



Full wwPDB EM Validation Report ⓘ

Mar 8, 2026 – 10:28 AM UTC

PDB ID : 8TEY / pdb_00008tey
EMDB ID : EMD-41209
Title : Avian Adeno-associated virus - empty capsid
Authors : Hsi, J.; Mietzsch, M.; Chipman, P.; Afione, S.; Zeher, A.; Huang, R.; Chiorini, J.; McKenna, R.
Deposited on : 2023-07-07
Resolution : 3.06 Å(reported)

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

We welcome your comments at validation@mail.wwpdb.org

A user guide is available at

<https://www.wwpdb.org/validation/2017/EMValidationReportHelp>
with specific help available everywhere you see the ⓘ symbol.

The types of validation reports are described at

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

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

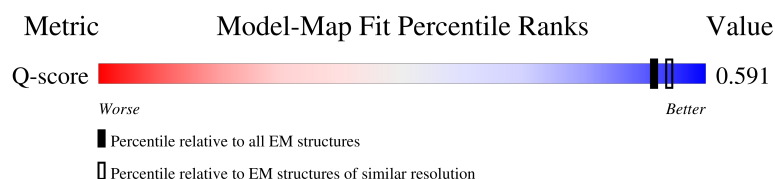
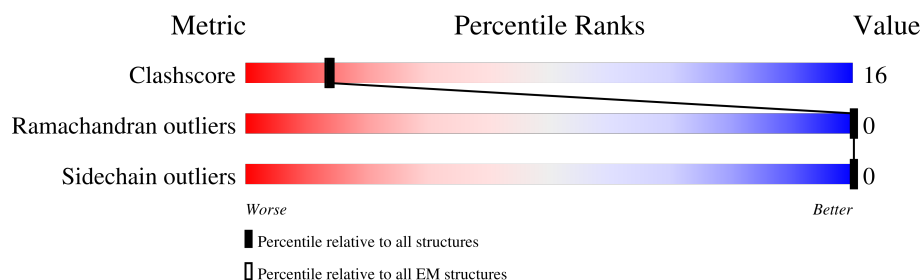
EMDB validation analysis : 0.0.1.dev132
Mogul : 2022.3.0, CSD as543be (2022)
MolProbity : 4-5-2 with Phenix2.0
Buster-report : wwPDB partial adaption of 1.1.7 (2018)
Percentile statistics : 20250101.v01 (using entries in the PDB archive January 1st 2025)
EM percentile statistics : 202505.v01 (Using data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

1 Overall quality at a glance

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

The reported resolution of this entry is 3.06 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	13976 (2.56 - 3.56)

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

Mol	Chain	Length	Quality of chain
1	1	535	 64% 33% .
1	2	535	 65% 32% .
1	3	535	 65% 32% .
1	4	535	 65% 32% .

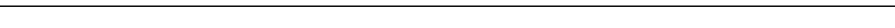
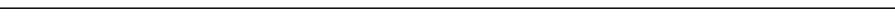
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Mol	Chain	Length	Quality of chain
1	5	535	 64% 33% .
1	6	535	 64% 33% .
1	7	535	 65% 32% .
1	8	535	 64% 33% .
1	A	535	 64% 33% .
1	B	535	 65% 32% .
1	C	535	 64% 33% .
1	D	535	 64% 33% .
1	E	535	 64% 33% .
1	F	535	 65% 32% .
1	G	535	 64% 33% .
1	H	535	 64% 33% .
1	I	535	 64% 33% .
1	J	535	 64% 33% .
1	K	535	 64% 33% .
1	L	535	 63% 34% .
1	M	535	 65% 32% .
1	N	535	 64% 33% .
1	O	535	 64% 33% .
1	P	535	 64% 33% .
1	Q	535	 64% 33% .
1	R	535	 64% 33% .
1	S	535	 64% 33% .
1	T	535	 64% 33% .
1	U	535	 65% 32% .

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Mol	Chain	Length	Quality of chain
1	V	535	 64% 33% .
1	W	535	 64% 33% .
1	X	535	 64% 33% .
1	Y	535	 64% 33% .
1	Z	535	 64% 33% .
1	a	535	 64% 33% .
1	b	535	 64% 33% .
1	c	535	 65% 32% .
1	d	535	 65% 32% .
1	e	535	 64% 33% .
1	f	535	 64% 33% .
1	g	535	 64% 33% .
1	h	535	 65% 32% .
1	i	535	 64% 33% .
1	j	535	 64% 33% .
1	k	535	 64% 33% .
1	l	535	 64% 33% .
1	m	535	 64% 33% .
1	n	535	 64% 33% .
1	o	535	 64% 33% .
1	p	535	 64% 33% .
1	q	535	 64% 33% .
1	r	535	 64% 33% .
1	s	535	 64% 33% .
1	t	535	 64% 33% .

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Mol	Chain	Length	Quality of chain
1	u	535	 64% 33% •
1	v	535	 64% 33% •
1	w	535	 64% 33% •
1	x	535	 64% 33% •
1	y	535	 65% 32% •
1	z	535	 63% 34% •

2 Entry composition [i](#)

There are 2 unique types of molecules in this entry. The entry contains 251280 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.

Mol	Chain	Residues	Atoms					AltConf	Trace
1	A	519	Total 4167	C 2642	N 725	O 786	S 14	0	0
1	B	519	Total 4167	C 2642	N 725	O 786	S 14	0	0
1	C	519	Total 4167	C 2642	N 725	O 786	S 14	0	0
1	D	519	Total 4167	C 2642	N 725	O 786	S 14	0	0
1	E	519	Total 4167	C 2642	N 725	O 786	S 14	0	0
1	F	519	Total 4167	C 2642	N 725	O 786	S 14	0	0
1	G	519	Total 4167	C 2642	N 725	O 786	S 14	0	0
1	H	519	Total 4167	C 2642	N 725	O 786	S 14	0	0
1	I	519	Total 4167	C 2642	N 725	O 786	S 14	0	0
1	J	519	Total 4167	C 2642	N 725	O 786	S 14	0	0
1	K	519	Total 4167	C 2642	N 725	O 786	S 14	0	0
1	L	519	Total 4167	C 2642	N 725	O 786	S 14	0	0
1	M	519	Total 4167	C 2642	N 725	O 786	S 14	0	0
1	N	519	Total 4167	C 2642	N 725	O 786	S 14	0	0
1	O	519	Total 4167	C 2642	N 725	O 786	S 14	0	0
1	P	519	Total 4167	C 2642	N 725	O 786	S 14	0	0
1	Q	519	Total 4167	C 2642	N 725	O 786	S 14	0	0

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Mol	Chain	Residues	Atoms					AltConf	Trace
1	R	519	Total 4167	C 2642	N 725	O 786	S 14	0	0
1	S	519	Total 4167	C 2642	N 725	O 786	S 14	0	0
1	T	519	Total 4167	C 2642	N 725	O 786	S 14	0	0
1	U	519	Total 4167	C 2642	N 725	O 786	S 14	0	0
1	V	519	Total 4167	C 2642	N 725	O 786	S 14	0	0
1	W	519	Total 4167	C 2642	N 725	O 786	S 14	0	0
1	X	519	Total 4167	C 2642	N 725	O 786	S 14	0	0
1	Y	519	Total 4167	C 2642	N 725	O 786	S 14	0	0
1	Z	519	Total 4167	C 2642	N 725	O 786	S 14	0	0
1	a	519	Total 4167	C 2642	N 725	O 786	S 14	0	0
1	b	519	Total 4167	C 2642	N 725	O 786	S 14	0	0
1	c	519	Total 4167	C 2642	N 725	O 786	S 14	0	0
1	d	519	Total 4167	C 2642	N 725	O 786	S 14	0	0
1	e	519	Total 4167	C 2642	N 725	O 786	S 14	0	0
1	f	519	Total 4167	C 2642	N 725	O 786	S 14	0	0
1	g	519	Total 4167	C 2642	N 725	O 786	S 14	0	0
1	h	519	Total 4167	C 2642	N 725	O 786	S 14	0	0
1	i	519	Total 4167	C 2642	N 725	O 786	S 14	0	0
1	j	519	Total 4167	C 2642	N 725	O 786	S 14	0	0
1	k	519	Total 4167	C 2642	N 725	O 786	S 14	0	0
1	l	519	Total 4167	C 2642	N 725	O 786	S 14	0	0

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Mol	Chain	Residues	Atoms					AltConf	Trace
1	m	519	Total 4167	C 2642	N 725	O 786	S 14	0	0
1	n	519	Total 4167	C 2642	N 725	O 786	S 14	0	0
1	o	519	Total 4167	C 2642	N 725	O 786	S 14	0	0
1	p	519	Total 4167	C 2642	N 725	O 786	S 14	0	0
1	q	519	Total 4167	C 2642	N 725	O 786	S 14	0	0
1	r	519	Total 4167	C 2642	N 725	O 786	S 14	0	0
1	s	519	Total 4167	C 2642	N 725	O 786	S 14	0	0
1	t	519	Total 4167	C 2642	N 725	O 786	S 14	0	0
1	u	519	Total 4167	C 2642	N 725	O 786	S 14	0	0
1	v	519	Total 4167	C 2642	N 725	O 786	S 14	0	0
1	w	519	Total 4167	C 2642	N 725	O 786	S 14	0	0
1	x	519	Total 4167	C 2642	N 725	O 786	S 14	0	0
1	y	519	Total 4167	C 2642	N 725	O 786	S 14	0	0
1	z	519	Total 4167	C 2642	N 725	O 786	S 14	0	0
1	1	519	Total 4167	C 2642	N 725	O 786	S 14	0	0
1	2	519	Total 4167	C 2642	N 725	O 786	S 14	0	0
1	3	519	Total 4167	C 2642	N 725	O 786	S 14	0	0
1	4	519	Total 4167	C 2642	N 725	O 786	S 14	0	0
1	5	519	Total 4167	C 2642	N 725	O 786	S 14	0	0
1	6	519	Total 4167	C 2642	N 725	O 786	S 14	0	0
1	7	519	Total 4167	C 2642	N 725	O 786	S 14	0	0

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Mol	Chain	Residues	Atoms					AltConf	Trace
1	8	519	Total	C	N	O	S	0	0
			4167	2642	725	786	14		

There are 480 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
A	334	SER	PHE	conflict	UNP Q7TG43
A	339	ALA	GLY	conflict	UNP Q7TG43
A	621	LEU	PRO	conflict	UNP Q7TG43
A	622	GLN	THR	conflict	UNP Q7TG43
A	624	PRO	THR	conflict	UNP Q7TG43
A	625	ILE	HIS	conflict	UNP Q7TG43
A	626	TRP	LEU	conflict	UNP Q7TG43
A	644	GLY	ARG	conflict	UNP Q7TG43
B	334	SER	PHE	conflict	UNP Q7TG43
B	339	ALA	GLY	conflict	UNP Q7TG43
B	621	LEU	PRO	conflict	UNP Q7TG43
B	622	GLN	THR	conflict	UNP Q7TG43
B	624	PRO	THR	conflict	UNP Q7TG43
B	625	ILE	HIS	conflict	UNP Q7TG43
B	626	TRP	LEU	conflict	UNP Q7TG43
B	644	GLY	ARG	conflict	UNP Q7TG43
C	334	SER	PHE	conflict	UNP Q7TG43
C	339	ALA	GLY	conflict	UNP Q7TG43
C	621	LEU	PRO	conflict	UNP Q7TG43
C	622	GLN	THR	conflict	UNP Q7TG43
C	624	PRO	THR	conflict	UNP Q7TG43
C	625	ILE	HIS	conflict	UNP Q7TG43
C	626	TRP	LEU	conflict	UNP Q7TG43
C	644	GLY	ARG	conflict	UNP Q7TG43
D	334	SER	PHE	conflict	UNP Q7TG43
D	339	ALA	GLY	conflict	UNP Q7TG43
D	621	LEU	PRO	conflict	UNP Q7TG43
D	622	GLN	THR	conflict	UNP Q7TG43
D	624	PRO	THR	conflict	UNP Q7TG43
D	625	ILE	HIS	conflict	UNP Q7TG43
D	626	TRP	LEU	conflict	UNP Q7TG43
D	644	GLY	ARG	conflict	UNP Q7TG43
E	334	SER	PHE	conflict	UNP Q7TG43
E	339	ALA	GLY	conflict	UNP Q7TG43
E	621	LEU	PRO	conflict	UNP Q7TG43
E	622	GLN	THR	conflict	UNP Q7TG43

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Chain	Residue	Modelled	Actual	Comment	Reference
E	624	PRO	THR	conflict	UNP Q7TG43
E	625	ILE	HIS	conflict	UNP Q7TG43
E	626	TRP	LEU	conflict	UNP Q7TG43
E	644	GLY	ARG	conflict	UNP Q7TG43
F	334	SER	PHE	conflict	UNP Q7TG43
F	339	ALA	GLY	conflict	UNP Q7TG43
F	621	LEU	PRO	conflict	UNP Q7TG43
F	622	GLN	THR	conflict	UNP Q7TG43
F	624	PRO	THR	conflict	UNP Q7TG43
F	625	ILE	HIS	conflict	UNP Q7TG43
F	626	TRP	LEU	conflict	UNP Q7TG43
F	644	GLY	ARG	conflict	UNP Q7TG43
G	334	SER	PHE	conflict	UNP Q7TG43
G	339	ALA	GLY	conflict	UNP Q7TG43
G	621	LEU	PRO	conflict	UNP Q7TG43
G	622	GLN	THR	conflict	UNP Q7TG43
G	624	PRO	THR	conflict	UNP Q7TG43
G	625	ILE	HIS	conflict	UNP Q7TG43
G	626	TRP	LEU	conflict	UNP Q7TG43
G	644	GLY	ARG	conflict	UNP Q7TG43
H	334	SER	PHE	conflict	UNP Q7TG43
H	339	ALA	GLY	conflict	UNP Q7TG43
H	621	LEU	PRO	conflict	UNP Q7TG43
H	622	GLN	THR	conflict	UNP Q7TG43
H	624	PRO	THR	conflict	UNP Q7TG43
H	625	ILE	HIS	conflict	UNP Q7TG43
H	626	TRP	LEU	conflict	UNP Q7TG43
H	644	GLY	ARG	conflict	UNP Q7TG43
I	334	SER	PHE	conflict	UNP Q7TG43
I	339	ALA	GLY	conflict	UNP Q7TG43
I	621	LEU	PRO	conflict	UNP Q7TG43
I	622	GLN	THR	conflict	UNP Q7TG43
I	624	PRO	THR	conflict	UNP Q7TG43
I	625	ILE	HIS	conflict	UNP Q7TG43
I	626	TRP	LEU	conflict	UNP Q7TG43
I	644	GLY	ARG	conflict	UNP Q7TG43
J	334	SER	PHE	conflict	UNP Q7TG43
J	339	ALA	GLY	conflict	UNP Q7TG43
J	621	LEU	PRO	conflict	UNP Q7TG43
J	622	GLN	THR	conflict	UNP Q7TG43
J	624	PRO	THR	conflict	UNP Q7TG43
J	625	ILE	HIS	conflict	UNP Q7TG43

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Chain	Residue	Modelled	Actual	Comment	Reference
J	626	TRP	LEU	conflict	UNP Q7TG43
J	644	GLY	ARG	conflict	UNP Q7TG43
K	334	SER	PHE	conflict	UNP Q7TG43
K	339	ALA	GLY	conflict	UNP Q7TG43
K	621	LEU	PRO	conflict	UNP Q7TG43
K	622	GLN	THR	conflict	UNP Q7TG43
K	624	PRO	THR	conflict	UNP Q7TG43
K	625	ILE	HIS	conflict	UNP Q7TG43
K	626	TRP	LEU	conflict	UNP Q7TG43
K	644	GLY	ARG	conflict	UNP Q7TG43
L	334	SER	PHE	conflict	UNP Q7TG43
L	339	ALA	GLY	conflict	UNP Q7TG43
L	621	LEU	PRO	conflict	UNP Q7TG43
L	622	GLN	THR	conflict	UNP Q7TG43
L	624	PRO	THR	conflict	UNP Q7TG43
L	625	ILE	HIS	conflict	UNP Q7TG43
L	626	TRP	LEU	conflict	UNP Q7TG43
L	644	GLY	ARG	conflict	UNP Q7TG43
M	334	SER	PHE	conflict	UNP Q7TG43
M	339	ALA	GLY	conflict	UNP Q7TG43
M	621	LEU	PRO	conflict	UNP Q7TG43
M	622	GLN	THR	conflict	UNP Q7TG43
M	624	PRO	THR	conflict	UNP Q7TG43
M	625	ILE	HIS	conflict	UNP Q7TG43
M	626	TRP	LEU	conflict	UNP Q7TG43
M	644	GLY	ARG	conflict	UNP Q7TG43
N	334	SER	PHE	conflict	UNP Q7TG43
N	339	ALA	GLY	conflict	UNP Q7TG43
N	621	LEU	PRO	conflict	UNP Q7TG43
N	622	GLN	THR	conflict	UNP Q7TG43
N	624	PRO	THR	conflict	UNP Q7TG43
N	625	ILE	HIS	conflict	UNP Q7TG43
N	626	TRP	LEU	conflict	UNP Q7TG43
N	644	GLY	ARG	conflict	UNP Q7TG43
O	334	SER	PHE	conflict	UNP Q7TG43
O	339	ALA	GLY	conflict	UNP Q7TG43
O	621	LEU	PRO	conflict	UNP Q7TG43
O	622	GLN	THR	conflict	UNP Q7TG43
O	624	PRO	THR	conflict	UNP Q7TG43
O	625	ILE	HIS	conflict	UNP Q7TG43
O	626	TRP	LEU	conflict	UNP Q7TG43
O	644	GLY	ARG	conflict	UNP Q7TG43

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Chain	Residue	Modelled	Actual	Comment	Reference
P	334	SER	PHE	conflict	UNP Q7TG43
P	339	ALA	GLY	conflict	UNP Q7TG43
P	621	LEU	PRO	conflict	UNP Q7TG43
P	622	GLN	THR	conflict	UNP Q7TG43
P	624	PRO	THR	conflict	UNP Q7TG43
P	625	ILE	HIS	conflict	UNP Q7TG43
P	626	TRP	LEU	conflict	UNP Q7TG43
P	644	GLY	ARG	conflict	UNP Q7TG43
Q	334	SER	PHE	conflict	UNP Q7TG43
Q	339	ALA	GLY	conflict	UNP Q7TG43
Q	621	LEU	PRO	conflict	UNP Q7TG43
Q	622	GLN	THR	conflict	UNP Q7TG43
Q	624	PRO	THR	conflict	UNP Q7TG43
Q	625	ILE	HIS	conflict	UNP Q7TG43
Q	626	TRP	LEU	conflict	UNP Q7TG43
Q	644	GLY	ARG	conflict	UNP Q7TG43
R	334	SER	PHE	conflict	UNP Q7TG43
R	339	ALA	GLY	conflict	UNP Q7TG43
R	621	LEU	PRO	conflict	UNP Q7TG43
R	622	GLN	THR	conflict	UNP Q7TG43
R	624	PRO	THR	conflict	UNP Q7TG43
R	625	ILE	HIS	conflict	UNP Q7TG43
R	626	TRP	LEU	conflict	UNP Q7TG43
R	644	GLY	ARG	conflict	UNP Q7TG43
S	334	SER	PHE	conflict	UNP Q7TG43
S	339	ALA	GLY	conflict	UNP Q7TG43
S	621	LEU	PRO	conflict	UNP Q7TG43
S	622	GLN	THR	conflict	UNP Q7TG43
S	624	PRO	THR	conflict	UNP Q7TG43
S	625	ILE	HIS	conflict	UNP Q7TG43
S	626	TRP	LEU	conflict	UNP Q7TG43
S	644	GLY	ARG	conflict	UNP Q7TG43
T	334	SER	PHE	conflict	UNP Q7TG43
T	339	ALA	GLY	conflict	UNP Q7TG43
T	621	LEU	PRO	conflict	UNP Q7TG43
T	622	GLN	THR	conflict	UNP Q7TG43
T	624	PRO	THR	conflict	UNP Q7TG43
T	625	ILE	HIS	conflict	UNP Q7TG43
T	626	TRP	LEU	conflict	UNP Q7TG43
T	644	GLY	ARG	conflict	UNP Q7TG43
U	334	SER	PHE	conflict	UNP Q7TG43
U	339	ALA	GLY	conflict	UNP Q7TG43

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Chain	Residue	Modelled	Actual	Comment	Reference
U	621	LEU	PRO	conflict	UNP Q7TG43
U	622	GLN	THR	conflict	UNP Q7TG43
U	624	PRO	THR	conflict	UNP Q7TG43
U	625	ILE	HIS	conflict	UNP Q7TG43
U	626	TRP	LEU	conflict	UNP Q7TG43
U	644	GLY	ARG	conflict	UNP Q7TG43
V	334	SER	PHE	conflict	UNP Q7TG43
V	339	ALA	GLY	conflict	UNP Q7TG43
V	621	LEU	PRO	conflict	UNP Q7TG43
V	622	GLN	THR	conflict	UNP Q7TG43
V	624	PRO	THR	conflict	UNP Q7TG43
V	625	ILE	HIS	conflict	UNP Q7TG43
V	626	TRP	LEU	conflict	UNP Q7TG43
V	644	GLY	ARG	conflict	UNP Q7TG43
W	334	SER	PHE	conflict	UNP Q7TG43
W	339	ALA	GLY	conflict	UNP Q7TG43
W	621	LEU	PRO	conflict	UNP Q7TG43
W	622	GLN	THR	conflict	UNP Q7TG43
W	624	PRO	THR	conflict	UNP Q7TG43
W	625	ILE	HIS	conflict	UNP Q7TG43
W	626	TRP	LEU	conflict	UNP Q7TG43
W	644	GLY	ARG	conflict	UNP Q7TG43
X	334	SER	PHE	conflict	UNP Q7TG43
X	339	ALA	GLY	conflict	UNP Q7TG43
X	621	LEU	PRO	conflict	UNP Q7TG43
X	622	GLN	THR	conflict	UNP Q7TG43
X	624	PRO	THR	conflict	UNP Q7TG43
X	625	ILE	HIS	conflict	UNP Q7TG43
X	626	TRP	LEU	conflict	UNP Q7TG43
X	644	GLY	ARG	conflict	UNP Q7TG43
Y	334	SER	PHE	conflict	UNP Q7TG43
Y	339	ALA	GLY	conflict	UNP Q7TG43
Y	621	LEU	PRO	conflict	UNP Q7TG43
Y	622	GLN	THR	conflict	UNP Q7TG43
Y	624	PRO	THR	conflict	UNP Q7TG43
Y	625	ILE	HIS	conflict	UNP Q7TG43
Y	626	TRP	LEU	conflict	UNP Q7TG43
Y	644	GLY	ARG	conflict	UNP Q7TG43
Z	334	SER	PHE	conflict	UNP Q7TG43
Z	339	ALA	GLY	conflict	UNP Q7TG43
Z	621	LEU	PRO	conflict	UNP Q7TG43
Z	622	GLN	THR	conflict	UNP Q7TG43

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Chain	Residue	Modelled	Actual	Comment	Reference
Z	624	PRO	THR	conflict	UNP Q7TG43
Z	625	ILE	HIS	conflict	UNP Q7TG43
Z	626	TRP	LEU	conflict	UNP Q7TG43
Z	644	GLY	ARG	conflict	UNP Q7TG43
a	334	SER	PHE	conflict	UNP Q7TG43
a	339	ALA	GLY	conflict	UNP Q7TG43
a	621	LEU	PRO	conflict	UNP Q7TG43
a	622	GLN	THR	conflict	UNP Q7TG43
a	624	PRO	THR	conflict	UNP Q7TG43
a	625	ILE	HIS	conflict	UNP Q7TG43
a	626	TRP	LEU	conflict	UNP Q7TG43
a	644	GLY	ARG	conflict	UNP Q7TG43
b	334	SER	PHE	conflict	UNP Q7TG43
b	339	ALA	GLY	conflict	UNP Q7TG43
b	621	LEU	PRO	conflict	UNP Q7TG43
b	622	GLN	THR	conflict	UNP Q7TG43
b	624	PRO	THR	conflict	UNP Q7TG43
b	625	ILE	HIS	conflict	UNP Q7TG43
b	626	TRP	LEU	conflict	UNP Q7TG43
b	644	GLY	ARG	conflict	UNP Q7TG43
c	334	SER	PHE	conflict	UNP Q7TG43
c	339	ALA	GLY	conflict	UNP Q7TG43
c	621	LEU	PRO	conflict	UNP Q7TG43
c	622	GLN	THR	conflict	UNP Q7TG43
c	624	PRO	THR	conflict	UNP Q7TG43
c	625	ILE	HIS	conflict	UNP Q7TG43
c	626	TRP	LEU	conflict	UNP Q7TG43
c	644	GLY	ARG	conflict	UNP Q7TG43
d	334	SER	PHE	conflict	UNP Q7TG43
d	339	ALA	GLY	conflict	UNP Q7TG43
d	621	LEU	PRO	conflict	UNP Q7TG43
d	622	GLN	THR	conflict	UNP Q7TG43
d	624	PRO	THR	conflict	UNP Q7TG43
d	625	ILE	HIS	conflict	UNP Q7TG43
d	626	TRP	LEU	conflict	UNP Q7TG43
d	644	GLY	ARG	conflict	UNP Q7TG43
e	334	SER	PHE	conflict	UNP Q7TG43
e	339	ALA	GLY	conflict	UNP Q7TG43
e	621	LEU	PRO	conflict	UNP Q7TG43
e	622	GLN	THR	conflict	UNP Q7TG43
e	624	PRO	THR	conflict	UNP Q7TG43
e	625	ILE	HIS	conflict	UNP Q7TG43

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Chain	Residue	Modelled	Actual	Comment	Reference
e	626	TRP	LEU	conflict	UNP Q7TG43
e	644	GLY	ARG	conflict	UNP Q7TG43
f	334	SER	PHE	conflict	UNP Q7TG43
f	339	ALA	GLY	conflict	UNP Q7TG43
f	621	LEU	PRO	conflict	UNP Q7TG43
f	622	GLN	THR	conflict	UNP Q7TG43
f	624	PRO	THR	conflict	UNP Q7TG43
f	625	ILE	HIS	conflict	UNP Q7TG43
f	626	TRP	LEU	conflict	UNP Q7TG43
f	644	GLY	ARG	conflict	UNP Q7TG43
g	334	SER	PHE	conflict	UNP Q7TG43
g	339	ALA	GLY	conflict	UNP Q7TG43
g	621	LEU	PRO	conflict	UNP Q7TG43
g	622	GLN	THR	conflict	UNP Q7TG43
g	624	PRO	THR	conflict	UNP Q7TG43
g	625	ILE	HIS	conflict	UNP Q7TG43
g	626	TRP	LEU	conflict	UNP Q7TG43
g	644	GLY	ARG	conflict	UNP Q7TG43
h	334	SER	PHE	conflict	UNP Q7TG43
h	339	ALA	GLY	conflict	UNP Q7TG43
h	621	LEU	PRO	conflict	UNP Q7TG43
h	622	GLN	THR	conflict	UNP Q7TG43
h	624	PRO	THR	conflict	UNP Q7TG43
h	625	ILE	HIS	conflict	UNP Q7TG43
h	626	TRP	LEU	conflict	UNP Q7TG43
h	644	GLY	ARG	conflict	UNP Q7TG43
i	334	SER	PHE	conflict	UNP Q7TG43
i	339	ALA	GLY	conflict	UNP Q7TG43
i	621	LEU	PRO	conflict	UNP Q7TG43
i	622	GLN	THR	conflict	UNP Q7TG43
i	624	PRO	THR	conflict	UNP Q7TG43
i	625	ILE	HIS	conflict	UNP Q7TG43
i	626	TRP	LEU	conflict	UNP Q7TG43
i	644	GLY	ARG	conflict	UNP Q7TG43
j	334	SER	PHE	conflict	UNP Q7TG43
j	339	ALA	GLY	conflict	UNP Q7TG43
j	621	LEU	PRO	conflict	UNP Q7TG43
j	622	GLN	THR	conflict	UNP Q7TG43
j	624	PRO	THR	conflict	UNP Q7TG43
j	625	ILE	HIS	conflict	UNP Q7TG43
j	626	TRP	LEU	conflict	UNP Q7TG43
j	644	GLY	ARG	conflict	UNP Q7TG43

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Chain	Residue	Modelled	Actual	Comment	Reference
k	334	SER	PHE	conflict	UNP Q7TG43
k	339	ALA	GLY	conflict	UNP Q7TG43
k	621	LEU	PRO	conflict	UNP Q7TG43
k	622	GLN	THR	conflict	UNP Q7TG43
k	624	PRO	THR	conflict	UNP Q7TG43
k	625	ILE	HIS	conflict	UNP Q7TG43
k	626	TRP	LEU	conflict	UNP Q7TG43
k	644	GLY	ARG	conflict	UNP Q7TG43
l	334	SER	PHE	conflict	UNP Q7TG43
l	339	ALA	GLY	conflict	UNP Q7TG43
l	621	LEU	PRO	conflict	UNP Q7TG43
l	622	GLN	THR	conflict	UNP Q7TG43
l	624	PRO	THR	conflict	UNP Q7TG43
l	625	ILE	HIS	conflict	UNP Q7TG43
l	626	TRP	LEU	conflict	UNP Q7TG43
l	644	GLY	ARG	conflict	UNP Q7TG43
m	334	SER	PHE	conflict	UNP Q7TG43
m	339	ALA	GLY	conflict	UNP Q7TG43
m	621	LEU	PRO	conflict	UNP Q7TG43
m	622	GLN	THR	conflict	UNP Q7TG43
m	624	PRO	THR	conflict	UNP Q7TG43
m	625	ILE	HIS	conflict	UNP Q7TG43
m	626	TRP	LEU	conflict	UNP Q7TG43
m	644	GLY	ARG	conflict	UNP Q7TG43
n	334	SER	PHE	conflict	UNP Q7TG43
n	339	ALA	GLY	conflict	UNP Q7TG43
n	621	LEU	PRO	conflict	UNP Q7TG43
n	622	GLN	THR	conflict	UNP Q7TG43
n	624	PRO	THR	conflict	UNP Q7TG43
n	625	ILE	HIS	conflict	UNP Q7TG43
n	626	TRP	LEU	conflict	UNP Q7TG43
n	644	GLY	ARG	conflict	UNP Q7TG43
o	334	SER	PHE	conflict	UNP Q7TG43
o	339	ALA	GLY	conflict	UNP Q7TG43
o	621	LEU	PRO	conflict	UNP Q7TG43
o	622	GLN	THR	conflict	UNP Q7TG43
o	624	PRO	THR	conflict	UNP Q7TG43
o	625	ILE	HIS	conflict	UNP Q7TG43
o	626	TRP	LEU	conflict	UNP Q7TG43
o	644	GLY	ARG	conflict	UNP Q7TG43
p	334	SER	PHE	conflict	UNP Q7TG43
p	339	ALA	GLY	conflict	UNP Q7TG43

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Chain	Residue	Modelled	Actual	Comment	Reference
p	621	LEU	PRO	conflict	UNP Q7TG43
p	622	GLN	THR	conflict	UNP Q7TG43
p	624	PRO	THR	conflict	UNP Q7TG43
p	625	ILE	HIS	conflict	UNP Q7TG43
p	626	TRP	LEU	conflict	UNP Q7TG43
p	644	GLY	ARG	conflict	UNP Q7TG43
q	334	SER	PHE	conflict	UNP Q7TG43
q	339	ALA	GLY	conflict	UNP Q7TG43
q	621	LEU	PRO	conflict	UNP Q7TG43
q	622	GLN	THR	conflict	UNP Q7TG43
q	624	PRO	THR	conflict	UNP Q7TG43
q	625	ILE	HIS	conflict	UNP Q7TG43
q	626	TRP	LEU	conflict	UNP Q7TG43
q	644	GLY	ARG	conflict	UNP Q7TG43
r	334	SER	PHE	conflict	UNP Q7TG43
r	339	ALA	GLY	conflict	UNP Q7TG43
r	621	LEU	PRO	conflict	UNP Q7TG43
r	622	GLN	THR	conflict	UNP Q7TG43
r	624	PRO	THR	conflict	UNP Q7TG43
r	625	ILE	HIS	conflict	UNP Q7TG43
r	626	TRP	LEU	conflict	UNP Q7TG43
r	644	GLY	ARG	conflict	UNP Q7TG43
s	334	SER	PHE	conflict	UNP Q7TG43
s	339	ALA	GLY	conflict	UNP Q7TG43
s	621	LEU	PRO	conflict	UNP Q7TG43
s	622	GLN	THR	conflict	UNP Q7TG43
s	624	PRO	THR	conflict	UNP Q7TG43
s	625	ILE	HIS	conflict	UNP Q7TG43
s	626	TRP	LEU	conflict	UNP Q7TG43
s	644	GLY	ARG	conflict	UNP Q7TG43
t	334	SER	PHE	conflict	UNP Q7TG43
t	339	ALA	GLY	conflict	UNP Q7TG43
t	621	LEU	PRO	conflict	UNP Q7TG43
t	622	GLN	THR	conflict	UNP Q7TG43
t	624	PRO	THR	conflict	UNP Q7TG43
t	625	ILE	HIS	conflict	UNP Q7TG43
t	626	TRP	LEU	conflict	UNP Q7TG43
t	644	GLY	ARG	conflict	UNP Q7TG43
u	334	SER	PHE	conflict	UNP Q7TG43
u	339	ALA	GLY	conflict	UNP Q7TG43
u	621	LEU	PRO	conflict	UNP Q7TG43
u	622	GLN	THR	conflict	UNP Q7TG43

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Chain	Residue	Modelled	Actual	Comment	Reference
u	624	PRO	THR	conflict	UNP Q7TG43
u	625	ILE	HIS	conflict	UNP Q7TG43
u	626	TRP	LEU	conflict	UNP Q7TG43
u	644	GLY	ARG	conflict	UNP Q7TG43
v	334	SER	PHE	conflict	UNP Q7TG43
v	339	ALA	GLY	conflict	UNP Q7TG43
v	621	LEU	PRO	conflict	UNP Q7TG43
v	622	GLN	THR	conflict	UNP Q7TG43
v	624	PRO	THR	conflict	UNP Q7TG43
v	625	ILE	HIS	conflict	UNP Q7TG43
v	626	TRP	LEU	conflict	UNP Q7TG43
v	644	GLY	ARG	conflict	UNP Q7TG43
w	334	SER	PHE	conflict	UNP Q7TG43
w	339	ALA	GLY	conflict	UNP Q7TG43
w	621	LEU	PRO	conflict	UNP Q7TG43
w	622	GLN	THR	conflict	UNP Q7TG43
w	624	PRO	THR	conflict	UNP Q7TG43
w	625	ILE	HIS	conflict	UNP Q7TG43
w	626	TRP	LEU	conflict	UNP Q7TG43
w	644	GLY	ARG	conflict	UNP Q7TG43
x	334	SER	PHE	conflict	UNP Q7TG43
x	339	ALA	GLY	conflict	UNP Q7TG43
x	621	LEU	PRO	conflict	UNP Q7TG43
x	622	GLN	THR	conflict	UNP Q7TG43
x	624	PRO	THR	conflict	UNP Q7TG43
x	625	ILE	HIS	conflict	UNP Q7TG43
x	626	TRP	LEU	conflict	UNP Q7TG43
x	644	GLY	ARG	conflict	UNP Q7TG43
y	334	SER	PHE	conflict	UNP Q7TG43
y	339	ALA	GLY	conflict	UNP Q7TG43
y	621	LEU	PRO	conflict	UNP Q7TG43
y	622	GLN	THR	conflict	UNP Q7TG43
y	624	PRO	THR	conflict	UNP Q7TG43
y	625	ILE	HIS	conflict	UNP Q7TG43
y	626	TRP	LEU	conflict	UNP Q7TG43
y	644	GLY	ARG	conflict	UNP Q7TG43
z	334	SER	PHE	conflict	UNP Q7TG43
z	339	ALA	GLY	conflict	UNP Q7TG43
z	621	LEU	PRO	conflict	UNP Q7TG43
z	622	GLN	THR	conflict	UNP Q7TG43
z	624	PRO	THR	conflict	UNP Q7TG43
z	625	ILE	HIS	conflict	UNP Q7TG43

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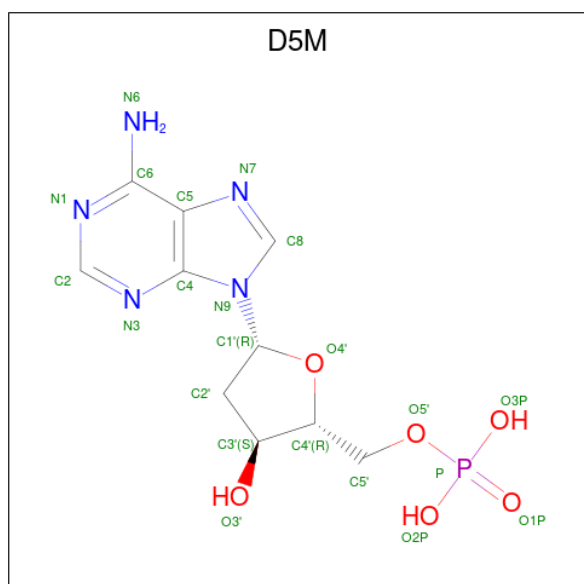
Chain	Residue	Modelled	Actual	Comment	Reference
z	626	TRP	LEU	conflict	UNP Q7TG43
z	644	GLY	ARG	conflict	UNP Q7TG43
1	334	SER	PHE	conflict	UNP Q7TG43
1	339	ALA	GLY	conflict	UNP Q7TG43
1	621	LEU	PRO	conflict	UNP Q7TG43
1	622	GLN	THR	conflict	UNP Q7TG43
1	624	PRO	THR	conflict	UNP Q7TG43
1	625	ILE	HIS	conflict	UNP Q7TG43
1	626	TRP	LEU	conflict	UNP Q7TG43
1	644	GLY	ARG	conflict	UNP Q7TG43
2	334	SER	PHE	conflict	UNP Q7TG43
2	339	ALA	GLY	conflict	UNP Q7TG43
2	621	LEU	PRO	conflict	UNP Q7TG43
2	622	GLN	THR	conflict	UNP Q7TG43
2	624	PRO	THR	conflict	UNP Q7TG43
2	625	ILE	HIS	conflict	UNP Q7TG43
2	626	TRP	LEU	conflict	UNP Q7TG43
2	644	GLY	ARG	conflict	UNP Q7TG43
3	334	SER	PHE	conflict	UNP Q7TG43
3	339	ALA	GLY	conflict	UNP Q7TG43
3	621	LEU	PRO	conflict	UNP Q7TG43
3	622	GLN	THR	conflict	UNP Q7TG43
3	624	PRO	THR	conflict	UNP Q7TG43
3	625	ILE	HIS	conflict	UNP Q7TG43
3	626	TRP	LEU	conflict	UNP Q7TG43
3	644	GLY	ARG	conflict	UNP Q7TG43
4	334	SER	PHE	conflict	UNP Q7TG43
4	339	ALA	GLY	conflict	UNP Q7TG43
4	621	LEU	PRO	conflict	UNP Q7TG43
4	622	GLN	THR	conflict	UNP Q7TG43
4	624	PRO	THR	conflict	UNP Q7TG43
4	625	ILE	HIS	conflict	UNP Q7TG43
4	626	TRP	LEU	conflict	UNP Q7TG43
4	644	GLY	ARG	conflict	UNP Q7TG43
5	334	SER	PHE	conflict	UNP Q7TG43
5	339	ALA	GLY	conflict	UNP Q7TG43
5	621	LEU	PRO	conflict	UNP Q7TG43
5	622	GLN	THR	conflict	UNP Q7TG43
5	624	PRO	THR	conflict	UNP Q7TG43
5	625	ILE	HIS	conflict	UNP Q7TG43
5	626	TRP	LEU	conflict	UNP Q7TG43
5	644	GLY	ARG	conflict	UNP Q7TG43

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Chain	Residue	Modelled	Actual	Comment	Reference
6	334	SER	PHE	conflict	UNP Q7TG43
6	339	ALA	GLY	conflict	UNP Q7TG43
6	621	LEU	PRO	conflict	UNP Q7TG43
6	622	GLN	THR	conflict	UNP Q7TG43
6	624	PRO	THR	conflict	UNP Q7TG43
6	625	ILE	HIS	conflict	UNP Q7TG43
6	626	TRP	LEU	conflict	UNP Q7TG43
6	644	GLY	ARG	conflict	UNP Q7TG43
7	334	SER	PHE	conflict	UNP Q7TG43
7	339	ALA	GLY	conflict	UNP Q7TG43
7	621	LEU	PRO	conflict	UNP Q7TG43
7	622	GLN	THR	conflict	UNP Q7TG43
7	624	PRO	THR	conflict	UNP Q7TG43
7	625	ILE	HIS	conflict	UNP Q7TG43
7	626	TRP	LEU	conflict	UNP Q7TG43
7	644	GLY	ARG	conflict	UNP Q7TG43
8	334	SER	PHE	conflict	UNP Q7TG43
8	339	ALA	GLY	conflict	UNP Q7TG43
8	621	LEU	PRO	conflict	UNP Q7TG43
8	622	GLN	THR	conflict	UNP Q7TG43
8	624	PRO	THR	conflict	UNP Q7TG43
8	625	ILE	HIS	conflict	UNP Q7TG43
8	626	TRP	LEU	conflict	UNP Q7TG43
8	644	GLY	ARG	conflict	UNP Q7TG43

- Molecule 2 is 2'-DEOXYADENOSINE-5'-MONOPHOSPHATE (CCD ID: D5M) (formula: $C_{10}H_{14}N_5O_6P$) (labeled as "Ligand of Interest" by depositor).



Mol	Chain	Residues	Atoms					AltConf
2	A	1	Total 21	C 10	N 5	O 5	P 1	0
2	B	1	Total 21	C 10	N 5	O 5	P 1	0
2	C	1	Total 21	C 10	N 5	O 5	P 1	0
2	D	1	Total 21	C 10	N 5	O 5	P 1	0
2	E	1	Total 21	C 10	N 5	O 5	P 1	0
2	F	1	Total 21	C 10	N 5	O 5	P 1	0
2	G	1	Total 21	C 10	N 5	O 5	P 1	0
2	H	1	Total 21	C 10	N 5	O 5	P 1	0
2	I	1	Total 21	C 10	N 5	O 5	P 1	0
2	J	1	Total 21	C 10	N 5	O 5	P 1	0
2	K	1	Total 21	C 10	N 5	O 5	P 1	0
2	L	1	Total 21	C 10	N 5	O 5	P 1	0
2	M	1	Total 21	C 10	N 5	O 5	P 1	0
2	N	1	Total 21	C 10	N 5	O 5	P 1	0
2	O	1	Total 21	C 10	N 5	O 5	P 1	0
2	P	1	Total 21	C 10	N 5	O 5	P 1	0
2	Q	1	Total 21	C 10	N 5	O 5	P 1	0
2	R	1	Total 21	C 10	N 5	O 5	P 1	0
2	S	1	Total 21	C 10	N 5	O 5	P 1	0
2	T	1	Total 21	C 10	N 5	O 5	P 1	0
2	U	1	Total 21	C 10	N 5	O 5	P 1	0
2	V	1	Total 21	C 10	N 5	O 5	P 1	0

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Mol	Chain	Residues	Atoms					AltConf
2	W	1	Total 21	C 10	N 5	O 5	P 1	0
2	X	1	Total 21	C 10	N 5	O 5	P 1	0
2	Y	1	Total 21	C 10	N 5	O 5	P 1	0
2	Z	1	Total 21	C 10	N 5	O 5	P 1	0
2	a	1	Total 21	C 10	N 5	O 5	P 1	0
2	b	1	Total 21	C 10	N 5	O 5	P 1	0
2	c	1	Total 21	C 10	N 5	O 5	P 1	0
2	d	1	Total 21	C 10	N 5	O 5	P 1	0
2	e	1	Total 21	C 10	N 5	O 5	P 1	0
2	f	1	Total 21	C 10	N 5	O 5	P 1	0
2	g	1	Total 21	C 10	N 5	O 5	P 1	0
2	h	1	Total 21	C 10	N 5	O 5	P 1	0
2	i	1	Total 21	C 10	N 5	O 5	P 1	0
2	j	1	Total 21	C 10	N 5	O 5	P 1	0
2	k	1	Total 21	C 10	N 5	O 5	P 1	0
2	l	1	Total 21	C 10	N 5	O 5	P 1	0
2	m	1	Total 21	C 10	N 5	O 5	P 1	0
2	n	1	Total 21	C 10	N 5	O 5	P 1	0
2	o	1	Total 21	C 10	N 5	O 5	P 1	0
2	p	1	Total 21	C 10	N 5	O 5	P 1	0
2	q	1	Total 21	C 10	N 5	O 5	P 1	0

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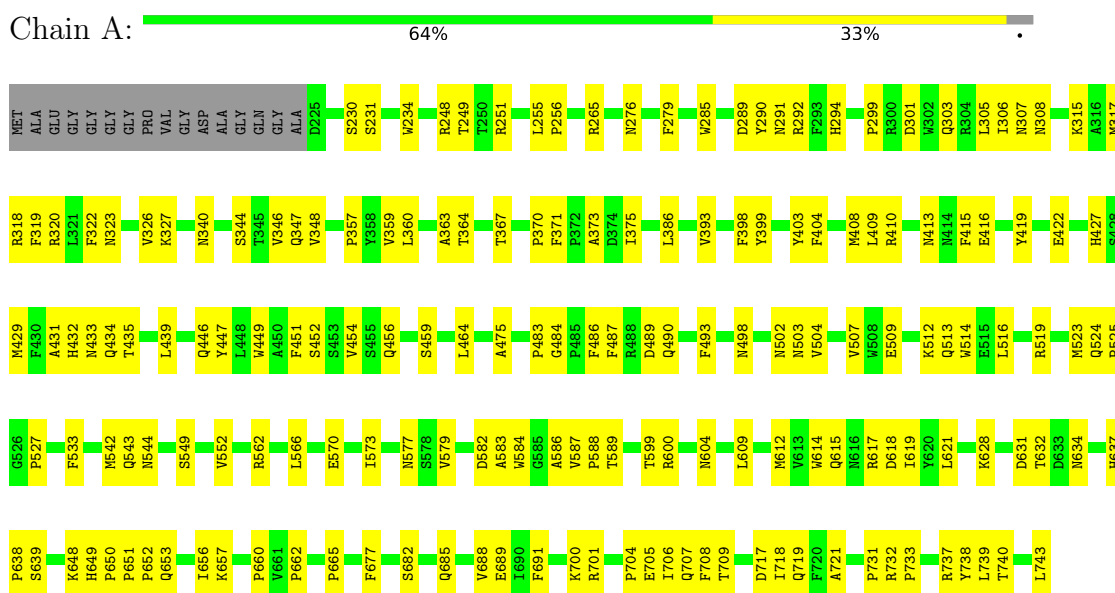
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Mol	Chain	Residues	Atoms					AltConf
2	r	1	Total 21	C 10	N 5	O 5	P 1	0
2	s	1	Total 21	C 10	N 5	O 5	P 1	0
2	t	1	Total 21	C 10	N 5	O 5	P 1	0
2	u	1	Total 21	C 10	N 5	O 5	P 1	0
2	v	1	Total 21	C 10	N 5	O 5	P 1	0
2	w	1	Total 21	C 10	N 5	O 5	P 1	0
2	x	1	Total 21	C 10	N 5	O 5	P 1	0
2	y	1	Total 21	C 10	N 5	O 5	P 1	0
2	z	1	Total 21	C 10	N 5	O 5	P 1	0
2	1	1	Total 21	C 10	N 5	O 5	P 1	0
2	2	1	Total 21	C 10	N 5	O 5	P 1	0
2	3	1	Total 21	C 10	N 5	O 5	P 1	0
2	4	1	Total 21	C 10	N 5	O 5	P 1	0
2	5	1	Total 21	C 10	N 5	O 5	P 1	0
2	6	1	Total 21	C 10	N 5	O 5	P 1	0
2	7	1	Total 21	C 10	N 5	O 5	P 1	0
2	8	1	Total 21	C 10	N 5	O 5	P 1	0

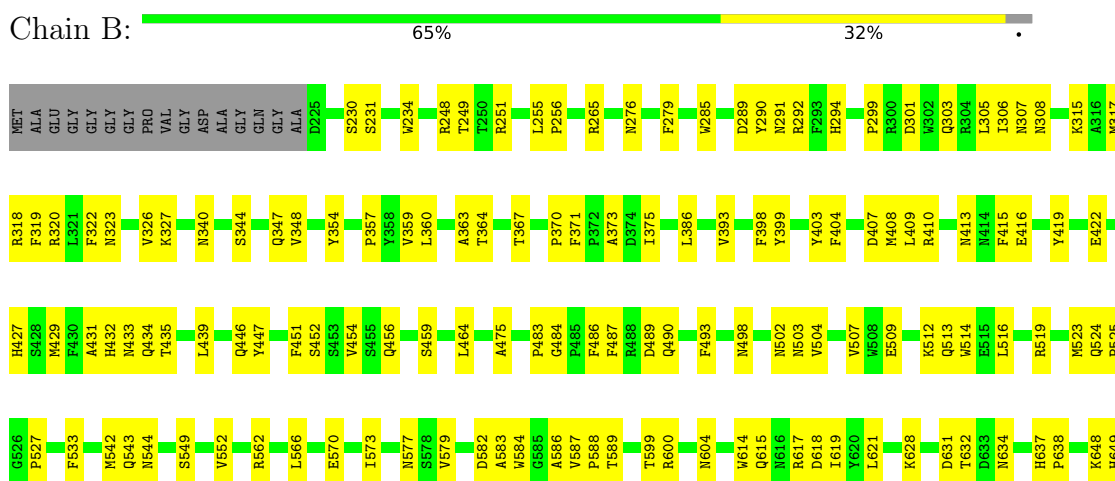
3 Residue-property plots

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

• Molecule 1: Capsid protein



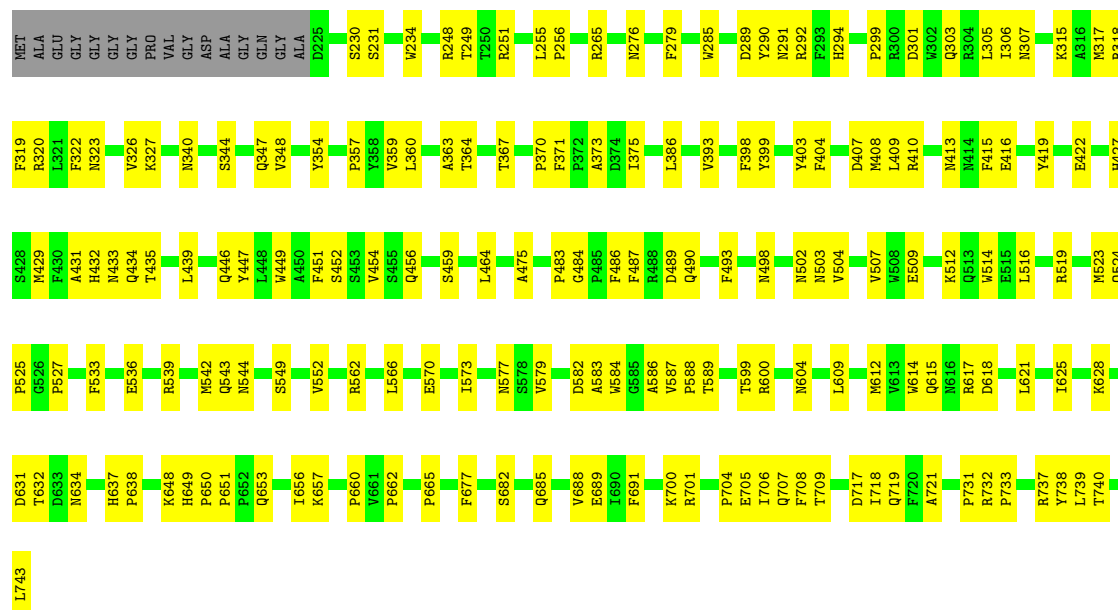
• Molecule 1: Capsid protein





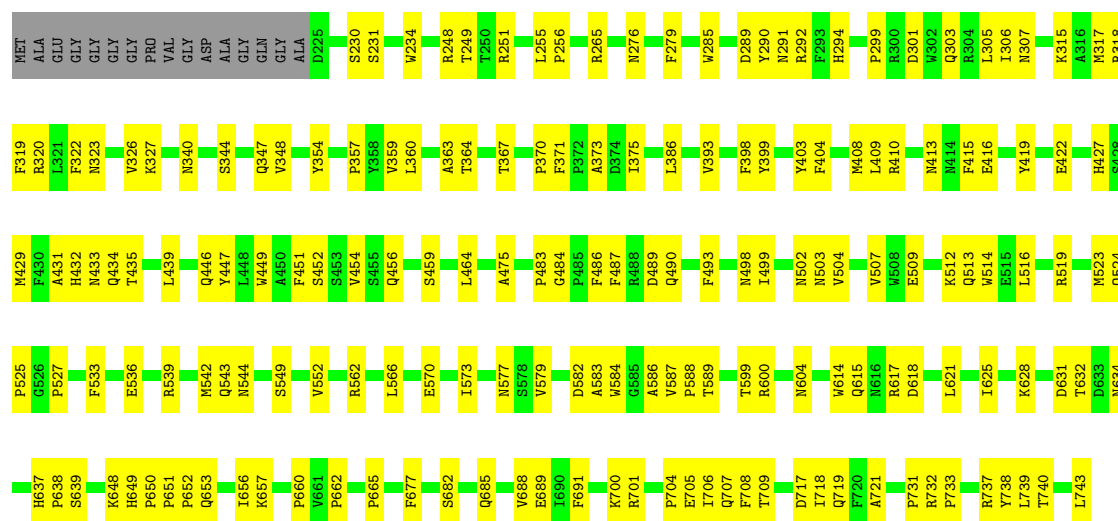
• Molecule 1: Capsid protein

Chain C: 64% 33% .



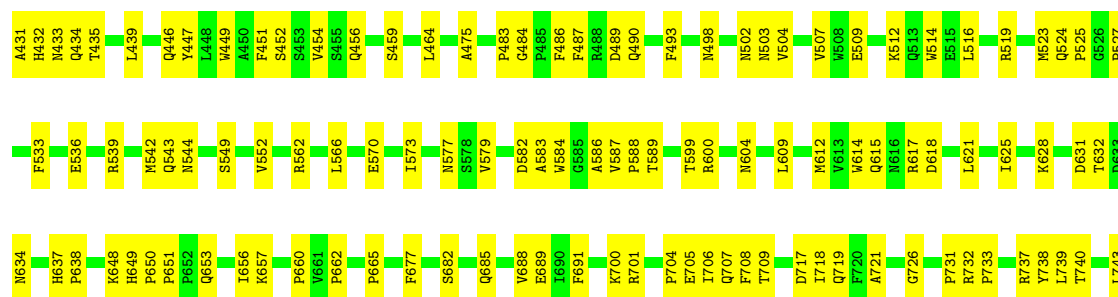
• Molecule 1: Capsid protein

Chain D: 64% 33% .



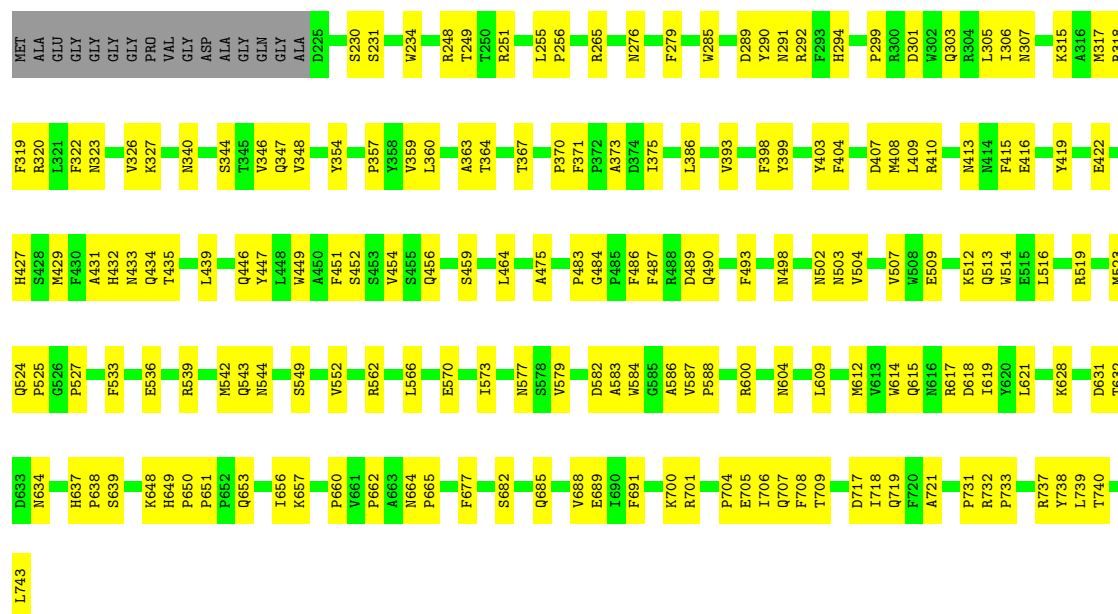
• Molecule 1: Capsid protein

Chain E: 64% 33% .



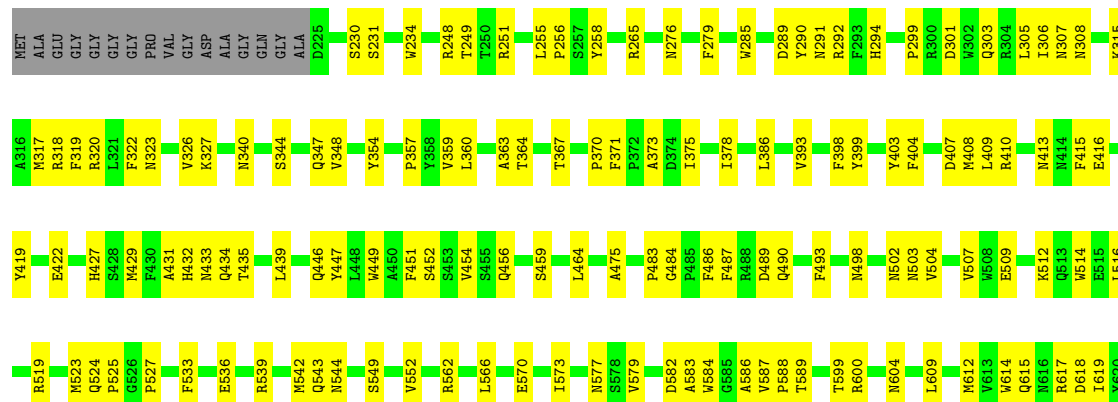
• Molecule 1: Capsid protein

Chain H: 64% 33%



• Molecule 1: Capsid protein

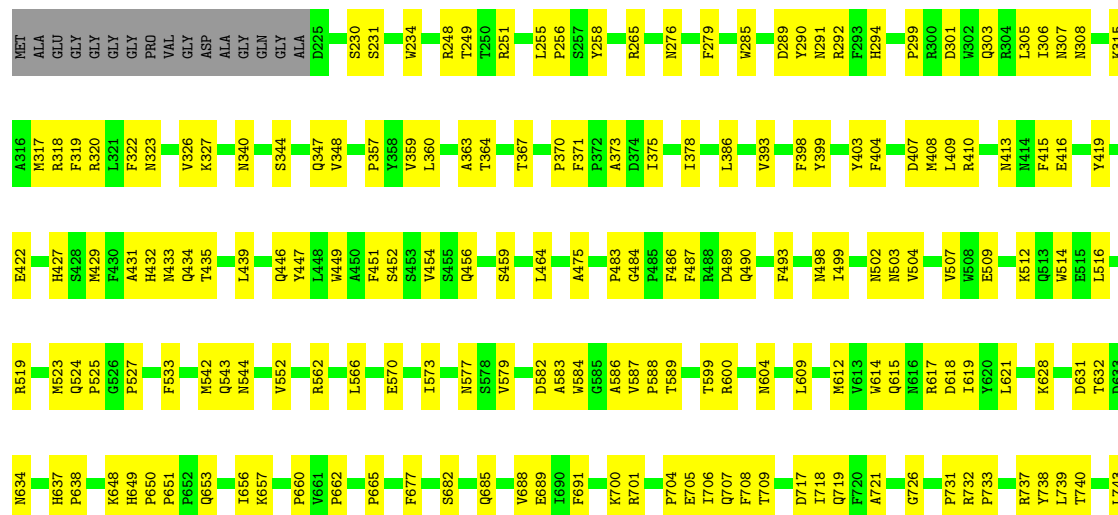
Chain I: 64% 33%





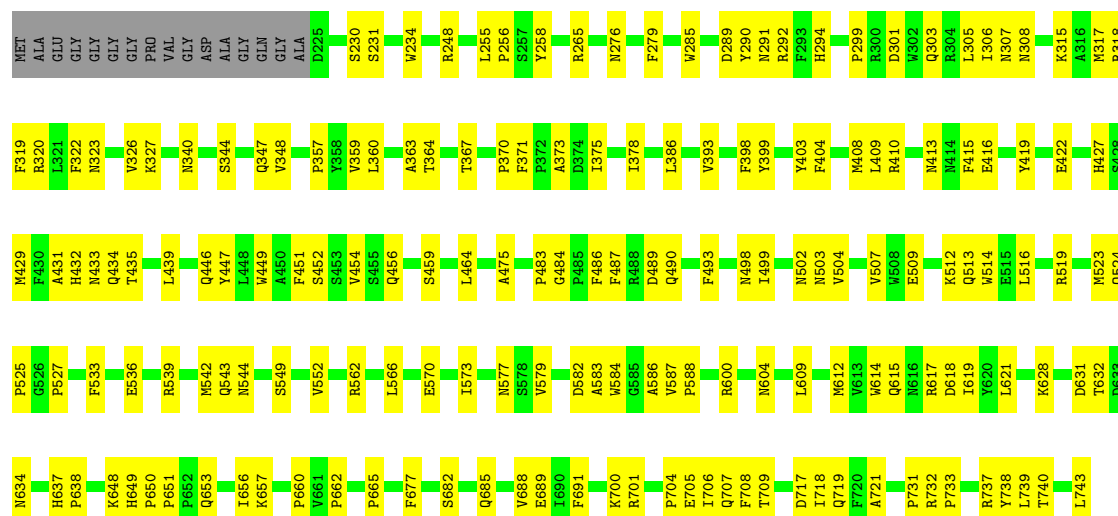
• Molecule 1: Capsid protein

Chain J: 64% 33%



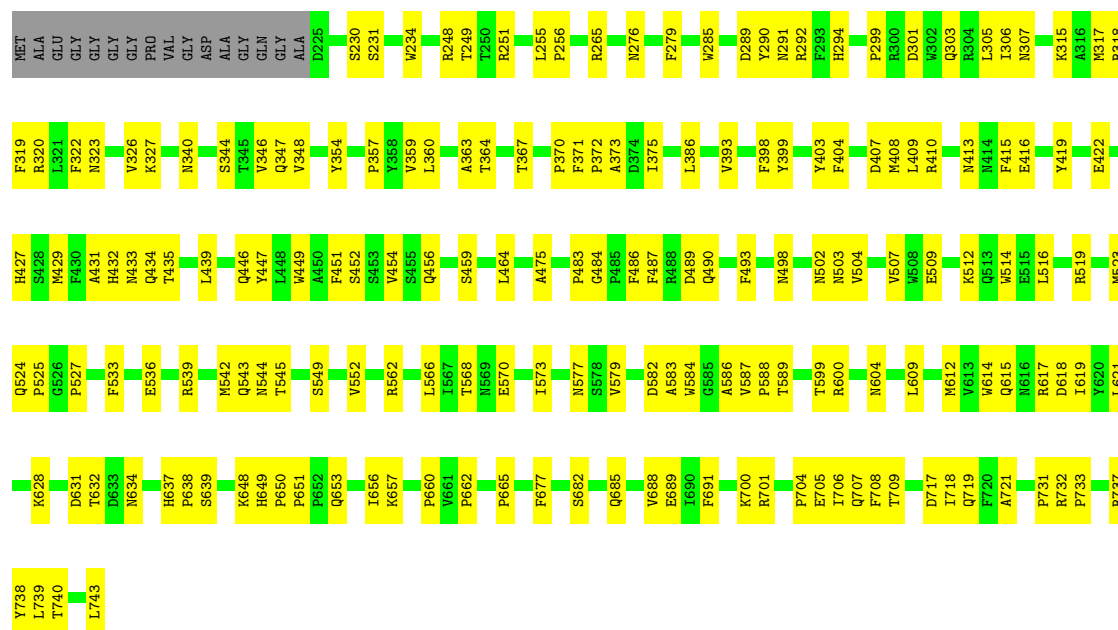
• Molecule 1: Capsid protein

Chain K: 64% 33%



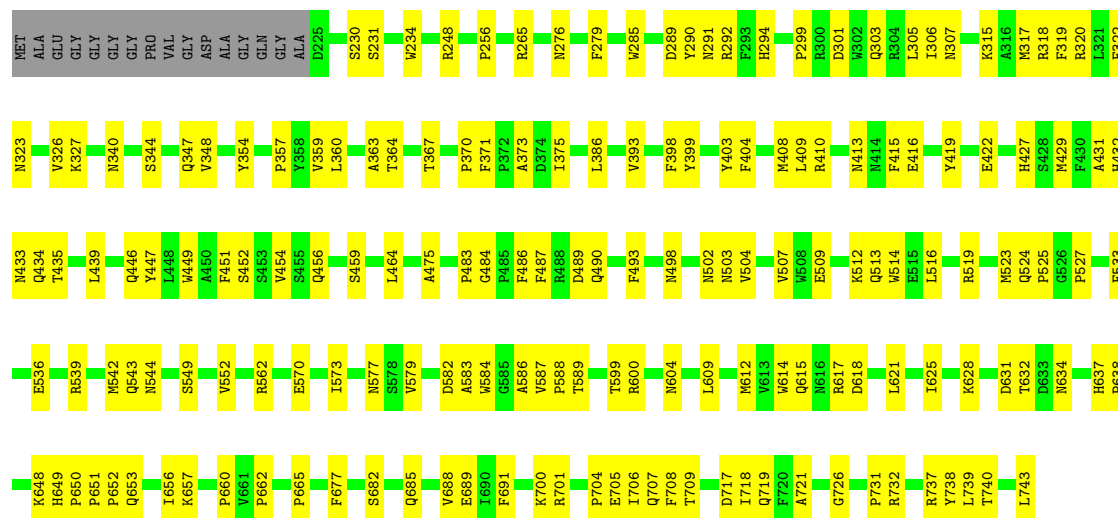
• Molecule 1: Capsid protein

Chain L: 63% 34%



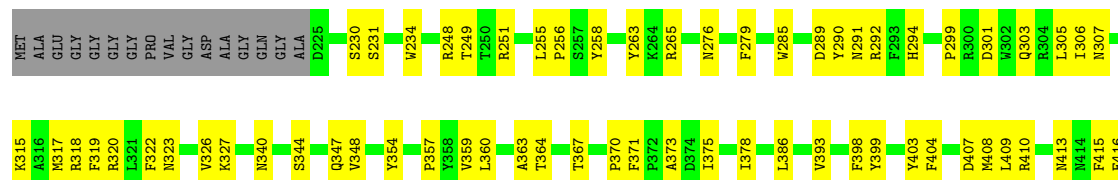
• Molecule 1: Capsid protein

Chain M: 65% 32% .



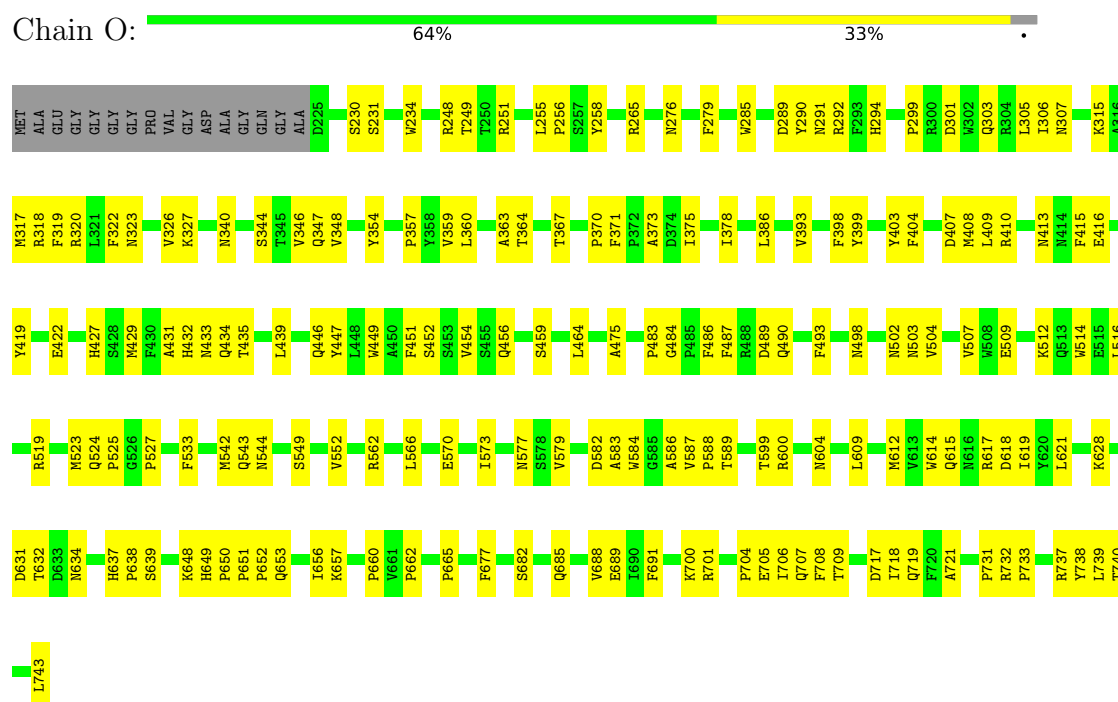
• Molecule 1: Capsid protein

Chain N: 64% 33% .

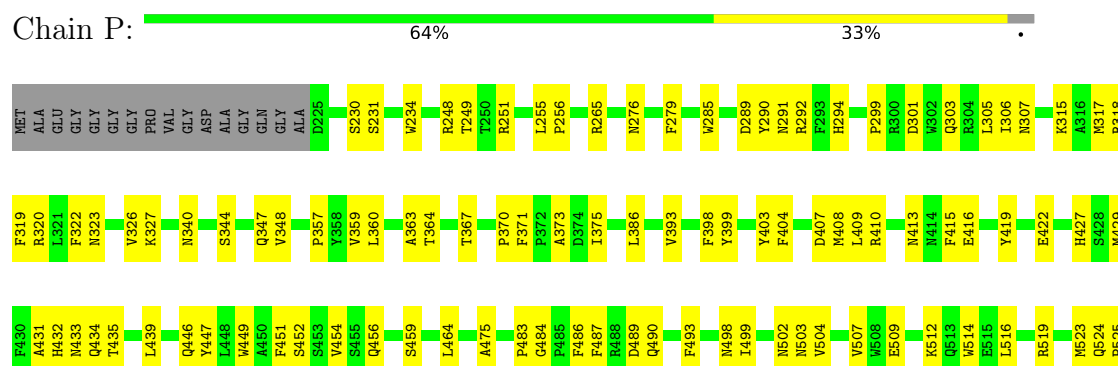


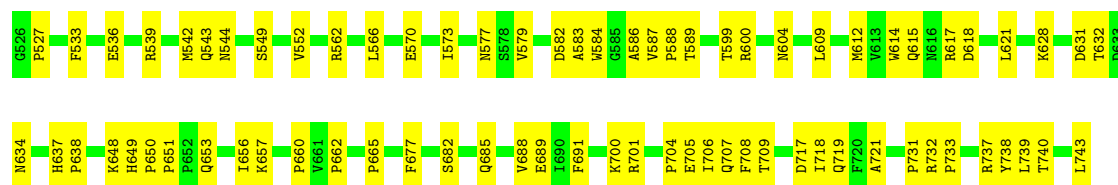


• Molecule 1: Capsid protein



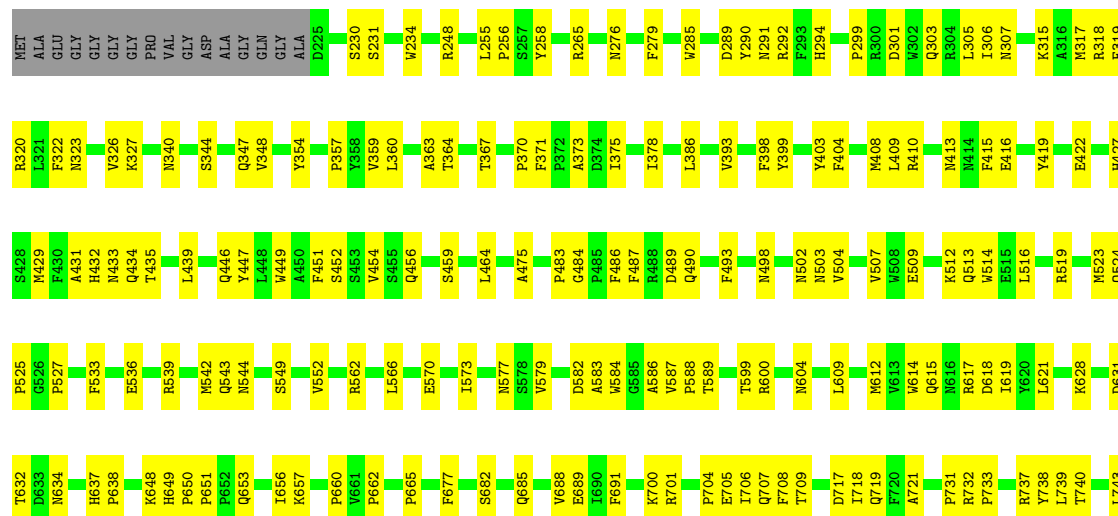
• Molecule 1: Capsid protein





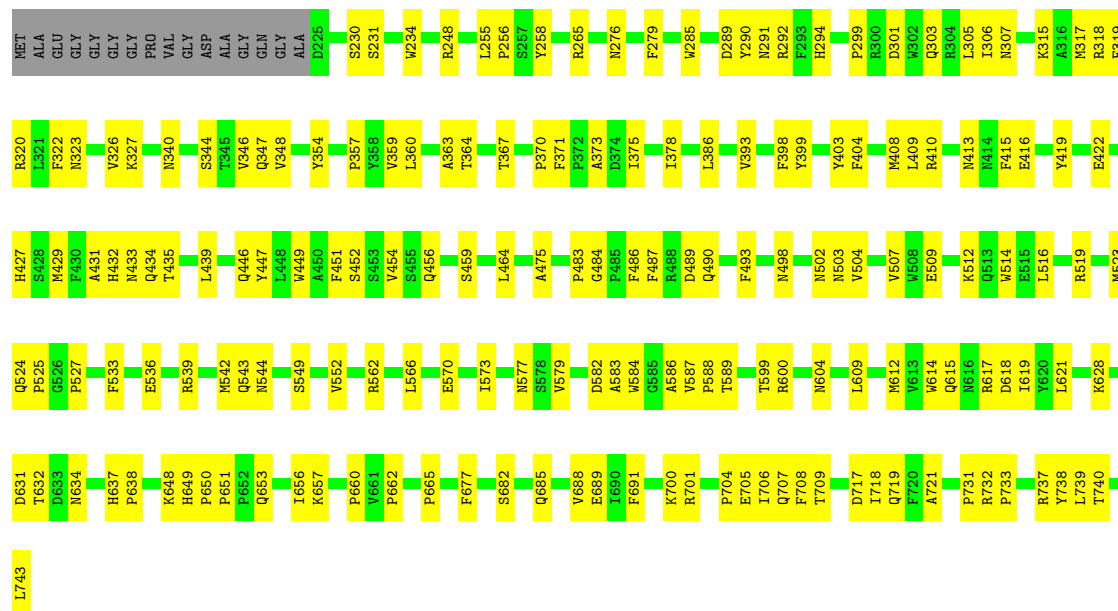
• Molecule 1: Capsid protein

Chain Q: 64% 33% .



• Molecule 1: Capsid protein

Chain R: 64% 33% .



• Molecule 1: Capsid protein

Chain S:  64% 33%

MET	ALA	GLU	GLY	GLY	GLY	PRO	VAL	GLY	ASP	ALA	GLY	GLN	GLY	ALA	D225	S230	S231	W234	R248	T249	T250	R251	P256	R265	N276	F279	W285	D289	Y290	N291	R292	F293	H294	P299	R300	D301	V302	Q303	R304	L305	T306	N307	K315	A316	R317	R318	F319
R320	L321	F322	N323	V326	K327	N340	S344	Q347	V348	Y354	P357	V358	V359	L360	A363	T364	T367	P370	F371	F372	A373	R374	L375	L386	V393	F398	Y399	Y403	F404	D407	M408	L409	R410	N413	M414	Q513	E416	Y419	E422	H427	S428						
M429	F430	A431	H432	Q434	T435	L439	Q446	Y447	W449	F451	S452	S453	Y454	S455	Q456	S459	A475	P483	Q484	F486	R488	Q489	Q490	F493	N498	L499	N502	N503	V504	V507	M508	E509	K512	Q513	W514	E515	L516	R519	M523	Q524							
P525	S526	P527	F533	E536	R539	M542	Q543	Y544	S549	V552	R562	L566	E570	I573	N577	S578	V579	D582	A583	F486	R488	Q490	F493	N498	L499	N502	N503	V504	V507	M508	E509	K512	Q513	W514	E515	L516	R519	M523	Q524								
T632	D633	N634	H637	P638	K648	H649	P650	P651	P652	Q653	I656	K657	P660	V661	P662	P665	F677	S682	Q685	V688	E689	T690	F691	K700	R701	P704	E705	I706	Q707	F708	T709	D717	I718	Q719	A721	P731	R732	P733	Y737	L739	T740	L743					

• Molecule 1: Capsid protein

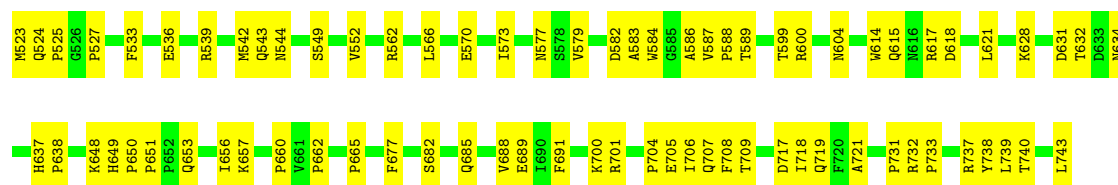
Chain T:  64% 33%

MET	ALA	R318	H427	Q524	T632
	GLU	F319	S428	P525	D633
	GLY	R320	M429	G526	N634
	GLY	L321	F430	P527	H637
	GLY	F322	A431	F533	P638
	GLY	N323	H432	E536	K648
	PRO	V326	A433	R539	H649
	VAL	K327	Q434	P650	P651
	GLY	T435	T435	P652	Q653
	ASP	N340	L439	M542	I656
ALA	S344	Q446	Q543	K657	
GLN	Q347	Y447	N544	P660	
GLY	Q347	L448	S549	V661	
ALA	V348	W449	V552	P662	
D225		Y354	F451	R562	P665
	S230	P357	S453	L566	F677
	S231	V358	V454	E570	S682
	W234	V359	S455	I573	Q685
		L360	Q456	N577	V688
	R248			S578	E689
	T249	A363	S489	V579	F691
	T250	T364	L464	D582	K700
	R251	T367	A475	A583	R701
				F584	E705
P256			G585	I706	
Y263	P370	P483	A586	Q707	
K264	F371	Q484	V587	F708	
R265	K264	F485	P588	T709	
	D374	F486	T589	D717	
W276	L375	F487	E589	I718	
		R488	L609	Q719	
F279	L386	D489	M612	A721	
W285	Q490	Q490	V613	P731	
	V393	F493	Q615	R732	
D289	F398	N498	W616	P733	
Y290	Y399		R617		
N291	N291	N502	D618	R737	
R292	Y403	N503	L621	Y738	
F293	F404	V504	K628	L739	
H294				T740	
	D407	V507	P523	L743	
P299	M408	M508			
R300	L409	E509			
D301	R410				
W302					
Q303	M413	K512			
R304	M414	Q513			
L305	F415	W514			
L306	E416	E515			
N307		L516			
	Y419	R519			
K315					
A316	E422	M523			
R317					

• Molecule 1: Capsid protein

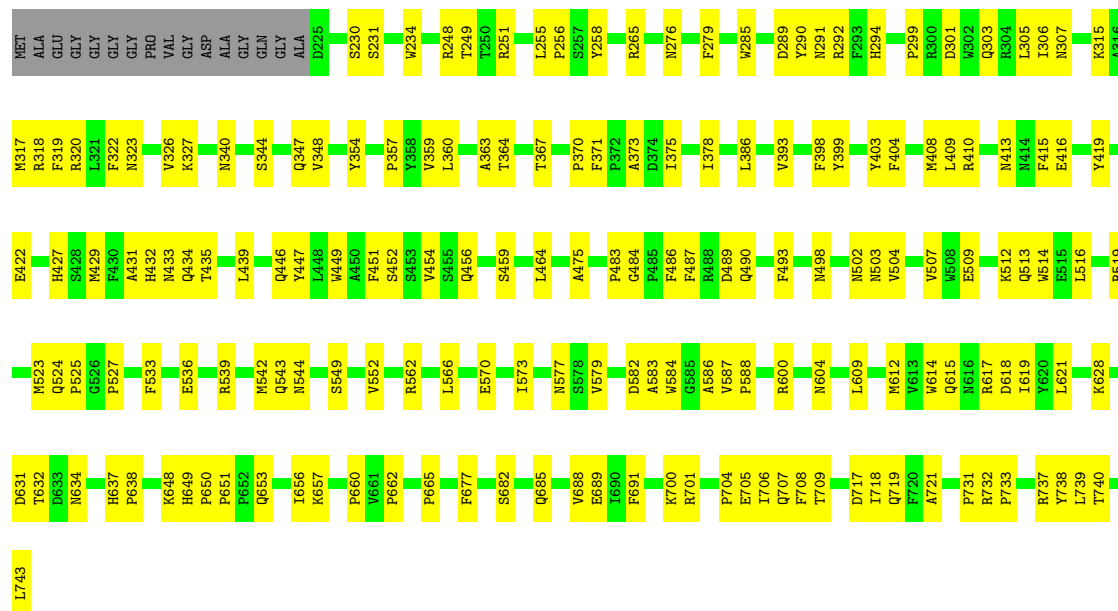
Chain U:  65% 32%

MET	ALA	GLU	GLY	GLY	GLY	PRO	VAL	GLY	ASP	ALA	GLY	GLN	GLY	ALA	D225	S230	S231	W234	R248	L255	P256	S257	Y258	R265	N276	F279	W285	D289	Y290	N291	R292	F293	H294	P299	R300	D301	W302	Q303	R304	L305	T306	N307	K315	A316	R317	R318	F319
H427	S428	M429	F430	A431	H432	M433	Q434	T435	L439	Q446	Y447	W449	F451	S452	S453	Y454	S455	Q456	S459	A464	A475	P483	P485	F486	R487	R488	D489	Q490	F493	M498	L499	N502	N503	V504	V507	M508	E509	K512	Q513	W514	E515	L516	R519	M523			
R320	L321	F322	N323	V326	K327	N340	S344	Q347	V348	Y354	P357	V358	V359	L360	A363	T364	T367	P370	F371	F372	A373	R374	L375	L378	L386	V393	F398	Y399	Y403	F404	D407	M408	L409	R410	N413	M414	Q415	E416	Y419	E422	H427	S428					



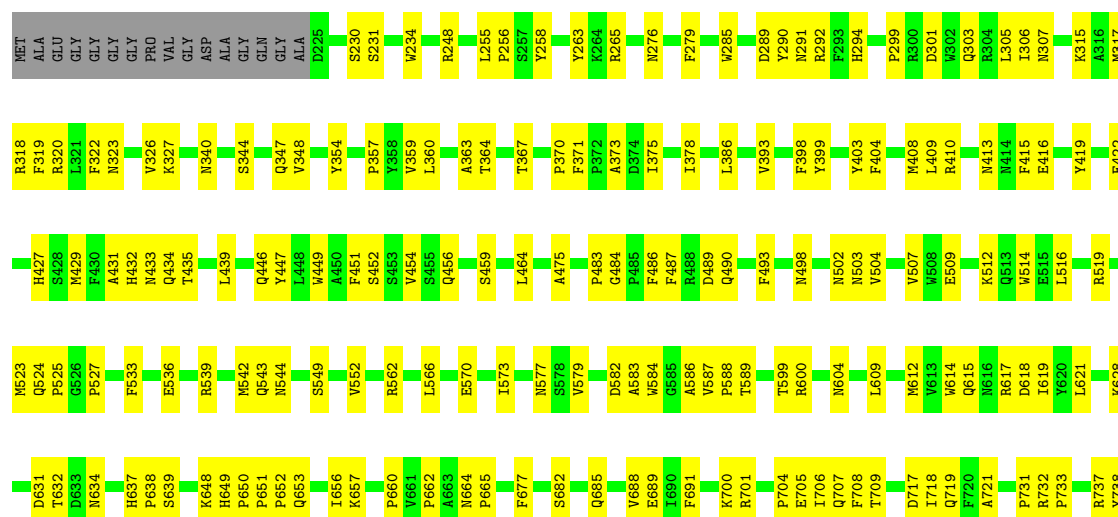
• Molecule 1: Capsid protein

Chain V: 64% 33%



• Molecule 1: Capsid protein

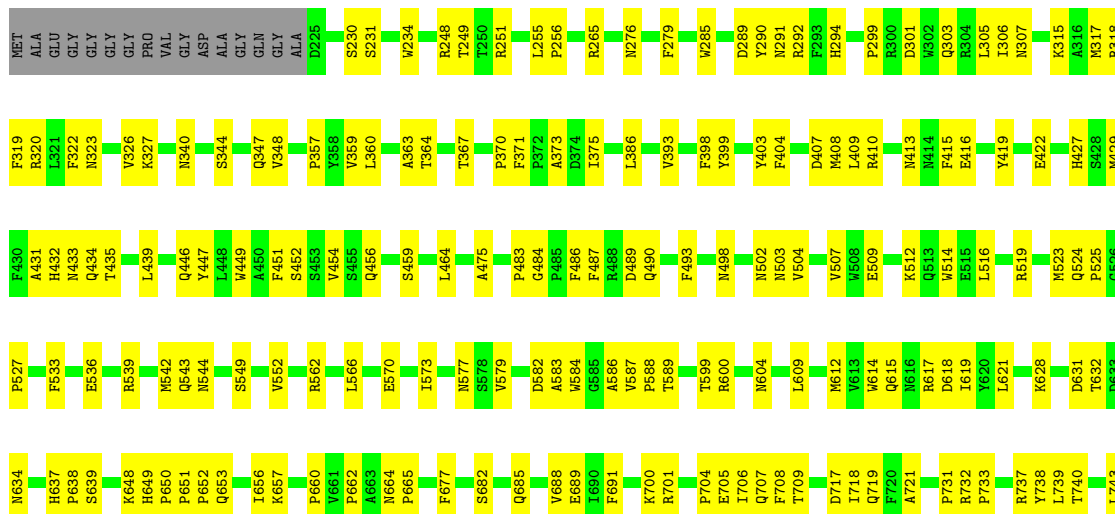
Chain W: 64% 33%



L739
T740
L743

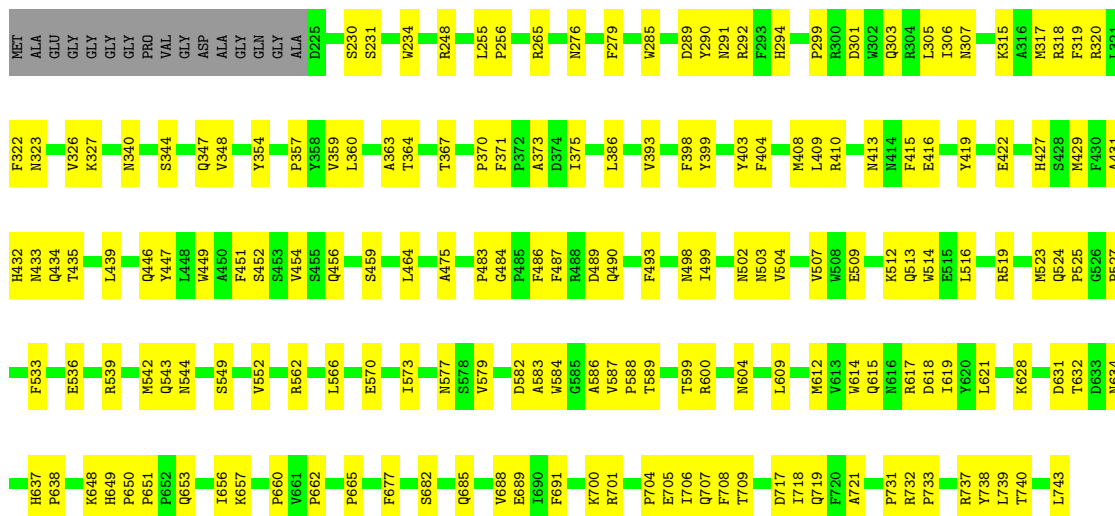
• Molecule 1: Capsid protein

Chain X:  64% 33%



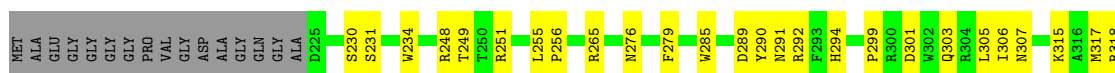
• Molecule 1: Capsid protein

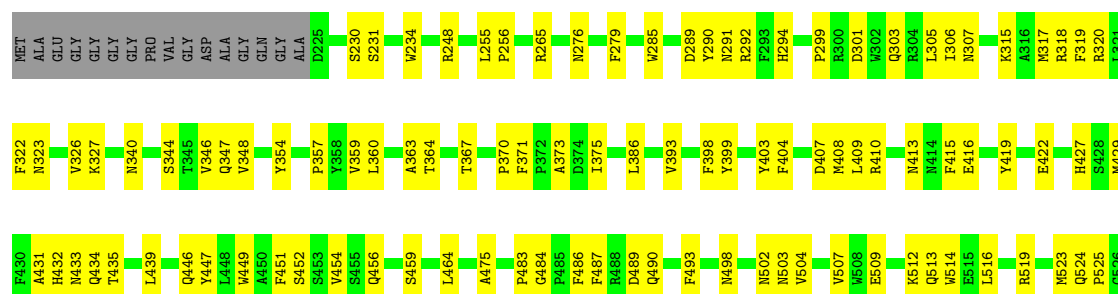
Chain Y:  64% 33%

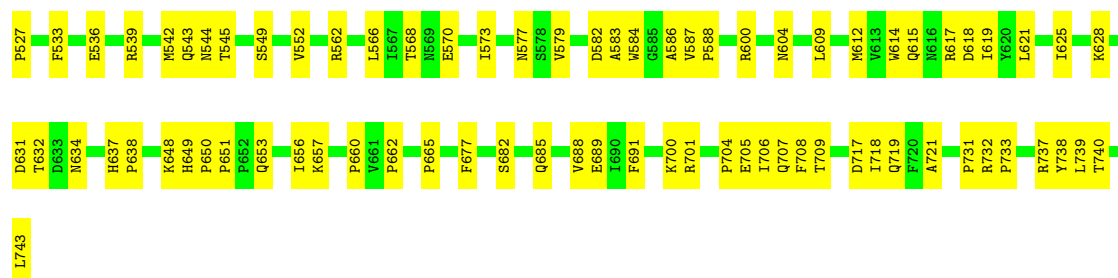


• Molecule 1: Capsid protein

Chain Z:  64% 33%

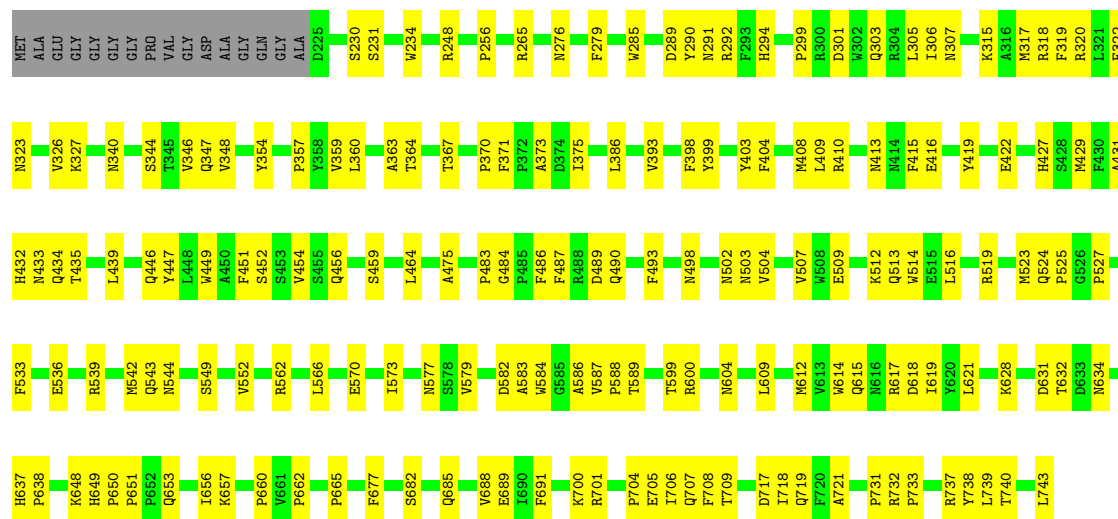






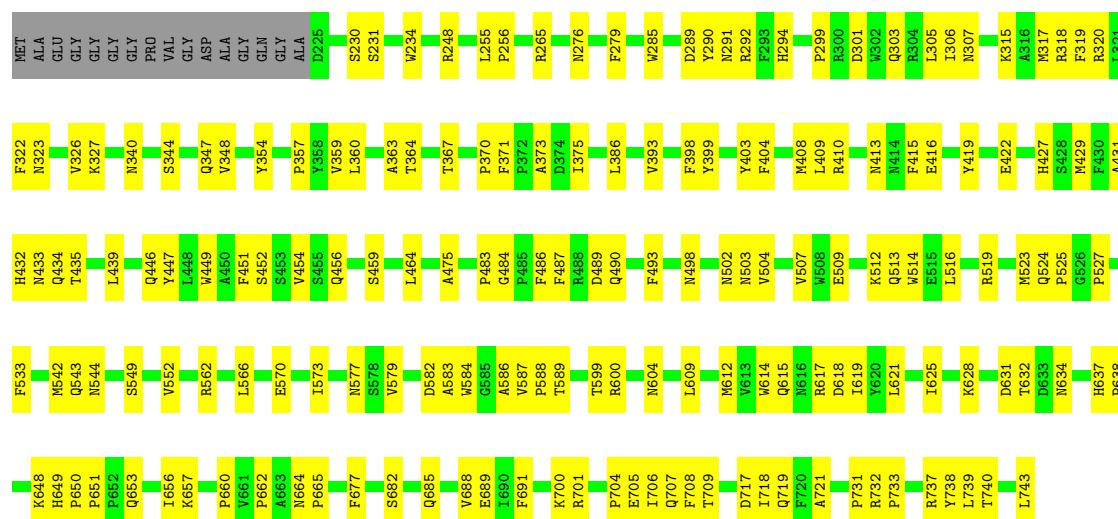
• Molecule 1: Capsid protein

Chain c: 65% 32% .



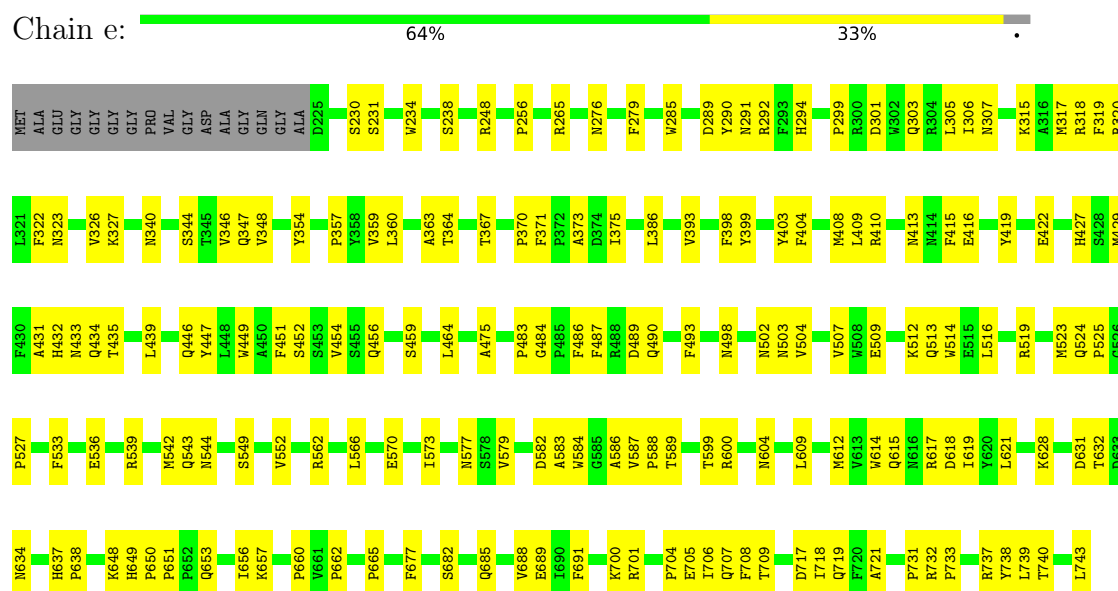
• Molecule 1: Capsid protein

Chain d: 65% 32% .



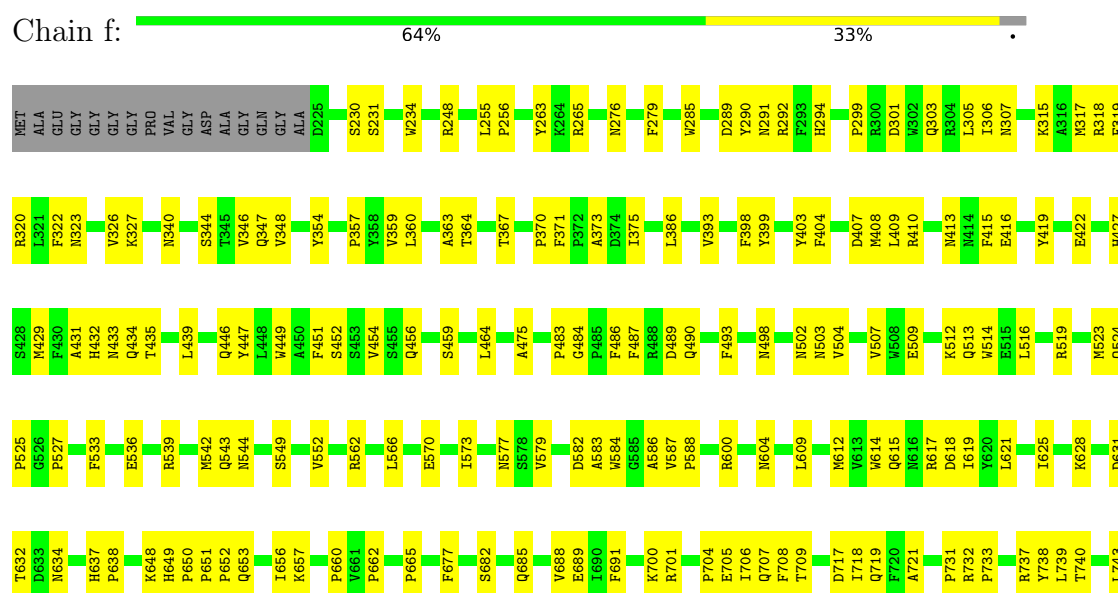
• Molecule 1: Capsid protein

Chain e:



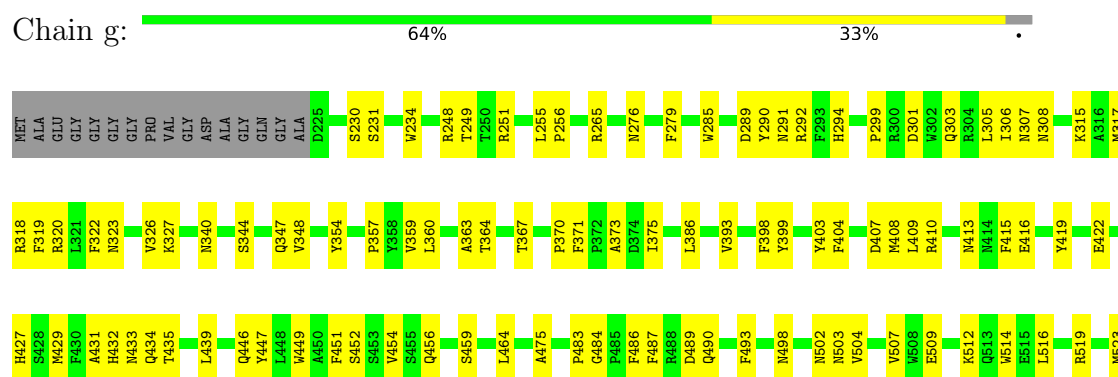
• Molecule 1: Capsid protein

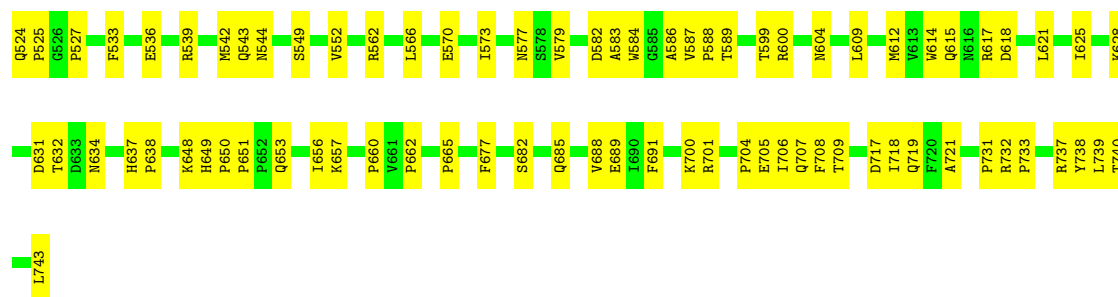
Chain f:



• Molecule 1: Capsid protein

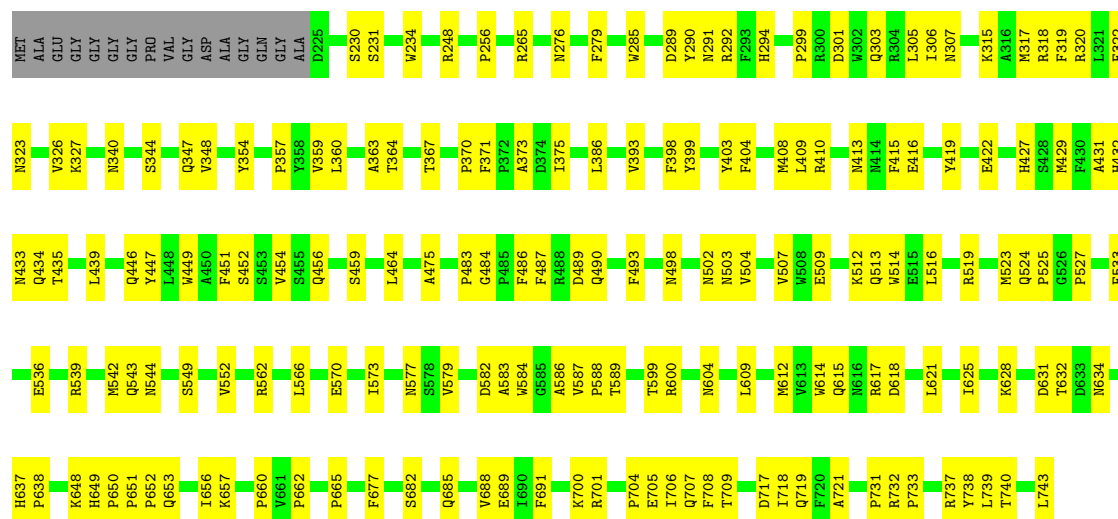
Chain g:





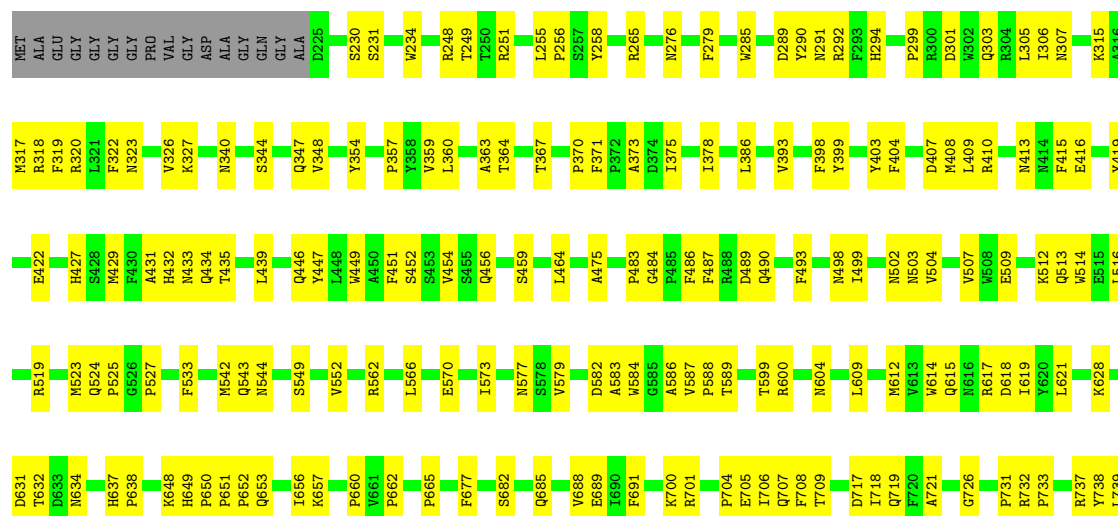
- Molecule 1: Capsid protein

Chain h: 65% 32%



- Molecule 1: Capsid protein

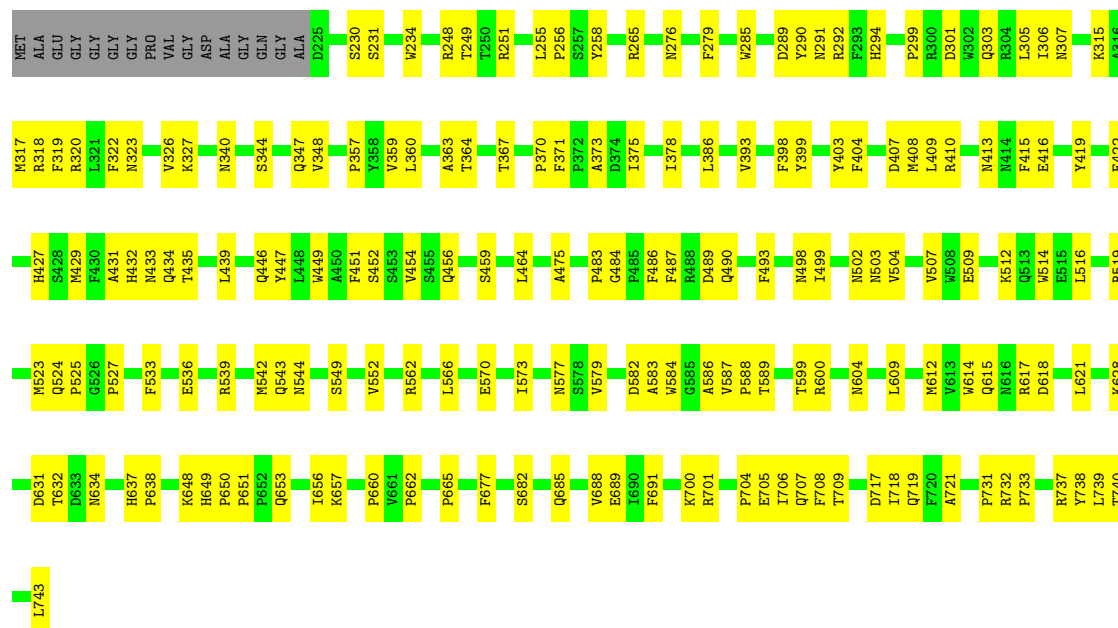
Chain i: 64% 33%



T740
L743

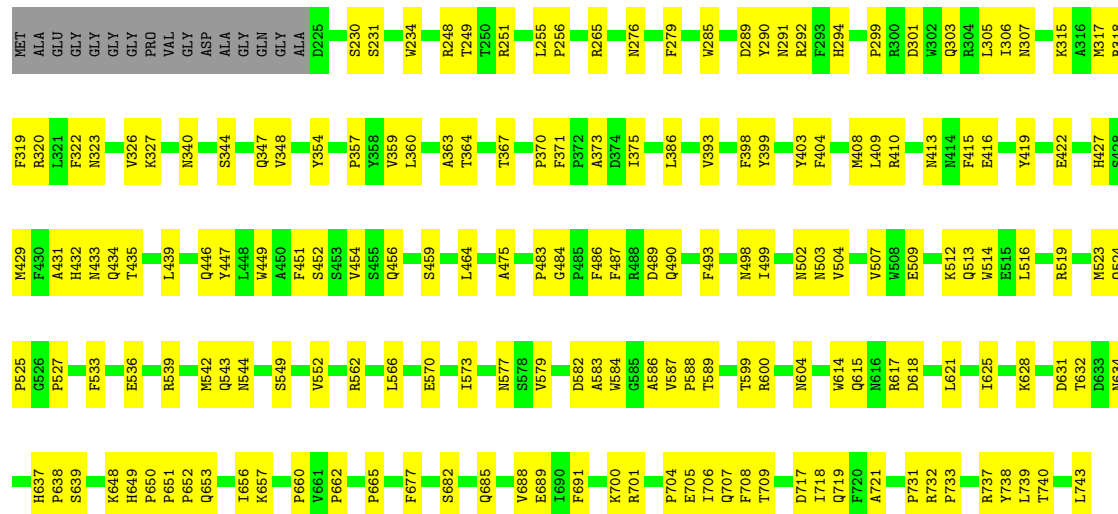
• Molecule 1: Capsid protein

Chain j:  64% 33%



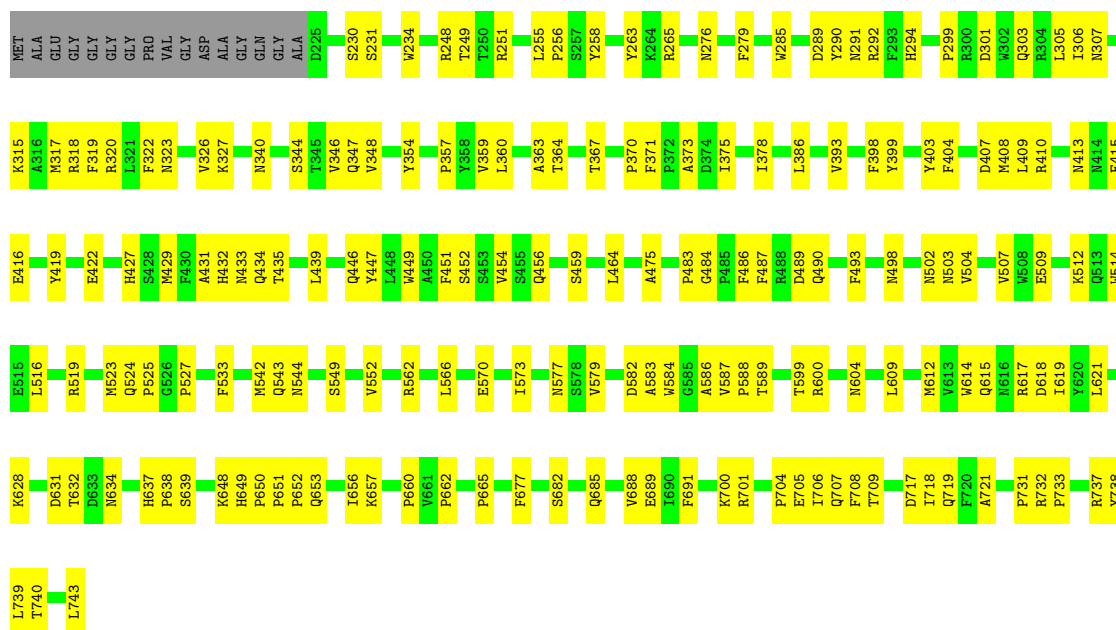
• Molecule 1: Capsid protein

Chain k:  64% 33%



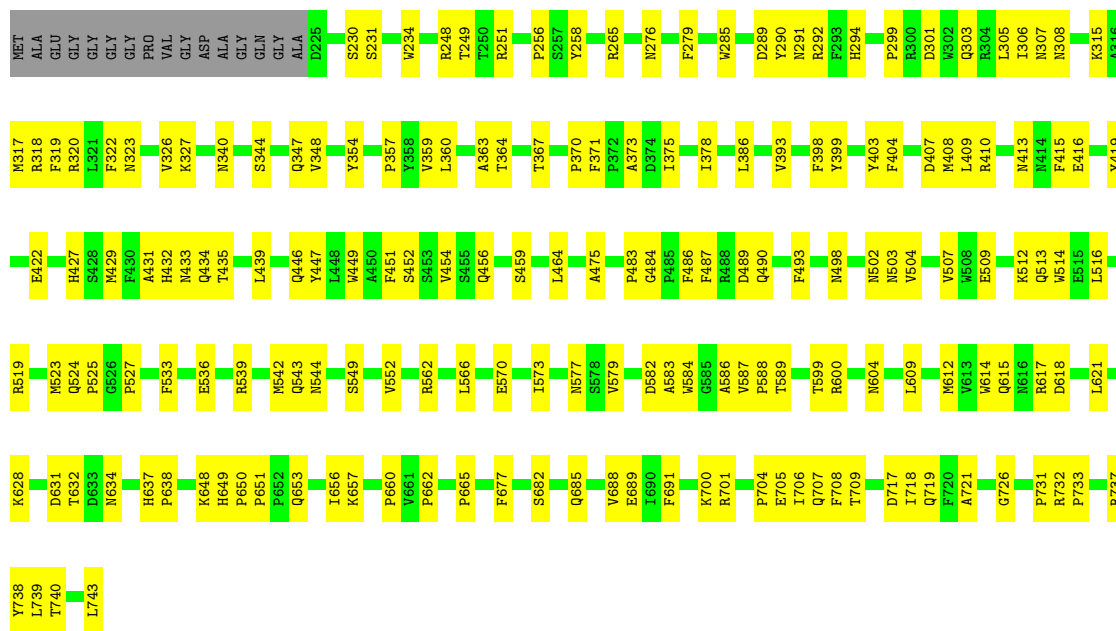
• Molecule 1: Capsid protein

Chain l:  64% 33%



• Molecule 1: Capsid protein

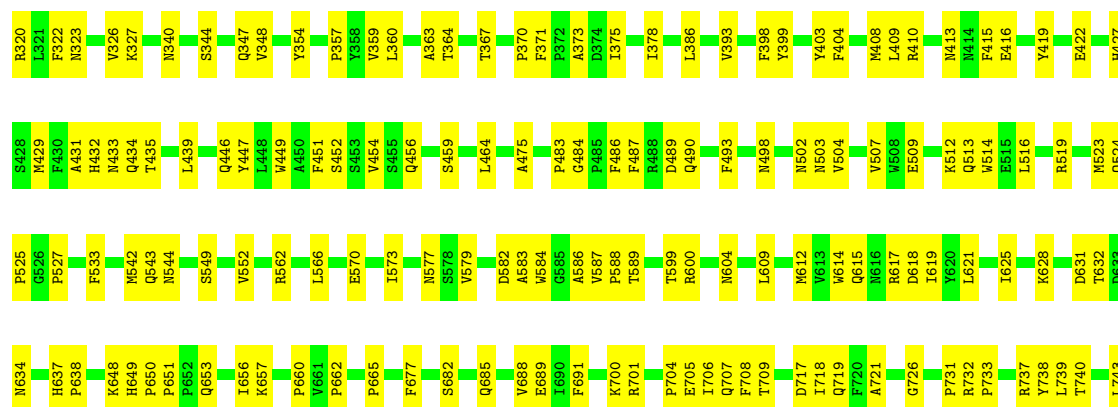
Chain m: 64% 33%



• Molecule 1: Capsid protein

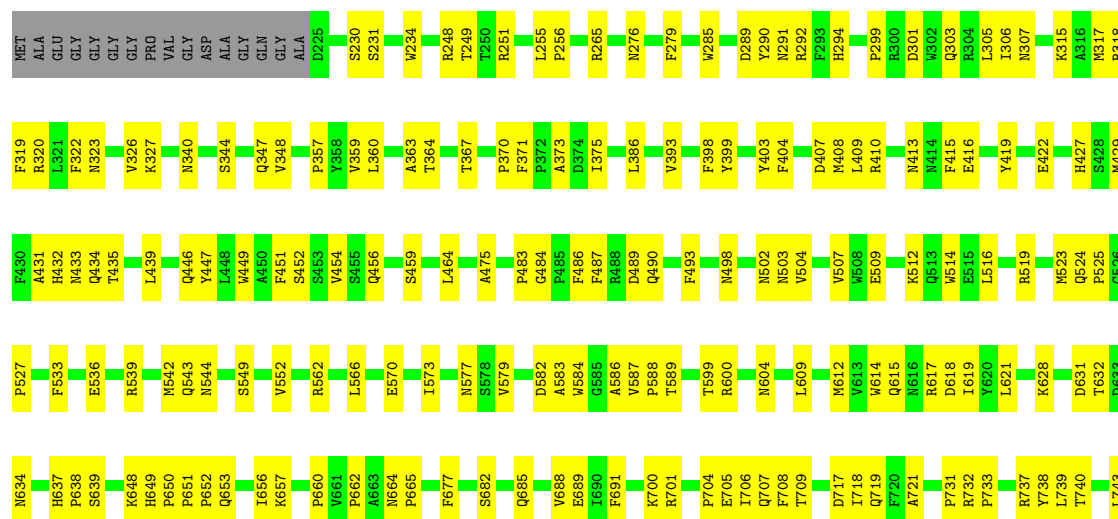
Chain n: 64% 33%





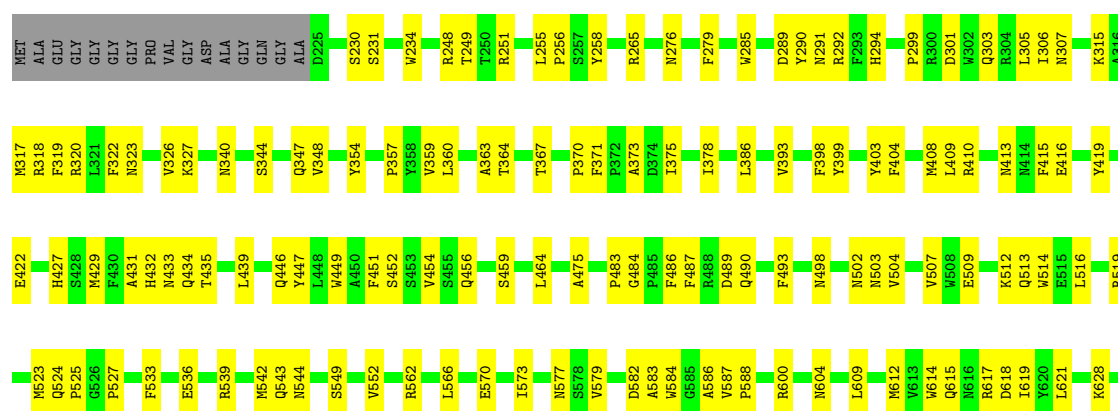
• Molecule 1: Capsid protein

Chain o: 64% 33% .



• Molecule 1: Capsid protein

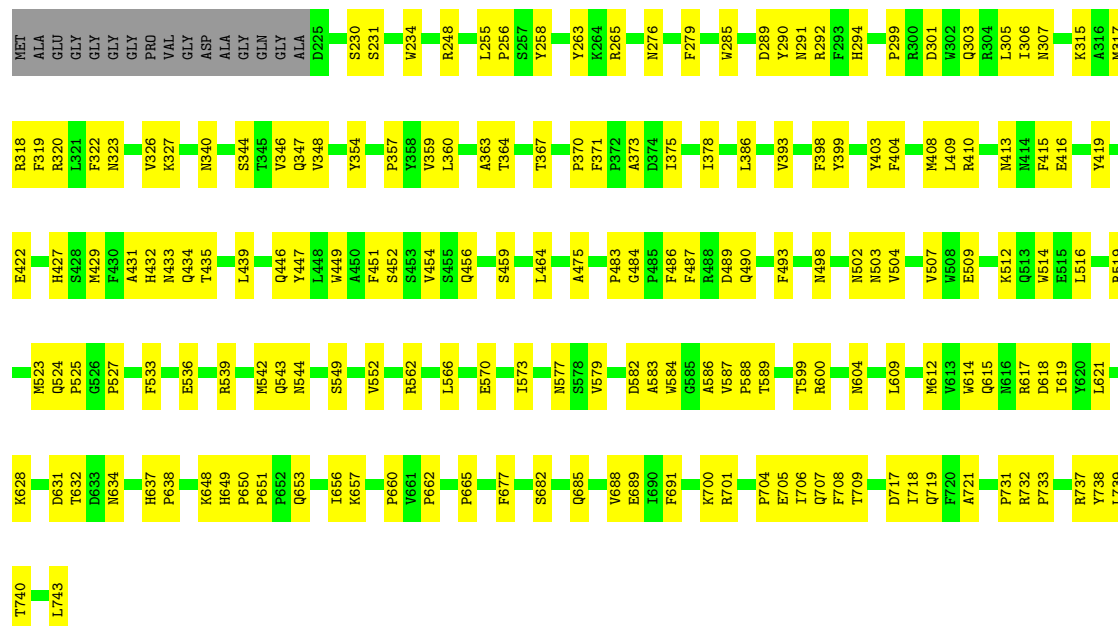
Chain p: 64% 33% .





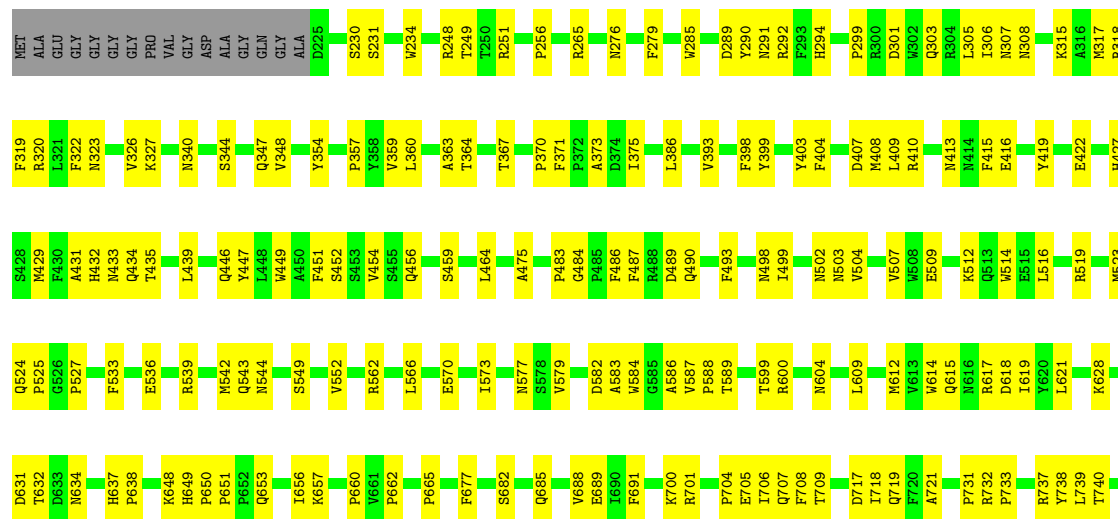
• Molecule 1: Capsid protein

Chain q: 64% 33% .



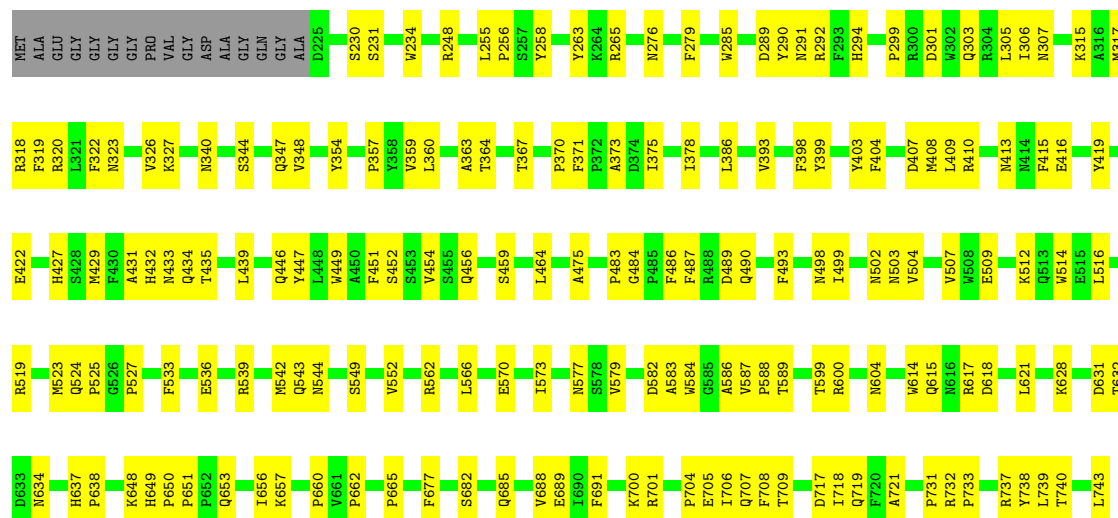
• Molecule 1: Capsid protein

Chain r: 64% 33% .

