	2.56	0.40
1:y:452:GLN:HE21	1:y:459:GLY:CA	2.34	0.40
1:6:382:THR:HG21	1:6:394:SER:N	2.28	0.40
1:7:232:ASP:H	1:7:243:THR:HG23	1.87	0.40
1:A:544:MET:HG2	1:A:562:LEU:HD23	2.03	0.40
1:B:428:ALA:N	1:B:734:LEU:O	2.42	0.40
1:C:452:GLN:HE21	1:C:459:GLY:CA	2.35	0.40
1:F:581:VAL:HG12	1:F:595:VAL:HB	2.02	0.40
1:G:696:ARG:HD3	1:G:700:GLU:OE2	2.21	0.40
1:H:544:MET:HG2	1:H:562:LEU:HD23	2.03	0.40
1:J:623:LYS:HB2	1:J:645:PRO:HG3	2.04	0.40
1:M:623:LYS:HB2	1:M:645:PRO:HG3	2.04	0.40
1:N:473:MET:HB2	1:N:473:MET:HE3	1.88	0.40
1:O:232:ASP:H	1:O:243:THR:HG23	1.87	0.40
1:Q:709:LYS:HZ1	1:R:532:ASP:CG	2.29	0.40
1:S:452:GLN:HE21	1:S:459:GLY:CA	2.35	0.40
1:T:427:TYR:CZ	1:T:736:ARG:HD3	2.56	0.40
1:U:452:GLN:HE21	1:U:459:GLY:CA	2.34	0.40
1:U:532:ASP:CG	1:V:709:LYS:HZ1	2.29	0.40
1:V:452:GLN:HE21	1:V:459:GLY:CA	2.35	0.40
1:V:544:MET:HG2	1:V:562:LEU:HD23	2.03	0.40
1:W:623:LYS:HB2	1:W:645:PRO:HG3	2.04	0.40
1:X:544:MET:HG2	1:X:562:LEU:HD23	2.03	0.40
1:b:734:LEU:HD23	1:b:734:LEU:HA	1.95	0.40
1:e:452:GLN:HE21	1:e:459:GLY:CA	2.34	0.40
1:f:435:ARG:HD2	1:h:381:LEU:HD13	2.02	0.40
1:g:452:GLN:HE21	1:g:459:GLY:CA	2.35	0.40
1:k:544:MET:HG2	1:k:562:LEU:HD23	2.03	0.40
1:k:623:LYS:HB2	1:k:645:PRO:HG3	2.04	0.40
1:l:451:THR:HG22	1:l:451:THR:O	2.20	0.40
1:n:623:LYS:HB2	1:n:645:PRO:HG3	2.04	0.40
1:o:232:ASP:H	1:o:243:THR:HG23	1.87	0.40
1:p:419:GLU:OE2	1:p:643:LYS:N	2.52	0.40
1:q:232:ASP:H	1:q:243:THR:HG23	1.87	0.40
1:r:581:VAL:HG12	1:r:595:VAL:HB	2.03	0.40
1:s:581:VAL:HG12	1:s:595:VAL:HB	2.02	0.40
1:s:696:ARG:HD3	1:s:700:GLU:OE2	2.21	0.40
1:u:232:ASP:H	1:u:243:THR:HG23	1.87	0.40
1:u:452:GLN:HE21	1:u:459:GLY:CA	2.34	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:u:532:ASP:CG	1:1:709:LYS:HZ1	2.30	0.40
1:x:452:GLN:HE21	1:x:459:GLY:CA	2.34	0.40
1:x:481:LEU:HD13	1:y:636:LEU:CD1	2.51	0.40
1:x:544:MET:HG2	1:x:562:LEU:HD23	2.03	0.40
1:y:434:ASP:HB2	1:y:478:LYS:HE2	2.03	0.40
1:1:419:GLU:OE2	1:1:643:LYS:N	2.52	0.40
1:1:427:TYR:CZ	1:1:736:ARG:HD3	2.56	0.40
1:5:428:ALA:N	1:5:734:LEU:O	2.42	0.40
1:6:581:VAL:HG12	1:6:595:VAL:HB	2.02	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	1	519/520 (100%)	510 (98%)	9 (2%)	0	100	100
1	2	519/520 (100%)	510 (98%)	9 (2%)	0	100	100
1	3	519/520 (100%)	510 (98%)	9 (2%)	0	100	100
1	4	519/520 (100%)	510 (98%)	9 (2%)	0	100	100
1	5	519/520 (100%)	510 (98%)	9 (2%)	0	100	100
1	6	519/520 (100%)	510 (98%)	9 (2%)	0	100	100
1	7	519/520 (100%)	510 (98%)	9 (2%)	0	100	100
1	8	519/520 (100%)	510 (98%)	9 (2%)	0	100	100
1	A	519/520 (100%)	510 (98%)	9 (2%)	0	100	100
1	B	519/520 (100%)	510 (98%)	9 (2%)	0	100	100
1	C	519/520 (100%)	510 (98%)	9 (2%)	0	100	100
1	D	519/520 (100%)	510 (98%)	9 (2%)	0	100	100
1	E	519/520 (100%)	510 (98%)	9 (2%)	0	100	100

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	F	519/520 (100%)	510 (98%)	9 (2%)	0	100	100
1	G	519/520 (100%)	510 (98%)	9 (2%)	0	100	100
1	H	519/520 (100%)	510 (98%)	9 (2%)	0	100	100
1	I	519/520 (100%)	510 (98%)	9 (2%)	0	100	100
1	J	519/520 (100%)	510 (98%)	9 (2%)	0	100	100
1	K	519/520 (100%)	510 (98%)	9 (2%)	0	100	100
1	L	519/520 (100%)	510 (98%)	9 (2%)	0	100	100
1	M	519/520 (100%)	510 (98%)	9 (2%)	0	100	100
1	N	519/520 (100%)	510 (98%)	9 (2%)	0	100	100
1	O	519/520 (100%)	510 (98%)	9 (2%)	0	100	100
1	P	519/520 (100%)	510 (98%)	9 (2%)	0	100	100
1	Q	519/520 (100%)	510 (98%)	9 (2%)	0	100	100
1	R	519/520 (100%)	510 (98%)	9 (2%)	0	100	100
1	S	519/520 (100%)	510 (98%)	9 (2%)	0	100	100
1	T	519/520 (100%)	510 (98%)	9 (2%)	0	100	100
1	U	519/520 (100%)	510 (98%)	9 (2%)	0	100	100
1	V	519/520 (100%)	510 (98%)	9 (2%)	0	100	100
1	W	519/520 (100%)	510 (98%)	9 (2%)	0	100	100
1	X	519/520 (100%)	510 (98%)	9 (2%)	0	100	100
1	Y	519/520 (100%)	510 (98%)	9 (2%)	0	100	100
1	Z	519/520 (100%)	510 (98%)	9 (2%)	0	100	100
1	a	519/520 (100%)	510 (98%)	9 (2%)	0	100	100
1	b	519/520 (100%)	510 (98%)	9 (2%)	0	100	100
1	c	519/520 (100%)	510 (98%)	9 (2%)	0	100	100
1	d	519/520 (100%)	510 (98%)	9 (2%)	0	100	100
1	e	519/520 (100%)	510 (98%)	9 (2%)	0	100	100
1	f	519/520 (100%)	510 (98%)	9 (2%)	0	100	100
1	g	519/520 (100%)	510 (98%)	9 (2%)	0	100	100
1	h	519/520 (100%)	510 (98%)	9 (2%)	0	100	100
1	i	519/520 (100%)	510 (98%)	9 (2%)	0	100	100
1	j	519/520 (100%)	510 (98%)	9 (2%)	0	100	100

