Full wwPDB EM Validation Report ⓘ

Mar 20, 2026 – 05:45 PM UTC

PDB ID	:	6V1Z / pdb_00006v1z
EMDB ID	:	EMD-21020
Title	:	genome-containing AAVrh.39 particles
Authors	:	Mietzsch, M.; Agbandje-McKenna, M.
Deposited on	:	2019-11-21
Resolution	:	3.58 Å(reported)

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

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

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

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

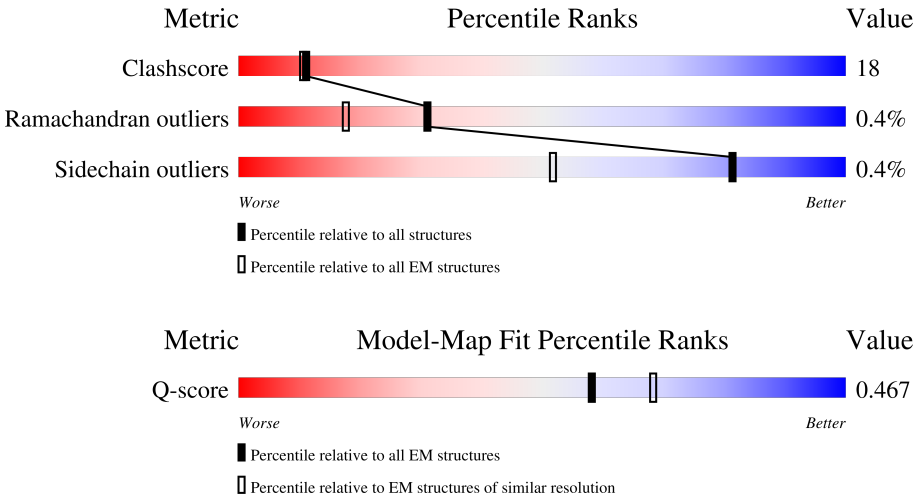
EMDB validation analysis	:	0.0.1.dev132
MolProbity	:	4-5-2 with Phenix2.0
Percentile statistics	:	20250101.v01 (using entries in the PDB archive January 1st 2025)
EM percentile statistics	:	202505.v01 (Using data in the EMDB archive up until May 2025)
MapQ	:	1.9.13
Ideal geometry (proteins)	:	Engh &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

1 Overall quality at a glance

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

The reported resolution of this entry is 3.58 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	12629 (3.08 - 4.08)

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

Mol	Chain	Length	Quality of chain
1	1	521	61% 38%
1	2	521	61% 38%
1	3	521	60% 39%
1	4	521	60% 39%

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Mol	Chain	Length	Quality of chain
1	5	521	61% 39%
1	6	521	61% 39%
1	7	521	61% 39%
1	8	521	60% 40%
1	A	521	61% 39%
1	B	521	61% 39%
1	C	521	61% 38%
1	D	521	61% 39%
1	E	521	61% 39%
1	F	521	60% 39%
1	G	521	60% 39%
1	H	521	60% 40%
1	I	521	60% 40%
1	J	521	61% 39%
1	K	521	61% 38%
1	L	521	61% 38%
1	M	521	61% 39%
1	N	521	61% 39%
1	O	521	60% 39%
1	P	521	60% 39%
1	Q	521	61% 38%
1	R	521	61% 39%
1	S	521	60% 40%
1	T	521	61% 38%
1	U	521	60% 39%

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Mol	Chain	Length	Quality of chain
1	V	521	60% 40%
1	W	521	60% 40%
1	X	521	60% 39%
1	Y	521	60% 40%
1	Z	521	61% 39%
1	a	521	60% 39%
1	b	521	60% 40%
1	c	521	60% 40%
1	d	521	61% 39%
1	e	521	61% 39%
1	f	521	61% 38%
1	g	521	60% 39%
1	h	521	61% 39%
1	i	521	60% 39%
1	j	521	61% 38%
1	k	521	61% 39%
1	l	521	60% 39%
1	m	521	60% 39%
1	n	521	61% 39%
1	o	521	61% 38%
1	p	521	61% 39%
1	q	521	60% 40%
1	r	521	61% 39%
1	s	521	60% 39%
1	t	521	61% 39%

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Mol	Chain	Length	Quality of chain
1	u	521	61% 39%
1	v	521	60% 40%
1	w	521	61% 39%
1	x	521	61% 39%
1	y	521	60% 39%
1	z	521	61% 39%
2	0	2	100%
2	0A	2	100%
2	1A	2	100%
2	2A	2	100%
2	3A	2	100%
2	4A	2	100%
2	5A	2	100%
2	9	2	100%
2	AA	2	100%
2	BA	2	100%
2	CA	2	100%
2	DA	2	100%
2	EA	2	100%
2	FA	2	100%
2	GA	2	100%
2	HA	2	100%
2	IA	2	100%
2	JA	2	100%
2	KA	2	100%

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Mol	Chain	Length	Quality of chain
2	LA	2	100%
2	MA	2	100%
2	NA	2	100%
2	OA	2	100%
2	PA	2	100%
2	QA	2	100%
2	RA	2	100%
2	SA	2	100%
2	TA	2	100%
2	UA	2	100%
2	VA	2	100%
2	WA	2	100%
2	XA	2	100%
2	YA	2	100%
2	ZA	2	100%
2	aA	2	100%
2	bA	2	100%
2	cA	2	100%
2	dA	2	100%
2	eA	2	100%
2	fA	2	100%
2	gA	2	100%
2	hA	2	100%
2	iA	2	100%
2	jA	2	100%

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Mol	Chain	Length	Quality of chain
2	kA	2	100%
2	lA	2	100%
2	mA	2	100%
2	nA	2	100%
2	oA	2	100%
2	pA	2	100%
2	qA	2	100%
2	rA	2	100%
2	sA	2	100%
2	tA	2	100%
2	uA	2	100%
2	vA	2	100%
2	wA	2	100%
2	xA	2	100%
2	yA	2	100%
2	zA	2	100%

2 Entry composition (i)

There are 2 unique types of molecules in this entry. The entry contains 250920 atoms, of which 0 are hydrogens and 0 are deuteriums.

In the tables below, the AltConf column contains the number of residues with at least one atom in alternate conformation and the Trace column contains the number of residues modelled with at most 2 atoms.

- Molecule 1 is a protein called Capsid protein VP1.

Mol	Chain	Residues	Atoms					AltConf	Trace
1	A	521	Total	C	N	O	S	1	0
			4145	2617	717	797	14		
1	B	521	Total	C	N	O	S	1	0
			4145	2617	717	797	14		
1	C	521	Total	C	N	O	S	1	0
			4145	2617	717	797	14		
1	D	521	Total	C	N	O	S	1	0
			4145	2617	717	797	14		
1	E	521	Total	C	N	O	S	1	0
			4145	2617	717	797	14		
1	F	521	Total	C	N	O	S	1	0
			4145	2617	717	797	14		
1	G	521	Total	C	N	O	S	1	0
			4145	2617	717	797	14		
1	H	521	Total	C	N	O	S	1	0
			4145	2617	717	797	14		
1	I	521	Total	C	N	O	S	1	0
			4145	2617	717	797	14		
1	J	521	Total	C	N	O	S	1	0
			4145	2617	717	797	14		
1	K	521	Total	C	N	O	S	1	0
			4145	2617	717	797	14		
1	L	521	Total	C	N	O	S	1	0
			4145	2617	717	797	14		
1	M	521	Total	C	N	O	S	1	0
			4145	2617	717	797	14		
1	N	521	Total	C	N	O	S	1	0
			4145	2617	717	797	14		
1	O	521	Total	C	N	O	S	1	0
			4145	2617	717	797	14		
1	P	521	Total	C	N	O	S	1	0
			4145	2617	717	797	14		
1	Q	521	Total	C	N	O	S	1	0
			4145	2617	717	797	14		

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Mol	Chain	Residues	Atoms					AltConf	Trace
1	R	521	Total	C	N	O	S	1	0
			4145	2617	717	797	14		
1	S	521	Total	C	N	O	S	1	0
			4145	2617	717	797	14		
1	T	521	Total	C	N	O	S	1	0
			4145	2617	717	797	14		
1	U	521	Total	C	N	O	S	1	0
			4145	2617	717	797	14		
1	V	521	Total	C	N	O	S	1	0
			4145	2617	717	797	14		
1	W	521	Total	C	N	O	S	1	0
			4145	2617	717	797	14		
1	X	521	Total	C	N	O	S	1	0
			4145	2617	717	797	14		
1	Y	521	Total	C	N	O	S	1	0
			4145	2617	717	797	14		
1	Z	521	Total	C	N	O	S	1	0
			4145	2617	717	797	14		
1	a	521	Total	C	N	O	S	1	0
			4145	2617	717	797	14		
1	b	521	Total	C	N	O	S	1	0
			4145	2617	717	797	14		
1	c	521	Total	C	N	O	S	1	0
			4145	2617	717	797	14		
1	d	521	Total	C	N	O	S	1	0
			4145	2617	717	797	14		
1	e	521	Total	C	N	O	S	1	0
			4145	2617	717	797	14		
1	f	521	Total	C	N	O	S	1	0
			4145	2617	717	797	14		
1	g	521	Total	C	N	O	S	1	0
			4145	2617	717	797	14		
1	h	521	Total	C	N	O	S	1	0
			4145	2617	717	797	14		
1	i	521	Total	C	N	O	S	1	0
			4145	2617	717	797	14		
1	j	521	Total	C	N	O	S	1	0
			4145	2617	717	797	14		
1	k	521	Total	C	N	O	S	1	0
			4145	2617	717	797	14		
1	l	521	Total	C	N	O	S	1	0
			4145	2617	717	797	14		

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Mol	Chain	Residues	Atoms					AltConf	Trace
1	m	521	Total	C	N	O	S	1	0
			4145	2617	717	797	14		
1	n	521	Total	C	N	O	S	1	0
			4145	2617	717	797	14		
1	o	521	Total	C	N	O	S	1	0
			4145	2617	717	797	14		
1	p	521	Total	C	N	O	S	1	0
			4145	2617	717	797	14		
1	q	521	Total	C	N	O	S	1	0
			4145	2617	717	797	14		
1	r	521	Total	C	N	O	S	1	0
			4145	2617	717	797	14		
1	s	521	Total	C	N	O	S	1	0
			4145	2617	717	797	14		
1	t	521	Total	C	N	O	S	1	0
			4145	2617	717	797	14		
1	u	521	Total	C	N	O	S	1	0
			4145	2617	717	797	14		
1	v	521	Total	C	N	O	S	1	0
			4145	2617	717	797	14		
1	w	521	Total	C	N	O	S	1	0
			4145	2617	717	797	14		
1	x	521	Total	C	N	O	S	1	0
			4145	2617	717	797	14		
1	y	521	Total	C	N	O	S	1	0
			4145	2617	717	797	14		
1	z	521	Total	C	N	O	S	1	0
			4145	2617	717	797	14		
1	1	521	Total	C	N	O	S	1	0
			4145	2617	717	797	14		
1	2	521	Total	C	N	O	S	1	0
			4145	2617	717	797	14		
1	3	521	Total	C	N	O	S	1	0
			4145	2617	717	797	14		
1	4	521	Total	C	N	O	S	1	0
			4145	2617	717	797	14		
1	5	521	Total	C	N	O	S	1	0
			4145	2617	717	797	14		
1	6	521	Total	C	N	O	S	1	0
			4145	2617	717	797	14		
1	7	521	Total	C	N	O	S	1	0
			4145	2617	717	797	14		

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Mol	Chain	Residues	Atoms					AltConf	Trace
1	8	521	Total	C	N	O	S	1	0
			4145	2617	717	797	14		

There are 120 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
A	315	ASN	SER	conflict	UNP B4Y886
A	417	GLN	THR	conflict	UNP B4Y886
B	315	ASN	SER	conflict	UNP B4Y886
B	417	GLN	THR	conflict	UNP B4Y886
C	315	ASN	SER	conflict	UNP B4Y886
C	417	GLN	THR	conflict	UNP B4Y886
D	315	ASN	SER	conflict	UNP B4Y886
D	417	GLN	THR	conflict	UNP B4Y886
E	315	ASN	SER	conflict	UNP B4Y886
E	417	GLN	THR	conflict	UNP B4Y886
F	315	ASN	SER	conflict	UNP B4Y886
F	417	GLN	THR	conflict	UNP B4Y886
G	315	ASN	SER	conflict	UNP B4Y886
G	417	GLN	THR	conflict	UNP B4Y886
H	315	ASN	SER	conflict	UNP B4Y886
H	417	GLN	THR	conflict	UNP B4Y886
I	315	ASN	SER	conflict	UNP B4Y886
I	417	GLN	THR	conflict	UNP B4Y886
J	315	ASN	SER	conflict	UNP B4Y886
J	417	GLN	THR	conflict	UNP B4Y886
K	315	ASN	SER	conflict	UNP B4Y886
K	417	GLN	THR	conflict	UNP B4Y886
L	315	ASN	SER	conflict	UNP B4Y886
L	417	GLN	THR	conflict	UNP B4Y886
M	315	ASN	SER	conflict	UNP B4Y886
M	417	GLN	THR	conflict	UNP B4Y886
N	315	ASN	SER	conflict	UNP B4Y886
N	417	GLN	THR	conflict	UNP B4Y886
O	315	ASN	SER	conflict	UNP B4Y886
O	417	GLN	THR	conflict	UNP B4Y886
P	315	ASN	SER	conflict	UNP B4Y886
P	417	GLN	THR	conflict	UNP B4Y886
Q	315	ASN	SER	conflict	UNP B4Y886
Q	417	GLN	THR	conflict	UNP B4Y886
R	315	ASN	SER	conflict	UNP B4Y886
R	417	GLN	THR	conflict	UNP B4Y886

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Chain	Residue	Modelled	Actual	Comment	Reference
S	315	ASN	SER	conflict	UNP B4Y886
S	417	GLN	THR	conflict	UNP B4Y886
T	315	ASN	SER	conflict	UNP B4Y886
T	417	GLN	THR	conflict	UNP B4Y886
U	315	ASN	SER	conflict	UNP B4Y886
U	417	GLN	THR	conflict	UNP B4Y886
V	315	ASN	SER	conflict	UNP B4Y886
V	417	GLN	THR	conflict	UNP B4Y886
W	315	ASN	SER	conflict	UNP B4Y886
W	417	GLN	THR	conflict	UNP B4Y886
X	315	ASN	SER	conflict	UNP B4Y886
X	417	GLN	THR	conflict	UNP B4Y886
Y	315	ASN	SER	conflict	UNP B4Y886
Y	417	GLN	THR	conflict	UNP B4Y886
Z	315	ASN	SER	conflict	UNP B4Y886
Z	417	GLN	THR	conflict	UNP B4Y886
a	315	ASN	SER	conflict	UNP B4Y886
a	417	GLN	THR	conflict	UNP B4Y886
b	315	ASN	SER	conflict	UNP B4Y886
b	417	GLN	THR	conflict	UNP B4Y886
c	315	ASN	SER	conflict	UNP B4Y886
c	417	GLN	THR	conflict	UNP B4Y886
d	315	ASN	SER	conflict	UNP B4Y886
d	417	GLN	THR	conflict	UNP B4Y886
e	315	ASN	SER	conflict	UNP B4Y886
e	417	GLN	THR	conflict	UNP B4Y886
f	315	ASN	SER	conflict	UNP B4Y886
f	417	GLN	THR	conflict	UNP B4Y886
g	315	ASN	SER	conflict	UNP B4Y886
g	417	GLN	THR	conflict	UNP B4Y886
h	315	ASN	SER	conflict	UNP B4Y886
h	417	GLN	THR	conflict	UNP B4Y886
i	315	ASN	SER	conflict	UNP B4Y886
i	417	GLN	THR	conflict	UNP B4Y886
j	315	ASN	SER	conflict	UNP B4Y886
j	417	GLN	THR	conflict	UNP B4Y886
k	315	ASN	SER	conflict	UNP B4Y886
k	417	GLN	THR	conflict	UNP B4Y886
l	315	ASN	SER	conflict	UNP B4Y886
l	417	GLN	THR	conflict	UNP B4Y886
m	315	ASN	SER	conflict	UNP B4Y886
m	417	GLN	THR	conflict	UNP B4Y886

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Chain	Residue	Modelled	Actual	Comment	Reference
n	315	ASN	SER	conflict	UNP B4Y886
n	417	GLN	THR	conflict	UNP B4Y886
o	315	ASN	SER	conflict	UNP B4Y886
o	417	GLN	THR	conflict	UNP B4Y886
p	315	ASN	SER	conflict	UNP B4Y886
p	417	GLN	THR	conflict	UNP B4Y886
q	315	ASN	SER	conflict	UNP B4Y886
q	417	GLN	THR	conflict	UNP B4Y886
r	315	ASN	SER	conflict	UNP B4Y886
r	417	GLN	THR	conflict	UNP B4Y886
s	315	ASN	SER	conflict	UNP B4Y886
s	417	GLN	THR	conflict	UNP B4Y886
t	315	ASN	SER	conflict	UNP B4Y886
t	417	GLN	THR	conflict	UNP B4Y886
u	315	ASN	SER	conflict	UNP B4Y886
u	417	GLN	THR	conflict	UNP B4Y886
v	315	ASN	SER	conflict	UNP B4Y886
v	417	GLN	THR	conflict	UNP B4Y886
w	315	ASN	SER	conflict	UNP B4Y886
w	417	GLN	THR	conflict	UNP B4Y886
x	315	ASN	SER	conflict	UNP B4Y886
x	417	GLN	THR	conflict	UNP B4Y886
y	315	ASN	SER	conflict	UNP B4Y886
y	417	GLN	THR	conflict	UNP B4Y886
z	315	ASN	SER	conflict	UNP B4Y886
z	417	GLN	THR	conflict	UNP B4Y886
1	315	ASN	SER	conflict	UNP B4Y886
1	417	GLN	THR	conflict	UNP B4Y886
2	315	ASN	SER	conflict	UNP B4Y886
2	417	GLN	THR	conflict	UNP B4Y886
3	315	ASN	SER	conflict	UNP B4Y886
3	417	GLN	THR	conflict	UNP B4Y886
4	315	ASN	SER	conflict	UNP B4Y886
4	417	GLN	THR	conflict	UNP B4Y886
5	315	ASN	SER	conflict	UNP B4Y886
5	417	GLN	THR	conflict	UNP B4Y886
6	315	ASN	SER	conflict	UNP B4Y886
6	417	GLN	THR	conflict	UNP B4Y886
7	315	ASN	SER	conflict	UNP B4Y886
7	417	GLN	THR	conflict	UNP B4Y886
8	315	ASN	SER	conflict	UNP B4Y886
8	417	GLN	THR	conflict	UNP B4Y886

- Molecule 2 is a DNA chain called DNA (5'-D(*CP*A)-3').

Mol	Chain	Residues	Atoms					AltConf	Trace
2	0	2	Total	C	N	O	P	0	0
			37	19	8	9	1		
2	9	2	Total	C	N	O	P	0	0
			37	19	8	9	1		
2	AA	2	Total	C	N	O	P	0	0
			37	19	8	9	1		
2	BA	2	Total	C	N	O	P	0	0
			37	19	8	9	1		
2	CA	2	Total	C	N	O	P	0	0
			37	19	8	9	1		
2	DA	2	Total	C	N	O	P	0	0
			37	19	8	9	1		
2	EA	2	Total	C	N	O	P	0	0
			37	19	8	9	1		
2	FA	2	Total	C	N	O	P	0	0
			37	19	8	9	1		
2	GA	2	Total	C	N	O	P	0	0
			37	19	8	9	1		
2	HA	2	Total	C	N	O	P	0	0
			37	19	8	9	1		
2	IA	2	Total	C	N	O	P	0	0
			37	19	8	9	1		
2	JA	2	Total	C	N	O	P	0	0
			37	19	8	9	1		
2	KA	2	Total	C	N	O	P	0	0
			37	19	8	9	1		
2	LA	2	Total	C	N	O	P	0	0
			37	19	8	9	1		
2	MA	2	Total	C	N	O	P	0	0
			37	19	8	9	1		
2	NA	2	Total	C	N	O	P	0	0
			37	19	8	9	1		
2	OA	2	Total	C	N	O	P	0	0
			37	19	8	9	1		
2	PA	2	Total	C	N	O	P	0	0
			37	19	8	9	1		
2	QA	2	Total	C	N	O	P	0	0
			37	19	8	9	1		
2	RA	2	Total	C	N	O	P	0	0
			37	19	8	9	1		
2	SA	2	Total	C	N	O	P	0	0
			37	19	8	9	1		

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Mol	Chain	Residues	Atoms					AltConf	Trace
2	TA	2	Total	C	N	O	P	0	0
			37	19	8	9	1		
2	UA	2	Total	C	N	O	P	0	0
			37	19	8	9	1		
2	VA	2	Total	C	N	O	P	0	0
			37	19	8	9	1		
2	WA	2	Total	C	N	O	P	0	0
			37	19	8	9	1		
2	XA	2	Total	C	N	O	P	0	0
			37	19	8	9	1		
2	YA	2	Total	C	N	O	P	0	0
			37	19	8	9	1		
2	ZA	2	Total	C	N	O	P	0	0
			37	19	8	9	1		
2	aA	2	Total	C	N	O	P	0	0
			37	19	8	9	1		
2	bA	2	Total	C	N	O	P	0	0
			37	19	8	9	1		
2	cA	2	Total	C	N	O	P	0	0
			37	19	8	9	1		
2	dA	2	Total	C	N	O	P	0	0
			37	19	8	9	1		
2	eA	2	Total	C	N	O	P	0	0
			37	19	8	9	1		
2	fA	2	Total	C	N	O	P	0	0
			37	19	8	9	1		
2	gA	2	Total	C	N	O	P	0	0
			37	19	8	9	1		
2	hA	2	Total	C	N	O	P	0	0
			37	19	8	9	1		
2	iA	2	Total	C	N	O	P	0	0
			37	19	8	9	1		
2	jA	2	Total	C	N	O	P	0	0
			37	19	8	9	1		
2	kA	2	Total	C	N	O	P	0	0
			37	19	8	9	1		
2	lA	2	Total	C	N	O	P	0	0
			37	19	8	9	1		
2	mA	2	Total	C	N	O	P	0	0
			37	19	8	9	1		
2	nA	2	Total	C	N	O	P	0	0
			37	19	8	9	1		

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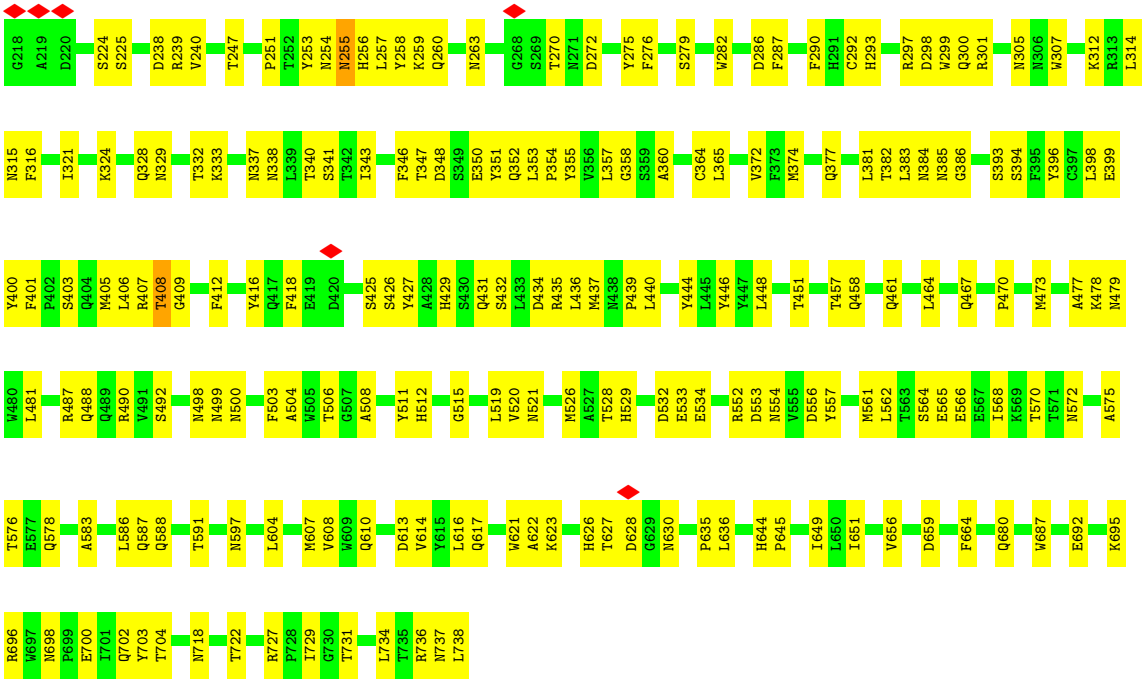
Mol	Chain	Residues	Atoms					AltConf	Trace
2	oA	2	Total	C	N	O	P	0	0
			37	19	8	9	1		
2	pA	2	Total	C	N	O	P	0	0
			37	19	8	9	1		
2	qA	2	Total	C	N	O	P	0	0
			37	19	8	9	1		
2	rA	2	Total	C	N	O	P	0	0
			37	19	8	9	1		
2	sA	2	Total	C	N	O	P	0	0
			37	19	8	9	1		
2	tA	2	Total	C	N	O	P	0	0
			37	19	8	9	1		
2	uA	2	Total	C	N	O	P	0	0
			37	19	8	9	1		
2	vA	2	Total	C	N	O	P	0	0
			37	19	8	9	1		
2	wA	2	Total	C	N	O	P	0	0
			37	19	8	9	1		
2	xA	2	Total	C	N	O	P	0	0
			37	19	8	9	1		
2	yA	2	Total	C	N	O	P	0	0
			37	19	8	9	1		
2	zA	2	Total	C	N	O	P	0	0
			37	19	8	9	1		
2	0A	2	Total	C	N	O	P	0	0
			37	19	8	9	1		
2	1A	2	Total	C	N	O	P	0	0
			37	19	8	9	1		
2	2A	2	Total	C	N	O	P	0	0
			37	19	8	9	1		
2	3A	2	Total	C	N	O	P	0	0
			37	19	8	9	1		
2	4A	2	Total	C	N	O	P	0	0
			37	19	8	9	1		
2	5A	2	Total	C	N	O	P	0	0
			37	19	8	9	1		

3 Residue-property plots (i)

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

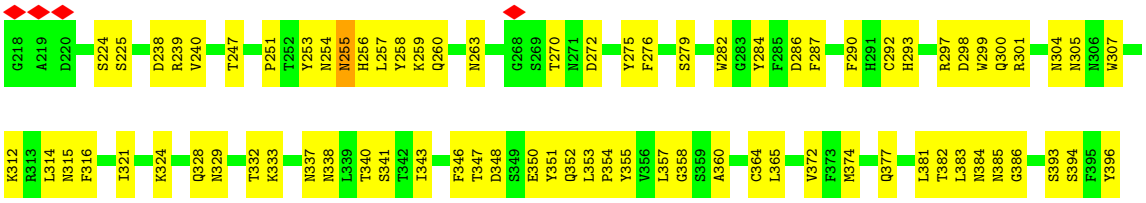
• Molecule 1: Capsid protein VP1

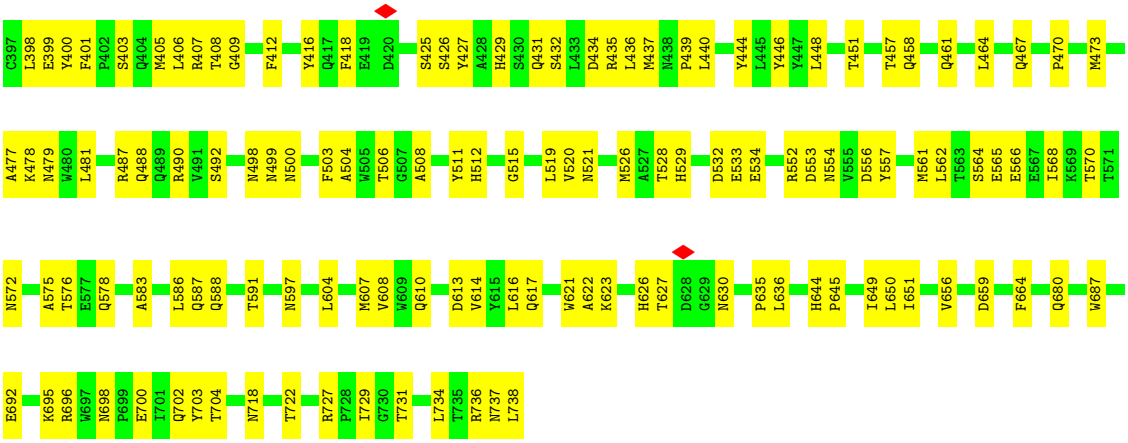
Chain A:



• Molecule 1: Capsid protein VP1

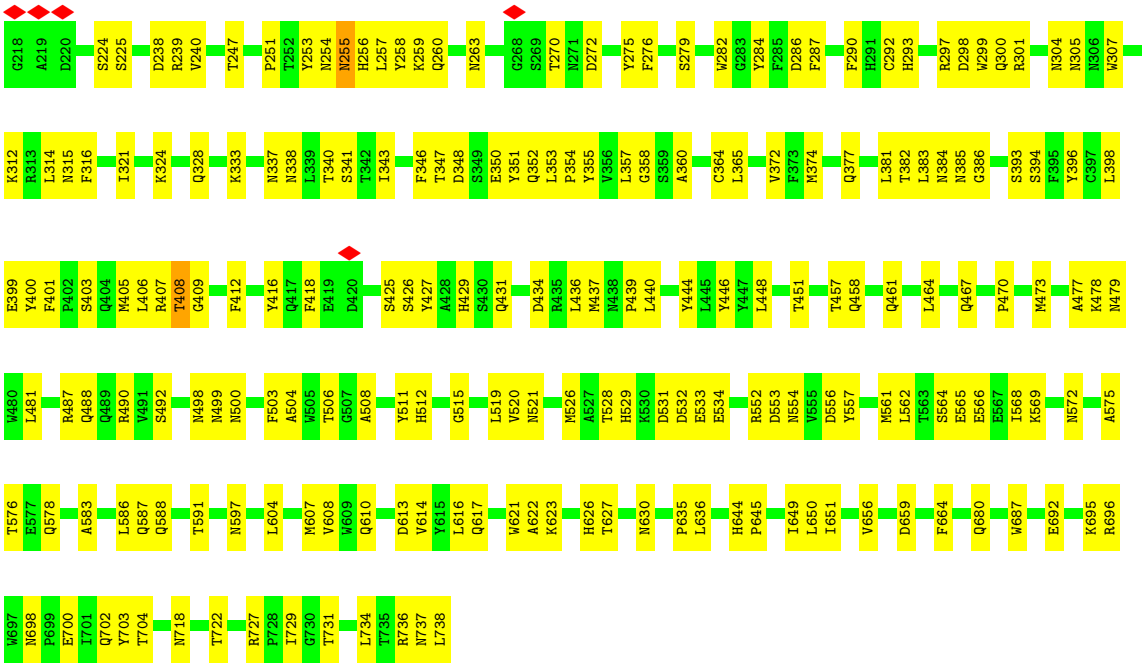
Chain B:





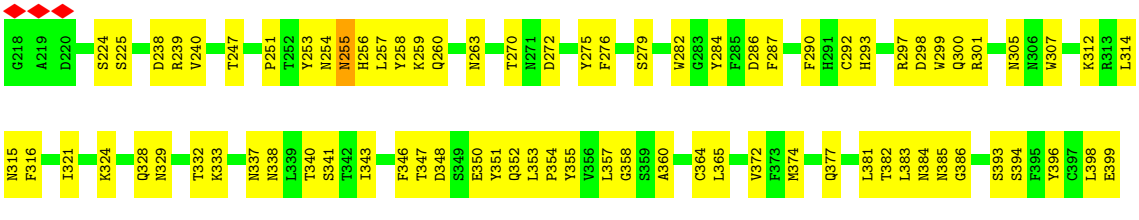
• Molecule 1: Capsid protein VP1

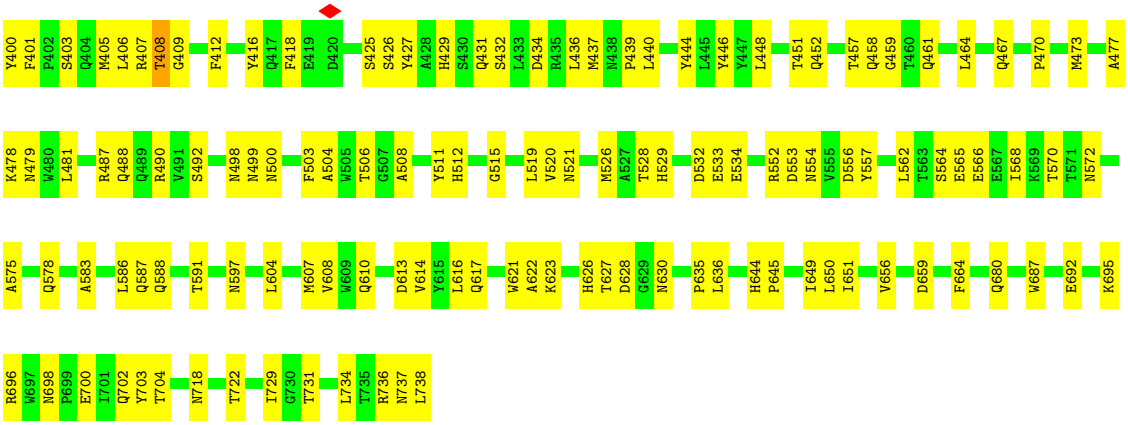
Chain C:



• Molecule 1: Capsid protein VP1

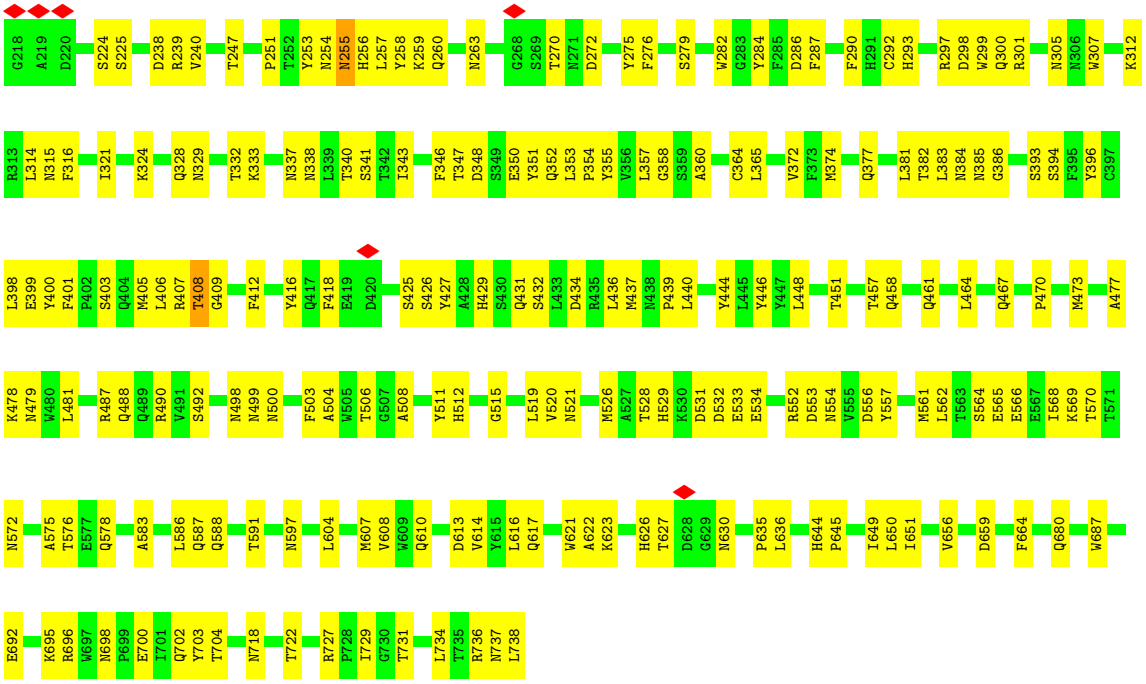
Chain D:





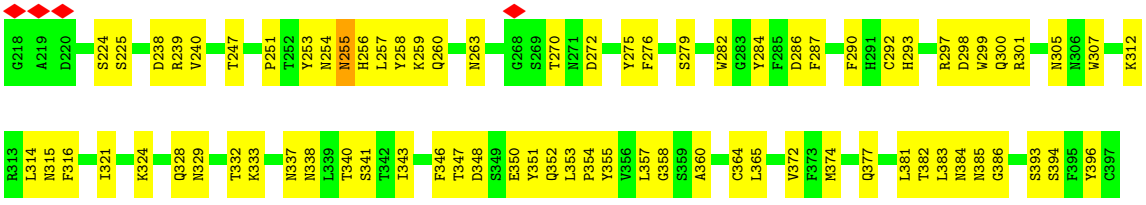
• Molecule 1: Capsid protein VP1

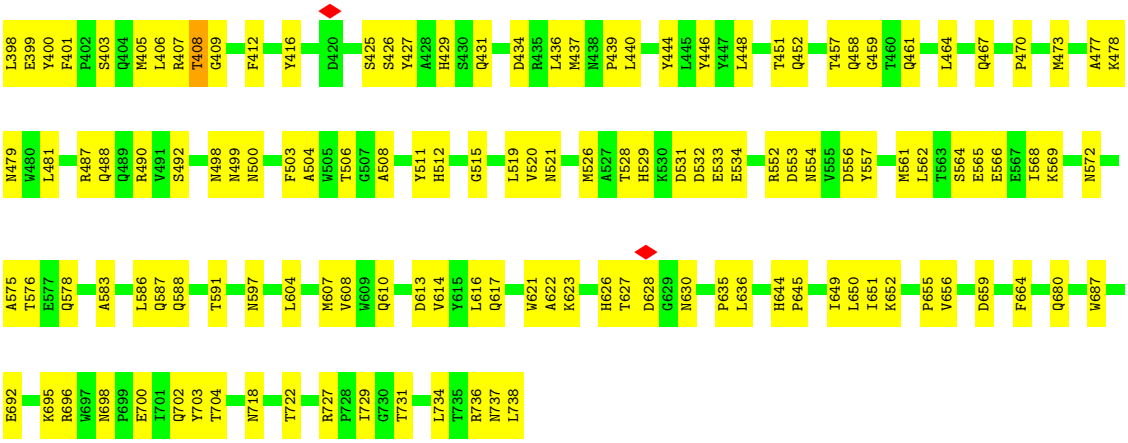
Chain E:



• Molecule 1: Capsid protein VP1

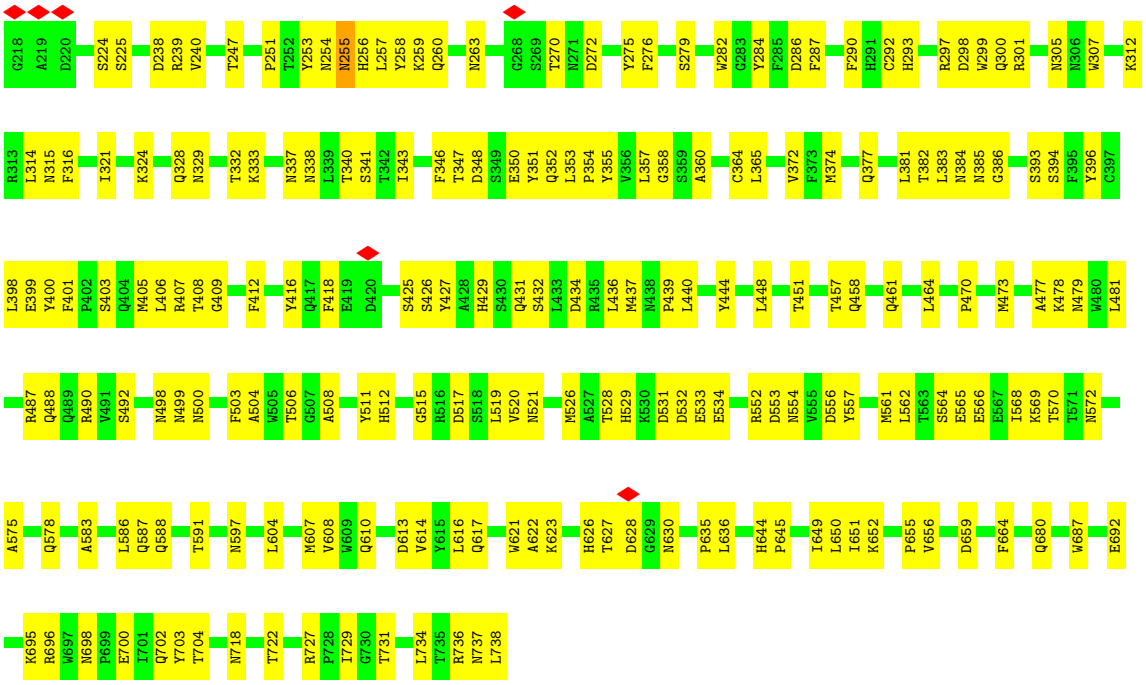
Chain F:





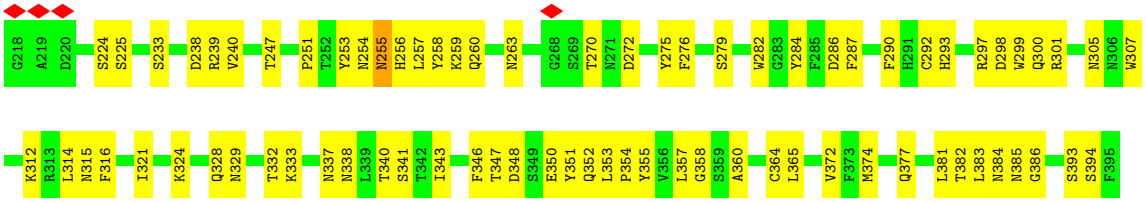
• Molecule 1: Capsid protein VP1

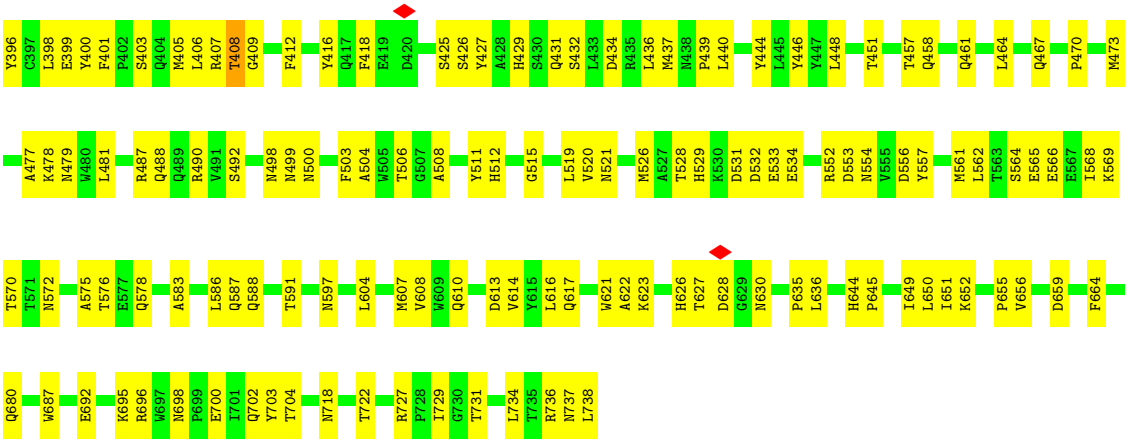
Chain G:



• Molecule 1: Capsid protein VP1

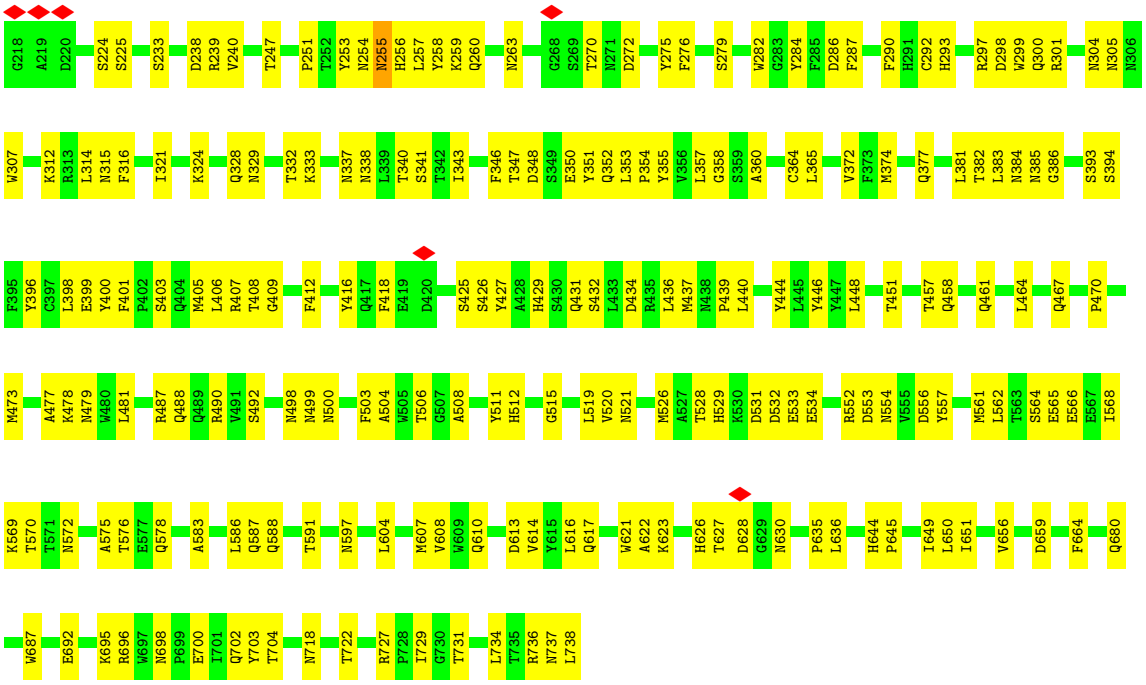
Chain H:





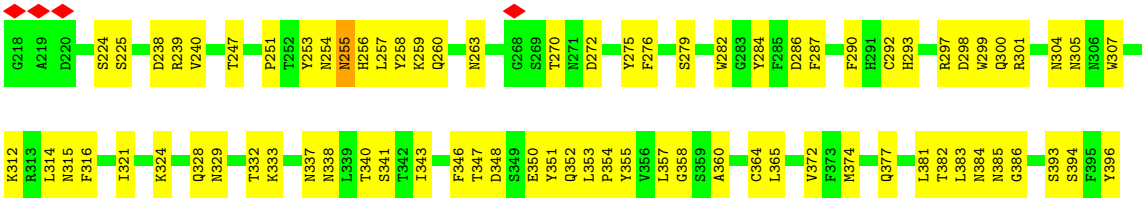
• Molecule 1: Capsid protein VP1

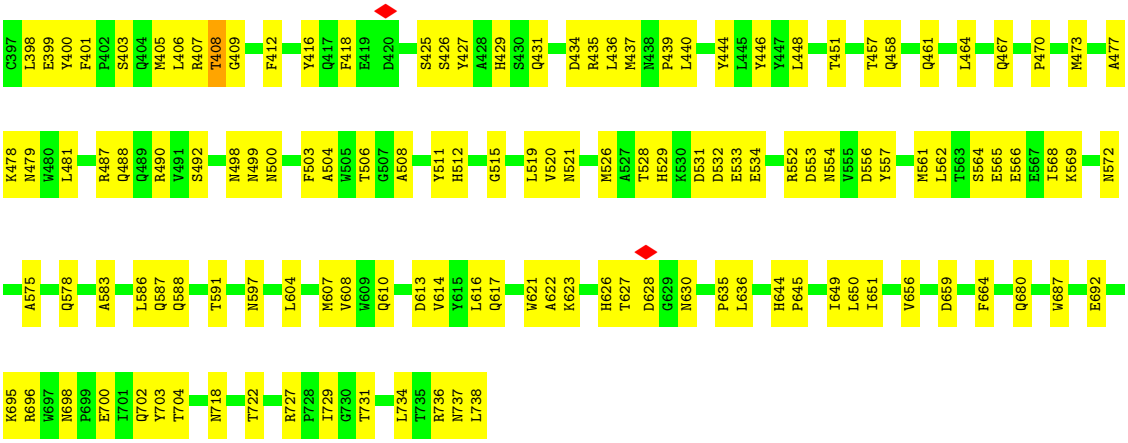
Chain I:



• Molecule 1: Capsid protein VP1

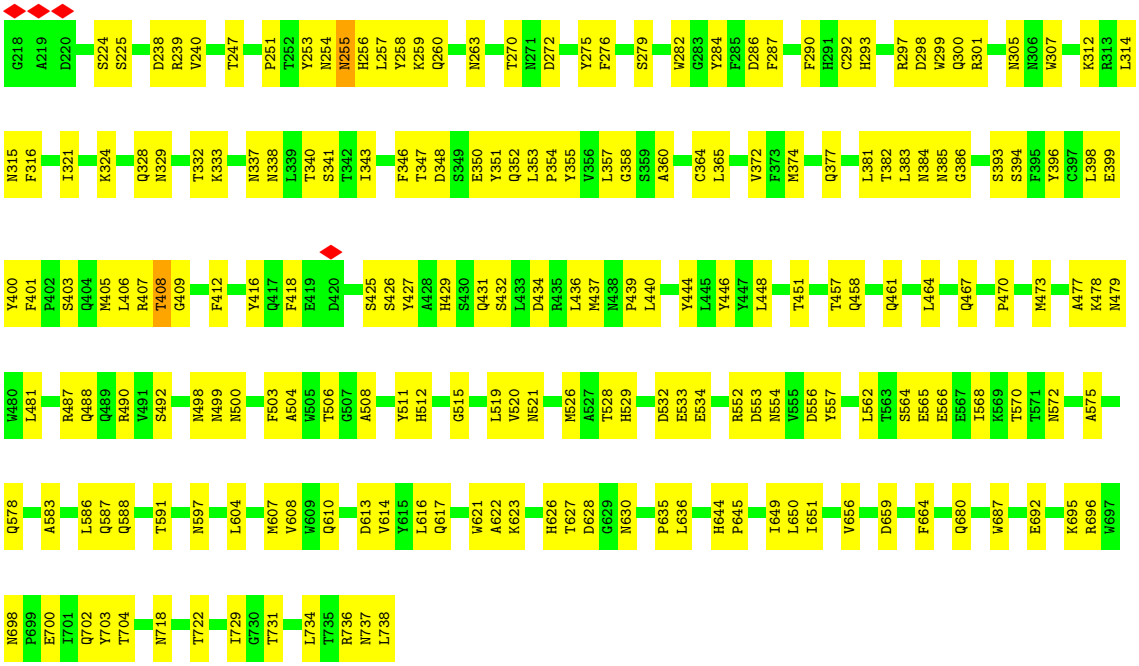
Chain J:





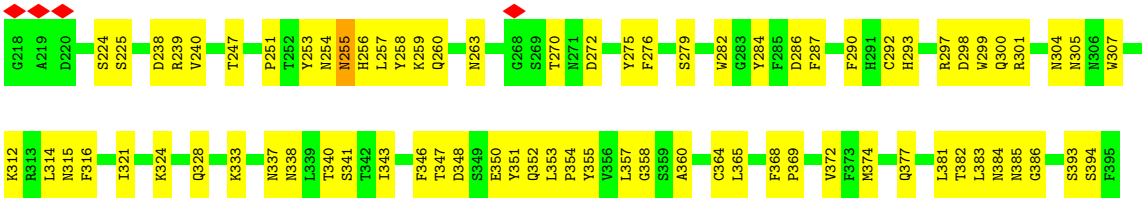
• Molecule 1: Capsid protein VP1

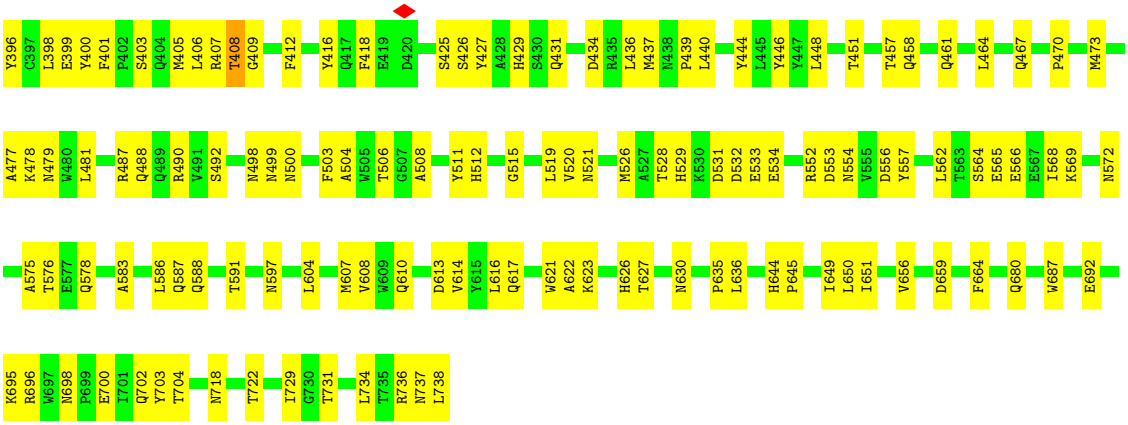
Chain K:



• Molecule 1: Capsid protein VP1

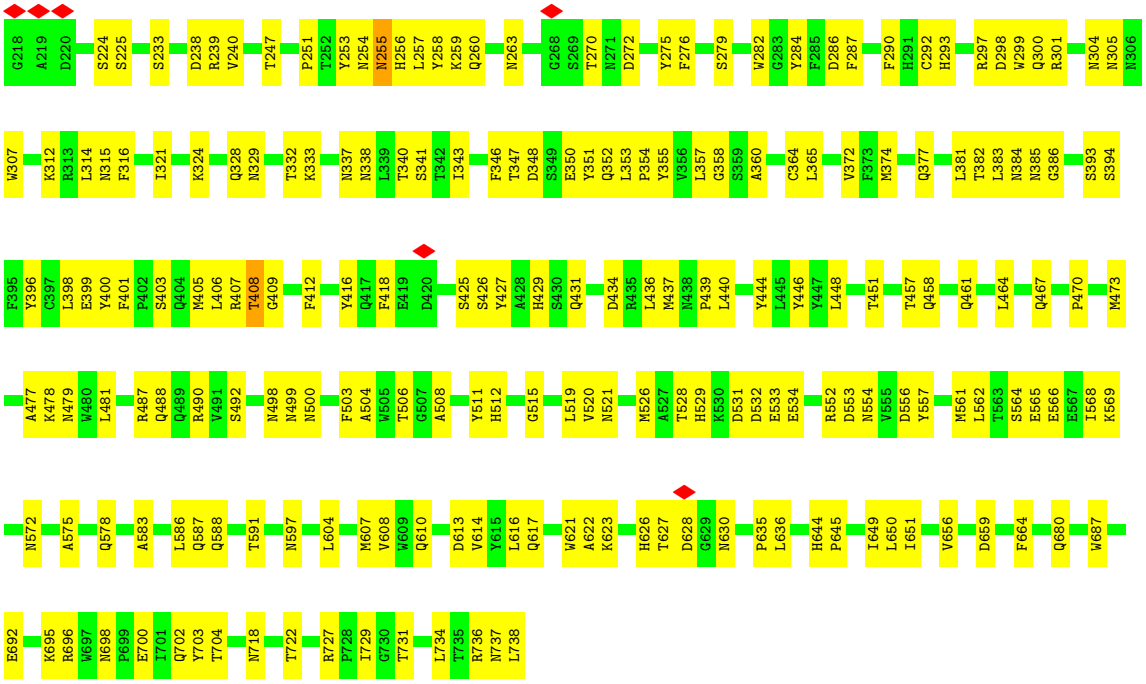
Chain L:





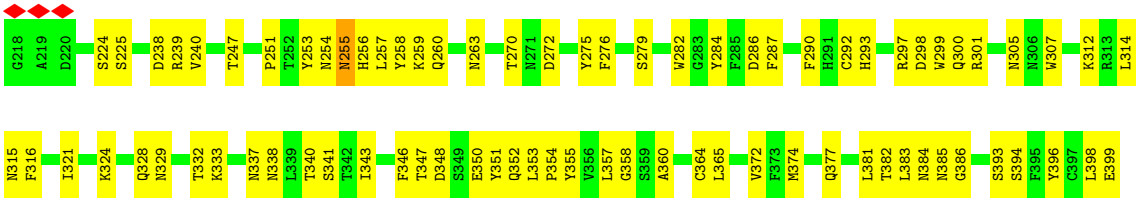
• Molecule 1: Capsid protein VP1

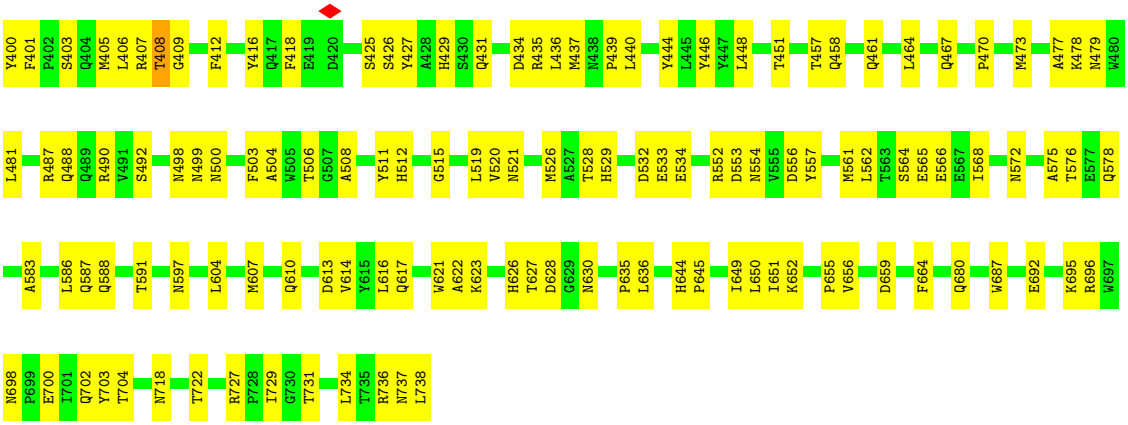
Chain M:



• Molecule 1: Capsid protein VP1

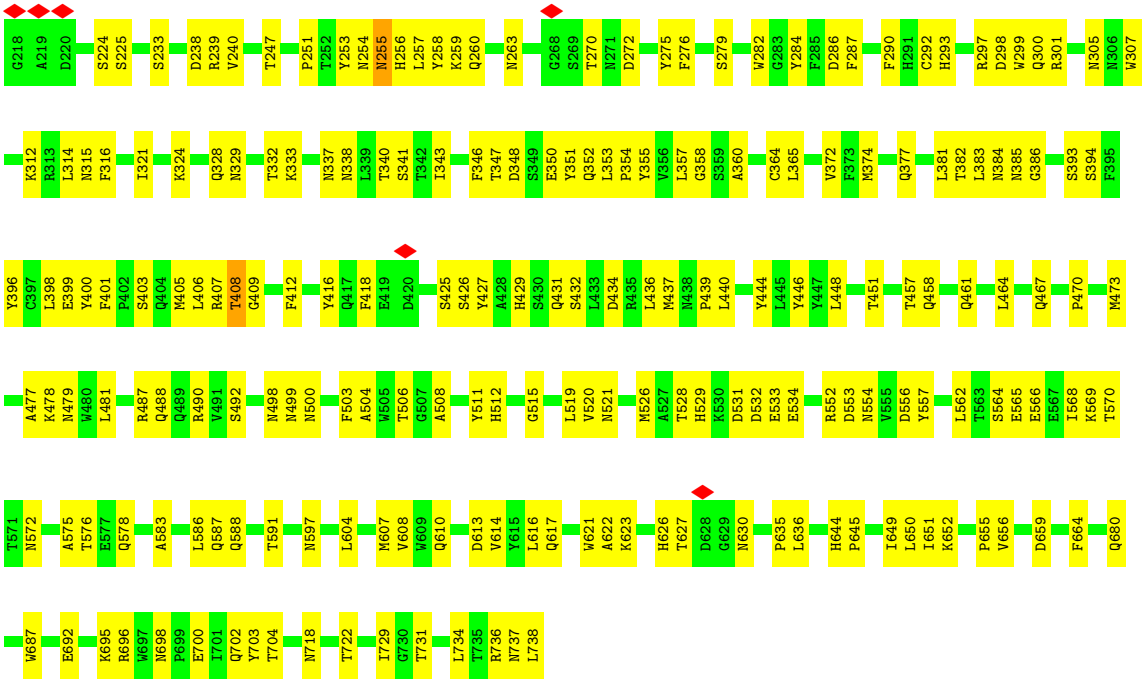
Chain N:





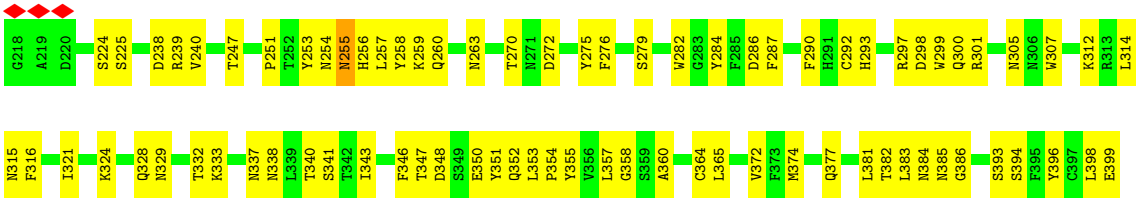
• Molecule 1: Capsid protein VP1

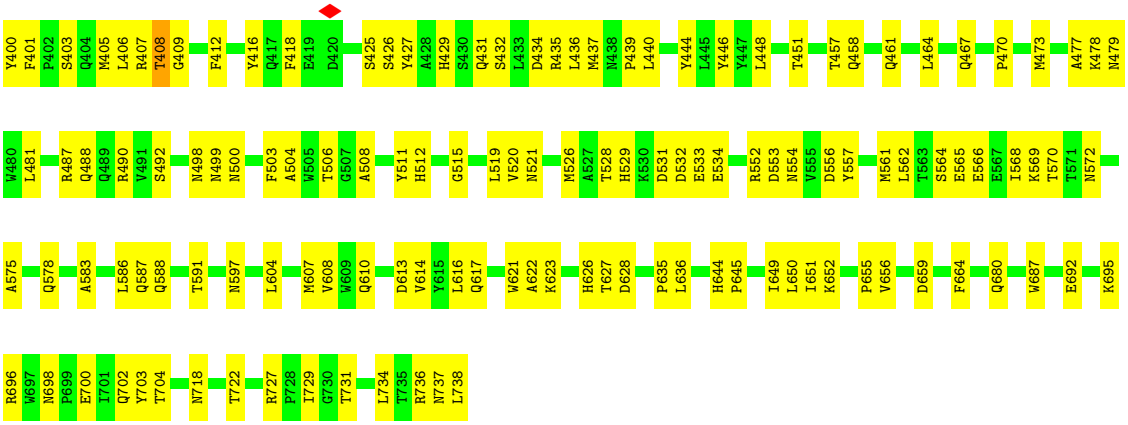
Chain O:



• Molecule 1: Capsid protein VP1

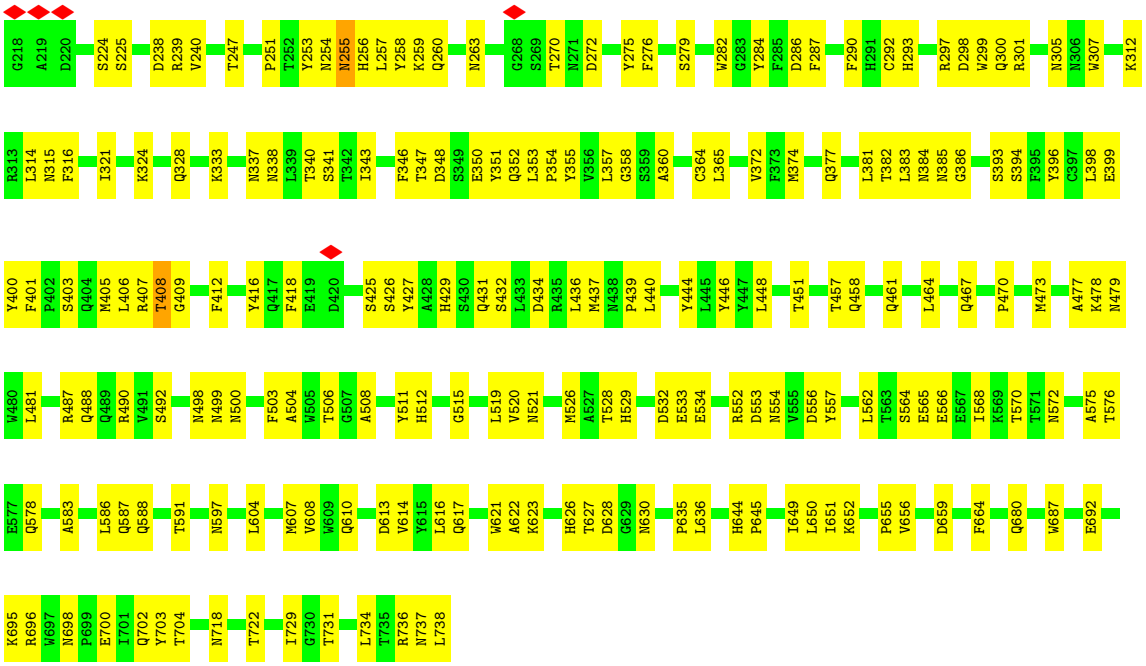
Chain P:





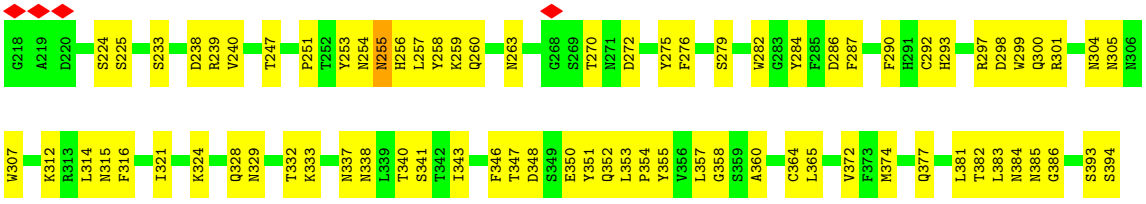
• Molecule 1: Capsid protein VP1

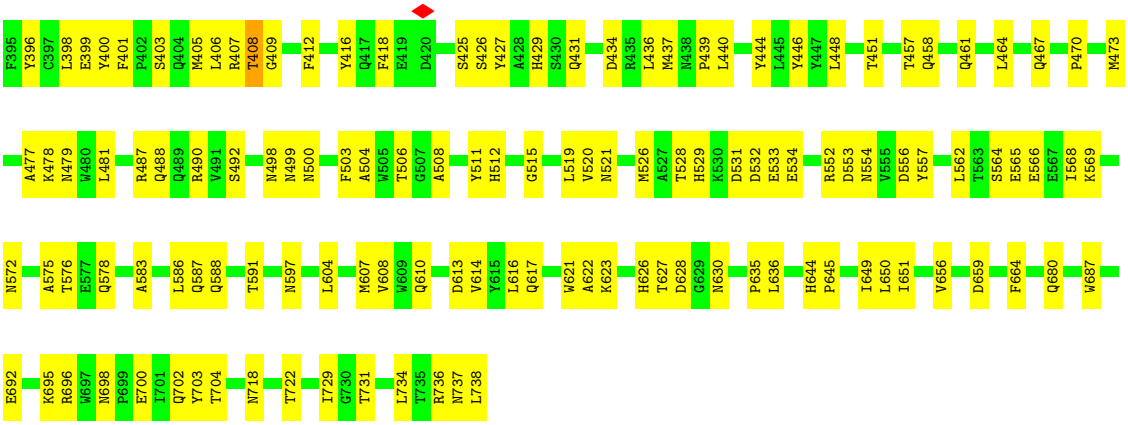
Chain Q:



• Molecule 1: Capsid protein VP1

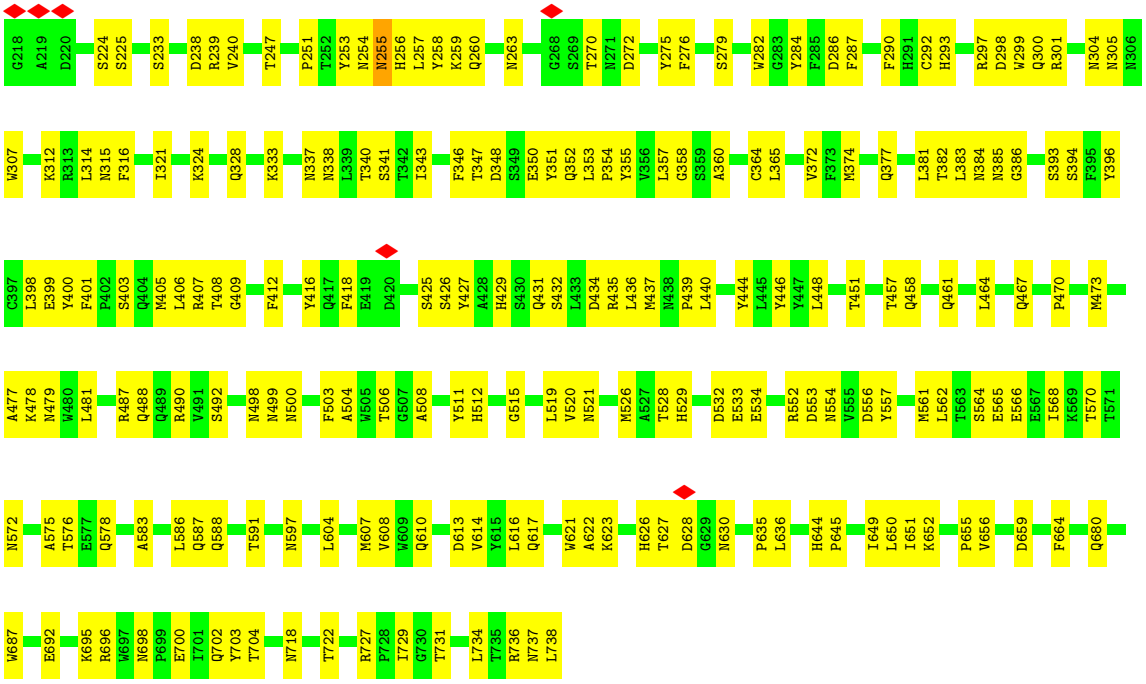
Chain R:





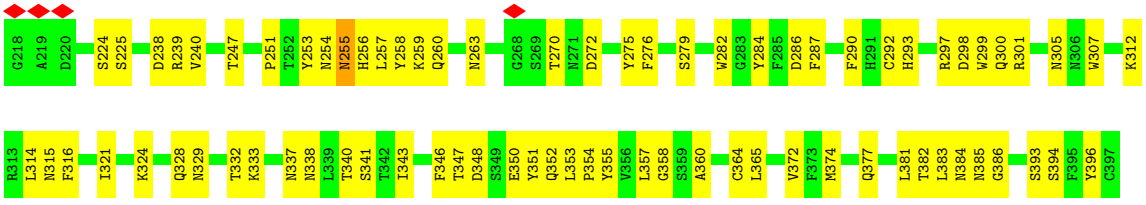
• Molecule 1: Capsid protein VP1

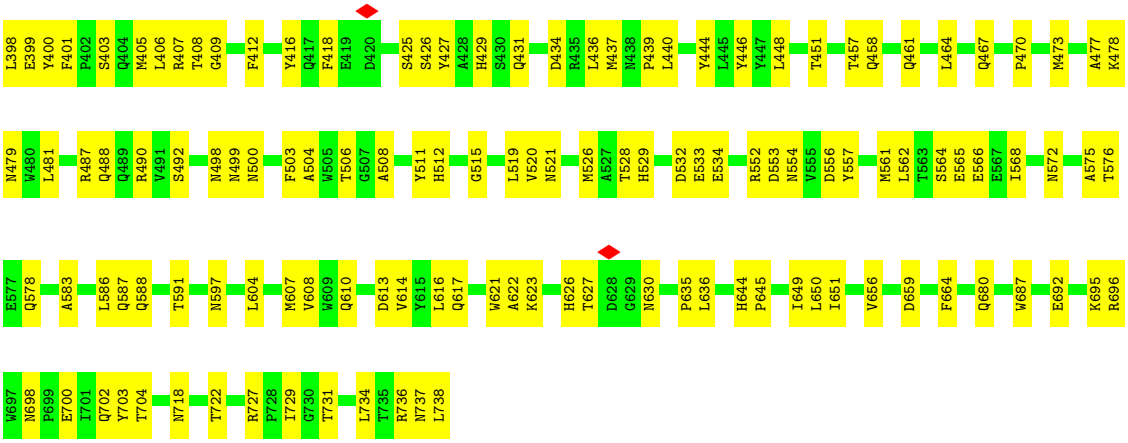
Chain S:



• Molecule 1: Capsid protein VP1

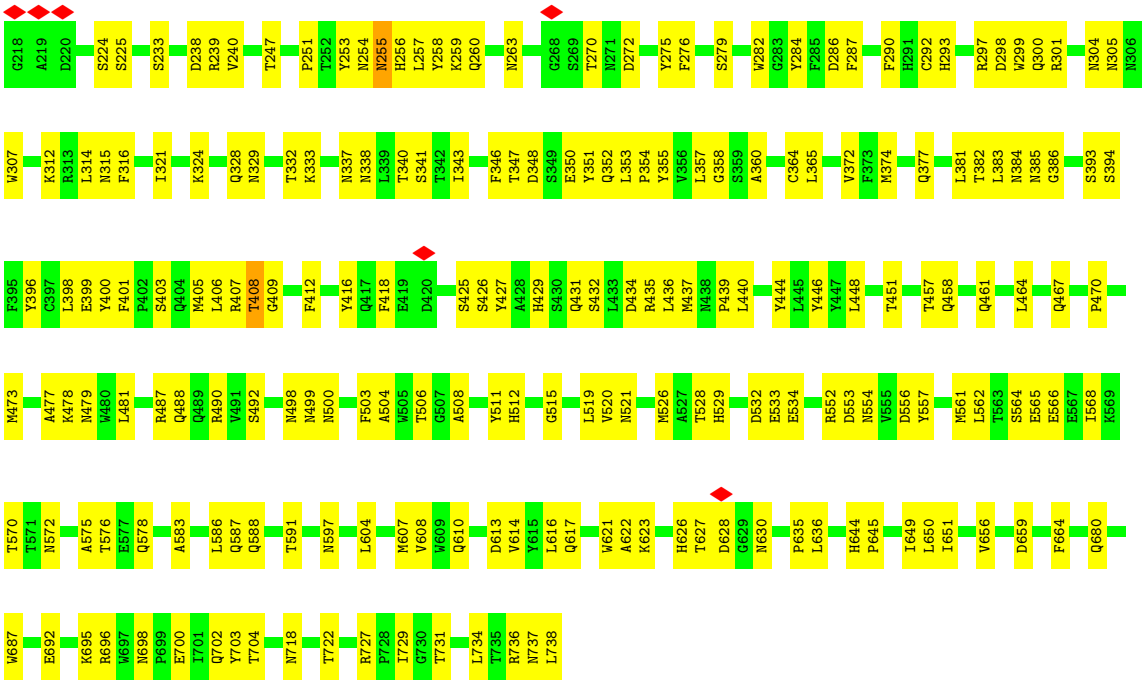
Chain T:





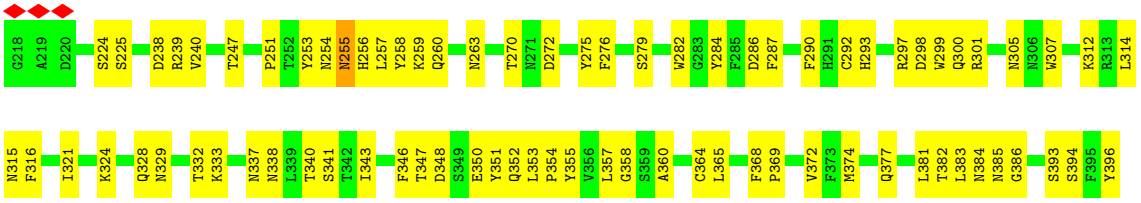
• Molecule 1: Capsid protein VP1

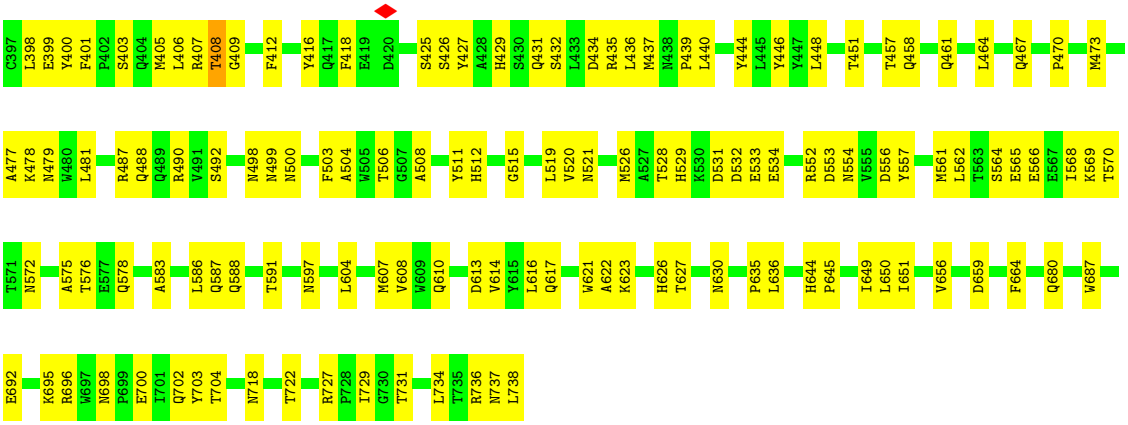
Chain U:



• Molecule 1: Capsid protein VP1

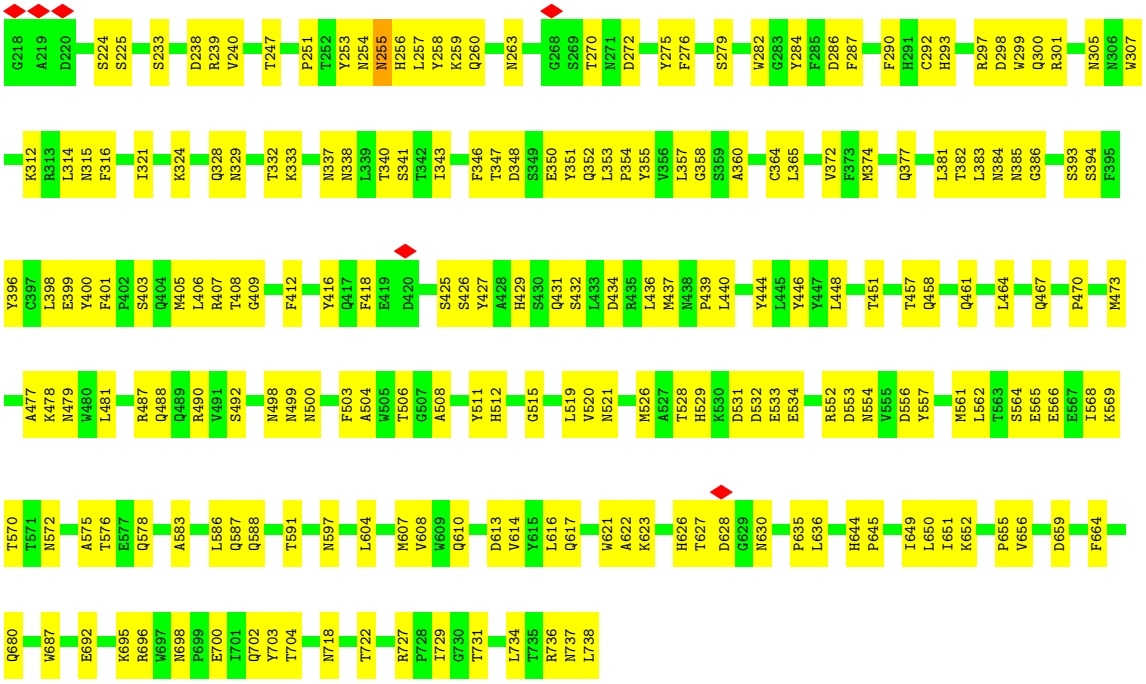
Chain V:





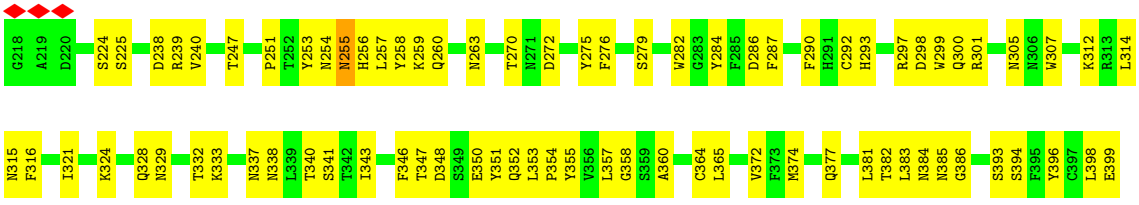
• Molecule 1: Capsid protein VP1

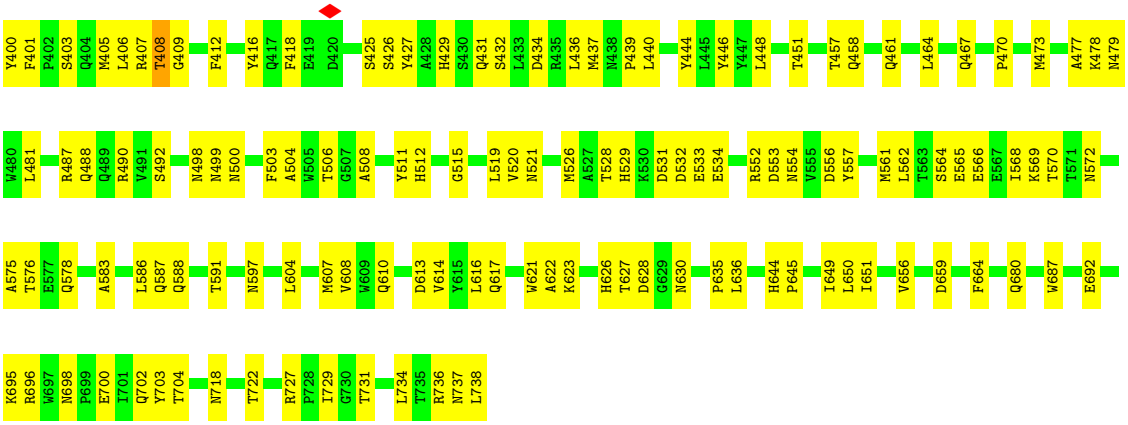
Chain W:



• Molecule 1: Capsid protein VP1

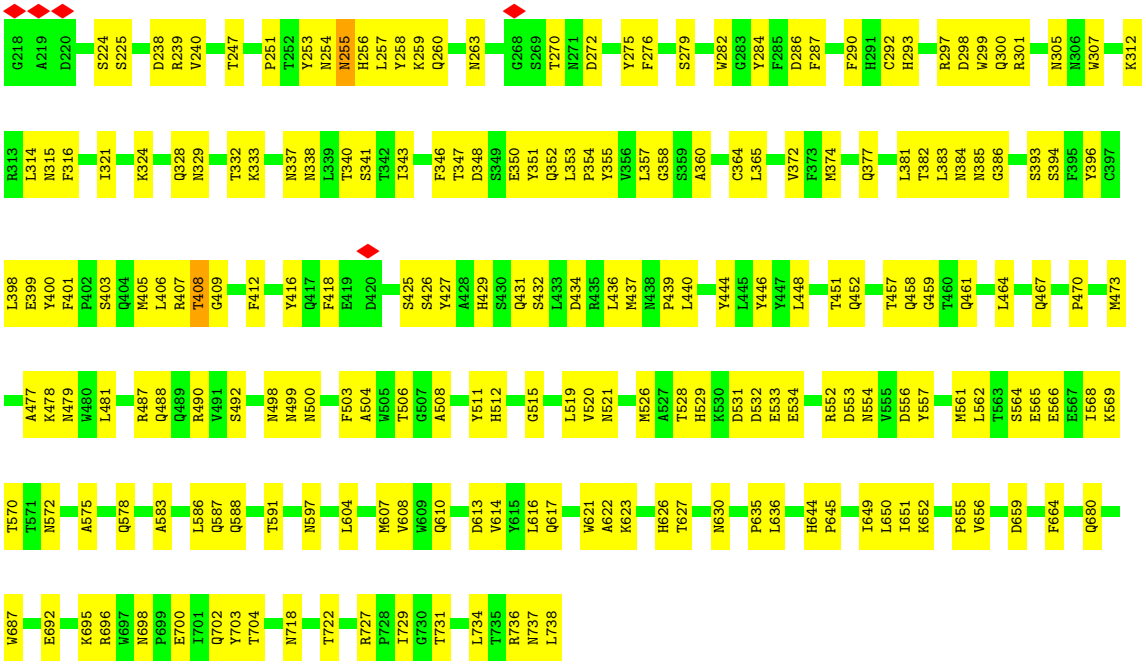
Chain X:





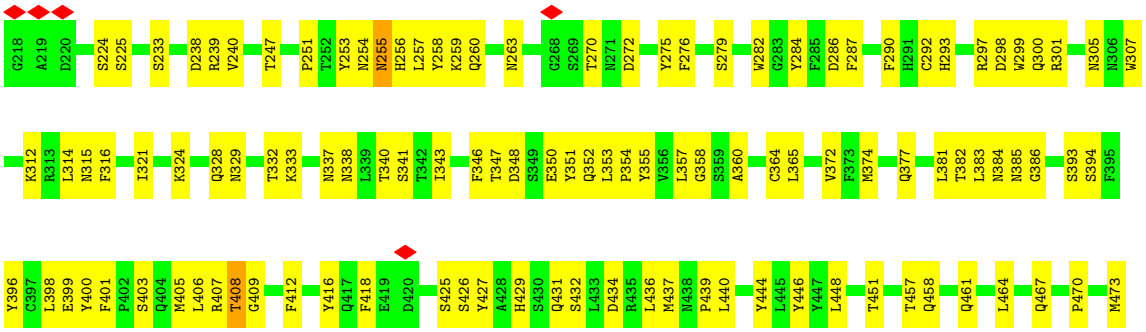
• Molecule 1: Capsid protein VP1

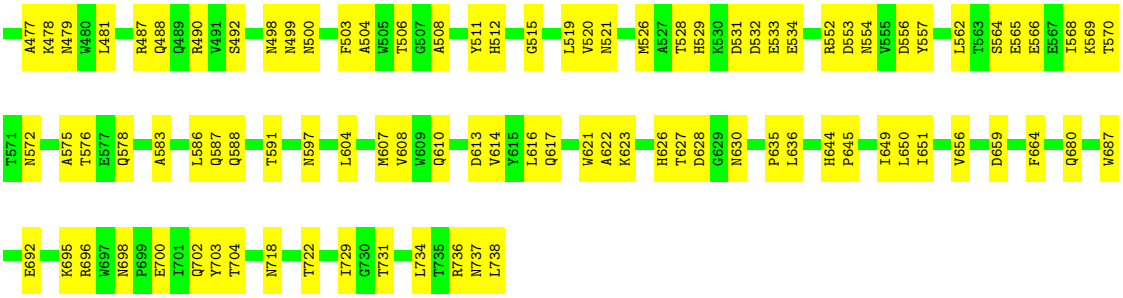
Chain Y:



• Molecule 1: Capsid protein VP1

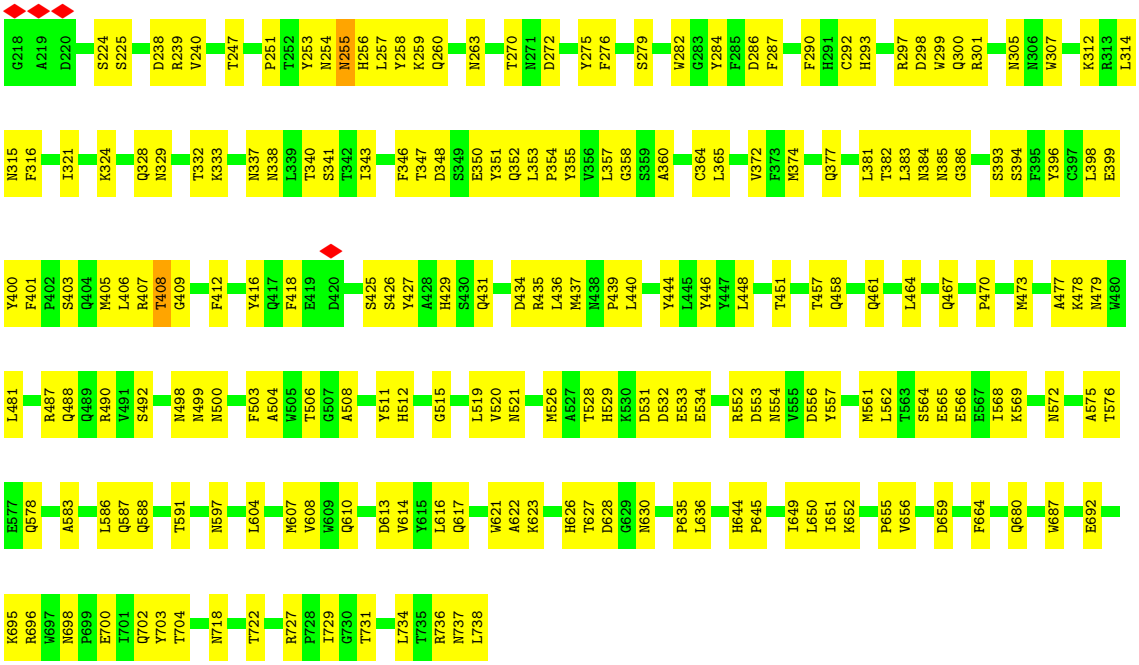
Chain Z:





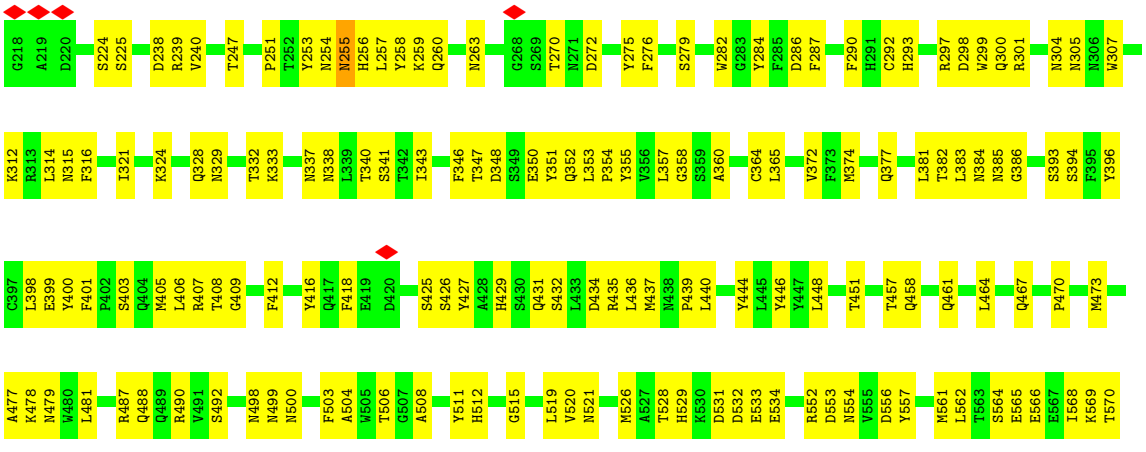
• Molecule 1: Capsid protein VP1

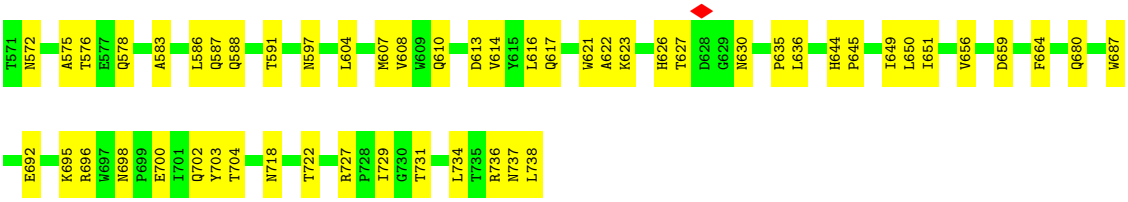
Chain a:



• Molecule 1: Capsid protein VP1

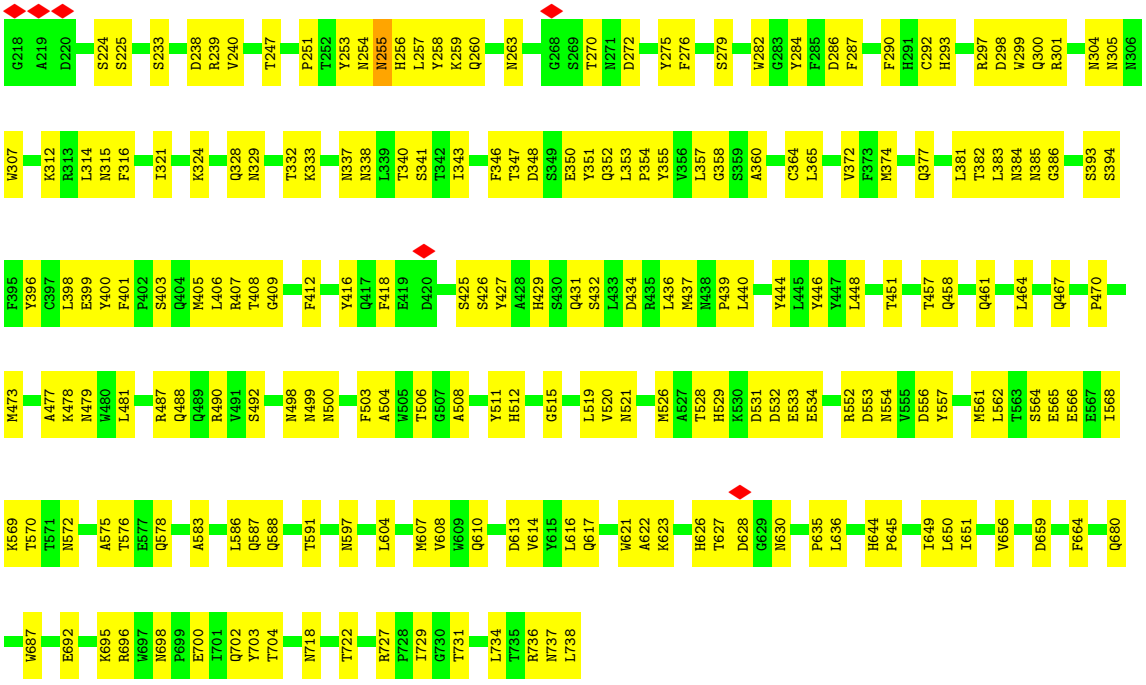
Chain b:





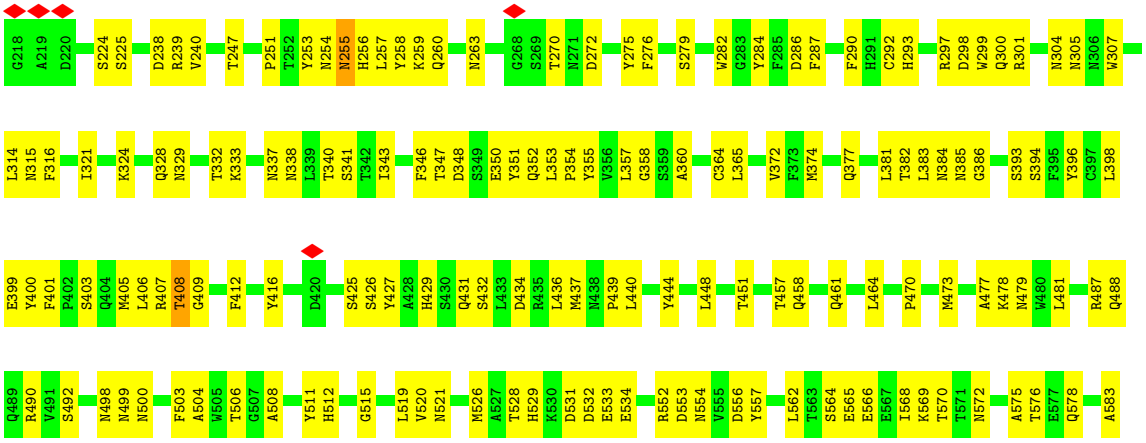
• Molecule 1: Capsid protein VP1

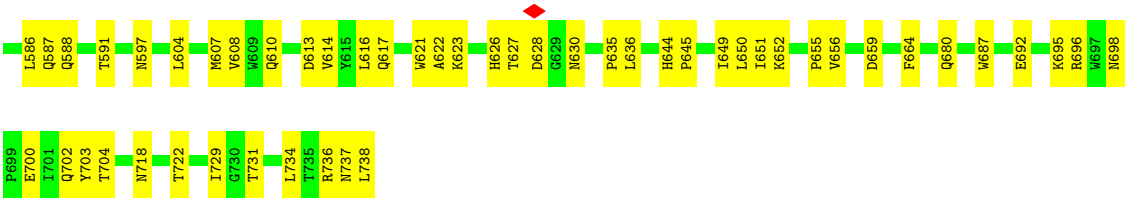
Chain c:



• Molecule 1: Capsid protein VP1

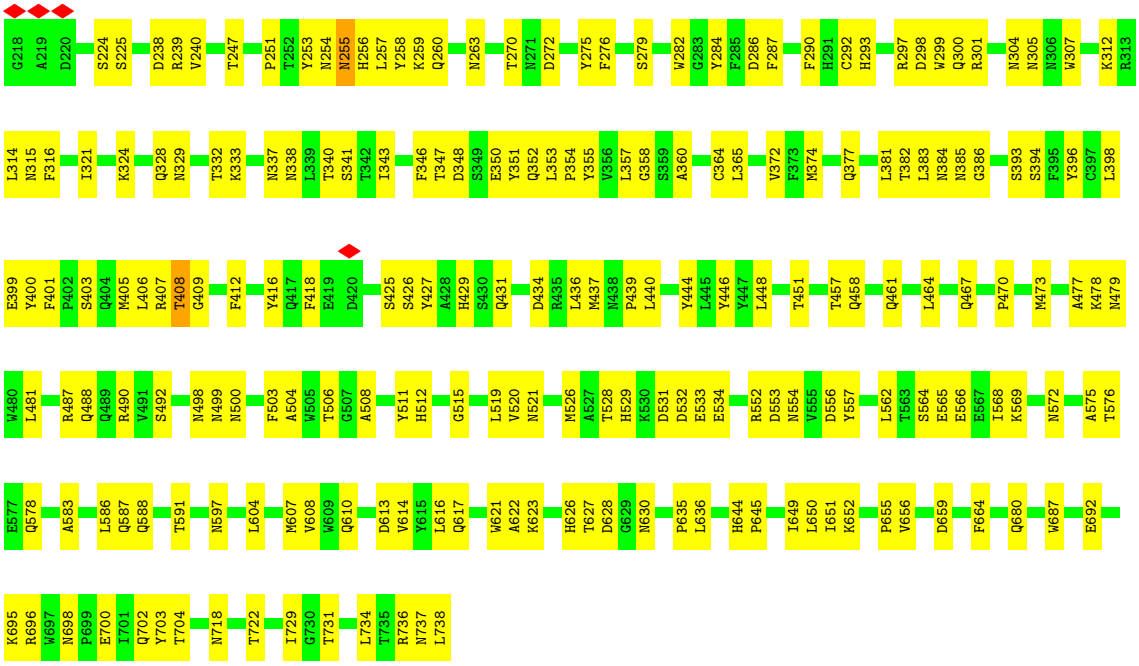
Chain d:





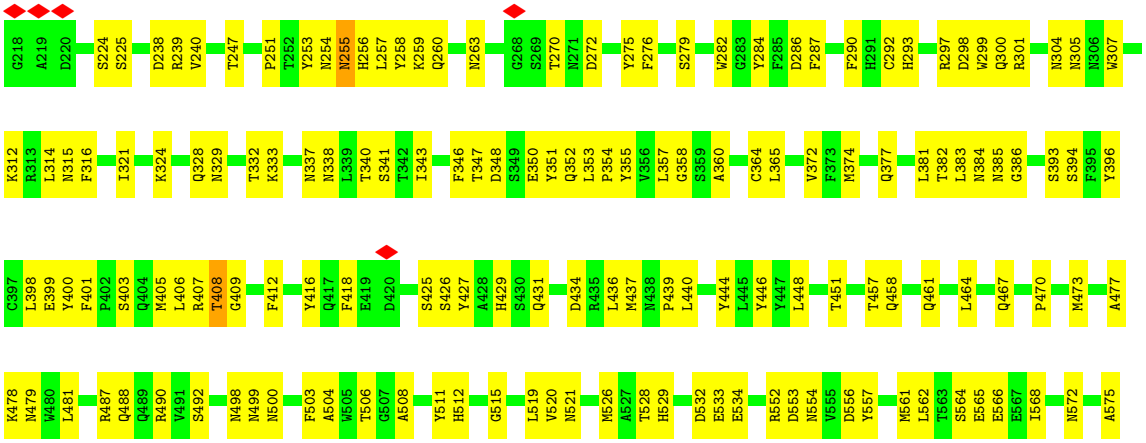
• Molecule 1: Capsid protein VP1

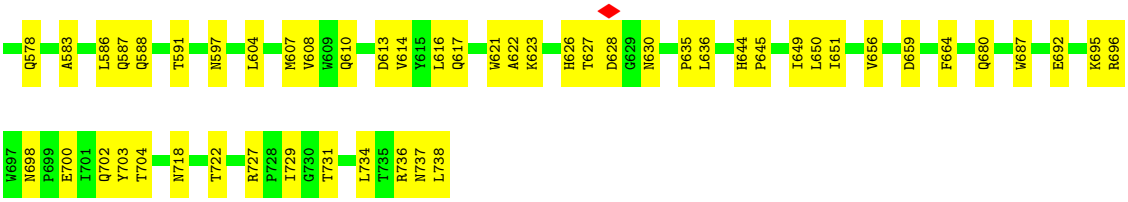
Chain e:



• Molecule 1: Capsid protein VP1

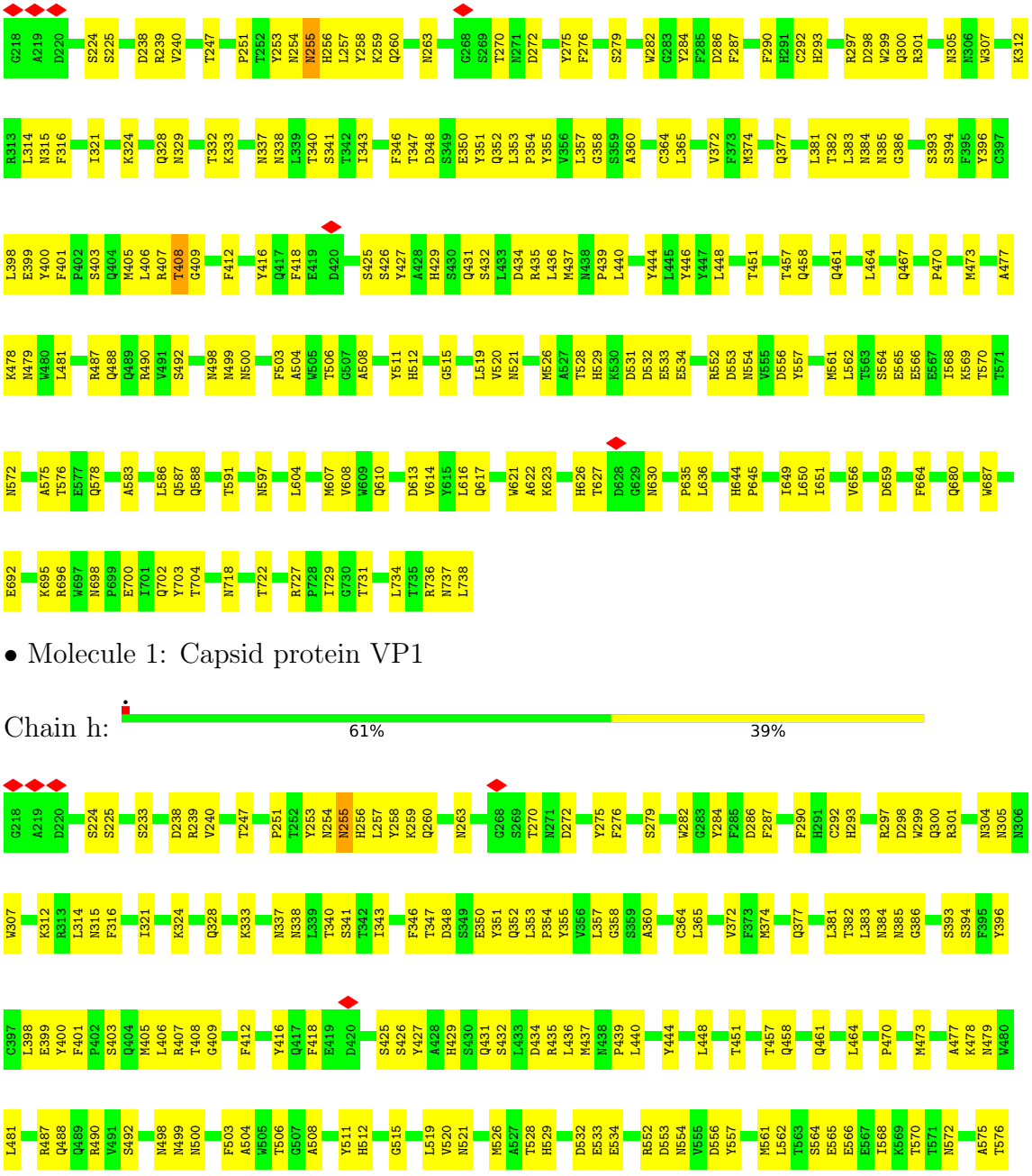
Chain f:





• Molecule 1: Capsid protein VP1

Chain g:

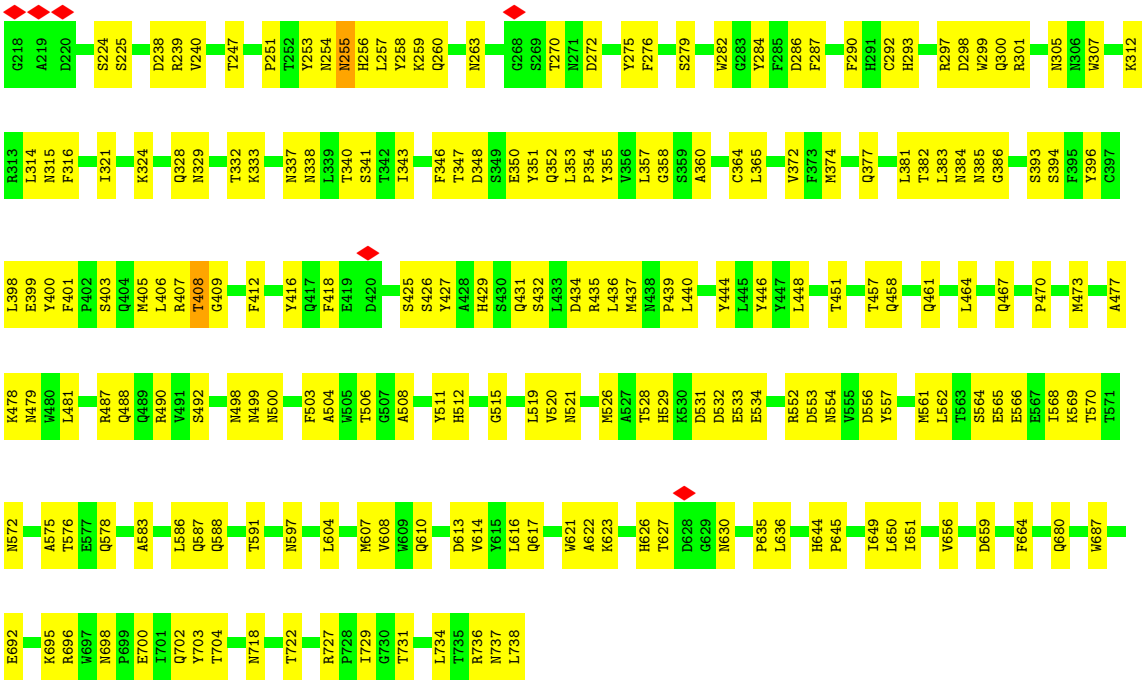


• Molecule 1: Capsid protein VP1

Chain h:

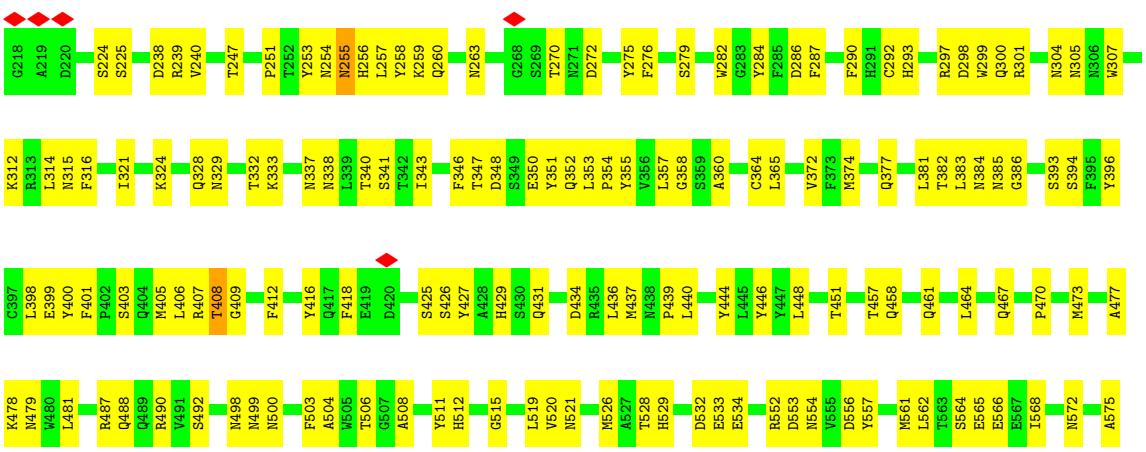
• Molecule 1: Capsid protein VP1

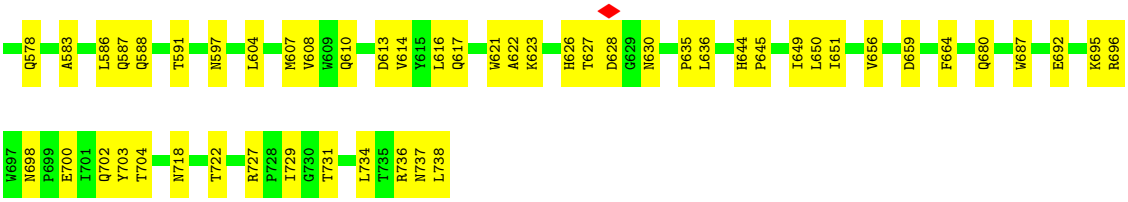
Chain i:



• Molecule 1: Capsid protein VP1

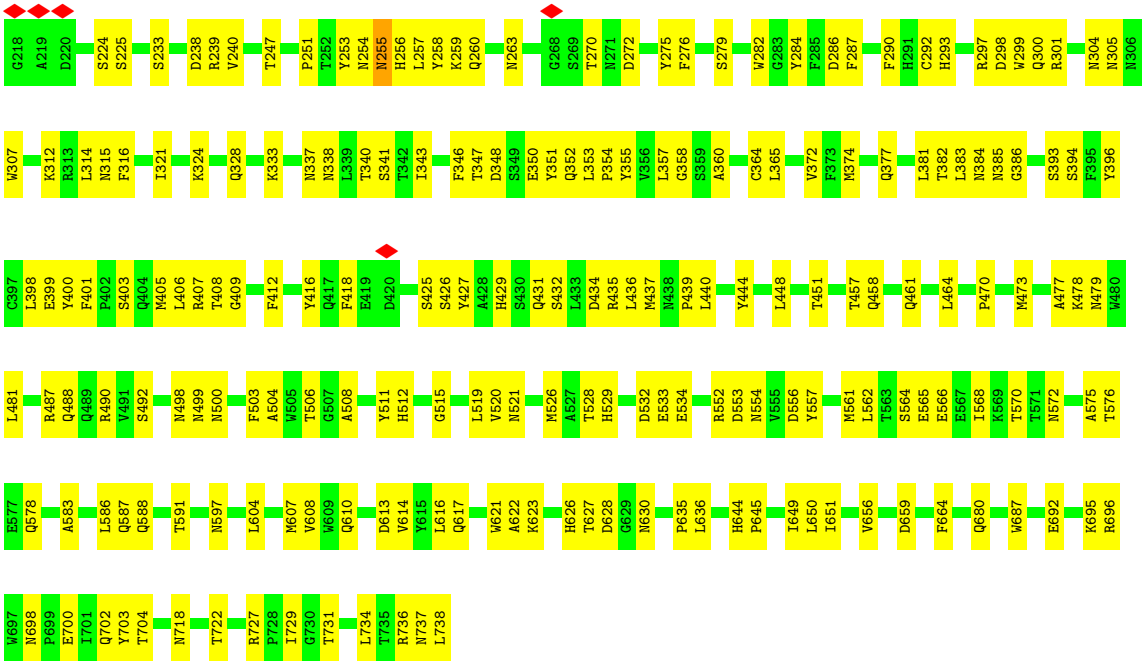
Chain j:





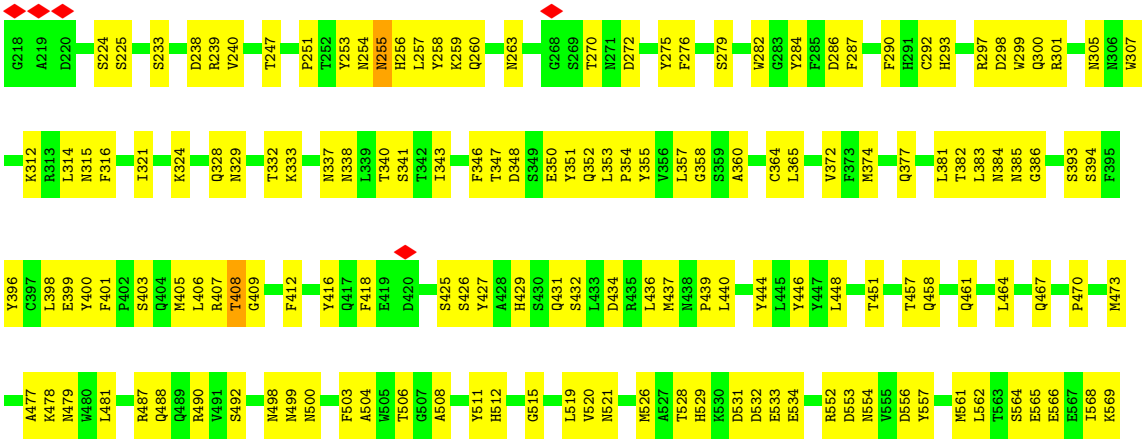
• Molecule 1: Capsid protein VP1

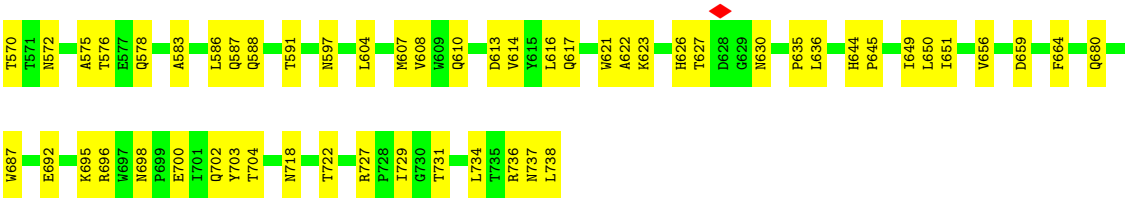
Chain k:



• Molecule 1: Capsid protein VP1

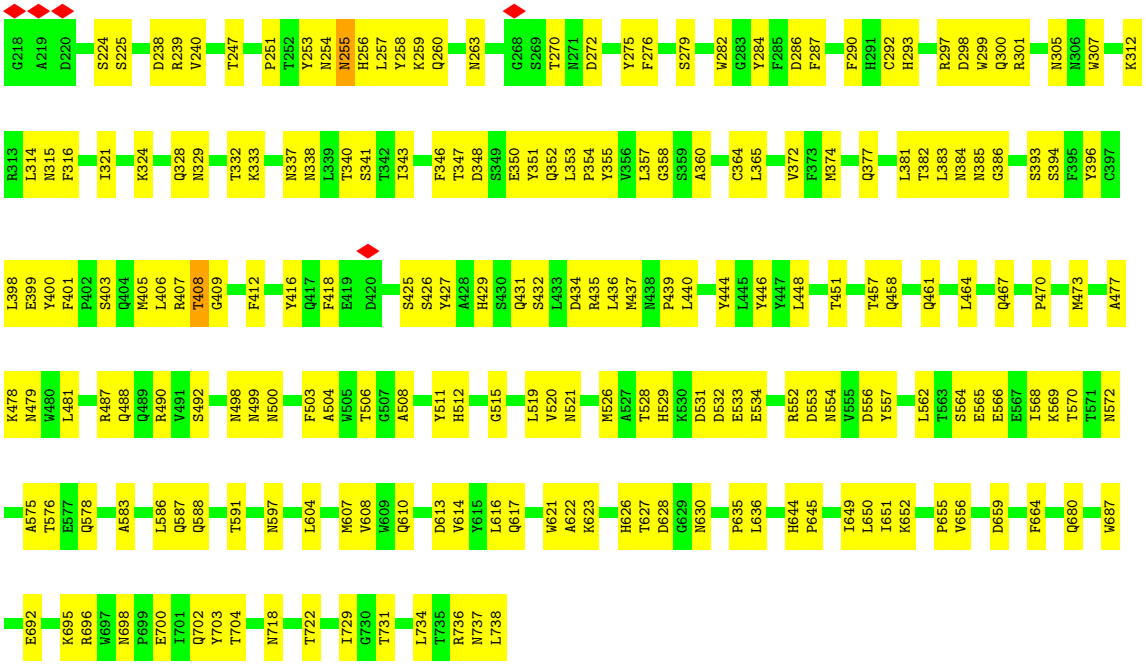
Chain l:





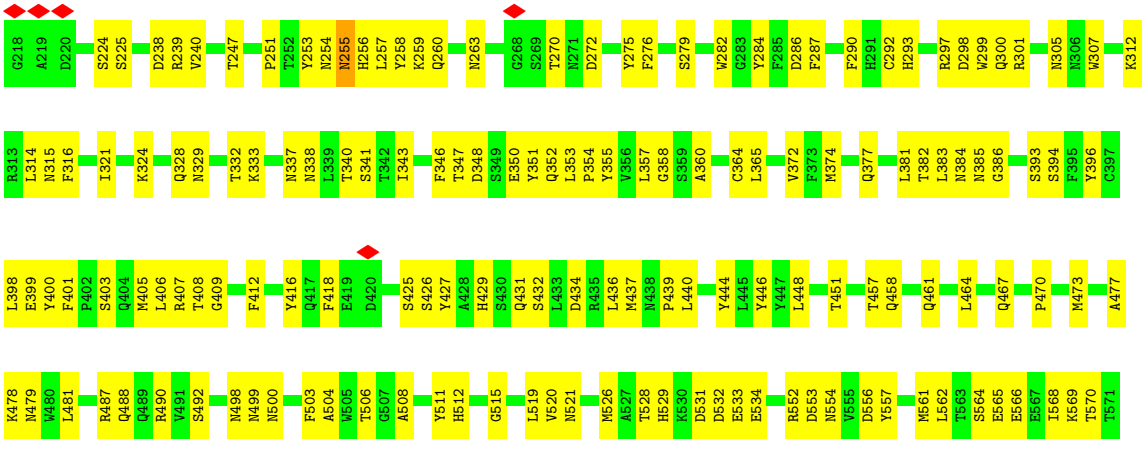
• Molecule 1: Capsid protein VP1

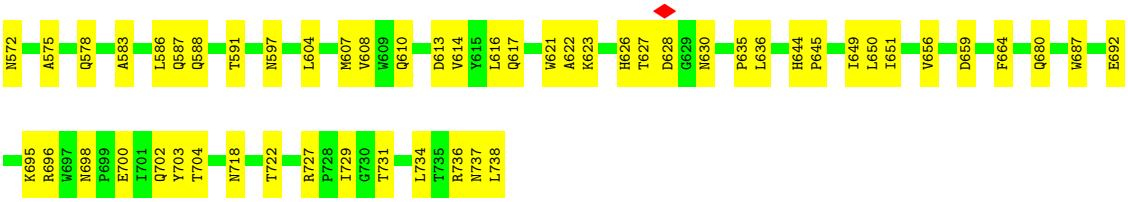
Chain m:



• Molecule 1: Capsid protein VP1

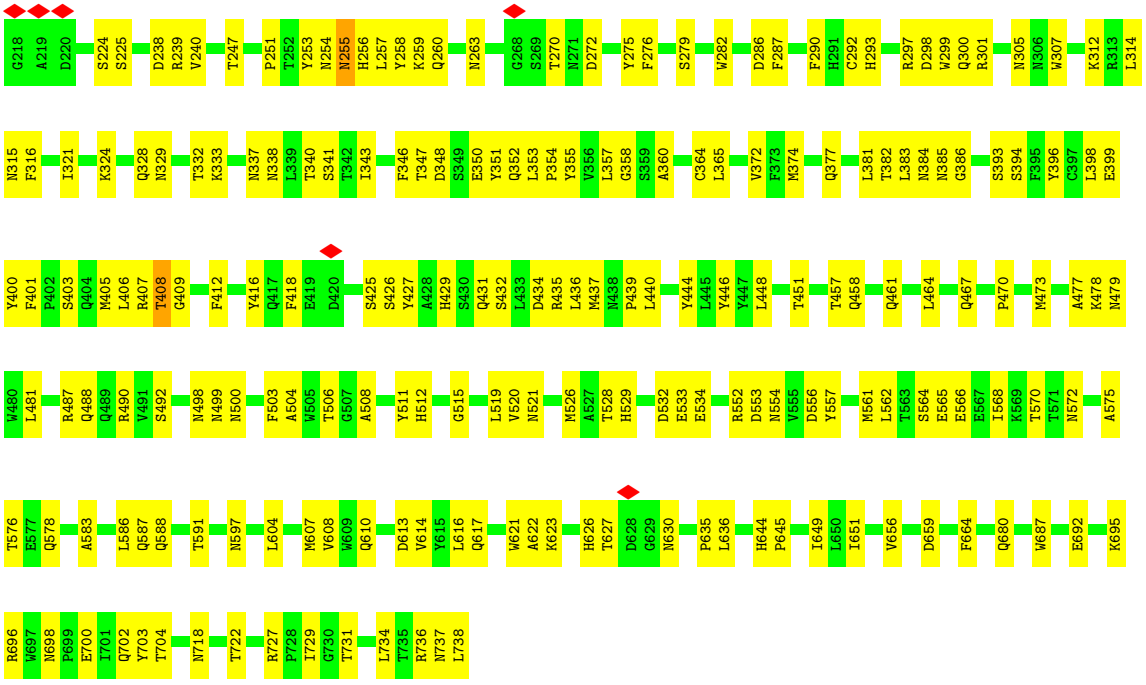
Chain n:





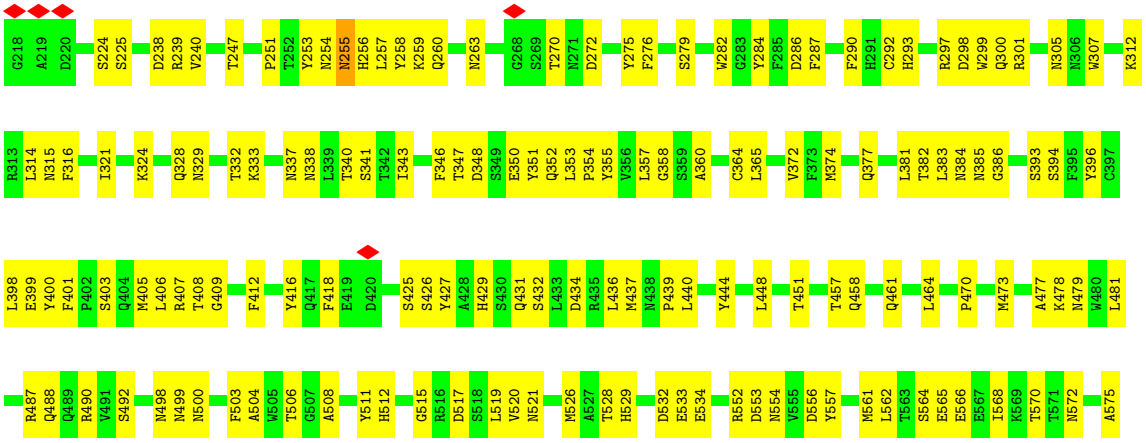
• Molecule 1: Capsid protein VP1

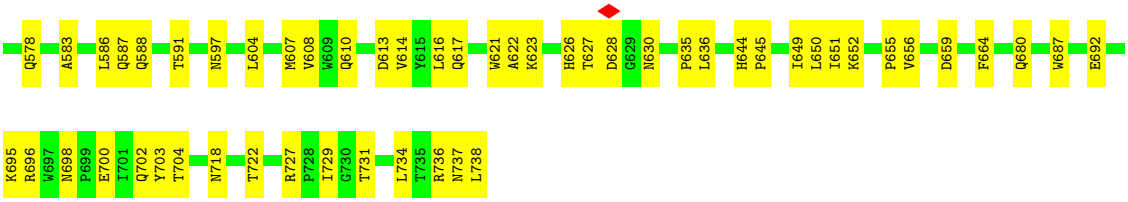
Chain o:



• Molecule 1: Capsid protein VP1

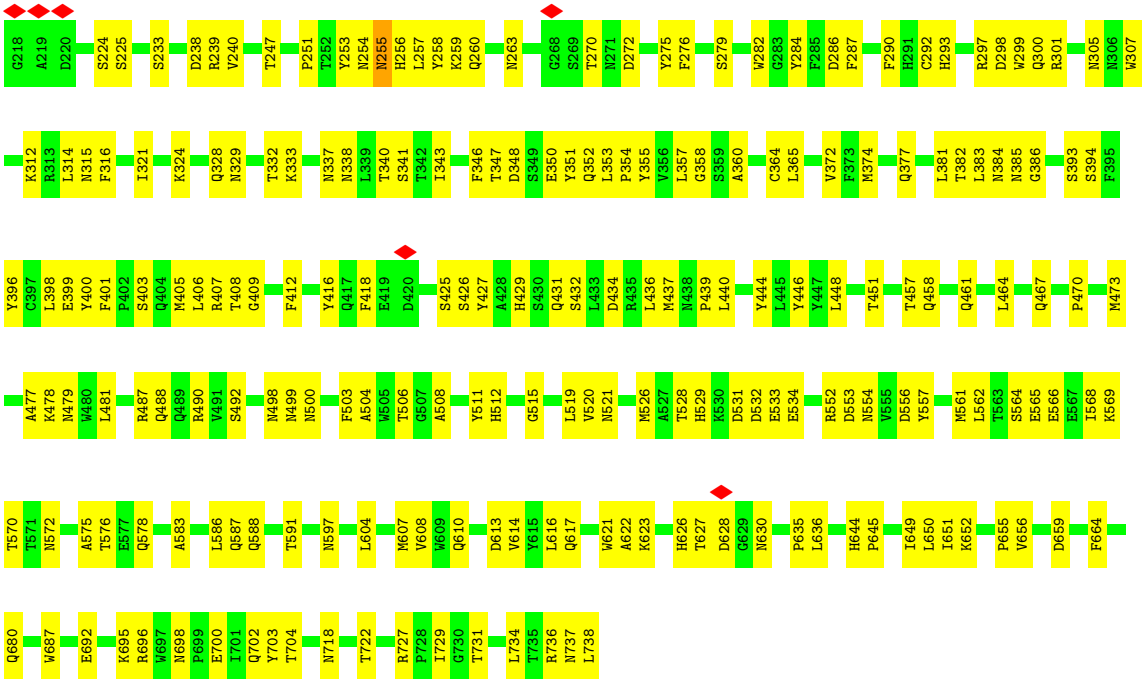
Chain p:





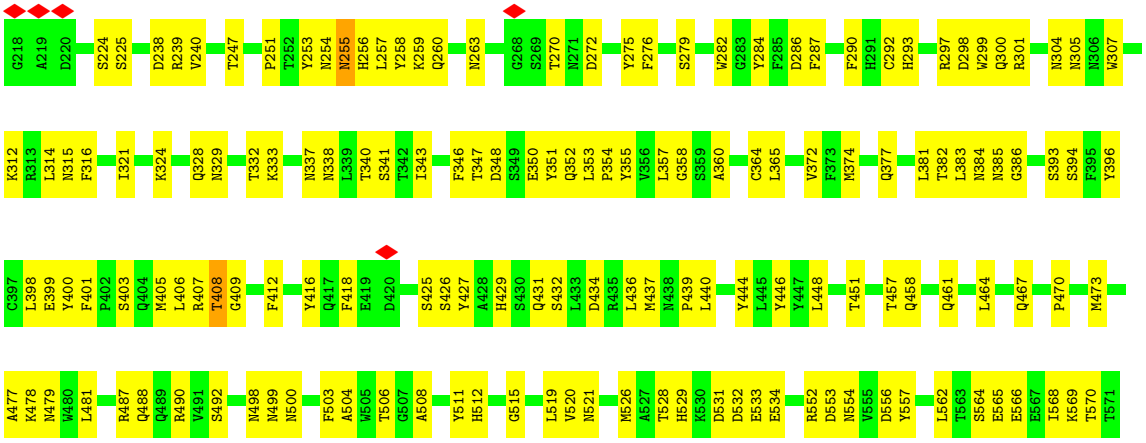
• Molecule 1: Capsid protein VP1

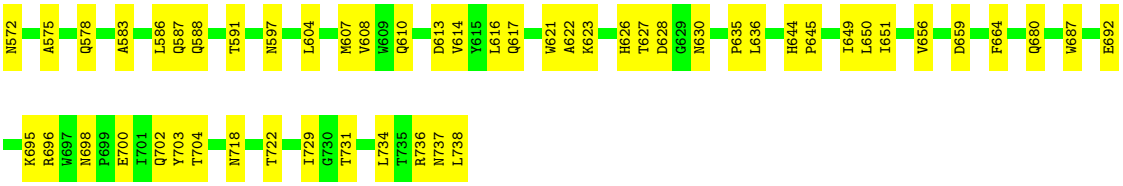
Chain q:



• Molecule 1: Capsid protein VP1

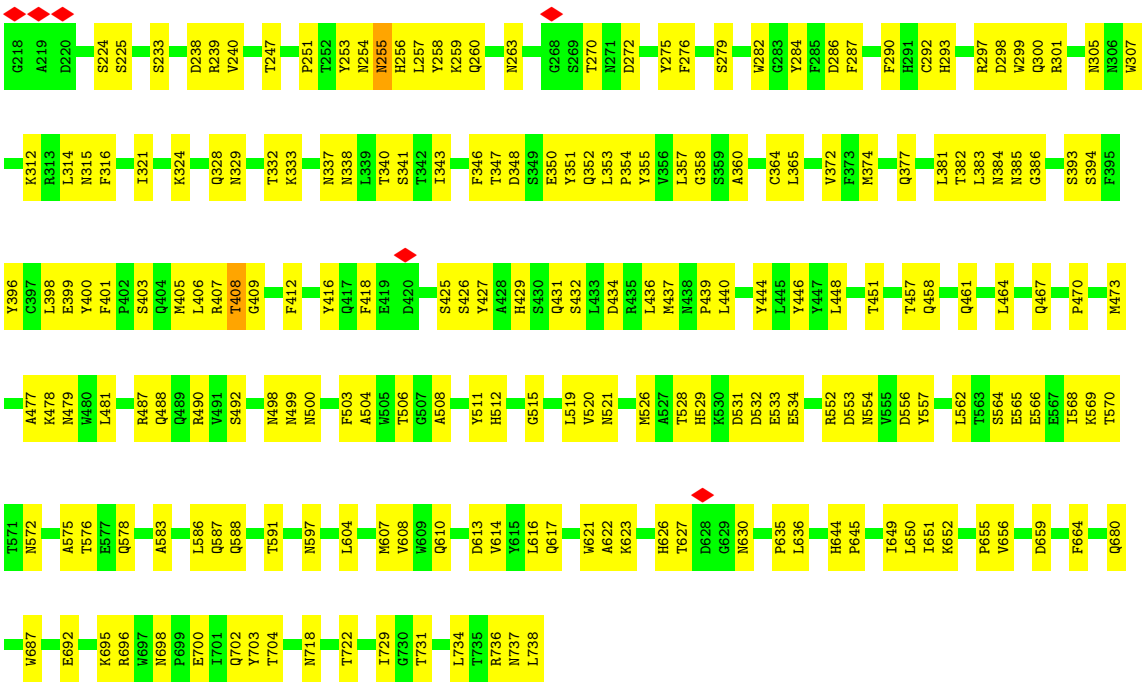
Chain r:





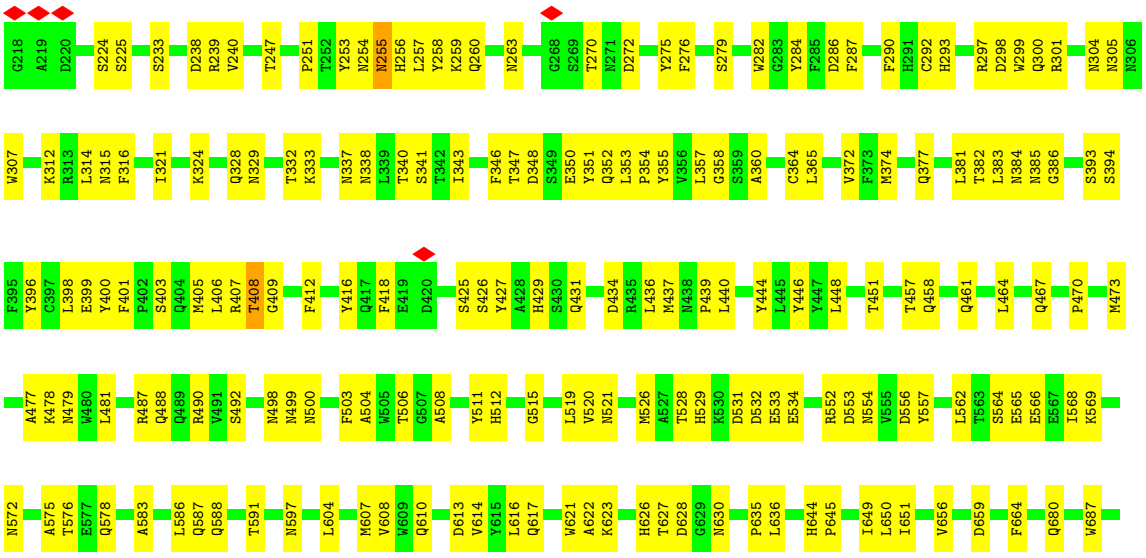
• Molecule 1: Capsid protein VP1

Chain s:



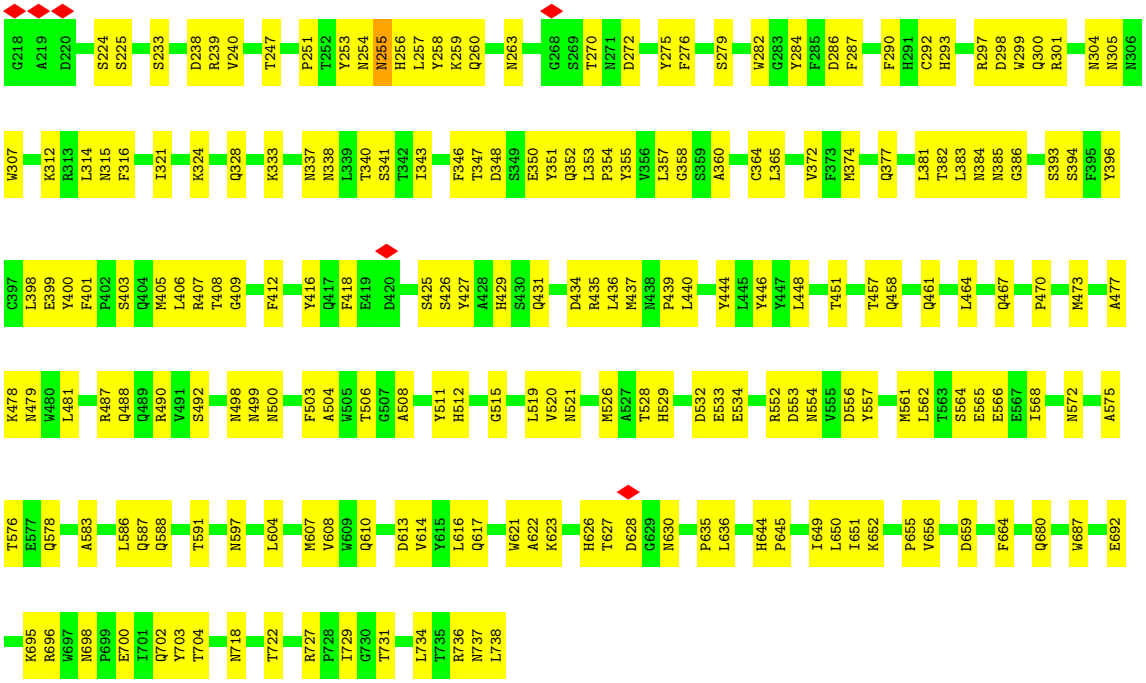
• Molecule 1: Capsid protein VP1

Chain t:



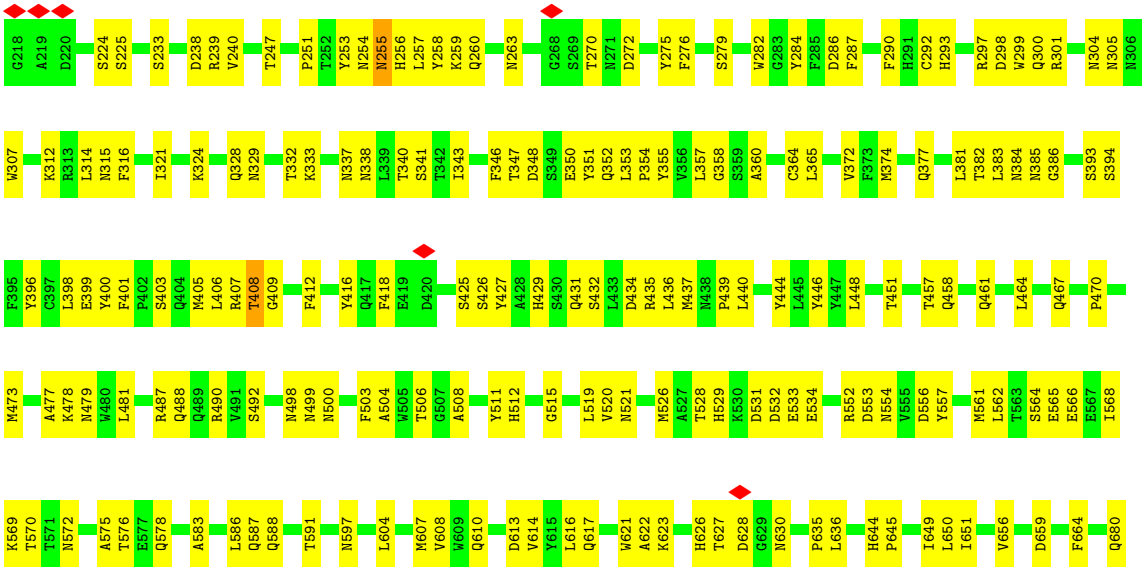
• Molecule 1: Capsid protein VP1

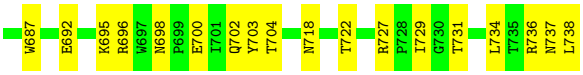
Chain u:



• Molecule 1: Capsid protein VP1

Chain v:



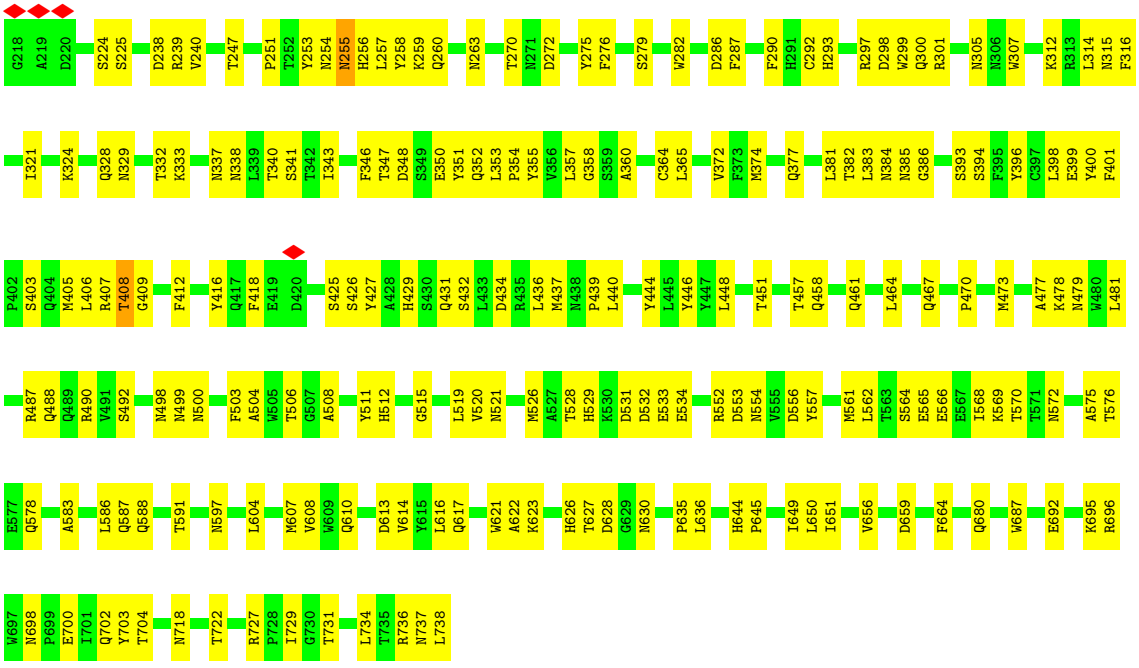


• Molecule 1: Capsid protein VP1

Chain w:

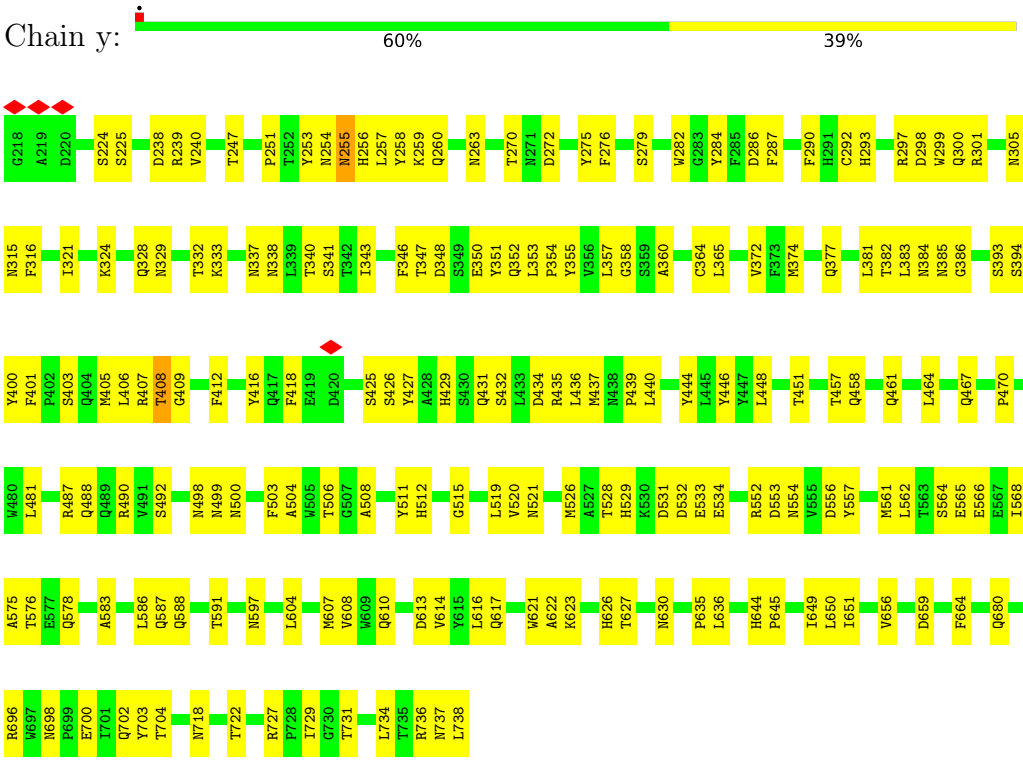
• Molecule 1: Capsid protein VP1

Chain x:



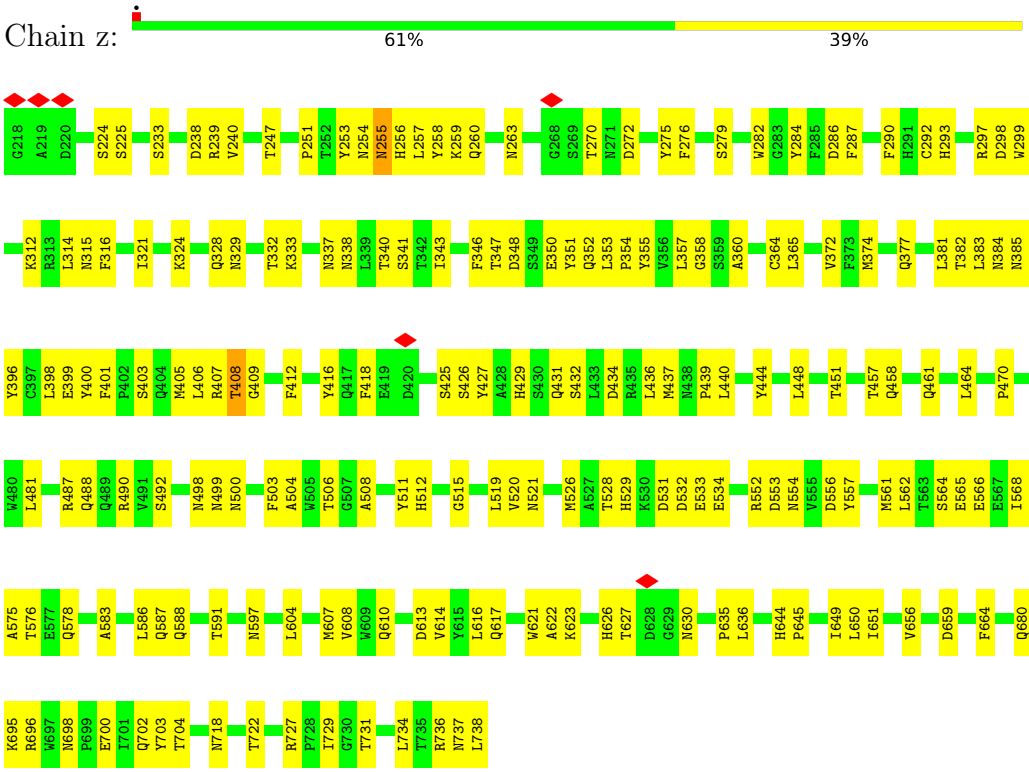
• Molecule 1: Capsid protein VP1

Chain y:



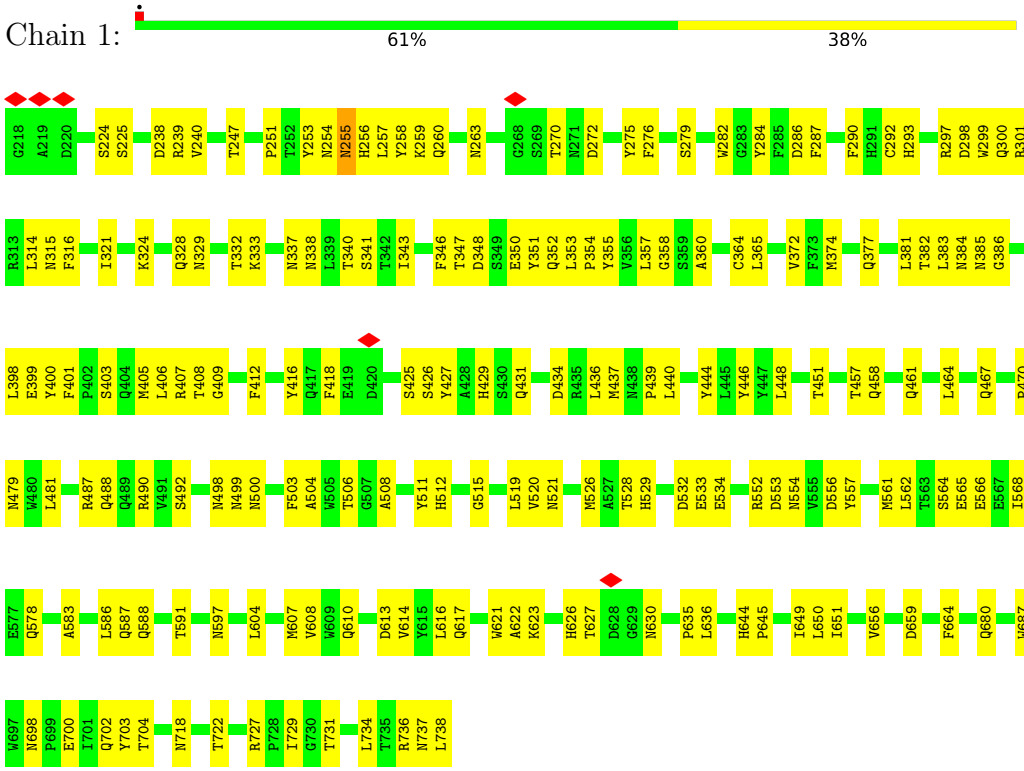
• Molecule 1: Capsid protein VP1

Chain z:



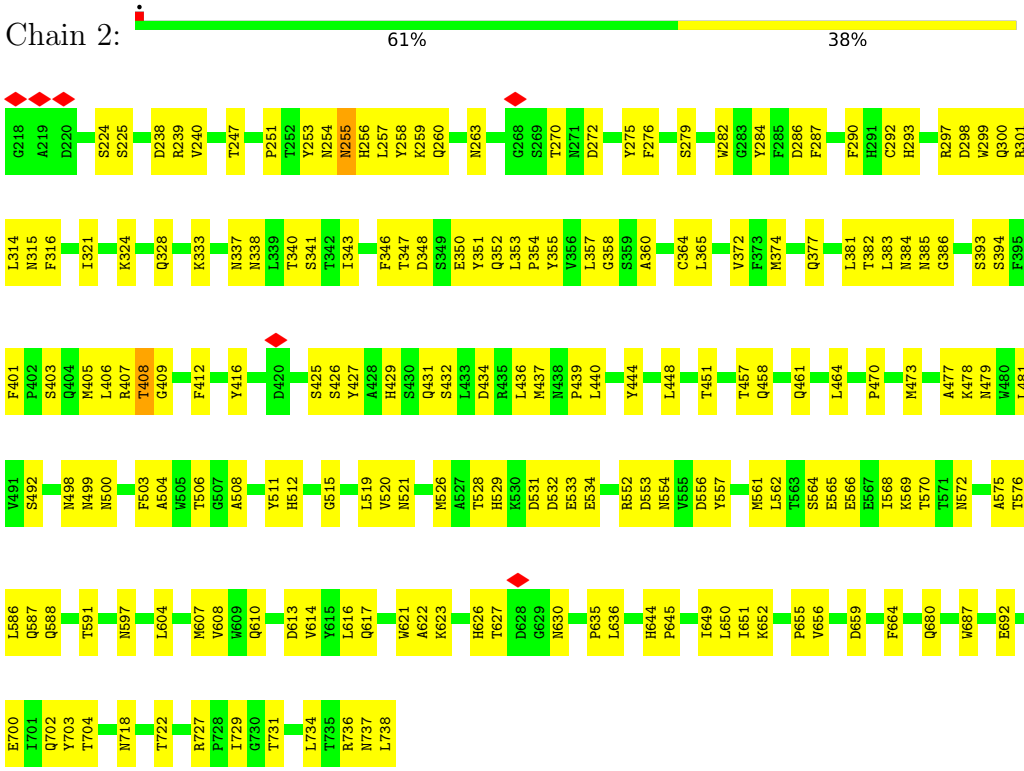
• Molecule 1: Capsid protein VP1

Chain 1:



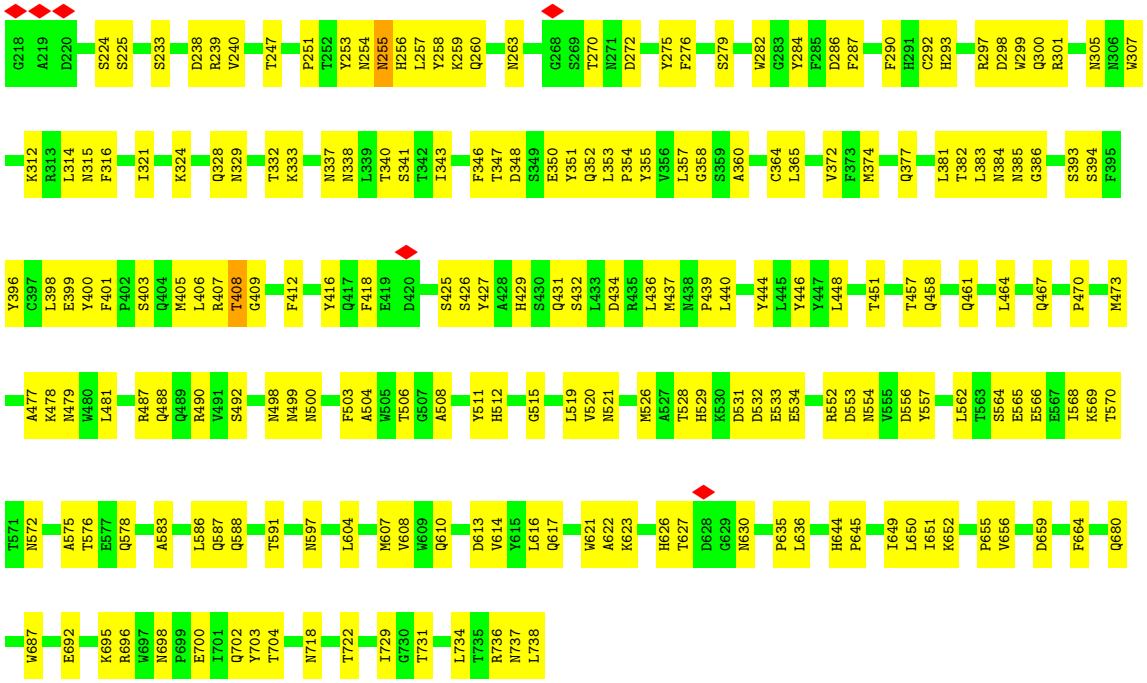
• Molecule 1: Capsid protein VP1

Chain 2:



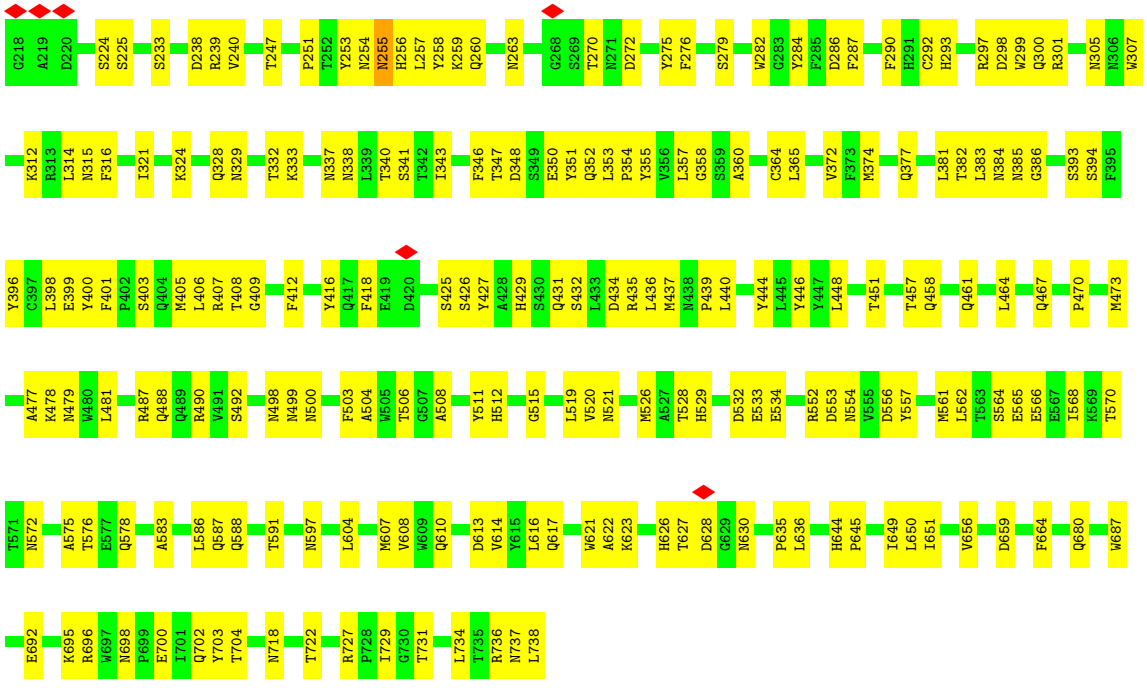
• Molecule 1: Capsid protein VP1

Chain 3:



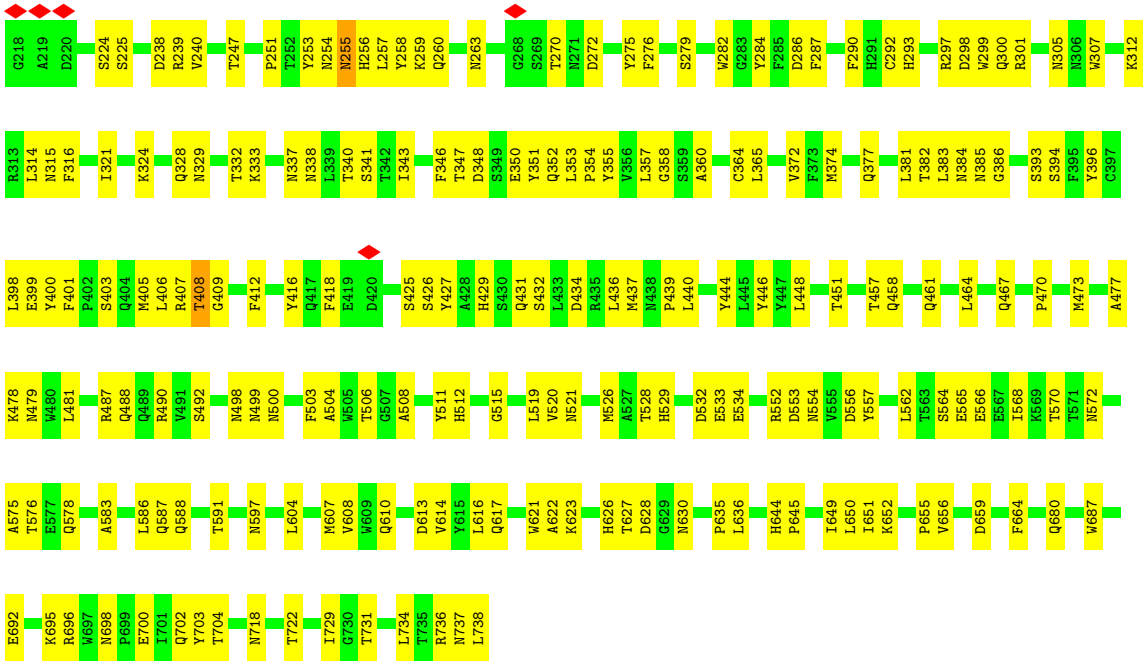
• Molecule 1: Capsid protein VP1

Chain 4:



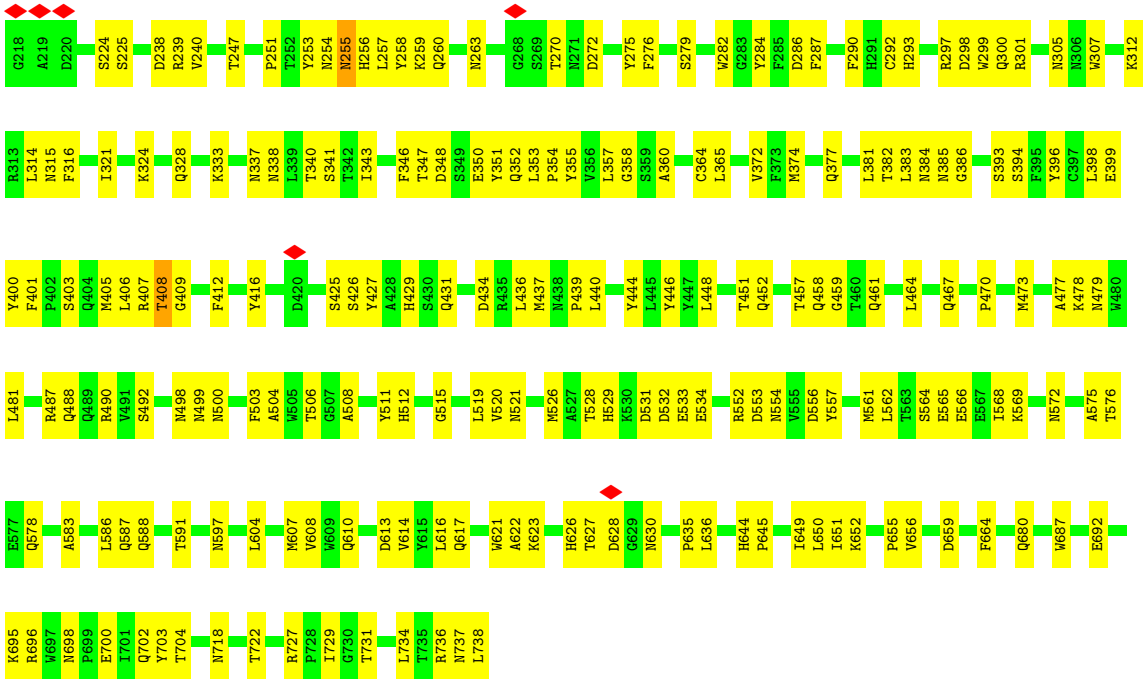
• Molecule 1: Capsid protein VP1

Chain 5:



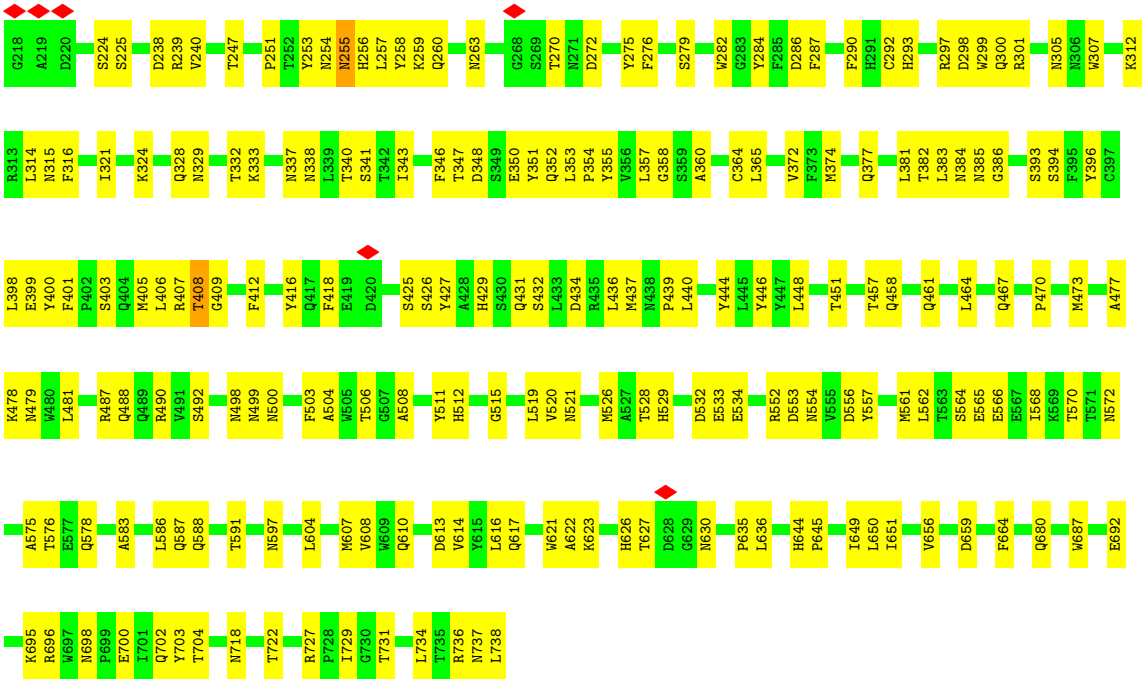
• Molecule 1: Capsid protein VP1

Chain 6:



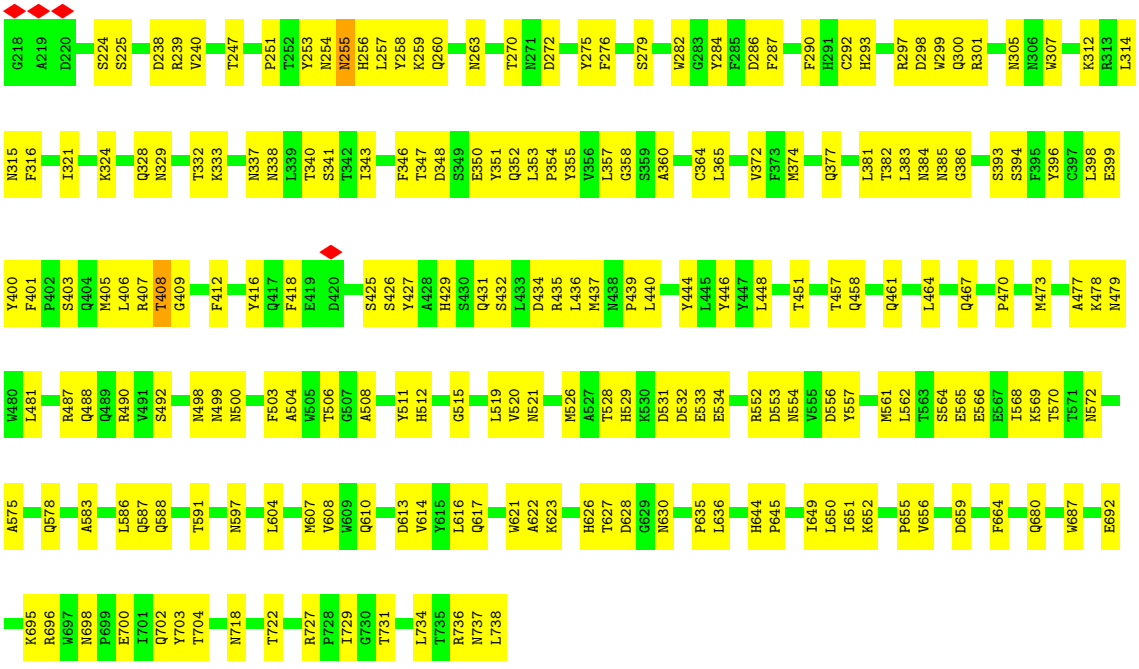
• Molecule 1: Capsid protein VP1

Chain 7:



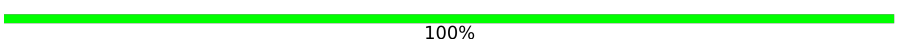
• Molecule 1: Capsid protein VP1

Chain 8:



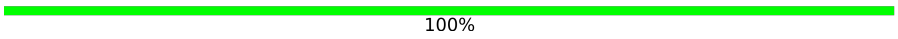
• Molecule 2: DNA (5'-D(*CP*A)-3')

Chain 0:



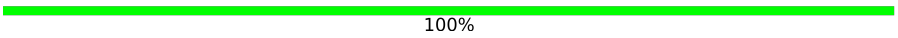
There are no outlier residues recorded for this chain.

• Molecule 2: DNA (5'-D(*CP*A)-3')

Chain 9: 

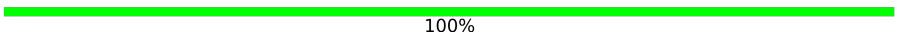
There are no outlier residues recorded for this chain.

• Molecule 2: DNA (5'-D(*CP*A)-3')

Chain AA: 

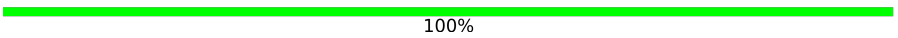
There are no outlier residues recorded for this chain.

• Molecule 2: DNA (5'-D(*CP*A)-3')

Chain BA: 

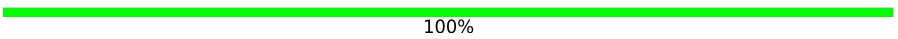
There are no outlier residues recorded for this chain.

• Molecule 2: DNA (5'-D(*CP*A)-3')

Chain CA: 

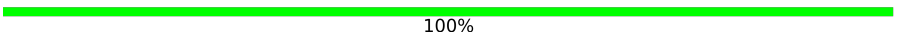
There are no outlier residues recorded for this chain.

• Molecule 2: DNA (5'-D(*CP*A)-3')

Chain DA: 

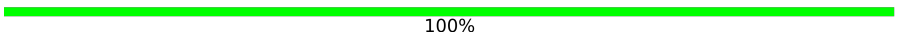
There are no outlier residues recorded for this chain.

• Molecule 2: DNA (5'-D(*CP*A)-3')

Chain EA: 

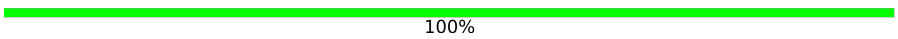
There are no outlier residues recorded for this chain.

• Molecule 2: DNA (5'-D(*CP*A)-3')

Chain FA: 

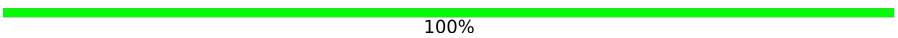
There are no outlier residues recorded for this chain.

• Molecule 2: DNA (5'-D(*CP*A)-3')

Chain GA: 

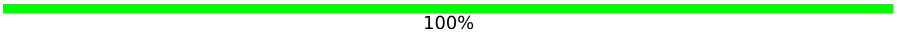
There are no outlier residues recorded for this chain.

• Molecule 2: DNA (5'-D(*CP*A)-3')

Chain HA: 

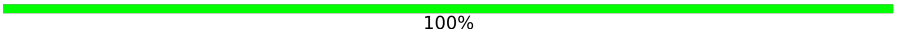
There are no outlier residues recorded for this chain.

• Molecule 2: DNA (5'-D(*CP*A)-3')

Chain IA: 

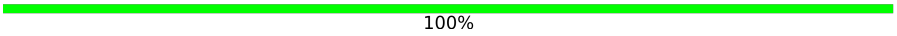
There are no outlier residues recorded for this chain.

• Molecule 2: DNA (5'-D(*CP*A)-3')

Chain JA: 

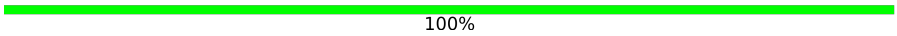
There are no outlier residues recorded for this chain.

• Molecule 2: DNA (5'-D(*CP*A)-3')

Chain KA: 

There are no outlier residues recorded for this chain.

• Molecule 2: DNA (5'-D(*CP*A)-3')

Chain LA: 

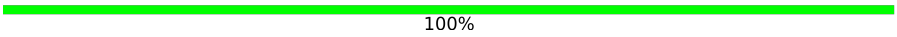
There are no outlier residues recorded for this chain.

• Molecule 2: DNA (5'-D(*CP*A)-3')

Chain MA:

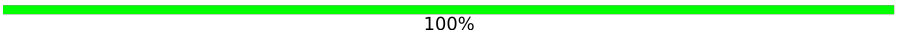
There are no outlier residues recorded for this chain.

• Molecule 2: DNA (5'-D(*CP*A)-3')

Chain NA: 

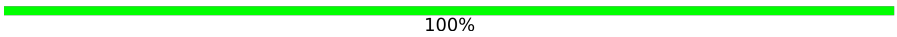
There are no outlier residues recorded for this chain.

• Molecule 2: DNA (5'-D(*CP*A)-3')

Chain OA: 

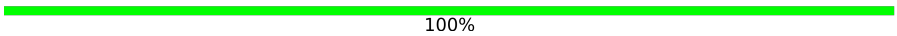
There are no outlier residues recorded for this chain.

• Molecule 2: DNA (5'-D(*CP*A)-3')

Chain PA: 

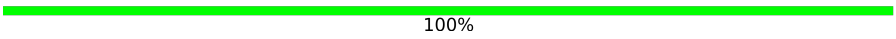
There are no outlier residues recorded for this chain.

• Molecule 2: DNA (5'-D(*CP*A)-3')

Chain QA: 

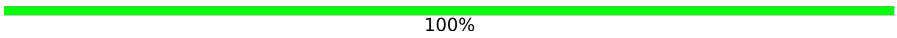
There are no outlier residues recorded for this chain.

• Molecule 2: DNA (5'-D(*CP*A)-3')

Chain RA: 

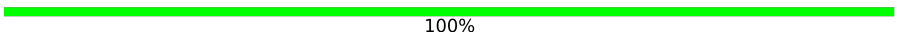
There are no outlier residues recorded for this chain.

• Molecule 2: DNA (5'-D(*CP*A)-3')

Chain SA: 

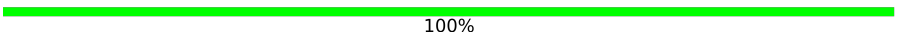
There are no outlier residues recorded for this chain.

• Molecule 2: DNA (5'-D(*CP*A)-3')

Chain TA: 

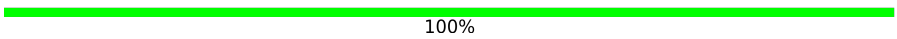
There are no outlier residues recorded for this chain.

• Molecule 2: DNA (5'-D(*CP*A)-3')

Chain UA: 

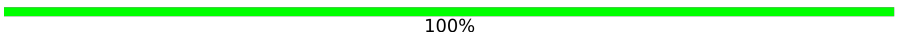
There are no outlier residues recorded for this chain.

• Molecule 2: DNA (5'-D(*CP*A)-3')

Chain VA: 

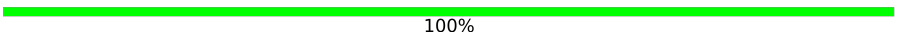
There are no outlier residues recorded for this chain.

• Molecule 2: DNA (5'-D(*CP*A)-3')

Chain WA: 

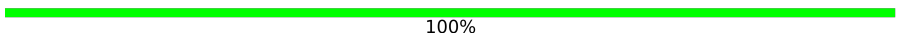
There are no outlier residues recorded for this chain.

• Molecule 2: DNA (5'-D(*CP*A)-3')

Chain XA: 

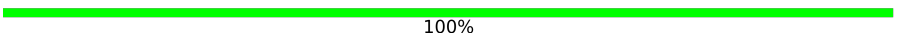
There are no outlier residues recorded for this chain.

• Molecule 2: DNA (5'-D(*CP*A)-3')

Chain YA: 

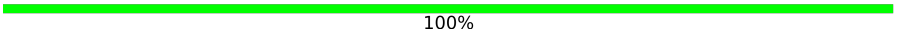
There are no outlier residues recorded for this chain.

• Molecule 2: DNA (5'-D(*CP*A)-3')

Chain ZA: 

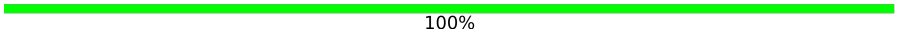
There are no outlier residues recorded for this chain.

• Molecule 2: DNA (5'-D(*CP*A)-3')

Chain aA: 

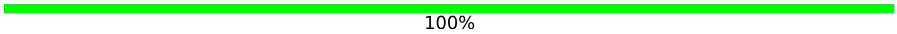
There are no outlier residues recorded for this chain.

• Molecule 2: DNA (5'-D(*CP*A)-3')

Chain bA: 

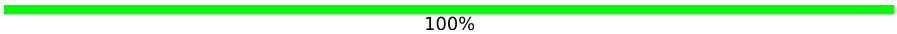
There are no outlier residues recorded for this chain.

• Molecule 2: DNA (5'-D(*CP*A)-3')

Chain cA: 

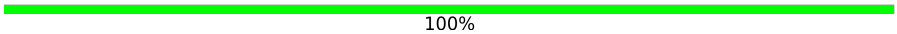
There are no outlier residues recorded for this chain.

• Molecule 2: DNA (5'-D(*CP*A)-3')

Chain dA: 

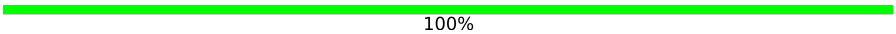
There are no outlier residues recorded for this chain.

• Molecule 2: DNA (5'-D(*CP*A)-3')

Chain eA: 

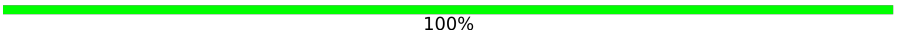
There are no outlier residues recorded for this chain.

• Molecule 2: DNA (5'-D(*CP*A)-3')

Chain fA: 

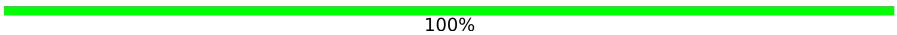
There are no outlier residues recorded for this chain.

• Molecule 2: DNA (5'-D(*CP*A)-3')

Chain gA: 

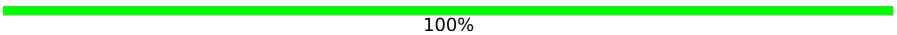
There are no outlier residues recorded for this chain.

• Molecule 2: DNA (5'-D(*CP*A)-3')

Chain hA: 

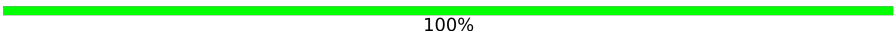
There are no outlier residues recorded for this chain.

• Molecule 2: DNA (5'-D(*CP*A)-3')

Chain iA: 

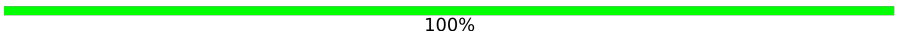
There are no outlier residues recorded for this chain.

• Molecule 2: DNA (5'-D(*CP*A)-3')

Chain jA: 

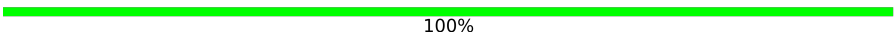
There are no outlier residues recorded for this chain.

• Molecule 2: DNA (5'-D(*CP*A)-3')

Chain kA: 

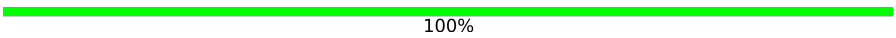
There are no outlier residues recorded for this chain.

• Molecule 2: DNA (5'-D(*CP*A)-3')

Chain lA: 

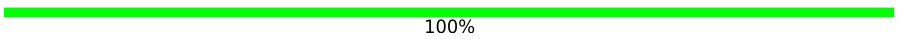
There are no outlier residues recorded for this chain.

• Molecule 2: DNA (5'-D(*CP*A)-3')

Chain mA: 

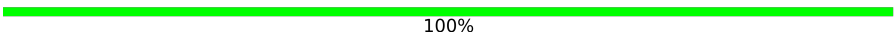
There are no outlier residues recorded for this chain.

• Molecule 2: DNA (5'-D(*CP*A)-3')

Chain nA: 

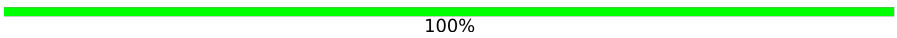
There are no outlier residues recorded for this chain.

• Molecule 2: DNA (5'-D(*CP*A)-3')

Chain oA: 

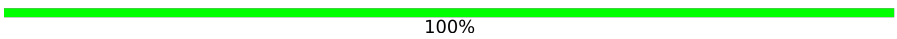
There are no outlier residues recorded for this chain.

• Molecule 2: DNA (5'-D(*CP*A)-3')

Chain pA: 

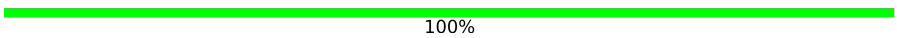
There are no outlier residues recorded for this chain.

• Molecule 2: DNA (5'-D(*CP*A)-3')

Chain qA: 

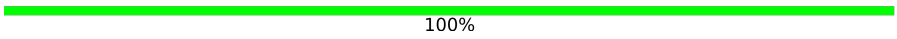
There are no outlier residues recorded for this chain.

• Molecule 2: DNA (5'-D(*CP*A)-3')

Chain rA: 

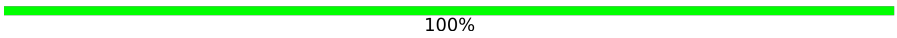
There are no outlier residues recorded for this chain.

• Molecule 2: DNA (5'-D(*CP*A)-3')

Chain sA: 

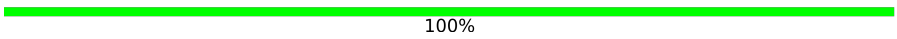
There are no outlier residues recorded for this chain.

• Molecule 2: DNA (5'-D(*CP*A)-3')

Chain tA: 

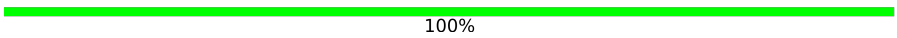
There are no outlier residues recorded for this chain.

• Molecule 2: DNA (5'-D(*CP*A)-3')

Chain uA: 

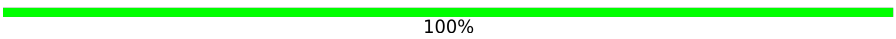
There are no outlier residues recorded for this chain.

• Molecule 2: DNA (5'-D(*CP*A)-3')

Chain vA: 

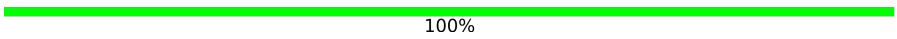
There are no outlier residues recorded for this chain.

• Molecule 2: DNA (5'-D(*CP*A)-3')

Chain wA: 

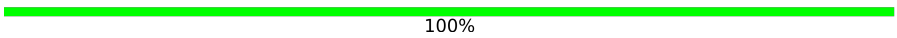
There are no outlier residues recorded for this chain.

• Molecule 2: DNA (5'-D(*CP*A)-3')

Chain xA: 

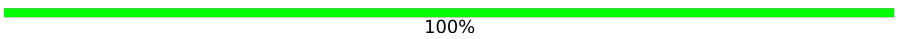
There are no outlier residues recorded for this chain.

• Molecule 2: DNA (5'-D(*CP*A)-3')

Chain yA: 

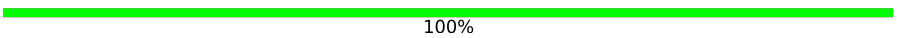
There are no outlier residues recorded for this chain.

• Molecule 2: DNA (5'-D(*CP*A)-3')

Chain zA: 

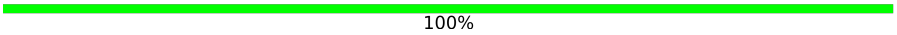
There are no outlier residues recorded for this chain.

• Molecule 2: DNA (5'-D(*CP*A)-3')

Chain 0A: 

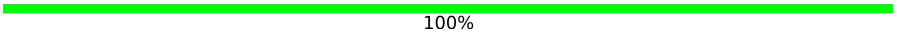
There are no outlier residues recorded for this chain.

• Molecule 2: DNA (5'-D(*CP*A)-3')

Chain 1A: 

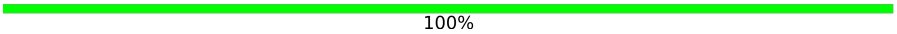
There are no outlier residues recorded for this chain.

• Molecule 2: DNA (5'-D(*CP*A)-3')

Chain 2A: 

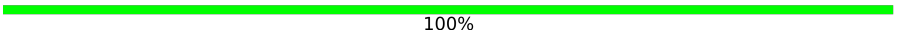
There are no outlier residues recorded for this chain.

• Molecule 2: DNA (5'-D(*CP*A)-3')

Chain 3A: 

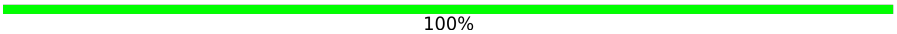
There are no outlier residues recorded for this chain.

• Molecule 2: DNA (5'-D(*CP*A)-3')

Chain 4A: 

There are no outlier residues recorded for this chain.

• Molecule 2: DNA (5'-D(*CP*A)-3')

Chain 5A: 

There are no outlier residues recorded for this chain.

4 Experimental information (i)

Property	Value	Source
EM reconstruction method	SINGLE PARTICLE	Depositor
Imposed symmetry	POINT, I	Depositor
Number of particles used	1326	Depositor
Resolution determination method	FSC 0.143 CUT-OFF	Depositor
CTF correction method	PHASE FLIPPING AND AMPLITUDE CORRECTION	Depositor
Microscope	FEI TITAN KRIOS	Depositor
Voltage (kV)	300	Depositor
Electron dose ($e^-/Å^2$)	67	Depositor
Minimum defocus (nm)	Not provided	
Maximum defocus (nm)	Not provided	
Magnification	Not provided	
Image detector	DIRECT ELECTRON DE-20 (5k x 3k)	Depositor
Maximum map value	15.678	Depositor
Minimum map value	-9.076	Depositor
Average map value	0.000	Depositor
Map value standard deviation	1.000	Depositor
Recommended contour level	1	Depositor
Map size (Å)	384.237, 384.237, 384.237	wwPDB
Map dimensions	399, 399, 399	wwPDB
Map angles (°)	90.0, 90.0, 90.0	wwPDB
Pixel spacing (Å)	0.963, 0.963, 0.963	Depositor

5 Model quality

5.1 Standard geometry

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

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	$\#\|Z\| > 5$	RMSZ	$\#\|Z\| > 5$
1	1	0.50	0/4272	0.54	0/5826
1	2	0.50	0/4272	0.54	0/5826
1	3	0.50	0/4272	0.54	0/5826
1	4	0.50	0/4272	0.54	0/5826
1	5	0.50	0/4272	0.54	0/5826
1	6	0.50	0/4272	0.54	0/5826
1	7	0.50	0/4272	0.54	0/5826
1	8	0.50	0/4272	0.54	0/5826
1	A	0.50	0/4272	0.54	0/5826
1	B	0.50	0/4272	0.54	0/5826
1	C	0.50	0/4272	0.54	0/5826
1	D	0.50	0/4272	0.54	0/5826
1	E	0.50	0/4272	0.54	0/5826
1	F	0.50	0/4272	0.54	0/5826
1	G	0.50	0/4272	0.54	0/5826
1	H	0.50	0/4272	0.54	0/5826
1	I	0.50	0/4272	0.54	0/5826
1	J	0.50	0/4272	0.54	0/5826
1	K	0.50	0/4272	0.54	0/5826
1	L	0.50	0/4272	0.54	0/5826
1	M	0.50	0/4272	0.54	0/5826
1	N	0.50	0/4272	0.54	0/5826
1	O	0.50	0/4272	0.54	0/5826
1	P	0.50	0/4272	0.54	0/5826
1	Q	0.50	0/4272	0.54	0/5826
1	R	0.50	0/4272	0.54	0/5826
1	S	0.50	0/4272	0.54	0/5826
1	T	0.50	0/4272	0.54	0/5826
1	U	0.50	0/4272	0.54	0/5826
1	V	0.50	0/4272	0.54	0/5826
1	W	0.50	0/4272	0.54	0/5826
1	X	0.50	0/4272	0.54	0/5826
1	Y	0.50	0/4272	0.54	0/5826
1	Z	0.50	0/4272	0.54	0/5826

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	$\#\|Z\| > 5$	RMSZ	$\#\|Z\| > 5$
1	a	0.50	0/4272	0.54	0/5826
1	b	0.50	0/4272	0.54	0/5826
1	c	0.50	0/4272	0.54	0/5826
1	d	0.50	0/4272	0.54	0/5826
1	e	0.50	0/4272	0.54	0/5826
1	f	0.50	0/4272	0.54	0/5826
1	g	0.50	0/4272	0.54	0/5826
1	h	0.50	0/4272	0.54	0/5826
1	i	0.50	0/4272	0.54	0/5826
1	j	0.50	0/4272	0.54	0/5826
1	k	0.50	0/4272	0.54	0/5826
1	l	0.50	0/4272	0.54	0/5826
1	m	0.50	0/4272	0.54	0/5826
1	n	0.50	0/4272	0.54	0/5826
1	o	0.50	0/4272	0.54	0/5826
1	p	0.50	0/4272	0.54	0/5826
1	q	0.50	0/4272	0.54	0/5826
1	r	0.50	0/4272	0.54	0/5826
1	s	0.50	0/4272	0.54	0/5826
1	t	0.50	0/4272	0.54	0/5826
1	u	0.50	0/4272	0.54	0/5826
1	v	0.50	0/4272	0.54	0/5826
1	w	0.50	0/4272	0.54	0/5826
1	x	0.50	0/4272	0.54	0/5826
1	y	0.50	0/4272	0.54	0/5826
1	z	0.50	0/4272	0.54	0/5826
2	0	0.24	0/41	0.36	0/61
2	0A	0.24	0/41	0.36	0/61
2	1A	0.24	0/41	0.36	0/61
2	2A	0.24	0/41	0.36	0/61
2	3A	0.24	0/41	0.36	0/61
2	4A	0.24	0/41	0.36	0/61
2	5A	0.23	0/41	0.36	0/61
2	9	0.24	0/41	0.36	0/61
2	AA	0.23	0/41	0.36	0/61
2	BA	0.24	0/41	0.36	0/61
2	CA	0.23	0/41	0.36	0/61
2	DA	0.24	0/41	0.36	0/61
2	EA	0.24	0/41	0.36	0/61
2	FA	0.24	0/41	0.36	0/61
2	GA	0.24	0/41	0.36	0/61
2	HA	0.24	0/41	0.36	0/61
2	IA	0.24	0/41	0.36	0/61

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	$\#\|Z\| > 5$	RMSZ	$\#\|Z\| > 5$
2	JA	0.23	0/41	0.36	0/61
2	KA	0.23	0/41	0.36	0/61
2	LA	0.24	0/41	0.36	0/61
2	MA	0.24	0/41	0.36	0/61
2	NA	0.23	0/41	0.36	0/61
2	OA	0.24	0/41	0.36	0/61
2	PA	0.23	0/41	0.36	0/61
2	QA	0.24	0/41	0.36	0/61
2	RA	0.24	0/41	0.36	0/61
2	SA	0.24	0/41	0.36	0/61
2	TA	0.24	0/41	0.36	0/61
2	UA	0.24	0/41	0.36	0/61
2	VA	0.23	0/41	0.36	0/61
2	WA	0.24	0/41	0.36	0/61
2	XA	0.24	0/41	0.36	0/61
2	YA	0.24	0/41	0.36	0/61
2	ZA	0.23	0/41	0.36	0/61
2	aA	0.24	0/41	0.36	0/61
2	bA	0.24	0/41	0.36	0/61
2	cA	0.24	0/41	0.36	0/61
2	dA	0.24	0/41	0.36	0/61
2	eA	0.24	0/41	0.36	0/61
2	fA	0.24	0/41	0.36	0/61
2	gA	0.23	0/41	0.36	0/61
2	hA	0.24	0/41	0.36	0/61
2	iA	0.24	0/41	0.36	0/61
2	jA	0.24	0/41	0.36	0/61
2	kA	0.23	0/41	0.36	0/61
2	lA	0.24	0/41	0.36	0/61
2	mA	0.24	0/41	0.36	0/61
2	nA	0.24	0/41	0.36	0/61
2	oA	0.24	0/41	0.36	0/61
2	pA	0.23	0/41	0.36	0/61
2	qA	0.24	0/41	0.36	0/61
2	rA	0.24	0/41	0.36	0/61
2	sA	0.24	0/41	0.36	0/61
2	tA	0.24	0/41	0.36	0/61
2	uA	0.24	0/41	0.36	0/61
2	vA	0.24	0/41	0.36	0/61
2	wA	0.24	0/41	0.36	0/61
2	xA	0.24	0/41	0.36	0/61
2	yA	0.24	0/41	0.36	0/61
2	zA	0.23	0/41	0.36	0/61

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	$\#\|Z\|>5$	RMSZ	$\#\|Z\|>5$
All	All	0.50	0/258780	0.54	0/353220

There are no bond length outliers.

There are no bond angle outliers.

There are no chirality outliers.

There are no planarity outliers.

5.2 Too-close contacts (i)

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

Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	1	4145	0	3907	182	0
1	2	4145	0	3907	180	0
1	3	4145	0	3907	183	0
1	4	4145	0	3907	185	0
1	5	4145	0	3907	183	0
1	6	4145	0	3907	183	0
1	7	4145	0	3907	180	0
1	8	4145	0	3907	185	0
1	A	4145	0	3907	182	0
1	B	4145	0	3907	185	0
1	C	4145	0	3907	181	0
1	D	4145	0	3907	181	0
1	E	4145	0	3907	181	0
1	F	4145	0	3907	183	0
1	G	4145	0	3907	183	0
1	H	4145	0	3907	188	0
1	I	4145	0	3907	185	0
1	J	4145	0	3907	185	0
1	K	4145	0	3907	181	0
1	L	4145	0	3907	179	0
1	M	4145	0	3907	183	0
1	N	4145	0	3907	184	0
1	O	4145	0	3907	183	0
1	P	4145	0	3907	183	0
1	Q	4145	0	3907	181	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	R	4145	0	3907	183	0
1	S	4145	0	3907	184	0
1	T	4145	0	3907	183	0
1	U	4145	0	3907	184	0
1	V	4145	0	3907	187	0
1	W	4145	0	3907	181	0
1	X	4145	0	3907	186	0
1	Y	4145	0	3907	185	0
1	Z	4145	0	3907	185	0
1	a	4145	0	3907	186	0
1	b	4145	0	3907	186	0
1	c	4145	0	3907	185	0
1	d	4145	0	3907	181	0
1	e	4145	0	3907	187	0
1	f	4145	0	3907	184	0
1	g	4145	0	3907	184	0
1	h	4145	0	3907	185	0
1	i	4145	0	3907	186	0
1	j	4145	0	3907	184	0
1	k	4145	0	3907	185	0
1	l	4145	0	3907	186	0
1	m	4145	0	3907	184	0
1	n	4145	0	3907	183	0
1	o	4145	0	3907	183	0
1	p	4145	0	3907	183	0
1	q	4145	0	3907	184	0
1	r	4145	0	3907	182	0
1	s	4145	0	3907	186	0
1	t	4145	0	3907	184	0
1	u	4145	0	3907	182	0
1	v	4145	0	3907	187	0
1	w	4145	0	3907	185	0
1	x	4145	0	3907	184	0
1	y	4145	0	3907	186	0
1	z	4145	0	3907	186	0
2	0	37	0	24	0	0
2	0A	37	0	24	0	0
2	1A	37	0	24	0	0
2	2A	37	0	24	0	0
2	3A	37	0	24	0	0
2	4A	37	0	24	0	0
2	5A	37	0	24	0	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
2	9	37	0	24	0	0
2	AA	37	0	24	0	0
2	BA	37	0	24	0	0
2	CA	37	0	24	0	0
2	DA	37	0	24	0	0
2	EA	37	0	24	0	0
2	FA	37	0	24	0	0
2	GA	37	0	24	0	0
2	HA	37	0	24	0	0
2	IA	37	0	24	0	0
2	JA	37	0	24	0	0
2	KA	37	0	24	0	0
2	LA	37	0	24	0	0
2	MA	37	0	24	0	0
2	NA	37	0	24	0	0
2	OA	37	0	24	0	0
2	PA	37	0	24	0	0
2	QA	37	0	24	0	0
2	RA	37	0	24	0	0
2	SA	37	0	24	0	0
2	TA	37	0	24	0	0
2	UA	37	0	24	0	0
2	VA	37	0	24	0	0
2	WA	37	0	24	0	0
2	XA	37	0	24	0	0
2	YA	37	0	24	0	0
2	ZA	37	0	24	0	0
2	aA	37	0	24	0	0
2	bA	37	0	24	0	0
2	cA	37	0	24	0	0
2	dA	37	0	24	0	0
2	eA	37	0	24	0	0
2	fA	37	0	24	0	0
2	gA	37	0	24	0	0
2	hA	37	0	24	0	0
2	iA	37	0	24	0	0
2	jA	37	0	24	0	0
2	kA	37	0	24	0	0
2	lA	37	0	24	0	0
2	mA	37	0	24	0	0
2	nA	37	0	24	0	0
2	oA	37	0	24	0	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
2	pA	37	0	24	0	0
2	qA	37	0	24	0	0
2	rA	37	0	24	0	0
2	sA	37	0	24	0	0
2	tA	37	0	24	0	0
2	uA	37	0	24	0	0
2	vA	37	0	24	0	0
2	wA	37	0	24	0	0
2	xA	37	0	24	0	0
2	yA	37	0	24	0	0
2	zA	37	0	24	0	0
All	All	250920	0	235860	8847	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 18.