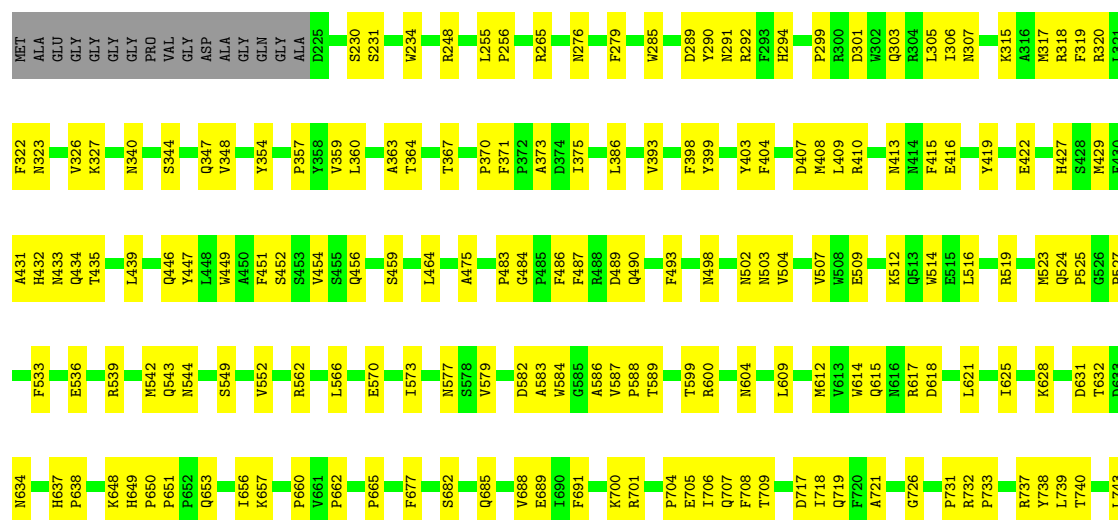


L743

- Molecule 1: Capsid protein

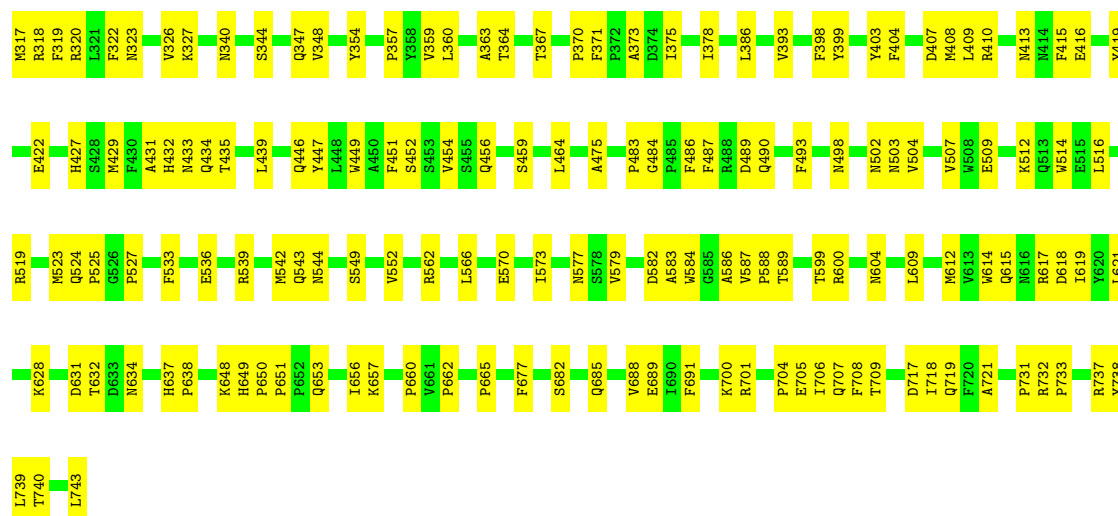
Chain s:  64% 33%

- Molecule 1: Capsid protein

Chain t:  64% 33%

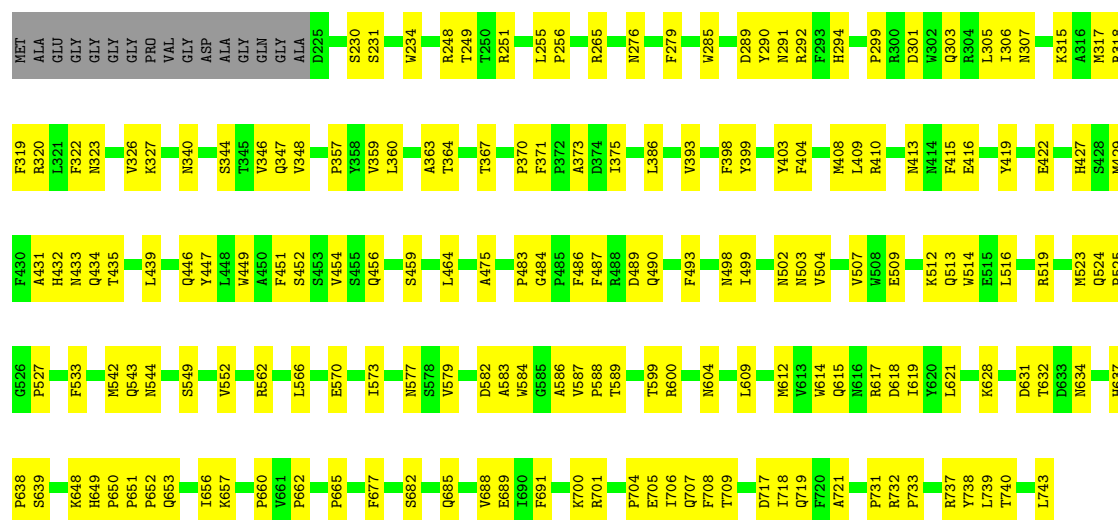
- Molecule 1: Capsid protein

Chain u:  64% 33%



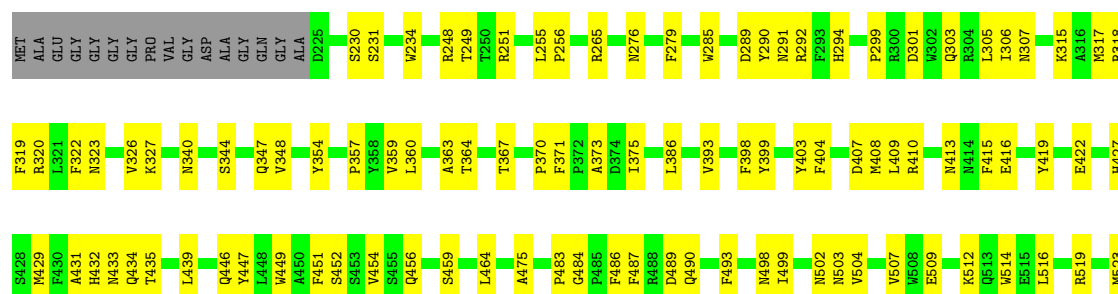
• Molecule 1: Capsid protein

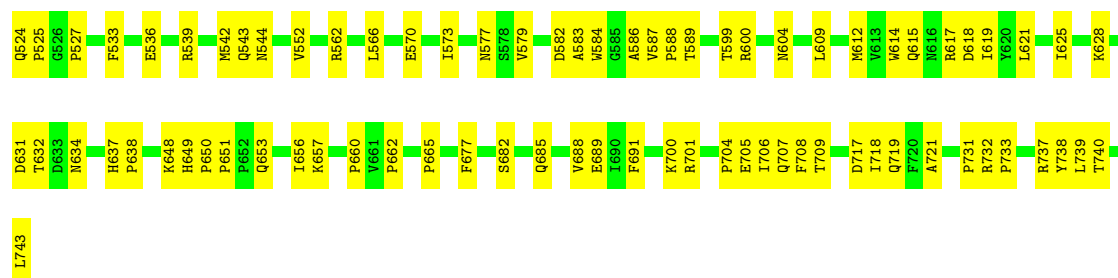
Chain v: 64% 33%



• Molecule 1: Capsid protein

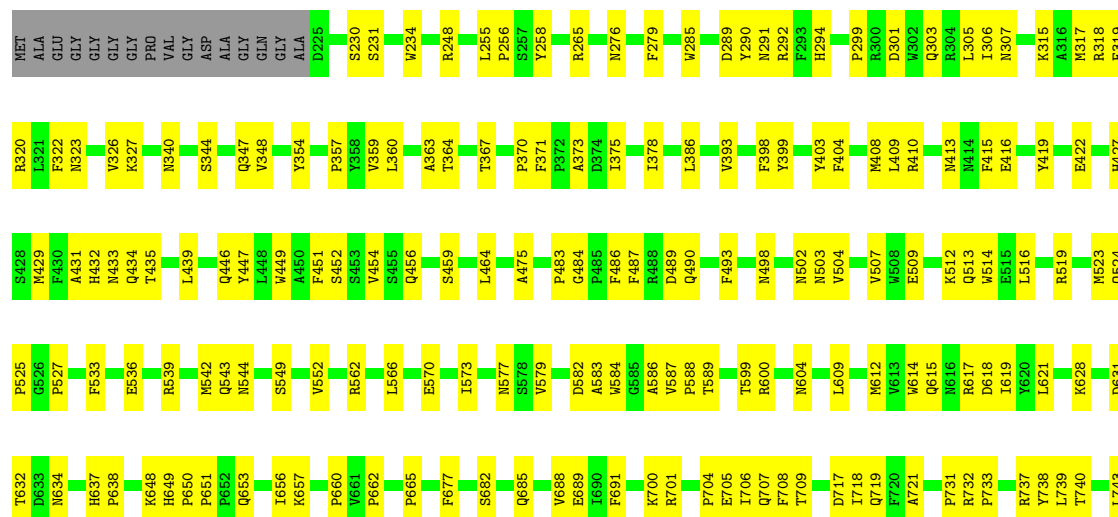
Chain w: 64% 33%





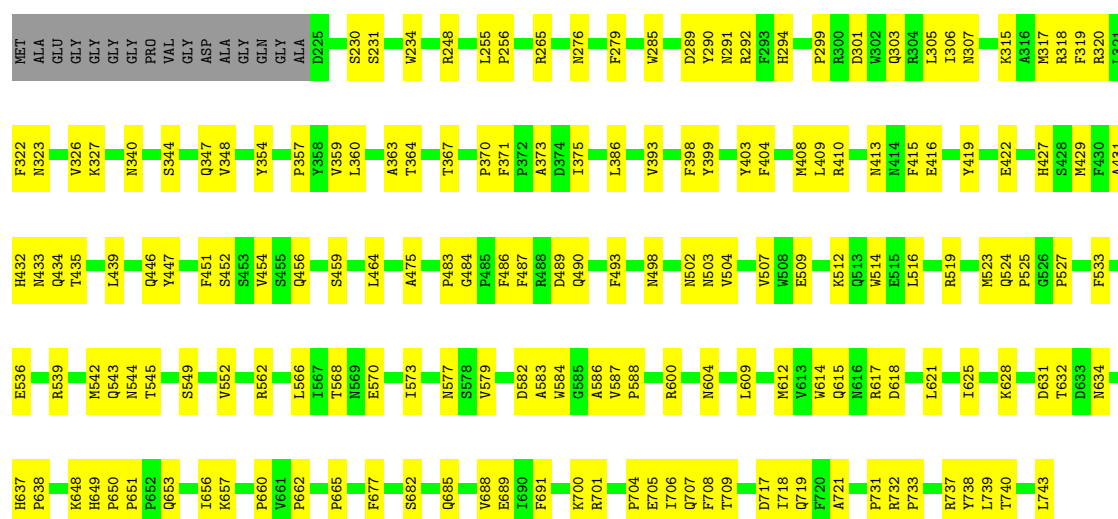
• Molecule 1: Capsid protein

Chain x: 64% 33%



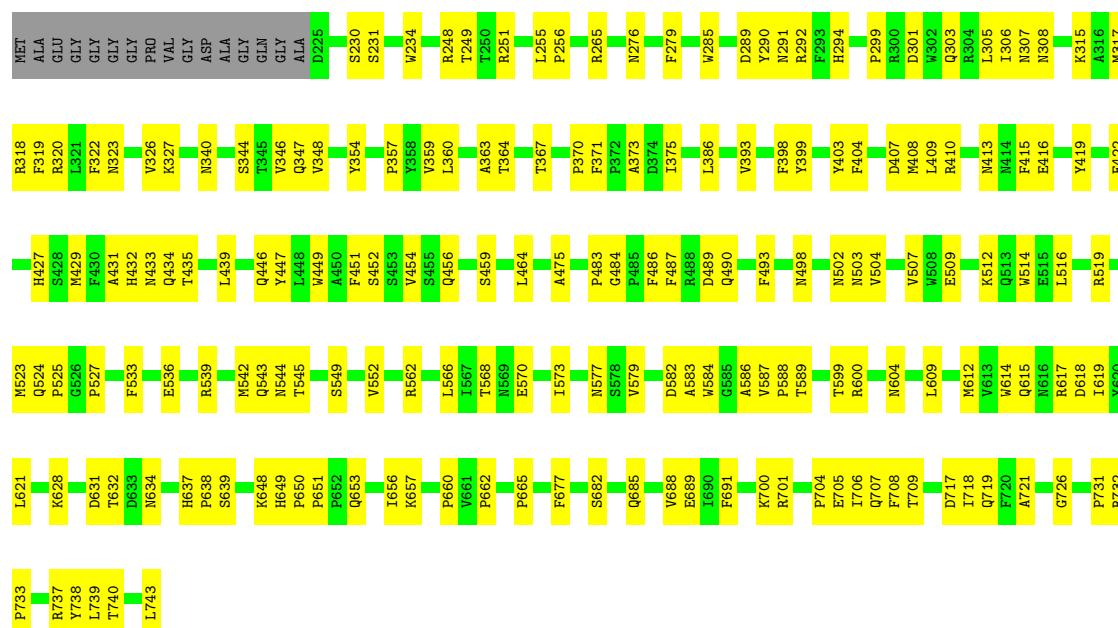
• Molecule 1: Capsid protein

Chain y: 65% 32%



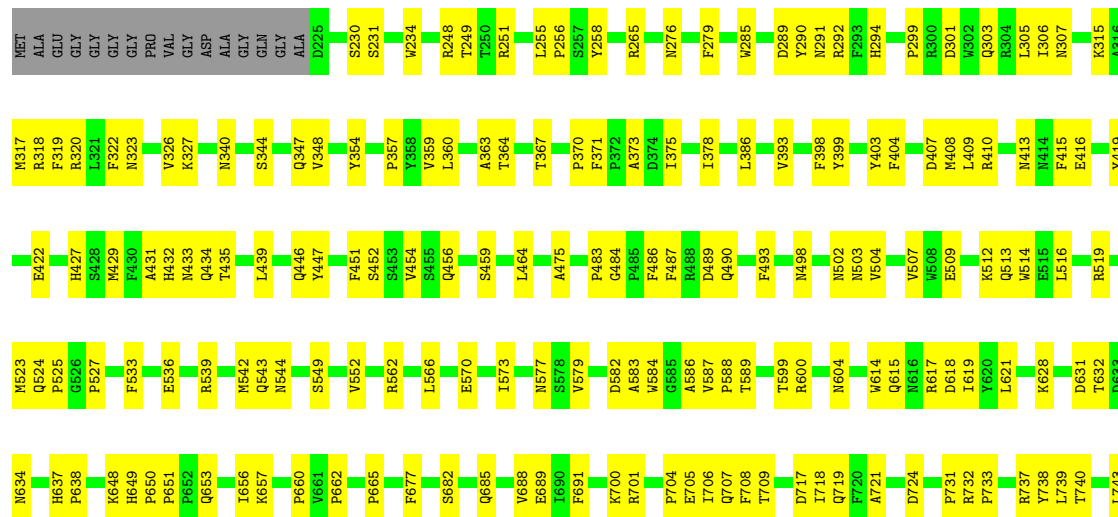
• Molecule 1: Capsid protein

Chain z:  63% 34%



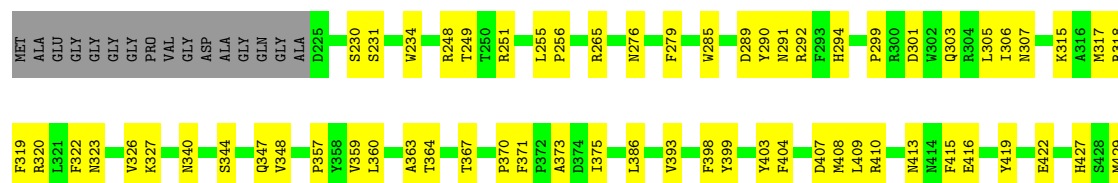
• Molecule 1: Capsid protein

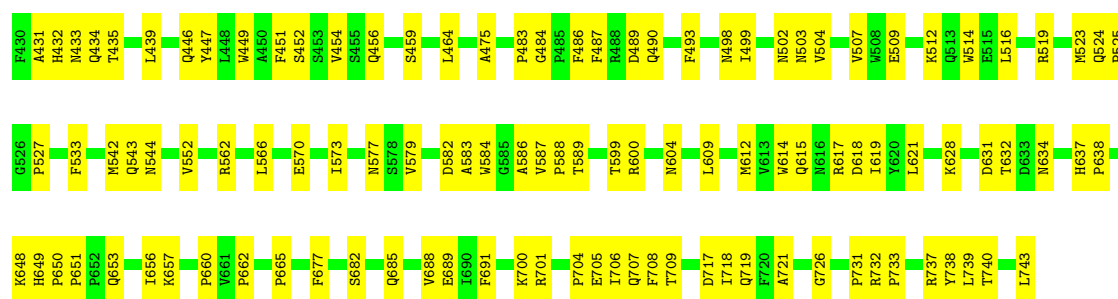
Chain 1:  64% 33%



• Molecule 1: Capsid protein

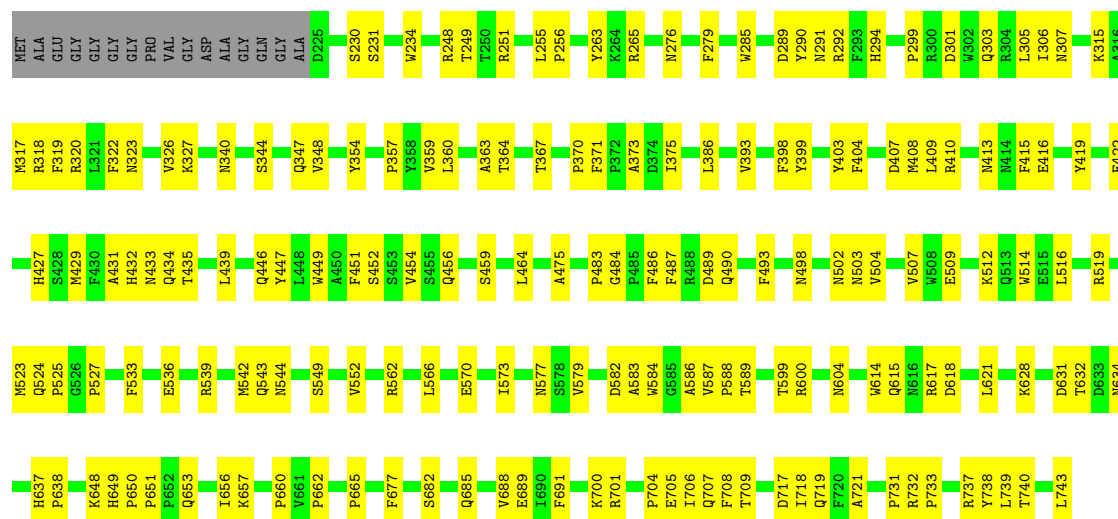
Chain 2:  65% 32%





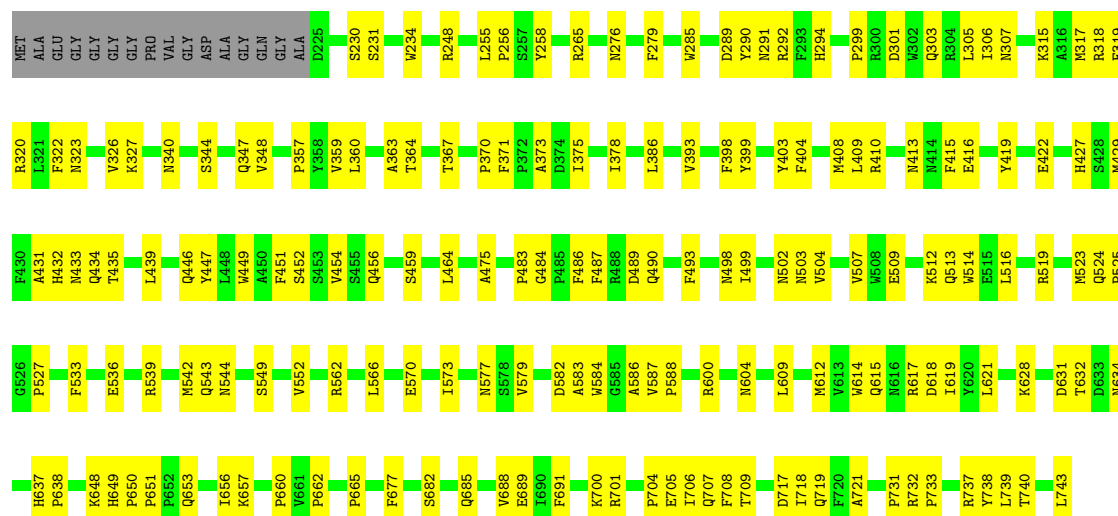
• Molecule 1: Capsid protein

Chain 3: 65% 32%



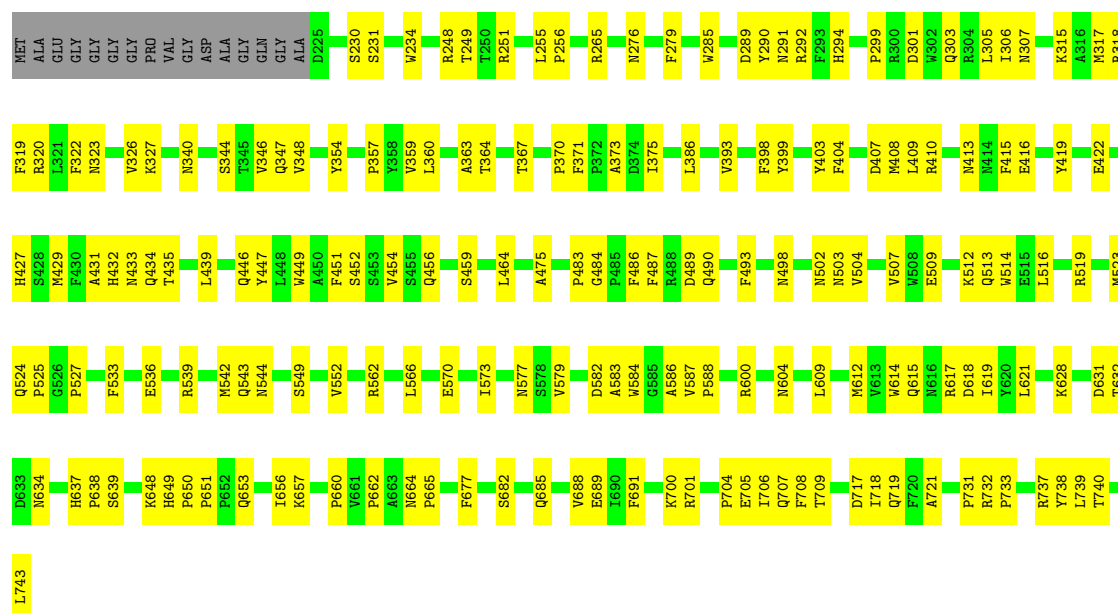
• Molecule 1: Capsid protein

Chain 4: 65% 32%



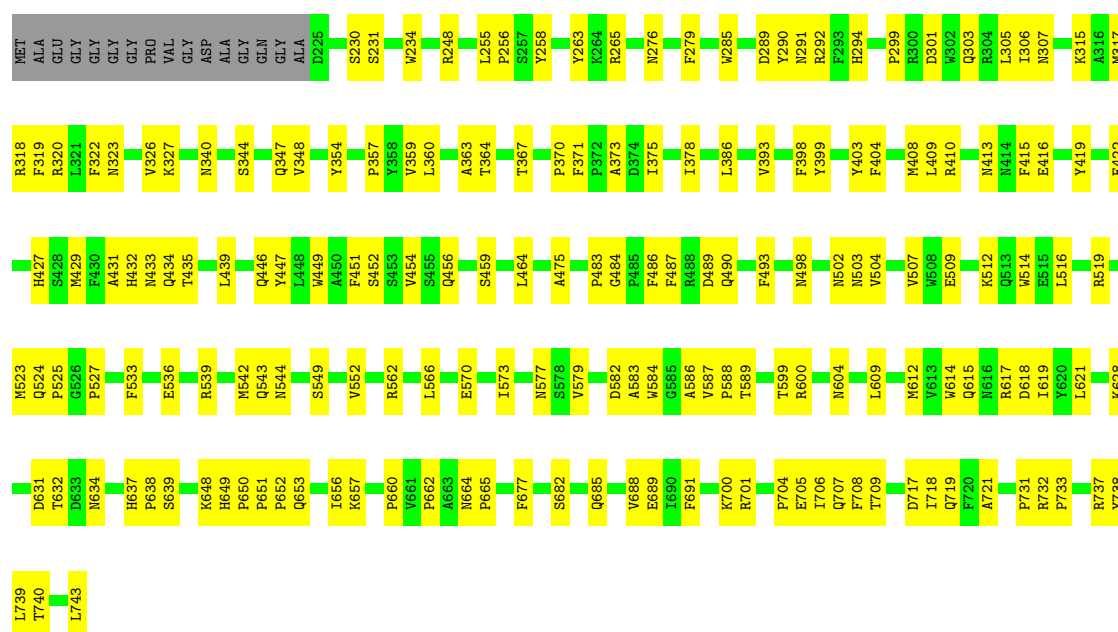
• Molecule 1: Capsid protein

Chain 5:  64% 33%



• Molecule 1: Capsid protein

Chain 6:  64% 33%



• Molecule 1: Capsid protein

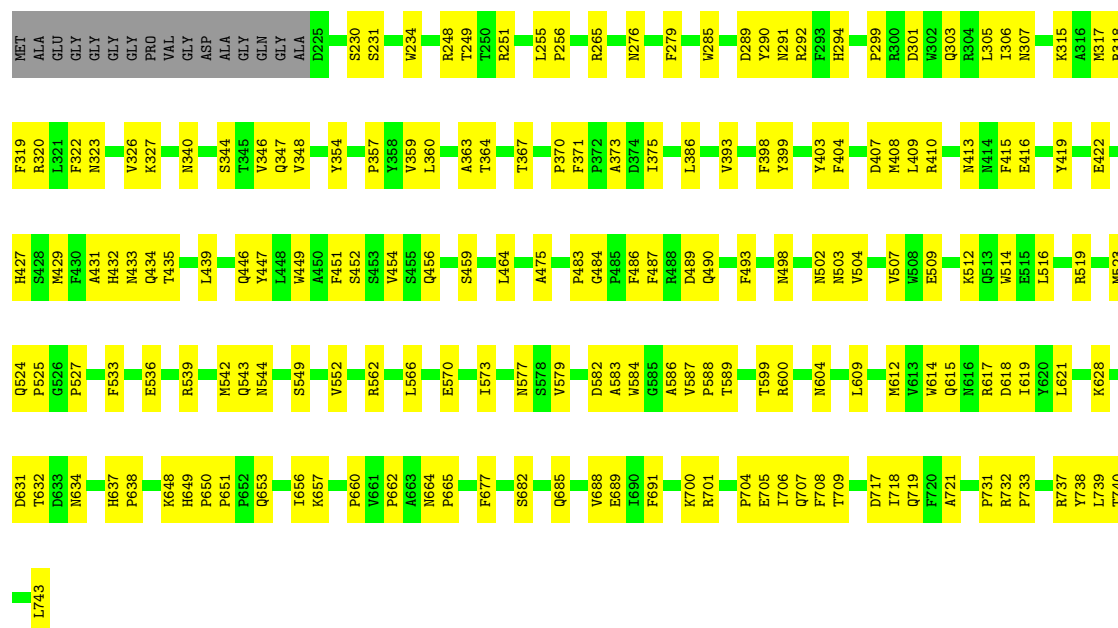
Chain 7:  65% 32%





• Molecule 1: Capsid protein

Chain 8: 64% 33%



4 Experimental information

Property	Value	Source
EM reconstruction method	SINGLE PARTICLE	Depositor
Imposed symmetry	POINT, Not provided	
Number of particles used	11240	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 ($e^-/\text{\AA}^2$)	61	Depositor
Minimum defocus (nm)	400	Depositor
Maximum defocus (nm)	3000	Depositor
Magnification	Not provided	
Image detector	GATAN K2 QUANTUM (4k x 4k)	Depositor
Maximum map value	16.894	Depositor
Minimum map value	-12.547	Depositor
Average map value	-0.000	Depositor
Map value standard deviation	1.000	Depositor
Recommended contour level	2	Depositor
Map size (Å)	443.09998, 443.09998, 443.09998	wwPDB
Map dimensions	420, 420, 420	wwPDB
Map angles (°)	90.0, 90.0, 90.0	wwPDB
Pixel spacing (Å)	1.055, 1.055, 1.055	Depositor

5 Model quality

5.1 Standard geometry

Bond lengths and bond angles in the following residue types are not validated in this section: D5M

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	0.42	0/4297	0.52	0/5867
1	2	0.42	0/4297	0.52	0/5867
1	3	0.42	0/4297	0.52	0/5867
1	4	0.42	0/4297	0.52	0/5867
1	5	0.42	0/4297	0.52	0/5867
1	6	0.42	0/4297	0.52	0/5867
1	7	0.42	0/4297	0.52	0/5867
1	8	0.42	0/4297	0.52	0/5867
1	A	0.42	0/4297	0.52	0/5867
1	B	0.42	0/4297	0.52	0/5867
1	C	0.42	0/4297	0.52	0/5867
1	D	0.42	0/4297	0.52	0/5867
1	E	0.42	0/4297	0.52	0/5867
1	F	0.42	0/4297	0.52	0/5867
1	G	0.42	0/4297	0.52	0/5867
1	H	0.42	0/4297	0.52	0/5867
1	I	0.42	0/4297	0.52	0/5867
1	J	0.42	0/4297	0.52	0/5867
1	K	0.42	0/4297	0.52	0/5867
1	L	0.42	0/4297	0.52	0/5867
1	M	0.42	0/4297	0.52	0/5867
1	N	0.42	0/4297	0.52	0/5867
1	O	0.42	0/4297	0.52	0/5867
1	P	0.42	0/4297	0.52	0/5867
1	Q	0.42	0/4297	0.52	0/5867
1	R	0.42	0/4297	0.52	0/5867
1	S	0.42	0/4297	0.52	0/5867
1	T	0.42	0/4297	0.52	0/5867
1	U	0.42	0/4297	0.52	0/5867
1	V	0.42	0/4297	0.52	0/5867
1	W	0.42	0/4297	0.52	0/5867
1	X	0.42	0/4297	0.52	0/5867

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	# Z >5	RMSZ	# Z >5
1	Y	0.42	0/4297	0.52	0/5867
1	Z	0.42	0/4297	0.52	0/5867
1	a	0.42	0/4297	0.52	0/5867
1	b	0.42	0/4297	0.52	0/5867
1	c	0.42	0/4297	0.52	0/5867
1	d	0.42	0/4297	0.52	0/5867
1	e	0.42	0/4297	0.52	0/5867
1	f	0.42	0/4297	0.52	0/5867
1	g	0.42	0/4297	0.52	0/5867
1	h	0.42	0/4297	0.52	0/5867
1	i	0.42	0/4297	0.52	0/5867
1	j	0.42	0/4297	0.52	0/5867
1	k	0.42	0/4297	0.52	0/5867
1	l	0.42	0/4297	0.52	0/5867
1	m	0.42	0/4297	0.52	0/5867
1	n	0.42	0/4297	0.52	0/5867
1	o	0.42	0/4297	0.52	0/5867
1	p	0.42	0/4297	0.52	0/5867
1	q	0.42	0/4297	0.52	0/5867
1	r	0.42	0/4297	0.52	0/5867
1	s	0.42	0/4297	0.52	0/5867
1	t	0.42	0/4297	0.52	0/5867
1	u	0.42	0/4297	0.52	0/5867
1	v	0.42	0/4297	0.52	0/5867
1	w	0.42	0/4297	0.52	0/5867
1	x	0.42	0/4297	0.52	0/5867
1	y	0.42	0/4297	0.52	0/5867
1	z	0.42	0/4297	0.52	0/5867
All	All	0.42	0/257820	0.52	0/352020

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 ⓘ

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	4167	0	3925	162	0
1	2	4167	0	3925	159	0
1	3	4167	0	3925	160	0
1	4	4167	0	3925	161	0
1	5	4167	0	3925	160	0
1	6	4167	0	3925	161	0
1	7	4167	0	3925	157	0
1	8	4167	0	3925	167	0
1	A	4167	0	3925	163	0
1	B	4167	0	3925	160	0
1	C	4167	0	3925	160	0
1	D	4167	0	3925	165	0
1	E	4167	0	3925	163	0
1	F	4167	0	3925	162	0
1	G	4167	0	3925	164	0
1	H	4167	0	3925	159	0
1	I	4167	0	3925	164	0
1	J	4167	0	3925	161	0
1	K	4167	0	3925	160	0
1	L	4167	0	3925	162	0
1	M	4167	0	3925	160	0
1	N	4167	0	3925	167	0
1	O	4167	0	3925	167	0
1	P	4167	0	3925	163	0
1	Q	4167	0	3925	160	0
1	R	4167	0	3925	163	0
1	S	4167	0	3925	162	0
1	T	4167	0	3925	160	0
1	U	4167	0	3925	159	0
1	V	4167	0	3925	162	0
1	W	4167	0	3925	163	0
1	X	4167	0	3925	163	0
1	Y	4167	0	3925	159	0
1	Z	4167	0	3925	164	0
1	a	4167	0	3925	161	0
1	b	4167	0	3925	165	0
1	c	4167	0	3925	162	0
1	d	4167	0	3925	158	0
1	e	4167	0	3925	162	0
1	f	4167	0	3925	163	0
1	g	4167	0	3925	161	0
1	h	4167	0	3925	160	0
1	i	4167	0	3925	168	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	j	4167	0	3925	163	0
1	k	4167	0	3925	164	0
1	l	4167	0	3925	168	0
1	m	4167	0	3925	163	0
1	n	4167	0	3925	162	0
1	o	4167	0	3925	165	0
1	p	4167	0	3925	165	0
1	q	4167	0	3925	163	0
1	r	4167	0	3925	163	0
1	s	4167	0	3925	161	0
1	t	4167	0	3925	163	0
1	u	4167	0	3925	165	0
1	v	4167	0	3925	164	0
1	w	4167	0	3925	160	0
1	x	4167	0	3925	159	0
1	y	4167	0	3925	158	0
1	z	4167	0	3925	164	0
2	1	21	0	12	3	0
2	2	21	0	12	3	0
2	3	21	0	12	3	0
2	4	21	0	12	3	0
2	5	21	0	12	3	0
2	6	21	0	12	3	0
2	7	21	0	12	3	0
2	8	21	0	12	3	0
2	A	21	0	12	3	0
2	B	21	0	12	3	0
2	C	21	0	12	3	0
2	D	21	0	12	3	0
2	E	21	0	12	3	0
2	F	21	0	12	3	0
2	G	21	0	12	3	0
2	H	21	0	12	3	0
2	I	21	0	12	3	0
2	J	21	0	12	3	0
2	K	21	0	12	3	0
2	L	21	0	12	3	0
2	M	21	0	12	3	0
2	N	21	0	12	3	0
2	O	21	0	12	4	0
2	P	21	0	12	3	0
2	Q	21	0	12	3	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
2	R	21	0	12	3	0
2	S	21	0	12	3	0
2	T	21	0	12	3	0
2	U	21	0	12	3	0
2	V	21	0	12	3	0
2	W	21	0	12	3	0
2	X	21	0	12	3	0
2	Y	21	0	12	3	0
2	Z	21	0	12	3	0
2	a	21	0	12	3	0
2	b	21	0	12	4	0
2	c	21	0	12	3	0
2	d	21	0	12	3	0
2	e	21	0	12	3	0
2	f	21	0	12	4	0
2	g	21	0	12	4	0
2	h	21	0	12	3	0
2	i	21	0	12	3	0
2	j	21	0	12	3	0
2	k	21	0	12	3	0
2	l	21	0	12	4	0
2	m	21	0	12	3	0
2	n	21	0	12	3	0
2	o	21	0	12	3	0
2	p	21	0	12	3	0
2	q	21	0	12	3	0
2	r	21	0	12	3	0
2	s	21	0	12	3	0
2	t	21	0	12	3	0
2	u	21	0	12	3	0
2	v	21	0	12	3	0
2	w	21	0	12	3	0
2	x	21	0	12	3	0
2	y	21	0	12	3	0
2	z	21	0	12	3	0
All	All	251280	0	236220	7633	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 16.

All (7633) close contacts within the same asymmetric unit are listed below, sorted by their clash magnitude.

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:u:493:PHE:H	1:u:502:ASN:HD21	1.20	0.90
1:I:493:PHE:H	1:I:502:ASN:HD21	1.20	0.90
1:K:493:PHE:H	1:K:502:ASN:HD21	1.20	0.90
1:4:493:PHE:H	1:4:502:ASN:HD21	1.20	0.90
1:e:493:PHE:H	1:e:502:ASN:HD21	1.20	0.89
1:c:493:PHE:H	1:c:502:ASN:HD21	1.20	0.89
1:7:493:PHE:H	1:7:502:ASN:HD21	1.20	0.89
1:i:493:PHE:H	1:i:502:ASN:HD21	1.20	0.89
1:o:493:PHE:H	1:o:502:ASN:HD21	1.20	0.89
1:A:493:PHE:H	1:A:502:ASN:HD21	1.20	0.89
1:T:493:PHE:H	1:T:502:ASN:HD21	1.20	0.89
1:X:493:PHE:H	1:X:502:ASN:HD21	1.20	0.89
1:N:493:PHE:H	1:N:502:ASN:HD21	1.20	0.89
1:F:493:PHE:H	1:F:502:ASN:HD21	1.20	0.89
1:Y:493:PHE:H	1:Y:502:ASN:HD21	1.20	0.89
1:v:493:PHE:H	1:v:502:ASN:HD21	1.20	0.89
1:y:493:PHE:H	1:y:502:ASN:HD21	1.20	0.89
1:l:493:PHE:H	1:l:502:ASN:HD21	1.20	0.89
1:m:493:PHE:H	1:m:502:ASN:HD21	1.20	0.89
1:O:493:PHE:H	1:O:502:ASN:HD21	1.20	0.88
1:R:493:PHE:H	1:R:502:ASN:HD21	1.20	0.88
1:q:493:PHE:H	1:q:502:ASN:HD21	1.20	0.88
1:a:493:PHE:H	1:a:502:ASN:HD21	1.20	0.88
1:d:493:PHE:H	1:d:502:ASN:HD21	1.20	0.88
1:H:493:PHE:H	1:H:502:ASN:HD21	1.20	0.88
1:3:493:PHE:H	1:3:502:ASN:HD21	1.20	0.88
1:n:493:PHE:H	1:n:502:ASN:HD21	1.20	0.88
1:5:493:PHE:H	1:5:502:ASN:HD21	1.20	0.88
1:L:493:PHE:H	1:L:502:ASN:HD21	1.20	0.88
1:z:493:PHE:H	1:z:502:ASN:HD21	1.20	0.88
1:x:493:PHE:H	1:x:502:ASN:HD21	1.20	0.87
1:Z:493:PHE:H	1:Z:502:ASN:HD21	1.20	0.87
1:8:493:PHE:H	1:8:502:ASN:HD21	1.20	0.87
1:Q:493:PHE:H	1:Q:502:ASN:HD21	1.20	0.87
1:1:493:PHE:H	1:1:502:ASN:HD21	1.20	0.87
1:B:493:PHE:H	1:B:502:ASN:HD21	1.20	0.87
1:G:493:PHE:H	1:G:502:ASN:HD21	1.20	0.86
1:U:493:PHE:H	1:U:502:ASN:HD21	1.20	0.86
1:E:493:PHE:H	1:E:502:ASN:HD21	1.20	0.86
1:s:493:PHE:H	1:s:502:ASN:HD21	1.20	0.86
1:t:493:PHE:H	1:t:502:ASN:HD21	1.20	0.86
1:M:493:PHE:H	1:M:502:ASN:HD21	1.20	0.86

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:g:493:PHE:H	1:g:502:ASN:HD21	1.20	0.86
1:f:493:PHE:H	1:f:502:ASN:HD21	1.20	0.86
1:h:493:PHE:H	1:h:502:ASN:HD21	1.20	0.86
1:p:493:PHE:H	1:p:502:ASN:HD21	1.20	0.86
1:C:493:PHE:H	1:C:502:ASN:HD21	1.20	0.85
1:b:493:PHE:H	1:b:502:ASN:HD21	1.20	0.85
1:w:493:PHE:H	1:w:502:ASN:HD21	1.20	0.85
1:W:493:PHE:H	1:W:502:ASN:HD21	1.20	0.85
1:P:493:PHE:H	1:P:502:ASN:HD21	1.20	0.85
1:V:493:PHE:H	1:V:502:ASN:HD21	1.20	0.85
1:j:493:PHE:H	1:j:502:ASN:HD21	1.20	0.85
1:6:493:PHE:H	1:6:502:ASN:HD21	1.20	0.85
1:D:493:PHE:H	1:D:502:ASN:HD21	1.20	0.84
1:k:493:PHE:H	1:k:502:ASN:HD21	1.20	0.84
1:r:493:PHE:H	1:r:502:ASN:HD21	1.20	0.84
1:S:493:PHE:H	1:S:502:ASN:HD21	1.20	0.84
1:2:493:PHE:H	1:2:502:ASN:HD21	1.20	0.83
1:J:493:PHE:H	1:J:502:ASN:HD21	1.20	0.83
1:z:509:GLU:O	1:2:600:ARG:NH2	2.12	0.83
1:K:600:ARG:NH2	1:a:509:GLU:O	2.12	0.82
1:3:509:GLU:O	1:4:600:ARG:NH2	2.12	0.82
1:D:600:ARG:NH2	1:N:509:GLU:O	2.13	0.82
1:W:600:ARG:NH2	1:Y:509:GLU:O	2.13	0.82
1:i:509:GLU:O	1:k:600:ARG:NH2	2.12	0.82
1:6:600:ARG:NH2	1:7:509:GLU:O	2.13	0.82
1:J:600:ARG:NH2	1:L:509:GLU:O	2.12	0.82
1:t:509:GLU:O	1:v:600:ARG:NH2	2.12	0.82
1:D:509:GLU:O	1:P:600:ARG:NH2	2.13	0.82
1:S:600:ARG:NH2	1:U:509:GLU:O	2.12	0.82
1:r:600:ARG:NH2	1:s:509:GLU:O	2.12	0.82
1:x:600:ARG:NH2	1:y:509:GLU:O	2.12	0.82
1:A:600:ARG:NH2	1:G:509:GLU:O	2.13	0.82
1:F:509:GLU:O	1:Q:600:ARG:NH2	2.13	0.82
1:T:509:GLU:O	1:l:600:ARG:NH2	2.13	0.82
1:T:600:ARG:NH2	1:d:509:GLU:O	2.12	0.82
1:j:600:ARG:NH2	1:k:509:GLU:O	2.13	0.82
1:z:600:ARG:NH2	1:1:509:GLU:O	2.12	0.82
1:N:600:ARG:NH2	1:P:509:GLU:O	2.12	0.82
1:i:600:ARG:NH2	1:j:509:GLU:O	2.12	0.82
1:B:509:GLU:O	1:L:600:ARG:NH2	2.13	0.82
1:O:509:GLU:O	1:n:600:ARG:NH2	2.12	0.82