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	k	519/520 (100%)	510 (98%)	9 (2%)	0	100	100
1	l	519/520 (100%)	510 (98%)	9 (2%)	0	100	100
1	m	519/520 (100%)	510 (98%)	9 (2%)	0	100	100
1	n	519/520 (100%)	510 (98%)	9 (2%)	0	100	100
1	o	519/520 (100%)	510 (98%)	9 (2%)	0	100	100
1	p	519/520 (100%)	510 (98%)	9 (2%)	0	100	100
1	q	519/520 (100%)	510 (98%)	9 (2%)	0	100	100
1	r	519/520 (100%)	510 (98%)	9 (2%)	0	100	100
1	s	519/520 (100%)	510 (98%)	9 (2%)	0	100	100
1	t	519/520 (100%)	510 (98%)	9 (2%)	0	100	100
1	u	519/520 (100%)	510 (98%)	9 (2%)	0	100	100
1	v	519/520 (100%)	510 (98%)	9 (2%)	0	100	100
1	w	519/520 (100%)	510 (98%)	9 (2%)	0	100	100
1	x	519/520 (100%)	510 (98%)	9 (2%)	0	100	100
1	y	519/520 (100%)	510 (98%)	9 (2%)	0	100	100
1	z	519/520 (100%)	510 (98%)	9 (2%)	0	100	100
All	All	31140/31200 (100%)	30600 (98%)	540 (2%)	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	1	453/452 (100%)	452 (100%)	1 (0%)	87	95
1	2	453/452 (100%)	452 (100%)	1 (0%)	87	95
1	3	453/452 (100%)	452 (100%)	1 (0%)	87	95
1	4	453/452 (100%)	452 (100%)	1 (0%)	87	95
1	5	453/452 (100%)	452 (100%)	1 (0%)	87	95

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
1	6	453/452 (100%)	452 (100%)	1 (0%)	87	95
1	7	453/452 (100%)	452 (100%)	1 (0%)	87	95
1	8	453/452 (100%)	452 (100%)	1 (0%)	87	95
1	A	453/452 (100%)	452 (100%)	1 (0%)	87	95
1	B	453/452 (100%)	452 (100%)	1 (0%)	87	95
1	C	453/452 (100%)	452 (100%)	1 (0%)	87	95
1	D	453/452 (100%)	452 (100%)	1 (0%)	87	95
1	E	453/452 (100%)	452 (100%)	1 (0%)	87	95
1	F	453/452 (100%)	452 (100%)	1 (0%)	87	95
1	G	453/452 (100%)	452 (100%)	1 (0%)	87	95
1	H	453/452 (100%)	452 (100%)	1 (0%)	87	95
1	I	453/452 (100%)	452 (100%)	1 (0%)	87	95
1	J	453/452 (100%)	452 (100%)	1 (0%)	87	95
1	K	453/452 (100%)	452 (100%)	1 (0%)	87	95
1	L	453/452 (100%)	452 (100%)	1 (0%)	87	95
1	M	453/452 (100%)	452 (100%)	1 (0%)	87	95
1	N	453/452 (100%)	452 (100%)	1 (0%)	87	95
1	O	453/452 (100%)	452 (100%)	1 (0%)	87	95
1	P	453/452 (100%)	452 (100%)	1 (0%)	87	95
1	Q	453/452 (100%)	452 (100%)	1 (0%)	87	95
1	R	453/452 (100%)	452 (100%)	1 (0%)	87	95
1	S	453/452 (100%)	452 (100%)	1 (0%)	87	95
1	T	453/452 (100%)	452 (100%)	1 (0%)	87	95
1	U	453/452 (100%)	452 (100%)	1 (0%)	87	95
1	V	453/452 (100%)	452 (100%)	1 (0%)	87	95
1	W	453/452 (100%)	452 (100%)	1 (0%)	87	95
1	X	453/452 (100%)	452 (100%)	1 (0%)	87	95
1	Y	453/452 (100%)	452 (100%)	1 (0%)	87	95
1	Z	453/452 (100%)	452 (100%)	1 (0%)	87	95
1	a	453/452 (100%)	452 (100%)	1 (0%)	87	95
1	b	453/452 (100%)	452 (100%)	1 (0%)	87	95

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
1	c	453/452 (100%)	452 (100%)	1 (0%)	87	95
1	d	453/452 (100%)	452 (100%)	1 (0%)	87	95
1	e	453/452 (100%)	452 (100%)	1 (0%)	87	95
1	f	453/452 (100%)	452 (100%)	1 (0%)	87	95
1	g	453/452 (100%)	452 (100%)	1 (0%)	87	95
1	h	453/452 (100%)	452 (100%)	1 (0%)	87	95
1	i	453/452 (100%)	452 (100%)	1 (0%)	87	95
1	j	453/452 (100%)	452 (100%)	1 (0%)	87	95
1	k	453/452 (100%)	452 (100%)	1 (0%)	87	95
1	l	453/452 (100%)	452 (100%)	1 (0%)	87	95
1	m	453/452 (100%)	452 (100%)	1 (0%)	87	95
1	n	453/452 (100%)	452 (100%)	1 (0%)	87	95
1	o	453/452 (100%)	452 (100%)	1 (0%)	87	95
1	p	453/452 (100%)	452 (100%)	1 (0%)	87	95
1	q	453/452 (100%)	452 (100%)	1 (0%)	87	95
1	r	453/452 (100%)	452 (100%)	1 (0%)	87	95
1	s	453/452 (100%)	452 (100%)	1 (0%)	87	95
1	t	453/452 (100%)	452 (100%)	1 (0%)	87	95
1	u	453/452 (100%)	452 (100%)	1 (0%)	87	95
1	v	453/452 (100%)	452 (100%)	1 (0%)	87	95
1	w	453/452 (100%)	452 (100%)	1 (0%)	87	95
1	x	453/452 (100%)	452 (100%)	1 (0%)	87	95
1	y	453/452 (100%)	452 (100%)	1 (0%)	87	95
1	z	453/452 (100%)	452 (100%)	1 (0%)	87	95
All	All	27180/27120 (100%)	27120 (100%)	60 (0%)	85	95

All (60) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	448	LEU
1	B	448	LEU
1	C	448	LEU
1	D	448	LEU
1	E	448	LEU

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Mol	Chain	Res	Type
1	F	448	LEU
1	G	448	LEU
1	H	448	LEU
1	I	448	LEU
1	J	448	LEU
1	K	448	LEU
1	L	448	LEU
1	M	448	LEU
1	N	448	LEU
1	O	448	LEU
1	P	448	LEU
1	Q	448	LEU
1	R	448	LEU
1	S	448	LEU
1	T	448	LEU
1	U	448	LEU
1	V	448	LEU
1	W	448	LEU
1	X	448	LEU
1	Y	448	LEU
1	Z	448	LEU
1	a	448	LEU
1	b	448	LEU
1	c	448	LEU
1	d	448	LEU
1	e	448	LEU
1	f	448	LEU
1	g	448	LEU
1	h	448	LEU
1	i	448	LEU
1	j	448	LEU
1	k	448	LEU
1	l	448	LEU
1	m	448	LEU
1	n	448	LEU
1	o	448	LEU
1	p	448	LEU
1	q	448	LEU
1	r	448	LEU
1	s	448	LEU
1	t	448	LEU
1	u	448	LEU