All (8847) 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:251:PRO:HG3	1:U:374:MET:HE3	1.56	0.88
1:A:251:PRO:HG3	1:A:374:MET:HE3	1.56	0.88
1:k:251:PRO:HG3	1:k:374:MET:HE3	1.56	0.88
1:v:251:PRO:HG3	1:v:374:MET:HE3	1.56	0.88
1:D:251:PRO:HG3	1:D:374:MET:HE3	1.56	0.88
1:O:251:PRO:HG3	1:O:374:MET:HE3	1.56	0.88
1:o:251:PRO:HG3	1:o:374:MET:HE3	1.56	0.88
1:K:251:PRO:HG3	1:K:374:MET:HE3	1.56	0.88
1:h:251:PRO:HG3	1:h:374:MET:HE3	1.56	0.88
1:C:251:PRO:HG3	1:C:374:MET:HE3	1.56	0.88
1:L:251:PRO:HG3	1:L:374:MET:HE3	1.56	0.88
1:d:251:PRO:HG3	1:d:374:MET:HE3	1.56	0.88
1:p:251:PRO:HG3	1:p:374:MET:HE3	1.56	0.88
1:3:251:PRO:HG3	1:3:374:MET:HE3	1.56	0.88
1:G:251:PRO:HG3	1:G:374:MET:HE3	1.56	0.88
1:W:251:PRO:HG3	1:W:374:MET:HE3	1.56	0.88
1:u:251:PRO:HG3	1:u:374:MET:HE3	1.56	0.88
1:8:251:PRO:HG3	1:8:374:MET:HE3	1.56	0.88
1:S:251:PRO:HG3	1:S:374:MET:HE3	1.56	0.87
1:q:251:PRO:HG3	1:q:374:MET:HE3	1.56	0.87
1:2:251:PRO:HG3	1:2:374:MET:HE3	1.56	0.87
1:P:251:PRO:HG3	1:P:374:MET:HE3	1.56	0.87

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:x:251:PRO:HG3	1:x:374:MET:HE3	1.56	0.87
1:X:251:PRO:HG3	1:X:374:MET:HE3	1.56	0.87
1:N:251:PRO:HG3	1:N:374:MET:HE3	1.56	0.86
1:a:251:PRO:HG3	1:a:374:MET:HE3	1.56	0.86
1:4:251:PRO:HG3	1:4:374:MET:HE3	1.56	0.86
1:w:251:PRO:HG3	1:w:374:MET:HE3	1.56	0.86
1:T:251:PRO:HG3	1:T:374:MET:HE3	1.56	0.86
1:Z:251:PRO:HG3	1:Z:374:MET:HE3	1.56	0.86
1:m:251:PRO:HG3	1:m:374:MET:HE3	1.56	0.86
1:1:251:PRO:HG3	1:1:374:MET:HE3	1.56	0.86
1:n:251:PRO:HG3	1:n:374:MET:HE3	1.56	0.86
1:7:251:PRO:HG3	1:7:374:MET:HE3	1.56	0.86
1:E:251:PRO:HG3	1:E:374:MET:HE3	1.56	0.86
1:e:251:PRO:HG3	1:e:374:MET:HE3	1.56	0.86
1:J:251:PRO:HG3	1:J:374:MET:HE3	1.56	0.86
1:I:526:MET:HE2	1:I:575:ALA:HA	1.58	0.86
1:V:251:PRO:HG3	1:V:374:MET:HE3	1.56	0.86
1:i:251:PRO:HG3	1:i:374:MET:HE3	1.56	0.86
1:y:251:PRO:HG3	1:y:374:MET:HE3	1.56	0.86
1:c:526:MET:HE2	1:c:575:ALA:HA	1.58	0.86
1:f:251:PRO:HG3	1:f:374:MET:HE3	1.56	0.86
1:n:526:MET:HE2	1:n:575:ALA:HA	1.58	0.86
1:v:526:MET:HE2	1:v:575:ALA:HA	1.58	0.86
1:4:526:MET:HE2	1:4:575:ALA:HA	1.58	0.86
1:C:526:MET:HE2	1:C:575:ALA:HA	1.58	0.86
1:I:251:PRO:HG3	1:I:374:MET:HE3	1.56	0.86
1:L:526:MET:HE2	1:L:575:ALA:HA	1.58	0.86
1:R:251:PRO:HG3	1:R:374:MET:HE3	1.56	0.86
1:V:526:MET:HE2	1:V:575:ALA:HA	1.58	0.86
1:c:251:PRO:HG3	1:c:374:MET:HE3	1.56	0.86
1:g:251:PRO:HG3	1:g:374:MET:HE3	1.56	0.86
1:y:526:MET:HE2	1:y:575:ALA:HA	1.58	0.86
1:M:251:PRO:HG3	1:M:374:MET:HE3	1.56	0.85
1:U:526:MET:HE2	1:U:575:ALA:HA	1.58	0.85
1:j:251:PRO:HG3	1:j:374:MET:HE3	1.56	0.85
1:i:526:MET:HE2	1:i:575:ALA:HA	1.58	0.85
1:t:251:PRO:HG3	1:t:374:MET:HE3	1.56	0.85
1:F:251:PRO:HG3	1:F:374:MET:HE3	1.56	0.85
1:H:526:MET:HE2	1:H:575:ALA:HA	1.58	0.85
1:l:526:MET:HE2	1:l:575:ALA:HA	1.58	0.85
1:A:526:MET:HE2	1:A:575:ALA:HA	1.58	0.85

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:251:PRO:HG3	1:H:374:MET:HE3	1.56	0.85
1:N:526:MET:HE2	1:N:575:ALA:HA	1.58	0.85
1:g:526:MET:HE2	1:g:575:ALA:HA	1.58	0.85
1:o:526:MET:HE2	1:o:575:ALA:HA	1.58	0.85
1:s:251:PRO:HG3	1:s:374:MET:HE3	1.56	0.85
1:s:526:MET:HE2	1:s:575:ALA:HA	1.58	0.85
1:z:526:MET:HE2	1:z:575:ALA:HA	1.58	0.85
1:6:251:PRO:HG3	1:6:374:MET:HE3	1.56	0.85
1:X:526:MET:HE2	1:X:575:ALA:HA	1.58	0.85
1:a:526:MET:HE2	1:a:575:ALA:HA	1.58	0.85
1:R:526:MET:HE2	1:R:575:ALA:HA	1.58	0.85
1:q:526:MET:HE2	1:q:575:ALA:HA	1.58	0.85
1:x:526:MET:HE2	1:x:575:ALA:HA	1.58	0.85
1:h:526:MET:HE2	1:h:575:ALA:HA	1.58	0.85
1:m:526:MET:HE2	1:m:575:ALA:HA	1.58	0.85
1:r:251:PRO:HG3	1:r:374:MET:HE3	1.56	0.85
1:7:526:MET:HE2	1:7:575:ALA:HA	1.58	0.85
1:W:526:MET:HE2	1:W:575:ALA:HA	1.58	0.85
1:t:526:MET:HE2	1:t:575:ALA:HA	1.58	0.85
1:5:251:PRO:HG3	1:5:374:MET:HE3	1.56	0.85
1:E:526:MET:HE2	1:E:575:ALA:HA	1.58	0.84
1:k:526:MET:HE2	1:k:575:ALA:HA	1.58	0.84
1:Y:251:PRO:HG3	1:Y:374:MET:HE3	1.56	0.84
1:f:526:MET:HE2	1:f:575:ALA:HA	1.58	0.84
1:Z:526:MET:HE2	1:Z:575:ALA:HA	1.58	0.84
1:z:251:PRO:HG3	1:z:374:MET:HE3	1.56	0.84
1:Q:251:PRO:HG3	1:Q:374:MET:HE3	1.56	0.84
1:j:526:MET:HE2	1:j:575:ALA:HA	1.58	0.84
1:B:251:PRO:HG3	1:B:374:MET:HE3	1.56	0.84
1:l:251:PRO:HG3	1:l:374:MET:HE3	1.56	0.84
1:b:251:PRO:HG3	1:b:374:MET:HE3	1.56	0.84
1:6:526:MET:HE2	1:6:575:ALA:HA	1.58	0.84
1:F:526:MET:HE2	1:F:575:ALA:HA	1.58	0.84
1:G:526:MET:HE2	1:G:575:ALA:HA	1.58	0.84
1:p:526:MET:HE2	1:p:575:ALA:HA	1.58	0.84
1:d:526:MET:HE2	1:d:575:ALA:HA	1.58	0.84
1:2:526:MET:HE2	1:2:575:ALA:HA	1.58	0.83
1:S:526:MET:HE2	1:S:575:ALA:HA	1.58	0.83
1:e:526:MET:HE2	1:e:575:ALA:HA	1.58	0.83
1:u:526:MET:HE2	1:u:575:ALA:HA	1.59	0.83
1:w:526:MET:HE2	1:w:575:ALA:HA	1.58	0.83

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:526:MET:HE2	1:D:575:ALA:HA	1.58	0.83
1:K:526:MET:HE2	1:K:575:ALA:HA	1.58	0.83
1:J:328:GLN:HE22	1:J:333:LYS:HG3	1.44	0.83
1:P:526:MET:HE2	1:P:575:ALA:HA	1.58	0.83
1:5:526:MET:HE2	1:5:575:ALA:HA	1.58	0.83
1:8:526:MET:HE2	1:8:575:ALA:HA	1.58	0.83
1:M:328:GLN:HE22	1:M:333:LYS:HG3	1.44	0.83
1:T:328:GLN:HE22	1:T:333:LYS:HG3	1.44	0.83
1:1:328:GLN:HE22	1:1:333:LYS:HG3	1.44	0.83
1:H:328:GLN:HE22	1:H:333:LYS:HG3	1.44	0.82
1:O:526:MET:HE2	1:O:575:ALA:HA	1.58	0.82
1:Q:526:MET:HE2	1:Q:575:ALA:HA	1.58	0.82
1:T:526:MET:HE2	1:T:575:ALA:HA	1.58	0.82
1:Y:526:MET:HE2	1:Y:575:ALA:HA	1.58	0.82
1:r:526:MET:HE2	1:r:575:ALA:HA	1.58	0.82
1:3:526:MET:HE2	1:3:575:ALA:HA	1.58	0.82
1:D:328:GLN:HE22	1:D:333:LYS:HG3	1.44	0.82
1:K:328:GLN:HE22	1:K:333:LYS:HG3	1.44	0.82
1:O:328:GLN:HE22	1:O:333:LYS:HG3	1.44	0.82
1:g:328:GLN:HE22	1:g:333:LYS:HG3	1.44	0.82
1:n:328:GLN:HE22	1:n:333:LYS:HG3	1.44	0.82
1:1:526:MET:HE2	1:1:575:ALA:HA	1.58	0.82
1:4:328:GLN:HE22	1:4:333:LYS:HG3	1.44	0.82
1:s:328:GLN:HE22	1:s:333:LYS:HG3	1.44	0.82
1:3:328:GLN:HE22	1:3:333:LYS:HG3	1.44	0.82
1:C:328:GLN:HE22	1:C:333:LYS:HG3	1.44	0.82
1:M:526:MET:HE2	1:M:575:ALA:HA	1.58	0.82
1:b:526:MET:HE2	1:b:575:ALA:HA	1.58	0.82
1:i:328:GLN:HE22	1:i:333:LYS:HG3	1.44	0.82
1:2:225:SER:HB3	1:3:407:ARG:HG3	1.61	0.82
1:B:526:MET:HE2	1:B:575:ALA:HA	1.58	0.82
1:J:526:MET:HE2	1:J:575:ALA:HA	1.58	0.82
1:L:328:GLN:HE22	1:L:333:LYS:HG3	1.44	0.82
1:R:328:GLN:HE22	1:R:333:LYS:HG3	1.44	0.82
1:z:328:GLN:HE22	1:z:333:LYS:HG3	1.44	0.82
1:k:328:GLN:HE22	1:k:333:LYS:HG3	1.44	0.82
1:l:328:GLN:HE22	1:l:333:LYS:HG3	1.44	0.82
1:2:225:SER:HA	1:3:407:ARG:HD2	1.61	0.82
1:t:328:GLN:HE22	1:t:333:LYS:HG3	1.44	0.82
1:6:328:GLN:HE22	1:6:333:LYS:HG3	1.44	0.82
1:G:225:SER:HB3	1:W:407:ARG:HG3	1.61	0.82