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:w:600:ARG:NH2	1:x:509:GLU:O	2.12	0.82
1:Z:509:GLU:O	1:3:600:ARG:NH2	2.12	0.82
1:g:509:GLU:O	1:h:600:ARG:NH2	2.12	0.82
1:E:600:ARG:NH2	1:Q:509:GLU:O	2.12	0.82
1:q:600:ARG:NH2	1:r:509:GLU:O	2.12	0.82
1:C:509:GLU:O	1:M:600:ARG:NH2	2.12	0.82
1:R:600:ARG:NH2	1:S:509:GLU:O	2.12	0.82
1:a:600:ARG:NH2	1:8:509:GLU:O	2.12	0.82
1:5:509:GLU:O	1:7:600:ARG:NH2	2.12	0.82
1:C:600:ARG:NH2	1:b:509:GLU:O	2.13	0.81
1:m:600:ARG:NH2	1:n:509:GLU:O	2.13	0.81
1:B:600:ARG:NH2	1:J:509:GLU:O	2.12	0.81
1:Z:600:ARG:NH2	1:4:509:GLU:O	2.13	0.81
1:d:600:ARG:NH2	1:l:509:GLU:O	2.12	0.81
1:f:509:GLU:O	1:g:600:ARG:NH2	2.13	0.81
1:G:600:ARG:NH2	1:I:509:GLU:O	2.12	0.81
1:H:509:GLU:O	1:Y:600:ARG:NH2	2.12	0.81
1:K:509:GLU:O	1:8:600:ARG:NH2	2.12	0.81
1:t:600:ARG:NH2	1:u:509:GLU:O	2.12	0.81
1:u:600:ARG:NH2	1:v:509:GLU:O	2.12	0.81
1:1:600:ARG:NH2	1:2:509:GLU:O	2.12	0.81
1:O:600:ARG:NH2	1:m:509:GLU:O	2.14	0.81
1:5:600:ARG:NH2	1:6:509:GLU:O	2.13	0.81
1:H:600:ARG:NH2	1:W:509:GLU:O	2.13	0.81
1:V:600:ARG:NH2	1:e:509:GLU:O	2.13	0.81
1:c:509:GLU:O	1:p:600:ARG:NH2	2.13	0.81
1:c:600:ARG:NH2	1:o:509:GLU:O	2.12	0.81
1:o:600:ARG:NH2	1:p:509:GLU:O	2.12	0.81
1:q:509:GLU:O	1:s:600:ARG:NH2	2.13	0.81
1:w:509:GLU:O	1:y:600:ARG:NH2	2.12	0.81
1:E:509:GLU:O	1:F:600:ARG:NH2	2.13	0.81
1:R:509:GLU:O	1:U:600:ARG:NH2	2.13	0.81
1:A:509:GLU:O	1:I:600:ARG:NH2	2.13	0.81
1:V:509:GLU:O	1:X:600:ARG:NH2	2.12	0.81
1:X:509:GLU:O	1:e:600:ARG:NH2	2.12	0.81
1:M:509:GLU:O	1:b:600:ARG:NH2	2.13	0.80
1:f:600:ARG:NH2	1:h:509:GLU:O	2.12	0.80
1:5:326:VAL:HG21	1:5:344:SER:HB3	1.66	0.78
1:H:326:VAL:HG21	1:H:344:SER:HB3	1.66	0.78
1:O:326:VAL:HG21	1:O:344:SER:HB3	1.66	0.78
1:l:326:VAL:HG21	1:l:344:SER:HB3	1.66	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:o:326:VAL:HG21	1:o:344:SER:HB3	1.66	0.78
1:2:326:VAL:HG21	1:2:344:SER:HB3	1.66	0.78
1:7:326:VAL:HG21	1:7:344:SER:HB3	1.66	0.78
1:K:326:VAL:HG21	1:K:344:SER:HB3	1.66	0.77
1:X:326:VAL:HG21	1:X:344:SER:HB3	1.66	0.77
1:Y:326:VAL:HG21	1:Y:344:SER:HB3	1.66	0.77
1:b:326:VAL:HG21	1:b:344:SER:HB3	1.66	0.77
1:c:326:VAL:HG21	1:c:344:SER:HB3	1.66	0.77
1:4:326:VAL:HG21	1:4:344:SER:HB3	1.66	0.77
1:L:326:VAL:HG21	1:L:344:SER:HB3	1.66	0.77
1:P:326:VAL:HG21	1:P:344:SER:HB3	1.66	0.77
1:e:326:VAL:HG21	1:e:344:SER:HB3	1.66	0.77
1:J:326:VAL:HG21	1:J:344:SER:HB3	1.66	0.77
1:f:326:VAL:HG21	1:f:344:SER:HB3	1.66	0.77
1:z:326:VAL:HG21	1:z:344:SER:HB3	1.66	0.77
1:j:326:VAL:HG21	1:j:344:SER:HB3	1.66	0.77
1:t:326:VAL:HG21	1:t:344:SER:HB3	1.66	0.77
1:G:326:VAL:HG21	1:G:344:SER:HB3	1.66	0.77
1:d:326:VAL:HG21	1:d:344:SER:HB3	1.66	0.77
1:6:326:VAL:HG21	1:6:344:SER:HB3	1.66	0.77
1:I:326:VAL:HG21	1:I:344:SER:HB3	1.66	0.77
1:W:326:VAL:HG21	1:W:344:SER:HB3	1.66	0.77
1:i:326:VAL:HG21	1:i:344:SER:HB3	1.66	0.77
1:n:326:VAL:HG21	1:n:344:SER:HB3	1.66	0.77
1:E:326:VAL:HG21	1:E:344:SER:HB3	1.66	0.77
1:r:326:VAL:HG21	1:r:344:SER:HB3	1.66	0.77
1:w:326:VAL:HG21	1:w:344:SER:HB3	1.66	0.77
1:N:326:VAL:HG21	1:N:344:SER:HB3	1.66	0.77
1:S:326:VAL:HG21	1:S:344:SER:HB3	1.66	0.77
1:A:326:VAL:HG21	1:A:344:SER:HB3	1.66	0.77
1:m:230:SER:H	1:s:413:ASN:HD21	1.33	0.77
1:u:326:VAL:HG21	1:u:344:SER:HB3	1.66	0.77
1:v:326:VAL:HG21	1:v:344:SER:HB3	1.66	0.77
1:8:326:VAL:HG21	1:8:344:SER:HB3	1.66	0.77
1:M:326:VAL:HG21	1:M:344:SER:HB3	1.66	0.77
1:Z:326:VAL:HG21	1:Z:344:SER:HB3	1.66	0.77
1:h:326:VAL:HG21	1:h:344:SER:HB3	1.66	0.77
1:D:326:VAL:HG21	1:D:344:SER:HB3	1.66	0.76
1:k:326:VAL:HG21	1:k:344:SER:HB3	1.66	0.76
1:Q:326:VAL:HG21	1:Q:344:SER:HB3	1.66	0.76
1:1:326:VAL:HG21	1:1:344:SER:HB3	1.66	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:q:326:VAL:HG21	1:q:344:SER:HB3	1.66	0.76
1:x:326:VAL:HG21	1:x:344:SER:HB3	1.66	0.76
1:B:326:VAL:HG21	1:B:344:SER:HB3	1.66	0.76
1:a:326:VAL:HG21	1:a:344:SER:HB3	1.66	0.76
1:3:326:VAL:HG21	1:3:344:SER:HB3	1.66	0.76
1:R:326:VAL:HG21	1:R:344:SER:HB3	1.66	0.76
1:U:326:VAL:HG21	1:U:344:SER:HB3	1.66	0.76
1:p:326:VAL:HG21	1:p:344:SER:HB3	1.66	0.76
1:C:326:VAL:HG21	1:C:344:SER:HB3	1.66	0.75
1:V:326:VAL:HG21	1:V:344:SER:HB3	1.66	0.75
1:s:326:VAL:HG21	1:s:344:SER:HB3	1.66	0.75
1:g:326:VAL:HG21	1:g:344:SER:HB3	1.66	0.75
1:m:326:VAL:HG21	1:m:344:SER:HB3	1.66	0.75
1:A:230:SER:H	1:E:413:ASN:HD21	1.35	0.75
1:T:230:SER:H	1:U:413:ASN:HD21	1.35	0.75
1:y:326:VAL:HG21	1:y:344:SER:HB3	1.66	0.75
1:J:230:SER:H	1:a:413:ASN:HD21	1.35	0.75
1:T:326:VAL:HG21	1:T:344:SER:HB3	1.66	0.75
1:z:359:VAL:H	1:z:653:GLN:HE22	1.35	0.75
1:D:359:VAL:H	1:D:653:GLN:HE22	1.35	0.75
1:F:326:VAL:HG21	1:F:344:SER:HB3	1.66	0.75
1:L:359:VAL:H	1:L:653:GLN:HE22	1.35	0.75
1:O:230:SER:H	1:P:413:ASN:HD21	1.35	0.75
1:P:577:ASN:HD21	1:P:614:TRP:HB2	1.52	0.75
1:k:359:VAL:H	1:k:653:GLN:HE22	1.35	0.75
1:v:230:SER:H	1:w:413:ASN:HD21	1.35	0.75
1:V:359:VAL:H	1:V:653:GLN:HE22	1.35	0.75
1:X:577:ASN:HD21	1:X:614:TRP:HB2	1.52	0.75
1:a:577:ASN:HD21	1:a:614:TRP:HB2	1.52	0.75
1:j:577:ASN:HD21	1:j:614:TRP:HB2	1.52	0.75
1:m:577:ASN:HD21	1:m:614:TRP:HB2	1.52	0.75
1:o:577:ASN:HD21	1:o:614:TRP:HB2	1.52	0.75
1:q:577:ASN:HD21	1:q:614:TRP:HB2	1.52	0.75
1:x:577:ASN:HD21	1:x:614:TRP:HB2	1.52	0.75
1:M:359:VAL:H	1:M:653:GLN:HE22	1.35	0.74
1:Q:577:ASN:HD21	1:Q:614:TRP:HB2	1.52	0.74
1:R:577:ASN:HD21	1:R:614:TRP:HB2	1.52	0.74
1:T:577:ASN:HD21	1:T:614:TRP:HB2	1.52	0.74
1:h:359:VAL:H	1:h:653:GLN:HE22	1.35	0.74
1:j:413:ASN:HD21	1:l:230:SER:H	1.35	0.74
1:p:359:VAL:H	1:p:653:GLN:HE22	1.35	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:w:577:ASN:HD21	1:w:614:TRP:HB2	1.52	0.74
1:3:577:ASN:HD21	1:3:614:TRP:HB2	1.52	0.74
1:A:359:VAL:H	1:A:653:GLN:HE22	1.35	0.74
1:C:577:ASN:HD21	1:C:614:TRP:HB2	1.52	0.74
1:E:577:ASN:HD21	1:E:614:TRP:HB2	1.52	0.74
1:S:577:ASN:HD21	1:S:614:TRP:HB2	1.52	0.74
1:n:577:ASN:HD21	1:n:614:TRP:HB2	1.52	0.74
1:v:359:VAL:H	1:v:653:GLN:HE22	1.35	0.74
1:A:577:ASN:HD21	1:A:614:TRP:HB2	1.52	0.74
1:N:577:ASN:HD21	1:N:614:TRP:HB2	1.52	0.74
1:g:230:SER:H	1:1:413:ASN:HD21	1.35	0.74
1:g:577:ASN:HD21	1:g:614:TRP:HB2	1.52	0.74
1:o:359:VAL:H	1:o:653:GLN:HE22	1.35	0.74
1:r:577:ASN:HD21	1:r:614:TRP:HB2	1.52	0.74
1:t:413:ASN:HD21	1:y:230:SER:H	1.36	0.74
1:E:359:VAL:H	1:E:653:GLN:HE22	1.35	0.74
1:F:230:SER:H	1:G:413:ASN:HD21	1.36	0.74
1:J:359:VAL:H	1:J:653:GLN:HE22	1.35	0.74
1:d:577:ASN:HD21	1:d:614:TRP:HB2	1.52	0.74
1:v:577:ASN:HD21	1:v:614:TRP:HB2	1.52	0.74
1:C:413:ASN:HD21	1:D:230:SER:H	1.36	0.74
1:U:230:SER:H	1:e:413:ASN:HD21	1.35	0.74
1:W:359:VAL:H	1:W:653:GLN:HE22	1.35	0.74
1:Y:230:SER:H	1:4:413:ASN:HD21	1.36	0.74
1:e:359:VAL:H	1:e:653:GLN:HE22	1.35	0.74
1:i:577:ASN:HD21	1:i:614:TRP:HB2	1.52	0.74
1:w:359:VAL:H	1:w:653:GLN:HE22	1.35	0.74
1:2:359:VAL:H	1:2:653:GLN:HE22	1.35	0.74
1:6:359:VAL:H	1:6:653:GLN:HE22	1.35	0.74
1:X:359:VAL:H	1:X:653:GLN:HE22	1.35	0.74
1:c:359:VAL:H	1:c:653:GLN:HE22	1.35	0.74
1:g:413:ASN:HD21	1:k:230:SER:H	1.36	0.74
1:t:577:ASN:HD21	1:t:614:TRP:HB2	1.52	0.74
1:K:413:ASN:HD21	1:7:230:SER:H	1.36	0.74
1:c:413:ASN:HD21	1:s:230:SER:H	1.35	0.74
1:2:230:SER:H	1:3:413:ASN:HD21	1.36	0.74
1:8:577:ASN:HD21	1:8:614:TRP:HB2	1.52	0.74
1:B:413:ASN:HD21	1:C:230:SER:H	1.35	0.74
1:F:359:VAL:H	1:F:653:GLN:HE22	1.35	0.74
1:G:577:ASN:HD21	1:G:614:TRP:HB2	1.52	0.74
1:y:359:VAL:H	1:y:653:GLN:HE22	1.35	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:l:577:ASN:HD21	1:l:614:TRP:HB2	1.52	0.74
1:p:577:ASN:HD21	1:p:614:TRP:HB2	1.52	0.74
1:Z:577:ASN:HD21	1:Z:614:TRP:HB2	1.52	0.74
1:u:577:ASN:HD21	1:u:614:TRP:HB2	1.52	0.74
1:V:577:ASN:HD21	1:V:614:TRP:HB2	1.52	0.73
1:o:230:SER:H	1:7:413:ASN:HD21	1.35	0.73
1:D:577:ASN:HD21	1:D:614:TRP:HB2	1.52	0.73
1:I:577:ASN:HD21	1:I:614:TRP:HB2	1.52	0.73
1:O:577:ASN:HD21	1:O:614:TRP:HB2	1.52	0.73
1:Q:359:VAL:H	1:Q:653:GLN:HE22	1.35	0.73
1:U:577:ASN:HD21	1:U:614:TRP:HB2	1.52	0.73
1:W:577:ASN:HD21	1:W:614:TRP:HB2	1.52	0.73
1:k:577:ASN:HD21	1:k:614:TRP:HB2	1.52	0.73
1:s:359:VAL:H	1:s:653:GLN:HE22	1.35	0.73
1:s:577:ASN:HD21	1:s:614:TRP:HB2	1.52	0.73
1:u:230:SER:H	1:2:413:ASN:HD21	1.35	0.73
1:5:359:VAL:H	1:5:653:GLN:HE22	1.35	0.73
1:6:577:ASN:HD21	1:6:614:TRP:HB2	1.52	0.73
1:H:359:VAL:H	1:H:653:GLN:HE22	1.35	0.73
1:H:413:ASN:HD21	1:Z:230:SER:H	1.35	0.73
1:N:359:VAL:H	1:N:653:GLN:HE22	1.35	0.73
1:X:230:SER:H	1:Y:413:ASN:HD21	1.35	0.73
1:Z:359:VAL:H	1:Z:653:GLN:HE22	1.35	0.73
1:x:359:VAL:H	1:x:653:GLN:HE22	1.35	0.73
1:B:359:VAL:H	1:B:653:GLN:HE22	1.35	0.73
1:D:413:ASN:HD21	1:E:230:SER:H	1.35	0.73
1:H:577:ASN:HD21	1:H:614:TRP:HB2	1.52	0.73
1:I:230:SER:H	1:J:413:ASN:HD21	1.35	0.73
1:J:577:ASN:HD21	1:J:614:TRP:HB2	1.52	0.73
1:L:230:SER:H	1:b:413:ASN:HD21	1.35	0.73
1:R:413:ASN:HD21	1:V:230:SER:H	1.35	0.73
1:U:359:VAL:H	1:U:653:GLN:HE22	1.35	0.73
1:p:230:SER:H	1:q:413:ASN:HD21	1.35	0.73
1:1:359:VAL:H	1:1:653:GLN:HE22	1.35	0.73
1:4:359:VAL:H	1:4:653:GLN:HE22	1.35	0.73
1:5:413:ASN:HD21	1:8:230:SER:H	1.35	0.73
1:B:577:ASN:HD21	1:B:614:TRP:HB2	1.52	0.73
1:K:359:VAL:H	1:K:653:GLN:HE22	1.35	0.73
1:f:413:ASN:HD21	1:z:230:SER:H	1.35	0.73
1:i:359:VAL:H	1:i:653:GLN:HE22	1.35	0.73
1:j:230:SER:H	1:x:413:ASN:HD21	1.35	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:k:413:ASN:HD21	1:w:230:SER:H	1.35	0.73
1:K:230:SER:H	1:L:413:ASN:HD21	1.35	0.73
1:M:413:ASN:HD21	1:c:230:SER:H	1.35	0.73
1:M:577:ASN:HD21	1:M:614:TRP:HB2	1.52	0.73
1:P:230:SER:H	1:Q:413:ASN:HD21	1.36	0.73
1:z:413:ASN:HD21	1:4:230:SER:H	1.35	0.73
1:2:577:ASN:HD21	1:2:614:TRP:HB2	1.52	0.73
1:5:577:ASN:HD21	1:5:614:TRP:HB2	1.52	0.73
1:C:359:VAL:H	1:C:653:GLN:HE22	1.35	0.73
1:T:413:ASN:HD21	1:i:230:SER:H	1.35	0.73
1:e:230:SER:H	1:h:413:ASN:HD21	1.35	0.73
1:h:577:ASN:HD21	1:h:614:TRP:HB2	1.52	0.73
1:r:413:ASN:HD21	1:x:230:SER:H	1.35	0.73
1:G:230:SER:H	1:W:413:ASN:HD21	1.35	0.73
1:Q:230:SER:H	1:S:413:ASN:HD21	1.35	0.73
1:4:577:ASN:HD21	1:4:614:TRP:HB2	1.52	0.73
1:8:359:VAL:H	1:8:653:GLN:HE22	1.35	0.73
1:F:413:ASN:HD21	1:R:230:SER:H	1.36	0.73
1:Y:577:ASN:HD21	1:Y:614:TRP:HB2	1.52	0.73
1:g:359:VAL:H	1:g:653:GLN:HE22	1.35	0.73
1:1:577:ASN:HD21	1:1:614:TRP:HB2	1.52	0.73
1:m:359:VAL:H	1:m:653:GLN:HE22	1.35	0.73
1:7:577:ASN:HD21	1:7:614:TRP:HB2	1.52	0.73
1:K:577:ASN:HD21	1:K:614:TRP:HB2	1.52	0.72
1:f:577:ASN:HD21	1:f:614:TRP:HB2	1.52	0.72
1:q:230:SER:H	1:y:413:ASN:HD21	1.35	0.72
1:q:359:VAL:H	1:q:653:GLN:HE22	1.35	0.72
1:t:230:SER:H	1:6:413:ASN:HD21	1.35	0.72
1:N:230:SER:H	1:m:413:ASN:HD21	1.36	0.72
1:R:359:VAL:H	1:R:653:GLN:HE22	1.35	0.72
1:T:359:VAL:H	1:T:653:GLN:HE22	1.35	0.72
1:V:413:ASN:HD21	1:W:230:SER:H	1.36	0.72
1:b:359:VAL:H	1:b:653:GLN:HE22	1.35	0.72
1:p:413:ASN:HD21	1:6:230:SER:H	1.36	0.72
1:t:359:VAL:H	1:t:653:GLN:HE22	1.35	0.72
1:A:413:ASN:HD21	1:B:230:SER:H	1.36	0.72
1:c:577:ASN:HD21	1:c:614:TRP:HB2	1.52	0.72
1:f:359:VAL:H	1:f:653:GLN:HE22	1.35	0.72
1:G:359:VAL:H	1:G:653:GLN:HE22	1.35	0.72
1:a:359:VAL:H	1:a:653:GLN:HE22	1.35	0.72
1:b:577:ASN:HD21	1:b:614:TRP:HB2	1.52	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:e:577:ASN:HD21	1:e:614:TRP:HB2	1.52	0.72
1:u:359:VAL:H	1:u:653:GLN:HE22	1.35	0.72
1:v:413:ASN:HD21	1:1:230:SER:H	1.36	0.72
1:S:230:SER:H	1:d:413:ASN:HD21	1.36	0.72
1:S:359:VAL:H	1:S:653:GLN:HE22	1.35	0.72
1:3:359:VAL:H	1:3:653:GLN:HE22	1.35	0.72
1:m:307:ASN:ND2	1:r:707:GLN:OE1	2.23	0.72
1:n:413:ASN:HD21	1:r:230:SER:H	1.35	0.72
1:7:359:VAL:H	1:7:653:GLN:HE22	1.35	0.72
1:I:359:VAL:H	1:I:653:GLN:HE22	1.35	0.72
1:Z:413:ASN:HD21	1:a:230:SER:H	1.35	0.72
1:y:577:ASN:HD21	1:y:614:TRP:HB2	1.52	0.72
1:r:359:VAL:H	1:r:653:GLN:HE22	1.35	0.72
1:F:484:GLY:HA3	1:F:614:TRP:HB3	1.72	0.72
1:Y:359:VAL:H	1:Y:653:GLN:HE22	1.35	0.72
1:j:359:VAL:H	1:j:653:GLN:HE22	1.35	0.72
1:7:484:GLY:HA3	1:7:614:TRP:HB3	1.72	0.72
1:H:230:SER:H	1:I:413:ASN:HD21	1.35	0.72
1:Y:484:GLY:HA3	1:Y:614:TRP:HB3	1.72	0.72
1:m:707:GLN:OE1	1:r:307:ASN:ND2	2.23	0.72
1:4:484:GLY:HA3	1:4:614:TRP:HB3	1.72	0.72
1:F:577:ASN:HD21	1:F:614:TRP:HB2	1.52	0.71
1:K:484:GLY:HA3	1:K:614:TRP:HB3	1.72	0.71
1:P:359:VAL:H	1:P:653:GLN:HE22	1.35	0.71
1:X:484:GLY:HA3	1:X:614:TRP:HB3	1.72	0.71
1:o:484:GLY:HA3	1:o:614:TRP:HB3	1.72	0.71
1:y:484:GLY:HA3	1:y:614:TRP:HB3	1.72	0.71
1:C:484:GLY:HA3	1:C:614:TRP:HB3	1.72	0.71
1:l:413:ASN:HD21	1:n:230:SER:H	1.35	0.71
1:t:484:GLY:HA3	1:t:614:TRP:HB3	1.72	0.71
1:u:413:ASN:HD21	1:5:230:SER:H	1.36	0.71
1:3:230:SER:H	1:8:413:ASN:HD21	1.35	0.71
1:B:484:GLY:HA3	1:B:614:TRP:HB3	1.72	0.71
1:G:484:GLY:HA3	1:G:614:TRP:HB3	1.73	0.71
1:d:359:VAL:H	1:d:653:GLN:HE22	1.35	0.71
1:1:484:GLY:HA3	1:1:614:TRP:HB3	1.72	0.71
1:2:484:GLY:HA3	1:2:614:TRP:HB3	1.72	0.71
1:A:484:GLY:HA3	1:A:614:TRP:HB3	1.72	0.71
1:J:484:GLY:HA3	1:J:614:TRP:HB3	1.72	0.71
1:M:230:SER:H	1:N:413:ASN:HD21	1.35	0.71
1:S:484:GLY:HA3	1:S:614:TRP:HB3	1.72	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:W:484:GLY:HA3	1:W:614:TRP:HB3	1.72	0.71
1:g:484:GLY:HA3	1:g:614:TRP:HB3	1.72	0.71
1:r:484:GLY:HA3	1:r:614:TRP:HB3	1.72	0.71
1:O:413:ASN:HD21	1:d:230:SER:H	1.35	0.71
1:T:484:GLY:HA3	1:T:614:TRP:HB3	1.72	0.71
1:a:484:GLY:HA3	1:a:614:TRP:HB3	1.72	0.71
1:k:484:GLY:HA3	1:k:614:TRP:HB3	1.72	0.71
1:m:484:GLY:HA3	1:m:614:TRP:HB3	1.72	0.71
1:3:484:GLY:HA3	1:3:614:TRP:HB3	1.72	0.71
1:6:484:GLY:HA3	1:6:614:TRP:HB3	1.72	0.71
1:C:707:GLN:OE1	1:L:307:ASN:ND2	2.24	0.71
1:b:484:GLY:HA3	1:b:614:TRP:HB3	1.72	0.71
1:v:484:GLY:HA3	1:v:614:TRP:HB3	1.72	0.71
1:x:484:GLY:HA3	1:x:614:TRP:HB3	1.72	0.71
1:z:577:ASN:HD21	1:z:614:TRP:HB2	1.52	0.71
1:D:484:GLY:HA3	1:D:614:TRP:HB3	1.72	0.71
1:E:484:GLY:HA3	1:E:614:TRP:HB3	1.72	0.71
1:H:484:GLY:HA3	1:H:614:TRP:HB3	1.72	0.71
1:f:484:GLY:HA3	1:f:614:TRP:HB3	1.72	0.71
1:g:307:ASN:ND2	1:z:707:GLN:OE1	2.24	0.71
1:n:359:VAL:H	1:n:653:GLN:HE22	1.35	0.71
1:w:484:GLY:HA3	1:w:614:TRP:HB3	1.72	0.71
1:5:484:GLY:HA3	1:5:614:TRP:HB3	1.72	0.71
1:A:707:GLN:OE1	1:F:307:ASN:ND2	2.24	0.71
1:B:707:GLN:OE1	1:I:307:ASN:ND2	2.24	0.71
1:L:577:ASN:HD21	1:L:614:TRP:HB2	1.52	0.71
1:Q:484:GLY:HA3	1:Q:614:TRP:HB3	1.72	0.71
1:h:230:SER:H	1:i:413:ASN:HD21	1.36	0.71
1:C:307:ASN:ND2	1:L:707:GLN:OE1	2.24	0.71
1:J:307:ASN:ND2	1:K:707:GLN:OE1	2.24	0.71
1:X:413:ASN:HD21	1:f:230:SER:H	1.36	0.71
1:g:707:GLN:OE1	1:z:307:ASN:ND2	2.24	0.71
1:D:307:ASN:ND2	1:M:707:GLN:OE1	2.24	0.71
1:J:707:GLN:OE1	1:K:307:ASN:ND2	2.24	0.71
1:P:484:GLY:HA3	1:P:614:TRP:HB3	1.72	0.71
1:S:707:GLN:OE1	1:T:307:ASN:ND2	2.24	0.71
1:b:230:SER:H	1:o:413:ASN:HD21	1.35	0.71
1:D:707:GLN:OE1	1:M:307:ASN:ND2	2.24	0.70
1:N:707:GLN:OE1	1:O:307:ASN:ND2	2.24	0.70
1:V:484:GLY:HA3	1:V:614:TRP:HB3	1.72	0.70
1:i:707:GLN:OE1	1:l:307:ASN:ND2	2.24	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:j:484:GLY:HA3	1:j:614:TRP:HB3	1.72	0.70
1:n:484:GLY:HA3	1:n:614:TRP:HB3	1.72	0.70
1:p:484:GLY:HA3	1:p:614:TRP:HB3	1.72	0.70
1:v:707:GLN:OE1	1:y:307:ASN:ND2	2.24	0.70
1:O:359:VAL:H	1:O:653:GLN:HE22	1.35	0.70
1:Y:707:GLN:OE1	1:Z:307:ASN:ND2	2.24	0.70
1:7:707:GLN:OE1	1:8:307:ASN:ND2	2.24	0.70
1:E:307:ASN:ND2	1:P:707:GLN:OE1	2.24	0.70
1:G:307:ASN:ND2	1:H:707:GLN:OE1	2.24	0.70
1:S:307:ASN:ND2	1:T:707:GLN:OE1	2.24	0.70
1:d:484:GLY:HA3	1:d:614:TRP:HB3	1.72	0.70
1:E:707:GLN:OE1	1:P:307:ASN:ND2	2.24	0.70
1:l:359:VAL:H	1:l:653:GLN:HE22	1.35	0.70
1:p:707:GLN:OE1	1:s:307:ASN:ND2	2.24	0.70
1:u:307:ASN:ND2	1:1:707:GLN:OE1	2.24	0.70
1:2:307:ASN:ND2	1:4:707:GLN:OE1	2.25	0.70
1:G:707:GLN:OE1	1:H:307:ASN:ND2	2.24	0.70
1:U:307:ASN:ND2	1:V:707:GLN:OE1	2.24	0.70
1:h:307:ASN:ND2	1:k:707:GLN:OE1	2.25	0.70
1:h:707:GLN:OE1	1:k:307:ASN:ND2	2.25	0.70
1:j:707:GLN:OE1	1:w:307:ASN:ND2	2.24	0.70
1:p:307:ASN:ND2	1:s:707:GLN:OE1	2.24	0.70
1:2:707:GLN:OE1	1:4:307:ASN:ND2	2.25	0.70
1:A:307:ASN:ND2	1:F:707:GLN:OE1	2.24	0.70
1:M:484:GLY:HA3	1:M:614:TRP:HB3	1.72	0.70
1:W:707:GLN:OE1	1:X:307:ASN:ND2	2.24	0.70
1:h:484:GLY:HA3	1:h:614:TRP:HB3	1.72	0.70
1:t:307:ASN:ND2	1:5:707:GLN:OE1	2.24	0.70
1:B:307:ASN:ND2	1:I:707:GLN:OE1	2.24	0.70
1:U:707:GLN:OE1	1:V:307:ASN:ND2	2.24	0.70
1:Y:307:ASN:ND2	1:Z:707:GLN:OE1	2.24	0.70
1:Z:484:GLY:HA3	1:Z:614:TRP:HB3	1.72	0.70
1:a:307:ASN:ND2	1:3:707:GLN:OE1	2.25	0.70
1:a:707:GLN:OE1	1:3:307:ASN:ND2	2.24	0.70
1:j:307:ASN:ND2	1:w:707:GLN:OE1	2.25	0.70
1:u:484:GLY:HA3	1:u:614:TRP:HB3	1.72	0.70
1:N:307:ASN:ND2	1:O:707:GLN:OE1	2.25	0.70
1:i:307:ASN:ND2	1:l:707:GLN:OE1	2.24	0.70
1:7:307:ASN:ND2	1:8:707:GLN:OE1	2.24	0.70
1:8:484:GLY:HA3	1:8:614:TRP:HB3	1.72	0.70
1:I:484:GLY:HA3	1:I:614:TRP:HB3	1.72	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:O:484:GLY:HA3	1:O:614:TRP:HB3	1.72	0.70
1:d:307:ASN:ND2	1:n:707:GLN:OE1	2.25	0.70
1:d:707:GLN:OE1	1:n:307:ASN:ND2	2.25	0.70
1:i:484:GLY:HA3	1:i:614:TRP:HB3	1.72	0.70
1:l:484:GLY:HA3	1:l:614:TRP:HB3	1.72	0.70
1:o:307:ASN:ND2	1:6:707:GLN:OE1	2.24	0.70
1:L:484:GLY:HA3	1:L:614:TRP:HB3	1.72	0.70
1:N:484:GLY:HA3	1:N:614:TRP:HB3	1.72	0.70
1:t:707:GLN:OE1	1:5:307:ASN:ND2	2.24	0.70
1:z:484:GLY:HA3	1:z:614:TRP:HB3	1.72	0.70
1:Q:707:GLN:OE1	1:R:307:ASN:ND2	2.24	0.69
1:R:484:GLY:HA3	1:R:614:TRP:HB3	1.72	0.69
1:U:484:GLY:HA3	1:U:614:TRP:HB3	1.72	0.69
1:W:307:ASN:ND2	1:X:707:GLN:OE1	2.24	0.69
1:e:307:ASN:ND2	1:f:707:GLN:OE1	2.24	0.69
1:e:484:GLY:HA3	1:e:614:TRP:HB3	1.72	0.69
1:q:484:GLY:HA3	1:q:614:TRP:HB3	1.72	0.69
1:v:307:ASN:ND2	1:y:707:GLN:OE1	2.24	0.69
1:b:707:GLN:OE1	1:c:307:ASN:ND2	2.24	0.69
1:c:484:GLY:HA3	1:c:614:TRP:HB3	1.72	0.69
1:q:307:ASN:ND2	1:x:707:GLN:OE1	2.24	0.69
1:s:484:GLY:HA3	1:s:614:TRP:HB3	1.72	0.69
1:v:398:PHE:HB2	1:l:718:ILE:HD11	1.74	0.69
1:e:707:GLN:OE1	1:f:307:ASN:ND2	2.24	0.69
1:o:707:GLN:OE1	1:6:307:ASN:ND2	2.25	0.69
1:b:307:ASN:ND2	1:c:707:GLN:OE1	2.24	0.69
1:Q:307:ASN:ND2	1:R:707:GLN:OE1	2.24	0.69
1:q:707:GLN:OE1	1:x:307:ASN:ND2	2.24	0.69
1:u:707:GLN:OE1	1:l:307:ASN:ND2	2.25	0.69
1:A:398:PHE:HB2	1:B:718:ILE:HD11	1.75	0.69
1:V:398:PHE:HB2	1:W:718:ILE:HD11	1.75	0.69
1:B:398:PHE:HB2	1:C:718:ILE:HD11	1.75	0.69
1:D:398:PHE:HB2	1:E:718:ILE:HD11	1.75	0.69
1:h:718:ILE:HD11	1:i:398:PHE:HB2	1.75	0.69
1:k:398:PHE:HB2	1:w:718:ILE:HD11	1.75	0.69
1:t:718:ILE:HD11	1:6:398:PHE:HB2	1.75	0.69
1:2:718:ILE:HD11	1:3:398:PHE:HB2	1.75	0.69
1:8:586:ALA:HB3	1:8:600:ARG:HH11	1.58	0.69
1:F:586:ALA:HB3	1:F:600:ARG:HH11	1.58	0.69
1:G:685:GLN:HG2	1:W:408:MET:HE1	1.75	0.69
1:G:718:ILE:HD11	1:W:398:PHE:HB2	1.75	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Q:586:ALA:HB3	1:Q:600:ARG:HH11	1.58	0.69
1:S:586:ALA:HB3	1:S:600:ARG:HH11	1.58	0.69
1:U:718:ILE:HD11	1:e:398:PHE:HB2	1.75	0.69
1:Z:586:ALA:HB3	1:Z:600:ARG:HH11	1.58	0.69
1:c:398:PHE:HB2	1:s:718:ILE:HD11	1.75	0.69
1:p:398:PHE:HB2	1:6:718:ILE:HD11	1.75	0.69
1:q:718:ILE:HD11	1:y:398:PHE:HB2	1.75	0.69
1:r:586:ALA:HB3	1:r:600:ARG:HH11	1.58	0.69
1:v:586:ALA:HB3	1:v:600:ARG:HH11	1.58	0.69
1:x:586:ALA:HB3	1:x:600:ARG:HH11	1.58	0.69
1:y:586:ALA:HB3	1:y:600:ARG:HH11	1.58	0.69
1:A:586:ALA:HB3	1:A:600:ARG:HH11	1.58	0.69
1:M:718:ILE:HD11	1:N:398:PHE:HB2	1.75	0.69
1:P:586:ALA:HB3	1:P:600:ARG:HH11	1.58	0.69
1:j:586:ALA:HB3	1:j:600:ARG:HH11	1.58	0.69
1:l:586:ALA:HB3	1:l:600:ARG:HH11	1.58	0.69
1:t:685:GLN:HG2	1:6:408:MET:HE1	1.75	0.69
1:F:398:PHE:HB2	1:R:718:ILE:HD11	1.75	0.69
1:J:718:ILE:HD11	1:a:398:PHE:HB2	1.75	0.69
1:O:586:ALA:HB3	1:O:600:ARG:HH11	1.58	0.69
1:Q:718:ILE:HD11	1:S:398:PHE:HB2	1.75	0.69
1:b:718:ILE:HD11	1:o:398:PHE:HB2	1.75	0.69
1:C:586:ALA:HB3	1:C:600:ARG:HH11	1.58	0.68
1:M:398:PHE:HB2	1:c:718:ILE:HD11	1.75	0.68
1:O:718:ILE:HD11	1:P:398:PHE:HB2	1.75	0.68
1:T:586:ALA:HB3	1:T:600:ARG:HH11	1.58	0.68
1:X:398:PHE:HB2	1:f:718:ILE:HD11	1.75	0.68
1:g:586:ALA:HB3	1:g:600:ARG:HH11	1.58	0.68
1:j:398:PHE:HB2	1:l:718:ILE:HD11	1.76	0.68
1:r:398:PHE:HB2	1:x:718:ILE:HD11	1.75	0.68
1:6:586:ALA:HB3	1:6:600:ARG:HH11	1.58	0.68
1:W:586:ALA:HB3	1:W:600:ARG:HH11	1.58	0.68
1:g:718:ILE:HD11	1:1:398:PHE:HB2	1.76	0.68
1:p:685:GLN:HG2	1:q:408:MET:HE1	1.76	0.68
1:K:586:ALA:HB3	1:K:600:ARG:HH11	1.58	0.68
1:L:586:ALA:HB3	1:L:600:ARG:HH11	1.58	0.68
1:R:408:MET:HE1	1:V:685:GLN:HG2	1.76	0.68
1:e:718:ILE:HD11	1:h:398:PHE:HB2	1.75	0.68
1:m:586:ALA:HB3	1:m:600:ARG:HH11	1.58	0.68
1:z:586:ALA:HB3	1:z:600:ARG:HH11	1.58	0.68
1:4:586:ALA:HB3	1:4:600:ARG:HH11	1.58	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:685:GLN:HG2	1:L:408:MET:HE1	1.76	0.68
1:p:718:ILE:HD11	1:q:398:PHE:HB2	1.75	0.68
1:J:586:ALA:HB3	1:J:600:ARG:HH11	1.58	0.68
1:J:685:GLN:HG2	1:a:408:MET:HE1	1.75	0.68
1:U:586:ALA:HB3	1:U:600:ARG:HH11	1.58	0.68
1:Y:586:ALA:HB3	1:Y:600:ARG:HH11	1.58	0.68
1:j:408:MET:HE1	1:l:685:GLN:HG2	1.76	0.68
1:m:685:GLN:HG2	1:s:408:MET:HE1	1.74	0.68
1:s:586:ALA:HB3	1:s:600:ARG:HH11	1.58	0.68
1:v:408:MET:HE1	1:1:685:GLN:HG2	1.76	0.68
1:H:408:MET:HE1	1:Z:685:GLN:HG2	1.76	0.68
1:I:685:GLN:HG2	1:J:408:MET:HE1	1.76	0.68
1:I:718:ILE:HD11	1:J:398:PHE:HB2	1.75	0.68
1:M:586:ALA:HB3	1:M:600:ARG:HH11	1.58	0.68
1:P:718:ILE:HD11	1:Q:398:PHE:HB2	1.75	0.68
1:Z:408:MET:HE1	1:a:685:GLN:HG2	1.76	0.68
1:h:586:ALA:HB3	1:h:600:ARG:HH11	1.58	0.68
1:t:586:ALA:HB3	1:t:600:ARG:HH11	1.58	0.68
1:u:685:GLN:HG2	1:2:408:MET:HE1	1.76	0.68
1:2:586:ALA:HB3	1:2:600:ARG:HH11	1.58	0.68
1:G:586:ALA:HB3	1:G:600:ARG:HH11	1.58	0.68
1:X:685:GLN:HG2	1:Y:408:MET:HE1	1.76	0.68
1:j:718:ILE:HD11	1:x:398:PHE:HB2	1.75	0.68
1:5:408:MET:HE1	1:8:685:GLN:HG2	1.76	0.68
1:7:586:ALA:HB3	1:7:600:ARG:HH11	1.58	0.68
1:A:408:MET:HE1	1:B:685:GLN:HG2	1.76	0.68
1:C:398:PHE:HB2	1:D:718:ILE:HD11	1.75	0.68
1:O:398:PHE:HB2	1:d:718:ILE:HD11	1.75	0.68
1:O:685:GLN:HG2	1:P:408:MET:HE1	1.76	0.68
1:Y:685:GLN:HG2	1:4:408:MET:HE1	1.76	0.68
1:i:586:ALA:HB3	1:i:600:ARG:HH11	1.58	0.68
1:u:398:PHE:HB2	1:5:718:ILE:HD11	1.75	0.68
1:u:718:ILE:HD11	1:2:398:PHE:HB2	1.75	0.68
1:H:685:GLN:HG2	1:I:408:MET:HE1	1.76	0.68
1:K:408:MET:HE1	1:7:685:GLN:HG2	1.76	0.68
1:X:718:ILE:HD11	1:Y:398:PHE:HB2	1.75	0.68
1:g:398:PHE:HB2	1:k:718:ILE:HD11	1.75	0.68
1:o:685:GLN:HG2	1:7:408:MET:HE1	1.76	0.68
1:u:408:MET:HE1	1:5:685:GLN:HG2	1.76	0.68
1:z:408:MET:HE1	1:4:685:GLN:HG2	1.76	0.68
1:3:685:GLN:HG2	1:8:408:MET:HE1	1.76	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:586:ALA:HB3	1:I:600:ARG:HH11	1.58	0.68
1:N:586:ALA:HB3	1:N:600:ARG:HH11	1.58	0.68
1:R:398:PHE:HB2	1:V:718:ILE:HD11	1.75	0.68
1:l:398:PHE:HB2	1:n:718:ILE:HD11	1.75	0.68
1:l:408:MET:HE1	1:n:685:GLN:HG2	1.76	0.68
1:o:718:ILE:HD11	1:7:398:PHE:HB2	1.75	0.68
1:u:586:ALA:HB3	1:u:600:ARG:HH11	1.58	0.68
1:S:685:GLN:HG2	1:d:408:MET:HE1	1.76	0.67
1:f:586:ALA:HB3	1:f:600:ARG:HH11	1.58	0.67
1:A:685:GLN:HG2	1:E:408:MET:HE1	1.76	0.67
1:O:408:MET:HE1	1:d:685:GLN:HG2	1.76	0.67
1:b:586:ALA:HB3	1:b:600:ARG:HH11	1.58	0.67
1:d:586:ALA:HB3	1:d:600:ARG:HH11	1.58	0.67
1:n:408:MET:HE1	1:r:685:GLN:HG2	1.76	0.67
1:n:586:ALA:HB3	1:n:600:ARG:HH11	1.58	0.67
1:p:586:ALA:HB3	1:p:600:ARG:HH11	1.58	0.67
1:2:685:GLN:HG2	1:3:408:MET:HE1	1.76	0.67
1:H:718:ILE:HD11	1:I:398:PHE:HB2	1.75	0.67
1:P:685:GLN:HG2	1:Q:408:MET:HE1	1.76	0.67
1:T:685:GLN:HG2	1:U:408:MET:HE1	1.76	0.67
1:H:398:PHE:HB2	1:Z:718:ILE:HD11	1.75	0.67
1:V:586:ALA:HB3	1:V:600:ARG:HH11	1.58	0.67
1:Z:398:PHE:HB2	1:a:718:ILE:HD11	1.75	0.67
1:j:685:GLN:HG2	1:x:408:MET:HE1	1.76	0.67
1:t:408:MET:HE1	1:y:685:GLN:HG2	1.76	0.67
1:5:398:PHE:HB2	1:8:718:ILE:HD11	1.75	0.67
1:A:718:ILE:HD11	1:E:398:PHE:HB2	1.76	0.67
1:v:685:GLN:HG2	1:w:408:MET:HE1	1.76	0.67
1:3:718:ILE:HD11	1:8:398:PHE:HB2	1.75	0.67
1:D:408:MET:HE1	1:E:685:GLN:HG2	1.75	0.67
1:F:685:GLN:HG2	1:G:408:MET:HE1	1.76	0.67
1:H:586:ALA:HB3	1:H:600:ARG:HH11	1.58	0.67
1:S:718:ILE:HD11	1:d:398:PHE:HB2	1.75	0.67
1:o:586:ALA:HB3	1:o:600:ARG:HH11	1.58	0.67
1:1:586:ALA:HB3	1:1:600:ARG:HH11	1.58	0.67
1:3:586:ALA:HB3	1:3:600:ARG:HH11	1.58	0.67
1:B:586:ALA:HB3	1:B:600:ARG:HH11	1.58	0.67
1:D:586:ALA:HB3	1:D:600:ARG:HH11	1.58	0.67
1:K:398:PHE:HB2	1:7:718:ILE:HD11	1.75	0.67
1:T:408:MET:HE1	1:i:685:GLN:HG2	1.76	0.67
1:U:709:THR:O	1:U:732:ARG:NH2	2.28	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:g:685:GLN:HG2	1:l:408:MET:HE1	1.75	0.67
1:k:709:THR:O	1:k:732:ARG:NH2	2.28	0.67
1:s:709:THR:O	1:s:732:ARG:NH2	2.28	0.67
1:v:718:ILE:HD11	1:w:398:PHE:HB2	1.75	0.67
1:D:709:THR:O	1:D:732:ARG:NH2	2.28	0.67
1:K:709:THR:O	1:K:732:ARG:NH2	2.28	0.67
1:Q:709:THR:O	1:Q:732:ARG:NH2	2.28	0.67
1:k:408:MET:HE1	1:w:685:GLN:HG2	1.76	0.67
1:k:586:ALA:HB3	1:k:600:ARG:HH11	1.58	0.67
1:n:398:PHE:HB2	1:r:718:ILE:HD11	1.75	0.67
1:q:685:GLN:HG2	1:y:408:MET:HE1	1.75	0.67
1:5:586:ALA:HB3	1:5:600:ARG:HH11	1.58	0.67
1:B:408:MET:HE1	1:C:685:GLN:HG2	1.76	0.67
1:B:709:THR:O	1:B:732:ARG:NH2	2.28	0.67
1:M:685:GLN:HG2	1:N:408:MET:HE1	1.76	0.67
1:X:586:ALA:HB3	1:X:600:ARG:HH11	1.58	0.67
1:Y:718:ILE:HD11	1:4:398:PHE:HB2	1.75	0.67
1:a:586:ALA:HB3	1:a:600:ARG:HH11	1.58	0.67
1:c:586:ALA:HB3	1:c:600:ARG:HH11	1.58	0.67
1:e:586:ALA:HB3	1:e:600:ARG:HH11	1.58	0.67
1:f:398:PHE:HB2	1:z:718:ILE:HD11	1.75	0.67
1:x:709:THR:O	1:x:732:ARG:NH2	2.28	0.67
1:z:398:PHE:HB2	1:4:718:ILE:HD11	1.76	0.67
1:1:709:THR:O	1:1:732:ARG:NH2	2.28	0.67
1:4:709:THR:O	1:4:732:ARG:NH2	2.28	0.67
1:K:326:VAL:HG12	1:K:682:SER:HB3	1.77	0.67
1:L:718:ILE:HD11	1:b:398:PHE:HB2	1.75	0.67
1:N:685:GLN:HG2	1:m:408:MET:HE1	1.77	0.67
1:b:709:THR:O	1:b:732:ARG:NH2	2.28	0.67
1:e:685:GLN:HG2	1:h:408:MET:HE1	1.76	0.67
1:o:709:THR:O	1:o:732:ARG:NH2	2.28	0.67
1:F:408:MET:HE1	1:R:685:GLN:HG2	1.76	0.66
1:J:326:VAL:HG12	1:J:682:SER:HB3	1.77	0.66
1:N:709:THR:O	1:N:732:ARG:NH2	2.28	0.66
1:X:709:THR:O	1:X:732:ARG:NH2	2.28	0.66
1:e:326:VAL:HG12	1:e:682:SER:HB3	1.78	0.66
1:f:709:THR:O	1:f:732:ARG:NH2	2.28	0.66
1:m:326:VAL:HG12	1:m:682:SER:HB3	1.78	0.66
1:E:586:ALA:HB3	1:E:600:ARG:HH11	1.58	0.66
1:I:326:VAL:HG12	1:I:682:SER:HB3	1.78	0.66
1:I:709:THR:O	1:I:732:ARG:NH2	2.28	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:718:ILE:HD11	1:L:398:PHE:HB2	1.76	0.66
1:M:408:MET:HE1	1:c:685:GLN:HG2	1.76	0.66
1:P:709:THR:O	1:P:732:ARG:NH2	2.28	0.66
1:T:326:VAL:HG12	1:T:682:SER:HB3	1.78	0.66
1:T:718:ILE:HD11	1:U:398:PHE:HB2	1.75	0.66
1:c:326:VAL:HG12	1:c:682:SER:HB3	1.78	0.66
1:j:709:THR:O	1:j:732:ARG:NH2	2.28	0.66
1:u:326:VAL:HG12	1:u:682:SER:HB3	1.78	0.66
1:u:709:THR:O	1:u:732:ARG:NH2	2.28	0.66
1:2:326:VAL:HG12	1:2:682:SER:HB3	1.78	0.66
1:4:326:VAL:HG12	1:4:682:SER:HB3	1.78	0.66
1:L:685:GLN:HG2	1:b:408:MET:HE1	1.76	0.66
1:O:326:VAL:HG12	1:O:682:SER:HB3	1.77	0.66
1:f:408:MET:HE1	1:z:685:GLN:HG2	1.76	0.66
1:i:709:THR:O	1:i:732:ARG:NH2	2.28	0.66
1:q:586:ALA:HB3	1:q:600:ARG:HH11	1.58	0.66
1:w:586:ALA:HB3	1:w:600:ARG:HH11	1.58	0.66
1:8:709:THR:O	1:8:732:ARG:NH2	2.28	0.66
1:h:685:GLN:HG2	1:i:408:MET:HE1	1.76	0.66
1:l:326:VAL:HG12	1:l:682:SER:HB3	1.78	0.66
1:o:326:VAL:HG12	1:o:682:SER:HB3	1.78	0.66
1:t:709:THR:O	1:t:732:ARG:NH2	2.28	0.66
1:w:709:THR:O	1:w:732:ARG:NH2	2.28	0.66
1:A:709:THR:O	1:A:732:ARG:NH2	2.28	0.66
1:E:709:THR:O	1:E:732:ARG:NH2	2.28	0.66
1:G:709:THR:O	1:G:732:ARG:NH2	2.28	0.66
1:R:586:ALA:HB3	1:R:600:ARG:HH11	1.58	0.66
1:T:398:PHE:HB2	1:i:718:ILE:HD11	1.75	0.66
1:X:326:VAL:HG12	1:X:682:SER:HB3	1.77	0.66
1:Z:709:THR:O	1:Z:732:ARG:NH2	2.28	0.66
1:b:685:GLN:HG2	1:o:408:MET:HE1	1.76	0.66
1:r:408:MET:HE1	1:x:685:GLN:HG2	1.76	0.66
1:G:326:VAL:HG12	1:G:682:SER:HB3	1.77	0.66
1:N:718:ILE:HD11	1:m:398:PHE:HB2	1.76	0.66
1:c:408:MET:HE1	1:s:685:GLN:HG2	1.76	0.66
1:l:709:THR:O	1:l:732:ARG:NH2	2.28	0.66
1:v:709:THR:O	1:v:732:ARG:NH2	2.28	0.66
1:L:326:VAL:HG12	1:L:682:SER:HB3	1.78	0.66
1:O:709:THR:O	1:O:732:ARG:NH2	2.28	0.66
1:b:326:VAL:HG12	1:b:682:SER:HB3	1.78	0.66
1:f:326:VAL:HG12	1:f:682:SER:HB3	1.78	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:g:709:THR:O	1:g:732:ARG:NH2	2.28	0.66
1:t:326:VAL:HG12	1:t:682:SER:HB3	1.78	0.66
1:1:326:VAL:HG12	1:1:682:SER:HB3	1.78	0.66
1:3:709:THR:O	1:3:732:ARG:NH2	2.28	0.66
1:B:326:VAL:HG12	1:B:682:SER:HB3	1.78	0.66
1:C:709:THR:O	1:C:732:ARG:NH2	2.28	0.66
1:H:422:GLU:OE2	1:H:648:LYS:N	2.29	0.66
1:I:422:GLU:OE2	1:I:648:LYS:N	2.29	0.66
1:Q:685:GLN:HG2	1:S:408:MET:HE1	1.76	0.66
1:V:408:MET:HE1	1:W:685:GLN:HG2	1.76	0.66
1:X:408:MET:HE1	1:f:685:GLN:HG2	1.76	0.66
1:Z:326:VAL:HG12	1:Z:682:SER:HB3	1.78	0.66
1:a:709:THR:O	1:a:732:ARG:NH2	2.28	0.66
1:u:422:GLU:OE2	1:u:648:LYS:N	2.29	0.66
1:v:326:VAL:HG12	1:v:682:SER:HB3	1.77	0.66
1:y:326:VAL:HG12	1:y:682:SER:HB3	1.77	0.66
1:z:326:VAL:HG12	1:z:682:SER:HB3	1.78	0.66
1:5:422:GLU:OE2	1:5:648:LYS:N	2.29	0.66
1:8:326:VAL:HG12	1:8:682:SER:HB3	1.78	0.66
1:A:326:VAL:HG12	1:A:682:SER:HB3	1.78	0.66
1:F:326:VAL:HG12	1:F:682:SER:HB3	1.78	0.66
1:H:709:THR:O	1:H:732:ARG:NH2	2.28	0.66
1:S:422:GLU:OE2	1:S:648:LYS:N	2.29	0.66
1:U:685:GLN:HG2	1:e:408:MET:HE1	1.76	0.66
1:W:422:GLU:OE2	1:W:648:LYS:N	2.29	0.66
1:W:709:THR:O	1:W:732:ARG:NH2	2.28	0.66
1:Y:709:THR:O	1:Y:732:ARG:NH2	2.28	0.66
1:i:326:VAL:HG12	1:i:682:SER:HB3	1.77	0.66
1:r:422:GLU:OE2	1:r:648:LYS:N	2.29	0.66
1:t:398:PHE:HB2	1:y:718:ILE:HD11	1.75	0.66
1:6:422:GLU:OE2	1:6:648:LYS:N	2.29	0.66
1:B:422:GLU:OE2	1:B:648:LYS:N	2.29	0.66
1:D:326:VAL:HG12	1:D:682:SER:HB3	1.78	0.66
1:R:326:VAL:HG12	1:R:682:SER:HB3	1.78	0.66
1:V:326:VAL:HG12	1:V:682:SER:HB3	1.78	0.66
1:k:326:VAL:HG12	1:k:682:SER:HB3	1.78	0.66
1:n:709:THR:O	1:n:732:ARG:NH2	2.28	0.66
1:p:326:VAL:HG12	1:p:682:SER:HB3	1.78	0.66
1:q:326:VAL:HG12	1:q:682:SER:HB3	1.78	0.66
1:1:422:GLU:OE2	1:1:648:LYS:N	2.29	0.66
1:5:709:THR:O	1:5:732:ARG:NH2	2.28	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:6:709:THR:O	1:6:732:ARG:NH2	2.28	0.66
1:7:709:THR:O	1:7:732:ARG:NH2	2.28	0.66
1:N:326:VAL:HG12	1:N:682:SER:HB3	1.78	0.65
1:d:709:THR:O	1:d:732:ARG:NH2	2.28	0.65
1:p:408:MET:HE1	1:6:685:GLN:HG2	1.76	0.65
1:C:408:MET:HE1	1:D:685:GLN:HG2	1.76	0.65
1:H:326:VAL:HG12	1:H:682:SER:HB3	1.78	0.65
1:J:422:GLU:OE2	1:J:648:LYS:N	2.29	0.65
1:L:709:THR:O	1:L:732:ARG:NH2	2.28	0.65
1:O:422:GLU:OE2	1:O:648:LYS:N	2.29	0.65
1:a:326:VAL:HG12	1:a:682:SER:HB3	1.78	0.65
1:g:422:GLU:OE2	1:g:648:LYS:N	2.29	0.65
1:q:709:THR:O	1:q:732:ARG:NH2	2.28	0.65
1:C:422:GLU:OE2	1:C:648:LYS:N	2.29	0.65
1:D:305:LEU:HG	1:D:429:MET:HE1	1.79	0.65
1:F:718:ILE:HD11	1:G:398:PHE:HB2	1.76	0.65
1:J:709:THR:O	1:J:732:ARG:NH2	2.28	0.65
1:N:422:GLU:OE2	1:N:648:LYS:N	2.29	0.65
1:U:326:VAL:HG12	1:U:682:SER:HB3	1.78	0.65
1:i:422:GLU:OE2	1:i:648:LYS:N	2.29	0.65
1:k:305:LEU:HG	1:k:429:MET:HE1	1.79	0.65
1:l:422:GLU:OE2	1:l:648:LYS:N	2.29	0.65
1:s:326:VAL:HG12	1:s:682:SER:HB3	1.78	0.65
1:2:422:GLU:OE2	1:2:648:LYS:N	2.29	0.65
1:3:326:VAL:HG12	1:3:682:SER:HB3	1.78	0.65
1:P:422:GLU:OE2	1:P:648:LYS:N	2.29	0.65
1:R:305:LEU:HG	1:R:429:MET:HE1	1.79	0.65
1:R:709:THR:O	1:R:732:ARG:NH2	2.28	0.65
1:W:305:LEU:HG	1:W:429:MET:HE1	1.79	0.65
1:Z:422:GLU:OE2	1:Z:648:LYS:N	2.29	0.65
1:j:422:GLU:OE2	1:j:648:LYS:N	2.29	0.65
1:m:718:ILE:HD11	1:s:398:PHE:HB2	1.76	0.65
1:z:709:THR:O	1:z:732:ARG:NH2	2.28	0.65
1:5:326:VAL:HG12	1:5:682:SER:HB3	1.78	0.65
1:6:305:LEU:HG	1:6:429:MET:HE1	1.79	0.65
1:8:305:LEU:HG	1:8:429:MET:HE1	1.79	0.65
1:8:422:GLU:OE2	1:8:648:LYS:N	2.29	0.65
1:Q:422:GLU:OE2	1:Q:648:LYS:N	2.29	0.65
1:S:709:THR:O	1:S:732:ARG:NH2	2.28	0.65
1:U:305:LEU:HG	1:U:429:MET:HE1	1.79	0.65
1:Z:305:LEU:HG	1:Z:429:MET:HE1	1.79	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:g:408:MET:HE1	1:k:685:GLN:HG2	1.76	0.65
1:q:305:LEU:HG	1:q:429:MET:HE1	1.79	0.65
1:s:305:LEU:HG	1:s:429:MET:HE1	1.79	0.65
1:w:326:VAL:HG12	1:w:682:SER:HB3	1.78	0.65
1:2:709:THR:O	1:2:732:ARG:NH2	2.28	0.65
1:E:326:VAL:HG12	1:E:682:SER:HB3	1.78	0.65
1:I:305:LEU:HG	1:I:429:MET:HE1	1.79	0.65
1:d:422:GLU:OE2	1:d:648:LYS:N	2.29	0.65
1:e:709:THR:O	1:e:732:ARG:NH2	2.28	0.65
1:m:709:THR:O	1:m:732:ARG:NH2	2.28	0.65
1:u:305:LEU:HG	1:u:429:MET:HE1	1.79	0.65
1:A:305:LEU:HG	1:A:429:MET:HE1	1.79	0.65
1:K:422:GLU:OE2	1:K:648:LYS:N	2.29	0.65
1:T:709:THR:O	1:T:732:ARG:NH2	2.28	0.65
1:U:422:GLU:OE2	1:U:648:LYS:N	2.29	0.65
1:c:709:THR:O	1:c:732:ARG:NH2	2.28	0.65
1:r:709:THR:O	1:r:732:ARG:NH2	2.28	0.65
1:v:305:LEU:HG	1:v:429:MET:HE1	1.79	0.65
1:E:305:LEU:HG	1:E:429:MET:HE1	1.79	0.65
1:M:305:LEU:HG	1:M:429:MET:HE1	1.79	0.65
1:Y:326:VAL:HG12	1:Y:682:SER:HB3	1.78	0.65
1:a:422:GLU:OE2	1:a:648:LYS:N	2.29	0.65
1:e:422:GLU:OE2	1:e:648:LYS:N	2.29	0.65
1:n:422:GLU:OE2	1:n:648:LYS:N	2.29	0.65
1:p:709:THR:O	1:p:732:ARG:NH2	2.28	0.65
1:s:422:GLU:OE2	1:s:648:LYS:N	2.29	0.65
1:x:422:GLU:OE2	1:x:648:LYS:N	2.29	0.65
1:y:422:GLU:OE2	1:y:648:LYS:N	2.29	0.65
1:3:422:GLU:OE2	1:3:648:LYS:N	2.29	0.65
1:4:422:GLU:OE2	1:4:648:LYS:N	2.29	0.65
1:F:422:GLU:OE2	1:F:648:LYS:N	2.29	0.65
1:Q:326:VAL:HG12	1:Q:682:SER:HB3	1.78	0.65
1:V:305:LEU:HG	1:V:429:MET:HE1	1.79	0.65
1:b:422:GLU:OE2	1:b:648:LYS:N	2.29	0.65
1:c:305:LEU:HG	1:c:429:MET:HE1	1.79	0.65
1:c:422:GLU:OE2	1:c:648:LYS:N	2.29	0.65
1:e:305:LEU:HG	1:e:429:MET:HE1	1.79	0.65
1:p:305:LEU:HG	1:p:429:MET:HE1	1.79	0.65
1:r:326:VAL:HG12	1:r:682:SER:HB3	1.77	0.65
1:w:305:LEU:HG	1:w:429:MET:HE1	1.79	0.65
1:x:326:VAL:HG12	1:x:682:SER:HB3	1.78	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:7:326:VAL:HG12	1:7:682:SER:HB3	1.78	0.65
1:B:305:LEU:HG	1:B:429:MET:HE1	1.79	0.65
1:M:326:VAL:HG12	1:M:682:SER:HB3	1.78	0.65
1:N:305:LEU:HG	1:N:429:MET:HE1	1.79	0.65
1:O:493:PHE:HB3	1:O:498:ASN:HB3	1.80	0.65
1:T:305:LEU:HG	1:T:429:MET:HE1	1.79	0.65
1:V:709:THR:O	1:V:732:ARG:NH2	2.28	0.65
1:h:305:LEU:HG	1:h:429:MET:HE1	1.79	0.65
1:h:326:VAL:HG12	1:h:682:SER:HB3	1.78	0.65
1:i:305:LEU:HG	1:i:429:MET:HE1	1.79	0.65
1:n:305:LEU:HG	1:n:429:MET:HE1	1.79	0.65
1:S:326:VAL:HG12	1:S:682:SER:HB3	1.78	0.64
1:V:422:GLU:OE2	1:V:648:LYS:N	2.29	0.64
1:d:305:LEU:HG	1:d:429:MET:HE1	1.79	0.64
1:g:326:VAL:HG12	1:g:682:SER:HB3	1.78	0.64
1:l:493:PHE:HB3	1:l:498:ASN:HB3	1.80	0.64
1:m:305:LEU:HG	1:m:429:MET:HE1	1.79	0.64
1:o:422:GLU:OE2	1:o:648:LYS:N	2.29	0.64
1:1:305:LEU:HG	1:1:429:MET:HE1	1.79	0.64
1:4:493:PHE:HB3	1:4:498:ASN:HB3	1.80	0.64
1:H:493:PHE:HB3	1:H:498:ASN:HB3	1.79	0.64
1:K:493:PHE:HB3	1:K:498:ASN:HB3	1.80	0.64
1:L:493:PHE:HB3	1:L:498:ASN:HB3	1.80	0.64
1:M:422:GLU:OE2	1:M:648:LYS:N	2.29	0.64
1:b:493:PHE:HB3	1:b:498:ASN:HB3	1.80	0.64
1:c:493:PHE:HB3	1:c:498:ASN:HB3	1.79	0.64
1:e:493:PHE:HB3	1:e:498:ASN:HB3	1.79	0.64
1:f:422:GLU:OE2	1:f:648:LYS:N	2.29	0.64
1:f:493:PHE:HB3	1:f:498:ASN:HB3	1.80	0.64
1:h:422:GLU:OE2	1:h:648:LYS:N	2.29	0.64
1:k:422:GLU:OE2	1:k:648:LYS:N	2.29	0.64
1:v:422:GLU:OE2	1:v:648:LYS:N	2.29	0.64
1:y:305:LEU:HG	1:y:429:MET:HE1	1.79	0.64
1:5:305:LEU:HG	1:5:429:MET:HE1	1.79	0.64
1:5:493:PHE:HB3	1:5:498:ASN:HB3	1.80	0.64
1:7:422:GLU:OE2	1:7:648:LYS:N	2.29	0.64
1:D:422:GLU:OE2	1:D:648:LYS:N	2.29	0.64
1:F:305:LEU:HG	1:F:429:MET:HE1	1.79	0.64
1:H:305:LEU:HG	1:H:429:MET:HE1	1.79	0.64
1:M:709:THR:O	1:M:732:ARG:NH2	2.28	0.64
1:P:326:VAL:HG12	1:P:682:SER:HB3	1.78	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:P:493:PHE:HB3	1:P:498:ASN:HB3	1.80	0.64
1:X:422:GLU:OE2	1:X:648:LYS:N	2.29	0.64
1:X:493:PHE:HB3	1:X:498:ASN:HB3	1.80	0.64
1:d:326:VAL:HG12	1:d:682:SER:HB3	1.78	0.64
1:n:326:VAL:HG12	1:n:682:SER:HB3	1.77	0.64
1:o:493:PHE:HB3	1:o:498:ASN:HB3	1.80	0.64
1:r:305:LEU:HG	1:r:429:MET:HE1	1.79	0.64
1:w:422:GLU:OE2	1:w:648:LYS:N	2.29	0.64
1:y:709:THR:O	1:y:732:ARG:NH2	2.28	0.64
1:A:422:GLU:OE2	1:A:648:LYS:N	2.29	0.64
1:C:326:VAL:HG12	1:C:682:SER:HB3	1.78	0.64
1:F:709:THR:O	1:F:732:ARG:NH2	2.28	0.64
1:J:493:PHE:HB3	1:J:498:ASN:HB3	1.80	0.64
1:O:305:LEU:HG	1:O:429:MET:HE1	1.79	0.64
1:S:305:LEU:HG	1:S:429:MET:HE1	1.79	0.64
1:Y:422:GLU:OE2	1:Y:648:LYS:N	2.29	0.64
1:h:709:THR:O	1:h:732:ARG:NH2	2.28	0.64
1:j:493:PHE:HB3	1:j:498:ASN:HB3	1.80	0.64
1:p:422:GLU:OE2	1:p:648:LYS:N	2.29	0.64
1:7:493:PHE:HB3	1:7:498:ASN:HB3	1.80	0.64
1:E:422:GLU:OE2	1:E:648:LYS:N	2.29	0.64
1:G:493:PHE:HB3	1:G:498:ASN:HB3	1.79	0.64
1:I:493:PHE:HB3	1:I:498:ASN:HB3	1.80	0.64
1:L:422:GLU:OE2	1:L:648:LYS:N	2.29	0.64
1:W:326:VAL:HG12	1:W:682:SER:HB3	1.78	0.64
1:W:493:PHE:HB3	1:W:498:ASN:HB3	1.79	0.64
1:Y:493:PHE:HB3	1:Y:498:ASN:HB3	1.80	0.64
1:q:422:GLU:OE2	1:q:648:LYS:N	2.29	0.64
1:t:493:PHE:HB3	1:t:498:ASN:HB3	1.80	0.64
1:w:493:PHE:HB3	1:w:498:ASN:HB3	1.79	0.64
1:z:493:PHE:HB3	1:z:498:ASN:HB3	1.80	0.64
1:2:493:PHE:HB3	1:2:498:ASN:HB3	1.80	0.64
1:6:326:VAL:HG12	1:6:682:SER:HB3	1.78	0.64
1:6:493:PHE:HB3	1:6:498:ASN:HB3	1.80	0.64
1:T:422:GLU:OE2	1:T:648:LYS:N	2.29	0.64
1:Y:638:PRO:HD2	2:Y:801:D5M:H2'2	1.80	0.64
1:Z:638:PRO:HD2	2:Z:801:D5M:H2'2	1.80	0.64
1:j:326:VAL:HG12	1:j:682:SER:HB3	1.78	0.64
1:l:305:LEU:HG	1:l:429:MET:HE1	1.79	0.64
1:m:422:GLU:OE2	1:m:648:LYS:N	2.29	0.64
1:v:493:PHE:HB3	1:v:498:ASN:HB3	1.79	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:z:422:GLU:OE2	1:z:648:LYS:N	2.29	0.64
1:7:638:PRO:HD2	2:7:801:D5M:H2'2	1.80	0.64
1:A:493:PHE:HB3	1:A:498:ASN:HB3	1.80	0.64
1:E:493:PHE:HB3	1:E:498:ASN:HB3	1.80	0.64
1:G:422:GLU:OE2	1:G:648:LYS:N	2.29	0.64
1:G:638:PRO:HD2	2:G:801:D5M:H2'2	1.80	0.64
1:H:638:PRO:HD2	2:H:801:D5M:H2'2	1.80	0.64
1:Q:305:LEU:HG	1:Q:429:MET:HE1	1.79	0.64
1:Q:638:PRO:HD2	2:Q:801:D5M:H2'2	1.80	0.64
1:R:422:GLU:OE2	1:R:648:LYS:N	2.29	0.64
1:X:305:LEU:HG	1:X:429:MET:HE1	1.79	0.64
1:n:493:PHE:HB3	1:n:498:ASN:HB3	1.80	0.64
1:o:305:LEU:HG	1:o:429:MET:HE1	1.79	0.64
1:t:422:GLU:OE2	1:t:648:LYS:N	2.29	0.64
1:t:638:PRO:HD2	2:t:801:D5M:H2'2	1.80	0.64
1:u:493:PHE:HB3	1:u:498:ASN:HB3	1.80	0.64
1:x:638:PRO:HD2	2:x:801:D5M:H2'2	1.80	0.64
1:4:638:PRO:HD2	2:4:801:D5M:H2'2	1.80	0.64
1:5:638:PRO:HD2	2:5:801:D5M:H2'2	1.80	0.64
1:8:638:PRO:HD2	2:8:801:D5M:H2'2	1.80	0.64
1:G:305:LEU:HG	1:G:429:MET:HE1	1.79	0.64
1:J:638:PRO:HD2	2:J:801:D5M:H2'2	1.80	0.64
1:K:638:PRO:HD2	2:K:801:D5M:H2'2	1.80	0.64
1:a:305:LEU:HG	1:a:429:MET:HE1	1.79	0.64
1:a:638:PRO:HD2	2:a:801:D5M:H2'2	1.80	0.64
1:d:493:PHE:HB3	1:d:498:ASN:HB3	1.80	0.64
1:j:305:LEU:HG	1:j:429:MET:HE1	1.79	0.64
1:q:638:PRO:HD2	2:q:801:D5M:H2'2	1.80	0.64
1:r:493:PHE:HB3	1:r:498:ASN:HB3	1.80	0.64
1:t:305:LEU:HG	1:t:429:MET:HE1	1.79	0.64
1:x:305:LEU:HG	1:x:429:MET:HE1	1.79	0.64
1:2:305:LEU:HG	1:2:429:MET:HE1	1.79	0.64
1:3:638:PRO:HD2	2:3:801:D5M:H2'2	1.80	0.64
1:E:638:PRO:HD2	2:E:801:D5M:H2'2	1.80	0.64
1:N:493:PHE:HB3	1:N:498:ASN:HB3	1.80	0.64
1:P:305:LEU:HG	1:P:429:MET:HE1	1.79	0.64
1:R:638:PRO:HD2	2:R:801:D5M:H2'2	1.80	0.64
1:S:493:PHE:HB3	1:S:498:ASN:HB3	1.80	0.64
1:i:493:PHE:HB3	1:i:498:ASN:HB3	1.80	0.64
1:J:305:LEU:HG	1:J:429:MET:HE1	1.79	0.64
1:K:305:LEU:HG	1:K:429:MET:HE1	1.79	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Y:305:LEU:HG	1:Y:429:MET:HE1	1.79	0.64
1:n:638:PRO:HD2	2:n:801:D5M:H2'2	1.80	0.64
1:2:638:PRO:HD2	2:2:801:D5M:H2'2	1.80	0.64
1:3:305:LEU:HG	1:3:429:MET:HE1	1.79	0.64
1:P:638:PRO:HD2	2:P:801:D5M:H2'2	1.80	0.63
1:X:638:PRO:HD2	2:X:801:D5M:H2'2	1.80	0.63
1:d:638:PRO:HD2	2:d:801:D5M:H2'2	1.80	0.63
1:w:638:PRO:HD2	2:w:801:D5M:H2'2	1.80	0.63
1:7:305:LEU:HG	1:7:429:MET:HE1	1.79	0.63
1:j:638:PRO:HD2	2:j:801:D5M:H2'2	1.80	0.63
1:o:638:PRO:HD2	2:o:801:D5M:H2'2	1.80	0.63
1:z:305:LEU:HG	1:z:429:MET:HE1	1.79	0.63
1:L:305:LEU:HG	1:L:429:MET:HE1	1.79	0.63
1:Q:493:PHE:HB3	1:Q:498:ASN:HB3	1.80	0.63
1:Z:493:PHE:HB3	1:Z:498:ASN:HB3	1.80	0.63
1:h:493:PHE:HB3	1:h:498:ASN:HB3	1.80	0.63
1:y:638:PRO:HD2	2:y:801:D5M:H2'2	1.80	0.63
1:4:305:LEU:HG	1:4:429:MET:HE1	1.79	0.63
1:8:493:PHE:HB3	1:8:498:ASN:HB3	1.79	0.63
1:F:638:PRO:HD2	2:F:801:D5M:H2'2	1.80	0.63
1:U:493:PHE:HB3	1:U:498:ASN:HB3	1.80	0.63
1:b:305:LEU:HG	1:b:429:MET:HE1	1.79	0.63
1:i:638:PRO:HD2	2:i:801:D5M:H2'2	1.80	0.63
1:u:638:PRO:HD2	2:u:801:D5M:H2'2	1.80	0.63
1:1:638:PRO:HD2	2:1:801:D5M:H2'2	1.80	0.63
1:B:638:PRO:HD2	2:B:801:D5M:H2'2	1.80	0.63
1:C:638:PRO:HD2	2:C:801:D5M:H2'2	1.80	0.63
1:H:375:ILE:HD12	1:I:677:PHE:HE1	1.64	0.63
1:M:493:PHE:HB3	1:M:498:ASN:HB3	1.80	0.63
1:N:638:PRO:HD2	2:N:801:D5M:H2'2	1.80	0.63
1:W:638:PRO:HD2	2:W:801:D5M:H2'2	1.80	0.63
1:f:305:LEU:HG	1:f:429:MET:HE1	1.79	0.63
1:x:493:PHE:HB3	1:x:498:ASN:HB3	1.80	0.63
1:D:493:PHE:HB3	1:D:498:ASN:HB3	1.79	0.63
1:I:638:PRO:HD2	2:I:801:D5M:H2'2	1.80	0.63
1:g:638:PRO:HD2	2:g:801:D5M:H2'2	1.80	0.63
1:q:493:PHE:HB3	1:q:498:ASN:HB3	1.80	0.63
1:s:493:PHE:HB3	1:s:498:ASN:HB3	1.80	0.63
1:6:638:PRO:HD2	2:6:801:D5M:H2'2	1.80	0.63
1:k:493:PHE:HB3	1:k:498:ASN:HB3	1.80	0.63
1:l:638:PRO:HD2	2:l:801:D5M:H2'2	1.80	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:v:638:PRO:HD2	2:v:801:D5M:H2'2	1.80	0.63
1:A:638:PRO:HD2	2:A:801:D5M:H2'2	1.80	0.63
1:O:638:PRO:HD2	2:O:801:D5M:H2'2	1.80	0.63
1:m:375:ILE:HD12	1:s:677:PHE:HE1	1.64	0.63
1:m:493:PHE:HB3	1:m:498:ASN:HB3	1.80	0.63
1:l:493:PHE:HB3	1:l:498:ASN:HB3	1.80	0.63
1:R:493:PHE:HB3	1:R:498:ASN:HB3	1.80	0.63
1:g:305:LEU:HG	1:g:429:MET:HE1	1.79	0.63
1:B:493:PHE:HB3	1:B:498:ASN:HB3	1.80	0.62
1:C:305:LEU:HG	1:C:429:MET:HE1	1.79	0.62
1:L:638:PRO:HD2	2:L:801:D5M:H2'2	1.80	0.62
1:S:638:PRO:HD2	2:S:801:D5M:H2'2	1.80	0.62
1:T:493:PHE:HB3	1:T:498:ASN:HB3	1.80	0.62
1:p:493:PHE:HB3	1:p:498:ASN:HB3	1.80	0.62
1:r:638:PRO:HD2	2:r:801:D5M:H2'2	1.80	0.62
1:C:493:PHE:HB3	1:C:498:ASN:HB3	1.80	0.62
1:a:493:PHE:HB3	1:a:498:ASN:HB3	1.80	0.62
1:c:677:PHE:HE1	1:s:375:ILE:HD12	1.64	0.62
1:m:638:PRO:HD2	2:m:801:D5M:H2'2	1.80	0.62
1:u:677:PHE:HE1	1:5:375:ILE:HD12	1.65	0.62
1:3:493:PHE:HB3	1:3:498:ASN:HB3	1.80	0.62
1:H:677:PHE:HE1	1:Z:375:ILE:HD12	1.65	0.62
1:T:638:PRO:HD2	2:T:801:D5M:H2'2	1.80	0.62
1:X:375:ILE:HD12	1:Y:677:PHE:HE1	1.64	0.62
1:Z:677:PHE:HE1	1:a:375:ILE:HD12	1.65	0.62
1:g:493:PHE:HB3	1:g:498:ASN:HB3	1.80	0.62
1:t:677:PHE:HE1	1:y:375:ILE:HD12	1.64	0.62
1:z:638:PRO:HD2	2:z:801:D5M:H2'2	1.80	0.62
1:5:677:PHE:HE1	1:8:375:ILE:HD12	1.64	0.62
1:F:375:ILE:HD12	1:G:677:PHE:HE1	1.64	0.62
1:J:375:ILE:HD12	1:a:677:PHE:HE1	1.65	0.62
1:V:493:PHE:HB3	1:V:498:ASN:HB3	1.80	0.62
1:r:677:PHE:HE1	1:x:375:ILE:HD12	1.64	0.62
1:2:375:ILE:HD12	1:3:677:PHE:HE1	1.65	0.62
1:3:375:ILE:HD12	1:8:677:PHE:HE1	1.65	0.62
1:c:638:PRO:HD2	2:c:801:D5M:H2'2	1.80	0.62
1:g:375:ILE:HD12	1:l:677:PHE:HE1	1.64	0.62
1:o:375:ILE:HD12	1:7:677:PHE:HE1	1.65	0.62
1:B:677:PHE:HE1	1:C:375:ILE:HD12	1.64	0.62
1:M:375:ILE:HD12	1:N:677:PHE:HE1	1.64	0.62
1:T:375:ILE:HD12	1:U:677:PHE:HE1	1.64	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:U:375:ILE:HD12	1:e:677:PHE:HE1	1.65	0.62
1:b:638:PRO:HD2	2:b:801:D5M:H2'2	1.80	0.62
1:e:638:PRO:HD2	2:e:801:D5M:H2'2	1.80	0.62
1:f:638:PRO:HD2	2:f:801:D5M:H2'2	1.80	0.62
1:t:375:ILE:HD12	1:6:677:PHE:HE1	1.65	0.62
1:F:677:PHE:HE1	1:R:375:ILE:HD12	1.65	0.62
1:G:375:ILE:HD12	1:W:677:PHE:HE1	1.65	0.62
1:Q:375:ILE:HD12	1:S:677:PHE:HE1	1.64	0.62
1:h:375:ILE:HD12	1:i:677:PHE:HE1	1.64	0.62
1:k:638:PRO:HD2	2:k:801:D5M:H2'2	1.80	0.62
1:z:677:PHE:HE1	1:4:375:ILE:HD12	1.64	0.62
1:l:677:PHE:HE1	1:n:375:ILE:HD12	1.65	0.62
1:q:375:ILE:HD12	1:y:677:PHE:HE1	1.65	0.62
1:v:677:PHE:HE1	1:1:375:ILE:HD12	1.65	0.62
1:y:493:PHE:HB3	1:y:498:ASN:HB3	1.79	0.62
1:A:375:ILE:HD12	1:E:677:PHE:HE1	1.64	0.62
1:D:638:PRO:HD2	2:D:801:D5M:H2'2	1.80	0.62
1:I:375:ILE:HD12	1:J:677:PHE:HE1	1.64	0.62
1:K:375:ILE:HD12	1:L:677:PHE:HE1	1.65	0.62
1:K:677:PHE:HE1	1:7:375:ILE:HD12	1.65	0.62
1:O:677:PHE:HE1	1:d:375:ILE:HD12	1.65	0.62
1:Y:375:ILE:HD12	1:4:677:PHE:HE1	1.65	0.62
1:A:677:PHE:HE1	1:B:375:ILE:HD12	1.65	0.61
1:F:493:PHE:HB3	1:F:498:ASN:HB3	1.80	0.61
1:V:638:PRO:HD2	2:V:801:D5M:H2'2	1.80	0.61
1:D:677:PHE:HE1	1:E:375:ILE:HD12	1.65	0.61
1:P:375:ILE:HD12	1:Q:677:PHE:HE1	1.65	0.61
1:j:677:PHE:HE1	1:l:375:ILE:HD12	1.64	0.61
1:m:434:GLN:NE2	1:n:357:PRO:HB3	2.15	0.61
1:v:375:ILE:HD12	1:w:677:PHE:HE1	1.64	0.61
1:V:677:PHE:HE1	1:W:375:ILE:HD12	1.65	0.61
1:h:638:PRO:HD2	2:h:801:D5M:H2'2	1.80	0.61
1:O:375:ILE:HD12	1:P:677:PHE:HE1	1.65	0.61
1:e:375:ILE:HD12	1:h:677:PHE:HE1	1.64	0.61
1:p:638:PRO:HD2	2:p:801:D5M:H2'2	1.80	0.61
1:u:375:ILE:HD12	1:2:677:PHE:HE1	1.64	0.61
1:F:375:ILE:HD13	1:G:662:PRO:HG3	1.83	0.61
1:L:375:ILE:HD12	1:b:677:PHE:HE1	1.64	0.61
1:M:638:PRO:HD2	2:M:801:D5M:H2'2	1.80	0.61
1:M:677:PHE:HE1	1:c:375:ILE:HD12	1.65	0.61
1:c:357:PRO:HB3	1:p:434:GLN:NE2	2.16	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:g:677:PHE:HE1	1:k:375:ILE:HD12	1.65	0.61
1:p:677:PHE:HE1	1:6:375:ILE:HD12	1.65	0.61
1:t:662:PRO:HG3	1:y:375:ILE:HD13	1.83	0.61
1:W:290:TYR:OH	1:W:317:MET:SD	2.56	0.61
1:j:375:ILE:HD12	1:x:677:PHE:HE1	1.65	0.61
1:k:677:PHE:HE1	1:w:375:ILE:HD12	1.65	0.61
1:s:638:PRO:HD2	2:s:801:D5M:H2'2	1.80	0.61
1:6:290:TYR:OH	1:6:317:MET:SD	2.56	0.61
1:C:677:PHE:HE1	1:D:375:ILE:HD12	1.65	0.61
1:F:662:PRO:HG3	1:R:375:ILE:HD13	1.83	0.61
1:P:375:ILE:HD13	1:Q:662:PRO:HG3	1.83	0.61
1:V:434:GLN:NE2	1:e:357:PRO:HB3	2.16	0.61
1:W:434:GLN:NE2	1:Y:357:PRO:HB3	2.16	0.61
1:c:434:GLN:NE2	1:o:357:PRO:HB3	2.16	0.61
1:E:357:PRO:HB3	1:F:434:GLN:NE2	2.16	0.61
1:T:434:GLN:NE2	1:d:357:PRO:HB3	2.16	0.61
1:T:677:PHE:HE1	1:i:375:ILE:HD12	1.65	0.61
1:U:638:PRO:HD2	2:U:801:D5M:H2'2	1.80	0.61
1:X:357:PRO:HB3	1:e:434:GLN:NE2	2.16	0.61
1:h:375:ILE:HD13	1:i:662:PRO:HG3	1.83	0.61
1:j:434:GLN:NE2	1:k:357:PRO:HB3	2.16	0.61
1:6:434:GLN:NE2	1:7:357:PRO:HB3	2.16	0.61
1:D:357:PRO:HB3	1:P:434:GLN:NE2	2.16	0.61
1:G:434:GLN:NE2	1:I:357:PRO:HB3	2.16	0.61
1:M:375:ILE:HD13	1:N:662:PRO:HG3	1.83	0.61
1:X:677:PHE:HE1	1:f:375:ILE:HD12	1.65	0.61
1:e:375:ILE:HD13	1:h:662:PRO:HG3	1.83	0.61
1:p:375:ILE:HD12	1:q:677:PHE:HE1	1.64	0.61
1:w:357:PRO:HB3	1:y:434:GLN:NE2	2.16	0.61
1:2:375:ILE:HD13	1:3:662:PRO:HG3	1.83	0.61
1:J:434:GLN:NE2	1:L:357:PRO:HB3	2.16	0.61
1:O:434:GLN:NE2	1:m:357:PRO:HB3	2.16	0.61
1:R:677:PHE:HE1	1:V:375:ILE:HD12	1.64	0.61
1:S:435:THR:HG21	1:U:519:ARG:NH1	2.16	0.61
1:T:357:PRO:HB3	1:l:434:GLN:NE2	2.16	0.61
1:W:433:ASN:ND2	1:Y:399:TYR:OH	2.34	0.61
1:b:375:ILE:HD12	1:o:677:PHE:HE1	1.65	0.61
1:q:375:ILE:HD13	1:y:662:PRO:HG3	1.83	0.61
1:t:434:GLN:NE2	1:u:357:PRO:HB3	2.16	0.61
1:B:357:PRO:HB3	1:L:434:GLN:NE2	2.16	0.60
1:C:357:PRO:HB3	1:M:434:GLN:NE2	2.16	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:R:434:GLN:NE2	1:S:357:PRO:HB3	2.16	0.60
1:V:490:GLN:HB3	1:V:542:MET:SD	2.41	0.60
1:X:519:ARG:NH1	1:e:435:THR:HG21	2.16	0.60
1:f:677:PHE:HE1	1:z:375:ILE:HD12	1.65	0.60
1:p:375:ILE:HD13	1:q:662:PRO:HG3	1.83	0.60
1:u:662:PRO:HG3	1:5:375:ILE:HD13	1.83	0.60
1:5:519:ARG:NH1	1:7:435:THR:HG21	2.16	0.60
1:H:375:ILE:HD13	1:I:662:PRO:HG3	1.83	0.60
1:I:375:ILE:HD13	1:J:662:PRO:HG3	1.83	0.60
1:M:357:PRO:HB3	1:b:434:GLN:NE2	2.16	0.60
1:M:662:PRO:HG3	1:c:375:ILE:HD13	1.83	0.60
1:V:399:TYR:OH	1:X:433:ASN:ND2	2.35	0.60
1:X:662:PRO:HG3	1:f:375:ILE:HD13	1.83	0.60
1:Z:357:PRO:HB3	1:3:434:GLN:NE2	2.16	0.60
1:g:357:PRO:HB3	1:h:434:GLN:NE2	2.16	0.60
1:j:375:ILE:HD13	1:x:662:PRO:HG3	1.84	0.60
1:q:399:TYR:OH	1:s:433:ASN:ND2	2.35	0.60
1:q:434:GLN:NE2	1:r:357:PRO:HB3	2.16	0.60
1:r:435:THR:HG21	1:s:519:ARG:NH1	2.16	0.60
1:z:519:ARG:NH1	1:2:435:THR:HG21	2.16	0.60
1:3:490:GLN:HB3	1:3:542:MET:SD	2.42	0.60
1:5:434:GLN:NE2	1:6:357:PRO:HB3	2.16	0.60
1:6:433:ASN:ND2	1:7:399:TYR:OH	2.35	0.60
1:A:435:THR:HG21	1:G:519:ARG:NH1	2.16	0.60
1:B:662:PRO:HG3	1:C:375:ILE:HD13	1.83	0.60
1:C:434:GLN:NE2	1:b:357:PRO:HB3	2.16	0.60
1:H:519:ARG:NH1	1:Y:435:THR:HG21	2.17	0.60
1:P:490:GLN:HB3	1:P:542:MET:SD	2.42	0.60
1:R:399:TYR:OH	1:U:433:ASN:ND2	2.35	0.60
1:R:490:GLN:HB3	1:R:542:MET:SD	2.42	0.60
1:R:662:PRO:HG3	1:V:375:ILE:HD13	1.83	0.60
1:Z:662:PRO:HG3	1:a:375:ILE:HD13	1.83	0.60
1:a:434:GLN:NE2	1:8:357:PRO:HB3	2.16	0.60
1:a:490:GLN:HB3	1:a:542:MET:SD	2.42	0.60
1:b:375:ILE:HD13	1:o:662:PRO:HG3	1.83	0.60
1:c:435:THR:HG21	1:o:519:ARG:NH1	2.17	0.60
1:c:490:GLN:HB3	1:c:542:MET:SD	2.42	0.60
1:e:490:GLN:HB3	1:e:542:MET:SD	2.42	0.60
1:f:434:GLN:NE2	1:h:357:PRO:HB3	2.16	0.60
1:g:375:ILE:HD13	1:1:662:PRO:HG3	1.83	0.60
1:j:490:GLN:HB3	1:j:542:MET:SD	2.42	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:m:433:ASN:ND2	1:n:399:TYR:OH	2.34	0.60
1:o:375:ILE:HD13	1:7:662:PRO:HG3	1.83	0.60
1:o:490:GLN:HB3	1:o:542:MET:SD	2.42	0.60
1:p:490:GLN:HB3	1:p:542:MET:SD	2.42	0.60
1:q:490:GLN:HB3	1:q:542:MET:SD	2.42	0.60
1:t:490:GLN:HB3	1:t:542:MET:SD	2.42	0.60
1:z:357:PRO:HB3	1:2:434:GLN:NE2	2.16	0.60
1:z:434:GLN:NE2	1:1:357:PRO:HB3	2.16	0.60
1:3:357:PRO:HB3	1:4:434:GLN:NE2	2.16	0.60
1:5:662:PRO:HG3	1:8:375:ILE:HD13	1.83	0.60
1:G:490:GLN:HB3	1:G:542:MET:SD	2.42	0.60
1:J:435:THR:HG21	1:L:519:ARG:NH1	2.16	0.60
1:J:490:GLN:HB3	1:J:542:MET:SD	2.42	0.60
1:K:434:GLN:NE2	1:a:357:PRO:HB3	2.16	0.60
1:M:399:TYR:OH	1:b:433:ASN:ND2	2.35	0.60
1:S:434:GLN:NE2	1:U:357:PRO:HB3	2.16	0.60
1:V:357:PRO:HB3	1:X:434:GLN:NE2	2.16	0.60
1:X:375:ILE:HD13	1:Y:662:PRO:HG3	1.83	0.60
1:Y:490:GLN:HB3	1:Y:542:MET:SD	2.42	0.60
1:f:357:PRO:HB3	1:g:434:GLN:NE2	2.16	0.60
1:i:435:THR:HG21	1:j:519:ARG:NH1	2.17	0.60
1:o:433:ASN:ND2	1:p:399:TYR:OH	2.35	0.60
1:o:435:THR:HG21	1:p:519:ARG:NH1	2.17	0.60
1:r:434:GLN:NE2	1:s:357:PRO:HB3	2.16	0.60
1:v:662:PRO:HG3	1:1:375:ILE:HD13	1.83	0.60
1:2:490:GLN:HB3	1:2:542:MET:SD	2.42	0.60
1:3:375:ILE:HD13	1:8:662:PRO:HG3	1.83	0.60
1:7:490:GLN:HB3	1:7:542:MET:SD	2.42	0.60
1:A:519:ARG:NH1	1:I:435:THR:HG21	2.17	0.60
1:B:435:THR:HG21	1:J:519:ARG:NH1	2.16	0.60
1:D:434:GLN:NE2	1:N:357:PRO:HB3	2.16	0.60
1:H:434:GLN:NE2	1:W:357:PRO:HB3	2.16	0.60
1:H:618:ASP:HB3	1:H:737:ARG:NH2	2.17	0.60
1:M:490:GLN:HB3	1:M:542:MET:SD	2.42	0.60
1:N:434:GLN:NE2	1:P:357:PRO:HB3	2.16	0.60
1:T:433:ASN:ND2	1:d:399:TYR:OH	2.35	0.60
1:X:490:GLN:HB3	1:X:542:MET:SD	2.42	0.60
1:t:519:ARG:NH1	1:v:435:THR:HG21	2.17	0.60
1:A:434:GLN:NE2	1:G:357:PRO:HB3	2.16	0.60
1:B:490:GLN:HB3	1:B:542:MET:SD	2.42	0.60
1:E:490:GLN:HB3	1:E:542:MET:SD	2.41	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:357:PRO:HB3	1:Q:434:GLN:NE2	2.16	0.60
1:G:435:THR:HG21	1:I:519:ARG:NH1	2.16	0.60
1:H:357:PRO:HB3	1:Y:434:GLN:NE2	2.16	0.60
1:H:662:PRO:HG3	1:Z:375:ILE:HD13	1.83	0.60
1:J:375:ILE:HD13	1:a:662:PRO:HG3	1.84	0.60
1:K:490:GLN:HB3	1:K:542:MET:SD	2.42	0.60
1:N:435:THR:HG21	1:P:519:ARG:NH1	2.17	0.60
1:R:618:ASP:HB3	1:R:737:ARG:NH2	2.17	0.60
1:V:519:ARG:NH1	1:X:435:THR:HG21	2.17	0.60
1:f:433:ASN:ND2	1:h:399:TYR:OH	2.35	0.60
1:m:435:THR:HG21	1:n:519:ARG:NH1	2.16	0.60
1:o:618:ASP:HB3	1:o:737:ARG:NH2	2.17	0.60
1:q:618:ASP:HB3	1:q:737:ARG:NH2	2.17	0.60
1:u:375:ILE:HD13	1:2:662:PRO:HG3	1.83	0.60
1:u:435:THR:HG21	1:v:519:ARG:NH1	2.17	0.60
1:u:618:ASP:HB3	1:u:737:ARG:NH2	2.17	0.60
1:z:399:TYR:OH	1:2:433:ASN:ND2	2.35	0.60
1:1:490:GLN:HB3	1:1:542:MET:SD	2.42	0.60
1:4:490:GLN:HB3	1:4:542:MET:SD	2.41	0.60
1:5:357:PRO:HB3	1:7:434:GLN:NE2	2.16	0.60
1:D:435:THR:HG21	1:N:519:ARG:NH1	2.17	0.60
1:E:434:GLN:NE2	1:Q:357:PRO:HB3	2.16	0.60
1:I:618:ASP:HB3	1:I:737:ARG:NH2	2.17	0.60
1:N:433:ASN:ND2	1:P:399:TYR:OH	2.35	0.60
1:O:375:ILE:HD13	1:P:662:PRO:HG3	1.83	0.60
1:O:490:GLN:HB3	1:O:542:MET:SD	2.42	0.60
1:Q:618:ASP:HB3	1:Q:737:ARG:NH2	2.17	0.60
1:S:375:ILE:HD12	1:d:677:PHE:HE1	1.65	0.60
1:X:618:ASP:HB3	1:X:737:ARG:NH2	2.17	0.60
1:Z:519:ARG:NH1	1:3:435:THR:HG21	2.16	0.60
1:Z:618:ASP:HB3	1:Z:737:ARG:NH2	2.17	0.60
1:a:435:THR:HG21	1:8:519:ARG:NH1	2.16	0.60
1:b:490:GLN:HB3	1:b:542:MET:SD	2.42	0.60
1:f:490:GLN:HB3	1:f:542:MET:SD	2.42	0.60
1:h:490:GLN:HB3	1:h:542:MET:SD	2.42	0.60
1:i:357:PRO:HB3	1:k:434:GLN:NE2	2.16	0.60
1:i:433:ASN:ND2	1:j:399:TYR:OH	2.35	0.60
1:i:434:GLN:NE2	1:j:357:PRO:HB3	2.16	0.60
1:i:519:ARG:NH1	1:k:435:THR:HG21	2.17	0.60
1:j:662:PRO:HG3	1:l:375:ILE:HD13	1.83	0.60
1:p:290:TYR:OH	1:p:317:MET:SD	2.56	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:p:662:PRO:HG3	1:6:375:ILE:HD13	1.83	0.60
1:t:357:PRO:HB3	1:v:434:GLN:NE2	2.16	0.60
1:w:434:GLN:NE2	1:x:357:PRO:HB3	2.16	0.60
1:x:434:GLN:NE2	1:y:357:PRO:HB3	2.16	0.60
1:x:618:ASP:HB3	1:x:737:ARG:NH2	2.17	0.60
1:5:618:ASP:HB3	1:5:737:ARG:NH2	2.17	0.60
1:8:618:ASP:HB3	1:8:737:ARG:NH2	2.17	0.60
1:B:519:ARG:NH1	1:L:435:THR:HG21	2.17	0.60
1:J:433:ASN:ND2	1:L:399:TYR:OH	2.35	0.60
1:J:618:ASP:HB3	1:J:737:ARG:NH2	2.17	0.60
1:M:618:ASP:HB3	1:M:737:ARG:NH2	2.17	0.60
1:N:375:ILE:HD12	1:m:677:PHE:HE1	1.66	0.60
1:T:375:ILE:HD13	1:U:662:PRO:HG3	1.83	0.60
1:T:618:ASP:HB3	1:T:737:ARG:NH2	2.17	0.60
1:V:662:PRO:HG3	1:W:375:ILE:HD13	1.83	0.60
1:Z:435:THR:HG21	1:4:519:ARG:NH1	2.17	0.60
1:h:618:ASP:HB3	1:h:737:ARG:NH2	2.17	0.60
1:l:490:GLN:HB3	1:l:542:MET:SD	2.42	0.60
1:o:434:GLN:NE2	1:p:357:PRO:HB3	2.16	0.60
1:u:433:ASN:ND2	1:v:399:TYR:OH	2.35	0.60
1:w:399:TYR:OH	1:y:433:ASN:ND2	2.35	0.60
1:z:435:THR:HG21	1:1:519:ARG:NH1	2.17	0.60
1:1:433:ASN:ND2	1:2:399:TYR:OH	2.35	0.60
1:A:290:TYR:OH	1:A:317:MET:SD	2.56	0.60
1:A:662:PRO:HG3	1:B:375:ILE:HD13	1.84	0.60
1:E:399:TYR:OH	1:F:433:ASN:ND2	2.35	0.60
1:E:519:ARG:NH1	1:F:435:THR:HG21	2.17	0.60
1:F:618:ASP:HB3	1:F:737:ARG:NH2	2.17	0.60
1:K:399:TYR:OH	1:8:433:ASN:ND2	2.35	0.60
1:K:519:ARG:NH1	1:8:435:THR:HG21	2.17	0.60
1:L:490:GLN:HB3	1:L:542:MET:SD	2.42	0.60
1:S:433:ASN:ND2	1:U:399:TYR:OH	2.35	0.60
1:d:490:GLN:HB3	1:d:542:MET:SD	2.42	0.60
1:m:618:ASP:HB3	1:m:737:ARG:NH2	2.17	0.60
1:v:490:GLN:HB3	1:v:542:MET:SD	2.42	0.60
1:w:490:GLN:HB3	1:w:542:MET:SD	2.42	0.60
1:w:519:ARG:NH1	1:y:435:THR:HG21	2.17	0.60
1:1:434:GLN:NE2	1:2:357:PRO:HB3	2.16	0.60
1:2:618:ASP:HB3	1:2:737:ARG:NH2	2.17	0.60
1:3:399:TYR:OH	1:4:433:ASN:ND2	2.35	0.60
1:A:490:GLN:HB3	1:A:542:MET:SD	2.42	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:433:ASN:ND2	1:J:399:TYR:OH	2.35	0.60
1:C:433:ASN:ND2	1:b:399:TYR:OH	2.34	0.60
1:C:435:THR:HG21	1:b:519:ARG:NH1	2.17	0.60
1:F:399:TYR:OH	1:Q:433:ASN:ND2	2.35	0.60
1:K:357:PRO:HB3	1:8:434:GLN:NE2	2.16	0.60
1:O:519:ARG:NH1	1:n:435:THR:HG21	2.16	0.60
1:Q:375:ILE:HD13	1:S:662:PRO:HG3	1.83	0.60
1:V:618:ASP:HB3	1:V:737:ARG:NH2	2.17	0.60
1:Z:433:ASN:ND2	1:4:399:TYR:OH	2.35	0.60
1:g:490:GLN:HB3	1:g:542:MET:SD	2.42	0.60
1:j:433:ASN:ND2	1:k:399:TYR:OH	2.34	0.60
1:n:677:PHE:HE1	1:r:375:ILE:HD12	1.65	0.60
1:p:618:ASP:HB3	1:p:737:ARG:NH2	2.17	0.60
1:s:490:GLN:HB3	1:s:542:MET:SD	2.42	0.60
1:t:435:THR:HG21	1:u:519:ARG:NH1	2.17	0.60
1:x:512:LYS:HG2	1:x:543:GLN:HG3	1.84	0.60
1:y:347:GLN:HE21	1:y:657:LYS:HD3	1.67	0.60
1:y:490:GLN:HB3	1:y:542:MET:SD	2.42	0.60
1:y:618:ASP:HB3	1:y:737:ARG:NH2	2.17	0.60
1:z:490:GLN:HB3	1:z:542:MET:SD	2.42	0.60
1:1:435:THR:HG21	1:2:519:ARG:NH1	2.17	0.60
1:A:433:ASN:ND2	1:G:399:TYR:OH	2.35	0.59
1:B:434:GLN:NE2	1:J:357:PRO:HB3	2.16	0.59
1:D:519:ARG:NH1	1:P:435:THR:HG21	2.17	0.59
1:E:347:GLN:HE21	1:E:657:LYS:HD3	1.67	0.59
1:F:347:GLN:HE21	1:F:657:LYS:HD3	1.67	0.59
1:H:435:THR:HG21	1:W:519:ARG:NH1	2.17	0.59
1:H:490:GLN:HB3	1:H:542:MET:SD	2.42	0.59
1:K:347:GLN:HE21	1:K:657:LYS:HD3	1.67	0.59
1:K:433:ASN:ND2	1:a:399:TYR:OH	2.35	0.59
1:O:347:GLN:HE21	1:O:657:LYS:HD3	1.67	0.59
1:Q:512:LYS:HG2	1:Q:543:GLN:HG3	1.84	0.59
1:R:433:ASN:ND2	1:S:399:TYR:OH	2.35	0.59
1:T:435:THR:HG21	1:d:519:ARG:NH1	2.17	0.59
1:Z:512:LYS:HG2	1:Z:543:GLN:HG3	1.84	0.59
1:a:618:ASP:HB3	1:a:737:ARG:NH2	2.17	0.59
1:b:347:GLN:HE21	1:b:657:LYS:HD3	1.67	0.59
1:f:519:ARG:NH1	1:g:435:THR:HG21	2.17	0.59
1:k:347:GLN:HE21	1:k:657:LYS:HD3	1.67	0.59
1:l:347:GLN:HE21	1:l:657:LYS:HD3	1.67	0.59
1:n:490:GLN:HB3	1:n:542:MET:SD	2.42	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:q:433:ASN:ND2	1:r:399:TYR:OH	2.35	0.59
1:r:433:ASN:ND2	1:s:399:TYR:OH	2.35	0.59
1:w:347:GLN:HE21	1:w:657:LYS:HD3	1.67	0.59
1:1:618:ASP:HB3	1:1:737:ARG:NH2	2.17	0.59
1:4:347:GLN:HE21	1:4:657:LYS:HD3	1.67	0.59
1:5:490:GLN:HB3	1:5:542:MET:SD	2.42	0.59
1:B:618:ASP:HB3	1:B:737:ARG:NH2	2.17	0.59
1:C:399:TYR:OH	1:M:433:ASN:ND2	2.35	0.59
1:C:490:GLN:HB3	1:C:542:MET:SD	2.42	0.59
1:D:347:GLN:HE21	1:D:657:LYS:HD3	1.67	0.59
1:D:433:ASN:ND2	1:N:399:TYR:OH	2.34	0.59
1:F:490:GLN:HB3	1:F:542:MET:SD	2.42	0.59
1:F:519:ARG:NH1	1:Q:435:THR:HG21	2.17	0.59
1:L:375:ILE:HD13	1:b:662:PRO:HG3	1.83	0.59
1:O:618:ASP:HB3	1:O:737:ARG:NH2	2.17	0.59
1:U:490:GLN:HB3	1:U:542:MET:SD	2.42	0.59
1:a:433:ASN:ND2	1:8:399:TYR:OH	2.35	0.59
1:c:662:PRO:HG3	1:s:375:ILE:HD13	1.83	0.59
1:d:434:GLN:NE2	1:l:357:PRO:HB3	2.16	0.59
1:g:662:PRO:HG3	1:k:375:ILE:HD13	1.83	0.59
1:j:435:THR:HG21	1:k:519:ARG:NH1	2.17	0.59
1:r:662:PRO:HG3	1:x:375:ILE:HD13	1.83	0.59
1:t:399:TYR:OH	1:v:433:ASN:ND2	2.35	0.59
1:x:433:ASN:ND2	1:y:399:TYR:OH	2.35	0.59
1:z:618:ASP:HB3	1:z:737:ARG:NH2	2.17	0.59
1:3:512:LYS:HG2	1:3:543:GLN:HG3	1.84	0.59
1:3:618:ASP:HB3	1:3:737:ARG:NH2	2.17	0.59
1:A:399:TYR:OH	1:I:433:ASN:ND2	2.35	0.59
1:D:399:TYR:OH	1:P:433:ASN:ND2	2.35	0.59
1:L:618:ASP:HB3	1:L:737:ARG:NH2	2.17	0.59
1:O:357:PRO:HB3	1:n:434:GLN:NE2	2.16	0.59
1:R:435:THR:HG21	1:S:519:ARG:NH1	2.17	0.59
1:W:490:GLN:HB3	1:W:542:MET:SD	2.42	0.59
1:Z:399:TYR:OH	1:3:433:ASN:ND2	2.35	0.59
1:Z:434:GLN:NE2	1:4:357:PRO:HB3	2.16	0.59
1:a:512:LYS:HG2	1:a:543:GLN:HG3	1.84	0.59
1:c:433:ASN:ND2	1:o:399:TYR:OH	2.35	0.59
1:d:618:ASP:HB3	1:d:737:ARG:NH2	2.17	0.59
1:f:347:GLN:HE21	1:f:657:LYS:HD3	1.67	0.59
1:f:399:TYR:OH	1:g:433:ASN:ND2	2.35	0.59
1:f:618:ASP:HB3	1:f:737:ARG:NH2	2.17	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:g:399:TYR:OH	1:h:433:ASN:ND2	2.35	0.59
1:i:399:TYR:OH	1:k:433:ASN:ND2	2.35	0.59
1:q:435:THR:HG21	1:r:519:ARG:NH1	2.17	0.59
1:t:375:ILE:HD13	1:6:662:PRO:HG3	1.83	0.59
1:u:434:GLN:NE2	1:v:357:PRO:HB3	2.16	0.59
1:w:435:THR:HG21	1:x:519:ARG:NH1	2.17	0.59
1:x:435:THR:HG21	1:y:519:ARG:NH1	2.17	0.59
1:5:435:THR:HG21	1:6:519:ARG:NH1	2.17	0.59
1:7:347:GLN:HE21	1:7:657:LYS:HD3	1.67	0.59
1:8:512:LYS:HG2	1:8:543:GLN:HG3	1.84	0.59
1:A:347:GLN:HE21	1:A:657:LYS:HD3	1.67	0.59
1:A:357:PRO:HB3	1:I:434:GLN:NE2	2.16	0.59
1:D:662:PRO:HG3	1:E:375:ILE:HD13	1.83	0.59
1:G:433:ASN:ND2	1:I:399:TYR:OH	2.35	0.59
1:K:662:PRO:HG3	1:7:375:ILE:HD13	1.83	0.59
1:O:662:PRO:HG3	1:d:375:ILE:HD13	1.83	0.59
1:P:512:LYS:HG2	1:P:543:GLN:HG3	1.84	0.59
1:S:375:ILE:HD13	1:d:662:PRO:HG3	1.83	0.59
1:U:618:ASP:HB3	1:U:737:ARG:NH2	2.17	0.59
1:V:290:TYR:OH	1:V:317:MET:SD	2.56	0.59
1:X:347:GLN:HE21	1:X:657:LYS:HD3	1.67	0.59
1:Y:375:ILE:HD13	1:4:662:PRO:HG3	1.83	0.59
1:b:618:ASP:HB3	1:b:737:ARG:NH2	2.17	0.59
1:c:399:TYR:OH	1:p:433:ASN:ND2	2.34	0.59
1:j:512:LYS:HG2	1:j:543:GLN:HG3	1.84	0.59
1:n:618:ASP:HB3	1:n:737:ARG:NH2	2.17	0.59
1:u:347:GLN:HE21	1:u:657:LYS:HD3	1.67	0.59
1:z:433:ASN:ND2	1:1:399:TYR:OH	2.35	0.59
1:6:490:GLN:HB3	1:6:542:MET:SD	2.42	0.59
1:B:399:TYR:OH	1:L:433:ASN:ND2	2.34	0.59
1:E:435:THR:HG21	1:Q:519:ARG:NH1	2.17	0.59
1:R:519:ARG:NH1	1:U:435:THR:HG21	2.17	0.59
1:V:433:ASN:ND2	1:e:399:TYR:OH	2.35	0.59
1:X:399:TYR:OH	1:e:433:ASN:ND2	2.35	0.59
1:Y:347:GLN:HE21	1:Y:657:LYS:HD3	1.67	0.59
1:d:435:THR:HG21	1:l:519:ARG:NH1	2.17	0.59
1:l:618:ASP:HB3	1:l:737:ARG:NH2	2.17	0.59
1:m:490:GLN:HB3	1:m:542:MET:SD	2.42	0.59
1:o:347:GLN:HE21	1:o:657:LYS:HD3	1.67	0.59
1:s:347:GLN:HE21	1:s:657:LYS:HD3	1.67	0.59
1:t:433:ASN:ND2	1:u:399:TYR:OH	2.35	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:v:375:ILE:HD13	1:w:662:PRO:HG3	1.83	0.59
1:w:618:ASP:HB3	1:w:737:ARG:NH2	2.17	0.59
1:5:399:TYR:OH	1:7:433:ASN:ND2	2.35	0.59
1:6:347:GLN:HE21	1:6:657:LYS:HD3	1.67	0.59
1:8:490:GLN:HB3	1:8:542:MET:SD	2.42	0.59
1:A:375:ILE:HD13	1:E:662:PRO:HG3	1.83	0.59
1:A:618:ASP:HB3	1:A:737:ARG:NH2	2.17	0.59
1:C:662:PRO:HG3	1:D:375:ILE:HD13	1.83	0.59
1:D:512:LYS:HG2	1:D:543:GLN:HG3	1.84	0.59
1:L:512:LYS:HG2	1:L:543:GLN:HG3	1.84	0.59
1:S:512:LYS:HG2	1:S:543:GLN:HG3	1.84	0.59
1:T:490:GLN:HB3	1:T:542:MET:SD	2.42	0.59
1:U:347:GLN:HE21	1:U:657:LYS:HD3	1.67	0.59
1:U:375:ILE:HD13	1:e:662:PRO:HG3	1.83	0.59
1:V:512:LYS:HG2	1:V:543:GLN:HG3	1.84	0.59
1:f:662:PRO:HG3	1:z:375:ILE:HD13	1.83	0.59
1:k:512:LYS:HG2	1:k:543:GLN:HG3	1.84	0.59
1:l:662:PRO:HG3	1:n:375:ILE:HD13	1.83	0.59
1:q:519:ARG:NH1	1:s:435:THR:HG21	2.17	0.59
1:r:512:LYS:HG2	1:r:543:GLN:HG3	1.84	0.59
1:s:618:ASP:HB3	1:s:737:ARG:NH2	2.17	0.59
1:t:618:ASP:HB3	1:t:737:ARG:NH2	2.17	0.59
1:v:347:GLN:HE21	1:v:657:LYS:HD3	1.67	0.59
1:v:618:ASP:HB3	1:v:737:ARG:NH2	2.17	0.59
1:w:433:ASN:ND2	1:x:399:TYR:OH	2.35	0.59
1:z:512:LYS:HG2	1:z:543:GLN:HG3	1.84	0.59
1:5:433:ASN:ND2	1:6:399:TYR:OH	2.34	0.59
1:7:618:ASP:HB3	1:7:737:ARG:NH2	2.17	0.59
1:E:618:ASP:HB3	1:E:737:ARG:NH2	2.17	0.59
1:H:347:GLN:HE21	1:H:657:LYS:HD3	1.67	0.59
1:I:347:GLN:HE21	1:I:657:LYS:HD3	1.67	0.59
1:K:512:LYS:HG2	1:K:543:GLN:HG3	1.84	0.59
1:O:399:TYR:OH	1:n:433:ASN:ND2	2.35	0.59
1:S:490:GLN:HB3	1:S:542:MET:SD	2.42	0.59
1:T:399:TYR:OH	1:l:433:ASN:ND2	2.35	0.59
1:T:512:LYS:HG2	1:T:543:GLN:HG3	1.84	0.59
1:W:347:GLN:HE21	1:W:657:LYS:HD3	1.67	0.59
1:Y:618:ASP:HB3	1:Y:737:ARG:NH2	2.17	0.59
1:Z:490:GLN:HB3	1:Z:542:MET:SD	2.42	0.59
1:d:433:ASN:ND2	1:l:399:TYR:OH	2.35	0.59
1:k:618:ASP:HB3	1:k:737:ARG:NH2	2.17	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:k:662:PRO:HG3	1:w:375:ILE:HD13	1.83	0.59
1:m:347:GLN:HE21	1:m:657:LYS:HD3	1.67	0.59
1:n:662:PRO:HG3	1:r:375:ILE:HD13	1.83	0.59
1:p:512:LYS:HG2	1:p:543:GLN:HG3	1.84	0.59
1:r:490:GLN:HB3	1:r:542:MET:SD	2.42	0.59
1:r:618:ASP:HB3	1:r:737:ARG:NH2	2.17	0.59
1:w:512:LYS:HG2	1:w:543:GLN:HG3	1.84	0.59
1:4:512:LYS:HG2	1:4:543:GLN:HG3	1.84	0.59
1:D:490:GLN:HB3	1:D:542:MET:SD	2.42	0.59
1:H:399:TYR:OH	1:Y:433:ASN:ND2	2.35	0.59
1:I:490:GLN:HB3	1:I:542:MET:SD	2.42	0.59
1:Q:490:GLN:HB3	1:Q:542:MET:SD	2.42	0.59
1:T:347:GLN:HE21	1:T:657:LYS:HD3	1.67	0.59
1:Z:347:GLN:HE21	1:Z:657:LYS:HD3	1.67	0.59
1:c:519:ARG:NH1	1:p:435:THR:HG21	2.17	0.59
1:d:512:LYS:HG2	1:d:543:GLN:HG3	1.84	0.59
1:i:490:GLN:HB3	1:i:542:MET:SD	2.42	0.59
1:m:512:LYS:HG2	1:m:543:GLN:HG3	1.85	0.59
1:u:490:GLN:HB3	1:u:542:MET:SD	2.42	0.59
1:x:490:GLN:HB3	1:x:542:MET:SD	2.42	0.59
1:z:662:PRO:HG3	1:4:375:ILE:HD13	1.83	0.59
1:A:359:VAL:H	1:A:653:GLN:NE2	2.01	0.59
1:C:519:ARG:NH1	1:M:435:THR:HG21	2.17	0.59
1:D:618:ASP:HB3	1:D:737:ARG:NH2	2.17	0.59
1:E:433:ASN:ND2	1:Q:399:TYR:OH	2.35	0.59
1:E:512:LYS:HG2	1:E:543:GLN:HG3	1.84	0.59
1:G:618:ASP:HB3	1:G:737:ARG:NH2	2.17	0.59
1:N:490:GLN:HB3	1:N:542:MET:SD	2.42	0.59
1:S:618:ASP:HB3	1:S:737:ARG:NH2	2.17	0.59
1:W:435:THR:HG21	1:Y:519:ARG:NH1	2.17	0.59
1:d:359:VAL:H	1:d:653:GLN:NE2	2.01	0.59
1:k:490:GLN:HB3	1:k:542:MET:SD	2.42	0.59
1:m:375:ILE:HD13	1:s:662:PRO:HG3	1.84	0.59
1:n:359:VAL:H	1:n:653:GLN:NE2	2.01	0.59
1:n:512:LYS:HG2	1:n:543:GLN:HG3	1.84	0.59
1:o:427:HIS:CE1	1:o:618:ASP:HA	2.38	0.59
1:q:357:PRO:HB3	1:s:434:GLN:NE2	2.16	0.59
1:u:290:TYR:OH	1:u:317:MET:SD	2.56	0.59
1:v:359:VAL:H	1:v:653:GLN:NE2	2.01	0.59
1:y:512:LYS:HG2	1:y:543:GLN:HG3	1.84	0.59
1:5:359:VAL:H	1:5:653:GLN:NE2	2.01	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:6:435:THR:HG21	1:7:519:ARG:NH1	2.17	0.59
1:8:347:GLN:HE21	1:8:657:LYS:HD3	1.67	0.59
1:H:359:VAL:H	1:H:653:GLN:NE2	2.01	0.59
1:H:427:HIS:CE1	1:H:618:ASP:HA	2.38	0.59
1:H:433:ASN:ND2	1:W:399:TYR:OH	2.35	0.59
1:J:512:LYS:HG2	1:J:543:GLN:HG3	1.84	0.59
1:M:347:GLN:HE21	1:M:657:LYS:HD3	1.67	0.59
1:P:427:HIS:CE1	1:P:618:ASP:HA	2.38	0.59
1:R:357:PRO:HB3	1:U:434:GLN:NE2	2.16	0.59
1:V:435:THR:HG21	1:e:519:ARG:NH1	2.17	0.59
1:X:427:HIS:CE1	1:X:618:ASP:HA	2.38	0.59
1:X:512:LYS:HG2	1:X:543:GLN:HG3	1.84	0.59
1:a:427:HIS:CE1	1:a:618:ASP:HA	2.38	0.59
1:g:519:ARG:NH1	1:h:435:THR:HG21	2.17	0.59
1:h:347:GLN:HE21	1:h:657:LYS:HD3	1.67	0.59
1:j:427:HIS:CE1	1:j:618:ASP:HA	2.38	0.59
1:3:427:HIS:CE1	1:3:618:ASP:HA	2.38	0.59
1:G:375:ILE:HD13	1:W:662:PRO:HG3	1.84	0.58
1:J:347:GLN:HE21	1:J:657:LYS:HD3	1.67	0.58
1:M:427:HIS:CE1	1:M:618:ASP:HA	2.38	0.58
1:M:512:LYS:HG2	1:M:543:GLN:HG3	1.84	0.58
1:O:433:ASN:ND2	1:m:399:TYR:OH	2.35	0.58
1:O:512:LYS:HG2	1:O:543:GLN:HG3	1.84	0.58
1:R:347:GLN:HE21	1:R:657:LYS:HD3	1.67	0.58
1:R:512:LYS:HG2	1:R:543:GLN:HG3	1.84	0.58
1:T:519:ARG:NH1	1:l:435:THR:HG21	2.17	0.58
1:b:427:HIS:CE1	1:b:618:ASP:HA	2.38	0.58
1:c:512:LYS:HG2	1:c:543:GLN:HG3	1.84	0.58
1:f:427:HIS:CE1	1:f:618:ASP:HA	2.38	0.58
1:g:427:HIS:CE1	1:g:618:ASP:HA	2.38	0.58
1:h:427:HIS:CE1	1:h:618:ASP:HA	2.38	0.58
1:h:512:LYS:HG2	1:h:543:GLN:HG3	1.84	0.58
1:l:359:VAL:H	1:l:653:GLN:NE2	2.01	0.58
1:o:512:LYS:HG2	1:o:543:GLN:HG3	1.84	0.58
1:2:512:LYS:HG2	1:2:543:GLN:HG3	1.85	0.58
1:5:347:GLN:HE21	1:5:657:LYS:HD3	1.67	0.58
1:5:427:HIS:CE1	1:5:618:ASP:HA	2.38	0.58
1:F:512:LYS:HG2	1:F:543:GLN:HG3	1.85	0.58
1:K:375:ILE:HD13	1:L:662:PRO:HG3	1.84	0.58
1:K:618:ASP:HB3	1:K:737:ARG:NH2	2.17	0.58
1:L:427:HIS:CE1	1:L:618:ASP:HA	2.38	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Q:347:GLN:HE21	1:Q:657:LYS:HD3	1.67	0.58
1:U:427:HIS:CE1	1:U:618:ASP:HA	2.38	0.58
1:c:347:GLN:HE21	1:c:657:LYS:HD3	1.67	0.58
1:e:347:GLN:HE21	1:e:657:LYS:HD3	1.67	0.58
1:e:512:LYS:HG2	1:e:543:GLN:HG3	1.84	0.58
1:i:618:ASP:HB3	1:i:737:ARG:NH2	2.17	0.58
1:l:512:LYS:HG2	1:l:543:GLN:HG3	1.84	0.58
1:s:427:HIS:CE1	1:s:618:ASP:HA	2.38	0.58
1:z:427:HIS:CE1	1:z:618:ASP:HA	2.38	0.58
1:1:347:GLN:HE21	1:1:657:LYS:HD3	1.67	0.58
1:B:347:GLN:HE21	1:B:657:LYS:HD3	1.67	0.58
1:C:427:HIS:CE1	1:C:618:ASP:HA	2.38	0.58
1:C:512:LYS:HG2	1:C:543:GLN:HG3	1.84	0.58
1:C:618:ASP:HB3	1:C:737:ARG:NH2	2.17	0.58
1:K:435:THR:HG21	1:a:519:ARG:NH1	2.17	0.58
1:O:359:VAL:H	1:O:653:GLN:NE2	2.01	0.58
1:O:435:THR:HG21	1:m:519:ARG:NH1	2.17	0.58
1:T:662:PRO:HG3	1:i:375:ILE:HD13	1.84	0.58
1:V:359:VAL:H	1:V:653:GLN:NE2	2.01	0.58
1:Z:359:VAL:H	1:Z:653:GLN:NE2	2.01	0.58
1:p:359:VAL:H	1:p:653:GLN:NE2	2.01	0.58
1:q:347:GLN:HE21	1:q:657:LYS:HD3	1.67	0.58
1:t:359:VAL:H	1:t:653:GLN:NE2	2.01	0.58
1:2:347:GLN:HE21	1:2:657:LYS:HD3	1.67	0.58
1:4:618:ASP:HB3	1:4:737:ARG:NH2	2.17	0.58
1:6:618:ASP:HB3	1:6:737:ARG:NH2	2.17	0.58
1:B:427:HIS:CE1	1:B:618:ASP:HA	2.38	0.58
1:G:359:VAL:H	1:G:653:GLN:NE2	2.01	0.58
1:L:347:GLN:HE21	1:L:657:LYS:HD3	1.67	0.58
1:N:618:ASP:HB3	1:N:737:ARG:NH2	2.17	0.58
1:W:618:ASP:HB3	1:W:737:ARG:NH2	2.17	0.58
1:f:435:THR:HG21	1:h:519:ARG:NH1	2.17	0.58
1:g:618:ASP:HB3	1:g:737:ARG:NH2	2.17	0.58
1:u:512:LYS:HG2	1:u:543:GLN:HG3	1.84	0.58
1:x:347:GLN:HE21	1:x:657:LYS:HD3	1.67	0.58
1:3:519:ARG:NH1	1:4:435:THR:HG21	2.17	0.58
1:8:359:VAL:H	1:8:653:GLN:NE2	2.01	0.58
1:A:427:HIS:CE1	1:A:618:ASP:HA	2.38	0.58
1:G:512:LYS:HG2	1:G:543:GLN:HG3	1.84	0.58
1:I:427:HIS:CE1	1:I:618:ASP:HA	2.38	0.58
1:I:512:LYS:HG2	1:I:543:GLN:HG3	1.84	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:519:ARG:NH1	1:b:435:THR:HG21	2.17	0.58
1:Y:427:HIS:CE1	1:Y:618:ASP:HA	2.38	0.58
1:d:347:GLN:HE21	1:d:657:LYS:HD3	1.67	0.58
1:e:618:ASP:HB3	1:e:737:ARG:NH2	2.17	0.58
1:g:512:LYS:HG2	1:g:543:GLN:HG3	1.84	0.58
1:j:618:ASP:HB3	1:j:737:ARG:NH2	2.17	0.58
1:n:347:GLN:HE21	1:n:657:LYS:HD3	1.67	0.58
1:q:512:LYS:HG2	1:q:543:GLN:HG3	1.85	0.58
1:w:359:VAL:H	1:w:653:GLN:NE2	2.01	0.58
1:1:427:HIS:CE1	1:1:618:ASP:HA	2.38	0.58
1:6:512:LYS:HG2	1:6:543:GLN:HG3	1.84	0.58
1:E:359:VAL:H	1:E:653:GLN:NE2	2.01	0.58
1:J:427:HIS:CE1	1:J:618:ASP:HA	2.38	0.58
1:W:512:LYS:HG2	1:W:543:GLN:HG3	1.84	0.58
1:X:290:TYR:OH	1:X:317:MET:SD	2.56	0.58
1:Y:512:LYS:HG2	1:Y:543:GLN:HG3	1.84	0.58
1:c:618:ASP:HB3	1:c:737:ARG:NH2	2.17	0.58
1:e:427:HIS:CE1	1:e:618:ASP:HA	2.38	0.58
1:p:347:GLN:HE21	1:p:657:LYS:HD3	1.67	0.58
1:t:512:LYS:HG2	1:t:543:GLN:HG3	1.84	0.58
1:u:427:HIS:CE1	1:u:618:ASP:HA	2.38	0.58
1:v:427:HIS:CE1	1:v:618:ASP:HA	2.38	0.58
1:x:427:HIS:CE1	1:x:618:ASP:HA	2.38	0.58
1:z:347:GLN:HE21	1:z:657:LYS:HD3	1.67	0.58
1:4:427:HIS:CE1	1:4:618:ASP:HA	2.38	0.58
1:C:347:GLN:HE21	1:C:657:LYS:HD3	1.67	0.58
1:E:427:HIS:CE1	1:E:618:ASP:HA	2.38	0.58
1:G:347:GLN:HE21	1:G:657:LYS:HD3	1.67	0.58
1:H:512:LYS:HG2	1:H:543:GLN:HG3	1.84	0.58
1:K:427:HIS:CE1	1:K:618:ASP:HA	2.38	0.58
1:P:618:ASP:HB3	1:P:737:ARG:NH2	2.17	0.58
1:Q:427:HIS:CE1	1:Q:618:ASP:HA	2.38	0.58
1:U:512:LYS:HG2	1:U:543:GLN:HG3	1.84	0.58
1:V:347:GLN:HE21	1:V:657:LYS:HD3	1.67	0.58
1:Y:359:VAL:H	1:Y:653:GLN:NE2	2.01	0.58
1:s:512:LYS:HG2	1:s:543:GLN:HG3	1.84	0.58
1:u:359:VAL:H	1:u:653:GLN:NE2	2.01	0.58
1:7:427:HIS:CE1	1:7:618:ASP:HA	2.38	0.58
1:7:512:LYS:HG2	1:7:543:GLN:HG3	1.84	0.58
1:I:359:VAL:H	1:I:653:GLN:NE2	2.01	0.58
1:N:347:GLN:HE21	1:N:657:LYS:HD3	1.67	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:S:427:HIS:CE1	1:S:618:ASP:HA	2.38	0.58
1:T:427:HIS:CE1	1:T:618:ASP:HA	2.38	0.58
1:Z:427:HIS:CE1	1:Z:618:ASP:HA	2.38	0.58
1:c:427:HIS:CE1	1:c:618:ASP:HA	2.38	0.58
1:f:512:LYS:HG2	1:f:543:GLN:HG3	1.84	0.58
1:j:359:VAL:H	1:j:653:GLN:NE2	2.01	0.58
1:r:427:HIS:CE1	1:r:618:ASP:HA	2.38	0.58
1:t:347:GLN:HE21	1:t:657:LYS:HD3	1.67	0.58
1:w:427:HIS:CE1	1:w:618:ASP:HA	2.38	0.58
1:2:427:HIS:CE1	1:2:618:ASP:HA	2.38	0.58
1:5:512:LYS:HG2	1:5:543:GLN:HG3	1.84	0.58
1:7:359:VAL:H	1:7:653:GLN:NE2	2.01	0.58
1:N:512:LYS:HG2	1:N:543:GLN:HG3	1.84	0.58
1:P:359:VAL:H	1:P:653:GLN:NE2	2.01	0.58
1:W:427:HIS:CE1	1:W:618:ASP:HA	2.38	0.58
1:c:359:VAL:H	1:c:653:GLN:NE2	2.01	0.58
1:d:427:HIS:CE1	1:d:618:ASP:HA	2.38	0.58
1:g:347:GLN:HE21	1:g:657:LYS:HD3	1.67	0.58
1:i:347:GLN:HE21	1:i:657:LYS:HD3	1.67	0.58
1:i:512:LYS:HG2	1:i:543:GLN:HG3	1.84	0.58
1:j:347:GLN:HE21	1:j:657:LYS:HD3	1.67	0.58
1:m:427:HIS:CE1	1:m:618:ASP:HA	2.38	0.58
1:v:512:LYS:HG2	1:v:543:GLN:HG3	1.84	0.58
1:y:427:HIS:CE1	1:y:618:ASP:HA	2.38	0.58
1:8:427:HIS:CE1	1:8:618:ASP:HA	2.38	0.58
1:N:375:ILE:HD13	1:m:662:PRO:HG3	1.85	0.58
1:S:359:VAL:H	1:S:653:GLN:NE2	2.01	0.58
1:b:512:LYS:HG2	1:b:543:GLN:HG3	1.85	0.58
1:e:359:VAL:H	1:e:653:GLN:NE2	2.01	0.58
1:n:427:HIS:CE1	1:n:618:ASP:HA	2.38	0.58
1:6:427:HIS:CE1	1:6:618:ASP:HA	2.38	0.58
1:D:427:HIS:CE1	1:D:618:ASP:HA	2.38	0.57
1:F:427:HIS:CE1	1:F:618:ASP:HA	2.38	0.57
1:x:359:VAL:H	1:x:653:GLN:NE2	2.01	0.57
1:3:347:GLN:HE21	1:3:657:LYS:HD3	1.67	0.57
1:A:512:LYS:HG2	1:A:543:GLN:HG3	1.84	0.57
1:W:489:ASP:OD2	1:W:544:ASN:ND2	2.38	0.57
1:a:359:VAL:H	1:a:653:GLN:NE2	2.01	0.57
1:e:489:ASP:OD2	1:e:544:ASN:ND2	2.38	0.57
1:i:427:HIS:CE1	1:i:618:ASP:HA	2.38	0.57
1:k:427:HIS:CE1	1:k:618:ASP:HA	2.38	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:n:489:ASP:OD2	1:n:544:ASN:ND2	2.38	0.57
1:r:347:GLN:HE21	1:r:657:LYS:HD3	1.67	0.57
1:1:359:VAL:H	1:1:653:GLN:NE2	2.01	0.57
1:A:489:ASP:OD2	1:A:544:ASN:ND2	2.38	0.57
1:D:489:ASP:OD2	1:D:544:ASN:ND2	2.38	0.57
1:M:489:ASP:OD2	1:M:544:ASN:ND2	2.38	0.57
1:N:318:ARG:NH2	1:N:689:GLU:OE1	2.38	0.57
1:P:347:GLN:HE21	1:P:657:LYS:HD3	1.67	0.57
1:Q:359:VAL:H	1:Q:653:GLN:NE2	2.01	0.57
1:a:347:GLN:HE21	1:a:657:LYS:HD3	1.67	0.57
1:c:489:ASP:OD2	1:c:544:ASN:ND2	2.38	0.57
1:h:489:ASP:OD2	1:h:544:ASN:ND2	2.38	0.57
1:i:318:ARG:NH2	1:i:689:GLU:OE1	2.38	0.57
1:k:489:ASP:OD2	1:k:544:ASN:ND2	2.38	0.57
1:q:359:VAL:H	1:q:653:GLN:NE2	2.01	0.57
1:r:359:VAL:H	1:r:653:GLN:NE2	2.01	0.57
1:v:489:ASP:OD2	1:v:544:ASN:ND2	2.38	0.57
1:6:489:ASP:OD2	1:6:544:ASN:ND2	2.38	0.57
1:B:359:VAL:H	1:B:653:GLN:NE2	2.01	0.57
1:B:512:LYS:HG2	1:B:543:GLN:HG3	1.84	0.57
1:N:427:HIS:CE1	1:N:618:ASP:HA	2.38	0.57
1:P:523:MET:HE2	1:P:527:PRO:HD3	1.87	0.57
1:R:359:VAL:H	1:R:653:GLN:NE2	2.01	0.57
1:T:489:ASP:OD2	1:T:544:ASN:ND2	2.38	0.57
1:U:489:ASP:OD2	1:U:544:ASN:ND2	2.38	0.57
1:V:427:HIS:CE1	1:V:618:ASP:HA	2.38	0.57
1:a:489:ASP:OD2	1:a:544:ASN:ND2	2.38	0.57
1:d:489:ASP:OD2	1:d:544:ASN:ND2	2.38	0.57
1:m:489:ASP:OD2	1:m:544:ASN:ND2	2.38	0.57
1:p:427:HIS:CE1	1:p:618:ASP:HA	2.38	0.57
1:q:427:HIS:CE1	1:q:618:ASP:HA	2.38	0.57
1:s:489:ASP:OD2	1:s:544:ASN:ND2	2.38	0.57
1:t:427:HIS:CE1	1:t:618:ASP:HA	2.38	0.57
1:3:359:VAL:H	1:3:653:GLN:NE2	2.01	0.57
1:B:523:MET:HE2	1:B:527:PRO:HD3	1.87	0.57
1:E:489:ASP:OD2	1:E:544:ASN:ND2	2.38	0.57
1:G:427:HIS:CE1	1:G:618:ASP:HA	2.38	0.57
1:H:290:TYR:OH	1:H:317:MET:SD	2.56	0.57
1:R:427:HIS:CE1	1:R:618:ASP:HA	2.38	0.57
1:R:489:ASP:OD2	1:R:544:ASN:ND2	2.38	0.57
1:S:318:ARG:NH2	1:S:689:GLU:OE1	2.38	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:b:359:VAL:H	1:b:653:GLN:NE2	2.01	0.57
1:r:318:ARG:NH2	1:r:689:GLU:OE1	2.38	0.57
1:w:489:ASP:OD2	1:w:544:ASN:ND2	2.38	0.57
1:3:489:ASP:OD2	1:3:544:ASN:ND2	2.38	0.57
1:5:290:TYR:OH	1:5:317:MET:SD	2.56	0.57
1:B:489:ASP:OD2	1:B:544:ASN:ND2	2.38	0.57
1:F:523:MET:HE2	1:F:527:PRO:HD3	1.87	0.57
1:I:290:TYR:OH	1:I:317:MET:SD	2.56	0.57
1:O:427:HIS:CE1	1:O:618:ASP:HA	2.38	0.57
1:O:489:ASP:OD2	1:O:544:ASN:ND2	2.38	0.57
1:P:318:ARG:NH2	1:P:689:GLU:OE1	2.38	0.57
1:S:347:GLN:HE21	1:S:657:LYS:HD3	1.67	0.57
1:f:318:ARG:NH2	1:f:689:GLU:OE1	2.38	0.57
1:j:523:MET:HE2	1:j:527:PRO:HD3	1.87	0.57
1:k:318:ARG:NH2	1:k:689:GLU:OE1	2.37	0.57
1:q:489:ASP:OD2	1:q:544:ASN:ND2	2.38	0.57
1:v:318:ARG:NH2	1:v:689:GLU:OE1	2.38	0.57
1:w:523:MET:HE2	1:w:527:PRO:HD3	1.87	0.57
1:1:489:ASP:OD2	1:1:544:ASN:ND2	2.38	0.57
1:1:512:LYS:HG2	1:1:543:GLN:HG3	1.84	0.57
1:1:523:MET:HE2	1:1:527:PRO:HD3	1.87	0.57
1:2:523:MET:HE2	1:2:527:PRO:HD3	1.87	0.57
1:A:318:ARG:NH2	1:A:689:GLU:OE1	2.38	0.57
1:A:523:MET:HE2	1:A:527:PRO:HD3	1.87	0.57
1:D:318:ARG:NH2	1:D:689:GLU:OE1	2.38	0.57
1:H:489:ASP:OD2	1:H:544:ASN:ND2	2.38	0.57
1:J:523:MET:HE2	1:J:527:PRO:HD3	1.87	0.57
1:N:359:VAL:H	1:N:653:GLN:NE2	2.01	0.57
1:N:489:ASP:OD2	1:N:544:ASN:ND2	2.38	0.57
1:V:489:ASP:OD2	1:V:544:ASN:ND2	2.38	0.57
1:Z:290:TYR:OH	1:Z:317:MET:SD	2.56	0.57
1:a:318:ARG:NH2	1:a:689:GLU:OE1	2.38	0.57
1:b:318:ARG:NH2	1:b:689:GLU:OE1	2.38	0.57
1:f:359:VAL:H	1:f:653:GLN:NE2	2.01	0.57
1:i:359:VAL:H	1:i:653:GLN:NE2	2.01	0.57
1:i:489:ASP:OD2	1:i:544:ASN:ND2	2.38	0.57
1:j:318:ARG:NH2	1:j:689:GLU:OE1	2.38	0.57
1:l:427:HIS:CE1	1:l:618:ASP:HA	2.38	0.57
1:l:489:ASP:OD2	1:l:544:ASN:ND2	2.38	0.57
1:m:523:MET:HE2	1:m:527:PRO:HD3	1.87	0.57
1:p:489:ASP:OD2	1:p:544:ASN:ND2	2.38	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:y:523:MET:HE2	1:y:527:PRO:HD3	1.87	0.57
1:5:489:ASP:OD2	1:5:544:ASN:ND2	2.38	0.57
1:8:290:TYR:OH	1:8:317:MET:SD	2.56	0.57
1:F:489:ASP:OD2	1:F:544:ASN:ND2	2.38	0.57
1:H:523:MET:HE2	1:H:527:PRO:HD3	1.87	0.57
1:K:359:VAL:H	1:K:653:GLN:NE2	2.01	0.57
1:M:318:ARG:NH2	1:M:689:GLU:OE1	2.38	0.57
1:N:290:TYR:OH	1:N:317:MET:SD	2.56	0.57
1:O:523:MET:HE2	1:O:527:PRO:HD3	1.87	0.57
1:V:523:MET:HE2	1:V:527:PRO:HD3	1.87	0.57
1:X:523:MET:HE2	1:X:527:PRO:HD3	1.87	0.57
1:i:290:TYR:OH	1:i:317:MET:SD	2.56	0.57
1:l:523:MET:HE2	1:l:527:PRO:HD3	1.87	0.57
1:o:523:MET:HE2	1:o:527:PRO:HD3	1.87	0.57
1:r:523:MET:HE2	1:r:527:PRO:HD3	1.87	0.57
1:y:489:ASP:OD2	1:y:544:ASN:ND2	2.38	0.57
1:1:290:TYR:OH	1:1:317:MET:SD	2.56	0.57
1:2:359:VAL:H	1:2:653:GLN:NE2	2.01	0.57
1:3:318:ARG:NH2	1:3:689:GLU:OE1	2.38	0.57
1:4:359:VAL:H	1:4:653:GLN:NE2	2.01	0.57
1:5:523:MET:HE2	1:5:527:PRO:HD3	1.87	0.57
1:7:318:ARG:NH2	1:7:689:GLU:OE1	2.38	0.57
1:8:523:MET:HE2	1:8:527:PRO:HD3	1.87	0.57
1:E:523:MET:HE2	1:E:527:PRO:HD3	1.87	0.57
1:J:359:VAL:H	1:J:653:GLN:NE2	2.01	0.57
1:M:359:VAL:H	1:M:653:GLN:NE2	2.01	0.57
1:P:489:ASP:OD2	1:P:544:ASN:ND2	2.38	0.57
1:Q:489:ASP:OD2	1:Q:544:ASN:ND2	2.38	0.57
1:Q:523:MET:HE2	1:Q:527:PRO:HD3	1.87	0.57
1:T:523:MET:HE2	1:T:527:PRO:HD3	1.87	0.57
1:Z:489:ASP:OD2	1:Z:544:ASN:ND2	2.38	0.57
1:h:318:ARG:NH2	1:h:689:GLU:OE1	2.38	0.57
1:h:359:VAL:H	1:h:653:GLN:NE2	2.01	0.57
1:k:359:VAL:H	1:k:653:GLN:NE2	2.01	0.57
1:p:523:MET:HE2	1:p:527:PRO:HD3	1.87	0.57
1:v:523:MET:HE2	1:v:527:PRO:HD3	1.87	0.57
1:x:489:ASP:OD2	1:x:544:ASN:ND2	2.38	0.57
1:4:523:MET:HE2	1:4:527:PRO:HD3	1.87	0.57
1:D:359:VAL:H	1:D:653:GLN:NE2	2.01	0.57
1:J:489:ASP:OD2	1:J:544:ASN:ND2	2.38	0.57
1:K:523:MET:HE2	1:K:527:PRO:HD3	1.87	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:S:523:MET:HE2	1:S:527:PRO:HD3	1.87	0.57
1:T:359:VAL:H	1:T:653:GLN:NE2	2.01	0.57
1:U:318:ARG:NH2	1:U:689:GLU:OE1	2.38	0.57
1:Y:318:ARG:NH2	1:Y:689:GLU:OE1	2.38	0.57
1:Z:523:MET:HE2	1:Z:527:PRO:HD3	1.87	0.57
1:b:489:ASP:OD2	1:b:544:ASN:ND2	2.38	0.57
1:j:489:ASP:OD2	1:j:544:ASN:ND2	2.38	0.57
1:x:523:MET:HE2	1:x:527:PRO:HD3	1.87	0.57
1:2:489:ASP:OD2	1:2:544:ASN:ND2	2.38	0.57
1:4:489:ASP:OD2	1:4:544:ASN:ND2	2.38	0.57
1:8:489:ASP:OD2	1:8:544:ASN:ND2	2.38	0.57
1:B:290:TYR:OH	1:B:317:MET:SD	2.56	0.56
1:E:318:ARG:NH2	1:E:689:GLU:OE1	2.38	0.56
1:K:489:ASP:OD2	1:K:544:ASN:ND2	2.38	0.56
1:S:489:ASP:OD2	1:S:544:ASN:ND2	2.38	0.56
1:f:489:ASP:OD2	1:f:544:ASN:ND2	2.38	0.56
1:g:359:VAL:H	1:g:653:GLN:NE2	2.01	0.56
1:g:523:MET:HE2	1:g:527:PRO:HD3	1.87	0.56
1:l:318:ARG:NH2	1:l:689:GLU:OE1	2.38	0.56
1:m:359:VAL:H	1:m:653:GLN:NE2	2.01	0.56
1:q:318:ARG:NH2	1:q:689:GLU:OE1	2.38	0.56
1:r:489:ASP:OD2	1:r:544:ASN:ND2	2.38	0.56
1:s:318:ARG:NH2	1:s:689:GLU:OE1	2.38	0.56
1:w:318:ARG:NH2	1:w:689:GLU:OE1	2.38	0.56
1:7:523:MET:HE2	1:7:527:PRO:HD3	1.87	0.56
1:C:359:VAL:H	1:C:653:GLN:NE2	2.01	0.56
1:C:489:ASP:OD2	1:C:544:ASN:ND2	2.38	0.56
1:C:523:MET:HE2	1:C:527:PRO:HD3	1.87	0.56
1:K:318:ARG:NH2	1:K:689:GLU:OE1	2.38	0.56
1:R:318:ARG:NH2	1:R:689:GLU:OE1	2.38	0.56
1:o:359:VAL:H	1:o:653:GLN:NE2	2.01	0.56
1:6:318:ARG:NH2	1:6:689:GLU:OE1	2.38	0.56
1:G:318:ARG:NH2	1:G:689:GLU:OE1	2.38	0.56
1:M:315:LYS:HB2	1:M:691:PHE:HD2	1.71	0.56
1:N:523:MET:HE2	1:N:527:PRO:HD3	1.87	0.56
1:O:318:ARG:NH2	1:O:689:GLU:OE1	2.38	0.56
1:P:315:LYS:HB2	1:P:691:PHE:HD2	1.71	0.56
1:T:507:VAL:HG13	1:T:543:GLN:HE22	1.71	0.56
1:W:318:ARG:NH2	1:W:689:GLU:OE1	2.38	0.56
1:Y:489:ASP:OD2	1:Y:544:ASN:ND2	2.38	0.56
1:Y:507:VAL:HG13	1:Y:543:GLN:HE22	1.71	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Y:523:MET:HE2	1:Y:527:PRO:HD3	1.87	0.56
1:Z:315:LYS:HB2	1:Z:691:PHE:HD2	1.71	0.56
1:a:315:LYS:HB2	1:a:691:PHE:HD2	1.71	0.56
1:d:507:VAL:HG13	1:d:543:GLN:HE22	1.71	0.56
1:g:489:ASP:OD2	1:g:544:ASN:ND2	2.38	0.56
1:i:523:MET:HE2	1:i:527:PRO:HD3	1.87	0.56
1:j:315:LYS:HB2	1:j:691:PHE:HD2	1.71	0.56
1:j:507:VAL:HG13	1:j:543:GLN:HE22	1.71	0.56
1:m:507:VAL:HG13	1:m:543:GLN:HE22	1.71	0.56
1:n:507:VAL:HG13	1:n:543:GLN:HE22	1.71	0.56
1:n:523:MET:HE2	1:n:527:PRO:HD3	1.87	0.56
1:o:318:ARG:NH2	1:o:689:GLU:OE1	2.38	0.56
1:t:318:ARG:NH2	1:t:689:GLU:OE1	2.38	0.56
1:2:290:TYR:OH	1:2:317:MET:SD	2.56	0.56
1:3:315:LYS:HB2	1:3:691:PHE:HD2	1.71	0.56
1:4:315:LYS:HB2	1:4:691:PHE:HD2	1.71	0.56
1:4:318:ARG:NH2	1:4:689:GLU:OE1	2.38	0.56
1:7:489:ASP:OD2	1:7:544:ASN:ND2	2.38	0.56
1:A:315:LYS:HB2	1:A:691:PHE:HD2	1.71	0.56
1:G:489:ASP:OD2	1:G:544:ASN:ND2	2.38	0.56
1:K:315:LYS:HB2	1:K:691:PHE:HD2	1.71	0.56
1:L:318:ARG:NH2	1:L:689:GLU:OE1	2.38	0.56
1:b:315:LYS:HB2	1:b:691:PHE:HD2	1.71	0.56
1:f:315:LYS:HB2	1:f:691:PHE:HD2	1.71	0.56
1:k:507:VAL:HG13	1:k:543:GLN:HE22	1.71	0.56
1:p:318:ARG:NH2	1:p:689:GLU:OE1	2.38	0.56
1:z:318:ARG:NH2	1:z:689:GLU:OE1	2.38	0.56
1:7:507:VAL:HG13	1:7:543:GLN:HE22	1.71	0.56
1:8:315:LYS:HB2	1:8:691:PHE:HD2	1.71	0.56
1:D:507:VAL:HG13	1:D:543:GLN:HE22	1.71	0.56
1:G:507:VAL:HG13	1:G:543:GLN:HE22	1.71	0.56
1:L:523:MET:HE2	1:L:527:PRO:HD3	1.87	0.56
1:N:315:LYS:HB2	1:N:691:PHE:HD2	1.71	0.56
1:P:507:VAL:HG13	1:P:543:GLN:HE22	1.71	0.56
1:W:359:VAL:H	1:W:653:GLN:NE2	2.01	0.56
1:X:318:ARG:NH2	1:X:689:GLU:OE1	2.38	0.56
1:d:523:MET:HE2	1:d:527:PRO:HD3	1.87	0.56
1:g:318:ARG:NH2	1:g:689:GLU:OE1	2.38	0.56
1:h:315:LYS:HB2	1:h:691:PHE:HD2	1.71	0.56
1:i:315:LYS:HB2	1:i:691:PHE:HD2	1.71	0.56
1:q:315:LYS:HB2	1:q:691:PHE:HD2	1.71	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:w:507:VAL:HG13	1:w:543:GLN:HE22	1.71	0.56
1:z:523:MET:HE2	1:z:527:PRO:HD3	1.87	0.56
1:B:318:ARG:NH2	1:B:689:GLU:OE1	2.38	0.56
1:D:523:MET:HE2	1:D:527:PRO:HD3	1.87	0.56
1:E:507:VAL:HG13	1:E:543:GLN:HE22	1.71	0.56
1:L:489:ASP:OD2	1:L:544:ASN:ND2	2.38	0.56
1:Q:318:ARG:NH2	1:Q:689:GLU:OE1	2.38	0.56
1:R:315:LYS:HB2	1:R:691:PHE:HD2	1.71	0.56
1:V:318:ARG:NH2	1:V:689:GLU:OE1	2.38	0.56
1:X:359:VAL:H	1:X:653:GLN:NE2	2.01	0.56
1:X:489:ASP:OD2	1:X:544:ASN:ND2	2.38	0.56
1:Y:315:LYS:HB2	1:Y:691:PHE:HD2	1.71	0.56
1:f:507:VAL:HG13	1:f:543:GLN:HE22	1.71	0.56
1:t:489:ASP:OD2	1:t:544:ASN:ND2	2.38	0.56
1:t:507:VAL:HG13	1:t:543:GLN:HE22	1.71	0.56
1:v:315:LYS:HB2	1:v:691:PHE:HD2	1.71	0.56
1:6:359:VAL:H	1:6:653:GLN:NE2	2.01	0.56
1:C:318:ARG:NH2	1:C:689:GLU:OE1	2.38	0.56
1:I:489:ASP:OD2	1:I:544:ASN:ND2	2.38	0.56
1:W:315:LYS:HB2	1:W:691:PHE:HD2	1.71	0.56
1:b:507:VAL:HG13	1:b:543:GLN:HE22	1.71	0.56
1:g:507:VAL:HG13	1:g:543:GLN:HE22	1.71	0.56
1:l:315:LYS:HB2	1:l:691:PHE:HD2	1.71	0.56
1:l:507:VAL:HG13	1:l:543:GLN:HE22	1.71	0.56
1:o:489:ASP:OD2	1:o:544:ASN:ND2	2.38	0.56
1:y:315:LYS:HB2	1:y:691:PHE:HD2	1.71	0.56
1:z:489:ASP:OD2	1:z:544:ASN:ND2	2.38	0.56
1:2:315:LYS:HB2	1:2:691:PHE:HD2	1.71	0.56
1:6:315:LYS:HB2	1:6:691:PHE:HD2	1.71	0.56
1:7:315:LYS:HB2	1:7:691:PHE:HD2	1.71	0.56
1:F:315:LYS:HB2	1:F:691:PHE:HD2	1.71	0.56
1:H:507:VAL:HG13	1:H:543:GLN:HE22	1.71	0.56
1:J:315:LYS:HB2	1:J:691:PHE:HD2	1.71	0.56
1:O:315:LYS:HB2	1:O:691:PHE:HD2	1.71	0.56
1:O:507:VAL:HG13	1:O:543:GLN:HE22	1.71	0.56
1:U:315:LYS:HB2	1:U:691:PHE:HD2	1.71	0.56
1:k:523:MET:HE2	1:k:527:PRO:HD3	1.87	0.56
1:u:489:ASP:OD2	1:u:544:ASN:ND2	2.38	0.56
1:x:318:ARG:NH2	1:x:689:GLU:OE1	2.38	0.56
1:5:318:ARG:NH2	1:5:689:GLU:OE1	2.37	0.56
1:C:507:VAL:HG13	1:C:543:GLN:HE22	1.71	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:523:MET:HE2	1:G:527:PRO:HD3	1.87	0.56
1:H:318:ARG:NH2	1:H:689:GLU:OE1	2.38	0.56
1:S:315:LYS:HB2	1:S:691:PHE:HD2	1.71	0.56
1:U:419:TYR:OH	1:U:649:HIS:O	2.24	0.56
1:g:419:TYR:OH	1:g:649:HIS:O	2.24	0.56
1:h:507:VAL:HG13	1:h:543:GLN:HE22	1.71	0.56
1:o:419:TYR:OH	1:o:649:HIS:O	2.24	0.56
1:r:315:LYS:HB2	1:r:691:PHE:HD2	1.71	0.56
1:s:315:LYS:HB2	1:s:691:PHE:HD2	1.71	0.56
1:z:359:VAL:H	1:z:653:GLN:NE2	2.01	0.56
1:A:507:VAL:HG13	1:A:543:GLN:HE22	1.71	0.56
1:G:419:TYR:OH	1:G:649:HIS:O	2.24	0.56
1:J:318:ARG:NH2	1:J:689:GLU:OE1	2.38	0.56
1:L:359:VAL:H	1:L:653:GLN:NE2	2.01	0.56
1:M:507:VAL:HG13	1:M:543:GLN:HE22	1.71	0.56
1:T:318:ARG:NH2	1:T:689:GLU:OE1	2.38	0.56
1:U:507:VAL:HG13	1:U:543:GLN:HE22	1.71	0.56
1:Z:419:TYR:OH	1:Z:649:HIS:O	2.24	0.56
1:c:419:TYR:OH	1:c:649:HIS:O	2.24	0.56
1:e:419:TYR:OH	1:e:649:HIS:O	2.24	0.56
1:p:507:VAL:HG13	1:p:543:GLN:HE22	1.71	0.56
1:s:419:TYR:OH	1:s:649:HIS:O	2.24	0.56
1:s:507:VAL:HG13	1:s:543:GLN:HE22	1.71	0.56
1:t:419:TYR:OH	1:t:649:HIS:O	2.24	0.56
1:v:507:VAL:HG13	1:v:543:GLN:HE22	1.71	0.56
1:B:507:VAL:HG13	1:B:543:GLN:HE22	1.71	0.55
1:C:419:TYR:OH	1:C:649:HIS:O	2.24	0.55
1:E:315:LYS:HB2	1:E:691:PHE:HD2	1.71	0.55
1:F:507:VAL:HG13	1:F:543:GLN:HE22	1.71	0.55
1:O:419:TYR:OH	1:O:649:HIS:O	2.24	0.55
1:V:507:VAL:HG13	1:V:543:GLN:HE22	1.71	0.55
1:X:419:TYR:OH	1:X:649:HIS:O	2.24	0.55
1:b:523:MET:HE2	1:b:527:PRO:HD3	1.87	0.55
1:c:318:ARG:NH2	1:c:689:GLU:OE1	2.38	0.55
1:j:327:LYS:HZ3	1:j:340:ASN:HB3	1.71	0.55
1:l:419:TYR:OH	1:l:649:HIS:O	2.24	0.55
1:m:315:LYS:HB2	1:m:691:PHE:HD2	1.71	0.55
1:t:523:MET:HE2	1:t:527:PRO:HD3	1.87	0.55
1:y:507:VAL:HG13	1:y:543:GLN:HE22	1.71	0.55
1:5:507:VAL:HG13	1:5:543:GLN:HE22	1.71	0.55
1:6:523:MET:HE2	1:6:527:PRO:HD3	1.87	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:8:419:TYR:OH	1:8:649:HIS:O	2.24	0.55
1:A:419:TYR:OH	1:A:649:HIS:O	2.24	0.55
1:B:315:LYS:HB2	1:B:691:PHE:HD2	1.71	0.55
1:I:523:MET:HE2	1:I:527:PRO:HD3	1.87	0.55
1:W:523:MET:HE2	1:W:527:PRO:HD3	1.87	0.55
1:Z:318:ARG:NH2	1:Z:689:GLU:OE1	2.38	0.55
1:Z:507:VAL:HG13	1:Z:543:GLN:HE22	1.71	0.55
1:e:318:ARG:NH2	1:e:689:GLU:OE1	2.38	0.55
1:f:523:MET:HE2	1:f:527:PRO:HD3	1.87	0.55
1:v:419:TYR:OH	1:v:649:HIS:O	2.24	0.55
1:1:318:ARG:NH2	1:1:689:GLU:OE1	2.38	0.55
1:2:318:ARG:NH2	1:2:689:GLU:OE1	2.38	0.55
1:3:507:VAL:HG13	1:3:543:GLN:HE22	1.71	0.55
1:8:318:ARG:NH2	1:8:689:GLU:OE1	2.38	0.55
1:H:419:TYR:OH	1:H:649:HIS:O	2.24	0.55
1:L:315:LYS:HB2	1:L:691:PHE:HD2	1.71	0.55
1:R:523:MET:HE2	1:R:527:PRO:HD3	1.87	0.55
1:T:315:LYS:HB2	1:T:691:PHE:HD2	1.71	0.55
1:U:359:VAL:H	1:U:653:GLN:NE2	2.01	0.55
1:V:315:LYS:HB2	1:V:691:PHE:HD2	1.71	0.55
1:a:419:TYR:OH	1:a:649:HIS:O	2.24	0.55
1:a:523:MET:HE2	1:a:527:PRO:HD3	1.87	0.55
1:c:315:LYS:HB2	1:c:691:PHE:HD2	1.71	0.55
1:e:315:LYS:HB2	1:e:691:PHE:HD2	1.71	0.55
1:m:589:THR:HG1	1:m:599:THR:HG1	1.53	0.55
1:p:315:LYS:HB2	1:p:691:PHE:HD2	1.71	0.55
1:q:523:MET:HE2	1:q:527:PRO:HD3	1.87	0.55
1:s:359:VAL:H	1:s:653:GLN:NE2	2.01	0.55
1:u:315:LYS:HB2	1:u:691:PHE:HD2	1.71	0.55
1:u:523:MET:HE2	1:u:527:PRO:HD3	1.87	0.55
1:w:315:LYS:HB2	1:w:691:PHE:HD2	1.71	0.55
1:1:315:LYS:HB2	1:1:691:PHE:HD2	1.71	0.55
1:1:507:VAL:HG13	1:1:543:GLN:HE22	1.71	0.55
1:3:419:TYR:OH	1:3:649:HIS:O	2.24	0.55
1:8:507:VAL:HG13	1:8:543:GLN:HE22	1.71	0.55
1:J:507:VAL:HG13	1:J:543:GLN:HE22	1.71	0.55
1:Q:507:VAL:HG13	1:Q:543:GLN:HE22	1.71	0.55
1:c:523:MET:HE2	1:c:527:PRO:HD3	1.87	0.55
1:e:507:VAL:HG13	1:e:543:GLN:HE22	1.71	0.55
1:x:507:VAL:HG13	1:x:543:GLN:HE22	1.71	0.55
1:y:318:ARG:NH2	1:y:689:GLU:OE1	2.38	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:z:315:LYS:HB2	1:z:691:PHE:HD2	1.71	0.55
1:3:523:MET:HE2	1:3:527:PRO:HD3	1.87	0.55
1:5:419:TYR:OH	1:5:649:HIS:O	2.24	0.55
1:I:315:LYS:HB2	1:I:691:PHE:HD2	1.71	0.55
1:Q:315:LYS:HB2	1:Q:691:PHE:HD2	1.71	0.55
1:S:419:TYR:OH	1:S:649:HIS:O	2.24	0.55
1:X:315:LYS:HB2	1:X:691:PHE:HD2	1.71	0.55
1:a:507:VAL:HG13	1:a:543:GLN:HE22	1.71	0.55
1:d:318:ARG:NH2	1:d:689:GLU:OE1	2.38	0.55
1:e:523:MET:HE2	1:e:527:PRO:HD3	1.87	0.55
1:h:523:MET:HE2	1:h:527:PRO:HD3	1.87	0.55
1:z:507:VAL:HG13	1:z:543:GLN:HE22	1.71	0.55
1:2:507:VAL:HG13	1:2:543:GLN:HE22	1.71	0.55
1:5:315:LYS:HB2	1:5:691:PHE:HD2	1.71	0.55
1:F:318:ARG:NH2	1:F:689:GLU:OE1	2.38	0.55
1:G:315:LYS:HB2	1:G:691:PHE:HD2	1.71	0.55
1:L:507:VAL:HG13	1:L:543:GLN:HE22	1.71	0.55
1:P:419:TYR:OH	1:P:649:HIS:O	2.24	0.55
1:c:507:VAL:HG13	1:c:543:GLN:HE22	1.71	0.55
1:j:419:TYR:OH	1:j:649:HIS:O	2.24	0.55
1:n:318:ARG:NH2	1:n:689:GLU:OE1	2.38	0.55
1:o:315:LYS:HB2	1:o:691:PHE:HD2	1.71	0.55
1:r:419:TYR:OH	1:r:649:HIS:O	2.24	0.55
1:w:290:TYR:OH	1:w:317:MET:SD	2.56	0.55
1:y:359:VAL:H	1:y:653:GLN:NE2	2.01	0.55
1:E:290:TYR:OH	1:E:317:MET:SD	2.56	0.55
1:H:315:LYS:HB2	1:H:691:PHE:HD2	1.71	0.55
1:I:318:ARG:NH2	1:I:689:GLU:OE1	2.38	0.55
1:L:419:TYR:OH	1:L:649:HIS:O	2.24	0.55
1:M:523:MET:HE2	1:M:527:PRO:HD3	1.87	0.55
1:P:290:TYR:OH	1:P:317:MET:SD	2.56	0.55
1:R:507:VAL:HG13	1:R:543:GLN:HE22	1.71	0.55
1:U:523:MET:HE2	1:U:527:PRO:HD3	1.87	0.55
1:h:419:TYR:OH	1:h:649:HIS:O	2.24	0.55
1:j:290:TYR:OH	1:j:317:MET:SD	2.56	0.55
1:x:315:LYS:HB2	1:x:691:PHE:HD2	1.71	0.55
1:I:507:VAL:HG13	1:I:543:GLN:HE22	1.71	0.55
1:M:419:TYR:OH	1:M:649:HIS:O	2.24	0.55
1:q:507:VAL:HG13	1:q:543:GLN:HE22	1.71	0.55
1:s:523:MET:HE2	1:s:527:PRO:HD3	1.87	0.55
1:z:419:TYR:OH	1:z:649:HIS:O	2.24	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:359:VAL:H	1:F:653:GLN:NE2	2.01	0.55
1:M:290:TYR:OH	1:M:317:MET:SD	2.56	0.55
1:i:419:TYR:OH	1:i:649:HIS:O	2.24	0.55
1:i:507:VAL:HG13	1:i:543:GLN:HE22	1.71	0.55
1:t:315:LYS:HB2	1:t:691:PHE:HD2	1.71	0.55
1:I:589:THR:HG1	1:I:599:THR:HG1	1.52	0.55
1:N:419:TYR:OH	1:N:649:HIS:O	2.24	0.55
1:N:507:VAL:HG13	1:N:543:GLN:HE22	1.71	0.55
1:m:587:VAL:HG22	1:n:487:PHE:CZ	2.42	0.55
1:u:318:ARG:NH2	1:u:689:GLU:OE1	2.38	0.55
1:D:315:LYS:HB2	1:D:691:PHE:HD2	1.71	0.54
1:m:717:ASP:OD1	1:s:265:ARG:NE	2.40	0.54
1:u:507:VAL:HG13	1:u:543:GLN:HE22	1.71	0.54
1:T:290:TYR:OH	1:T:317:MET:SD	2.56	0.54
1:T:419:TYR:OH	1:T:649:HIS:O	2.24	0.54
1:k:315:LYS:HB2	1:k:691:PHE:HD2	1.71	0.54
1:m:290:TYR:OH	1:m:317:MET:SD	2.56	0.54
1:m:419:TYR:OH	1:m:649:HIS:O	2.24	0.54
1:q:419:TYR:OH	1:q:649:HIS:O	2.24	0.54
1:t:717:ASP:OD1	1:6:265:ARG:NE	2.41	0.54
1:b:717:ASP:OD1	1:o:265:ARG:NE	2.41	0.54
1:m:318:ARG:NH2	1:m:689:GLU:OE1	2.38	0.54
1:x:419:TYR:OH	1:x:649:HIS:O	2.24	0.54
1:1:419:TYR:OH	1:1:649:HIS:O	2.24	0.54
1:4:507:VAL:HG13	1:4:543:GLN:HE22	1.71	0.54
1:B:419:TYR:OH	1:B:649:HIS:O	2.24	0.54
1:D:290:TYR:OH	1:D:317:MET:SD	2.56	0.54
1:G:717:ASP:OD1	1:W:265:ARG:NE	2.41	0.54
1:H:717:ASP:OD1	1:I:265:ARG:NE	2.41	0.54
1:Q:419:TYR:OH	1:Q:649:HIS:O	2.24	0.54
1:e:717:ASP:OD1	1:h:265:ARG:NE	2.41	0.54
1:k:290:TYR:OH	1:k:317:MET:SD	2.56	0.54
1:u:265:ARG:NE	1:5:717:ASP:OD1	2.41	0.54
1:5:265:ARG:NE	1:8:717:ASP:OD1	2.41	0.54
1:A:487:PHE:CZ	1:I:587:VAL:HG22	2.43	0.54
1:H:265:ARG:NE	1:Z:717:ASP:OD1	2.41	0.54
1:L:290:TYR:OH	1:L:317:MET:SD	2.56	0.54
1:M:265:ARG:NE	1:c:717:ASP:OD1	2.41	0.54
1:O:587:VAL:HG22	1:m:487:PHE:CZ	2.43	0.54
1:R:419:TYR:OH	1:R:649:HIS:O	2.24	0.54
1:T:717:ASP:OD1	1:U:265:ARG:NE	2.41	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:c:265:ARG:NE	1:s:717:ASP:OD1	2.41	0.54
1:g:315:LYS:HB2	1:g:691:PHE:HD2	1.71	0.54
1:x:290:TYR:OH	1:x:317:MET:SD	2.56	0.54
1:z:290:TYR:OH	1:z:317:MET:SD	2.56	0.54
1:C:290:TYR:OH	1:C:317:MET:SD	2.56	0.54
2:G:801:D5M:H8	1:I:634:ASN:OD1	2.08	0.54
1:I:231:SER:HB2	1:I:323:ASN:H	1.73	0.54
1:K:265:ARG:NE	1:7:717:ASP:OD1	2.41	0.54
1:K:507:VAL:HG13	1:K:543:GLN:HE22	1.71	0.54
1:Q:290:TYR:OH	1:Q:317:MET:SD	2.56	0.54
1:T:587:VAL:HG22	1:d:487:PHE:CZ	2.43	0.54
1:X:265:ARG:NE	1:f:717:ASP:OD1	2.41	0.54
1:d:587:VAL:HG11	1:l:604:ASN:HB3	1.90	0.54
1:g:265:ARG:NE	1:k:717:ASP:OD1	2.41	0.54
1:g:290:TYR:OH	1:g:317:MET:SD	2.56	0.54
1:j:231:SER:HB2	1:j:323:ASN:H	1.73	0.54
1:z:634:ASN:OD1	2:2:801:D5M:H8	2.08	0.54
1:6:507:VAL:HG13	1:6:543:GLN:HE22	1.71	0.54
1:A:587:VAL:HG22	1:G:487:PHE:CZ	2.43	0.54
2:A:801:D5M:H8	1:G:634:ASN:OD1	2.08	0.54
1:C:265:ARG:NE	1:D:717:ASP:OD1	2.41	0.54
1:C:315:LYS:HB2	1:C:691:PHE:HD2	1.71	0.54
1:C:487:PHE:CZ	1:M:587:VAL:HG22	2.43	0.54
1:F:265:ARG:NE	1:R:717:ASP:OD1	2.41	0.54
1:F:290:TYR:OH	1:F:317:MET:SD	2.56	0.54
1:I:717:ASP:OD1	1:J:265:ARG:NE	2.40	0.54
1:J:231:SER:HB2	1:J:323:ASN:H	1.73	0.54
1:J:419:TYR:OH	1:J:649:HIS:O	2.24	0.54
1:O:604:ASN:HB3	1:n:587:VAL:HG11	1.90	0.54
1:U:717:ASP:OD1	1:e:265:ARG:NE	2.41	0.54
1:V:487:PHE:CZ	1:X:587:VAL:HG22	2.43	0.54
1:Y:717:ASP:OD1	1:4:265:ARG:NE	2.41	0.54
1:h:290:TYR:OH	1:h:317:MET:SD	2.56	0.54
2:m:801:D5M:H8	1:n:634:ASN:OD1	2.08	0.54
1:n:231:SER:HB2	1:n:323:ASN:H	1.73	0.54
1:r:507:VAL:HG13	1:r:543:GLN:HE22	1.71	0.54
1:t:634:ASN:OD1	2:v:801:D5M:H8	2.08	0.54
1:u:231:SER:HB2	1:u:323:ASN:H	1.73	0.54
1:2:231:SER:HB2	1:2:323:ASN:H	1.73	0.54
1:H:587:VAL:HG22	1:W:487:PHE:CZ	2.43	0.54
2:J:801:D5M:H8	1:L:634:ASN:OD1	2.08	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:487:PHE:CZ	1:b:587:VAL:HG22	2.43	0.54
1:M:717:ASP:OD1	1:N:265:ARG:NE	2.41	0.54
1:N:587:VAL:HG11	1:P:604:ASN:HB3	1.90	0.54
1:P:231:SER:HB2	1:P:323:ASN:H	1.73	0.54
1:R:587:VAL:HG22	1:S:487:PHE:CZ	2.43	0.54
1:X:231:SER:HB2	1:X:323:ASN:H	1.73	0.54
1:a:231:SER:HB2	1:a:323:ASN:H	1.73	0.54
1:c:487:PHE:CZ	1:p:587:VAL:HG22	2.43	0.54
1:f:587:VAL:HG22	1:h:487:PHE:CZ	2.43	0.54
1:i:587:VAL:HG11	1:j:604:ASN:HB3	1.90	0.54
1:o:587:VAL:HG22	1:p:487:PHE:CZ	2.43	0.54
1:q:717:ASP:OD1	1:y:265:ARG:NE	2.41	0.54
1:t:265:ARG:NE	1:y:717:ASP:OD1	2.41	0.54
2:t:801:D5M:H8	1:u:634:ASN:OD1	2.08	0.54
1:y:419:TYR:OH	1:y:649:HIS:O	2.24	0.54
1:2:419:TYR:OH	1:2:649:HIS:O	2.24	0.54
1:5:587:VAL:HG22	1:6:487:PHE:CZ	2.43	0.54
1:B:265:ARG:NE	1:C:717:ASP:OD1	2.41	0.54
1:H:289:ASP:O	1:H:367:THR:HA	2.08	0.54
1:K:419:TYR:OH	1:K:649:HIS:O	2.24	0.54
1:L:717:ASP:OD1	1:b:265:ARG:NE	2.41	0.54
1:S:231:SER:HB2	1:S:323:ASN:H	1.73	0.54
1:S:507:VAL:HG13	1:S:543:GLN:HE22	1.71	0.54
1:T:487:PHE:CZ	1:l:587:VAL:HG22	2.43	0.54
1:V:289:ASP:O	1:V:367:THR:HA	2.08	0.54
1:W:507:VAL:HG13	1:W:543:GLN:HE22	1.71	0.54
1:W:587:VAL:HG22	1:Y:487:PHE:CZ	2.43	0.54
1:d:231:SER:HB2	1:d:323:ASN:H	1.73	0.54
1:g:634:ASN:OD1	2:h:801:D5M:H8	2.08	0.54
1:h:717:ASP:OD1	1:i:265:ARG:NE	2.41	0.54
1:r:289:ASP:O	1:r:367:THR:HA	2.08	0.54
1:s:231:SER:HB2	1:s:323:ASN:H	1.73	0.54
1:s:289:ASP:O	1:s:367:THR:HA	2.08	0.54
1:3:231:SER:HB2	1:3:323:ASN:H	1.73	0.54
1:3:487:PHE:CZ	1:4:587:VAL:HG22	2.43	0.54
1:6:587:VAL:HG22	1:7:487:PHE:CZ	2.43	0.54
1:8:231:SER:HB2	1:8:323:ASN:H	1.73	0.54
1:C:289:ASP:O	1:C:367:THR:HA	2.08	0.53
1:C:634:ASN:OD1	2:M:801:D5M:H8	2.08	0.53
1:D:587:VAL:HG22	1:N:487:PHE:CZ	2.43	0.53
1:E:289:ASP:O	1:E:367:THR:HA	2.08	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:419:TYR:OH	1:E:649:HIS:O	2.24	0.53
1:F:231:SER:HB2	1:F:323:ASN:H	1.73	0.53
1:F:419:TYR:OH	1:F:649:HIS:O	2.24	0.53
1:L:231:SER:HB2	1:L:323:ASN:H	1.73	0.53
1:M:289:ASP:O	1:M:367:THR:HA	2.08	0.53
1:S:289:ASP:O	1:S:367:THR:HA	2.08	0.53
1:U:231:SER:HB2	1:U:323:ASN:H	1.73	0.53
1:V:587:VAL:HG22	1:e:487:PHE:CZ	2.43	0.53
1:X:507:VAL:HG13	1:X:543:GLN:HE22	1.71	0.53
1:X:634:ASN:OD1	2:e:801:D5M:H8	2.08	0.53
1:X:717:ASP:OD1	1:Y:265:ARG:NE	2.41	0.53
1:Z:231:SER:HB2	1:Z:323:ASN:H	1.73	0.53
1:Z:289:ASP:O	1:Z:367:THR:HA	2.08	0.53
1:c:289:ASP:O	1:c:367:THR:HA	2.08	0.53
1:d:315:LYS:HB2	1:d:691:PHE:HD2	1.71	0.53
1:e:289:ASP:O	1:e:367:THR:HA	2.08	0.53
1:g:289:ASP:O	1:g:367:THR:HA	2.08	0.53
1:g:487:PHE:CZ	1:h:587:VAL:HG22	2.43	0.53
1:j:265:ARG:NE	1:l:717:ASP:OD1	2.41	0.53
1:k:289:ASP:O	1:k:367:THR:HA	2.08	0.53
1:o:231:SER:HB2	1:o:323:ASN:H	1.73	0.53
1:p:289:ASP:O	1:p:367:THR:HA	2.08	0.53
1:q:231:SER:HB2	1:q:323:ASN:H	1.73	0.53
1:q:587:VAL:HG11	1:r:604:ASN:HB3	1.90	0.53
1:r:231:SER:HB2	1:r:323:ASN:H	1.73	0.53
1:t:487:PHE:CZ	1:v:587:VAL:HG22	2.43	0.53
1:u:587:VAL:HG22	1:v:487:PHE:CZ	2.43	0.53
1:w:289:ASP:O	1:w:367:THR:HA	2.08	0.53
1:y:231:SER:HB2	1:y:323:ASN:H	1.73	0.53
1:z:231:SER:HB2	1:z:323:ASN:H	1.73	0.53
1:4:419:TYR:OH	1:4:649:HIS:O	2.24	0.53
1:5:289:ASP:O	1:5:367:THR:HA	2.08	0.53
1:A:634:ASN:OD1	2:I:801:D5M:H8	2.08	0.53
1:A:717:ASP:OD1	1:E:265:ARG:NE	2.41	0.53
1:D:265:ARG:NE	1:E:717:ASP:OD1	2.41	0.53
1:D:289:ASP:O	1:D:367:THR:HA	2.08	0.53
1:D:604:ASN:HB3	1:P:587:VAL:HG11	1.90	0.53
1:E:487:PHE:CZ	1:F:587:VAL:HG22	2.43	0.53
1:G:231:SER:HB2	1:G:323:ASN:H	1.73	0.53
1:H:231:SER:HB2	1:H:323:ASN:H	1.73	0.53
1:K:289:ASP:O	1:K:367:THR:HA	2.08	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:587:VAL:HG22	1:a:487:PHE:CZ	2.43	0.53
1:O:231:SER:HB2	1:O:323:ASN:H	1.73	0.53
1:O:265:ARG:NE	1:d:717:ASP:OD1	2.41	0.53
1:O:717:ASP:OD1	1:P:265:ARG:NE	2.41	0.53
1:R:231:SER:HB2	1:R:323:ASN:H	1.73	0.53
1:U:289:ASP:O	1:U:367:THR:HA	2.08	0.53
1:V:231:SER:HB2	1:V:323:ASN:H	1.73	0.53
1:V:604:ASN:HB3	1:X:587:VAL:HG11	1.91	0.53
1:W:289:ASP:O	1:W:367:THR:HA	2.08	0.53
2:c:801:D5M:H8	1:o:634:ASN:OD1	2.08	0.53
1:g:717:ASP:OD1	1:l:265:ARG:NE	2.41	0.53
1:h:289:ASP:O	1:h:367:THR:HA	2.08	0.53
1:i:487:PHE:CZ	1:k:587:VAL:HG22	2.43	0.53
1:k:327:LYS:HZ3	1:k:340:ASN:HB3	1.72	0.53
1:l:231:SER:HB2	1:l:323:ASN:H	1.73	0.53
1:n:315:LYS:HB2	1:n:691:PHE:HD2	1.71	0.53
1:o:587:VAL:HG11	1:p:604:ASN:HB3	1.90	0.53
1:q:487:PHE:CZ	1:s:587:VAL:HG22	2.43	0.53
1:t:231:SER:HB2	1:t:323:ASN:H	1.73	0.53
1:u:419:TYR:OH	1:u:649:HIS:O	2.24	0.53
1:u:587:VAL:HG11	1:v:604:ASN:HB3	1.91	0.53
1:v:717:ASP:OD1	1:w:265:ARG:NE	2.41	0.53
1:w:419:TYR:OH	1:w:649:HIS:O	2.24	0.53
1:w:487:PHE:CZ	1:y:587:VAL:HG22	2.43	0.53
1:5:231:SER:HB2	1:5:323:ASN:H	1.73	0.53
1:8:289:ASP:O	1:8:367:THR:HA	2.08	0.53
1:E:587:VAL:HG22	1:Q:487:PHE:CZ	2.43	0.53
1:F:634:ASN:OD1	2:Q:801:D5M:H8	2.09	0.53
1:F:717:ASP:OD1	1:G:265:ARG:NE	2.42	0.53
1:N:587:VAL:HG22	1:P:487:PHE:CZ	2.44	0.53
1:Q:717:ASP:OD1	1:S:265:ARG:NE	2.41	0.53
1:V:265:ARG:NE	1:W:717:ASP:OD1	2.41	0.53
1:Z:634:ASN:OD1	2:3:801:D5M:H8	2.08	0.53
1:f:419:TYR:OH	1:f:649:HIS:O	2.24	0.53
1:j:587:VAL:HG11	1:k:604:ASN:HB3	1.90	0.53
1:o:507:VAL:HG13	1:o:543:GLN:HE22	1.71	0.53
1:p:231:SER:HB2	1:p:323:ASN:H	1.73	0.53
1:p:265:ARG:NE	1:6:717:ASP:OD1	2.41	0.53
1:q:327:LYS:HZ3	1:q:340:ASN:HB3	1.73	0.53
1:q:587:VAL:HG22	1:r:487:PHE:CZ	2.44	0.53
1:r:265:ARG:NE	1:x:717:ASP:OD1	2.41	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:u:717:ASP:OD1	1:2:265:ARG:NE	2.41	0.53
2:u:801:D5M:H8	1:v:634:ASN:OD1	2.09	0.53
1:z:604:ASN:HB3	1:2:587:VAL:HG11	1.90	0.53
1:4:289:ASP:O	1:4:367:THR:HA	2.08	0.53
1:5:634:ASN:OD1	2:7:801:D5M:H8	2.08	0.53
1:6:289:ASP:O	1:6:367:THR:HA	2.08	0.53
1:A:231:SER:HB2	1:A:323:ASN:H	1.73	0.53
1:B:487:PHE:CZ	1:L:587:VAL:HG22	2.43	0.53
1:D:231:SER:HB2	1:D:323:ASN:H	1.73	0.53
1:D:419:TYR:OH	1:D:649:HIS:O	2.24	0.53
1:I:419:TYR:OH	1:I:649:HIS:O	2.24	0.53
1:P:289:ASP:O	1:P:367:THR:HA	2.08	0.53
1:R:327:LYS:HZ3	1:R:340:ASN:HB3	1.73	0.53
1:R:487:PHE:CZ	1:U:587:VAL:HG22	2.43	0.53
1:R:587:VAL:HG11	1:S:604:ASN:HB3	1.90	0.53
2:T:801:D5M:H8	1:d:634:ASN:OD1	2.09	0.53
1:W:231:SER:HB2	1:W:323:ASN:H	1.73	0.53
1:Z:265:ARG:NE	1:a:717:ASP:OD1	2.41	0.53
1:Z:587:VAL:HG11	1:4:604:ASN:HB3	1.90	0.53
1:a:289:ASP:O	1:a:367:THR:HA	2.08	0.53
2:a:801:D5M:H8	1:8:634:ASN:OD1	2.08	0.53
1:b:419:TYR:OH	1:b:649:HIS:O	2.24	0.53
1:f:265:ARG:NE	1:z:717:ASP:OD1	2.41	0.53
1:i:587:VAL:HG22	1:j:487:PHE:CZ	2.44	0.53
1:j:289:ASP:O	1:j:367:THR:HA	2.08	0.53
1:k:231:SER:HB2	1:k:323:ASN:H	1.73	0.53
1:l:265:ARG:NE	1:n:717:ASP:OD1	2.41	0.53
1:v:231:SER:HB2	1:v:323:ASN:H	1.73	0.53
2:w:801:D5M:H8	1:x:634:ASN:OD1	2.08	0.53
2:x:801:D5M:H8	1:y:634:ASN:OD1	2.09	0.53
1:3:289:ASP:O	1:3:367:THR:HA	2.08	0.53
2:D:801:D5M:H8	1:N:634:ASN:OD1	2.09	0.53
1:H:634:ASN:OD1	2:Y:801:D5M:H8	2.08	0.53
2:H:801:D5M:H8	1:W:634:ASN:OD1	2.09	0.53
1:I:289:ASP:O	1:I:367:THR:HA	2.08	0.53
1:J:587:VAL:HG11	1:L:604:ASN:HB3	1.90	0.53
1:K:604:ASN:HB3	1:8:587:VAL:HG11	1.91	0.53
1:O:634:ASN:OD1	2:n:801:D5M:H8	2.08	0.53
1:P:717:ASP:OD1	1:Q:265:ARG:NE	2.41	0.53
1:R:634:ASN:OD1	2:U:801:D5M:H8	2.09	0.53
1:S:587:VAL:HG22	1:U:487:PHE:CZ	2.44	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:S:587:VAL:HG11	1:U:604:ASN:HB3	1.90	0.53
1:T:634:ASN:OD1	2:l:801:D5M:H8	2.09	0.53
1:W:419:TYR:OH	1:W:649:HIS:O	2.24	0.53
1:a:587:VAL:HG22	1:8:487:PHE:CZ	2.44	0.53
1:c:634:ASN:OD1	2:p:801:D5M:H8	2.09	0.53
1:i:634:ASN:OD1	2:k:801:D5M:H8	2.09	0.53
1:o:717:ASP:OD1	1:7:265:ARG:NE	2.41	0.53
1:r:587:VAL:HG11	1:s:604:ASN:HB3	1.90	0.53
1:v:265:ARG:NE	1:l:717:ASP:OD1	2.41	0.53
1:3:717:ASP:OD1	1:8:265:ARG:NE	2.41	0.53
1:5:487:PHE:CZ	1:7:587:VAL:HG22	2.44	0.53
1:6:231:SER:HB2	1:6:323:ASN:H	1.73	0.53
1:6:419:TYR:OH	1:6:649:HIS:O	2.24	0.53
2:B:801:D5M:H8	1:J:634:ASN:OD1	2.08	0.53
1:C:587:VAL:HG22	1:b:487:PHE:CZ	2.43	0.53
2:E:801:D5M:H8	1:Q:634:ASN:OD1	2.09	0.53
1:H:487:PHE:CZ	1:Y:587:VAL:HG22	2.44	0.53
1:J:717:ASP:OD1	1:a:265:ARG:NE	2.41	0.53
1:K:487:PHE:CZ	1:8:587:VAL:HG22	2.43	0.53
1:K:634:ASN:OD1	2:8:801:D5M:H8	2.09	0.53
1:Q:327:LYS:HZ3	1:Q:340:ASN:HB3	1.73	0.53
2:V:801:D5M:H8	1:e:634:ASN:OD1	2.09	0.53
1:W:487:PHE:HE2	1:W:512:LYS:HB2	1.74	0.53
1:X:289:ASP:O	1:X:367:THR:HA	2.08	0.53
1:Z:487:PHE:CZ	1:3:587:VAL:HG22	2.44	0.53
2:Z:801:D5M:H8	1:4:634:ASN:OD1	2.09	0.53
1:k:265:ARG:NE	1:w:717:ASP:OD1	2.41	0.53
1:k:419:TYR:OH	1:k:649:HIS:O	2.24	0.53
1:p:717:ASP:OD1	1:q:265:ARG:NE	2.41	0.53
1:w:587:VAL:HG22	1:x:487:PHE:CZ	2.44	0.53
1:1:231:SER:HB2	1:1:323:ASN:H	1.73	0.53
2:5:801:D5M:H8	1:6:634:ASN:OD1	2.09	0.53
1:6:487:PHE:HE2	1:6:512:LYS:HB2	1.74	0.53
1:O:487:PHE:CZ	1:n:587:VAL:HG22	2.44	0.53
1:Q:231:SER:HB2	1:Q:323:ASN:H	1.73	0.53
1:S:717:ASP:OD1	1:d:265:ARG:NE	2.41	0.53
1:Z:587:VAL:HG22	1:4:487:PHE:CZ	2.43	0.53
1:d:587:VAL:HG22	1:l:487:PHE:CZ	2.44	0.53
2:d:801:D5M:H8	1:l:634:ASN:OD1	2.08	0.53
1:f:231:SER:HB2	1:f:323:ASN:H	1.73	0.53
1:f:487:PHE:CZ	1:g:587:VAL:HG22	2.43	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:n:291:ASN:O	1:n:292:ARG:HG3	2.09	0.53
1:o:289:ASP:O	1:o:367:THR:HA	2.08	0.53
1:q:634:ASN:OD1	2:s:801:D5M:H8	2.09	0.53
1:r:587:VAL:HG22	1:s:487:PHE:CZ	2.44	0.53
1:x:231:SER:HB2	1:x:323:ASN:H	1.73	0.53
2:6:801:D5M:H8	1:7:634:ASN:OD1	2.09	0.53
1:A:604:ASN:HB3	1:I:587:VAL:HG11	1.91	0.53
1:B:231:SER:HB2	1:B:323:ASN:H	1.73	0.53
1:B:291:ASN:O	1:B:292:ARG:HG3	2.09	0.53
1:C:231:SER:HB2	1:C:323:ASN:H	1.73	0.53
1:D:634:ASN:OD1	2:P:801:D5M:H8	2.09	0.53
1:G:289:ASP:O	1:G:367:THR:HA	2.08	0.53
1:H:604:ASN:HB3	1:Y:587:VAL:HG11	1.90	0.53
1:K:291:ASN:O	1:K:292:ARG:HG3	2.09	0.53
1:M:493:PHE:N	1:M:502:ASN:HD21	2.00	0.53
1:N:628:LYS:HB2	1:N:650:PRO:HG3	1.91	0.53
1:O:409:LEU:HD11	1:O:415:PHE:HB2	1.91	0.53
1:P:487:PHE:HE2	1:P:512:LYS:HB2	1.74	0.53
1:R:265:ARG:NE	1:V:717:ASP:OD1	2.41	0.53
2:W:801:D5M:H8	1:Y:634:ASN:OD1	2.09	0.53
1:Z:291:ASN:O	1:Z:292:ARG:HG3	2.09	0.53
1:d:291:ASN:O	1:d:292:ARG:HG3	2.09	0.53
1:f:604:ASN:HB3	1:g:587:VAL:HG11	1.91	0.53
1:j:487:PHE:HE2	1:j:512:LYS:HB2	1.74	0.53
1:j:717:ASP:OD1	1:x:265:ARG:NE	2.41	0.53
1:k:487:PHE:HE2	1:k:512:LYS:HB2	1.74	0.53
1:n:327:LYS:HZ3	1:n:340:ASN:HB3	1.74	0.53
1:o:290:TYR:OH	1:o:317:MET:SD	2.56	0.53
1:q:289:ASP:O	1:q:367:THR:HA	2.08	0.53
2:q:801:D5M:H8	1:r:634:ASN:OD1	2.08	0.53
1:t:289:ASP:O	1:t:367:THR:HA	2.08	0.53
1:u:289:ASP:O	1:u:367:THR:HA	2.08	0.53
1:z:487:PHE:CZ	1:2:587:VAL:HG22	2.44	0.53
1:z:587:VAL:HG22	1:1:487:PHE:CZ	2.43	0.53
1:1:289:ASP:O	1:1:367:THR:HA	2.08	0.53
1:1:291:ASN:O	1:1:292:ARG:HG3	2.09	0.53
1:2:717:ASP:OD1	1:3:265:ARG:NE	2.41	0.53
1:8:291:ASN:O	1:8:292:ARG:HG3	2.09	0.53
1:D:487:PHE:HE2	1:D:512:LYS:HB2	1.74	0.53
1:F:289:ASP:O	1:F:367:THR:HA	2.08	0.53
1:F:291:ASN:O	1:F:292:ARG:HG3	2.09	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:487:PHE:HE2	1:G:512:LYS:HB2	1.74	0.53
1:J:587:VAL:HG22	1:L:487:PHE:CZ	2.44	0.53
1:R:289:ASP:O	1:R:367:THR:HA	2.08	0.53
2:R:801:D5M:H8	1:S:634:ASN:OD1	2.08	0.53
1:X:291:ASN:O	1:X:292:ARG:HG3	2.09	0.53
1:b:231:SER:HB2	1:b:323:ASN:H	1.73	0.53
1:b:291:ASN:O	1:b:292:ARG:HG3	2.09	0.53
1:d:327:LYS:HZ3	1:d:340:ASN:HB3	1.74	0.53
1:d:628:LYS:HB2	1:d:650:PRO:HG3	1.91	0.53
1:f:291:ASN:O	1:f:292:ARG:HG3	2.09	0.53
1:g:231:SER:HB2	1:g:323:ASN:H	1.73	0.53
1:h:291:ASN:O	1:h:292:ARG:HG3	2.09	0.53
1:i:628:LYS:HB2	1:i:650:PRO:HG3	1.91	0.53
2:j:801:D5M:H8	1:k:634:ASN:OD1	2.09	0.53
1:l:409:LEU:HD11	1:l:415:PHE:HB2	1.91	0.53
1:n:265:ARG:NE	1:r:717:ASP:OD1	2.41	0.53
1:n:628:LYS:HB2	1:n:650:PRO:HG3	1.91	0.53
1:o:291:ASN:O	1:o:292:ARG:HG3	2.09	0.53
2:1:801:D5M:H8	1:2:634:ASN:OD1	2.08	0.53
1:4:291:ASN:O	1:4:292:ARG:HG3	2.09	0.53
1:5:487:PHE:HE2	1:5:512:LYS:HB2	1.74	0.53
1:B:289:ASP:O	1:B:367:THR:HA	2.08	0.53
1:C:587:VAL:HG11	1:b:604:ASN:HB3	1.91	0.53
1:G:587:VAL:HG22	1:I:487:PHE:CZ	2.43	0.53
1:H:487:PHE:HE2	1:H:512:LYS:HB2	1.74	0.53
1:I:291:ASN:O	1:I:292:ARG:HG3	2.09	0.53
1:M:291:ASN:O	1:M:292:ARG:HG3	2.09	0.53
2:O:801:D5M:H8	1:m:634:ASN:OD1	2.09	0.53
1:P:409:LEU:HD11	1:P:415:PHE:HB2	1.91	0.53
1:S:628:LYS:HB2	1:S:650:PRO:HG3	1.91	0.53
1:T:265:ARG:NE	1:i:717:ASP:OD1	2.41	0.53
1:T:487:PHE:HE2	1:T:512:LYS:HB2	1.74	0.53
1:j:409:LEU:HD11	1:j:415:PHE:HB2	1.91	0.53
1:l:291:ASN:O	1:l:292:ARG:HG3	2.09	0.53
1:r:628:LYS:HB2	1:r:650:PRO:HG3	1.91	0.53
1:t:604:ASN:HB3	1:v:587:VAL:HG11	1.91	0.53
1:w:628:LYS:HB2	1:w:650:PRO:HG3	1.91	0.53
1:x:587:VAL:HG22	1:y:487:PHE:CZ	2.43	0.53
1:y:291:ASN:O	1:y:292:ARG:HG3	2.09	0.53
1:z:289:ASP:O	1:z:367:THR:HA	2.08	0.53
1:3:290:TYR:OH	1:3:317:MET:SD	2.56	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:5:604:ASN:HB3	1:7:587:VAL:HG11	1.90	0.53
1:A:265:ARG:NE	1:B:717:ASP:OD1	2.41	0.52
1:A:289:ASP:O	1:A:367:THR:HA	2.08	0.52
1:B:634:ASN:OD1	2:L:801:D5M:H8	2.09	0.52
1:E:231:SER:HB2	1:E:323:ASN:H	1.73	0.52
1:F:487:PHE:CZ	1:Q:587:VAL:HG22	2.43	0.52
1:F:628:LYS:HB2	1:F:650:PRO:HG3	1.91	0.52
1:L:487:PHE:HE2	1:L:512:LYS:HB2	1.74	0.52
1:L:628:LYS:HB2	1:L:650:PRO:HG3	1.91	0.52
1:N:291:ASN:O	1:N:292:ARG:HG3	2.09	0.52
1:O:291:ASN:O	1:O:292:ARG:HG3	2.09	0.52
2:S:801:D5M:H8	1:U:634:ASN:OD1	2.08	0.52
1:Y:289:ASP:O	1:Y:367:THR:HA	2.08	0.52
1:Y:291:ASN:O	1:Y:292:ARG:HG3	2.09	0.52
1:e:628:LYS:HB2	1:e:650:PRO:HG3	1.91	0.52
1:g:487:PHE:HE2	1:g:512:LYS:HB2	1.74	0.52
1:i:231:SER:HB2	1:i:323:ASN:H	1.73	0.52
1:i:291:ASN:O	1:i:292:ARG:HG3	2.09	0.52
1:m:291:ASN:O	1:m:292:ARG:HG3	2.09	0.52
1:m:409:LEU:HD11	1:m:415:PHE:HB2	1.91	0.52
1:m:487:PHE:HE2	1:m:512:LYS:HB2	1.74	0.52
1:o:409:LEU:HD11	1:o:415:PHE:HB2	1.91	0.52
1:s:628:LYS:HB2	1:s:650:PRO:HG3	1.91	0.52
1:t:291:ASN:O	1:t:292:ARG:HG3	2.09	0.52
1:t:487:PHE:HE2	1:t:512:LYS:HB2	1.74	0.52
1:w:231:SER:HB2	1:w:323:ASN:H	1.73	0.52
1:y:289:ASP:O	1:y:367:THR:HA	2.08	0.52
1:z:628:LYS:HB2	1:z:650:PRO:HG3	1.91	0.52
1:2:409:LEU:HD11	1:2:415:PHE:HB2	1.91	0.52
1:4:628:LYS:HB2	1:4:650:PRO:HG3	1.91	0.52
1:A:587:VAL:HG11	1:G:604:ASN:HB3	1.91	0.52
1:A:628:LYS:HB2	1:A:650:PRO:HG3	1.91	0.52
1:B:487:PHE:HD2	1:B:512:LYS:HD2	1.75	0.52
1:C:487:PHE:HE2	1:C:512:LYS:HB2	1.74	0.52
1:E:628:LYS:HB2	1:E:650:PRO:HG3	1.91	0.52
1:G:290:TYR:OH	1:G:317:MET:SD	2.56	0.52
1:G:291:ASN:O	1:G:292:ARG:HG3	2.09	0.52
1:K:409:LEU:HD11	1:K:415:PHE:HB2	1.91	0.52
1:K:628:LYS:HB2	1:K:650:PRO:HG3	1.91	0.52
1:K:717:ASP:OD1	1:L:265:ARG:NE	2.41	0.52
1:L:289:ASP:O	1:L:367:THR:HA	2.08	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:409:LEU:HD11	1:N:415:PHE:HB2	1.91	0.52
1:R:291:ASN:O	1:R:292:ARG:HG3	2.09	0.52
1:T:409:LEU:HD11	1:T:415:PHE:HB2	1.91	0.52
1:U:290:TYR:OH	1:U:317:MET:SD	2.56	0.52
1:U:291:ASN:O	1:U:292:ARG:HG3	2.09	0.52
1:U:487:PHE:HE2	1:U:512:LYS:HB2	1.74	0.52
1:U:628:LYS:HB2	1:U:650:PRO:HG3	1.91	0.52
1:X:409:LEU:HD11	1:X:415:PHE:HB2	1.91	0.52
1:X:487:PHE:CZ	1:e:587:VAL:HG22	2.43	0.52
1:Z:503:ASN:OD1	1:Z:504:VAL:N	2.43	0.52
1:b:409:LEU:HD11	1:b:415:PHE:HB2	1.91	0.52
1:e:231:SER:HB2	1:e:323:ASN:H	1.73	0.52
1:e:409:LEU:HD11	1:e:415:PHE:HB2	1.91	0.52
1:f:289:ASP:O	1:f:367:THR:HA	2.08	0.52
1:f:409:LEU:HD11	1:f:415:PHE:HB2	1.91	0.52
1:h:409:LEU:HD11	1:h:415:PHE:HB2	1.91	0.52
2:i:801:D5M:H8	1:j:634:ASN:OD1	2.08	0.52
1:j:587:VAL:HG22	1:k:487:PHE:CZ	2.43	0.52
1:m:289:ASP:O	1:m:367:THR:HA	2.08	0.52
2:o:801:D5M:H8	1:p:634:ASN:OD1	2.08	0.52
1:p:503:ASN:OD1	1:p:504:VAL:N	2.43	0.52
1:q:291:ASN:O	1:q:292:ARG:HG3	2.09	0.52
1:t:587:VAL:HG22	1:u:487:PHE:CZ	2.43	0.52
1:u:291:ASN:O	1:u:292:ARG:HG3	2.09	0.52
1:v:628:LYS:HB2	1:v:650:PRO:HG3	1.91	0.52
1:x:487:PHE:HD2	1:x:512:LYS:HD2	1.75	0.52
1:y:628:LYS:HB2	1:y:650:PRO:HG3	1.91	0.52
1:2:289:ASP:O	1:2:367:THR:HA	2.08	0.52
1:4:409:LEU:HD11	1:4:415:PHE:HB2	1.91	0.52
1:8:503:ASN:OD1	1:8:504:VAL:N	2.43	0.52
1:B:503:ASN:OD1	1:B:504:VAL:N	2.43	0.52
1:J:289:ASP:O	1:J:367:THR:HA	2.08	0.52
1:J:409:LEU:HD11	1:J:415:PHE:HB2	1.91	0.52
1:K:487:PHE:HE2	1:K:512:LYS:HB2	1.74	0.52
1:L:487:PHE:HD2	1:L:512:LYS:HD2	1.75	0.52
1:M:409:LEU:HD11	1:M:415:PHE:HB2	1.91	0.52
1:M:628:LYS:HB2	1:M:650:PRO:HG3	1.91	0.52
1:N:231:SER:HB2	1:N:323:ASN:H	1.73	0.52
1:N:289:ASP:O	1:N:367:THR:HA	2.08	0.52
1:O:487:PHE:HD2	1:O:512:LYS:HD2	1.75	0.52
1:Q:487:PHE:HD2	1:Q:512:LYS:HD2	1.75	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Q:507:VAL:HG22	1:Q:542:MET:HE3	1.92	0.52
1:T:291:ASN:O	1:T:292:ARG:HG3	2.09	0.52
1:V:503:ASN:OD1	1:V:504:VAL:N	2.43	0.52
1:b:289:ASP:O	1:b:367:THR:HA	2.08	0.52
1:c:409:LEU:HD11	1:c:415:PHE:HB2	1.91	0.52
1:c:587:VAL:HG22	1:o:487:PHE:CZ	2.43	0.52
1:c:628:LYS:HB2	1:c:650:PRO:HG3	1.91	0.52
1:g:604:ASN:HB3	1:h:587:VAL:HG11	1.90	0.52
1:h:628:LYS:HB2	1:h:650:PRO:HG3	1.91	0.52
1:i:289:ASP:O	1:i:367:THR:HA	2.08	0.52
1:i:327:LYS:HZ3	1:i:340:ASN:HB3	1.73	0.52
1:l:487:PHE:HE2	1:l:512:LYS:HB2	1.74	0.52
1:p:487:PHE:HE2	1:p:512:LYS:HB2	1.74	0.52
2:r:801:D5M:H8	1:s:634:ASN:OD1	2.08	0.52
1:u:503:ASN:OD1	1:u:504:VAL:N	2.43	0.52
1:v:289:ASP:O	1:v:367:THR:HA	2.08	0.52
1:w:507:VAL:HG22	1:w:542:MET:HE3	1.92	0.52
1:x:507:VAL:HG22	1:x:542:MET:HE3	1.92	0.52
1:y:719:GLN:HB3	1:y:731:PRO:HG2	1.92	0.52
1:z:265:ARG:NE	1:4:717:ASP:OD1	2.41	0.52
1:z:487:PHE:HD2	1:z:512:LYS:HD2	1.75	0.52
1:z:487:PHE:HE2	1:z:512:LYS:HB2	1.74	0.52
1:z:507:VAL:HG22	1:z:542:MET:HE3	1.92	0.52
2:z:801:D5M:H8	1:1:634:ASN:OD1	2.09	0.52
1:1:487:PHE:HD2	1:1:512:LYS:HD2	1.75	0.52
1:4:231:SER:HB2	1:4:323:ASN:H	1.73	0.52
1:4:487:PHE:HE2	1:4:512:LYS:HB2	1.74	0.52
1:6:327:LYS:HZ3	1:6:340:ASN:HB3	1.74	0.52
1:7:289:ASP:O	1:7:367:THR:HA	2.08	0.52
1:7:487:PHE:HD2	1:7:512:LYS:HD2	1.75	0.52
1:C:604:ASN:HB3	1:M:587:VAL:HG11	1.91	0.52
1:D:487:PHE:CZ	1:P:587:VAL:HG22	2.43	0.52
1:D:487:PHE:HD2	1:D:512:LYS:HD2	1.75	0.52
1:E:409:LEU:HD11	1:E:415:PHE:HB2	1.91	0.52
1:E:507:VAL:HG22	1:E:542:MET:HE3	1.92	0.52
1:E:634:ASN:OD1	2:F:801:D5M:H8	2.09	0.52
1:F:719:GLN:HB3	1:F:731:PRO:HG2	1.92	0.52
1:H:487:PHE:HD2	1:H:512:LYS:HD2	1.75	0.52
1:I:503:ASN:OD1	1:I:504:VAL:N	2.43	0.52
1:L:409:LEU:HD11	1:L:415:PHE:HB2	1.91	0.52
1:L:507:VAL:HG22	1:L:542:MET:HE3	1.92	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:N:801:D5M:H8	1:P:634:ASN:OD1	2.09	0.52
1:O:487:PHE:HE2	1:O:512:LYS:HB2	1.74	0.52
1:P:628:LYS:HB2	1:P:650:PRO:HG3	1.91	0.52
1:Q:409:LEU:HD11	1:Q:415:PHE:HB2	1.91	0.52
1:R:409:LEU:HD11	1:R:415:PHE:HB2	1.91	0.52
1:T:289:ASP:O	1:T:367:THR:HA	2.08	0.52
1:T:589:THR:HG1	1:T:599:THR:HG1	1.57	0.52
1:V:634:ASN:OD1	2:X:801:D5M:H8	2.08	0.52
1:W:409:LEU:HD11	1:W:415:PHE:HB2	1.91	0.52
1:X:503:ASN:OD1	1:X:504:VAL:N	2.43	0.52
1:Y:487:PHE:HD2	1:Y:512:LYS:HD2	1.75	0.52
1:Z:487:PHE:HE2	1:Z:512:LYS:HB2	1.74	0.52
1:Z:604:ASN:HB3	1:3:587:VAL:HG11	1.90	0.52
1:a:628:LYS:HB2	1:a:650:PRO:HG3	1.91	0.52
1:d:289:ASP:O	1:d:367:THR:HA	2.08	0.52
2:f:801:D5M:H8	1:h:634:ASN:OD1	2.08	0.52
1:i:409:LEU:HD11	1:i:415:PHE:HB2	1.91	0.52
1:i:507:VAL:HG22	1:i:542:MET:HE3	1.92	0.52
1:l:487:PHE:HD2	1:l:512:LYS:HD2	1.75	0.52
1:o:503:ASN:OD1	1:o:504:VAL:N	2.43	0.52
1:q:409:LEU:HD11	1:q:415:PHE:HB2	1.91	0.52
1:q:719:GLN:HB3	1:q:731:PRO:HG2	1.92	0.52
1:s:291:ASN:O	1:s:292:ARG:HG3	2.09	0.52
1:t:507:VAL:HG22	1:t:542:MET:HE3	1.92	0.52
1:u:507:VAL:HG22	1:u:542:MET:HE3	1.92	0.52
1:w:487:PHE:HE2	1:w:512:LYS:HB2	1.74	0.52
1:x:409:LEU:HD11	1:x:415:PHE:HB2	1.91	0.52
1:z:409:LEU:HD11	1:z:415:PHE:HB2	1.91	0.52
1:1:503:ASN:OD1	1:1:504:VAL:N	2.43	0.52
1:3:628:LYS:HB2	1:3:650:PRO:HG3	1.91	0.52
1:6:409:LEU:HD11	1:6:415:PHE:HB2	1.91	0.52
1:6:507:VAL:HG22	1:6:542:MET:HE3	1.92	0.52
1:7:291:ASN:O	1:7:292:ARG:HG3	2.09	0.52
1:E:487:PHE:HE2	1:E:512:LYS:HB2	1.74	0.52
1:E:604:ASN:HB3	1:F:587:VAL:HG11	1.91	0.52
1:F:487:PHE:HE2	1:F:512:LYS:HB2	1.74	0.52
1:G:507:VAL:HG22	1:G:542:MET:HE3	1.92	0.52
1:H:409:LEU:HD11	1:H:415:PHE:HB2	1.91	0.52
1:I:487:PHE:HE2	1:I:512:LYS:HB2	1.74	0.52
1:I:507:VAL:HG22	1:I:542:MET:HE3	1.92	0.52
1:L:503:ASN:OD1	1:L:504:VAL:N	2.43	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:507:VAL:HG22	1:N:542:MET:HE3	1.92	0.52
1:Q:628:LYS:HB2	1:Q:650:PRO:HG3	1.91	0.52
1:S:589:THR:HG1	1:S:599:THR:HG1	1.56	0.52
1:V:487:PHE:HE2	1:V:512:LYS:HB2	1.74	0.52
1:V:587:VAL:HG11	1:e:604:ASN:HB3	1.90	0.52
1:W:507:VAL:HG22	1:W:542:MET:HE3	1.92	0.52
1:a:587:VAL:HG11	1:8:604:ASN:HB3	1.90	0.52
1:b:507:VAL:HG22	1:b:542:MET:HE3	1.92	0.52
1:c:231:SER:HB2	1:c:323:ASN:H	1.73	0.52
1:d:419:TYR:OH	1:d:649:HIS:O	2.24	0.52
1:f:507:VAL:HG22	1:f:542:MET:HE3	1.92	0.52
1:k:487:PHE:HD2	1:k:512:LYS:HD2	1.75	0.52
1:n:289:ASP:O	1:n:367:THR:HA	2.08	0.52
1:n:419:TYR:OH	1:n:649:HIS:O	2.24	0.52
1:o:719:GLN:HB3	1:o:731:PRO:HG2	1.92	0.52
1:q:364:THR:HA	1:s:446:GLN:HA	1.92	0.52
1:t:587:VAL:HG11	1:u:604:ASN:HB3	1.90	0.52
1:u:487:PHE:HE2	1:u:512:LYS:HB2	1.74	0.52
1:w:409:LEU:HD11	1:w:415:PHE:HB2	1.91	0.52
1:w:604:ASN:HB3	1:y:587:VAL:HG11	1.90	0.52
1:w:634:ASN:OD1	2:y:801:D5M:H8	2.09	0.52
1:z:503:ASN:OD1	1:z:504:VAL:N	2.43	0.52
1:5:409:LEU:HD11	1:5:415:PHE:HB2	1.91	0.52
1:5:446:GLN:HA	1:6:364:THR:HA	1.92	0.52
1:5:487:PHE:HD2	1:5:512:LYS:HD2	1.75	0.52
1:6:628:LYS:HB2	1:6:650:PRO:HG3	1.91	0.52
2:C:801:D5M:H8	1:b:634:ASN:OD1	2.09	0.52
1:D:446:GLN:HA	1:N:364:THR:HA	1.92	0.52
1:D:507:VAL:HG22	1:D:542:MET:HE3	1.92	0.52
1:E:291:ASN:O	1:E:292:ARG:HG3	2.09	0.52
1:F:409:LEU:HD11	1:F:415:PHE:HB2	1.91	0.52
1:G:503:ASN:OD1	1:G:504:VAL:N	2.43	0.52
1:K:231:SER:HB2	1:K:323:ASN:H	1.73	0.52
2:K:801:D5M:H8	1:a:634:ASN:OD1	2.09	0.52
1:M:634:ASN:OD1	2:b:801:D5M:H8	2.09	0.52
1:R:364:THR:HA	1:U:446:GLN:HA	1.92	0.52
1:R:719:GLN:HB3	1:R:731:PRO:HG2	1.92	0.52
1:T:628:LYS:HB2	1:T:650:PRO:HG3	1.91	0.52
1:V:291:ASN:O	1:V:292:ARG:HG3	2.09	0.52
1:V:487:PHE:HD2	1:V:512:LYS:HD2	1.75	0.52
1:W:291:ASN:O	1:W:292:ARG:HG3	2.09	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:X:719:GLN:HB3	1:X:731:PRO:HG2	1.92	0.52
1:Y:231:SER:HB2	1:Y:323:ASN:H	1.73	0.52
1:Y:419:TYR:OH	1:Y:649:HIS:O	2.24	0.52
1:Y:487:PHE:HE2	1:Y:512:LYS:HB2	1.74	0.52
1:Y:719:GLN:HB3	1:Y:731:PRO:HG2	1.92	0.52
1:a:503:ASN:OD1	1:a:504:VAL:N	2.43	0.52
1:b:487:PHE:HD2	1:b:512:LYS:HD2	1.75	0.52
1:f:634:ASN:OD1	2:g:801:D5M:H8	2.09	0.52
1:h:487:PHE:HD2	1:h:512:LYS:HD2	1.75	0.52
1:j:628:LYS:HB2	1:j:650:PRO:HG3	1.91	0.52
1:p:419:TYR:OH	1:p:649:HIS:O	2.24	0.52
1:p:487:PHE:HD2	1:p:512:LYS:HD2	1.75	0.52
1:r:487:PHE:HD2	1:r:512:LYS:HD2	1.75	0.52
1:s:487:PHE:HE2	1:s:512:LYS:HB2	1.74	0.52
1:s:719:GLN:HB3	1:s:731:PRO:HG2	1.92	0.52
1:t:503:ASN:OD1	1:t:504:VAL:N	2.43	0.52
1:v:487:PHE:HE2	1:v:512:LYS:HB2	1.74	0.52
1:v:507:VAL:HG22	1:v:542:MET:HE3	1.92	0.52
1:w:587:VAL:HG11	1:x:604:ASN:HB3	1.90	0.52
1:x:289:ASP:O	1:x:367:THR:HA	2.08	0.52
1:x:628:LYS:HB2	1:x:650:PRO:HG3	1.91	0.52
1:1:587:VAL:HG11	1:2:604:ASN:HB3	1.90	0.52
1:3:634:ASN:OD1	2:4:801:D5M:H8	2.09	0.52
1:5:587:VAL:HG11	1:6:604:ASN:HB3	1.90	0.52
1:6:291:ASN:O	1:6:292:ARG:HG3	2.09	0.52
1:7:231:SER:HB2	1:7:323:ASN:H	1.73	0.52
1:8:487:PHE:HE2	1:8:512:LYS:HB2	1.74	0.52
1:A:507:VAL:HG22	1:A:542:MET:HE3	1.92	0.52
1:B:587:VAL:HG11	1:J:604:ASN:HB3	1.90	0.52
1:C:291:ASN:O	1:C:292:ARG:HG3	2.09	0.52
1:H:446:GLN:HA	1:W:364:THR:HA	1.92	0.52
1:H:587:VAL:HG11	1:W:604:ASN:HB3	1.90	0.52
1:I:487:PHE:HD2	1:I:512:LYS:HD2	1.75	0.52
1:I:719:GLN:HB3	1:I:731:PRO:HG2	1.92	0.52
1:K:446:GLN:HA	1:a:364:THR:HA	1.92	0.52
1:K:719:GLN:HB3	1:K:731:PRO:HG2	1.92	0.52
1:M:231:SER:HB2	1:M:323:ASN:H	1.73	0.52
1:M:487:PHE:HD2	1:M:512:LYS:HD2	1.75	0.52
1:P:291:ASN:O	1:P:292:ARG:HG3	2.09	0.52
1:Q:289:ASP:O	1:Q:367:THR:HA	2.08	0.52
1:S:507:VAL:HG22	1:S:542:MET:HE3	1.92	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:U:507:VAL:HG22	1:U:542:MET:HE3	1.92	0.52
1:U:719:GLN:HB3	1:U:731:PRO:HG2	1.92	0.52
1:V:628:LYS:HB2	1:V:650:PRO:HG3	1.91	0.52
1:W:587:VAL:HG11	1:Y:604:ASN:HB3	1.90	0.52
1:W:628:LYS:HB2	1:W:650:PRO:HG3	1.91	0.52
1:X:487:PHE:HD2	1:X:512:LYS:HD2	1.75	0.52
1:X:507:VAL:HG22	1:X:542:MET:HE3	1.92	0.52
1:c:291:ASN:O	1:c:292:ARG:HG3	2.09	0.52
1:c:507:VAL:HG22	1:c:542:MET:HE3	1.92	0.52
1:c:604:ASN:HB3	1:p:587:VAL:HG11	1.91	0.52
1:e:487:PHE:HE2	1:e:512:LYS:HB2	1.74	0.52
1:g:291:ASN:O	1:g:292:ARG:HG3	2.09	0.52
1:i:364:THR:HA	1:k:446:GLN:HA	1.92	0.52
1:m:446:GLN:HA	1:n:364:THR:HA	1.92	0.52
1:n:487:PHE:HE2	1:n:512:LYS:HB2	1.74	0.52
1:o:493:PHE:N	1:o:502:ASN:HD21	2.00	0.52
1:o:507:VAL:HG22	1:o:542:MET:HE3	1.92	0.52
1:p:291:ASN:O	1:p:292:ARG:HG3	2.09	0.52
1:r:507:VAL:HG22	1:r:542:MET:HE3	1.92	0.52
1:r:589:THR:HG1	1:r:599:THR:HG1	1.56	0.52
1:u:719:GLN:HB3	1:u:731:PRO:HG2	1.92	0.52
1:y:487:PHE:HE2	1:y:512:LYS:HB2	1.74	0.52
1:z:291:ASN:O	1:z:292:ARG:HG3	2.09	0.52
1:3:364:THR:HA	1:4:446:GLN:HA	1.92	0.52
1:3:487:PHE:HD2	1:3:512:LYS:HD2	1.75	0.52
1:5:493:PHE:N	1:5:502:ASN:HD21	2.00	0.52
1:5:719:GLN:HB3	1:5:731:PRO:HG2	1.92	0.52
1:7:419:TYR:OH	1:7:649:HIS:O	2.24	0.52
1:7:487:PHE:HE2	1:7:512:LYS:HB2	1.74	0.52
1:A:291:ASN:O	1:A:292:ARG:HG3	2.09	0.52
1:A:487:PHE:HE2	1:A:512:LYS:HB2	1.74	0.52
1:D:587:VAL:HG11	1:N:604:ASN:HB3	1.90	0.52
1:E:587:VAL:HG11	1:Q:604:ASN:HB3	1.90	0.52
1:F:604:ASN:HB3	1:Q:587:VAL:HG11	1.90	0.52
1:H:628:LYS:HB2	1:H:650:PRO:HG3	1.91	0.52
1:O:289:ASP:O	1:O:367:THR:HA	2.08	0.52
1:P:719:GLN:HB3	1:P:731:PRO:HG2	1.92	0.52
1:Q:487:PHE:HE2	1:Q:512:LYS:HB2	1.74	0.52
1:S:487:PHE:HD2	1:S:512:LYS:HD2	1.75	0.52
1:T:446:GLN:HA	1:d:364:THR:HA	1.92	0.52
1:T:587:VAL:HG11	1:d:604:ASN:HB3	1.91	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:T:604:ASN:HB3	1:l:587:VAL:HG11	1.90	0.52
1:V:419:TYR:OH	1:V:649:HIS:O	2.24	0.52
1:V:719:GLN:HB3	1:V:731:PRO:HG2	1.91	0.52
1:a:487:PHE:HD2	1:a:512:LYS:HD2	1.75	0.52
1:a:719:GLN:HB3	1:a:731:PRO:HG2	1.92	0.52
1:c:487:PHE:HE2	1:c:512:LYS:HB2	1.74	0.52
1:e:507:VAL:HG22	1:e:542:MET:HE3	1.92	0.52
1:f:487:PHE:HE2	1:f:512:LYS:HB2	1.74	0.52
1:f:487:PHE:HD2	1:f:512:LYS:HD2	1.75	0.52
1:h:231:SER:HB2	1:h:323:ASN:H	1.73	0.52
1:i:604:ASN:HB3	1:k:587:VAL:HG11	1.90	0.52
1:j:719:GLN:HB3	1:j:731:PRO:HG2	1.92	0.52
1:k:291:ASN:O	1:k:292:ARG:HG3	2.09	0.52
1:k:507:VAL:HG22	1:k:542:MET:HE3	1.92	0.52
1:o:487:PHE:HD2	1:o:512:LYS:HD2	1.75	0.52
1:w:291:ASN:O	1:w:292:ARG:HG3	2.09	0.52
1:x:487:PHE:HE2	1:x:512:LYS:HB2	1.74	0.52
1:x:587:VAL:HG11	1:y:604:ASN:HB3	1.91	0.52
1:y:409:LEU:HD11	1:y:415:PHE:HB2	1.91	0.52
1:3:487:PHE:HE2	1:3:512:LYS:HB2	1.74	0.52
1:3:503:ASN:OD1	1:3:504:VAL:N	2.43	0.52
1:3:604:ASN:HB3	1:4:587:VAL:HG11	1.90	0.52
1:4:719:GLN:HB3	1:4:731:PRO:HG2	1.92	0.52
1:5:291:ASN:O	1:5:292:ARG:HG3	2.09	0.52
1:6:587:VAL:HG11	1:7:604:ASN:HB3	1.90	0.52
1:7:719:GLN:HB3	1:7:731:PRO:HG2	1.92	0.52
1:B:628:LYS:HB2	1:B:650:PRO:HG3	1.91	0.52
1:G:587:VAL:HG11	1:I:604:ASN:HB3	1.91	0.52
1:H:719:GLN:HB3	1:H:731:PRO:HG2	1.92	0.52
1:K:364:THR:HA	1:8:446:GLN:HA	1.92	0.52
1:K:587:VAL:HG11	1:a:604:ASN:HB3	1.90	0.52
1:L:291:ASN:O	1:L:292:ARG:HG3	2.09	0.52
1:M:604:ASN:HB3	1:b:587:VAL:HG11	1.91	0.52
1:N:446:GLN:HA	1:P:364:THR:HA	1.92	0.52
1:O:503:ASN:OD1	1:O:504:VAL:N	2.43	0.52
1:O:587:VAL:HG11	1:m:604:ASN:HB3	1.91	0.52
1:O:719:GLN:HB3	1:O:731:PRO:HG2	1.92	0.52
1:S:503:ASN:OD1	1:S:504:VAL:N	2.43	0.52
1:Y:409:LEU:HD11	1:Y:415:PHE:HB2	1.91	0.52
1:Y:628:LYS:HB2	1:Y:650:PRO:HG3	1.91	0.52
1:a:290:TYR:OH	1:a:317:MET:SD	2.56	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:a:487:PHE:HE2	1:a:512:LYS:HB2	1.74	0.52
1:d:487:PHE:HE2	1:d:512:LYS:HB2	1.74	0.52
1:e:291:ASN:O	1:e:292:ARG:HG3	2.09	0.52
1:f:587:VAL:HG11	1:h:604:ASN:HB3	1.91	0.52
1:j:291:ASN:O	1:j:292:ARG:HG3	2.09	0.52
1:l:289:ASP:O	1:l:367:THR:HA	2.08	0.52
1:l:503:ASN:OD1	1:l:504:VAL:N	2.43	0.52
1:m:628:LYS:HB2	1:m:650:PRO:HG3	1.91	0.52
1:n:507:VAL:HG22	1:n:542:MET:HE3	1.92	0.52
1:n:719:GLN:HB3	1:n:731:PRO:HG2	1.92	0.52
1:p:628:LYS:HB2	1:p:650:PRO:HG3	1.91	0.52
1:q:604:ASN:HB3	1:s:587:VAL:HG11	1.90	0.52
1:r:409:LEU:HD11	1:r:415:PHE:HB2	1.91	0.52
1:r:503:ASN:OD1	1:r:504:VAL:N	2.43	0.52
1:s:327:LYS:HZ3	1:s:340:ASN:HB3	1.74	0.52
1:s:507:VAL:HG22	1:s:542:MET:HE3	1.92	0.52
1:t:446:GLN:HA	1:u:364:THR:HA	1.92	0.52
1:u:487:PHE:HD2	1:u:512:LYS:HD2	1.75	0.52
1:x:327:LYS:HZ3	1:x:340:ASN:HB3	1.74	0.52
1:z:587:VAL:HG11	1:1:604:ASN:HB3	1.90	0.52
1:2:291:ASN:O	1:2:292:ARG:HG3	2.09	0.52
1:3:719:GLN:HB3	1:3:731:PRO:HG2	1.92	0.52
1:7:409:LEU:HD11	1:7:415:PHE:HB2	1.91	0.52
1:B:587:VAL:HG22	1:J:487:PHE:CZ	2.44	0.52
1:D:291:ASN:O	1:D:292:ARG:HG3	2.09	0.52
1:G:446:GLN:HA	1:I:364:THR:HA	1.92	0.52
1:J:291:ASN:O	1:J:292:ARG:HG3	2.09	0.52
1:J:487:PHE:HD2	1:J:512:LYS:HD2	1.75	0.52
1:N:487:PHE:HD2	1:N:512:LYS:HD2	1.75	0.52
1:R:604:ASN:HB3	1:U:587:VAL:HG11	1.90	0.52
1:T:231:SER:HB2	1:T:323:ASN:H	1.73	0.52
1:T:507:VAL:HG22	1:T:542:MET:HE3	1.92	0.52
1:X:364:THR:HA	1:e:446:GLN:HA	1.92	0.52
1:Z:446:GLN:HA	1:4:364:THR:HA	1.92	0.52
1:Z:589:THR:HG1	1:Z:599:THR:HG1	1.55	0.52
1:c:487:PHE:HD2	1:c:512:LYS:HD2	1.75	0.52
1:d:487:PHE:HD2	1:d:512:LYS:HD2	1.75	0.52
1:d:507:VAL:HG22	1:d:542:MET:HE3	1.92	0.52
1:d:719:GLN:HB3	1:d:731:PRO:HG2	1.92	0.52
1:h:719:GLN:HB3	1:h:731:PRO:HG2	1.92	0.52
1:i:487:PHE:HE2	1:i:512:LYS:HB2	1.74	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:l:719:GLN:HB3	1:l:731:PRO:HG2	1.92	0.52
1:r:719:GLN:HB3	1:r:731:PRO:HG2	1.92	0.52
1:t:487:PHE:HD2	1:t:512:LYS:HD2	1.75	0.52
1:1:587:VAL:HG22	1:2:487:PHE:CZ	2.44	0.52
1:4:493:PHE:N	1:4:502:ASN:HD21	2.00	0.52
1:A:364:THR:HA	1:I:446:GLN:HA	1.92	0.51
1:C:364:THR:HA	1:M:446:GLN:HA	1.92	0.51
1:C:507:VAL:HG22	1:C:542:MET:HE3	1.92	0.51
1:G:487:PHE:HD2	1:G:512:LYS:HD2	1.75	0.51
1:G:628:LYS:HB2	1:G:650:PRO:HG3	1.91	0.51
1:H:291:ASN:O	1:H:292:ARG:HG3	2.09	0.51
1:H:493:PHE:N	1:H:502:ASN:HD21	2.00	0.51
1:M:364:THR:HA	1:b:446:GLN:HA	1.92	0.51
1:M:719:GLN:HB3	1:M:731:PRO:HG2	1.92	0.51
1:O:446:GLN:HA	1:m:364:THR:HA	1.92	0.51
1:S:719:GLN:HB3	1:S:731:PRO:HG2	1.92	0.51
1:T:719:GLN:HB3	1:T:731:PRO:HG2	1.92	0.51
1:X:493:PHE:N	1:X:502:ASN:HD21	2.00	0.51
1:Z:409:LEU:HD11	1:Z:415:PHE:HB2	1.91	0.51
1:c:446:GLN:HA	1:o:364:THR:HA	1.92	0.51
1:e:487:PHE:HD2	1:e:512:LYS:HD2	1.75	0.51
1:i:487:PHE:HD2	1:i:512:LYS:HD2	1.75	0.51
1:l:507:VAL:HG22	1:l:542:MET:HE3	1.92	0.51
1:m:507:VAL:HG22	1:m:542:MET:HE3	1.92	0.51
1:o:487:PHE:HE2	1:o:512:LYS:HB2	1.74	0.51
1:p:719:GLN:HB3	1:p:731:PRO:HG2	1.92	0.51
1:s:290:TYR:OH	1:s:317:MET:SD	2.56	0.51
1:t:290:TYR:OH	1:t:317:MET:SD	2.56	0.51
1:u:446:GLN:HA	1:v:364:THR:HA	1.92	0.51
1:v:291:ASN:O	1:v:292:ARG:HG3	2.09	0.51
1:3:507:VAL:HG22	1:3:542:MET:HE3	1.92	0.51
1:5:628:LYS:HB2	1:5:650:PRO:HG3	1.91	0.51
1:7:628:LYS:HB2	1:7:650:PRO:HG3	1.91	0.51
1:8:409:LEU:HD11	1:8:415:PHE:HB2	1.91	0.51
1:N:487:PHE:HE2	1:N:512:LYS:HB2	1.74	0.51
1:O:507:VAL:HG22	1:O:542:MET:HE3	1.92	0.51
1:Q:503:ASN:OD1	1:Q:504:VAL:N	2.43	0.51
1:R:446:GLN:HA	1:S:364:THR:HA	1.92	0.51
1:S:409:LEU:HD11	1:S:415:PHE:HB2	1.91	0.51
1:W:327:LYS:HZ3	1:W:340:ASN:HB3	1.75	0.51
1:X:327:LYS:HZ3	1:X:340:ASN:HB3	1.75	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:X:487:PHE:HE2	1:X:512:LYS:HB2	1.74	0.51
1:a:446:GLN:HA	1:8:364:THR:HA	1.93	0.51
1:b:487:PHE:HE2	1:b:512:LYS:HB2	1.74	0.51
1:b:719:GLN:HB3	1:b:731:PRO:HG2	1.92	0.51
1:e:503:ASN:OD1	1:e:504:VAL:N	2.43	0.51
1:f:628:LYS:HB2	1:f:650:PRO:HG3	1.91	0.51
1:f:719:GLN:HB3	1:f:731:PRO:HG2	1.92	0.51
1:g:364:THR:HA	1:h:446:GLN:HA	1.92	0.51
1:g:507:VAL:HG22	1:g:542:MET:HE3	1.92	0.51
1:i:446:GLN:HA	1:j:364:THR:HA	1.93	0.51
1:n:487:PHE:HD2	1:n:512:LYS:HD2	1.75	0.51
1:o:628:LYS:HB2	1:o:650:PRO:HG3	1.91	0.51
1:v:290:TYR:OH	1:v:317:MET:SD	2.56	0.51
1:v:487:PHE:HD2	1:v:512:LYS:HD2	1.75	0.51
1:z:719:GLN:HB3	1:z:731:PRO:HG2	1.92	0.51
1:1:628:LYS:HB2	1:1:650:PRO:HG3	1.91	0.51
1:2:487:PHE:HD2	1:2:512:LYS:HD2	1.75	0.51
1:4:507:VAL:HG22	1:4:542:MET:HE3	1.92	0.51
1:A:487:PHE:HD2	1:A:512:LYS:HD2	1.75	0.51
1:G:719:GLN:HB3	1:G:731:PRO:HG2	1.92	0.51
1:J:487:PHE:HE2	1:J:512:LYS:HB2	1.74	0.51
1:K:503:ASN:OD1	1:K:504:VAL:N	2.43	0.51
1:K:507:VAL:HG22	1:K:542:MET:HE3	1.92	0.51
1:L:719:GLN:HB3	1:L:731:PRO:HG2	1.92	0.51
1:N:327:LYS:HZ3	1:N:340:ASN:HB3	1.74	0.51
1:N:717:ASP:OD1	1:m:265:ARG:NE	2.43	0.51
1:R:487:PHE:HD2	1:R:512:LYS:HD2	1.75	0.51
1:R:487:PHE:HE2	1:R:512:LYS:HB2	1.74	0.51
1:R:507:VAL:HG22	1:R:542:MET:HE3	1.92	0.51
1:S:487:PHE:HE2	1:S:512:LYS:HB2	1.74	0.51
1:T:327:LYS:HZ3	1:T:340:ASN:HB3	1.74	0.51
1:U:487:PHE:HD2	1:U:512:LYS:HD2	1.75	0.51
1:X:628:LYS:HB2	1:X:650:PRO:HG3	1.91	0.51
1:Z:364:THR:HA	1:3:446:GLN:HA	1.93	0.51
1:a:291:ASN:O	1:a:292:ARG:HG3	2.09	0.51
1:a:507:VAL:HG22	1:a:542:MET:HE3	1.92	0.51
1:c:503:ASN:OD1	1:c:504:VAL:N	2.43	0.51
1:c:587:VAL:HG11	1:o:604:ASN:HB3	1.91	0.51
1:d:409:LEU:HD11	1:d:415:PHE:HB2	1.91	0.51
1:m:231:SER:HB2	1:m:323:ASN:H	1.73	0.51
1:m:719:GLN:HB3	1:m:731:PRO:HG2	1.92	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:o:327:LYS:HZ3	1:o:340:ASN:HB3	1.75	0.51
1:s:487:PHE:HD2	1:s:512:LYS:HD2	1.75	0.51
1:t:431:ALA:HB3	1:t:740:THR:HG22	1.93	0.51
1:t:628:LYS:HB2	1:t:650:PRO:HG3	1.92	0.51
1:u:431:ALA:HB3	1:u:740:THR:HG22	1.93	0.51
1:u:628:LYS:HB2	1:u:650:PRO:HG3	1.91	0.51
1:x:291:ASN:O	1:x:292:ARG:HG3	2.09	0.51
1:2:487:PHE:HE2	1:2:512:LYS:HB2	1.74	0.51
1:4:503:ASN:OD1	1:4:504:VAL:N	2.43	0.51
1:B:604:ASN:HB3	1:L:587:VAL:HG11	1.91	0.51
1:C:409:LEU:HD11	1:C:415:PHE:HB2	1.91	0.51
1:D:628:LYS:HB2	1:D:650:PRO:HG3	1.91	0.51
1:E:487:PHE:HD2	1:E:512:LYS:HD2	1.75	0.51
1:G:431:ALA:HB3	1:G:740:THR:HG22	1.93	0.51
1:I:409:LEU:HD11	1:I:415:PHE:HB2	1.91	0.51
1:I:431:ALA:HB3	1:I:740:THR:HG22	1.93	0.51
1:J:628:LYS:HB2	1:J:650:PRO:HG3	1.91	0.51
1:P:507:VAL:HG22	1:P:542:MET:HE3	1.92	0.51
1:Q:291:ASN:O	1:Q:292:ARG:HG3	2.09	0.51
1:U:409:LEU:HD11	1:U:415:PHE:HB2	1.91	0.51
1:W:446:GLN:HA	1:Y:364:THR:HA	1.92	0.51
1:a:409:LEU:HD11	1:a:415:PHE:HB2	1.91	0.51
1:b:628:LYS:HB2	1:b:650:PRO:HG3	1.91	0.51
1:f:446:GLN:HA	1:h:364:THR:HA	1.92	0.51
1:g:409:LEU:HD11	1:g:415:PHE:HB2	1.91	0.51
1:q:446:GLN:HA	1:r:364:THR:HA	1.93	0.51
1:q:487:PHE:HE2	1:q:512:LYS:HB2	1.74	0.51
1:r:487:PHE:HE2	1:r:512:LYS:HB2	1.74	0.51
1:s:409:LEU:HD11	1:s:415:PHE:HB2	1.91	0.51
1:t:409:LEU:HD11	1:t:415:PHE:HB2	1.91	0.51
1:t:719:GLN:HB3	1:t:731:PRO:HG2	1.92	0.51
1:v:503:ASN:OD1	1:v:504:VAL:N	2.43	0.51
1:w:487:PHE:HD2	1:w:512:LYS:HD2	1.75	0.51
1:x:503:ASN:OD1	1:x:504:VAL:N	2.43	0.51
1:1:719:GLN:HB3	1:1:731:PRO:HG2	1.91	0.51
1:3:291:ASN:O	1:3:292:ARG:HG3	2.09	0.51
1:7:431:ALA:HB3	1:7:740:THR:HG22	1.93	0.51
1:A:431:ALA:HB3	1:A:740:THR:HG22	1.93	0.51
1:B:364:THR:HA	1:L:446:GLN:HA	1.92	0.51
1:G:409:LEU:HD11	1:G:415:PHE:HB2	1.91	0.51
1:I:628:LYS:HB2	1:I:650:PRO:HG3	1.91	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:493:PHE:N	1:K:502:ASN:HD21	2.00	0.51
1:L:431:ALA:HB3	1:L:740:THR:HG22	1.93	0.51
1:S:291:ASN:O	1:S:292:ARG:HG3	2.09	0.51
1:V:364:THR:HA	1:X:446:GLN:HA	1.92	0.51
1:V:409:LEU:HD11	1:V:415:PHE:HB2	1.91	0.51
1:Y:431:ALA:HB3	1:Y:740:THR:HG22	1.93	0.51
1:i:503:ASN:OD1	1:i:504:VAL:N	2.43	0.51
1:j:446:GLN:HA	1:k:364:THR:HA	1.92	0.51
1:j:507:VAL:HG22	1:j:542:MET:HE3	1.92	0.51
1:p:409:LEU:HD11	1:p:415:PHE:HB2	1.91	0.51
1:q:589:THR:HG1	1:q:599:THR:HG1	1.59	0.51
1:r:291:ASN:O	1:r:292:ARG:HG3	2.09	0.51
1:v:431:ALA:HB3	1:v:740:THR:HG22	1.93	0.51
1:w:503:ASN:OD1	1:w:504:VAL:N	2.43	0.51
1:w:719:GLN:HB3	1:w:731:PRO:HG2	1.92	0.51
1:1:487:PHE:HE2	1:1:512:LYS:HB2	1.74	0.51
1:1:493:PHE:N	1:1:502:ASN:HD21	2.00	0.51
1:3:409:LEU:HD11	1:3:415:PHE:HB2	1.91	0.51
1:3:431:ALA:HB3	1:3:740:THR:HG22	1.93	0.51
1:8:719:GLN:HB3	1:8:731:PRO:HG2	1.92	0.51
1:A:503:ASN:OD1	1:A:504:VAL:N	2.43	0.51
1:B:409:LEU:HD11	1:B:415:PHE:HB2	1.91	0.51
1:B:487:PHE:HE2	1:B:512:LYS:HB2	1.74	0.51
1:B:493:PHE:N	1:B:502:ASN:HD21	2.00	0.51
1:E:719:GLN:HB3	1:E:731:PRO:HG2	1.92	0.51
1:F:503:ASN:OD1	1:F:504:VAL:N	2.43	0.51
1:J:503:ASN:OD1	1:J:504:VAL:N	2.43	0.51
1:R:503:ASN:OD1	1:R:504:VAL:N	2.43	0.51
1:R:628:LYS:HB2	1:R:650:PRO:HG3	1.91	0.51
1:T:364:THR:HA	1:l:446:GLN:HA	1.92	0.51
1:U:431:ALA:HB3	1:U:740:THR:HG22	1.93	0.51
1:X:604:ASN:HB3	1:e:587:VAL:HG11	1.91	0.51
1:Z:719:GLN:HB3	1:Z:731:PRO:HG2	1.92	0.51
1:b:431:ALA:HB3	1:b:740:THR:HG22	1.93	0.51
1:f:431:ALA:HB3	1:f:740:THR:HG22	1.93	0.51
1:f:700:LYS:HG3	1:h:404:PHE:CE1	2.46	0.51
1:m:587:VAL:HG11	1:n:604:ASN:HB3	1.92	0.51
1:n:409:LEU:HD11	1:n:415:PHE:HB2	1.91	0.51
1:q:487:PHE:HD2	1:q:512:LYS:HD2	1.75	0.51
1:q:503:ASN:OD1	1:q:504:VAL:N	2.43	0.51
1:q:507:VAL:HG22	1:q:542:MET:HE3	1.92	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:s:431:ALA:HB3	1:s:740:THR:HG22	1.93	0.51
1:s:503:ASN:OD1	1:s:504:VAL:N	2.43	0.51
1:u:409:LEU:HD11	1:u:415:PHE:HB2	1.91	0.51
1:y:503:ASN:OD1	1:y:504:VAL:N	2.43	0.51
1:z:431:ALA:HB3	1:z:740:THR:HG22	1.93	0.51
1:z:446:GLN:HA	1:1:364:THR:HA	1.92	0.51
1:2:628:LYS:HB2	1:2:650:PRO:HG3	1.91	0.51
1:4:487:PHE:HD2	1:4:512:LYS:HD2	1.75	0.51
1:6:487:PHE:HD2	1:6:512:LYS:HD2	1.75	0.51
1:A:327:LYS:HZ3	1:A:340:ASN:HB3	1.75	0.51
1:B:719:GLN:HB3	1:B:731:PRO:HG2	1.92	0.51
1:C:719:GLN:HB3	1:C:731:PRO:HG2	1.92	0.51
1:D:364:THR:HA	1:P:446:GLN:HA	1.92	0.51
1:E:503:ASN:OD1	1:E:504:VAL:N	2.43	0.51
1:G:700:LYS:HG3	1:I:404:PHE:CE1	2.46	0.51
1:I:327:LYS:HZ3	1:I:340:ASN:HB3	1.75	0.51
1:N:503:ASN:OD1	1:N:504:VAL:N	2.43	0.51
1:P:503:ASN:OD1	1:P:504:VAL:N	2.43	0.51
1:Q:719:GLN:HB3	1:Q:731:PRO:HG2	1.92	0.51
1:S:446:GLN:HA	1:U:364:THR:HA	1.92	0.51
1:U:503:ASN:OD1	1:U:504:VAL:N	2.43	0.51
1:W:719:GLN:HB3	1:W:731:PRO:HG2	1.92	0.51
1:Y:503:ASN:OD1	1:Y:504:VAL:N	2.43	0.51
1:a:431:ALA:HB3	1:a:740:THR:HG22	1.93	0.51
1:c:493:PHE:N	1:c:502:ASN:HD21	2.00	0.51
1:c:719:GLN:HB3	1:c:731:PRO:HG2	1.92	0.51
1:e:493:PHE:N	1:e:502:ASN:HD21	2.00	0.51
1:j:431:ALA:HB3	1:j:740:THR:HG22	1.93	0.51
1:k:628:LYS:HB2	1:k:650:PRO:HG3	1.91	0.51
1:o:446:GLN:HA	1:p:364:THR:HA	1.92	0.51
1:q:628:LYS:HB2	1:q:650:PRO:HG3	1.91	0.51
1:x:719:GLN:HB3	1:x:731:PRO:HG2	1.92	0.51
1:z:493:PHE:N	1:z:502:ASN:HD21	2.00	0.51
1:1:409:LEU:HD11	1:1:415:PHE:HB2	1.91	0.51
1:5:404:PHE:CE1	1:7:700:LYS:HG3	2.46	0.51
1:6:446:GLN:HA	1:7:364:THR:HA	1.92	0.51
1:7:503:ASN:OD1	1:7:504:VAL:N	2.43	0.51
1:7:507:VAL:HG22	1:7:542:MET:HE3	1.92	0.51
1:A:409:LEU:HD11	1:A:415:PHE:HB2	1.91	0.51
1:B:431:ALA:HB3	1:B:740:THR:HG22	1.93	0.51
1:C:628:LYS:HB2	1:C:650:PRO:HG3	1.91	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:290:TYR:OH	1:J:317:MET:SD	2.56	0.51
1:K:487:PHE:HD2	1:K:512:LYS:HD2	1.75	0.51
1:P:431:ALA:HB3	1:P:740:THR:HG22	1.93	0.51
1:R:370:PRO:HD3	1:R:552:VAL:HG21	1.93	0.51
1:W:431:ALA:HB3	1:W:740:THR:HG22	1.93	0.51
1:Y:507:VAL:HG22	1:Y:542:MET:HE3	1.92	0.51
1:c:700:LYS:HG3	1:o:404:PHE:CE1	2.46	0.51
1:d:446:GLN:HA	1:l:364:THR:HA	1.92	0.51
1:d:503:ASN:OD1	1:d:504:VAL:N	2.43	0.51
1:e:719:GLN:HB3	1:e:731:PRO:HG2	1.92	0.51
1:g:719:GLN:HB3	1:g:731:PRO:HG2	1.92	0.51
1:j:503:ASN:OD1	1:j:504:VAL:N	2.43	0.51
1:q:370:PRO:HD3	1:q:552:VAL:HG21	1.93	0.51
1:r:446:GLN:HA	1:s:364:THR:HA	1.92	0.51
1:v:719:GLN:HB3	1:v:731:PRO:HG2	1.92	0.51
1:1:431:ALA:HB3	1:1:740:THR:HG22	1.93	0.51
1:2:503:ASN:OD1	1:2:504:VAL:N	2.43	0.51
1:6:431:ALA:HB3	1:6:740:THR:HG22	1.93	0.51
1:6:719:GLN:HB3	1:6:731:PRO:HG2	1.92	0.51
1:A:719:GLN:HB3	1:A:731:PRO:HG2	1.92	0.51
1:D:409:LEU:HD11	1:D:415:PHE:HB2	1.91	0.51
1:M:404:PHE:CE1	1:b:700:LYS:HG3	2.46	0.51
1:M:487:PHE:HE2	1:M:512:LYS:HB2	1.74	0.51
1:O:364:THR:HA	1:n:446:GLN:HA	1.93	0.51
1:O:431:ALA:HB3	1:O:740:THR:HG22	1.93	0.51
1:P:487:PHE:HD2	1:P:512:LYS:HD2	1.75	0.51
1:W:487:PHE:HD2	1:W:512:LYS:HD2	1.75	0.51
1:Z:487:PHE:HD2	1:Z:512:LYS:HD2	1.75	0.51
1:Z:628:LYS:HB2	1:Z:650:PRO:HG3	1.91	0.51
1:i:370:PRO:HD3	1:i:552:VAL:HG21	1.93	0.51
1:k:409:LEU:HD11	1:k:415:PHE:HB2	1.91	0.51
1:l:431:ALA:HB3	1:l:740:THR:HG22	1.93	0.51
1:n:503:ASN:OD1	1:n:504:VAL:N	2.43	0.51
1:o:431:ALA:HB3	1:o:740:THR:HG22	1.93	0.51
1:t:700:LYS:HG3	1:u:404:PHE:CE1	2.46	0.51
1:8:628:LYS:HB2	1:8:650:PRO:HG3	1.91	0.51
1:B:507:VAL:HG22	1:B:542:MET:HE3	1.92	0.51
1:C:446:GLN:HA	1:b:364:THR:HA	1.92	0.51
1:E:431:ALA:HB3	1:E:740:THR:HG22	1.93	0.51
1:E:446:GLN:HA	1:Q:364:THR:HA	1.92	0.51
1:H:404:PHE:CE1	1:Y:700:LYS:HG3	2.46	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:452:SER:O	1:W:507:VAL:HG23	2.11	0.51
1:H:507:VAL:HG22	1:H:542:MET:HE3	1.92	0.51
1:M:370:PRO:HD3	1:M:552:VAL:HG21	1.93	0.51
1:N:370:PRO:HD3	1:N:552:VAL:HG21	1.93	0.51
1:O:404:PHE:CE1	1:n:700:LYS:HG3	2.46	0.51
1:R:700:LYS:HG3	1:S:404:PHE:CE1	2.46	0.51
1:X:404:PHE:CE1	1:e:700:LYS:HG3	2.46	0.51
1:X:431:ALA:HB3	1:X:740:THR:HG22	1.93	0.51
1:b:503:ASN:OD1	1:b:504:VAL:N	2.43	0.51
1:d:700:LYS:HG3	1:l:404:PHE:CE1	2.47	0.51
1:g:487:PHE:HD2	1:g:512:LYS:HD2	1.75	0.51
1:g:628:LYS:HB2	1:g:650:PRO:HG3	1.91	0.51
1:h:487:PHE:HE2	1:h:512:LYS:HB2	1.74	0.51
1:j:487:PHE:HD2	1:j:512:LYS:HD2	1.75	0.51
1:m:487:PHE:HD2	1:m:512:LYS:HD2	1.75	0.51
1:q:700:LYS:HG3	1:r:404:PHE:CE1	2.46	0.51
1:v:409:LEU:HD11	1:v:415:PHE:HB2	1.91	0.51
1:1:507:VAL:HG22	1:1:542:MET:HE3	1.92	0.51
1:4:431:ALA:HB3	1:4:740:THR:HG22	1.93	0.51
1:5:452:SER:O	1:6:507:VAL:HG23	2.11	0.51
1:8:487:PHE:HD2	1:8:512:LYS:HD2	1.75	0.51
1:C:700:LYS:HG3	1:b:404:PHE:CE1	2.46	0.50
1:D:493:PHE:N	1:D:502:ASN:HD21	2.00	0.50
1:H:364:THR:HA	1:Y:446:GLN:HA	1.93	0.50
1:K:431:ALA:HB3	1:K:740:THR:HG22	1.93	0.50
1:O:452:SER:O	1:m:507:VAL:HG23	2.11	0.50
1:T:487:PHE:HD2	1:T:512:LYS:HD2	1.75	0.50
1:V:452:SER:O	1:e:507:VAL:HG23	2.11	0.50
1:W:452:SER:O	1:Y:507:VAL:HG23	2.11	0.50
1:Z:507:VAL:HG22	1:Z:542:MET:HE3	1.92	0.50
1:b:456:GLN:NE2	1:b:459:SER:O	2.44	0.50
1:e:290:TYR:OH	1:e:317:MET:SD	2.56	0.50
1:f:364:THR:HA	1:g:446:GLN:HA	1.92	0.50
1:f:456:GLN:NE2	1:f:459:SER:O	2.44	0.50
1:g:503:ASN:OD1	1:g:504:VAL:N	2.43	0.50
1:h:370:PRO:HD3	1:h:552:VAL:HG21	1.93	0.50
1:h:503:ASN:OD1	1:h:504:VAL:N	2.43	0.50
1:i:719:GLN:HB3	1:i:731:PRO:HG2	1.92	0.50
1:j:700:LYS:HG3	1:k:404:PHE:CE1	2.46	0.50
1:m:503:ASN:OD1	1:m:504:VAL:N	2.43	0.50
1:p:431:ALA:HB3	1:p:740:THR:HG22	1.93	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:w:446:GLN:HA	1:x:364:THR:HA	1.92	0.50
1:z:404:PHE:CE1	1:2:700:LYS:HG3	2.46	0.50
1:3:404:PHE:CE1	1:4:700:LYS:HG3	2.46	0.50
1:5:327:LYS:HZ3	1:5:340:ASN:HB3	1.75	0.50
1:5:503:ASN:OD1	1:5:504:VAL:N	2.43	0.50
1:5:507:VAL:HG22	1:5:542:MET:HE3	1.92	0.50
1:6:452:SER:O	1:7:507:VAL:HG23	2.11	0.50
1:8:327:LYS:HZ3	1:8:340:ASN:HB3	1.75	0.50
1:D:404:PHE:CE1	1:P:700:LYS:HG3	2.46	0.50
1:E:364:THR:HA	1:F:446:GLN:HA	1.92	0.50
1:K:700:LYS:HG3	1:a:404:PHE:CE1	2.46	0.50
1:L:493:PHE:N	1:L:502:ASN:HD21	2.00	0.50
1:N:719:GLN:HB3	1:N:731:PRO:HG2	1.92	0.50
1:R:431:ALA:HB3	1:R:740:THR:HG22	1.93	0.50
1:T:431:ALA:HB3	1:T:740:THR:HG22	1.93	0.50
1:V:404:PHE:CE1	1:X:700:LYS:HG3	2.46	0.50
1:V:431:ALA:HB3	1:V:740:THR:HG22	1.93	0.50
1:Z:327:LYS:HZ3	1:Z:340:ASN:HB3	1.75	0.50
1:f:503:ASN:OD1	1:f:504:VAL:N	2.43	0.50
1:f:507:VAL:HG23	1:g:452:SER:O	2.12	0.50
1:h:507:VAL:HG22	1:h:542:MET:HE3	1.92	0.50
1:l:628:LYS:HB2	1:l:650:PRO:HG3	1.91	0.50
1:m:327:LYS:HZ3	1:m:340:ASN:HB3	1.75	0.50
1:m:431:ALA:HB3	1:m:740:THR:HG22	1.93	0.50
1:p:493:PHE:N	1:p:502:ASN:HD21	2.00	0.50
1:p:507:VAL:HG22	1:p:542:MET:HE3	1.92	0.50
1:q:404:PHE:CE1	1:s:700:LYS:HG3	2.46	0.50
1:q:431:ALA:HB3	1:q:740:THR:HG22	1.93	0.50
1:q:493:PHE:N	1:q:502:ASN:HD21	2.00	0.50
1:w:364:THR:HA	1:y:446:GLN:HA	1.92	0.50
1:w:507:VAL:HG23	1:y:452:SER:O	2.12	0.50
1:5:364:THR:HA	1:7:446:GLN:HA	1.93	0.50
1:A:446:GLN:HA	1:G:364:THR:HA	1.92	0.50
1:C:487:PHE:HD2	1:C:512:LYS:HD2	1.75	0.50
1:C:503:ASN:OD1	1:C:504:VAL:N	2.43	0.50
1:D:503:ASN:OD1	1:D:504:VAL:N	2.43	0.50
1:D:719:GLN:HB3	1:D:731:PRO:HG2	1.92	0.50
1:E:507:VAL:HG23	1:F:452:SER:O	2.12	0.50
1:H:327:LYS:HZ3	1:H:340:ASN:HB3	1.75	0.50
1:H:503:ASN:OD1	1:H:504:VAL:N	2.43	0.50
1:J:507:VAL:HG22	1:J:542:MET:HE3	1.92	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:700:LYS:HG3	1:L:404:PHE:CE1	2.47	0.50
1:J:719:GLN:HB3	1:J:731:PRO:HG2	1.92	0.50
1:K:404:PHE:CE1	1:8:700:LYS:HG3	2.47	0.50
1:M:456:GLN:NE2	1:M:459:SER:O	2.44	0.50
1:M:503:ASN:OD1	1:M:504:VAL:N	2.43	0.50
1:M:507:VAL:HG22	1:M:542:MET:HE3	1.92	0.50
1:O:628:LYS:HB2	1:O:650:PRO:HG3	1.91	0.50
1:R:404:PHE:CE1	1:U:700:LYS:HG3	2.46	0.50
1:T:452:SER:O	1:d:507:VAL:HG23	2.11	0.50
1:T:507:VAL:HG23	1:l:452:SER:O	2.12	0.50
1:V:370:PRO:HD3	1:V:552:VAL:HG21	1.93	0.50
1:V:446:GLN:HA	1:e:364:THR:HA	1.92	0.50
1:V:507:VAL:HG22	1:V:542:MET:HE3	1.92	0.50
1:W:370:PRO:HD3	1:W:552:VAL:HG21	1.93	0.50
1:Z:700:LYS:HG3	1:4:404:PHE:CE1	2.47	0.50
1:c:507:VAL:HG23	1:p:452:SER:O	2.12	0.50
1:i:700:LYS:HG3	1:j:404:PHE:CE1	2.46	0.50
1:o:700:LYS:HG3	1:p:404:PHE:CE1	2.47	0.50
1:y:507:VAL:HG22	1:y:542:MET:HE3	1.92	0.50
1:1:452:SER:O	1:2:507:VAL:HG23	2.12	0.50
1:2:507:VAL:HG22	1:2:542:MET:HE3	1.92	0.50
1:6:370:PRO:HD3	1:6:552:VAL:HG21	1.93	0.50
1:C:452:SER:O	1:b:507:VAL:HG23	2.12	0.50
1:F:431:ALA:HB3	1:F:740:THR:HG22	1.93	0.50
1:F:507:VAL:HG22	1:F:542:MET:HE3	1.92	0.50
1:J:452:SER:O	1:L:507:VAL:HG23	2.12	0.50
1:O:370:PRO:HD3	1:O:552:VAL:HG21	1.93	0.50
1:S:700:LYS:HG3	1:U:404:PHE:CE1	2.46	0.50
1:T:503:ASN:OD1	1:T:504:VAL:N	2.43	0.50
1:W:700:LYS:HG3	1:Y:404:PHE:CE1	2.46	0.50
1:X:456:GLN:NE2	1:X:459:SER:O	2.44	0.50
1:c:404:PHE:CE1	1:p:700:LYS:HG3	2.46	0.50
1:k:431:ALA:HB3	1:k:740:THR:HG22	1.93	0.50
1:k:503:ASN:OD1	1:k:504:VAL:N	2.43	0.50
1:k:719:GLN:HB3	1:k:731:PRO:HG2	1.92	0.50
1:l:370:PRO:HD3	1:l:552:VAL:HG21	1.93	0.50
1:o:456:GLN:NE2	1:o:459:SER:O	2.44	0.50
1:p:370:PRO:HD3	1:p:552:VAL:HG21	1.93	0.50
1:u:327:LYS:HZ3	1:u:340:ASN:HB3	1.76	0.50
1:w:431:ALA:HB3	1:w:740:THR:HG22	1.93	0.50
1:y:431:ALA:HB3	1:y:740:THR:HG22	1.93	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:z:700:LYS:HG3	1:1:404:PHE:CE1	2.46	0.50
1:1:327:LYS:HZ3	1:1:340:ASN:HB3	1.76	0.50
1:8:507:VAL:HG22	1:8:542:MET:HE3	1.92	0.50
1:B:452:SER:O	1:J:507:VAL:HG23	2.12	0.50
1:C:493:PHE:N	1:C:502:ASN:HD21	2.00	0.50
1:D:431:ALA:HB3	1:D:740:THR:HG22	1.93	0.50
1:E:404:PHE:CE1	1:F:700:LYS:HG3	2.47	0.50
1:E:452:SER:O	1:Q:507:VAL:HG23	2.12	0.50
1:F:487:PHE:HD2	1:F:512:LYS:HD2	1.75	0.50
1:W:503:ASN:OD1	1:W:504:VAL:N	2.43	0.50
1:a:452:SER:O	1:8:507:VAL:HG23	2.12	0.50
1:f:404:PHE:CE1	1:g:700:LYS:HG3	2.47	0.50
1:g:493:PHE:N	1:g:502:ASN:HD21	2.00	0.50
1:h:456:GLN:NE2	1:h:459:SER:O	2.44	0.50
1:k:589:THR:HG1	1:k:599:THR:HG1	1.59	0.50
1:r:700:LYS:HG3	1:s:404:PHE:CE1	2.47	0.50
1:t:364:THR:HA	1:v:446:GLN:HA	1.92	0.50
1:u:700:LYS:HG3	1:v:404:PHE:CE1	2.47	0.50
1:z:452:SER:O	1:1:507:VAL:HG23	2.11	0.50
1:5:370:PRO:HD3	1:5:552:VAL:HG21	1.93	0.50
1:6:700:LYS:HG3	1:7:404:PHE:CE1	2.46	0.50
1:D:370:PRO:HD3	1:D:552:VAL:HG21	1.93	0.50
1:D:452:SER:O	1:N:507:VAL:HG23	2.12	0.50
1:H:370:PRO:HD3	1:H:552:VAL:HG21	1.93	0.50
1:N:700:LYS:HG3	1:P:404:PHE:CE1	2.46	0.50
1:R:493:PHE:N	1:R:502:ASN:HD21	2.00	0.50
1:V:493:PHE:N	1:V:502:ASN:HD21	2.00	0.50
1:V:549:SER:OG	1:X:449:TRP:NE1	2.30	0.50
1:Y:327:LYS:HZ3	1:Y:340:ASN:HB3	1.77	0.50
1:Z:370:PRO:HD3	1:Z:552:VAL:HG21	1.93	0.50
1:Z:507:VAL:HG23	1:3:452:SER:O	2.12	0.50
1:c:364:THR:HA	1:p:446:GLN:HA	1.92	0.50
1:c:431:ALA:HB3	1:c:740:THR:HG22	1.93	0.50
1:d:370:PRO:HD3	1:d:552:VAL:HG21	1.93	0.50
1:j:452:SER:O	1:k:507:VAL:HG23	2.11	0.50
1:o:449:TRP:NE1	1:p:549:SER:OG	2.30	0.50
1:w:404:PHE:CE1	1:y:700:LYS:HG3	2.47	0.50
1:w:452:SER:O	1:x:507:VAL:HG23	2.12	0.50
1:x:370:PRO:HD3	1:x:552:VAL:HG21	1.93	0.50
1:y:487:PHE:HD2	1:y:512:LYS:HD2	1.75	0.50
1:z:507:VAL:HG23	1:2:452:SER:O	2.12	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:2:719:GLN:HB3	1:2:731:PRO:HG2	1.92	0.50
1:B:404:PHE:CE1	1:L:700:LYS:HG3	2.46	0.50
1:B:507:VAL:HG23	1:L:452:SER:O	2.12	0.50
1:F:327:LYS:HZ3	1:F:340:ASN:HB3	1.77	0.50
1:F:507:VAL:HG23	1:Q:452:SER:O	2.12	0.50
1:G:449:TRP:NE1	1:I:549:SER:OG	2.30	0.50
1:T:404:PHE:CE1	1:l:700:LYS:HG3	2.47	0.50
1:V:700:LYS:HG3	1:e:404:PHE:CE1	2.47	0.50
1:g:370:PRO:HD3	1:g:552:VAL:HG21	1.93	0.50
1:g:549:SER:HG	1:h:449:TRP:HE1	1.56	0.50
1:i:404:PHE:CE1	1:k:700:LYS:HG3	2.46	0.50
1:i:431:ALA:HB3	1:i:740:THR:HG22	1.93	0.50
1:i:507:VAL:HG23	1:k:452:SER:O	2.12	0.50
1:k:370:PRO:HD3	1:k:552:VAL:HG21	1.93	0.50
1:k:493:PHE:N	1:k:502:ASN:HD21	2.00	0.50
1:l:290:TYR:OH	1:l:317:MET:SD	2.56	0.50
1:n:370:PRO:HD3	1:n:552:VAL:HG21	1.93	0.50
1:r:431:ALA:HB3	1:r:740:THR:HG22	1.93	0.50
1:t:404:PHE:CE1	1:v:700:LYS:HG3	2.46	0.50
1:t:464:LEU:HD12	1:u:562:ARG:NH2	2.27	0.50
1:t:493:PHE:N	1:t:502:ASN:HD21	2.00	0.50
1:u:452:SER:O	1:v:507:VAL:HG23	2.12	0.50
1:w:700:LYS:HG3	1:x:404:PHE:CE1	2.47	0.50
1:x:452:SER:O	1:y:507:VAL:HG23	2.12	0.50
1:z:370:PRO:HD3	1:z:552:VAL:HG21	1.93	0.50
1:3:370:PRO:HD3	1:3:552:VAL:HG21	1.93	0.50
1:3:507:VAL:HG23	1:4:452:SER:O	2.11	0.50
1:6:503:ASN:OD1	1:6:504:VAL:N	2.43	0.50
1:7:327:LYS:HZ3	1:7:340:ASN:HB3	1.77	0.50
1:8:370:PRO:HD3	1:8:552:VAL:HG21	1.93	0.50
1:A:700:LYS:HG3	1:G:404:PHE:CE1	2.47	0.50
1:C:370:PRO:HD3	1:C:552:VAL:HG21	1.93	0.50
1:D:507:VAL:HG23	1:P:452:SER:O	2.12	0.50
1:D:700:LYS:HG3	1:N:404:PHE:CE1	2.46	0.50
1:E:700:LYS:HG3	1:Q:404:PHE:CE1	2.47	0.50
1:G:452:SER:O	1:I:507:VAL:HG23	2.12	0.50
1:H:431:ALA:HB3	1:H:740:THR:HG22	1.93	0.50
1:K:452:SER:O	1:a:507:VAL:HG23	2.11	0.50
1:N:431:ALA:HB3	1:N:740:THR:HG22	1.93	0.50
1:Q:370:PRO:HD3	1:Q:552:VAL:HG21	1.93	0.50
1:S:431:ALA:HB3	1:S:740:THR:HG22	1.93	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:T:370:PRO:HD3	1:T:552:VAL:HG21	1.93	0.50
1:T:700:LYS:HG3	1:d:404:PHE:CE1	2.46	0.50
1:a:370:PRO:HD3	1:a:552:VAL:HG21	1.93	0.50
1:j:464:LEU:HD12	1:k:562:ARG:NH2	2.27	0.50
1:m:456:GLN:NE2	1:m:459:SER:O	2.44	0.50
1:v:327:LYS:HZ3	1:v:340:ASN:HB3	1.76	0.50
1:5:431:ALA:HB3	1:5:740:THR:HG22	1.93	0.50
1:B:370:PRO:HD3	1:B:552:VAL:HG21	1.93	0.50
1:B:700:LYS:HG3	1:J:404:PHE:CE1	2.46	0.50
1:D:562:ARG:NH2	1:P:464:LEU:HD12	2.27	0.50
1:F:370:PRO:HD3	1:F:552:VAL:HG21	1.93	0.50
1:F:404:PHE:CE1	1:Q:700:LYS:HG3	2.47	0.50
1:H:562:ARG:NH2	1:Y:464:LEU:HD12	2.27	0.50
1:K:507:VAL:HG23	1:8:452:SER:O	2.12	0.50
1:L:370:PRO:HD3	1:L:552:VAL:HG21	1.93	0.50
1:Q:431:ALA:HB3	1:Q:740:THR:HG22	1.93	0.50
1:T:456:GLN:NE2	1:T:459:SER:O	2.44	0.50
1:V:562:ARG:NH2	1:X:464:LEU:HD12	2.27	0.50
1:Z:452:SER:O	1:4:507:VAL:HG23	2.12	0.50
1:c:464:LEU:HD12	1:o:562:ARG:NH2	2.27	0.50
1:d:452:SER:O	1:l:507:VAL:HG23	2.12	0.50
1:e:370:PRO:HD3	1:e:552:VAL:HG21	1.93	0.50
1:e:431:ALA:HB3	1:e:740:THR:HG22	1.93	0.50
1:g:507:VAL:HG23	1:h:452:SER:O	2.12	0.50
1:i:562:ARG:NH2	1:k:464:LEU:HD12	2.27	0.50
1:m:370:PRO:HD3	1:m:552:VAL:HG21	1.93	0.50
1:o:464:LEU:HD12	1:p:562:ARG:NH2	2.27	0.50
1:r:452:SER:O	1:s:507:VAL:HG23	2.12	0.50
1:t:327:LYS:HZ3	1:t:340:ASN:HB3	1.77	0.50
1:x:431:ALA:HB3	1:x:740:THR:HG22	1.93	0.50
1:y:370:PRO:HD3	1:y:552:VAL:HG21	1.93	0.50
1:2:370:PRO:HD3	1:2:552:VAL:HG21	1.93	0.50
1:5:562:ARG:NH2	1:7:464:LEU:HD12	2.27	0.50
1:D:464:LEU:HD12	1:N:562:ARG:NH2	2.27	0.49
1:G:493:PHE:N	1:G:502:ASN:HD21	2.00	0.49
1:I:370:PRO:HD3	1:I:552:VAL:HG21	1.93	0.49
1:J:370:PRO:HD3	1:J:552:VAL:HG21	1.93	0.49
1:J:431:ALA:HB3	1:J:740:THR:HG22	1.93	0.49
1:K:562:ARG:NH2	1:8:464:LEU:HD12	2.27	0.49
1:N:452:SER:O	1:P:507:VAL:HG23	2.12	0.49
1:N:464:LEU:HD12	1:P:562:ARG:NH2	2.27	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:R:452:SER:O	1:S:507:VAL:HG23	2.12	0.49
1:R:706:ILE:HG22	1:R:738:TYR:HD1	1.78	0.49
1:S:452:SER:O	1:U:507:VAL:HG23	2.12	0.49
1:S:464:LEU:HD12	1:U:562:ARG:NH2	2.27	0.49
1:Z:431:ALA:HB3	1:Z:740:THR:HG22	1.93	0.49
1:Z:464:LEU:HD12	1:4:562:ARG:NH2	2.27	0.49
1:b:327:LYS:HZ3	1:b:340:ASN:HB3	1.76	0.49
1:c:290:TYR:OH	1:c:317:MET:SD	2.56	0.49
1:f:562:ARG:NH2	1:g:464:LEU:HD12	2.27	0.49
1:i:452:SER:O	1:j:507:VAL:HG23	2.12	0.49
1:q:464:LEU:HD12	1:r:562:ARG:NH2	2.27	0.49
1:q:507:VAL:HG23	1:s:452:SER:O	2.11	0.49
1:t:449:TRP:NE1	1:u:549:SER:OG	2.30	0.49
1:t:452:SER:O	1:u:507:VAL:HG23	2.12	0.49
1:u:370:PRO:HD3	1:u:552:VAL:HG21	1.93	0.49
1:x:700:LYS:HG3	1:y:404:PHE:CE1	2.47	0.49
1:1:700:LYS:HG3	1:2:404:PHE:CE1	2.46	0.49
1:8:431:ALA:HB3	1:8:740:THR:HG22	1.93	0.49
1:A:456:GLN:NE2	1:A:459:SER:O	2.44	0.49
1:C:464:LEU:HD12	1:b:562:ARG:NH2	2.27	0.49
1:C:507:VAL:HG23	1:M:452:SER:O	2.12	0.49
1:E:327:LYS:HZ3	1:E:340:ASN:HB3	1.77	0.49
1:G:464:LEU:HD12	1:I:562:ARG:NH2	2.28	0.49
1:K:706:ILE:HG22	1:K:738:TYR:HD1	1.77	0.49
1:L:706:ILE:HG22	1:L:738:TYR:HD1	1.78	0.49
1:M:507:VAL:HG23	1:b:452:SER:O	2.12	0.49
1:R:464:LEU:HD12	1:S:562:ARG:NH2	2.27	0.49
1:R:507:VAL:HG23	1:U:452:SER:O	2.11	0.49
1:X:562:ARG:NH2	1:e:464:LEU:HD12	2.27	0.49
1:Y:370:PRO:HD3	1:Y:552:VAL:HG21	1.93	0.49
1:Z:706:ILE:HG22	1:Z:738:TYR:HD1	1.77	0.49
1:c:370:PRO:HD3	1:c:552:VAL:HG21	1.93	0.49
1:d:431:ALA:HB3	1:d:740:THR:HG22	1.93	0.49
1:g:431:ALA:HB3	1:g:740:THR:HG22	1.93	0.49
1:m:452:SER:O	1:n:507:VAL:HG23	2.12	0.49
1:n:431:ALA:HB3	1:n:740:THR:HG22	1.93	0.49
1:q:706:ILE:HG22	1:q:738:TYR:HD1	1.78	0.49
1:r:464:LEU:HD12	1:s:562:ARG:NH2	2.27	0.49
1:x:464:LEU:HD12	1:y:562:ARG:NH2	2.27	0.49
1:z:706:ILE:HG22	1:z:738:TYR:HD1	1.78	0.49
1:1:446:GLN:HA	1:2:364:THR:HA	1.92	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:3:589:THR:HG1	1:3:599:THR:HG1	1.60	0.49
1:5:464:LEU:HD12	1:6:562:ARG:NH2	2.27	0.49
1:5:700:LYS:HG3	1:6:404:PHE:CE1	2.46	0.49
1:7:370:PRO:HD3	1:7:552:VAL:HG21	1.93	0.49
1:8:706:ILE:HG22	1:8:738:TYR:HD1	1.77	0.49
1:B:446:GLN:HA	1:J:364:THR:HA	1.93	0.49
1:C:431:ALA:HB3	1:C:740:THR:HG22	1.93	0.49
1:C:706:ILE:HG22	1:C:738:TYR:HD1	1.78	0.49
1:D:706:ILE:HG22	1:D:738:TYR:HD1	1.78	0.49
1:F:364:THR:HA	1:Q:446:GLN:HA	1.92	0.49
1:F:562:ARG:NH2	1:Q:464:LEU:HD12	2.27	0.49
1:G:456:GLN:NE2	1:G:459:SER:O	2.44	0.49
1:J:446:GLN:HA	1:L:364:THR:HA	1.92	0.49
1:K:464:LEU:HD12	1:a:562:ARG:NH2	2.27	0.49
1:O:562:ARG:NH2	1:n:464:LEU:HD12	2.27	0.49
1:V:706:ILE:HG22	1:V:738:TYR:HD1	1.77	0.49
1:Z:404:PHE:CE1	1:3:700:LYS:HG3	2.47	0.49
1:c:706:ILE:HG22	1:c:738:TYR:HD1	1.78	0.49
1:e:706:ILE:HG22	1:e:738:TYR:HD1	1.78	0.49
1:g:706:ILE:HG22	1:g:738:TYR:HD1	1.78	0.49
1:i:464:LEU:HD12	1:j:562:ARG:NH2	2.27	0.49
1:j:370:PRO:HD3	1:j:552:VAL:HG21	1.93	0.49
1:k:706:ILE:HG22	1:k:738:TYR:HD1	1.78	0.49
1:m:493:PHE:N	1:m:502:ASN:HD21	2.00	0.49
1:m:700:LYS:HG3	1:n:404:PHE:CE1	2.47	0.49
1:p:706:ILE:HG22	1:p:738:TYR:HD1	1.77	0.49
1:q:452:SER:O	1:r:507:VAL:HG23	2.12	0.49
1:y:493:PHE:N	1:y:502:ASN:HD21	2.00	0.49
1:z:562:ARG:NH2	1:2:464:LEU:HD12	2.27	0.49
1:1:370:PRO:HD3	1:1:552:VAL:HG21	1.93	0.49
1:3:562:ARG:NH2	1:4:464:LEU:HD12	2.27	0.49
1:4:706:ILE:HG22	1:4:738:TYR:HD1	1.78	0.49
1:C:276:ASN:ND2	1:M:475:ALA:H	2.11	0.49
1:F:403:TYR:OH	1:R:301:ASP:OD2	2.31	0.49
1:H:464:LEU:HD12	1:W:562:ARG:NH2	2.27	0.49
1:O:507:VAL:HG23	1:n:452:SER:O	2.12	0.49
1:P:370:PRO:HD3	1:P:552:VAL:HG21	1.93	0.49
1:R:562:ARG:NH2	1:U:464:LEU:HD12	2.27	0.49
1:U:370:PRO:HD3	1:U:552:VAL:HG21	1.93	0.49
1:X:370:PRO:HD3	1:X:552:VAL:HG21	1.93	0.49
1:a:700:LYS:HG3	1:8:404:PHE:CE1	2.47	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:b:370:PRO:HD3	1:b:552:VAL:HG21	1.93	0.49
1:c:549:SER:OG	1:p:449:TRP:NE1	2.30	0.49
1:d:464:LEU:HD12	1:l:562:ARG:NH2	2.27	0.49
1:d:706:ILE:HG22	1:d:738:TYR:HD1	1.78	0.49
1:f:452:SER:O	1:h:507:VAL:HG23	2.12	0.49
1:o:370:PRO:HD3	1:o:552:VAL:HG21	1.93	0.49
1:s:370:PRO:HD3	1:s:552:VAL:HG21	1.93	0.49
1:u:589:THR:HG1	1:u:599:THR:HG1	1.57	0.49
1:v:456:GLN:NE2	1:v:459:SER:O	2.44	0.49
1:w:327:LYS:HZ3	1:w:340:ASN:HB3	1.77	0.49
1:2:431:ALA:HB3	1:2:740:THR:HG22	1.93	0.49
1:3:706:ILE:HG22	1:3:738:TYR:HD1	1.78	0.49
1:E:464:LEU:HD12	1:Q:562:ARG:NH2	2.28	0.49
1:H:700:LYS:HG3	1:W:404:PHE:CE1	2.46	0.49
1:H:706:ILE:HG22	1:H:738:TYR:HD1	1.78	0.49
1:J:464:LEU:HD12	1:L:562:ARG:NH2	2.27	0.49
1:W:464:LEU:HD12	1:Y:562:ARG:NH2	2.27	0.49
1:a:706:ILE:HG22	1:a:738:TYR:HD1	1.78	0.49
1:b:301:ASP:OD2	1:o:403:TYR:OH	2.31	0.49
1:f:475:ALA:H	1:h:276:ASN:ND2	2.11	0.49
1:g:404:PHE:CE1	1:h:700:LYS:HG3	2.46	0.49
1:m:475:ALA:H	1:n:276:ASN:ND2	2.10	0.49
1:p:301:ASP:OD2	1:q:403:TYR:OH	2.30	0.49
1:q:301:ASP:OD2	1:y:403:TYR:OH	2.31	0.49
1:q:562:ARG:NH2	1:s:464:LEU:HD12	2.27	0.49
1:s:706:ILE:HG22	1:s:738:TYR:HD1	1.78	0.49
1:t:403:TYR:OH	1:y:301:ASP:OD2	2.30	0.49
1:t:456:GLN:NE2	1:t:459:SER:O	2.44	0.49
1:t:507:VAL:HG23	1:v:452:SER:O	2.12	0.49
1:4:370:PRO:HD3	1:4:552:VAL:HG21	1.93	0.49
1:5:706:ILE:HG22	1:5:738:TYR:HD1	1.78	0.49
1:A:507:VAL:HG23	1:I:452:SER:O	2.12	0.49
1:B:706:ILE:HG22	1:B:738:TYR:HD1	1.78	0.49
1:G:706:ILE:HG22	1:G:738:TYR:HD1	1.78	0.49
1:I:706:ILE:HG22	1:I:738:TYR:HD1	1.78	0.49
1:J:475:ALA:H	1:L:276:ASN:ND2	2.11	0.49
1:K:276:ASN:ND2	1:8:475:ALA:H	2.11	0.49
1:L:354:TYR:OH	1:L:650:PRO:O	2.27	0.49
1:M:301:ASP:OD2	1:N:403:TYR:OH	2.30	0.49
1:M:431:ALA:HB3	1:M:740:THR:HG22	1.93	0.49
1:N:456:GLN:NE2	1:N:459:SER:O	2.44	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:O:403:TYR:OH	1:d:301:ASP:OD2	2.31	0.49
1:R:403:TYR:OH	1:V:301:ASP:OD2	2.30	0.49
1:R:589:THR:OG1	1:R:599:THR:OG1	2.30	0.49
1:S:475:ALA:H	1:U:276:ASN:ND2	2.11	0.49
1:T:493:PHE:N	1:T:502:ASN:HD21	2.00	0.49
1:U:589:THR:OG1	1:U:599:THR:OG1	2.30	0.49
1:X:301:ASP:OD2	1:Y:403:TYR:OH	2.31	0.49
1:f:370:PRO:HD3	1:f:552:VAL:HG21	1.93	0.49
1:g:301:ASP:OD2	1:l:403:TYR:OH	2.30	0.49
1:g:562:ARG:NH2	1:h:464:LEU:HD12	2.27	0.49
1:n:706:ILE:HG22	1:n:738:TYR:HD1	1.78	0.49
1:o:301:ASP:OD2	1:7:403:TYR:OH	2.31	0.49
1:s:589:THR:OG1	1:s:599:THR:OG1	2.30	0.49
1:t:706:ILE:HG22	1:t:738:TYR:HD1	1.77	0.49
1:u:449:TRP:HE1	1:v:549:SER:HG	1.56	0.49
1:w:464:LEU:HD12	1:x:562:ARG:NH2	2.27	0.49
1:x:446:GLN:HA	1:y:364:THR:HA	1.92	0.49
1:z:276:ASN:ND2	1:2:475:ALA:H	2.11	0.49
1:z:354:TYR:OH	1:z:650:PRO:O	2.27	0.49
1:A:370:PRO:HD3	1:A:552:VAL:HG21	1.93	0.49
1:B:403:TYR:OH	1:C:301:ASP:OD2	2.30	0.49
1:B:562:ARG:NH2	1:L:464:LEU:HD12	2.27	0.49
1:E:562:ARG:NH2	1:F:464:LEU:HD12	2.27	0.49
1:E:706:ILE:HG22	1:E:738:TYR:HD1	1.77	0.49
1:F:301:ASP:OD2	1:G:403:TYR:OH	2.31	0.49
1:H:507:VAL:HG23	1:Y:452:SER:O	2.12	0.49
1:J:301:ASP:OD2	1:a:403:TYR:OH	2.31	0.49
1:J:327:LYS:HZ3	1:J:340:ASN:HB3	1.77	0.49
1:K:370:PRO:HD3	1:K:552:VAL:HG21	1.93	0.49
1:K:403:TYR:OH	1:7:301:ASP:OD2	2.31	0.49
1:U:706:ILE:HG22	1:U:738:TYR:HD1	1.78	0.49
1:V:507:VAL:HG23	1:X:452:SER:O	2.12	0.49
1:W:706:ILE:HG22	1:W:738:TYR:HD1	1.78	0.49
1:X:403:TYR:OH	1:f:301:ASP:OD2	2.31	0.49
1:Z:475:ALA:H	1:4:276:ASN:ND2	2.11	0.49
1:c:276:ASN:ND2	1:p:475:ALA:H	2.11	0.49
1:g:327:LYS:HZ3	1:g:340:ASN:HB3	1.78	0.49
1:h:431:ALA:HB3	1:h:740:THR:HG22	1.93	0.49
1:i:456:GLN:NE2	1:i:459:SER:O	2.44	0.49
1:l:403:TYR:OH	1:n:301:ASP:OD2	2.31	0.49
1:o:452:SER:O	1:p:507:VAL:HG23	2.12	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:q:290:TYR:OH	1:q:317:MET:SD	2.56	0.49
1:r:475:ALA:H	1:s:276:ASN:ND2	2.11	0.49
1:t:562:ARG:NH2	1:v:464:LEU:HD12	2.27	0.49
1:u:706:ILE:HG22	1:u:738:TYR:HD1	1.78	0.49
1:v:370:PRO:HD3	1:v:552:VAL:HG21	1.93	0.49
1:z:665:PRO:HB2	1:4:256:PRO:HG3	1.95	0.49
1:1:706:ILE:HG22	1:1:738:TYR:HD1	1.78	0.49
1:2:301:ASP:OD2	1:3:403:TYR:OH	2.31	0.49
1:2:706:ILE:HG22	1:2:738:TYR:HD1	1.78	0.49
1:A:549:SER:HG	1:I:449:TRP:HE1	1.56	0.49
1:C:404:PHE:CE1	1:M:700:LYS:HG3	2.47	0.49
1:C:562:ARG:NH2	1:M:464:LEU:HD12	2.27	0.49
1:D:276:ASN:ND2	1:P:475:ALA:H	2.11	0.49
1:J:706:ILE:HG22	1:J:738:TYR:HD1	1.78	0.49
1:L:327:LYS:HZ3	1:L:340:ASN:HB3	1.77	0.49
1:M:276:ASN:ND2	1:b:475:ALA:H	2.11	0.49
1:M:386:LEU:HG	1:M:393:VAL:HG21	1.95	0.49
1:M:706:ILE:HG22	1:M:738:TYR:HD1	1.77	0.49
1:O:290:TYR:OH	1:O:317:MET:SD	2.56	0.49
1:S:370:PRO:HD3	1:S:552:VAL:HG21	1.93	0.49
1:V:475:ALA:H	1:e:276:ASN:ND2	2.11	0.49
1:Y:301:ASP:OD2	1:4:403:TYR:OH	2.31	0.49
1:f:706:ILE:HG22	1:f:738:TYR:HD1	1.78	0.49
1:g:276:ASN:ND2	1:h:475:ALA:H	2.11	0.49
1:h:386:LEU:HG	1:h:393:VAL:HG21	1.95	0.49
1:r:370:PRO:HD3	1:r:552:VAL:HG21	1.93	0.49
1:t:370:PRO:HD3	1:t:552:VAL:HG21	1.93	0.49
1:w:562:ARG:NH2	1:y:464:LEU:HD12	2.27	0.49
1:z:464:LEU:HD12	1:1:562:ARG:NH2	2.27	0.49
1:6:464:LEU:HD12	1:7:562:ARG:NH2	2.27	0.49
1:6:706:ILE:HG22	1:6:738:TYR:HD1	1.78	0.49
1:A:404:PHE:CE1	1:I:700:LYS:HG3	2.48	0.49
1:A:452:SER:O	1:G:507:VAL:HG23	2.12	0.49
1:A:464:LEU:HD12	1:G:562:ARG:NH2	2.27	0.49
1:C:475:ALA:H	1:b:276:ASN:ND2	2.11	0.49
1:F:493:PHE:N	1:F:502:ASN:HD21	2.00	0.49
1:G:370:PRO:HD3	1:G:552:VAL:HG21	1.93	0.49
1:G:475:ALA:H	1:I:276:ASN:ND2	2.11	0.49
1:I:456:GLN:NE2	1:I:459:SER:O	2.44	0.49
1:M:562:ARG:NH2	1:b:464:LEU:HD12	2.27	0.49
1:O:276:ASN:ND2	1:n:475:ALA:H	2.11	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:O:589:THR:OG1	1:O:599:THR:OG1	2.30	0.49
1:O:700:LYS:HG3	1:m:404:PHE:CE1	2.48	0.49
1:R:290:TYR:OH	1:R:317:MET:SD	2.56	0.49
1:R:589:THR:HG1	1:R:599:THR:HG1	1.61	0.49
1:V:449:TRP:NE1	1:e:549:SER:OG	2.30	0.49
1:V:464:LEU:HD12	1:e:562:ARG:NH2	2.28	0.49
1:X:276:ASN:ND2	1:e:475:ALA:H	2.11	0.49
1:Z:456:GLN:NE2	1:Z:459:SER:O	2.44	0.49
1:b:706:ILE:HG22	1:b:738:TYR:HD1	1.78	0.49
1:e:301:ASP:OD2	1:h:403:TYR:OH	2.31	0.49
1:f:276:ASN:ND2	1:g:475:ALA:H	2.11	0.49
1:f:449:TRP:NE1	1:h:549:SER:OG	2.30	0.49
1:g:386:LEU:HG	1:g:393:VAL:HG21	1.95	0.49
1:h:301:ASP:OD2	1:i:403:TYR:OH	2.31	0.49
1:h:706:ILE:HG22	1:h:738:TYR:HD1	1.78	0.49
1:l:589:THR:HG1	1:l:599:THR:HG1	1.57	0.49
1:p:386:LEU:HG	1:p:393:VAL:HG21	1.95	0.49
1:w:706:ILE:HG22	1:w:738:TYR:HD1	1.78	0.49
1:y:290:TYR:OH	1:y:317:MET:SD	2.56	0.49
1:2:386:LEU:HG	1:2:393:VAL:HG21	1.95	0.49
1:5:276:ASN:ND2	1:7:475:ALA:H	2.11	0.49
1:8:456:GLN:NE2	1:8:459:SER:O	2.44	0.49
1:A:451:PHE:HZ	1:A:454:VAL:HG23	1.78	0.49
1:C:327:LYS:HZ3	1:C:340:ASN:HB3	1.78	0.49
1:C:386:LEU:HG	1:C:393:VAL:HG21	1.95	0.49
1:E:449:TRP:NE1	1:Q:549:SER:OG	2.30	0.49
1:F:386:LEU:HG	1:F:393:VAL:HG21	1.95	0.49
1:H:386:LEU:HG	1:H:393:VAL:HG21	1.95	0.49
1:J:386:LEU:HG	1:J:393:VAL:HG21	1.95	0.49
1:J:451:PHE:HZ	1:J:454:VAL:HG23	1.78	0.49
1:M:403:TYR:OH	1:c:301:ASP:OD2	2.31	0.49
1:O:451:PHE:HZ	1:O:454:VAL:HG23	1.78	0.49
1:R:456:GLN:NE2	1:R:459:SER:O	2.44	0.49
1:T:464:LEU:HD12	1:d:562:ARG:NH2	2.27	0.49
1:V:386:LEU:HG	1:V:393:VAL:HG21	1.95	0.49
1:Y:386:LEU:HG	1:Y:393:VAL:HG21	1.95	0.49
1:Y:582:ASP:OD1	1:Y:583:ALA:N	2.46	0.49
1:Z:386:LEU:HG	1:Z:393:VAL:HG21	1.95	0.49
1:c:475:ALA:H	1:o:276:ASN:ND2	2.11	0.49
1:c:562:ARG:NH2	1:p:464:LEU:HD12	2.27	0.49
1:d:290:TYR:OH	1:d:317:MET:SD	2.56	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:f:464:LEU:HD12	1:h:562:ARG:NH2	2.27	0.49
1:i:475:ALA:H	1:j:276:ASN:ND2	2.11	0.49
1:o:475:ALA:H	1:p:276:ASN:ND2	2.11	0.49
1:o:706:ILE:HG22	1:o:738:TYR:HD1	1.77	0.49
1:q:456:GLN:NE2	1:q:459:SER:O	2.44	0.49
1:t:301:ASP:OD2	1:6:403:TYR:OH	2.31	0.49
1:t:475:ALA:H	1:u:276:ASN:ND2	2.11	0.49
1:v:451:PHE:HZ	1:v:454:VAL:HG23	1.78	0.49
1:w:354:TYR:OH	1:w:650:PRO:O	2.27	0.49
1:y:327:LYS:HZ3	1:y:340:ASN:HB3	1.78	0.49
1:y:386:LEU:HG	1:y:393:VAL:HG21	1.95	0.49
1:z:364:THR:HA	1:2:446:GLN:HA	1.93	0.49
1:5:386:LEU:HG	1:5:393:VAL:HG21	1.95	0.49
1:7:386:LEU:HG	1:7:393:VAL:HG21	1.95	0.49
1:7:582:ASP:OD1	1:7:583:ALA:N	2.46	0.49
1:A:276:ASN:ND2	1:I:475:ALA:H	2.10	0.48
1:A:475:ALA:H	1:G:276:ASN:ND2	2.10	0.48
1:A:706:ILE:HG22	1:A:738:TYR:HD1	1.78	0.48
1:H:276:ASN:ND2	1:Y:475:ALA:H	2.11	0.48
1:H:451:PHE:HZ	1:H:454:VAL:HG23	1.78	0.48
1:K:256:PRO:HG3	1:L:665:PRO:HB2	1.95	0.48
1:N:475:ALA:H	1:P:276:ASN:ND2	2.11	0.48
1:P:589:THR:OG1	1:P:599:THR:OG1	2.30	0.48
1:Q:301:ASP:OD2	1:S:403:TYR:OH	2.30	0.48
1:R:451:PHE:HZ	1:R:454:VAL:HG23	1.78	0.48
1:T:562:ARG:NH2	1:l:464:LEU:HD12	2.28	0.48
1:V:276:ASN:ND2	1:X:475:ALA:H	2.11	0.48
1:X:706:ILE:HG22	1:X:738:TYR:HD1	1.78	0.48
1:Y:456:GLN:NE2	1:Y:459:SER:O	2.44	0.48
1:Z:562:ARG:NH2	1:3:464:LEU:HD12	2.28	0.48
1:b:451:PHE:HZ	1:b:454:VAL:HG23	1.78	0.48
1:c:665:PRO:HB2	1:s:256:PRO:HG3	1.95	0.48
1:i:589:THR:HG1	1:i:599:THR:HG1	1.61	0.48
1:j:403:TYR:OH	1:l:301:ASP:OD2	2.31	0.48
1:j:475:ALA:H	1:k:276:ASN:ND2	2.12	0.48
1:j:706:ILE:HG22	1:j:738:TYR:HD1	1.78	0.48
1:n:290:TYR:OH	1:n:317:MET:SD	2.56	0.48
1:q:451:PHE:HZ	1:q:454:VAL:HG23	1.78	0.48
1:r:403:TYR:OH	1:x:301:ASP:OD2	2.30	0.48
1:v:582:ASP:OD1	1:v:583:ALA:N	2.46	0.48
1:l:464:LEU:HD12	1:2:562:ARG:NH2	2.27	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:2:451:PHE:HZ	1:2:454:VAL:HG23	1.78	0.48
1:5:507:VAL:HG23	1:7:452:SER:O	2.12	0.48
1:A:582:ASP:OD1	1:A:583:ALA:N	2.46	0.48
1:G:589:THR:OG1	1:G:599:THR:OG1	2.30	0.48
1:N:386:LEU:HG	1:N:393:VAL:HG21	1.95	0.48
1:P:386:LEU:HG	1:P:393:VAL:HG21	1.95	0.48
1:T:265:ARG:HD2	1:T:279:PHE:CE1	2.48	0.48
1:T:386:LEU:HG	1:T:393:VAL:HG21	1.95	0.48
1:V:451:PHE:HZ	1:V:454:VAL:HG23	1.78	0.48
1:i:386:LEU:HG	1:i:393:VAL:HG21	1.95	0.48
1:j:386:LEU:HG	1:j:393:VAL:HG21	1.95	0.48
1:k:456:GLN:NE2	1:k:459:SER:O	2.44	0.48
1:l:451:PHE:HZ	1:l:454:VAL:HG23	1.78	0.48
1:l:456:GLN:NE2	1:l:459:SER:O	2.44	0.48
1:m:386:LEU:HG	1:m:393:VAL:HG21	1.95	0.48
1:u:456:GLN:NE2	1:u:459:SER:O	2.44	0.48
1:x:589:THR:OG1	1:x:599:THR:OG1	2.30	0.48
1:3:386:LEU:HG	1:3:393:VAL:HG21	1.95	0.48
1:4:327:LYS:HZ3	1:4:340:ASN:HB3	1.78	0.48
1:6:582:ASP:OD1	1:6:583:ALA:N	2.46	0.48
1:B:327:LYS:HZ3	1:B:340:ASN:HB3	1.78	0.48
1:D:327:LYS:HZ3	1:D:340:ASN:HB3	1.78	0.48
1:D:456:GLN:NE2	1:D:459:SER:O	2.44	0.48
1:D:475:ALA:H	1:N:276:ASN:ND2	2.11	0.48
1:D:665:PRO:HB2	1:E:256:PRO:HG3	1.96	0.48
1:E:354:TYR:OH	1:E:650:PRO:O	2.27	0.48
1:F:706:ILE:HG22	1:F:738:TYR:HD1	1.78	0.48
1:K:475:ALA:H	1:a:276:ASN:ND2	2.11	0.48
1:O:265:ARG:HD2	1:O:279:PHE:CE1	2.49	0.48
1:O:706:ILE:HG22	1:O:738:TYR:HD1	1.77	0.48
1:P:706:ILE:HG22	1:P:738:TYR:HD1	1.77	0.48
1:R:665:PRO:HB2	1:V:256:PRO:HG3	1.95	0.48
1:W:589:THR:OG1	1:W:599:THR:OG1	2.30	0.48
1:a:386:LEU:HG	1:a:393:VAL:HG21	1.95	0.48
1:a:464:LEU:HD12	1:8:562:ARG:NH2	2.28	0.48
1:b:265:ARG:HD2	1:b:279:PHE:CE1	2.49	0.48
1:c:582:ASP:OD1	1:c:583:ALA:N	2.46	0.48
1:d:475:ALA:H	1:l:276:ASN:ND2	2.11	0.48
1:e:582:ASP:OD1	1:e:583:ALA:N	2.46	0.48
1:f:327:LYS:HZ3	1:f:340:ASN:HB3	1.77	0.48
1:f:451:PHE:HZ	1:f:454:VAL:HG23	1.78	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:j:589:THR:OG1	1:j:599:THR:OG1	2.30	0.48
1:k:451:PHE:HZ	1:k:454:VAL:HG23	1.78	0.48
1:l:265:ARG:HD2	1:l:279:PHE:CE1	2.48	0.48
1:l:706:ILE:HG22	1:l:738:TYR:HD1	1.77	0.48
1:m:265:ARG:HD2	1:m:279:PHE:CE1	2.49	0.48
1:n:386:LEU:HG	1:n:393:VAL:HG21	1.95	0.48
1:p:256:PRO:HG3	1:q:665:PRO:HB2	1.95	0.48
1:p:451:PHE:HZ	1:p:454:VAL:HG23	1.78	0.48
1:q:386:LEU:HG	1:q:393:VAL:HG21	1.95	0.48
1:t:276:ASN:ND2	1:v:475:ALA:H	2.11	0.48
1:t:589:THR:OG1	1:t:599:THR:OG1	2.30	0.48
1:v:386:LEU:HG	1:v:393:VAL:HG21	1.95	0.48
1:v:706:ILE:HG22	1:v:738:TYR:HD1	1.78	0.48
1:w:370:PRO:HD3	1:w:552:VAL:HG21	1.93	0.48
1:x:386:LEU:HG	1:x:393:VAL:HG21	1.95	0.48
1:5:665:PRO:HB2	1:8:256:PRO:HG3	1.95	0.48
1:8:386:LEU:HG	1:8:393:VAL:HG21	1.95	0.48
1:D:451:PHE:HZ	1:D:454:VAL:HG23	1.79	0.48
1:H:256:PRO:HG3	1:I:665:PRO:HB2	1.95	0.48
1:H:665:PRO:HB2	1:Z:256:PRO:HG3	1.95	0.48
1:I:265:ARG:HD2	1:I:279:PHE:CE1	2.49	0.48
1:I:451:PHE:HZ	1:I:454:VAL:HG23	1.78	0.48
1:O:301:ASP:OD2	1:P:403:TYR:OH	2.31	0.48
1:O:456:GLN:NE2	1:O:459:SER:O	2.44	0.48
1:Q:265:ARG:HD2	1:Q:279:PHE:CE1	2.49	0.48
1:S:301:ASP:OD2	1:d:403:TYR:OH	2.31	0.48
1:T:403:TYR:OH	1:i:301:ASP:OD2	2.31	0.48
1:T:706:ILE:HG22	1:T:738:TYR:HD1	1.78	0.48
1:W:582:ASP:OD1	1:W:583:ALA:N	2.46	0.48
1:W:588:PRO:HG2	1:Y:489:ASP:HA	1.96	0.48
1:Y:706:ILE:HG22	1:Y:738:TYR:HD1	1.77	0.48
1:c:403:TYR:OH	1:s:301:ASP:OD2	2.30	0.48
1:c:452:SER:O	1:o:507:VAL:HG23	2.12	0.48
1:c:589:THR:OG1	1:c:599:THR:OG1	2.30	0.48
1:d:386:LEU:HG	1:d:393:VAL:HG21	1.95	0.48
1:f:265:ARG:HD2	1:f:279:PHE:CE1	2.49	0.48
1:i:589:THR:OG1	1:i:599:THR:OG1	2.30	0.48
1:m:256:PRO:HG3	1:s:665:PRO:HB2	1.94	0.48
1:r:451:PHE:HZ	1:r:454:VAL:HG23	1.78	0.48
1:u:403:TYR:OH	1:5:301:ASP:OD2	2.31	0.48
1:u:451:PHE:HZ	1:u:454:VAL:HG23	1.78	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:w:449:TRP:NE1	1:x:549:SER:OG	2.30	0.48
1:x:265:ARG:HD2	1:x:279:PHE:CE1	2.49	0.48
1:3:276:ASN:ND2	1:4:475:ALA:H	2.11	0.48
1:5:403:TYR:OH	1:8:301:ASP:OD2	2.30	0.48
1:5:451:PHE:HZ	1:5:454:VAL:HG23	1.78	0.48
1:6:589:THR:OG1	1:6:599:THR:OG1	2.30	0.48
1:7:456:GLN:NE2	1:7:459:SER:O	2.44	0.48
1:A:265:ARG:HD2	1:A:279:PHE:CE1	2.49	0.48
1:C:403:TYR:OH	1:D:301:ASP:OD2	2.31	0.48
1:G:301:ASP:OD2	1:W:403:TYR:OH	2.31	0.48
1:H:301:ASP:OD2	1:I:403:TYR:OH	2.31	0.48
1:H:456:GLN:NE2	1:H:459:SER:O	2.44	0.48
1:K:451:PHE:HZ	1:K:454:VAL:HG23	1.78	0.48
1:K:549:SER:OG	1:8:449:TRP:NE1	2.30	0.48
1:M:549:SER:OG	1:b:449:TRP:NE1	2.30	0.48
1:M:589:THR:HG1	1:M:599:THR:HG1	1.62	0.48
1:N:265:ARG:HD2	1:N:279:PHE:CE1	2.49	0.48
1:Q:386:LEU:HG	1:Q:393:VAL:HG21	1.95	0.48
1:R:276:ASN:ND2	1:U:475:ALA:H	2.11	0.48
1:R:386:LEU:HG	1:R:393:VAL:HG21	1.95	0.48
1:T:301:ASP:OD2	1:U:403:TYR:OH	2.31	0.48
1:T:475:ALA:H	1:d:276:ASN:ND2	2.11	0.48
1:X:582:ASP:OD1	1:X:583:ALA:N	2.46	0.48
1:c:265:ARG:HD2	1:c:279:PHE:CE1	2.49	0.48
1:e:265:ARG:HD2	1:e:279:PHE:CE1	2.49	0.48
1:h:327:LYS:HZ3	1:h:340:ASN:HB3	1.77	0.48
1:h:589:THR:HG1	1:h:599:THR:HG1	1.62	0.48
1:i:276:ASN:ND2	1:k:475:ALA:H	2.11	0.48
1:j:665:PRO:HB2	1:l:256:PRO:HG3	1.95	0.48
1:m:464:LEU:HD12	1:n:562:ARG:NH2	2.27	0.48
1:m:706:ILE:HG22	1:m:738:TYR:HD1	1.78	0.48
1:n:403:TYR:OH	1:r:301:ASP:OD2	2.31	0.48
1:n:589:THR:HG1	1:n:599:THR:HG1	1.60	0.48
1:o:582:ASP:OD1	1:o:583:ALA:N	2.46	0.48
1:q:276:ASN:ND2	1:s:475:ALA:H	2.11	0.48
1:q:354:TYR:OH	1:q:650:PRO:O	2.27	0.48
1:u:265:ARG:HD2	1:u:279:PHE:CE1	2.49	0.48
1:u:386:LEU:HG	1:u:393:VAL:HG21	1.95	0.48
1:v:265:ARG:HD2	1:v:279:PHE:CE1	2.49	0.48
1:y:706:ILE:HG22	1:y:738:TYR:HD1	1.78	0.48
1:z:403:TYR:OH	1:4:301:ASP:OD2	2.31	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:6:475:ALA:H	1:7:276:ASN:ND2	2.11	0.48
1:8:451:PHE:HZ	1:8:454:VAL:HG23	1.78	0.48
1:A:386:LEU:HG	1:A:393:VAL:HG21	1.95	0.48
1:B:464:LEU:HD12	1:J:562:ARG:NH2	2.27	0.48
1:E:265:ARG:HD2	1:E:279:PHE:CE1	2.48	0.48
1:E:370:PRO:HD3	1:E:552:VAL:HG21	1.93	0.48
1:E:386:LEU:HG	1:E:393:VAL:HG21	1.95	0.48
1:F:549:SER:OG	1:Q:449:TRP:NE1	2.30	0.48
1:H:475:ALA:H	1:W:276:ASN:ND2	2.11	0.48
1:I:386:LEU:HG	1:I:393:VAL:HG21	1.95	0.48
1:J:493:PHE:N	1:J:502:ASN:HD21	2.00	0.48
1:M:327:LYS:HZ3	1:M:340:ASN:HB3	1.77	0.48
1:N:589:THR:OG1	1:N:599:THR:OG1	2.30	0.48
1:R:285:TRP:CE2	1:R:657:LYS:HD2	2.49	0.48
1:S:386:LEU:HG	1:S:393:VAL:HG21	1.95	0.48
1:S:451:PHE:HZ	1:S:454:VAL:HG23	1.78	0.48
1:S:706:ILE:HG22	1:S:738:TYR:HD1	1.78	0.48
1:T:276:ASN:ND2	1:l:475:ALA:H	2.11	0.48
1:U:256:PRO:HG3	1:e:665:PRO:HB2	1.96	0.48
1:W:493:PHE:N	1:W:502:ASN:HD21	2.00	0.48
1:X:285:TRP:CE2	1:X:657:LYS:HD2	2.49	0.48
1:X:507:VAL:HG23	1:e:452:SER:O	2.12	0.48
1:Y:451:PHE:HZ	1:Y:454:VAL:HG23	1.78	0.48
1:Z:451:PHE:HZ	1:Z:454:VAL:HG23	1.78	0.48
1:e:354:TYR:OH	1:e:650:PRO:O	2.27	0.48
1:e:589:THR:OG1	1:e:599:THR:OG1	2.30	0.48
1:g:403:TYR:OH	1:k:301:ASP:OD2	2.31	0.48
1:i:265:ARG:HD2	1:i:279:PHE:CE1	2.49	0.48
1:o:588:PRO:HG2	1:p:489:ASP:HA	1.96	0.48
1:r:706:ILE:HG22	1:r:738:TYR:HD1	1.78	0.48
1:t:265:ARG:HD2	1:t:279:PHE:CE1	2.48	0.48
1:u:464:LEU:HD12	1:v:562:ARG:NH2	2.27	0.48
1:v:403:TYR:OH	1:l:301:ASP:OD2	2.31	0.48
1:w:285:TRP:CE2	1:w:657:LYS:HD2	2.49	0.48
1:x:449:TRP:NE1	1:y:549:SER:OG	2.30	0.48
1:2:265:ARG:HD2	1:2:279:PHE:CE1	2.49	0.48
1:4:285:TRP:CE2	1:4:657:LYS:HD2	2.49	0.48
1:4:451:PHE:HZ	1:4:454:VAL:HG23	1.79	0.48
1:6:451:PHE:HZ	1:6:454:VAL:HG23	1.78	0.48
1:6:588:PRO:HG2	1:7:489:ASP:HA	1.96	0.48
1:B:285:TRP:CE2	1:B:657:LYS:HD2	2.49	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:665:PRO:HB2	1:C:256:PRO:HG3	1.95	0.48
1:D:582:ASP:OD1	1:D:583:ALA:N	2.46	0.48
1:D:588:PRO:HG2	1:N:489:ASP:HA	1.96	0.48
1:D:589:THR:OG1	1:D:599:THR:OG1	2.30	0.48
1:E:285:TRP:CE2	1:E:657:LYS:HD2	2.49	0.48
1:F:276:ASN:ND2	1:Q:475:ALA:H	2.11	0.48
1:G:265:ARG:HD2	1:G:279:PHE:CE1	2.49	0.48
1:G:320:ARG:HB3	1:G:416:GLU:HG3	1.96	0.48
1:J:265:ARG:HD2	1:J:279:PHE:CE1	2.49	0.48
1:K:285:TRP:CE2	1:K:657:LYS:HD2	2.49	0.48
1:K:588:PRO:HG2	1:a:489:ASP:HA	1.95	0.48
1:P:320:ARG:HB3	1:P:416:GLU:HG3	1.96	0.48
1:Q:285:TRP:CE2	1:Q:657:LYS:HD2	2.49	0.48
1:S:290:TYR:OH	1:S:317:MET:SD	2.56	0.48
1:V:489:ASP:HA	1:X:588:PRO:HG2	1.96	0.48
1:W:265:ARG:HD2	1:W:279:PHE:CE1	2.49	0.48
1:W:451:PHE:HZ	1:W:454:VAL:HG23	1.78	0.48
1:W:475:ALA:H	1:Y:276:ASN:ND2	2.11	0.48
1:X:386:LEU:HG	1:X:393:VAL:HG21	1.95	0.48
1:Y:290:TYR:OH	1:Y:317:MET:SD	2.56	0.48
1:g:256:PRO:HG3	1:l:665:PRO:HB2	1.95	0.48
1:k:582:ASP:OD1	1:k:583:ALA:N	2.46	0.48
1:n:265:ARG:HD2	1:n:279:PHE:CE1	2.49	0.48
1:o:285:TRP:CE2	1:o:657:LYS:HD2	2.49	0.48
1:p:265:ARG:HD2	1:p:279:PHE:HE1	1.79	0.48
1:q:489:ASP:HA	1:s:588:PRO:HG2	1.95	0.48
1:r:290:TYR:OH	1:r:317:MET:SD	2.56	0.48
1:r:386:LEU:HG	1:r:393:VAL:HG21	1.95	0.48
1:t:320:ARG:HB3	1:t:416:GLU:HG3	1.96	0.48
1:x:285:TRP:CE2	1:x:657:LYS:HD2	2.49	0.48
1:x:475:ALA:H	1:y:276:ASN:ND2	2.11	0.48
1:z:265:ARG:HD2	1:z:279:PHE:CE1	2.49	0.48
1:z:320:ARG:HB3	1:z:416:GLU:HG3	1.96	0.48
1:1:285:TRP:CE2	1:1:657:LYS:HD2	2.49	0.48
1:5:456:GLN:NE2	1:5:459:SER:O	2.44	0.48
1:6:265:ARG:HD2	1:6:279:PHE:CE1	2.49	0.48
1:6:354:TYR:OH	1:6:650:PRO:O	2.27	0.48
1:7:290:TYR:OH	1:7:317:MET:SD	2.56	0.48
1:7:451:PHE:HZ	1:7:454:VAL:HG23	1.78	0.48
1:7:589:THR:OG1	1:7:599:THR:OG1	2.30	0.48
1:7:706:ILE:HG22	1:7:738:TYR:HD1	1.77	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:403:TYR:OH	1:B:301:ASP:OD2	2.31	0.48
1:C:320:ARG:HB3	1:C:416:GLU:HG3	1.96	0.48
1:D:265:ARG:HD2	1:D:279:PHE:CE1	2.49	0.48
1:D:403:TYR:OH	1:E:301:ASP:OD2	2.30	0.48
1:F:265:ARG:HD2	1:F:279:PHE:CE1	2.49	0.48
1:H:265:ARG:HD2	1:H:279:PHE:CE1	2.48	0.48
1:H:285:TRP:CE2	1:H:657:LYS:HD2	2.49	0.48
1:H:403:TYR:OH	1:Z:301:ASP:OD2	2.31	0.48
1:I:265:ARG:HD2	1:I:279:PHE:HE1	1.79	0.48
1:L:265:ARG:HD2	1:L:279:PHE:CE1	2.49	0.48
1:L:320:ARG:HB3	1:L:416:GLU:HG3	1.96	0.48
1:Q:256:PRO:HG3	1:S:665:PRO:HB2	1.95	0.48
1:T:285:TRP:CE2	1:T:657:LYS:HD2	2.49	0.48
1:U:265:ARG:HD2	1:U:279:PHE:CE1	2.49	0.48
1:V:265:ARG:HD2	1:V:279:PHE:CE1	2.49	0.48
1:W:354:TYR:OH	1:W:650:PRO:O	2.27	0.48
1:d:265:ARG:HD2	1:d:279:PHE:CE1	2.49	0.48
1:g:320:ARG:HB3	1:g:416:GLU:HG3	1.96	0.48
1:g:489:ASP:HA	1:h:588:PRO:HG2	1.96	0.48
1:i:489:ASP:HA	1:k:588:PRO:HG2	1.96	0.48
1:j:320:ARG:HB3	1:j:416:GLU:HG3	1.96	0.48
1:j:588:PRO:HG2	1:k:489:ASP:HA	1.95	0.48
1:k:265:ARG:HD2	1:k:279:PHE:CE1	2.49	0.48
1:k:665:PRO:HB2	1:w:256:PRO:HG3	1.96	0.48
1:l:327:LYS:HZ3	1:l:340:ASN:HB3	1.78	0.48
1:m:231:SER:HB2	1:m:322:PHE:HB2	1.96	0.48
1:m:285:TRP:CE2	1:m:657:LYS:HD2	2.49	0.48
1:m:301:ASP:OD2	1:s:403:TYR:OH	2.30	0.48
1:o:386:LEU:HG	1:o:393:VAL:HG21	1.95	0.48
1:o:451:PHE:HZ	1:o:454:VAL:HG23	1.78	0.48
1:o:589:THR:OG1	1:o:599:THR:OG1	2.30	0.48
1:q:285:TRP:CE2	1:q:657:LYS:HD2	2.49	0.48
1:s:265:ARG:HD2	1:s:279:PHE:CE1	2.49	0.48
1:w:265:ARG:HD2	1:w:279:PHE:CE1	2.49	0.48
1:w:386:LEU:HG	1:w:393:VAL:HG21	1.95	0.48
1:w:475:ALA:H	1:x:276:ASN:ND2	2.11	0.48
1:y:451:PHE:HZ	1:y:454:VAL:HG23	1.78	0.48
1:5:285:TRP:CE2	1:5:657:LYS:HD2	2.49	0.48
1:5:475:ALA:H	1:6:276:ASN:ND2	2.11	0.48
1:6:320:ARG:HB3	1:6:416:GLU:HG3	1.96	0.48
1:8:589:THR:HG1	1:8:599:THR:HG1	1.58	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:256:PRO:HG3	1:E:665:PRO:HB2	1.95	0.48
1:A:562:ARG:NH2	1:I:464:LEU:HD12	2.28	0.48
1:B:475:ALA:H	1:J:276:ASN:ND2	2.11	0.48
1:C:451:PHE:HZ	1:C:454:VAL:HG23	1.78	0.48
1:E:451:PHE:HZ	1:E:454:VAL:HG23	1.78	0.48
1:J:456:GLN:NE2	1:J:459:SER:O	2.44	0.48
1:J:589:THR:HG1	1:J:599:THR:HG1	1.61	0.48
1:K:665:PRO:HB2	1:7:256:PRO:HG3	1.96	0.48
1:L:301:ASP:OD2	1:b:403:TYR:OH	2.30	0.48
1:L:386:LEU:HG	1:L:393:VAL:HG21	1.95	0.48
1:O:320:ARG:HB3	1:O:416:GLU:HG3	1.96	0.48
1:O:464:LEU:HD12	1:m:562:ARG:NH2	2.28	0.48
1:O:475:ALA:H	1:m:276:ASN:ND2	2.11	0.48
1:R:475:ALA:H	1:S:276:ASN:ND2	2.11	0.48
1:S:231:SER:HB2	1:S:322:PHE:HB2	1.96	0.48
1:T:265:ARG:HD2	1:T:279:PHE:HE1	1.79	0.48
1:U:301:ASP:OD2	1:e:403:TYR:OH	2.31	0.48
1:V:265:ARG:HD2	1:V:279:PHE:HE1	1.79	0.48
1:V:285:TRP:CE2	1:V:657:LYS:HD2	2.49	0.48
1:V:403:TYR:OH	1:W:301:ASP:OD2	2.31	0.48
1:W:320:ARG:HB3	1:W:416:GLU:HG3	1.96	0.48
1:X:451:PHE:HZ	1:X:454:VAL:HG23	1.78	0.48
1:X:589:THR:OG1	1:X:599:THR:OG1	2.30	0.48
1:Y:285:TRP:CE2	1:Y:657:LYS:HD2	2.49	0.48
1:Y:589:THR:OG1	1:Y:599:THR:OG1	2.30	0.48
1:a:285:TRP:CE2	1:a:657:LYS:HD2	2.49	0.48
1:b:265:ARG:HD2	1:b:279:PHE:HE1	1.79	0.48
1:c:588:PRO:HG2	1:o:489:ASP:HA	1.96	0.48
1:e:320:ARG:HB3	1:e:416:GLU:HG3	1.96	0.48
1:f:265:ARG:HD2	1:f:279:PHE:HE1	1.79	0.48
1:h:451:PHE:HZ	1:h:454:VAL:HG23	1.78	0.48
1:i:451:PHE:HZ	1:i:454:VAL:HG23	1.78	0.48
1:j:265:ARG:HD2	1:j:279:PHE:CE1	2.48	0.48
1:l:320:ARG:HB3	1:l:416:GLU:HG3	1.96	0.48
1:n:231:SER:HB2	1:n:322:PHE:HB2	1.96	0.48
1:n:589:THR:OG1	1:n:599:THR:OG1	2.30	0.48
1:p:265:ARG:HD2	1:p:279:PHE:CE1	2.49	0.48
1:r:231:SER:HB2	1:r:322:PHE:HB2	1.96	0.48
1:r:665:PRO:HB2	1:x:256:PRO:HG3	1.95	0.48
1:u:475:ALA:H	1:v:276:ASN:ND2	2.11	0.48
1:y:265:ARG:HD2	1:y:279:PHE:CE1	2.49	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:y:285:TRP:CE2	1:y:657:LYS:HD2	2.49	0.48
1:y:320:ARG:HB3	1:y:416:GLU:HG3	1.96	0.48
1:z:386:LEU:HG	1:z:393:VAL:HG21	1.95	0.48
1:z:588:PRO:HG2	1:1:489:ASP:HA	1.95	0.48
1:2:456:GLN:NE2	1:2:459:SER:O	2.44	0.48
1:2:493:PHE:N	1:2:502:ASN:HD21	2.00	0.48
1:3:285:TRP:CE2	1:3:657:LYS:HD2	2.49	0.48
1:3:489:ASP:HA	1:4:588:PRO:HG2	1.96	0.48
1:5:265:ARG:HD2	1:5:279:PHE:CE1	2.49	0.48
1:B:489:ASP:HA	1:L:588:PRO:HG2	1.96	0.48
1:C:265:ARG:HD2	1:C:279:PHE:CE1	2.49	0.48
1:C:489:ASP:HA	1:M:588:PRO:HG2	1.96	0.48
1:E:475:ALA:H	1:Q:276:ASN:ND2	2.11	0.48
1:F:285:TRP:CE2	1:F:657:LYS:HD2	2.49	0.48
1:F:320:ARG:HB3	1:F:416:GLU:HG3	1.96	0.48
1:K:320:ARG:HB3	1:K:416:GLU:HG3	1.96	0.48
1:K:489:ASP:HA	1:8:588:PRO:HG2	1.96	0.48
1:L:256:PRO:HG3	1:b:665:PRO:HB2	1.95	0.48
1:M:451:PHE:HZ	1:M:454:VAL:HG23	1.78	0.48
1:N:265:ARG:HD2	1:N:279:PHE:HE1	1.79	0.48
1:N:285:TRP:CE2	1:N:657:LYS:HD2	2.49	0.48
1:N:451:PHE:HZ	1:N:454:VAL:HG23	1.78	0.48
1:N:588:PRO:HG2	1:P:489:ASP:HA	1.96	0.48
1:O:256:PRO:HG3	1:P:665:PRO:HB2	1.96	0.48
1:O:265:ARG:HD2	1:O:279:PHE:HE1	1.79	0.48
1:O:327:LYS:HZ3	1:O:340:ASN:HB3	1.78	0.48
1:P:265:ARG:HD2	1:P:279:PHE:CE1	2.49	0.48
1:R:489:ASP:HA	1:U:588:PRO:HG2	1.95	0.48
1:T:231:SER:HB2	1:T:322:PHE:HB2	1.96	0.48
1:T:320:ARG:HB3	1:T:416:GLU:HG3	1.96	0.48
1:V:320:ARG:HB3	1:V:416:GLU:HG3	1.96	0.48
1:X:320:ARG:HB3	1:X:416:GLU:HG3	1.96	0.48
1:X:489:ASP:HA	1:e:588:PRO:HG2	1.96	0.48
1:Z:276:ASN:ND2	1:3:475:ALA:H	2.11	0.48
1:Z:588:PRO:HG2	1:4:489:ASP:HA	1.96	0.48
1:a:265:ARG:HD2	1:a:279:PHE:CE1	2.49	0.48
1:a:475:ALA:H	1:8:276:ASN:ND2	2.11	0.48
1:c:320:ARG:HB3	1:c:416:GLU:HG3	1.96	0.48
1:d:231:SER:HB2	1:d:322:PHE:HB2	1.96	0.48
1:f:489:ASP:HA	1:g:588:PRO:HG2	1.96	0.48
1:g:265:ARG:HD2	1:g:279:PHE:CE1	2.49	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:i:265:ARG:HD2	1:i:279:PHE:HE1	1.79	0.48
1:i:285:TRP:CE2	1:i:657:LYS:HD2	2.49	0.48
1:j:449:TRP:NE1	1:k:549:SER:OG	2.30	0.48
1:k:403:TYR:OH	1:w:301:ASP:OD2	2.31	0.48
1:l:231:SER:HB2	1:l:322:PHE:HB2	1.96	0.48
1:l:265:ARG:HD2	1:l:279:PHE:HE1	1.79	0.48
1:m:265:ARG:HD2	1:m:279:PHE:HE1	1.79	0.48
1:q:475:ALA:H	1:r:276:ASN:ND2	2.11	0.48
1:r:354:TYR:OH	1:r:650:PRO:O	2.27	0.48
1:u:588:PRO:HG2	1:v:489:ASP:HA	1.96	0.48
1:v:256:PRO:HG3	1:w:665:PRO:HB2	1.95	0.48