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Mol	Chain	Res	Type
1	v	448	LEU
1	w	448	LEU
1	x	448	LEU
1	y	448	LEU
1	z	448	LEU
1	1	448	LEU
1	2	448	LEU
1	3	448	LEU
1	4	448	LEU
1	5	448	LEU
1	6	448	LEU
1	7	448	LEU
1	8	448	LEU

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (570) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	328	GLN
1	A	362	GLN
1	A	431	GLN
1	A	452	GLN
1	A	587	GLN
1	A	610	GLN
1	A	653	ASN
1	A	675	GLN
1	A	737	ASN
1	B	328	GLN
1	B	362	GLN
1	B	431	GLN
1	B	452	GLN
1	B	548	GLN
1	B	587	GLN
1	B	610	GLN
1	B	653	ASN
1	B	675	GLN
1	B	737	ASN
1	C	328	GLN
1	C	362	GLN
1	C	431	GLN
1	C	452	GLN
1	C	548	GLN
1	C	610	GLN

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Mol	Chain	Res	Type
1	C	653	ASN
1	C	675	GLN
1	C	737	ASN
1	D	328	GLN
1	D	362	GLN
1	D	431	GLN
1	D	452	GLN
1	D	548	GLN
1	D	610	GLN
1	D	653	ASN
1	D	675	GLN
1	D	737	ASN
1	E	328	GLN
1	E	362	GLN
1	E	431	GLN
1	E	452	GLN
1	E	548	GLN
1	E	587	GLN
1	E	610	GLN
1	E	644	HIS
1	E	653	ASN
1	E	675	GLN
1	E	737	ASN
1	F	328	GLN
1	F	362	GLN
1	F	431	GLN
1	F	452	GLN
1	F	587	GLN
1	F	610	GLN
1	F	653	ASN
1	F	675	GLN
1	F	737	ASN
1	G	328	GLN
1	G	362	GLN
1	G	431	GLN
1	G	452	GLN
1	G	462	GLN
1	G	548	GLN
1	G	601	GLN
1	G	610	GLN
1	G	653	ASN
1	G	675	GLN

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Mol	Chain	Res	Type
1	G	737	ASN
1	H	328	GLN
1	H	362	GLN
1	H	431	GLN
1	H	452	GLN
1	H	548	GLN
1	H	610	GLN
1	H	653	ASN
1	H	675	GLN
1	H	737	ASN
1	I	328	GLN
1	I	362	GLN
1	I	431	GLN
1	I	452	GLN
1	I	462	GLN
1	I	548	GLN
1	I	587	GLN
1	I	610	GLN
1	I	653	ASN
1	I	675	GLN
1	I	737	ASN
1	J	328	GLN
1	J	362	GLN
1	J	431	GLN
1	J	452	GLN
1	J	548	GLN
1	J	587	GLN
1	J	610	GLN
1	J	653	ASN
1	J	675	GLN
1	J	737	ASN
1	K	328	GLN
1	K	362	GLN
1	K	431	GLN
1	K	452	GLN
1	K	610	GLN
1	K	653	ASN
1	K	675	GLN
1	K	737	ASN
1	L	328	GLN
1	L	362	GLN
1	L	431	GLN

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Mol	Chain	Res	Type
1	L	452	GLN
1	L	548	GLN
1	L	610	GLN
1	L	653	ASN
1	L	675	GLN
1	L	737	ASN
1	M	328	GLN
1	M	362	GLN
1	M	431	GLN
1	M	452	GLN
1	M	587	GLN
1	M	610	GLN
1	M	653	ASN
1	M	675	GLN
1	M	737	ASN
1	N	328	GLN
1	N	362	GLN
1	N	431	GLN
1	N	452	GLN
1	N	548	GLN
1	N	587	GLN
1	N	610	GLN
1	N	653	ASN
1	N	675	GLN
1	N	737	ASN
1	O	328	GLN
1	O	362	GLN
1	O	431	GLN
1	O	452	GLN
1	O	462	GLN
1	O	587	GLN
1	O	610	GLN
1	O	644	HIS
1	O	653	ASN
1	O	675	GLN
1	O	737	ASN
1	P	328	GLN
1	P	362	GLN
1	P	431	GLN
1	P	452	GLN
1	P	610	GLN
1	P	653	ASN

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Mol	Chain	Res	Type
1	P	675	GLN
1	P	737	ASN
1	Q	328	GLN
1	Q	362	GLN
1	Q	431	GLN
1	Q	452	GLN
1	Q	587	GLN
1	Q	610	GLN
1	Q	653	ASN
1	Q	675	GLN
1	Q	737	ASN
1	R	328	GLN
1	R	362	GLN
1	R	431	GLN
1	R	452	GLN
1	R	548	GLN
1	R	587	GLN
1	R	610	GLN
1	R	653	ASN
1	R	675	GLN
1	R	737	ASN
1	S	328	GLN
1	S	362	GLN
1	S	431	GLN
1	S	452	GLN
1	S	548	GLN
1	S	587	GLN
1	S	610	GLN
1	S	653	ASN
1	S	675	GLN
1	S	737	ASN
1	T	328	GLN
1	T	362	GLN
1	T	431	GLN
1	T	452	GLN
1	T	587	GLN
1	T	610	GLN
1	T	653	ASN
1	T	675	GLN
1	T	737	ASN
1	U	328	GLN
1	U	362	GLN

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Mol	Chain	Res	Type
1	U	431	GLN
1	U	452	GLN
1	U	548	GLN
1	U	610	GLN
1	U	653	ASN
1	U	675	GLN
1	U	737	ASN
1	V	328	GLN
1	V	362	GLN
1	V	431	GLN
1	V	452	GLN
1	V	548	GLN
1	V	587	GLN
1	V	610	GLN
1	V	653	ASN
1	V	675	GLN
1	V	737	ASN
1	W	328	GLN
1	W	362	GLN
1	W	431	GLN
1	W	452	GLN
1	W	548	GLN
1	W	587	GLN
1	W	610	GLN
1	W	653	ASN
1	W	675	GLN
1	W	737	ASN
1	X	328	GLN
1	X	362	GLN
1	X	431	GLN
1	X	452	GLN
1	X	548	GLN
1	X	587	GLN
1	X	610	GLN
1	X	653	ASN
1	X	675	GLN
1	X	737	ASN
1	Y	328	GLN
1	Y	362	GLN
1	Y	431	GLN
1	Y	452	GLN
1	Y	587	GLN

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Mol	Chain	Res	Type
1	Y	610	GLN
1	Y	653	ASN
1	Y	675	GLN
1	Y	737	ASN
1	Z	328	GLN
1	Z	362	GLN
1	Z	431	GLN
1	Z	452	GLN
1	Z	587	GLN
1	Z	610	GLN
1	Z	644	HIS
1	Z	653	ASN
1	Z	675	GLN
1	Z	737	ASN
1	a	328	GLN
1	a	362	GLN
1	a	431	GLN
1	a	452	GLN
1	a	587	GLN
1	a	610	GLN
1	a	653	ASN
1	a	675	GLN
1	a	737	ASN
1	b	328	GLN
1	b	362	GLN
1	b	431	GLN
1	b	452	GLN
1	b	587	GLN
1	b	610	GLN
1	b	653	ASN
1	b	675	GLN
1	b	737	ASN
1	c	328	GLN
1	c	362	GLN
1	c	431	GLN
1	c	452	GLN
1	c	548	GLN
1	c	587	GLN
1	c	610	GLN
1	c	653	ASN
1	c	675	GLN
1	c	737	ASN