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Y:328:GLN:HE22	1:Y:333:LYS:HG3	1.44	0.82
1:h:328:GLN:HE22	1:h:333:LYS:HG3	1.44	0.82
1:o:328:GLN:HE22	1:o:333:LYS:HG3	1.44	0.82
1:r:328:GLN:HE22	1:r:333:LYS:HG3	1.44	0.82
1:x:328:GLN:HE22	1:x:333:LYS:HG3	1.44	0.82
1:A:225:SER:HB3	1:E:407:ARG:HG3	1.61	0.82
1:F:328:GLN:HE22	1:F:333:LYS:HG3	1.44	0.82
1:U:225:SER:HB3	1:e:407:ARG:HG3	1.62	0.82
1:X:328:GLN:HE22	1:X:333:LYS:HG3	1.44	0.82
1:A:328:GLN:HE22	1:A:333:LYS:HG3	1.44	0.81
1:F:407:ARG:HG3	1:R:225:SER:HB3	1.62	0.81
1:P:328:GLN:HE22	1:P:333:LYS:HG3	1.44	0.81
1:t:225:SER:HB3	1:6:407:ARG:HG3	1.62	0.81
1:8:328:GLN:HE22	1:8:333:LYS:HG3	1.44	0.81
1:M:225:SER:HB3	1:N:407:ARG:HG3	1.62	0.81
1:g:407:ARG:HG3	1:k:225:SER:HB3	1.62	0.81
1:D:407:ARG:HG3	1:E:225:SER:HB3	1.63	0.81
1:G:225:SER:HA	1:W:407:ARG:HD2	1.61	0.81
1:J:225:SER:HB3	1:a:407:ARG:HG3	1.62	0.81
1:K:407:ARG:HG3	1:7:225:SER:HB3	1.62	0.81
1:f:328:GLN:HE22	1:f:333:LYS:HG3	1.44	0.81
1:j:407:ARG:HG3	1:l:225:SER:HB3	1.63	0.81
1:p:407:ARG:HD2	1:6:225:SER:HA	1.62	0.81
1:Y:225:SER:HB3	1:4:407:ARG:HG3	1.62	0.81
1:m:328:GLN:HE22	1:m:333:LYS:HG3	1.44	0.81
1:A:225:SER:HA	1:E:407:ARG:HD2	1.61	0.81
1:H:407:ARG:HG3	1:Z:225:SER:HB3	1.62	0.81
1:Z:328:GLN:HE22	1:Z:333:LYS:HG3	1.44	0.81
1:a:328:GLN:HE22	1:a:333:LYS:HG3	1.44	0.81
1:j:328:GLN:HE22	1:j:333:LYS:HG3	1.44	0.81
1:N:328:GLN:HE22	1:N:333:LYS:HG3	1.44	0.81
1:f:407:ARG:HG3	1:z:225:SER:HB3	1.63	0.81
1:m:225:SER:HB3	1:s:407:ARG:HG3	1.62	0.81
1:v:225:SER:HB3	1:w:407:ARG:HG3	1.63	0.81
1:5:328:GLN:HE22	1:5:333:LYS:HG3	1.44	0.81
1:V:328:GLN:HE22	1:V:333:LYS:HG3	1.44	0.81
1:v:328:GLN:HE22	1:v:333:LYS:HG3	1.44	0.81
1:C:407:ARG:HD2	1:D:225:SER:HA	1.63	0.81
1:K:225:SER:HA	1:L:407:ARG:HD2	1.63	0.81
1:Q:328:GLN:HE22	1:Q:333:LYS:HG3	1.44	0.81
1:V:407:ARG:HG3	1:W:225:SER:HB3	1.62	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:c:328:GLN:HE22	1:c:333:LYS:HG3	1.44	0.81
1:g:225:SER:HB3	1:1:407:ARG:HG3	1.62	0.81
1:h:225:SER:HB3	1:i:407:ARG:HG3	1.63	0.81
1:j:407:ARG:HD2	1:l:225:SER:HA	1.63	0.81
1:u:328:GLN:HE22	1:u:333:LYS:HG3	1.44	0.81
1:2:328:GLN:HE22	1:2:333:LYS:HG3	1.44	0.81
1:Y:225:SER:HA	1:4:407:ARG:HD2	1.63	0.81
1:g:407:ARG:HD2	1:k:225:SER:HA	1.62	0.81
1:l:407:ARG:HG3	1:n:225:SER:HB3	1.63	0.81
1:n:407:ARG:HG3	1:r:225:SER:HB3	1.63	0.81
1:y:328:GLN:HE22	1:y:333:LYS:HG3	1.44	0.81
1:O:407:ARG:HG3	1:d:225:SER:HB3	1.63	0.81
1:S:328:GLN:HE22	1:S:333:LYS:HG3	1.44	0.81
1:U:328:GLN:HE22	1:U:333:LYS:HG3	1.44	0.81
1:g:225:SER:HA	1:1:407:ARG:HD2	1.62	0.81
1:q:225:SER:HB3	1:y:407:ARG:HG3	1.62	0.81
1:q:328:GLN:HE22	1:q:333:LYS:HG3	1.44	0.81
1:t:225:SER:HA	1:6:407:ARG:HD2	1.62	0.81
1:B:407:ARG:HD2	1:C:225:SER:HA	1.63	0.80
1:H:407:ARG:HD2	1:Z:225:SER:HA	1.62	0.80
1:d:328:GLN:HE22	1:d:333:LYS:HG3	1.44	0.80
1:l:407:ARG:HD2	1:n:225:SER:HA	1.63	0.80
1:t:407:ARG:HG3	1:y:225:SER:HB3	1.63	0.80
1:3:225:SER:HA	1:8:407:ARG:HD2	1.63	0.80
1:n:407:ARG:HD2	1:r:225:SER:HA	1.63	0.80
1:p:225:SER:HB3	1:q:407:ARG:HG3	1.62	0.80
1:t:407:ARG:HD2	1:y:225:SER:HA	1.63	0.80
1:F:407:ARG:HD2	1:R:225:SER:HA	1.63	0.80
1:I:328:GLN:HE22	1:I:333:LYS:HG3	1.44	0.80
1:L:225:SER:HA	1:b:407:ARG:HD2	1.63	0.80
1:O:225:SER:HA	1:P:407:ARG:HD2	1.63	0.80
1:R:407:ARG:HD2	1:V:225:SER:HA	1.63	0.80
1:R:407:ARG:HG3	1:V:225:SER:HB3	1.63	0.80
1:T:407:ARG:HD2	1:i:225:SER:HA	1.63	0.80
1:T:407:ARG:HG3	1:i:225:SER:HB3	1.63	0.80
1:W:328:GLN:HE22	1:W:333:LYS:HG3	1.44	0.80
1:f:407:ARG:HD2	1:z:225:SER:HA	1.63	0.80
1:z:407:ARG:HG3	1:4:225:SER:HB3	1.63	0.80
1:F:225:SER:HA	1:G:407:ARG:HD2	1.63	0.80
1:O:407:ARG:HD2	1:d:225:SER:HA	1.63	0.80
1:u:225:SER:HA	1:2:407:ARG:HD2	1.62	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:z:407:ARG:HD2	1:4:225:SER:HA	1.63	0.80
1:V:407:ARG:HD2	1:W:225:SER:HA	1.63	0.80
1:e:328:GLN:HE22	1:e:333:LYS:HG3	1.44	0.80
1:h:225:SER:HA	1:i:407:ARG:HD2	1.63	0.80
1:m:225:SER:HA	1:s:407:ARG:HD2	1.63	0.80
1:o:225:SER:HB3	1:7:407:ARG:HG3	1.63	0.80
1:q:225:SER:HA	1:y:407:ARG:HD2	1.63	0.80
1:3:225:SER:HB3	1:8:407:ARG:HG3	1.62	0.80
1:K:407:ARG:HD2	1:7:225:SER:HA	1.62	0.80
1:w:328:GLN:HE22	1:w:333:LYS:HG3	1.44	0.80
1:C:407:ARG:HG3	1:D:225:SER:HB3	1.63	0.80
1:J:225:SER:HA	1:a:407:ARG:HD2	1.62	0.80
1:T:225:SER:HB3	1:U:407:ARG:HG3	1.63	0.80
1:e:225:SER:HA	1:h:407:ARG:HD2	1.63	0.80
1:u:225:SER:HB3	1:2:407:ARG:HG3	1.62	0.80
1:D:407:ARG:HD2	1:E:225:SER:HA	1.63	0.80
1:K:225:SER:HB3	1:L:407:ARG:HG3	1.63	0.80
1:N:225:SER:HB3	1:m:407:ARG:HG3	1.63	0.80
1:X:225:SER:HA	1:Y:407:ARG:HD2	1.63	0.80
1:X:225:SER:HB3	1:Y:407:ARG:HG3	1.62	0.80
1:o:225:SER:HA	1:7:407:ARG:HD2	1.63	0.80
1:p:225:SER:HA	1:q:407:ARG:HD2	1.63	0.80
1:v:407:ARG:HG3	1:1:225:SER:HB3	1.63	0.80
1:B:407:ARG:HG3	1:C:225:SER:HB3	1.63	0.80
1:G:328:GLN:HE22	1:G:333:LYS:HG3	1.44	0.80
1:I:225:SER:HB3	1:J:407:ARG:HG3	1.63	0.80
1:O:225:SER:HB3	1:P:407:ARG:HG3	1.63	0.80
1:X:407:ARG:HD2	1:f:225:SER:HA	1.63	0.80
1:b:328:GLN:HE22	1:b:333:LYS:HG3	1.44	0.80
1:L:225:SER:HB3	1:b:407:ARG:HG3	1.63	0.80
1:M:225:SER:HA	1:N:407:ARG:HD2	1.63	0.80
1:N:225:SER:HA	1:m:407:ARG:HD2	1.63	0.80
1:U:225:SER:HA	1:e:407:ARG:HD2	1.62	0.80
1:k:407:ARG:HD2	1:w:225:SER:HA	1.63	0.80
1:p:407:ARG:HG3	1:6:225:SER:HB3	1.62	0.80
1:Q:225:SER:HB3	1:S:407:ARG:HG3	1.62	0.79
1:j:225:SER:HA	1:x:407:ARG:HD2	1.62	0.79
1:7:328:GLN:HE22	1:7:333:LYS:HG3	1.44	0.79
1:B:328:GLN:HE22	1:B:333:LYS:HG3	1.44	0.79
1:I:225:SER:HA	1:J:407:ARG:HD2	1.63	0.79
1:M:407:ARG:HG3	1:c:225:SER:HB3	1.63	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:407:ARG:HD2	1:c:225:SER:HA	1.63	0.79
1:T:225:SER:HA	1:U:407:ARG:HD2	1.63	0.79
1:v:407:ARG:HD2	1:1:225:SER:HA	1.63	0.79
1:Z:407:ARG:HG3	1:a:225:SER:HB3	1.63	0.79
1:p:328:GLN:HE22	1:p:333:LYS:HG3	1.44	0.79
1:r:407:ARG:HD2	1:x:225:SER:HA	1.63	0.79
1:Z:407:ARG:HD2	1:a:225:SER:HA	1.63	0.79
1:r:407:ARG:HG3	1:x:225:SER:HB3	1.63	0.79
1:u:407:ARG:HG3	1:5:225:SER:HB3	1.63	0.79
1:1:431:GLN:HE22	1:2:354:PRO:HB3	1.48	0.79
1:E:328:GLN:HE22	1:E:333:LYS:HG3	1.44	0.79
1:v:225:SER:HA	1:w:407:ARG:HD2	1.63	0.79
1:F:225:SER:HB3	1:G:407:ARG:HG3	1.63	0.79
1:Q:225:SER:HA	1:S:407:ARG:HD2	1.62	0.79
1:b:225:SER:HA	1:o:407:ARG:HD2	1.63	0.79
1:H:225:SER:HA	1:I:407:ARG:HD2	1.63	0.79
1:P:225:SER:HB3	1:Q:407:ARG:HG3	1.63	0.79
1:S:225:SER:HB3	1:d:407:ARG:HG3	1.63	0.79
1:b:225:SER:HB3	1:o:407:ARG:HG3	1.63	0.79
1:S:225:SER:HA	1:d:407:ARG:HD2	1.63	0.79
1:c:407:ARG:HD2	1:s:225:SER:HA	1.63	0.79
1:j:225:SER:HB3	1:x:407:ARG:HG3	1.62	0.79
1:A:407:ARG:HD2	1:B:225:SER:HA	1.63	0.79
1:A:407:ARG:HG3	1:B:225:SER:HB3	1.63	0.79
1:5:407:ARG:HG3	1:8:225:SER:HB3	1.63	0.79
1:H:225:SER:HB3	1:I:407:ARG:HG3	1.63	0.78
1:X:407:ARG:HG3	1:f:225:SER:HB3	1.62	0.78
1:c:407:ARG:HG3	1:s:225:SER:HB3	1.63	0.78
1:f:354:PRO:HB3	1:g:431:GLN:HE22	1.48	0.78
1:t:431:GLN:HE22	1:u:354:PRO:HB3	1.48	0.78
1:P:225:SER:HA	1:Q:407:ARG:HD2	1.63	0.78
1:u:407:ARG:HD2	1:5:225:SER:HA	1.63	0.78
1:3:354:PRO:HB3	1:4:431:GLN:HE22	1.49	0.78
1:O:354:PRO:HB3	1:n:431:GLN:HE22	1.49	0.78
1:m:431:GLN:HE22	1:n:354:PRO:HB3	1.49	0.78
1:z:354:PRO:HB3	1:2:431:GLN:HE22	1.48	0.78
1:5:407:ARG:HD2	1:8:225:SER:HA	1.63	0.78
1:e:225:SER:HB3	1:h:407:ARG:HG3	1.63	0.78
1:o:431:GLN:HE22	1:p:354:PRO:HB3	1.48	0.78
1:o:610:GLN:HE21	1:p:627:THR:HG22	1.48	0.78
1:5:354:PRO:HB3	1:7:431:GLN:HE22	1.49	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:610:GLN:HE21	1:N:627:THR:HG22	1.49	0.78
1:E:431:GLN:HE22	1:Q:354:PRO:HB3	1.49	0.78
1:R:431:GLN:HE22	1:S:354:PRO:HB3	1.49	0.78
1:i:431:GLN:HE22	1:j:354:PRO:HB3	1.49	0.78
1:6:610:GLN:HE21	1:7:627:THR:HG22	1.49	0.78
1:B:610:GLN:HE21	1:J:627:THR:HG22	1.49	0.78
1:D:627:THR:HG22	1:P:610:GLN:HE21	1.49	0.78
1:F:354:PRO:HB3	1:Q:431:GLN:HE22	1.48	0.78
1:G:431:GLN:HE22	1:I:354:PRO:HB3	1.47	0.78
1:K:627:THR:HG22	1:8:610:GLN:HE21	1.49	0.78
1:M:627:THR:HG22	1:b:610:GLN:HE21	1.49	0.78
1:T:431:GLN:HE22	1:d:354:PRO:HB3	1.49	0.78
1:K:610:GLN:HE21	1:a:627:THR:HG22	1.49	0.78
1:T:354:PRO:HB3	1:l:431:GLN:HE22	1.48	0.78
1:X:627:THR:HG22	1:e:610:GLN:HE21	1.49	0.78
1:Z:431:GLN:HE22	1:4:354:PRO:HB3	1.49	0.78
1:m:610:GLN:HE21	1:n:627:THR:HG22	1.49	0.78
1:A:431:GLN:HE22	1:G:354:PRO:HB3	1.48	0.78
1:E:627:THR:HG22	1:F:610:GLN:HE21	1.49	0.78
1:k:407:ARG:HG3	1:w:225:SER:HB3	1.63	0.78
1:O:431:GLN:HE22	1:m:354:PRO:HB3	1.49	0.78
1:V:627:THR:HG22	1:X:610:GLN:NE2	1.99	0.78
1:Z:610:GLN:HE21	1:4:627:THR:HG22	1.49	0.78
1:5:627:THR:HG22	1:7:610:GLN:HE21	1.49	0.78
1:E:610:GLN:NE2	1:Q:627:THR:HG22	1.99	0.78
1:E:610:GLN:HE21	1:Q:627:THR:HG22	1.49	0.78
1:F:627:THR:HG22	1:Q:610:GLN:HE21	1.49	0.78
1:x:610:GLN:NE2	1:y:627:THR:HG22	1.99	0.78
1:5:431:GLN:HE22	1:6:354:PRO:HB3	1.49	0.78
1:5:627:THR:HG22	1:7:610:GLN:NE2	1.99	0.78
1:A:610:GLN:HE21	1:G:627:THR:HG22	1.49	0.77
1:B:431:GLN:HE22	1:J:354:PRO:HB3	1.48	0.77
1:K:354:PRO:HB3	1:8:431:GLN:HE22	1.49	0.77
1:d:610:GLN:NE2	1:l:627:THR:HG22	2.00	0.77
1:m:610:GLN:NE2	1:n:627:THR:HG22	2.00	0.77
1:t:610:GLN:HE21	1:u:627:THR:HG22	1.49	0.77
1:z:431:GLN:HE22	1:1:354:PRO:HB3	1.49	0.77
1:1:610:GLN:HE21	1:2:627:THR:HG22	1.48	0.77
1:C:610:GLN:HE21	1:b:627:THR:HG22	1.49	0.77
1:F:627:THR:HG22	1:Q:610:GLN:NE2	2.00	0.77
1:K:627:THR:HG22	1:8:610:GLN:NE2	1.99	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:X:354:PRO:HB3	1:e:431:GLN:HE22	1.48	0.77
1:Z:610:GLN:NE2	1:4:627:THR:HG22	2.00	0.77
1:d:431:GLN:HE22	1:l:354:PRO:HB3	1.49	0.77
1:w:610:GLN:HE21	1:x:627:THR:HG22	1.49	0.77
1:z:627:THR:HG22	1:2:610:GLN:NE2	2.00	0.77
1:H:354:PRO:HB3	1:Y:431:GLN:HE22	1.49	0.77
1:M:354:PRO:HB3	1:b:431:GLN:HE22	1.49	0.77
1:R:610:GLN:HE21	1:S:627:THR:HG22	1.49	0.77
1:V:627:THR:HG22	1:X:610:GLN:HE21	1.49	0.77
1:Z:354:PRO:HB3	1:3:431:GLN:HE22	1.49	0.77
1:c:431:GLN:HE22	1:o:354:PRO:HB3	1.49	0.77
1:c:610:GLN:NE2	1:o:627:THR:HG22	1.99	0.77
1:x:431:GLN:HE22	1:y:354:PRO:HB3	1.49	0.77
1:B:354:PRO:HB3	1:L:431:GLN:HE22	1.49	0.77
1:C:627:THR:HG22	1:M:610:GLN:HE21	1.49	0.77
1:D:354:PRO:HB3	1:P:431:GLN:HE22	1.49	0.77
1:D:627:THR:HG22	1:P:610:GLN:NE2	1.99	0.77
1:N:431:GLN:HE22	1:P:354:PRO:HB3	1.49	0.77
1:T:627:THR:HG22	1:l:610:GLN:HE21	1.49	0.77
1:W:431:GLN:HE22	1:Y:354:PRO:HB3	1.49	0.77
1:c:354:PRO:HB3	1:p:431:GLN:HE22	1.48	0.77
1:f:627:THR:HG22	1:g:610:GLN:NE2	1.99	0.77
1:r:431:GLN:HE22	1:s:354:PRO:HB3	1.49	0.77
1:5:610:GLN:HE21	1:6:627:THR:HG22	1.49	0.77
1:B:627:THR:HG22	1:L:610:GLN:HE21	1.49	0.77
1:C:354:PRO:HB3	1:M:431:GLN:HE22	1.49	0.77
1:C:610:GLN:NE2	1:b:627:THR:HG22	2.00	0.77
1:H:627:THR:HG22	1:Y:610:GLN:NE2	2.00	0.77
1:J:610:GLN:HE21	1:L:627:THR:HG22	1.49	0.77
1:R:627:THR:HG22	1:U:610:GLN:HE21	1.49	0.77
1:W:610:GLN:HE21	1:Y:627:THR:HG22	1.49	0.77
1:f:627:THR:HG22	1:g:610:GLN:HE21	1.49	0.77
1:g:627:THR:HG22	1:h:610:GLN:HE21	1.49	0.77
1:o:610:GLN:NE2	1:p:627:THR:HG22	1.99	0.77
1:x:610:GLN:HE21	1:y:627:THR:HG22	1.49	0.77
1:z:627:THR:HG22	1:2:610:GLN:HE21	1.49	0.77
1:5:610:GLN:NE2	1:6:627:THR:HG22	2.00	0.77
1:6:610:GLN:NE2	1:7:627:THR:HG22	2.00	0.77
1:B:610:GLN:NE2	1:J:627:THR:HG22	2.00	0.77
1:E:627:THR:HG22	1:F:610:GLN:NE2	1.99	0.77
1:M:627:THR:HG22	1:b:610:GLN:NE2	1.99	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:S:431:GLN:HE22	1:U:354:PRO:HB3	1.48	0.77
1:V:354:PRO:HB3	1:X:431:GLN:HE22	1.49	0.77
1:a:431:GLN:HE22	1:8:354:PRO:HB3	1.49	0.77
1:d:610:GLN:HE21	1:l:627:THR:HG22	1.49	0.77
1:i:610:GLN:NE2	1:j:627:THR:HG22	2.00	0.77
1:j:610:GLN:NE2	1:k:627:THR:HG22	1.99	0.77
1:q:431:GLN:HE22	1:r:354:PRO:HB3	1.49	0.77
1:q:610:GLN:HE21	1:r:627:THR:HG22	1.49	0.77
1:r:610:GLN:NE2	1:s:627:THR:HG22	2.00	0.77
1:w:431:GLN:HE22	1:x:354:PRO:HB3	1.49	0.77
1:z:610:GLN:HE21	1:1:627:THR:HG22	1.49	0.77
1:B:627:THR:HG22	1:L:610:GLN:NE2	2.00	0.77
1:C:431:GLN:HE22	1:b:354:PRO:HB3	1.49	0.77
1:C:627:THR:HG22	1:M:610:GLN:NE2	1.99	0.77
1:J:610:GLN:NE2	1:L:627:THR:HG22	1.99	0.77
1:N:610:GLN:HE21	1:P:627:THR:HG22	1.49	0.77
1:g:354:PRO:HB3	1:h:431:GLN:HE22	1.48	0.77
1:g:627:THR:HG22	1:h:610:GLN:NE2	2.00	0.77
1:G:610:GLN:NE2	1:I:627:THR:HG22	2.00	0.77
1:J:431:GLN:HE22	1:L:354:PRO:HB3	1.49	0.77
1:X:627:THR:HG22	1:e:610:GLN:NE2	1.99	0.77
1:c:627:THR:HG22	1:p:610:GLN:NE2	2.00	0.77
1:i:627:THR:HG22	1:k:610:GLN:HE21	1.49	0.77
1:t:354:PRO:HB3	1:v:431:GLN:HE22	1.49	0.77
1:t:627:THR:HG22	1:v:610:GLN:HE21	1.49	0.77
1:D:431:GLN:HE22	1:N:354:PRO:HB3	1.49	0.77
1:H:610:GLN:NE2	1:W:627:THR:HG22	1.99	0.77
1:R:354:PRO:HB3	1:U:431:GLN:HE22	1.49	0.77
1:S:610:GLN:HE21	1:U:627:THR:HG22	1.49	0.77
1:V:610:GLN:NE2	1:e:627:THR:HG22	1.99	0.77
1:a:610:GLN:NE2	1:8:627:THR:HG22	1.99	0.77
1:a:610:GLN:HE21	1:8:627:THR:HG22	1.49	0.77
1:f:610:GLN:NE2	1:h:627:THR:HG22	1.99	0.77
1:q:627:THR:HG22	1:s:610:GLN:NE2	1.99	0.77
1:u:610:GLN:HE21	1:v:627:THR:HG22	1.49	0.77
1:w:627:THR:HG22	1:y:610:GLN:NE2	1.99	0.77
1:K:431:GLN:HE22	1:a:354:PRO:HB3	1.49	0.77
1:N:610:GLN:NE2	1:P:627:THR:HG22	1.99	0.77
1:R:610:GLN:NE2	1:S:627:THR:HG22	2.00	0.77
1:S:610:GLN:NE2	1:U:627:THR:HG22	1.99	0.77
1:W:610:GLN:NE2	1:Y:627:THR:HG22	1.99	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:i:354:PRO:HB3	1:k:431:GLN:HE22	1.49	0.77
1:i:610:GLN:HE21	1:j:627:THR:HG22	1.49	0.77
1:i:627:THR:HG22	1:k:610:GLN:NE2	2.00	0.77
1:j:610:GLN:HE21	1:k:627:THR:HG22	1.49	0.77
1:q:354:PRO:HB3	1:s:431:GLN:HE22	1.48	0.77
1:q:610:GLN:NE2	1:r:627:THR:HG22	1.99	0.77
1:t:610:GLN:NE2	1:u:627:THR:HG22	2.00	0.77
1:w:610:GLN:NE2	1:x:627:THR:HG22	1.99	0.77
1:O:627:THR:HG22	1:n:610:GLN:NE2	1.99	0.76
1:f:610:GLN:HE21	1:h:627:THR:HG22	1.49	0.76
1:t:627:THR:HG22	1:v:610:GLN:NE2	2.00	0.76
1:w:354:PRO:HB3	1:y:431:GLN:HE22	1.49	0.76
1:3:627:THR:HG22	1:4:610:GLN:NE2	2.00	0.76
1:A:627:THR:HG22	1:I:610:GLN:NE2	2.00	0.76
1:H:431:GLN:HE22	1:W:354:PRO:HB3	1.49	0.76
1:R:627:THR:HG22	1:U:610:GLN:NE2	1.99	0.76
1:q:627:THR:HG22	1:s:610:GLN:HE21	1.49	0.76
1:u:431:GLN:HE22	1:v:354:PRO:HB3	1.49	0.76
1:A:610:GLN:NE2	1:G:627:THR:HG22	2.00	0.76
1:D:610:GLN:NE2	1:N:627:THR:HG22	1.99	0.76
1:T:610:GLN:HE21	1:d:627:THR:HG22	1.49	0.76
1:T:627:THR:HG22	1:l:610:GLN:NE2	1.99	0.76
1:V:431:GLN:HE22	1:e:354:PRO:HB3	1.49	0.76
1:H:627:THR:HG22	1:Y:610:GLN:HE21	1.49	0.76
1:Z:627:THR:HG22	1:3:610:GLN:NE2	1.99	0.76
1:Z:627:THR:HG22	1:3:610:GLN:HE21	1.49	0.76
1:j:431:GLN:HE22	1:k:354:PRO:HB3	1.48	0.76
1:K:610:GLN:NE2	1:a:627:THR:HG22	1.99	0.76
1:O:610:GLN:NE2	1:m:627:THR:HG22	2.00	0.76
1:O:610:GLN:HE21	1:m:627:THR:HG22	1.49	0.76
1:u:610:GLN:NE2	1:v:627:THR:HG22	2.00	0.76
1:1:610:GLN:NE2	1:2:627:THR:HG22	1.99	0.76
1:c:610:GLN:HE21	1:o:627:THR:HG22	1.49	0.76
1:z:610:GLN:NE2	1:1:627:THR:HG22	2.00	0.76
1:G:343:ILE:HD12	1:G:651:ILE:HD11	1.68	0.76
1:M:343:ILE:HD12	1:M:651:ILE:HD11	1.68	0.76
1:J:343:ILE:HD12	1:J:651:ILE:HD11	1.68	0.76
1:S:343:ILE:HD12	1:S:651:ILE:HD11	1.68	0.76
1:Y:343:ILE:HD12	1:Y:651:ILE:HD11	1.68	0.76
1:d:343:ILE:HD12	1:d:651:ILE:HD11	1.68	0.76
1:r:343:ILE:HD12	1:r:651:ILE:HD11	1.68	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:u:343:ILE:HD12	1:u:651:ILE:HD11	1.68	0.76
1:w:627:THR:HG22	1:y:610:GLN:HE21	1.49	0.76
1:2:343:ILE:HD12	1:2:651:ILE:HD11	1.68	0.76
1:3:627:THR:HG22	1:4:610:GLN:HE21	1.49	0.76
1:H:610:GLN:HE21	1:W:627:THR:HG22	1.49	0.76
1:O:627:THR:HG22	1:n:610:GLN:HE21	1.49	0.76
1:V:610:GLN:HE21	1:e:627:THR:HG22	1.49	0.76
1:p:343:ILE:HD12	1:p:651:ILE:HD11	1.68	0.76
1:T:610:GLN:NE2	1:d:627:THR:HG22	2.00	0.76
1:Z:343:ILE:HD12	1:Z:651:ILE:HD11	1.68	0.76
1:f:343:ILE:HD12	1:f:651:ILE:HD11	1.68	0.76
1:f:431:GLN:HE22	1:h:354:PRO:HB3	1.49	0.76
1:m:343:ILE:HD12	1:m:651:ILE:HD11	1.68	0.76
1:r:610:GLN:HE21	1:s:627:THR:HG22	1.49	0.76
1:A:354:PRO:HB3	1:I:431:GLN:HE22	1.50	0.75
1:e:343:ILE:HD12	1:e:651:ILE:HD11	1.68	0.75
1:j:343:ILE:HD12	1:j:651:ILE:HD11	1.68	0.75
1:w:343:ILE:HD12	1:w:651:ILE:HD11	1.68	0.75
1:6:343:ILE:HD12	1:6:651:ILE:HD11	1.68	0.75
1:6:431:GLN:HE22	1:7:354:PRO:HB3	1.48	0.75
1:D:343:ILE:HD12	1:D:651:ILE:HD11	1.68	0.75
1:E:354:PRO:HB3	1:F:431:GLN:HE22	1.49	0.75
1:F:343:ILE:HD12	1:F:651:ILE:HD11	1.68	0.75
1:K:343:ILE:HD12	1:K:651:ILE:HD11	1.68	0.75
1:O:343:ILE:HD12	1:O:651:ILE:HD11	1.68	0.75
1:g:343:ILE:HD12	1:g:651:ILE:HD11	1.68	0.75
1:t:343:ILE:HD12	1:t:651:ILE:HD11	1.68	0.75
1:A:343:ILE:HD12	1:A:651:ILE:HD11	1.68	0.75
1:Q:343:ILE:HD12	1:Q:651:ILE:HD11	1.68	0.75
1:T:343:ILE:HD12	1:T:651:ILE:HD11	1.68	0.75
1:W:343:ILE:HD12	1:W:651:ILE:HD11	1.68	0.75
1:i:343:ILE:HD12	1:i:651:ILE:HD11	1.68	0.75
1:1:343:ILE:HD12	1:1:651:ILE:HD11	1.68	0.75
1:5:343:ILE:HD12	1:5:651:ILE:HD11	1.68	0.75
1:R:343:ILE:HD12	1:R:651:ILE:HD11	1.68	0.75
1:b:343:ILE:HD12	1:b:651:ILE:HD11	1.68	0.75
1:o:343:ILE:HD12	1:o:651:ILE:HD11	1.68	0.75
1:q:343:ILE:HD12	1:q:651:ILE:HD11	1.68	0.75
1:3:343:ILE:HD12	1:3:651:ILE:HD11	1.68	0.75
1:B:343:ILE:HD12	1:B:651:ILE:HD11	1.68	0.75
1:G:610:GLN:HE21	1:I:627:THR:HG22	1.49	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:X:343:ILE:HD12	1:X:651:ILE:HD11	1.68	0.75
1:x:343:ILE:HD12	1:x:651:ILE:HD11	1.68	0.75
1:A:627:THR:HG22	1:I:610:GLN:HE21	1.51	0.74
1:c:627:THR:HG22	1:p:610:GLN:HE21	1.49	0.74
1:a:343:ILE:HD12	1:a:651:ILE:HD11	1.68	0.74
1:N:343:ILE:HD12	1:N:651:ILE:HD11	1.68	0.74
1:C:343:ILE:HD12	1:C:651:ILE:HD11	1.68	0.74
1:l:343:ILE:HD12	1:l:651:ILE:HD11	1.68	0.74
1:z:343:ILE:HD12	1:z:651:ILE:HD11	1.68	0.74
1:L:343:ILE:HD12	1:L:651:ILE:HD11	1.68	0.74
1:H:343:ILE:HD12	1:H:651:ILE:HD11	1.68	0.74
1:n:343:ILE:HD12	1:n:651:ILE:HD11	1.68	0.74
1:v:343:ILE:HD12	1:v:651:ILE:HD11	1.68	0.74
1:7:343:ILE:HD12	1:7:651:ILE:HD11	1.68	0.74
1:P:343:ILE:HD12	1:P:651:ILE:HD11	1.68	0.73
1:V:343:ILE:HD12	1:V:651:ILE:HD11	1.68	0.73
1:k:343:ILE:HD12	1:k:651:ILE:HD11	1.68	0.73
1:8:343:ILE:HD12	1:8:651:ILE:HD11	1.68	0.73
1:c:343:ILE:HD12	1:c:651:ILE:HD11	1.68	0.73
1:s:343:ILE:HD12	1:s:651:ILE:HD11	1.68	0.73
1:y:343:ILE:HD12	1:y:651:ILE:HD11	1.68	0.73
1:E:343:ILE:HD12	1:E:651:ILE:HD11	1.68	0.73
1:U:343:ILE:HD12	1:U:651:ILE:HD11	1.68	0.73
1:h:343:ILE:HD12	1:h:651:ILE:HD11	1.68	0.73
1:4:343:ILE:HD12	1:4:651:ILE:HD11	1.68	0.73
1:I:343:ILE:HD12	1:I:651:ILE:HD11	1.68	0.73
1:H:604:LEU:HB2	1:H:607:MET:HE3	1.72	0.72
1:s:604:LEU:HB2	1:s:607:MET:HE3	1.72	0.72
1:G:604:LEU:HB2	1:G:607:MET:HE3	1.72	0.72
1:K:604:LEU:HB2	1:K:607:MET:HE3	1.72	0.72
1:p:604:LEU:HB2	1:p:607:MET:HE3	1.72	0.72
1:D:604:LEU:HB2	1:D:607:MET:HE3	1.72	0.72
1:T:604:LEU:HB2	1:T:607:MET:HE3	1.72	0.72
1:6:604:LEU:HB2	1:6:607:MET:HE3	1.72	0.72
1:F:604:LEU:HB2	1:F:607:MET:HE3	1.72	0.72
1:O:604:LEU:HB2	1:O:607:MET:HE3	1.72	0.72
1:R:604:LEU:HB2	1:R:607:MET:HE3	1.72	0.72
1:e:604:LEU:HB2	1:e:607:MET:HE3	1.72	0.72
1:k:604:LEU:HB2	1:k:607:MET:HE3	1.72	0.72
1:2:604:LEU:HB2	1:2:607:MET:HE3	1.72	0.72
1:3:604:LEU:HB2	1:3:607:MET:HE3	1.72	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:h:604:LEU:HB2	1:h:607:MET:HE3	1.72	0.72
1:t:604:LEU:HB2	1:t:607:MET:HE3	1.72	0.72
1:1:604:LEU:HB2	1:1:607:MET:HE3	1.72	0.72
1:L:604:LEU:HB2	1:L:607:MET:HE3	1.72	0.71
1:d:604:LEU:HB2	1:d:607:MET:HE3	1.72	0.71
1:w:604:LEU:HB2	1:w:607:MET:HE3	1.72	0.71
1:C:604:LEU:HB2	1:C:607:MET:HE3	1.72	0.71
1:j:604:LEU:HB2	1:j:607:MET:HE3	1.72	0.71
1:a:604:LEU:HB2	1:a:607:MET:HE3	1.72	0.71
1:n:604:LEU:HB2	1:n:607:MET:HE3	1.72	0.71
1:x:604:LEU:HB2	1:x:607:MET:HE3	1.72	0.71
1:A:298:ASP:OD2	1:E:400:TYR:OH	2.09	0.71
1:N:604:LEU:HB2	1:N:607:MET:HE3	1.72	0.71
1:B:604:LEU:HB2	1:B:607:MET:HE3	1.72	0.71
1:X:604:LEU:HB2	1:X:607:MET:HE3	1.72	0.71
1:4:604:LEU:HB2	1:4:607:MET:HE3	1.72	0.71
1:E:604:LEU:HB2	1:E:607:MET:HE3	1.72	0.71
1:f:604:LEU:HB2	1:f:607:MET:HE3	1.72	0.71
1:m:604:LEU:HB2	1:m:607:MET:HE3	1.72	0.71
1:Z:604:LEU:HB2	1:Z:607:MET:HE3	1.72	0.71
1:b:604:LEU:HB2	1:b:607:MET:HE3	1.72	0.71
1:g:604:LEU:HB2	1:g:607:MET:HE3	1.72	0.71
1:7:604:LEU:HB2	1:7:607:MET:HE3	1.72	0.71
1:P:604:LEU:HB2	1:P:607:MET:HE3	1.72	0.71
1:i:604:LEU:HB2	1:i:607:MET:HE3	1.72	0.71
1:r:604:LEU:HB2	1:r:607:MET:HE3	1.72	0.71
1:l:604:LEU:HB2	1:l:607:MET:HE3	1.72	0.71
1:Y:604:LEU:HB2	1:Y:607:MET:HE3	1.72	0.70
1:J:405:MET:C	1:J:406:LEU:HD12	2.17	0.70
1:M:405:MET:C	1:M:406:LEU:HD12	2.17	0.70
1:M:604:LEU:HB2	1:M:607:MET:HE3	1.72	0.70
1:p:405:MET:C	1:p:406:LEU:HD12	2.17	0.70
1:z:604:LEU:HB2	1:z:607:MET:HE3	1.72	0.70
1:8:604:LEU:HB2	1:8:607:MET:HE3	1.72	0.70
1:C:405:MET:C	1:C:406:LEU:HD12	2.17	0.70
1:G:405:MET:C	1:G:406:LEU:HD12	2.17	0.70
1:H:405:MET:C	1:H:406:LEU:HD12	2.17	0.70
1:L:405:MET:C	1:L:406:LEU:HD12	2.17	0.70
1:s:405:MET:C	1:s:406:LEU:HD12	2.17	0.70
1:D:405:MET:C	1:D:406:LEU:HD12	2.17	0.70
1:J:604:LEU:HB2	1:J:607:MET:HE3	1.72	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:S:405:MET:C	1:S:406:LEU:HD12	2.17	0.70
1:S:604:LEU:HB2	1:S:607:MET:HE3	1.72	0.70
1:a:405:MET:C	1:a:406:LEU:HD12	2.17	0.70
1:j:405:MET:C	1:j:406:LEU:HD12	2.17	0.70
1:N:405:MET:C	1:N:406:LEU:HD12	2.17	0.70
1:d:405:MET:C	1:d:406:LEU:HD12	2.17	0.70
1:f:405:MET:C	1:f:406:LEU:HD12	2.17	0.70
1:i:405:MET:C	1:i:406:LEU:HD12	2.17	0.70
1:u:405:MET:C	1:u:406:LEU:HD12	2.17	0.70
1:v:604:LEU:HB2	1:v:607:MET:HE3	1.72	0.70
1:w:405:MET:C	1:w:406:LEU:HD12	2.17	0.70
1:A:604:LEU:HB2	1:A:607:MET:HE3	1.72	0.70
1:K:405:MET:C	1:K:406:LEU:HD12	2.17	0.70
1:W:604:LEU:HB2	1:W:607:MET:HE3	1.72	0.70
1:l:405:MET:C	1:l:406:LEU:HD12	2.17	0.70
1:o:604:LEU:HB2	1:o:607:MET:HE3	1.72	0.70
1:q:405:MET:C	1:q:406:LEU:HD12	2.17	0.70
1:q:604:LEU:HB2	1:q:607:MET:HE3	1.72	0.70
1:u:604:LEU:HB2	1:u:607:MET:HE3	1.72	0.70
1:z:405:MET:C	1:z:406:LEU:HD12	2.17	0.70
1:Q:604:LEU:HB2	1:Q:607:MET:HE3	1.72	0.70
1:U:604:LEU:HB2	1:U:607:MET:HE3	1.72	0.70
1:W:405:MET:C	1:W:406:LEU:HD12	2.17	0.70
1:e:405:MET:C	1:e:406:LEU:HD12	2.17	0.70
1:v:405:MET:C	1:v:406:LEU:HD12	2.17	0.70
1:A:405:MET:C	1:A:406:LEU:HD12	2.17	0.70
1:E:405:MET:C	1:E:406:LEU:HD12	2.17	0.70
1:F:405:MET:C	1:F:406:LEU:HD12	2.17	0.70
1:U:405:MET:C	1:U:406:LEU:HD12	2.17	0.70
1:o:405:MET:C	1:o:406:LEU:HD12	2.17	0.70
1:2:405:MET:C	1:2:406:LEU:HD12	2.17	0.70
1:3:405:MET:C	1:3:406:LEU:HD12	2.17	0.70
1:6:405:MET:C	1:6:406:LEU:HD12	2.17	0.70
1:O:405:MET:C	1:O:406:LEU:HD12	2.17	0.70
1:g:405:MET:C	1:g:406:LEU:HD12	2.17	0.70
1:5:604:LEU:HB2	1:5:607:MET:HE3	1.72	0.70
1:7:405:MET:C	1:7:406:LEU:HD12	2.17	0.70
1:Q:405:MET:C	1:Q:406:LEU:HD12	2.17	0.70
1:V:405:MET:C	1:V:406:LEU:HD12	2.17	0.70
1:1:405:MET:C	1:1:406:LEU:HD12	2.17	0.70
1:5:405:MET:C	1:5:406:LEU:HD12	2.17	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:T:405:MET:C	1:T:406:LEU:HD12	2.17	0.69
1:y:405:MET:C	1:y:406:LEU:HD12	2.17	0.69
1:B:405:MET:C	1:B:406:LEU:HD12	2.17	0.69
1:I:405:MET:C	1:I:406:LEU:HD12	2.17	0.69
1:1:568:ILE:HD12	1:1:572:ASN:HD22	1.57	0.69
1:V:400:TYR:OH	1:W:298:ASP:OD2	2.11	0.69
1:V:604:LEU:HB2	1:V:607:MET:HE3	1.72	0.69
1:X:405:MET:C	1:X:406:LEU:HD12	2.17	0.69
1:b:405:MET:C	1:b:406:LEU:HD12	2.17	0.69
1:n:499:ASN:OD1	1:n:500:ASN:N	2.26	0.69
1:p:568:ILE:HD12	1:p:572:ASN:HD22	1.58	0.69
1:t:298:ASP:OD2	1:6:400:TYR:OH	2.11	0.69
1:y:604:LEU:HB2	1:y:607:MET:HE3	1.72	0.69
1:6:556:ASP:OD1	1:6:557:TYR:N	2.26	0.69
1:G:568:ILE:HD12	1:G:572:ASN:HD22	1.58	0.69
1:I:604:LEU:HB2	1:I:607:MET:HE3	1.72	0.69
1:T:568:ILE:HD12	1:T:572:ASN:HD22	1.58	0.69
1:X:499:ASN:OD1	1:X:500:ASN:N	2.26	0.69
1:c:405:MET:C	1:c:406:LEU:HD12	2.17	0.69
1:g:499:ASN:OD1	1:g:500:ASN:N	2.26	0.69
1:h:568:ILE:HD12	1:h:572:ASN:HD22	1.58	0.69
1:i:499:ASN:OD1	1:i:500:ASN:N	2.26	0.69
1:j:400:TYR:OH	1:l:298:ASP:OD2	2.11	0.69
1:k:568:ILE:HD12	1:k:572:ASN:HD22	1.58	0.69
1:4:499:ASN:OD1	1:4:500:ASN:N	2.26	0.69
1:8:405:MET:C	1:8:406:LEU:HD12	2.17	0.69
1:F:556:ASP:OD1	1:F:557:TYR:N	2.26	0.69
1:H:718:ASN:HD21	1:H:722:THR:HB	1.58	0.69
1:P:405:MET:C	1:P:406:LEU:HD12	2.17	0.69
1:X:718:ASN:HD21	1:X:722:THR:HB	1.58	0.69
1:Y:568:ILE:HD12	1:Y:572:ASN:HD22	1.58	0.69
1:l:499:ASN:OD1	1:l:500:ASN:N	2.26	0.69
1:n:405:MET:C	1:n:406:LEU:HD12	2.17	0.69
1:r:405:MET:C	1:r:406:LEU:HD12	2.17	0.69
1:r:568:ILE:HD12	1:r:572:ASN:HD22	1.58	0.69
1:x:718:ASN:HD21	1:x:722:THR:HB	1.58	0.69
1:z:499:ASN:OD1	1:z:500:ASN:N	2.26	0.69
1:5:400:TYR:OH	1:8:298:ASP:OD2	2.11	0.69
1:A:499:ASN:OD1	1:A:500:ASN:N	2.26	0.69
1:A:556:ASP:OD1	1:A:557:TYR:N	2.26	0.69
1:D:499:ASN:OD1	1:D:500:ASN:N	2.26	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:568:ILE:HD12	1:E:572:ASN:HD22	1.58	0.69
1:E:718:ASN:HD21	1:E:722:THR:HB	1.58	0.69
1:K:499:ASN:OD1	1:K:500:ASN:N	2.26	0.69
1:L:556:ASP:OD1	1:L:557:TYR:N	2.26	0.69
1:M:499:ASN:OD1	1:M:500:ASN:N	2.26	0.69
1:P:298:ASP:OD2	1:Q:400:TYR:OH	2.11	0.69
1:Q:298:ASP:OD2	1:S:400:TYR:OH	2.11	0.69
1:R:556:ASP:OD1	1:R:557:TYR:N	2.26	0.69
1:Y:405:MET:C	1:Y:406:LEU:HD12	2.17	0.69
1:c:604:LEU:HB2	1:c:607:MET:HE3	1.72	0.69
1:d:556:ASP:OD1	1:d:557:TYR:N	2.26	0.69
1:e:298:ASP:OD2	1:h:400:TYR:OH	2.10	0.69
1:h:405:MET:C	1:h:406:LEU:HD12	2.17	0.69
1:j:556:ASP:OD1	1:j:557:TYR:N	2.26	0.69
1:q:298:ASP:OD2	1:y:400:TYR:OH	2.11	0.69
1:t:400:TYR:OH	1:y:298:ASP:OD2	2.11	0.69
1:t:556:ASP:OD1	1:t:557:TYR:N	2.26	0.69
1:x:499:ASN:OD1	1:x:500:ASN:N	2.26	0.69
1:z:568:ILE:HD12	1:z:572:ASN:HD22	1.58	0.69
1:7:568:ILE:HD12	1:7:572:ASN:HD22	1.58	0.69
1:8:556:ASP:OD1	1:8:557:TYR:N	2.26	0.69
1:D:568:ILE:HD12	1:D:572:ASN:HD22	1.58	0.69
1:F:400:TYR:OH	1:R:298:ASP:OD2	2.11	0.69
1:H:556:ASP:OD1	1:H:557:TYR:N	2.26	0.69
1:J:499:ASN:OD1	1:J:500:ASN:N	2.26	0.69
1:L:298:ASP:OD2	1:b:400:TYR:OH	2.11	0.69
1:P:556:ASP:OD1	1:P:557:TYR:N	2.26	0.69
1:S:298:ASP:OD2	1:d:400:TYR:OH	2.11	0.69
1:S:568:ILE:HD12	1:S:572:ASN:HD22	1.58	0.69
1:Y:499:ASN:OD1	1:Y:500:ASN:N	2.26	0.69
1:f:556:ASP:OD1	1:f:557:TYR:N	2.26	0.69
1:l:568:ILE:HD12	1:l:572:ASN:HD22	1.58	0.69
1:o:499:ASN:OD1	1:o:500:ASN:N	2.26	0.69
1:o:718:ASN:HD21	1:o:722:THR:HB	1.58	0.69
1:s:718:ASN:HD21	1:s:722:THR:HB	1.58	0.69
1:2:298:ASP:OD2	1:3:400:TYR:OH	2.10	0.69
1:2:556:ASP:OD1	1:2:557:TYR:N	2.26	0.69
1:7:718:ASN:HD21	1:7:722:THR:HB	1.58	0.69
1:8:499:ASN:OD1	1:8:500:ASN:N	2.26	0.69
1:A:718:ASN:HD21	1:A:722:THR:HB	1.58	0.69
1:B:400:TYR:OH	1:C:298:ASP:OD2	2.11	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:556:ASP:OD1	1:C:557:TYR:N	2.26	0.69
1:E:499:ASN:OD1	1:E:500:ASN:N	2.26	0.69
1:G:298:ASP:OD2	1:W:400:TYR:OH	2.10	0.69
1:G:499:ASN:OD1	1:G:500:ASN:N	2.26	0.69
1:G:718:ASN:HD21	1:G:722:THR:HB	1.58	0.69
1:H:499:ASN:OD1	1:H:500:ASN:N	2.26	0.69
1:M:568:ILE:HD12	1:M:572:ASN:HD22	1.58	0.69
1:N:499:ASN:OD1	1:N:500:ASN:N	2.26	0.69
1:P:499:ASN:OD1	1:P:500:ASN:N	2.26	0.69
1:R:400:TYR:OH	1:V:298:ASP:OD2	2.11	0.69
1:R:405:MET:C	1:R:406:LEU:HD12	2.17	0.69
1:R:499:ASN:OD1	1:R:500:ASN:N	2.26	0.69
1:U:298:ASP:OD2	1:e:400:TYR:OH	2.10	0.69
1:W:718:ASN:HD21	1:W:722:THR:HB	1.58	0.69
1:Z:405:MET:C	1:Z:406:LEU:HD12	2.17	0.69
1:Z:556:ASP:OD1	1:Z:557:TYR:N	2.26	0.69
1:a:499:ASN:OD1	1:a:500:ASN:N	2.26	0.69
1:a:568:ILE:HD12	1:a:572:ASN:HD22	1.58	0.69
1:f:400:TYR:OH	1:z:298:ASP:OD2	2.11	0.69
1:g:718:ASN:HD21	1:g:722:THR:HB	1.58	0.69
1:h:556:ASP:OD1	1:h:557:TYR:N	2.26	0.69
1:i:718:ASN:HD21	1:i:722:THR:HB	1.58	0.69
1:m:298:ASP:OD2	1:s:400:TYR:OH	2.11	0.69
1:m:556:ASP:OD1	1:m:557:TYR:N	2.26	0.69
1:o:298:ASP:OD2	1:7:400:TYR:OH	2.11	0.69
1:o:556:ASP:OD1	1:o:557:TYR:N	2.26	0.69
1:p:499:ASN:OD1	1:p:500:ASN:N	2.26	0.69
1:q:718:ASN:HD21	1:q:722:THR:HB	1.58	0.69
1:r:499:ASN:OD1	1:r:500:ASN:N	2.26	0.69
1:s:499:ASN:OD1	1:s:500:ASN:N	2.26	0.69
1:s:556:ASP:OD1	1:s:557:TYR:N	2.26	0.69
1:t:499:ASN:OD1	1:t:500:ASN:N	2.26	0.69
1:u:298:ASP:OD2	1:2:400:TYR:OH	2.11	0.69
1:u:568:ILE:HD12	1:u:572:ASN:HD22	1.58	0.69
1:v:499:ASN:OD1	1:v:500:ASN:N	2.26	0.69
1:x:405:MET:C	1:x:406:LEU:HD12	2.17	0.69
1:4:405:MET:C	1:4:406:LEU:HD12	2.17	0.69
1:7:499:ASN:OD1	1:7:500:ASN:N	2.26	0.69
1:B:499:ASN:OD1	1:B:500:ASN:N	2.26	0.69
1:J:568:ILE:HD12	1:J:572:ASN:HD22	1.58	0.69
1:K:568:ILE:HD12	1:K:572:ASN:HD22	1.58	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:568:ILE:HD12	1:N:572:ASN:HD22	1.58	0.69
1:P:568:ILE:HD12	1:P:572:ASN:HD22	1.58	0.69
1:U:499:ASN:OD1	1:U:500:ASN:N	2.26	0.69
1:b:499:ASN:OD1	1:b:500:ASN:N	2.26	0.69
1:f:499:ASN:OD1	1:f:500:ASN:N	2.26	0.69
1:g:556:ASP:OD1	1:g:557:TYR:N	2.26	0.69
1:i:556:ASP:OD1	1:i:557:TYR:N	2.26	0.69
1:j:499:ASN:OD1	1:j:500:ASN:N	2.26	0.69
1:k:405:MET:C	1:k:406:LEU:HD12	2.17	0.69
1:k:556:ASP:OD1	1:k:557:TYR:N	2.26	0.69
1:m:405:MET:C	1:m:406:LEU:HD12	2.17	0.69
1:p:718:ASN:HD21	1:p:722:THR:HB	1.58	0.69
1:u:499:ASN:OD1	1:u:500:ASN:N	2.26	0.69
1:1:499:ASN:OD1	1:1:500:ASN:N	2.26	0.69
1:8:568:ILE:HD12	1:8:572:ASN:HD22	1.58	0.69
1:B:568:ILE:HD12	1:B:572:ASN:HD22	1.58	0.69
1:H:400:TYR:OH	1:Z:298:ASP:OD2	2.11	0.69
1:O:499:ASN:OD1	1:O:500:ASN:N	2.26	0.69
1:S:499:ASN:OD1	1:S:500:ASN:N	2.26	0.69
1:T:499:ASN:OD1	1:T:500:ASN:N	2.26	0.69
1:X:298:ASP:OD2	1:Y:400:TYR:OH	2.11	0.69
1:Y:718:ASN:HD21	1:Y:722:THR:HB	1.58	0.69
1:e:568:ILE:HD12	1:e:572:ASN:HD22	1.58	0.69
1:k:718:ASN:HD21	1:k:722:THR:HB	1.58	0.69
1:r:718:ASN:HD21	1:r:722:THR:HB	1.58	0.69
1:t:405:MET:C	1:t:406:LEU:HD12	2.17	0.69
1:u:400:TYR:OH	1:5:298:ASP:OD2	2.11	0.69
1:C:499:ASN:OD1	1:C:500:ASN:N	2.26	0.68
1:E:347:THR:HG22	1:E:649:ILE:HG13	1.76	0.68
1:I:556:ASP:OD1	1:I:557:TYR:N	2.26	0.68
1:Z:347:THR:HG22	1:Z:649:ILE:HG13	1.76	0.68
1:r:400:TYR:OH	1:x:298:ASP:OD2	2.11	0.68
1:v:556:ASP:OD1	1:v:557:TYR:N	2.26	0.68
1:w:568:ILE:HD12	1:w:572:ASN:HD22	1.58	0.68
1:2:347:THR:HG22	1:2:649:ILE:HG13	1.76	0.68
1:2:568:ILE:HD12	1:2:572:ASN:HD22	1.58	0.68
1:3:499:ASN:OD1	1:3:500:ASN:N	2.26	0.68
1:3:718:ASN:HD21	1:3:722:THR:HB	1.58	0.68
1:U:556:ASP:OD1	1:U:557:TYR:N	2.26	0.68
1:W:692:GLU:HG3	1:W:734:LEU:HD13	1.76	0.68
1:b:568:ILE:HD12	1:b:572:ASN:HD22	1.58	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:c:556:ASP:OD1	1:c:557:TYR:N	2.26	0.68
1:d:347:THR:HG22	1:d:649:ILE:HG13	1.76	0.68
1:d:718:ASN:HD21	1:d:722:THR:HB	1.58	0.68
1:g:347:THR:HG22	1:g:649:ILE:HG13	1.76	0.68
1:h:718:ASN:HD21	1:h:722:THR:HB	1.58	0.68
1:k:400:TYR:OH	1:w:298:ASP:OD2	2.11	0.68
1:k:499:ASN:OD1	1:k:500:ASN:N	2.26	0.68
1:m:347:THR:HG22	1:m:649:ILE:HG13	1.76	0.68
1:q:692:GLU:HG3	1:q:734:LEU:HD13	1.76	0.68
1:v:298:ASP:OD2	1:w:400:TYR:OH	2.11	0.68
1:x:347:THR:HG22	1:x:649:ILE:HG13	1.76	0.68
1:2:499:ASN:OD1	1:2:500:ASN:N	2.26	0.68
1:7:347:THR:HG22	1:7:649:ILE:HG13	1.76	0.68
1:D:556:ASP:OD1	1:D:557:TYR:N	2.26	0.68
1:F:499:ASN:OD1	1:F:500:ASN:N	2.26	0.68
1:F:568:ILE:HD12	1:F:572:ASN:HD22	1.58	0.68
1:H:298:ASP:OD2	1:I:400:TYR:OH	2.11	0.68
1:K:298:ASP:OD2	1:L:400:TYR:OH	2.11	0.68
1:K:556:ASP:OD1	1:K:557:TYR:N	2.26	0.68
1:L:347:THR:HG22	1:L:649:ILE:HG13	1.76	0.68
1:L:499:ASN:OD1	1:L:500:ASN:N	2.26	0.68
1:L:568:ILE:HD12	1:L:572:ASN:HD22	1.58	0.68
1:O:347:THR:HG22	1:O:649:ILE:HG13	1.76	0.68
1:O:718:ASN:HD21	1:O:722:THR:HB	1.58	0.68
1:U:568:ILE:HD12	1:U:572:ASN:HD22	1.58	0.68
1:U:718:ASN:HD21	1:U:722:THR:HB	1.58	0.68
1:W:499:ASN:OD1	1:W:500:ASN:N	2.26	0.68
1:W:556:ASP:OD1	1:W:557:TYR:N	2.26	0.68
1:X:347:THR:HG22	1:X:649:ILE:HG13	1.76	0.68
1:X:568:ILE:HD12	1:X:572:ASN:HD22	1.58	0.68
1:d:499:ASN:OD1	1:d:500:ASN:N	2.26	0.68
1:d:568:ILE:HD12	1:d:572:ASN:HD22	1.58	0.68
1:h:499:ASN:OD1	1:h:500:ASN:N	2.26	0.68
1:i:347:THR:HG22	1:i:649:ILE:HG13	1.76	0.68
1:j:718:ASN:HD21	1:j:722:THR:HB	1.58	0.68
1:l:718:ASN:HD21	1:l:722:THR:HB	1.58	0.68
1:m:568:ILE:HD12	1:m:572:ASN:HD22	1.58	0.68
1:m:718:ASN:HD21	1:m:722:THR:HB	1.58	0.68
1:q:556:ASP:OD1	1:q:557:TYR:N	2.26	0.68
1:v:568:ILE:HD12	1:v:572:ASN:HD22	1.58	0.68
1:1:556:ASP:OD1	1:1:557:TYR:N	2.26	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:3:347:THR:HG22	1:3:649:ILE:HG13	1.76	0.68
1:6:499:ASN:OD1	1:6:500:ASN:N	2.26	0.68
1:C:347:THR:HG22	1:C:649:ILE:HG13	1.76	0.68
1:C:568:ILE:HD12	1:C:572:ASN:HD22	1.58	0.68
1:F:692:GLU:HG3	1:F:734:LEU:HD13	1.76	0.68
1:L:692:GLU:HG3	1:L:734:LEU:HD13	1.76	0.68
1:M:437:MET:HE1	1:M:473:MET:HB3	1.76	0.68
1:T:556:ASP:OD1	1:T:557:TYR:N	2.26	0.68
1:Z:437:MET:HE1	1:Z:473:MET:HB3	1.76	0.68
1:Z:568:ILE:HD12	1:Z:572:ASN:HD22	1.58	0.68
1:c:400:TYR:OH	1:s:298:ASP:OD2	2.11	0.68
1:c:718:ASN:HD21	1:c:722:THR:HB	1.58	0.68
1:e:499:ASN:OD1	1:e:500:ASN:N	2.26	0.68
1:e:718:ASN:HD21	1:e:722:THR:HB	1.58	0.68
1:f:718:ASN:HD21	1:f:722:THR:HB	1.58	0.68
1:h:692:GLU:HG3	1:h:734:LEU:HD13	1.76	0.68
1:k:347:THR:HG22	1:k:649:ILE:HG13	1.76	0.68