1:w:451:PHE:HZ	1:w:454:VAL:HG23	1.78	0.48
1:x:231:SER:HB2	1:x:322:PHE:HB2	1.96	0.48
1:1:451:PHE:HZ	1:1:454:VAL:HG23	1.78	0.48
1:1:475:ALA:H	1:2:276:ASN:ND2	2.11	0.48
1:2:327:LYS:HZ3	1:2:340:ASN:HB3	1.78	0.48
1:3:265:ARG:HD2	1:3:279:PHE:CE1	2.49	0.48
1:3:451:PHE:HZ	1:3:454:VAL:HG23	1.78	0.48
1:4:320:ARG:HB3	1:4:416:GLU:HG3	1.96	0.48
1:7:285:TRP:CE2	1:7:657:LYS:HD2	2.49	0.48
1:8:285:TRP:CE2	1:8:657:LYS:HD2	2.49	0.48
1:A:301:ASP:OD2	1:E:403:TYR:OH	2.30	0.47
1:B:320:ARG:HB3	1:B:416:GLU:HG3	1.96	0.47
1:D:320:ARG:HB3	1:D:416:GLU:HG3	1.96	0.47
1:F:451:PHE:HZ	1:F:454:VAL:HG23	1.78	0.47
1:M:265:ARG:HD2	1:M:279:PHE:CE1	2.49	0.47
1:N:589:THR:HG1	1:N:599:THR:HG1	1.62	0.47
1:O:231:SER:HB2	1:O:322:PHE:HB2	1.96	0.47
1:Q:231:SER:HB2	1:Q:322:PHE:HB2	1.96	0.47
1:Q:706:ILE:HG22	1:Q:738:TYR:HD1	1.78	0.47
1:S:327:LYS:HZ3	1:S:340:ASN:HB3	1.79	0.47
1:U:456:GLN:NE2	1:U:459:SER:O	2.44	0.47
1:W:265:ARG:HD2	1:W:279:PHE:HE1	1.79	0.47
1:X:265:ARG:HD2	1:X:279:PHE:CE1	2.48	0.47
1:Y:256:PRO:HG3	1:4:665:PRO:HB2	1.96	0.47
1:Z:285:TRP:CE2	1:Z:657:LYS:HD2	2.49	0.47
1:c:231:SER:HB2	1:c:322:PHE:HB2	1.96	0.47
1:c:285:TRP:CE2	1:c:657:LYS:HD2	2.49	0.47
1:d:589:THR:OG1	1:d:599:THR:OG1	2.30	0.47
1:e:256:PRO:HG3	1:h:665:PRO:HB2	1.96	0.47
1:e:285:TRP:CE2	1:e:657:LYS:HD2	2.49	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:g:231:SER:HB2	1:g:322:PHE:HB2	1.96	0.47
1:g:451:PHE:HZ	1:g:454:VAL:HG23	1.78	0.47
1:g:665:PRO:HB2	1:k:256:PRO:HG3	1.96	0.47
1:k:320:ARG:HB3	1:k:416:GLU:HG3	1.96	0.47
1:m:320:ARG:HB3	1:m:416:GLU:HG3	1.96	0.47
1:o:256:PRO:HG3	1:7:665:PRO:HB2	1.95	0.47
1:o:320:ARG:HB3	1:o:416:GLU:HG3	1.96	0.47
1:p:285:TRP:CE2	1:p:657:LYS:HD2	2.49	0.47
1:p:327:LYS:HZ3	1:p:340:ASN:HB3	1.78	0.47
1:p:403:TYR:OH	1:6:301:ASP:OD2	2.31	0.47
1:u:582:ASP:OD1	1:u:583:ALA:N	2.46	0.47
1:w:276:ASN:ND2	1:y:475:ALA:H	2.11	0.47
1:w:489:ASP:HA	1:y:588:PRO:HG2	1.96	0.47
1:x:265:ARG:HD2	1:x:279:PHE:HE1	1.79	0.47
1:z:231:SER:HB2	1:z:322:PHE:HB2	1.96	0.47
1:1:320:ARG:HB3	1:1:416:GLU:HG3	1.96	0.47
1:3:231:SER:HB2	1:3:322:PHE:HB2	1.96	0.47
1:6:265:ARG:HD2	1:6:279:PHE:HE1	1.79	0.47
1:8:265:ARG:HD2	1:8:279:PHE:CE1	2.49	0.47
1:B:265:ARG:HD2	1:B:279:PHE:CE1	2.49	0.47
1:B:451:PHE:HZ	1:B:454:VAL:HG23	1.78	0.47
1:C:231:SER:HB2	1:C:322:PHE:HB2	1.96	0.47
1:C:589:THR:OG1	1:C:599:THR:OG1	2.30	0.47
1:D:489:ASP:HA	1:P:588:PRO:HG2	1.96	0.47
1:E:489:ASP:HA	1:F:588:PRO:HG2	1.96	0.47
1:F:231:SER:HB2	1:F:322:PHE:HB2	1.96	0.47
1:L:231:SER:HB2	1:L:322:PHE:HB2	1.96	0.47
1:L:451:PHE:HZ	1:L:454:VAL:HG23	1.78	0.47
1:M:665:PRO:HB2	1:c:256:PRO:HG3	1.96	0.47
1:O:614:TRP:NE1	1:m:634:ASN:HD22	2.13	0.47
1:S:265:ARG:HD2	1:S:279:PHE:CE1	2.49	0.47
1:U:386:LEU:HG	1:U:393:VAL:HG21	1.95	0.47
1:V:327:LYS:HZ3	1:V:340:ASN:HB3	1.78	0.47
1:Y:493:PHE:N	1:Y:502:ASN:HD21	2.00	0.47
1:Z:403:TYR:OH	1:a:301:ASP:OD2	2.31	0.47
1:Z:449:TRP:NE1	1:4:549:SER:OG	2.30	0.47
1:Z:489:ASP:HA	1:3:588:PRO:HG2	1.96	0.47
1:a:231:SER:HB2	1:a:322:PHE:HB2	1.96	0.47
1:a:451:PHE:HZ	1:a:454:VAL:HG23	1.78	0.47
1:a:588:PRO:HG2	1:8:489:ASP:HA	1.96	0.47
1:e:231:SER:HB2	1:e:322:PHE:HB2	1.96	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:h:265:ARG:HD2	1:h:279:PHE:CE1	2.49	0.47
1:i:493:PHE:N	1:i:502:ASN:HD21	2.00	0.47
1:i:588:PRO:HG2	1:j:489:ASP:HA	1.96	0.47
1:j:265:ARG:HD2	1:j:279:PHE:HE1	1.79	0.47
1:j:285:TRP:CE2	1:j:657:LYS:HD2	2.49	0.47
1:k:386:LEU:HG	1:k:393:VAL:HG21	1.95	0.47
1:l:665:PRO:HB2	1:n:256:PRO:HG3	1.96	0.47
1:n:320:ARG:HB3	1:n:416:GLU:HG3	1.96	0.47
1:p:320:ARG:HB3	1:p:416:GLU:HG3	1.96	0.47
1:q:265:ARG:HD2	1:q:279:PHE:HE1	1.79	0.47
1:q:582:ASP:OD1	1:q:583:ALA:N	2.46	0.47
1:q:588:PRO:HG2	1:r:489:ASP:HA	1.96	0.47
1:s:231:SER:HB2	1:s:322:PHE:HB2	1.96	0.47
1:s:451:PHE:HZ	1:s:454:VAL:HG23	1.78	0.47
1:t:549:SER:OG	1:v:449:TRP:NE1	2.30	0.47
1:u:265:ARG:HD2	1:u:279:PHE:HE1	1.79	0.47
1:v:301:ASP:OD2	1:w:403:TYR:OH	2.30	0.47
1:x:706:ILE:HG22	1:x:738:TYR:HD1	1.77	0.47
1:1:265:ARG:HD2	1:1:279:PHE:CE1	2.49	0.47
1:6:493:PHE:N	1:6:502:ASN:HD21	2.00	0.47
1:A:449:TRP:NE1	1:G:549:SER:OG	2.30	0.47
1:A:489:ASP:HB3	1:A:512:LYS:HD3	1.97	0.47
1:B:265:ARG:HD2	1:B:279:PHE:HE1	1.79	0.47
1:C:588:PRO:HG2	1:b:489:ASP:HA	1.96	0.47
1:C:665:PRO:HB2	1:D:256:PRO:HG3	1.96	0.47
1:E:265:ARG:HD2	1:E:279:PHE:HE1	1.79	0.47
1:E:276:ASN:ND2	1:F:475:ALA:H	2.11	0.47
1:I:301:ASP:OD2	1:J:403:TYR:OH	2.30	0.47
1:I:582:ASP:OD1	1:I:583:ALA:N	2.46	0.47
1:N:706:ILE:HG22	1:N:738:TYR:HD1	1.78	0.47
1:P:265:ARG:HD2	1:P:279:PHE:HE1	1.79	0.47
1:P:285:TRP:CE2	1:P:657:LYS:HD2	2.49	0.47
1:Q:265:ARG:HD2	1:Q:279:PHE:HE1	1.79	0.47
1:Q:451:PHE:HZ	1:Q:454:VAL:HG23	1.78	0.47
1:R:265:ARG:HD2	1:R:279:PHE:HE1	1.79	0.47
1:S:582:ASP:OD1	1:S:583:ALA:N	2.46	0.47
1:U:231:SER:HB2	1:U:322:PHE:HB2	1.96	0.47
1:U:451:PHE:HZ	1:U:454:VAL:HG23	1.78	0.47
1:W:386:LEU:HG	1:W:393:VAL:HG21	1.95	0.47
1:X:256:PRO:HG3	1:Y:665:PRO:HB2	1.95	0.47
1:Y:265:ARG:HD2	1:Y:279:PHE:CE1	2.49	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Z:265:ARG:HD2	1:Z:279:PHE:CE1	2.49	0.47
1:d:320:ARG:HB3	1:d:416:GLU:HG3	1.96	0.47
1:d:490:GLN:O	1:d:542:MET:HG2	2.15	0.47
1:f:403:TYR:OH	1:z:301:ASP:OD2	2.31	0.47
1:i:490:GLN:O	1:i:542:MET:HG2	2.15	0.47
1:i:706:ILE:HG22	1:i:738:TYR:HD1	1.78	0.47
1:l:582:ASP:OD1	1:l:583:ALA:N	2.46	0.47
1:n:490:GLN:O	1:n:542:MET:HG2	2.15	0.47
1:o:265:ARG:HD2	1:o:279:PHE:CE1	2.49	0.47
1:r:265:ARG:HD2	1:r:279:PHE:CE1	2.49	0.47
1:s:456:GLN:NE2	1:s:459:SER:O	2.44	0.47
1:t:386:LEU:HG	1:t:393:VAL:HG21	1.95	0.47
1:t:451:PHE:HZ	1:t:454:VAL:HG23	1.78	0.47
1:u:285:TRP:CE2	1:u:657:LYS:HD2	2.49	0.47
1:x:451:PHE:HZ	1:x:454:VAL:HG23	1.78	0.47
1:y:231:SER:HB2	1:y:322:PHE:HB2	1.96	0.47
1:C:265:ARG:HD2	1:C:279:PHE:HE1	1.79	0.47
1:C:490:GLN:O	1:C:542:MET:HG2	2.15	0.47
1:D:549:SER:OG	1:P:449:TRP:NE1	2.30	0.47
1:G:451:PHE:HZ	1:G:454:VAL:HG23	1.78	0.47
1:H:320:ARG:HB3	1:H:416:GLU:HG3	1.96	0.47
1:K:327:LYS:HZ3	1:K:340:ASN:HB3	1.79	0.47
1:L:265:ARG:HD2	1:L:279:PHE:HE1	1.79	0.47
1:L:285:TRP:CE2	1:L:657:LYS:HD2	2.49	0.47
1:L:582:ASP:OD1	1:L:583:ALA:N	2.46	0.47
1:M:285:TRP:CE2	1:M:657:LYS:HD2	2.49	0.47
1:N:490:GLN:O	1:N:542:MET:HG2	2.15	0.47
1:N:582:ASP:OD1	1:N:583:ALA:N	2.46	0.47
1:O:665:PRO:HB2	1:d:256:PRO:HG3	1.96	0.47
1:P:637:HIS:HA	2:P:801:D5M:H2'2	1.97	0.47
1:R:582:ASP:OD1	1:R:583:ALA:N	2.46	0.47
1:R:588:PRO:HG2	1:S:489:ASP:HA	1.96	0.47
1:S:354:TYR:OH	1:S:650:PRO:O	2.27	0.47
1:T:256:PRO:HG3	1:U:665:PRO:HB2	1.95	0.47
1:T:489:ASP:HB3	1:T:512:LYS:HD3	1.97	0.47
1:Z:490:GLN:O	1:Z:542:MET:HG2	2.15	0.47
1:b:386:LEU:HG	1:b:393:VAL:HG21	1.95	0.47
1:b:489:ASP:HB3	1:b:512:LYS:HD3	1.97	0.47
1:b:490:GLN:O	1:b:542:MET:HG2	2.15	0.47
1:d:588:PRO:HG2	1:l:489:ASP:HA	1.96	0.47
1:f:386:LEU:HG	1:f:393:VAL:HG21	1.95	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:f:490:GLN:O	1:f:542:MET:HG2	2.15	0.47
1:g:490:GLN:O	1:g:542:MET:HG2	2.15	0.47
1:g:589:THR:OG1	1:g:599:THR:OG1	2.30	0.47
1:h:285:TRP:CE2	1:h:657:LYS:HD2	2.49	0.47
1:n:456:GLN:NE2	1:n:459:SER:O	2.44	0.47
1:r:582:ASP:OD1	1:r:583:ALA:N	2.46	0.47
1:s:386:LEU:HG	1:s:393:VAL:HG21	1.95	0.47
1:t:489:ASP:HB3	1:t:512:LYS:HD3	1.97	0.47
1:z:285:TRP:CE2	1:z:657:LYS:HD2	2.49	0.47
1:z:451:PHE:HZ	1:z:454:VAL:HG23	1.78	0.47
1:1:265:ARG:HD2	1:1:279:PHE:HE1	1.79	0.47
1:1:386:LEU:HG	1:1:393:VAL:HG21	1.95	0.47
1:2:589:THR:HG1	1:2:599:THR:HG1	1.61	0.47
1:5:320:ARG:HB3	1:5:416:GLU:HG3	1.96	0.47
1:6:386:LEU:HG	1:6:393:VAL:HG21	1.95	0.47
1:7:493:PHE:N	1:7:502:ASN:HD21	2.00	0.47
1:8:489:ASP:HB3	1:8:512:LYS:HD3	1.97	0.47
1:8:493:PHE:N	1:8:502:ASN:HD21	2.00	0.47
1:A:489:ASP:HA	1:I:588:PRO:HG2	1.96	0.47
1:B:386:LEU:HG	1:B:393:VAL:HG21	1.95	0.47
1:B:637:HIS:HA	2:B:801:D5M:H2'2	1.97	0.47
1:D:386:LEU:HG	1:D:393:VAL:HG21	1.95	0.47
1:E:231:SER:HB2	1:E:322:PHE:HB2	1.96	0.47
1:F:256:PRO:HG3	1:G:665:PRO:HB2	1.95	0.47
1:F:637:HIS:HA	2:F:801:D5M:H2'2	1.97	0.47
1:G:386:LEU:HG	1:G:393:VAL:HG21	1.95	0.47
1:G:489:ASP:HB3	1:G:512:LYS:HD3	1.97	0.47
1:K:231:SER:HB2	1:K:322:PHE:HB2	1.96	0.47
1:M:582:ASP:OD1	1:M:583:ALA:N	2.46	0.47
1:N:493:PHE:N	1:N:502:ASN:HD21	2.00	0.47
1:O:285:TRP:CE2	1:O:657:LYS:HD2	2.49	0.47
1:O:582:ASP:OD1	1:O:583:ALA:N	2.46	0.47
1:P:301:ASP:OD2	1:Q:403:TYR:OH	2.31	0.47
1:S:285:TRP:CE2	1:S:657:LYS:HD2	2.49	0.47
1:S:588:PRO:HG2	1:U:489:ASP:HA	1.96	0.47
1:V:637:HIS:HA	2:V:801:D5M:H2'2	1.97	0.47
1:X:231:SER:HB2	1:X:322:PHE:HB2	1.96	0.47
1:Y:265:ARG:HD2	1:Y:279:PHE:HE1	1.79	0.47
1:Z:489:ASP:HB3	1:Z:512:LYS:HD3	1.97	0.47
1:b:582:ASP:OD1	1:b:583:ALA:N	2.46	0.47
1:d:451:PHE:HZ	1:d:454:VAL:HG23	1.78	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:f:489:ASP:HB3	1:f:512:LYS:HD3	1.97	0.47
1:f:582:ASP:OD1	1:f:583:ALA:N	2.46	0.47
1:f:665:PRO:HB2	1:z:256:PRO:HG3	1.96	0.47
1:g:285:TRP:CE2	1:g:657:LYS:HD2	2.49	0.47
1:h:582:ASP:OD1	1:h:583:ALA:N	2.46	0.47
1:j:637:HIS:HA	2:j:801:D5M:H2'2	1.97	0.47
1:l:285:TRP:CE2	1:l:657:LYS:HD2	2.49	0.47
1:m:451:PHE:HZ	1:m:454:VAL:HG23	1.78	0.47
1:m:489:ASP:HB3	1:m:512:LYS:HD3	1.97	0.47
1:n:451:PHE:HZ	1:n:454:VAL:HG23	1.78	0.47
1:r:588:PRO:HG2	1:s:489:ASP:HA	1.96	0.47
1:t:665:PRO:HB2	1:y:256:PRO:HG3	1.95	0.47
1:u:665:PRO:HB2	1:5:256:PRO:HG3	1.96	0.47
1:v:489:ASP:HB3	1:v:512:LYS:HD3	1.97	0.47
1:w:265:ARG:HD2	1:w:279:PHE:HE1	1.79	0.47
1:y:637:HIS:HA	2:y:801:D5M:H2'2	1.97	0.47
1:z:475:ALA:H	1:1:276:ASN:ND2	2.11	0.47
1:z:490:GLN:O	1:z:542:MET:HG2	2.15	0.47
1:z:582:ASP:OD1	1:z:583:ALA:N	2.46	0.47
1:1:637:HIS:HA	2:1:801:D5M:H2'2	1.97	0.47
1:3:456:GLN:NE2	1:3:459:SER:O	2.44	0.47
1:4:231:SER:HB2	1:4:322:PHE:HB2	1.96	0.47
1:7:265:ARG:HD2	1:7:279:PHE:CE1	2.49	0.47
1:7:265:ARG:HD2	1:7:279:PHE:HE1	1.79	0.47
1:8:231:SER:HB2	1:8:322:PHE:HB2	1.96	0.47
1:8:490:GLN:O	1:8:542:MET:HG2	2.15	0.47
1:A:357:PRO:HB3	1:I:434:GLN:HE22	1.80	0.47
1:B:276:ASN:ND2	1:L:475:ALA:H	2.11	0.47
1:F:490:GLN:O	1:F:542:MET:HG2	2.15	0.47
1:F:665:PRO:HB2	1:R:256:PRO:HG3	1.96	0.47
1:G:285:TRP:CE2	1:G:657:LYS:HD2	2.49	0.47
1:G:588:PRO:HG2	1:I:489:ASP:HA	1.96	0.47
1:I:285:TRP:CE2	1:I:657:LYS:HD2	2.49	0.47
1:J:256:PRO:HG3	1:a:665:PRO:HB2	1.96	0.47
1:K:290:TYR:OH	1:K:317:MET:SD	2.56	0.47
1:L:490:GLN:O	1:L:542:MET:HG2	2.15	0.47
1:M:265:ARG:HD2	1:M:279:PHE:HE1	1.79	0.47
1:O:386:LEU:HG	1:O:393:VAL:HG21	1.95	0.47
1:O:489:ASP:HA	1:n:588:PRO:HG2	1.96	0.47
1:Q:489:ASP:HB3	1:Q:512:LYS:HD3	1.97	0.47
1:Q:490:GLN:O	1:Q:542:MET:HG2	2.15	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:R:490:GLN:O	1:R:542:MET:HG2	2.15	0.47
1:T:451:PHE:HZ	1:T:454:VAL:HG23	1.78	0.47
1:T:588:PRO:HG2	1:d:489:ASP:HA	1.95	0.47
1:U:327:LYS:HZ3	1:U:340:ASN:HB3	1.79	0.47
1:Z:231:SER:HB2	1:Z:322:PHE:HB2	1.96	0.47
1:c:327:LYS:HZ3	1:c:340:ASN:HB3	1.79	0.47
1:c:489:ASP:HB3	1:c:512:LYS:HD3	1.97	0.47
1:d:456:GLN:NE2	1:d:459:SER:O	2.44	0.47
1:e:327:LYS:HZ3	1:e:340:ASN:HB3	1.79	0.47
1:e:451:PHE:HZ	1:e:454:VAL:HG23	1.78	0.47
1:g:265:ARG:HD2	1:g:279:PHE:HE1	1.79	0.47
1:i:582:ASP:OD1	1:i:583:ALA:N	2.46	0.47
1:o:231:SER:HB2	1:o:322:PHE:HB2	1.96	0.47
1:p:637:HIS:HA	2:p:801:D5M:H2'2	1.97	0.47
1:q:490:GLN:O	1:q:542:MET:HG2	2.15	0.47
1:r:285:TRP:CE2	1:r:657:LYS:HD2	2.49	0.47
1:r:490:GLN:O	1:r:542:MET:HG2	2.15	0.47
1:t:588:PRO:HG2	1:u:489:ASP:HA	1.96	0.47
1:w:489:ASP:HB3	1:w:512:LYS:HD3	1.97	0.47
1:y:490:GLN:O	1:y:542:MET:HG2	2.15	0.47
1:z:265:ARG:HD2	1:z:279:PHE:HE1	1.79	0.47
1:2:231:SER:HB2	1:2:322:PHE:HB2	1.96	0.47
1:2:285:TRP:CE2	1:2:657:LYS:HD2	2.49	0.47
1:3:301:ASP:OD2	1:8:403:TYR:OH	2.31	0.47
1:4:290:TYR:OH	1:4:317:MET:SD	2.56	0.47
1:A:637:HIS:HA	2:A:801:D5M:H2'2	1.97	0.47
1:B:489:ASP:HB3	1:B:512:LYS:HD3	1.97	0.47
1:C:285:TRP:CE2	1:C:657:LYS:HD2	2.49	0.47
1:C:614:TRP:NE1	1:b:634:ASN:HD22	2.13	0.47
1:E:320:ARG:HB3	1:E:416:GLU:HG3	1.96	0.47
1:E:489:ASP:HB3	1:E:512:LYS:HD3	1.97	0.47
1:E:582:ASP:OD1	1:E:583:ALA:N	2.46	0.47
1:G:582:ASP:OD1	1:G:583:ALA:N	2.46	0.47
1:H:490:GLN:O	1:H:542:MET:HG2	2.15	0.47
1:I:231:SER:HB2	1:I:322:PHE:HB2	1.96	0.47
1:J:231:SER:HB2	1:J:322:PHE:HB2	1.96	0.47
1:J:285:TRP:CE2	1:J:657:LYS:HD2	2.49	0.47
1:J:489:ASP:HB3	1:J:512:LYS:HD3	1.97	0.47
1:K:265:ARG:HD2	1:K:279:PHE:CE1	2.49	0.47
1:K:489:ASP:HB3	1:K:512:LYS:HD3	1.97	0.47
1:K:490:GLN:O	1:K:542:MET:HG2	2.15	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:320:ARG:HB3	1:M:416:GLU:HG3	1.96	0.47
1:M:489:ASP:HA	1:b:588:PRO:HG2	1.96	0.47
1:M:489:ASP:HB3	1:M:512:LYS:HD3	1.97	0.47
1:O:354:TYR:OH	1:O:650:PRO:O	2.27	0.47
1:O:588:PRO:HG2	1:m:489:ASP:HA	1.96	0.47
1:P:327:LYS:HZ3	1:P:340:ASN:HB3	1.79	0.47
1:R:231:SER:HB2	1:R:322:PHE:HB2	1.96	0.47
1:R:265:ARG:HD2	1:R:279:PHE:CE1	2.49	0.47
1:R:320:ARG:HB3	1:R:416:GLU:HG3	1.96	0.47
1:R:489:ASP:HB3	1:R:512:LYS:HD3	1.97	0.47
1:S:256:PRO:HG3	1:d:665:PRO:HB2	1.96	0.47
1:S:490:GLN:O	1:S:542:MET:HG2	2.15	0.47
1:T:582:ASP:OD1	1:T:583:ALA:N	2.46	0.47
1:U:285:TRP:CE2	1:U:657:LYS:HD2	2.49	0.47
1:V:490:GLN:O	1:V:542:MET:HG2	2.15	0.47
1:V:665:PRO:HB2	1:W:256:PRO:HG3	1.96	0.47
1:W:490:GLN:O	1:W:542:MET:HG2	2.15	0.47
1:X:265:ARG:HD2	1:X:279:PHE:HE1	1.79	0.47
1:Z:320:ARG:HB3	1:Z:416:GLU:HG3	1.96	0.47
1:Z:493:PHE:N	1:Z:502:ASN:HD21	2.00	0.47
1:a:456:GLN:NE2	1:a:459:SER:O	2.44	0.47
1:a:493:PHE:N	1:a:502:ASN:HD21	2.00	0.47
1:b:231:SER:HB2	1:b:322:PHE:HB2	1.96	0.47
1:b:285:TRP:CE2	1:b:657:LYS:HD2	2.49	0.47
1:b:320:ARG:HB3	1:b:416:GLU:HG3	1.96	0.47
1:c:357:PRO:HB3	1:p:434:GLN:HE22	1.80	0.47
1:d:265:ARG:HD2	1:d:279:PHE:HE1	1.79	0.47
1:e:489:ASP:HB3	1:e:512:LYS:HD3	1.97	0.47
1:f:320:ARG:HB3	1:f:416:GLU:HG3	1.96	0.47
1:f:588:PRO:HG2	1:h:489:ASP:HA	1.96	0.47
1:f:634:ASN:HD22	1:g:614:TRP:NE1	2.13	0.47
1:h:265:ARG:HD2	1:h:279:PHE:HE1	1.79	0.47
1:h:320:ARG:HB3	1:h:416:GLU:HG3	1.96	0.47
1:h:489:ASP:HB3	1:h:512:LYS:HD3	1.97	0.47
1:j:301:ASP:OD2	1:x:403:TYR:OH	2.31	0.47
1:j:451:PHE:HZ	1:j:454:VAL:HG23	1.78	0.47
1:k:265:ARG:HD2	1:k:279:PHE:HE1	1.79	0.47
1:l:354:TYR:OH	1:l:650:PRO:O	2.27	0.47
1:l:386:LEU:HG	1:l:393:VAL:HG21	1.95	0.47
1:n:265:ARG:HD2	1:n:279:PHE:HE1	1.79	0.47
1:n:665:PRO:HB2	1:r:256:PRO:HG3	1.96	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:o:637:HIS:HA	2:o:801:D5M:H2'2	1.97	0.47
1:p:665:PRO:HB2	1:6:256:PRO:HG3	1.95	0.47
1:q:231:SER:HB2	1:q:322:PHE:HB2	1.96	0.47
1:q:256:PRO:HG3	1:y:665:PRO:HB2	1.96	0.47
1:q:265:ARG:HD2	1:q:279:PHE:CE1	2.49	0.47
1:q:320:ARG:HB3	1:q:416:GLU:HG3	1.96	0.47
1:q:489:ASP:HB3	1:q:512:LYS:HD3	1.97	0.47
1:s:285:TRP:CE2	1:s:657:LYS:HD2	2.49	0.47
1:t:285:TRP:CE2	1:t:657:LYS:HD2	2.49	0.47
1:t:582:ASP:OD1	1:t:583:ALA:N	2.46	0.47
1:w:231:SER:HB2	1:w:322:PHE:HB2	1.96	0.47
1:w:320:ARG:HB3	1:w:416:GLU:HG3	1.96	0.47
1:w:582:ASP:OD1	1:w:583:ALA:N	2.46	0.47
1:x:489:ASP:HB3	1:x:512:LYS:HD3	1.97	0.47
1:x:490:GLN:O	1:x:542:MET:HG2	2.15	0.47
1:x:588:PRO:HG2	1:y:489:ASP:HA	1.96	0.47
1:1:588:PRO:HG2	1:2:489:ASP:HA	1.96	0.47
1:2:256:PRO:HG3	1:3:665:PRO:HB2	1.96	0.47
1:4:265:ARG:HD2	1:4:279:PHE:CE1	2.48	0.47
1:4:490:GLN:O	1:4:542:MET:HG2	2.15	0.47
1:5:490:GLN:O	1:5:542:MET:HG2	2.15	0.47
1:5:588:PRO:HG2	1:6:489:ASP:HA	1.95	0.47
1:6:285:TRP:CE2	1:6:657:LYS:HD2	2.49	0.47
1:6:490:GLN:O	1:6:542:MET:HG2	2.15	0.47
1:8:265:ARG:HD2	1:8:279:PHE:HE1	1.79	0.47
1:8:320:ARG:HB3	1:8:416:GLU:HG3	1.96	0.47
1:A:320:ARG:HB3	1:A:416:GLU:HG3	1.96	0.47
1:B:490:GLN:O	1:B:542:MET:HG2	2.15	0.47
1:F:489:ASP:HA	1:Q:588:PRO:HG2	1.96	0.47
1:F:489:ASP:HB3	1:F:512:LYS:HD3	1.97	0.47
1:J:588:PRO:HG2	1:L:489:ASP:HA	1.96	0.47
1:K:301:ASP:OD2	1:L:403:TYR:OH	2.31	0.47
1:M:256:PRO:HG3	1:N:665:PRO:HB2	1.95	0.47
1:O:434:GLN:HE22	1:m:357:PRO:HB3	1.80	0.47
1:P:490:GLN:O	1:P:542:MET:HG2	2.15	0.47
1:Q:320:ARG:HB3	1:Q:416:GLU:HG3	1.96	0.47
1:S:320:ARG:HB3	1:S:416:GLU:HG3	1.96	0.47
1:T:489:ASP:HA	1:l:588:PRO:HG2	1.96	0.47
1:V:434:GLN:HE22	1:e:357:PRO:HB3	1.80	0.47
1:W:231:SER:HB2	1:W:322:PHE:HB2	1.96	0.47
1:X:637:HIS:HA	2:X:801:D5M:H2'2	1.97	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Z:265:ARG:HD2	1:Z:279:PHE:HE1	1.79	0.47
1:a:265:ARG:HD2	1:a:279:PHE:HE1	1.79	0.47
1:c:386:LEU:HG	1:c:393:VAL:HG21	1.95	0.47
1:c:451:PHE:HZ	1:c:454:VAL:HG23	1.78	0.47
1:d:493:PHE:N	1:d:502:ASN:HD21	2.00	0.47
1:e:386:LEU:HG	1:e:393:VAL:HG21	1.95	0.47
1:f:231:SER:HB2	1:f:322:PHE:HB2	1.96	0.47
1:f:285:TRP:CE2	1:f:657:LYS:HD2	2.49	0.47
1:j:582:ASP:OD1	1:j:583:ALA:N	2.46	0.47
1:m:582:ASP:OD1	1:m:583:ALA:N	2.46	0.47
1:o:265:ARG:HD2	1:o:279:PHE:HE1	1.79	0.47
1:p:490:GLN:O	1:p:542:MET:HG2	2.15	0.47
1:r:320:ARG:HB3	1:r:416:GLU:HG3	1.96	0.47
1:s:490:GLN:O	1:s:542:MET:HG2	2.15	0.47
1:u:231:SER:HB2	1:u:322:PHE:HB2	1.96	0.47
1:u:256:PRO:HG3	1:2:665:PRO:HB2	1.95	0.47
1:v:248:ARG:HB3	1:v:689:GLU:HG3	1.97	0.47
1:v:320:ARG:HB3	1:v:416:GLU:HG3	1.96	0.47
1:v:637:HIS:HA	2:v:801:D5M:H2'2	1.97	0.47
1:w:634:ASN:HD22	1:y:614:TRP:NE1	2.13	0.47
1:1:231:SER:HB2	1:1:322:PHE:HB2	1.96	0.47
1:1:489:ASP:HB3	1:1:512:LYS:HD3	1.97	0.47
1:2:489:ASP:HB3	1:2:512:LYS:HD3	1.97	0.47
1:3:265:ARG:HD2	1:3:279:PHE:HE1	1.79	0.47
1:3:493:PHE:N	1:3:502:ASN:HD21	2.00	0.47
1:D:265:ARG:HD2	1:D:279:PHE:HE1	1.79	0.47
1:E:634:ASN:HD22	1:F:614:TRP:NE1	2.13	0.47
1:H:489:ASP:HA	1:Y:588:PRO:HG2	1.96	0.47
1:I:256:PRO:HG3	1:J:665:PRO:HB2	1.95	0.47
1:K:386:LEU:HG	1:K:393:VAL:HG21	1.95	0.47
1:P:256:PRO:HG3	1:Q:665:PRO:HB2	1.96	0.47
1:S:265:ARG:HD2	1:S:279:PHE:HE1	1.79	0.47
1:T:634:ASN:HD22	1:l:614:TRP:NE1	2.13	0.47
1:U:490:GLN:O	1:U:542:MET:HG2	2.15	0.47
1:W:285:TRP:CE2	1:W:657:LYS:HD2	2.49	0.47
1:W:434:GLN:HE22	1:Y:357:PRO:HB3	1.80	0.47
1:Y:320:ARG:HB3	1:Y:416:GLU:HG3	1.96	0.47
1:a:320:ARG:HB3	1:a:416:GLU:HG3	1.96	0.47
1:a:489:ASP:HB3	1:a:512:LYS:HD3	1.97	0.47
1:c:489:ASP:HA	1:p:588:PRO:HG2	1.96	0.47
1:f:357:PRO:HB3	1:g:434:GLN:HE22	1.80	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:j:490:GLN:O	1:j:542:MET:HG2	2.15	0.47
1:m:614:TRP:NE1	1:n:634:ASN:HD22	2.12	0.47
1:n:285:TRP:CE2	1:n:657:LYS:HD2	2.49	0.47
1:o:490:GLN:O	1:o:542:MET:HG2	2.15	0.47
1:p:248:ARG:HB3	1:p:689:GLU:HG3	1.97	0.47
1:q:357:PRO:HB3	1:s:434:GLN:HE22	1.80	0.47
1:t:489:ASP:HA	1:v:588:PRO:HG2	1.96	0.47
1:u:301:ASP:OD2	1:2:403:TYR:OH	2.31	0.47
1:u:489:ASP:HB3	1:u:512:LYS:HD3	1.97	0.47
1:v:285:TRP:CE2	1:v:657:LYS:HD2	2.49	0.47
1:v:665:PRO:HB2	1:1:256:PRO:HG3	1.96	0.47
1:3:582:ASP:OD1	1:3:583:ALA:N	2.46	0.47
1:4:489:ASP:HB3	1:4:512:LYS:HD3	1.97	0.47
1:A:248:ARG:HB3	1:A:689:GLU:HG3	1.97	0.47
1:A:285:TRP:CE2	1:A:657:LYS:HD2	2.49	0.47
1:B:588:PRO:HG2	1:J:489:ASP:HA	1.96	0.47
1:C:434:GLN:HE22	1:b:357:PRO:HB3	1.80	0.47
1:C:634:ASN:HD22	1:M:614:TRP:NE1	2.13	0.47
1:E:248:ARG:HB3	1:E:689:GLU:HG3	1.97	0.47
1:E:490:GLN:O	1:E:542:MET:HG2	2.15	0.47
1:F:265:ARG:HD2	1:F:279:PHE:HE1	1.79	0.47
1:N:231:SER:HB2	1:N:322:PHE:HB2	1.96	0.47
1:P:231:SER:HB2	1:P:322:PHE:HB2	1.96	0.47
1:P:582:ASP:OD1	1:P:583:ALA:N	2.46	0.47
1:X:665:PRO:HB2	1:f:256:PRO:HG3	1.96	0.47
1:Z:665:PRO:HB2	1:a:256:PRO:HG3	1.96	0.47
1:b:637:HIS:HA	2:b:801:D5M:H2'2	1.97	0.47
1:c:265:ARG:HD2	1:c:279:PHE:HE1	1.79	0.47
1:h:256:PRO:HG3	1:i:665:PRO:HB2	1.95	0.47
1:m:483:PRO:HG3	1:n:516:LEU:HD12	1.96	0.47
1:p:231:SER:HB2	1:p:322:PHE:HB2	1.96	0.47
1:p:582:ASP:OD1	1:p:583:ALA:N	2.46	0.47
1:r:265:ARG:HD2	1:r:279:PHE:HE1	1.79	0.47
1:u:434:GLN:HE22	1:v:357:PRO:HB3	1.80	0.47
1:w:490:GLN:O	1:w:542:MET:HG2	2.15	0.47
1:x:320:ARG:HB3	1:x:416:GLU:HG3	1.96	0.47
1:x:614:TRP:NE1	1:y:634:ASN:HD22	2.13	0.47
1:y:489:ASP:HB3	1:y:512:LYS:HD3	1.97	0.47
1:z:489:ASP:HA	1:2:588:PRO:HG2	1.96	0.47
1:z:637:HIS:HA	2:z:801:D5M:H2'2	1.97	0.47
1:1:490:GLN:O	1:1:542:MET:HG2	2.15	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1:582:ASP:OD1	1:1:583:ALA:N	2.46	0.47
1:3:490:GLN:O	1:3:542:MET:HG2	2.15	0.47
1:4:386:LEU:HG	1:4:393:VAL:HG21	1.95	0.47
1:6:231:SER:HB2	1:6:322:PHE:HB2	1.96	0.47
1:6:434:GLN:HE22	1:7:357:PRO:HB3	1.80	0.47
1:A:588:PRO:HG2	1:G:489:ASP:HA	1.96	0.46
1:A:665:PRO:HB2	1:B:256:PRO:HG3	1.97	0.46
1:B:231:SER:HB2	1:B:322:PHE:HB2	1.96	0.46
1:F:634:ASN:HD22	1:Q:614:TRP:NE1	2.13	0.46
1:H:231:SER:HB2	1:H:322:PHE:HB2	1.96	0.46
1:H:588:PRO:HG2	1:W:489:ASP:HA	1.96	0.46
1:I:489:ASP:HB3	1:I:512:LYS:HD3	1.97	0.46
1:J:320:ARG:HB3	1:J:416:GLU:HG3	1.96	0.46
1:J:434:GLN:HE22	1:L:357:PRO:HB3	1.80	0.46
1:K:582:ASP:OD1	1:K:583:ALA:N	2.46	0.46
1:L:637:HIS:HA	2:L:801:D5M:H2'2	1.97	0.46
1:N:637:HIS:HA	2:N:801:D5M:H2'2	1.97	0.46
1:P:451:PHE:HZ	1:P:454:VAL:HG23	1.78	0.46
1:R:357:PRO:HB3	1:U:434:GLN:HE22	1.80	0.46
1:S:360:LEU:HG	1:S:653:GLN:HE21	1.80	0.46
1:U:719:GLN:CB	1:U:731:PRO:HG2	2.46	0.46
1:V:231:SER:HB2	1:V:322:PHE:HB2	1.96	0.46
1:V:248:ARG:HB3	1:V:689:GLU:HG3	1.98	0.46
1:V:719:GLN:CB	1:V:731:PRO:HG2	2.46	0.46
1:X:489:ASP:HB3	1:X:512:LYS:HD3	1.97	0.46
1:X:490:GLN:O	1:X:542:MET:HG2	2.15	0.46
1:Y:489:ASP:HB3	1:Y:512:LYS:HD3	1.97	0.46
1:b:256:PRO:HG3	1:o:665:PRO:HB2	1.96	0.46
1:d:285:TRP:CE2	1:d:657:LYS:HD2	2.49	0.46
1:g:582:ASP:OD1	1:g:583:ALA:N	2.46	0.46
1:i:231:SER:HB2	1:i:322:PHE:HB2	1.96	0.46
1:i:637:HIS:HA	2:i:801:D5M:H2'2	1.97	0.46
1:j:256:PRO:HG3	1:x:665:PRO:HB2	1.96	0.46
1:m:588:PRO:HG2	1:n:489:ASP:HA	1.96	0.46
1:n:637:HIS:HA	2:n:801:D5M:H2'2	1.97	0.46
1:q:634:ASN:HD22	1:s:614:TRP:NE1	2.13	0.46
1:w:248:ARG:HB3	1:w:689:GLU:HG3	1.98	0.46
1:2:320:ARG:HB3	1:2:416:GLU:HG3	1.96	0.46
1:3:320:ARG:HB3	1:3:416:GLU:HG3	1.96	0.46
1:5:489:ASP:HA	1:7:588:PRO:HG2	1.96	0.46
1:A:490:GLN:O	1:A:542:MET:HG2	2.15	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:516:LEU:HD12	1:I:483:PRO:HG3	1.97	0.46
1:B:582:ASP:OD1	1:B:583:ALA:N	2.46	0.46
1:C:483:PRO:HG3	1:b:516:LEU:HD12	1.98	0.46
1:D:434:GLN:HE22	1:N:357:PRO:HB3	1.80	0.46
1:F:319:PHE:HD1	1:F:688:VAL:HG22	1.81	0.46
1:G:490:GLN:O	1:G:542:MET:HG2	2.15	0.46
1:K:357:PRO:HB3	1:8:434:GLN:HE22	1.80	0.46
1:K:637:HIS:HA	2:K:801:D5M:H2'2	1.97	0.46
1:M:634:ASN:HD22	1:b:614:TRP:NE1	2.13	0.46
1:O:719:GLN:CB	1:O:731:PRO:HG2	2.46	0.46
1:Q:360:LEU:HG	1:Q:653:GLN:HE21	1.80	0.46
1:S:719:GLN:CB	1:S:731:PRO:HG2	2.46	0.46
1:T:357:PRO:HB3	1:l:434:GLN:HE22	1.81	0.46
1:V:483:PRO:HG3	1:e:516:LEU:HD12	1.98	0.46
1:V:582:ASP:OD1	1:V:583:ALA:N	2.46	0.46
1:V:588:PRO:HG2	1:e:489:ASP:HA	1.96	0.46
1:Y:490:GLN:O	1:Y:542:MET:HG2	2.15	0.46
1:Z:360:LEU:HG	1:Z:653:GLN:HE21	1.81	0.46
1:a:490:GLN:O	1:a:542:MET:HG2	2.15	0.46
1:a:582:ASP:OD1	1:a:583:ALA:N	2.46	0.46
1:c:516:LEU:HD12	1:p:483:PRO:HG3	1.98	0.46
1:d:637:HIS:HA	2:d:801:D5M:H2'2	1.97	0.46
1:f:516:LEU:HD12	1:g:483:PRO:HG3	1.98	0.46
1:f:637:HIS:HA	2:f:801:D5M:H2'2	1.97	0.46
1:h:231:SER:HB2	1:h:322:PHE:HB2	1.96	0.46
1:l:719:GLN:CB	1:l:731:PRO:HG2	2.46	0.46
1:r:360:LEU:HG	1:r:653:GLN:HE21	1.81	0.46
1:r:719:GLN:CB	1:r:731:PRO:HG2	2.46	0.46
1:s:719:GLN:CB	1:s:731:PRO:HG2	2.46	0.46
1:t:408:MET:HE3	1:y:234:TRP:HB2	1.98	0.46
1:t:490:GLN:O	1:t:542:MET:HG2	2.15	0.46
1:t:589:THR:HG1	1:t:599:THR:HG1	1.63	0.46
1:y:265:ARG:HD2	1:y:279:PHE:HE1	1.79	0.46
1:y:360:LEU:HG	1:y:653:GLN:HE21	1.81	0.46
1:2:265:ARG:HD2	1:2:279:PHE:HE1	1.79	0.46
1:2:490:GLN:O	1:2:542:MET:HG2	2.15	0.46
1:3:489:ASP:HB3	1:3:512:LYS:HD3	1.97	0.46
1:4:582:ASP:OD1	1:4:583:ALA:N	2.46	0.46
1:5:231:SER:HB2	1:5:322:PHE:HB2	1.96	0.46
1:7:489:ASP:HB3	1:7:512:LYS:HD3	1.97	0.46
1:7:490:GLN:O	1:7:542:MET:HG2	2.15	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:8:360:LEU:HG	1:8:653:GLN:HE21	1.81	0.46
1:8:719:GLN:CB	1:8:731:PRO:HG2	2.46	0.46
1:B:248:ARG:HB3	1:B:689:GLU:HG3	1.98	0.46
1:B:719:GLN:CB	1:B:731:PRO:HG2	2.46	0.46
1:D:285:TRP:CE2	1:D:657:LYS:HD2	2.49	0.46
1:E:588:PRO:HG2	1:Q:489:ASP:HA	1.96	0.46
1:E:589:THR:OG1	1:E:599:THR:OG1	2.30	0.46
1:F:234:TRP:HB2	1:G:408:MET:HE3	1.98	0.46
1:F:248:ARG:HB3	1:F:689:GLU:HG3	1.97	0.46
1:F:360:LEU:HG	1:F:653:GLN:HE21	1.81	0.46
1:J:490:GLN:O	1:J:542:MET:HG2	2.15	0.46
1:K:248:ARG:HB3	1:K:689:GLU:HG3	1.97	0.46
1:K:439:LEU:HD21	1:K:743:LEU:HD23	1.98	0.46
1:K:634:ASN:HD22	1:8:614:TRP:NE1	2.13	0.46
1:L:319:PHE:HD1	1:L:688:VAL:HG22	1.81	0.46
1:O:439:LEU:HD21	1:O:743:LEU:HD23	1.98	0.46
1:O:490:GLN:O	1:O:542:MET:HG2	2.15	0.46
1:O:493:PHE:N	1:O:502:ASN:HD21	2.00	0.46
1:R:434:GLN:HE22	1:S:357:PRO:HB3	1.80	0.46
1:U:248:ARG:HB3	1:U:689:GLU:HG3	1.97	0.46
1:X:360:LEU:HG	1:X:653:GLN:HE21	1.80	0.46
1:X:516:LEU:HD12	1:e:483:PRO:HG3	1.97	0.46
1:Z:434:GLN:HE22	1:4:357:PRO:HB3	1.80	0.46
1:Z:614:TRP:NE1	1:4:634:ASN:HD22	2.13	0.46
1:Z:719:GLN:CB	1:Z:731:PRO:HG2	2.46	0.46
1:b:439:LEU:HD21	1:b:743:LEU:HD23	1.98	0.46
1:c:634:ASN:HD22	1:p:614:TRP:NE1	2.13	0.46
1:e:265:ARG:HD2	1:e:279:PHE:HE1	1.79	0.46
1:f:439:LEU:HD21	1:f:743:LEU:HD23	1.98	0.46
1:g:634:ASN:HD22	1:h:614:TRP:NE1	2.14	0.46
1:j:231:SER:HB2	1:j:322:PHE:HB2	1.96	0.46
1:k:231:SER:HB2	1:k:322:PHE:HB2	1.96	0.46
1:k:719:GLN:CB	1:k:731:PRO:HG2	2.46	0.46
1:l:439:LEU:HD21	1:l:743:LEU:HD23	1.98	0.46
1:o:489:ASP:HB3	1:o:512:LYS:HD3	1.97	0.46
1:p:719:GLN:CB	1:p:731:PRO:HG2	2.46	0.46
1:t:256:PRO:HG3	1:6:665:PRO:HB2	1.96	0.46
1:v:490:GLN:O	1:v:542:MET:HG2	2.15	0.46
1:w:589:THR:OG1	1:w:599:THR:OG1	2.30	0.46
1:x:248:ARG:HB3	1:x:689:GLU:HG3	1.97	0.46
1:x:360:LEU:HG	1:x:653:GLN:HE21	1.81	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:y:248:ARG:HB3	1:y:689:GLU:HG3	1.97	0.46
1:y:319:PHE:HD1	1:y:688:VAL:HG22	1.81	0.46
1:1:248:ARG:HB3	1:1:689:GLU:HG3	1.97	0.46
1:1:719:GLN:CB	1:1:731:PRO:HG2	2.46	0.46
1:3:256:PRO:HG3	1:8:665:PRO:HB2	1.96	0.46
1:4:439:LEU:HD21	1:4:743:LEU:HD23	1.98	0.46
1:4:637:HIS:HA	2:4:801:D5M:H2'2	1.97	0.46
1:5:319:PHE:HD1	1:5:688:VAL:HG22	1.81	0.46
1:7:320:ARG:HB3	1:7:416:GLU:HG3	1.96	0.46
1:B:357:PRO:HB3	1:L:434:GLN:HE22	1.80	0.46
1:B:360:LEU:HG	1:B:653:GLN:HE21	1.81	0.46
1:C:248:ARG:HB3	1:C:689:GLU:HG3	1.97	0.46
1:C:319:PHE:HD1	1:C:688:VAL:HG22	1.81	0.46
1:C:582:ASP:OD1	1:C:583:ALA:N	2.46	0.46
1:D:489:ASP:HB3	1:D:512:LYS:HD3	1.97	0.46
1:D:634:ASN:HD22	1:P:614:TRP:NE1	2.13	0.46
1:D:719:GLN:CB	1:D:731:PRO:HG2	2.46	0.46
1:H:248:ARG:HB3	1:H:689:GLU:HG3	1.97	0.46
1:H:319:PHE:HD1	1:H:688:VAL:HG22	1.81	0.46
1:J:265:ARG:HD2	1:J:279:PHE:HE1	1.79	0.46
1:L:248:ARG:HB3	1:L:689:GLU:HG3	1.97	0.46
1:M:231:SER:HB2	1:M:322:PHE:HB2	1.96	0.46
1:M:357:PRO:HB3	1:b:434:GLN:HE22	1.80	0.46
1:N:614:TRP:NE1	1:P:634:ASN:HD22	2.14	0.46
1:R:360:LEU:HG	1:R:653:GLN:HE21	1.81	0.46
1:R:439:LEU:HD21	1:R:743:LEU:HD23	1.98	0.46
1:R:549:SER:OG	1:U:449:TRP:NE1	2.30	0.46
1:R:634:ASN:HD22	1:U:614:TRP:NE1	2.13	0.46
1:S:439:LEU:HD21	1:S:743:LEU:HD23	1.98	0.46
1:S:456:GLN:NE2	1:S:459:SER:O	2.44	0.46
1:T:549:SER:OG	1:l:449:TRP:NE1	2.30	0.46
1:V:456:GLN:NE2	1:V:459:SER:O	2.44	0.46
1:V:614:TRP:NE1	1:e:634:ASN:HD22	2.13	0.46
1:W:360:LEU:HG	1:W:653:GLN:HE21	1.81	0.46
1:Y:248:ARG:HB3	1:Y:689:GLU:HG3	1.98	0.46
1:b:290:TYR:OH	1:b:317:MET:SD	2.56	0.46
1:c:483:PRO:HG3	1:o:516:LEU:HD12	1.98	0.46
1:e:439:LEU:HD21	1:e:743:LEU:HD23	1.98	0.46
1:f:290:TYR:OH	1:f:317:MET:SD	2.56	0.46
1:f:614:TRP:NE1	1:h:634:ASN:HD22	2.13	0.46
1:g:248:ARG:HB3	1:g:689:GLU:HG3	1.97	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:g:319:PHE:HD1	1:g:688:VAL:HG22	1.81	0.46
1:h:439:LEU:HD21	1:h:743:LEU:HD23	1.98	0.46
1:i:320:ARG:HB3	1:i:416:GLU:HG3	1.96	0.46
1:i:357:PRO:HB3	1:k:434:GLN:HE22	1.80	0.46
1:j:489:ASP:HB3	1:j:512:LYS:HD3	1.97	0.46
1:j:614:TRP:NE1	1:k:634:ASN:HD22	2.13	0.46
1:k:285:TRP:CE2	1:k:657:LYS:HD2	2.49	0.46
1:l:490:GLN:O	1:l:542:MET:HG2	2.15	0.46
1:n:493:PHE:N	1:n:502:ASN:HD21	2.00	0.46
1:o:360:LEU:HG	1:o:653:GLN:HE21	1.81	0.46
1:q:360:LEU:HG	1:q:653:GLN:HE21	1.81	0.46
1:r:327:LYS:HZ3	1:r:340:ASN:HB3	1.80	0.46
1:s:248:ARG:HB3	1:s:689:GLU:HG3	1.97	0.46
1:s:320:ARG:HB3	1:s:416:GLU:HG3	1.96	0.46
1:u:248:ARG:HB3	1:u:689:GLU:HG3	1.98	0.46
1:w:588:PRO:HG2	1:x:489:ASP:HA	1.96	0.46
1:z:319:PHE:HD1	1:z:688:VAL:HG22	1.81	0.46
1:1:360:LEU:HG	1:1:653:GLN:HE21	1.80	0.46
1:3:719:GLN:CB	1:3:731:PRO:HG2	2.46	0.46
1:4:248:ARG:HB3	1:4:689:GLU:HG3	1.97	0.46
1:5:248:ARG:HB3	1:5:689:GLU:HG3	1.97	0.46
1:7:248:ARG:HB3	1:7:689:GLU:HG3	1.97	0.46
1:8:319:PHE:HD1	1:8:688:VAL:HG22	1.81	0.46
1:A:614:TRP:NE1	1:G:634:ASN:HD22	2.13	0.46
1:C:719:GLN:CB	1:C:731:PRO:HG2	2.46	0.46
1:D:231:SER:HB2	1:D:322:PHE:HB2	1.96	0.46
1:D:490:GLN:O	1:D:542:MET:HG2	2.15	0.46
1:D:589:THR:HG1	1:D:599:THR:HG1	1.62	0.46
1:E:483:PRO:HG3	1:Q:516:LEU:HD12	1.98	0.46
1:G:231:SER:HB2	1:G:322:PHE:HB2	1.96	0.46
1:G:256:PRO:HG3	1:W:665:PRO:HB2	1.96	0.46
1:G:614:TRP:NE1	1:I:634:ASN:HD22	2.13	0.46
1:H:489:ASP:HB3	1:H:512:LYS:HD3	1.97	0.46
1:I:248:ARG:HB3	1:I:689:GLU:HG3	1.98	0.46
1:J:439:LEU:HD21	1:J:743:LEU:HD23	1.98	0.46
1:K:614:TRP:NE1	1:a:634:ASN:HD22	2.13	0.46
1:L:719:GLN:CB	1:L:731:PRO:HG2	2.46	0.46
1:M:248:ARG:HB3	1:M:689:GLU:HG3	1.97	0.46
1:M:490:GLN:O	1:M:542:MET:HG2	2.15	0.46
1:M:637:HIS:HA	2:M:801:D5M:H2'2	1.97	0.46
1:N:449:TRP:NE1	1:P:549:SER:OG	2.30	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:O:248:ARG:HB3	1:O:689:GLU:HG3	1.97	0.46
1:O:637:HIS:HA	2:O:801:D5M:H2'2	1.97	0.46
1:Q:637:HIS:HA	2:Q:801:D5M:H2'2	1.97	0.46
1:T:490:GLN:O	1:T:542:MET:HG2	2.15	0.46
1:T:665:PRO:HB2	1:i:256:PRO:HG3	1.96	0.46
1:U:320:ARG:HB3	1:U:416:GLU:HG3	1.96	0.46
1:W:319:PHE:HD1	1:W:688:VAL:HG22	1.81	0.46
1:a:719:GLN:CB	1:a:731:PRO:HG2	2.46	0.46
1:b:248:ARG:HB3	1:b:689:GLU:HG3	1.97	0.46
1:c:408:MET:HE3	1:s:234:TRP:HB2	1.98	0.46
1:c:439:LEU:HD21	1:c:743:LEU:HD23	1.98	0.46
1:c:490:GLN:O	1:c:542:MET:HG2	2.15	0.46
1:c:719:GLN:CB	1:c:731:PRO:HG2	2.46	0.46
1:f:434:GLN:HE22	1:h:357:PRO:HB3	1.80	0.46
1:g:408:MET:HE3	1:k:234:TRP:HB2	1.98	0.46
1:g:719:GLN:CB	1:g:731:PRO:HG2	2.46	0.46
1:h:637:HIS:HA	2:h:801:D5M:H2'2	1.97	0.46
1:h:719:GLN:CB	1:h:731:PRO:HG2	2.46	0.46
1:l:493:PHE:N	1:l:502:ASN:HD21	2.00	0.46
1:l:637:HIS:HA	2:l:801:D5M:H2'2	1.97	0.46
1:m:490:GLN:O	1:m:542:MET:HG2	2.15	0.46
1:q:439:LEU:HD21	1:q:743:LEU:HD23	1.98	0.46
1:r:439:LEU:HD21	1:r:743:LEU:HD23	1.98	0.46
1:s:489:ASP:HB3	1:s:512:LYS:HD3	1.97	0.46
1:u:589:THR:OG1	1:u:599:THR:OG1	2.30	0.46
1:v:234:TRP:HB2	1:w:408:MET:HE3	1.98	0.46
1:w:516:LEU:HD12	1:y:483:PRO:HG3	1.98	0.46
1:z:248:ARG:HB3	1:z:689:GLU:HG3	1.97	0.46
1:z:357:PRO:HB3	1:2:434:GLN:HE22	1.81	0.46
1:z:719:GLN:CB	1:z:731:PRO:HG2	2.46	0.46
1:2:582:ASP:OD1	1:2:583:ALA:N	2.46	0.46
1:5:434:GLN:HE22	1:6:357:PRO:HB3	1.80	0.46
1:6:319:PHE:HD1	1:6:688:VAL:HG22	1.81	0.46
1:6:360:LEU:HG	1:6:653:GLN:HE21	1.81	0.46
1:B:439:LEU:HD21	1:B:743:LEU:HD23	1.98	0.46
1:C:489:ASP:HB3	1:C:512:LYS:HD3	1.97	0.46
1:D:319:PHE:HD1	1:D:688:VAL:HG22	1.81	0.46
1:E:516:LEU:HD12	1:F:483:PRO:HG3	1.98	0.46
1:G:439:LEU:HD21	1:G:743:LEU:HD23	1.98	0.46
1:H:434:GLN:HE22	1:W:357:PRO:HB3	1.80	0.46
1:H:439:LEU:HD21	1:H:743:LEU:HD23	1.98	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:637:HIS:HA	2:H:801:D5M:H2'2	1.97	0.46
1:J:614:TRP:NE1	1:L:634:ASN:HD22	2.13	0.46
1:L:234:TRP:HB2	1:b:408:MET:HE3	1.98	0.46
1:M:360:LEU:HG	1:M:653:GLN:HE21	1.81	0.46
1:M:439:LEU:HD21	1:M:743:LEU:HD23	1.98	0.46
1:M:719:GLN:CB	1:M:731:PRO:HG2	2.46	0.46
1:Q:248:ARG:HB3	1:Q:689:GLU:HG3	1.98	0.46
1:V:371:PHE:CE2	1:V:373:ALA:HB3	2.51	0.46
1:V:410:ARG:H	1:V:413:ASN:HD22	1.64	0.46
1:Y:719:GLN:CB	1:Y:731:PRO:HG2	2.46	0.46
1:Z:319:PHE:HD1	1:Z:688:VAL:HG22	1.81	0.46
1:a:439:LEU:HD21	1:a:743:LEU:HD23	1.98	0.46
1:e:719:GLN:CB	1:e:731:PRO:HG2	2.46	0.46
1:f:248:ARG:HB3	1:f:689:GLU:HG3	1.98	0.46
1:g:489:ASP:HB3	1:g:512:LYS:HD3	1.97	0.46
1:h:294:HIS:ND1	1:h:370:PRO:HB3	2.31	0.46
1:j:248:ARG:HB3	1:j:689:GLU:HG3	1.97	0.46
1:k:489:ASP:HB3	1:k:512:LYS:HD3	1.97	0.46
1:k:490:GLN:O	1:k:542:MET:HG2	2.15	0.46
1:l:248:ARG:HB3	1:l:689:GLU:HG3	1.97	0.46
1:o:433:ASN:O	1:p:386:LEU:N	2.46	0.46
1:p:319:PHE:HD1	1:p:688:VAL:HG22	1.81	0.46
1:p:371:PHE:CE2	1:p:373:ALA:HB3	2.51	0.46
1:p:456:GLN:NE2	1:p:459:SER:O	2.44	0.46
1:q:434:GLN:HE22	1:r:357:PRO:HB3	1.81	0.46
1:q:516:LEU:HD12	1:s:483:PRO:HG3	1.98	0.46
1:r:456:GLN:NE2	1:r:459:SER:O	2.44	0.46
1:r:614:TRP:NE1	1:s:634:ASN:HD22	2.14	0.46
1:s:265:ARG:HD2	1:s:279:PHE:HE1	1.79	0.46
1:t:231:SER:HB2	1:t:322:PHE:HB2	1.96	0.46
1:t:265:ARG:HD2	1:t:279:PHE:HE1	1.79	0.46
1:u:490:GLN:O	1:u:542:MET:HG2	2.15	0.46
1:v:493:PHE:N	1:v:502:ASN:HD21	2.00	0.46
1:w:483:PRO:HG3	1:x:516:LEU:HD12	1.98	0.46
1:w:719:GLN:CB	1:w:731:PRO:HG2	2.46	0.46
1:x:493:PHE:N	1:x:502:ASN:HD21	2.00	0.46
1:y:371:PHE:CE2	1:y:373:ALA:HB3	2.51	0.46
1:z:408:MET:HE3	1:4:234:TRP:HB2	1.98	0.46
1:1:439:LEU:HD21	1:1:743:LEU:HD23	1.98	0.46
1:2:360:LEU:HG	1:2:653:GLN:HE21	1.80	0.46
1:2:637:HIS:HA	2:2:801:D5M:H2'2	1.97	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:3:634:ASN:HD22	1:4:614:TRP:NE1	2.13	0.46
1:5:294:HIS:ND1	1:5:370:PRO:HB3	2.31	0.46
1:5:449:TRP:NE1	1:6:549:SER:OG	2.30	0.46
1:A:231:SER:HB2	1:A:322:PHE:HB2	1.96	0.46
1:A:319:PHE:HD1	1:A:688:VAL:HG22	1.81	0.46
1:A:483:PRO:HG3	1:G:516:LEU:HD12	1.97	0.46
1:B:294:HIS:ND1	1:B:370:PRO:HB3	2.31	0.46
1:C:408:MET:HE3	1:D:234:TRP:HB2	1.98	0.46
1:C:456:GLN:NE2	1:C:459:SER:O	2.44	0.46
1:C:516:LEU:HD12	1:M:483:PRO:HG3	1.98	0.46
1:C:549:SER:HG	1:M:449:TRP:HE1	1.59	0.46
1:D:614:TRP:NE1	1:N:634:ASN:HD22	2.13	0.46
1:D:637:HIS:HA	2:D:801:D5M:H2'2	1.97	0.46
1:E:294:HIS:ND1	1:E:370:PRO:HB3	2.31	0.46
1:E:456:GLN:NE2	1:E:459:SER:O	2.44	0.46
1:E:719:GLN:CB	1:E:731:PRO:HG2	2.46	0.46
1:G:265:ARG:HD2	1:G:279:PHE:HE1	1.79	0.46
1:G:371:PHE:CE2	1:G:373:ALA:HB3	2.51	0.46
1:H:265:ARG:HD2	1:H:279:PHE:HE1	1.79	0.46
1:I:234:TRP:HB2	1:J:408:MET:HE3	1.98	0.46
1:M:319:PHE:HD1	1:M:688:VAL:HG22	1.81	0.46
1:N:483:PRO:HG3	1:P:516:LEU:HD12	1.98	0.46
1:N:489:ASP:HB3	1:N:512:LYS:HD3	1.97	0.46
1:O:483:PRO:HG3	1:m:516:LEU:HD12	1.97	0.46
1:P:248:ARG:HB3	1:P:689:GLU:HG3	1.97	0.46
1:R:516:LEU:HD12	1:U:483:PRO:HG3	1.98	0.46
1:S:371:PHE:CE2	1:S:373:ALA:HB3	2.51	0.46
1:S:489:ASP:HB3	1:S:512:LYS:HD3	1.97	0.46
1:S:637:HIS:HA	2:S:801:D5M:H2'2	1.97	0.46
1:T:371:PHE:CE2	1:T:373:ALA:HB3	2.51	0.46
1:U:265:ARG:HD2	1:U:279:PHE:HE1	1.79	0.46
1:U:439:LEU:HD21	1:U:743:LEU:HD23	1.98	0.46
1:U:489:ASP:HB3	1:U:512:LYS:HD3	1.97	0.46
1:V:294:HIS:ND1	1:V:370:PRO:HB3	2.31	0.46
1:V:319:PHE:HD1	1:V:688:VAL:HG22	1.81	0.46
1:X:294:HIS:ND1	1:X:370:PRO:HB3	2.31	0.46
1:a:371:PHE:CE2	1:a:373:ALA:HB3	2.51	0.46
1:b:371:PHE:CE2	1:b:373:ALA:HB3	2.51	0.46
1:d:319:PHE:HD1	1:d:688:VAL:HG22	1.81	0.46
1:d:360:LEU:HG	1:d:653:GLN:HE21	1.81	0.46
1:d:570:GLU:O	1:d:573:ILE:HG12	2.16	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:e:234:TRP:HB2	1:h:408:MET:HE3	1.98	0.46
1:e:360:LEU:HG	1:e:653:GLN:HE21	1.81	0.46
1:e:490:GLN:O	1:e:542:MET:HG2	2.15	0.46
1:f:294:HIS:ND1	1:f:370:PRO:HB3	2.31	0.46
1:f:371:PHE:CE2	1:f:373:ALA:HB3	2.51	0.46
1:g:456:GLN:NE2	1:g:459:SER:O	2.44	0.46
1:h:248:ARG:HB3	1:h:689:GLU:HG3	1.97	0.46
1:h:319:PHE:HD1	1:h:688:VAL:HG22	1.81	0.46
1:h:490:GLN:O	1:h:542:MET:HG2	2.15	0.46
1:i:483:PRO:HG3	1:j:516:LEU:HD12	1.98	0.46
1:i:489:ASP:HB3	1:i:512:LYS:HD3	1.97	0.46
1:i:614:TRP:NE1	1:j:634:ASN:HD22	2.14	0.46
1:k:319:PHE:HD1	1:k:688:VAL:HG22	1.81	0.46
1:k:637:HIS:HA	2:k:801:D5M:H2'2	1.97	0.46
1:m:371:PHE:CE2	1:m:373:ALA:HB3	2.51	0.46
1:n:570:GLU:O	1:n:573:ILE:HG12	2.16	0.46
1:p:410:ARG:H	1:p:413:ASN:HD22	1.64	0.46
1:q:319:PHE:HD1	1:q:688:VAL:HG22	1.81	0.46
1:q:549:SER:OG	1:s:449:TRP:NE1	2.30	0.46
1:r:371:PHE:CE2	1:r:373:ALA:HB3	2.51	0.46
1:s:439:LEU:HD21	1:s:743:LEU:HD23	1.98	0.46
1:t:371:PHE:CE2	1:t:373:ALA:HB3	2.51	0.46
1:t:439:LEU:HD21	1:t:743:LEU:HD23	1.98	0.46
1:t:634:ASN:HD22	1:v:614:TRP:NE1	2.13	0.46
1:x:637:HIS:HA	2:x:801:D5M:H2'2	1.97	0.46
1:y:410:ARG:H	1:y:413:ASN:HD22	1.64	0.46
1:2:319:PHE:HD1	1:2:688:VAL:HG22	1.81	0.46
1:2:439:LEU:HD21	1:2:743:LEU:HD23	1.98	0.46
1:3:439:LEU:HD21	1:3:743:LEU:HD23	1.98	0.46
1:3:637:HIS:HA	2:3:801:D5M:H2'2	1.97	0.46
1:5:489:ASP:HB3	1:5:512:LYS:HD3	1.97	0.46
1:7:231:SER:HB2	1:7:322:PHE:HB2	1.96	0.46
1:7:294:HIS:ND1	1:7:370:PRO:HB3	2.31	0.46
1:7:719:GLN:CB	1:7:731:PRO:HG2	2.46	0.46
1:A:570:GLU:O	1:A:573:ILE:HG12	2.16	0.46
1:F:371:PHE:CE2	1:F:373:ALA:HB3	2.51	0.46
1:F:410:ARG:H	1:F:413:ASN:HD22	1.64	0.46
1:G:589:THR:HG1	1:G:599:THR:HG1	1.63	0.46
1:H:294:HIS:ND1	1:H:370:PRO:HB3	2.31	0.46
1:H:449:TRP:NE1	1:W:549:SER:OG	2.30	0.46
1:H:483:PRO:HG3	1:W:516:LEU:HD12	1.98	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:319:PHE:HD1	1:J:688:VAL:HG22	1.81	0.46
1:J:360:LEU:HG	1:J:653:GLN:HE21	1.81	0.46
1:J:410:ARG:H	1:J:413:ASN:HD22	1.64	0.46
1:J:582:ASP:OD1	1:J:583:ALA:N	2.46	0.46
1:J:637:HIS:HA	2:J:801:D5M:H2'2	1.97	0.46
1:K:371:PHE:CE2	1:K:373:ALA:HB3	2.51	0.46
1:L:371:PHE:CE2	1:L:373:ALA:HB3	2.51	0.46
1:M:294:HIS:ND1	1:M:370:PRO:HB3	2.31	0.46
1:M:410:ARG:H	1:M:413:ASN:HD22	1.64	0.46
1:N:320:ARG:HB3	1:N:416:GLU:HG3	1.96	0.46
1:P:489:ASP:HB3	1:P:512:LYS:HD3	1.97	0.46
1:R:319:PHE:HD1	1:R:688:VAL:HG22	1.81	0.46
1:R:614:TRP:NE1	1:S:634:ASN:HD22	2.13	0.46
1:R:637:HIS:HA	2:R:801:D5M:H2'2	1.97	0.46
1:S:294:HIS:ND1	1:S:370:PRO:HB3	2.31	0.46
1:S:410:ARG:H	1:S:413:ASN:HD22	1.64	0.46
1:S:614:TRP:NE1	1:U:634:ASN:HD22	2.14	0.46
1:T:637:HIS:HA	2:T:801:D5M:H2'2	1.97	0.46
1:U:234:TRP:HB2	1:e:408:MET:HE3	1.98	0.46
1:U:371:PHE:CE2	1:U:373:ALA:HB3	2.51	0.46
1:W:614:TRP:NE1	1:Y:634:ASN:HD22	2.13	0.46
1:X:408:MET:HE3	1:f:234:TRP:HB2	1.98	0.46
1:Y:294:HIS:ND1	1:Y:370:PRO:HB3	2.31	0.46
1:a:248:ARG:HB3	1:a:689:GLU:HG3	1.97	0.46
1:a:614:TRP:NE1	1:8:634:ASN:HD22	2.14	0.46
1:a:637:HIS:HA	2:a:801:D5M:H2'2	1.97	0.46
1:b:294:HIS:ND1	1:b:370:PRO:HB3	2.31	0.46
1:b:319:PHE:HD1	1:b:688:VAL:HG22	1.81	0.46
1:c:360:LEU:HG	1:c:653:GLN:HE21	1.80	0.46
1:c:371:PHE:CE2	1:c:373:ALA:HB3	2.51	0.46
1:d:434:GLN:HE22	1:l:357:PRO:HB3	1.80	0.46
1:e:371:PHE:CE2	1:e:373:ALA:HB3	2.51	0.46
1:h:234:TRP:HB2	1:i:408:MET:HE3	1.98	0.46
1:h:360:LEU:HG	1:h:653:GLN:HE21	1.81	0.46
1:j:439:LEU:HD21	1:j:743:LEU:HD23	1.98	0.46
1:l:294:HIS:ND1	1:l:370:PRO:HB3	2.31	0.46
1:n:319:PHE:HD1	1:n:688:VAL:HG22	1.81	0.46
1:n:360:LEU:HG	1:n:653:GLN:HE21	1.81	0.46
1:p:294:HIS:ND1	1:p:370:PRO:HB3	2.31	0.46
1:p:489:ASP:HB3	1:p:512:LYS:HD3	1.97	0.46
1:r:410:ARG:H	1:r:413:ASN:HD22	1.64	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:r:637:HIS:HA	2:r:801:D5M:H2'2	1.97	0.46
1:s:371:PHE:CE2	1:s:373:ALA:HB3	2.51	0.46
1:t:637:HIS:HA	2:t:801:D5M:H2'2	1.97	0.46
1:v:231:SER:HB2	1:v:322:PHE:HB2	1.96	0.46
1:v:570:GLU:O	1:v:573:ILE:HG12	2.16	0.46
1:w:294:HIS:ND1	1:w:370:PRO:HB3	2.31	0.46
1:w:456:GLN:NE2	1:w:459:SER:O	2.44	0.46
1:1:294:HIS:ND1	1:1:370:PRO:HB3	2.31	0.46
1:2:410:ARG:H	1:2:413:ASN:HD22	1.64	0.46
1:3:371:PHE:CE2	1:3:373:ALA:HB3	2.51	0.46
1:5:265:ARG:HD2	1:5:279:PHE:HE1	1.79	0.46
1:5:439:LEU:HD21	1:5:743:LEU:HD23	1.98	0.46
1:5:483:PRO:HG3	1:6:516:LEU:HD12	1.98	0.46
1:5:637:HIS:HA	2:5:801:D5M:H2'2	1.97	0.46
1:6:614:TRP:NE1	1:7:634:ASN:HD22	2.13	0.46
1:A:493:PHE:N	1:A:502:ASN:HD21	2.00	0.46
1:C:637:HIS:HA	2:C:801:D5M:H2'2	1.97	0.46
1:D:294:HIS:ND1	1:D:370:PRO:HB3	2.31	0.46
1:D:570:GLU:O	1:D:573:ILE:HG12	2.16	0.46
1:F:516:LEU:HD12	1:Q:483:PRO:HG3	1.98	0.46
1:G:637:HIS:HA	2:G:801:D5M:H2'2	1.97	0.46
1:G:719:GLN:CB	1:G:731:PRO:HG2	2.46	0.46
1:H:614:TRP:NE1	1:W:634:ASN:HD22	2.14	0.46
1:I:490:GLN:O	1:I:542:MET:HG2	2.15	0.46
1:J:483:PRO:HG3	1:L:516:LEU:HD12	1.98	0.46
1:L:294:HIS:ND1	1:L:370:PRO:HB3	2.31	0.46
1:M:234:TRP:HB2	1:N:408:MET:HE3	1.98	0.46
1:M:408:MET:HE3	1:c:234:TRP:HB2	1.98	0.46
1:N:319:PHE:HD1	1:N:688:VAL:HG22	1.81	0.46
1:O:357:PRO:HB3	1:n:434:GLN:HE22	1.81	0.46
1:O:489:ASP:HB3	1:O:512:LYS:HD3	1.97	0.46
1:P:371:PHE:CE2	1:P:373:ALA:HB3	2.51	0.46
1:P:439:LEU:HD21	1:P:743:LEU:HD23	1.98	0.46
1:P:719:GLN:CB	1:P:731:PRO:HG2	2.46	0.46
1:Q:294:HIS:ND1	1:Q:370:PRO:HB3	2.31	0.46
1:T:614:TRP:NE1	1:d:634:ASN:HD22	2.13	0.46
1:V:489:ASP:HB3	1:V:512:LYS:HD3	1.97	0.46
1:V:634:ASN:HD22	1:X:614:TRP:NE1	2.13	0.46
1:W:483:PRO:HG3	1:Y:516:LEU:HD12	1.98	0.46
1:Y:371:PHE:CE2	1:Y:373:ALA:HB3	2.51	0.46
1:Y:410:ARG:H	1:Y:413:ASN:HD22	1.64	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Z:248:ARG:HB3	1:Z:689:GLU:HG3	1.97	0.46
1:Z:516:LEU:HD12	1:3:483:PRO:HG3	1.98	0.46
1:Z:634:ASN:HD22	1:3:614:TRP:NE1	2.14	0.46
1:a:319:PHE:HD1	1:a:688:VAL:HG22	1.81	0.46
1:a:483:PRO:HG3	1:8:516:LEU:HD12	1.98	0.46
1:b:234:TRP:HB2	1:o:408:MET:HE3	1.98	0.46
1:f:719:GLN:CB	1:f:731:PRO:HG2	2.46	0.46
1:g:516:LEU:HD12	1:h:483:PRO:HG3	1.98	0.46
1:g:637:HIS:HA	2:g:801:D5M:H2'2	1.97	0.46
1:i:294:HIS:ND1	1:i:370:PRO:HB3	2.31	0.46
1:i:319:PHE:HD1	1:i:688:VAL:HG22	1.81	0.46
1:i:634:ASN:HD22	1:k:614:TRP:NE1	2.13	0.46
1:j:371:PHE:CE2	1:j:373:ALA:HB3	2.51	0.46
1:k:294:HIS:ND1	1:k:370:PRO:HB3	2.31	0.46
1:k:570:GLU:O	1:k:573:ILE:HG12	2.16	0.46
1:l:489:ASP:HB3	1:l:512:LYS:HD3	1.97	0.46
1:m:637:HIS:HA	2:m:801:D5M:H2'2	1.97	0.46
1:o:294:HIS:ND1	1:o:370:PRO:HB3	2.31	0.46
1:o:570:GLU:O	1:o:573:ILE:HG12	2.16	0.46
1:p:439:LEU:HD21	1:p:743:LEU:HD23	1.98	0.46
1:r:294:HIS:ND1	1:r:370:PRO:HB3	2.31	0.46
1:r:570:GLU:O	1:r:573:ILE:HG12	2.16	0.46
1:t:386:LEU:N	1:v:433:ASN:O	2.45	0.46
1:t:614:TRP:NE1	1:u:634:ASN:HD22	2.13	0.46
1:u:234:TRP:HB2	1:2:408:MET:HE3	1.98	0.46
1:u:483:PRO:HG3	1:v:516:LEU:HD12	1.98	0.46
1:v:265:ARG:HD2	1:v:279:PHE:HE1	1.79	0.46
1:x:294:HIS:ND1	1:x:370:PRO:HB3	2.31	0.46
1:y:582:ASP:OD1	1:y:583:ALA:N	2.46	0.46
1:z:294:HIS:ND1	1:z:370:PRO:HB3	2.31	0.46
1:z:371:PHE:CE2	1:z:373:ALA:HB3	2.51	0.46
1:z:516:LEU:HD12	1:2:483:PRO:HG3	1.98	0.46
1:2:371:PHE:CE2	1:2:373:ALA:HB3	2.51	0.46
1:3:248:ARG:HB3	1:3:689:GLU:HG3	1.97	0.46
1:3:589:THR:OG1	1:3:599:THR:OG1	2.30	0.46
1:4:371:PHE:CE2	1:4:373:ALA:HB3	2.51	0.46
1:5:582:ASP:OD1	1:5:583:ALA:N	2.46	0.46
1:5:614:TRP:NE1	1:6:634:ASN:HD22	2.13	0.46
1:7:371:PHE:CE2	1:7:373:ALA:HB3	2.51	0.46
1:A:234:TRP:HB2	1:E:408:MET:HE3	1.98	0.46
1:A:265:ARG:HD2	1:A:279:PHE:HE1	1.79	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:433:ASN:O	1:G:386:LEU:N	2.45	0.46
1:B:634:ASN:HD22	1:L:614:TRP:NE1	2.13	0.46
1:I:320:ARG:HB3	1:I:416:GLU:HG3	1.96	0.46
1:K:719:GLN:CB	1:K:731:PRO:HG2	2.46	0.46
1:L:570:GLU:O	1:L:573:ILE:HG12	2.16	0.46
1:N:248:ARG:HB3	1:N:689:GLU:HG3	1.97	0.46
1:N:294:HIS:ND1	1:N:370:PRO:HB3	2.31	0.46
1:O:294:HIS:ND1	1:O:370:PRO:HB3	2.31	0.46
1:O:360:LEU:HG	1:O:653:GLN:HE21	1.80	0.46
1:P:319:PHE:HD1	1:P:688:VAL:HG22	1.81	0.46
1:Q:319:PHE:HD1	1:Q:688:VAL:HG22	1.81	0.46
1:Q:493:PHE:N	1:Q:502:ASN:HD21	2.00	0.46
1:R:570:GLU:O	1:R:573:ILE:HG12	2.16	0.46
1:S:570:GLU:O	1:S:573:ILE:HG12	2.16	0.46
1:T:719:GLN:CB	1:T:731:PRO:HG2	2.46	0.46
1:V:439:LEU:HD21	1:V:743:LEU:HD23	1.98	0.46
1:X:570:GLU:O	1:X:573:ILE:HG12	2.16	0.46
1:Z:582:ASP:OD1	1:Z:583:ALA:N	2.46	0.46
1:a:294:HIS:ND1	1:a:370:PRO:HB3	2.31	0.46
1:b:719:GLN:CB	1:b:731:PRO:HG2	2.46	0.46
1:c:570:GLU:O	1:c:573:ILE:HG12	2.16	0.46
1:d:614:TRP:NE1	1:l:634:ASN:HD22	2.14	0.46
1:f:319:PHE:HD1	1:f:688:VAL:HG22	1.81	0.46
1:f:408:MET:HE3	1:z:234:TRP:HB2	1.99	0.46
1:h:410:ARG:H	1:h:413:ASN:HD22	1.64	0.46
1:i:719:GLN:CB	1:i:731:PRO:HG2	2.46	0.46
1:j:408:MET:HE3	1:l:234:TRP:HB2	1.98	0.46
1:j:719:GLN:CB	1:j:731:PRO:HG2	2.46	0.46
1:k:248:ARG:HB3	1:k:689:GLU:HG3	1.97	0.46
1:k:439:LEU:HD21	1:k:743:LEU:HD23	1.98	0.46
1:l:319:PHE:HD1	1:l:688:VAL:HG22	1.81	0.46
1:l:360:LEU:HG	1:l:653:GLN:HE21	1.81	0.46
1:m:719:GLN:CB	1:m:731:PRO:HG2	2.46	0.46
1:q:614:TRP:NE1	1:r:634:ASN:HD22	2.14	0.46
1:q:637:HIS:HA	2:q:801:D5M:H2'2	1.97	0.46
1:r:489:ASP:HB3	1:r:512:LYS:HD3	1.97	0.46
1:t:719:GLN:CB	1:t:731:PRO:HG2	2.46	0.46
1:u:439:LEU:HD21	1:u:743:LEU:HD23	1.98	0.46
1:v:319:PHE:HD1	1:v:688:VAL:HG22	1.81	0.46
1:w:637:HIS:HA	2:w:801:D5M:H2'2	1.97	0.46
1:x:719:GLN:CB	1:x:731:PRO:HG2	2.46	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:z:434:GLN:HE22	1:1:357:PRO:HB3	1.80	0.46
1:z:634:ASN:HD22	1:2:614:TRP:NE1	2.14	0.46
1:3:294:HIS:ND1	1:3:370:PRO:HB3	2.31	0.46
1:3:319:PHE:HD1	1:3:688:VAL:HG22	1.81	0.46
1:4:360:LEU:HG	1:4:653:GLN:HE21	1.81	0.46
1:4:570:GLU:O	1:4:573:ILE:HG12	2.16	0.46
1:4:719:GLN:CB	1:4:731:PRO:HG2	2.46	0.46
1:5:371:PHE:CE2	1:5:373:ALA:HB3	2.51	0.46
1:6:483:PRO:HG3	1:7:516:LEU:HD12	1.98	0.46
1:8:248:ARG:HB3	1:8:689:GLU:HG3	1.97	0.46
1:8:582:ASP:OD1	1:8:583:ALA:N	2.46	0.46
1:8:637:HIS:HA	2:8:801:D5M:H2'2	1.97	0.46
1:A:719:GLN:CB	1:A:731:PRO:HG2	2.46	0.45
1:F:570:GLU:O	1:F:573:ILE:HG12	2.16	0.45
1:G:410:ARG:H	1:G:413:ASN:HD22	1.64	0.45
1:H:371:PHE:CE2	1:H:373:ALA:HB3	2.51	0.45
1:J:371:PHE:CE2	1:J:373:ALA:HB3	2.51	0.45
1:J:719:GLN:CB	1:J:731:PRO:HG2	2.46	0.45
1:K:570:GLU:O	1:K:573:ILE:HG12	2.16	0.45
1:N:719:GLN:CB	1:N:731:PRO:HG2	2.46	0.45
1:O:234:TRP:HB2	1:P:408:MET:HE3	1.98	0.45
1:O:570:GLU:O	1:O:573:ILE:HG12	2.16	0.45
1:Q:719:GLN:CB	1:Q:731:PRO:HG2	2.46	0.45
1:R:483:PRO:HG3	1:S:516:LEU:HD12	1.98	0.45
1:S:234:TRP:HB2	1:d:408:MET:HE3	1.98	0.45
1:U:582:ASP:OD1	1:U:583:ALA:N	2.46	0.45
1:V:360:LEU:HG	1:V:653:GLN:HE21	1.81	0.45
1:W:410:ARG:H	1:W:413:ASN:HD22	1.64	0.45
1:W:489:ASP:HB3	1:W:512:LYS:HD3	1.97	0.45
1:Y:231:SER:HB2	1:Y:322:PHE:HB2	1.96	0.45
1:Z:637:HIS:HA	2:Z:801:D5M:H2'2	1.97	0.45
1:e:570:GLU:O	1:e:573:ILE:HG12	2.16	0.45
1:i:248:ARG:HB3	1:i:689:GLU:HG3	1.97	0.45
1:i:371:PHE:CE2	1:i:373:ALA:HB3	2.51	0.45
1:j:319:PHE:HD1	1:j:688:VAL:HG22	1.81	0.45
1:n:582:ASP:OD1	1:n:583:ALA:N	2.46	0.45
1:o:248:ARG:HB3	1:o:689:GLU:HG3	1.98	0.45
1:o:614:TRP:NE1	1:p:634:ASN:HD22	2.13	0.45
1:p:408:MET:HE3	1:6:234:TRP:HB2	1.98	0.45
1:q:570:GLU:O	1:q:573:ILE:HG12	2.16	0.45
1:r:248:ARG:HB3	1:r:689:GLU:HG3	1.97	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:s:570:GLU:O	1:s:573:ILE:HG12	2.16	0.45
1:t:410:ARG:H	1:t:413:ASN:HD22	1.64	0.45
1:t:516:LEU:HD12	1:v:483:PRO:HG3	1.97	0.45
1:v:408:MET:HE3	1:l:234:TRP:HB2	1.98	0.45
1:v:719:GLN:CB	1:v:731:PRO:HG2	2.46	0.45
1:x:483:PRO:HG3	1:y:516:LEU:HD12	1.98	0.45
1:y:570:GLU:O	1:y:573:ILE:HG12	2.16	0.45
1:y:719:GLN:CB	1:y:731:PRO:HG2	2.46	0.45
1:z:570:GLU:O	1:z:573:ILE:HG12	2.16	0.45
1:z:614:TRP:NE1	1:l:634:ASN:HD22	2.13	0.45
1:2:719:GLN:CB	1:2:731:PRO:HG2	2.46	0.45
1:4:319:PHE:HD1	1:4:688:VAL:HG22	1.81	0.45
1:5:360:LEU:HG	1:5:653:GLN:HE21	1.80	0.45
1:5:408:MET:HE3	1:8:234:TRP:HB2	1.98	0.45
1:6:489:ASP:HB3	1:6:512:LYS:HD3	1.97	0.45
1:7:360:LEU:HG	1:7:653:GLN:HE21	1.81	0.45
1:7:410:ARG:H	1:7:413:ASN:HD22	1.64	0.45
1:B:371:PHE:CE2	1:B:373:ALA:HB3	2.51	0.45
1:C:294:HIS:ND1	1:C:370:PRO:HB3	2.31	0.45
1:D:248:ARG:HB3	1:D:689:GLU:HG3	1.97	0.45
1:D:371:PHE:CE2	1:D:373:ALA:HB3	2.51	0.45
1:D:439:LEU:HD21	1:D:743:LEU:HD23	1.98	0.45
1:F:354:TYR:OH	1:F:650:PRO:O	2.27	0.45
1:F:582:ASP:OD1	1:F:583:ALA:N	2.46	0.45
1:G:319:PHE:HD1	1:G:688:VAL:HG22	1.81	0.45
1:G:327:LYS:HZ3	1:G:340:ASN:HB3	1.82	0.45
1:G:483:PRO:HG3	1:I:516:LEU:HD12	1.97	0.45
1:G:570:GLU:O	1:G:573:ILE:HG12	2.16	0.45
1:H:582:ASP:OD1	1:H:583:ALA:N	2.46	0.45
1:I:439:LEU:HD21	1:I:743:LEU:HD23	1.98	0.45
1:K:294:HIS:ND1	1:K:370:PRO:HB3	2.31	0.45
1:K:319:PHE:HD1	1:K:688:VAL:HG22	1.81	0.45
1:K:360:LEU:HG	1:K:653:GLN:HE21	1.81	0.45
1:K:410:ARG:H	1:K:413:ASN:HD22	1.64	0.45
1:N:371:PHE:CE2	1:N:373:ALA:HB3	2.51	0.45
1:N:410:ARG:H	1:N:413:ASN:HD22	1.64	0.45
1:O:319:PHE:HD1	1:O:688:VAL:HG22	1.81	0.45
1:P:360:LEU:HG	1:P:653:GLN:HE21	1.81	0.45
1:S:248:ARG:HB3	1:S:689:GLU:HG3	1.97	0.45
1:T:248:ARG:HB3	1:T:689:GLU:HG3	1.97	0.45
1:T:516:LEU:HD12	1:l:483:PRO:HG3	1.98	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:U:570:GLU:O	1:U:573:ILE:HG12	2.16	0.45
1:X:234:TRP:HB2	1:Y:408:MET:HE3	1.98	0.45
1:X:248:ARG:HB3	1:X:689:GLU:HG3	1.98	0.45
1:Y:360:LEU:HG	1:Y:653:GLN:HE21	1.81	0.45
1:c:410:ARG:H	1:c:413:ASN:HD22	1.64	0.45
1:i:439:LEU:HD21	1:i:743:LEU:HD23	1.98	0.45
1:k:371:PHE:CE2	1:k:373:ALA:HB3	2.51	0.45
1:n:408:MET:HE3	1:r:234:TRP:HB2	1.98	0.45
1:o:234:TRP:HB2	1:7:408:MET:HE3	1.98	0.45
1:o:410:ARG:H	1:o:413:ASN:HD22	1.64	0.45
1:q:371:PHE:CE2	1:q:373:ALA:HB3	2.51	0.45
1:s:582:ASP:OD1	1:s:583:ALA:N	2.46	0.45
1:t:434:GLN:HE22	1:u:357:PRO:HB3	1.80	0.45
1:t:570:GLU:O	1:t:573:ILE:HG12	2.16	0.45
1:u:320:ARG:HB3	1:u:416:GLU:HG3	1.96	0.45
1:u:719:GLN:CB	1:u:731:PRO:HG2	2.46	0.45
1:x:319:PHE:HD1	1:x:688:VAL:HG22	1.81	0.45
1:4:410:ARG:H	1:4:413:ASN:HD22	1.64	0.45
1:5:719:GLN:CB	1:5:731:PRO:HG2	2.46	0.45
1:6:410:ARG:H	1:6:413:ASN:HD22	1.64	0.45
1:C:570:GLU:O	1:C:573:ILE:HG12	2.16	0.45
1:D:386:LEU:N	1:P:433:ASN:O	2.46	0.45
1:F:701:ARG:NH1	1:F:740:THR:OG1	2.50	0.45
1:F:719:GLN:CB	1:F:731:PRO:HG2	2.46	0.45
1:I:319:PHE:HD1	1:I:688:VAL:HG22	1.81	0.45
1:I:719:GLN:CB	1:I:731:PRO:HG2	2.46	0.45
1:K:234:TRP:HB2	1:L:408:MET:HE3	1.99	0.45
1:K:456:GLN:NE2	1:K:459:SER:O	2.44	0.45
1:L:489:ASP:HB3	1:L:512:LYS:HD3	1.97	0.45
1:M:516:LEU:HD12	1:b:483:PRO:HG3	1.98	0.45
1:N:434:GLN:HE22	1:P:357:PRO:HB3	1.81	0.45
1:O:516:LEU:HD12	1:n:483:PRO:HG3	1.98	0.45
1:O:634:ASN:HD22	1:n:614:TRP:NE1	2.14	0.45
1:S:449:TRP:NE1	1:U:549:SER:OG	2.30	0.45
1:T:483:PRO:HG3	1:d:516:LEU:HD12	1.98	0.45
1:V:408:MET:HE3	1:W:234:TRP:HB2	1.98	0.45
1:W:456:GLN:NE2	1:W:459:SER:O	2.44	0.45
1:X:410:ARG:H	1:X:413:ASN:HD22	1.64	0.45
1:Y:570:GLU:O	1:Y:573:ILE:HG12	2.16	0.45
1:Z:371:PHE:CE2	1:Z:373:ALA:HB3	2.51	0.45
1:Z:589:THR:OG1	1:Z:599:THR:OG1	2.30	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:a:570:GLU:O	1:a:573:ILE:HG12	2.16	0.45
1:c:434:GLN:HE22	1:o:357:PRO:HB3	1.80	0.45
1:c:589:THR:HG1	1:c:599:THR:HG1	1.63	0.45
1:d:719:GLN:CB	1:d:731:PRO:HG2	2.46	0.45
1:e:410:ARG:H	1:e:413:ASN:HD22	1.64	0.45
1:e:637:HIS:HA	2:e:801:D5M:H2'2	1.97	0.45
1:f:483:PRO:HG3	1:h:516:LEU:HD12	1.98	0.45
1:g:294:HIS:ND1	1:g:370:PRO:HB3	2.31	0.45
1:h:371:PHE:CE2	1:h:373:ALA:HB3	2.51	0.45
1:i:410:ARG:H	1:i:413:ASN:HD22	1.64	0.45
1:i:449:TRP:NE1	1:j:549:SER:OG	2.30	0.45
1:l:570:GLU:O	1:l:573:ILE:HG12	2.16	0.45
1:m:248:ARG:HB3	1:m:689:GLU:HG3	1.98	0.45
1:n:719:GLN:CB	1:n:731:PRO:HG2	2.46	0.45
1:o:719:GLN:CB	1:o:731:PRO:HG2	2.46	0.45
1:p:360:LEU:HG	1:p:653:GLN:HE21	1.81	0.45
1:q:483:PRO:HG3	1:r:516:LEU:HD12	1.98	0.45
1:s:294:HIS:ND1	1:s:370:PRO:HB3	2.31	0.45
1:t:319:PHE:HD1	1:t:688:VAL:HG22	1.81	0.45
1:u:354:TYR:OH	1:u:650:PRO:O	2.27	0.45
1:z:360:LEU:HG	1:z:653:GLN:HE21	1.81	0.45
1:3:549:SER:OG	1:4:449:TRP:NE1	2.30	0.45
1:3:570:GLU:O	1:3:573:ILE:HG12	2.16	0.45
1:4:456:GLN:NE2	1:4:459:SER:O	2.44	0.45
1:6:371:PHE:CE2	1:6:373:ALA:HB3	2.51	0.45
1:7:570:GLU:O	1:7:573:ILE:HG12	2.16	0.45
1:A:439:LEU:HD21	1:A:743:LEU:HD23	1.98	0.45
1:D:483:PRO:HG3	1:N:516:LEU:HD12	1.98	0.45
1:E:319:PHE:HD1	1:E:688:VAL:HG22	1.81	0.45
1:E:371:PHE:CE2	1:E:373:ALA:HB3	2.51	0.45
1:E:637:HIS:HA	2:E:801:D5M:H2'2	1.97	0.45
1:G:248:ARG:HB3	1:G:689:GLU:HG3	1.97	0.45
1:G:434:GLN:HE22	1:I:357:PRO:HB3	1.80	0.45
1:H:354:TYR:OH	1:H:650:PRO:O	2.27	0.45
1:H:570:GLU:O	1:H:573:ILE:HG12	2.16	0.45
1:H:719:GLN:CB	1:H:731:PRO:HG2	2.46	0.45
1:L:360:LEU:HG	1:L:653:GLN:HE21	1.81	0.45
1:N:354:TYR:OH	1:N:650:PRO:O	2.27	0.45
1:N:360:LEU:HG	1:N:653:GLN:HE21	1.81	0.45
1:N:570:GLU:O	1:N:573:ILE:HG12	2.16	0.45
1:P:570:GLU:O	1:P:573:ILE:HG12	2.16	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:R:248:ARG:HB3	1:R:689:GLU:HG3	1.98	0.45
1:R:371:PHE:CE2	1:R:373:ALA:HB3	2.51	0.45
1:U:410:ARG:H	1:U:413:ASN:HD22	1.64	0.45
1:W:371:PHE:CE2	1:W:373:ALA:HB3	2.51	0.45
1:X:357:PRO:HB3	1:e:434:GLN:HE22	1.80	0.45
1:X:549:SER:OG	1:e:449:TRP:NE1	2.30	0.45
1:Z:439:LEU:HD21	1:Z:743:LEU:HD23	1.98	0.45
1:a:360:LEU:HG	1:a:653:GLN:HE21	1.81	0.45
1:b:570:GLU:O	1:b:573:ILE:HG12	2.16	0.45
1:c:319:PHE:HD1	1:c:688:VAL:HG22	1.81	0.45
1:c:456:GLN:NE2	1:c:459:SER:O	2.44	0.45
1:d:371:PHE:CE2	1:d:373:ALA:HB3	2.51	0.45
1:d:489:ASP:HB3	1:d:512:LYS:HD3	1.97	0.45
1:d:582:ASP:OD1	1:d:583:ALA:N	2.46	0.45
1:e:294:HIS:ND1	1:e:370:PRO:HB3	2.31	0.45
1:e:589:THR:HG1	1:e:599:THR:HG1	1.63	0.45
1:g:570:GLU:O	1:g:573:ILE:HG12	2.16	0.45
1:h:570:GLU:O	1:h:573:ILE:HG12	2.16	0.45
1:i:360:LEU:HG	1:i:653:GLN:HE21	1.81	0.45
1:j:360:LEU:HG	1:j:653:GLN:HE21	1.81	0.45
1:l:371:PHE:CE2	1:l:373:ALA:HB3	2.51	0.45
1:l:701:ARG:NH1	1:l:740:THR:OG1	2.50	0.45
1:n:371:PHE:CE2	1:n:373:ALA:HB3	2.51	0.45
1:s:319:PHE:HD1	1:s:688:VAL:HG22	1.81	0.45
1:s:410:ARG:H	1:s:413:ASN:HD22	1.64	0.45
1:u:319:PHE:HD1	1:u:688:VAL:HG22	1.81	0.45
1:u:360:LEU:HG	1:u:653:GLN:HE21	1.80	0.45
1:y:701:ARG:NH1	1:y:740:THR:OG1	2.50	0.45
1:1:354:TYR:OH	1:1:650:PRO:O	2.27	0.45
1:1:371:PHE:CE2	1:1:373:ALA:HB3	2.51	0.45
1:3:360:LEU:HG	1:3:653:GLN:HE21	1.81	0.45
1:4:294:HIS:ND1	1:4:370:PRO:HB3	2.31	0.45
1:5:354:TYR:OH	1:5:650:PRO:O	2.27	0.45
1:5:516:LEU:HD12	1:7:483:PRO:HG3	1.98	0.45
1:8:371:PHE:CE2	1:8:373:ALA:HB3	2.51	0.45
1:8:701:ARG:NH1	1:8:740:THR:OG1	2.50	0.45
1:A:408:MET:HE3	1:B:234:TRP:HB2	1.99	0.45
1:A:634:ASN:HD22	1:I:614:TRP:NE1	2.13	0.45
1:H:360:LEU:HG	1:H:653:GLN:HE21	1.81	0.45
1:H:408:MET:HE3	1:Z:234:TRP:HB2	1.98	0.45
1:I:360:LEU:HG	1:I:653:GLN:HE21	1.81	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:371:PHE:CE2	1:I:373:ALA:HB3	2.51	0.45
1:L:439:LEU:HD21	1:L:743:LEU:HD23	1.98	0.45
1:M:371:PHE:CE2	1:M:373:ALA:HB3	2.51	0.45
1:M:570:GLU:O	1:M:573:ILE:HG12	2.16	0.45
1:N:256:PRO:HG3	1:m:665:PRO:HB2	1.97	0.45
1:N:439:LEU:HD21	1:N:743:LEU:HD23	1.98	0.45
1:O:701:ARG:NH1	1:O:740:THR:OG1	2.50	0.45
1:P:701:ARG:NH1	1:P:740:THR:OG1	2.50	0.45
1:Q:371:PHE:CE2	1:Q:373:ALA:HB3	2.51	0.45
1:T:294:HIS:ND1	1:T:370:PRO:HB3	2.31	0.45
1:T:360:LEU:HG	1:T:653:GLN:HE21	1.81	0.45
1:T:439:LEU:HD21	1:T:743:LEU:HD23	1.98	0.45
1:U:294:HIS:ND1	1:U:370:PRO:HB3	2.31	0.45
1:U:360:LEU:HG	1:U:653:GLN:HE21	1.81	0.45
1:X:719:GLN:CB	1:X:731:PRO:HG2	2.46	0.45
1:Y:637:HIS:HA	2:Y:801:D5M:H2'2	1.97	0.45
1:Z:357:PRO:HB3	1:3:434:GLN:HE22	1.81	0.45
1:Z:549:SER:OG	1:3:449:TRP:NE1	2.30	0.45
1:Z:701:ARG:NH1	1:Z:740:THR:OG1	2.50	0.45
1:a:434:GLN:HE22	1:8:357:PRO:HB3	1.80	0.45
1:b:493:PHE:N	1:b:502:ASN:HD21	2.00	0.45
1:c:294:HIS:ND1	1:c:370:PRO:HB3	2.31	0.45
1:c:637:HIS:HA	2:c:801:D5M:H2'2	1.97	0.45
1:d:701:ARG:NH1	1:d:740:THR:OG1	2.50	0.45
1:e:238:SER:OG	1:e:301:ASP:OD2	2.30	0.45
1:e:456:GLN:NE2	1:e:459:SER:O	2.44	0.45
1:f:570:GLU:O	1:f:573:ILE:HG12	2.16	0.45
1:i:516:LEU:HD12	1:k:483:PRO:HG3	1.98	0.45
1:i:570:GLU:O	1:i:573:ILE:HG12	2.16	0.45
1:j:433:ASN:O	1:k:386:LEU:N	2.46	0.45
1:j:507:VAL:HG13	1:j:543:GLN:NE2	2.32	0.45
1:j:570:GLU:O	1:j:573:ILE:HG12	2.16	0.45
1:k:410:ARG:H	1:k:413:ASN:HD22	1.64	0.45
1:m:439:LEU:HD21	1:m:743:LEU:HD23	1.98	0.45
1:n:701:ARG:NH1	1:n:740:THR:OG1	2.50	0.45
1:p:234:TRP:HB2	1:q:408:MET:HE3	1.98	0.45
1:q:248:ARG:HB3	1:q:689:GLU:HG3	1.97	0.45
1:q:719:GLN:CB	1:q:731:PRO:HG2	2.46	0.45
1:s:507:VAL:HG13	1:s:543:GLN:NE2	2.32	0.45
1:t:248:ARG:HB3	1:t:689:GLU:HG3	1.97	0.45
1:w:319:PHE:HD1	1:w:688:VAL:HG22	1.81	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:w:371:PHE:CE2	1:w:373:ALA:HB3	2.51	0.45
1:x:701:ARG:NH1	1:x:740:THR:OG1	2.50	0.45
1:y:294:HIS:ND1	1:y:370:PRO:HB3	2.31	0.45
1:z:439:LEU:HD21	1:z:743:LEU:HD23	1.98	0.45
1:7:637:HIS:HA	2:7:801:D5M:H2'2	1.97	0.45
1:8:439:LEU:HD21	1:8:743:LEU:HD23	1.98	0.45
1:B:516:LEU:HD12	1:L:483:PRO:HG3	1.98	0.45
1:C:357:PRO:HB3	1:M:434:GLN:HE22	1.80	0.45
1:C:371:PHE:CE2	1:C:373:ALA:HB3	2.51	0.45
1:D:701:ARG:NH1	1:D:740:THR:OG1	2.50	0.45
1:E:410:ARG:H	1:E:413:ASN:HD22	1.64	0.45
1:F:294:HIS:ND1	1:F:370:PRO:HB3	2.31	0.45
1:F:357:PRO:HB3	1:Q:434:GLN:HE22	1.80	0.45
1:F:408:MET:HE3	1:R:234:TRP:HB2	1.98	0.45
1:H:516:LEU:HD12	1:Y:483:PRO:HG3	1.98	0.45
1:I:354:TYR:OH	1:I:650:PRO:O	2.27	0.45
1:J:701:ARG:NH1	1:J:740:THR:OG1	2.50	0.45
1:L:507:VAL:HG13	1:L:543:GLN:NE2	2.32	0.45
1:O:371:PHE:CE2	1:O:373:ALA:HB3	2.51	0.45
1:Q:701:ARG:NH1	1:Q:740:THR:OG1	2.50	0.45
1:R:408:MET:HE3	1:V:234:TRP:HB2	1.98	0.45
1:T:319:PHE:HD1	1:T:688:VAL:HG22	1.81	0.45
1:T:449:TRP:NE1	1:d:549:SER:OG	2.30	0.45
1:U:319:PHE:HD1	1:U:688:VAL:HG22	1.81	0.45
1:U:507:VAL:HG13	1:U:543:GLN:NE2	2.32	0.45
1:W:570:GLU:O	1:W:573:ILE:HG12	2.16	0.45
1:W:637:HIS:HA	2:W:801:D5M:H2'2	1.97	0.45
1:X:319:PHE:HD1	1:X:688:VAL:HG22	1.81	0.45
1:X:371:PHE:CE2	1:X:373:ALA:HB3	2.51	0.45
1:X:507:VAL:HG13	1:X:543:GLN:NE2	2.32	0.45
1:b:701:ARG:NH1	1:b:740:THR:OG1	2.50	0.45
1:d:483:PRO:HG3	1:l:516:LEU:HD12	1.98	0.45
1:g:371:PHE:CE2	1:g:373:ALA:HB3	2.51	0.45
1:h:507:VAL:HG13	1:h:543:GLN:NE2	2.32	0.45
1:i:434:GLN:HE22	1:j:357:PRO:HB3	1.81	0.45
1:j:701:ARG:NH1	1:j:740:THR:OG1	2.50	0.45
1:k:507:VAL:HG13	1:k:543:GLN:NE2	2.32	0.45
1:k:701:ARG:NH1	1:k:740:THR:OG1	2.50	0.45
1:m:294:HIS:ND1	1:m:370:PRO:HB3	2.31	0.45
1:m:360:LEU:HG	1:m:653:GLN:HE21	1.81	0.45
1:n:248:ARG:HB3	1:n:689:GLU:HG3	1.97	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:n:489:ASP:HB3	1:n:512:LYS:HD3	1.97	0.45
1:o:371:PHE:CE2	1:o:373:ALA:HB3	2.51	0.45
1:o:507:VAL:HG13	1:o:543:GLN:NE2	2.32	0.45
1:s:637:HIS:HA	2:s:801:D5M:H2'2	1.97	0.45
1:t:483:PRO:HG3	1:u:516:LEU:HD12	1.98	0.45
1:u:371:PHE:CE2	1:u:373:ALA:HB3	2.51	0.45
1:u:637:HIS:HA	2:u:801:D5M:H2'2	1.97	0.45
1:w:360:LEU:HG	1:w:653:GLN:HE21	1.81	0.45
1:w:410:ARG:H	1:w:413:ASN:HD22	1.64	0.45
1:z:410:ARG:H	1:z:413:ASN:HD22	1.64	0.45
1:z:489:ASP:HB3	1:z:512:LYS:HD3	1.97	0.45
1:z:507:VAL:HG13	1:z:543:GLN:NE2	2.32	0.45
1:1:570:GLU:O	1:1:573:ILE:HG12	2.16	0.45
1:2:701:ARG:NH1	1:2:740:THR:OG1	2.50	0.45
1:6:456:GLN:NE2	1:6:459:SER:O	2.44	0.45
1:6:570:GLU:O	1:6:573:ILE:HG12	2.16	0.45
1:8:589:THR:OG1	1:8:599:THR:OG1	2.30	0.45
1:A:434:GLN:HE22	1:G:357:PRO:HB3	1.80	0.45
1:B:319:PHE:HD1	1:B:688:VAL:HG22	1.81	0.45
1:C:360:LEU:HG	1:C:653:GLN:HE21	1.81	0.45
1:C:507:VAL:HG13	1:C:543:GLN:NE2	2.32	0.45
1:I:507:VAL:HG13	1:I:543:GLN:NE2	2.32	0.45
1:I:637:HIS:HA	2:I:801:D5M:H2'2	1.97	0.45
1:J:294:HIS:ND1	1:J:370:PRO:HB3	2.31	0.45
1:K:265:ARG:HD2	1:K:279:PHE:HE1	1.79	0.45
1:L:456:GLN:NE2	1:L:459:SER:O	2.44	0.45
1:M:507:VAL:HG13	1:M:543:GLN:NE2	2.32	0.45
1:P:507:VAL:HG13	1:P:543:GLN:NE2	2.32	0.45
1:T:408:MET:HE3	1:i:234:TRP:HB2	1.99	0.45
1:T:507:VAL:HG13	1:T:543:GLN:NE2	2.32	0.45
1:T:570:GLU:O	1:T:573:ILE:HG12	2.16	0.45
1:U:637:HIS:HA	2:U:801:D5M:H2'2	1.97	0.45
1:V:516:LEU:HD12	1:X:483:PRO:HG3	1.98	0.45
1:W:294:HIS:ND1	1:W:370:PRO:HB3	2.31	0.45
1:Z:483:PRO:HG3	1:4:516:LEU:HD12	1.98	0.45
1:c:248:ARG:HB3	1:c:689:GLU:HG3	1.97	0.45
1:d:248:ARG:HB3	1:d:689:GLU:HG3	1.97	0.45
1:e:248:ARG:HB3	1:e:689:GLU:HG3	1.98	0.45
1:e:319:PHE:HD1	1:e:688:VAL:HG22	1.81	0.45
1:f:701:ARG:NH1	1:f:740:THR:OG1	2.50	0.45
1:g:357:PRO:HB3	1:h:434:GLN:HE22	1.80	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:g:360:LEU:HG	1:g:653:GLN:HE21	1.81	0.45
1:g:439:LEU:HD21	1:g:743:LEU:HD23	1.98	0.45
1:m:449:TRP:NE1	1:n:549:SER:OG	2.29	0.45
1:m:507:VAL:HG13	1:m:543:GLN:NE2	2.32	0.45
1:o:483:PRO:HG3	1:p:516:LEU:HD12	1.98	0.45
1:s:360:LEU:HG	1:s:653:GLN:HE21	1.81	0.45
1:u:507:VAL:HG13	1:u:543:GLN:NE2	2.32	0.45
1:v:294:HIS:ND1	1:v:370:PRO:HB3	2.31	0.45
1:v:439:LEU:HD21	1:v:743:LEU:HD23	1.98	0.45
1:x:371:PHE:CE2	1:x:373:ALA:HB3	2.51	0.45
1:x:434:GLN:HE22	1:y:357:PRO:HB3	1.80	0.45
1:1:483:PRO:HG3	1:2:516:LEU:HD12	1.98	0.45
1:5:570:GLU:O	1:5:573:ILE:HG12	2.16	0.45
1:6:294:HIS:ND1	1:6:370:PRO:HB3	2.31	0.45
1:6:637:HIS:HA	2:6:801:D5M:H2'2	1.97	0.45
1:A:294:HIS:ND1	1:A:370:PRO:HB3	2.31	0.45
1:B:570:GLU:O	1:B:573:ILE:HG12	2.16	0.45
1:D:360:LEU:HG	1:D:653:GLN:HE21	1.81	0.45
1:D:410:ARG:H	1:D:413:ASN:HD22	1.64	0.45
1:D:507:VAL:HG13	1:D:543:GLN:NE2	2.32	0.45
1:E:357:PRO:HB3	1:F:434:GLN:HE22	1.80	0.45
1:H:234:TRP:HB2	1:I:408:MET:HE3	1.98	0.45
1:H:507:VAL:HG13	1:H:543:GLN:NE2	2.32	0.45
1:K:483:PRO:HG3	1:a:516:LEU:HD12	1.98	0.45
1:K:516:LEU:HD12	1:8:483:PRO:HG3	1.98	0.45
1:L:410:ARG:H	1:L:413:ASN:HD22	1.64	0.45
1:M:701:ARG:NH1	1:M:740:THR:OG1	2.50	0.45
1:R:719:GLN:CB	1:R:731:PRO:HG2	2.46	0.45
1:S:483:PRO:HG3	1:U:516:LEU:HD12	1.98	0.45
1:X:701:ARG:NH1	1:X:740:THR:OG1	2.50	0.45
1:b:360:LEU:HG	1:b:653:GLN:HE21	1.81	0.45
1:c:449:TRP:NE1	1:o:549:SER:OG	2.30	0.45
1:d:294:HIS:ND1	1:d:370:PRO:HB3	2.31	0.45
1:g:507:VAL:HG13	1:g:543:GLN:NE2	2.32	0.45
1:m:319:PHE:HD1	1:m:688:VAL:HG22	1.81	0.45
1:m:570:GLU:O	1:m:573:ILE:HG12	2.16	0.45
1:n:294:HIS:ND1	1:n:370:PRO:HB3	2.31	0.45
1:o:319:PHE:HD1	1:o:688:VAL:HG22	1.81	0.45
1:o:701:ARG:NH1	1:o:740:THR:OG1	2.50	0.45
1:r:449:TRP:NE1	1:s:549:SER:OG	2.30	0.45
1:t:354:TYR:OH	1:t:650:PRO:O	2.27	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:t:357:PRO:HB3	1:v:434:GLN:HE22	1.80	0.45
1:t:360:LEU:HG	1:t:653:GLN:HE21	1.81	0.45
1:u:408:MET:HE3	1:5:234:TRP:HB2	1.98	0.45
1:w:493:PHE:N	1:w:502:ASN:HD21	2.00	0.45
1:x:507:VAL:HG13	1:x:543:GLN:NE2	2.32	0.45
1:5:507:VAL:HG13	1:5:543:GLN:NE2	2.32	0.45
1:B:354:TYR:OH	1:B:650:PRO:O	2.27	0.45
1:B:483:PRO:HG3	1:J:516:LEU:HD12	1.98	0.45
1:B:589:THR:OG1	1:B:599:THR:OG1	2.30	0.45
1:B:614:TRP:NE1	1:J:634:ASN:HD22	2.14	0.45
1:B:701:ARG:NH1	1:B:740:THR:OG1	2.50	0.45
1:C:439:LEU:HD21	1:C:743:LEU:HD23	1.98	0.45
1:D:516:LEU:HD12	1:P:483:PRO:HG3	1.98	0.45
1:E:360:LEU:HG	1:E:653:GLN:HE21	1.81	0.45
1:E:614:TRP:NE1	1:Q:634:ASN:HD22	2.13	0.45
1:F:439:LEU:HD21	1:F:743:LEU:HD23	1.98	0.45
1:G:360:LEU:HG	1:G:653:GLN:HE21	1.80	0.45
1:J:570:GLU:O	1:J:573:ILE:HG12	2.16	0.45
1:K:449:TRP:NE1	1:a:549:SER:OG	2.30	0.45
1:M:589:THR:OG1	1:M:599:THR:OG1	2.30	0.45
1:Q:507:VAL:HG13	1:Q:543:GLN:NE2	2.32	0.45
1:T:234:TRP:HB2	1:U:408:MET:HE3	1.98	0.45
1:V:701:ARG:NH1	1:V:740:THR:OG1	2.50	0.45
1:X:634:ASN:HD22	1:e:614:TRP:NE1	2.13	0.45
1:Z:294:HIS:ND1	1:Z:370:PRO:HB3	2.31	0.45
1:f:360:LEU:HG	1:f:653:GLN:HE21	1.81	0.45
1:f:493:PHE:N	1:f:502:ASN:HD21	2.00	0.45
1:h:701:ARG:NH1	1:h:740:THR:OG1	2.50	0.45
1:i:701:ARG:NH1	1:i:740:THR:OG1	2.50	0.45
1:r:483:PRO:HG3	1:s:516:LEU:HD12	1.98	0.45
1:r:701:ARG:NH1	1:r:740:THR:OG1	2.50	0.45
1:u:294:HIS:ND1	1:u:370:PRO:HB3	2.31	0.45
1:u:614:TRP:NE1	1:v:634:ASN:HD22	2.13	0.45
1:v:410:ARG:H	1:v:413:ASN:HD22	1.64	0.45
1:z:483:PRO:HG3	1:1:516:LEU:HD12	1.98	0.45
1:1:319:PHE:HD1	1:1:688:VAL:HG22	1.81	0.45
1:1:701:ARG:NH1	1:1:740:THR:OG1	2.50	0.45
1:2:570:GLU:O	1:2:573:ILE:HG12	2.16	0.45
1:3:357:PRO:HB3	1:4:434:GLN:HE22	1.80	0.45
1:3:701:ARG:NH1	1:3:740:THR:OG1	2.50	0.45
1:4:265:ARG:HD2	1:4:279:PHE:HE1	1.79	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:6:719:GLN:CB	1:6:731:PRO:HG2	2.46	0.45
1:8:294:HIS:ND1	1:8:370:PRO:HB3	2.31	0.45
1:A:371:PHE:CE2	1:A:373:ALA:HB3	2.51	0.45
1:A:549:SER:OG	1:I:449:TRP:NE1	2.30	0.45
1:A:701:ARG:NH1	1:A:740:THR:OG1	2.50	0.45
1:B:549:SER:OG	1:L:449:TRP:NE1	2.30	0.45
1:C:410:ARG:H	1:C:413:ASN:HD22	1.64	0.45
1:D:357:PRO:HB3	1:P:434:GLN:HE22	1.80	0.45
1:D:449:TRP:NE1	1:N:549:SER:OG	2.30	0.45
1:E:493:PHE:N	1:E:502:ASN:HD21	2.00	0.45
1:I:294:HIS:ND1	1:I:370:PRO:HB3	2.31	0.45
1:L:701:ARG:NH1	1:L:740:THR:OG1	2.50	0.45
1:N:701:ARG:NH1	1:N:740:THR:OG1	2.50	0.45
1:Q:439:LEU:HD21	1:Q:743:LEU:HD23	1.98	0.45
1:S:319:PHE:HD1	1:S:688:VAL:HG22	1.81	0.45
1:S:701:ARG:NH1	1:S:740:THR:OG1	2.50	0.45
1:X:439:LEU:HD21	1:X:743:LEU:HD23	1.98	0.45
1:Z:386:LEU:N	1:3:433:ASN:O	2.45	0.45
1:Z:408:MET:HE3	1:a:234:TRP:HB2	1.98	0.45
1:a:449:TRP:NE1	1:8:549:SER:OG	2.30	0.45
1:a:701:ARG:NH1	1:a:740:THR:OG1	2.50	0.45
1:c:614:TRP:NE1	1:o:634:ASN:HD22	2.14	0.45
1:d:410:ARG:H	1:d:413:ASN:HD22	1.64	0.45
1:d:507:VAL:HG13	1:d:543:GLN:NE2	2.32	0.45
1:h:589:THR:OG1	1:h:599:THR:OG1	2.30	0.45
1:i:549:SER:OG	1:k:449:TRP:NE1	2.30	0.45
1:j:483:PRO:HG3	1:k:516:LEU:HD12	1.98	0.45
1:k:360:LEU:HG	1:k:653:GLN:HE21	1.81	0.45
1:n:410:ARG:H	1:n:413:ASN:HD22	1.64	0.45
1:n:507:VAL:HG13	1:n:543:GLN:NE2	2.32	0.45
1:o:439:LEU:HD21	1:o:743:LEU:HD23	1.98	0.45
1:p:701:ARG:NH1	1:p:740:THR:OG1	2.50	0.45
1:q:234:TRP:HB2	1:y:408:MET:HE3	1.99	0.45
1:r:434:GLN:HE22	1:s:357:PRO:HB3	1.81	0.45
1:t:294:HIS:ND1	1:t:370:PRO:HB3	2.31	0.45
1:t:507:VAL:HG13	1:t:543:GLN:NE2	2.32	0.45
1:w:701:ARG:NH1	1:w:740:THR:OG1	2.50	0.45
1:x:439:LEU:HD21	1:x:743:LEU:HD23	1.98	0.45
1:z:701:ARG:NH1	1:z:740:THR:OG1	2.50	0.45
1:1:614:TRP:NE1	1:2:634:ASN:HD22	2.14	0.45
1:2:294:HIS:ND1	1:2:370:PRO:HB3	2.31	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:3:516:LEU:HD12	1:4:483:PRO:HG3	1.98	0.45
1:4:701:ARG:NH1	1:4:740:THR:OG1	2.50	0.45
1:A:360:LEU:HG	1:A:653:GLN:HE21	1.80	0.44
1:A:410:ARG:H	1:A:413:ASN:HD22	1.64	0.44
1:A:589:THR:OG1	1:A:599:THR:OG1	2.30	0.44
1:E:701:ARG:NH1	1:E:740:THR:OG1	2.50	0.44
1:I:410:ARG:H	1:I:413:ASN:HD22	1.64	0.44
1:I:570:GLU:O	1:I:573:ILE:HG12	2.16	0.44
1:K:434:GLN:HE22	1:a:357:PRO:HB3	1.80	0.44
1:N:234:TRP:HB2	1:m:408:MET:HE3	1.99	0.44
1:P:234:TRP:HB2	1:Q:408:MET:HE3	1.98	0.44
1:S:434:GLN:HE22	1:U:357:PRO:HB3	1.81	0.44
1:T:354:TYR:OH	1:T:650:PRO:O	2.27	0.44
1:U:701:ARG:NH1	1:U:740:THR:OG1	2.50	0.44
1:V:357:PRO:HB3	1:X:434:GLN:HE22	1.80	0.44
1:W:719:GLN:CB	1:W:731:PRO:HG2	2.46	0.44
1:r:319:PHE:HD1	1:r:688:VAL:HG22	1.81	0.44
1:s:701:ARG:NH1	1:s:740:THR:OG1	2.50	0.44
1:u:449:TRP:NE1	1:v:549:SER:OG	2.30	0.44
1:v:371:PHE:CE2	1:v:373:ALA:HB3	2.51	0.44
1:w:357:PRO:HB3	1:y:434:GLN:HE22	1.80	0.44
1:w:507:VAL:HG13	1:w:543:GLN:NE2	2.32	0.44
1:w:614:TRP:NE1	1:x:634:ASN:HD22	2.14	0.44
1:z:456:GLN:NE2	1:z:459:SER:O	2.44	0.44
1:8:570:GLU:O	1:8:573:ILE:HG12	2.16	0.44
1:E:570:GLU:O	1:E:573:ILE:HG12	2.16	0.44
1:G:354:TYR:OH	1:G:650:PRO:O	2.27	0.44
1:K:701:ARG:NH1	1:K:740:THR:OG1	2.50	0.44
1:R:294:HIS:ND1	1:R:370:PRO:HB3	2.31	0.44
1:V:570:GLU:O	1:V:573:ILE:HG12	2.16	0.44
1:Y:701:ARG:NH1	1:Y:740:THR:OG1	2.50	0.44
1:c:701:ARG:NH1	1:c:740:THR:OG1	2.50	0.44
1:d:439:LEU:HD21	1:d:743:LEU:HD23	1.98	0.44
1:e:701:ARG:NH1	1:e:740:THR:OG1	2.50	0.44
1:g:410:ARG:H	1:g:413:ASN:HD22	1.64	0.44
1:j:434:GLN:HE22	1:k:357:PRO:HB3	1.80	0.44
1:q:294:HIS:ND1	1:q:370:PRO:HB3	2.31	0.44
1:r:408:MET:HE3	1:x:234:TRP:HB2	1.98	0.44
1:u:410:ARG:H	1:u:413:ASN:HD22	1.64	0.44
1:u:570:GLU:O	1:u:573:ILE:HG12	2.16	0.44
1:v:701:ARG:NH1	1:v:740:THR:OG1	2.50	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:y:439:LEU:HD21	1:y:743:LEU:HD23	1.98	0.44
1:1:589:THR:OG1	1:1:599:THR:OG1	2.30	0.44
1:2:248:ARG:HB3	1:2:689:GLU:HG3	1.97	0.44
1:3:234:TRP:HB2	1:8:408:MET:HE3	1.98	0.44
1:5:357:PRO:HB3	1:7:434:GLN:HE22	1.80	0.44
1:7:319:PHE:HD1	1:7:688:VAL:HG22	1.81	0.44
1:B:408:MET:HE3	1:C:234:TRP:HB2	1.98	0.44
1:B:410:ARG:H	1:B:413:ASN:HD22	1.64	0.44
1:B:507:VAL:HG13	1:B:543:GLN:NE2	2.32	0.44
1:E:507:VAL:HG13	1:E:543:GLN:NE2	2.32	0.44
1:G:294:HIS:ND1	1:G:370:PRO:HB3	2.31	0.44
1:H:634:ASN:HD22	1:Y:614:TRP:NE1	2.14	0.44
1:K:408:MET:HE3	1:7:234:TRP:HB2	1.98	0.44
1:Q:234:TRP:HB2	1:S:408:MET:HE3	1.98	0.44
1:W:248:ARG:HB3	1:W:689:GLU:HG3	1.98	0.44
1:Y:234:TRP:HB2	1:4:408:MET:HE3	1.98	0.44
1:c:507:VAL:HG13	1:c:543:GLN:NE2	2.32	0.44
1:e:507:VAL:HG13	1:e:543:GLN:NE2	2.32	0.44
1:j:294:HIS:ND1	1:j:370:PRO:HB3	2.31	0.44
1:p:570:GLU:O	1:p:573:ILE:HG12	2.16	0.44
1:u:493:PHE:N	1:u:502:ASN:HD21	2.00	0.44
1:v:360:LEU:HG	1:v:653:GLN:HE21	1.81	0.44
1:w:570:GLU:O	1:w:573:ILE:HG12	2.16	0.44
1:1:507:VAL:HG13	1:1:543:GLN:NE2	2.32	0.44
1:6:701:ARG:NH1	1:6:740:THR:OG1	2.50	0.44
1:7:701:ARG:NH1	1:7:740:THR:OG1	2.50	0.44
1:E:439:LEU:HD21	1:E:743:LEU:HD23	1.98	0.44
1:I:375:ILE:CD1	1:J:677:PHE:HE1	2.30	0.44
1:N:433:ASN:O	1:P:386:LEU:N	2.46	0.44
1:N:507:VAL:HG13	1:N:543:GLN:NE2	2.32	0.44
1:P:294:HIS:ND1	1:P:370:PRO:HB3	2.31	0.44
1:Q:294:HIS:HB3	1:Q:621:LEU:HG	2.00	0.44
1:W:701:ARG:NH1	1:W:740:THR:OG1	2.50	0.44
1:Z:507:VAL:HG13	1:Z:543:GLN:NE2	2.32	0.44
1:Z:570:GLU:O	1:Z:573:ILE:HG12	2.16	0.44
1:a:433:ASN:O	1:8:386:LEU:N	2.45	0.44
1:g:234:TRP:HB2	1:1:408:MET:HE3	1.98	0.44
1:i:433:ASN:O	1:j:386:LEU:N	2.46	0.44
1:n:439:LEU:HD21	1:n:743:LEU:HD23	1.98	0.44
1:o:375:ILE:CD1	1:7:677:PHE:HE1	2.31	0.44
1:w:439:LEU:HD21	1:w:743:LEU:HD23	1.98	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:x:570:GLU:O	1:x:573:ILE:HG12	2.16	0.44
1:z:589:THR:OG1	1:z:599:THR:OG1	2.30	0.44
1:1:410:ARG:H	1:1:413:ASN:HD22	1.64	0.44
1:5:634:ASN:HD22	1:7:614:TRP:NE1	2.14	0.44
1:6:248:ARG:HB3	1:6:689:GLU:HG3	1.97	0.44
1:7:439:LEU:HD21	1:7:743:LEU:HD23	1.98	0.44
1:C:701:ARG:NH1	1:C:740:THR:OG1	2.50	0.44
1:D:294:HIS:HB3	1:D:621:LEU:HG	2.00	0.44
1:D:348:VAL:HG22	1:D:656:ILE:HG13	2.00	0.44
1:G:701:ARG:NH1	1:G:740:THR:OG1	2.50	0.44
1:H:357:PRO:HB3	1:Y:434:GLN:HE22	1.80	0.44
1:J:348:VAL:HG22	1:J:656:ILE:HG13	2.00	0.44
1:Q:348:VAL:HG22	1:Q:656:ILE:HG13	2.00	0.44
1:Q:582:ASP:OD1	1:Q:583:ALA:N	2.46	0.44
1:R:701:ARG:NH1	1:R:740:THR:OG1	2.50	0.44
1:S:348:VAL:HG22	1:S:656:ILE:HG13	2.00	0.44
1:S:651:PRO:HA	1:S:652:PRO:HD3	1.93	0.44
1:T:410:ARG:H	1:T:413:ASN:HD22	1.64	0.44
1:T:549:SER:HG	1:l:449:TRP:HE1	1.61	0.44
1:X:375:ILE:CD1	1:Y:677:PHE:HE1	2.31	0.44
1:Y:319:PHE:HD1	1:Y:688:VAL:HG22	1.81	0.44
1:a:348:VAL:HG22	1:a:656:ILE:HG13	2.00	0.44
1:e:294:HIS:HB3	1:e:621:LEU:HG	2.00	0.44
1:i:507:VAL:HG13	1:i:543:GLN:NE2	2.32	0.44
1:j:234:TRP:HB2	1:x:408:MET:HE3	1.98	0.44
1:j:410:ARG:H	1:j:413:ASN:HD22	1.64	0.44
1:k:294:HIS:HB3	1:k:621:LEU:HG	2.00	0.44
1:m:354:TYR:OH	1:m:650:PRO:O	2.27	0.44
1:o:434:GLN:HE22	1:p:357:PRO:HB3	1.80	0.44
1:p:677:PHE:HE1	1:6:375:ILE:CD1	2.31	0.44
1:r:348:VAL:HG22	1:r:656:ILE:HG13	2.00	0.44
1:r:433:ASN:O	1:s:386:LEU:N	2.45	0.44
1:t:701:ARG:NH1	1:t:740:THR:OG1	2.50	0.44
1:u:375:ILE:CD1	1:2:677:PHE:HE1	2.30	0.44
1:v:589:THR:OG1	1:v:599:THR:OG1	2.30	0.44
1:x:294:HIS:HB3	1:x:621:LEU:HG	2.00	0.44
1:x:348:VAL:HG22	1:x:656:ILE:HG13	2.00	0.44
1:z:449:TRP:NE1	1:1:549:SER:OG	2.30	0.44
1:3:507:VAL:HG13	1:3:543:GLN:NE2	2.32	0.44
1:4:507:VAL:HG13	1:4:543:GLN:NE2	2.32	0.44
1:8:507:VAL:HG13	1:8:543:GLN:NE2	2.32	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:408:MET:HE3	1:E:234:TRP:HB2	1.98	0.44
1:H:701:ARG:NH1	1:H:740:THR:OG1	2.50	0.44
1:I:493:PHE:N	1:I:502:ASN:HD21	2.00	0.44
1:J:248:ARG:HB3	1:J:689:GLU:HG3	1.98	0.44
1:J:294:HIS:HB3	1:J:621:LEU:HG	2.00	0.44
1:K:294:HIS:HB3	1:K:621:LEU:HG	2.00	0.44
1:N:294:HIS:HB3	1:N:621:LEU:HG	2.00	0.44
1:O:408:MET:HE3	1:d:234:TRP:HB2	1.98	0.44
1:O:447:TYR:CZ	1:m:363:ALA:HB1	2.53	0.44
1:P:456:GLN:NE2	1:P:459:SER:O	2.44	0.44
1:Q:456:GLN:NE2	1:Q:459:SER:O	2.44	0.44
1:Q:570:GLU:O	1:Q:573:ILE:HG12	2.16	0.44
1:S:433:ASN:O	1:U:386:LEU:N	2.45	0.44
1:T:386:LEU:N	1:l:433:ASN:O	2.46	0.44
1:V:258:TYR:OH	1:V:378:ILE:O	2.34	0.44
1:W:507:VAL:HG13	1:W:543:GLN:NE2	2.32	0.44
1:Z:410:ARG:H	1:Z:413:ASN:HD22	1.64	0.44
1:c:294:HIS:HB3	1:c:621:LEU:HG	2.00	0.44
1:f:410:ARG:H	1:f:413:ASN:HD22	1.64	0.44
1:g:386:LEU:N	1:h:433:ASN:O	2.46	0.44
1:k:348:VAL:HG22	1:k:656:ILE:HG13	2.00	0.44
1:l:408:MET:HE3	1:n:234:TRP:HB2	1.98	0.44
1:q:507:VAL:HG13	1:q:543:GLN:NE2	2.32	0.44
1:q:701:ARG:NH1	1:q:740:THR:OG1	2.50	0.44
1:w:348:VAL:HG22	1:w:656:ILE:HG13	2.00	0.44
1:x:582:ASP:OD1	1:x:583:ALA:N	2.46	0.44
1:2:234:TRP:HB2	1:3:408:MET:HE3	1.98	0.44
1:2:348:VAL:HG22	1:2:656:ILE:HG13	2.00	0.44
1:3:348:VAL:HG22	1:3:656:ILE:HG13	2.00	0.44
1:8:410:ARG:H	1:8:413:ASN:HD22	1.64	0.44
1:C:348:VAL:HG22	1:C:656:ILE:HG13	2.00	0.44
1:E:348:VAL:HG22	1:E:656:ILE:HG13	2.00	0.44
1:K:507:VAL:HG13	1:K:543:GLN:NE2	2.32	0.44
1:L:589:THR:OG1	1:L:599:THR:OG1	2.30	0.44
1:P:410:ARG:H	1:P:413:ASN:HD22	1.64	0.44
1:R:507:VAL:HG13	1:R:543:GLN:NE2	2.32	0.44
1:S:507:VAL:HG13	1:S:543:GLN:NE2	2.32	0.44
1:T:589:THR:OG1	1:T:599:THR:OG1	2.30	0.44
1:V:677:PHE:HE1	1:W:375:ILE:CD1	2.31	0.44
1:W:439:LEU:HD21	1:W:743:LEU:HD23	1.98	0.44
1:X:348:VAL:HG22	1:X:656:ILE:HG13	2.00	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:b:294:HIS:HB3	1:b:621:LEU:HG	2.00	0.44
1:b:410:ARG:H	1:b:413:ASN:HD22	1.64	0.44
1:g:701:ARG:NH1	1:g:740:THR:OG1	2.50	0.44
1:i:348:VAL:HG22	1:i:656:ILE:HG13	2.00	0.44
1:m:294:HIS:HB3	1:m:621:LEU:HG	2.00	0.44
1:m:410:ARG:H	1:m:413:ASN:HD22	1.64	0.44
1:o:348:VAL:HG22	1:o:656:ILE:HG13	2.00	0.44
1:p:258:TYR:OH	1:p:378:ILE:O	2.34	0.44
1:p:354:TYR:OH	1:p:650:PRO:O	2.27	0.44
1:q:433:ASN:O	1:r:386:LEU:N	2.46	0.44
1:w:294:HIS:HB3	1:w:621:LEU:HG	2.00	0.44
1:y:507:VAL:HG13	1:y:543:GLN:NE2	2.32	0.44
1:2:294:HIS:HB3	1:2:621:LEU:HG	2.00	0.44
1:3:354:TYR:OH	1:3:650:PRO:O	2.27	0.44
1:4:294:HIS:HB3	1:4:621:LEU:HG	2.00	0.44
1:5:677:PHE:HE1	1:8:375:ILE:CD1	2.30	0.44
1:5:701:ARG:NH1	1:5:740:THR:OG1	2.50	0.44
1:6:439:LEU:HD21	1:6:743:LEU:HD23	1.98	0.44
1:E:294:HIS:HB3	1:E:621:LEU:HG	2.00	0.44
1:E:307:ASN:O	1:E:739:LEU:HD21	2.18	0.44
1:F:456:GLN:NE2	1:F:459:SER:O	2.44	0.44
1:G:294:HIS:HB3	1:G:621:LEU:HG	2.00	0.44
1:O:589:THR:HG1	1:O:599:THR:HG1	1.61	0.44
1:R:348:VAL:HG22	1:R:656:ILE:HG13	2.00	0.44
1:S:493:PHE:N	1:S:502:ASN:HD21	2.00	0.44
1:T:294:HIS:HB3	1:T:621:LEU:HG	2.00	0.44
1:V:507:VAL:HG13	1:V:543:GLN:NE2	2.32	0.44
1:Y:439:LEU:HD21	1:Y:743:LEU:HD23	1.98	0.44
1:a:507:VAL:HG13	1:a:543:GLN:NE2	2.32	0.44
1:f:294:HIS:HB3	1:f:621:LEU:HG	2.00	0.44
1:g:348:VAL:HG22	1:g:656:ILE:HG13	2.00	0.44
1:k:408:MET:HE3	1:w:234:TRP:HB2	1.99	0.44
1:m:701:ARG:NH1	1:m:740:THR:OG1	2.50	0.44
1:p:507:VAL:HG13	1:p:543:GLN:NE2	2.32	0.44
1:q:348:VAL:HG22	1:q:656:ILE:HG13	2.00	0.44
1:r:507:VAL:HG13	1:r:543:GLN:NE2	2.32	0.44
1:t:234:TRP:HB2	1:6:408:MET:HE3	1.98	0.44
1:t:294:HIS:HB3	1:t:621:LEU:HG	2.00	0.44
1:v:348:VAL:HG22	1:v:656:ILE:HG13	2.00	0.44
1:3:410:ARG:H	1:3:413:ASN:HD22	1.64	0.44
1:A:363:ALA:HB1	1:I:447:TYR:CZ	2.53	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:433:ASN:O	1:J:386:LEU:N	2.46	0.44
1:F:507:VAL:HG13	1:F:543:GLN:NE2	2.32	0.44
1:H:410:ARG:H	1:H:413:ASN:HD22	1.64	0.44
1:H:677:PHE:HE1	1:Z:375:ILE:CD1	2.31	0.44
1:N:258:TYR:OH	1:N:378:ILE:O	2.34	0.44
1:N:348:VAL:HG22	1:N:656:ILE:HG13	2.00	0.44
1:O:410:ARG:H	1:O:413:ASN:HD22	1.64	0.44
1:R:433:ASN:O	1:S:386:LEU:N	2.46	0.44
1:T:348:VAL:HG22	1:T:656:ILE:HG13	2.00	0.44
1:a:410:ARG:H	1:a:413:ASN:HD22	1.64	0.44
1:b:701:ARG:CZ	1:b:705:GLU:HG2	2.48	0.44
1:d:701:ARG:CZ	1:d:705:GLU:HG2	2.48	0.44
1:f:348:VAL:HG22	1:f:656:ILE:HG13	2.00	0.44
1:i:294:HIS:HB3	1:i:621:LEU:HG	2.00	0.44
1:l:410:ARG:H	1:l:413:ASN:HD22	1.64	0.44
1:m:234:TRP:HB2	1:s:408:MET:HE3	2.00	0.44
1:m:299:PRO:HB2	1:r:704:PRO:HD3	2.00	0.44
1:m:434:GLN:HE22	1:n:357:PRO:HB3	1.79	0.44
1:n:348:VAL:HG22	1:n:656:ILE:HG13	2.00	0.44
1:p:294:HIS:HB3	1:p:621:LEU:HG	2.00	0.44
1:u:348:VAL:HG22	1:u:656:ILE:HG13	2.00	0.44
1:x:410:ARG:H	1:x:413:ASN:HD22	1.64	0.44
1:x:456:GLN:NE2	1:x:459:SER:O	2.44	0.44
1:3:327:LYS:HZ3	1:3:340:ASN:HB3	1.83	0.44
1:6:507:VAL:HG13	1:6:543:GLN:NE2	2.32	0.44
1:A:348:VAL:HG22	1:A:656:ILE:HG13	2.00	0.43
1:D:507:VAL:HG22	1:D:542:MET:CE	2.48	0.43
1:F:677:PHE:HE1	1:R:375:ILE:CD1	2.31	0.43
1:I:348:VAL:HG22	1:I:656:ILE:HG13	2.00	0.43
1:I:701:ARG:NH1	1:I:740:THR:OG1	2.50	0.43
1:K:701:ARG:CZ	1:K:705:GLU:HG2	2.48	0.43
1:O:307:ASN:O	1:O:739:LEU:HD21	2.18	0.43
1:Q:410:ARG:H	1:Q:413:ASN:HD22	1.64	0.43
1:V:294:HIS:HB3	1:V:621:LEU:HG	2.00	0.43
1:V:354:TYR:OH	1:V:650:PRO:O	2.27	0.43
1:W:307:ASN:O	1:W:739:LEU:HD21	2.18	0.43
1:a:258:TYR:OH	1:a:378:ILE:O	2.34	0.43
1:a:307:ASN:O	1:a:739:LEU:HD21	2.18	0.43
1:a:327:LYS:HZ3	1:a:340:ASN:HB3	1.83	0.43
1:d:348:VAL:HG22	1:d:656:ILE:HG13	2.00	0.43
1:f:701:ARG:CZ	1:f:705:GLU:HG2	2.48	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:i:258:TYR:OH	1:i:378:ILE:O	2.34	0.43
1:j:456:GLN:NE2	1:j:459:SER:O	2.44	0.43
1:j:677:PHE:HE1	1:l:375:ILE:CD1	2.30	0.43
1:k:701:ARG:CZ	1:k:705:GLU:HG2	2.48	0.43
1:m:348:VAL:HG22	1:m:656:ILE:HG13	2.00	0.43
1:n:701:ARG:CZ	1:n:705:GLU:HG2	2.48	0.43
1:q:307:ASN:O	1:q:739:LEU:HD21	2.18	0.43
1:r:493:PHE:N	1:r:502:ASN:HD21	2.00	0.43
1:r:677:PHE:HE1	1:x:375:ILE:CD1	2.30	0.43
1:u:701:ARG:NH1	1:u:740:THR:OG1	2.50	0.43
1:1:433:ASN:O	1:2:386:LEU:N	2.46	0.43
1:2:507:VAL:HG13	1:2:543:GLN:NE2	2.32	0.43
1:3:294:HIS:HB3	1:3:621:LEU:HG	2.00	0.43
1:3:307:ASN:O	1:3:739:LEU:HD21	2.18	0.43
1:4:701:ARG:CZ	1:4:705:GLU:HG2	2.49	0.43
1:5:294:HIS:HB3	1:5:621:LEU:HG	2.00	0.43
1:5:410:ARG:H	1:5:413:ASN:HD22	1.64	0.43
1:5:432:HIS:HE1	1:6:631:ASP:O	2.02	0.43
1:A:386:LEU:N	1:I:433:ASN:O	2.46	0.43
1:A:507:VAL:HG22	1:A:542:MET:CE	2.49	0.43
1:B:456:GLN:NE2	1:B:459:SER:O	2.44	0.43
1:D:701:ARG:CZ	1:D:705:GLU:HG2	2.49	0.43
1:F:701:ARG:CZ	1:F:705:GLU:HG2	2.48	0.43
1:H:294:HIS:HB3	1:H:621:LEU:HG	2.00	0.43
1:I:231:SER:H	1:I:323:ASN:ND2	2.17	0.43
1:I:294:HIS:HB3	1:I:621:LEU:HG	2.00	0.43
1:I:307:ASN:O	1:I:739:LEU:HD21	2.18	0.43
1:I:507:VAL:HG22	1:I:542:MET:CE	2.49	0.43
1:J:307:ASN:O	1:J:739:LEU:HD21	2.18	0.43
1:J:507:VAL:HG13	1:J:543:GLN:NE2	2.32	0.43
1:K:433:ASN:O	1:a:386:LEU:N	2.46	0.43
1:M:701:ARG:CZ	1:M:705:GLU:HG2	2.49	0.43
1:N:307:ASN:O	1:N:739:LEU:HD21	2.18	0.43
1:O:433:ASN:O	1:m:386:LEU:N	2.46	0.43
1:P:348:VAL:HG22	1:P:656:ILE:HG13	2.00	0.43
1:Q:507:VAL:HG22	1:Q:542:MET:CE	2.48	0.43
1:R:307:ASN:O	1:R:739:LEU:HD21	2.18	0.43
1:S:231:SER:H	1:S:323:ASN:ND2	2.16	0.43
1:S:294:HIS:HB3	1:S:621:LEU:HG	2.00	0.43
1:U:231:SER:H	1:U:323:ASN:ND2	2.17	0.43
1:X:507:VAL:HG22	1:X:542:MET:CE	2.49	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Z:348:VAL:HG22	1:Z:656:ILE:HG13	2.00	0.43
1:a:294:HIS:HB3	1:a:621:LEU:HG	2.00	0.43
1:a:354:TYR:OH	1:a:650:PRO:O	2.27	0.43
1:b:348:VAL:HG22	1:b:656:ILE:HG13	2.00	0.43
1:h:701:ARG:CZ	1:h:705:GLU:HG2	2.49	0.43
1:j:348:VAL:HG22	1:j:656:ILE:HG13	2.00	0.43
1:j:615:GLN:HE22	1:k:632:THR:HA	1.83	0.43
1:k:507:VAL:HG22	1:k:542:MET:CE	2.49	0.43
1:l:307:ASN:O	1:l:739:LEU:HD21	2.18	0.43
1:n:231:SER:H	1:n:323:ASN:ND2	2.17	0.43
1:n:354:TYR:OH	1:n:650:PRO:O	2.27	0.43
1:o:507:VAL:HG22	1:o:542:MET:CE	2.48	0.43
1:s:231:SER:H	1:s:323:ASN:ND2	2.17	0.43
1:u:231:SER:H	1:u:323:ASN:ND2	2.17	0.43
1:u:507:VAL:HG22	1:u:542:MET:CE	2.48	0.43
1:v:507:VAL:HG22	1:v:542:MET:CE	2.49	0.43
1:w:307:ASN:O	1:w:739:LEU:HD21	2.19	0.43
1:w:386:LEU:N	1:y:433:ASN:O	2.46	0.43
1:y:456:GLN:NE2	1:y:459:SER:O	2.44	0.43
1:z:386:LEU:N	1:2:433:ASN:O	2.45	0.43
1:4:231:SER:H	1:4:323:ASN:ND2	2.16	0.43
1:8:348:VAL:HG22	1:8:656:ILE:HG13	2.00	0.43
1:B:294:HIS:HB3	1:B:621:LEU:HG	2.00	0.43
1:D:307:ASN:O	1:D:739:LEU:HD21	2.18	0.43
1:D:632:THR:HA	1:P:615:GLN:HE22	1.83	0.43
1:E:507:VAL:HG22	1:E:542:MET:CE	2.49	0.43
1:L:231:SER:H	1:L:323:ASN:ND2	2.17	0.43
1:O:258:TYR:OH	1:O:378:ILE:O	2.34	0.43
1:O:507:VAL:HG22	1:O:542:MET:CE	2.48	0.43
1:R:410:ARG:H	1:R:413:ASN:HD22	1.64	0.43
1:T:231:SER:H	1:T:323:ASN:ND2	2.17	0.43
1:V:307:ASN:O	1:V:739:LEU:HD21	2.18	0.43
1:Z:507:VAL:HG22	1:Z:542:MET:CE	2.48	0.43
1:d:231:SER:H	1:d:323:ASN:ND2	2.17	0.43
1:f:307:ASN:O	1:f:739:LEU:HD21	2.18	0.43
1:i:307:ASN:O	1:i:739:LEU:HD21	2.18	0.43
1:i:718:ILE:HG13	1:i:721:ALA:HB3	2.01	0.43
1:k:307:ASN:O	1:k:739:LEU:HD21	2.18	0.43
1:l:507:VAL:HG22	1:l:542:MET:CE	2.48	0.43
1:m:231:SER:H	1:m:323:ASN:ND2	2.17	0.43
1:p:307:ASN:O	1:p:739:LEU:HD21	2.18	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:q:615:GLN:HE22	1:r:632:THR:HA	1.84	0.43
1:r:294:HIS:HB3	1:r:621:LEU:HG	2.00	0.43
1:s:348:VAL:HG22	1:s:656:ILE:HG13	2.00	0.43
1:t:615:GLN:HE22	1:u:632:THR:HA	1.84	0.43
1:u:294:HIS:HB3	1:u:621:LEU:HG	2.00	0.43
1:u:307:ASN:O	1:u:739:LEU:HD21	2.18	0.43
1:x:507:VAL:HG22	1:x:542:MET:CE	2.48	0.43
1:y:701:ARG:CZ	1:y:705:GLU:HG2	2.48	0.43
1:z:348:VAL:HG22	1:z:656:ILE:HG13	2.00	0.43
1:1:294:HIS:HB3	1:1:621:LEU:HG	2.00	0.43
1:1:456:GLN:NE2	1:1:459:SER:O	2.44	0.43
1:3:386:LEU:N	1:4:433:ASN:O	2.46	0.43
1:3:507:VAL:HG22	1:3:542:MET:CE	2.48	0.43
1:5:701:ARG:CZ	1:5:705:GLU:HG2	2.48	0.43
1:6:307:ASN:O	1:6:739:LEU:HD21	2.18	0.43
1:6:507:VAL:HG22	1:6:542:MET:CE	2.48	0.43
1:8:701:ARG:CZ	1:8:705:GLU:HG2	2.48	0.43
1:A:307:ASN:O	1:A:739:LEU:HD21	2.18	0.43
1:B:231:SER:H	1:B:323:ASN:ND2	2.17	0.43
1:C:507:VAL:HG22	1:C:542:MET:CE	2.48	0.43
1:C:701:ARG:CZ	1:C:705:GLU:HG2	2.49	0.43
1:E:231:SER:H	1:E:323:ASN:ND2	2.16	0.43
1:G:231:SER:H	1:G:323:ASN:ND2	2.17	0.43
1:G:234:TRP:HB2	1:W:408:MET:HE3	1.99	0.43
1:H:432:HIS:HE1	1:W:631:ASP:O	2.02	0.43
1:H:701:ARG:CZ	1:H:705:GLU:HG2	2.49	0.43
1:J:447:TYR:CZ	1:L:363:ALA:HB1	2.54	0.43
1:K:231:SER:H	1:K:323:ASN:ND2	2.17	0.43
1:K:632:THR:HA	1:8:615:GLN:HE22	1.84	0.43
1:K:718:ILE:HG13	1:K:721:ALA:HB3	2.01	0.43
1:L:348:VAL:HG22	1:L:656:ILE:HG13	2.00	0.43
1:N:231:SER:H	1:N:323:ASN:ND2	2.17	0.43
1:Q:307:ASN:O	1:Q:739:LEU:HD21	2.19	0.43
1:Q:375:ILE:CD1	1:S:677:PHE:HE1	2.30	0.43
1:U:348:VAL:HG22	1:U:656:ILE:HG13	2.00	0.43
1:W:258:TYR:OH	1:W:378:ILE:O	2.34	0.43
1:X:363:ALA:HB1	1:e:447:TYR:CZ	2.54	0.43
1:Y:507:VAL:HG13	1:Y:543:GLN:NE2	2.32	0.43
1:Z:307:ASN:O	1:Z:739:LEU:HD21	2.18	0.43
1:Z:701:ARG:CZ	1:Z:705:GLU:HG2	2.48	0.43
1:a:507:VAL:HG22	1:a:542:MET:CE	2.49	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:c:354:TYR:OH	1:c:650:PRO:O	2.27	0.43
1:d:307:ASN:O	1:d:739:LEU:HD21	2.18	0.43
1:d:354:TYR:OH	1:d:650:PRO:O	2.27	0.43
1:j:570:GLU:OE2	1:j:617:ARG:HA	2.19	0.43
1:m:433:ASN:O	1:n:386:LEU:N	2.45	0.43
1:m:701:ARG:CZ	1:m:705:GLU:HG2	2.48	0.43
1:n:570:GLU:OE2	1:n:617:ARG:HA	2.19	0.43
1:n:718:ILE:HG13	1:n:721:ALA:HB3	2.01	0.43
1:o:306:ILE:HD12	1:o:738:TYR:CE2	2.54	0.43
1:q:375:ILE:CD1	1:y:677:PHE:HE1	2.31	0.43
1:r:231:SER:H	1:r:323:ASN:ND2	2.17	0.43
1:t:231:SER:H	1:t:323:ASN:ND2	2.17	0.43
1:u:718:ILE:HG13	1:u:721:ALA:HB3	2.01	0.43
1:v:307:ASN:O	1:v:739:LEU:HD21	2.18	0.43
1:v:507:VAL:HG13	1:v:543:GLN:NE2	2.32	0.43
1:w:507:VAL:HG22	1:w:542:MET:CE	2.49	0.43
1:x:307:ASN:O	1:x:739:LEU:HD21	2.18	0.43
1:z:231:SER:H	1:z:323:ASN:ND2	2.17	0.43
1:z:507:VAL:HG22	1:z:542:MET:CE	2.49	0.43
1:1:231:SER:H	1:1:323:ASN:ND2	2.17	0.43
1:1:258:TYR:OH	1:1:378:ILE:O	2.34	0.43
1:2:307:ASN:O	1:2:739:LEU:HD21	2.18	0.43
1:2:507:VAL:HG22	1:2:542:MET:CE	2.48	0.43
1:4:718:ILE:HG13	1:4:721:ALA:HB3	2.01	0.43
1:5:615:GLN:HE22	1:6:632:THR:HA	1.83	0.43
1:6:258:TYR:OH	1:6:378:ILE:O	2.34	0.43
1:8:307:ASN:O	1:8:739:LEU:HD21	2.19	0.43
1:8:507:VAL:HG22	1:8:542:MET:CE	2.49	0.43
1:A:231:SER:H	1:A:323:ASN:ND2	2.16	0.43
1:A:294:HIS:HB3	1:A:621:LEU:HG	2.00	0.43
1:B:317:MET:HE1	1:B:651:PRO:HB3	2.01	0.43
1:C:615:GLN:HE22	1:b:632:THR:HA	1.84	0.43
1:G:307:ASN:O	1:G:739:LEU:HD21	2.18	0.43
1:H:348:VAL:HG22	1:H:656:ILE:HG13	2.00	0.43
1:I:718:ILE:HG13	1:I:721:ALA:HB3	2.01	0.43
1:J:306:ILE:HD12	1:J:738:TYR:CE2	2.54	0.43
1:J:507:VAL:HG22	1:J:542:MET:CE	2.48	0.43
1:J:701:ARG:CZ	1:J:705:GLU:HG2	2.49	0.43
1:N:301:ASP:OD2	1:m:403:TYR:OH	2.32	0.43
1:N:306:ILE:HD12	1:N:738:TYR:CE2	2.54	0.43
1:N:718:ILE:HG13	1:N:721:ALA:HB3	2.01	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:O:375:ILE:CD1	1:P:677:PHE:HE1	2.31	0.43
1:P:570:GLU:OE2	1:P:617:ARG:HA	2.19	0.43
1:R:231:SER:H	1:R:323:ASN:ND2	2.16	0.43
1:R:615:GLN:HE22	1:S:632:THR:HA	1.84	0.43
1:S:307:ASN:O	1:S:739:LEU:HD21	2.18	0.43
1:T:701:ARG:CZ	1:T:705:GLU:HG2	2.49	0.43
1:T:701:ARG:NH1	1:T:740:THR:OG1	2.50	0.43
1:W:507:VAL:HG22	1:W:542:MET:CE	2.49	0.43
1:W:615:GLN:HE22	1:Y:632:THR:HA	1.83	0.43
1:X:306:ILE:HD12	1:X:738:TYR:CE2	2.54	0.43
1:Y:306:ILE:HD12	1:Y:738:TYR:CE2	2.54	0.43
1:Z:615:GLN:HE22	1:4:632:THR:HA	1.84	0.43
1:b:307:ASN:O	1:b:739:LEU:HD21	2.19	0.43
1:c:486:PHE:CD2	1:c:584:TRP:HB2	2.54	0.43
1:d:570:GLU:OE2	1:d:617:ARG:HA	2.19	0.43
1:d:718:ILE:HG13	1:d:721:ALA:HB3	2.01	0.43
1:e:486:PHE:CD2	1:e:584:TRP:HB2	2.54	0.43
1:h:306:ILE:HD12	1:h:738:TYR:CE2	2.54	0.43
1:h:570:GLU:OE2	1:h:617:ARG:HA	2.19	0.43
1:i:570:GLU:OE2	1:i:617:ARG:HA	2.19	0.43
1:i:632:THR:HA	1:k:615:GLN:HE22	1.83	0.43
1:l:348:VAL:HG22	1:l:656:ILE:HG13	2.00	0.43
1:n:307:ASN:O	1:n:739:LEU:HD21	2.18	0.43
1:p:718:ILE:HG13	1:p:721:ALA:HB3	2.01	0.43
1:q:410:ARG:H	1:q:413:ASN:HD22	1.64	0.43
1:r:307:ASN:O	1:r:739:LEU:HD21	2.18	0.43
1:s:317:MET:HE1	1:s:651:PRO:HB3	2.01	0.43
1:t:307:ASN:O	1:t:739:LEU:HD21	2.18	0.43
1:t:632:THR:HA	1:v:615:GLN:HE22	1.84	0.43
1:u:615:GLN:HE22	1:v:632:THR:HA	1.84	0.43
1:w:231:SER:H	1:w:323:ASN:ND2	2.17	0.43
1:x:447:TYR:CZ	1:y:363:ALA:HB1	2.54	0.43
1:2:306:ILE:HD12	1:2:738:TYR:CE2	2.54	0.43
1:2:701:ARG:CZ	1:2:705:GLU:HG2	2.49	0.43
1:5:307:ASN:O	1:5:739:LEU:HD21	2.18	0.43
1:6:294:HIS:HB3	1:6:621:LEU:HG	2.00	0.43
1:6:306:ILE:HD12	1:6:738:TYR:CE2	2.54	0.43
1:6:651:PRO:HA	1:6:652:PRO:HD3	1.93	0.43
1:7:306:ILE:HD12	1:7:738:TYR:CE2	2.54	0.43
1:A:486:PHE:CD2	1:A:584:TRP:HB2	2.54	0.43
1:A:507:VAL:HG13	1:A:543:GLN:NE2	2.32	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:386:LEU:N	1:L:433:ASN:O	2.46	0.43
1:C:386:LEU:N	1:M:433:ASN:O	2.46	0.43
1:C:570:GLU:OE2	1:C:617:ARG:HA	2.19	0.43
1:F:363:ALA:HB1	1:Q:447:TYR:CZ	2.54	0.43
1:F:570:GLU:OE2	1:F:617:ARG:HA	2.19	0.43
1:G:306:ILE:HD12	1:G:738:TYR:CE2	2.54	0.43
1:G:570:GLU:OE2	1:G:617:ARG:HA	2.19	0.43
1:G:615:GLN:HE22	1:I:632:THR:HA	1.84	0.43
1:H:307:ASN:O	1:H:739:LEU:HD21	2.18	0.43
1:I:306:ILE:HD12	1:I:738:TYR:CE2	2.54	0.43
1:I:486:PHE:CD2	1:I:584:TRP:HB2	2.54	0.43
1:J:234:TRP:HB2	1:a:408:MET:HE3	1.99	0.43
1:K:432:HIS:HE1	1:a:631:ASP:O	2.02	0.43
1:L:507:VAL:HG22	1:L:542:MET:CE	2.49	0.43
1:M:231:SER:H	1:M:323:ASN:ND2	2.17	0.43
1:M:570:GLU:OE2	1:M:617:ARG:HA	2.19	0.43
1:O:348:VAL:HG22	1:O:656:ILE:HG13	2.00	0.43
1:O:570:GLU:OE2	1:O:617:ARG:HA	2.19	0.43
1:O:632:THR:HA	1:n:615:GLN:HE22	1.84	0.43
1:Q:231:SER:H	1:Q:323:ASN:ND2	2.17	0.43
1:T:363:ALA:HB1	1:l:447:TYR:CZ	2.54	0.43
1:T:486:PHE:CD2	1:T:584:TRP:HB2	2.54	0.43
1:T:718:ILE:HG13	1:T:721:ALA:HB3	2.01	0.43
1:U:317:MET:HE1	1:U:651:PRO:HB3	2.01	0.43
1:V:718:ILE:HG13	1:V:721:ALA:HB3	2.01	0.43
1:W:231:SER:H	1:W:323:ASN:ND2	2.17	0.43
1:W:306:ILE:HD12	1:W:738:TYR:CE2	2.54	0.43
1:W:701:ARG:CZ	1:W:705:GLU:HG2	2.48	0.43
1:c:317:MET:HE1	1:c:651:PRO:HB3	2.01	0.43
1:c:447:TYR:CZ	1:o:363:ALA:HB1	2.54	0.43
1:c:718:ILE:HG13	1:c:721:ALA:HB3	2.01	0.43
1:d:447:TYR:CZ	1:l:363:ALA:HB1	2.54	0.43
1:d:615:GLN:HE22	1:l:632:THR:HA	1.84	0.43
1:e:317:MET:HE1	1:e:651:PRO:HB3	2.01	0.43
1:f:386:LEU:N	1:g:433:ASN:O	2.46	0.43
1:f:632:THR:HA	1:g:615:GLN:HE22	1.84	0.43
1:g:291:ASN:OD1	1:g:625:ILE:N	2.42	0.43
1:g:507:VAL:HG22	1:g:542:MET:CE	2.49	0.43
1:g:570:GLU:OE2	1:g:617:ARG:HA	2.19	0.43
1:g:701:ARG:CZ	1:g:705:GLU:HG2	2.49	0.43
1:i:231:SER:H	1:i:323:ASN:ND2	2.17	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:i:306:ILE:HD12	1:i:738:TYR:CE2	2.54	0.43
1:j:432:HIS:HE1	1:k:631:ASP:O	2.01	0.43
1:l:258:TYR:OH	1:l:378:ILE:O	2.34	0.43
1:m:449:TRP:HE1	1:n:549:SER:HG	1.59	0.43
1:m:486:PHE:CD2	1:m:584:TRP:HB2	2.54	0.43
1:m:718:ILE:HG13	1:m:721:ALA:HB3	2.01	0.43
1:o:447:TYR:CZ	1:p:363:ALA:HB1	2.54	0.43
1:p:348:VAL:HG22	1:p:656:ILE:HG13	2.00	0.43
1:p:487:PHE:CD2	1:p:512:LYS:HD2	2.54	0.43
1:q:231:SER:H	1:q:323:ASN:ND2	2.17	0.43
1:q:432:HIS:HE1	1:r:631:ASP:O	2.02	0.43
1:t:306:ILE:HD12	1:t:738:TYR:CE2	2.54	0.43
1:t:570:GLU:OE2	1:t:617:ARG:HA	2.19	0.43
1:u:306:ILE:HD12	1:u:738:TYR:CE2	2.54	0.43
1:u:486:PHE:CD2	1:u:584:TRP:HB2	2.54	0.43
1:v:294:HIS:HB3	1:v:621:LEU:HG	2.00	0.43
1:w:306:ILE:HD12	1:w:738:TYR:CE2	2.54	0.43
1:x:354:TYR:OH	1:x:650:PRO:O	2.27	0.43
1:y:570:GLU:OE2	1:y:617:ARG:HA	2.19	0.43
1:z:432:HIS:HE1	1:1:631:ASP:O	2.02	0.43
1:1:718:ILE:HG13	1:1:721:ALA:HB3	2.01	0.43
1:6:231:SER:H	1:6:323:ASN:ND2	2.17	0.43
1:6:718:ILE:HG13	1:6:721:ALA:HB3	2.01	0.43
1:7:294:HIS:HB3	1:7:621:LEU:HG	2.00	0.43
1:A:447:TYR:CZ	1:G:363:ALA:HB1	2.54	0.43
1:B:348:VAL:HG22	1:B:656:ILE:HG13	2.00	0.43
1:B:507:VAL:HG22	1:B:542:MET:CE	2.49	0.43
1:B:718:ILE:HG13	1:B:721:ALA:HB3	2.01	0.43
1:D:486:PHE:CD2	1:D:584:TRP:HB2	2.54	0.43
1:D:487:PHE:CD2	1:D:512:LYS:HD2	2.54	0.43
1:E:306:ILE:HD12	1:E:738:TYR:CE2	2.54	0.43
1:E:447:TYR:CZ	1:Q:363:ALA:HB1	2.54	0.43
1:F:348:VAL:HG22	1:F:656:ILE:HG13	2.00	0.43
1:G:348:VAL:HG22	1:G:656:ILE:HG13	2.00	0.43
1:J:231:SER:H	1:J:323:ASN:ND2	2.17	0.43
1:J:433:ASN:O	1:L:386:LEU:N	2.46	0.43
1:L:307:ASN:O	1:L:739:LEU:HD21	2.18	0.43
1:M:306:ILE:HD12	1:M:738:TYR:CE2	2.54	0.43
1:M:375:ILE:CD1	1:N:677:PHE:HE1	2.30	0.43
1:N:570:GLU:OE2	1:N:617:ARG:HA	2.19	0.43
1:O:718:ILE:HG13	1:O:721:ALA:HB3	2.01	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Q:317:MET:HE1	1:Q:651:PRO:HB3	2.01	0.43
1:Q:354:TYR:OH	1:Q:650:PRO:O	2.27	0.43
1:R:306:ILE:HD12	1:R:738:TYR:CE2	2.54	0.43
1:R:386:LEU:N	1:U:433:ASN:O	2.46	0.43
1:R:507:VAL:HG22	1:R:542:MET:CE	2.48	0.43
1:U:294:HIS:HB3	1:U:621:LEU:HG	2.00	0.43
1:V:432:HIS:HE1	1:e:631:ASP:O	2.02	0.43
1:V:487:PHE:CD2	1:V:512:LYS:HD2	2.54	0.43
1:W:294:HIS:HB3	1:W:621:LEU:HG	2.00	0.43
1:W:348:VAL:HG22	1:W:656:ILE:HG13	2.00	0.43
1:W:486:PHE:CD2	1:W:584:TRP:HB2	2.54	0.43
1:W:651:PRO:HA	1:W:652:PRO:HD3	1.94	0.43
1:Y:294:HIS:HB3	1:Y:621:LEU:HG	2.00	0.43
1:Z:306:ILE:HD12	1:Z:738:TYR:CE2	2.54	0.43
1:c:615:GLN:HE22	1:o:632:THR:HA	1.84	0.43
1:e:307:ASN:O	1:e:739:LEU:HD21	2.18	0.43
1:e:718:ILE:HG13	1:e:721:ALA:HB3	2.01	0.43
1:f:231:SER:H	1:f:323:ASN:ND2	2.17	0.43
1:g:307:ASN:O	1:g:739:LEU:HD21	2.18	0.43
1:j:493:PHE:N	1:j:502:ASN:HD21	2.00	0.43
1:l:570:GLU:OE2	1:l:617:ARG:HA	2.19	0.43
1:l:718:ILE:HG13	1:l:721:ALA:HB3	2.01	0.43
1:m:704:PRO:HD3	1:r:299:PRO:HB2	2.01	0.43
1:o:307:ASN:O	1:o:739:LEU:HD21	2.18	0.43
1:p:570:GLU:OE2	1:p:617:ARG:HA	2.19	0.43
1:q:306:ILE:HD12	1:q:738:TYR:CE2	2.54	0.43
1:r:615:GLN:HE22	1:s:632:THR:HA	1.84	0.43
1:u:433:ASN:O	1:v:386:LEU:N	2.46	0.43
1:v:231:SER:H	1:v:323:ASN:ND2	2.17	0.43
1:v:486:PHE:CD2	1:v:584:TRP:HB2	2.54	0.43
1:v:677:PHE:HE1	1:1:375:ILE:CD1	2.32	0.43
1:x:231:SER:H	1:x:323:ASN:ND2	2.17	0.43
1:x:317:MET:HE1	1:x:651:PRO:HB3	2.01	0.43
1:z:363:ALA:HB1	1:2:447:TYR:CZ	2.54	0.43
1:z:632:THR:HA	1:2:615:GLN:HE22	1.84	0.43
1:1:317:MET:HE1	1:1:651:PRO:HB3	2.01	0.43
1:1:348:VAL:HG22	1:1:656:ILE:HG13	2.00	0.43
1:1:507:VAL:HG22	1:1:542:MET:CE	2.49	0.43
1:3:631:ASP:O	1:4:432:HIS:HE1	2.02	0.43
1:3:718:ILE:HG13	1:3:721:ALA:HB3	2.01	0.43
1:4:307:ASN:O	1:4:739:LEU:HD21	2.18	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:5:348:VAL:HG22	1:5:656:ILE:HG13	2.00	0.43
1:5:631:ASP:O	1:7:432:HIS:HE1	2.02	0.43
1:6:701:ARG:CZ	1:6:705:GLU:HG2	2.49	0.43
1:7:507:VAL:HG13	1:7:543:GLN:NE2	2.32	0.43
1:8:306:ILE:HD12	1:8:738:TYR:CE2	2.54	0.43
1:8:570:GLU:OE2	1:8:617:ARG:HA	2.19	0.43
1:B:631:ASP:O	1:L:432:HIS:HE1	2.02	0.43
1:C:307:ASN:O	1:C:739:LEU:HD21	2.18	0.43
1:C:432:HIS:HE1	1:b:631:ASP:O	2.02	0.43
1:D:615:GLN:HE22	1:N:632:THR:HA	1.83	0.43
1:E:303:GLN:NE2	1:E:708:PHE:O	2.52	0.43
1:E:386:LEU:N	1:F:433:ASN:O	2.46	0.43
1:F:294:HIS:HB3	1:F:621:LEU:HG	2.00	0.43
1:G:486:PHE:CD2	1:G:584:TRP:HB2	2.54	0.43
1:H:507:VAL:HG22	1:H:542:MET:CE	2.49	0.43
1:H:549:SER:OG	1:Y:449:TRP:NE1	2.30	0.43
1:H:615:GLN:HE22	1:W:632:THR:HA	1.83	0.43
1:H:631:ASP:O	1:Y:432:HIS:HE1	2.02	0.43
1:J:487:PHE:CD2	1:J:512:LYS:HD2	2.54	0.43
1:J:615:GLN:HE22	1:L:632:THR:HA	1.84	0.43
1:J:718:ILE:HG13	1:J:721:ALA:HB3	2.01	0.43
1:K:307:ASN:O	1:K:739:LEU:HD21	2.19	0.43
1:K:486:PHE:CD2	1:K:584:TRP:HB2	2.54	0.43
1:K:507:VAL:HG22	1:K:542:MET:CE	2.49	0.43
1:M:363:ALA:HB1	1:b:447:TYR:CZ	2.54	0.43
1:O:294:HIS:HB3	1:O:621:LEU:HG	2.00	0.43
1:O:363:ALA:HB1	1:n:447:TYR:CZ	2.54	0.43
1:O:486:PHE:CD2	1:O:584:TRP:HB2	2.54	0.43
1:R:432:HIS:HE1	1:S:631:ASP:O	2.02	0.43
1:S:487:PHE:CD2	1:S:512:LYS:HD2	2.54	0.43
1:S:615:GLN:HE22	1:U:632:THR:HA	1.84	0.43
1:T:306:ILE:HD12	1:T:738:TYR:CE2	2.54	0.43
1:U:507:VAL:HG22	1:U:542:MET:CE	2.49	0.43
1:U:718:ILE:HG13	1:U:721:ALA:HB3	2.01	0.43
1:V:348:VAL:HG22	1:V:656:ILE:HG13	2.00	0.43
1:V:363:ALA:HB1	1:X:447:TYR:CZ	2.54	0.43
1:V:570:GLU:OE2	1:V:617:ARG:HA	2.19	0.43
1:V:632:THR:HA	1:X:615:GLN:HE22	1.84	0.43
1:W:718:ILE:HG13	1:W:721:ALA:HB3	2.01	0.43
1:X:632:THR:HA	1:e:615:GLN:HE22	1.84	0.43
1:Y:231:SER:H	1:Y:323:ASN:ND2	2.17	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Y:507:VAL:HG22	1:Y:542:MET:CE	2.48	0.43
1:Z:433:ASN:O	1:4:386:LEU:N	2.46	0.43
1:Z:570:GLU:OE2	1:Z:617:ARG:HA	2.19	0.43
1:a:570:GLU:OE2	1:a:617:ARG:HA	2.19	0.43
1:b:231:SER:H	1:b:323:ASN:ND2	2.17	0.43
1:c:306:ILE:HD12	1:c:738:TYR:CE2	2.54	0.43
1:c:307:ASN:O	1:c:739:LEU:HD21	2.18	0.43
1:c:631:ASP:O	1:p:432:HIS:HE1	2.02	0.43
1:e:306:ILE:HD12	1:e:738:TYR:CE2	2.54	0.43
1:f:306:ILE:HD12	1:f:738:TYR:CE2	2.54	0.43
1:g:375:ILE:CD1	1:1:677:PHE:HE1	2.30	0.43
1:h:231:SER:H	1:h:323:ASN:ND2	2.17	0.43
1:h:294:HIS:HB3	1:h:621:LEU:HG	2.00	0.43
1:h:348:VAL:HG22	1:h:656:ILE:HG13	2.00	0.43
1:k:486:PHE:CD2	1:k:584:TRP:HB2	2.54	0.43
1:k:487:PHE:CD2	1:k:512:LYS:HD2	2.54	0.43
1:l:486:PHE:CD2	1:l:584:TRP:HB2	2.54	0.43
1:m:306:ILE:HD12	1:m:738:TYR:CE2	2.54	0.43
1:o:615:GLN:HE22	1:p:632:THR:HA	1.84	0.43
1:p:306:ILE:HD12	1:p:738:TYR:CE2	2.54	0.43
1:q:449:TRP:NE1	1:r:549:SER:OG	2.30	0.43
1:q:507:VAL:HG22	1:q:542:MET:CE	2.49	0.43
1:r:487:PHE:CD2	1:r:512:LYS:HD2	2.54	0.43
1:r:701:ARG:CZ	1:r:705:GLU:HG2	2.49	0.43
1:s:507:VAL:HG22	1:s:542:MET:CE	2.49	0.43
1:s:701:ARG:CZ	1:s:705:GLU:HG2	2.49	0.43
1:s:718:ILE:HG13	1:s:721:ALA:HB3	2.01	0.43
1:t:486:PHE:CD2	1:t:584:TRP:HB2	2.54	0.43
1:w:303:GLN:NE2	1:w:708:PHE:O	2.52	0.43
1:z:615:GLN:HE22	1:1:632:THR:HA	1.83	0.43
1:1:570:GLU:OE2	1:1:617:ARG:HA	2.19	0.43
1:2:231:SER:H	1:2:323:ASN:ND2	2.17	0.43
1:3:570:GLU:OE2	1:3:617:ARG:HA	2.19	0.43
1:4:486:PHE:CD2	1:4:584:TRP:HB2	2.54	0.43
1:4:507:VAL:HG22	1:4:542:MET:CE	2.49	0.43
1:6:348:VAL:HG22	1:6:656:ILE:HG13	2.00	0.43
1:6:447:TYR:CZ	1:7:363:ALA:HB1	2.54	0.43
1:6:486:PHE:CD2	1:6:584:TRP:HB2	2.54	0.43
1:6:615:GLN:HE22	1:7:632:THR:HA	1.84	0.43
1:7:231:SER:H	1:7:323:ASN:ND2	2.17	0.43
1:A:615:GLN:HE22	1:G:632:THR:HA	1.84	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:570:GLU:OE2	1:B:617:ARG:HA	2.19	0.43
1:C:317:MET:HE1	1:C:651:PRO:HB3	2.01	0.43
1:E:701:ARG:CZ	1:E:705:GLU:HG2	2.48	0.43
1:G:507:VAL:HG22	1:G:542:MET:CE	2.49	0.43
1:J:258:TYR:OH	1:J:378:ILE:O	2.34	0.43
1:K:386:LEU:N	1:K:433:ASN:O	2.46	0.43
1:K:447:TYR:CZ	1:a:363:ALA:HB1	2.54	0.43
1:L:701:ARG:CZ	1:L:705:GLU:HG2	2.49	0.43
1:M:348:VAL:HG22	1:M:656:ILE:HG13	2.00	0.43
1:P:507:VAL:HG22	1:P:542:MET:CE	2.49	0.43
1:Q:306:ILE:HD12	1:Q:738:TYR:CE2	2.54	0.43
1:S:306:ILE:HD12	1:S:738:TYR:CE2	2.54	0.43
1:S:486:PHE:CD2	1:S:584:TRP:HB2	2.54	0.43
1:S:701:ARG:CZ	1:S:705:GLU:HG2	2.49	0.43
1:T:307:ASN:O	1:T:739:LEU:HD21	2.18	0.43
1:T:434:GLN:HE22	1:d:357:PRO:HB3	1.80	0.43
1:U:701:ARG:CZ	1:U:705:GLU:HG2	2.49	0.43
1:V:306:ILE:HD12	1:V:738:TYR:CE2	2.54	0.43
1:V:447:TYR:CZ	1:e:363:ALA:HB1	2.54	0.43
1:W:447:TYR:CZ	1:Y:363:ALA:HB1	2.54	0.43
1:W:487:PHE:CD2	1:W:512:LYS:HD2	2.54	0.43
1:X:294:HIS:HB3	1:X:621:LEU:HG	2.00	0.43
1:X:307:ASN:O	1:X:739:LEU:HD21	2.18	0.43
1:X:701:ARG:CZ	1:X:705:GLU:HG2	2.48	0.43
1:Y:348:VAL:HG22	1:Y:656:ILE:HG13	2.00	0.43
1:Y:570:GLU:OE2	1:Y:617:ARG:HA	2.19	0.43
1:Z:447:TYR:CZ	1:4:363:ALA:HB1	2.54	0.43
1:a:487:PHE:CD2	1:a:512:LYS:HD2	2.54	0.43
1:a:718:ILE:HG13	1:a:721:ALA:HB3	2.01	0.43
1:b:718:ILE:HG13	1:b:721:ALA:HB3	2.01	0.43
1:c:507:VAL:HG22	1:c:542:MET:CE	2.49	0.43
1:c:677:PHE:CE1	1:s:375:ILE:HD12	2.51	0.43
1:d:449:TRP:NE1	1:l:549:SER:OG	2.30	0.43
1:e:231:SER:H	1:e:323:ASN:ND2	2.17	0.43
1:e:570:GLU:OE2	1:e:617:ARG:HA	2.19	0.43
1:f:291:ASN:OD1	1:f:625:ILE:N	2.42	0.43
1:f:447:TYR:CZ	1:h:363:ALA:HB1	2.54	0.43
1:f:718:ILE:HG13	1:f:721:ALA:HB3	2.01	0.43
1:g:231:SER:H	1:g:323:ASN:ND2	2.17	0.43
1:g:294:HIS:HB3	1:g:621:LEU:HG	2.00	0.43
1:g:317:MET:HE1	1:g:651:PRO:HB3	2.01	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:o:701:ARG:CZ	1:o:705:GLU:HG2	2.48	0.43
1:r:306:ILE:HD12	1:r:738:TYR:CE2	2.54	0.43
1:r:447:TYR:CZ	1:s:363:ALA:HB1	2.54	0.43
1:s:294:HIS:HB3	1:s:621:LEU:HG	2.00	0.43
1:t:348:VAL:HG22	1:t:656:ILE:HG13	2.00	0.43
1:w:291:ASN:OD1	1:w:625:ILE:N	2.42	0.43
1:w:317:MET:HE1	1:w:651:PRO:HB3	2.01	0.43
1:x:570:GLU:OE2	1:x:617:ARG:HA	2.19	0.43
1:y:348:VAL:HG22	1:y:656:ILE:HG13	2.00	0.43
1:z:307:ASN:O	1:z:739:LEU:HD21	2.18	0.43
1:z:701:ARG:CZ	1:z:705:GLU:HG2	2.48	0.43
1:1:434:GLN:HE22	1:2:357:PRO:HB3	1.81	0.43
1:2:487:PHE:CD2	1:2:512:LYS:HD2	2.54	0.43
1:4:303:GLN:NE2	1:4:708:PHE:O	2.52	0.43
1:5:507:VAL:HG22	1:5:542:MET:CE	2.49	0.43
1:7:348:VAL:HG22	1:7:656:ILE:HG13	2.00	0.43
1:7:570:GLU:OE2	1:7:617:ARG:HA	2.19	0.43
1:A:677:PHE:HE1	1:B:375:ILE:CD1	2.32	0.43
1:A:718:ILE:HG13	1:A:721:ALA:HB3	2.01	0.43
1:B:307:ASN:O	1:B:739:LEU:HD21	2.18	0.43
1:C:291:ASN:OD1	1:C:625:ILE:N	2.42	0.43
1:C:303:GLN:NE2	1:C:708:PHE:O	2.52	0.43
1:C:433:ASN:O	1:b:386:LEU:N	2.46	0.43
1:C:718:ILE:HG13	1:C:721:ALA:HB3	2.01	0.43
1:D:432:HIS:HE1	1:N:631:ASP:O	2.02	0.43
1:D:631:ASP:O	1:P:432:HIS:HE1	2.02	0.43
1:E:317:MET:HE1	1:E:651:PRO:HB3	2.01	0.43
1:F:306:ILE:HD12	1:F:738:TYR:CE2	2.54	0.43
1:F:632:THR:HA	1:Q:615:GLN:HE22	1.84	0.43
1:G:317:MET:HE1	1:G:651:PRO:HB3	2.01	0.43
1:H:447:TYR:CZ	1:W:363:ALA:HB1	2.54	0.43
1:I:701:ARG:CZ	1:I:705:GLU:HG2	2.49	0.43
1:J:432:HIS:HE1	1:L:631:ASP:O	2.02	0.43
1:K:303:GLN:NE2	1:K:708:PHE:O	2.52	0.43
1:K:317:MET:HE1	1:K:651:PRO:HB3	2.01	0.43
1:L:486:PHE:CD2	1:L:584:TRP:HB2	2.54	0.43
1:L:570:GLU:OE2	1:L:617:ARG:HA	2.19	0.43
1:M:294:HIS:HB3	1:M:621:LEU:HG	2.00	0.43
1:M:303:GLN:NE2	1:M:708:PHE:O	2.52	0.43
1:O:317:MET:HE1	1:O:651:PRO:HB3	2.01	0.43
1:O:487:PHE:CD2	1:O:512:LYS:HD2	2.54	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:P:294:HIS:HB3	1:P:621:LEU:HG	2.00	0.43
1:P:375:ILE:CD1	1:Q:677:PHE:HE1	2.31	0.43
1:Q:570:GLU:OE2	1:Q:617:ARG:HA	2.19	0.43
1:S:317:MET:HE1	1:S:651:PRO:HB3	2.01	0.43
1:S:447:TYR:CZ	1:U:363:ALA:HB1	2.54	0.43
1:T:631:ASP:O	1:l:432:HIS:HE1	2.02	0.43
1:V:317:MET:HE1	1:V:651:PRO:HB3	2.01	0.43
1:V:507:VAL:HG22	1:V:542:MET:CE	2.49	0.43
1:X:486:PHE:CD2	1:X:584:TRP:HB2	2.54	0.43
1:Z:317:MET:HE1	1:Z:651:PRO:HB3	2.01	0.43
1:b:306:ILE:HD12	1:b:738:TYR:CE2	2.54	0.43
1:c:231:SER:H	1:c:323:ASN:ND2	2.17	0.43
1:c:570:GLU:OE2	1:c:617:ARG:HA	2.19	0.43
1:d:306:ILE:HD12	1:d:738:TYR:CE2	2.54	0.43
1:e:507:VAL:HG22	1:e:542:MET:CE	2.49	0.43
1:f:363:ALA:HB1	1:g:447:TYR:CZ	2.54	0.43
1:f:631:ASP:O	1:g:432:HIS:HE1	2.02	0.43
1:g:303:GLN:NE2	1:g:708:PHE:O	2.52	0.43
1:g:718:ILE:HG13	1:g:721:ALA:HB3	2.01	0.43
1:i:447:TYR:CZ	1:j:363:ALA:HB1	2.54	0.43
1:i:486:PHE:CD2	1:i:584:TRP:HB2	2.54	0.43
1:i:631:ASP:O	1:k:432:HIS:HE1	2.02	0.43
1:j:294:HIS:HB3	1:j:621:LEU:HG	2.00	0.43
1:j:487:PHE:CD2	1:j:512:LYS:HD2	2.54	0.43
1:k:231:SER:H	1:k:323:ASN:ND2	2.16	0.43
1:l:294:HIS:HB3	1:l:621:LEU:HG	2.00	0.43
1:l:306:ILE:HD12	1:l:738:TYR:CE2	2.54	0.43
1:l:487:PHE:CD2	1:l:512:LYS:HD2	2.54	0.43
1:m:307:ASN:O	1:m:739:LEU:HD21	2.18	0.43
1:n:306:ILE:HD12	1:n:738:TYR:CE2	2.54	0.43
1:o:294:HIS:HB3	1:o:621:LEU:HG	2.00	0.43
1:p:317:MET:HE1	1:p:651:PRO:HB3	2.01	0.43
1:p:507:VAL:HG22	1:p:542:MET:CE	2.48	0.43
1:r:486:PHE:CD2	1:r:584:TRP:HB2	2.54	0.43
1:t:507:VAL:HG22	1:t:542:MET:CE	2.48	0.43
1:t:701:ARG:CZ	1:t:705:GLU:HG2	2.48	0.43
1:u:432:HIS:HE1	1:v:631:ASP:O	2.02	0.43
1:v:701:ARG:CZ	1:v:705:GLU:HG2	2.48	0.43
1:w:447:TYR:CZ	1:x:363:ALA:HB1	2.54	0.43
1:w:701:ARG:CZ	1:w:705:GLU:HG2	2.49	0.43
1:x:306:ILE:HD12	1:x:738:TYR:CE2	2.54	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:y:294:HIS:HB3	1:y:621:LEU:HG	2.00	0.43
1:z:294:HIS:HB3	1:z:621:LEU:HG	2.00	0.43
1:z:631:ASP:O	1:2:432:HIS:HE1	2.02	0.43
1:2:718:ILE:HG13	1:2:721:ALA:HB3	2.01	0.43
1:3:487:PHE:CD2	1:3:512:LYS:HD2	2.54	0.43
1:3:701:ARG:CZ	1:3:705:GLU:HG2	2.48	0.43
1:6:449:TRP:NE1	1:7:549:SER:OG	2.30	0.43
1:6:487:PHE:CD2	1:6:512:LYS:HD2	2.54	0.43
1:7:507:VAL:HG22	1:7:542:MET:CE	2.49	0.43
1:7:704:PRO:HD3	1:8:299:PRO:HB2	2.01	0.43
1:A:701:ARG:CZ	1:A:705:GLU:HG2	2.48	0.42
1:B:306:ILE:HD12	1:B:738:TYR:CE2	2.54	0.42
1:B:632:THR:HA	1:L:615:GLN:HE22	1.84	0.42
1:B:677:PHE:HE1	1:C:375:ILE:CD1	2.30	0.42
1:B:704:PRO:HD3	1:I:299:PRO:HB2	2.01	0.42
1:C:231:SER:H	1:C:323:ASN:ND2	2.17	0.42
1:C:294:HIS:HB3	1:C:621:LEU:HG	2.00	0.42
1:C:306:ILE:HD12	1:C:738:TYR:CE2	2.54	0.42
1:C:363:ALA:HB1	1:M:447:TYR:CZ	2.54	0.42
1:D:231:SER:H	1:D:323:ASN:ND2	2.17	0.42
1:D:570:GLU:OE2	1:D:617:ARG:HA	2.19	0.42
1:E:570:GLU:OE2	1:E:617:ARG:HA	2.19	0.42
1:E:632:THR:HA	1:F:615:GLN:HE22	1.84	0.42
1:G:701:ARG:CZ	1:G:705:GLU:HG2	2.49	0.42
1:H:632:THR:HA	1:Y:615:GLN:HE22	1.84	0.42
1:H:718:ILE:HG13	1:H:721:ALA:HB3	2.01	0.42
1:I:317:MET:HE1	1:I:651:PRO:HB3	2.01	0.42
1:K:363:ALA:HB1	1:8:447:TYR:CZ	2.54	0.42
1:N:447:TYR:CZ	1:P:363:ALA:HB1	2.54	0.42
1:N:486:PHE:CD2	1:N:584:TRP:HB2	2.54	0.42
1:O:231:SER:H	1:O:323:ASN:ND2	2.17	0.42
1:O:306:ILE:HD12	1:O:738:TYR:CE2	2.54	0.42
1:O:549:SER:OG	1:n:449:TRP:NE1	2.30	0.42
1:O:701:ARG:CZ	1:O:705:GLU:HG2	2.49	0.42
1:P:307:ASN:O	1:P:739:LEU:HD21	2.18	0.42
1:P:487:PHE:CD2	1:P:512:LYS:HD2	2.54	0.42
1:R:317:MET:HE1	1:R:651:PRO:HB3	2.01	0.42
1:R:701:ARG:CZ	1:R:705:GLU:HG2	2.48	0.42
1:S:299:PRO:HB2	1:T:704:PRO:HD3	2.01	0.42
1:S:704:PRO:HD3	1:T:299:PRO:HB2	2.01	0.42
1:T:433:ASN:O	1:d:386:LEU:N	2.46	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:T:507:VAL:HG22	1:T:542:MET:CE	2.48	0.42
1:U:486:PHE:CD2	1:U:584:TRP:HB2	2.54	0.42
1:X:386:LEU:N	1:e:433:ASN:O	2.46	0.42
1:Y:701:ARG:CZ	1:Y:705:GLU:HG2	2.49	0.42
1:Y:704:PRO:HD3	1:Z:299:PRO:HB2	2.01	0.42
1:Z:231:SER:H	1:Z:323:ASN:ND2	2.17	0.42
1:Z:718:ILE:HG13	1:Z:721:ALA:HB3	2.01	0.42
1:a:701:ARG:CZ	1:a:705:GLU:HG2	2.48	0.42
1:b:291:ASN:OD1	1:b:625:ILE:N	2.42	0.42
1:b:486:PHE:CD2	1:b:584:TRP:HB2	2.54	0.42
1:b:570:GLU:OE2	1:b:617:ARG:HA	2.19	0.42
1:d:486:PHE:CD2	1:d:584:TRP:HB2	2.54	0.42
1:f:486:PHE:CD2	1:f:584:TRP:HB2	2.54	0.42
1:g:487:PHE:CD2	1:g:512:LYS:HD2	2.54	0.42
1:h:303:GLN:NE2	1:h:708:PHE:O	2.52	0.42
1:j:507:VAL:HG22	1:j:542:MET:CE	2.49	0.42
1:k:570:GLU:OE2	1:k:617:ARG:HA	2.19	0.42
1:l:317:MET:HE1	1:l:651:PRO:HB3	2.01	0.42
1:o:486:PHE:CD2	1:o:584:TRP:HB2	2.54	0.42
1:p:486:PHE:CD2	1:p:584:TRP:HB2	2.54	0.42
1:q:386:LEU:N	1:s:433:ASN:O	2.46	0.42
1:r:317:MET:HE1	1:r:651:PRO:HB3	2.01	0.42
1:t:317:MET:HE1	1:t:651:PRO:HB3	2.01	0.42
1:u:299:PRO:HB2	1:1:704:PRO:HD3	2.01	0.42
1:u:317:MET:HE1	1:u:651:PRO:HB3	2.01	0.42
1:u:701:ARG:CZ	1:u:705:GLU:HG2	2.49	0.42
1:w:570:GLU:OE2	1:w:617:ARG:HA	2.19	0.42
1:z:306:ILE:HD12	1:z:738:TYR:CE2	2.54	0.42
1:z:317:MET:HE1	1:z:651:PRO:HB3	2.01	0.42
1:z:327:LYS:HZ3	1:z:340:ASN:HB3	1.83	0.42
1:z:433:ASN:O	1:1:386:LEU:N	2.46	0.42
1:z:570:GLU:OE2	1:z:617:ARG:HA	2.19	0.42
1:1:307:ASN:O	1:1:739:LEU:HD21	2.18	0.42
1:3:363:ALA:HB1	1:4:447:TYR:CZ	2.54	0.42
1:5:306:ILE:HD12	1:5:738:TYR:CE2	2.54	0.42
1:5:632:THR:HA	1:7:615:GLN:HE22	1.84	0.42
1:8:231:SER:H	1:8:323:ASN:ND2	2.17	0.42
1:8:718:ILE:HG13	1:8:721:ALA:HB3	2.01	0.42
1:A:435:THR:HG21	1:G:519:ARG:HH12	1.84	0.42
1:B:434:GLN:HE22	1:J:357:PRO:HB3	1.81	0.42
1:B:447:TYR:CZ	1:J:363:ALA:HB1	2.54	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:447:TYR:CZ	1:b:363:ALA:HB1	2.54	0.42
1:C:487:PHE:CD2	1:C:512:LYS:HD2	2.54	0.42
1:H:306:ILE:HD12	1:H:738:TYR:CE2	2.54	0.42
1:I:570:GLU:OE2	1:I:617:ARG:HA	2.19	0.42
1:J:486:PHE:CD2	1:J:584:TRP:HB2	2.54	0.42
1:J:570:GLU:OE2	1:J:617:ARG:HA	2.19	0.42
1:J:704:PRO:HD3	1:K:299:PRO:HB2	2.01	0.42
1:L:306:ILE:HD12	1:L:738:TYR:CE2	2.54	0.42
1:L:317:MET:HE1	1:L:651:PRO:HB3	2.01	0.42
1:N:507:VAL:HG22	1:N:542:MET:CE	2.48	0.42
1:O:651:PRO:HA	1:O:652:PRO:HD3	1.94	0.42
1:Q:486:PHE:CD2	1:Q:584:TRP:HB2	2.54	0.42
1:Q:701:ARG:CZ	1:Q:705:GLU:HG2	2.49	0.42
1:R:294:HIS:HB3	1:R:621:LEU:HG	2.00	0.42
1:R:632:THR:HA	1:U:615:GLN:HE22	1.84	0.42
1:S:303:GLN:NE2	1:S:708:PHE:O	2.52	0.42
1:S:375:ILE:CD1	1:d:677:PHE:HE1	2.31	0.42
1:T:303:GLN:NE2	1:T:708:PHE:O	2.52	0.42
1:T:317:MET:HE1	1:T:651:PRO:HB3	2.01	0.42
1:V:231:SER:H	1:V:323:ASN:ND2	2.16	0.42
1:V:486:PHE:CD2	1:V:584:TRP:HB2	2.54	0.42
1:X:570:GLU:OE2	1:X:617:ARG:HA	2.19	0.42
1:Y:317:MET:HE1	1:Y:651:PRO:HB3	2.01	0.42
1:b:704:PRO:HD3	1:c:299:PRO:HB2	2.01	0.42
1:c:363:ALA:HB1	1:p:447:TYR:CZ	2.54	0.42
1:f:317:MET:HE1	1:f:651:PRO:HB3	2.01	0.42
1:f:570:GLU:OE2	1:f:617:ARG:HA	2.19	0.42
1:g:677:PHE:HE1	1:k:375:ILE:CD1	2.31	0.42
1:h:375:ILE:CD1	1:i:677:PHE:HE1	2.31	0.42
1:j:307:ASN:O	1:j:739:LEU:HD21	2.18	0.42
1:l:231:SER:H	1:l:323:ASN:ND2	2.17	0.42
1:l:701:ARG:CZ	1:l:705:GLU:HG2	2.49	0.42
1:m:303:GLN:NE2	1:m:708:PHE:O	2.52	0.42
1:m:317:MET:HE1	1:m:651:PRO:HB3	2.01	0.42
1:n:486:PHE:CD2	1:n:584:TRP:HB2	2.54	0.42
1:n:677:PHE:HE1	1:r:375:ILE:CD1	2.31	0.42
1:o:570:GLU:OE2	1:o:617:ARG:HA	2.19	0.42
1:q:294:HIS:HB3	1:q:621:LEU:HG	2.00	0.42
1:q:317:MET:HE1	1:q:651:PRO:HB3	2.01	0.42
1:q:632:THR:HA	1:s:615:GLN:HE22	1.84	0.42
1:q:701:ARG:CZ	1:q:705:GLU:HG2	2.49	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:r:303:GLN:NE2	1:r:708:PHE:O	2.52	0.42
1:s:486:PHE:CD2	1:s:584:TRP:HB2	2.54	0.42
1:t:363:ALA:HB1	1:v:447:TYR:CZ	2.54	0.42
1:u:447:TYR:CZ	1:v:363:ALA:HB1	2.54	0.42
1:u:570:GLU:OE2	1:u:617:ARG:HA	2.19	0.42
1:x:486:PHE:CD2	1:x:584:TRP:HB2	2.54	0.42
1:x:615:GLN:HE22	1:y:632:THR:HA	1.84	0.42
1:x:701:ARG:CZ	1:x:705:GLU:HG2	2.49	0.42
1:y:306:ILE:HD12	1:y:738:TYR:CE2	2.54	0.42
1:z:486:PHE:CD2	1:z:584:TRP:HB2	2.54	0.42
1:1:306:ILE:HD12	1:1:738:TYR:CE2	2.54	0.42
1:2:570:GLU:OE2	1:2:617:ARG:HA	2.19	0.42
1:4:317:MET:HE1	1:4:651:PRO:HB3	2.01	0.42
1:5:447:TYR:CZ	1:6:363:ALA:HB1	2.54	0.42
1:5:718:ILE:HG13	1:5:721:ALA:HB3	2.01	0.42
1:7:701:ARG:CZ	1:7:705:GLU:HG2	2.49	0.42
1:8:317:MET:HE1	1:8:651:PRO:HB3	2.01	0.42
1:B:363:ALA:HB1	1:L:447:TYR:CZ	2.54	0.42
1:G:435:THR:HG21	1:I:519:ARG:HH12	1.84	0.42
1:G:718:ILE:HG13	1:G:721:ALA:HB3	2.01	0.42
1:H:363:ALA:HB1	1:Y:447:TYR:CZ	2.54	0.42
1:K:570:GLU:OE2	1:K:617:ARG:HA	2.19	0.42
1:L:294:HIS:HB3	1:L:621:LEU:HG	2.00	0.42
1:N:249:THR:OG1	1:N:251:ARG:NH1	2.53	0.42
1:P:486:PHE:CD2	1:P:584:TRP:HB2	2.54	0.42
1:P:493:PHE:N	1:P:502:ASN:HD21	2.00	0.42
1:R:449:TRP:NE1	1:S:549:SER:OG	2.30	0.42
1:S:657:LYS:NZ	1:S:660:PRO:HD3	2.35	0.42
1:T:249:THR:OG1	1:T:251:ARG:NH1	2.53	0.42
1:T:432:HIS:HE1	1:d:631:ASP:O	2.02	0.42
1:U:307:ASN:O	1:U:739:LEU:HD21	2.18	0.42
1:V:701:ARG:CZ	1:V:705:GLU:HG2	2.49	0.42
1:W:449:TRP:NE1	1:Y:549:SER:OG	2.30	0.42
1:Y:307:ASN:O	1:Y:739:LEU:HD21	2.18	0.42
1:Z:432:HIS:HE1	1:4:631:ASP:O	2.02	0.42
1:a:231:SER:H	1:a:323:ASN:ND2	2.17	0.42
1:b:317:MET:HE1	1:b:651:PRO:HB3	2.01	0.42
1:c:433:ASN:O	1:o:386:LEU:N	2.46	0.42
1:d:657:LYS:NZ	1:d:660:PRO:HD3	2.35	0.42
1:e:299:PRO:HB2	1:f:704:PRO:HD3	2.01	0.42
1:e:487:PHE:CD2	1:e:512:LYS:HD2	2.54	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:g:306:ILE:HD12	1:g:738:TYR:CE2	2.54	0.42
1:h:657:LYS:NZ	1:h:660:PRO:HD3	2.35	0.42
1:i:249:THR:OG1	1:i:251:ARG:NH1	2.53	0.42
1:i:507:VAL:HG22	1:i:542:MET:CE	2.48	0.42
1:i:701:ARG:CZ	1:i:705:GLU:HG2	2.48	0.42
1:j:231:SER:H	1:j:323:ASN:ND2	2.16	0.42
1:m:249:THR:OG1	1:m:251:ARG:NH1	2.53	0.42
1:m:507:VAL:HG22	1:m:542:MET:CE	2.48	0.42
1:p:701:ARG:CZ	1:p:705:GLU:HG2	2.48	0.42
1:q:657:LYS:NZ	1:q:660:PRO:HD3	2.35	0.42
1:r:657:LYS:NZ	1:r:660:PRO:HD3	2.35	0.42
1:t:487:PHE:CD2	1:t:512:LYS:HD2	2.54	0.42
1:t:631:ASP:O	1:v:432:HIS:HE1	2.02	0.42
1:v:657:LYS:NZ	1:v:660:PRO:HD3	2.35	0.42
1:w:363:ALA:HB1	1:y:447:TYR:CZ	2.54	0.42
1:w:632:THR:HA	1:y:615:GLN:HE22	1.84	0.42
1:1:432:HIS:HE1	1:2:631:ASP:O	2.02	0.42
1:2:486:PHE:CD2	1:2:584:TRP:HB2	2.54	0.42
1:5:549:SER:OG	1:7:449:TRP:NE1	2.30	0.42
1:7:317:MET:HE1	1:7:651:PRO:HB3	2.01	0.42
1:A:632:THR:HA	1:I:615:GLN:HE22	1.85	0.42
1:A:657:LYS:NZ	1:A:660:PRO:HD3	2.35	0.42
1:B:432:HIS:HE1	1:J:631:ASP:O	2.02	0.42
1:C:632:THR:HA	1:M:615:GLN:HE22	1.84	0.42
1:C:677:PHE:HE1	1:D:375:ILE:CD1	2.31	0.42
1:D:363:ALA:HB1	1:P:447:TYR:CZ	2.54	0.42
1:E:291:ASN:OD1	1:E:625:ILE:N	2.42	0.42
1:E:434:GLN:HE22	1:Q:357:PRO:HB3	1.80	0.42
1:F:317:MET:HE1	1:F:651:PRO:HB3	2.01	0.42
1:G:447:TYR:CZ	1:I:363:ALA:HB1	2.54	0.42
1:G:487:PHE:CD2	1:G:512:LYS:HD2	2.54	0.42
1:I:657:LYS:NZ	1:I:660:PRO:HD3	2.35	0.42
1:J:317:MET:HE1	1:J:651:PRO:HB3	2.01	0.42
1:J:589:THR:OG1	1:J:599:THR:OG1	2.30	0.42
1:K:306:ILE:HD12	1:K:738:TYR:CE2	2.54	0.42
1:K:512:LYS:HE2	1:K:543:GLN:CB	2.50	0.42
1:K:566:LEU:HB3	1:K:733:PRO:HD3	2.02	0.42
1:K:615:GLN:HE22	1:a:632:THR:HA	1.84	0.42
1:L:512:LYS:HE2	1:L:543:GLN:CB	2.50	0.42
1:N:657:LYS:NZ	1:N:660:PRO:HD3	2.35	0.42
1:N:701:ARG:CZ	1:N:705:GLU:HG2	2.49	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:P:231:SER:H	1:P:323:ASN:ND2	2.17	0.42
1:P:514:TRP:HD1	1:P:523:MET:HB2	1.85	0.42
1:P:701:ARG:CZ	1:P:705:GLU:HG2	2.48	0.42
1:R:363:ALA:HB1	1:U:447:TYR:CZ	2.54	0.42
1:R:570:GLU:OE2	1:R:617:ARG:HA	2.19	0.42
1:R:631:ASP:O	1:U:432:HIS:HE1	2.02	0.42
1:R:657:LYS:NZ	1:R:660:PRO:HD3	2.35	0.42
1:S:507:VAL:HG22	1:S:542:MET:CE	2.49	0.42
1:U:657:LYS:NZ	1:U:660:PRO:HD3	2.35	0.42
1:W:432:HIS:HE1	1:Y:631:ASP:O	2.02	0.42
1:W:512:LYS:HE2	1:W:543:GLN:CB	2.50	0.42
1:X:657:LYS:NZ	1:X:660:PRO:HD3	2.35	0.42
1:Y:303:GLN:NE2	1:Y:708:PHE:O	2.52	0.42
1:Y:718:ILE:HG13	1:Y:721:ALA:HB3	2.01	0.42
1:a:317:MET:HE1	1:a:651:PRO:HB3	2.01	0.42
1:a:657:LYS:NZ	1:a:660:PRO:HD3	2.35	0.42
1:b:507:VAL:HG22	1:b:542:MET:CE	2.49	0.42
1:c:432:HIS:HE1	1:o:631:ASP:O	2.02	0.42
1:c:487:PHE:CD2	1:c:512:LYS:HD2	2.54	0.42
1:c:677:PHE:HE1	1:s:375:ILE:CD1	2.31	0.42
1:f:507:VAL:HG22	1:f:542:MET:CE	2.49	0.42
1:i:657:LYS:NZ	1:i:660:PRO:HD3	2.35	0.42
1:j:486:PHE:CD2	1:j:584:TRP:HB2	2.54	0.42
1:j:701:ARG:CZ	1:j:705:GLU:HG2	2.49	0.42
1:k:718:ILE:HG13	1:k:721:ALA:HB3	2.01	0.42
1:l:677:PHE:HE1	1:n:375:ILE:CD1	2.31	0.42
1:m:258:TYR:OH	1:m:378:ILE:O	2.34	0.42
1:m:375:ILE:CD1	1:s:677:PHE:HE1	2.30	0.42
1:n:657:LYS:NZ	1:n:660:PRO:HD3	2.35	0.42
1:p:231:SER:H	1:p:323:ASN:ND2	2.17	0.42
1:q:363:ALA:HB1	1:s:447:TYR:CZ	2.54	0.42
1:s:657:LYS:NZ	1:s:660:PRO:HD3	2.35	0.42
1:u:657:LYS:NZ	1:u:660:PRO:HD3	2.35	0.42
1:v:718:ILE:HG13	1:v:721:ALA:HB3	2.01	0.42
1:w:432:HIS:HE1	1:x:631:ASP:O	2.02	0.42
1:w:718:ILE:HG13	1:w:721:ALA:HB3	2.01	0.42
1:x:487:PHE:CD2	1:x:512:LYS:HD2	2.54	0.42
1:y:231:SER:H	1:y:323:ASN:ND2	2.17	0.42
1:z:512:LYS:HE2	1:z:543:GLN:CB	2.50	0.42
1:z:718:ILE:HG13	1:z:721:ALA:HB3	2.01	0.42
1:1:447:TYR:CZ	1:2:363:ALA:HB1	2.54	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:2:317:MET:HE1	1:2:651:PRO:HB3	2.01	0.42
1:2:514:TRP:HD1	1:2:523:MET:HB2	1.85	0.42
1:2:704:PRO:HD3	1:4:299:PRO:HB2	2.02	0.42
1:3:231:SER:H	1:3:323:ASN:ND2	2.17	0.42
1:3:317:MET:HE1	1:3:651:PRO:HB3	2.01	0.42
1:3:486:PHE:CD2	1:3:584:TRP:HB2	2.54	0.42
1:3:632:THR:HA	1:4:615:GLN:HE22	1.84	0.42
1:4:487:PHE:CD2	1:4:512:LYS:HD2	2.54	0.42
1:4:512:LYS:HE2	1:4:543:GLN:CB	2.50	0.42
1:4:566:LEU:HB3	1:4:733:PRO:HD3	2.02	0.42
1:7:303:GLN:NE2	1:7:708:PHE:O	2.52	0.42
1:7:307:ASN:O	1:7:739:LEU:HD21	2.18	0.42
1:7:566:LEU:HB3	1:7:733:PRO:HD3	2.02	0.42
1:A:249:THR:OG1	1:A:251:ARG:NH1	2.52	0.42
1:C:486:PHE:CD2	1:C:584:TRP:HB2	2.54	0.42
1:C:704:PRO:HD3	1:L:299:PRO:HB2	2.01	0.42
1:D:524:GLN:HB3	1:D:525:PRO:HD3	2.02	0.42
1:E:363:ALA:HB1	1:F:447:TYR:CZ	2.54	0.42
1:G:512:LYS:HE2	1:G:543:GLN:CB	2.50	0.42
1:G:566:LEU:HB3	1:G:733:PRO:HD3	2.02	0.42
1:H:512:LYS:HE2	1:H:543:GLN:CB	2.50	0.42
1:I:258:TYR:OH	1:I:378:ILE:O	2.34	0.42
1:J:512:LYS:HE2	1:J:543:GLN:CB	2.50	0.42
1:J:514:TRP:HD1	1:J:523:MET:HB2	1.85	0.42
1:K:348:VAL:HG22	1:K:656:ILE:HG13	2.00	0.42
1:K:487:PHE:CD2	1:K:512:LYS:HD2	2.54	0.42
1:L:303:GLN:NE2	1:L:708:PHE:O	2.52	0.42
1:L:566:LEU:HB3	1:L:733:PRO:HD3	2.02	0.42
1:L:718:ILE:HG13	1:L:721:ALA:HB3	2.01	0.42
1:M:657:LYS:NZ	1:M:660:PRO:HD3	2.35	0.42
1:M:718:ILE:HG13	1:M:721:ALA:HB3	2.01	0.42
1:P:524:GLN:HB3	1:P:525:PRO:HD3	2.02	0.42
1:R:435:THR:HG21	1:S:519:ARG:HH12	1.85	0.42
1:R:447:TYR:CZ	1:S:363:ALA:HB1	2.54	0.42
1:R:512:LYS:HE2	1:R:543:GLN:CB	2.50	0.42
1:U:306:ILE:HD12	1:U:738:TYR:CE2	2.54	0.42
1:V:514:TRP:HD1	1:V:523:MET:HB2	1.85	0.42
1:V:631:ASP:O	1:X:432:HIS:HE1	2.02	0.42
1:X:524:GLN:HB3	1:X:525:PRO:HD3	2.02	0.42
1:Y:566:LEU:HB3	1:Y:733:PRO:HD3	2.02	0.42
1:a:486:PHE:CD2	1:a:584:TRP:HB2	2.54	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:c:303:GLN:NE2	1:c:708:PHE:O	2.52	0.42
1:c:348:VAL:HG22	1:c:656:ILE:HG13	2.00	0.42
1:c:512:LYS:HE2	1:c:543:GLN:CB	2.50	0.42
1:c:701:ARG:CZ	1:c:705:GLU:HG2	2.48	0.42
1:d:566:LEU:HB3	1:d:733:PRO:HD3	2.02	0.42
1:e:512:LYS:HE2	1:e:543:GLN:CB	2.50	0.42
1:e:514:TRP:HD1	1:e:523:MET:HB2	1.85	0.42
1:f:512:LYS:HE2	1:f:543:GLN:CB	2.50	0.42
1:g:363:ALA:HB1	1:h:447:TYR:CZ	2.54	0.42
1:g:632:THR:HA	1:h:615:GLN:HE22	1.84	0.42
1:g:657:LYS:NZ	1:g:660:PRO:HD3	2.35	0.42
1:h:317:MET:HE1	1:h:651:PRO:HB3	2.01	0.42
1:h:718:ILE:HG13	1:h:721:ALA:HB3	2.01	0.42
1:j:375:ILE:CD1	1:x:677:PHE:HE1	2.31	0.42
1:j:447:TYR:CZ	1:k:363:ALA:HB1	2.54	0.42
1:j:514:TRP:HD1	1:j:523:MET:HB2	1.85	0.42
1:j:524:GLN:HB3	1:j:525:PRO:HD3	2.02	0.42
1:k:291:ASN:OD1	1:k:625:ILE:N	2.42	0.42
1:k:524:GLN:HB3	1:k:525:PRO:HD3	2.02	0.42
1:l:651:PRO:HA	1:l:652:PRO:HD3	1.93	0.42
1:o:524:GLN:HB3	1:o:525:PRO:HD3	2.02	0.42
1:p:514:TRP:HD1	1:p:523:MET:HB2	1.85	0.42
1:q:435:THR:HG21	1:r:519:ARG:HH12	1.85	0.42
1:q:512:LYS:HE2	1:q:543:GLN:CB	2.50	0.42
1:q:570:GLU:OE2	1:q:617:ARG:HA	2.19	0.42
1:q:718:ILE:HG13	1:q:721:ALA:HB3	2.01	0.42
1:s:307:ASN:O	1:s:739:LEU:HD21	2.18	0.42
1:s:493:PHE:N	1:s:502:ASN:HD21	2.00	0.42
1:t:512:LYS:HE2	1:t:543:GLN:CB	2.50	0.42
1:t:566:LEU:HB3	1:t:733:PRO:HD3	2.02	0.42
1:y:317:MET:HE1	1:y:651:PRO:HB3	2.01	0.42
1:z:447:TYR:CZ	1:l:363:ALA:HB1	2.54	0.42
1:2:512:LYS:HE2	1:2:543:GLN:CB	2.50	0.42
1:3:249:THR:OG1	1:3:251:ARG:NH1	2.53	0.42
1:3:512:LYS:HE2	1:3:543:GLN:CB	2.50	0.42
1:3:657:LYS:NZ	1:3:660:PRO:HD3	2.35	0.42
1:4:348:VAL:HG22	1:4:656:ILE:HG13	2.00	0.42
1:4:524:GLN:HB3	1:4:525:PRO:HD3	2.02	0.42
1:4:570:GLU:OE2	1:4:617:ARG:HA	2.19	0.42
1:6:512:LYS:HE2	1:6:543:GLN:CB	2.50	0.42
1:6:514:TRP:HD1	1:6:523:MET:HB2	1.85	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:7:718:ILE:HG13	1:7:721:ALA:HB3	2.01	0.42
1:A:651:PRO:HA	1:A:652:PRO:HD3	1.94	0.42
1:C:657:LYS:NZ	1:C:660:PRO:HD3	2.35	0.42
1:D:317:MET:HE1	1:D:651:PRO:HB3	2.01	0.42
1:D:718:ILE:HG13	1:D:721:ALA:HB3	2.01	0.42
1:E:432:HIS:HE1	1:Q:631:ASP:O	2.02	0.42
1:E:566:LEU:HB3	1:E:733:PRO:HD3	2.02	0.42
1:E:615:GLN:HE22	1:Q:632:THR:HA	1.84	0.42
1:F:231:SER:H	1:F:323:ASN:ND2	2.17	0.42
1:F:657:LYS:NZ	1:F:660:PRO:HD3	2.35	0.42
1:H:524:GLN:HB3	1:H:525:PRO:HD3	2.02	0.42
1:K:514:TRP:HD1	1:K:523:MET:HB2	1.85	0.42
1:K:524:GLN:HB3	1:K:525:PRO:HD3	2.02	0.42
1:K:631:ASP:O	1:8:432:HIS:HE1	2.02	0.42
1:K:657:LYS:NZ	1:K:660:PRO:HD3	2.35	0.42
1:L:514:TRP:HD1	1:L:523:MET:HB2	1.85	0.42
1:M:512:LYS:HE2	1:M:543:GLN:CB	2.50	0.42
1:O:432:HIS:HE1	1:m:631:ASP:O	2.03	0.42
1:Q:487:PHE:CD2	1:Q:512:LYS:HD2	2.54	0.42
1:S:512:LYS:HE2	1:S:543:GLN:CB	2.50	0.42
1:T:632:THR:HA	1:l:615:GLN:HE22	1.84	0.42
1:W:514:TRP:HD1	1:W:523:MET:HB2	1.85	0.42
1:W:570:GLU:OE2	1:W:617:ARG:HA	2.19	0.42
1:X:631:ASP:O	1:e:432:HIS:HE1	2.03	0.42
1:X:718:ILE:HG13	1:X:721:ALA:HB3	2.01	0.42
1:Z:512:LYS:HE2	1:Z:543:GLN:CB	2.50	0.42
1:a:512:LYS:HE2	1:a:543:GLN:CB	2.50	0.42
1:b:512:LYS:HE2	1:b:543:GLN:CB	2.50	0.42
1:c:514:TRP:HD1	1:c:523:MET:HB2	1.85	0.42
1:e:348:VAL:HG22	1:e:656:ILE:HG13	2.00	0.42
1:e:701:ARG:CZ	1:e:705:GLU:HG2	2.48	0.42
1:f:657:LYS:NZ	1:f:660:PRO:HD3	2.35	0.42
1:g:486:PHE:CD2	1:g:584:TRP:HB2	2.54	0.42
1:g:631:ASP:O	1:h:432:HIS:HE1	2.02	0.42
1:h:307:ASN:O	1:h:739:LEU:HD21	2.18	0.42
1:h:487:PHE:CD2	1:h:512:LYS:HD2	2.54	0.42
1:h:512:LYS:HE2	1:h:543:GLN:CB	2.50	0.42
1:i:651:PRO:HA	1:i:652:PRO:HD3	1.93	0.42
1:k:306:ILE:HD12	1:k:738:TYR:CE2	2.54	0.42
1:l:512:LYS:HE2	1:l:543:GLN:CB	2.50	0.42
1:m:570:GLU:OE2	1:m:617:ARG:HA	2.19	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:n:566:LEU:HB3	1:n:733:PRO:HD3	2.02	0.42
1:o:657:LYS:NZ	1:o:660:PRO:HD3	2.35	0.42
1:q:631:ASP:O	1:s:432:HIS:HE1	2.02	0.42
1:r:507:VAL:HG22	1:r:542:MET:CE	2.49	0.42
1:t:447:TYR:CZ	1:u:363:ALA:HB1	2.54	0.42
1:t:519:ARG:HH12	1:v:435:THR:HG21	1.85	0.42
1:t:718:ILE:HG13	1:t:721:ALA:HB3	2.01	0.42
1:u:258:TYR:OH	1:u:378:ILE:O	2.34	0.42
1:v:249:THR:OG1	1:v:251:ARG:NH1	2.52	0.42
1:w:615:GLN:HE22	1:x:632:THR:HA	1.84	0.42
1:z:566:LEU:HB3	1:z:733:PRO:HD3	2.02	0.42
1:1:566:LEU:HB3	1:1:733:PRO:HD3	2.02	0.42
1:2:303:GLN:NE2	1:2:708:PHE:O	2.52	0.42
1:2:589:THR:OG1	1:2:599:THR:OG1	2.30	0.42
1:3:306:ILE:HD12	1:3:738:TYR:CE2	2.54	0.42
1:4:306:ILE:HD12	1:4:738:TYR:CE2	2.54	0.42
1:4:514:TRP:HD1	1:4:523:MET:HB2	1.85	0.42
1:4:657:LYS:NZ	1:4:660:PRO:HD3	2.35	0.42
1:5:512:LYS:HE2	1:5:543:GLN:CB	2.50	0.42
1:5:524:GLN:HB3	1:5:525:PRO:HD3	2.02	0.42
1:6:303:GLN:NE2	1:6:708:PHE:O	2.52	0.42
1:6:432:HIS:HE1	1:7:631:ASP:O	2.02	0.42
1:6:570:GLU:OE2	1:6:617:ARG:HA	2.19	0.42
1:7:486:PHE:CD2	1:7:584:TRP:HB2	2.54	0.42
1:8:512:LYS:HE2	1:8:543:GLN:CB	2.50	0.42
1:A:306:ILE:HD12	1:A:738:TYR:CE2	2.54	0.42
1:A:566:LEU:HB3	1:A:733:PRO:HD3	2.02	0.42
1:B:303:GLN:NE2	1:B:708:PHE:O	2.52	0.42
1:B:512:LYS:HE2	1:B:543:GLN:CB	2.50	0.42
1:D:306:ILE:HD12	1:D:738:TYR:CE2	2.54	0.42
1:D:514:TRP:HD1	1:D:523:MET:HB2	1.85	0.42
1:E:631:ASP:O	1:F:432:HIS:HE1	2.02	0.42
1:E:718:ILE:HG13	1:E:721:ALA:HB3	2.01	0.42
1:G:299:PRO:HB2	1:H:704:PRO:HD3	2.01	0.42
1:H:303:GLN:NE2	1:H:708:PHE:O	2.52	0.42
1:H:486:PHE:CD2	1:H:584:TRP:HB2	2.54	0.42
1:H:570:GLU:OE2	1:H:617:ARG:HA	2.19	0.42
1:J:303:GLN:NE2	1:J:708:PHE:O	2.52	0.42
1:J:449:TRP:NE1	1:L:549:SER:OG	2.30	0.42
1:M:317:MET:HE1	1:M:651:PRO:HB3	2.01	0.42
1:O:512:LYS:HE2	1:O:543:GLN:CB	2.50	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:O:657:LYS:NZ	1:O:660:PRO:HD3	2.35	0.42
1:P:303:GLN:NE2	1:P:708:PHE:O	2.52	0.42
1:R:354:TYR:OH	1:R:650:PRO:O	2.27	0.42
1:R:718:ILE:HG13	1:R:721:ALA:HB3	2.01	0.42
1:T:615:GLN:HE22	1:d:632:THR:HA	1.84	0.42
1:U:375:ILE:CD1	1:e:677:PHE:HE1	2.31	0.42
1:U:512:LYS:HE2	1:U:543:GLN:CB	2.50	0.42
1:U:566:LEU:HB3	1:U:733:PRO:HD3	2.02	0.42
1:U:704:PRO:HD3	1:V:299:PRO:HB2	2.01	0.42
1:W:303:GLN:NE2	1:W:708:PHE:O	2.52	0.42
1:W:566:LEU:HB3	1:W:733:PRO:HD3	2.02	0.42
1:W:589:THR:HG1	1:W:599:THR:HG1	1.59	0.42
1:X:512:LYS:HE2	1:X:543:GLN:CB	2.50	0.42
1:X:519:ARG:HH12	1:e:435:THR:HG21	1.84	0.42
1:a:249:THR:OG1	1:a:251:ARG:NH1	2.53	0.42
1:a:299:PRO:HB2	1:3:704:PRO:HD3	2.02	0.42
1:a:306:ILE:HD12	1:a:738:TYR:CE2	2.54	0.42
1:a:447:TYR:CZ	1:8:363:ALA:HB1	2.54	0.42
1:a:704:PRO:HD3	1:3:299:PRO:HB2	2.02	0.42
1:b:507:VAL:HG13	1:b:543:GLN:NE2	2.32	0.42
1:c:657:LYS:NZ	1:c:660:PRO:HD3	2.35	0.42
1:d:512:LYS:HE2	1:d:543:GLN:CB	2.50	0.42
1:e:303:GLN:NE2	1:e:708:PHE:O	2.52	0.42
1:e:524:GLN:HB3	1:e:525:PRO:HD3	2.02	0.42
1:e:657:LYS:NZ	1:e:660:PRO:HD3	2.35	0.42
1:f:507:VAL:HG13	1:f:543:GLN:NE2	2.32	0.42
1:f:549:SER:OG	1:g:449:TRP:NE1	2.30	0.42
1:j:303:GLN:NE2	1:j:708:PHE:O	2.52	0.42
1:k:512:LYS:HE2	1:k:543:GLN:CB	2.50	0.42
1:l:507:VAL:HG13	1:l:543:GLN:NE2	2.32	0.42
1:m:447:TYR:CZ	1:n:363:ALA:HB1	2.54	0.42
1:n:512:LYS:HE2	1:n:543:GLN:CB	2.50	0.42
1:o:432:HIS:HE1	1:p:631:ASP:O	2.02	0.42
1:o:718:ILE:HG13	1:o:721:ALA:HB3	2.01	0.42
1:p:299:PRO:HB2	1:s:704:PRO:HD3	2.02	0.42
1:q:447:TYR:CZ	1:r:363:ALA:HB1	2.54	0.42
1:r:512:LYS:HE2	1:r:543:GLN:CB	2.50	0.42
1:s:306:ILE:HD12	1:s:738:TYR:CE2	2.54	0.42
1:s:566:LEU:HB3	1:s:733:PRO:HD3	2.02	0.42
1:s:570:GLU:OE2	1:s:617:ARG:HA	2.19	0.42
1:t:435:THR:HG21	1:u:519:ARG:HH12	1.85	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:t:657:LYS:NZ	1:t:660:PRO:HD3	2.35	0.42
1:v:566:LEU:HB3	1:v:733:PRO:HD3	2.02	0.42
1:w:434:GLN:HE22	1:x:357:PRO:HB3	1.80	0.42
1:w:566:LEU:HB3	1:w:733:PRO:HD3	2.02	0.42
1:w:631:ASP:O	1:y:432:HIS:HE1	2.02	0.42
1:y:524:GLN:HB3	1:y:525:PRO:HD3	2.02	0.42
1:y:657:LYS:NZ	1:y:660:PRO:HD3	2.35	0.42
1:z:514:TRP:HD1	1:z:523:MET:HB2	1.85	0.42
1:z:637:HIS:O	1:z:639:SER:N	2.51	0.42
1:1:512:LYS:HE2	1:1:543:GLN:CB	2.50	0.42
1:5:363:ALA:HB1	1:7:447:TYR:CZ	2.54	0.42
1:5:486:PHE:CD2	1:5:584:TRP:HB2	2.54	0.42
1:6:566:LEU:HB3	1:6:733:PRO:HD3	2.02	0.42
1:8:487:PHE:CD2	1:8:512:LYS:HD2	2.54	0.42
1:A:432:HIS:HE1	1:G:631:ASP:O	2.03	0.42
1:A:570:GLU:OE2	1:A:617:ARG:HA	2.19	0.42
1:C:512:LYS:HE2	1:C:543:GLN:CB	2.50	0.42
1:D:435:THR:HG21	1:N:519:ARG:HH12	1.85	0.42
1:D:512:LYS:HE2	1:D:543:GLN:CB	2.50	0.42
1:D:566:LEU:HB3	1:D:733:PRO:HD3	2.02	0.42
1:D:704:PRO:HD3	1:M:299:PRO:HB2	2.01	0.42
1:F:486:PHE:CD2	1:F:584:TRP:HB2	2.54	0.42
1:F:524:GLN:HB3	1:F:525:PRO:HD3	2.02	0.42
1:G:657:LYS:NZ	1:G:660:PRO:HD3	2.35	0.42
1:I:514:TRP:HD1	1:I:523:MET:HB2	1.85	0.42
1:M:307:ASN:O	1:M:739:LEU:HD21	2.18	0.42
1:M:486:PHE:CD2	1:M:584:TRP:HB2	2.54	0.42
1:M:487:PHE:CD2	1:M:512:LYS:HD2	2.54	0.42
1:M:507:VAL:HG22	1:M:542:MET:CE	2.49	0.42
1:N:432:HIS:HE1	1:P:631:ASP:O	2.02	0.42
1:O:677:PHE:HE1	1:d:375:ILE:CD1	2.31	0.42
1:P:317:MET:HE1	1:P:651:PRO:HB3	2.01	0.42
1:R:486:PHE:CD2	1:R:584:TRP:HB2	2.54	0.42
1:T:570:GLU:OE2	1:T:617:ARG:HA	2.19	0.42
1:U:570:GLU:OE2	1:U:617:ARG:HA	2.19	0.42
1:W:255:LEU:HD22	1:W:656:ILE:HG12	2.02	0.42
1:W:657:LYS:NZ	1:W:660:PRO:HD3	2.35	0.42
1:X:317:MET:HE1	1:X:651:PRO:HB3	2.01	0.42
1:Y:486:PHE:CD2	1:Y:584:TRP:HB2	2.54	0.42
1:Z:363:ALA:HB1	1:3:447:TYR:CZ	2.54	0.42
1:Z:486:PHE:CD2	1:Z:584:TRP:HB2	2.54	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Z:487:PHE:CD2	1:Z:512:LYS:HD2	2.54	0.42
1:Z:514:TRP:HD1	1:Z:523:MET:HB2	1.85	0.42
1:a:566:LEU:HB3	1:a:733:PRO:HD3	2.02	0.42
1:b:657:LYS:NZ	1:b:660:PRO:HD3	2.35	0.42
1:d:294:HIS:HB3	1:d:621:LEU:HG	2.00	0.42
1:d:507:VAL:HG22	1:d:542:MET:CE	2.49	0.42
1:g:704:PRO:HD3	1:z:299:PRO:HB2	2.02	0.42
1:h:486:PHE:CD2	1:h:584:TRP:HB2	2.54	0.42
1:i:363:ALA:HB1	1:k:447:TYR:CZ	2.54	0.42
1:i:519:ARG:HH12	1:k:435:THR:HG21	1.85	0.42
1:k:317:MET:HE1	1:k:651:PRO:HB3	2.01	0.42
1:k:566:LEU:HB3	1:k:733:PRO:HD3	2.02	0.42
1:m:657:LYS:NZ	1:m:660:PRO:HD3	2.35	0.42
1:n:507:VAL:HG22	1:n:542:MET:CE	2.49	0.42
1:o:317:MET:HE1	1:o:651:PRO:HB3	2.01	0.42
1:s:512:LYS:HE2	1:s:543:GLN:CB	2.50	0.42
1:t:533:PHE:CE1	1:t:579:VAL:HG21	2.55	0.42
1:u:514:TRP:HD1	1:u:523:MET:HB2	1.85	0.42
1:v:317:MET:HE1	1:v:651:PRO:HB3	2.01	0.42
1:v:570:GLU:OE2	1:v:617:ARG:HA	2.19	0.42
1:v:651:PRO:HA	1:v:652:PRO:HD3	1.94	0.42
1:x:718:ILE:HG13	1:x:721:ALA:HB3	2.00	0.42
1:y:486:PHE:CD2	1:y:584:TRP:HB2	2.54	0.42
1:1:303:GLN:NE2	1:1:708:PHE:O	2.52	0.42
1:1:615:GLN:HE22	1:2:632:THR:HA	1.84	0.42
1:1:657:LYS:NZ	1:1:660:PRO:HD3	2.35	0.42
1:3:524:GLN:HB3	1:3:525:PRO:HD3	2.02	0.42
1:3:566:LEU:HB3	1:3:733:PRO:HD3	2.02	0.42
1:5:303:GLN:NE2	1:5:708:PHE:O	2.52	0.42
1:6:255:LEU:HD22	1:6:656:ILE:HG12	2.02	0.42
1:6:657:LYS:NZ	1:6:660:PRO:HD3	2.35	0.42
1:8:514:TRP:HD1	1:8:523:MET:HB2	1.85	0.42
1:8:566:LEU:HB3	1:8:733:PRO:HD3	2.02	0.42
1:A:317:MET:HE1	1:A:651:PRO:HB3	2.01	0.42
1:B:566:LEU:HB3	1:B:733:PRO:HD3	2.02	0.42
1:B:657:LYS:NZ	1:B:660:PRO:HD3	2.35	0.42
1:B:701:ARG:CZ	1:B:705:GLU:HG2	2.48	0.42
1:C:631:ASP:O	1:M:432:HIS:HE1	2.02	0.42
1:D:291:ASN:OD1	1:D:625:ILE:N	2.42	0.42
1:F:307:ASN:O	1:F:739:LEU:HD21	2.18	0.42
1:G:507:VAL:HG13	1:G:543:GLN:NE2	2.32	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:533:PHE:CE1	1:G:579:VAL:HG21	2.55	0.42
1:H:231:SER:H	1:H:323:ASN:ND2	2.17	0.42
1:I:303:GLN:NE2	1:I:708:PHE:O	2.52	0.42
1:L:249:THR:OG1	1:L:251:ARG:NH1	2.52	0.42
1:O:449:TRP:NE1	1:m:549:SER:OG	2.30	0.42
1:P:306:ILE:HD12	1:P:738:TYR:CE2	2.54	0.42
1:P:718:ILE:HG13	1:P:721:ALA:HB3	2.01	0.42
1:Q:255:LEU:HD22	1:Q:656:ILE:HG12	2.02	0.42
1:R:255:LEU:HD22	1:R:656:ILE:HG12	2.02	0.42
1:T:375:ILE:CD1	1:U:677:PHE:HE1	2.30	0.42
1:T:657:LYS:NZ	1:T:660:PRO:HD3	2.35	0.42
1:U:493:PHE:N	1:U:502:ASN:HD21	2.00	0.42
1:U:514:TRP:HD1	1:U:523:MET:HB2	1.85	0.42
1:W:299:PRO:HB2	1:X:704:PRO:HD3	2.02	0.42
1:Z:294:HIS:HB3	1:Z:621:LEU:HG	2.00	0.42
1:Z:533:PHE:CE1	1:Z:579:VAL:HG21	2.55	0.42
1:a:303:GLN:NE2	1:a:708:PHE:O	2.52	0.42
1:a:524:GLN:HB3	1:a:525:PRO:HD3	2.02	0.42
1:c:524:GLN:HB3	1:c:525:PRO:HD3	2.02	0.42
1:c:533:PHE:CE1	1:c:579:VAL:HG21	2.55	0.42
1:d:317:MET:HE1	1:d:651:PRO:HB3	2.01	0.42
1:e:533:PHE:CE1	1:e:579:VAL:HG21	2.55	0.42
1:g:354:TYR:OH	1:g:650:PRO:O	2.27	0.42
1:g:512:LYS:HE2	1:g:543:GLN:CB	2.50	0.42
1:h:507:VAL:HG22	1:h:542:MET:CE	2.49	0.42
1:h:704:PRO:HD3	1:k:299:PRO:HB2	2.02	0.42
1:k:514:TRP:HD1	1:k:523:MET:HB2	1.85	0.42
1:m:600:ARG:HH12	1:n:513:GLN:CD	2.28	0.42
1:n:514:TRP:HD1	1:n:523:MET:HB2	1.85	0.42
1:o:231:SER:H	1:o:323:ASN:ND2	2.17	0.42
1:o:512:LYS:HE2	1:o:543:GLN:CB	2.50	0.42
1:o:704:PRO:HD3	1:6:299:PRO:HB2	2.01	0.42
1:q:566:LEU:HB3	1:q:733:PRO:HD3	2.02	0.42
1:s:514:TRP:HD1	1:s:523:MET:HB2	1.85	0.42
1:t:299:PRO:HB2	1:5:704:PRO:HD3	2.01	0.42
1:t:432:HIS:HE1	1:u:631:ASP:O	2.02	0.42
1:t:514:TRP:HD1	1:t:523:MET:HB2	1.85	0.42
1:u:566:LEU:HB3	1:u:733:PRO:HD3	2.02	0.42
1:v:306:ILE:HD12	1:v:738:TYR:CE2	2.54	0.42
1:x:258:TYR:OH	1:x:378:ILE:O	2.34	0.42
1:x:514:TRP:HD1	1:x:523:MET:HB2	1.85	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:y:303:GLN:NE2	1:y:708:PHE:O	2.52	0.42
1:5:231:SER:H	1:5:323:ASN:ND2	2.17	0.42
1:5:570:GLU:OE2	1:5:617:ARG:HA	2.19	0.42
1:A:299:PRO:HB2	1:F:704:PRO:HD3	2.01	0.42
1:A:513:GLN:CD	1:I:600:ARG:HH12	2.28	0.42
1:A:631:ASP:O	1:I:432:HIS:HE1	2.03	0.42
1:A:637:HIS:O	1:A:639:SER:N	2.51	0.42
1:C:524:GLN:HB3	1:C:525:PRO:HD3	2.02	0.42
1:C:533:PHE:CE1	1:C:579:VAL:HG21	2.55	0.42
1:D:299:PRO:HB2	1:M:704:PRO:HD3	2.02	0.42
1:D:447:TYR:CZ	1:N:363:ALA:HB1	2.54	0.42
1:D:651:PRO:HA	1:D:652:PRO:HD3	1.94	0.42
1:E:589:THR:HG1	1:E:599:THR:HG1	1.59	0.42
1:E:657:LYS:NZ	1:E:660:PRO:HD3	2.35	0.42
1:F:303:GLN:NE2	1:F:708:PHE:O	2.52	0.42
1:F:507:VAL:HG22	1:F:542:MET:CE	2.49	0.42
1:F:519:ARG:HH12	1:Q:435:THR:HG21	1.85	0.42
1:G:704:PRO:HD3	1:H:299:PRO:HB2	2.01	0.42
1:H:514:TRP:HD1	1:H:523:MET:HB2	1.85	0.42
1:I:512:LYS:HE2	1:I:543:GLN:CB	2.50	0.42
1:I:566:LEU:HB3	1:I:733:PRO:HD3	2.02	0.42
1:L:637:HIS:O	1:L:639:SER:N	2.51	0.42
1:M:533:PHE:CE1	1:M:579:VAL:HG21	2.55	0.42
1:M:632:THR:HA	1:b:615:GLN:HE22	1.84	0.42
1:N:514:TRP:HD1	1:N:523:MET:HB2	1.85	0.42
1:O:507:VAL:HG13	1:O:543:GLN:NE2	2.32	0.42
1:Q:514:TRP:HD1	1:Q:523:MET:HB2	1.85	0.42
1:Q:718:ILE:HG13	1:Q:721:ALA:HB3	2.01	0.42
1:R:303:GLN:NE2	1:R:708:PHE:O	2.52	0.42
1:R:566:LEU:HB3	1:R:733:PRO:HD3	2.02	0.42
1:S:435:THR:HG21	1:U:519:ARG:HH12	1.84	0.42
1:S:718:ILE:HG13	1:S:721:ALA:HB3	2.01	0.42
1:T:524:GLN:HB3	1:T:525:PRO:HD3	2.02	0.42
1:U:303:GLN:NE2	1:U:708:PHE:O	2.52	0.42
1:U:524:GLN:HB3	1:U:525:PRO:HD3	2.02	0.42
1:X:566:LEU:HB3	1:X:733:PRO:HD3	2.02	0.42
1:X:609:LEU:HB2	1:X:612:MET:HE3	2.02	0.42
1:Z:303:GLN:NE2	1:Z:708:PHE:O	2.52	0.42
1:b:375:ILE:HD12	1:o:677:PHE:CE1	2.52	0.42
1:d:432:HIS:HE1	1:l:631:ASP:O	2.02	0.42
1:d:514:TRP:HD1	1:d:523:MET:HB2	1.85	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:g:533:PHE:CE1	1:g:579:VAL:HG21	2.55	0.42
1:g:609:LEU:HB2	1:g:612:MET:HE3	2.02	0.42
1:h:533:PHE:CE1	1:h:579:VAL:HG21	2.55	0.42
1:h:651:PRO:HA	1:h:652:PRO:HD3	1.94	0.42
1:i:432:HIS:HE1	1:j:631:ASP:O	2.02	0.42
1:i:435:THR:HG21	1:j:519:ARG:HH12	1.85	0.42
1:j:677:PHE:CE1	1:l:375:ILE:HD12	2.51	0.42
1:k:303:GLN:NE2	1:k:708:PHE:O	2.52	0.42
1:l:657:LYS:NZ	1:l:660:PRO:HD3	2.35	0.42
1:m:524:GLN:HB3	1:m:525:PRO:HD3	2.02	0.42
1:o:566:LEU:HB3	1:o:733:PRO:HD3	2.02	0.42
1:o:609:LEU:HB2	1:o:612:MET:HE3	2.02	0.42
1:q:255:LEU:HD22	1:q:656:ILE:HG12	2.02	0.42
1:q:303:GLN:NE2	1:q:708:PHE:O	2.52	0.42
1:q:486:PHE:CD2	1:q:584:TRP:HB2	2.54	0.42
1:r:432:HIS:HE1	1:s:631:ASP:O	2.02	0.42
1:r:718:ILE:HG13	1:r:721:ALA:HB3	2.01	0.42
1:u:303:GLN:NE2	1:u:708:PHE:O	2.52	0.42
1:w:486:PHE:CD2	1:w:584:TRP:HB2	2.54	0.42
1:y:291:ASN:OD1	1:y:625:ILE:N	2.42	0.42
1:y:307:ASN:O	1:y:739:LEU:HD21	2.18	0.42
1:y:507:VAL:HG22	1:y:542:MET:CE	2.49	0.42
1:z:249:THR:OG1	1:z:251:ARG:NH1	2.52	0.42
1:2:657:LYS:NZ	1:2:660:PRO:HD3	2.35	0.42
1:3:303:GLN:NE2	1:3:708:PHE:O	2.52	0.42
1:5:514:TRP:HD1	1:5:523:MET:HB2	1.85	0.42
1:6:533:PHE:CE1	1:6:579:VAL:HG21	2.55	0.42
1:8:486:PHE:CD2	1:8:584:TRP:HB2	2.54	0.42
1:8:524:GLN:HB3	1:8:525:PRO:HD3	2.02	0.42
1:8:533:PHE:CE1	1:8:579:VAL:HG21	2.55	0.42
1:A:512:LYS:HE2	1:A:543:GLN:CB	2.50	0.41
1:A:533:PHE:CE1	1:A:579:VAL:HG21	2.55	0.41
1:D:303:GLN:NE2	1:D:708:PHE:O	2.52	0.41
1:D:519:ARG:HH12	1:P:435:THR:HG21	1.85	0.41
1:D:533:PHE:CE1	1:D:579:VAL:HG21	2.55	0.41
1:E:486:PHE:CD2	1:E:584:TRP:HB2	2.54	0.41
1:E:524:GLN:HB3	1:E:525:PRO:HD3	2.02	0.41
1:F:533:PHE:CE1	1:F:579:VAL:HG21	2.55	0.41
1:G:514:TRP:HD1	1:G:523:MET:HB2	1.85	0.41
1:J:657:LYS:NZ	1:J:660:PRO:HD3	2.35	0.41
1:L:533:PHE:CE1	1:L:579:VAL:HG21	2.55	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:615:GLN:HE22	1:P:632:THR:HA	1.84	0.41
1:N:704:PRO:HD3	1:O:299:PRO:HB2	2.01	0.41
1:O:249:THR:OG1	1:O:251:ARG:NH1	2.53	0.41
1:S:432:HIS:HE1	1:U:631:ASP:O	2.02	0.41
1:S:514:TRP:HD1	1:S:523:MET:HB2	1.85	0.41
1:T:447:TYR:CZ	1:d:363:ALA:HB1	2.54	0.41
1:T:514:TRP:HD1	1:T:523:MET:HB2	1.85	0.41
1:V:255:LEU:HD22	1:V:656:ILE:HG12	2.02	0.41
1:W:533:PHE:CE1	1:W:579:VAL:HG21	2.55	0.41
1:X:231:SER:H	1:X:323:ASN:ND2	2.17	0.41
1:Z:524:GLN:HB3	1:Z:525:PRO:HD3	2.02	0.41
1:Z:566:LEU:HB3	1:Z:733:PRO:HD3	2.02	0.41
1:b:524:GLN:HB3	1:b:525:PRO:HD3	2.02	0.41
1:c:386:LEU:N	1:p:433:ASN:O	2.46	0.41
1:f:609:LEU:HB2	1:f:612:MET:HE3	2.02	0.41
1:g:249:THR:OG1	1:g:251:ARG:NH1	2.53	0.41
1:g:524:GLN:HB3	1:g:525:PRO:HD3	2.02	0.41
1:g:566:LEU:HB3	1:g:733:PRO:HD3	2.02	0.41
1:i:514:TRP:HD1	1:i:523:MET:HB2	1.85	0.41
1:j:306:ILE:HD12	1:j:738:TYR:CE2	2.54	0.41
1:j:317:MET:HE1	1:j:651:PRO:HB3	2.01	0.41
1:j:657:LYS:NZ	1:j:660:PRO:HD3	2.35	0.41
1:j:718:ILE:HG13	1:j:721:ALA:HB3	2.01	0.41
1:k:533:PHE:CE1	1:k:579:VAL:HG21	2.55	0.41
1:l:249:THR:OG1	1:l:251:ARG:NH1	2.53	0.41
1:n:258:TYR:OH	1:n:378:ILE:O	2.34	0.41
1:n:294:HIS:HB3	1:n:621:LEU:HG	2.00	0.41
1:n:317:MET:HE1	1:n:651:PRO:HB3	2.01	0.41
1:p:375:ILE:HD12	1:q:677:PHE:CE1	2.51	0.41
1:p:524:GLN:HB3	1:p:525:PRO:HD3	2.02	0.41
1:p:566:LEU:HB3	1:p:733:PRO:HD3	2.02	0.41
1:r:514:TRP:HD1	1:r:523:MET:HB2	1.85	0.41
1:s:303:GLN:NE2	1:s:708:PHE:O	2.52	0.41
1:s:524:GLN:HB3	1:s:525:PRO:HD3	2.02	0.41
1:t:291:ASN:OD1	1:t:625:ILE:N	2.42	0.41
1:t:303:GLN:NE2	1:t:708:PHE:O	2.52	0.41
1:t:433:ASN:O	1:u:386:LEU:N	2.46	0.41
1:u:512:LYS:HE2	1:u:543:GLN:CB	2.50	0.41
1:v:637:HIS:O	1:v:639:SER:N	2.51	0.41
1:w:512:LYS:HE2	1:w:543:GLN:CB	2.50	0.41
1:w:524:GLN:HB3	1:w:525:PRO:HD3	2.02	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:x:255:LEU:HD22	1:x:656:ILE:HG12	2.02	0.41
1:x:435:THR:HG21	1:y:519:ARG:HH12	1.85	0.41
1:y:533:PHE:CE1	1:y:579:VAL:HG21	2.55	0.41
1:z:303:GLN:NE2	1:z:708:PHE:O	2.52	0.41
1:1:701:ARG:CZ	1:1:705:GLU:HG2	2.49	0.41
1:3:519:ARG:HH12	1:4:435:THR:HG21	1.85	0.41
1:6:317:MET:HE1	1:6:651:PRO:HB3	2.01	0.41
1:7:255:LEU:HD22	1:7:656:ILE:HG12	2.02	0.41
1:8:255:LEU:HD22	1:8:656:ILE:HG12	2.02	0.41
1:8:294:HIS:HB3	1:8:621:LEU:HG	2.00	0.41
1:A:628:LYS:HG3	1:A:650:PRO:HD3	2.03	0.41
1:B:486:PHE:CD2	1:B:584:TRP:HB2	2.54	0.41
1:B:512:LYS:HB3	1:L:588:PRO:HD3	2.03	0.41
1:B:615:GLN:HE22	1:J:632:THR:HA	1.84	0.41
1:C:566:LEU:HB3	1:C:733:PRO:HD3	2.02	0.41
1:C:609:LEU:HB2	1:C:612:MET:HE3	2.02	0.41
1:F:631:ASP:O	1:Q:432:HIS:HE1	2.02	0.41
1:G:303:GLN:NE2	1:G:708:PHE:O	2.52	0.41
1:G:433:ASN:O	1:I:386:LEU:N	2.45	0.41
1:G:524:GLN:HB3	1:G:525:PRO:HD3	2.02	0.41
1:J:609:LEU:HB2	1:J:612:MET:HE3	2.03	0.41
1:L:346:VAL:O	1:L:409:LEU:N	2.52	0.41
1:N:435:THR:HG21	1:P:519:ARG:HH12	1.85	0.41
1:N:487:PHE:CD2	1:N:512:LYS:HD2	2.54	0.41
1:N:628:LYS:HG3	1:N:650:PRO:HD3	2.03	0.41
1:N:651:PRO:HA	1:N:652:PRO:HD3	1.94	0.41
1:O:566:LEU:HB3	1:O:733:PRO:HD3	2.02	0.41
1:Q:258:TYR:OH	1:Q:378:ILE:O	2.34	0.41
1:V:524:GLN:HB3	1:V:525:PRO:HD3	2.02	0.41
1:V:566:LEU:HB3	1:V:733:PRO:HD3	2.02	0.41
1:X:533:PHE:CE1	1:X:579:VAL:HG21	2.55	0.41
1:X:651:PRO:HA	1:X:652:PRO:HD3	1.94	0.41
1:Y:255:LEU:HD22	1:Y:656:ILE:HG12	2.02	0.41
1:Y:299:PRO:HB2	1:Z:704:PRO:HD3	2.02	0.41
1:b:609:LEU:HB2	1:b:612:MET:HE3	2.02	0.41
1:c:435:THR:HG21	1:o:519:ARG:HH12	1.85	0.41
1:h:493:PHE:N	1:h:502:ASN:HD21	2.00	0.41
1:i:255:LEU:HD22	1:i:656:ILE:HG12	2.02	0.41
1:i:487:PHE:CD2	1:i:512:LYS:HD2	2.54	0.41
1:i:628:LYS:HG3	1:i:650:PRO:HD3	2.03	0.41
1:l:524:GLN:HB3	1:l:525:PRO:HD3	2.02	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:l:566:LEU:HB3	1:l:733:PRO:HD3	2.02	0.41
1:m:514:TRP:HD1	1:m:523:MET:HB2	1.85	0.41
1:n:291:ASN:OD1	1:n:625:ILE:N	2.42	0.41
1:n:303:GLN:NE2	1:n:708:PHE:O	2.52	0.41
1:o:435:THR:HG21	1:p:519:ARG:HH12	1.85	0.41
1:o:514:TRP:HD1	1:o:523:MET:HB2	1.85	0.41
1:o:533:PHE:CE1	1:o:579:VAL:HG21	2.55	0.41
1:p:255:LEU:HD22	1:p:656:ILE:HG12	2.02	0.41
1:p:512:LYS:HE2	1:p:543:GLN:CB	2.50	0.41
1:r:609:LEU:HB2	1:r:612:MET:HE3	2.02	0.41
1:u:524:GLN:HB3	1:u:525:PRO:HD3	2.02	0.41
1:v:487:PHE:CD2	1:v:512:LYS:HD2	2.54	0.41
1:v:512:LYS:HE2	1:v:543:GLN:CB	2.50	0.41
1:w:255:LEU:HD22	1:w:656:ILE:HG12	2.02	0.41
1:w:657:LYS:NZ	1:w:660:PRO:HD3	2.35	0.41
1:z:346:VAL:O	1:z:409:LEU:N	2.52	0.41
1:z:533:PHE:CE1	1:z:579:VAL:HG21	2.55	0.41
1:7:354:TYR:OH	1:7:650:PRO:O	2.27	0.41
1:8:303:GLN:NE2	1:8:708:PHE:O	2.52	0.41
1:A:487:PHE:CD2	1:A:512:LYS:HD2	2.54	0.41
1:A:514:TRP:HD1	1:A:523:MET:HB2	1.85	0.41
1:A:609:LEU:HB2	1:A:612:MET:HE3	2.02	0.41
1:B:533:PHE:CE1	1:B:579:VAL:HG21	2.55	0.41
1:C:249:THR:OG1	1:C:251:ARG:NH1	2.53	0.41
1:C:255:LEU:HD22	1:C:656:ILE:HG12	2.02	0.41
1:C:354:TYR:OH	1:C:650:PRO:O	2.27	0.41
1:C:449:TRP:NE1	1:b:549:SER:OG	2.30	0.41
1:E:512:LYS:HE2	1:E:543:GLN:CB	2.50	0.41
1:F:718:ILE:HG13	1:F:721:ALA:HB3	2.01	0.41
1:K:435:THR:HG21	1:a:519:ARG:HH12	1.85	0.41
1:M:628:LYS:HG3	1:M:650:PRO:HD3	2.03	0.41
1:M:651:PRO:HA	1:M:652:PRO:HD3	1.94	0.41
1:N:255:LEU:HD22	1:N:656:ILE:HG12	2.02	0.41
1:N:524:GLN:HB3	1:N:525:PRO:HD3	2.02	0.41
1:N:533:PHE:CE1	1:N:579:VAL:HG21	2.55	0.41
1:O:303:GLN:NE2	1:O:708:PHE:O	2.52	0.41
1:O:375:ILE:HD12	1:P:677:PHE:CE1	2.51	0.41
1:O:631:ASP:O	1:n:432:HIS:HE1	2.02	0.41
1:P:628:LYS:HG3	1:P:650:PRO:HD3	2.03	0.41
1:P:657:LYS:NZ	1:P:660:PRO:HD3	2.35	0.41
1:Q:533:PHE:CE1	1:Q:579:VAL:HG21	2.55	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Q:628:LYS:HG3	1:Q:650:PRO:HD3	2.03	0.41
1:R:258:TYR:OH	1:R:378:ILE:O	2.34	0.41
1:R:524:GLN:HB3	1:R:525:PRO:HD3	2.02	0.41
1:T:609:LEU:HB2	1:T:612:MET:HE3	2.02	0.41
1:V:512:LYS:HE2	1:V:543:GLN:CB	2.50	0.41
1:W:317:MET:HE1	1:W:651:PRO:HB3	2.01	0.41
1:W:704:PRO:HD3	1:X:299:PRO:HB2	2.01	0.41
1:X:514:TRP:HD1	1:X:523:MET:HB2	1.85	0.41
1:Y:354:TYR:OH	1:Y:650:PRO:O	2.27	0.41
1:Z:255:LEU:HD22	1:Z:656:ILE:HG12	2.02	0.41
1:Z:628:LYS:HG3	1:Z:650:PRO:HD3	2.03	0.41
1:Z:631:ASP:O	1:3:432:HIS:HE1	2.02	0.41
1:Z:657:LYS:NZ	1:Z:660:PRO:HD3	2.35	0.41
1:a:615:GLN:HE22	1:8:632:THR:HA	1.84	0.41
1:b:354:TYR:OH	1:b:650:PRO:O	2.27	0.41
1:b:514:TRP:HD1	1:b:523:MET:HB2	1.85	0.41
1:d:303:GLN:NE2	1:d:708:PHE:O	2.52	0.41
1:d:487:PHE:CD2	1:d:512:LYS:HD2	2.54	0.41
1:e:609:LEU:HB2	1:e:612:MET:HE3	2.02	0.41
1:f:303:GLN:NE2	1:f:708:PHE:O	2.52	0.41
1:f:354:TYR:OH	1:f:650:PRO:O	2.27	0.41
1:f:524:GLN:HB3	1:f:525:PRO:HD3	2.02	0.41
1:f:615:GLN:HE22	1:h:632:THR:HA	1.84	0.41
1:g:299:PRO:HB2	1:z:704:PRO:HD3	2.01	0.41
1:h:628:LYS:HG3	1:h:650:PRO:HD3	2.03	0.41
1:i:354:TYR:OH	1:i:650:PRO:O	2.27	0.41
1:i:524:GLN:HB3	1:i:525:PRO:HD3	2.02	0.41
1:i:533:PHE:CE1	1:i:579:VAL:HG21	2.55	0.41
1:i:704:PRO:HD3	1:l:299:PRO:HB2	2.01	0.41
1:j:609:LEU:HB2	1:j:612:MET:HE3	2.02	0.41
1:j:628:LYS:HG3	1:j:650:PRO:HD3	2.03	0.41
1:k:651:PRO:HA	1:k:652:PRO:HD3	1.94	0.41
1:l:303:GLN:NE2	1:l:708:PHE:O	2.52	0.41
1:l:637:HIS:O	1:l:639:SER:N	2.51	0.41
1:q:258:TYR:OH	1:q:378:ILE:O	2.34	0.41
1:r:435:THR:HG21	1:s:519:ARG:HH12	1.85	0.41
1:r:524:GLN:HB3	1:r:525:PRO:HD3	2.02	0.41
1:r:566:LEU:HB3	1:r:733:PRO:HD3	2.02	0.41
1:r:570:GLU:OE2	1:r:617:ARG:HA	2.19	0.41
1:r:628:LYS:HG3	1:r:650:PRO:HD3	2.03	0.41
1:t:524:GLN:HB3	1:t:525:PRO:HD3	2.02	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:v:299:PRO:HB2	1:y:704:PRO:HD3	2.01	0.41
1:v:514:TRP:HD1	1:v:523:MET:HB2	1.85	0.41
1:v:533:PHE:CE1	1:v:579:VAL:HG21	2.55	0.41
1:v:609:LEU:HB2	1:v:612:MET:HE3	2.02	0.41
1:v:628:LYS:HG3	1:v:650:PRO:HD3	2.03	0.41
1:w:533:PHE:CE1	1:w:579:VAL:HG21	2.55	0.41
1:x:432:HIS:HE1	1:y:631:ASP:O	2.02	0.41
1:x:628:LYS:HG3	1:x:650:PRO:HD3	2.03	0.41
1:y:718:ILE:HG13	1:y:721:ALA:HB3	2.01	0.41
1:z:609:LEU:HB2	1:z:612:MET:HE3	2.02	0.41
1:2:609:LEU:HB2	1:2:612:MET:HE3	2.03	0.41
1:4:533:PHE:CE1	1:4:579:VAL:HG21	2.55	0.41
1:4:628:LYS:HG3	1:4:650:PRO:HD3	2.03	0.41
1:8:249:THR:OG1	1:8:251:ARG:NH1	2.53	0.41
1:8:609:LEU:HB2	1:8:612:MET:HE3	2.02	0.41
1:8:628:LYS:HG3	1:8:650:PRO:HD3	2.03	0.41
1:B:519:ARG:HH12	1:L:435:THR:HG21	1.85	0.41
1:E:255:LEU:HD22	1:E:656:ILE:HG12	2.02	0.41
1:E:533:PHE:CE1	1:E:579:VAL:HG21	2.55	0.41
1:F:291:ASN:OD1	1:F:625:ILE:N	2.42	0.41
1:F:375:ILE:CD1	1:G:677:PHE:HE1	2.30	0.41
1:H:317:MET:HE1	1:H:651:PRO:HB3	2.01	0.41
1:H:533:PHE:CE1	1:H:579:VAL:HG21	2.55	0.41
1:I:255:LEU:HD22	1:I:656:ILE:HG12	2.02	0.41
1:I:524:GLN:HB3	1:I:525:PRO:HD3	2.02	0.41
1:J:299:PRO:HB2	1:K:704:PRO:HD3	2.01	0.41
1:K:533:PHE:CE1	1:K:579:VAL:HG21	2.55	0.41
1:K:628:LYS:HG3	1:K:650:PRO:HD3	2.03	0.41
1:L:609:LEU:HB2	1:L:612:MET:HE3	2.02	0.41
1:M:609:LEU:HB2	1:M:612:MET:HE3	2.02	0.41
1:O:524:GLN:HB3	1:O:525:PRO:HD3	2.02	0.41
1:O:637:HIS:O	1:O:639:SER:N	2.51	0.41
1:P:255:LEU:HD22	1:P:656:ILE:HG12	2.02	0.41
1:P:609:LEU:HB2	1:P:612:MET:HE3	2.02	0.41
1:Q:566:LEU:HB3	1:Q:733:PRO:HD3	2.02	0.41
1:Q:657:LYS:NZ	1:Q:660:PRO:HD3	2.35	0.41
1:R:677:PHE:CE1	1:V:375:ILE:HD12	2.51	0.41
1:S:566:LEU:HB3	1:S:733:PRO:HD3	2.02	0.41
1:S:570:GLU:OE2	1:S:617:ARG:HA	2.19	0.41
1:T:512:LYS:HE2	1:T:543:GLN:CB	2.50	0.41
1:T:533:PHE:CE1	1:T:579:VAL:HG21	2.55	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:V:615:GLN:HE22	1:e:632:THR:HA	1.84	0.41
1:X:677:PHE:HE1	1:f:375:ILE:CD1	2.31	0.41
1:Z:249:THR:OG1	1:Z:251:ARG:NH1	2.53	0.41
1:Z:609:LEU:HB2	1:Z:612:MET:HE3	2.02	0.41
1:Z:632:THR:HA	1:3:615:GLN:HE22	1.84	0.41
1:c:609:LEU:HB2	1:c:612:MET:HE3	2.02	0.41
1:d:533:PHE:CE1	1:d:579:VAL:HG21	2.55	0.41
1:f:435:THR:HG21	1:h:519:ARG:HH12	1.85	0.41
1:f:514:TRP:HD1	1:f:523:MET:HB2	1.85	0.41
1:g:549:SER:OG	1:h:449:TRP:NE1	2.30	0.41
1:h:299:PRO:HB2	1:k:704:PRO:HD3	2.01	0.41
1:i:303:GLN:NE2	1:i:708:PHE:O	2.52	0.41
1:i:566:LEU:HB3	1:i:733:PRO:HD3	2.02	0.41
1:j:435:THR:HG21	1:k:519:ARG:HH12	1.85	0.41
1:m:308:ASN:ND2	1:r:308:ASN:OD1	2.54	0.41
1:m:432:HIS:HE1	1:n:631:ASP:O	2.03	0.41
1:m:512:LYS:HE2	1:m:543:GLN:CB	2.50	0.41
1:m:566:LEU:HB3	1:m:733:PRO:HD3	2.02	0.41
1:n:487:PHE:CD2	1:n:512:LYS:HD2	2.54	0.41
1:n:524:GLN:HB3	1:n:525:PRO:HD3	2.02	0.41
1:o:299:PRO:HB2	1:6:704:PRO:HD3	2.01	0.41
1:o:664:ASN:HA	1:o:665:PRO:HD3	1.95	0.41
1:q:524:GLN:HB3	1:q:525:PRO:HD3	2.02	0.41
1:t:677:PHE:HE1	1:y:375:ILE:CD1	2.30	0.41
1:u:255:LEU:HD22	1:u:656:ILE:HG12	2.02	0.41
1:x:533:PHE:CE1	1:x:579:VAL:HG21	2.55	0.41
1:x:566:LEU:HB3	1:x:733:PRO:HD3	2.02	0.41
1:y:354:TYR:OH	1:y:650:PRO:O	2.27	0.41
1:z:435:THR:HG21	1:1:519:ARG:HH12	1.85	0.41
1:z:588:PRO:HD3	1:1:512:LYS:HB3	2.03	0.41
1:z:677:PHE:HE1	1:4:375:ILE:CD1	2.30	0.41
1:1:533:PHE:CE1	1:1:579:VAL:HG21	2.55	0.41
1:5:533:PHE:CE1	1:5:579:VAL:HG21	2.55	0.41
1:5:657:LYS:NZ	1:5:660:PRO:HD3	2.35	0.41
1:7:299:PRO:HB2	1:8:704:PRO:HD3	2.02	0.41
1:7:533:PHE:CE1	1:7:579:VAL:HG21	2.55	0.41
1:8:657:LYS:NZ	1:8:660:PRO:HD3	2.35	0.41
1:F:512:LYS:HB3	1:Q:588:PRO:HD3	2.03	0.41
1:G:291:ASN:OD1	1:G:625:ILE:N	2.42	0.41
1:H:628:LYS:HG3	1:H:650:PRO:HD3	2.02	0.41
1:I:533:PHE:CE1	1:I:579:VAL:HG21	2.55	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:375:ILE:CD1	1:L:677:PHE:HE1	2.31	0.41
1:K:512:LYS:HB3	1:8:588:PRO:HD3	2.03	0.41
1:K:677:PHE:HE1	1:7:375:ILE:CD1	2.31	0.41
1:M:375:ILE:HD12	1:N:677:PHE:CE1	2.51	0.41
1:M:519:ARG:HH12	1:b:435:THR:HG21	1.85	0.41
1:M:631:ASP:O	1:b:432:HIS:HE1	2.02	0.41
1:N:303:GLN:NE2	1:N:708:PHE:O	2.52	0.41
1:N:512:LYS:HE2	1:N:543:GLN:CB	2.50	0.41
1:N:566:LEU:HB3	1:N:733:PRO:HD3	2.02	0.41
1:O:628:LYS:HG3	1:O:650:PRO:HD3	2.03	0.41
1:Q:512:LYS:HE2	1:Q:543:GLN:CB	2.50	0.41
1:R:628:LYS:HG3	1:R:650:PRO:HD3	2.03	0.41
1:S:524:GLN:HB3	1:S:525:PRO:HD3	2.02	0.41
1:S:609:LEU:HB2	1:S:612:MET:HE3	2.03	0.41
1:S:628:LYS:HG3	1:S:650:PRO:HD3	2.03	0.41
1:T:566:LEU:HB3	1:T:733:PRO:HD3	2.02	0.41
1:U:255:LEU:HD22	1:U:656:ILE:HG12	2.02	0.41
1:W:588:PRO:HD3	1:Y:512:LYS:HB3	2.03	0.41
1:W:609:LEU:HB2	1:W:612:MET:HE3	2.02	0.41
1:Y:375:ILE:CD1	1:4:677:PHE:HE1	2.31	0.41
1:Y:514:TRP:HD1	1:Y:523:MET:HB2	1.85	0.41
1:Z:435:THR:HG21	1:4:519:ARG:HH12	1.85	0.41
1:a:432:HIS:HE1	1:8:631:ASP:O	2.02	0.41
1:b:303:GLN:NE2	1:b:708:PHE:O	2.52	0.41
1:c:632:THR:HA	1:p:615:GLN:HE22	1.84	0.41
1:d:609:LEU:HB2	1:d:612:MET:HE3	2.02	0.41
1:f:487:PHE:CD2	1:f:512:LYS:HD2	2.54	0.41
1:g:255:LEU:HD22	1:g:656:ILE:HG12	2.02	0.41
1:h:609:LEU:HB2	1:h:612:MET:HE3	2.02	0.41
1:i:615:GLN:HE22	1:j:632:THR:HA	1.84	0.41
1:j:255:LEU:HD22	1:j:656:ILE:HG12	2.02	0.41
1:j:704:PRO:HD3	1:w:299:PRO:HB2	2.01	0.41
1:m:435:THR:HG21	1:n:519:ARG:HH12	1.84	0.41
1:m:533:PHE:CE1	1:m:579:VAL:HG21	2.55	0.41
1:m:609:LEU:HB2	1:m:612:MET:HE3	2.03	0.41
1:p:533:PHE:CE1	1:p:579:VAL:HG21	2.55	0.41
1:s:255:LEU:HD22	1:s:656:ILE:HG12	2.02	0.41
1:s:354:TYR:OH	1:s:650:PRO:O	2.27	0.41
1:t:255:LEU:HD22	1:t:656:ILE:HG12	2.02	0.41
1:u:533:PHE:CE1	1:u:579:VAL:HG21	2.55	0.41
1:x:588:PRO:HD3	1:y:512:LYS:HB3	2.03	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:y:628:LYS:HG3	1:y:650:PRO:HD3	2.03	0.41
1:z:549:SER:OG	1:2:449:TRP:NE1	2.30	0.41
1:1:486:PHE:CD2	1:1:584:TRP:HB2	2.54	0.41
1:5:609:LEU:HB2	1:5:612:MET:HE3	2.02	0.41
1:5:628:LYS:HG3	1:5:650:PRO:HD3	2.03	0.41
1:7:512:LYS:HE2	1:7:543:GLN:CB	2.50	0.41
1:7:514:TRP:HD1	1:7:523:MET:HB2	1.85	0.41
1:B:464:LEU:HG	1:J:499:ILE:HD11	2.03	0.41
1:C:549:SER:OG	1:M:449:TRP:NE1	2.30	0.41
1:D:408:MET:CE	1:E:234:TRP:HE3	2.34	0.41
1:H:657:LYS:NZ	1:H:660:PRO:HD3	2.35	0.41
1:I:249:THR:OG1	1:I:251:ARG:NH1	2.53	0.41
1:J:533:PHE:CE1	1:J:579:VAL:HG21	2.55	0.41
1:K:519:ARG:HH12	1:8:435:THR:HG21	1.85	0.41
1:M:514:TRP:HD1	1:M:523:MET:HB2	1.85	0.41
1:O:386:LEU:N	1:n:433:ASN:O	2.45	0.41
1:P:249:THR:OG1	1:P:251:ARG:NH1	2.52	0.41
1:P:512:LYS:HE2	1:P:543:GLN:CB	2.50	0.41
1:Q:299:PRO:HB2	1:R:704:PRO:HD3	2.01	0.41
1:R:514:TRP:HD1	1:R:523:MET:HB2	1.85	0.41
1:U:354:TYR:OH	1:U:650:PRO:O	2.27	0.41
1:V:433:ASN:O	1:e:386:LEU:N	2.46	0.41
1:V:519:ARG:HH12	1:X:435:THR:HG21	1.85	0.41
1:V:533:PHE:CE1	1:V:579:VAL:HG21	2.55	0.41
1:V:657:LYS:NZ	1:V:660:PRO:HD3	2.35	0.41
1:W:524:GLN:HB3	1:W:525:PRO:HD3	2.02	0.41
1:Y:512:LYS:HE2	1:Y:543:GLN:CB	2.50	0.41
1:Y:533:PHE:CE1	1:Y:579:VAL:HG21	2.55	0.41
1:b:487:PHE:CD2	1:b:512:LYS:HD2	2.54	0.41
1:d:291:ASN:OD1	1:d:625:ILE:N	2.42	0.41
1:d:524:GLN:HB3	1:d:525:PRO:HD3	2.02	0.41
1:e:704:PRO:HD3	1:f:299:PRO:HB2	2.02	0.41
1:f:432:HIS:HE1	1:h:631:ASP:O	2.02	0.41
1:i:512:LYS:HE2	1:i:543:GLN:CB	2.50	0.41
1:j:249:THR:OG1	1:j:251:ARG:NH1	2.53	0.41
1:k:249:THR:OG1	1:k:251:ARG:NH1	2.53	0.41
1:n:533:PHE:CE1	1:n:579:VAL:HG21	2.55	0.41
1:n:609:LEU:HB2	1:n:612:MET:HE3	2.02	0.41
1:p:657:LYS:NZ	1:p:660:PRO:HD3	2.35	0.41
1:q:512:LYS:HB3	1:s:588:PRO:HD3	2.03	0.41
1:q:628:LYS:HG3	1:q:650:PRO:HD3	2.03	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:q:704:PRO:HD3	1:x:299:PRO:HB2	2.01	0.41
1:u:249:THR:OG1	1:u:251:ARG:NH1	2.53	0.41
1:x:512:LYS:HE2	1:x:543:GLN:CB	2.50	0.41
1:x:657:LYS:NZ	1:x:660:PRO:HD3	2.35	0.41
1:y:487:PHE:CD2	1:y:512:LYS:HD2	2.54	0.41
1:y:514:TRP:HD1	1:y:523:MET:HB2	1.85	0.41
1:1:514:TRP:HD1	1:1:523:MET:HB2	1.85	0.41
1:2:234:TRP:HE3	1:3:408:MET:CE	2.34	0.41
1:3:628:LYS:HG3	1:3:650:PRO:HD3	2.03	0.41
1:5:317:MET:HE1	1:5:651:PRO:HB3	2.01	0.41
1:5:664:ASN:HA	1:5:665:PRO:HD3	1.95	0.41
1:B:255:LEU:HD22	1:B:656:ILE:HG12	2.02	0.41
1:B:408:MET:CE	1:C:234:TRP:HE3	2.34	0.41
1:D:249:THR:OG1	1:D:251:ARG:NH1	2.53	0.41
1:F:514:TRP:HD1	1:F:523:MET:HB2	1.85	0.41
1:F:628:LYS:HG3	1:F:650:PRO:HD3	2.03	0.41
1:G:255:LEU:HD22	1:G:656:ILE:HG12	2.02	0.41
1:G:432:HIS:HE1	1:I:631:ASP:O	2.03	0.41
1:H:249:THR:OG1	1:H:251:ARG:NH1	2.53	0.41
1:H:609:LEU:HB2	1:H:612:MET:HE3	2.03	0.41
1:H:664:ASN:HA	1:H:665:PRO:HD3	1.95	0.41
1:L:657:LYS:NZ	1:L:660:PRO:HD3	2.35	0.41
1:O:615:GLN:HE22	1:m:632:THR:HA	1.85	0.41
1:Q:589:THR:OG1	1:Q:599:THR:OG1	2.30	0.41
1:R:512:LYS:HB3	1:U:588:PRO:HD3	2.03	0.41
1:R:609:LEU:HB2	1:R:612:MET:HE3	2.02	0.41
1:V:408:MET:CE	1:W:234:TRP:HE3	2.34	0.41
1:V:512:LYS:HB3	1:X:588:PRO:HD3	2.03	0.41
1:V:628:LYS:HG3	1:V:650:PRO:HD3	2.03	0.41
1:W:637:HIS:O	1:W:639:SER:N	2.51	0.41
1:Y:609:LEU:HB2	1:Y:612:MET:HE3	2.02	0.41
1:a:533:PHE:CE1	1:a:579:VAL:HG21	2.55	0.41
1:a:628:LYS:HG3	1:a:650:PRO:HD3	2.03	0.41
1:b:299:PRO:HB2	1:c:704:PRO:HD3	2.02	0.41
1:b:375:ILE:CD1	1:o:677:PHE:HE1	2.31	0.41
1:d:704:PRO:HD3	1:n:299:PRO:HB2	2.02	0.41
1:h:514:TRP:HD1	1:h:523:MET:HB2	1.85	0.41
1:j:512:LYS:HE2	1:j:543:GLN:CB	2.50	0.41
1:k:657:LYS:NZ	1:k:660:PRO:HD3	2.35	0.41
1:l:628:LYS:HG3	1:l:650:PRO:HD3	2.03	0.41
1:o:651:PRO:HA	1:o:652:PRO:HD3	1.94	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:p:609:LEU:HB2	1:p:612:MET:HE3	2.02	0.41
1:p:628:LYS:HG3	1:p:650:PRO:HD3	2.02	0.41
1:q:514:TRP:HD1	1:q:523:MET:HB2	1.85	0.41
1:q:609:LEU:HB2	1:q:612:MET:HE3	2.02	0.41
1:t:704:PRO:HD3	1:5:299:PRO:HB2	2.02	0.41
1:u:609:LEU:HB2	1:u:612:MET:HE3	2.02	0.41
1:w:514:TRP:HD1	1:w:523:MET:HB2	1.85	0.41
1:1:249:THR:OG1	1:1:251:ARG:NH1	2.52	0.41
1:1:255:LEU:HD22	1:1:656:ILE:HG12	2.02	0.41
1:1:464:LEU:HG	1:2:499:ILE:HD11	2.03	0.41
1:2:533:PHE:CE1	1:2:579:VAL:HG21	2.55	0.41
1:3:255:LEU:HD22	1:3:656:ILE:HG12	2.02	0.41
1:3:514:TRP:HD1	1:3:523:MET:HB2	1.85	0.41
1:4:255:LEU:HD22	1:4:656:ILE:HG12	2.02	0.41
1:5:249:THR:OG1	1:5:251:ARG:NH1	2.52	0.41
1:5:566:LEU:HB3	1:5:733:PRO:HD3	2.02	0.41
1:6:524:GLN:HB3	1:6:525:PRO:HD3	2.02	0.41
1:6:609:LEU:HB2	1:6:612:MET:HE3	2.03	0.41
1:6:637:HIS:O	1:6:639:SER:N	2.51	0.41
1:A:512:LYS:HB3	1:I:588:PRO:HD3	2.03	0.41
1:A:704:PRO:HD3	1:F:299:PRO:HB2	2.01	0.41
1:B:514:TRP:HD1	1:B:523:MET:HB2	1.85	0.41
1:D:628:LYS:HG3	1:D:650:PRO:HD3	2.03	0.41
1:D:637:HIS:O	1:D:639:SER:N	2.51	0.41
1:D:657:LYS:NZ	1:D:660:PRO:HD3	2.35	0.41
1:E:249:THR:OG1	1:E:251:ARG:NH1	2.53	0.41
1:E:299:PRO:HB2	1:P:704:PRO:HD3	2.01	0.41
1:E:514:TRP:HD1	1:E:523:MET:HB2	1.85	0.41
1:F:487:PHE:CD2	1:F:512:LYS:HD2	2.54	0.41
1:F:512:LYS:HE2	1:F:543:GLN:CB	2.50	0.41
1:H:255:LEU:HD22	1:H:656:ILE:HG12	2.02	0.41
1:H:487:PHE:CD2	1:H:512:LYS:HD2	2.54	0.41
1:H:566:LEU:HB3	1:H:733:PRO:HD3	2.02	0.41
1:I:609:LEU:HB2	1:I:612:MET:HE3	2.02	0.41
1:M:524:GLN:HB3	1:M:525:PRO:HD3	2.02	0.41
1:N:299:PRO:HB2	1:O:704:PRO:HD3	2.02	0.41
1:N:507:VAL:CG1	1:N:543:GLN:HE22	2.34	0.41
1:O:533:PHE:CE1	1:O:579:VAL:HG21	2.55	0.41
1:O:600:ARG:HH12	1:m:513:GLN:CD	2.29	0.41
1:S:533:PHE:CE1	1:S:579:VAL:HG21	2.55	0.41
1:V:600:ARG:HH12	1:e:513:GLN:CD	2.29	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:V:609:LEU:HB2	1:V:612:MET:HE3	2.02	0.41
1:W:664:ASN:HA	1:W:665:PRO:HD3	1.95	0.41
1:X:512:LYS:HB3	1:e:588:PRO:HD3	2.03	0.41
1:b:566:LEU:HB3	1:b:733:PRO:HD3	2.02	0.41
1:c:408:MET:CE	1:s:234:TRP:HE3	2.34	0.41
1:c:588:PRO:HD3	1:o:512:LYS:HB3	2.03	0.41
1:f:566:LEU:HB3	1:f:733:PRO:HD3	2.02	0.41
1:i:299:PRO:HB2	1:l:704:PRO:HD3	2.02	0.41
1:j:258:TYR:OH	1:j:378:ILE:O	2.34	0.41
1:l:533:PHE:CE1	1:l:579:VAL:HG21	2.55	0.41
1:m:615:GLN:HE22	1:n:632:THR:HA	1.85	0.41
1:o:637:HIS:O	1:o:639:SER:N	2.51	0.41
1:p:234:TRP:HE3	1:q:408:MET:CE	2.34	0.41
1:r:533:PHE:CE1	1:r:579:VAL:HG21	2.55	0.41
1:t:234:TRP:HE3	1:6:408:MET:CE	2.34	0.41
1:u:487:PHE:CD2	1:u:512:LYS:HD2	2.54	0.41
1:u:588:PRO:HD3	1:v:512:LYS:HB3	2.03	0.41
1:v:346:VAL:O	1:v:409:LEU:N	2.52	0.41
1:v:524:GLN:HB3	1:v:525:PRO:HD3	2.02	0.41
1:z:255:LEU:HD22	1:z:656:ILE:HG12	2.02	0.41
1:z:545:THR:OG1	1:z:568:THR:O	2.35	0.41
1:z:657:LYS:NZ	1:z:660:PRO:HD3	2.35	0.41
1:2:524:GLN:HB3	1:2:525:PRO:HD3	2.02	0.41
1:2:566:LEU:HB3	1:2:733:PRO:HD3	2.02	0.41
1:5:255:LEU:HD22	1:5:656:ILE:HG12	2.02	0.41
1:6:588:PRO:HD3	1:7:512:LYS:HB3	2.03	0.41
1:7:609:LEU:HB2	1:7:612:MET:HE3	2.02	0.41
1:8:664:ASN:HA	1:8:665:PRO:HD3	1.95	0.41
1:A:255:LEU:HD22	1:A:656:ILE:HG12	2.02	0.41
1:A:303:GLN:NE2	1:A:708:PHE:O	2.52	0.41
1:A:375:ILE:CD1	1:E:677:PHE:HE1	2.30	0.41
1:A:449:TRP:HE1	1:G:549:SER:HG	1.62	0.41
1:A:524:GLN:HB3	1:A:525:PRO:HD3	2.02	0.41
1:B:249:THR:OG1	1:B:251:ARG:NH1	2.52	0.41
1:B:308:ASN:ND2	1:I:308:ASN:OD1	2.54	0.41
1:B:347:GLN:HA	1:B:407:ASP:O	2.21	0.41
1:C:299:PRO:HB2	1:L:704:PRO:HD3	2.02	0.41
1:D:588:PRO:HD3	1:N:512:LYS:HB3	2.03	0.41
1:E:347:GLN:HA	1:E:407:ASP:O	2.21	0.41
1:E:536:GLU:OE1	1:E:539:ARG:NH2	2.54	0.41
1:F:507:VAL:CG1	1:F:543:GLN:HE22	2.34	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:487:PHE:CD2	1:I:512:LYS:HD2	2.54	0.41
1:J:427:HIS:CD2	1:J:619:ILE:HG12	2.56	0.41
1:J:524:GLN:HB3	1:J:525:PRO:HD3	2.02	0.41
1:K:255:LEU:HD22	1:K:656:ILE:HG12	2.02	0.41
1:K:513:GLN:CD	1:8:600:ARG:HH12	2.29	0.41
1:L:255:LEU:HD22	1:L:656:ILE:HG12	2.02	0.41
1:M:354:TYR:OH	1:M:650:PRO:O	2.27	0.41
1:M:513:GLN:CD	1:b:600:ARG:HH12	2.29	0.41
1:N:317:MET:HE1	1:N:651:PRO:HB3	2.01	0.41
1:N:588:PRO:HD3	1:P:512:LYS:HB3	2.03	0.41
1:O:514:TRP:HD1	1:O:523:MET:HB2	1.85	0.41
1:R:408:MET:CE	1:V:234:TRP:HE3	2.34	0.41
1:R:533:PHE:CE1	1:R:579:VAL:HG21	2.55	0.41
1:S:464:LEU:HG	1:U:499:ILE:HD11	2.03	0.41
1:T:487:PHE:CD2	1:T:512:LYS:HD2	2.54	0.41
1:U:536:GLU:OE1	1:U:539:ARG:NH2	2.54	0.41
1:V:513:GLN:CD	1:X:600:ARG:HH12	2.29	0.41
1:V:536:GLU:OE1	1:V:539:ARG:NH2	2.54	0.41
1:X:249:THR:OG1	1:X:251:ARG:NH1	2.53	0.41
1:X:303:GLN:NE2	1:X:708:PHE:O	2.52	0.41
1:X:408:MET:CE	1:f:234:TRP:HE3	2.34	0.41
1:X:507:VAL:CG1	1:X:543:GLN:HE22	2.34	0.41
1:X:664:ASN:HA	1:X:665:PRO:HD3	1.95	0.41
1:Y:487:PHE:CD2	1:Y:512:LYS:HD2	2.54	0.41
1:Y:657:LYS:NZ	1:Y:660:PRO:HD3	2.35	0.41
1:Z:408:MET:CE	1:a:234:TRP:HE3	2.34	0.41
1:Z:588:PRO:HD3	1:4:512:LYS:HB3	2.03	0.41
1:a:255:LEU:HD22	1:a:656:ILE:HG12	2.02	0.41
1:a:347:GLN:HA	1:a:407:ASP:O	2.21	0.41
1:a:514:TRP:HD1	1:a:523:MET:HB2	1.85	0.41
1:b:234:TRP:HE3	1:o:408:MET:CE	2.34	0.41
1:b:255:LEU:HD22	1:b:656:ILE:HG12	2.02	0.41
1:c:427:HIS:CD2	1:c:619:ILE:HG12	2.56	0.41
1:c:513:GLN:CD	1:p:600:ARG:HH12	2.29	0.41
1:d:299:PRO:HB2	1:n:704:PRO:HD3	2.02	0.41
1:d:588:PRO:HD3	1:l:512:LYS:HB3	2.03	0.41
1:e:346:VAL:O	1:e:409:LEU:N	2.52	0.41
1:e:427:HIS:CD2	1:e:619:ILE:HG12	2.56	0.41
1:f:600:ARG:HH12	1:h:513:GLN:CD	2.29	0.41
1:g:234:TRP:HE3	1:1:408:MET:CE	2.34	0.41
1:g:536:GLU:OE1	1:g:539:ARG:NH2	2.54	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:h:291:ASN:OD1	1:h:625:ILE:N	2.42	0.41
1:h:375:ILE:HD12	1:i:677:PHE:CE1	2.51	0.41
1:h:524:GLN:HB3	1:h:525:PRO:HD3	2.02	0.41
1:i:317:MET:HE1	1:i:651:PRO:HB3	2.01	0.41
1:i:507:VAL:CG1	1:i:543:GLN:HE22	2.34	0.41
1:i:512:LYS:HB3	1:k:588:PRO:HD3	2.03	0.41
1:k:354:TYR:OH	1:k:650:PRO:O	2.27	0.41
1:k:408:MET:CE	1:w:234:TRP:HE3	2.34	0.41
1:k:628:LYS:HG3	1:k:650:PRO:HD3	2.03	0.41
1:k:637:HIS:O	1:k:639:SER:N	2.51	0.41
1:l:346:VAL:O	1:l:409:LEU:N	2.51	0.41
1:m:308:ASN:OD1	1:r:308:ASN:ND2	2.53	0.41
1:m:628:LYS:HG3	1:m:650:PRO:HD3	2.03	0.41
1:o:303:GLN:NE2	1:o:708:PHE:O	2.52	0.41
1:o:427:HIS:CD2	1:o:619:ILE:HG12	2.56	0.41
1:o:507:VAL:CG1	1:o:543:GLN:HE22	2.34	0.41
1:o:588:PRO:HD3	1:p:512:LYS:HB3	2.03	0.41
1:p:408:MET:CE	1:6:234:TRP:HE3	2.34	0.41
1:q:299:PRO:HB2	1:x:704:PRO:HD3	2.02	0.41
1:q:533:PHE:CE1	1:q:579:VAL:HG21	2.55	0.41
1:s:487:PHE:CD2	1:s:512:LYS:HD2	2.54	0.41
1:s:536:GLU:OE1	1:s:539:ARG:NH2	2.54	0.41
1:t:408:MET:CE	1:y:234:TRP:HE3	2.34	0.41
1:u:600:ARG:HH12	1:v:513:GLN:CD	2.29	0.41
1:v:303:GLN:NE2	1:v:708:PHE:O	2.52	0.41
1:v:375:ILE:CD1	1:w:677:PHE:HE1	2.30	0.41
1:v:704:PRO:HD3	1:y:299:PRO:HB2	2.02	0.41
1:w:249:THR:OG1	1:w:251:ARG:NH1	2.53	0.41
1:w:536:GLU:OE1	1:w:539:ARG:NH2	2.54	0.41
1:x:303:GLN:NE2	1:x:708:PHE:O	2.52	0.41
1:y:512:LYS:HE2	1:y:543:GLN:CB	2.50	0.41
1:y:545:THR:OG1	1:y:568:THR:O	2.35	0.41
1:y:609:LEU:HB2	1:y:612:MET:HE3	2.02	0.41
1:z:536:GLU:OE1	1:z:539:ARG:NH2	2.54	0.41
1:1:347:GLN:HA	1:1:407:ASP:O	2.21	0.41
1:1:588:PRO:HD3	1:2:512:LYS:HB3	2.03	0.41
1:2:299:PRO:HB2	1:4:704:PRO:HD3	2.02	0.41
1:2:427:HIS:CD2	1:2:619:ILE:HG12	2.56	0.41
1:3:347:GLN:HA	1:3:407:ASP:O	2.21	0.41
1:3:533:PHE:CE1	1:3:579:VAL:HG21	2.55	0.41
1:5:487:PHE:CD2	1:5:512:LYS:HD2	2.54	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:7:487:PHE:CD2	1:7:512:LYS:HD2	2.54	0.41
1:7:657:LYS:NZ	1:7:660:PRO:HD3	2.35	0.41
1:A:346:VAL:O	1:A:409:LEU:N	2.52	0.41
1:A:588:PRO:HD3	1:G:512:LYS:HB3	2.03	0.41
1:C:536:GLU:OE1	1:C:539:ARG:NH2	2.54	0.41
1:E:427:HIS:CD2	1:E:619:ILE:HG12	2.56	0.41
1:E:499:ILE:HD11	1:F:464:LEU:HG	2.03	0.41
1:E:600:ARG:HH12	1:Q:513:GLN:CD	2.29	0.41
1:E:609:LEU:HB2	1:E:612:MET:HE3	2.02	0.41
1:F:566:LEU:HB3	1:F:733:PRO:HD3	2.02	0.41
1:F:609:LEU:HB2	1:F:612:MET:HE3	2.02	0.41
1:G:609:LEU:HB2	1:G:612:MET:HE3	2.02	0.41
1:H:519:ARG:HH12	1:Y:435:THR:HG21	1.85	0.41
1:J:566:LEU:HB3	1:J:733:PRO:HD3	2.02	0.41
1:L:234:TRP:HE3	1:b:408:MET:CE	2.34	0.41
1:L:371:PHE:HA	1:L:372:PRO:HD3	1.99	0.41
1:L:536:GLU:OE1	1:L:539:ARG:NH2	2.54	0.41
1:L:545:THR:OG1	1:L:568:THR:O	2.35	0.41
1:O:638:PRO:HD2	2:O:801:D5M:C2'	2.51	0.41
1:P:347:GLN:HA	1:P:407:ASP:O	2.21	0.41
1:Q:303:GLN:NE2	1:Q:708:PHE:O	2.52	0.41
1:Q:609:LEU:HB2	1:Q:612:MET:HE3	2.02	0.41
1:T:512:LYS:HB3	1:l:588:PRO:HD3	2.03	0.41
1:T:600:ARG:HH12	1:d:513:GLN:CD	2.29	0.41
1:T:628:LYS:HG3	1:T:650:PRO:HD3	2.03	0.41
1:U:234:TRP:HE3	1:e:408:MET:CE	2.34	0.41
1:V:303:GLN:NE2	1:V:708:PHE:O	2.52	0.41
1:X:637:HIS:O	1:X:639:SER:N	2.51	0.41
1:Z:354:TYR:OH	1:Z:650:PRO:O	2.27	0.41
1:Z:600:ARG:HH12	1:4:513:GLN:CD	2.29	0.41
1:i:464:LEU:HG	1:j:499:ILE:HD11	2.03	0.41
1:j:299:PRO:HB2	1:w:704:PRO:HD3	2.01	0.41
1:j:347:GLN:HA	1:j:407:ASP:O	2.21	0.41
1:j:536:GLU:OE1	1:j:539:ARG:NH2	2.54	0.41
1:j:600:ARG:HH12	1:k:513:GLN:CD	2.29	0.41
1:l:514:TRP:HD1	1:l:523:MET:HB2	1.85	0.41
1:m:347:GLN:HA	1:m:407:ASP:O	2.21	0.41
1:m:487:PHE:CD2	1:m:512:LYS:HD2	2.54	0.41
1:o:249:THR:OG1	1:o:251:ARG:NH1	2.52	0.41
1:o:600:ARG:HH12	1:p:513:GLN:CD	2.29	0.41
1:p:303:GLN:NE2	1:p:708:PHE:O	2.52	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:p:536:GLU:OE1	1:p:539:ARG:NH2	2.54	0.41
1:q:346:VAL:O	1:q:409:LEU:N	2.52	0.41
1:r:464:LEU:HG	1:s:499:ILE:HD11	2.03	0.41
1:t:512:LYS:HB3	1:v:588:PRO:HD3	2.03	0.41
1:w:347:GLN:HA	1:w:407:ASP:O	2.21	0.41
1:w:433:ASN:O	1:x:386:LEU:N	2.46	0.41
1:x:427:HIS:CD2	1:x:619:ILE:HG12	2.56	0.41
1:y:566:LEU:HB3	1:y:733:PRO:HD3	2.02	0.41
1:5:346:VAL:O	1:5:409:LEU:N	2.51	0.41
1:5:536:GLU:OE1	1:5:539:ARG:NH2	2.54	0.41
1:6:427:HIS:CD2	1:6:619:ILE:HG12	2.56	0.41
1:B:487:PHE:CD2	1:B:512:LYS:HD2	2.54	0.40
1:B:513:GLN:CD	1:L:600:ARG:HH12	2.29	0.40
1:B:524:GLN:HB3	1:B:525:PRO:HD3	2.02	0.40
1:C:514:TRP:HD1	1:C:523:MET:HB2	1.85	0.40
1:D:464:LEU:HG	1:N:499:ILE:HD11	2.03	0.40
1:F:234:TRP:HE3	1:G:408:MET:CE	2.34	0.40
1:G:726:GLY:HA2	1:W:263:TYR:O	2.21	0.40
1:H:536:GLU:OE1	1:H:539:ARG:NH2	2.54	0.40
1:J:234:TRP:HE3	1:a:408:MET:CE	2.35	0.40
1:K:609:LEU:HB2	1:K:612:MET:HE3	2.02	0.40
1:M:291:ASN:OD1	1:M:625:ILE:N	2.42	0.40
1:N:464:LEU:HG	1:P:499:ILE:HD11	2.03	0.40
1:O:427:HIS:CD2	1:O:619:ILE:HG12	2.56	0.40
1:O:512:LYS:HB3	1:n:588:PRO:HD3	2.03	0.40
1:O:588:PRO:HD3	1:m:512:LYS:HB3	2.03	0.40
1:P:533:PHE:CE1	1:P:579:VAL:HG21	2.55	0.40
1:P:536:GLU:OE1	1:P:539:ARG:NH2	2.54	0.40
1:P:566:LEU:HB3	1:P:733:PRO:HD3	2.02	0.40
1:Q:427:HIS:CD2	1:Q:619:ILE:HG12	2.56	0.40
1:Q:704:PRO:HD3	1:R:299:PRO:HB2	2.02	0.40
1:R:346:VAL:O	1:R:409:LEU:N	2.52	0.40
1:X:427:HIS:CD2	1:X:619:ILE:HG12	2.56	0.40
1:Y:524:GLN:HB3	1:Y:525:PRO:HD3	2.02	0.40
1:Y:628:LYS:HG3	1:Y:650:PRO:HD3	2.02	0.40
1:Z:347:GLN:HA	1:Z:407:ASP:O	2.21	0.40
1:Z:536:GLU:OE1	1:Z:539:ARG:NH2	2.54	0.40
1:a:536:GLU:OE1	1:a:539:ARG:NH2	2.54	0.40
1:b:346:VAL:O	1:b:409:LEU:N	2.52	0.40
1:b:533:PHE:CE1	1:b:579:VAL:HG21	2.55	0.40
1:c:536:GLU:OE1	1:c:539:ARG:NH2	2.54	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:d:255:LEU:HD22	1:d:656:ILE:HG12	2.02	0.40
1:f:255:LEU:HD22	1:f:656:ILE:HG12	2.02	0.40
1:g:514:TRP:HD1	1:g:523:MET:HB2	1.85	0.40
1:h:354:TYR:OH	1:h:650:PRO:O	2.27	0.40
1:i:347:GLN:HA	1:i:407:ASP:O	2.21	0.40
1:i:499:ILE:HD11	1:k:464:LEU:HG	2.03	0.40
1:i:588:PRO:HD3	1:j:512:LYS:HB3	2.04	0.40
1:i:609:LEU:HB2	1:i:612:MET:HE3	2.02	0.40
1:j:533:PHE:CE1	1:j:579:VAL:HG21	2.55	0.40
1:j:566:LEU:HB3	1:j:733:PRO:HD3	2.02	0.40
1:l:255:LEU:HD22	1:l:656:ILE:HG12	2.02	0.40
1:l:427:HIS:CD2	1:l:619:ILE:HG12	2.56	0.40
1:l:609:LEU:HB2	1:l:612:MET:HE3	2.02	0.40
1:l:638:PRO:HD2	2:l:801:D5M:C2'	2.51	0.40
1:m:726:GLY:HA2	1:s:263:TYR:O	2.21	0.40
1:n:255:LEU:HD22	1:n:656:ILE:HG12	2.02	0.40
1:o:347:GLN:HA	1:o:407:ASP:O	2.21	0.40
1:r:427:HIS:CD2	1:r:619:ILE:HG12	2.56	0.40
1:s:258:TYR:OH	1:s:378:ILE:O	2.34	0.40
1:s:533:PHE:CE1	1:s:579:VAL:HG21	2.55	0.40
1:t:588:PRO:HD3	1:u:512:LYS:HB3	2.03	0.40
1:v:255:LEU:HD22	1:v:656:ILE:HG12	2.02	0.40
1:w:427:HIS:CD2	1:w:619:ILE:HG12	2.56	0.40
1:w:499:ILE:HD11	1:y:464:LEU:HG	2.04	0.40
1:y:507:VAL:CG1	1:y:543:GLN:HE22	2.34	0.40
1:y:536:GLU:OE1	1:y:539:ARG:NH2	2.54	0.40
1:1:524:GLN:HB3	1:1:525:PRO:HD3	2.02	0.40
1:2:347:GLN:HA	1:2:407:ASP:O	2.21	0.40
1:4:609:LEU:HB2	1:4:612:MET:HE3	2.02	0.40
1:5:519:ARG:HH12	1:7:435:THR:HG21	1.85	0.40
1:6:664:ASN:HA	1:6:665:PRO:HD3	1.95	0.40
1:8:347:GLN:HA	1:8:407:ASP:O	2.21	0.40
1:B:588:PRO:HD3	1:J:512:LYS:HB3	2.03	0.40
1:D:499:ILE:HD11	1:P:464:LEU:HG	2.03	0.40
1:D:513:GLN:CD	1:P:600:ARG:HH12	2.29	0.40
1:D:600:ARG:HH12	1:N:513:GLN:CD	2.29	0.40
1:E:487:PHE:CD2	1:E:512:LYS:HD2	2.54	0.40
1:E:704:PRO:HD3	1:P:299:PRO:HB2	2.02	0.40
1:F:255:LEU:HD22	1:F:656:ILE:HG12	2.02	0.40
1:F:536:GLU:OE1	1:F:539:ARG:NH2	2.54	0.40
1:G:588:PRO:HD3	1:I:512:LYS:HB3	2.03	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:677:PHE:CE1	1:Z:375:ILE:HD12	2.51	0.40
1:I:536:GLU:OE1	1:I:539:ARG:NH2	2.54	0.40
1:J:726:GLY:HA2	1:a:263:TYR:O	2.21	0.40
1:K:536:GLU:OE1	1:K:539:ARG:NH2	2.54	0.40
1:L:427:HIS:CD2	1:L:619:ILE:HG12	2.56	0.40
1:N:347:GLN:HA	1:N:407:ASP:O	2.21	0.40
1:O:408:MET:CE	1:d:234:TRP:HE3	2.34	0.40
1:O:609:LEU:HB2	1:O:612:MET:HE3	2.03	0.40
1:Q:524:GLN:HB3	1:Q:525:PRO:HD3	2.02	0.40
1:Q:536:GLU:OE1	1:Q:539:ARG:NH2	2.54	0.40
1:T:347:GLN:HA	1:T:407:ASP:O	2.21	0.40
1:U:487:PHE:CD2	1:U:512:LYS:HD2	2.54	0.40
1:V:427:HIS:CD2	1:V:619:ILE:HG12	2.56	0.40
1:V:435:THR:HG21	1:e:519:ARG:HH12	1.85	0.40
1:W:427:HIS:CD2	1:W:619:ILE:HG12	2.56	0.40
1:X:347:GLN:HA	1:X:407:ASP:O	2.21	0.40
1:X:536:GLU:OE1	1:X:539:ARG:NH2	2.54	0.40
1:a:435:THR:HG21	1:8:519:ARG:HH12	1.84	0.40
1:c:346:VAL:O	1:c:409:LEU:N	2.52	0.40
1:c:628:LYS:HG3	1:c:650:PRO:HD3	2.02	0.40
1:f:263:TYR:O	1:z:726:GLY:HA2	2.22	0.40
1:f:408:MET:CE	1:z:234:TRP:HE3	2.34	0.40
1:f:427:HIS:CD2	1:f:619:ILE:HG12	2.56	0.40
1:f:628:LYS:HG3	1:f:650:PRO:HD3	2.03	0.40
1:f:638:PRO:HD2	2:f:801:D5M:C2'	2.51	0.40
1:h:234:TRP:HE3	1:i:408:MET:CE	2.34	0.40
1:m:536:GLU:OE1	1:m:539:ARG:NH2	2.54	0.40
1:p:427:HIS:CD2	1:p:619:ILE:HG12	2.56	0.40
1:r:536:GLU:OE1	1:r:539:ARG:NH2	2.54	0.40
1:t:726:GLY:HA2	1:6:263:TYR:O	2.21	0.40
1:w:600:ARG:HH12	1:x:513:GLN:CD	2.29	0.40
1:w:609:LEU:HB2	1:w:612:MET:HE3	2.02	0.40
1:w:628:LYS:HG3	1:w:650:PRO:HD3	2.03	0.40
1:x:524:GLN:HB3	1:x:525:PRO:HD3	2.02	0.40
1:x:536:GLU:OE1	1:x:539:ARG:NH2	2.54	0.40
1:x:609:LEU:HB2	1:x:612:MET:HE3	2.02	0.40
1:z:347:GLN:HA	1:z:407:ASP:O	2.21	0.40
1:2:249:THR:OG1	1:2:251:ARG:NH1	2.52	0.40
1:2:375:ILE:CD1	1:3:677:PHE:HE1	2.31	0.40
1:3:234:TRP:HE3	1:8:408:MET:CE	2.35	0.40
1:3:536:GLU:OE1	1:3:539:ARG:NH2	2.54	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:5:677:PHE:CE1	1:8:375:ILE:HD12	2.51	0.40
1:8:354:TYR:OH	1:8:650:PRO:O	2.27	0.40
1:8:536:GLU:OE1	1:8:539:ARG:NH2	2.54	0.40
1:A:427:HIS:CD2	1:A:619:ILE:HG12	2.56	0.40
1:C:408:MET:CE	1:D:234:TRP:HE3	2.34	0.40
1:C:435:THR:HG21	1:b:519:ARG:HH12	1.85	0.40
1:D:354:TYR:OH	1:D:650:PRO:O	2.27	0.40
1:E:519:ARG:HH12	1:F:435:THR:HG21	1.85	0.40
1:E:628:LYS:HG3	1:E:650:PRO:HD3	2.03	0.40
1:G:234:TRP:HE3	1:W:408:MET:CE	2.34	0.40
1:G:347:GLN:HA	1:G:407:ASP:O	2.21	0.40
1:G:628:LYS:HG3	1:G:650:PRO:HD3	2.03	0.40
1:H:346:VAL:O	1:H:409:LEU:N	2.52	0.40
1:H:427:HIS:CD2	1:H:619:ILE:HG12	2.56	0.40
1:I:234:TRP:HE3	1:J:408:MET:CE	2.34	0.40
1:I:427:HIS:CD2	1:I:619:ILE:HG12	2.56	0.40
1:J:249:THR:OG1	1:J:251:ARG:NH1	2.52	0.40
1:J:347:GLN:HA	1:J:407:ASP:O	2.21	0.40
1:J:588:PRO:HD3	1:L:512:LYS:HB3	2.03	0.40
1:K:258:TYR:OH	1:K:378:ILE:O	2.34	0.40
1:L:347:GLN:HA	1:L:407:ASP:O	2.21	0.40
1:M:234:TRP:HE3	1:N:408:MET:CE	2.34	0.40
1:M:408:MET:CE	1:c:234:TRP:HE3	2.34	0.40
1:M:512:LYS:HB3	1:b:588:PRO:HD3	2.03	0.40
1:N:609:LEU:HB2	1:N:612:MET:HE3	2.02	0.40
1:O:346:VAL:O	1:O:409:LEU:N	2.52	0.40
1:O:347:GLN:HA	1:O:407:ASP:O	2.21	0.40
1:R:427:HIS:CD2	1:R:619:ILE:HG12	2.56	0.40
1:R:449:TRP:HE1	1:S:549:SER:HG	1.62	0.40
1:R:588:PRO:HD3	1:S:512:LYS:HB3	2.03	0.40
1:S:347:GLN:HA	1:S:407:ASP:O	2.21	0.40
1:S:427:HIS:CD2	1:S:619:ILE:HG12	2.56	0.40
1:S:536:GLU:OE1	1:S:539:ARG:NH2	2.54	0.40
1:T:513:GLN:CD	1:l:600:ARG:HH12	2.29	0.40
1:U:299:PRO:HB2	1:V:704:PRO:HD3	2.02	0.40
1:U:347:GLN:HA	1:U:407:ASP:O	2.21	0.40
1:U:533:PHE:CE1	1:U:579:VAL:HG21	2.55	0.40
1:W:536:GLU:OE1	1:W:539:ARG:NH2	2.54	0.40
1:Y:507:VAL:CG1	1:Y:543:GLN:HE22	2.34	0.40
1:Y:536:GLU:OE1	1:Y:539:ARG:NH2	2.54	0.40
1:b:347:GLN:HA	1:b:407:ASP:O	2.21	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:b:427:HIS:CD2	1:b:619:ILE:HG12	2.56	0.40
1:b:545:THR:OG1	1:b:568:THR:O	2.35	0.40
1:b:628:LYS:HG3	1:b:650:PRO:HD3	2.03	0.40
1:d:427:HIS:CD2	1:d:619:ILE:HG12	2.56	0.40
1:d:433:ASN:O	1:l:386:LEU:N	2.46	0.40
1:d:664:ASN:HA	1:d:665:PRO:HD3	1.95	0.40
1:e:234:TRP:HE3	1:h:408:MET:CE	2.34	0.40
1:e:536:GLU:OE1	1:e:539:ARG:NH2	2.54	0.40
1:e:566:LEU:HB3	1:e:733:PRO:HD3	2.02	0.40
1:e:628:LYS:HG3	1:e:650:PRO:HD3	2.03	0.40
1:f:347:GLN:HA	1:f:407:ASP:O	2.21	0.40
1:f:533:PHE:CE1	1:f:579:VAL:HG21	2.55	0.40
1:f:651:PRO:HA	1:f:652:PRO:HD3	1.94	0.40
1:h:566:LEU:HB3	1:h:733:PRO:HD3	2.02	0.40
1:i:513:GLN:CD	1:k:600:ARG:HH12	2.29	0.40
1:j:464:LEU:HG	1:k:499:ILE:HD11	2.04	0.40
1:l:347:GLN:HA	1:l:407:ASP:O	2.21	0.40
1:l:408:MET:CE	1:n:234:TRP:HE3	2.35	0.40
1:m:588:PRO:HD3	1:n:512:LYS:HB3	2.03	0.40
1:n:427:HIS:CD2	1:n:619:ILE:HG12	2.56	0.40
1:o:536:GLU:OE1	1:o:539:ARG:NH2	2.54	0.40
1:q:464:LEU:HG	1:r:499:ILE:HD11	2.03	0.40
1:q:507:VAL:CG1	1:q:543:GLN:HE22	2.34	0.40
1:s:347:GLN:HA	1:s:407:ASP:O	2.21	0.40
1:s:628:LYS:HG3	1:s:650:PRO:HD3	2.03	0.40
1:t:375:ILE:CD1	1:6:677:PHE:HE1	2.31	0.40
1:t:609:LEU:HB2	1:t:612:MET:HE3	2.02	0.40
1:t:628:LYS:HG3	1:t:650:PRO:HD3	2.03	0.40
1:u:347:GLN:HA	1:u:407:ASP:O	2.21	0.40
1:u:536:GLU:OE1	1:u:539:ARG:NH2	2.54	0.40
1:u:704:PRO:HD3	1:1:299:PRO:HB2	2.02	0.40
1:v:427:HIS:CD2	1:v:619:ILE:HG12	2.56	0.40
1:w:487:PHE:CD2	1:w:512:LYS:HD2	2.54	0.40
1:y:255:LEU:HD22	1:y:656:ILE:HG12	2.02	0.40
1:z:427:HIS:CD2	1:z:619:ILE:HG12	2.56	0.40
1:z:524:GLN:HB3	1:z:525:PRO:HD3	2.02	0.40
1:4:258:TYR:OH	1:4:378:ILE:O	2.34	0.40
1:4:536:GLU:OE1	1:4:539:ARG:NH2	2.54	0.40
1:5:347:GLN:HA	1:5:407:ASP:O	2.21	0.40
1:6:464:LEU:HG	1:7:499:ILE:HD11	2.03	0.40
1:7:507:VAL:CG1	1:7:543:GLN:HE22	2.34	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:7:524:GLN:HB3	1:7:525:PRO:HD3	2.02	0.40
1:7:628:LYS:HG3	1:7:650:PRO:HD3	2.03	0.40
1:8:346:VAL:O	1:8:409:LEU:N	2.52	0.40
1:A:308:ASN:OD1	1:F:308:ASN:ND2	2.55	0.40
1:B:299:PRO:HB2	1:I:704:PRO:HD3	2.02	0.40
1:B:427:HIS:CD2	1:B:619:ILE:HG12	2.56	0.40
1:C:347:GLN:HA	1:C:407:ASP:O	2.21	0.40
1:C:600:ARG:HH12	1:b:513:GLN:CD	2.29	0.40
1:D:536:GLU:OE1	1:D:539:ARG:NH2	2.54	0.40
1:D:677:PHE:HE1	1:E:375:ILE:CD1	2.31	0.40
1:E:433:ASN:O	1:Q:386:LEU:N	2.46	0.40
1:E:435:THR:HG21	1:Q:519:ARG:HH12	1.85	0.40
1:E:512:LYS:HB3	1:F:588:PRO:HD3	2.03	0.40
1:F:371:PHE:HA	1:F:372:PRO:HD3	1.99	0.40
1:G:375:ILE:CD1	1:W:677:PHE:HE1	2.31	0.40
1:G:536:GLU:OE1	1:G:539:ARG:NH2	2.54	0.40
1:H:347:GLN:HA	1:H:407:ASP:O	2.21	0.40
1:H:433:ASN:O	1:W:386:LEU:N	2.46	0.40
1:H:513:GLN:CD	1:Y:600:ARG:HH12	2.29	0.40
1:J:255:LEU:HD22	1:J:656:ILE:HG12	2.02	0.40
1:J:308:ASN:OD1	1:K:308:ASN:ND2	2.55	0.40
1:J:375:ILE:CD1	1:a:677:PHE:HE1	2.31	0.40
1:K:318:ARG:HD2	1:K:416:GLU:OE2	2.22	0.40
1:K:427:HIS:CD2	1:K:619:ILE:HG12	2.56	0.40
1:O:234:TRP:HE3	1:P:408:MET:CE	2.35	0.40
1:O:255:LEU:HD22	1:O:656:ILE:HG12	2.02	0.40
1:P:234:TRP:HE3	1:Q:408:MET:CE	2.34	0.40
1:R:464:LEU:HG	1:S:499:ILE:HD11	2.03	0.40
1:R:507:VAL:CG1	1:R:543:GLN:HE22	2.34	0.40
1:T:371:PHE:HA	1:T:372:PRO:HD3	1.99	0.40
1:T:536:GLU:OE1	1:T:539:ARG:NH2	2.54	0.40
1:U:258:TYR:OH	1:U:378:ILE:O	2.34	0.40
1:W:464:LEU:HG	1:Y:499:ILE:HD11	2.03	0.40
1:X:234:TRP:HE3	1:Y:408:MET:CE	2.34	0.40
1:X:255:LEU:HD22	1:X:656:ILE:HG12	2.02	0.40
1:Z:346:VAL:O	1:Z:409:LEU:N	2.52	0.40
1:Z:512:LYS:HB3	1:3:588:PRO:HD3	2.03	0.40
1:a:609:LEU:HB2	1:a:612:MET:HE3	2.02	0.40
1:b:536:GLU:OE1	1:b:539:ARG:NH2	2.54	0.40
1:b:638:PRO:HD2	2:b:801:D5M:C2'	2.51	0.40
1:c:519:ARG:HH12	1:p:435:THR:HG21	1.85	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:c:566:LEU:HB3	1:c:733:PRO:HD3	2.02	0.40
1:f:346:VAL:O	1:f:409:LEU:N	2.52	0.40
1:f:513:GLN:CD	1:g:600:ARG:HH12	2.29	0.40
1:f:588:PRO:HD3	1:h:512:LYS:HB3	2.03	0.40
1:g:347:GLN:HA	1:g:407:ASP:O	2.21	0.40
1:g:408:MET:CE	1:k:234:TRP:HE3	2.34	0.40
1:i:386:LEU:N	1:k:433:ASN:O	2.46	0.40
1:j:408:MET:CE	1:l:234:TRP:HE3	2.35	0.40
1:l:263:TYR:O	1:n:726:GLY:HA2	2.22	0.40
1:o:255:LEU:HD22	1:o:656:ILE:HG12	2.02	0.40
1:p:249:THR:OG1	1:p:251:ARG:NH1	2.53	0.40
1:p:726:GLY:HA2	1:q:263:TYR:O	2.22	0.40
1:q:427:HIS:CD2	1:q:619:ILE:HG12	2.56	0.40
1:q:588:PRO:HD3	1:r:512:LYS:HB3	2.03	0.40
1:u:408:MET:CE	1:5:234:TRP:HE3	2.34	0.40
1:u:427:HIS:CD2	1:u:619:ILE:HG12	2.56	0.40
1:u:464:LEU:HG	1:v:499:ILE:HD11	2.04	0.40
1:z:408:MET:CE	1:4:234:TRP:HE3	2.34	0.40
1:z:512:LYS:HB3	1:2:588:PRO:HD3	2.03	0.40
1:1:427:HIS:CD2	1:1:619:ILE:HG12	2.56	0.40
1:1:487:PHE:CD2	1:1:512:LYS:HD2	2.54	0.40
1:2:255:LEU:HD22	1:2:656:ILE:HG12	2.02	0.40
1:4:318:ARG:HD2	1:4:416:GLU:OE2	2.22	0.40
1:5:513:GLN:CD	1:7:600:ARG:HH12	2.29	0.40
1:5:615:GLN:NE2	1:6:632:THR:HA	2.37	0.40
1:6:536:GLU:OE1	1:6:539:ARG:NH2	2.54	0.40
1:7:536:GLU:OE1	1:7:539:ARG:NH2	2.54	0.40
1:8:427:HIS:CD2	1:8:619:ILE:HG12	2.56	0.40
1:B:308:ASN:OD1	1:I:308:ASN:ND2	2.55	0.40
1:D:255:LEU:HD22	1:D:656:ILE:HG12	2.02	0.40
1:F:347:GLN:HA	1:F:407:ASP:O	2.21	0.40
1:F:499:ILE:HD11	1:Q:464:LEU:HG	2.04	0.40
1:H:637:HIS:O	1:H:639:SER:N	2.51	0.40
1:I:347:GLN:HA	1:I:407:ASP:O	2.21	0.40
1:I:507:VAL:CG1	1:I:543:GLN:HE22	2.34	0.40
1:K:499:ILE:HD11	1:8:464:LEU:HG	2.03	0.40
1:L:524:GLN:HB3	1:L:525:PRO:HD3	2.02	0.40
1:M:536:GLU:OE1	1:M:539:ARG:NH2	2.54	0.40
1:M:726:GLY:HA2	1:N:263:TYR:O	2.22	0.40
1:N:427:HIS:CD2	1:N:619:ILE:HG12	2.56	0.40
1:R:536:GLU:OE1	1:R:539:ARG:NH2	2.54	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:S:249:THR:OG1	1:S:251:ARG:NH1	2.52	0.40
1:T:263:TYR:O	1:i:726:GLY:HA2	2.22	0.40
1:U:318:ARG:HD2	1:U:416:GLU:OE2	2.22	0.40
1:U:628:LYS:HG3	1:U:650:PRO:HD3	2.03	0.40
1:V:249:THR:OG1	1:V:251:ARG:NH1	2.52	0.40
1:V:588:PRO:HD3	1:e:512:LYS:HB3	2.03	0.40
1:W:600:ARG:HH12	1:Y:513:GLN:CD	2.29	0.40
1:Y:427:HIS:CD2	1:Y:619:ILE:HG12	2.56	0.40
1:Z:318:ARG:HD2	1:Z:416:GLU:OE2	2.22	0.40
1:Z:464:LEU:HG	1:4:499:ILE:HD11	2.03	0.40
1:a:588:PRO:HD3	1:8:512:LYS:HB3	2.03	0.40
1:a:718:ILE:HD13	1:a:718:ILE:HG21	1.91	0.40
1:b:507:VAL:CG1	1:b:543:GLN:HE22	2.34	0.40
1:c:512:LYS:HB3	1:p:588:PRO:HD3	2.03	0.40
1:d:318:ARG:HD2	1:d:416:GLU:OE2	2.22	0.40
1:f:536:GLU:OE1	1:f:539:ARG:NH2	2.54	0.40
1:g:308:ASN:OD1	1:z:308:ASN:ND2	2.55	0.40
1:g:638:PRO:HD2	2:g:801:D5M:C2'	2.51	0.40
1:h:536:GLU:OE1	1:h:539:ARG:NH2	2.54	0.40
1:i:427:HIS:CD2	1:i:619:ILE:HG12	2.56	0.40
1:k:255:LEU:HD22	1:k:656:ILE:HG12	2.03	0.40
1:k:536:GLU:OE1	1:k:539:ARG:NH2	2.54	0.40
1:o:318:ARG:HD2	1:o:416:GLU:OE2	2.22	0.40
1:p:375:ILE:CD1	1:q:677:PHE:HE1	2.31	0.40
1:p:704:PRO:HD3	1:s:299:PRO:HB2	2.01	0.40
1:q:536:GLU:OE1	1:q:539:ARG:NH2	2.54	0.40
1:r:249:THR:OG1	1:r:251:ARG:NH1	2.52	0.40
1:r:347:GLN:HA	1:r:407:ASP:O	2.21	0.40
1:r:408:MET:CE	1:x:234:TRP:HE3	2.34	0.40
1:s:318:ARG:HD2	1:s:416:GLU:OE2	2.22	0.40
1:t:347:GLN:HA	1:t:407:ASP:O	2.21	0.40
1:t:536:GLU:OE1	1:t:539:ARG:NH2	2.54	0.40
1:u:234:TRP:HE3	1:2:408:MET:CE	2.34	0.40
1:u:318:ARG:HD2	1:u:416:GLU:OE2	2.22	0.40
1:v:265:ARG:H	1:1:724:ASP:HA	1.87	0.40
1:v:408:MET:CE	1:1:234:TRP:HE3	2.34	0.40
1:w:512:LYS:HB3	1:y:588:PRO:HD3	2.03	0.40
1:w:588:PRO:HD3	1:x:512:LYS:HB3	2.03	0.40
1:z:600:ARG:HH12	1:1:513:GLN:CD	2.29	0.40
1:1:536:GLU:OE1	1:1:539:ARG:NH2	2.54	0.40
1:2:726:GLY:HA2	1:3:263:TYR:O	2.22	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:3:512:LYS:HB3	1:4:588:PRO:HD3	2.03	0.40
1:4:427:HIS:CD2	1:4:619:ILE:HG12	2.56	0.40
1:5:427:HIS:CD2	1:5:619:ILE:HG12	2.56	0.40
1:5:637:HIS:O	1:5:639:SER:N	2.51	0.40
1:7:427:HIS:CD2	1:7:619:ILE:HG12	2.56	0.40
1:8:318:ARG:HD2	1:8:416:GLU:OE2	2.22	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	517/535 (97%)	505 (98%)	12 (2%)	0	100	100
1	2	517/535 (97%)	505 (98%)	12 (2%)	0	100	100
1	3	517/535 (97%)	505 (98%)	12 (2%)	0	100	100
1	4	517/535 (97%)	505 (98%)	12 (2%)	0	100	100
1	5	517/535 (97%)	505 (98%)	12 (2%)	0	100	100
1	6	517/535 (97%)	505 (98%)	12 (2%)	0	100	100
1	7	517/535 (97%)	505 (98%)	12 (2%)	0	100	100
1	8	517/535 (97%)	505 (98%)	12 (2%)	0	100	100
1	A	517/535 (97%)	505 (98%)	12 (2%)	0	100	100
1	B	517/535 (97%)	505 (98%)	12 (2%)	0	100	100
1	C	517/535 (97%)	505 (98%)	12 (2%)	0	100	100
1	D	517/535 (97%)	505 (98%)	12 (2%)	0	100	100
1	E	517/535 (97%)	505 (98%)	12 (2%)	0	100	100
1	F	517/535 (97%)	505 (98%)	12 (2%)	0	100	100
1	G	517/535 (97%)	505 (98%)	12 (2%)	0	100	100