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Mol	Chain	Res	Type
1	d	328	GLN
1	d	362	GLN
1	d	431	GLN
1	d	452	GLN
1	d	587	GLN
1	d	610	GLN
1	d	653	ASN
1	d	675	GLN
1	d	737	ASN
1	e	328	GLN
1	e	362	GLN
1	e	431	GLN
1	e	452	GLN
1	e	610	GLN
1	e	653	ASN
1	e	675	GLN
1	e	737	ASN
1	f	328	GLN
1	f	362	GLN
1	f	431	GLN
1	f	452	GLN
1	f	610	GLN
1	f	644	HIS
1	f	653	ASN
1	f	675	GLN
1	f	737	ASN
1	g	328	GLN
1	g	362	GLN
1	g	431	GLN
1	g	452	GLN
1	g	587	GLN
1	g	610	GLN
1	g	653	ASN
1	g	675	GLN
1	g	737	ASN
1	h	328	GLN
1	h	362	GLN
1	h	431	GLN
1	h	452	GLN
1	h	548	GLN
1	h	610	GLN
1	h	653	ASN

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Mol	Chain	Res	Type
1	h	675	GLN
1	h	737	ASN
1	i	328	GLN
1	i	362	GLN
1	i	431	GLN
1	i	452	GLN
1	i	548	GLN
1	i	587	GLN
1	i	610	GLN
1	i	653	ASN
1	i	675	GLN
1	i	737	ASN
1	j	328	GLN
1	j	362	GLN
1	j	431	GLN
1	j	452	GLN
1	j	610	GLN
1	j	653	ASN
1	j	675	GLN
1	j	737	ASN
1	k	328	GLN
1	k	362	GLN
1	k	431	GLN
1	k	452	GLN
1	k	610	GLN
1	k	653	ASN
1	k	675	GLN
1	k	737	ASN
1	l	328	GLN
1	l	362	GLN
1	l	431	GLN
1	l	452	GLN
1	l	587	GLN
1	l	610	GLN
1	l	644	HIS
1	l	653	ASN
1	l	675	GLN
1	l	737	ASN
1	m	328	GLN
1	m	362	GLN
1	m	431	GLN
1	m	452	GLN

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Mol	Chain	Res	Type
1	m	587	GLN
1	m	610	GLN
1	m	644	HIS
1	m	653	ASN
1	m	675	GLN
1	m	737	ASN
1	n	328	GLN
1	n	362	GLN
1	n	431	GLN
1	n	452	GLN
1	n	548	GLN
1	n	587	GLN
1	n	610	GLN
1	n	644	HIS
1	n	653	ASN
1	n	675	GLN
1	n	737	ASN
1	o	328	GLN
1	o	362	GLN
1	o	431	GLN
1	o	452	GLN
1	o	587	GLN
1	o	610	GLN
1	o	653	ASN
1	o	675	GLN
1	o	737	ASN
1	p	328	GLN
1	p	362	GLN
1	p	431	GLN
1	p	452	GLN
1	p	462	GLN
1	p	548	GLN
1	p	610	GLN
1	p	653	ASN
1	p	675	GLN
1	p	737	ASN
1	q	328	GLN
1	q	362	GLN
1	q	431	GLN
1	q	452	GLN
1	q	548	GLN
1	q	587	GLN

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Mol	Chain	Res	Type
1	q	610	GLN
1	q	653	ASN
1	q	675	GLN
1	q	737	ASN
1	r	328	GLN
1	r	362	GLN
1	r	431	GLN
1	r	452	GLN
1	r	587	GLN
1	r	610	GLN
1	r	653	ASN
1	r	675	GLN
1	r	737	ASN
1	s	328	GLN
1	s	362	GLN
1	s	431	GLN
1	s	452	GLN
1	s	548	GLN
1	s	610	GLN
1	s	653	ASN
1	s	675	GLN
1	s	737	ASN
1	t	328	GLN
1	t	362	GLN
1	t	431	GLN
1	t	452	GLN
1	t	548	GLN
1	t	587	GLN
1	t	610	GLN
1	t	644	HIS
1	t	653	ASN
1	t	675	GLN
1	t	737	ASN
1	u	328	GLN
1	u	362	GLN
1	u	431	GLN
1	u	452	GLN
1	u	548	GLN
1	u	610	GLN
1	u	653	ASN
1	u	675	GLN
1	u	737	ASN

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Mol	Chain	Res	Type
1	v	328	GLN
1	v	362	GLN
1	v	431	GLN
1	v	452	GLN
1	v	548	GLN
1	v	610	GLN
1	v	644	HIS
1	v	653	ASN
1	v	675	GLN
1	v	737	ASN
1	w	328	GLN
1	w	362	GLN
1	w	431	GLN
1	w	452	GLN
1	w	548	GLN
1	w	610	GLN
1	w	653	ASN
1	w	675	GLN
1	w	737	ASN
1	x	328	GLN
1	x	362	GLN
1	x	431	GLN
1	x	452	GLN
1	x	548	GLN
1	x	587	GLN
1	x	610	GLN
1	x	653	ASN
1	x	675	GLN
1	x	737	ASN
1	y	328	GLN
1	y	362	GLN
1	y	431	GLN
1	y	452	GLN
1	y	548	GLN
1	y	587	GLN
1	y	610	GLN
1	y	653	ASN
1	y	675	GLN
1	y	737	ASN
1	z	328	GLN
1	z	362	GLN
1	z	431	GLN

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Mol	Chain	Res	Type
1	z	452	GLN
1	z	610	GLN
1	z	644	HIS
1	z	653	ASN
1	z	675	GLN
1	z	737	ASN
1	1	328	GLN
1	1	362	GLN
1	1	431	GLN
1	1	452	GLN
1	1	548	GLN
1	1	587	GLN
1	1	610	GLN
1	1	653	ASN
1	1	675	GLN
1	1	737	ASN
1	2	328	GLN
1	2	362	GLN
1	2	431	GLN
1	2	452	GLN
1	2	462	GLN
1	2	587	GLN
1	2	610	GLN
1	2	653	ASN
1	2	675	GLN
1	2	737	ASN
1	3	328	GLN
1	3	362	GLN
1	3	431	GLN
1	3	452	GLN
1	3	462	GLN
1	3	610	GLN
1	3	653	ASN
1	3	675	GLN
1	3	737	ASN
1	4	328	GLN
1	4	362	GLN
1	4	431	GLN
1	4	452	GLN
1	4	548	GLN
1	4	587	GLN
1	4	610	GLN

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Mol	Chain	Res	Type
1	4	644	HIS
1	4	653	ASN
1	4	675	GLN
1	4	737	ASN
1	5	328	GLN
1	5	362	GLN
1	5	431	GLN
1	5	452	GLN
1	5	610	GLN
1	5	653	ASN
1	5	675	GLN
1	5	737	ASN
1	6	328	GLN
1	6	362	GLN
1	6	431	GLN
1	6	452	GLN
1	6	587	GLN
1	6	610	GLN
1	6	653	ASN
1	6	675	GLN
1	6	737	ASN
1	7	328	GLN
1	7	362	GLN
1	7	431	GLN
1	7	452	GLN
1	7	548	GLN
1	7	587	GLN
1	7	610	GLN
1	7	644	HIS
1	7	653	ASN
1	7	675	GLN
1	7	737	ASN
1	8	328	GLN
1	8	362	GLN
1	8	431	GLN
1	8	452	GLN
1	8	462	GLN
1	8	610	GLN
1	8	653	ASN
1	8	675	GLN
1	8	737	ASN

5.3.3 RNA

There are no RNA molecules in this entry.