1:k:692:GLU:HG3	1:k:734:LEU:HD13	1.75	0.68
1:t:568:ILE:HD12	1:t:572:ASN:HD22	1.58	0.68
1:t:718:ASN:HD21	1:t:722:THR:HB	1.58	0.68
1:u:347:THR:HG22	1:u:649:ILE:HG13	1.76	0.68
1:v:718:ASN:HD21	1:v:722:THR:HB	1.58	0.68
1:w:437:MET:HE1	1:w:473:MET:HB3	1.76	0.68
1:y:499:ASN:OD1	1:y:500:ASN:N	2.26	0.68
1:z:718:ASN:HD21	1:z:722:THR:HB	1.58	0.68
1:2:718:ASN:HD21	1:2:722:THR:HB	1.58	0.68
1:6:568:ILE:HD12	1:6:572:ASN:HD22	1.58	0.68
1:A:692:GLU:HG3	1:A:734:LEU:HD13	1.76	0.68
1:B:556:ASP:OD1	1:B:557:TYR:N	2.26	0.68
1:C:692:GLU:HG3	1:C:734:LEU:HD13	1.76	0.68
1:F:347:THR:HG22	1:F:649:ILE:HG13	1.76	0.68
1:J:437:MET:HE1	1:J:473:MET:HB3	1.76	0.68
1:M:298:ASP:OD2	1:N:400:TYR:OH	2.11	0.68
1:O:556:ASP:OD1	1:O:557:TYR:N	2.26	0.68
1:Q:437:MET:HE1	1:Q:473:MET:HB3	1.76	0.68
1:Q:499:ASN:OD1	1:Q:500:ASN:N	2.26	0.68
1:R:718:ASN:HD21	1:R:722:THR:HB	1.58	0.68
1:V:499:ASN:OD1	1:V:500:ASN:N	2.26	0.68
1:Z:499:ASN:OD1	1:Z:500:ASN:N	2.26	0.68
1:Z:718:ASN:HD21	1:Z:722:THR:HB	1.58	0.68
1:e:347:THR:HG22	1:e:649:ILE:HG13	1.76	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:e:437:MET:HE1	1:e:473:MET:HB3	1.76	0.68
1:e:556:ASP:OD1	1:e:557:TYR:N	2.26	0.68
1:h:347:THR:HG22	1:h:649:ILE:HG13	1.76	0.68
1:m:437:MET:HE1	1:m:473:MET:HB3	1.76	0.68
1:m:499:ASN:OD1	1:m:500:ASN:N	2.26	0.68
1:o:692:GLU:HG3	1:o:734:LEU:HD13	1.76	0.68
1:q:347:THR:HG22	1:q:649:ILE:HG13	1.76	0.68
1:v:400:TYR:OH	1:1:298:ASP:OD2	2.11	0.68
1:w:347:THR:HG22	1:w:649:ILE:HG13	1.76	0.68
1:w:499:ASN:OD1	1:w:500:ASN:N	2.26	0.68
1:w:718:ASN:HD21	1:w:722:THR:HB	1.58	0.68
1:x:437:MET:HE1	1:x:473:MET:HB3	1.76	0.68
1:x:568:ILE:HD12	1:x:572:ASN:HD22	1.58	0.68
1:2:437:MET:HE1	1:2:473:MET:HB3	1.76	0.68
1:3:298:ASP:OD2	1:8:400:TYR:OH	2.10	0.68
1:5:437:MET:HE1	1:5:473:MET:HB3	1.76	0.68
1:5:499:ASN:OD1	1:5:500:ASN:N	2.26	0.68
1:A:400:TYR:OH	1:B:298:ASP:OD2	2.11	0.68
1:C:400:TYR:OH	1:D:298:ASP:OD2	2.11	0.68
1:D:347:THR:HG22	1:D:649:ILE:HG13	1.76	0.68
1:I:499:ASN:OD1	1:I:500:ASN:N	2.26	0.68
1:I:718:ASN:HD21	1:I:722:THR:HB	1.58	0.68
1:J:298:ASP:OD2	1:a:400:TYR:OH	2.11	0.68
1:K:347:THR:HG22	1:K:649:ILE:HG13	1.76	0.68
1:K:718:ASN:HD21	1:K:722:THR:HB	1.58	0.68
1:M:692:GLU:HG3	1:M:734:LEU:HD13	1.76	0.68
1:O:400:TYR:OH	1:d:298:ASP:OD2	2.11	0.68
1:R:568:ILE:HD12	1:R:572:ASN:HD22	1.58	0.68
1:S:347:THR:HG22	1:S:649:ILE:HG13	1.76	0.68
1:X:437:MET:HE1	1:X:473:MET:HB3	1.76	0.68
1:d:437:MET:HE1	1:d:473:MET:HB3	1.76	0.68
1:f:437:MET:HE1	1:f:473:MET:HB3	1.76	0.68
1:p:298:ASP:OD2	1:q:400:TYR:OH	2.11	0.68
1:q:499:ASN:OD1	1:q:500:ASN:N	2.26	0.68
1:r:556:ASP:OD1	1:r:557:TYR:N	2.26	0.68
1:y:556:ASP:OD1	1:y:557:TYR:N	2.26	0.68
1:3:556:ASP:OD1	1:3:557:TYR:N	2.26	0.68
1:6:347:THR:HG22	1:6:649:ILE:HG13	1.76	0.68
1:6:692:GLU:HG3	1:6:734:LEU:HD13	1.76	0.68
1:7:692:GLU:HG3	1:7:734:LEU:HD13	1.76	0.68
1:8:718:ASN:HD21	1:8:722:THR:HB	1.58	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:347:THR:HG22	1:A:649:ILE:HG13	1.76	0.68
1:D:718:ASN:HD21	1:D:722:THR:HB	1.58	0.68
1:I:568:ILE:HD12	1:I:572:ASN:HD22	1.58	0.68
1:J:692:GLU:HG3	1:J:734:LEU:HD13	1.76	0.68
1:P:718:ASN:HD21	1:P:722:THR:HB	1.58	0.68
1:W:347:THR:HG22	1:W:649:ILE:HG13	1.76	0.68
1:X:556:ASP:OD1	1:X:557:TYR:N	2.26	0.68
1:Y:556:ASP:OD1	1:Y:557:TYR:N	2.26	0.68
1:b:556:ASP:OD1	1:b:557:TYR:N	2.26	0.68
1:c:499:ASN:OD1	1:c:500:ASN:N	2.26	0.68
1:f:568:ILE:HD12	1:f:572:ASN:HD22	1.58	0.68
1:g:298:ASP:OD2	1:1:400:TYR:OH	2.11	0.68
1:j:437:MET:HE1	1:j:473:MET:HB3	1.76	0.68
1:j:568:ILE:HD12	1:j:572:ASN:HD22	1.58	0.68
1:u:556:ASP:OD1	1:u:557:TYR:N	2.26	0.68
1:w:556:ASP:OD1	1:w:557:TYR:N	2.26	0.68
1:4:692:GLU:HG3	1:4:734:LEU:HD13	1.76	0.68
1:8:692:GLU:HG3	1:8:734:LEU:HD13	1.76	0.68
1:E:692:GLU:HG3	1:E:734:LEU:HD13	1.76	0.68
1:F:437:MET:HE1	1:F:473:MET:HB3	1.76	0.68
1:N:298:ASP:OD2	1:m:400:TYR:OH	2.11	0.68
1:P:692:GLU:HG3	1:P:734:LEU:HD13	1.76	0.68
1:S:556:ASP:OD1	1:S:557:TYR:N	2.26	0.68
1:V:556:ASP:OD1	1:V:557:TYR:N	2.26	0.68
1:V:692:GLU:HG3	1:V:734:LEU:HD13	1.76	0.68
1:Z:400:TYR:OH	1:a:298:ASP:OD2	2.11	0.68
1:a:556:ASP:OD1	1:a:557:TYR:N	2.26	0.68
1:c:347:THR:HG22	1:c:649:ILE:HG13	1.76	0.68
1:j:298:ASP:OD2	1:x:400:TYR:OH	2.10	0.68
1:o:347:THR:HG22	1:o:649:ILE:HG13	1.76	0.68
1:p:400:TYR:OH	1:6:298:ASP:OD2	2.11	0.68
1:u:692:GLU:HG3	1:u:734:LEU:HD13	1.76	0.68
1:x:556:ASP:OD1	1:x:557:TYR:N	2.26	0.68
1:y:692:GLU:HG3	1:y:734:LEU:HD13	1.76	0.68
1:y:718:ASN:HD21	1:y:722:THR:HB	1.58	0.68
1:z:400:TYR:OH	1:4:298:ASP:OD2	2.11	0.68
1:I:347:THR:HG22	1:I:649:ILE:HG13	1.76	0.68
1:M:556:ASP:OD1	1:M:557:TYR:N	2.26	0.68
1:N:556:ASP:OD1	1:N:557:TYR:N	2.26	0.68
1:R:692:GLU:HG3	1:R:734:LEU:HD13	1.76	0.68
1:S:692:GLU:HG3	1:S:734:LEU:HD13	1.76	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:V:718:ASN:HD21	1:V:722:THR:HB	1.58	0.68
1:X:692:GLU:HG3	1:X:734:LEU:HD13	1.76	0.68
1:b:718:ASN:HD21	1:b:722:THR:HB	1.58	0.68
1:c:568:ILE:HD12	1:c:572:ASN:HD22	1.58	0.68
1:l:347:THR:HG22	1:l:649:ILE:HG13	1.76	0.68
1:l:556:ASP:OD1	1:l:557:TYR:N	2.26	0.68
1:n:718:ASN:HD21	1:n:722:THR:HB	1.58	0.68
1:t:692:GLU:HG3	1:t:734:LEU:HD13	1.76	0.68
1:y:568:ILE:HD12	1:y:572:ASN:HD22	1.58	0.68
1:z:692:GLU:HG3	1:z:734:LEU:HD13	1.76	0.68
1:4:718:ASN:HD21	1:4:722:THR:HB	1.58	0.68
1:6:437:MET:HE1	1:6:473:MET:HB3	1.76	0.68
1:B:718:ASN:HD21	1:B:722:THR:HB	1.58	0.68
1:C:718:ASN:HD21	1:C:722:THR:HB	1.58	0.68
1:J:556:ASP:OD1	1:J:557:TYR:N	2.26	0.68
1:O:298:ASP:OD2	1:P:400:TYR:OH	2.11	0.68
1:O:437:MET:HE1	1:O:473:MET:HB3	1.76	0.68
1:O:568:ILE:HD12	1:O:572:ASN:HD22	1.58	0.68
1:V:568:ILE:HD12	1:V:572:ASN:HD22	1.58	0.68
1:a:718:ASN:HD21	1:a:722:THR:HB	1.58	0.68
1:l:692:GLU:HG3	1:l:734:LEU:HD13	1.76	0.68
1:n:692:GLU:HG3	1:n:734:LEU:HD13	1.76	0.68
1:o:568:ILE:HD12	1:o:572:ASN:HD22	1.58	0.68
1:q:568:ILE:HD12	1:q:572:ASN:HD22	1.58	0.68
1:s:568:ILE:HD12	1:s:572:ASN:HD22	1.58	0.68
1:v:692:GLU:HG3	1:v:734:LEU:HD13	1.76	0.68
1:z:347:THR:HG22	1:z:649:ILE:HG13	1.76	0.68
1:z:556:ASP:OD1	1:z:557:TYR:N	2.26	0.68
1:1:692:GLU:HG3	1:1:734:LEU:HD13	1.76	0.68
1:3:568:ILE:HD12	1:3:572:ASN:HD22	1.58	0.68
1:5:692:GLU:HG3	1:5:734:LEU:HD13	1.76	0.68
1:6:718:ASN:HD21	1:6:722:THR:HB	1.58	0.68
1:F:298:ASP:OD2	1:G:400:TYR:OH	2.11	0.67
1:K:437:MET:HE1	1:K:473:MET:HB3	1.76	0.67
1:Q:556:ASP:OD1	1:Q:557:TYR:N	2.26	0.67
1:T:298:ASP:OD2	1:U:400:TYR:OH	2.11	0.67
1:U:692:GLU:HG3	1:U:734:LEU:HD13	1.76	0.67
1:V:347:THR:HG22	1:V:649:ILE:HG13	1.76	0.67
1:X:400:TYR:OH	1:f:298:ASP:OD2	2.11	0.67
1:i:568:ILE:HD12	1:i:572:ASN:HD22	1.58	0.67
1:l:258:TYR:OH	1:l:399:GLU:OE1	2.12	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:n:568:ILE:HD12	1:n:572:ASN:HD22	1.58	0.67
1:r:437:MET:HE1	1:r:473:MET:HB3	1.76	0.67
1:x:692:GLU:HG3	1:x:734:LEU:HD13	1.76	0.67
1:1:347:THR:HG22	1:1:649:ILE:HG13	1.76	0.67
1:5:556:ASP:OD1	1:5:557:TYR:N	2.26	0.67
1:5:718:ASN:HD21	1:5:722:THR:HB	1.58	0.67
1:F:718:ASN:HD21	1:F:722:THR:HB	1.58	0.67
1:G:437:MET:HE1	1:G:473:MET:HB3	1.76	0.67
1:H:568:ILE:HD12	1:H:572:ASN:HD22	1.58	0.67
1:L:718:ASN:HD21	1:L:722:THR:HB	1.58	0.67
1:N:718:ASN:HD21	1:N:722:THR:HB	1.58	0.67
1:Q:692:GLU:HG3	1:Q:734:LEU:HD13	1.76	0.67
1:R:258:TYR:OH	1:R:399:GLU:OE1	2.12	0.67
1:T:347:THR:HG22	1:T:649:ILE:HG13	1.76	0.67
1:T:400:TYR:OH	1:i:298:ASP:OD2	2.11	0.67
1:T:692:GLU:HG3	1:T:734:LEU:HD13	1.76	0.67
1:Y:437:MET:HE1	1:Y:473:MET:HB3	1.76	0.67
1:g:568:ILE:HD12	1:g:572:ASN:HD22	1.58	0.67
1:l:400:TYR:OH	1:n:298:ASP:OD2	2.11	0.67
1:l:437:MET:HE1	1:l:473:MET:HB3	1.76	0.67
1:z:437:MET:HE1	1:z:473:MET:HB3	1.76	0.67
1:3:437:MET:HE1	1:3:473:MET:HB3	1.76	0.67
1:B:437:MET:HE1	1:B:473:MET:HB3	1.76	0.67
1:D:437:MET:HE1	1:D:473:MET:HB3	1.76	0.67
1:S:718:ASN:HD21	1:S:722:THR:HB	1.58	0.67
1:V:350:GLU:OE1	1:V:352:GLN:NE2	2.28	0.67
1:Y:298:ASP:OD2	1:4:400:TYR:OH	2.11	0.67
1:Y:347:THR:HG22	1:Y:649:ILE:HG13	1.76	0.67
1:b:437:MET:HE1	1:b:473:MET:HB3	1.76	0.67
1:n:556:ASP:OD1	1:n:557:TYR:N	2.26	0.67
1:y:347:THR:HG22	1:y:649:ILE:HG13	1.76	0.67
1:2:247:THR:HB	1:2:372:VAL:HG22	1.77	0.67
1:4:556:ASP:OD1	1:4:557:TYR:N	2.26	0.67
1:4:568:ILE:HD12	1:4:572:ASN:HD22	1.58	0.67
1:A:437:MET:HE1	1:A:473:MET:HB3	1.76	0.67
1:A:568:ILE:HD12	1:A:572:ASN:HD22	1.58	0.67
1:E:247:THR:HB	1:E:372:VAL:HG22	1.77	0.67
1:K:258:TYR:OH	1:K:399:GLU:OE1	2.12	0.67
1:Q:718:ASN:HD21	1:Q:722:THR:HB	1.58	0.67
1:W:568:ILE:HD12	1:W:572:ASN:HD22	1.58	0.67
1:b:298:ASP:OD2	1:o:400:TYR:OH	2.11	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:d:247:THR:HB	1:d:372:VAL:HG22	1.77	0.67
1:p:437:MET:HE1	1:p:473:MET:HB3	1.76	0.67
1:p:556:ASP:OD1	1:p:557:TYR:N	2.26	0.67
1:t:258:TYR:OH	1:t:399:GLU:OE1	2.12	0.67
1:y:350:GLU:OE1	1:y:352:GLN:NE2	2.28	0.67
1:y:437:MET:HE1	1:y:473:MET:HB3	1.76	0.67
1:D:350:GLU:OE1	1:D:352:GLN:NE2	2.28	0.67
1:E:556:ASP:OD1	1:E:557:TYR:N	2.26	0.67
1:G:556:ASP:OD1	1:G:557:TYR:N	2.26	0.67
1:K:350:GLU:OE1	1:K:352:GLN:NE2	2.28	0.67
1:U:347:THR:HG22	1:U:649:ILE:HG13	1.76	0.67
1:b:247:THR:HB	1:b:372:VAL:HG22	1.77	0.67
1:i:692:GLU:HG3	1:i:734:LEU:HD13	1.76	0.67
1:m:692:GLU:HG3	1:m:734:LEU:HD13	1.76	0.67
1:o:437:MET:HE1	1:o:473:MET:HB3	1.76	0.67
1:r:347:THR:HG22	1:r:649:ILE:HG13	1.76	0.67
1:u:718:ASN:HD21	1:u:722:THR:HB	1.58	0.67
1:v:347:THR:HG22	1:v:649:ILE:HG13	1.76	0.67
1:7:247:THR:HB	1:7:372:VAL:HG22	1.77	0.67
1:7:556:ASP:OD1	1:7:557:TYR:N	2.26	0.67
1:B:247:THR:HB	1:B:372:VAL:HG22	1.77	0.67
1:G:347:THR:HG22	1:G:649:ILE:HG13	1.76	0.67
1:N:350:GLU:OE1	1:N:352:GLN:NE2	2.28	0.67
1:Q:247:THR:HB	1:Q:372:VAL:HG22	1.77	0.67
1:Q:350:GLU:OE1	1:Q:352:GLN:NE2	2.28	0.67
1:V:437:MET:HE1	1:V:473:MET:HB3	1.76	0.67
1:W:350:GLU:OE1	1:W:352:GLN:NE2	2.28	0.67
1:X:350:GLU:OE1	1:X:352:GLN:NE2	2.28	0.67
1:Z:692:GLU:HG3	1:Z:734:LEU:HD13	1.76	0.67
1:k:437:MET:HE1	1:k:473:MET:HB3	1.76	0.67
1:p:347:THR:HG22	1:p:649:ILE:HG13	1.76	0.67
1:t:347:THR:HG22	1:t:649:ILE:HG13	1.76	0.67
1:x:350:GLU:OE1	1:x:352:GLN:NE2	2.28	0.67
1:E:350:GLU:OE1	1:E:352:GLN:NE2	2.28	0.67
1:F:350:GLU:OE1	1:F:352:GLN:NE2	2.28	0.67
1:H:347:THR:HG22	1:H:649:ILE:HG13	1.76	0.67
1:I:298:ASP:OD2	1:J:400:TYR:OH	2.11	0.67
1:T:350:GLU:OE1	1:T:352:GLN:NE2	2.28	0.67
1:a:350:GLU:OE1	1:a:352:GLN:NE2	2.28	0.67
1:f:350:GLU:OE1	1:f:352:GLN:NE2	2.28	0.67
1:g:692:GLU:HG3	1:g:734:LEU:HD13	1.76	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:j:350:GLU:OE1	1:j:352:GLN:NE2	2.28	0.67
1:l:247:THR:HB	1:l:372:VAL:HG22	1.77	0.67
1:q:350:GLU:OE1	1:q:352:GLN:NE2	2.28	0.67
1:z:247:THR:HB	1:z:372:VAL:HG22	1.77	0.67
1:2:258:TYR:OH	1:2:399:GLU:OE1	2.12	0.67
1:5:247:THR:HB	1:5:372:VAL:HG22	1.77	0.67
1:5:350:GLU:OE1	1:5:352:GLN:NE2	2.28	0.67
1:7:350:GLU:OE1	1:7:352:GLN:NE2	2.28	0.67
1:M:247:THR:HB	1:M:372:VAL:HG22	1.77	0.67
1:M:350:GLU:OE1	1:M:352:GLN:NE2	2.28	0.67
1:N:437:MET:HE1	1:N:473:MET:HB3	1.76	0.67
1:R:347:THR:HG22	1:R:649:ILE:HG13	1.76	0.67
1:T:247:THR:HB	1:T:372:VAL:HG22	1.77	0.67
1:a:347:THR:HG22	1:a:649:ILE:HG13	1.76	0.67
1:b:347:THR:HG22	1:b:649:ILE:HG13	1.76	0.67
1:g:247:THR:HB	1:g:372:VAL:HG22	1.77	0.67
1:h:437:MET:HE1	1:h:473:MET:HB3	1.76	0.67
1:i:247:THR:HB	1:i:372:VAL:HG22	1.77	0.67
1:j:692:GLU:HG3	1:j:734:LEU:HD13	1.76	0.67
1:l:613:ASP:OD1	1:l:614:VAL:N	2.28	0.67
1:n:400:TYR:OH	1:r:298:ASP:OD2	2.11	0.67
1:r:692:GLU:HG3	1:r:734:LEU:HD13	1.76	0.67
1:s:347:THR:HG22	1:s:649:ILE:HG13	1.76	0.67
1:s:437:MET:HE1	1:s:473:MET:HB3	1.76	0.67
1:v:247:THR:HB	1:v:372:VAL:HG22	1.77	0.67
1:z:613:ASP:OD1	1:z:614:VAL:N	2.28	0.67
1:6:350:GLU:OE1	1:6:352:GLN:NE2	2.28	0.67
1:8:347:THR:HG22	1:8:649:ILE:HG13	1.76	0.67
1:B:347:THR:HG22	1:B:649:ILE:HG13	1.76	0.67
1:H:350:GLU:OE1	1:H:352:GLN:NE2	2.28	0.67
1:H:437:MET:HE1	1:H:473:MET:HB3	1.76	0.67
1:I:247:THR:HB	1:I:372:VAL:HG22	1.77	0.67
1:I:613:ASP:OD1	1:I:614:VAL:N	2.28	0.67
1:I:692:GLU:HG3	1:I:734:LEU:HD13	1.76	0.67
1:J:350:GLU:OE1	1:J:352:GLN:NE2	2.28	0.67
1:M:400:TYR:OH	1:c:298:ASP:OD2	2.11	0.67
1:N:692:GLU:HG3	1:N:734:LEU:HD13	1.76	0.67
1:R:247:THR:HB	1:R:372:VAL:HG22	1.77	0.67
1:T:437:MET:HE1	1:T:473:MET:HB3	1.76	0.67
1:U:247:THR:HB	1:U:372:VAL:HG22	1.77	0.67
1:W:613:ASP:OD1	1:W:614:VAL:N	2.28	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Y:692:GLU:HG3	1:Y:734:LEU:HD13	1.76	0.67
1:Z:258:TYR:OH	1:Z:399:GLU:OE1	2.12	0.67
1:a:437:MET:HE1	1:a:473:MET:HB3	1.76	0.67
1:a:692:GLU:HG3	1:a:734:LEU:HD13	1.76	0.67
1:d:258:TYR:OH	1:d:399:GLU:OE1	2.12	0.67
1:f:613:ASP:OD1	1:f:614:VAL:N	2.28	0.67
1:q:613:ASP:OD1	1:q:614:VAL:N	2.28	0.67
1:s:350:GLU:OE1	1:s:352:GLN:NE2	2.28	0.67
1:t:247:THR:HB	1:t:372:VAL:HG22	1.77	0.67
1:w:692:GLU:HG3	1:w:734:LEU:HD13	1.76	0.67
1:1:247:THR:HB	1:1:372:VAL:HG22	1.77	0.67
1:1:350:GLU:OE1	1:1:352:GLN:NE2	2.28	0.67
1:1:437:MET:HE1	1:1:473:MET:HB3	1.76	0.67
1:1:718:ASN:HD21	1:1:722:THR:HB	1.58	0.67
1:4:347:THR:HG22	1:4:649:ILE:HG13	1.76	0.67
1:A:613:ASP:OD1	1:A:614:VAL:N	2.28	0.67
1:H:692:GLU:HG3	1:H:734:LEU:HD13	1.76	0.67
1:I:350:GLU:OE1	1:I:352:GLN:NE2	2.28	0.67
1:J:247:THR:HB	1:J:372:VAL:HG22	1.77	0.67
1:N:347:THR:HG22	1:N:649:ILE:HG13	1.76	0.67
1:P:347:THR:HG22	1:P:649:ILE:HG13	1.76	0.67
1:Q:568:ILE:HD12	1:Q:572:ASN:HD22	1.58	0.67
1:V:247:THR:HB	1:V:372:VAL:HG22	1.77	0.67
1:Z:350:GLU:OE1	1:Z:352:GLN:NE2	2.28	0.67
1:c:247:THR:HB	1:c:372:VAL:HG22	1.77	0.67
1:c:350:GLU:OE1	1:c:352:GLN:NE2	2.28	0.67
1:c:613:ASP:OD1	1:c:614:VAL:N	2.28	0.67
1:d:613:ASP:OD1	1:d:614:VAL:N	2.28	0.67
1:d:692:GLU:HG3	1:d:734:LEU:HD13	1.76	0.67
1:e:350:GLU:OE1	1:e:352:GLN:NE2	2.28	0.67
1:e:613:ASP:OD1	1:e:614:VAL:N	2.28	0.67
1:e:692:GLU:HG3	1:e:734:LEU:HD13	1.76	0.67
1:f:692:GLU:HG3	1:f:734:LEU:HD13	1.76	0.67
1:h:298:ASP:OD2	1:i:400:TYR:OH	2.11	0.67
1:j:613:ASP:OD1	1:j:614:VAL:N	2.28	0.67
1:n:347:THR:HG22	1:n:649:ILE:HG13	1.76	0.67
1:w:613:ASP:OD1	1:w:614:VAL:N	2.28	0.67
1:z:350:GLU:OE1	1:z:352:GLN:NE2	2.28	0.67
1:2:613:ASP:OD1	1:2:614:VAL:N	2.28	0.67
1:3:613:ASP:OD1	1:3:614:VAL:N	2.28	0.67
1:C:350:GLU:OE1	1:C:352:GLN:NE2	2.28	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:350:GLU:OE1	1:L:352:GLN:NE2	2.28	0.66
1:O:613:ASP:OD1	1:O:614:VAL:N	2.28	0.66
1:O:692:GLU:HG3	1:O:734:LEU:HD13	1.76	0.66
1:U:437:MET:HE1	1:U:473:MET:HB3	1.76	0.66
1:Y:247:THR:HB	1:Y:372:VAL:HG22	1.77	0.66
1:c:692:GLU:HG3	1:c:734:LEU:HD13	1.76	0.66
1:f:347:THR:HG22	1:f:649:ILE:HG13	1.76	0.66
1:g:400:TYR:OH	1:k:298:ASP:OD2	2.11	0.66
1:j:347:THR:HG22	1:j:649:ILE:HG13	1.76	0.66
1:l:350:GLU:OE1	1:l:352:GLN:NE2	2.28	0.66
1:m:258:TYR:OH	1:m:399:GLU:OE1	2.12	0.66
1:o:613:ASP:OD1	1:o:614:VAL:N	2.28	0.66
1:u:350:GLU:OE1	1:u:352:GLN:NE2	2.28	0.66
1:w:350:GLU:OE1	1:w:352:GLN:NE2	2.28	0.66
1:y:247:THR:HB	1:y:372:VAL:HG22	1.77	0.66
1:2:692:GLU:HG3	1:2:734:LEU:HD13	1.76	0.66
1:3:692:GLU:HG3	1:3:734:LEU:HD13	1.76	0.66
1:4:258:TYR:OH	1:4:399:GLU:OE1	2.12	0.66
1:8:247:THR:HB	1:8:372:VAL:HG22	1.77	0.66
1:J:718:ASN:HD21	1:J:722:THR:HB	1.58	0.66
1:K:400:TYR:OH	1:7:298:ASP:OD2	2.11	0.66
1:P:247:THR:HB	1:P:372:VAL:HG22	1.77	0.66
1:R:437:MET:HE1	1:R:473:MET:HB3	1.76	0.66
1:R:613:ASP:OD1	1:R:614:VAL:N	2.28	0.66
1:S:350:GLU:OE1	1:S:352:GLN:NE2	2.28	0.66
1:T:718:ASN:HD21	1:T:722:THR:HB	1.58	0.66
1:i:350:GLU:OE1	1:i:352:GLN:NE2	2.28	0.66
1:i:437:MET:HE1	1:i:473:MET:HB3	1.76	0.66
1:m:350:GLU:OE1	1:m:352:GLN:NE2	2.28	0.66
1:n:437:MET:HE1	1:n:473:MET:HB3	1.76	0.66
1:r:247:THR:HB	1:r:372:VAL:HG22	1.77	0.66
1:s:692:GLU:HG3	1:s:734:LEU:HD13	1.76	0.66
1:t:437:MET:HE1	1:t:473:MET:HB3	1.76	0.66
1:t:613:ASP:OD1	1:t:614:VAL:N	2.28	0.66
1:3:247:THR:HB	1:3:372:VAL:HG22	1.77	0.66
1:4:247:THR:HB	1:4:372:VAL:HG22	1.77	0.66
1:5:568:ILE:HD12	1:5:572:ASN:HD22	1.58	0.66
1:7:437:MET:HE1	1:7:473:MET:HB3	1.76	0.66
1:B:350:GLU:OE1	1:B:352:GLN:NE2	2.28	0.66
1:C:437:MET:HE1	1:C:473:MET:HB3	1.76	0.66
1:D:400:TYR:OH	1:E:298:ASP:OD2	2.11	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:437:MET:HE1	1:E:473:MET:HB3	1.76	0.66
1:E:613:ASP:OD1	1:E:614:VAL:N	2.28	0.66
1:O:247:THR:HB	1:O:372:VAL:HG22	1.77	0.66
1:O:350:GLU:OE1	1:O:352:GLN:NE2	2.28	0.66
1:P:437:MET:HE1	1:P:473:MET:HB3	1.76	0.66
1:Q:347:THR:HG22	1:Q:649:ILE:HG13	1.76	0.66
1:Q:613:ASP:OD1	1:Q:614:VAL:N	2.28	0.66
1:S:613:ASP:OD1	1:S:614:VAL:N	2.28	0.66
1:g:437:MET:HE1	1:g:473:MET:HB3	1.76	0.66
1:n:258:TYR:OH	1:n:399:GLU:OE1	2.12	0.66
1:7:613:ASP:OD1	1:7:614:VAL:N	2.28	0.66
1:8:350:GLU:OE1	1:8:352:GLN:NE2	2.28	0.66
1:8:437:MET:HE1	1:8:473:MET:HB3	1.76	0.66
1:A:350:GLU:OE1	1:A:352:GLN:NE2	2.28	0.66
1:K:692:GLU:HG3	1:K:734:LEU:HD13	1.76	0.66
1:L:437:MET:HE1	1:L:473:MET:HB3	1.76	0.66
1:P:350:GLU:OE1	1:P:352:GLN:NE2	2.28	0.66
1:b:350:GLU:OE1	1:b:352:GLN:NE2	2.28	0.66
1:g:350:GLU:OE1	1:g:352:GLN:NE2	2.28	0.66
1:h:613:ASP:OD1	1:h:614:VAL:N	2.28	0.66
1:k:247:THR:HB	1:k:372:VAL:HG22	1.77	0.66
1:k:350:GLU:OE1	1:k:352:GLN:NE2	2.28	0.66
1:o:350:GLU:OE1	1:o:352:GLN:NE2	2.28	0.66
1:u:613:ASP:OD1	1:u:614:VAL:N	2.28	0.66
1:v:437:MET:HE1	1:v:473:MET:HB3	1.76	0.66
1:4:437:MET:HE1	1:4:473:MET:HB3	1.76	0.66
1:5:613:ASP:OD1	1:5:614:VAL:N	2.28	0.66
1:6:247:THR:HB	1:6:372:VAL:HG22	1.77	0.66
1:6:613:ASP:OD1	1:6:614:VAL:N	2.28	0.66
1:A:247:THR:HB	1:A:372:VAL:HG22	1.77	0.66
1:D:692:GLU:HG3	1:D:734:LEU:HD13	1.76	0.66
1:F:247:THR:HB	1:F:372:VAL:HG22	1.77	0.66
1:F:613:ASP:OD1	1:F:614:VAL:N	2.28	0.66
1:M:347:THR:HG22	1:M:649:ILE:HG13	1.76	0.66
1:P:613:ASP:OD1	1:P:614:VAL:N	2.28	0.66
1:S:437:MET:HE1	1:S:473:MET:HB3	1.76	0.66
1:X:613:ASP:OD1	1:X:614:VAL:N	2.28	0.66
1:d:350:GLU:OE1	1:d:352:GLN:NE2	2.28	0.66
1:h:350:GLU:OE1	1:h:352:GLN:NE2	2.28	0.66
1:k:613:ASP:OD1	1:k:614:VAL:N	2.28	0.66
1:n:247:THR:HB	1:n:372:VAL:HG22	1.77	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:o:247:THR:HB	1:o:372:VAL:HG22	1.77	0.66
1:u:437:MET:HE1	1:u:473:MET:HB3	1.76	0.66
1:3:350:GLU:OE1	1:3:352:GLN:NE2	2.28	0.66
1:8:613:ASP:OD1	1:8:614:VAL:N	2.28	0.66
1:A:258:TYR:OH	1:A:399:GLU:OE1	2.12	0.66
1:B:692:GLU:HG3	1:B:734:LEU:HD13	1.76	0.66
1:J:258:TYR:OH	1:J:399:GLU:OE1	2.12	0.66
1:M:718:ASN:HD21	1:M:722:THR:HB	1.58	0.66
1:Y:350:GLU:OE1	1:Y:352:GLN:NE2	2.28	0.66
1:h:247:THR:HB	1:h:372:VAL:HG22	1.77	0.66
1:x:613:ASP:OD1	1:x:614:VAL:N	2.28	0.66
1:2:350:GLU:OE1	1:2:352:GLN:NE2	2.28	0.66
1:5:347:THR:HG22	1:5:649:ILE:HG13	1.76	0.66
1:B:258:TYR:OH	1:B:399:GLU:OE1	2.12	0.66
1:D:247:THR:HB	1:D:372:VAL:HG22	1.77	0.66
1:G:350:GLU:OE1	1:G:352:GLN:NE2	2.28	0.66
1:H:613:ASP:OD1	1:H:614:VAL:N	2.28	0.66
1:L:613:ASP:OD1	1:L:614:VAL:N	2.28	0.66
1:O:258:TYR:OH	1:O:399:GLU:OE1	2.12	0.66
1:V:613:ASP:OD1	1:V:614:VAL:N	2.28	0.66
1:c:437:MET:HE1	1:c:473:MET:HB3	1.76	0.66
1:o:258:TYR:OH	1:o:399:GLU:OE1	2.12	0.66
1:r:350:GLU:OE1	1:r:352:GLN:NE2	2.28	0.66
1:s:613:ASP:OD1	1:s:614:VAL:N	2.28	0.66
1:3:258:TYR:OH	1:3:399:GLU:OE1	2.12	0.66
1:4:350:GLU:OE1	1:4:352:GLN:NE2	2.28	0.66
1:b:258:TYR:OH	1:b:399:GLU:OE1	2.12	0.66
1:e:247:THR:HB	1:e:372:VAL:HG22	1.77	0.66
1:p:350:GLU:OE1	1:p:352:GLN:NE2	2.28	0.66
1:u:247:THR:HB	1:u:372:VAL:HG22	1.77	0.66
1:y:613:ASP:OD1	1:y:614:VAL:N	2.28	0.66
1:C:613:ASP:OD1	1:C:614:VAL:N	2.28	0.66
1:F:258:TYR:OH	1:F:399:GLU:OE1	2.12	0.66
1:I:437:MET:HE1	1:I:473:MET:HB3	1.76	0.66
1:J:347:THR:HG22	1:J:649:ILE:HG13	1.76	0.66
1:N:247:THR:HB	1:N:372:VAL:HG22	1.77	0.66
1:N:613:ASP:OD1	1:N:614:VAL:N	2.28	0.66
1:U:350:GLU:OE1	1:U:352:GLN:NE2	2.28	0.66
1:W:247:THR:HB	1:W:372:VAL:HG22	1.77	0.66
1:a:247:THR:HB	1:a:372:VAL:HG22	1.77	0.66
1:a:613:ASP:OD1	1:a:614:VAL:N	2.28	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:b:692:GLU:HG3	1:b:734:LEU:HD13	1.76	0.66
1:m:613:ASP:OD1	1:m:614:VAL:N	2.28	0.66
1:n:350:GLU:OE1	1:n:352:GLN:NE2	2.28	0.66
1:q:247:THR:HB	1:q:372:VAL:HG22	1.77	0.66
1:v:350:GLU:OE1	1:v:352:GLN:NE2	2.28	0.66
1:K:247:THR:HB	1:K:372:VAL:HG22	1.77	0.66
1:M:258:TYR:OH	1:M:399:GLU:OE1	2.12	0.66
1:S:247:THR:HB	1:S:372:VAL:HG22	1.77	0.66
1:n:613:ASP:OD1	1:n:614:VAL:N	2.28	0.66
1:p:613:ASP:OD1	1:p:614:VAL:N	2.28	0.66
1:w:247:THR:HB	1:w:372:VAL:HG22	1.77	0.66
1:x:247:THR:HB	1:x:372:VAL:HG22	1.77	0.66
1:1:613:ASP:OD1	1:1:614:VAL:N	2.28	0.66
1:4:613:ASP:OD1	1:4:614:VAL:N	2.28	0.66
1:K:613:ASP:OD1	1:K:614:VAL:N	2.28	0.65
1:T:613:ASP:OD1	1:T:614:VAL:N	2.28	0.65
1:Z:613:ASP:OD1	1:Z:614:VAL:N	2.28	0.65
1:C:247:THR:HB	1:C:372:VAL:HG22	1.77	0.65
1:D:613:ASP:OD1	1:D:614:VAL:N	2.28	0.65
1:G:613:ASP:OD1	1:G:614:VAL:N	2.28	0.65
1:M:613:ASP:OD1	1:M:614:VAL:N	2.28	0.65
1:X:247:THR:HB	1:X:372:VAL:HG22	1.77	0.65
1:f:258:TYR:OH	1:f:399:GLU:OE1	2.12	0.65
1:i:613:ASP:OD1	1:i:614:VAL:N	2.28	0.65
1:t:350:GLU:OE1	1:t:352:GLN:NE2	2.28	0.65
1:v:613:ASP:OD1	1:v:614:VAL:N	2.28	0.65
1:6:258:TYR:OH	1:6:399:GLU:OE1	2.12	0.65
1:G:692:GLU:HG3	1:G:734:LEU:HD13	1.76	0.65
1:J:613:ASP:OD1	1:J:614:VAL:N	2.28	0.65
1:L:247:THR:HB	1:L:372:VAL:HG22	1.77	0.65
1:R:350:GLU:OE1	1:R:352:GLN:NE2	2.28	0.65
1:W:437:MET:HE1	1:W:473:MET:HB3	1.76	0.65
1:s:247:THR:HB	1:s:372:VAL:HG22	1.77	0.65
1:U:613:ASP:OD1	1:U:614:VAL:N	2.28	0.65
1:Z:247:THR:HB	1:Z:372:VAL:HG22	1.77	0.65
1:g:613:ASP:OD1	1:g:614:VAL:N	2.28	0.65
1:p:247:THR:HB	1:p:372:VAL:HG22	1.77	0.65
1:B:613:ASP:OD1	1:B:614:VAL:N	2.28	0.65
1:C:529:HIS:ND1	1:C:533:GLU:O	2.30	0.65
1:G:247:THR:HB	1:G:372:VAL:HG22	1.77	0.65
1:H:247:THR:HB	1:H:372:VAL:HG22	1.77	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:529:HIS:ND1	1:L:533:GLU:O	2.30	0.65
1:X:529:HIS:ND1	1:X:533:GLU:O	2.30	0.65
1:b:613:ASP:OD1	1:b:614:VAL:N	2.28	0.65
1:g:529:HIS:ND1	1:g:533:GLU:O	2.30	0.65
1:i:258:TYR:OH	1:i:399:GLU:OE1	2.12	0.65
1:j:258:TYR:OH	1:j:399:GLU:OE1	2.12	0.65
1:p:692:GLU:HG3	1:p:734:LEU:HD13	1.76	0.65
1:N:529:HIS:ND1	1:N:533:GLU:O	2.30	0.65
1:W:529:HIS:ND1	1:W:533:GLU:O	2.30	0.65
1:Y:613:ASP:OD1	1:Y:614:VAL:N	2.28	0.65
1:e:529:HIS:ND1	1:e:533:GLU:O	2.30	0.65
1:g:258:TYR:OH	1:g:399:GLU:OE1	2.12	0.65
1:h:529:HIS:ND1	1:h:533:GLU:O	2.30	0.65
1:i:529:HIS:ND1	1:i:533:GLU:O	2.30	0.65
1:k:529:HIS:ND1	1:k:533:GLU:O	2.30	0.65
1:o:529:HIS:ND1	1:o:533:GLU:O	2.30	0.65
1:q:437:MET:HE1	1:q:473:MET:HB3	1.76	0.65
1:q:529:HIS:ND1	1:q:533:GLU:O	2.30	0.65
1:r:529:HIS:ND1	1:r:533:GLU:O	2.30	0.65
1:r:613:ASP:OD1	1:r:614:VAL:N	2.28	0.65
1:w:529:HIS:ND1	1:w:533:GLU:O	2.30	0.65
1:x:529:HIS:ND1	1:x:533:GLU:O	2.30	0.65
1:A:529:HIS:ND1	1:A:533:GLU:O	2.30	0.65
1:S:529:HIS:ND1	1:S:533:GLU:O	2.30	0.65
1:V:529:HIS:ND1	1:V:533:GLU:O	2.30	0.65
1:Y:529:HIS:ND1	1:Y:533:GLU:O	2.30	0.65
1:a:529:HIS:ND1	1:a:533:GLU:O	2.30	0.65
1:q:258:TYR:OH	1:q:399:GLU:OE1	2.12	0.65
1:A:473:MET:HE1	1:G:275:TYR:HB3	1.79	0.65
1:D:529:HIS:ND1	1:D:533:GLU:O	2.30	0.65
1:H:529:HIS:ND1	1:H:533:GLU:O	2.30	0.65
1:m:247:THR:HB	1:m:372:VAL:HG22	1.77	0.65
1:u:529:HIS:ND1	1:u:533:GLU:O	2.30	0.65
1:y:529:HIS:ND1	1:y:533:GLU:O	2.30	0.65
1:E:492:SER:O	1:E:498:ASN:ND2	2.30	0.65
1:K:529:HIS:ND1	1:K:533:GLU:O	2.30	0.65
1:W:258:TYR:OH	1:W:399:GLU:OE1	2.12	0.65
1:j:247:THR:HB	1:j:372:VAL:HG22	1.77	0.65
1:2:529:HIS:ND1	1:2:533:GLU:O	2.30	0.65
1:3:529:HIS:ND1	1:3:533:GLU:O	2.30	0.65
1:G:529:HIS:ND1	1:G:533:GLU:O	2.30	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:O:529:HIS:ND1	1:O:533:GLU:O	2.30	0.65
1:U:529:HIS:ND1	1:U:533:GLU:O	2.30	0.65
1:W:492:SER:O	1:W:498:ASN:ND2	2.30	0.65
1:d:529:HIS:ND1	1:d:533:GLU:O	2.30	0.65
1:q:492:SER:O	1:q:498:ASN:ND2	2.30	0.65
1:s:529:HIS:ND1	1:s:533:GLU:O	2.30	0.65
1:v:529:HIS:ND1	1:v:533:GLU:O	2.30	0.65
1:y:492:SER:O	1:y:498:ASN:ND2	2.30	0.65
1:5:258:TYR:OH	1:5:399:GLU:OE1	2.12	0.65
1:7:492:SER:O	1:7:498:ASN:ND2	2.31	0.65
1:7:529:HIS:ND1	1:7:533:GLU:O	2.30	0.65
1:E:529:HIS:ND1	1:E:533:GLU:O	2.30	0.64
1:V:492:SER:O	1:V:498:ASN:ND2	2.31	0.64
1:4:529:HIS:ND1	1:4:533:GLU:O	2.30	0.64
1:5:529:HIS:ND1	1:5:533:GLU:O	2.30	0.64
1:6:529:HIS:ND1	1:6:533:GLU:O	2.30	0.64
1:A:406:LEU:HD12	1:A:406:LEU:N	2.13	0.64
1:F:529:HIS:ND1	1:F:533:GLU:O	2.30	0.64
1:N:406:LEU:HD12	1:N:406:LEU:N	2.13	0.64
1:O:406:LEU:HD12	1:O:406:LEU:N	2.13	0.64
1:Q:529:HIS:ND1	1:Q:533:GLU:O	2.30	0.64
1:R:406:LEU:HD12	1:R:406:LEU:N	2.13	0.64
1:a:406:LEU:HD12	1:a:406:LEU:N	2.13	0.64
1:f:247:THR:HB	1:f:372:VAL:HG22	1.77	0.64
1:l:529:HIS:ND1	1:l:533:GLU:O	2.30	0.64
1:n:529:HIS:ND1	1:n:533:GLU:O	2.30	0.64
1:p:529:HIS:ND1	1:p:533:GLU:O	2.30	0.64
1:t:406:LEU:HD12	1:t:406:LEU:N	2.13	0.64
1:z:529:HIS:ND1	1:z:533:GLU:O	2.30	0.64
1:6:492:SER:O	1:6:498:ASN:ND2	2.30	0.64
1:B:529:HIS:ND1	1:B:533:GLU:O	2.30	0.64
1:I:529:HIS:ND1	1:I:533:GLU:O	2.30	0.64
1:T:529:HIS:ND1	1:T:533:GLU:O	2.30	0.64
1:Y:492:SER:O	1:Y:498:ASN:ND2	2.30	0.64
1:b:529:HIS:ND1	1:b:533:GLU:O	2.30	0.64
1:o:406:LEU:HD12	1:o:406:LEU:N	2.13	0.64
1:s:406:LEU:HD12	1:s:406:LEU:N	2.13	0.64
1:u:258:TYR:OH	1:u:399:GLU:OE1	2.12	0.64
1:1:406:LEU:HD12	1:1:406:LEU:N	2.13	0.64
1:3:406:LEU:HD12	1:3:406:LEU:N	2.13	0.64
1:4:406:LEU:HD12	1:4:406:LEU:N	2.13	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:406:LEU:HD12	1:E:406:LEU:N	2.13	0.64
1:F:492:SER:O	1:F:498:ASN:ND2	2.31	0.64
1:G:406:LEU:HD12	1:G:406:LEU:N	2.13	0.64
1:H:406:LEU:HD12	1:H:406:LEU:N	2.13	0.64
1:J:529:HIS:ND1	1:J:533:GLU:O	2.30	0.64
1:M:406:LEU:HD12	1:M:406:LEU:N	2.13	0.64
1:P:529:HIS:ND1	1:P:533:GLU:O	2.30	0.64
1:Q:258:TYR:OH	1:Q:399:GLU:OE1	2.12	0.64
1:T:406:LEU:HD12	1:T:406:LEU:N	2.13	0.64
1:c:529:HIS:ND1	1:c:533:GLU:O	2.30	0.64
1:p:406:LEU:HD12	1:p:406:LEU:N	2.13	0.64
1:r:492:SER:O	1:r:498:ASN:ND2	2.30	0.64
1:t:529:HIS:ND1	1:t:533:GLU:O	2.30	0.64
1:z:396:TYR:OH	1:2:737:ASN:ND2	2.31	0.64
1:1:529:HIS:ND1	1:1:533:GLU:O	2.30	0.64
1:7:406:LEU:HD12	1:7:406:LEU:N	2.13	0.64
1:M:529:HIS:ND1	1:M:533:GLU:O	2.30	0.64
1:S:737:ASN:ND2	1:U:396:TYR:OH	2.31	0.64
1:X:258:TYR:OH	1:X:399:GLU:OE1	2.12	0.64
1:X:406:LEU:HD12	1:X:406:LEU:N	2.13	0.64
1:Y:406:LEU:HD12	1:Y:406:LEU:N	2.13	0.64
1:f:406:LEU:HD12	1:f:406:LEU:N	2.13	0.64
1:f:529:HIS:ND1	1:f:533:GLU:O	2.30	0.64
1:n:406:LEU:HD12	1:n:406:LEU:N	2.13	0.64
1:x:406:LEU:HD12	1:x:406:LEU:N	2.13	0.64
1:8:529:HIS:ND1	1:8:533:GLU:O	2.30	0.64
1:G:258:TYR:OH	1:G:399:GLU:OE1	2.12	0.64
1:P:696:ARG:HD3	1:P:700:GLU:OE2	1.98	0.64
1:R:529:HIS:ND1	1:R:533:GLU:O	2.30	0.64
1:S:258:TYR:OH	1:S:399:GLU:OE1	2.12	0.64
1:T:696:ARG:HD3	1:T:700:GLU:OE2	1.98	0.64
1:Y:258:TYR:OH	1:Y:399:GLU:OE1	2.12	0.64
1:g:696:ARG:HD3	1:g:700:GLU:OE2	1.98	0.64
1:j:406:LEU:HD12	1:j:406:LEU:N	2.13	0.64
1:j:529:HIS:ND1	1:j:533:GLU:O	2.30	0.64
1:n:696:ARG:HD3	1:n:700:GLU:OE2	1.98	0.64
1:r:406:LEU:HD12	1:r:406:LEU:N	2.13	0.64
1:w:258:TYR:OH	1:w:399:GLU:OE1	2.12	0.64
1:5:451:THR:HG21	1:6:503:PHE:CE2	2.33	0.64
1:8:696:ARG:HD3	1:8:700:GLU:OE2	1.98	0.64
1:D:696:ARG:HD3	1:D:700:GLU:OE2	1.98	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:406:LEU:HD12	1:J:406:LEU:N	2.13	0.64
1:J:696:ARG:HD3	1:J:700:GLU:OE2	1.98	0.64
1:i:696:ARG:HD3	1:i:700:GLU:OE2	1.98	0.64
1:n:492:SER:O	1:n:498:ASN:ND2	2.30	0.64
1:s:492:SER:O	1:s:498:ASN:ND2	2.30	0.64
1:y:696:ARG:HD3	1:y:700:GLU:OE2	1.98	0.64
1:z:696:ARG:HD3	1:z:700:GLU:OE2	1.98	0.64
1:1:696:ARG:HD3	1:1:700:GLU:OE2	1.98	0.64
1:4:492:SER:O	1:4:498:ASN:ND2	2.30	0.64
1:4:696:ARG:HD3	1:4:700:GLU:OE2	1.98	0.64
1:C:406:LEU:HD12	1:C:406:LEU:N	2.13	0.64
1:H:492:SER:O	1:H:498:ASN:ND2	2.30	0.64
1:K:696:ARG:HD3	1:K:700:GLU:OE2	1.98	0.64
1:M:696:ARG:HD3	1:M:700:GLU:OE2	1.98	0.64
1:Q:696:ARG:HD3	1:Q:700:GLU:OE2	1.98	0.64
1:V:696:ARG:HD3	1:V:700:GLU:OE2	1.98	0.64
1:Z:406:LEU:HD12	1:Z:406:LEU:N	2.13	0.64
1:Z:696:ARG:HD3	1:Z:700:GLU:OE2	1.98	0.64
1:e:406:LEU:HD12	1:e:406:LEU:N	2.13	0.64
1:l:406:LEU:HD12	1:l:406:LEU:N	2.13	0.64
1:l:696:ARG:HD3	1:l:700:GLU:OE2	1.98	0.64
1:m:696:ARG:HD3	1:m:700:GLU:OE2	1.98	0.64
1:r:659:ASP:OD2	1:x:333:LYS:NZ	2.31	0.64
1:x:258:TYR:OH	1:x:399:GLU:OE1	2.12	0.64
1:x:737:ASN:ND2	1:y:396:TYR:OH	2.31	0.64
1:A:737:ASN:ND2	1:G:396:TYR:OH	2.29	0.64
1:I:492:SER:O	1:I:498:ASN:ND2	2.30	0.64
1:L:406:LEU:HD12	1:L:406:LEU:N	2.13	0.64
1:X:696:ARG:HD3	1:X:700:GLU:OE2	1.98	0.64
1:b:696:ARG:HD3	1:b:700:GLU:OE2	1.98	0.64
1:i:503:PHE:CE2	1:k:451:THR:HG21	2.33	0.64
1:k:492:SER:O	1:k:498:ASN:ND2	2.30	0.64
1:m:406:LEU:HD12	1:m:406:LEU:N	2.13	0.64
1:m:492:SER:O	1:m:498:ASN:ND2	2.30	0.64
1:r:258:TYR:OH	1:r:399:GLU:OE1	2.12	0.64
1:w:406:LEU:HD12	1:w:406:LEU:N	2.13	0.64
1:x:696:ARG:HD3	1:x:700:GLU:OE2	1.98	0.64
1:5:659:ASP:OD2	1:8:333:LYS:NZ	2.31	0.64
1:5:696:ARG:HD3	1:5:700:GLU:OE2	1.98	0.64
1:B:696:ARG:HD3	1:B:700:GLU:OE2	1.98	0.64
1:W:406:LEU:HD12	1:W:406:LEU:N	2.13	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:b:406:LEU:HD12	1:b:406:LEU:N	2.13	0.64
1:c:492:SER:O	1:c:498:ASN:ND2	2.30	0.64
1:d:737:ASN:ND2	1:l:396:TYR:OH	2.31	0.64
1:e:258:TYR:OH	1:e:399:GLU:OE1	2.12	0.64
1:h:492:SER:O	1:h:498:ASN:ND2	2.30	0.64
1:p:258:TYR:OH	1:p:399:GLU:OE1	2.12	0.64
1:q:406:LEU:HD12	1:q:406:LEU:N	2.13	0.64
1:z:406:LEU:HD12	1:z:406:LEU:N	2.13	0.64
1:3:503:PHE:CE2	1:4:451:THR:HG21	2.33	0.64
1:5:492:SER:O	1:5:498:ASN:ND2	2.30	0.64
1:B:406:LEU:HD12	1:B:406:LEU:N	2.13	0.63
1:R:492:SER:O	1:R:498:ASN:ND2	2.30	0.63
1:R:696:ARG:HD3	1:R:700:GLU:OE2	1.98	0.63
1:U:406:LEU:HD12	1:U:406:LEU:N	2.13	0.63
1:Y:254:ASN:O	1:Y:255:ASN:C	2.42	0.63
1:Z:492:SER:O	1:Z:498:ASN:ND2	2.30	0.63
1:h:254:ASN:O	1:h:255:ASN:C	2.42	0.63
1:i:406:LEU:HD12	1:i:406:LEU:N	2.13	0.63
1:m:737:ASN:ND2	1:n:396:TYR:OH	2.31	0.63
1:s:696:ARG:HD3	1:s:700:GLU:OE2	1.98	0.63
1:w:451:THR:HG21	1:x:503:PHE:CE2	2.33	0.63
1:1:737:ASN:ND2	1:2:396:TYR:OH	2.31	0.63
1:2:254:ASN:O	1:2:255:ASN:C	2.42	0.63
1:B:659:ASP:OD2	1:C:333:LYS:NZ	2.31	0.63
1:F:659:ASP:OD2	1:R:333:LYS:NZ	2.31	0.63
1:K:477:ALA:HA	1:a:521:ASN:HB3	1.81	0.63
1:L:333:LYS:NZ	1:b:659:ASP:OD2	2.31	0.63
1:M:396:TYR:OH	1:b:737:ASN:ND2	2.32	0.63
1:N:254:ASN:O	1:N:255:ASN:C	2.42	0.63
1:P:333:LYS:NZ	1:Q:659:ASP:OD2	2.32	0.63
1:P:406:LEU:HD12	1:P:406:LEU:N	2.13	0.63
1:Q:492:SER:O	1:Q:498:ASN:ND2	2.30	0.63
1:T:396:TYR:OH	1:l:737:ASN:ND2	2.31	0.63
1:T:659:ASP:OD2	1:i:333:LYS:NZ	2.31	0.63
1:Z:451:THR:HG21	1:4:503:PHE:CE2	2.33	0.63
1:a:254:ASN:O	1:a:255:ASN:C	2.42	0.63
1:d:254:ASN:O	1:d:255:ASN:C	2.42	0.63
1:d:492:SER:O	1:d:498:ASN:ND2	2.31	0.63
1:g:406:LEU:HD12	1:g:406:LEU:N	2.13	0.63
1:g:503:PHE:CE2	1:h:451:THR:HG21	2.34	0.63
1:k:254:ASN:O	1:k:255:ASN:C	2.42	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:k:659:ASP:OD2	1:w:333:LYS:NZ	2.31	0.63
1:n:254:ASN:O	1:n:255:ASN:C	2.42	0.63
1:p:492:SER:O	1:p:498:ASN:ND2	2.30	0.63
1:r:254:ASN:O	1:r:255:ASN:C	2.42	0.63
1:t:696:ARG:HD3	1:t:700:GLU:OE2	1.98	0.63
1:u:451:THR:HG21	1:v:503:PHE:CE2	2.33	0.63
1:v:406:LEU:HD12	1:v:406:LEU:N	2.13	0.63
1:2:492:SER:O	1:2:498:ASN:ND2	2.30	0.63
1:H:696:ARG:HD3	1:H:700:GLU:OE2	1.98	0.63
1:K:492:SER:O	1:K:498:ASN:ND2	2.30	0.63
1:a:451:THR:HG21	1:8:503:PHE:CE2	2.34	0.63
1:a:696:ARG:HD3	1:a:700:GLU:OE2	1.98	0.63
1:f:451:THR:HG21	1:h:503:PHE:CE2	2.34	0.63
1:h:406:LEU:HD12	1:h:406:LEU:N	2.13	0.63
1:k:406:LEU:HD12	1:k:406:LEU:N	2.13	0.63
1:k:696:ARG:HD3	1:k:700:GLU:OE2	1.98	0.63
1:l:254:ASN:O	1:l:255:ASN:C	2.42	0.63
1:r:477:ALA:HA	1:s:521:ASN:HB3	1.81	0.63
1:y:406:LEU:HD12	1:y:406:LEU:N	2.13	0.63
1:D:396:TYR:OH	1:P:737:ASN:ND2	2.32	0.63
1:D:492:SER:O	1:D:498:ASN:ND2	2.31	0.63
1:H:258:TYR:OH	1:H:399:GLU:OE1	2.12	0.63
1:K:396:TYR:OH	1:8:737:ASN:ND2	2.32	0.63
1:N:696:ARG:HD3	1:N:700:GLU:OE2	1.98	0.63
1:O:333:LYS:NZ	1:P:659:ASP:OD2	2.32	0.63
1:O:492:SER:O	1:O:498:ASN:ND2	2.31	0.63
1:R:396:TYR:OH	1:U:737:ASN:ND2	2.31	0.63
1:S:406:LEU:HD12	1:S:406:LEU:N	2.13	0.63
1:T:492:SER:O	1:T:498:ASN:ND2	2.30	0.63
1:V:396:TYR:OH	1:X:737:ASN:ND2	2.32	0.63
1:W:696:ARG:HD3	1:W:700:GLU:OE2	1.98	0.63
1:g:492:SER:O	1:g:498:ASN:ND2	2.30	0.63
1:i:492:SER:O	1:i:498:ASN:ND2	2.31	0.63
1:o:451:THR:HG21	1:p:503:PHE:CE2	2.33	0.63
1:s:258:TYR:OH	1:s:399:GLU:OE1	2.12	0.63
1:t:492:SER:O	1:t:498:ASN:ND2	2.31	0.63
1:u:406:LEU:HD12	1:u:406:LEU:N	2.13	0.63
1:u:696:ARG:HD3	1:u:700:GLU:OE2	1.98	0.63
1:1:473:MET:HE1	1:2:275:TYR:HB3	1.81	0.63
1:1:492:SER:O	1:1:498:ASN:ND2	2.30	0.63
1:2:406:LEU:HD12	1:2:406:LEU:N	2.13	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:8:254:ASN:O	1:8:255:ASN:C	2.42	0.63
1:8:406:LEU:HD12	1:8:406:LEU:N	2.13	0.63
1:C:492:SER:O	1:C:498:ASN:ND2	2.30	0.63
1:G:473:MET:HE1	1:I:275:TYR:HB3	1.80	0.63
1:G:492:SER:O	1:G:498:ASN:ND2	2.30	0.63
1:L:696:ARG:HD3	1:L:700:GLU:OE2	1.98	0.63