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	H	517/535 (97%)	505 (98%)	12 (2%)	0	100	100
1	I	517/535 (97%)	505 (98%)	12 (2%)	0	100	100
1	J	517/535 (97%)	505 (98%)	12 (2%)	0	100	100
1	K	517/535 (97%)	505 (98%)	12 (2%)	0	100	100
1	L	517/535 (97%)	505 (98%)	12 (2%)	0	100	100
1	M	517/535 (97%)	505 (98%)	12 (2%)	0	100	100
1	N	517/535 (97%)	505 (98%)	12 (2%)	0	100	100
1	O	517/535 (97%)	505 (98%)	12 (2%)	0	100	100
1	P	517/535 (97%)	505 (98%)	12 (2%)	0	100	100
1	Q	517/535 (97%)	505 (98%)	12 (2%)	0	100	100
1	R	517/535 (97%)	505 (98%)	12 (2%)	0	100	100
1	S	517/535 (97%)	505 (98%)	12 (2%)	0	100	100
1	T	517/535 (97%)	505 (98%)	12 (2%)	0	100	100
1	U	517/535 (97%)	505 (98%)	12 (2%)	0	100	100
1	V	517/535 (97%)	505 (98%)	12 (2%)	0	100	100
1	W	517/535 (97%)	505 (98%)	12 (2%)	0	100	100
1	X	517/535 (97%)	505 (98%)	12 (2%)	0	100	100
1	Y	517/535 (97%)	505 (98%)	12 (2%)	0	100	100
1	Z	517/535 (97%)	505 (98%)	12 (2%)	0	100	100
1	a	517/535 (97%)	505 (98%)	12 (2%)	0	100	100
1	b	517/535 (97%)	505 (98%)	12 (2%)	0	100	100
1	c	517/535 (97%)	505 (98%)	12 (2%)	0	100	100
1	d	517/535 (97%)	505 (98%)	12 (2%)	0	100	100
1	e	517/535 (97%)	505 (98%)	12 (2%)	0	100	100
1	f	517/535 (97%)	505 (98%)	12 (2%)	0	100	100
1	g	517/535 (97%)	505 (98%)	12 (2%)	0	100	100
1	h	517/535 (97%)	505 (98%)	12 (2%)	0	100	100
1	i	517/535 (97%)	505 (98%)	12 (2%)	0	100	100
1	j	517/535 (97%)	505 (98%)	12 (2%)	0	100	100
1	k	517/535 (97%)	505 (98%)	12 (2%)	0	100	100
1	l	517/535 (97%)	505 (98%)	12 (2%)	0	100	100