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

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

5.5 Carbohydrates

There are no oligosaccharides in this entry.

5.6 Ligand geometry

There are no ligands in this entry.

5.7 Other polymers

There are no such residues in this entry.

5.8 Polymer linkage issues

There are no chain breaks in this entry.

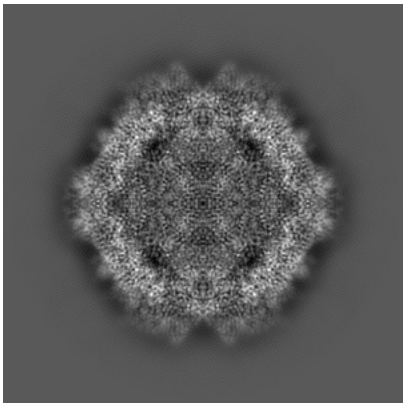
6 Map visualisation

This section contains visualisations of the EMDB entry EMD-0663. These allow visual inspection of the internal detail of the map and identification of artifacts.

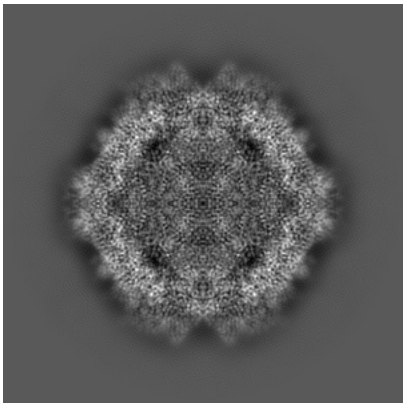
No raw map or half-maps were deposited for this entry and therefore no images, graphs, etc. pertaining to the raw map can be shown.

6.1 Orthogonal projections

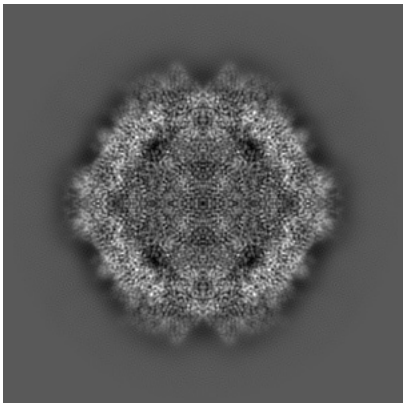
6.1.1 Primary map



X



Y

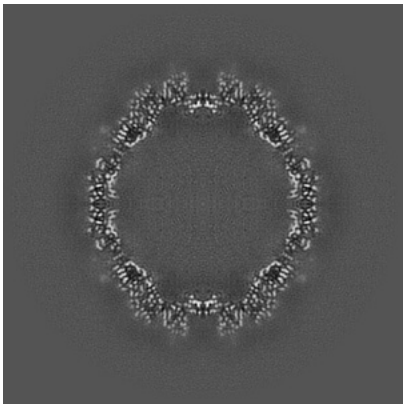


Z

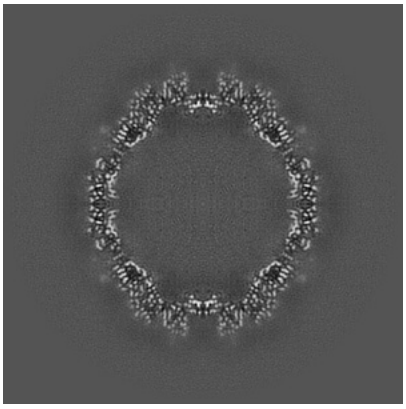
The images above show the map projected in three orthogonal directions.

6.2 Central slices

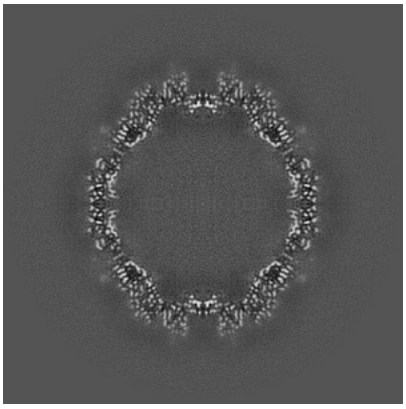
6.2.1 Primary map



X Index: 200



Y Index: 200

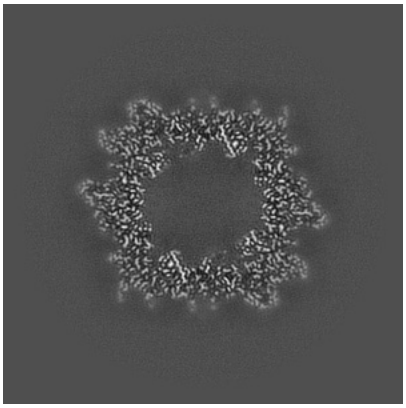


Z Index: 200

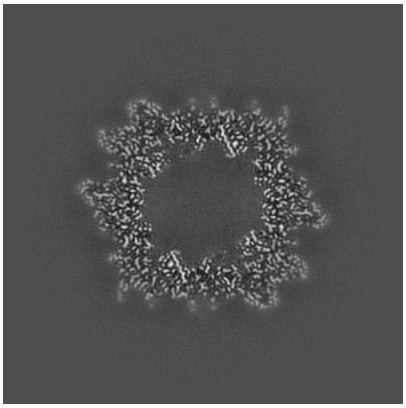
The images above show central slices of the map in three orthogonal directions.

6.3 Largest variance slices (i)

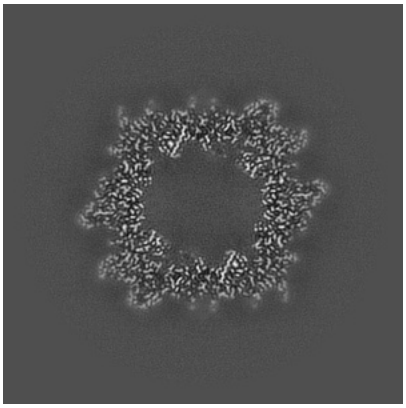
6.3.1 Primary map



X Index: 267



Y Index: 267

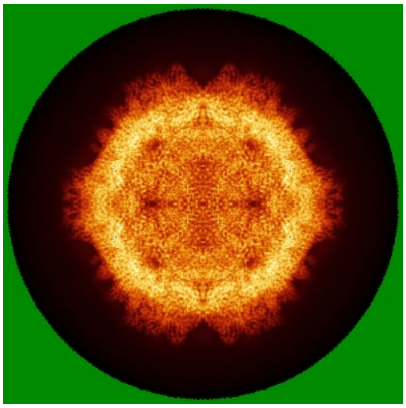


Z Index: 133

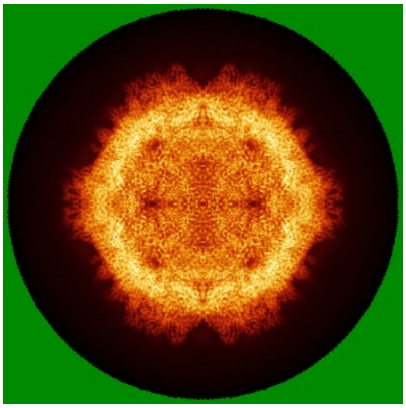
The images above show the largest variance slices of the map in three orthogonal directions.