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	m	517/535 (97%)	505 (98%)	12 (2%)	0	100	100
1	n	517/535 (97%)	505 (98%)	12 (2%)	0	100	100
1	o	517/535 (97%)	505 (98%)	12 (2%)	0	100	100
1	p	517/535 (97%)	505 (98%)	12 (2%)	0	100	100
1	q	517/535 (97%)	505 (98%)	12 (2%)	0	100	100
1	r	517/535 (97%)	505 (98%)	12 (2%)	0	100	100
1	s	517/535 (97%)	505 (98%)	12 (2%)	0	100	100
1	t	517/535 (97%)	505 (98%)	12 (2%)	0	100	100
1	u	517/535 (97%)	505 (98%)	12 (2%)	0	100	100
1	v	517/535 (97%)	505 (98%)	12 (2%)	0	100	100
1	w	517/535 (97%)	505 (98%)	12 (2%)	0	100	100
1	x	517/535 (97%)	505 (98%)	12 (2%)	0	100	100
1	y	517/535 (97%)	505 (98%)	12 (2%)	0	100	100
1	z	517/535 (97%)	505 (98%)	12 (2%)	0	100	100
All	All	31020/32100 (97%)	30300 (98%)	720 (2%)	0	100	100

There are no Ramachandran outliers to report.

5.3.2 Protein sidechains ⓘ

In the following table, the Percentiles column shows the percent sidechain outliers of the chain as a percentile score with respect to all 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	452/458 (99%)	452 (100%)	0	100	100
1	2	452/458 (99%)	452 (100%)	0	100	100
1	3	452/458 (99%)	452 (100%)	0	100	100
1	4	452/458 (99%)	452 (100%)	0	100	100
1	5	452/458 (99%)	452 (100%)	0	100	100
1	6	452/458 (99%)	452 (100%)	0	100	100
1	7	452/458 (99%)	452 (100%)	0	100	100

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
1	8	452/458 (99%)	452 (100%)	0	100	100
1	A	452/458 (99%)	452 (100%)	0	100	100
1	B	452/458 (99%)	452 (100%)	0	100	100
1	C	452/458 (99%)	452 (100%)	0	100	100
1	D	452/458 (99%)	452 (100%)	0	100	100
1	E	452/458 (99%)	452 (100%)	0	100	100
1	F	452/458 (99%)	452 (100%)	0	100	100
1	G	452/458 (99%)	452 (100%)	0	100	100
1	H	452/458 (99%)	452 (100%)	0	100	100
1	I	452/458 (99%)	452 (100%)	0	100	100
1	J	452/458 (99%)	452 (100%)	0	100	100
1	K	452/458 (99%)	452 (100%)	0	100	100
1	L	452/458 (99%)	452 (100%)	0	100	100
1	M	452/458 (99%)	452 (100%)	0	100	100
1	N	452/458 (99%)	452 (100%)	0	100	100
1	O	452/458 (99%)	452 (100%)	0	100	100
1	P	452/458 (99%)	452 (100%)	0	100	100
1	Q	452/458 (99%)	452 (100%)	0	100	100
1	R	452/458 (99%)	452 (100%)	0	100	100
1	S	452/458 (99%)	452 (100%)	0	100	100
1	T	452/458 (99%)	452 (100%)	0	100	100
1	U	452/458 (99%)	452 (100%)	0	100	100
1	V	452/458 (99%)	452 (100%)	0	100	100
1	W	452/458 (99%)	452 (100%)	0	100	100
1	X	452/458 (99%)	452 (100%)	0	100	100
1	Y	452/458 (99%)	452 (100%)	0	100	100
1	Z	452/458 (99%)	452 (100%)	0	100	100
1	a	452/458 (99%)	452 (100%)	0	100	100
1	b	452/458 (99%)	452 (100%)	0	100	100
1	c	452/458 (99%)	452 (100%)	0	100	100
1	d	452/458 (99%)	452 (100%)	0	100	100

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
1	e	452/458 (99%)	452 (100%)	0	100	100
1	f	452/458 (99%)	452 (100%)	0	100	100
1	g	452/458 (99%)	452 (100%)	0	100	100
1	h	452/458 (99%)	452 (100%)	0	100	100
1	i	452/458 (99%)	452 (100%)	0	100	100
1	j	452/458 (99%)	452 (100%)	0	100	100
1	k	452/458 (99%)	452 (100%)	0	100	100
1	l	452/458 (99%)	452 (100%)	0	100	100
1	m	452/458 (99%)	452 (100%)	0	100	100
1	n	452/458 (99%)	452 (100%)	0	100	100
1	o	452/458 (99%)	452 (100%)	0	100	100
1	p	452/458 (99%)	452 (100%)	0	100	100
1	q	452/458 (99%)	452 (100%)	0	100	100
1	r	452/458 (99%)	452 (100%)	0	100	100
1	s	452/458 (99%)	452 (100%)	0	100	100
1	t	452/458 (99%)	452 (100%)	0	100	100
1	u	452/458 (99%)	452 (100%)	0	100	100
1	v	452/458 (99%)	452 (100%)	0	100	100
1	w	452/458 (99%)	452 (100%)	0	100	100
1	x	452/458 (99%)	452 (100%)	0	100	100
1	y	452/458 (99%)	452 (100%)	0	100	100
1	z	452/458 (99%)	452 (100%)	0	100	100
All	All	27120/27480 (99%)	27120 (100%)	0	100	100

There are no protein residues with a non-rotameric sidechain to report.

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (1132) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	235	HIS
1	A	274	ASN
1	A	276	ASN
1	A	323	ASN
1	A	341	ASN

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Mol	Chain	Res	Type
1	A	347	GLN
1	A	413	ASN
1	A	433	ASN
1	A	434	GLN
1	A	502	ASN
1	A	521	ASN
1	A	524	GLN
1	A	543	GLN
1	A	544	ASN
1	A	564	GLN
1	A	615	GLN
1	A	649	HIS
1	A	653	GLN
1	A	714	ASN
1	B	235	HIS
1	B	276	ASN
1	B	323	ASN
1	B	341	ASN
1	B	347	GLN
1	B	413	ASN
1	B	433	ASN
1	B	434	GLN
1	B	502	ASN
1	B	524	GLN
1	B	543	GLN
1	B	544	ASN
1	B	564	GLN
1	B	615	GLN
1	B	649	HIS
1	B	653	GLN
1	B	714	ASN
1	C	235	HIS
1	C	276	ASN
1	C	323	ASN
1	C	341	ASN
1	C	347	GLN
1	C	413	ASN
1	C	427	HIS
1	C	433	ASN
1	C	434	GLN
1	C	502	ASN
1	C	521	ASN

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Mol	Chain	Res	Type
1	C	524	GLN
1	C	543	GLN
1	C	544	ASN
1	C	564	GLN
1	C	615	GLN
1	C	649	HIS
1	C	653	GLN
1	C	714	ASN
1	D	235	HIS
1	D	274	ASN
1	D	276	ASN
1	D	323	ASN
1	D	341	ASN
1	D	347	GLN
1	D	413	ASN
1	D	427	HIS
1	D	433	ASN
1	D	434	GLN
1	D	502	ASN
1	D	521	ASN
1	D	524	GLN
1	D	543	GLN
1	D	544	ASN
1	D	564	GLN
1	D	615	GLN
1	D	649	HIS
1	D	653	GLN
1	D	714	ASN
1	E	235	HIS
1	E	276	ASN
1	E	323	ASN
1	E	341	ASN
1	E	347	GLN
1	E	413	ASN
1	E	427	HIS
1	E	433	ASN
1	E	434	GLN
1	E	502	ASN
1	E	521	ASN
1	E	524	GLN
1	E	543	GLN
1	E	544	ASN

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Mol	Chain	Res	Type
1	E	564	GLN
1	E	615	GLN
1	E	649	HIS
1	E	653	GLN
1	E	714	ASN
1	F	235	HIS
1	F	276	ASN
1	F	323	ASN
1	F	341	ASN
1	F	347	GLN
1	F	413	ASN
1	F	427	HIS
1	F	433	ASN
1	F	434	GLN
1	F	502	ASN
1	F	521	ASN
1	F	524	GLN
1	F	543	GLN
1	F	544	ASN
1	F	564	GLN
1	F	615	GLN
1	F	649	HIS
1	F	653	GLN
1	F	714	ASN
1	G	235	HIS
1	G	276	ASN
1	G	323	ASN
1	G	341	ASN
1	G	347	GLN
1	G	413	ASN
1	G	427	HIS
1	G	433	ASN
1	G	434	GLN
1	G	502	ASN
1	G	521	ASN
1	G	524	GLN
1	G	543	GLN
1	G	544	ASN
1	G	564	GLN
1	G	615	GLN
1	G	653	GLN
1	G	714	ASN

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Mol	Chain	Res	Type
1	H	235	HIS
1	H	276	ASN
1	H	323	ASN
1	H	341	ASN
1	H	347	GLN
1	H	413	ASN
1	H	427	HIS
1	H	433	ASN
1	H	434	GLN
1	H	502	ASN
1	H	521	ASN
1	H	543	GLN
1	H	544	ASN
1	H	564	GLN
1	H	615	GLN
1	H	649	HIS
1	H	653	GLN
1	H	714	ASN
1	I	235	HIS
1	I	276	ASN
1	I	323	ASN
1	I	341	ASN
1	I	347	GLN
1	I	413	ASN
1	I	427	HIS
1	I	433	ASN
1	I	434	GLN
1	I	502	ASN
1	I	521	ASN
1	I	524	GLN
1	I	543	GLN
1	I	544	ASN
1	I	564	GLN
1	I	615	GLN
1	I	649	HIS
1	I	653	GLN
1	I	714	ASN
1	J	235	HIS
1	J	276	ASN
1	J	323	ASN
1	J	341	ASN
1	J	347	GLN

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Mol	Chain	Res	Type
1	J	413	ASN
1	J	427	HIS
1	J	433	ASN
1	J	434	GLN
1	J	502	ASN
1	J	524	GLN
1	J	543	GLN
1	J	544	ASN
1	J	564	GLN
1	J	615	GLN
1	J	649	HIS
1	J	653	GLN
1	J	714	ASN
1	K	235	HIS
1	K	276	ASN
1	K	323	ASN
1	K	341	ASN
1	K	347	GLN
1	K	413	ASN
1	K	433	ASN
1	K	434	GLN
1	K	502	ASN
1	K	521	ASN
1	K	524	GLN
1	K	543	GLN
1	K	544	ASN
1	K	564	GLN
1	K	615	GLN
1	K	649	HIS
1	K	653	GLN
1	K	714	ASN
1	L	235	HIS
1	L	276	ASN
1	L	323	ASN
1	L	341	ASN
1	L	347	GLN
1	L	413	ASN
1	L	427	HIS
1	L	433	ASN
1	L	434	GLN
1	L	502	ASN
1	L	521	ASN

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Mol	Chain	Res	Type
1	L	524	GLN
1	L	543	GLN
1	L	544	ASN
1	L	564	GLN
1	L	615	GLN
1	L	649	HIS
1	L	653	GLN
1	L	714	ASN
1	M	235	HIS
1	M	274	ASN
1	M	276	ASN
1	M	323	ASN
1	M	341	ASN
1	M	347	GLN
1	M	413	ASN
1	M	427	HIS
1	M	433	ASN
1	M	434	GLN
1	M	502	ASN
1	M	521	ASN
1	M	524	GLN
1	M	543	GLN
1	M	544	ASN
1	M	564	GLN
1	M	615	GLN
1	M	649	HIS
1	M	653	GLN
1	M	714	ASN
1	N	235	HIS
1	N	276	ASN
1	N	323	ASN
1	N	341	ASN
1	N	347	GLN
1	N	413	ASN
1	N	427	HIS
1	N	433	ASN
1	N	434	GLN
1	N	502	ASN
1	N	521	ASN
1	N	524	GLN
1	N	543	GLN
1	N	544	ASN

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Mol	Chain	Res	Type
1	N	564	GLN
1	N	615	GLN
1	N	649	HIS
1	N	653	GLN
1	N	714	ASN
1	O	235	HIS
1	O	276	ASN
1	O	323	ASN
1	O	341	ASN
1	O	347	GLN
1	O	413	ASN
1	O	427	HIS
1	O	433	ASN
1	O	434	GLN
1	O	502	ASN
1	O	521	ASN
1	O	524	GLN
1	O	543	GLN
1	O	544	ASN
1	O	564	GLN
1	O	615	GLN
1	O	649	HIS
1	O	653	GLN
1	O	714	ASN
1	P	235	HIS
1	P	276	ASN
1	P	323	ASN
1	P	341	ASN
1	P	347	GLN
1	P	413	ASN
1	P	433	ASN
1	P	434	GLN
1	P	502	ASN
1	P	521	ASN
1	P	524	GLN
1	P	543	GLN
1	P	544	ASN
1	P	564	GLN
1	P	615	GLN
1	P	649	HIS
1	P	653	GLN
1	P	714	ASN

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Mol	Chain	Res	Type
1	Q	235	HIS
1	Q	276	ASN
1	Q	323	ASN
1	Q	341	ASN
1	Q	347	GLN
1	Q	413	ASN
1	Q	427	HIS
1	Q	433	ASN
1	Q	434	GLN
1	Q	502	ASN
1	Q	521	ASN
1	Q	524	GLN
1	Q	543	GLN
1	Q	544	ASN
1	Q	564	GLN
1	Q	615	GLN
1	Q	649	HIS
1	Q	653	GLN
1	Q	714	ASN
1	R	235	HIS
1	R	276	ASN
1	R	323	ASN
1	R	341	ASN
1	R	347	GLN
1	R	413	ASN
1	R	427	HIS
1	R	433	ASN
1	R	434	GLN
1	R	502	ASN
1	R	521	ASN
1	R	524	GLN
1	R	543	GLN
1	R	544	ASN
1	R	564	GLN
1	R	615	GLN
1	R	649	HIS
1	R	653	GLN
1	R	714	ASN
1	S	235	HIS
1	S	276	ASN
1	S	323	ASN
1	S	341	ASN

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Mol	Chain	Res	Type
1	S	347	GLN
1	S	413	ASN
1	S	427	HIS
1	S	433	ASN
1	S	434	GLN
1	S	502	ASN
1	S	521	ASN
1	S	543	GLN
1	S	544	ASN
1	S	564	GLN
1	S	615	GLN
1	S	649	HIS
1	S	653	GLN
1	S	714	ASN
1	T	235	HIS
1	T	276	ASN
1	T	323	ASN
1	T	341	ASN
1	T	347	GLN
1	T	413	ASN
1	T	427	HIS
1	T	433	ASN
1	T	434	GLN
1	T	502	ASN
1	T	521	ASN
1	T	524	GLN
1	T	543	GLN
1	T	544	ASN
1	T	564	GLN
1	T	615	GLN
1	T	649	HIS
1	T	653	GLN
1	T	714	ASN
1	U	235	HIS
1	U	276	ASN
1	U	323	ASN
1	U	341	ASN
1	U	347	GLN
1	U	413	ASN
1	U	427	HIS
1	U	433	ASN
1	U	434	GLN

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Mol	Chain	Res	Type
1	U	502	ASN
1	U	521	ASN
1	U	524	GLN
1	U	543	GLN
1	U	544	ASN
1	U	564	GLN
1	U	615	GLN
1	U	649	HIS
1	U	653	GLN
1	U	714	ASN
1	V	235	HIS
1	V	276	ASN
1	V	323	ASN
1	V	341	ASN
1	V	347	GLN
1	V	413	ASN
1	V	433	ASN
1	V	434	GLN
1	V	502	ASN
1	V	521	ASN
1	V	524	GLN
1	V	543	GLN
1	V	544	ASN
1	V	564	GLN
1	V	615	GLN
1	V	649	HIS
1	V	653	GLN
1	V	714	ASN
1	W	235	HIS
1	W	276	ASN
1	W	323	ASN
1	W	341	ASN
1	W	347	GLN
1	W	413	ASN
1	W	427	HIS
1	W	433	ASN
1	W	434	GLN
1	W	502	ASN
1	W	521	ASN
1	W	524	GLN
1	W	543	GLN
1	W	544	ASN

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Mol	Chain	Res	Type
1	W	564	GLN
1	W	615	GLN
1	W	649	HIS
1	W	653	GLN
1	W	714	ASN
1	X	235	HIS
1	X	274	ASN
1	X	276	ASN
1	X	323	ASN
1	X	341	ASN
1	X	347	GLN
1	X	413	ASN
1	X	427	HIS
1	X	433	ASN
1	X	434	GLN
1	X	502	ASN
1	X	521	ASN
1	X	524	GLN
1	X	543	GLN
1	X	544	ASN
1	X	564	GLN
1	X	615	GLN
1	X	649	HIS
1	X	653	GLN
1	X	714	ASN
1	Y	235	HIS
1	Y	274	ASN
1	Y	276	ASN
1	Y	323	ASN
1	Y	341	ASN
1	Y	347	GLN
1	Y	413	ASN
1	Y	427	HIS
1	Y	433	ASN
1	Y	434	GLN
1	Y	502	ASN
1	Y	521	ASN
1	Y	524	GLN
1	Y	543	GLN
1	Y	544	ASN
1	Y	564	GLN
1	Y	592	GLN

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Mol	Chain	Res	Type
1	Y	615	GLN
1	Y	649	HIS
1	Y	653	GLN
1	Y	714	ASN
1	Z	235	HIS
1	Z	276	ASN
1	Z	323	ASN
1	Z	341	ASN
1	Z	347	GLN
1	Z	413	ASN
1	Z	427	HIS
1	Z	433	ASN
1	Z	434	GLN
1	Z	502	ASN
1	Z	521	ASN
1	Z	524	GLN
1	Z	543	GLN
1	Z	544	ASN
1	Z	564	GLN
1	Z	592	GLN
1	Z	615	GLN
1	Z	649	HIS
1	Z	653	GLN
1	Z	714	ASN
1	a	235	HIS
1	a	276	ASN
1	a	323	ASN
1	a	341	ASN
1	a	347	GLN
1	a	413	ASN
1	a	433	ASN
1	a	434	GLN
1	a	502	ASN
1	a	521	ASN
1	a	524	GLN
1	a	543	GLN
1	a	544	ASN
1	a	564	GLN
1	a	615	GLN
1	a	649	HIS
1	a	653	GLN
1	a	714	ASN

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Mol	Chain	Res	Type
1	b	235	HIS
1	b	276	ASN
1	b	323	ASN
1	b	341	ASN
1	b	347	GLN
1	b	413	ASN
1	b	427	HIS
1	b	433	ASN
1	b	434	GLN
1	b	502	ASN
1	b	521	ASN
1	b	524	GLN
1	b	543	GLN
1	b	544	ASN
1	b	564	GLN
1	b	615	GLN
1	b	649	HIS
1	b	653	GLN
1	b	714	ASN
1	c	235	HIS
1	c	276	ASN
1	c	323	ASN
1	c	341	ASN
1	c	347	GLN
1	c	413	ASN
1	c	433	ASN
1	c	434	GLN
1	c	502	ASN
1	c	521	ASN
1	c	524	GLN
1	c	543	GLN
1	c	544	ASN
1	c	564	GLN
1	c	615	GLN
1	c	649	HIS
1	c	653	GLN
1	c	714	ASN
1	d	235	HIS
1	d	276	ASN
1	d	323	ASN
1	d	341	ASN
1	d	347	GLN

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Mol	Chain	Res	Type
1	d	413	ASN
1	d	427	HIS
1	d	433	ASN
1	d	434	GLN
1	d	502	ASN
1	d	521	ASN
1	d	524	GLN
1	d	543	GLN
1	d	544	ASN
1	d	564	GLN
1	d	615	GLN
1	d	649	HIS
1	d	653	GLN
1	d	714	ASN
1	e	235	HIS
1	e	276	ASN
1	e	323	ASN
1	e	341	ASN
1	e	347	GLN
1	e	413	ASN
1	e	433	ASN
1	e	434	GLN
1	e	502	ASN
1	e	521	ASN
1	e	524	GLN
1	e	543	GLN
1	e	544	ASN
1	e	564	GLN
1	e	615	GLN
1	e	649	HIS
1	e	653	GLN
1	e	714	ASN
1	f	235	HIS
1	f	276	ASN
1	f	323	ASN
1	f	341	ASN
1	f	347	GLN
1	f	413	ASN
1	f	427	HIS
1	f	433	ASN
1	f	434	GLN
1	f	502	ASN

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Mol	Chain	Res	Type
1	f	521	ASN
1	f	524	GLN
1	f	543	GLN
1	f	544	ASN
1	f	564	GLN
1	f	615	GLN
1	f	649	HIS
1	f	653	GLN
1	f	714	ASN
1	g	235	HIS
1	g	276	ASN
1	g	323	ASN
1	g	341	ASN
1	g	347	GLN
1	g	413	ASN
1	g	427	HIS
1	g	433	ASN
1	g	434	GLN
1	g	502	ASN
1	g	521	ASN
1	g	524	GLN
1	g	543	GLN
1	g	544	ASN
1	g	564	GLN
1	g	615	GLN
1	g	649	HIS
1	g	653	GLN
1	g	714	ASN
1	h	235	HIS
1	h	276	ASN
1	h	323	ASN
1	h	341	ASN
1	h	347	GLN
1	h	413	ASN
1	h	427	HIS
1	h	433	ASN
1	h	434	GLN
1	h	502	ASN
1	h	521	ASN
1	h	524	GLN
1	h	543	GLN
1	h	544	ASN

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Mol	Chain	Res	Type
1	h	564	GLN
1	h	615	GLN
1	h	649	HIS
1	h	653	GLN
1	h	714	ASN
1	i	235	HIS
1	i	276	ASN
1	i	323	ASN
1	i	341	ASN
1	i	347	GLN
1	i	413	ASN
1	i	427	HIS
1	i	433	ASN
1	i	434	GLN
1	i	502	ASN
1	i	524	GLN
1	i	543	GLN
1	i	544	ASN
1	i	564	GLN
1	i	615	GLN
1	i	649	HIS
1	i	653	GLN
1	i	714	ASN
1	j	235	HIS
1	j	276	ASN
1	j	323	ASN
1	j	341	ASN
1	j	347	GLN
1	j	413	ASN
1	j	433	ASN
1	j	434	GLN
1	j	502	ASN
1	j	521	ASN
1	j	524	GLN
1	j	543	GLN
1	j	544	ASN
1	j	564	GLN
1	j	615	GLN
1	j	649	HIS
1	j	653	GLN
1	j	714	ASN
1	k	235	HIS

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Mol	Chain	Res	Type
1	k	274	ASN
1	k	276	ASN
1	k	323	ASN
1	k	341	ASN
1	k	347	GLN
1	k	413	ASN
1	k	427	HIS
1	k	433	ASN
1	k	434	GLN
1	k	502	ASN
1	k	521	ASN
1	k	524	GLN
1	k	543	GLN
1	k	544	ASN
1	k	564	GLN
1	k	615	GLN
1	k	649	HIS
1	k	653	GLN
1	k	714	ASN
1	l	235	HIS
1	l	276	ASN
1	l	323	ASN
1	l	341	ASN
1	l	347	GLN
1	l	413	ASN
1	l	427	HIS
1	l	433	ASN
1	l	434	GLN
1	l	502	ASN
1	l	521	ASN
1	l	524	GLN
1	l	543	GLN
1	l	544	ASN
1	l	564	GLN
1	l	615	GLN
1	l	649	HIS
1	l	653	GLN
1	l	714	ASN
1	m	235	HIS
1	m	276	ASN
1	m	323	ASN
1	m	341	ASN

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Mol	Chain	Res	Type
1	m	347	GLN
1	m	413	ASN
1	m	427	HIS
1	m	433	ASN
1	m	434	GLN
1	m	502	ASN
1	m	521	ASN
1	m	524	GLN
1	m	543	GLN
1	m	544	ASN
1	m	564	GLN
1	m	615	GLN
1	m	649	HIS
1	m	653	GLN
1	m	714	ASN
1	n	235	HIS
1	n	276	ASN
1	n	323	ASN
1	n	341	ASN
1	n	347	GLN
1	n	413	ASN
1	n	427	HIS
1	n	433	ASN
1	n	434	GLN
1	n	502	ASN
1	n	521	ASN
1	n	524	GLN
1	n	543	GLN
1	n	544	ASN
1	n	564	GLN
1	n	615	GLN
1	n	649	HIS
1	n	653	GLN
1	n	714	ASN
1	o	235	HIS
1	o	274	ASN
1	o	276	ASN
1	o	323	ASN
1	o	341	ASN
1	o	347	GLN
1	o	413	ASN
1	o	433	ASN

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Mol	Chain	Res	Type
1	o	434	GLN
1	o	502	ASN
1	o	521	ASN
1	o	524	GLN
1	o	543	GLN
1	o	544	ASN
1	o	564	GLN
1	o	615	GLN
1	o	649	HIS
1	o	653	GLN
1	o	714	ASN
1	p	235	HIS
1	p	276	ASN
1	p	323	ASN
1	p	341	ASN
1	p	347	GLN
1	p	413	ASN
1	p	433	ASN
1	p	434	GLN
1	p	502	ASN
1	p	521	ASN
1	p	524	GLN
1	p	543	GLN
1	p	544	ASN
1	p	564	GLN
1	p	615	GLN
1	p	649	HIS
1	p	653	GLN
1	p	714	ASN
1	q	235	HIS
1	q	276	ASN
1	q	323	ASN
1	q	341	ASN
1	q	347	GLN
1	q	413	ASN
1	q	427	HIS
1	q	433	ASN
1	q	434	GLN
1	q	502	ASN
1	q	521	ASN
1	q	524	GLN
1	q	543	GLN

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Mol	Chain	Res	Type
1	q	544	ASN
1	q	564	GLN
1	q	615	GLN
1	q	649	HIS
1	q	653	GLN
1	q	714	ASN
1	r	235	HIS
1	r	276	ASN
1	r	323	ASN
1	r	341	ASN
1	r	347	GLN
1	r	413	ASN
1	r	427	HIS
1	r	433	ASN
1	r	434	GLN
1	r	502	ASN
1	r	521	ASN
1	r	524	GLN
1	r	543	GLN
1	r	544	ASN
1	r	564	GLN
1	r	615	GLN
1	r	649	HIS
1	r	653	GLN
1	r	714	ASN
1	s	235	HIS
1	s	276	ASN
1	s	323	ASN
1	s	341	ASN
1	s	347	GLN
1	s	413	ASN
1	s	427	HIS
1	s	433	ASN
1	s	434	GLN
1	s	502	ASN
1	s	521	ASN
1	s	524	GLN
1	s	543	GLN
1	s	544	ASN
1	s	564	GLN
1	s	615	GLN
1	s	649	HIS

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Mol	Chain	Res	Type
1	s	653	GLN
1	s	714	ASN
1	t	235	HIS
1	t	276	ASN
1	t	323	ASN
1	t	341	ASN
1	t	347	GLN
1	t	413	ASN
1	t	427	HIS
1	t	433	ASN
1	t	434	GLN
1	t	502	ASN
1	t	521	ASN
1	t	524	GLN
1	t	543	GLN
1	t	544	ASN
1	t	564	GLN
1	t	615	GLN
1	t	649	HIS
1	t	653	GLN
1	t	714	ASN
1	u	235	HIS
1	u	276	ASN
1	u	323	ASN
1	u	341	ASN
1	u	347	GLN
1	u	413	ASN
1	u	427	HIS
1	u	433	ASN
1	u	434	GLN
1	u	502	ASN
1	u	521	ASN
1	u	524	GLN
1	u	543	GLN
1	u	544	ASN
1	u	564	GLN
1	u	615	GLN
1	u	649	HIS
1	u	653	GLN
1	u	714	ASN
1	v	235	HIS
1	v	274	ASN

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Mol	Chain	Res	Type
1	v	276	ASN
1	v	323	ASN
1	v	341	ASN
1	v	347	GLN
1	v	413	ASN
1	v	433	ASN
1	v	434	GLN
1	v	502	ASN
1	v	521	ASN
1	v	524	GLN
1	v	543	GLN
1	v	544	ASN
1	v	564	GLN
1	v	615	GLN
1	v	649	HIS
1	v	653	GLN
1	v	714	ASN
1	w	235	HIS
1	w	276	ASN
1	w	323	ASN
1	w	341	ASN
1	w	347	GLN
1	w	413	ASN
1	w	427	HIS
1	w	433	ASN
1	w	434	GLN
1	w	502	ASN
1	w	521	ASN
1	w	524	GLN
1	w	543	GLN
1	w	544	ASN
1	w	564	GLN
1	w	615	GLN
1	w	649	HIS
1	w	653	GLN
1	w	714	ASN
1	x	235	HIS
1	x	274	ASN
1	x	276	ASN
1	x	323	ASN
1	x	341	ASN
1	x	347	GLN

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Mol	Chain	Res	Type
1	x	413	ASN
1	x	427	HIS
1	x	433	ASN
1	x	434	GLN
1	x	502	ASN
1	x	521	ASN
1	x	524	GLN
1	x	543	GLN
1	x	544	ASN
1	x	564	GLN
1	x	615	GLN
1	x	649	HIS
1	x	653	GLN
1	x	714	ASN
1	y	235	HIS
1	y	276	ASN
1	y	323	ASN
1	y	341	ASN
1	y	347	GLN
1	y	413	ASN
1	y	427	HIS
1	y	433	ASN
1	y	434	GLN
1	y	502	ASN
1	y	521	ASN
1	y	524	GLN
1	y	543	GLN
1	y	544	ASN
1	y	564	GLN
1	y	615	GLN
1	y	649	HIS
1	y	653	GLN
1	y	714	ASN
1	z	235	HIS
1	z	276	ASN
1	z	323	ASN
1	z	341	ASN
1	z	347	GLN
1	z	413	ASN
1	z	427	HIS
1	z	433	ASN
1	z	434	GLN

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Mol	Chain	Res	Type
1	z	502	ASN
1	z	521	ASN
1	z	524	GLN
1	z	543	GLN
1	z	544	ASN
1	z	564	GLN
1	z	615	GLN
1	z	649	HIS
1	z	653	GLN
1	z	714	ASN
1	1	235	HIS
1	1	276	ASN
1	1	323	ASN
1	1	341	ASN
1	1	347	GLN
1	1	413	ASN
1	1	433	ASN
1	1	434	GLN
1	1	502	ASN
1	1	521	ASN
1	1	524	GLN
1	1	543	GLN
1	1	544	ASN
1	1	564	GLN
1	1	615	GLN
1	1	649	HIS
1	1	653	GLN
1	1	714	ASN
1	2	235	HIS
1	2	276	ASN
1	2	323	ASN
1	2	341	ASN
1	2	347	GLN
1	2	413	ASN
1	2	433	ASN
1	2	434	GLN
1	2	502	ASN
1	2	521	ASN
1	2	524	GLN
1	2	543	GLN
1	2	544	ASN
1	2	564	GLN

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Mol	Chain	Res	Type
1	2	615	GLN
1	2	649	HIS
1	2	653	GLN
1	2	714	ASN
1	3	235	HIS
1	3	276	ASN
1	3	323	ASN
1	3	341	ASN
1	3	347	GLN
1	3	413	ASN
1	3	433	ASN
1	3	434	GLN
1	3	502	ASN
1	3	521	ASN
1	3	524	GLN
1	3	543	GLN
1	3	544	ASN
1	3	564	GLN
1	3	615	GLN
1	3	649	HIS
1	3	653	GLN
1	3	714	ASN
1	4	235	HIS
1	4	276	ASN
1	4	323	ASN
1	4	341	ASN
1	4	347	GLN
1	4	413	ASN
1	4	433	ASN
1	4	434	GLN
1	4	502	ASN
1	4	521	ASN
1	4	524	GLN
1	4	543	GLN
1	4	544	ASN
1	4	564	GLN
1	4	615	GLN
1	4	649	HIS
1	4	653	GLN
1	4	714	ASN
1	5	235	HIS
1	5	276	ASN

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Mol	Chain	Res	Type
1	5	323	ASN
1	5	341	ASN
1	5	347	GLN
1	5	413	ASN
1	5	427	HIS
1	5	433	ASN
1	5	434	GLN
1	5	502	ASN
1	5	521	ASN
1	5	524	GLN
1	5	543	GLN
1	5	544	ASN
1	5	564	GLN
1	5	615	GLN
1	5	649	HIS
1	5	653	GLN
1	5	714	ASN
1	6	235	HIS
1	6	276	ASN
1	6	323	ASN
1	6	341	ASN
1	6	347	GLN
1	6	413	ASN
1	6	427	HIS
1	6	433	ASN
1	6	434	GLN
1	6	502	ASN
1	6	521	ASN
1	6	524	GLN
1	6	543	GLN
1	6	544	ASN
1	6	564	GLN
1	6	615	GLN
1	6	649	HIS
1	6	653	GLN
1	6	714	ASN
1	7	235	HIS
1	7	274	ASN
1	7	276	ASN
1	7	323	ASN
1	7	341	ASN
1	7	347	GLN

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Mol	Chain	Res	Type
1	7	413	ASN
1	7	427	HIS
1	7	433	ASN
1	7	434	GLN
1	7	502	ASN
1	7	521	ASN
1	7	524	GLN
1	7	543	GLN
1	7	544	ASN
1	7	564	GLN
1	7	592	GLN
1	7	615	GLN
1	7	649	HIS
1	7	653	GLN
1	7	714	ASN
1	8	235	HIS
1	8	276	ASN
1	8	323	ASN
1	8	341	ASN
1	8	347	GLN
1	8	413	ASN
1	8	427	HIS
1	8	433	ASN
1	8	434	GLN
1	8	502	ASN
1	8	521	ASN
1	8	524	GLN
1	8	543	GLN
1	8	544	ASN
1	8	564	GLN
1	8	592	GLN
1	8	615	GLN
1	8	649	HIS
1	8	653	GLN
1	8	714	ASN

5.3.3 RNA ⓘ

There are no RNA molecules in this entry.

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

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

5.5 Carbohydrates [i](#)

There are no oligosaccharides in this entry.

5.6 Ligand geometry [i](#)

60 ligands are modelled in this entry.

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

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	$\# Z > 2$	Counts	RMSZ	$\# Z > 2$
2	D5M	F	801	-	20,23,24	0.55	0	28,33,36	0.35	0
2	D5M	S	801	-	20,23,24	0.55	0	28,33,36	0.34	0
2	D5M	o	801	-	20,23,24	0.55	0	28,33,36	0.35	0
2	D5M	Y	801	-	20,23,24	0.55	0	28,33,36	0.34	0
2	D5M	B	801	-	20,23,24	0.55	0	28,33,36	0.35	0
2	D5M	V	801	-	20,23,24	0.55	0	28,33,36	0.35	0
2	D5M	I	801	-	20,23,24	0.56	0	28,33,36	0.34	0
2	D5M	d	801	-	20,23,24	0.55	0	28,33,36	0.35	0
2	D5M	O	801	-	20,23,24	0.55	0	28,33,36	0.35	0
2	D5M	g	801	-	20,23,24	0.55	0	28,33,36	0.35	0
2	D5M	m	801	-	20,23,24	0.55	0	28,33,36	0.35	0
2	D5M	C	801	-	20,23,24	0.54	0	28,33,36	0.35	0
2	D5M	J	801	-	20,23,24	0.55	0	28,33,36	0.35	0
2	D5M	L	801	-	20,23,24	0.55	0	28,33,36	0.35	0
2	D5M	1	801	-	20,23,24	0.55	0	28,33,36	0.34	0
2	D5M	h	801	-	20,23,24	0.56	0	28,33,36	0.34	0
2	D5M	s	801	-	20,23,24	0.55	0	28,33,36	0.35	0
2	D5M	y	801	-	20,23,24	0.54	0	28,33,36	0.35	0
2	D5M	z	801	-	20,23,24	0.56	0	28,33,36	0.35	0
2	D5M	7	801	-	20,23,24	0.56	0	28,33,36	0.35	0
2	D5M	8	801	-	20,23,24	0.55	0	28,33,36	0.35	0
2	D5M	Q	801	-	20,23,24	0.55	0	28,33,36	0.35	0

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
2	D5M	4	801	-	20,23,24	0.55	0	28,33,36	0.34	0
2	D5M	t	801	-	20,23,24	0.55	0	28,33,36	0.35	0
2	D5M	j	801	-	20,23,24	0.55	0	28,33,36	0.34	0
2	D5M	q	801	-	20,23,24	0.54	0	28,33,36	0.34	0
2	D5M	r	801	-	20,23,24	0.55	0	28,33,36	0.35	0
2	D5M	n	801	-	20,23,24	0.55	0	28,33,36	0.35	0
2	D5M	i	801	-	20,23,24	0.56	0	28,33,36	0.35	0
2	D5M	u	801	-	20,23,24	0.55	0	28,33,36	0.34	0
2	D5M	6	801	-	20,23,24	0.55	0	28,33,36	0.35	0
2	D5M	p	801	-	20,23,24	0.54	0	28,33,36	0.35	0
2	D5M	R	801	-	20,23,24	0.55	0	28,33,36	0.34	0
2	D5M	a	801	-	20,23,24	0.54	0	28,33,36	0.35	0
2	D5M	v	801	-	20,23,24	0.54	0	28,33,36	0.35	0
2	D5M	f	801	-	20,23,24	0.54	0	28,33,36	0.35	0
2	D5M	P	801	-	20,23,24	0.55	0	28,33,36	0.34	0
2	D5M	U	801	-	20,23,24	0.55	0	28,33,36	0.35	0
2	D5M	e	801	-	20,23,24	0.55	0	28,33,36	0.34	0
2	D5M	A	801	-	20,23,24	0.55	0	28,33,36	0.35	0
2	D5M	D	801	-	20,23,24	0.55	0	28,33,36	0.35	0
2	D5M	H	801	-	20,23,24	0.55	0	28,33,36	0.35	0
2	D5M	E	801	-	20,23,24	0.56	0	28,33,36	0.34	0
2	D5M	W	801	-	20,23,24	0.55	0	28,33,36	0.34	0
2	D5M	c	801	-	20,23,24	0.55	0	28,33,36	0.34	0
2	D5M	l	801	-	20,23,24	0.55	0	28,33,36	0.34	0
2	D5M	3	801	-	20,23,24	0.55	0	28,33,36	0.35	0
2	D5M	G	801	-	20,23,24	0.55	0	28,33,36	0.35	0
2	D5M	X	801	-	20,23,24	0.56	0	28,33,36	0.34	0
2	D5M	5	801	-	20,23,24	0.55	0	28,33,36	0.35	0
2	D5M	K	801	-	20,23,24	0.56	0	28,33,36	0.35	0
2	D5M	M	801	-	20,23,24	0.55	0	28,33,36	0.35	0
2	D5M	k	801	-	20,23,24	0.55	0	28,33,36	0.35	0
2	D5M	b	801	-	20,23,24	0.55	0	28,33,36	0.35	0
2	D5M	Z	801	-	20,23,24	0.56	0	28,33,36	0.35	0
2	D5M	w	801	-	20,23,24	0.55	0	28,33,36	0.34	0
2	D5M	x	801	-	20,23,24	0.55	0	28,33,36	0.35	0
2	D5M	N	801	-	20,23,24	0.55	0	28,33,36	0.34	0
2	D5M	2	801	-	20,23,24	0.55	0	28,33,36	0.35	0
2	D5M	T	801	-	20,23,24	0.55	0	28,33,36	0.35	0

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

Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
2	D5M	F	801	-	-	2/7/21/22	0/3/3/3
2	D5M	S	801	-	-	2/7/21/22	0/3/3/3
2	D5M	o	801	-	-	2/7/21/22	0/3/3/3
2	D5M	Y	801	-	-	2/7/21/22	0/3/3/3
2	D5M	B	801	-	-	2/7/21/22	0/3/3/3
2	D5M	V	801	-	-	2/7/21/22	0/3/3/3
2	D5M	I	801	-	-	2/7/21/22	0/3/3/3
2	D5M	d	801	-	-	2/7/21/22	0/3/3/3
2	D5M	O	801	-	-	2/7/21/22	0/3/3/3
2	D5M	g	801	-	-	2/7/21/22	0/3/3/3
2	D5M	m	801	-	-	2/7/21/22	0/3/3/3
2	D5M	C	801	-	-	2/7/21/22	0/3/3/3
2	D5M	J	801	-	-	2/7/21/22	0/3/3/3
2	D5M	L	801	-	-	2/7/21/22	0/3/3/3
2	D5M	l	801	-	-	2/7/21/22	0/3/3/3
2	D5M	h	801	-	-	2/7/21/22	0/3/3/3
2	D5M	s	801	-	-	2/7/21/22	0/3/3/3
2	D5M	y	801	-	-	2/7/21/22	0/3/3/3
2	D5M	z	801	-	-	2/7/21/22	0/3/3/3
2	D5M	7	801	-	-	2/7/21/22	0/3/3/3
2	D5M	8	801	-	-	2/7/21/22	0/3/3/3
2	D5M	Q	801	-	-	2/7/21/22	0/3/3/3
2	D5M	4	801	-	-	2/7/21/22	0/3/3/3
2	D5M	t	801	-	-	2/7/21/22	0/3/3/3
2	D5M	j	801	-	-	2/7/21/22	0/3/3/3
2	D5M	q	801	-	-	2/7/21/22	0/3/3/3
2	D5M	r	801	-	-	2/7/21/22	0/3/3/3
2	D5M	n	801	-	-	2/7/21/22	0/3/3/3
2	D5M	i	801	-	-	2/7/21/22	0/3/3/3
2	D5M	u	801	-	-	2/7/21/22	0/3/3/3
2	D5M	6	801	-	-	2/7/21/22	0/3/3/3
2	D5M	p	801	-	-	2/7/21/22	0/3/3/3
2	D5M	R	801	-	-	2/7/21/22	0/3/3/3
2	D5M	a	801	-	-	2/7/21/22	0/3/3/3
2	D5M	v	801	-	-	2/7/21/22	0/3/3/3

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
2	D5M	f	801	-	-	2/7/21/22	0/3/3/3
2	D5M	P	801	-	-	2/7/21/22	0/3/3/3
2	D5M	U	801	-	-	2/7/21/22	0/3/3/3
2	D5M	e	801	-	-	2/7/21/22	0/3/3/3
2	D5M	A	801	-	-	2/7/21/22	0/3/3/3
2	D5M	D	801	-	-	2/7/21/22	0/3/3/3
2	D5M	H	801	-	-	2/7/21/22	0/3/3/3
2	D5M	E	801	-	-	2/7/21/22	0/3/3/3
2	D5M	W	801	-	-	2/7/21/22	0/3/3/3
2	D5M	c	801	-	-	2/7/21/22	0/3/3/3
2	D5M	l	801	-	-	2/7/21/22	0/3/3/3
2	D5M	3	801	-	-	2/7/21/22	0/3/3/3
2	D5M	G	801	-	-	2/7/21/22	0/3/3/3
2	D5M	X	801	-	-	2/7/21/22	0/3/3/3
2	D5M	5	801	-	-	2/7/21/22	0/3/3/3
2	D5M	K	801	-	-	2/7/21/22	0/3/3/3
2	D5M	M	801	-	-	2/7/21/22	0/3/3/3
2	D5M	k	801	-	-	2/7/21/22	0/3/3/3
2	D5M	b	801	-	-	2/7/21/22	0/3/3/3
2	D5M	Z	801	-	-	2/7/21/22	0/3/3/3
2	D5M	w	801	-	-	2/7/21/22	0/3/3/3
2	D5M	x	801	-	-	2/7/21/22	0/3/3/3
2	D5M	N	801	-	-	2/7/21/22	0/3/3/3
2	D5M	2	801	-	-	2/7/21/22	0/3/3/3
2	D5M	T	801	-	-	2/7/21/22	0/3/3/3

There are no bond length outliers.

There are no bond angle outliers.

There are no chirality outliers.

All (120) torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
2	A	801	D5M	C4'-C5'-O5'-P
2	B	801	D5M	C4'-C5'-O5'-P
2	C	801	D5M	C4'-C5'-O5'-P

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Mol	Chain	Res	Type	Atoms
2	D	801	D5M	C4'-C5'-O5'-P
2	E	801	D5M	C4'-C5'-O5'-P
2	F	801	D5M	C4'-C5'-O5'-P
2	G	801	D5M	C4'-C5'-O5'-P
2	H	801	D5M	C4'-C5'-O5'-P
2	I	801	D5M	C4'-C5'-O5'-P
2	J	801	D5M	C4'-C5'-O5'-P
2	K	801	D5M	C4'-C5'-O5'-P
2	L	801	D5M	C4'-C5'-O5'-P
2	M	801	D5M	C4'-C5'-O5'-P
2	N	801	D5M	C4'-C5'-O5'-P
2	O	801	D5M	C4'-C5'-O5'-P
2	P	801	D5M	C4'-C5'-O5'-P
2	Q	801	D5M	C4'-C5'-O5'-P
2	R	801	D5M	C4'-C5'-O5'-P
2	S	801	D5M	C4'-C5'-O5'-P
2	T	801	D5M	C4'-C5'-O5'-P
2	U	801	D5M	C4'-C5'-O5'-P
2	V	801	D5M	C4'-C5'-O5'-P
2	W	801	D5M	C4'-C5'-O5'-P
2	X	801	D5M	C4'-C5'-O5'-P
2	Y	801	D5M	C4'-C5'-O5'-P
2	Z	801	D5M	C4'-C5'-O5'-P
2	a	801	D5M	C4'-C5'-O5'-P
2	b	801	D5M	C4'-C5'-O5'-P
2	c	801	D5M	C4'-C5'-O5'-P
2	d	801	D5M	C4'-C5'-O5'-P
2	e	801	D5M	C4'-C5'-O5'-P
2	f	801	D5M	C4'-C5'-O5'-P
2	g	801	D5M	C4'-C5'-O5'-P
2	h	801	D5M	C4'-C5'-O5'-P
2	i	801	D5M	C4'-C5'-O5'-P
2	j	801	D5M	C4'-C5'-O5'-P
2	k	801	D5M	C4'-C5'-O5'-P
2	l	801	D5M	C4'-C5'-O5'-P
2	m	801	D5M	C4'-C5'-O5'-P
2	n	801	D5M	C4'-C5'-O5'-P
2	o	801	D5M	C4'-C5'-O5'-P
2	p	801	D5M	C4'-C5'-O5'-P
2	q	801	D5M	C4'-C5'-O5'-P
2	r	801	D5M	C4'-C5'-O5'-P
2	s	801	D5M	C4'-C5'-O5'-P

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Mol	Chain	Res	Type	Atoms
2	t	801	D5M	C4'-C5'-O5'-P
2	u	801	D5M	C4'-C5'-O5'-P
2	v	801	D5M	C4'-C5'-O5'-P
2	w	801	D5M	C4'-C5'-O5'-P
2	x	801	D5M	C4'-C5'-O5'-P
2	y	801	D5M	C4'-C5'-O5'-P
2	z	801	D5M	C4'-C5'-O5'-P
2	1	801	D5M	C4'-C5'-O5'-P
2	2	801	D5M	C4'-C5'-O5'-P
2	3	801	D5M	C4'-C5'-O5'-P
2	4	801	D5M	C4'-C5'-O5'-P
2	5	801	D5M	C4'-C5'-O5'-P
2	6	801	D5M	C4'-C5'-O5'-P
2	7	801	D5M	C4'-C5'-O5'-P
2	8	801	D5M	C4'-C5'-O5'-P
2	A	801	D5M	C3'-C4'-C5'-O5'
2	B	801	D5M	C3'-C4'-C5'-O5'
2	C	801	D5M	C3'-C4'-C5'-O5'
2	D	801	D5M	C3'-C4'-C5'-O5'
2	E	801	D5M	C3'-C4'-C5'-O5'
2	F	801	D5M	C3'-C4'-C5'-O5'
2	G	801	D5M	C3'-C4'-C5'-O5'
2	H	801	D5M	C3'-C4'-C5'-O5'
2	I	801	D5M	C3'-C4'-C5'-O5'
2	J	801	D5M	C3'-C4'-C5'-O5'
2	K	801	D5M	C3'-C4'-C5'-O5'
2	L	801	D5M	C3'-C4'-C5'-O5'
2	M	801	D5M	C3'-C4'-C5'-O5'
2	N	801	D5M	C3'-C4'-C5'-O5'
2	O	801	D5M	C3'-C4'-C5'-O5'
2	P	801	D5M	C3'-C4'-C5'-O5'
2	Q	801	D5M	C3'-C4'-C5'-O5'
2	R	801	D5M	C3'-C4'-C5'-O5'
2	S	801	D5M	C3'-C4'-C5'-O5'
2	T	801	D5M	C3'-C4'-C5'-O5'
2	U	801	D5M	C3'-C4'-C5'-O5'
2	V	801	D5M	C3'-C4'-C5'-O5'
2	W	801	D5M	C3'-C4'-C5'-O5'
2	X	801	D5M	C3'-C4'-C5'-O5'
2	Y	801	D5M	C3'-C4'-C5'-O5'
2	Z	801	D5M	C3'-C4'-C5'-O5'
2	a	801	D5M	C3'-C4'-C5'-O5'

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Mol	Chain	Res	Type	Atoms
2	b	801	D5M	C3'-C4'-C5'-O5'
2	c	801	D5M	C3'-C4'-C5'-O5'
2	d	801	D5M	C3'-C4'-C5'-O5'
2	e	801	D5M	C3'-C4'-C5'-O5'
2	f	801	D5M	C3'-C4'-C5'-O5'
2	g	801	D5M	C3'-C4'-C5'-O5'
2	h	801	D5M	C3'-C4'-C5'-O5'
2	i	801	D5M	C3'-C4'-C5'-O5'
2	j	801	D5M	C3'-C4'-C5'-O5'
2	k	801	D5M	C3'-C4'-C5'-O5'
2	l	801	D5M	C3'-C4'-C5'-O5'
2	m	801	D5M	C3'-C4'-C5'-O5'
2	n	801	D5M	C3'-C4'-C5'-O5'
2	o	801	D5M	C3'-C4'-C5'-O5'
2	p	801	D5M	C3'-C4'-C5'-O5'
2	q	801	D5M	C3'-C4'-C5'-O5'
2	r	801	D5M	C3'-C4'-C5'-O5'
2	s	801	D5M	C3'-C4'-C5'-O5'
2	t	801	D5M	C3'-C4'-C5'-O5'
2	u	801	D5M	C3'-C4'-C5'-O5'
2	v	801	D5M	C3'-C4'-C5'-O5'
2	w	801	D5M	C3'-C4'-C5'-O5'
2	x	801	D5M	C3'-C4'-C5'-O5'
2	y	801	D5M	C3'-C4'-C5'-O5'
2	z	801	D5M	C3'-C4'-C5'-O5'
2	1	801	D5M	C3'-C4'-C5'-O5'
2	2	801	D5M	C3'-C4'-C5'-O5'
2	3	801	D5M	C3'-C4'-C5'-O5'
2	4	801	D5M	C3'-C4'-C5'-O5'
2	5	801	D5M	C3'-C4'-C5'-O5'
2	6	801	D5M	C3'-C4'-C5'-O5'
2	7	801	D5M	C3'-C4'-C5'-O5'
2	8	801	D5M	C3'-C4'-C5'-O5'

There are no ring outliers.

60 monomers are involved in 185 short contacts:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
2	F	801	D5M	3	0
2	S	801	D5M	3	0
2	o	801	D5M	3	0
2	Y	801	D5M	3	0

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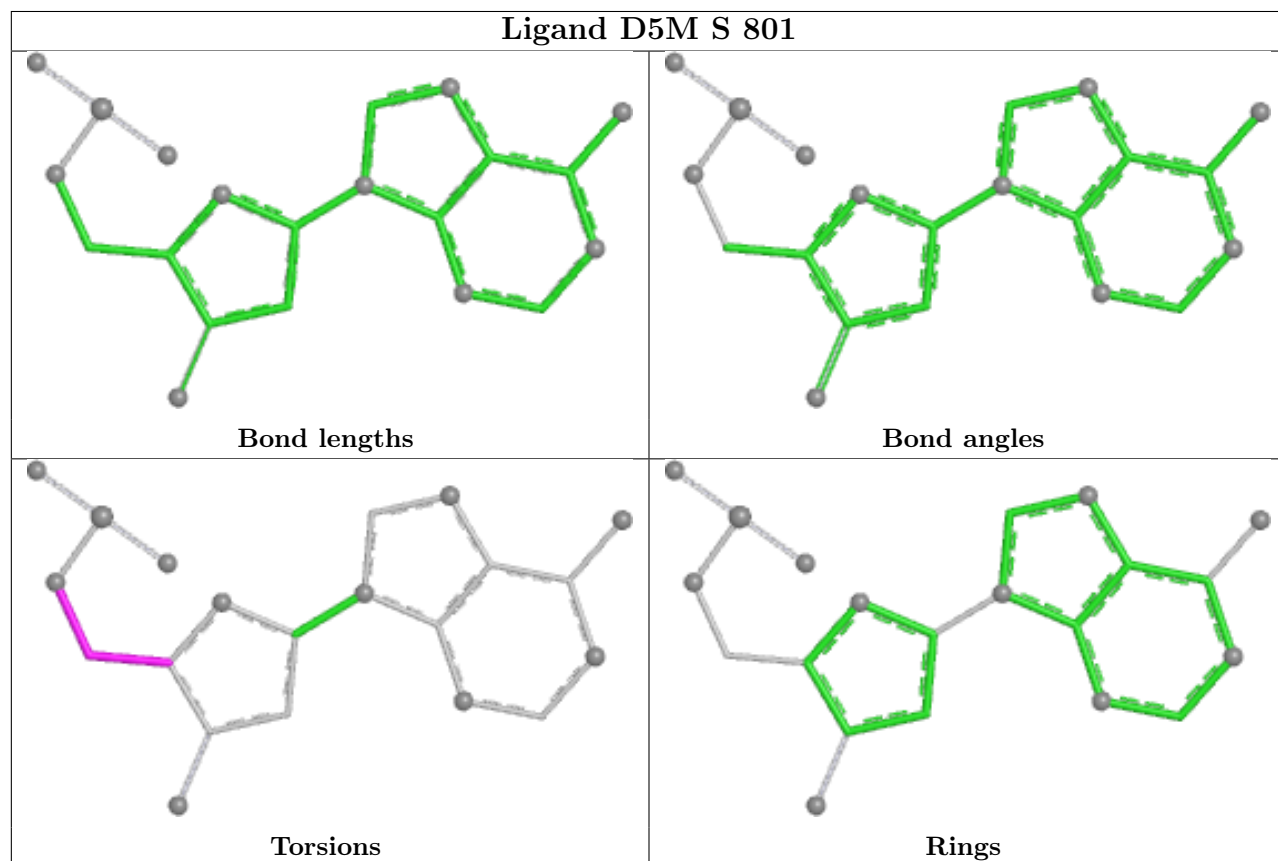
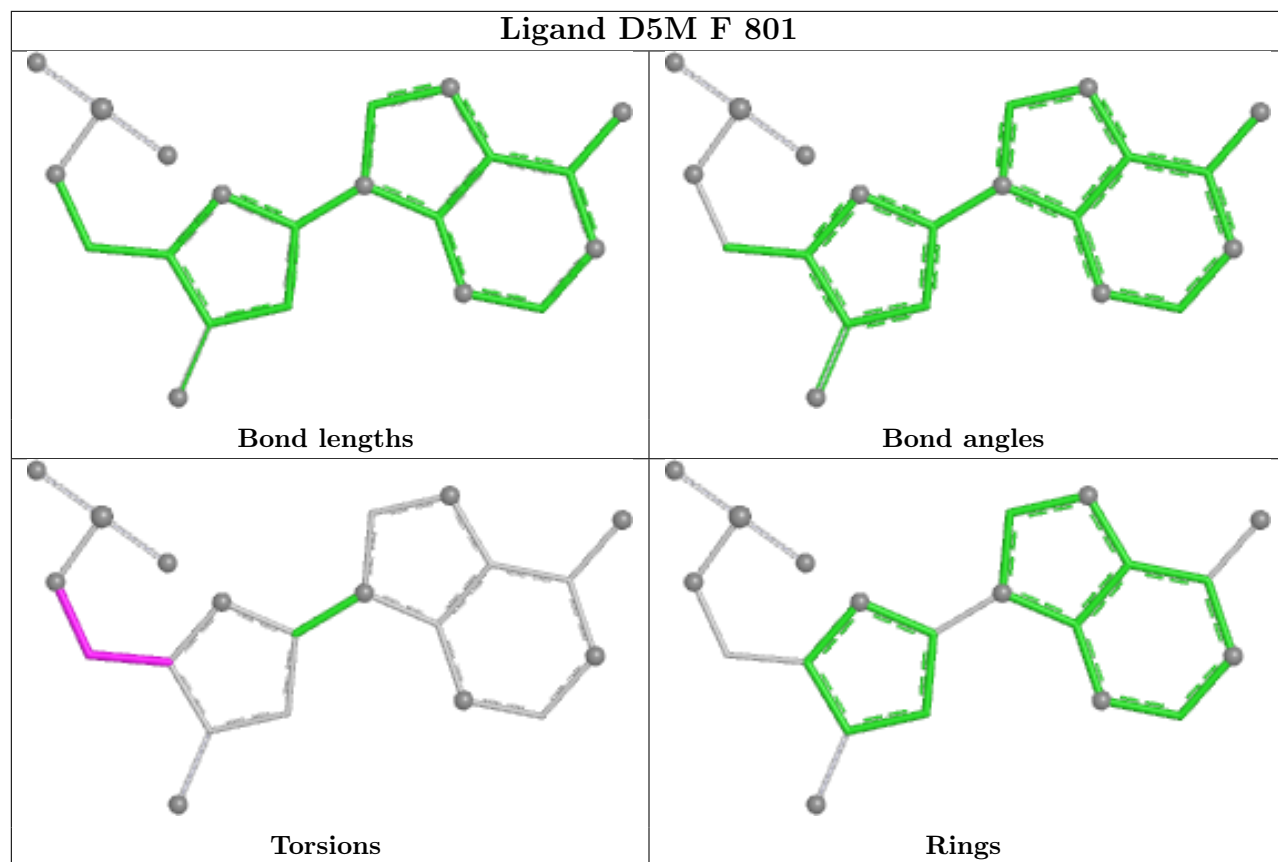
Mol	Chain	Res	Type	Clashes	Symm-Clashes
2	B	801	D5M	3	0
2	V	801	D5M	3	0
2	I	801	D5M	3	0
2	d	801	D5M	3	0
2	O	801	D5M	4	0
2	g	801	D5M	4	0
2	m	801	D5M	3	0
2	C	801	D5M	3	0
2	J	801	D5M	3	0
2	L	801	D5M	3	0
2	l	801	D5M	3	0
2	h	801	D5M	3	0
2	s	801	D5M	3	0
2	y	801	D5M	3	0
2	z	801	D5M	3	0
2	7	801	D5M	3	0
2	8	801	D5M	3	0
2	Q	801	D5M	3	0
2	4	801	D5M	3	0
2	t	801	D5M	3	0
2	j	801	D5M	3	0
2	q	801	D5M	3	0
2	r	801	D5M	3	0
2	n	801	D5M	3	0
2	i	801	D5M	3	0
2	u	801	D5M	3	0
2	6	801	D5M	3	0
2	p	801	D5M	3	0
2	R	801	D5M	3	0
2	a	801	D5M	3	0
2	v	801	D5M	3	0
2	f	801	D5M	4	0
2	P	801	D5M	3	0
2	U	801	D5M	3	0
2	e	801	D5M	3	0
2	A	801	D5M	3	0
2	D	801	D5M	3	0
2	H	801	D5M	3	0
2	E	801	D5M	3	0
2	W	801	D5M	3	0
2	c	801	D5M	3	0
2	l	801	D5M	4	0

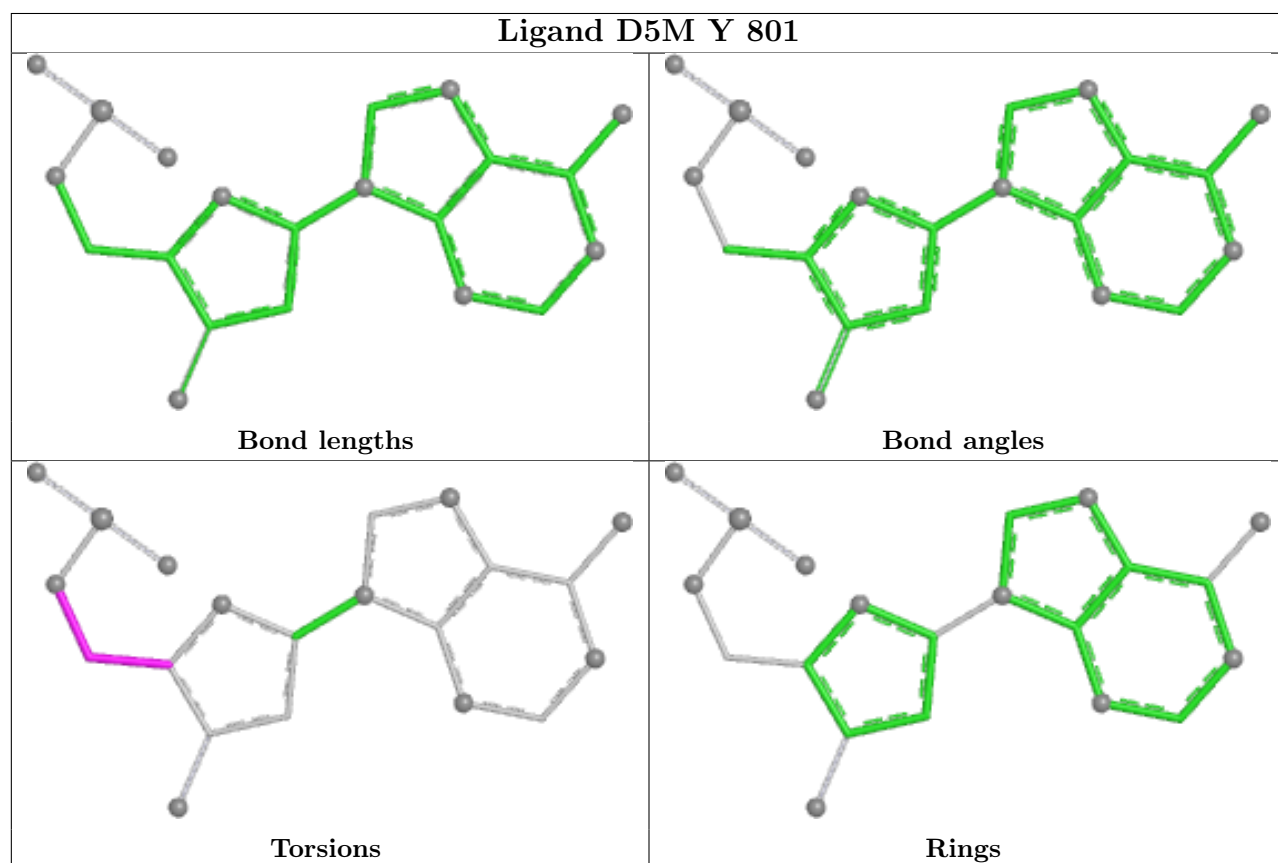
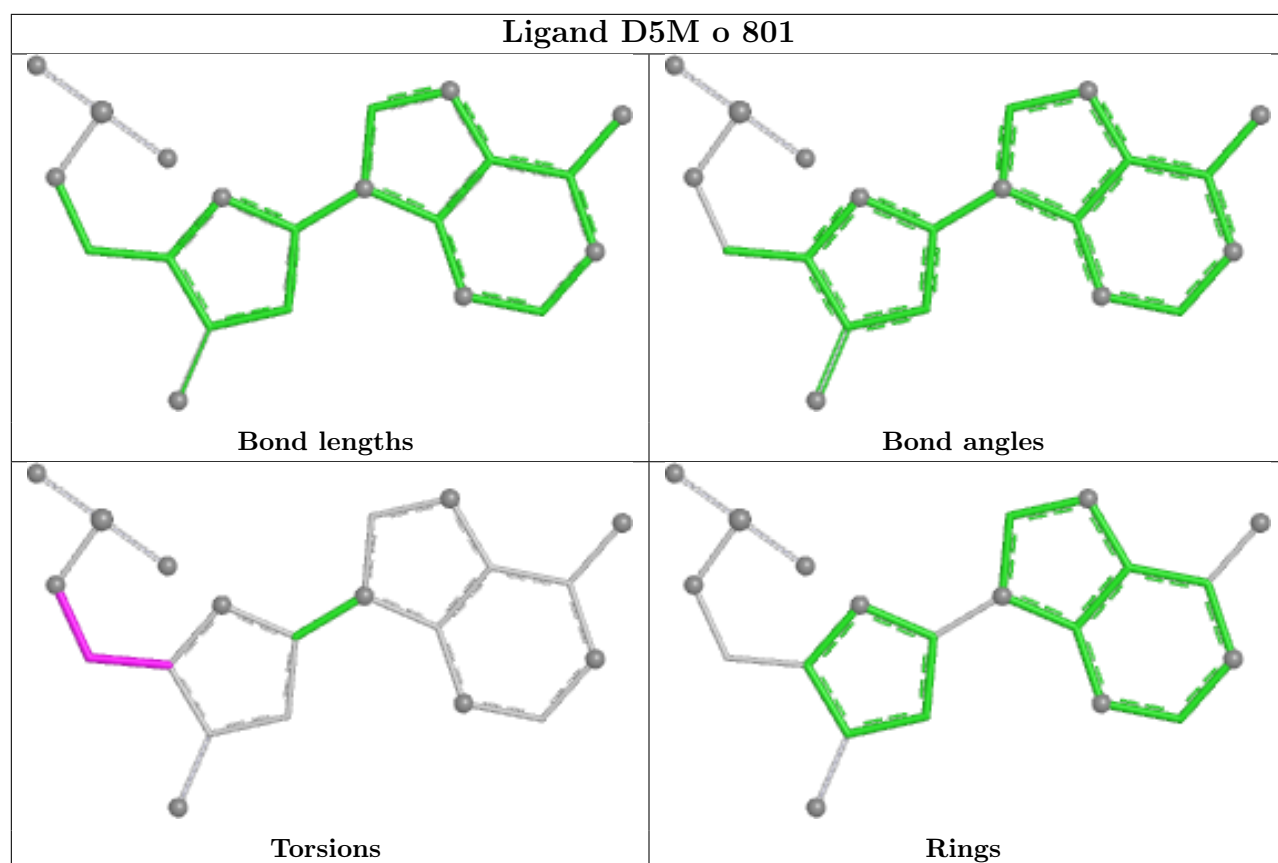
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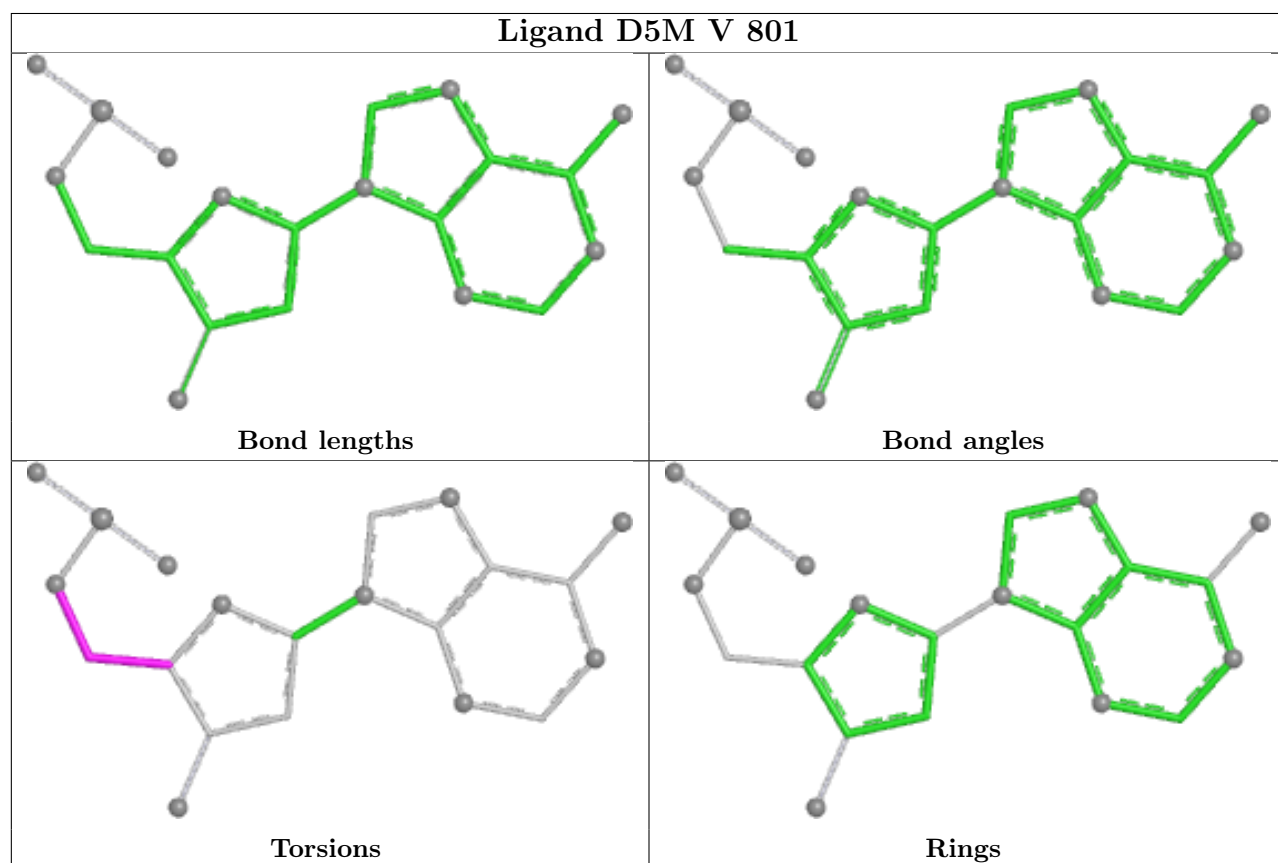
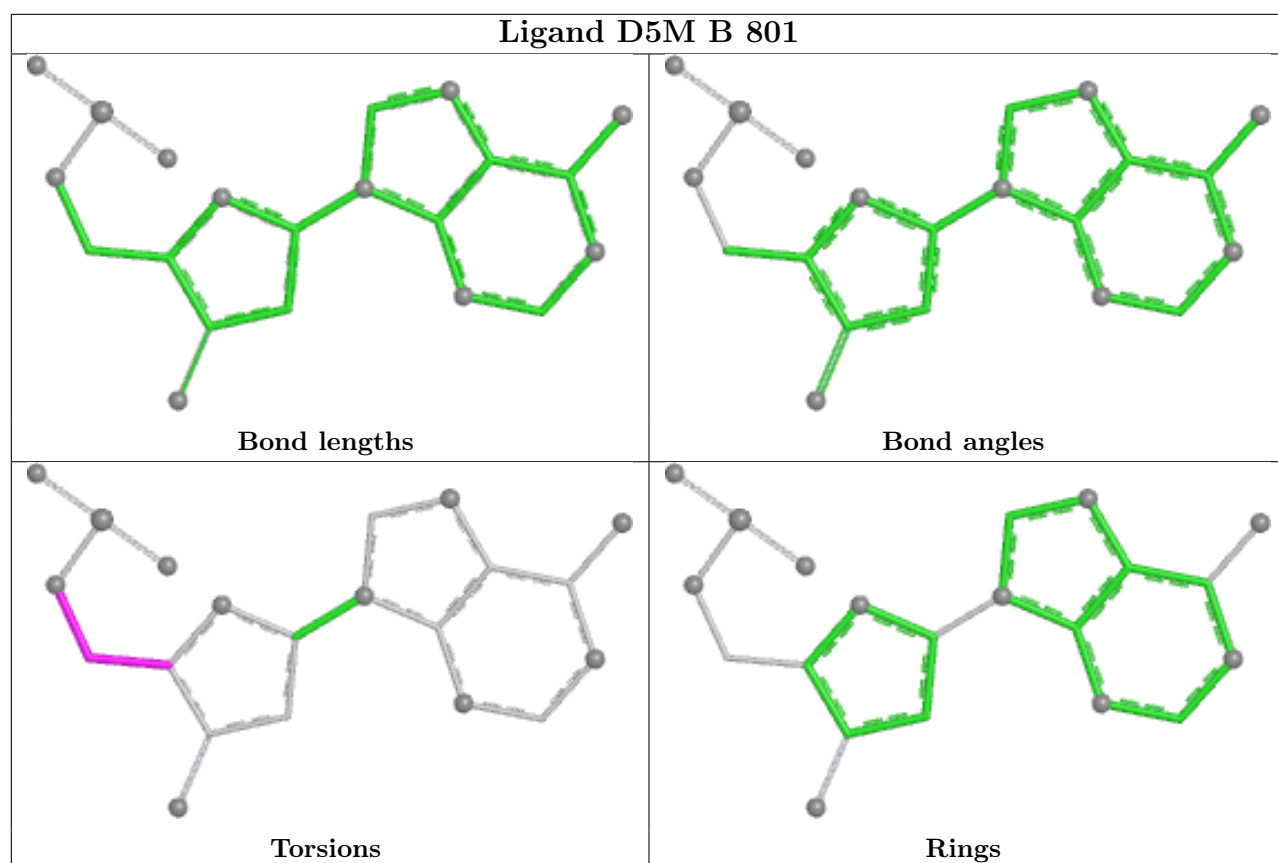
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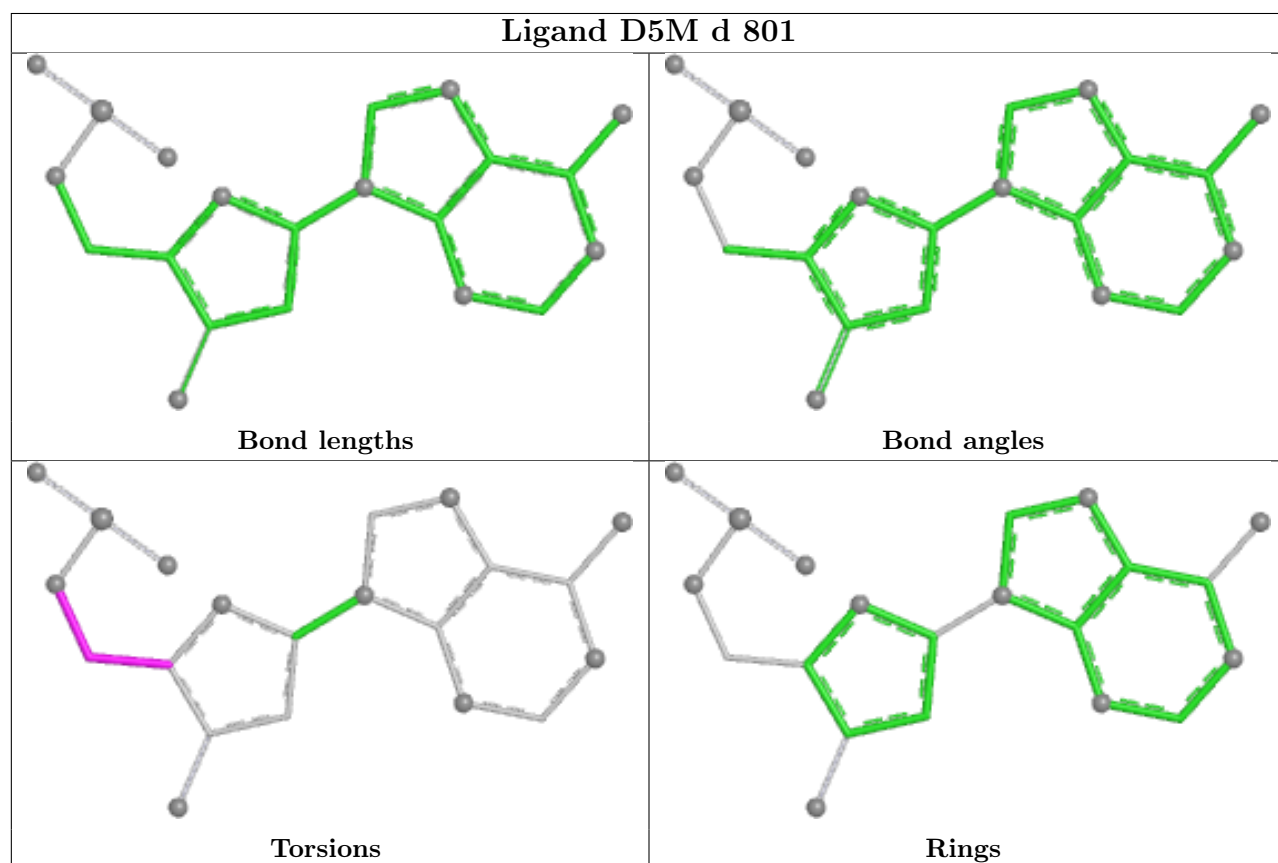
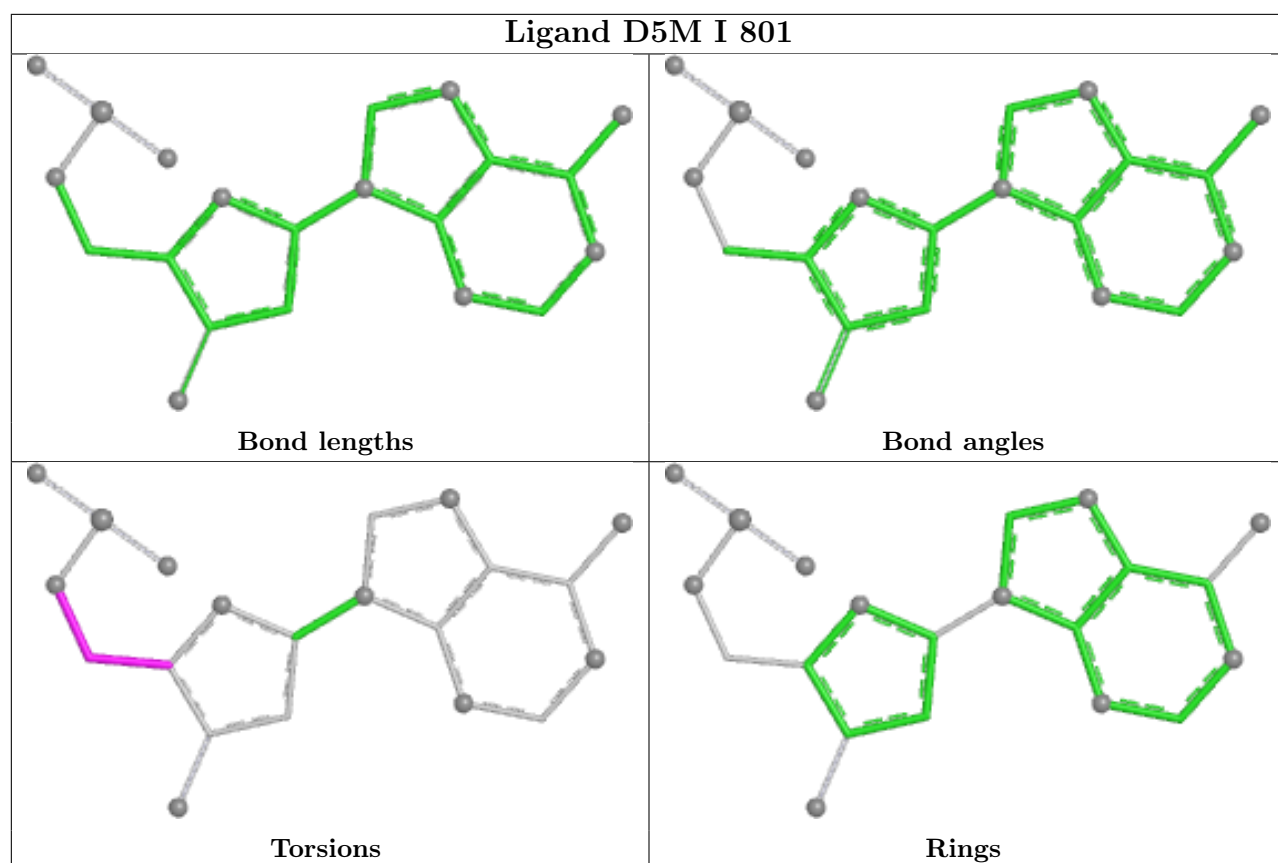
Mol	Chain	Res	Type	Clashes	Symm-Clashes
2	3	801	D5M	3	0
2	G	801	D5M	3	0
2	X	801	D5M	3	0
2	5	801	D5M	3	0
2	K	801	D5M	3	0
2	M	801	D5M	3	0
2	k	801	D5M	3	0
2	b	801	D5M	4	0
2	Z	801	D5M	3	0
2	w	801	D5M	3	0
2	x	801	D5M	3	0
2	N	801	D5M	3	0
2	2	801	D5M	3	0
2	T	801	D5M	3	0

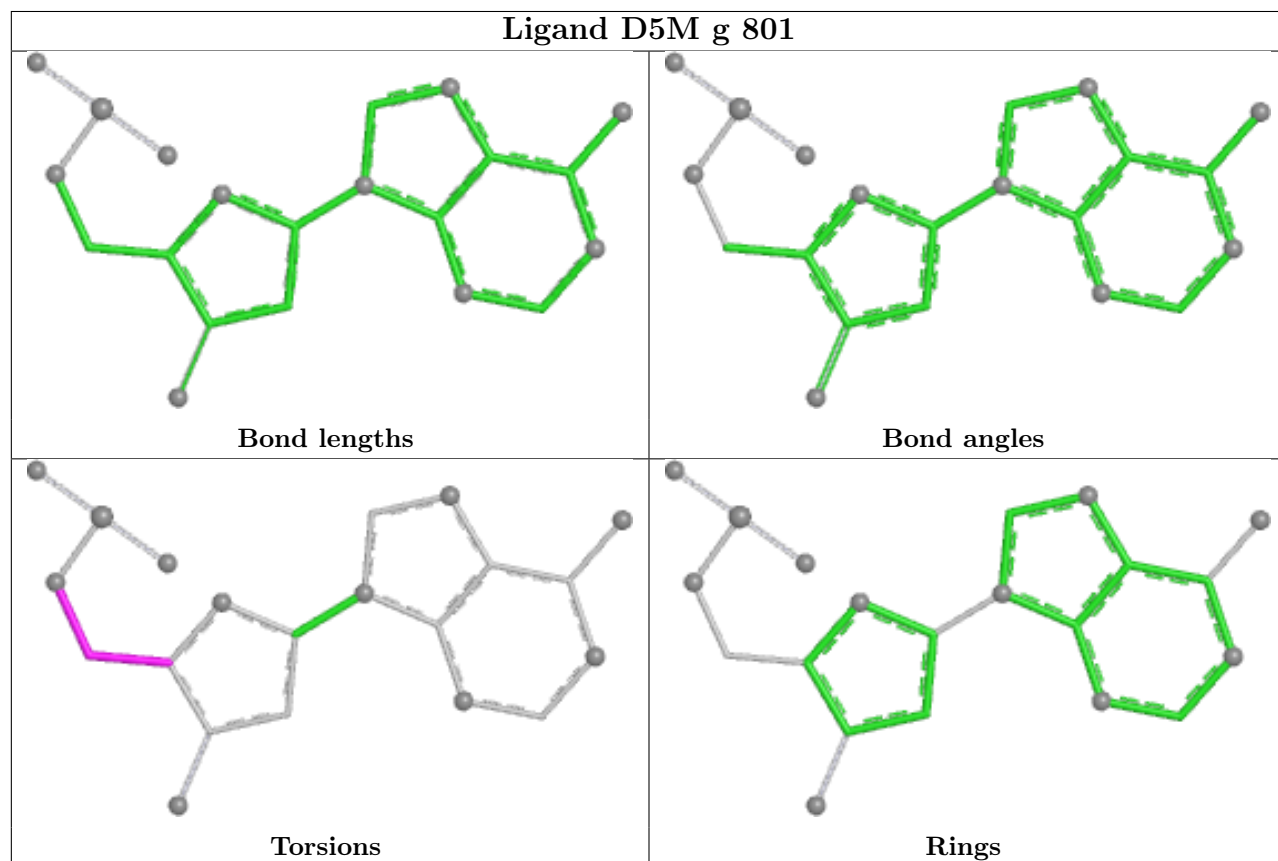
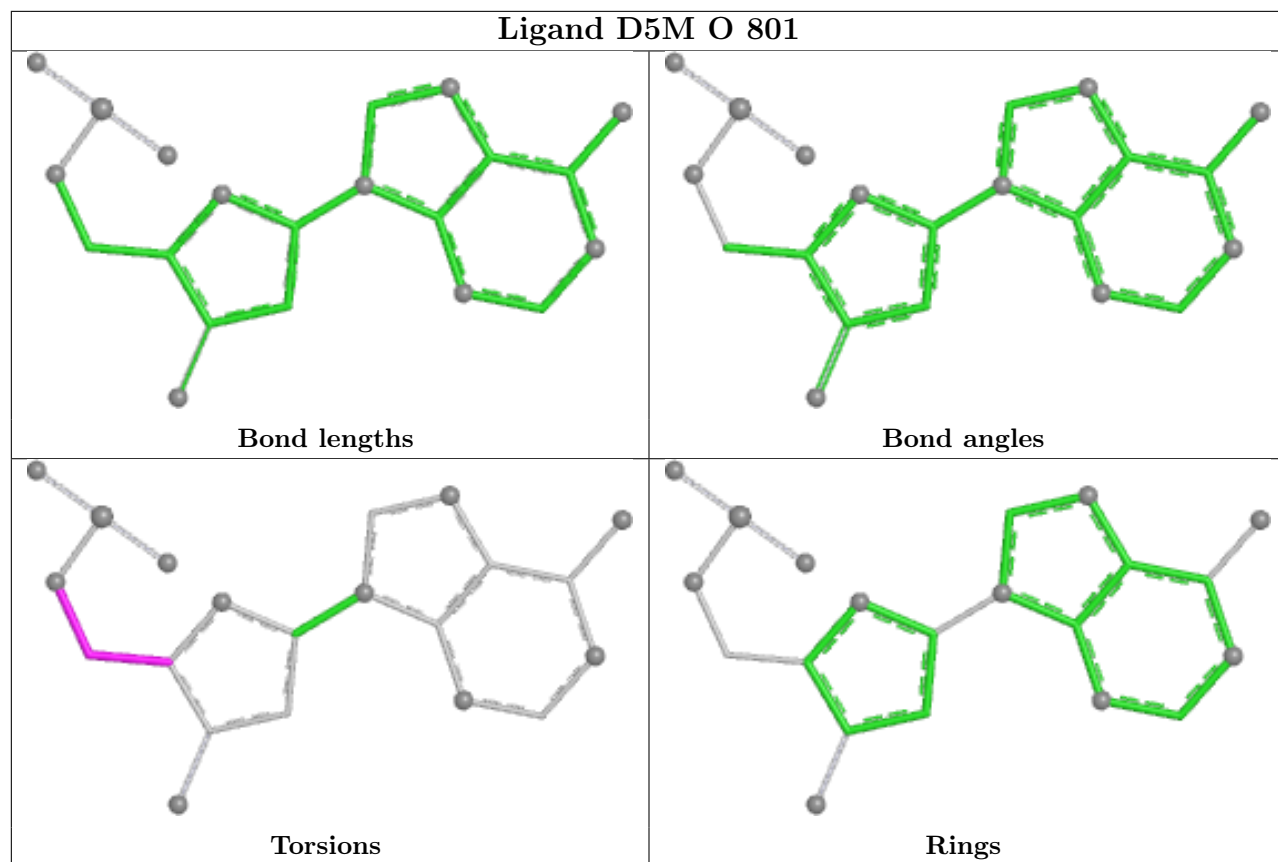
The following is a two-dimensional graphical depiction of Mogul quality analysis of bond lengths, bond angles, torsion angles, and ring geometry for all instances of the Ligand of Interest. In addition, ligands with molecular weight > 250 and outliers as shown on the validation Tables will also be included.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

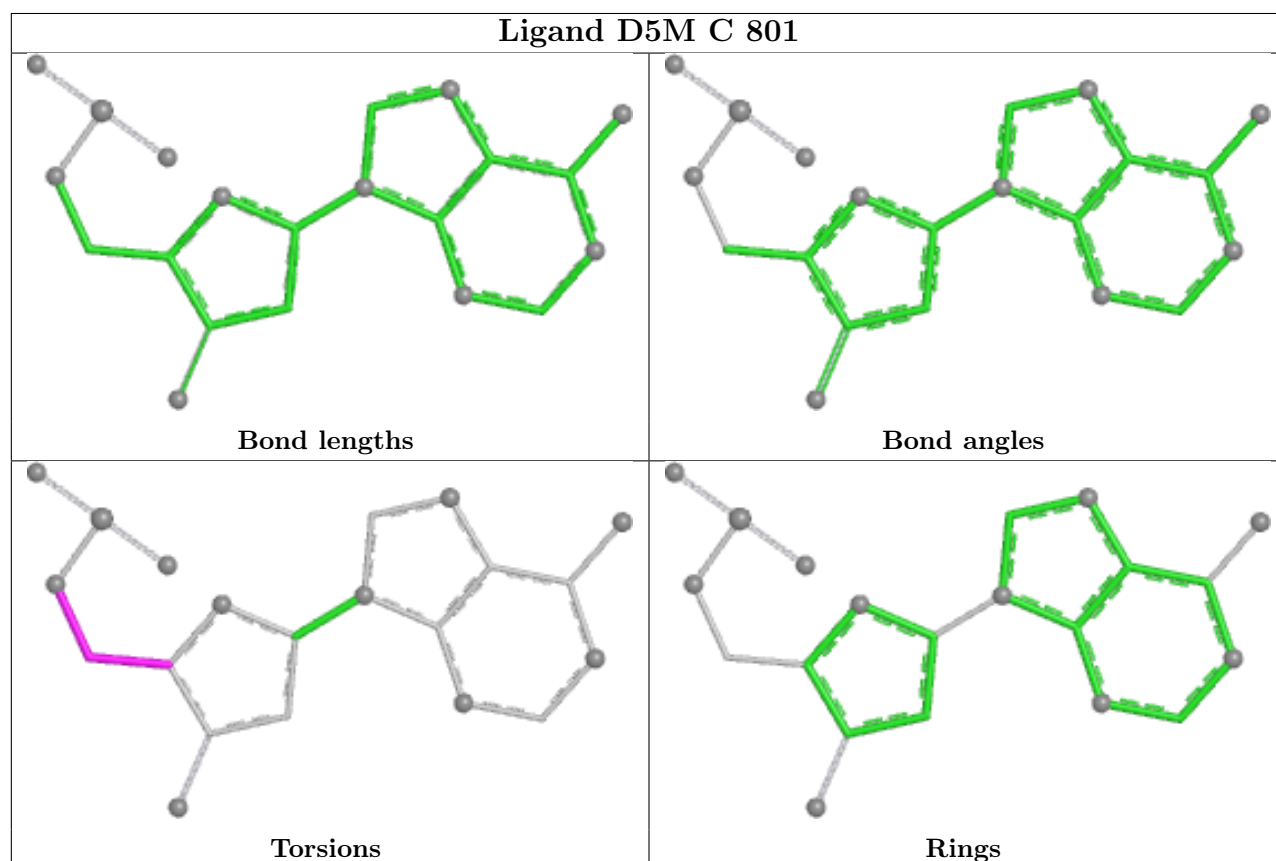
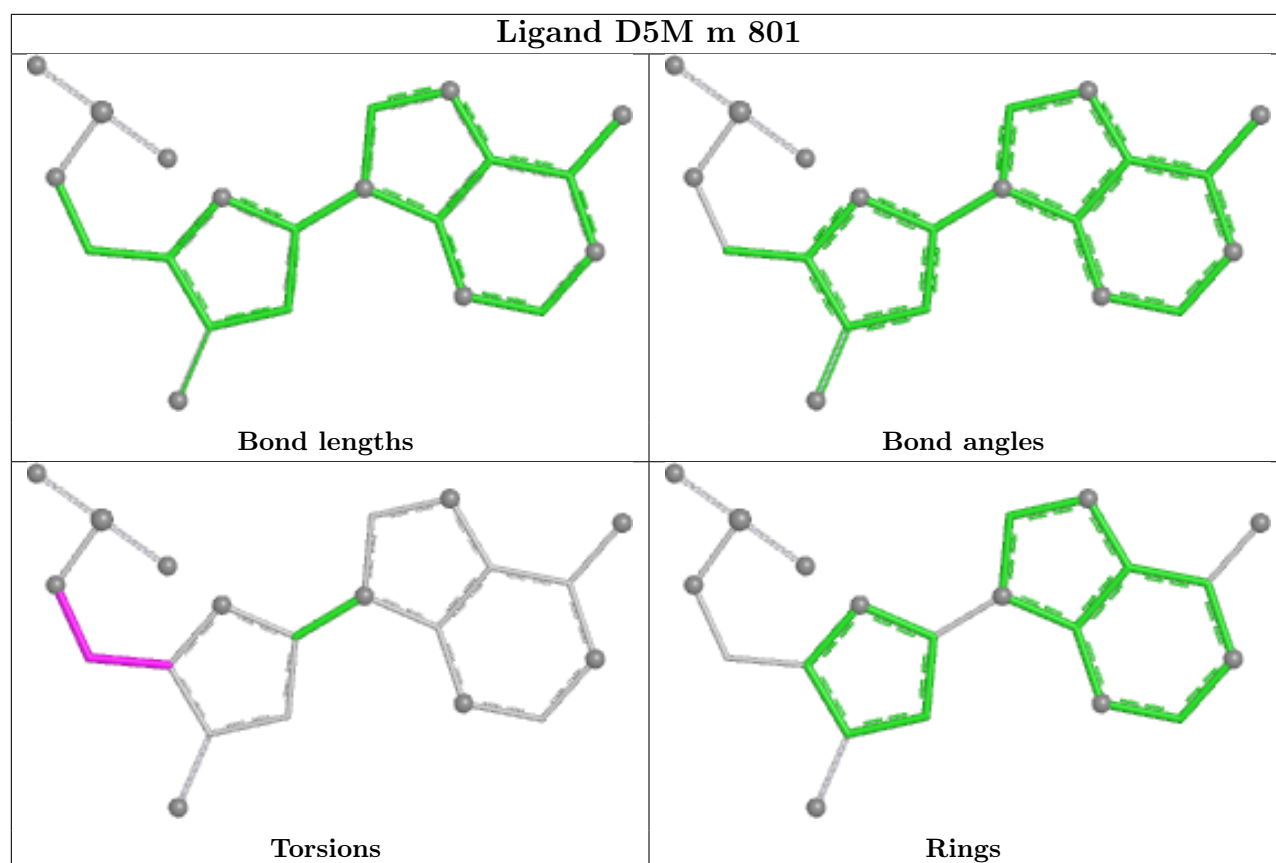


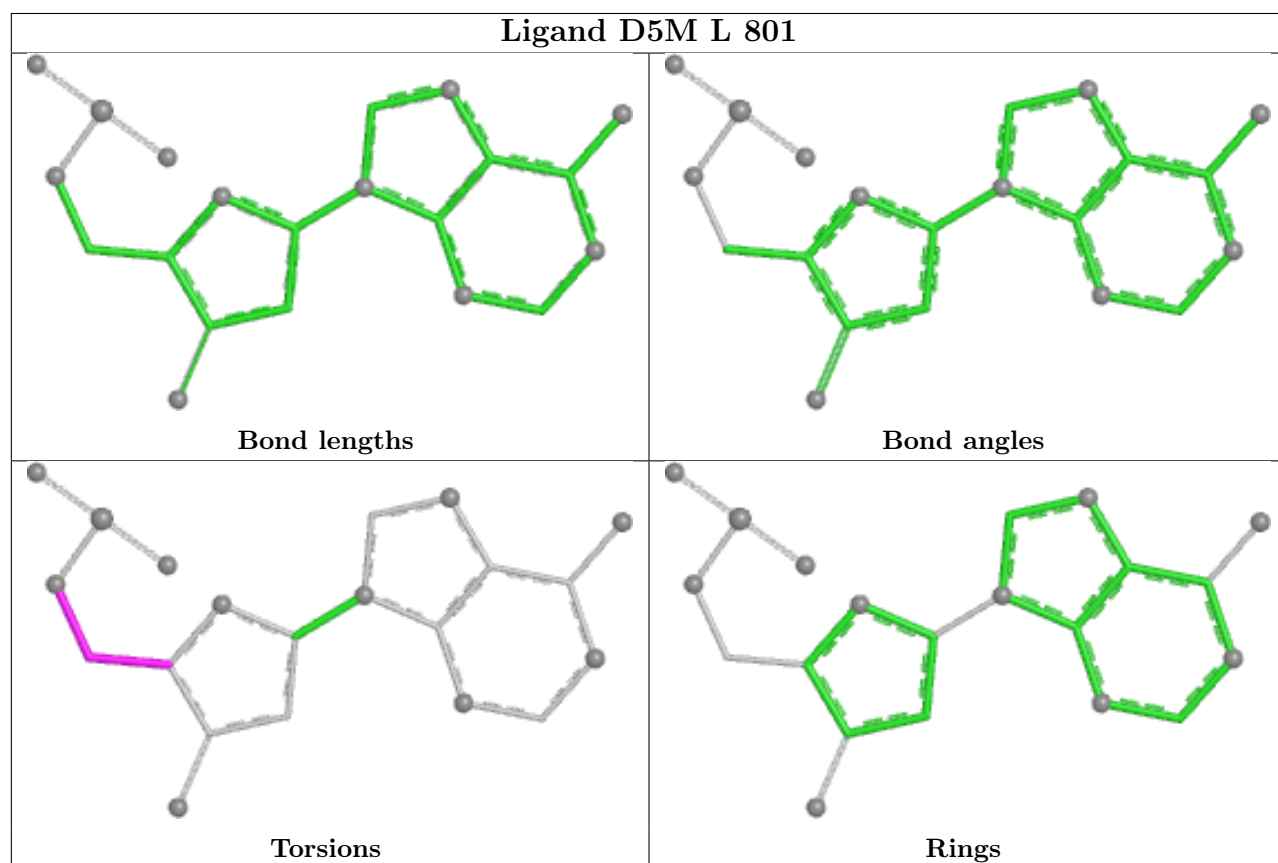
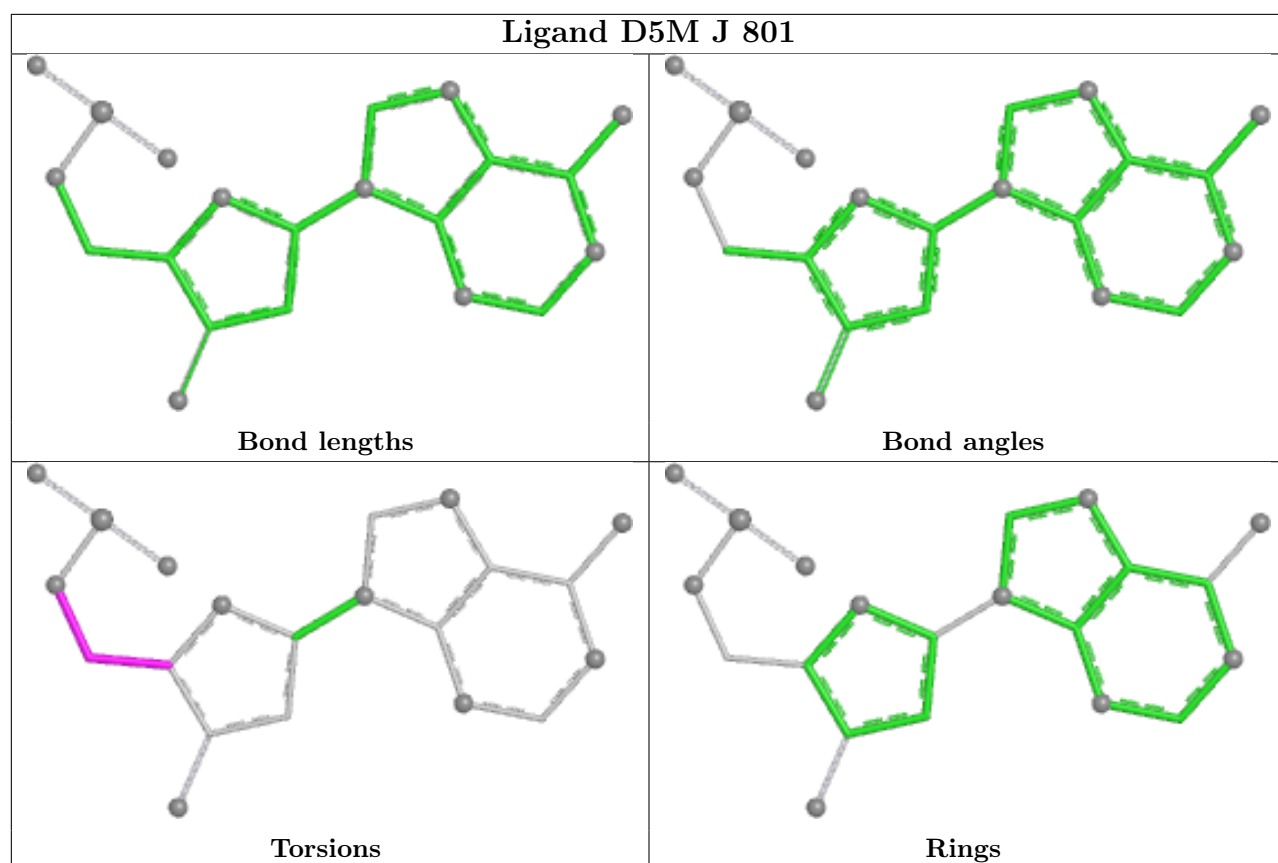


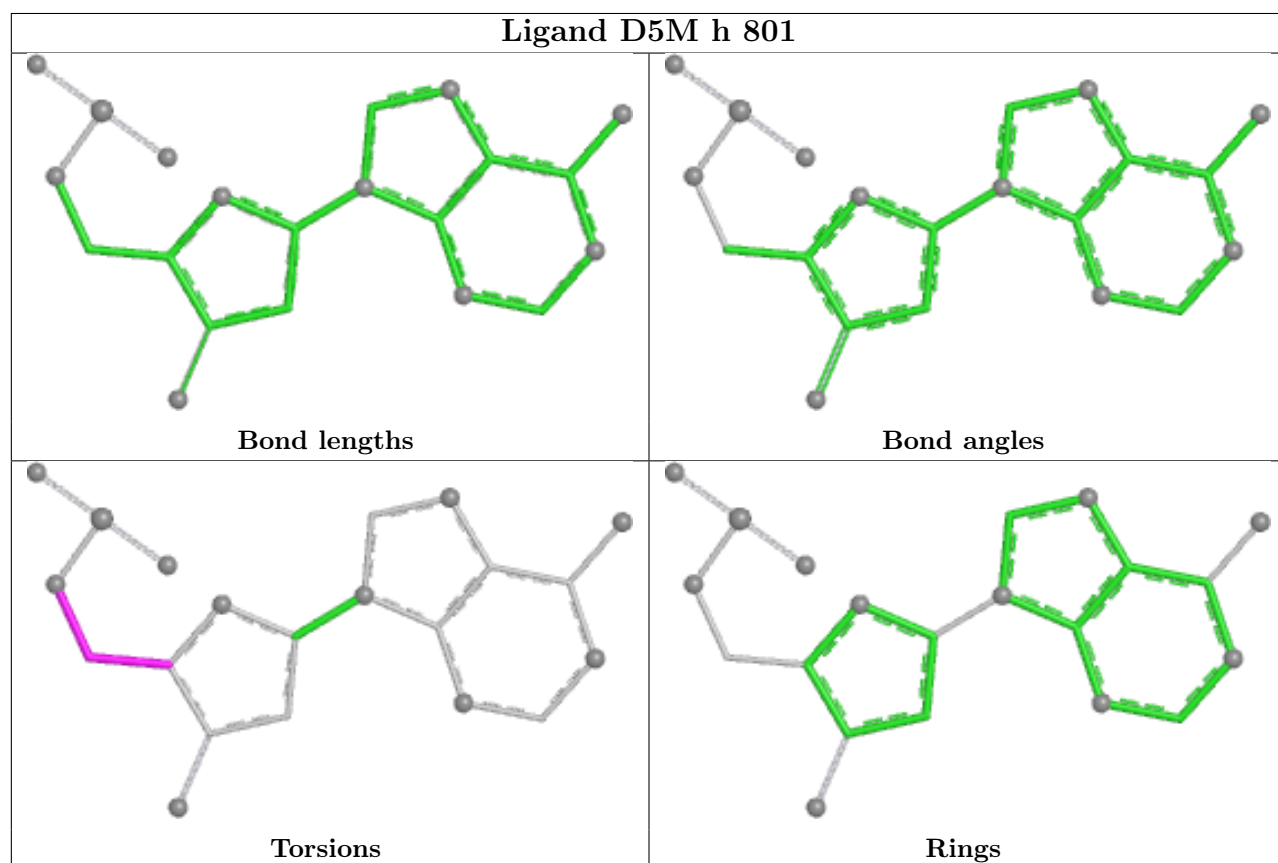
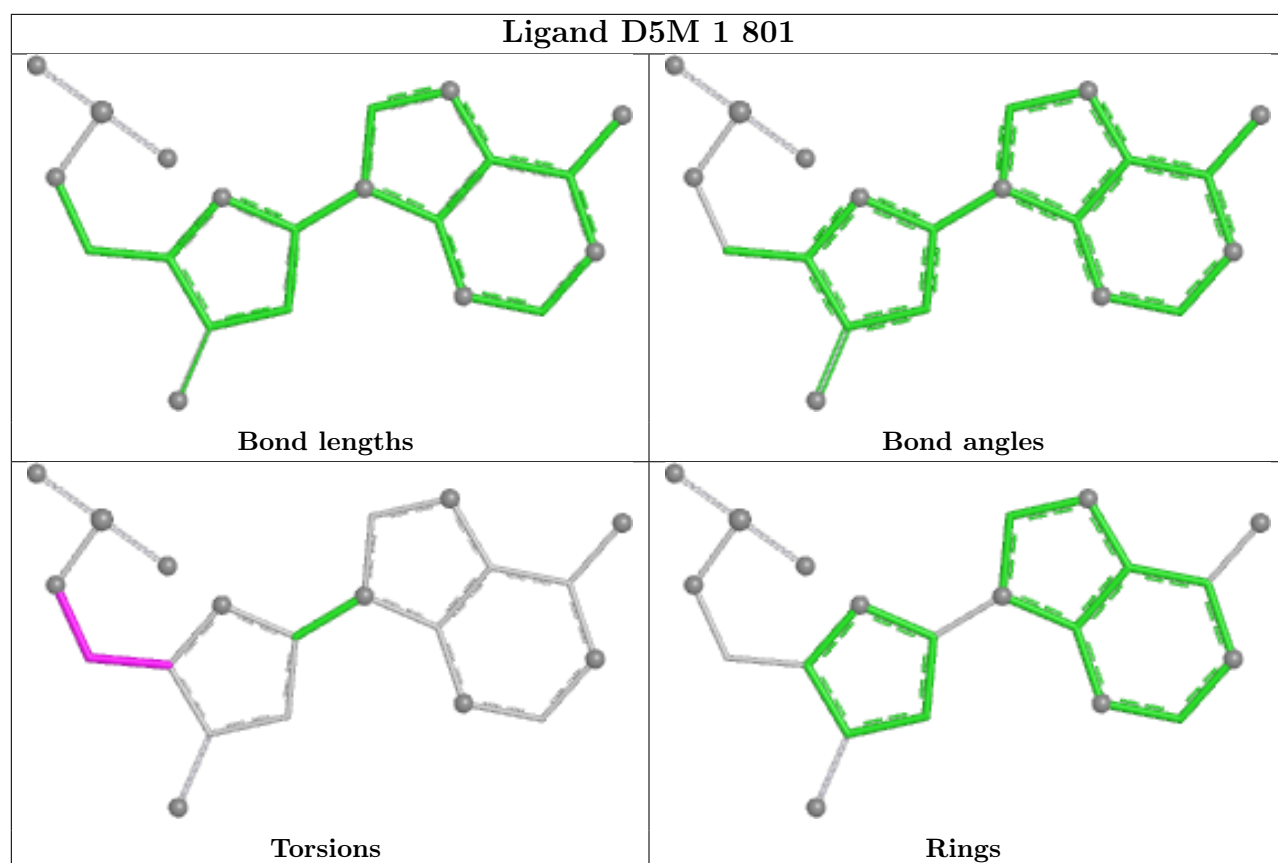


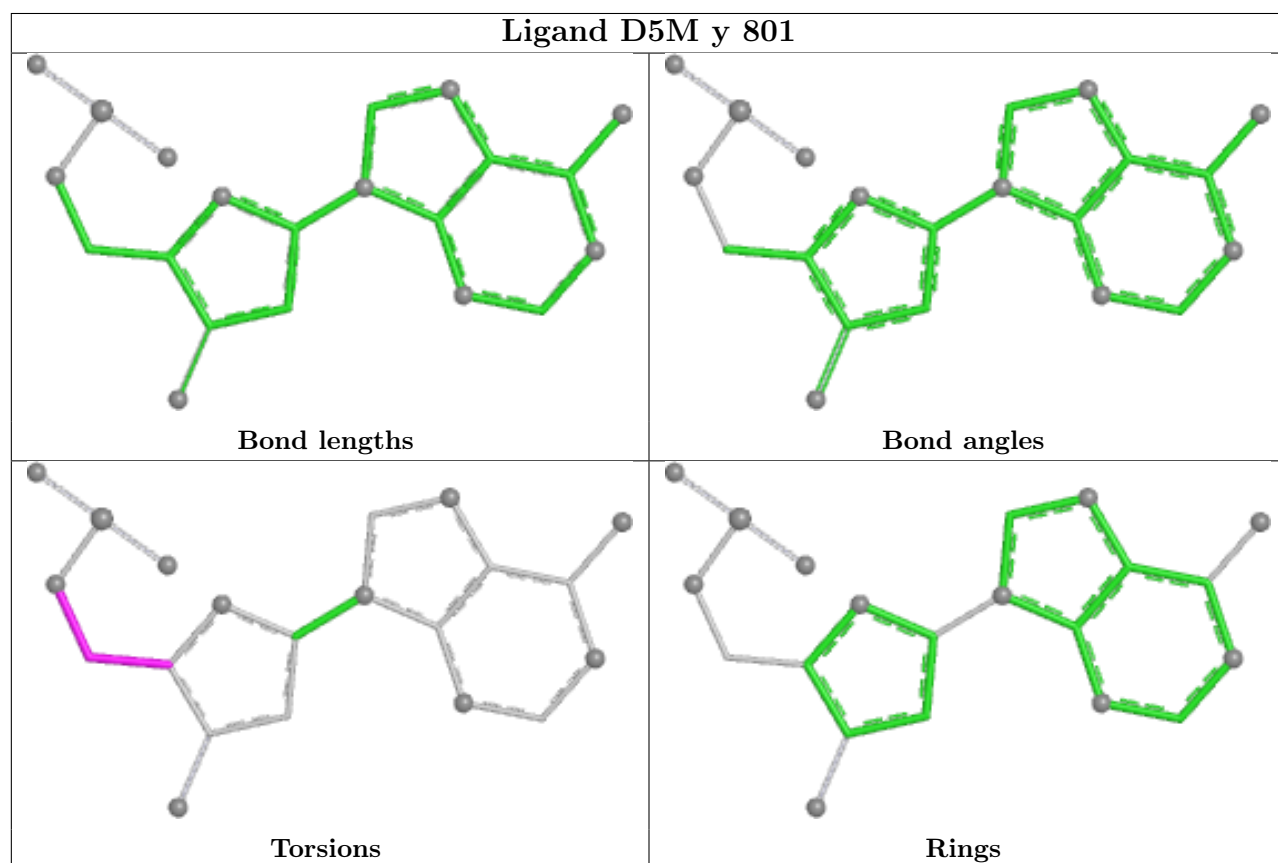
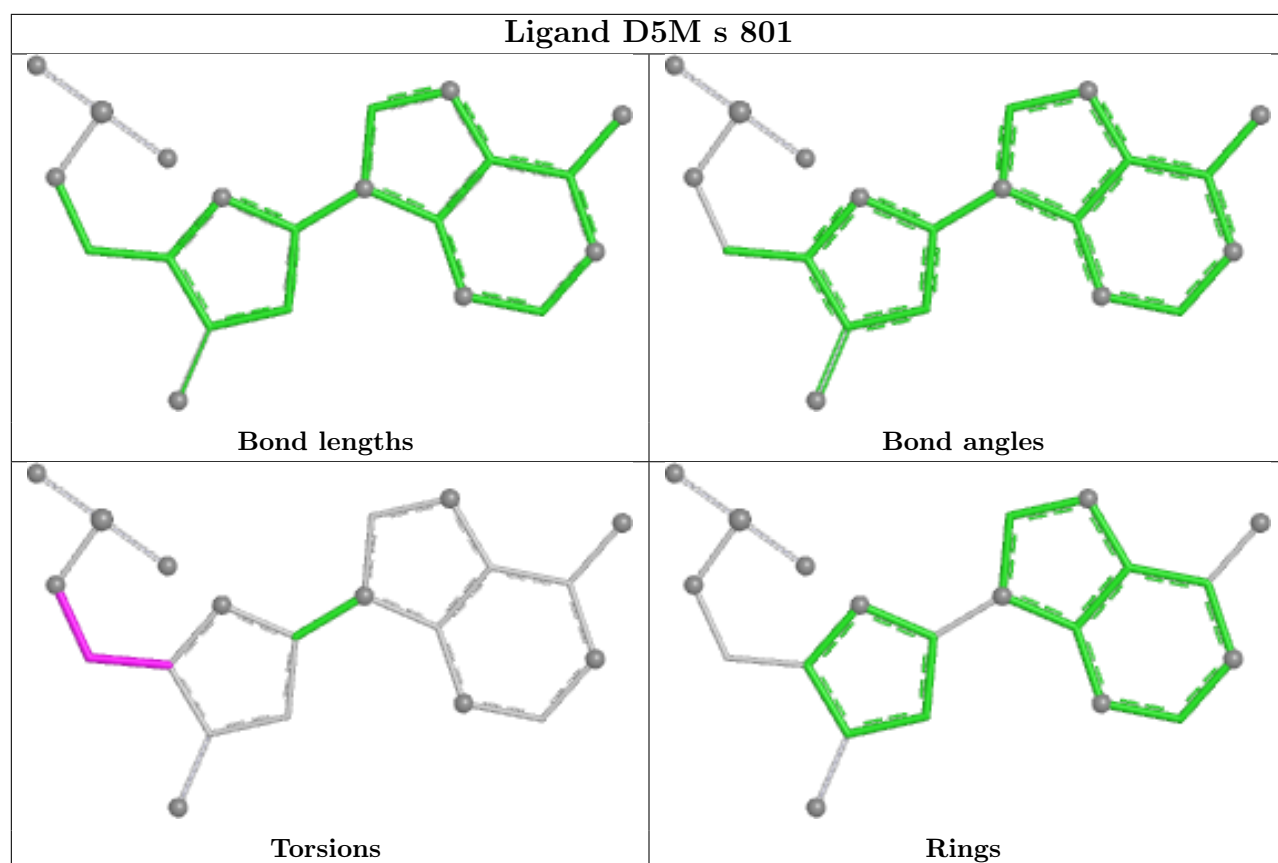


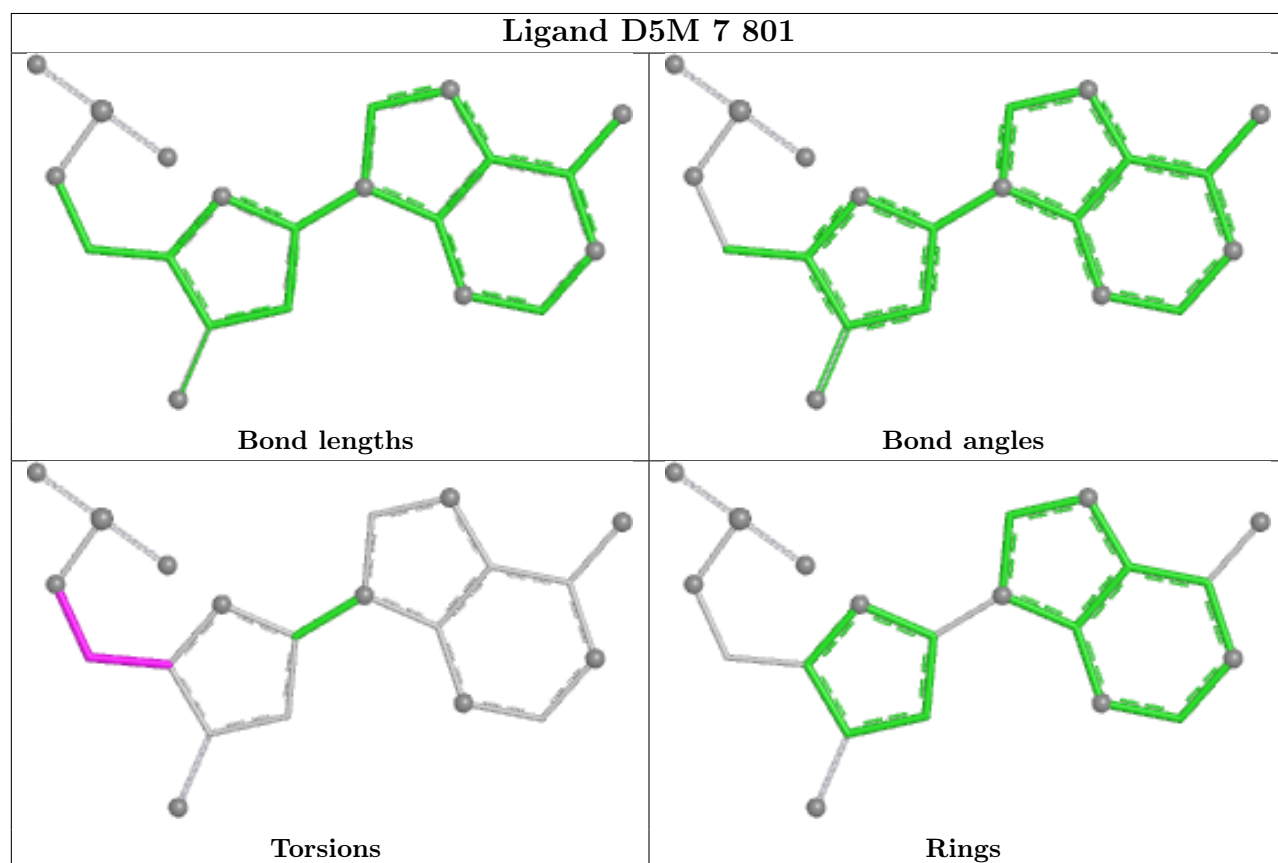
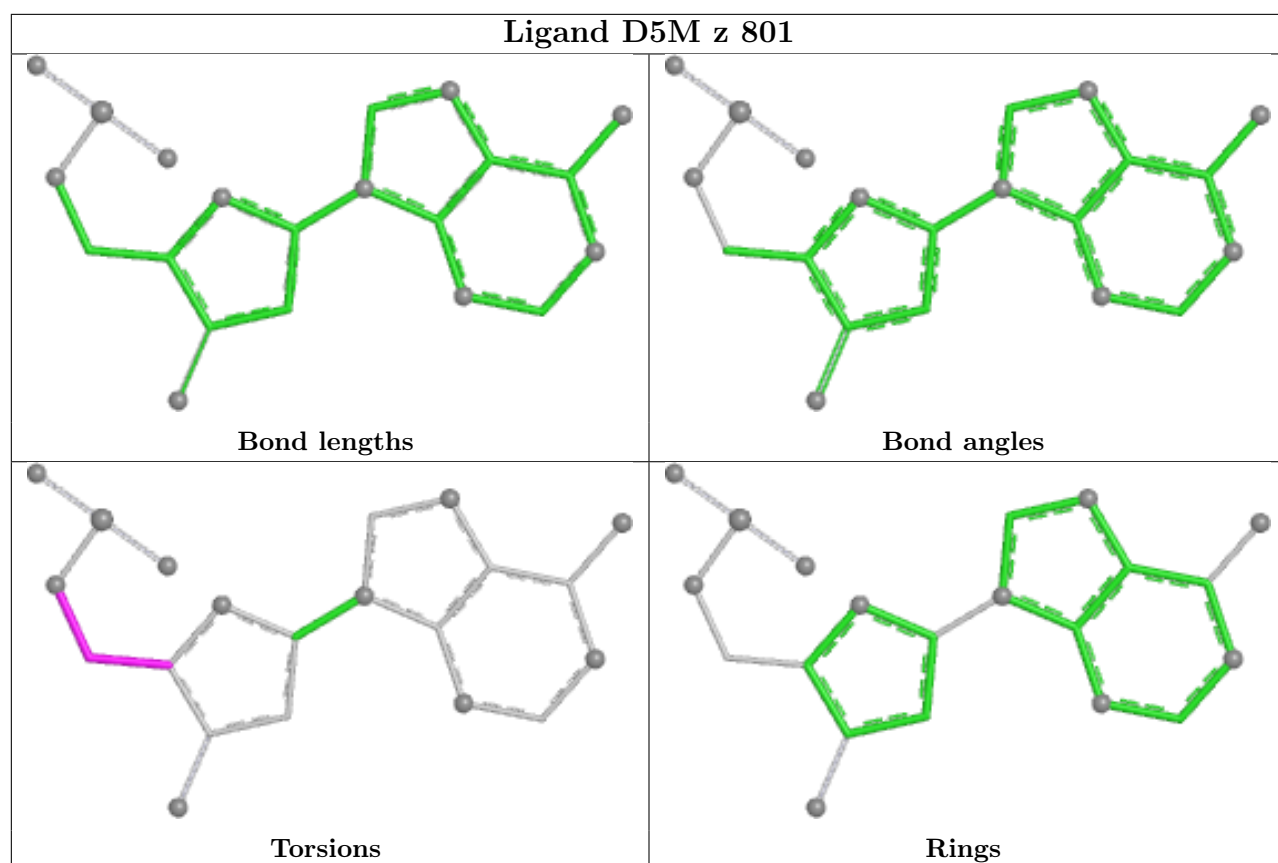


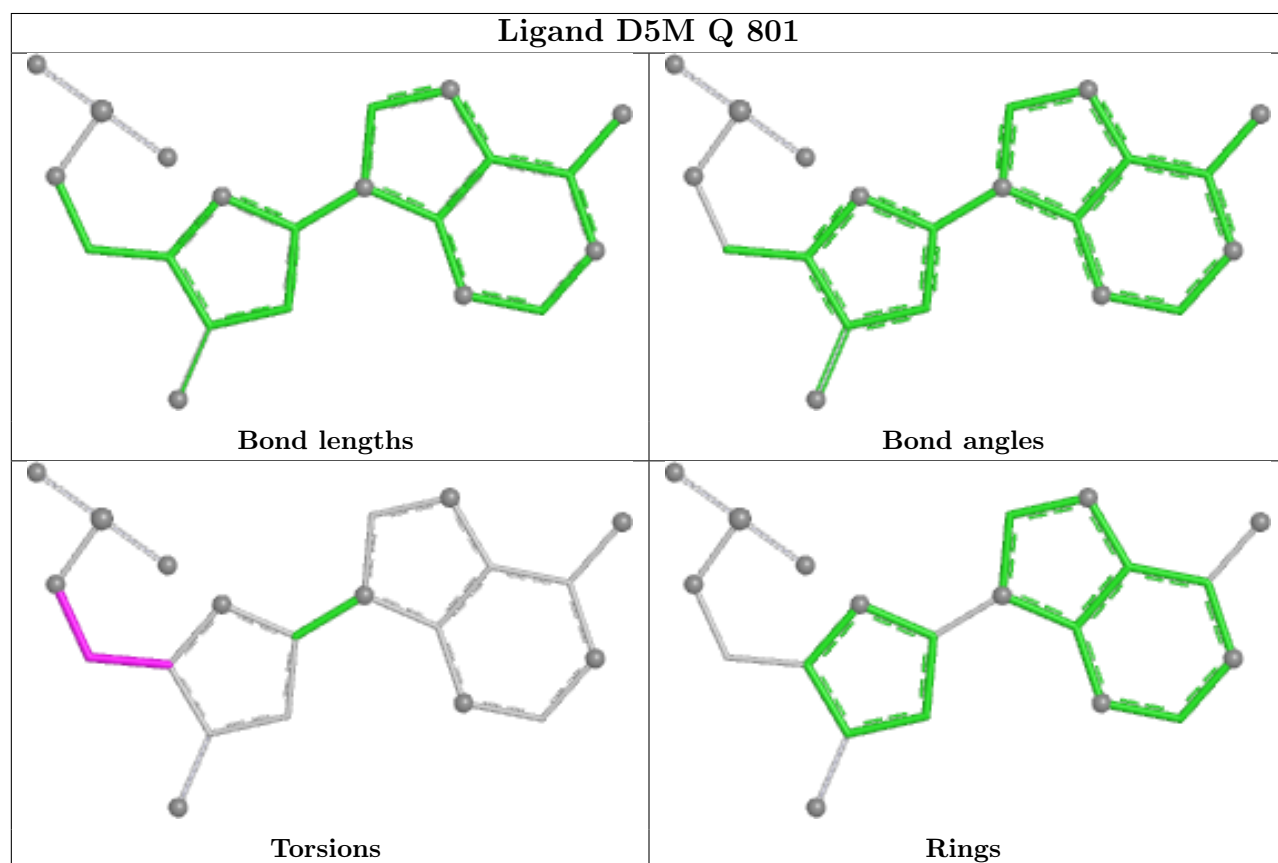
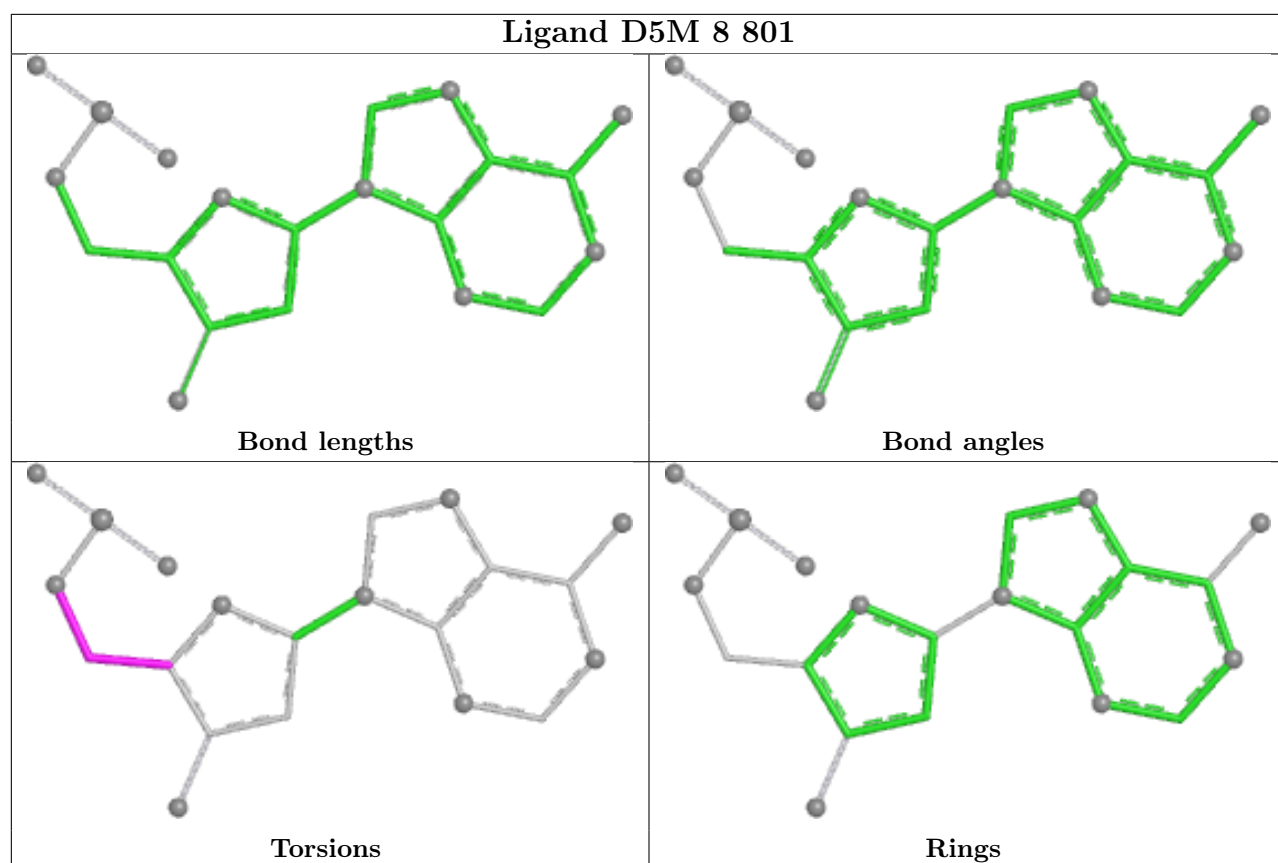


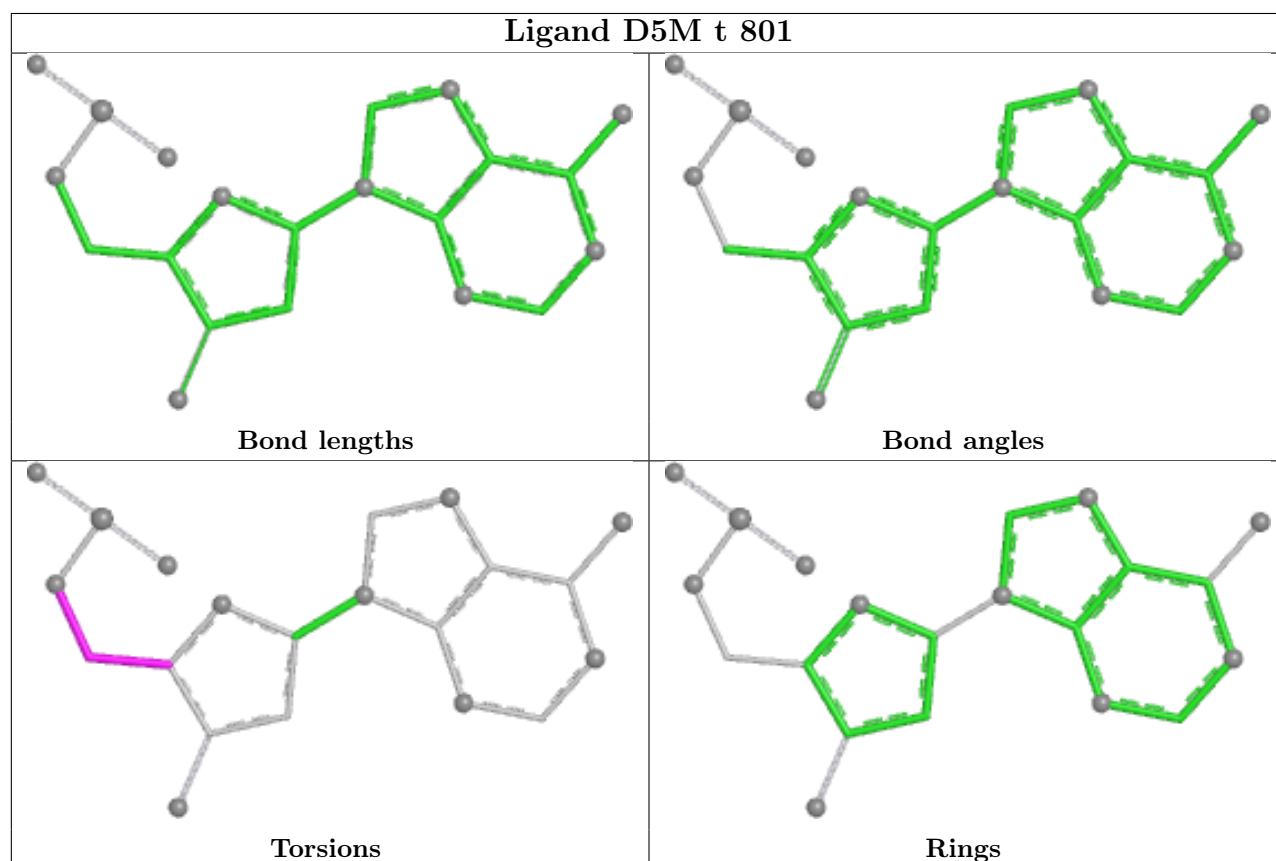
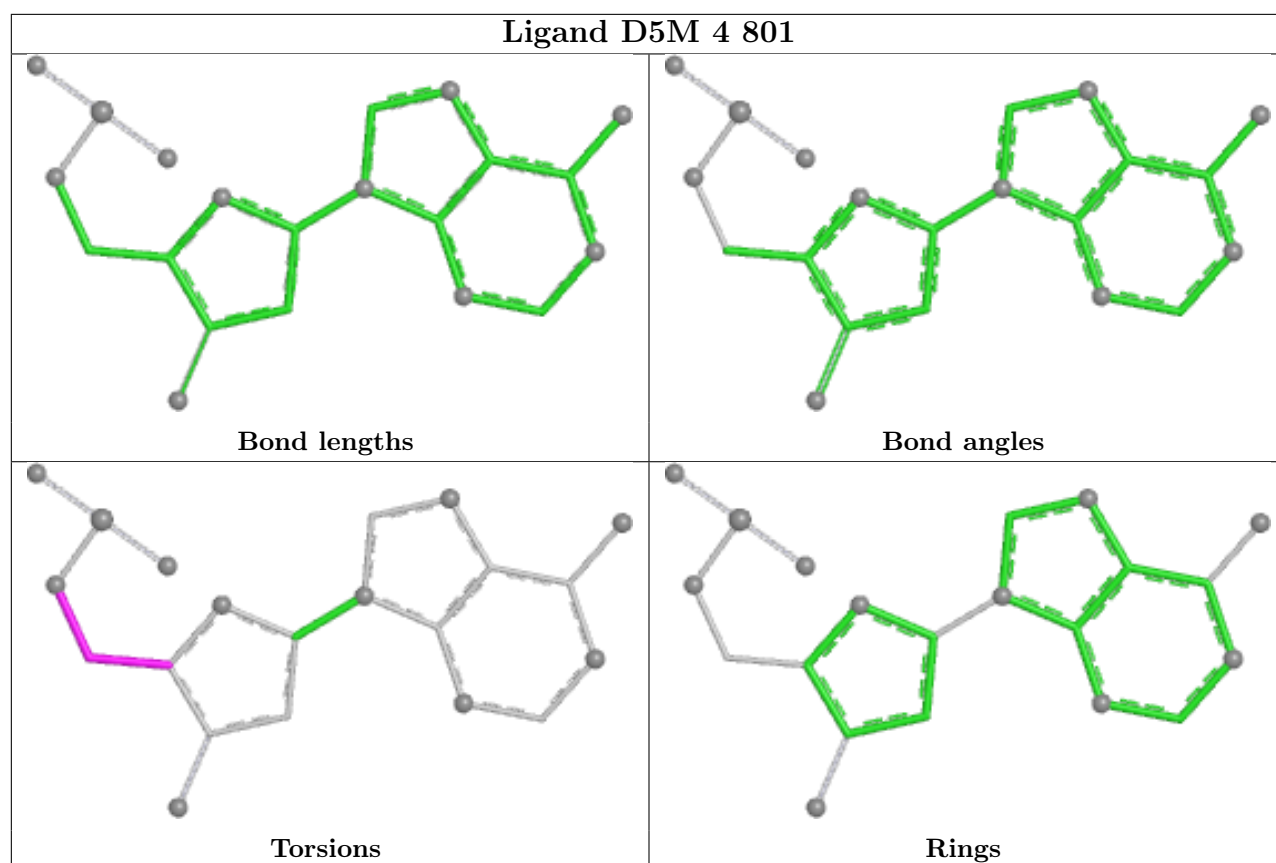


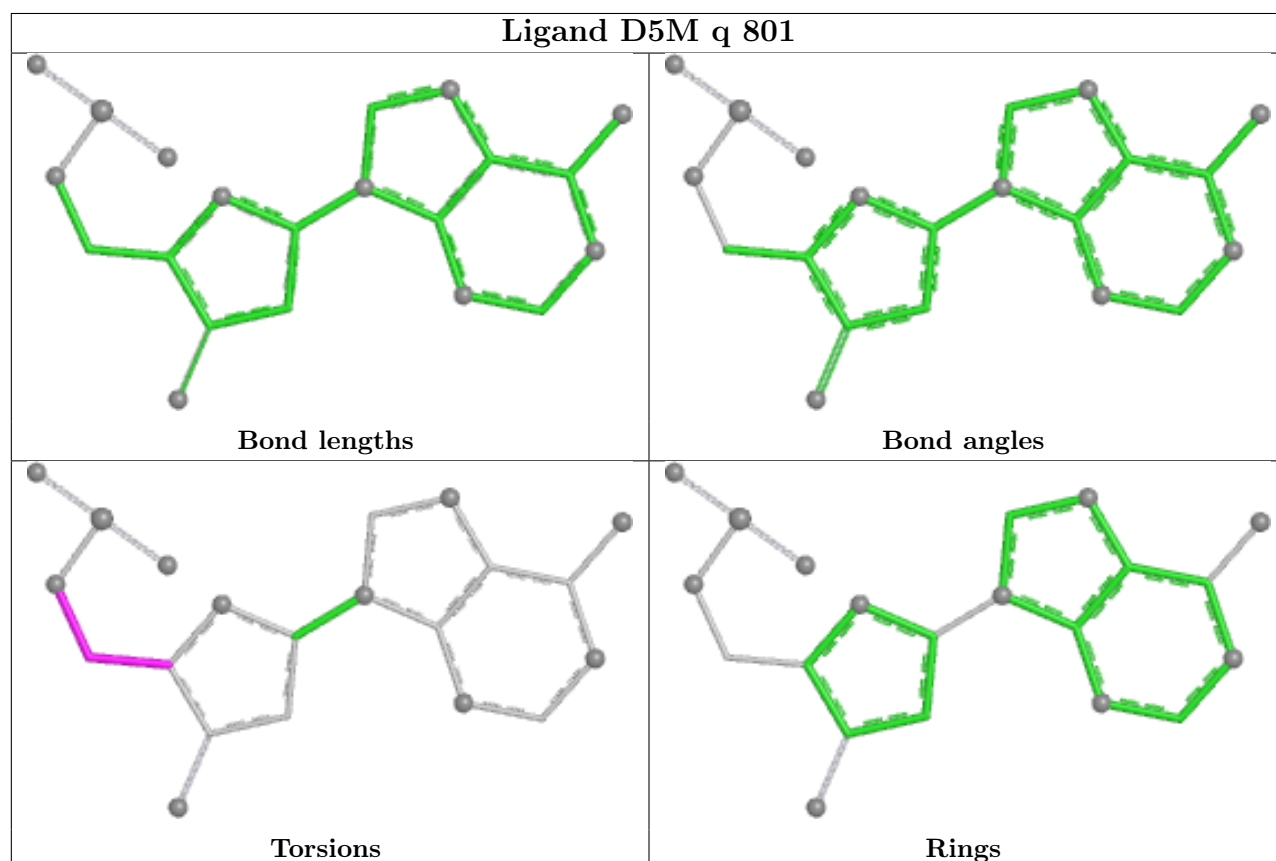
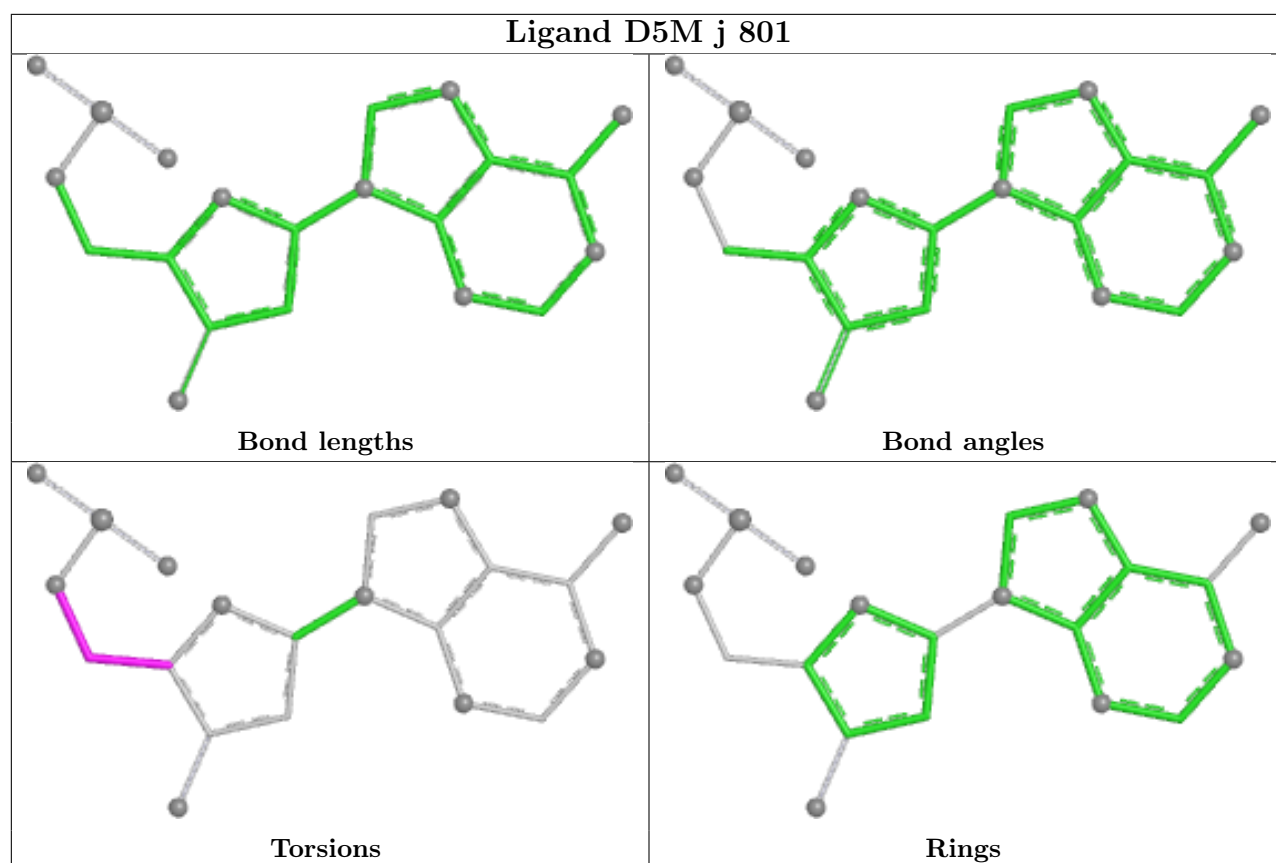


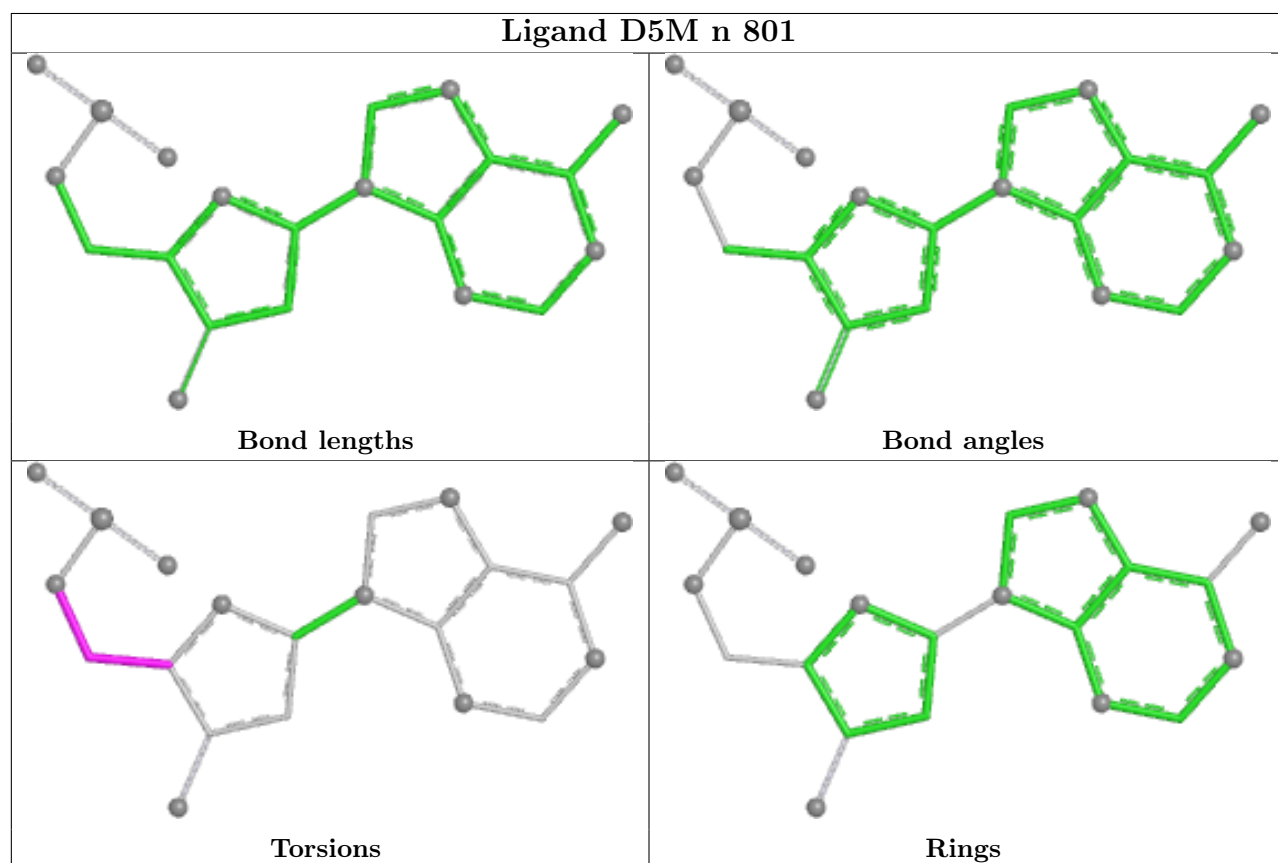
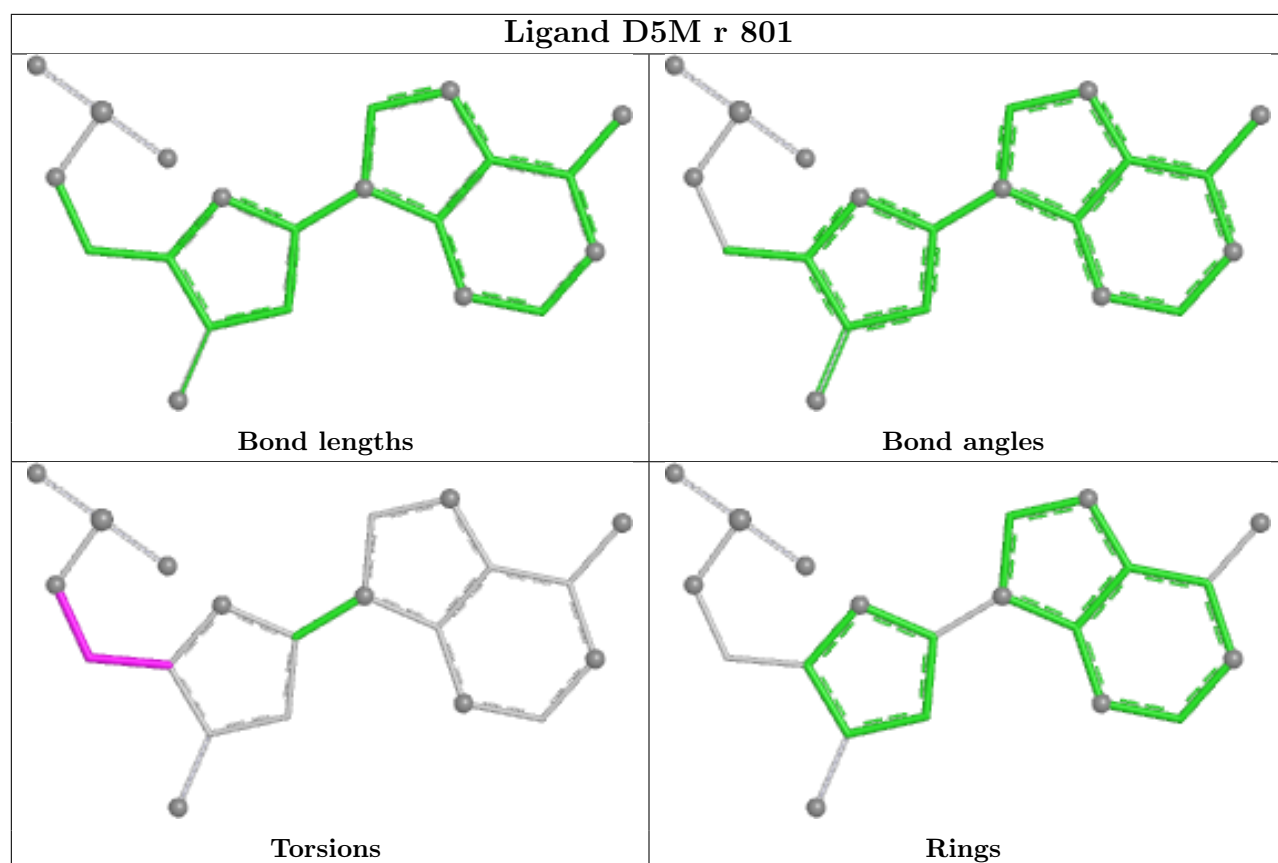


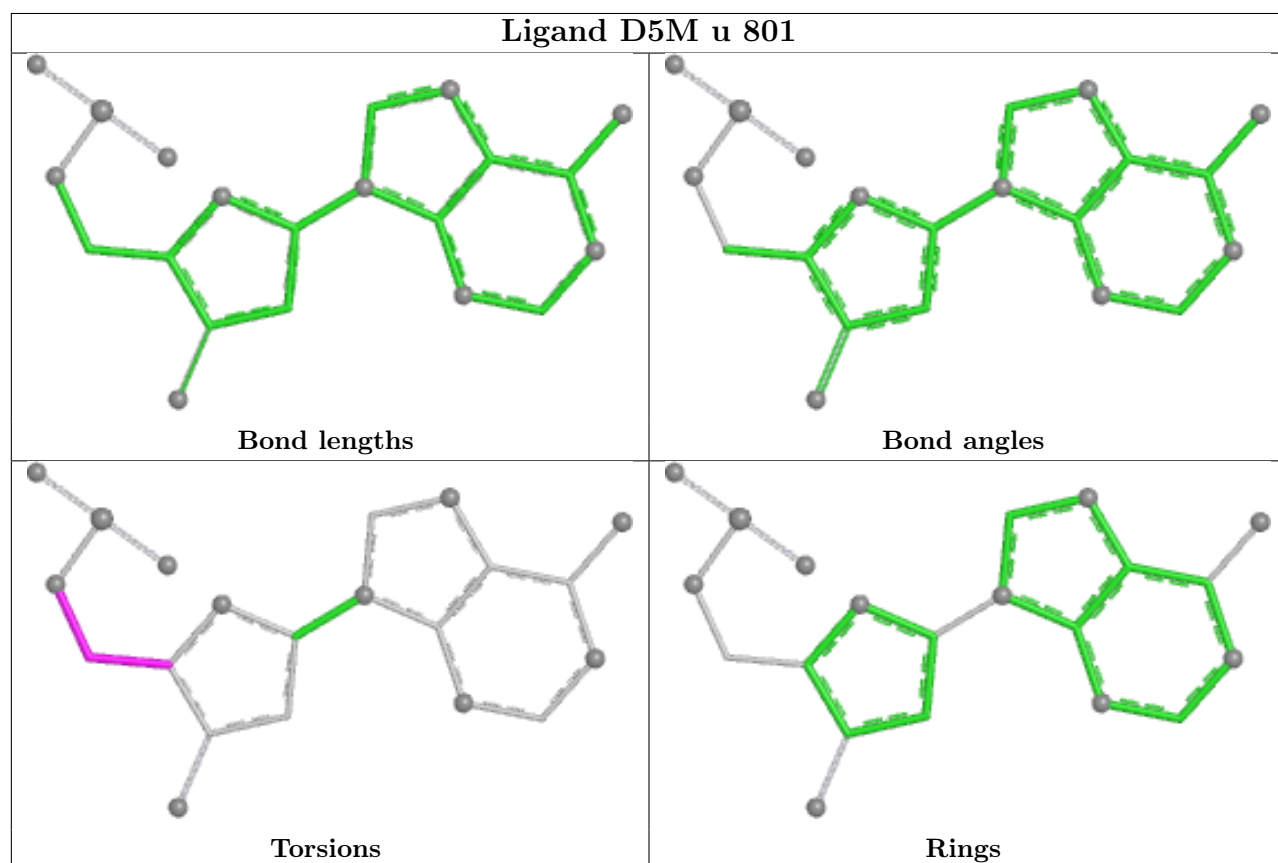
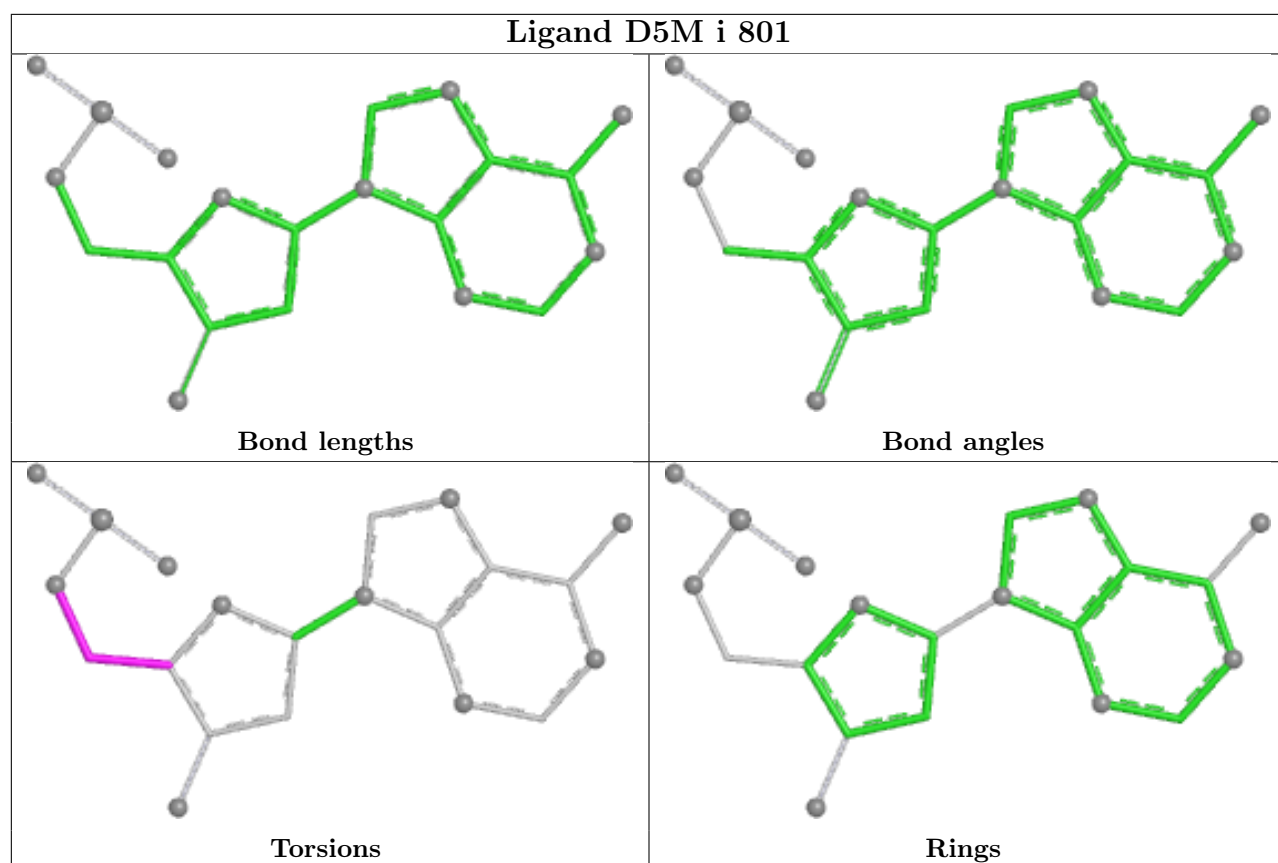


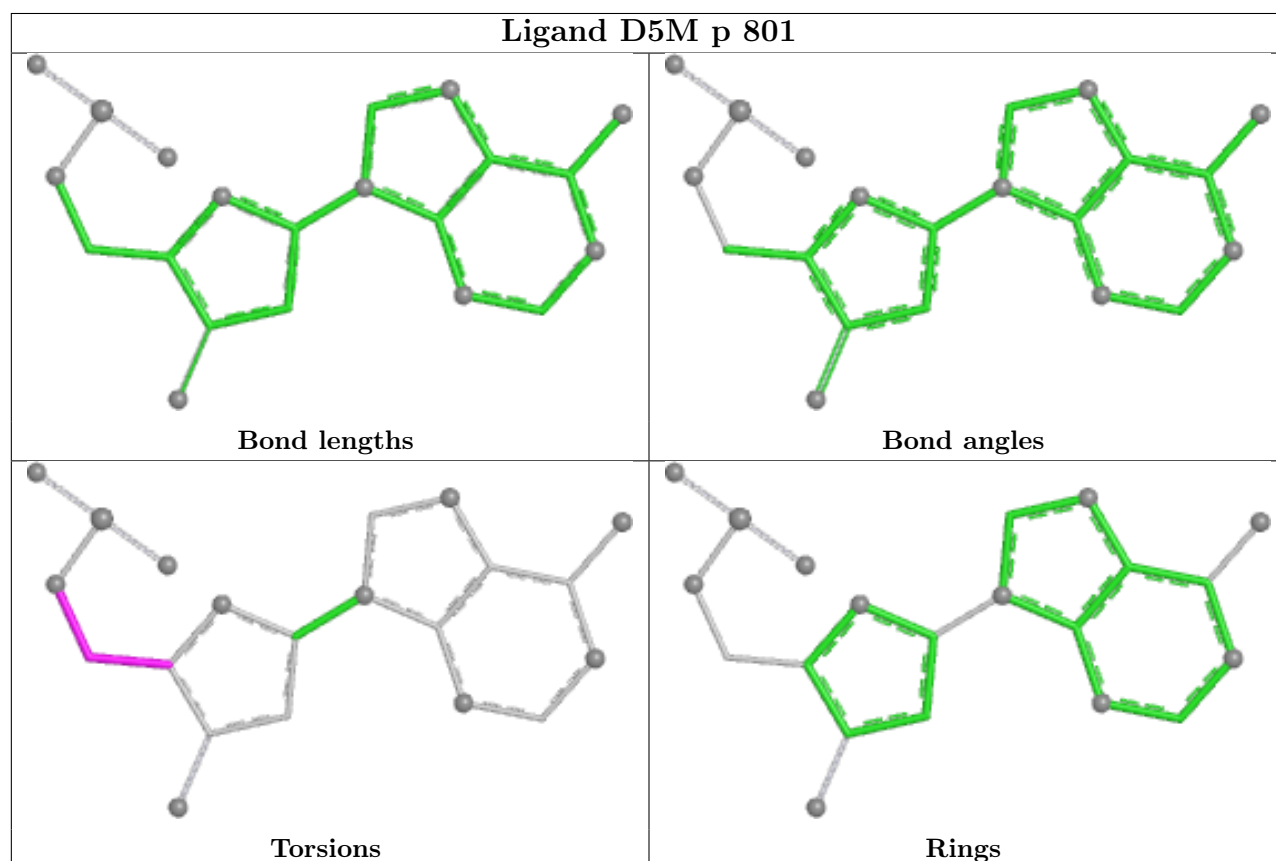
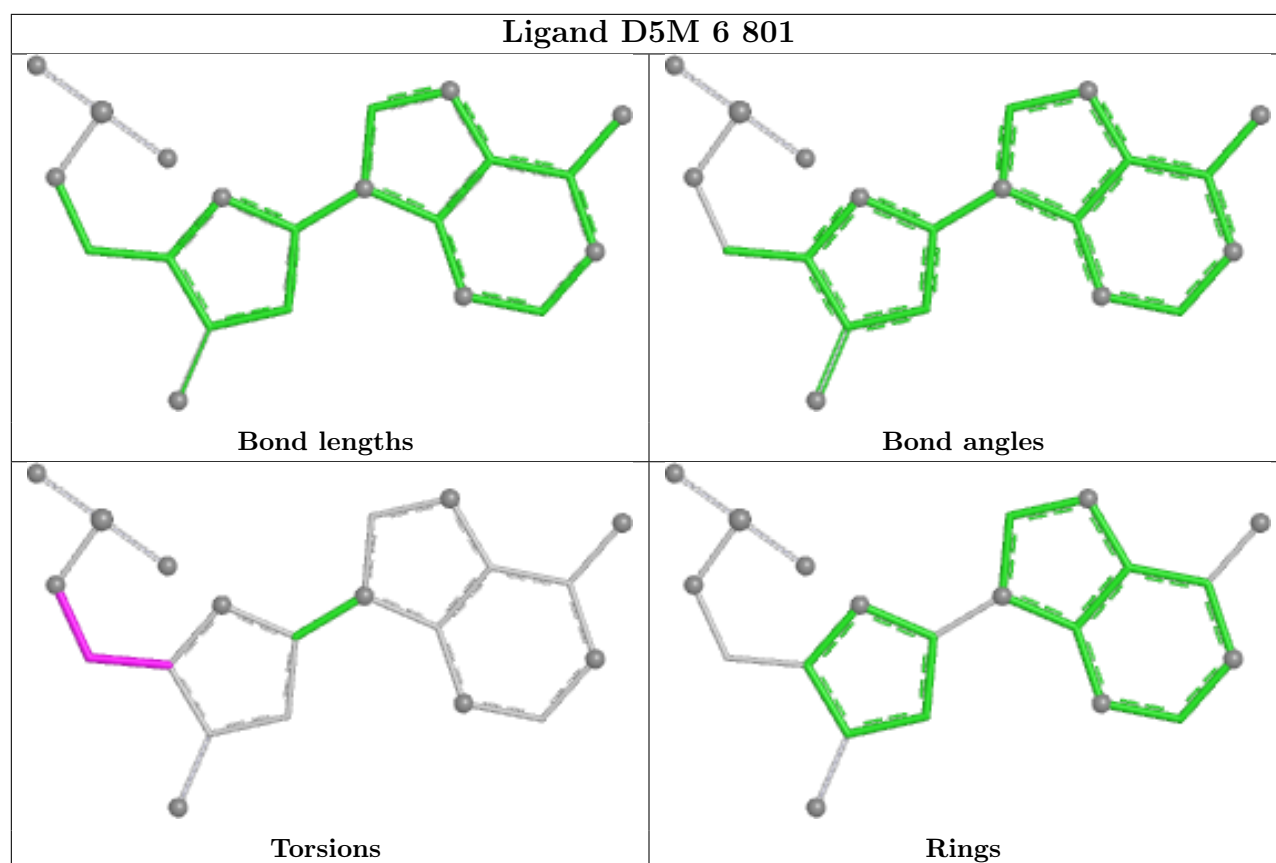