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

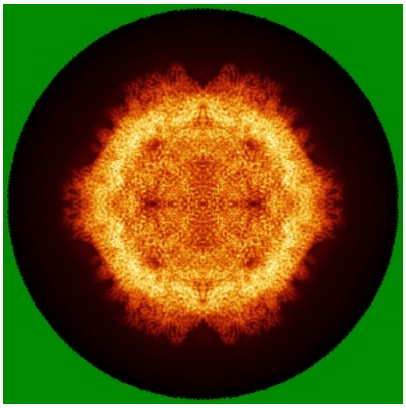
6.4.1 Primary map



X



Y



Z

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

6.5 Orthogonal surface views (i)

This section was not generated.

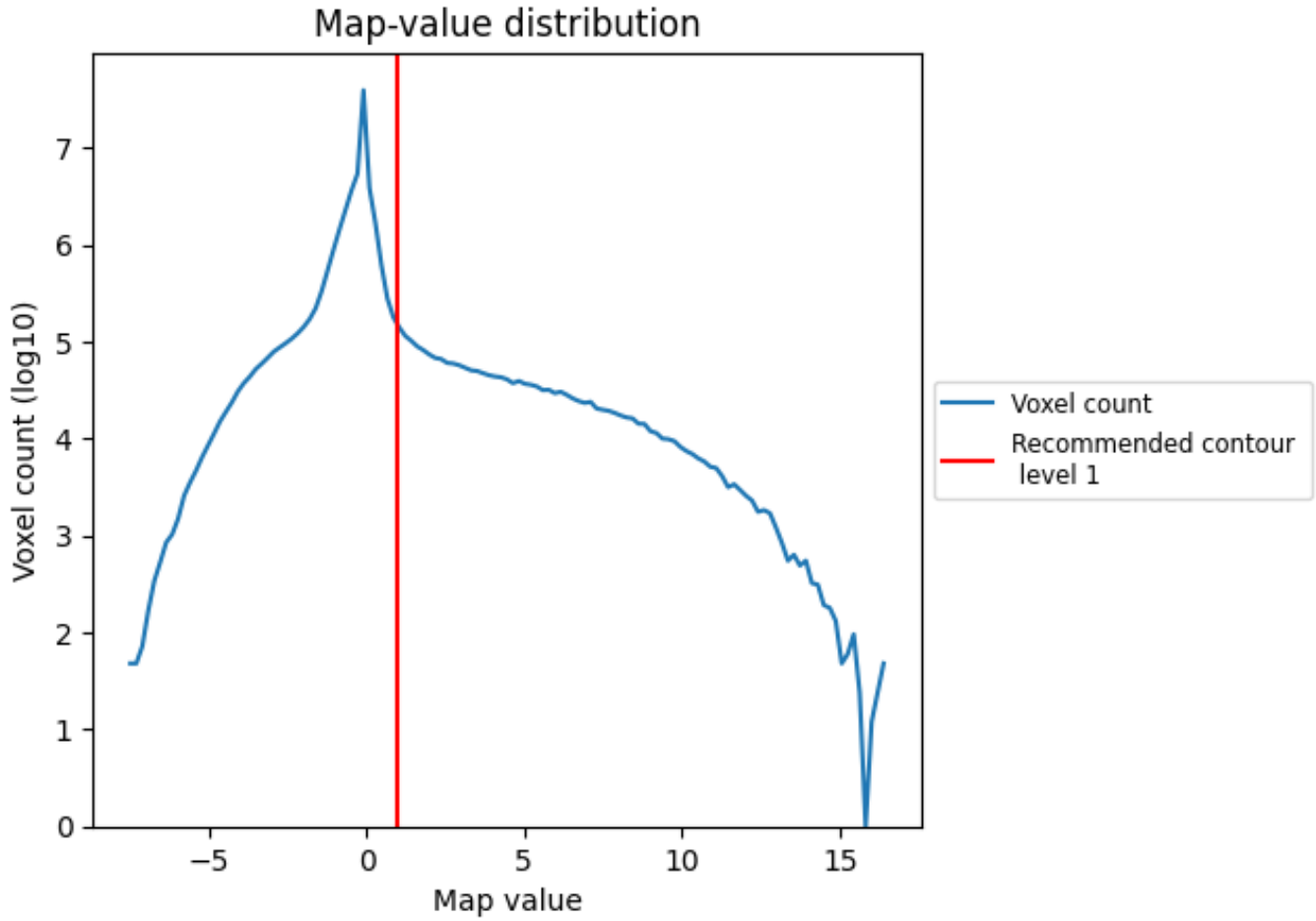
6.6 Mask visualisation (i)

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

7 Map analysis

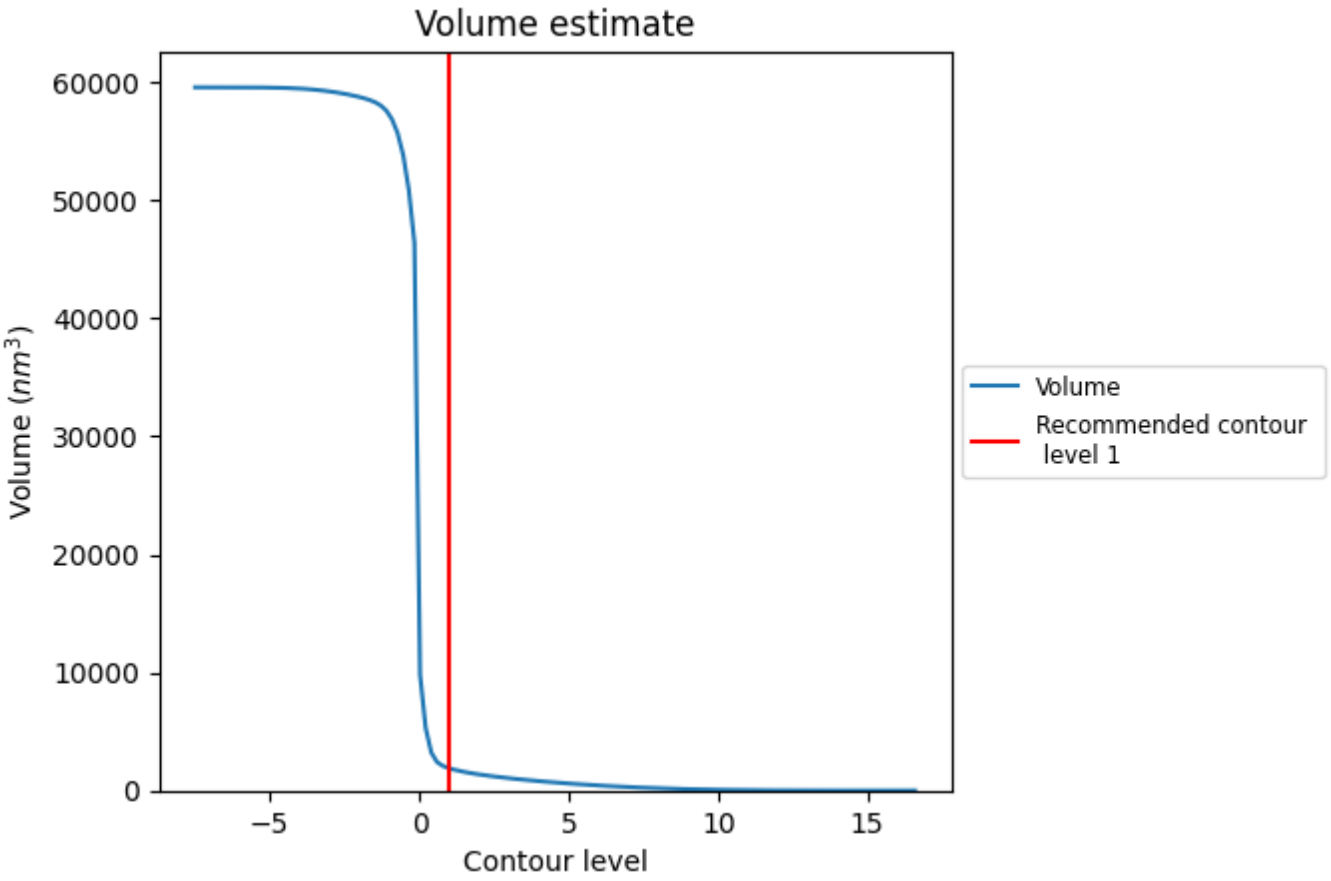
This section contains the results of statistical analysis of the map.