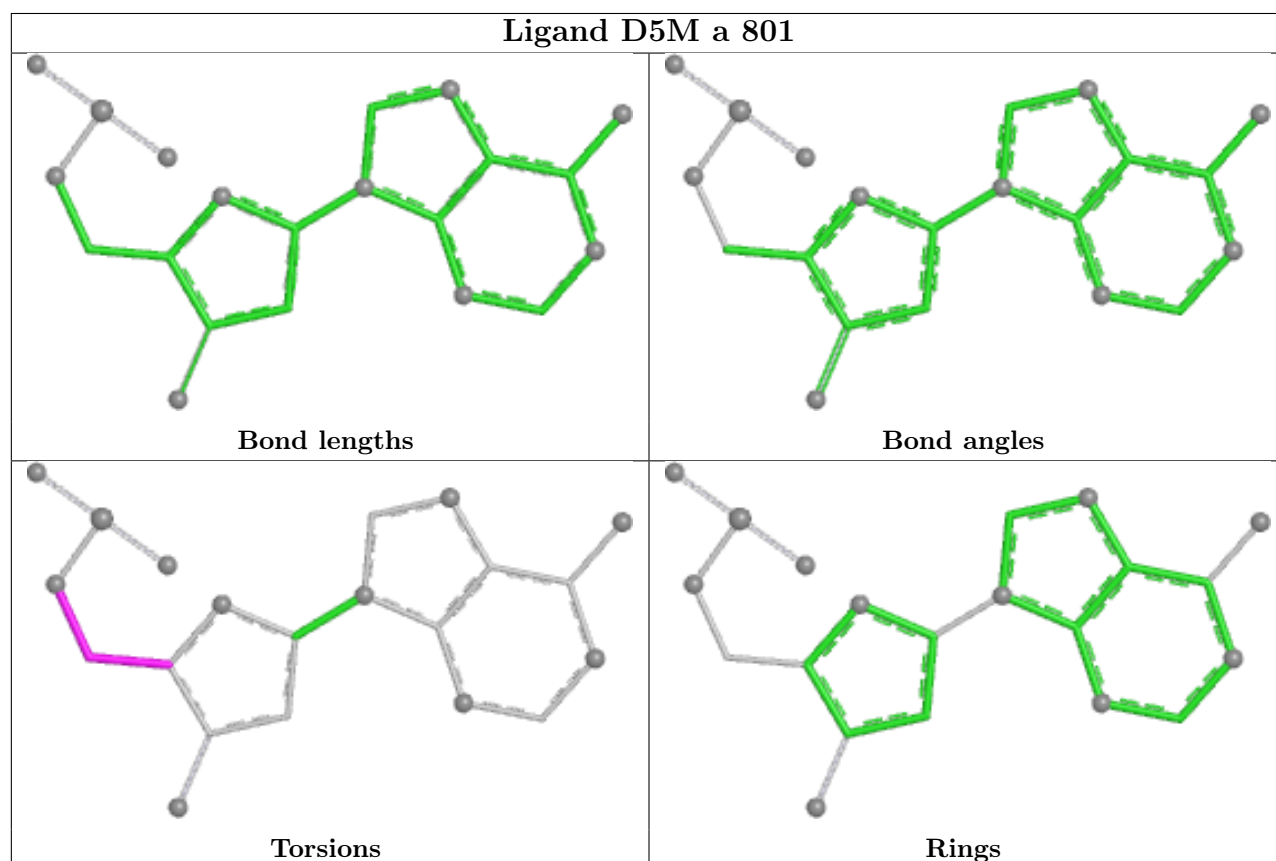
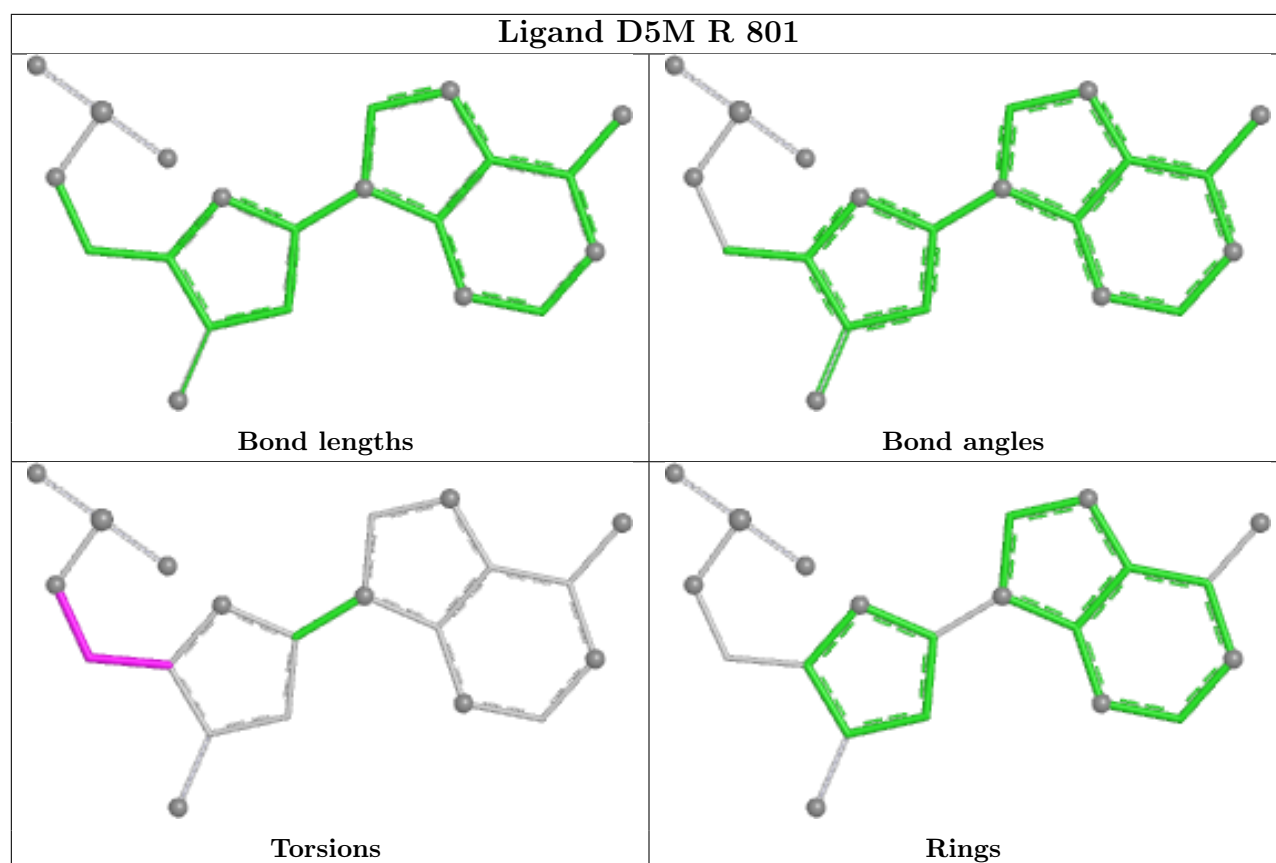


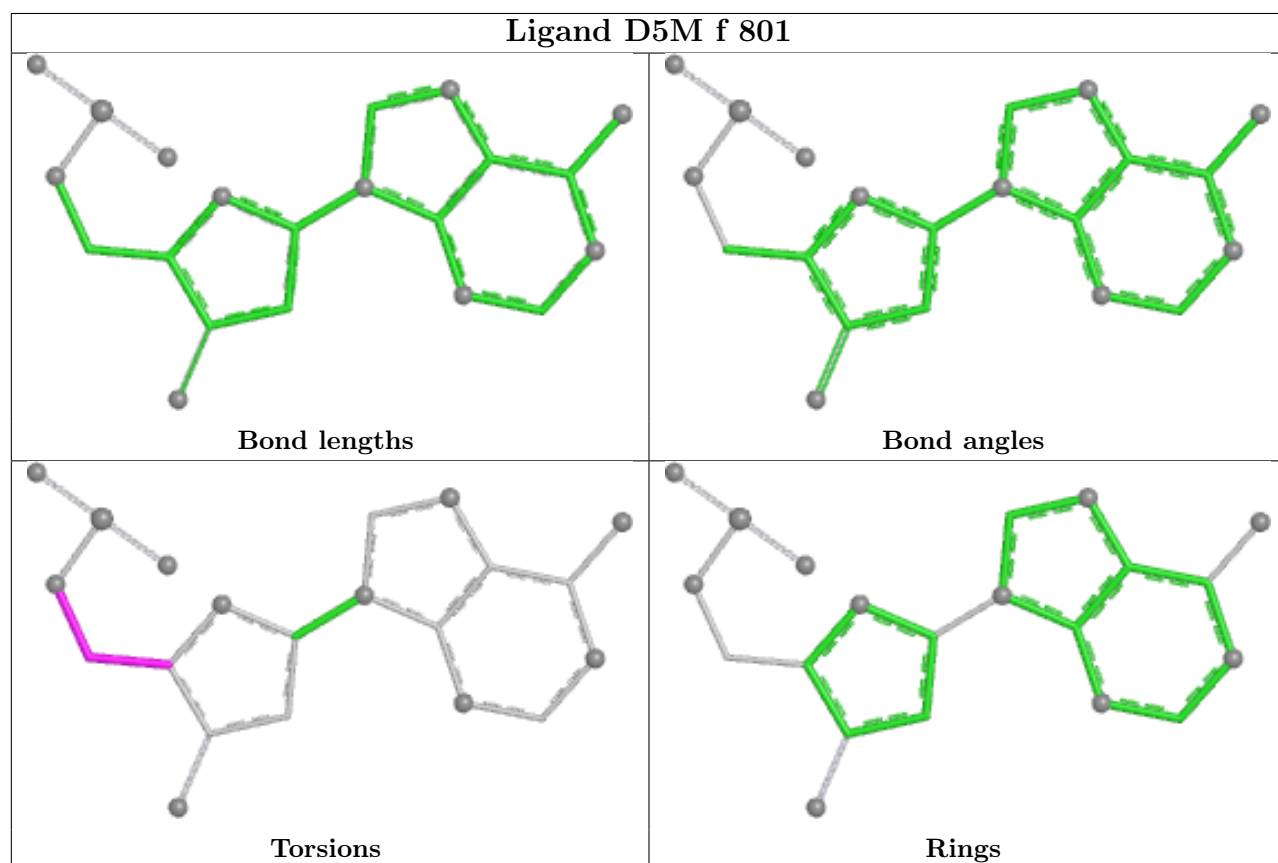
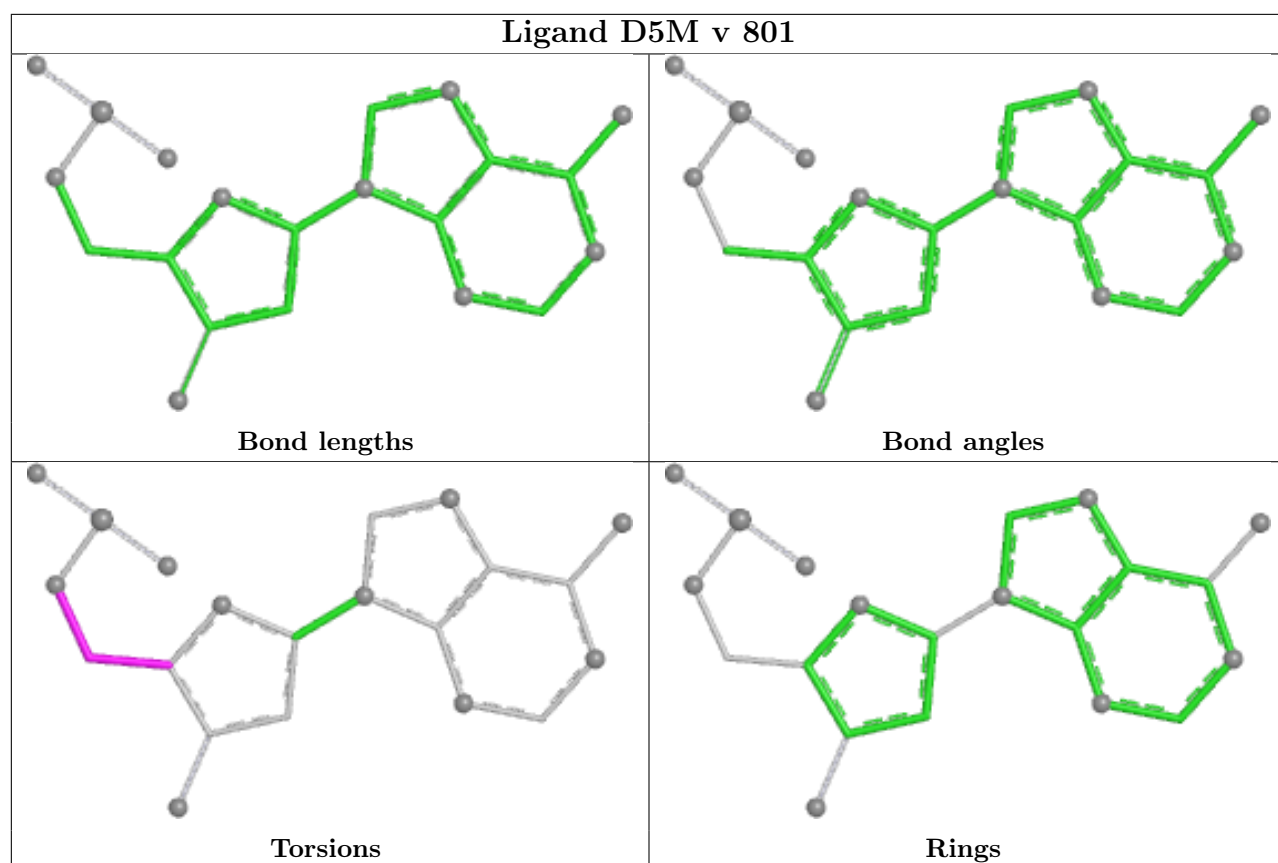


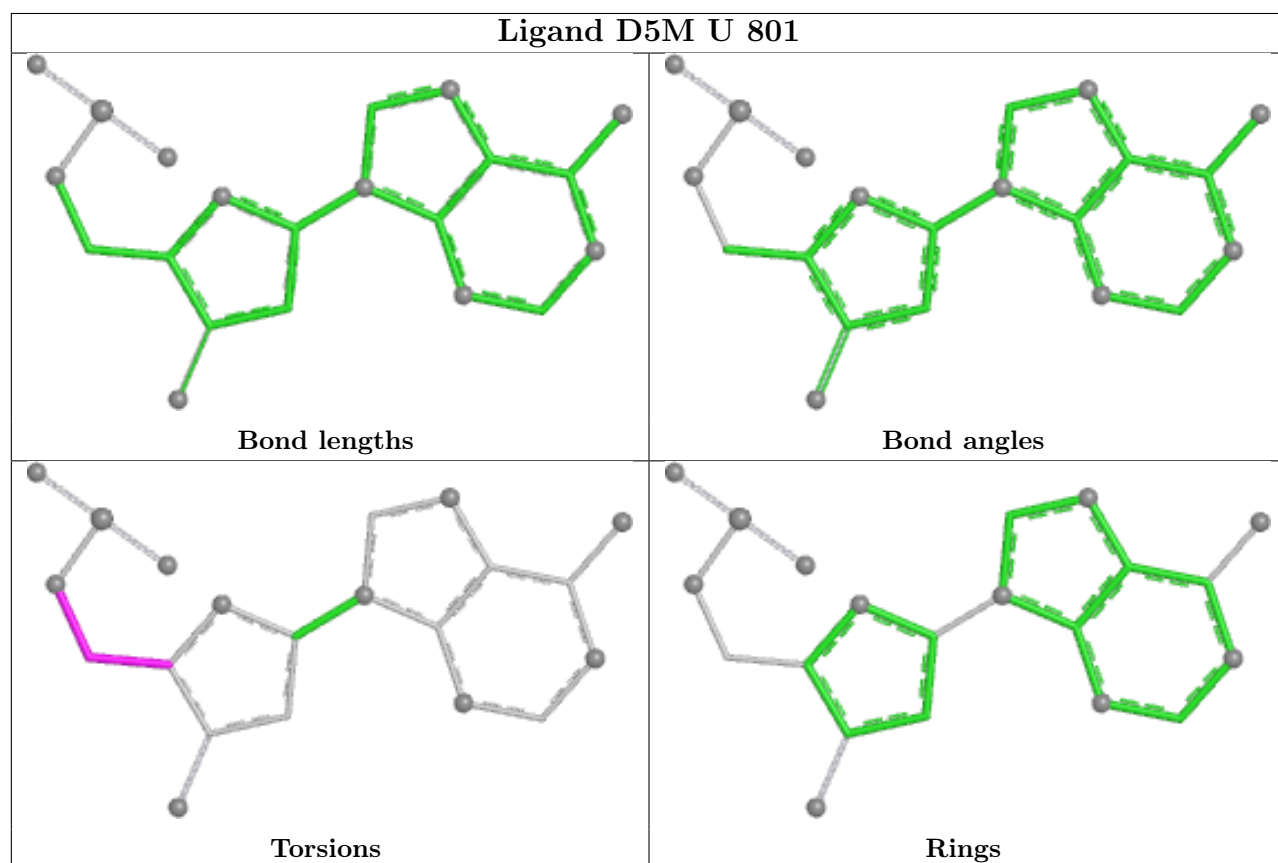
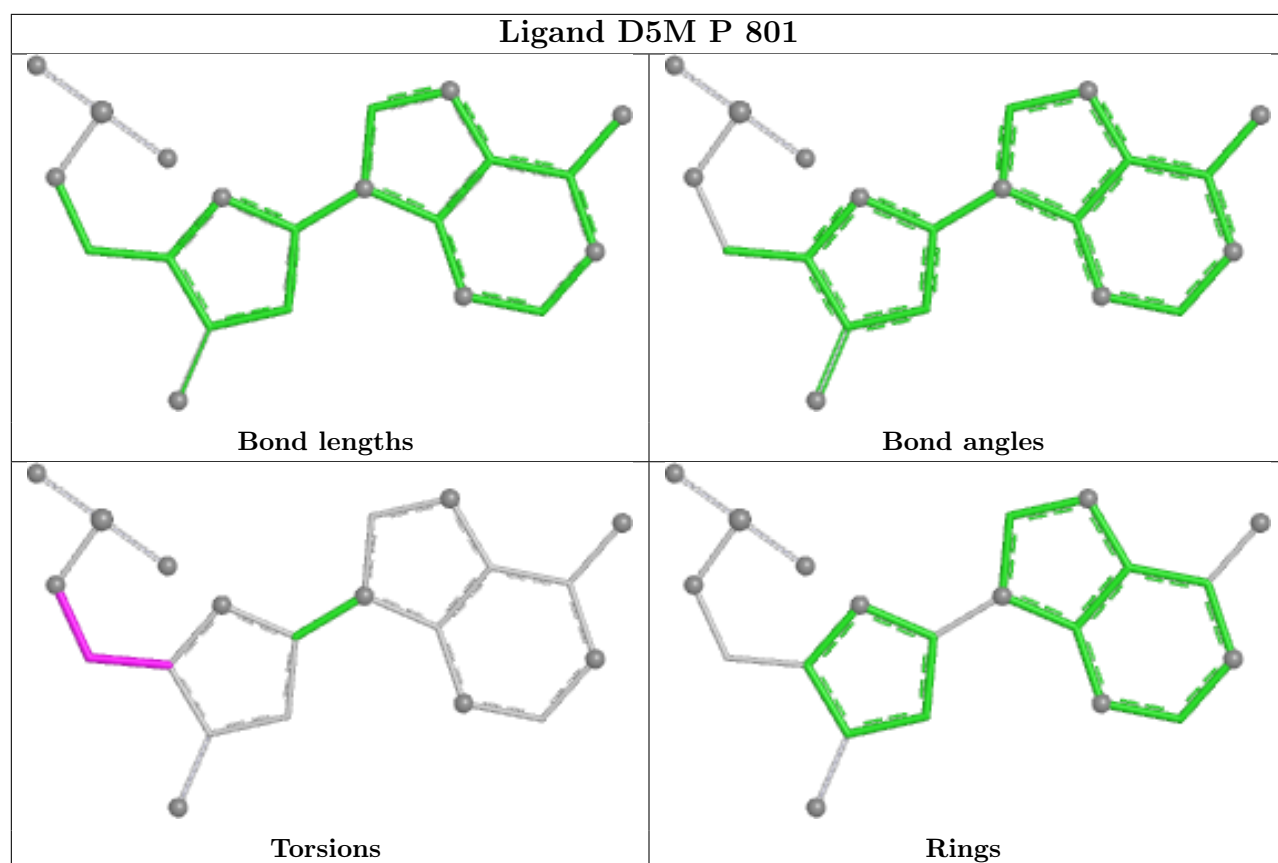


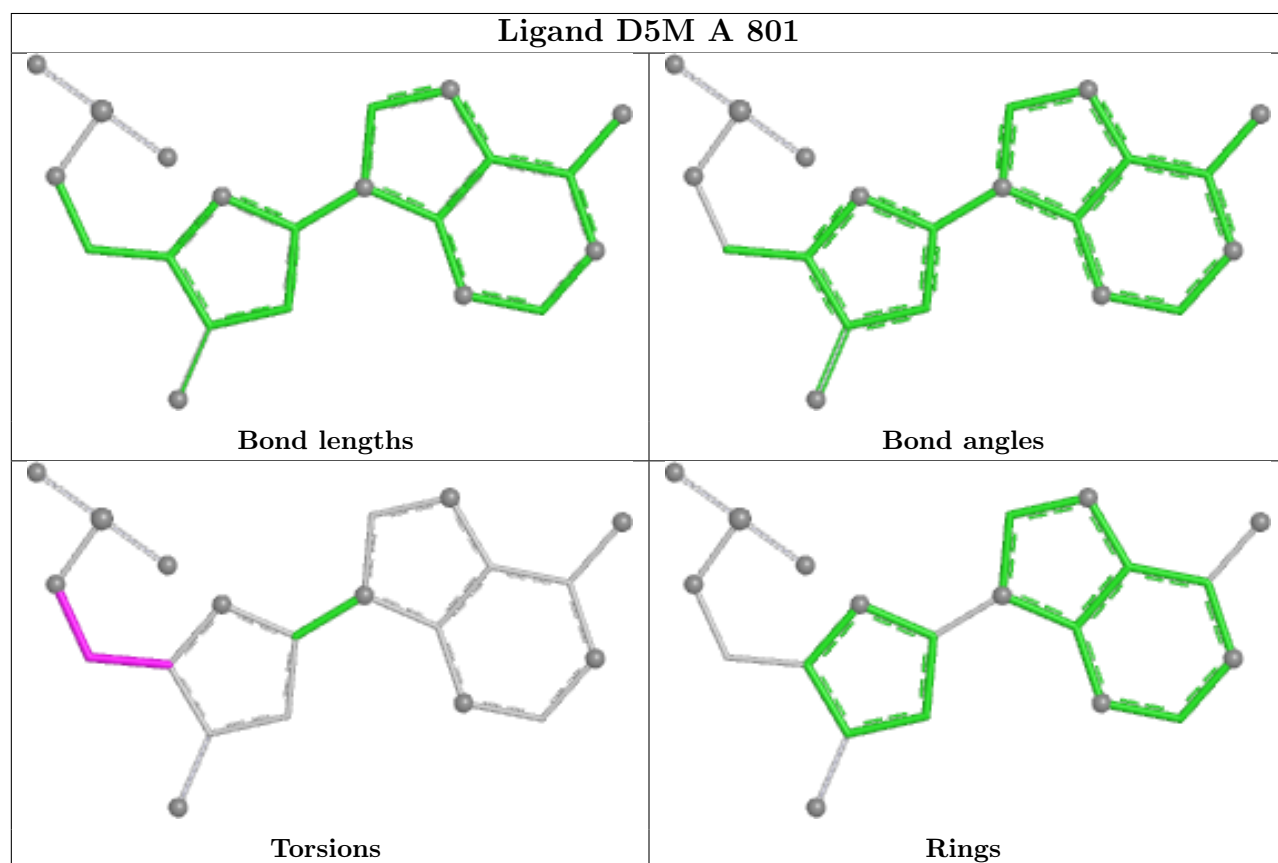
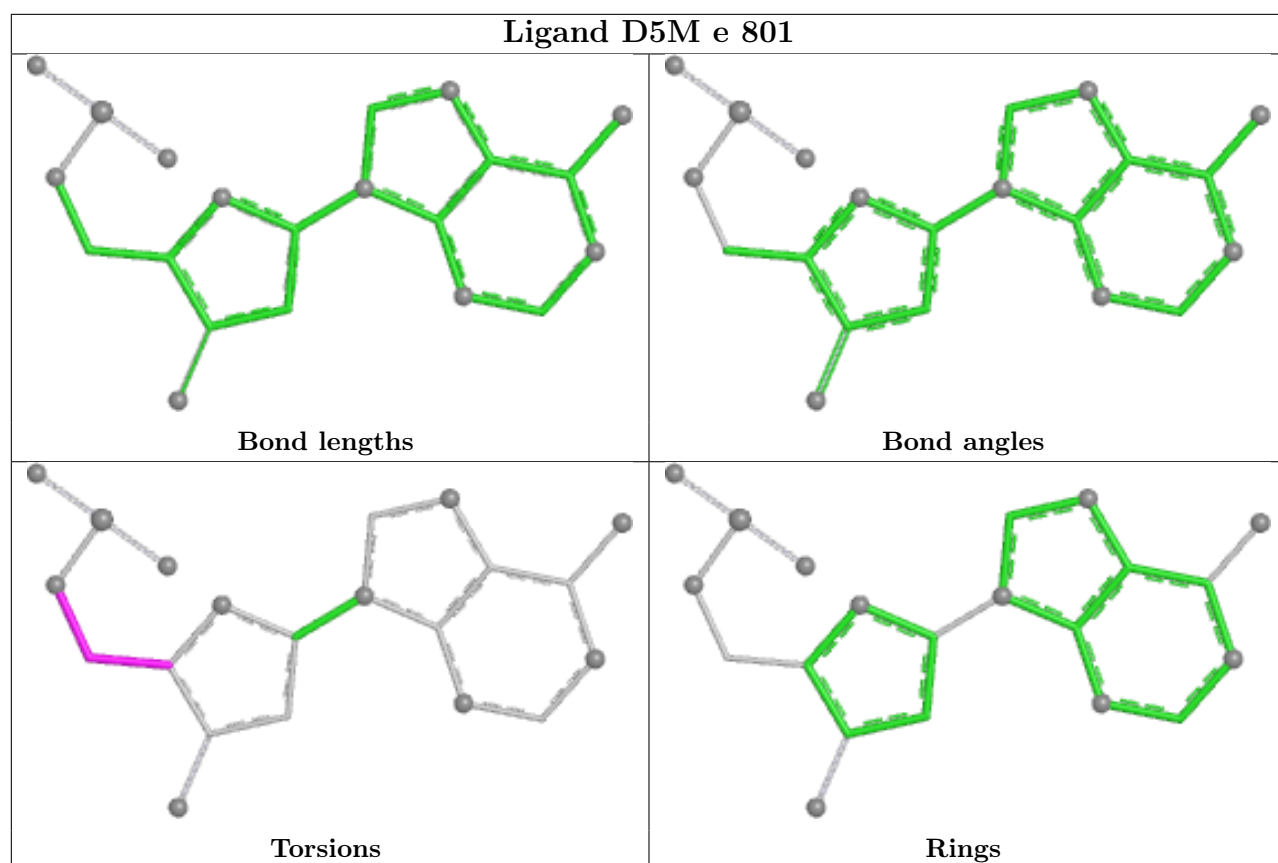


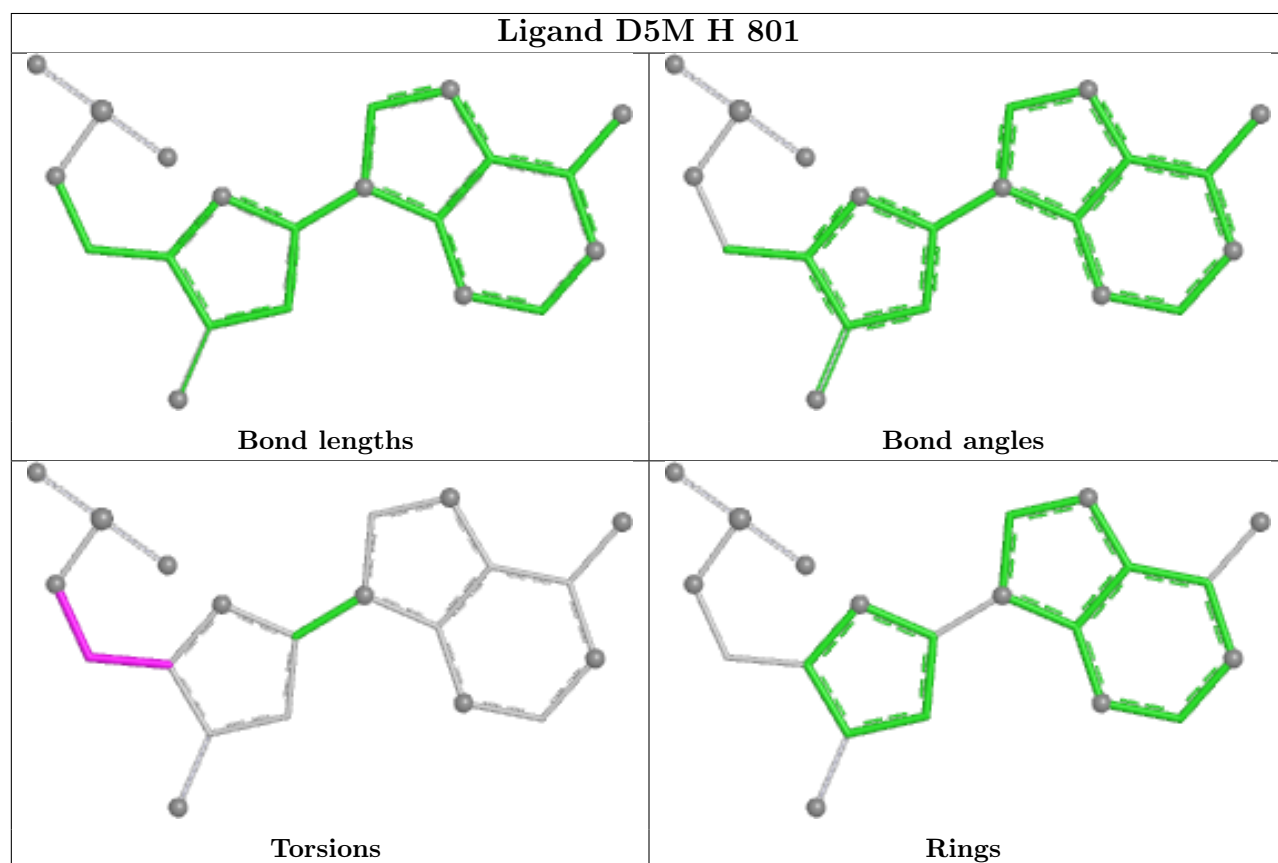
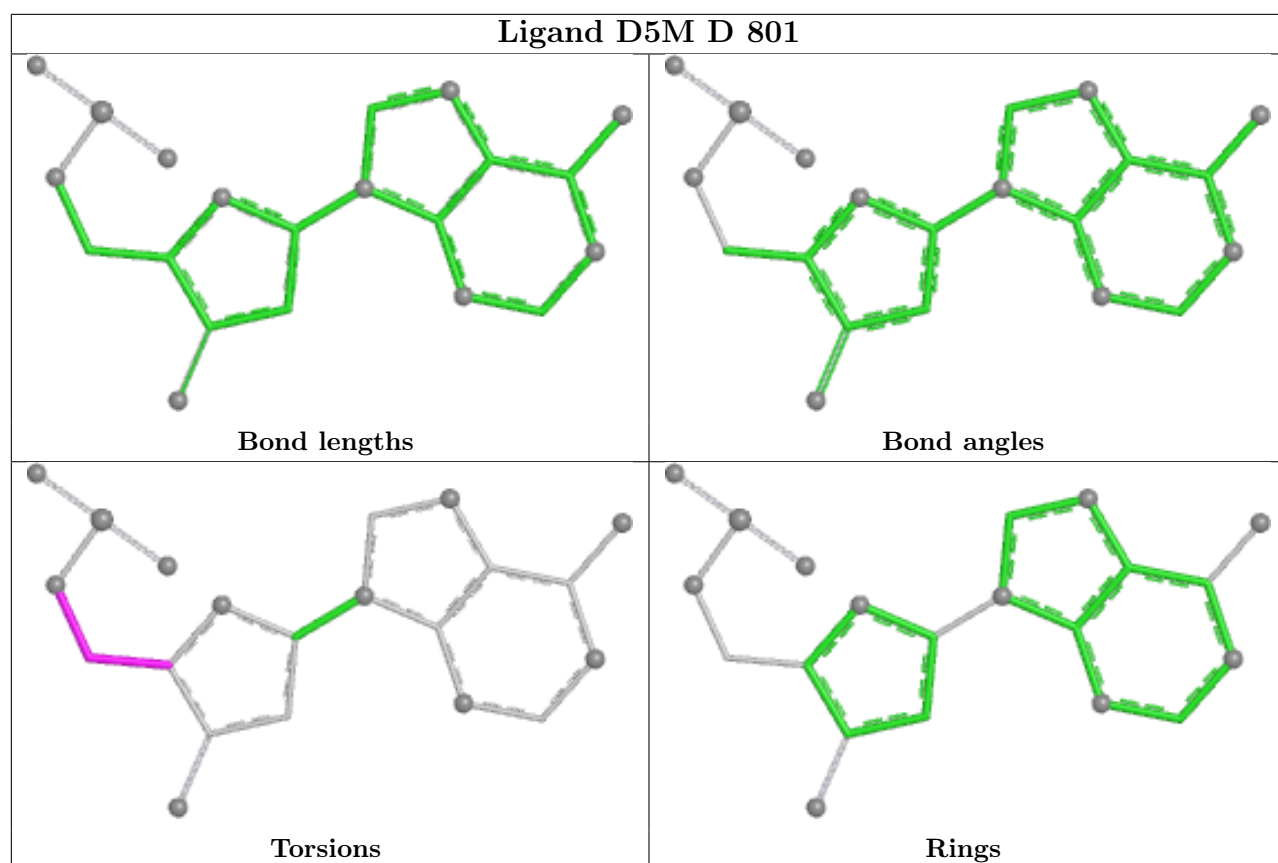


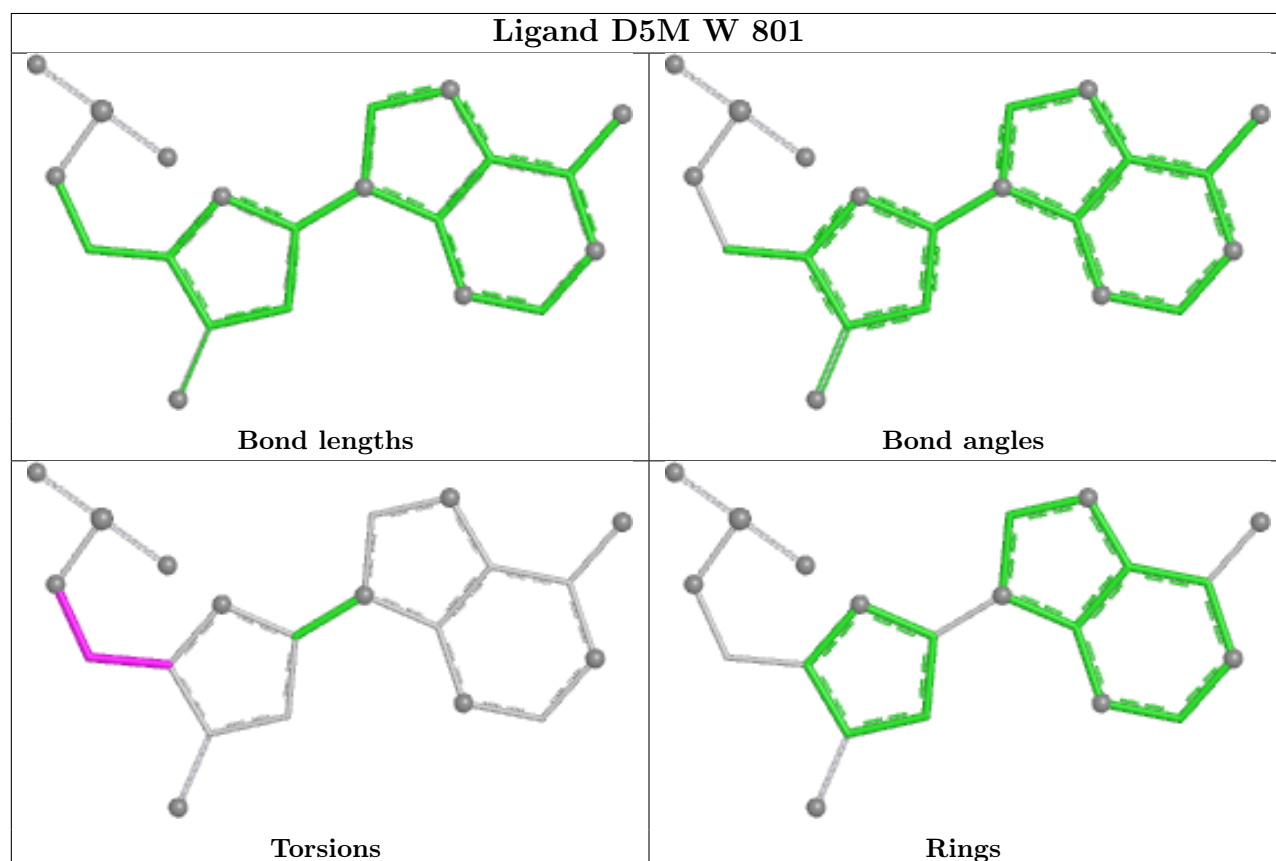
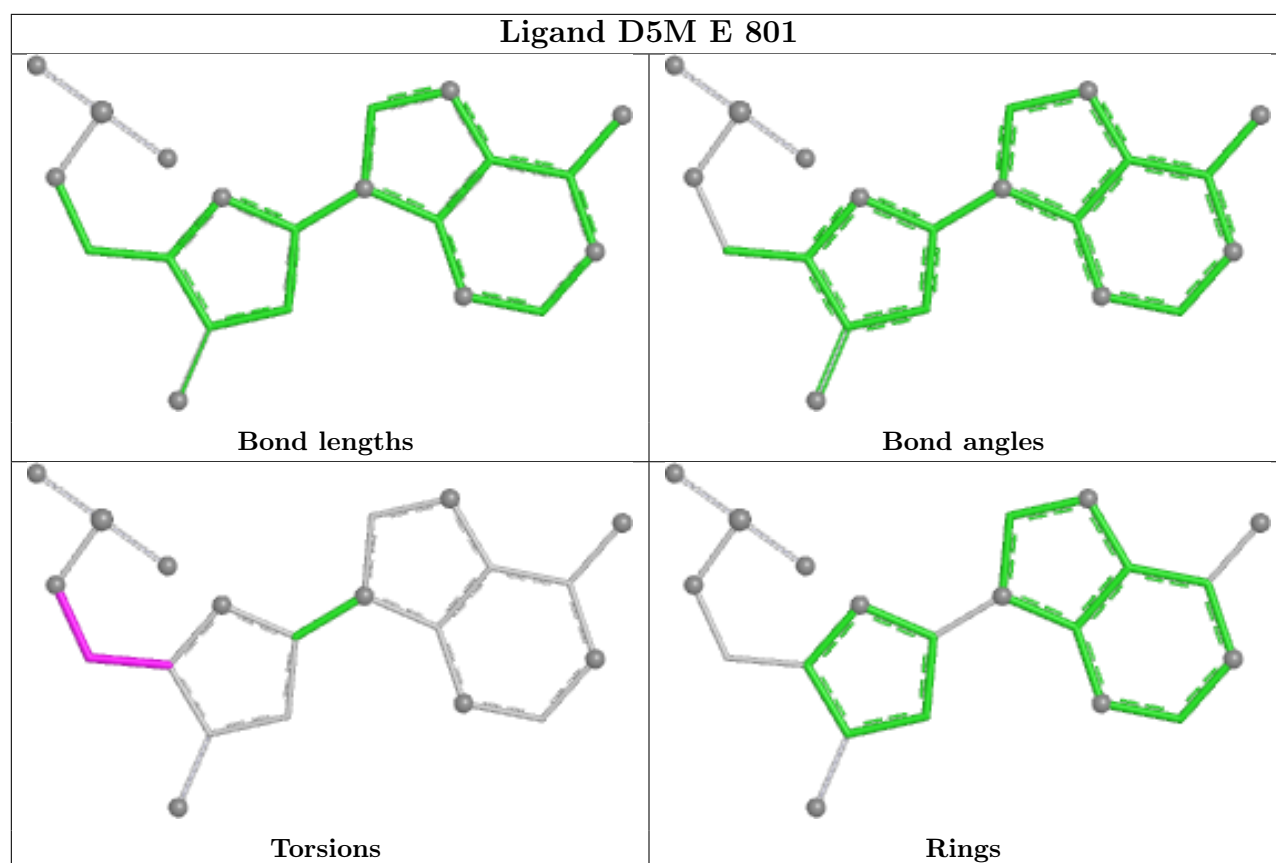


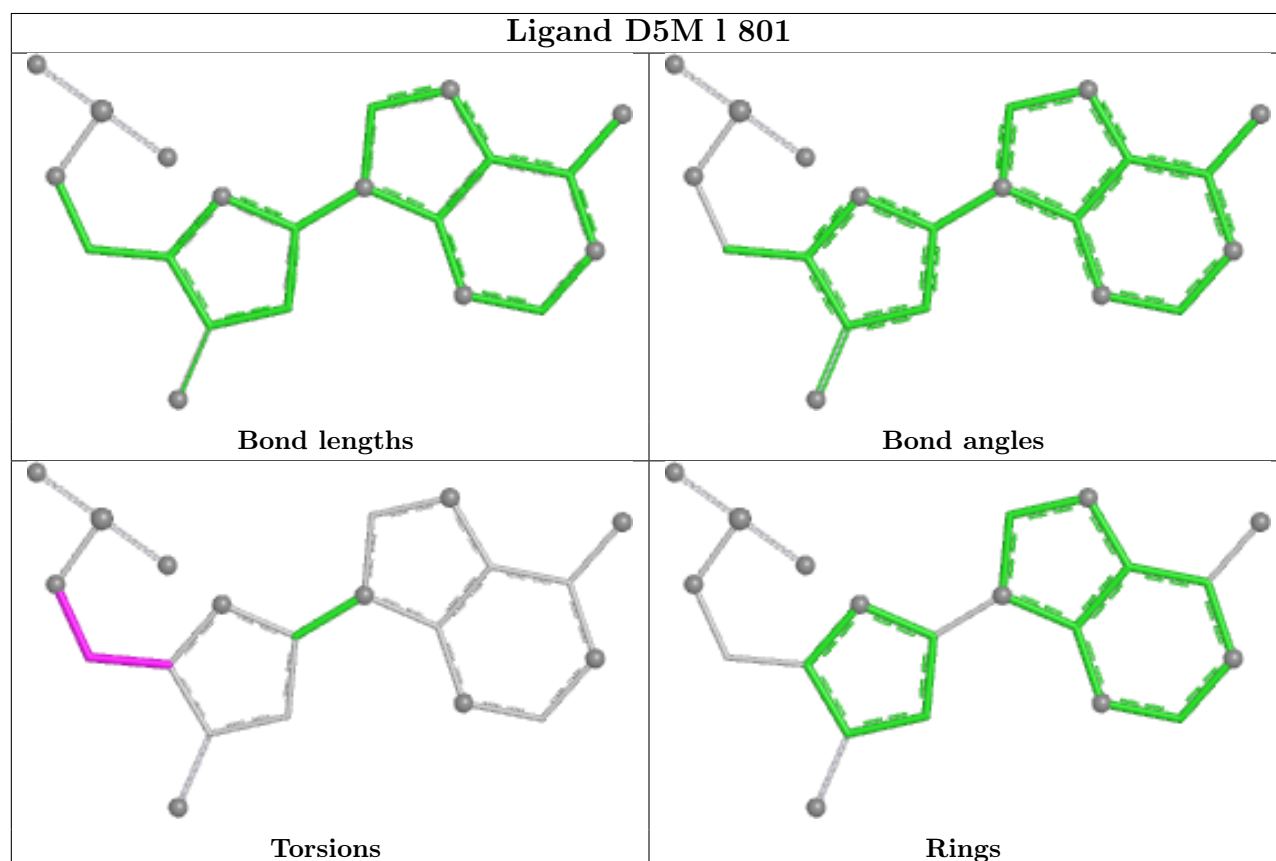
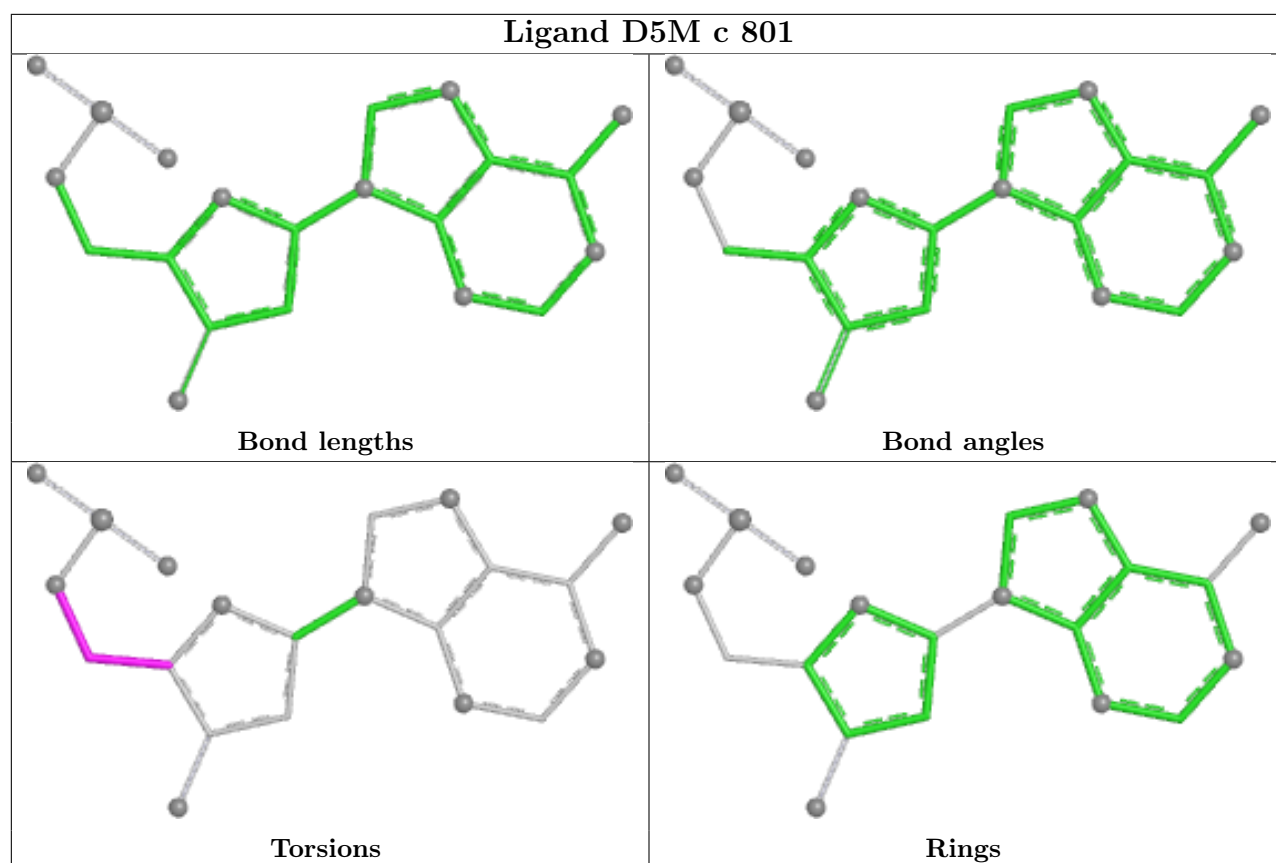




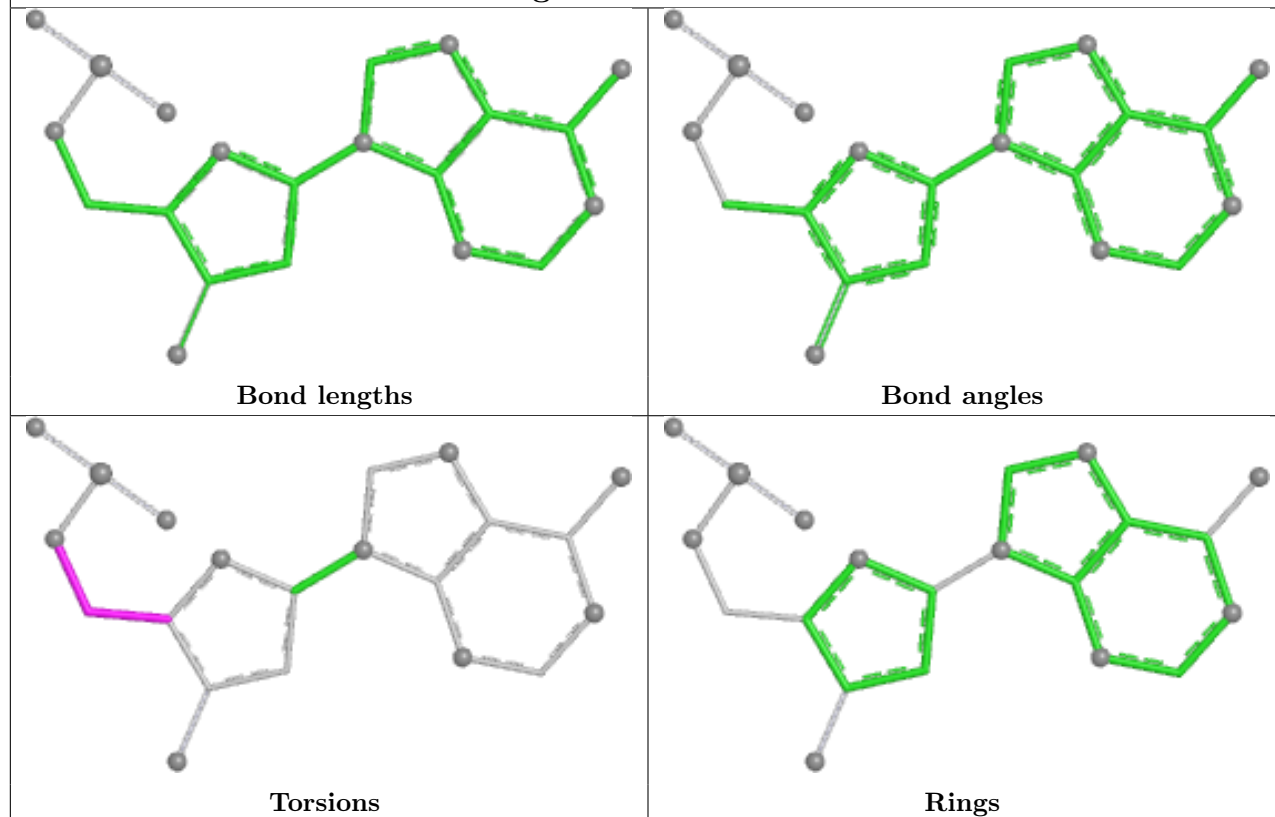




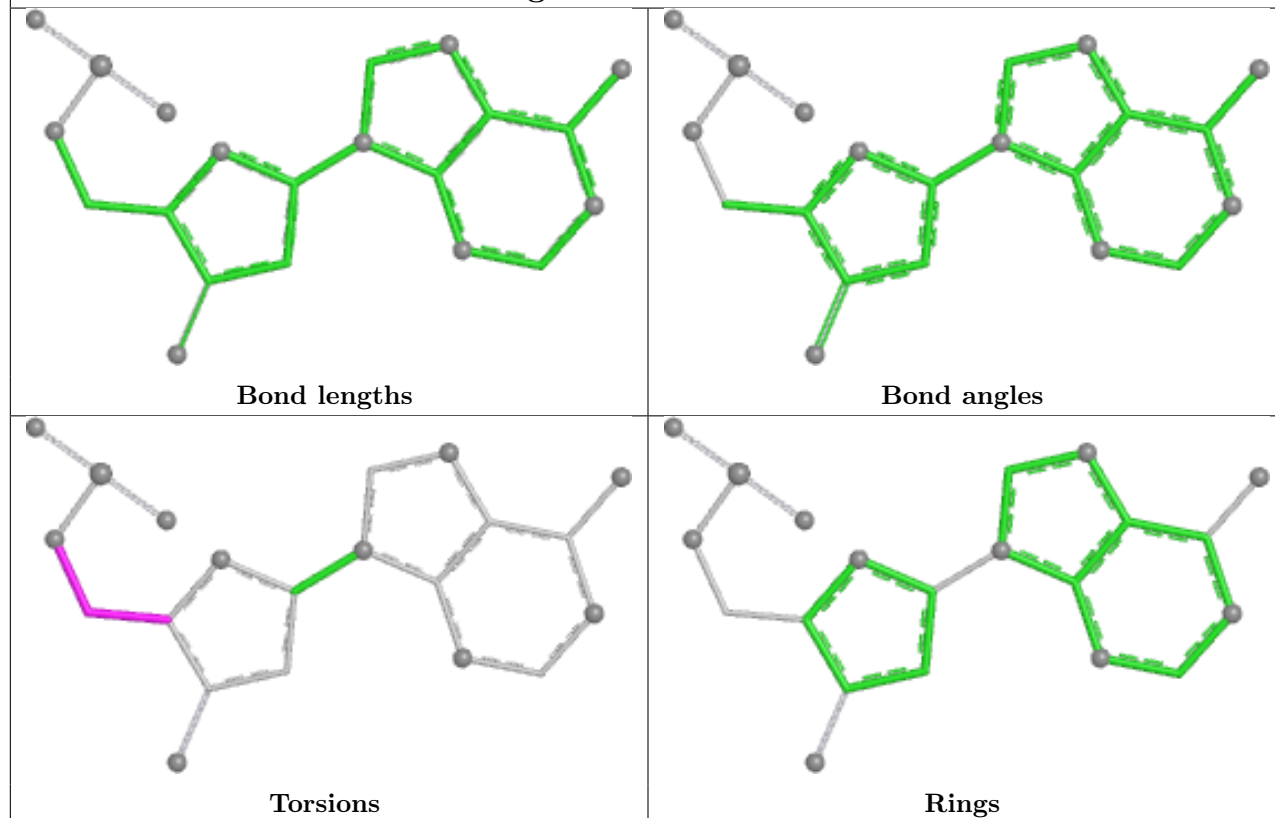


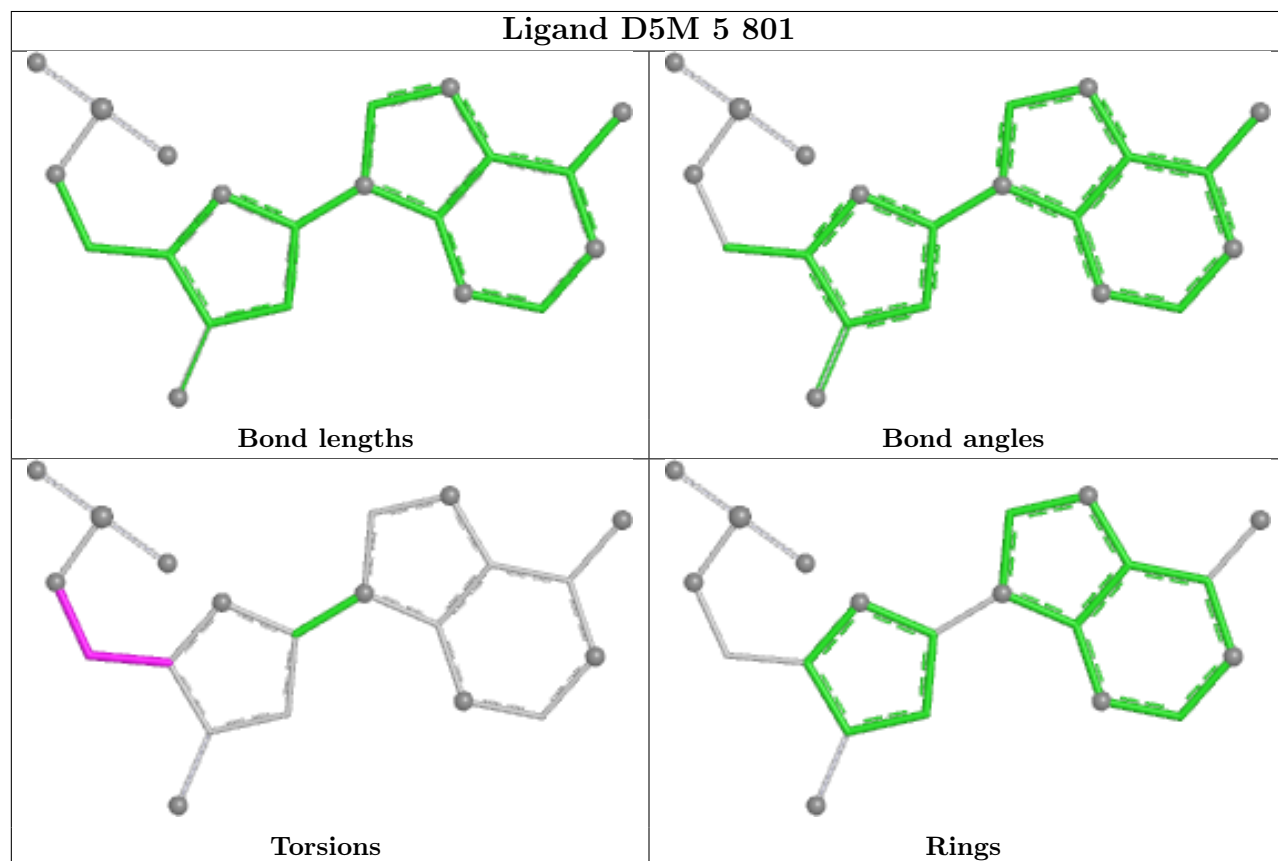
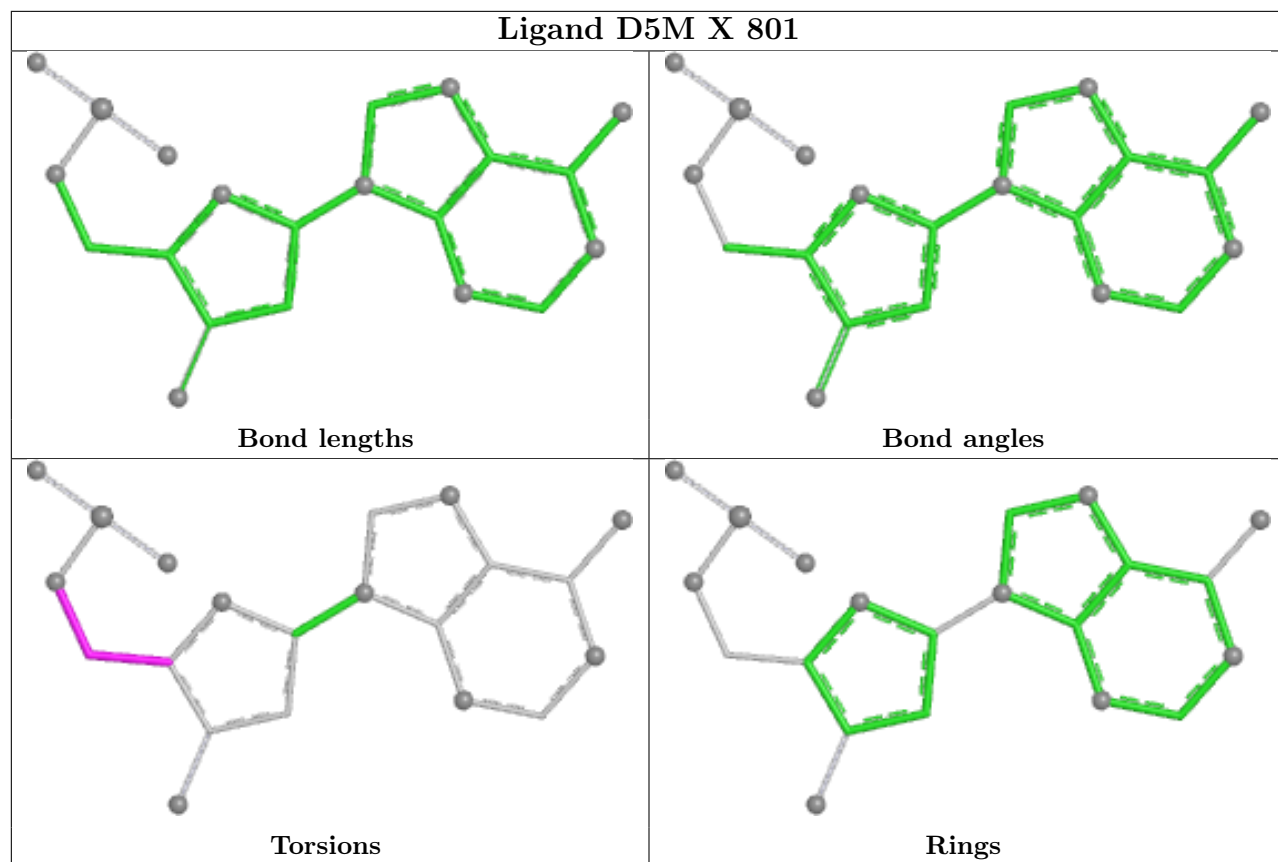


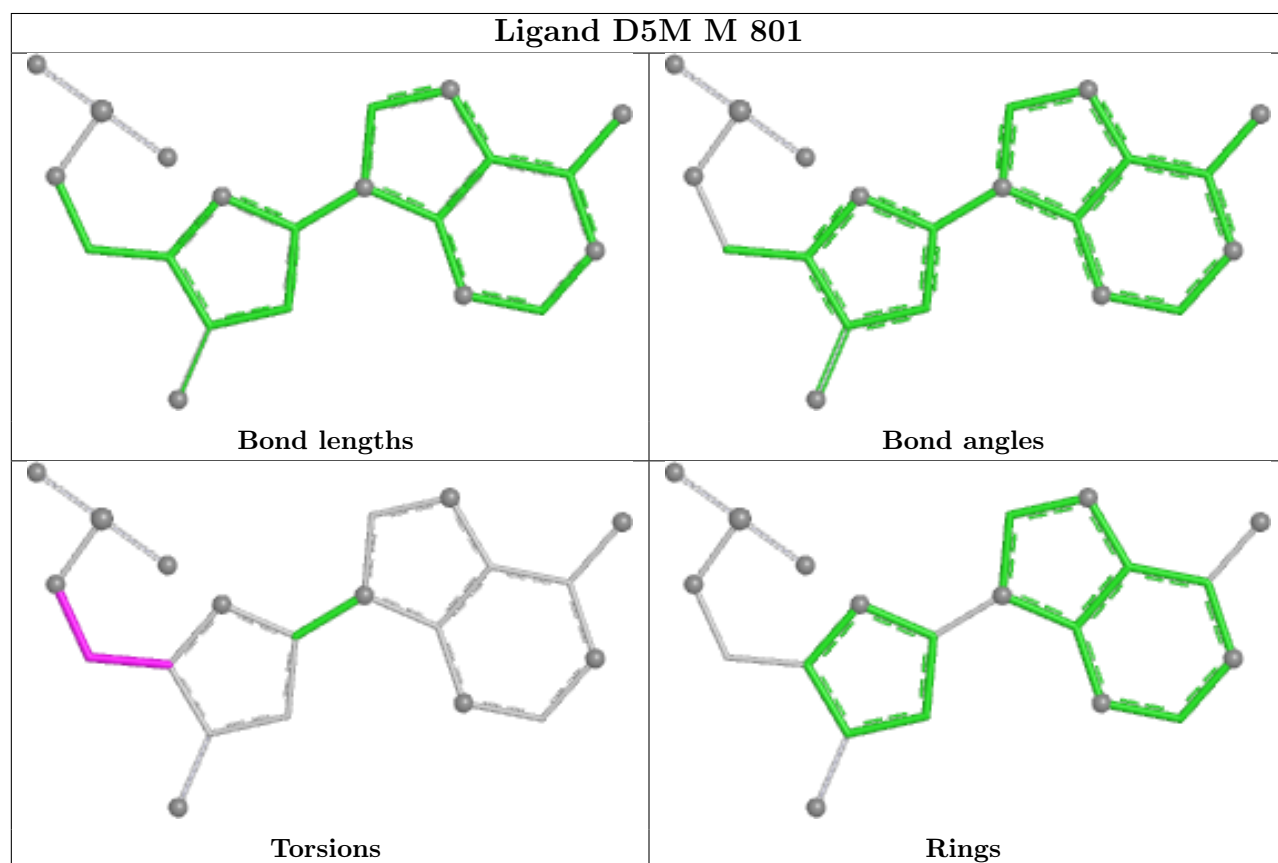
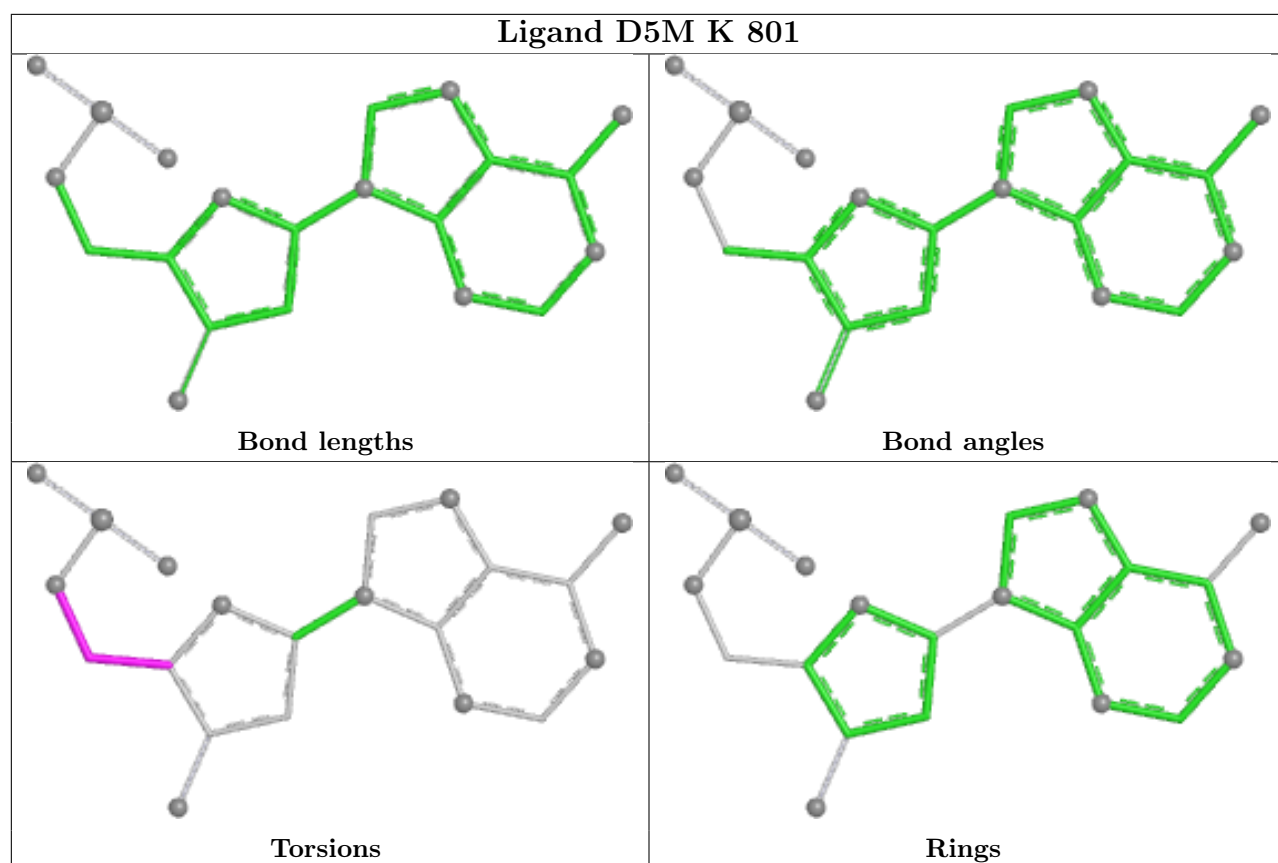
Ligand D5M 3 801

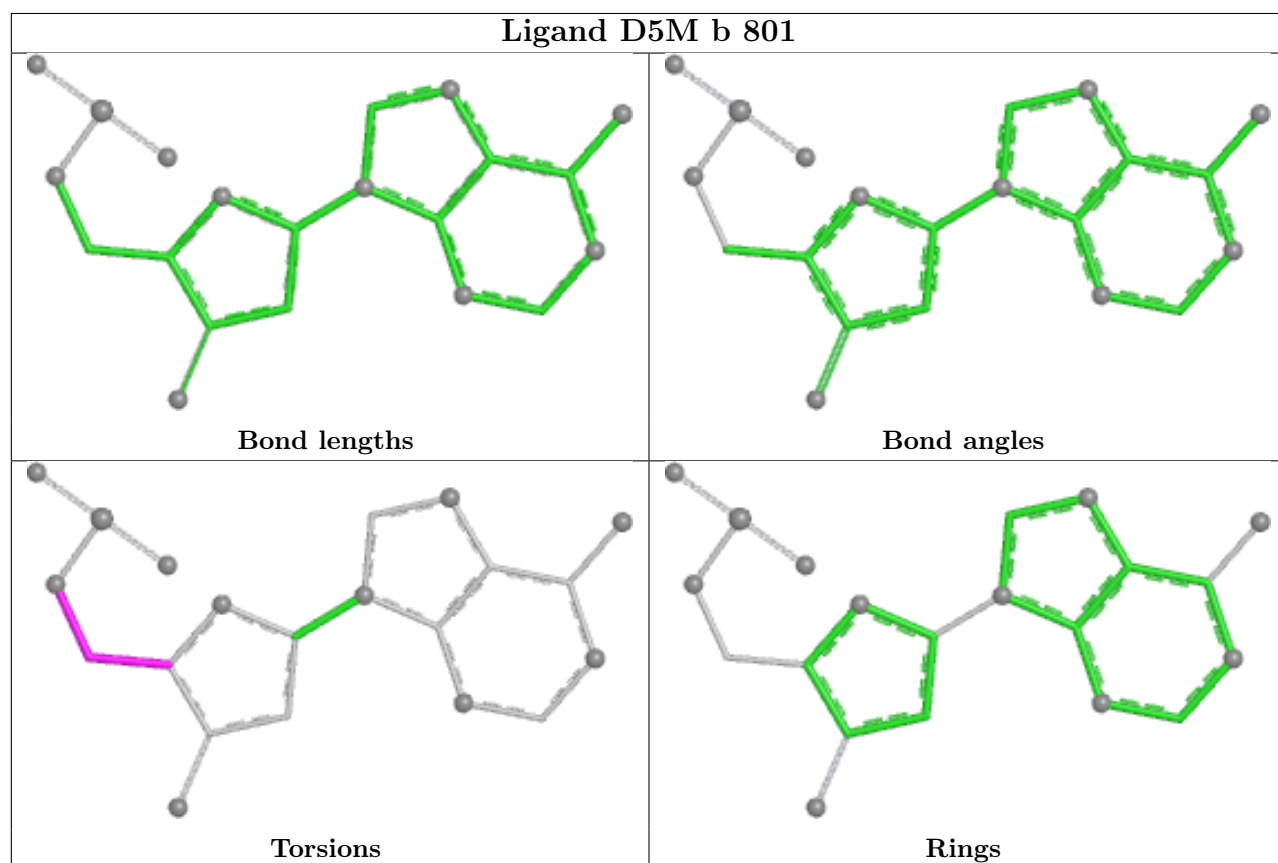
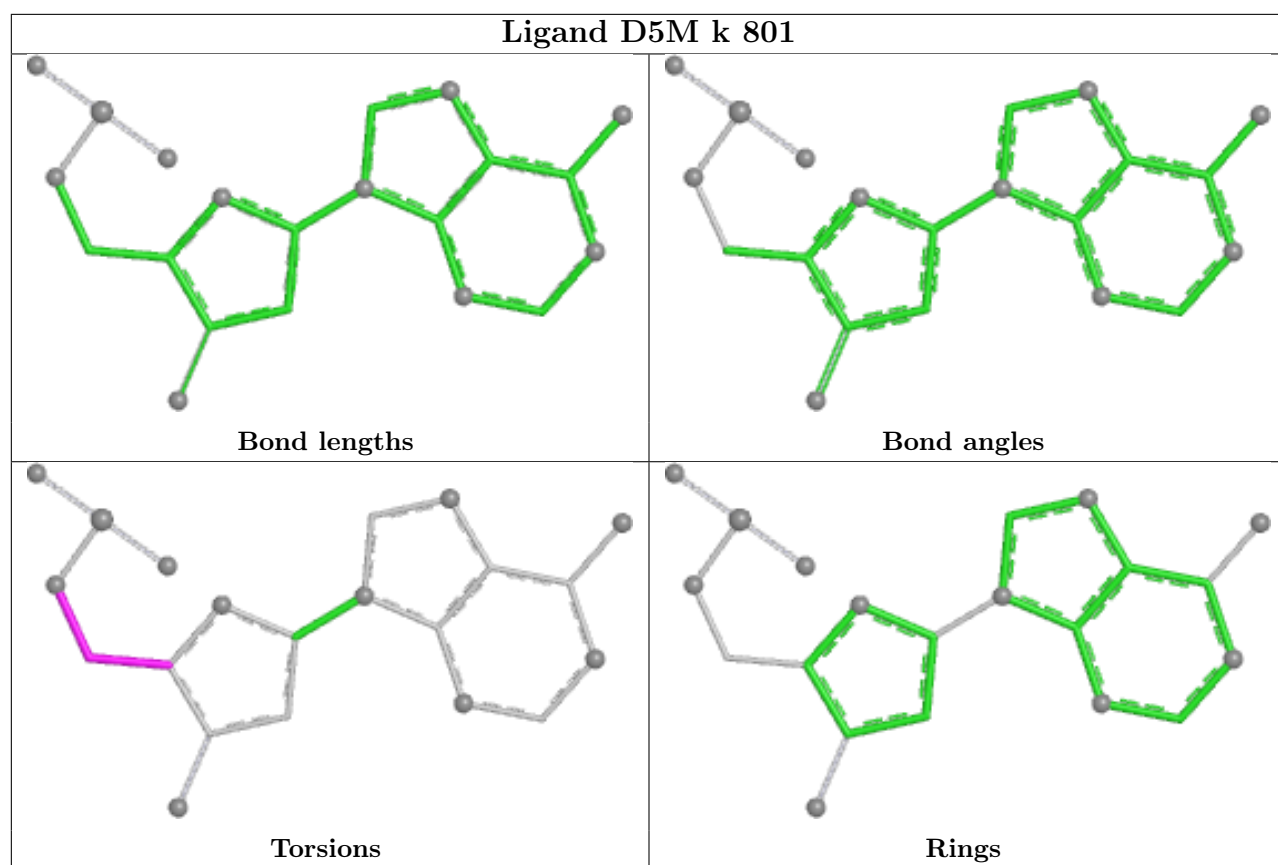


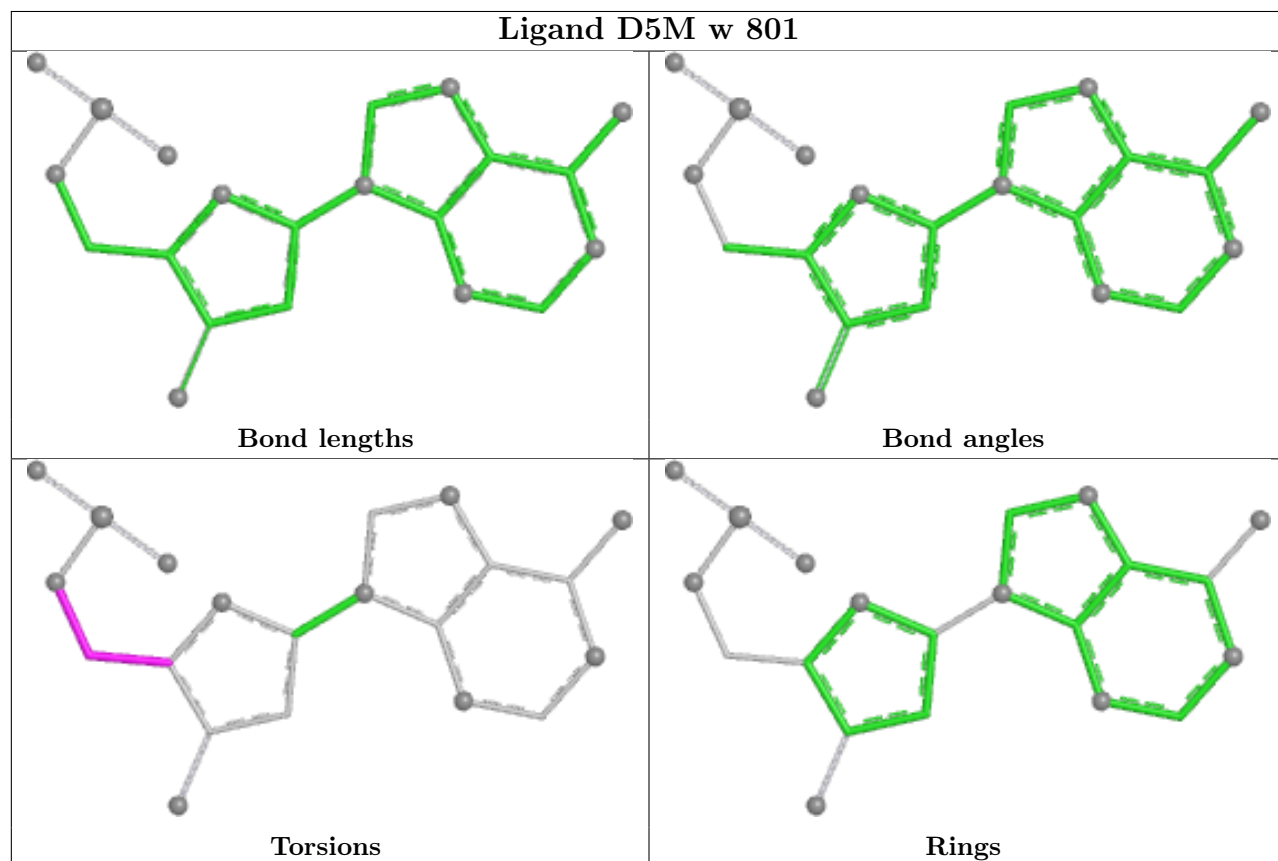
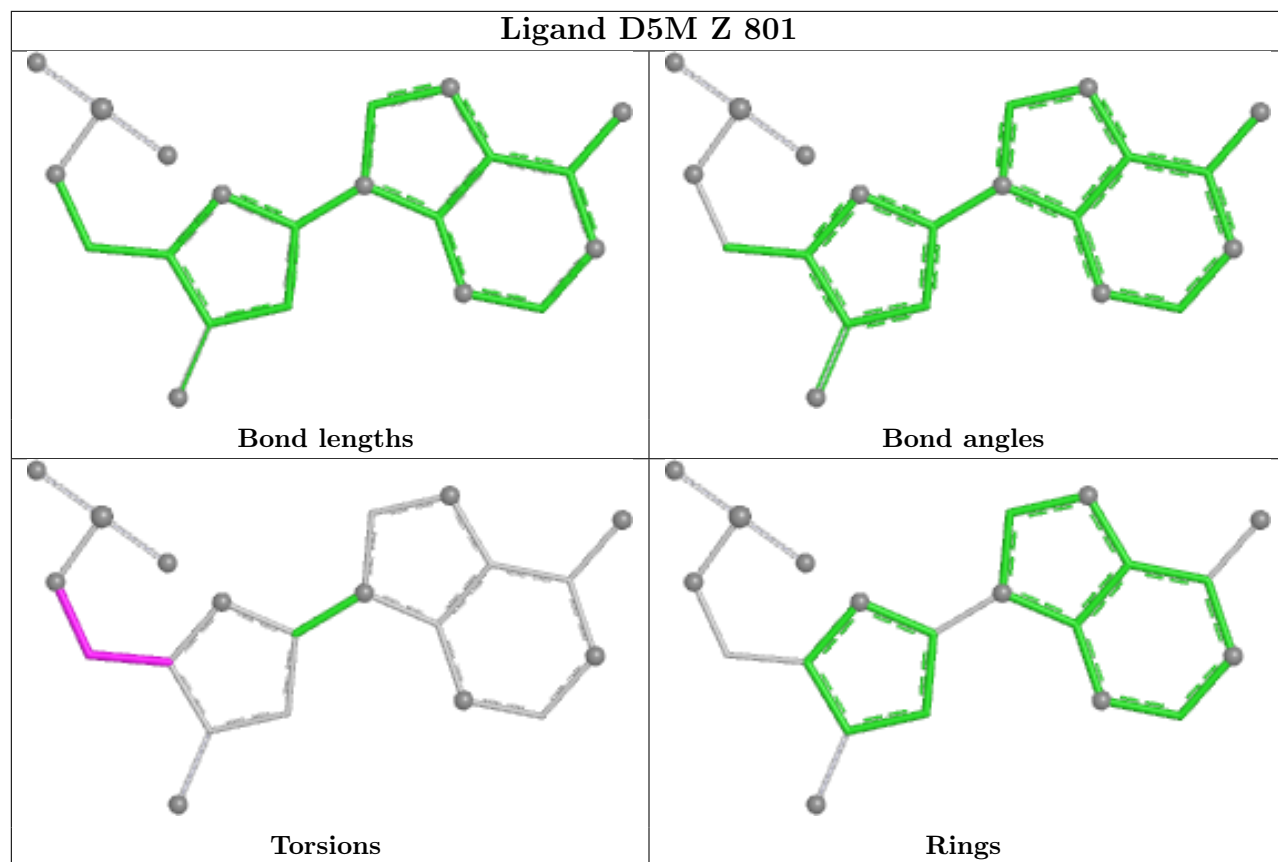
Ligand D5M G 801

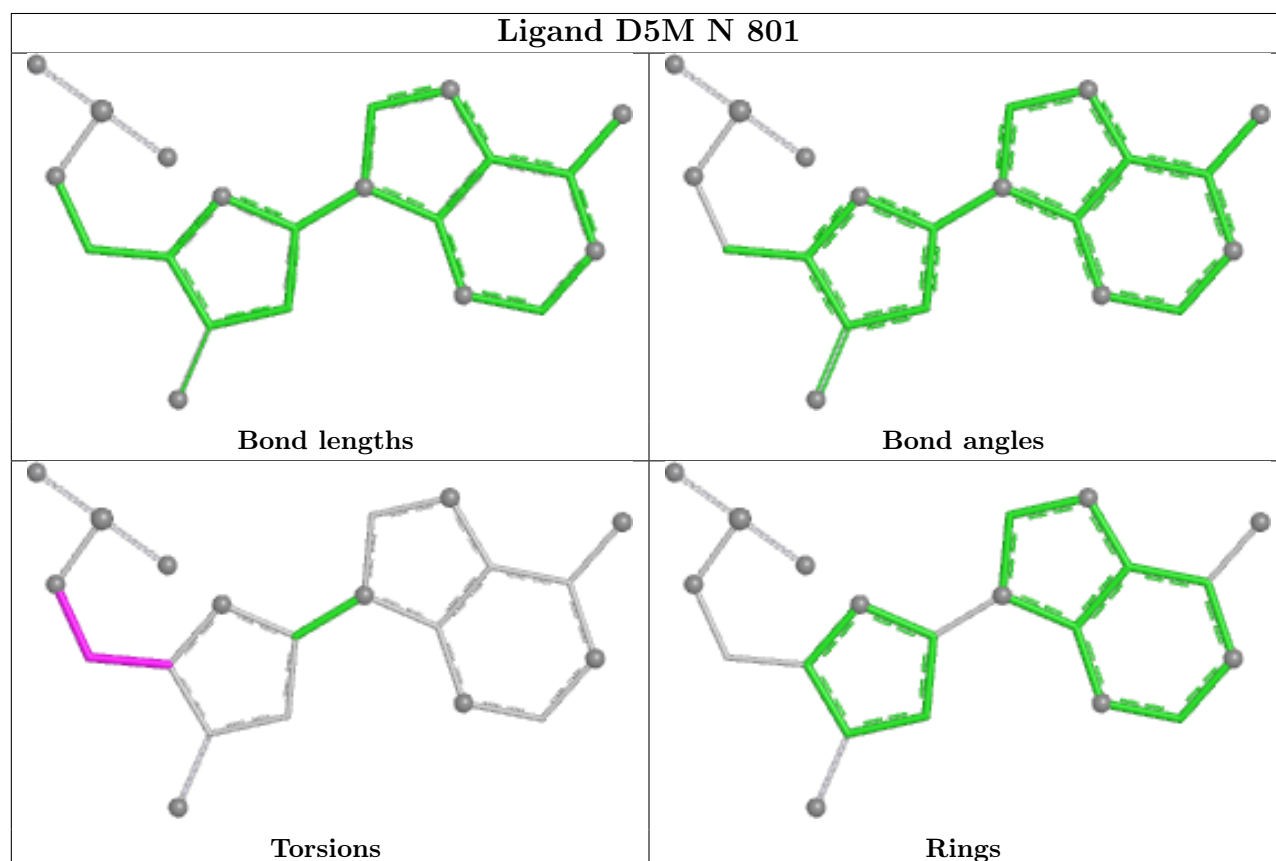
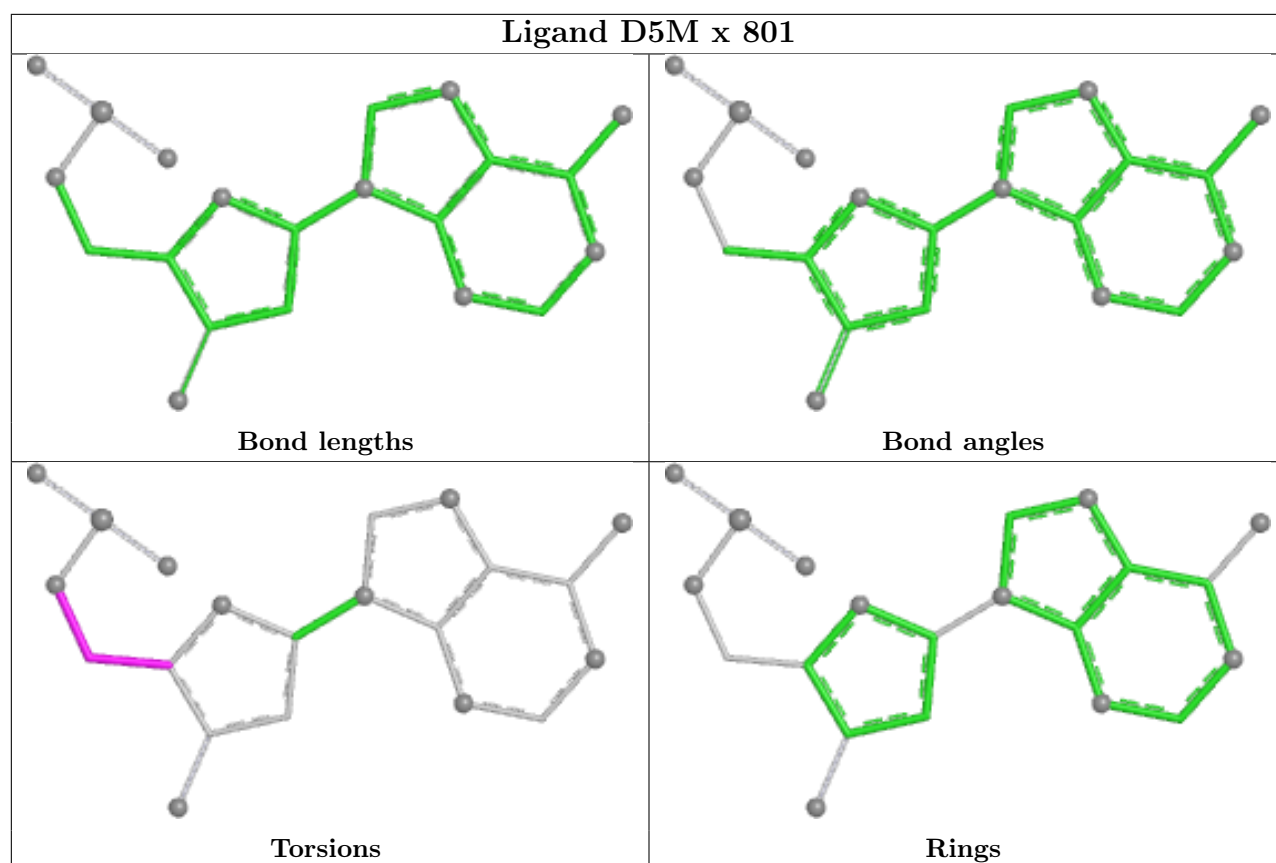


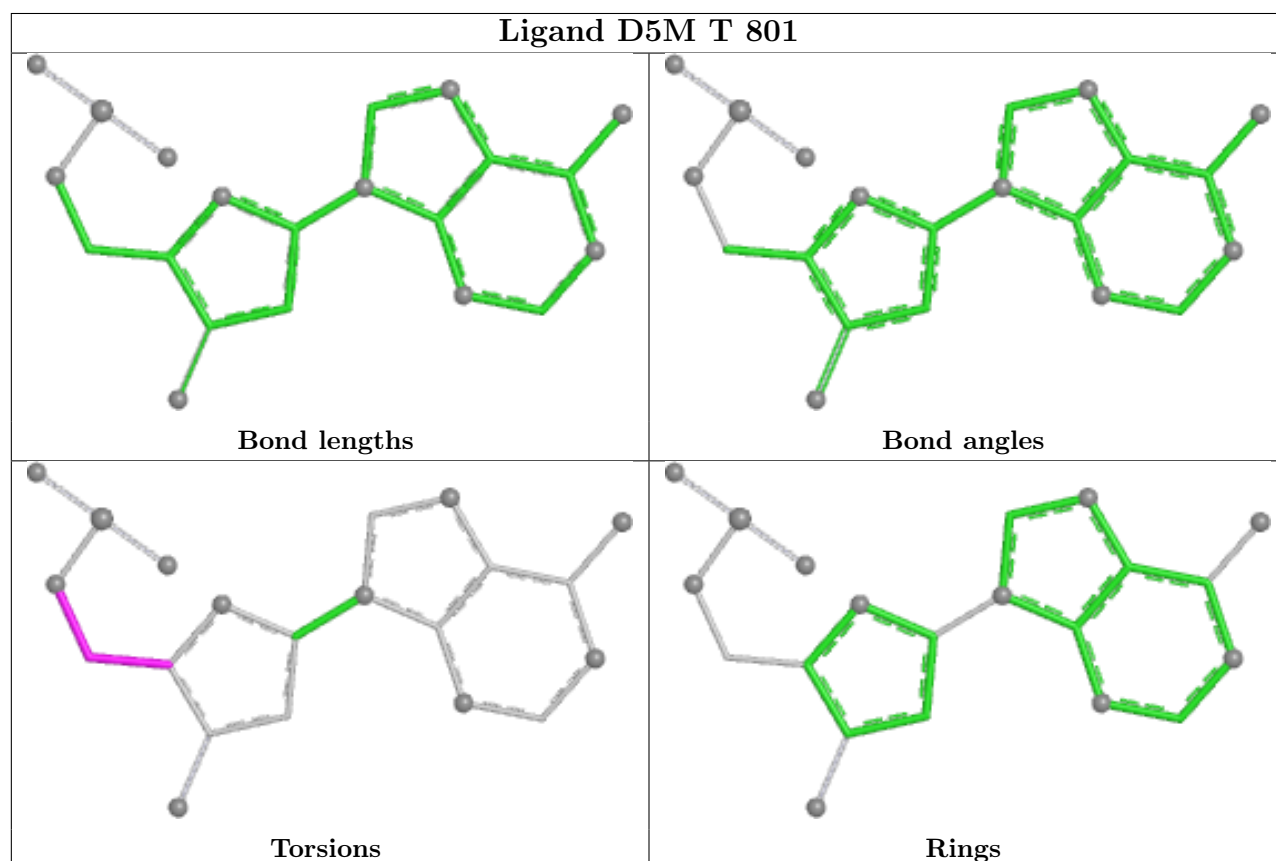
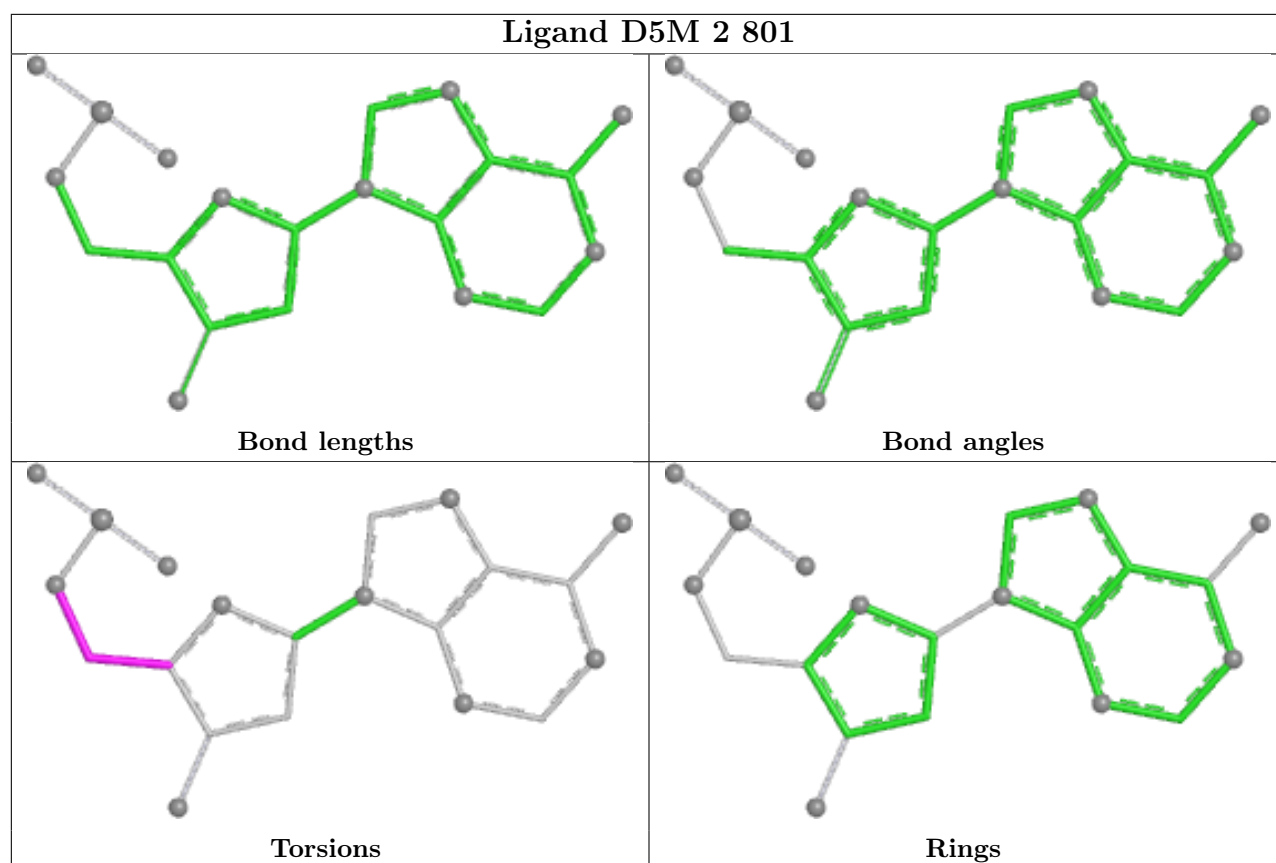












5.7 Other polymers [i](#)

There are no such residues in this entry.

5.8 Polymer linkage issues [i](#)

There are no chain breaks in this entry.

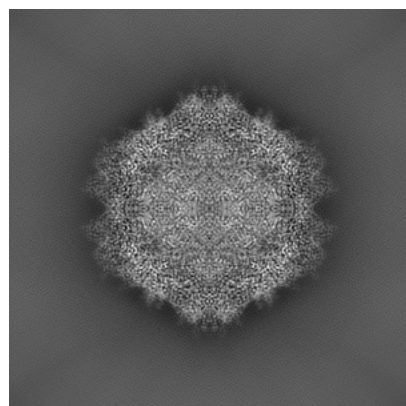
6 Map visualisation [i](#)

This section contains visualisations of the EMDB entry EMD-41209. These allow visual inspection of the internal detail of the map and identification of artifacts.

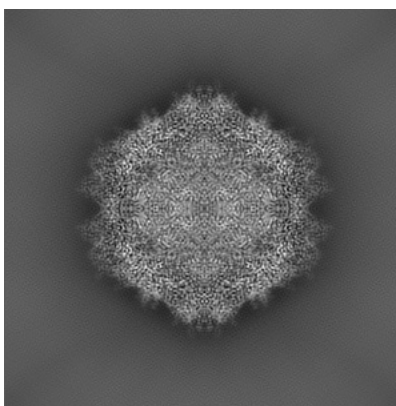
Images derived from a raw map, generated by summing the deposited half-maps, are presented below the corresponding image components of the primary map to allow further visual inspection and comparison with those of the primary map.

6.1 Orthogonal projections [i](#)

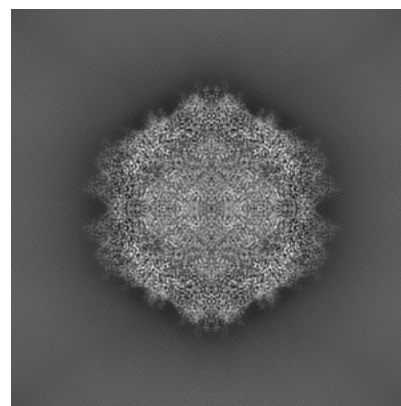
6.1.1 Primary map



X

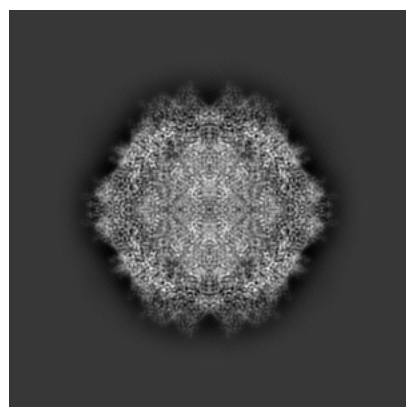


Y

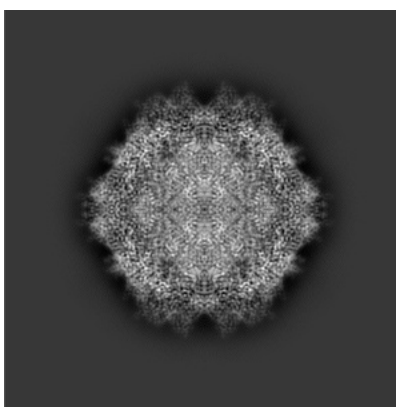


Z

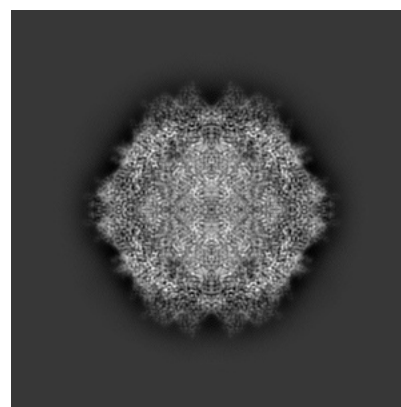
6.1.2 Raw map



X



Y

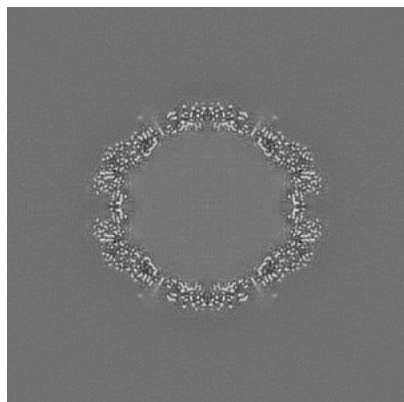


Z

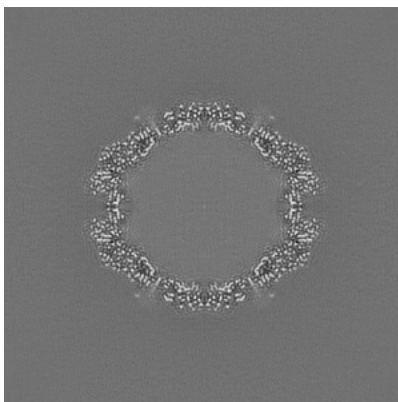
The images above show the map projected in three orthogonal directions.

6.2 Central slices [i](#)

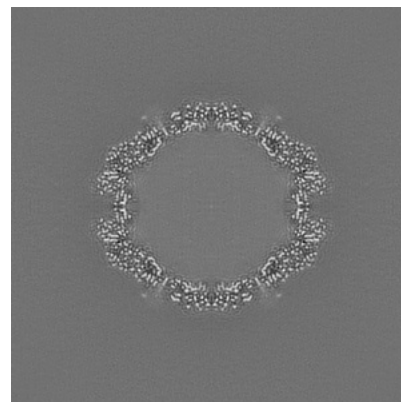
6.2.1 Primary map



X Index: 210

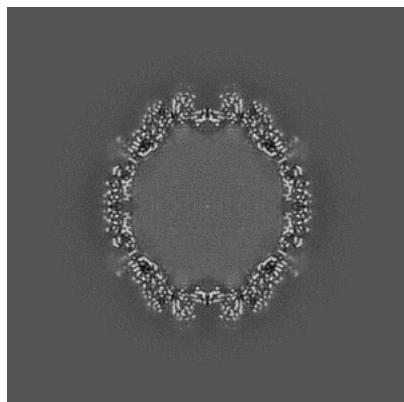


Y Index: 210

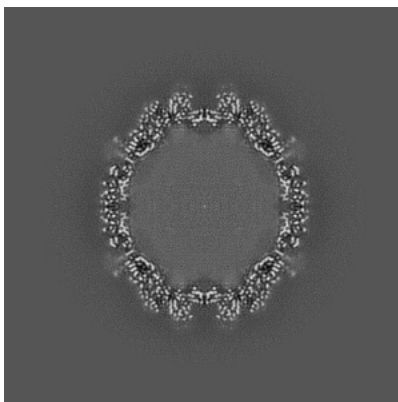


Z Index: 210

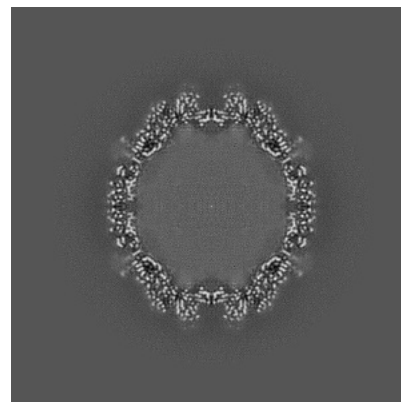
6.2.2 Raw map



X Index: 210



Y Index: 210

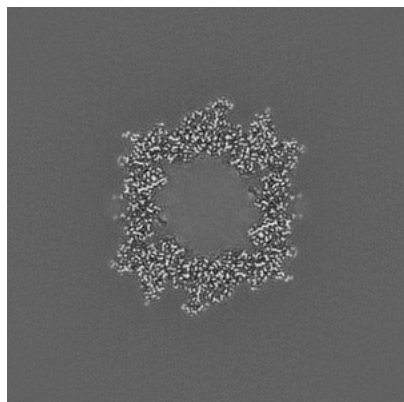


Z Index: 210

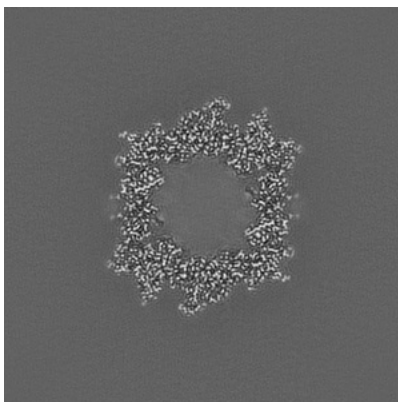
The images above show central slices of the map in three orthogonal directions.

6.3 Largest variance slices [i](#)

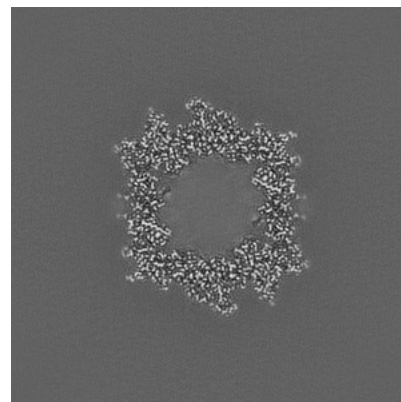
6.3.1 Primary map



X Index: 272

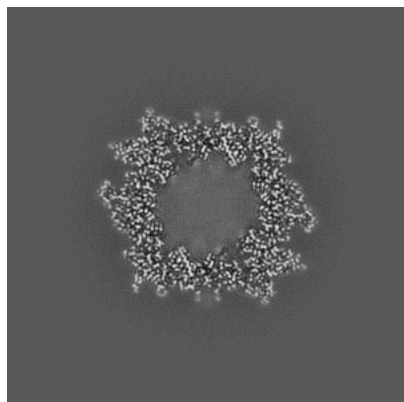


Y Index: 272

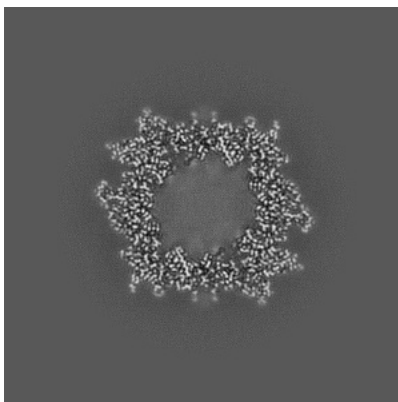


Z Index: 148

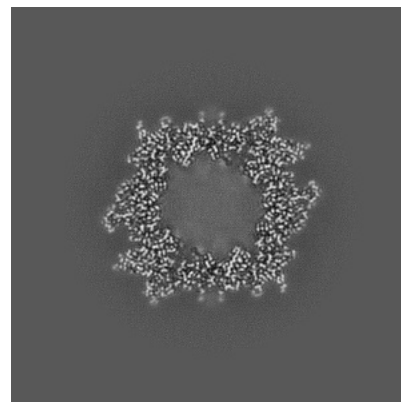
6.3.2 Raw map



X Index: 148



Y Index: 148

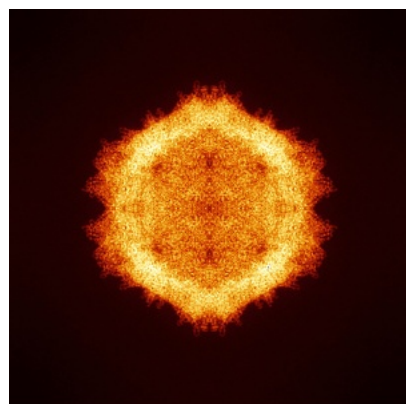


Z Index: 272

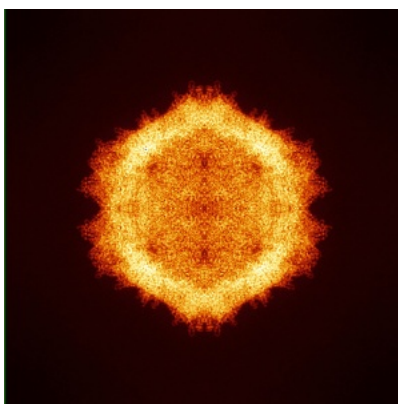
The images above show the largest variance slices of the map in three orthogonal directions.

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

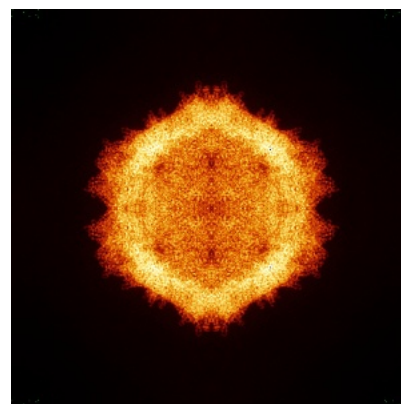
6.4.1 Primary map



X

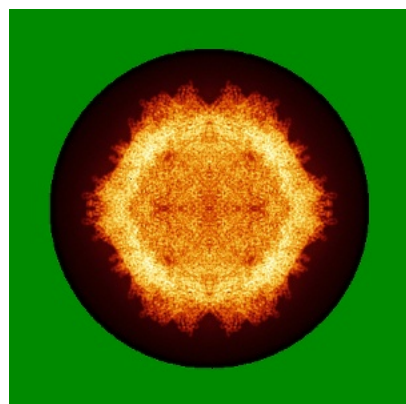


Y

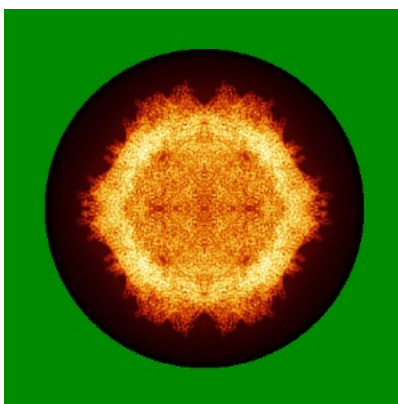


Z

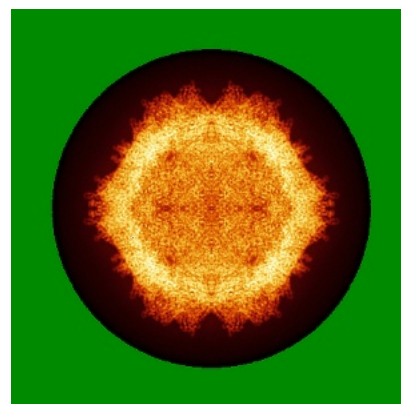
6.4.2 Raw map



X



Y

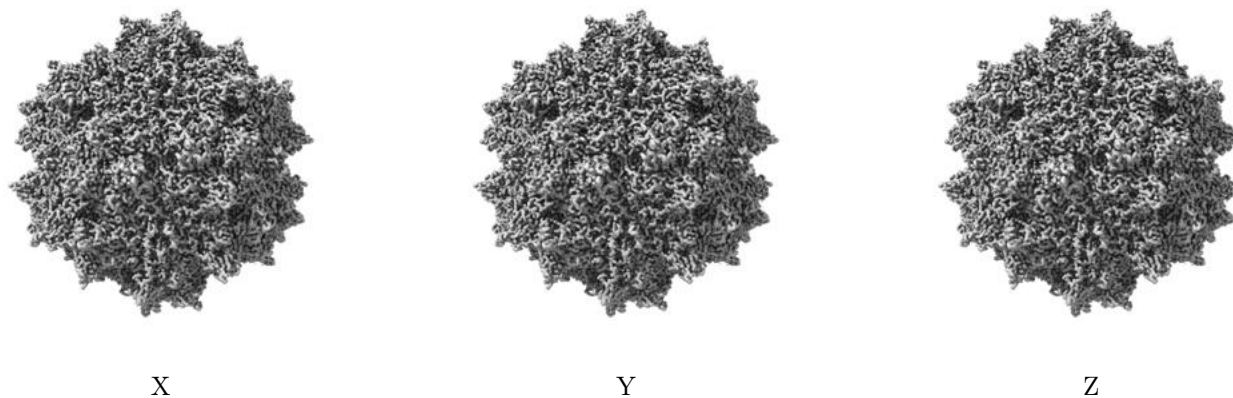


Z

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

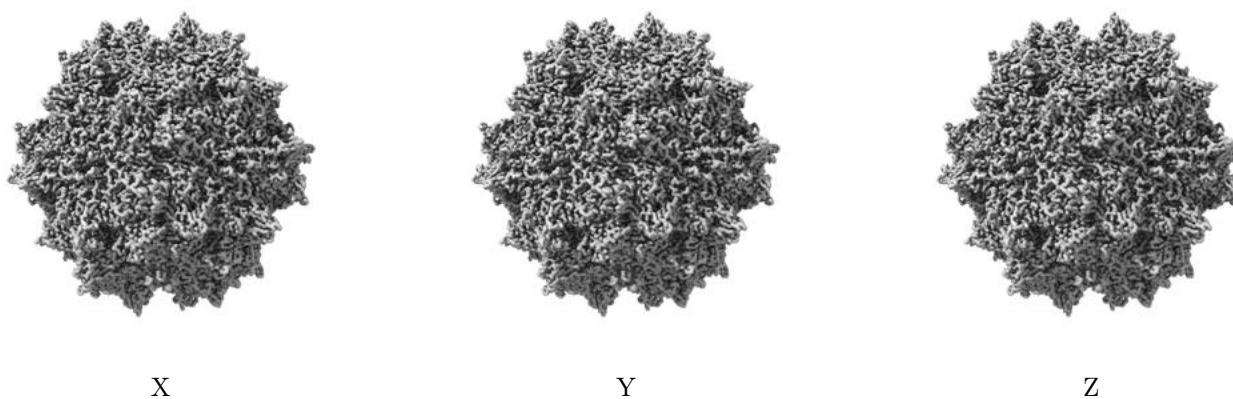
6.5 Orthogonal surface views [i](#)

6.5.1 Primary map



The images above show the 3D surface view of the map at the recommended contour level 2.0. These images, in conjunction with the slice images, may facilitate assessment of whether an appropriate contour level has been provided.

6.5.2 Raw map



These images show the 3D surface of the raw map. The raw map's contour level was selected so that its surface encloses the same volume as the primary map does at its recommended contour level.

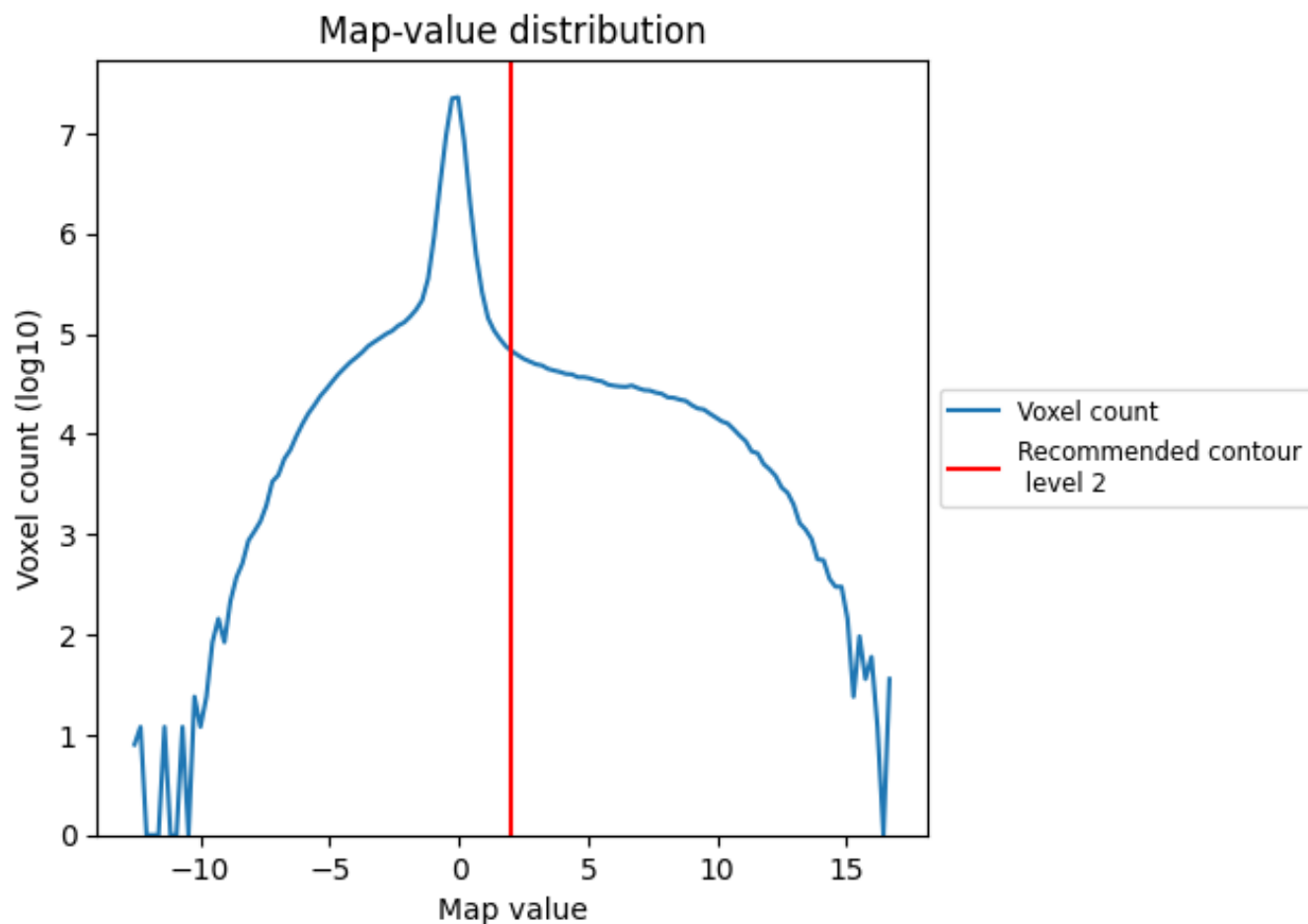
6.6 Mask visualisation [i](#)

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

7 Map analysis [i](#)

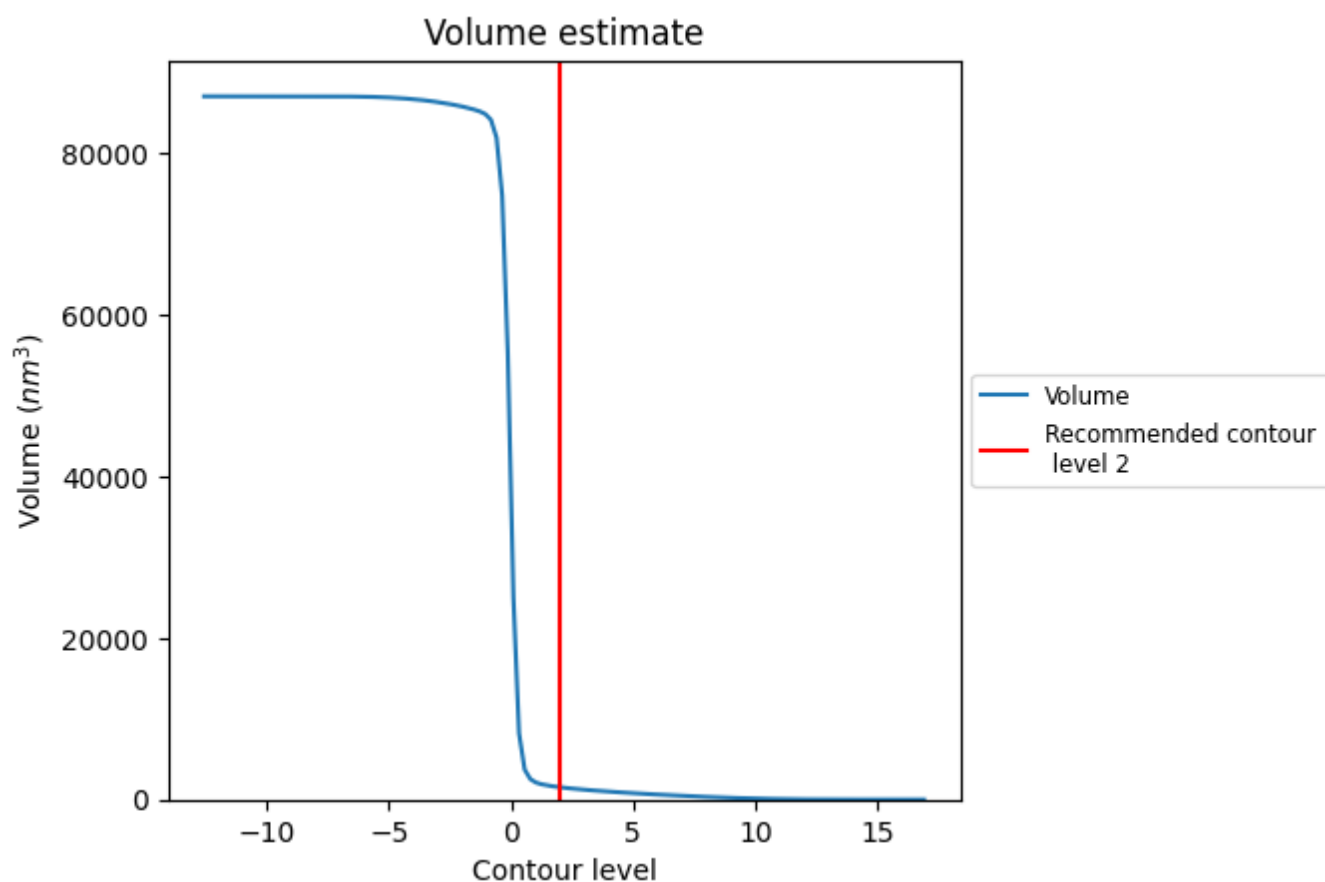
This section contains the results of statistical analysis of the map.

7.1 Map-value distribution [i](#)



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

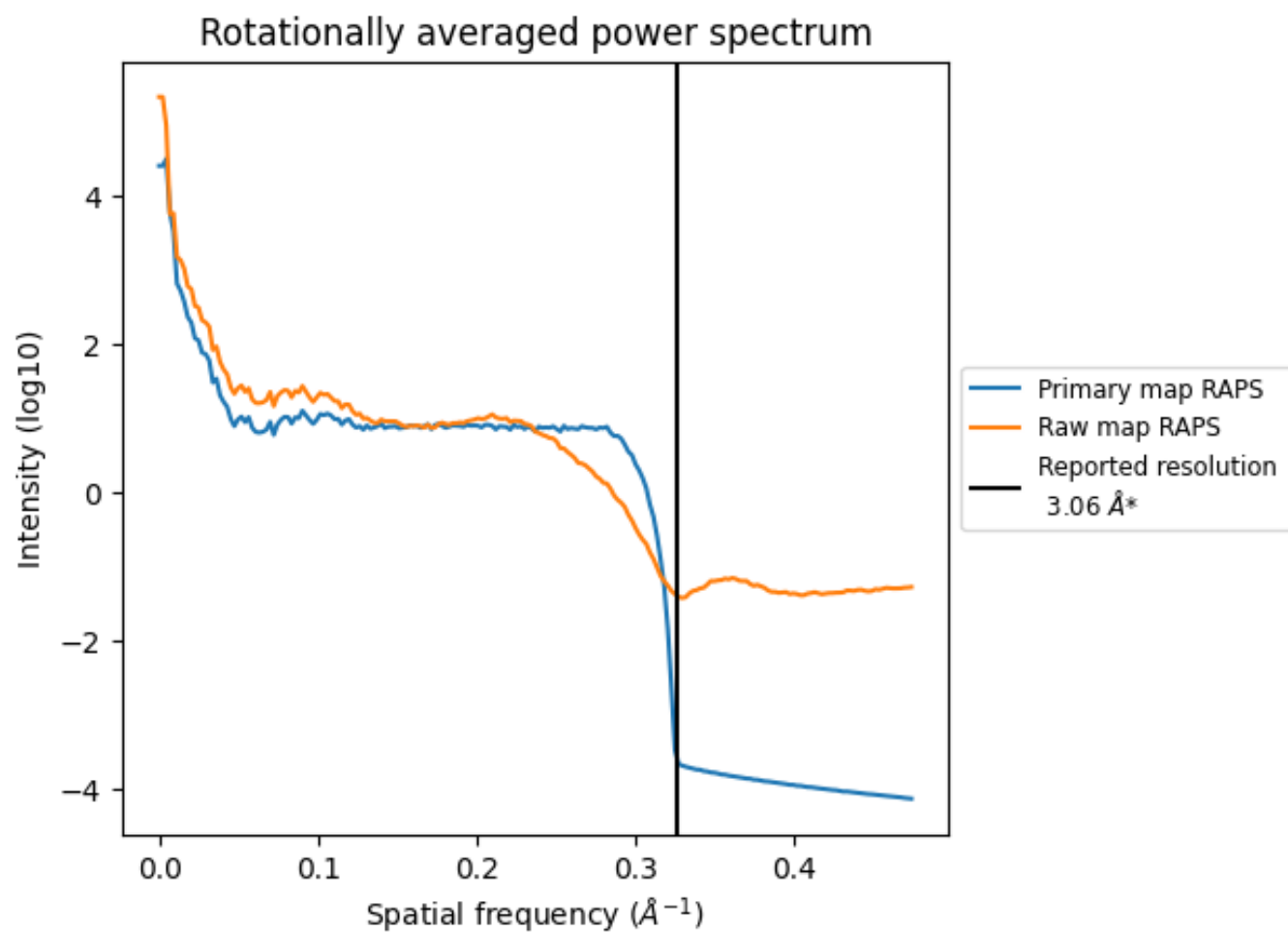
7.2 Volume estimate [i](#)



The volume at the recommended contour level is 1526 nm^3 ; this corresponds to an approximate mass of 1378 kDa.

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

7.3 Rotationally averaged power spectrum ⓘ

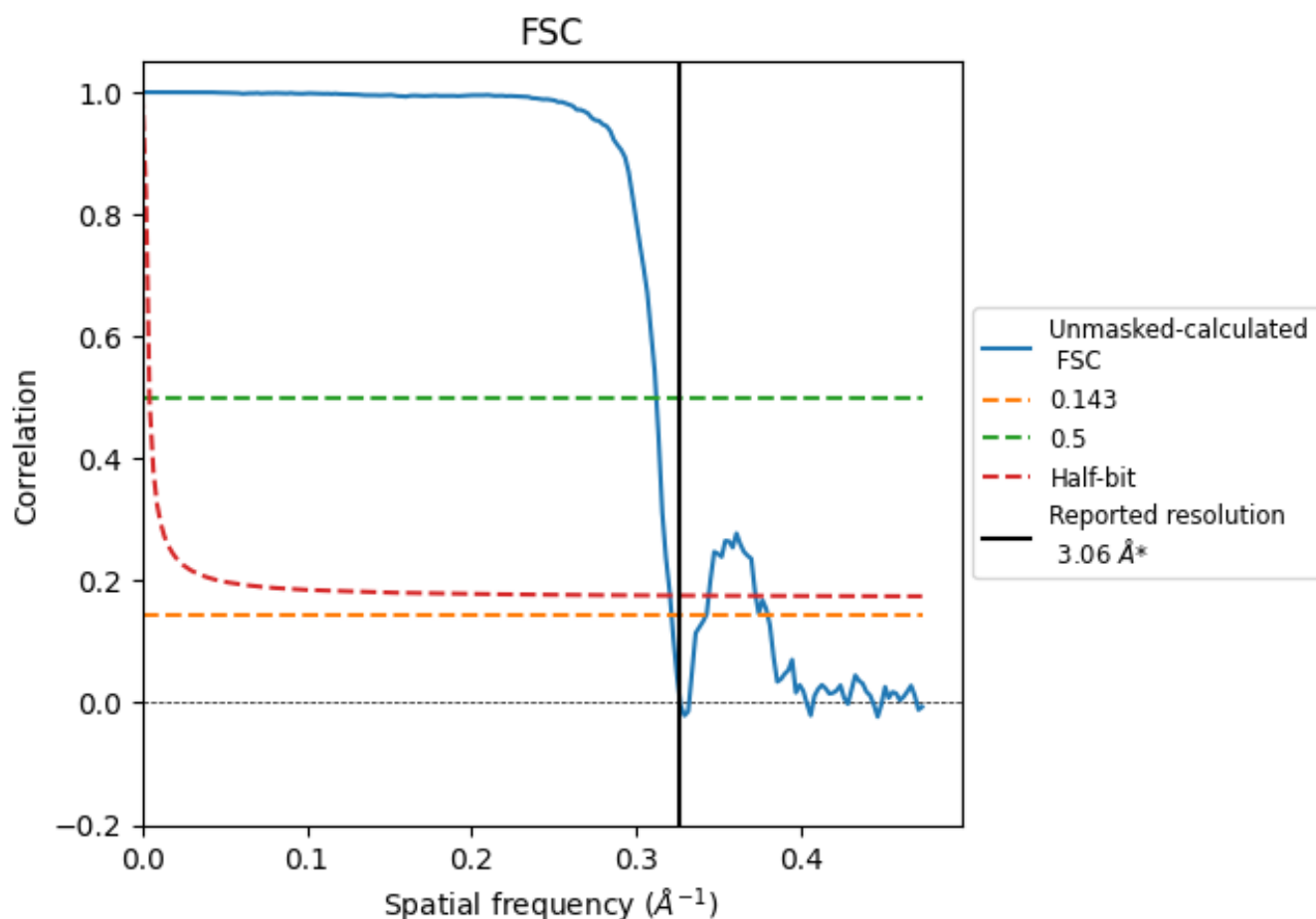


*Reported resolution corresponds to spatial frequency of 0.327 Å⁻¹

8 Fourier-Shell correlation [i](#)

Fourier-Shell Correlation (FSC) is the most commonly used method to estimate the resolution of single-particle and subtomogram-averaged maps. The shape of the curve depends on the imposed symmetry, mask and whether or not the two 3D reconstructions used were processed from a common reference. The reported resolution is shown as a black line. A curve is displayed for the half-bit criterion in addition to lines showing the 0.143 gold standard cut-off and 0.5 cut-off.

8.1 FSC [i](#)



*Reported resolution corresponds to spatial frequency of 0.327 $\text{\AA}^{-1}$

8.2 Resolution estimates [i](#)

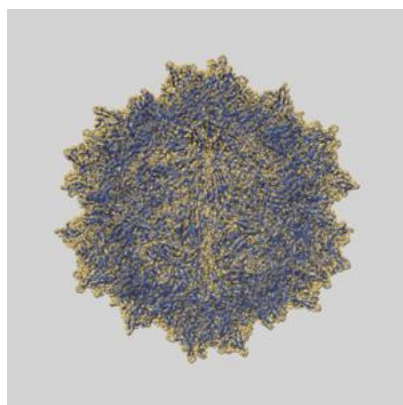
Resolution estimate (Å)	Estimation criterion (FSC cut-off)		
	0.143	0.5	Half-bit
Reported by author	3.06	-	-
Author-provided FSC curve	-	-	-
Unmasked-calculated*	3.11	3.20	3.12

*Resolution estimate based on FSC curve calculated by comparison of deposited half-maps.

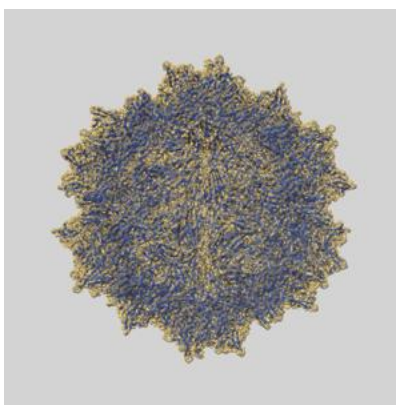
9 Map-model fit [i](#)

This section contains information regarding the fit between EMDB map EMD-41209 and PDB model 8TEY. Per-residue inclusion information can be found in section [3](#) on page [24](#).

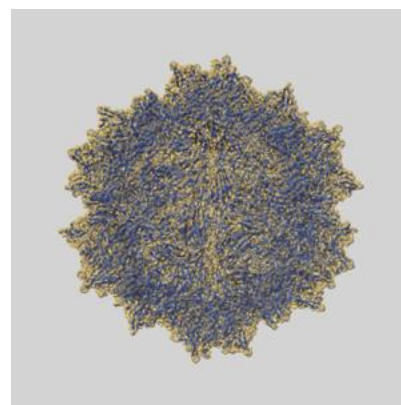
9.1 Map-model overlay [i](#)



X



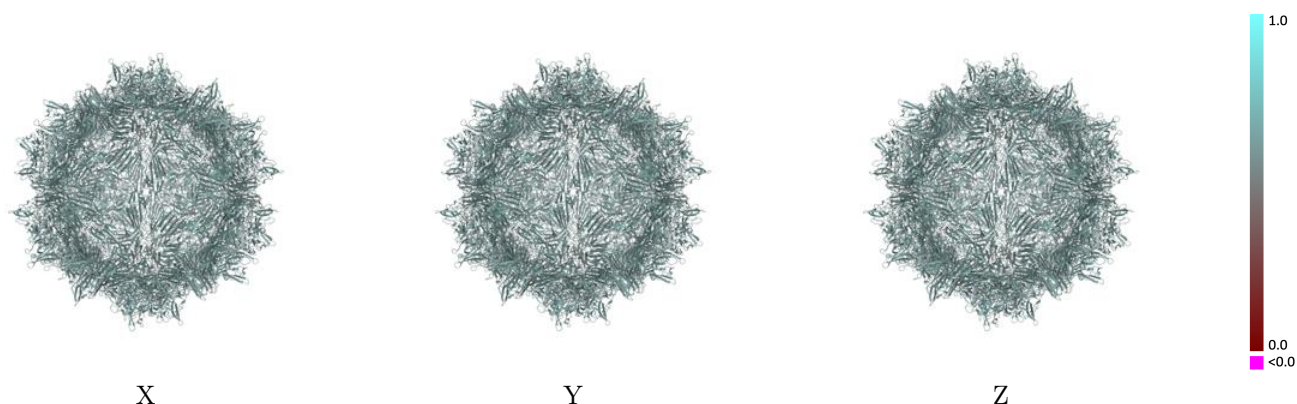
Y



Z

The images above show the 3D surface view of the map at the recommended contour level 2.0 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](#)

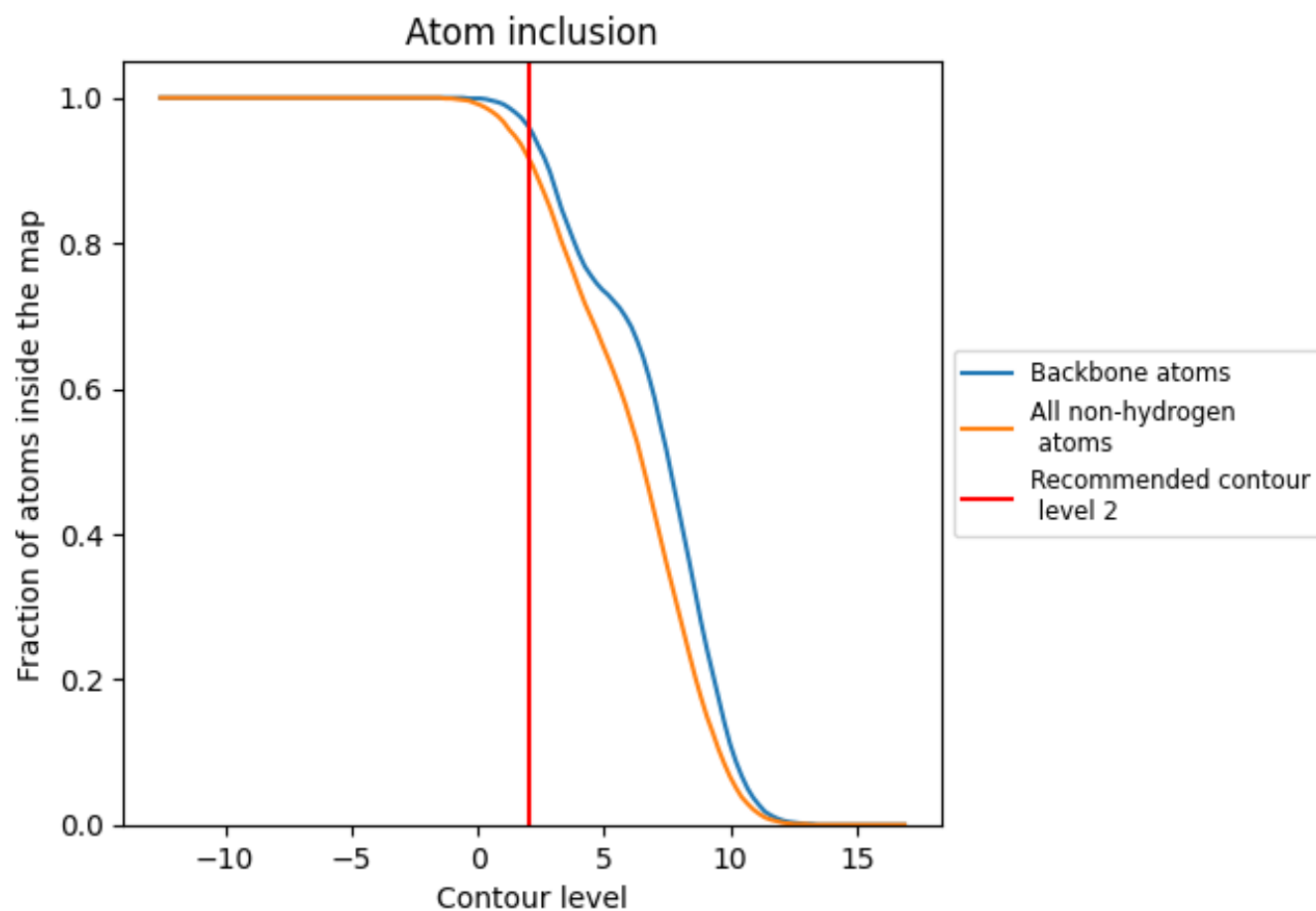


The images above show the model with each residue coloured according its Q-score. This shows their resolvability in the map with higher Q-score values reflecting better resolvability. Please note: Q-score is calculating the resolvability of atoms, and thus high values are only expected at resolutions 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, 96% of all backbone atoms, 92% 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 (2) and Q-score for the entire model and for each chain.

Chain	Atom inclusion	Q-score
All	 0.9180	 0.5910
1	 0.9200	 0.5910
2	 0.9210	 0.5910
3	 0.9170	 0.5910
4	 0.9200	 0.5920
5	 0.9180	 0.5920
6	 0.9180	 0.5910
7	 0.9180	 0.5910
8	 0.9170	 0.5910
A	 0.9180	 0.5910
B	 0.9210	 0.5910
C	 0.9190	 0.5920
D	 0.9180	 0.5920
E	 0.9160	 0.5910
F	 0.9170	 0.5910
G	 0.9170	 0.5910
H	 0.9180	 0.5910
I	 0.9190	 0.5920
J	 0.9210	 0.5910
K	 0.9200	 0.5920
L	 0.9210	 0.5910
M	 0.9170	 0.5910
N	 0.9180	 0.5910
O	 0.9170	 0.5910
P	 0.9180	 0.5920
Q	 0.9190	 0.5920
R	 0.9200	 0.5910
S	 0.9210	 0.5910
T	 0.9190	 0.5920
U	 0.9210	 0.5920
V	 0.9200	 0.5920
W	 0.9180	 0.5920
X	 0.9170	 0.5910
Y	 0.9180	 0.5910
Z	 0.9170	 0.5920



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Chain	Atom inclusion	Q-score
a	 0.9180	 0.5910
b	 0.9180	 0.5920
c	 0.9170	 0.5920
d	 0.9170	 0.5920
e	 0.9180	 0.5910
f	 0.9180	 0.5910
g	 0.9190	 0.5920
h	 0.9170	 0.5910
i	 0.9180	 0.5910
j	 0.9180	 0.5920
k	 0.9180	 0.5910
l	 0.9170	 0.5910
m	 0.9190	 0.5920
n	 0.9170	 0.5930
o	 0.9170	 0.5910
p	 0.9200	 0.5920
q	 0.9210	 0.5910
r	 0.9210	 0.5910
s	 0.9210	 0.5910
t	 0.9160	 0.5910
u	 0.9190	 0.5910
v	 0.9180	 0.5920
w	 0.9170	 0.5900
x	 0.9190	 0.5920
y	 0.9170	 0.5910
z	 0.9210	 0.5910