7.1 Map-value distribution



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

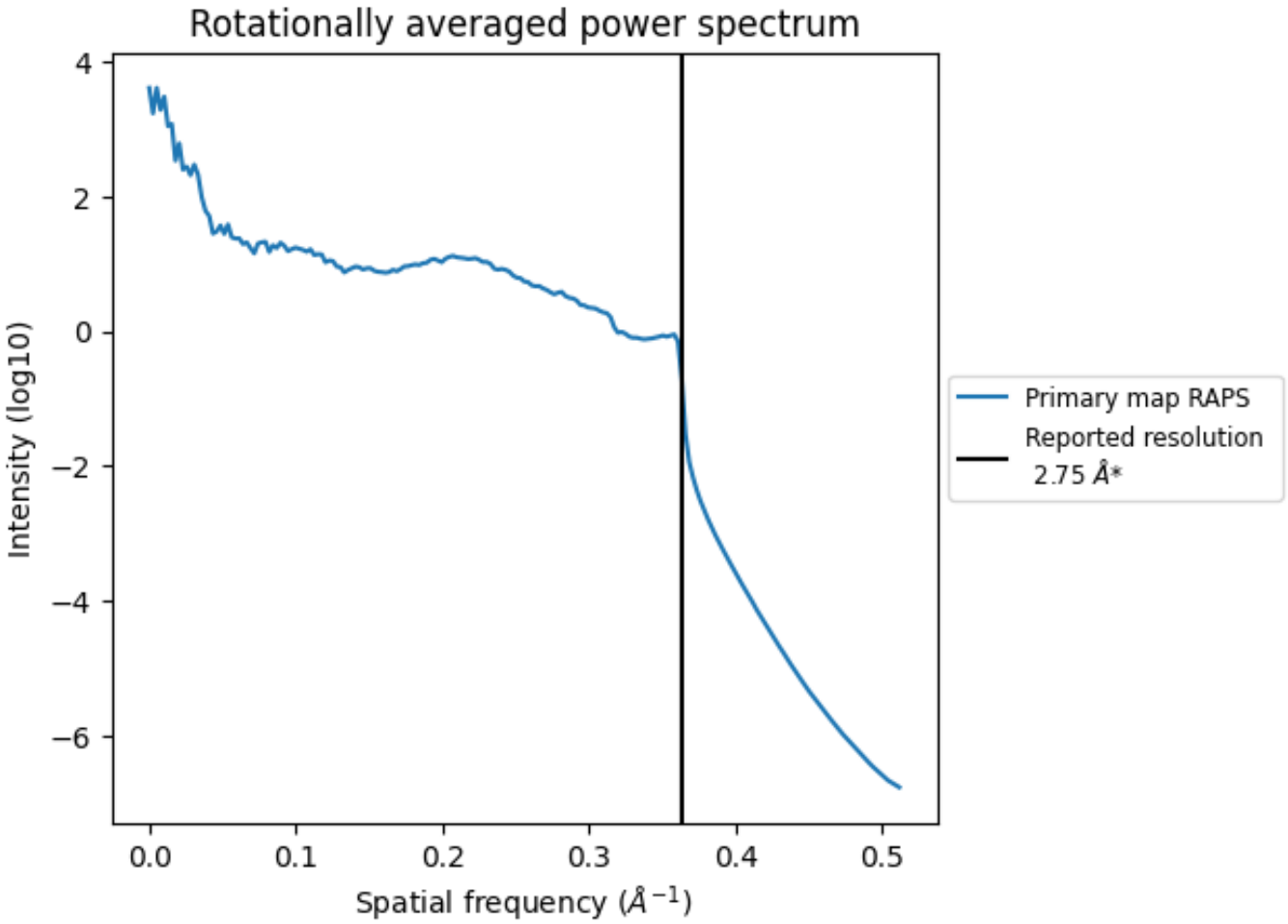
7.2 Volume estimate



The volume at the recommended contour level is 1896 nm^3; this corresponds to an approximate mass of 1712 kDa.

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

7.3 Rotationally averaged power spectrum (i)



*Reported resolution corresponds to spatial frequency of 0.364 Å^{-1}

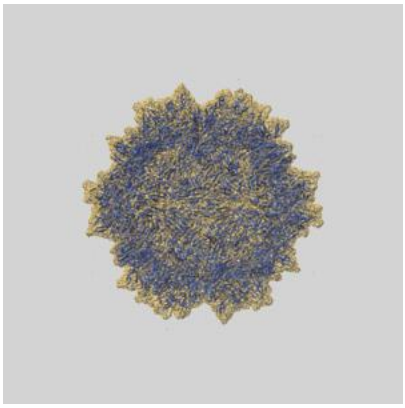
8 Fourier-Shell correlation

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

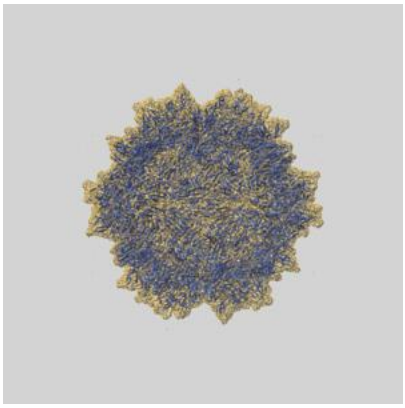
9 Map-model fit

This section contains information regarding the fit between EMDB map EMD-0663 and PDB model 6O9R. Per-residue inclusion information can be found in section 3 on page 14.

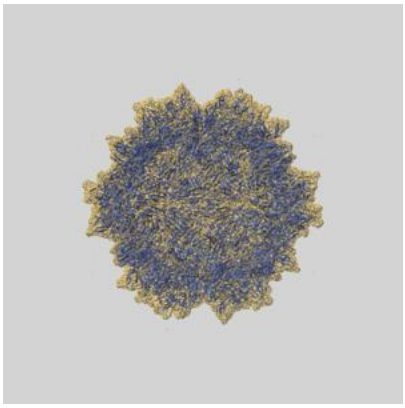
9.1 Map-model overlay



X



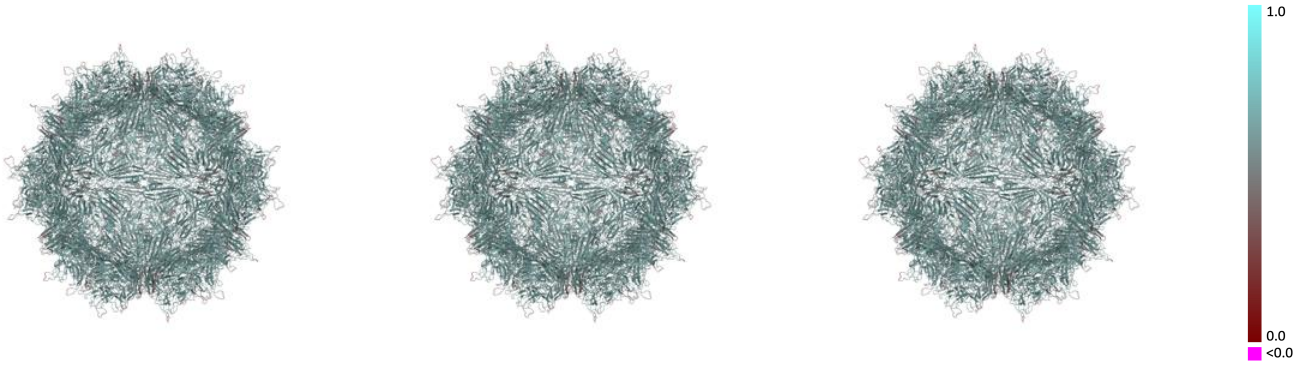
Y



Z

The images above show the 3D surface view of the map at the recommended contour level 1.0 at 50% transparency in yellow overlaid with a ribbon representation of the model coloured in blue. These images allow for the visual assessment of the quality of fit between the atomic model and the map.

9.2 Q-score mapped to coordinate model (i)



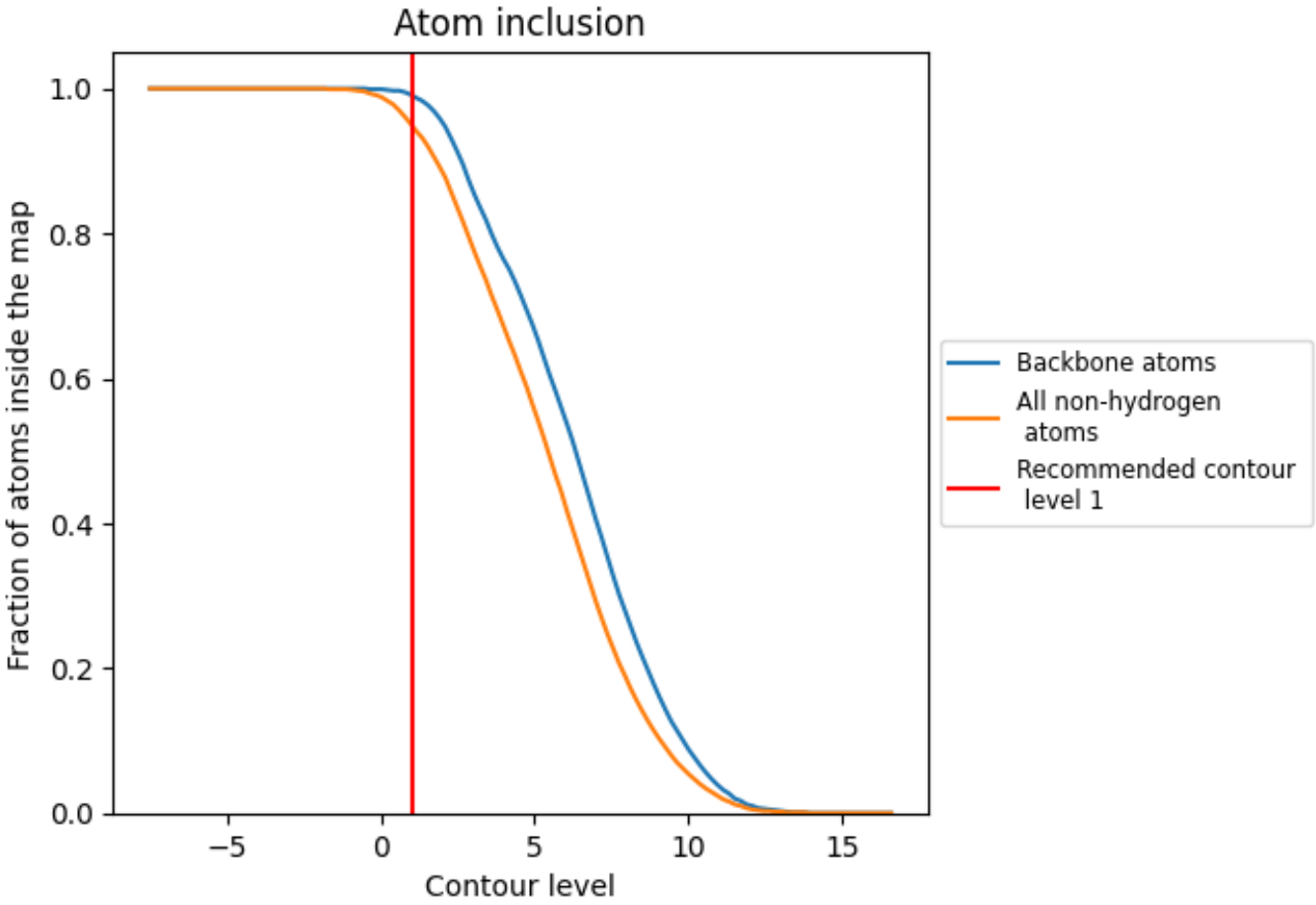
X Y Z

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

9.3 Atom inclusion mapped to coordinate model (i)

This section was not generated.

9.4 Atom inclusion (i)



At the recommended contour level, 99% of all backbone atoms, 95% of all non-hydrogen atoms, are inside the map.

9.5 Map-model fit summary

The table lists the average atom inclusion at the recommended contour level (1) and Q-score for the entire model and for each chain.

Chain	Atom inclusion	Q-score
All	0.9500	0.6020
1	0.9510	0.6020
2	0.9520	0.6020
3	0.9490	0.6010
4	0.9480	0.6010
5	0.9510	0.6030
6	0.9480	0.6020
7	0.9490	0.6010
8	0.9490	0.6020
A	0.9510	0.6020
B	0.9480	0.6020
C	0.9510	0.6020
D	0.9490	0.6020
E	0.9490	0.6020
F	0.9480	0.6020
G	0.9510	0.6010
H	0.9480	0.6020
I	0.9510	0.6010
J	0.9490	0.6020
K	0.9490	0.6010
L	0.9510	0.6020
M	0.9490	0.6020
N	0.9490	0.6020
O	0.9490	0.6010
P	0.9490	0.6020
Q	0.9510	0.6020
R	0.9510	0.6020
S	0.9480	0.6030
T	0.9510	0.6010
U	0.9490	0.6020
V	0.9490	0.6020
W	0.9490	0.6000
X	0.9490	0.6020
Y	0.9510	0.6020
Z	0.9510	0.6010

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Chain	Atom inclusion	Q-score
a	0.9490	0.6010
b	0.9480	0.6020
c	0.9510	0.6020
d	0.9510	0.6020
e	0.9490	0.6030
f	0.9490	0.6020
g	0.9480	0.6020
h	0.9510	0.6030
i	0.9490	0.6010
j	0.9490	0.6010
k	0.9510	0.6020
l	0.9510	0.6010
m	0.9510	0.6020
n	0.9480	0.6010
o	0.9510	0.6020
p	0.9510	0.6020
q	0.9500	0.6010
r	0.9510	0.6000
s	0.9480	0.6010
t	0.9510	0.6030
u	0.9480	0.6030
v	0.9490	0.6010
w	0.9490	0.6020
x	0.9490	0.6010
y	0.9490	0.6020
z	0.9510	0.6020