1:O:503:PHE:CE2	1:n:451:THR:HG21	2.34	0.63
1:O:659:ASP:OD2	1:d:333:LYS:NZ	2.32	0.63
1:P:254:ASN:O	1:P:255:ASN:C	2.42	0.63
1:S:696:ARG:HD3	1:S:700:GLU:OE2	1.98	0.63
1:V:406:LEU:HD12	1:V:406:LEU:N	2.13	0.63
1:Z:529:HIS:ND1	1:Z:533:GLU:O	2.30	0.63
1:b:492:SER:O	1:b:498:ASN:ND2	2.30	0.63
1:d:406:LEU:HD12	1:d:406:LEU:N	2.13	0.63
1:e:333:LYS:NZ	1:h:659:ASP:OD2	2.32	0.63
1:h:696:ARG:HD3	1:h:700:GLU:OE2	1.98	0.63
1:m:333:LYS:NZ	1:s:659:ASP:OD2	2.32	0.63
1:o:492:SER:O	1:o:498:ASN:ND2	2.31	0.63
1:t:333:LYS:NZ	1:6:659:ASP:OD2	2.32	0.63
1:3:492:SER:O	1:3:498:ASN:ND2	2.30	0.63
1:8:492:SER:O	1:8:498:ASN:ND2	2.30	0.63
1:A:492:SER:O	1:A:498:ASN:ND2	2.30	0.63
1:B:492:SER:O	1:B:498:ASN:ND2	2.31	0.63
1:F:503:PHE:CE2	1:Q:451:THR:HG21	2.34	0.63
1:G:696:ARG:HD3	1:G:700:GLU:OE2	1.98	0.63
1:H:254:ASN:O	1:H:255:ASN:C	2.42	0.63
1:H:521:ASN:HB3	1:Y:477:ALA:HA	1.81	0.63
1:H:659:ASP:OD2	1:Z:333:LYS:NZ	2.32	0.63
1:L:492:SER:O	1:L:498:ASN:ND2	2.30	0.63
1:S:254:ASN:O	1:S:255:ASN:C	2.42	0.63
1:V:477:ALA:HA	1:e:521:ASN:HB3	1.81	0.63
1:X:333:LYS:NZ	1:Y:659:ASP:OD2	2.32	0.63
1:q:696:ARG:HD3	1:q:700:GLU:OE2	1.98	0.63
1:t:396:TYR:OH	1:v:737:ASN:ND2	2.32	0.63
1:u:254:ASN:O	1:u:255:ASN:C	2.42	0.63
1:w:477:ALA:HA	1:x:521:ASN:HB3	1.80	0.63
1:5:477:ALA:HA	1:6:521:ASN:HB3	1.81	0.63
1:C:696:ARG:HD3	1:C:700:GLU:OE2	1.98	0.63
1:D:477:ALA:HA	1:N:521:ASN:HB3	1.81	0.63
1:K:503:PHE:CE2	1:8:451:THR:HG21	2.34	0.63
1:P:492:SER:O	1:P:498:ASN:ND2	2.30	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:f:254:ASN:O	1:f:255:ASN:C	2.42	0.63
1:i:254:ASN:O	1:i:255:ASN:C	2.42	0.63
1:m:529:HIS:ND1	1:m:533:GLU:O	2.30	0.63
1:n:659:ASP:OD2	1:r:333:LYS:NZ	2.32	0.63
1:o:473:MET:HE1	1:p:275:TYR:HB3	1.81	0.63
1:p:254:ASN:O	1:p:255:ASN:C	2.42	0.63
1:r:451:THR:HG21	1:s:503:PHE:CE2	2.33	0.63
1:s:254:ASN:O	1:s:255:ASN:C	2.42	0.63
1:w:521:ASN:HB3	1:y:477:ALA:HA	1.81	0.63
1:z:737:ASN:ND2	1:1:396:TYR:OH	2.32	0.63
1:3:333:LYS:NZ	1:8:659:ASP:OD2	2.32	0.63
1:6:451:THR:HG21	1:7:503:PHE:CE2	2.34	0.63
1:B:477:ALA:HA	1:J:521:ASN:HB3	1.81	0.63
1:C:659:ASP:OD2	1:D:333:LYS:NZ	2.31	0.63
1:C:737:ASN:ND2	1:b:396:TYR:OH	2.32	0.63
1:D:254:ASN:O	1:D:255:ASN:C	2.42	0.63
1:D:406:LEU:HD12	1:D:406:LEU:N	2.13	0.63
1:E:503:PHE:CE2	1:F:451:THR:HG21	2.34	0.63
1:F:396:TYR:OH	1:Q:737:ASN:ND2	2.31	0.63
1:F:696:ARG:HD3	1:F:700:GLU:OE2	1.98	0.63
1:G:254:ASN:O	1:G:255:ASN:C	2.42	0.63
1:T:254:ASN:O	1:T:255:ASN:C	2.42	0.63
1:X:275:TYR:HB3	1:e:473:MET:HE1	1.81	0.63
1:a:258:TYR:OH	1:a:399:GLU:OE1	2.12	0.63
1:d:451:THR:HG21	1:l:503:PHE:CE2	2.34	0.63
1:g:254:ASN:O	1:g:255:ASN:C	2.42	0.63
1:j:254:ASN:O	1:j:255:ASN:C	2.42	0.63
1:p:696:ARG:HD3	1:p:700:GLU:OE2	1.98	0.63
1:t:503:PHE:CE2	1:v:451:THR:HG21	2.34	0.63
1:t:737:ASN:ND2	1:u:396:TYR:OH	2.31	0.63
1:w:492:SER:O	1:w:498:ASN:ND2	2.31	0.63
1:2:696:ARG:HD3	1:2:700:GLU:OE2	1.98	0.63
1:3:254:ASN:O	1:3:255:ASN:C	2.42	0.63
1:3:696:ARG:HD3	1:3:700:GLU:OE2	1.98	0.63
1:5:521:ASN:HB3	1:7:477:ALA:HA	1.81	0.63
1:6:696:ARG:HD3	1:6:700:GLU:OE2	1.98	0.63
1:B:396:TYR:OH	1:L:737:ASN:ND2	2.32	0.63
1:C:503:PHE:CE2	1:M:451:THR:HG21	2.34	0.63
1:D:503:PHE:CE2	1:P:451:THR:HG21	2.34	0.63
1:E:254:ASN:O	1:E:255:ASN:C	2.42	0.63
1:E:521:ASN:HB3	1:F:477:ALA:HA	1.81	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:451:THR:HG21	1:W:503:PHE:CE2	2.33	0.63
1:J:254:ASN:O	1:J:255:ASN:C	2.42	0.63
1:J:451:THR:HG21	1:L:503:PHE:CE2	2.34	0.63
1:K:254:ASN:O	1:K:255:ASN:C	2.42	0.63
1:K:451:THR:HG21	1:a:503:PHE:CE2	2.34	0.63
1:M:521:ASN:HB3	1:b:477:ALA:HA	1.81	0.63
1:O:254:ASN:O	1:O:255:ASN:C	2.42	0.63
1:O:477:ALA:HA	1:m:521:ASN:HB3	1.81	0.63
1:Q:406:LEU:HD12	1:Q:406:LEU:N	2.13	0.63
1:R:451:THR:HG21	1:S:503:PHE:CE2	2.33	0.63
1:R:477:ALA:HA	1:S:521:ASN:HB3	1.81	0.63
1:W:451:THR:HG21	1:Y:503:PHE:CE2	2.34	0.63
1:Y:696:ARG:HD3	1:Y:700:GLU:OE2	1.98	0.63
1:Z:254:ASN:O	1:Z:255:ASN:C	2.42	0.63
1:Z:521:ASN:HB3	1:3:477:ALA:HA	1.81	0.63
1:c:473:MET:HE1	1:o:275:TYR:HB3	1.81	0.63
1:c:737:ASN:ND2	1:o:396:TYR:OH	2.31	0.63
1:d:696:ARG:HD3	1:d:700:GLU:OE2	1.98	0.63
1:e:492:SER:O	1:e:498:ASN:ND2	2.30	0.63
1:f:477:ALA:HA	1:h:521:ASN:HB3	1.80	0.63
1:f:696:ARG:HD3	1:f:700:GLU:OE2	1.98	0.63
1:g:396:TYR:OH	1:h:737:ASN:ND2	2.31	0.63
1:q:451:THR:HG21	1:r:503:PHE:CE2	2.34	0.63
1:r:696:ARG:HD3	1:r:700:GLU:OE2	1.98	0.63
1:w:396:TYR:OH	1:y:737:ASN:ND2	2.32	0.63
1:1:254:ASN:O	1:1:255:ASN:C	2.42	0.63
1:5:503:PHE:CE2	1:7:451:THR:HG21	2.34	0.63
1:7:254:ASN:O	1:7:255:ASN:C	2.42	0.63
1:B:503:PHE:CE2	1:L:451:THR:HG21	2.33	0.62
1:N:451:THR:HG21	1:P:503:PHE:CE2	2.34	0.62
1:O:696:ARG:HD3	1:O:700:GLU:OE2	1.98	0.62
1:X:503:PHE:CE2	1:e:451:THR:HG21	2.34	0.62
1:a:477:ALA:HA	1:8:521:ASN:HB3	1.81	0.62
1:c:451:THR:HG21	1:o:503:PHE:CE2	2.34	0.62
1:f:275:TYR:HB3	1:g:473:MET:HE1	1.81	0.62
1:o:696:ARG:HD3	1:o:700:GLU:OE2	1.98	0.62
1:u:333:LYS:NZ	1:2:659:ASP:OD2	2.31	0.62
1:v:333:LYS:NZ	1:w:659:ASP:OD2	2.31	0.62
1:x:254:ASN:O	1:x:255:ASN:C	2.42	0.62
1:A:396:TYR:OH	1:I:737:ASN:ND2	2.32	0.62
1:C:451:THR:HG21	1:b:503:PHE:CE2	2.33	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:737:ASN:ND2	1:N:396:TYR:OH	2.31	0.62
1:F:521:ASN:HB3	1:Q:477:ALA:HA	1.81	0.62
1:K:333:LYS:NZ	1:L:659:ASP:OD2	2.32	0.62
1:M:254:ASN:O	1:M:255:ASN:C	2.42	0.62
1:R:659:ASP:OD2	1:V:333:LYS:NZ	2.31	0.62
1:S:492:SER:O	1:S:498:ASN:ND2	2.30	0.62
1:T:451:THR:HG21	1:d:503:PHE:CE2	2.34	0.62
1:V:737:ASN:ND2	1:e:396:TYR:OH	2.32	0.62
1:X:254:ASN:O	1:X:255:ASN:C	2.42	0.62
1:Y:333:LYS:NZ	1:4:659:ASP:OD2	2.32	0.62
1:Z:737:ASN:ND2	1:4:396:TYR:OH	2.32	0.62
1:b:333:LYS:NZ	1:o:659:ASP:OD2	2.32	0.62
1:c:406:LEU:HD12	1:c:406:LEU:N	2.13	0.62
1:c:503:PHE:CE2	1:p:451:THR:HG21	2.35	0.62
1:e:696:ARG:HD3	1:e:700:GLU:OE2	1.98	0.62
1:i:521:ASN:HB3	1:k:477:ALA:HA	1.81	0.62
1:j:451:THR:HG21	1:k:503:PHE:CE2	2.34	0.62
1:j:696:ARG:HD3	1:j:700:GLU:OE2	1.98	0.62
1:m:254:ASN:O	1:m:255:ASN:C	2.42	0.62
1:t:451:THR:HG21	1:u:503:PHE:CE2	2.34	0.62
1:t:473:MET:HE1	1:u:275:TYR:HB3	1.81	0.62
1:u:492:SER:O	1:u:498:ASN:ND2	2.30	0.62
1:v:696:ARG:HD3	1:v:700:GLU:OE2	1.98	0.62
1:z:275:TYR:HB3	1:2:473:MET:HE1	1.80	0.62
1:z:451:THR:HG21	1:1:503:PHE:CE2	2.33	0.62
1:z:659:ASP:OD2	1:4:333:LYS:NZ	2.31	0.62
1:5:406:LEU:HD12	1:5:406:LEU:N	2.13	0.62
1:6:477:ALA:HA	1:7:521:ASN:HB3	1.81	0.62
1:6:737:ASN:ND2	1:7:396:TYR:OH	2.31	0.62
1:A:521:ASN:HB3	1:I:477:ALA:HA	1.80	0.62
1:F:406:LEU:HD12	1:F:406:LEU:N	2.13	0.62
1:H:503:PHE:CE2	1:Y:451:THR:HG21	2.33	0.62
1:K:406:LEU:HD12	1:K:406:LEU:N	2.13	0.62
1:N:477:ALA:HA	1:P:521:ASN:HB3	1.81	0.62
1:O:451:THR:HG21	1:m:503:PHE:CE2	2.34	0.62
1:Z:503:PHE:CE2	1:3:451:THR:HG21	2.34	0.62
1:c:275:TYR:HB3	1:p:473:MET:HE1	1.81	0.62
1:j:737:ASN:ND2	1:k:396:TYR:OH	2.31	0.62
1:t:477:ALA:HA	1:u:521:ASN:HB3	1.81	0.62
1:w:696:ARG:HD3	1:w:700:GLU:OE2	1.98	0.62
1:6:406:LEU:HD12	1:6:406:LEU:N	2.13	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:696:ARG:HD3	1:A:700:GLU:OE2	1.98	0.62
1:C:258:TYR:OH	1:C:399:GLU:OE1	2.12	0.62
1:E:477:ALA:HA	1:Q:521:ASN:HB3	1.81	0.62
1:I:406:LEU:HD12	1:I:406:LEU:N	2.13	0.62
1:R:737:ASN:ND2	1:S:396:TYR:OH	2.32	0.62
1:S:451:THR:HG21	1:U:503:PHE:CE2	2.35	0.62
1:i:477:ALA:HA	1:j:521:ASN:HB3	1.81	0.62
1:m:451:THR:HG21	1:n:503:PHE:CE2	2.34	0.62
1:u:477:ALA:HA	1:v:521:ASN:HB3	1.81	0.62
1:D:451:THR:HG21	1:N:503:PHE:CE2	2.34	0.62
1:F:275:TYR:HB3	1:Q:473:MET:HE1	1.81	0.62
1:I:254:ASN:O	1:I:255:ASN:C	2.42	0.62
1:K:737:ASN:ND2	1:a:396:TYR:OH	2.32	0.62
1:L:258:TYR:OH	1:L:399:GLU:OE1	2.12	0.62
1:N:258:TYR:OH	1:N:399:GLU:OE1	2.12	0.62
1:U:696:ARG:HD3	1:U:700:GLU:OE2	1.98	0.62
1:V:659:ASP:OD2	1:W:333:LYS:NZ	2.32	0.62
1:W:473:MET:HE1	1:Y:275:TYR:HB3	1.82	0.62
1:c:254:ASN:O	1:c:255:ASN:C	2.42	0.62
1:q:503:PHE:CE2	1:s:451:THR:HG21	2.34	0.62
1:t:659:ASP:OD2	1:y:333:LYS:NZ	2.32	0.62
1:5:737:ASN:ND2	1:6:396:TYR:OH	2.32	0.62
1:D:521:ASN:HB3	1:P:477:ALA:HA	1.81	0.62
1:E:451:THR:HG21	1:Q:503:PHE:CE2	2.34	0.62
1:I:258:TYR:OH	1:I:399:GLU:OE1	2.12	0.62
1:K:275:TYR:HB3	1:8:473:MET:HE1	1.82	0.62
1:O:521:ASN:HB3	1:n:477:ALA:HA	1.81	0.62
1:O:737:ASN:ND2	1:m:396:TYR:OH	2.32	0.62
1:R:473:MET:HE1	1:S:275:TYR:HB3	1.82	0.62
1:R:503:PHE:CE2	1:U:451:THR:HG21	2.34	0.62
1:T:737:ASN:ND2	1:d:396:TYR:OH	2.32	0.62
1:W:254:ASN:O	1:W:255:ASN:C	2.42	0.62
1:Z:396:TYR:OH	1:3:737:ASN:ND2	2.32	0.62
1:c:696:ARG:HD3	1:c:700:GLU:OE2	1.98	0.62
1:g:521:ASN:HB3	1:h:477:ALA:HA	1.81	0.62
1:i:396:TYR:OH	1:k:737:ASN:ND2	2.32	0.62
1:i:473:MET:HE1	1:j:275:TYR:HB3	1.82	0.62
1:l:659:ASP:OD2	1:n:333:LYS:NZ	2.32	0.62
1:u:659:ASP:OD2	1:5:333:LYS:NZ	2.31	0.62
1:2:333:LYS:NZ	1:3:659:ASP:OD2	2.33	0.62
1:3:521:ASN:HB3	1:4:477:ALA:HA	1.81	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:451:THR:HG21	1:J:503:PHE:CE2	2.34	0.62
1:D:275:TYR:HB3	1:P:473:MET:HE1	1.82	0.62
1:E:396:TYR:OH	1:F:737:ASN:ND2	2.32	0.62
1:H:333:LYS:NZ	1:I:659:ASP:OD2	2.32	0.62
1:I:696:ARG:HD3	1:I:700:GLU:OE2	1.98	0.62
1:T:477:ALA:HA	1:d:521:ASN:HB3	1.80	0.62
1:V:451:THR:HG21	1:e:503:PHE:CE2	2.34	0.62
1:c:521:ASN:HB3	1:p:477:ALA:HA	1.81	0.62
1:i:451:THR:HG21	1:j:503:PHE:CE2	2.34	0.62
1:o:477:ALA:HA	1:p:521:ASN:HB3	1.81	0.62
1:q:254:ASN:O	1:q:255:ASN:C	2.42	0.62
1:q:473:MET:HE1	1:r:275:TYR:HB3	1.82	0.62
1:t:521:ASN:HB3	1:v:477:ALA:HA	1.81	0.62
1:v:492:SER:O	1:v:498:ASN:ND2	2.30	0.62
1:w:275:TYR:HB3	1:y:473:MET:HE1	1.82	0.62
1:z:477:ALA:HA	1:1:521:ASN:HB3	1.80	0.62
1:F:254:ASN:O	1:F:255:ASN:C	2.42	0.62
1:K:521:ASN:HB3	1:8:477:ALA:HA	1.81	0.62
1:M:503:PHE:CE2	1:b:451:THR:HG21	2.34	0.62
1:U:333:LYS:NZ	1:e:659:ASP:OD2	2.32	0.62
1:V:503:PHE:CE2	1:X:451:THR:HG21	2.34	0.62
1:W:477:ALA:HA	1:Y:521:ASN:HB3	1.81	0.62
1:c:258:TYR:OH	1:c:399:GLU:OE1	2.12	0.62
1:c:659:ASP:OD2	1:s:333:LYS:NZ	2.32	0.62
1:p:333:LYS:NZ	1:q:659:ASP:OD2	2.32	0.62
1:q:477:ALA:HA	1:r:521:ASN:HB3	1.81	0.62
1:x:451:THR:HG21	1:y:503:PHE:CE2	2.34	0.62
1:1:451:THR:HG21	1:2:503:PHE:CE2	2.34	0.62
1:7:696:ARG:HD3	1:7:700:GLU:OE2	1.98	0.62
1:A:503:PHE:CE2	1:I:451:THR:HG21	2.34	0.62
1:C:275:TYR:HB3	1:M:473:MET:HE1	1.82	0.62
1:C:477:ALA:HA	1:b:521:ASN:HB3	1.81	0.62
1:U:492:SER:O	1:U:498:ASN:ND2	2.30	0.62
1:X:521:ASN:HB3	1:e:477:ALA:HA	1.81	0.62
1:Z:477:ALA:HA	1:4:521:ASN:HB3	1.80	0.62
1:f:396:TYR:OH	1:g:737:ASN:ND2	2.31	0.62
1:f:521:ASN:HB3	1:g:477:ALA:HA	1.81	0.62
1:v:254:ASN:O	1:v:255:ASN:C	2.42	0.62
1:w:503:PHE:CE2	1:y:451:THR:HG21	2.34	0.62
1:6:254:ASN:O	1:6:255:ASN:C	2.42	0.62
1:7:258:TYR:OH	1:7:399:GLU:OE1	2.12	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:8:258:TYR:OH	1:8:399:GLU:OE1	2.12	0.62
1:A:275:TYR:HB3	1:I:473:MET:HE1	1.82	0.62
1:B:521:ASN:HB3	1:L:477:ALA:HA	1.81	0.62
1:E:696:ARG:HD3	1:E:700:GLU:OE2	1.98	0.62
1:J:473:MET:HE1	1:L:275:TYR:HB3	1.82	0.62
1:R:521:ASN:HB3	1:U:477:ALA:HA	1.81	0.62
1:S:477:ALA:HA	1:U:521:ASN:HB3	1.81	0.62
1:U:254:ASN:O	1:U:255:ASN:C	2.42	0.62
1:U:258:TYR:OH	1:U:399:GLU:OE1	2.12	0.62
1:V:473:MET:HE1	1:e:275:TYR:HB3	1.82	0.62
1:Z:307:TRP:O	1:Z:426:SER:OG	2.18	0.62
1:j:477:ALA:HA	1:k:521:ASN:HB3	1.82	0.62
1:l:492:SER:O	1:l:498:ASN:ND2	2.30	0.62
1:m:307:TRP:O	1:m:426:SER:OG	2.18	0.62
1:t:307:TRP:O	1:t:426:SER:OG	2.18	0.62
1:z:492:SER:O	1:z:498:ASN:ND2	2.30	0.62
1:E:258:TYR:OH	1:E:399:GLU:OE1	2.12	0.61
1:S:333:LYS:NZ	1:d:659:ASP:OD2	2.32	0.61
1:V:254:ASN:O	1:V:255:ASN:C	2.42	0.61
1:V:258:TYR:OH	1:V:399:GLU:OE1	2.12	0.61
1:Z:531:ASP:OD1	1:Z:569:LYS:NZ	2.28	0.61
1:f:659:ASP:OD2	1:z:333:LYS:NZ	2.31	0.61
1:g:275:TYR:HB3	1:h:473:MET:HE1	1.81	0.61
1:q:333:LYS:NZ	1:y:659:ASP:OD2	2.32	0.61
1:w:473:MET:HE1	1:x:275:TYR:HB3	1.82	0.61
1:y:258:TYR:OH	1:y:399:GLU:OE1	2.12	0.61
1:5:473:MET:HE1	1:6:275:TYR:HB3	1.82	0.61
1:6:473:MET:HE1	1:7:275:TYR:HB3	1.81	0.61
1:C:521:ASN:HB3	1:M:477:ALA:HA	1.81	0.61
1:O:473:MET:HE1	1:m:275:TYR:HB3	1.82	0.61
1:P:253:TYR:CE1	1:P:377:GLN:HB2	2.36	0.61
1:P:258:TYR:OH	1:P:399:GLU:OE1	2.12	0.61
1:T:503:PHE:CE2	1:l:451:THR:HG21	2.34	0.61
1:W:253:TYR:CE1	1:W:377:GLN:HB2	2.36	0.61
1:Z:275:TYR:HB3	1:3:473:MET:HE1	1.82	0.61
1:c:477:ALA:HA	1:o:521:ASN:HB3	1.81	0.61
1:f:492:SER:O	1:f:498:ASN:ND2	2.31	0.61
1:i:253:TYR:CE1	1:i:377:GLN:HB2	2.36	0.61
1:q:253:TYR:CE1	1:q:377:GLN:HB2	2.35	0.61
1:w:253:TYR:CE1	1:w:377:GLN:HB2	2.36	0.61
1:C:307:TRP:O	1:C:426:SER:OG	2.18	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:473:MET:HE1	1:N:275:TYR:HB3	1.82	0.61
1:D:659:ASP:OD2	1:E:333:LYS:NZ	2.32	0.61
1:G:451:THR:HG21	1:I:503:PHE:CE2	2.36	0.61
1:K:253:TYR:CE1	1:K:377:GLN:HB2	2.36	0.61
1:L:307:TRP:O	1:L:426:SER:OG	2.18	0.61
1:T:521:ASN:HB3	1:l:477:ALA:HA	1.81	0.61
1:U:253:TYR:CE1	1:U:377:GLN:HB2	2.36	0.61
1:X:253:TYR:CE1	1:X:377:GLN:HB2	2.36	0.61
1:e:253:TYR:CE1	1:e:377:GLN:HB2	2.36	0.61
1:g:253:TYR:CE1	1:g:377:GLN:HB2	2.36	0.61
1:h:253:TYR:CE1	1:h:377:GLN:HB2	2.36	0.61
1:i:737:ASN:ND2	1:j:396:TYR:OH	2.32	0.61
1:j:492:SER:O	1:j:498:ASN:ND2	2.31	0.61
1:q:275:TYR:HB3	1:s:473:MET:HE1	1.81	0.61
1:v:253:TYR:CE1	1:v:377:GLN:HB2	2.36	0.61
1:y:254:ASN:O	1:y:255:ASN:C	2.42	0.61
1:5:254:ASN:O	1:5:255:ASN:C	2.42	0.61
1:8:253:TYR:CE1	1:8:377:GLN:HB2	2.36	0.61
1:D:253:TYR:CE1	1:D:377:GLN:HB2	2.36	0.61
1:E:473:MET:HE1	1:Q:275:TYR:HB3	1.82	0.61
1:J:333:LYS:NZ	1:a:659:ASP:OD2	2.32	0.61
1:J:477:ALA:HA	1:L:521:ASN:HB3	1.81	0.61
1:L:253:TYR:CE1	1:L:377:GLN:HB2	2.36	0.61
1:N:253:TYR:CE1	1:N:377:GLN:HB2	2.36	0.61
1:Q:254:ASN:O	1:Q:255:ASN:C	2.42	0.61
1:R:275:TYR:HB3	1:U:473:MET:HE1	1.82	0.61
1:S:473:MET:HE1	1:U:275:TYR:HB3	1.81	0.61
1:T:275:TYR:HB3	1:l:473:MET:HE1	1.81	0.61
1:V:521:ASN:HB3	1:X:477:ALA:HA	1.81	0.61
1:b:253:TYR:CE1	1:b:377:GLN:HB2	2.36	0.61
1:f:503:PHE:CE2	1:g:451:THR:HG21	2.34	0.61
1:k:253:TYR:CE1	1:k:377:GLN:HB2	2.36	0.61
1:m:473:MET:HE1	1:n:275:TYR:HB3	1.81	0.61
1:m:531:ASP:OD1	1:m:569:LYS:NZ	2.28	0.61
1:o:333:LYS:NZ	1:7:659:ASP:OD2	2.32	0.61
1:t:275:TYR:HB3	1:v:473:MET:HE1	1.82	0.61
1:v:258:TYR:OH	1:v:399:GLU:OE1	2.12	0.61
1:x:253:TYR:CE1	1:x:377:GLN:HB2	2.36	0.61
1:2:253:TYR:CE1	1:2:377:GLN:HB2	2.35	0.61
1:A:333:LYS:NZ	1:E:659:ASP:OD2	2.32	0.61
1:A:659:ASP:OD2	1:B:333:LYS:NZ	2.33	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:253:TYR:CE1	1:B:377:GLN:HB2	2.36	0.61
1:C:253:TYR:CE1	1:C:377:GLN:HB2	2.36	0.61
1:H:396:TYR:OH	1:Y:737:ASN:ND2	2.32	0.61
1:I:333:LYS:NZ	1:J:659:ASP:OD2	2.32	0.61
1:K:473:MET:HE1	1:a:275:TYR:HB3	1.82	0.61
1:K:659:ASP:OD2	1:7:333:LYS:NZ	2.32	0.61
1:M:659:ASP:OD2	1:c:333:LYS:NZ	2.32	0.61
1:T:473:MET:HE1	1:d:275:TYR:HB3	1.82	0.61
1:f:737:ASN:ND2	1:h:396:TYR:OH	2.32	0.61
1:j:659:ASP:OD2	1:l:333:LYS:NZ	2.32	0.61
1:z:307:TRP:O	1:z:426:SER:OG	2.18	0.61
1:G:737:ASN:ND2	1:I:396:TYR:OH	2.30	0.61
1:J:492:SER:O	1:J:498:ASN:ND2	2.30	0.61
1:Z:253:TYR:CE1	1:Z:377:GLN:HB2	2.36	0.61
1:a:253:TYR:CE1	1:a:377:GLN:HB2	2.36	0.61
1:d:253:TYR:CE1	1:d:377:GLN:HB2	2.36	0.61
1:l:307:TRP:O	1:l:426:SER:OG	2.18	0.61
1:o:307:TRP:O	1:o:426:SER:OG	2.18	0.61
1:x:477:ALA:HA	1:y:521:ASN:HB3	1.81	0.61
1:E:275:TYR:HB3	1:F:473:MET:HE1	1.82	0.61
1:E:307:TRP:O	1:E:426:SER:OG	2.18	0.61
1:G:333:LYS:NZ	1:W:659:ASP:OD2	2.33	0.61
1:M:253:TYR:CE1	1:M:377:GLN:HB2	2.35	0.61
1:N:473:MET:HE1	1:P:275:TYR:HB3	1.82	0.61
1:Q:333:LYS:NZ	1:S:659:ASP:OD2	2.32	0.61
1:a:492:SER:O	1:a:498:ASN:ND2	2.30	0.61
1:b:254:ASN:O	1:b:255:ASN:C	2.42	0.61
1:c:253:TYR:CE1	1:c:377:GLN:HB2	2.36	0.61
1:j:473:MET:HE1	1:k:275:TYR:HB3	1.81	0.61
1:5:275:TYR:HB3	1:7:473:MET:HE1	1.82	0.61
1:H:477:ALA:HA	1:W:521:ASN:HB3	1.80	0.61
1:I:253:TYR:CE1	1:I:377:GLN:HB2	2.36	0.61
1:J:253:TYR:CE1	1:J:377:GLN:HB2	2.36	0.61
1:L:254:ASN:O	1:L:255:ASN:C	2.42	0.61
1:M:275:TYR:HB3	1:b:473:MET:HE1	1.82	0.61
1:M:307:TRP:O	1:M:426:SER:OG	2.18	0.61
1:N:492:SER:O	1:N:498:ASN:ND2	2.30	0.61
1:R:254:ASN:O	1:R:255:ASN:C	2.42	0.61
1:S:253:TYR:CE1	1:S:377:GLN:HB2	2.36	0.61
1:W:737:ASN:ND2	1:Y:396:TYR:OH	2.32	0.61
1:d:473:MET:HE1	1:l:275:TYR:HB3	1.82	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:i:275:TYR:HB3	1:k:473:MET:HE1	1.82	0.61
1:m:253:TYR:CE1	1:m:377:GLN:HB2	2.36	0.61
1:m:477:ALA:HA	1:n:521:ASN:HB3	1.81	0.61
1:o:737:ASN:ND2	1:p:396:TYR:OH	2.31	0.61
1:r:737:ASN:ND2	1:s:396:TYR:OH	2.32	0.61
1:u:253:TYR:CE1	1:u:377:GLN:HB2	2.36	0.61
1:z:253:TYR:CE1	1:z:377:GLN:HB2	2.36	0.61
1:z:503:PHE:CE2	1:2:451:THR:HG21	2.35	0.61
1:3:396:TYR:OH	1:4:737:ASN:ND2	2.32	0.61
1:7:253:TYR:CE1	1:7:377:GLN:HB2	2.35	0.61
1:B:254:ASN:O	1:B:255:ASN:C	2.42	0.61
1:B:473:MET:HE1	1:J:275:TYR:HB3	1.82	0.61
1:G:225:SER:CA	1:W:407:ARG:HD2	2.31	0.61
1:M:492:SER:O	1:M:498:ASN:ND2	2.30	0.61
1:O:396:TYR:OH	1:n:737:ASN:ND2	2.32	0.61
1:T:253:TYR:CE1	1:T:377:GLN:HB2	2.35	0.61
1:V:253:TYR:CE1	1:V:377:GLN:HB2	2.36	0.61
1:Z:659:ASP:OD2	1:a:333:LYS:NZ	2.31	0.61
1:d:477:ALA:HA	1:l:521:ASN:HB3	1.81	0.61
1:l:253:TYR:CE1	1:l:377:GLN:HB2	2.35	0.61
1:p:253:TYR:CE1	1:p:377:GLN:HB2	2.35	0.61
1:r:253:TYR:CE1	1:r:377:GLN:HB2	2.36	0.61
1:x:492:SER:O	1:x:498:ASN:ND2	2.31	0.61
1:5:253:TYR:CE1	1:5:377:GLN:HB2	2.35	0.61
1:C:254:ASN:O	1:C:255:ASN:C	2.42	0.61
1:D:258:TYR:OH	1:D:399:GLU:OE1	2.12	0.61
1:E:253:TYR:CE1	1:E:377:GLN:HB2	2.36	0.61
1:G:253:TYR:CE1	1:G:377:GLN:HB2	2.36	0.61
1:H:473:MET:HE1	1:W:275:TYR:HB3	1.82	0.61
1:Q:253:TYR:CE1	1:Q:377:GLN:HB2	2.36	0.61
1:Y:253:TYR:CE1	1:Y:377:GLN:HB2	2.36	0.61
1:t:254:ASN:O	1:t:255:ASN:C	2.42	0.61
1:y:253:TYR:CE1	1:y:377:GLN:HB2	2.36	0.61
1:y:407:ARG:O	1:y:409:GLY:N	2.34	0.61
1:1:477:ALA:HA	1:2:521:ASN:HB3	1.82	0.61
1:6:307:TRP:O	1:6:426:SER:OG	2.18	0.61
1:E:407:ARG:O	1:E:409:GLY:N	2.34	0.60
1:E:737:ASN:ND2	1:Q:396:TYR:OH	2.31	0.60
1:F:307:TRP:O	1:F:426:SER:OG	2.18	0.60
1:V:407:ARG:O	1:V:409:GLY:N	2.34	0.60
1:X:492:SER:O	1:X:498:ASN:ND2	2.31	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:a:473:MET:HE1	1:8:275:TYR:HB3	1.82	0.60
1:m:407:ARG:O	1:m:409:GLY:N	2.34	0.60
1:q:737:ASN:ND2	1:r:396:TYR:OH	2.32	0.60
1:r:307:TRP:O	1:r:426:SER:OG	2.18	0.60
1:t:253:TYR:CE1	1:t:377:GLN:HB2	2.36	0.60
1:t:407:ARG:O	1:t:409:GLY:N	2.34	0.60
1:u:307:TRP:O	1:u:426:SER:OG	2.18	0.60
1:1:253:TYR:CE1	1:1:377:GLN:HB2	2.36	0.60
1:7:407:ARG:O	1:7:409:GLY:N	2.34	0.60
1:G:477:ALA:HA	1:I:521:ASN:HB3	1.83	0.60
1:N:333:LYS:NZ	1:m:659:ASP:OD2	2.32	0.60
1:R:253:TYR:CE1	1:R:377:GLN:HB2	2.36	0.60
1:U:407:ARG:O	1:U:409:GLY:N	2.34	0.60
1:Z:407:ARG:O	1:Z:409:GLY:N	2.34	0.60
1:s:407:ARG:O	1:s:409:GLY:N	2.34	0.60
1:v:407:ARG:O	1:v:409:GLY:N	2.34	0.60
1:w:254:ASN:O	1:w:255:ASN:C	2.42	0.60
1:z:473:MET:HE1	1:1:275:TYR:HB3	1.82	0.60
1:6:253:TYR:CE1	1:6:377:GLN:HB2	2.36	0.60
1:A:451:THR:HG21	1:G:503:PHE:CE2	2.36	0.60
1:F:253:TYR:CE1	1:F:377:GLN:HB2	2.36	0.60
1:G:407:ARG:O	1:G:409:GLY:N	2.34	0.60
1:O:407:ARG:O	1:O:409:GLY:N	2.34	0.60
1:R:407:ARG:O	1:R:409:GLY:N	2.34	0.60
1:b:307:TRP:O	1:b:426:SER:OG	2.18	0.60
1:q:521:ASN:HB3	1:s:477:ALA:HA	1.81	0.60
1:3:407:ARG:O	1:3:409:GLY:N	2.34	0.60
1:4:407:ARG:O	1:4:409:GLY:N	2.34	0.60
1:5:396:TYR:OH	1:7:737:ASN:ND2	2.32	0.60
1:C:407:ARG:O	1:C:409:GLY:N	2.34	0.60
1:H:407:ARG:O	1:H:409:GLY:N	2.34	0.60
1:M:333:LYS:NZ	1:N:659:ASP:OD2	2.32	0.60
1:N:737:ASN:ND2	1:P:396:TYR:OH	2.32	0.60
1:O:253:TYR:CE1	1:O:377:GLN:HB2	2.35	0.60
1:T:258:TYR:OH	1:T:399:GLU:OE1	2.12	0.60
1:c:396:TYR:OH	1:p:737:ASN:ND2	2.31	0.60
1:e:254:ASN:O	1:e:255:ASN:C	2.42	0.60
1:n:253:TYR:CE1	1:n:377:GLN:HB2	2.36	0.60
1:n:407:ARG:O	1:n:409:GLY:N	2.34	0.60
1:o:253:TYR:CE1	1:o:377:GLN:HB2	2.35	0.60
1:p:407:ARG:O	1:p:409:GLY:N	2.34	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:s:253:TYR:CE1	1:s:377:GLN:HB2	2.36	0.60
1:u:407:ARG:O	1:u:409:GLY:N	2.34	0.60
1:3:253:TYR:CE1	1:3:377:GLN:HB2	2.36	0.60
1:A:253:TYR:CE1	1:A:377:GLN:HB2	2.36	0.60
1:B:307:TRP:O	1:B:426:SER:OG	2.18	0.60
1:H:253:TYR:CE1	1:H:377:GLN:HB2	2.36	0.60
1:H:275:TYR:HB3	1:Y:473:MET:HE1	1.82	0.60
1:L:407:ARG:O	1:L:409:GLY:N	2.34	0.60
1:T:407:ARG:O	1:T:409:GLY:N	2.34	0.60
1:Z:473:MET:HE1	1:4:275:TYR:HB3	1.83	0.60
1:j:253:TYR:CE1	1:j:377:GLN:HB2	2.36	0.60
1:u:473:MET:HE1	1:v:275:TYR:HB3	1.82	0.60
1:x:473:MET:HE1	1:y:275:TYR:HB3	1.82	0.60
1:1:407:ARG:O	1:1:409:GLY:N	2.34	0.60
1:4:253:TYR:CE1	1:4:377:GLN:HB2	2.36	0.60
1:S:407:ARG:O	1:S:409:GLY:N	2.34	0.60
1:X:396:TYR:OH	1:e:737:ASN:ND2	2.31	0.60
1:i:407:ARG:O	1:i:409:GLY:N	2.34	0.60
1:r:473:MET:HE1	1:s:275:TYR:HB3	1.82	0.60
1:z:521:ASN:HB3	1:2:477:ALA:HA	1.82	0.60
1:J:407:ARG:O	1:J:409:GLY:N	2.34	0.60
1:M:407:ARG:O	1:M:409:GLY:N	2.34	0.60
1:Q:407:ARG:O	1:Q:409:GLY:N	2.34	0.60
1:X:659:ASP:OD2	1:f:333:LYS:NZ	2.32	0.60
1:b:407:ARG:O	1:b:409:GLY:N	2.34	0.60
1:f:253:TYR:CE1	1:f:377:GLN:HB2	2.36	0.60
1:g:407:ARG:O	1:g:409:GLY:N	2.34	0.60
1:h:333:LYS:NZ	1:i:659:ASP:OD2	2.31	0.60
1:n:307:TRP:O	1:n:426:SER:OG	2.18	0.60
1:1:258:TYR:OH	1:1:399:GLU:OE1	2.12	0.60
1:A:440:LEU:HD11	1:G:279:SER:HB2	1.84	0.60
1:B:407:ARG:O	1:B:409:GLY:N	2.34	0.60
1:C:473:MET:HE1	1:b:275:TYR:HB3	1.82	0.60
1:X:407:ARG:O	1:X:409:GLY:N	2.34	0.60
1:d:407:ARG:O	1:d:409:GLY:N	2.34	0.60
1:f:473:MET:HE1	1:h:275:TYR:HB3	1.82	0.60
1:2:407:ARG:O	1:2:409:GLY:N	2.34	0.60
1:3:275:TYR:HB3	1:4:473:MET:HE1	1.82	0.60
1:5:407:ARG:O	1:5:409:GLY:N	2.34	0.60
1:O:511:TYR:HD2	1:O:520:VAL:HG22	1.67	0.60
1:P:407:ARG:O	1:P:409:GLY:N	2.34	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:V:511:TYR:HD2	1:V:520:VAL:HG22	1.67	0.60
1:e:407:ARG:O	1:e:409:GLY:N	2.34	0.60
1:n:511:TYR:HD2	1:n:520:VAL:HG22	1.67	0.60
1:p:307:TRP:O	1:p:426:SER:OG	2.18	0.60
1:z:254:ASN:O	1:z:255:ASN:C	2.42	0.60
1:z:407:ARG:O	1:z:409:GLY:N	2.34	0.60
1:3:511:TYR:HD2	1:3:520:VAL:HG22	1.67	0.60
1:A:254:ASN:O	1:A:255:ASN:C	2.42	0.60
1:A:477:ALA:HA	1:G:521:ASN:HB3	1.83	0.60
1:D:407:ARG:O	1:D:409:GLY:N	2.34	0.60
1:V:275:TYR:HB3	1:X:473:MET:HE1	1.82	0.60
1:X:254:ASN:O	1:X:257:LEU:N	2.35	0.60
1:a:407:ARG:O	1:a:409:GLY:N	2.34	0.60
1:a:737:ASN:ND2	1:8:396:TYR:OH	2.32	0.60
1:j:333:LYS:NZ	1:x:659:ASP:OD2	2.32	0.60
1:q:407:ARG:O	1:q:409:GLY:N	2.34	0.60
1:w:407:ARG:O	1:w:409:GLY:N	2.34	0.60
1:y:511:TYR:HD2	1:y:520:VAL:HG22	1.67	0.60
1:4:511:TYR:HD2	1:4:520:VAL:HG22	1.67	0.60
1:6:531:ASP:OD1	1:6:569:LYS:NZ	2.28	0.60
1:8:407:ARG:O	1:8:409:GLY:N	2.34	0.60
1:G:511:TYR:HD2	1:G:520:VAL:HG22	1.67	0.59
1:K:407:ARG:O	1:K:409:GLY:N	2.34	0.59
1:N:407:ARG:O	1:N:409:GLY:N	2.34	0.59
1:W:407:ARG:O	1:W:409:GLY:N	2.34	0.59
1:i:511:TYR:HD2	1:i:520:VAL:HG22	1.67	0.59
1:j:407:ARG:O	1:j:409:GLY:N	2.34	0.59
1:l:407:ARG:O	1:l:409:GLY:N	2.34	0.59
1:x:254:ASN:O	1:x:257:LEU:N	2.35	0.59
1:x:407:ARG:O	1:x:409:GLY:N	2.35	0.59
1:B:275:TYR:HB3	1:L:473:MET:HE1	1.82	0.59
1:G:355:TYR:CZ	1:G:357:LEU:HB2	2.38	0.59
1:M:254:ASN:O	1:M:257:LEU:N	2.35	0.59
1:N:511:TYR:HD2	1:N:520:VAL:HG22	1.67	0.59
1:O:275:TYR:HB3	1:n:473:MET:HE1	1.82	0.59
1:a:511:TYR:HD2	1:a:520:VAL:HG22	1.67	0.59
1:f:407:ARG:O	1:f:409:GLY:N	2.34	0.59
1:h:407:ARG:O	1:h:409:GLY:N	2.34	0.59
1:p:355:TYR:CZ	1:p:357:LEU:HB2	2.38	0.59
1:p:511:TYR:HD2	1:p:520:VAL:HG22	1.67	0.59
1:t:531:ASP:OD1	1:t:569:LYS:NZ	2.28	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:355:TYR:CZ	1:A:357:LEU:HB2	2.38	0.59
1:F:588:GLN:N	1:F:591:THR:OG1	2.36	0.59
1:K:307:TRP:O	1:K:426:SER:OG	2.18	0.59
1:T:588:GLN:N	1:T:591:THR:OG1	2.36	0.59
1:U:254:ASN:O	1:U:257:LEU:N	2.35	0.59
1:U:307:TRP:O	1:U:426:SER:OG	2.18	0.59
1:W:355:TYR:CZ	1:W:357:LEU:HB2	2.38	0.59
1:W:511:TYR:HD2	1:W:520:VAL:HG22	1.67	0.59
1:Y:407:ARG:O	1:Y:409:GLY:N	2.34	0.59
1:b:355:TYR:CZ	1:b:357:LEU:HB2	2.38	0.59
1:c:407:ARG:O	1:c:409:GLY:N	2.34	0.59
1:g:511:TYR:HD2	1:g:520:VAL:HG22	1.67	0.59
1:k:258:TYR:OH	1:k:399:GLU:OE1	2.12	0.59
1:k:407:ARG:O	1:k:409:GLY:N	2.34	0.59
1:n:355:TYR:CZ	1:n:357:LEU:HB2	2.38	0.59
1:o:254:ASN:O	1:o:255:ASN:C	2.42	0.59
1:o:254:ASN:O	1:o:257:LEU:N	2.35	0.59
1:o:355:TYR:CZ	1:o:357:LEU:HB2	2.38	0.59
1:o:407:ARG:O	1:o:409:GLY:N	2.34	0.59
1:q:355:TYR:CZ	1:q:357:LEU:HB2	2.38	0.59
1:q:511:TYR:HD2	1:q:520:VAL:HG22	1.67	0.59
1:r:407:ARG:O	1:r:409:GLY:N	2.34	0.59
1:v:307:TRP:O	1:v:426:SER:OG	2.18	0.59
1:w:588:GLN:N	1:w:591:THR:OG1	2.36	0.59
1:4:355:TYR:CZ	1:4:357:LEU:HB2	2.38	0.59
1:6:407:ARG:O	1:6:409:GLY:N	2.34	0.59
1:B:355:TYR:CZ	1:B:357:LEU:HB2	2.38	0.59
1:E:588:GLN:N	1:E:591:THR:OG1	2.36	0.59
1:I:407:ARG:O	1:I:409:GLY:N	2.34	0.59
1:J:254:ASN:O	1:J:257:LEU:N	2.35	0.59
1:J:588:GLN:N	1:J:591:THR:OG1	2.36	0.59
1:Q:588:GLN:N	1:Q:591:THR:OG1	2.36	0.59
1:R:355:TYR:CZ	1:R:357:LEU:HB2	2.38	0.59
1:R:531:ASP:OD1	1:R:569:LYS:NZ	2.28	0.59
1:U:588:GLN:N	1:U:591:THR:OG1	2.36	0.59
1:e:588:GLN:N	1:e:591:THR:OG1	2.36	0.59
1:i:355:TYR:CZ	1:i:357:LEU:HB2	2.38	0.59
1:t:355:TYR:CZ	1:t:357:LEU:HB2	2.38	0.59
1:t:511:TYR:HD2	1:t:520:VAL:HG22	1.67	0.59
1:t:588:GLN:N	1:t:591:THR:OG1	2.36	0.59
1:v:254:ASN:O	1:v:257:LEU:N	2.35	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:4:588:GLN:N	1:4:591:THR:OG1	2.36	0.59
1:5:588:GLN:N	1:5:591:THR:OG1	2.36	0.59
1:6:588:GLN:N	1:6:591:THR:OG1	2.36	0.59
1:A:254:ASN:O	1:A:257:LEU:N	2.35	0.59
1:A:407:ARG:O	1:A:409:GLY:N	2.34	0.59
1:C:396:TYR:OH	1:M:737:ASN:ND2	2.32	0.59
1:D:307:TRP:O	1:D:426:SER:OG	2.18	0.59
1:F:300:GLN:NE2	1:F:703:TYR:O	2.36	0.59
1:F:407:ARG:O	1:F:409:GLY:N	2.34	0.59
1:M:588:GLN:N	1:M:591:THR:OG1	2.36	0.59
1:O:588:GLN:N	1:O:591:THR:OG1	2.36	0.59
1:R:588:GLN:N	1:R:591:THR:OG1	2.36	0.59
1:S:300:GLN:NE2	1:S:703:TYR:O	2.36	0.59
1:S:355:TYR:CZ	1:S:357:LEU:HB2	2.38	0.59
1:U:355:TYR:CZ	1:U:357:LEU:HB2	2.38	0.59
1:X:511:TYR:HD2	1:X:520:VAL:HG22	1.67	0.59
1:Y:254:ASN:O	1:Y:257:LEU:N	2.35	0.59
1:Z:355:TYR:CZ	1:Z:357:LEU:HB2	2.38	0.59
1:b:254:ASN:O	1:b:257:LEU:N	2.35	0.59
1:g:355:TYR:CZ	1:g:357:LEU:HB2	2.38	0.59
1:g:588:GLN:N	1:g:591:THR:OG1	2.36	0.59
1:h:511:TYR:HD2	1:h:520:VAL:HG22	1.67	0.59
1:i:588:GLN:N	1:i:591:THR:OG1	2.36	0.59
1:j:511:TYR:HD2	1:j:520:VAL:HG22	1.67	0.59
1:k:511:TYR:HD2	1:k:520:VAL:HG22	1.67	0.59
1:n:588:GLN:N	1:n:591:THR:OG1	2.36	0.59
1:q:396:TYR:OH	1:s:737:ASN:ND2	2.31	0.59
1:r:254:ASN:O	1:r:257:LEU:N	2.35	0.59
1:u:300:GLN:NE2	1:u:703:TYR:O	2.36	0.59
1:u:355:TYR:CZ	1:u:357:LEU:HB2	2.38	0.59
1:v:588:GLN:N	1:v:591:THR:OG1	2.36	0.59
1:x:511:TYR:HD2	1:x:520:VAL:HG22	1.67	0.59
1:z:531:ASP:OD1	1:z:569:LYS:NZ	2.28	0.59
1:1:588:GLN:N	1:1:591:THR:OG1	2.36	0.59
1:3:588:GLN:N	1:3:591:THR:OG1	2.36	0.59
1:5:511:TYR:HD2	1:5:520:VAL:HG22	1.67	0.59
1:7:588:GLN:N	1:7:591:THR:OG1	2.36	0.59
1:8:254:ASN:O	1:8:257:LEU:N	2.35	0.59
1:A:588:GLN:N	1:A:591:THR:OG1	2.36	0.59
1:C:355:TYR:CZ	1:C:357:LEU:HB2	2.38	0.59
1:D:300:GLN:NE2	1:D:703:TYR:O	2.36	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:300:GLN:NE2	1:K:703:TYR:O	2.36	0.59
1:L:355:TYR:CZ	1:L:357:LEU:HB2	2.38	0.59
1:N:254:ASN:O	1:N:257:LEU:N	2.35	0.59
1:P:254:ASN:O	1:P:257:LEU:N	2.35	0.59
1:Q:511:TYR:HD2	1:Q:520:VAL:HG22	1.67	0.59
1:R:511:TYR:HD2	1:R:520:VAL:HG22	1.67	0.59
1:V:300:GLN:NE2	1:V:703:TYR:O	2.36	0.59
1:a:254:ASN:O	1:a:257:LEU:N	2.35	0.59
1:d:588:GLN:N	1:d:591:THR:OG1	2.36	0.59
1:h:258:TYR:OH	1:h:399:GLU:OE1	2.12	0.59
1:j:355:TYR:CZ	1:j:357:LEU:HB2	2.38	0.59
1:l:531:ASP:OD1	1:l:569:LYS:NZ	2.28	0.59
1:m:355:TYR:CZ	1:m:357:LEU:HB2	2.38	0.59
1:p:225:SER:CA	1:q:407:ARG:HD2	2.33	0.59
1:r:511:TYR:HD2	1:r:520:VAL:HG22	1.67	0.59
1:u:225:SER:CA	1:2:407:ARG:HD2	2.33	0.59
1:u:588:GLN:N	1:u:591:THR:OG1	2.36	0.59
1:x:355:TYR:CZ	1:x:357:LEU:HB2	2.38	0.59
1:y:300:GLN:NE2	1:y:703:TYR:O	2.36	0.59
1:y:355:TYR:CZ	1:y:357:LEU:HB2	2.38	0.59
1:8:300:GLN:NE2	1:8:703:TYR:O	2.36	0.59
1:B:254:ASN:O	1:B:257:LEU:N	2.35	0.59
1:H:225:SER:CA	1:I:407:ARG:HD2	2.33	0.59
1:H:254:ASN:O	1:H:257:LEU:N	2.35	0.59
1:N:588:GLN:N	1:N:591:THR:OG1	2.36	0.59
1:P:300:GLN:NE2	1:P:703:TYR:O	2.36	0.59
1:P:511:TYR:HD2	1:P:520:VAL:HG22	1.67	0.59
1:S:588:GLN:N	1:S:591:THR:OG1	2.36	0.59
1:T:511:TYR:HD2	1:T:520:VAL:HG22	1.67	0.59
1:V:355:TYR:CZ	1:V:357:LEU:HB2	2.38	0.59
1:X:355:TYR:CZ	1:X:357:LEU:HB2	2.38	0.59
1:Y:511:TYR:HD2	1:Y:520:VAL:HG22	1.67	0.59
1:f:511:TYR:HD2	1:f:520:VAL:HG22	1.67	0.59
1:g:659:ASP:OD2	1:k:333:LYS:NZ	2.32	0.59
1:i:254:ASN:O	1:i:257:LEU:N	2.35	0.59
1:o:588:GLN:N	1:o:591:THR:OG1	2.36	0.59
1:2:254:ASN:O	1:2:257:LEU:N	2.35	0.59
1:3:225:SER:CA	1:8:407:ARG:HD2	2.33	0.59
1:4:254:ASN:O	1:4:257:LEU:N	2.35	0.59
1:4:254:ASN:O	1:4:255:ASN:C	2.42	0.59
1:6:300:GLN:NE2	1:6:703:TYR:O	2.36	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:254:ASN:O	1:G:257:LEU:N	2.35	0.59
1:I:355:TYR:CZ	1:I:357:LEU:HB2	2.38	0.59
1:J:737:ASN:ND2	1:L:396:TYR:OH	2.32	0.59
1:V:254:ASN:O	1:V:257:LEU:N	2.35	0.59
1:W:588:GLN:N	1:W:591:THR:OG1	2.36	0.59
1:X:588:GLN:N	1:X:591:THR:OG1	2.36	0.59
1:a:588:GLN:N	1:a:591:THR:OG1	2.36	0.59
1:c:355:TYR:CZ	1:c:357:LEU:HB2	2.38	0.59
1:d:254:ASN:O	1:d:257:LEU:N	2.35	0.59
1:f:355:TYR:CZ	1:f:357:LEU:HB2	2.38	0.59
1:g:254:ASN:O	1:g:257:LEU:N	2.35	0.59
1:h:588:GLN:N	1:h:591:THR:OG1	2.36	0.59
1:n:254:ASN:O	1:n:257:LEU:N	2.35	0.59
1:n:300:GLN:NE2	1:n:703:TYR:O	2.36	0.59
1:p:254:ASN:O	1:p:257:LEU:N	2.35	0.59
1:q:588:GLN:N	1:q:591:THR:OG1	2.36	0.59
1:s:254:ASN:O	1:s:257:LEU:N	2.35	0.59
1:s:300:GLN:NE2	1:s:703:TYR:O	2.36	0.59
1:v:300:GLN:NE2	1:v:703:TYR:O	2.36	0.59
1:v:355:TYR:CZ	1:v:357:LEU:HB2	2.38	0.59
1:2:225:SER:CA	1:3:407:ARG:HD2	2.31	0.59
1:2:588:GLN:N	1:2:591:THR:OG1	2.36	0.59
1:4:300:GLN:NE2	1:4:703:TYR:O	2.36	0.59
1:8:511:TYR:HD2	1:8:520:VAL:HG22	1.67	0.59
1:C:300:GLN:NE2	1:C:703:TYR:O	2.36	0.59
1:F:531:ASP:OD1	1:F:569:LYS:NZ	2.28	0.59
1:H:300:GLN:NE2	1:H:703:TYR:O	2.36	0.59
1:L:511:TYR:HD2	1:L:520:VAL:HG22	1.67	0.59
1:M:511:TYR:HD2	1:M:520:VAL:HG22	1.67	0.59
1:N:300:GLN:NE2	1:N:703:TYR:O	2.36	0.59
1:O:225:SER:CA	1:P:407:ARG:HD2	2.33	0.59
1:V:588:GLN:N	1:V:591:THR:OG1	2.36	0.59
1:Y:588:GLN:N	1:Y:591:THR:OG1	2.36	0.59
1:Z:588:GLN:N	1:Z:591:THR:OG1	2.36	0.59
1:a:300:GLN:NE2	1:a:703:TYR:O	2.36	0.59
1:a:355:TYR:CZ	1:a:357:LEU:HB2	2.37	0.59
1:b:511:TYR:HD2	1:b:520:VAL:HG22	1.67	0.59
1:f:588:GLN:N	1:f:591:THR:OG1	2.36	0.59
1:h:300:GLN:NE2	1:h:703:TYR:O	2.36	0.59
1:k:300:GLN:NE2	1:k:703:TYR:O	2.36	0.59
1:l:300:GLN:NE2	1:l:703:TYR:O	2.36	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:m:588:GLN:N	1:m:591:THR:OG1	2.36	0.59
1:p:300:GLN:NE2	1:p:703:TYR:O	2.36	0.59
1:r:588:GLN:N	1:r:591:THR:OG1	2.36	0.59
1:u:511:TYR:HD2	1:u:520:VAL:HG22	1.67	0.59
1:w:254:ASN:O	1:w:257:LEU:N	2.35	0.59
1:w:737:ASN:ND2	1:x:396:TYR:OH	2.32	0.59
1:x:588:GLN:N	1:x:591:THR:OG1	2.36	0.59
1:y:254:ASN:O	1:y:257:LEU:N	2.35	0.59
1:y:588:GLN:N	1:y:591:THR:OG1	2.36	0.59
1:D:511:TYR:HD2	1:D:520:VAL:HG22	1.67	0.59
1:G:300:GLN:NE2	1:G:703:TYR:O	2.36	0.59
1:J:511:TYR:HD2	1:J:520:VAL:HG22	1.67	0.59
1:P:588:GLN:N	1:P:591:THR:OG1	2.36	0.59
1:S:254:ASN:O	1:S:257:LEU:N	2.35	0.59
1:S:511:TYR:HD2	1:S:520:VAL:HG22	1.67	0.59
1:U:300:GLN:NE2	1:U:703:TYR:O	2.36	0.59
1:Z:254:ASN:O	1:Z:257:LEU:N	2.35	0.59
1:c:407:ARG:HD2	1:s:225:SER:CA	2.33	0.59
1:e:254:ASN:O	1:e:257:LEU:N	2.35	0.59
1:j:588:GLN:N	1:j:591:THR:OG1	2.36	0.59
1:k:588:GLN:N	1:k:591:THR:OG1	2.36	0.59
1:m:254:ASN:O	1:m:257:LEU:N	2.35	0.59
1:t:407:ARG:HD2	1:y:225:SER:CA	2.33	0.59
1:u:736:ARG:HH21	1:v:626:HIS:CD2	2.21	0.59
1:1:511:TYR:HD2	1:1:520:VAL:HG22	1.67	0.59
1:3:300:GLN:NE2	1:3:703:TYR:O	2.36	0.59
1:8:355:TYR:CZ	1:8:357:LEU:HB2	2.37	0.59
1:A:479:ASN:ND2	1:G:358:GLY:O	2.35	0.58
1:C:588:GLN:N	1:C:591:THR:OG1	2.36	0.58
1:F:254:ASN:O	1:F:257:LEU:N	2.35	0.58
1:G:440:LEU:HD11	1:I:279:SER:HB2	1.85	0.58
1:H:588:GLN:N	1:H:591:THR:OG1	2.36	0.58
1:H:737:ASN:ND2	1:W:396:TYR:OH	2.32	0.58
1:J:300:GLN:NE2	1:J:703:TYR:O	2.36	0.58
1:L:300:GLN:NE2	1:L:703:TYR:O	2.36	0.58
1:L:588:GLN:N	1:L:591:THR:OG1	2.36	0.58
1:N:225:SER:CA	1:m:407:ARG:HD2	2.33	0.58
1:N:355:TYR:CZ	1:N:357:LEU:HB2	2.38	0.58
1:O:300:GLN:NE2	1:O:703:TYR:O	2.36	0.58
1:O:355:TYR:CZ	1:O:357:LEU:HB2	2.38	0.58
1:c:588:GLN:N	1:c:591:THR:OG1	2.36	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:d:355:TYR:CZ	1:d:357:LEU:HB2	2.38	0.58
1:l:588:GLN:N	1:l:591:THR:OG1	2.36	0.58
1:m:300:GLN:NE2	1:m:703:TYR:O	2.36	0.58
1:o:300:GLN:NE2	1:o:703:TYR:O	2.36	0.58
1:q:736:ARG:HH21	1:r:626:HIS:CD2	2.21	0.58
1:s:588:GLN:N	1:s:591:THR:OG1	2.36	0.58
1:x:300:GLN:NE2	1:x:703:TYR:O	2.36	0.58
1:z:258:TYR:OH	1:z:399:GLU:OE1	2.12	0.58
1:z:300:GLN:NE2	1:z:703:TYR:O	2.36	0.58
1:z:511:TYR:HD2	1:z:520:VAL:HG22	1.67	0.58
1:z:588:GLN:N	1:z:591:THR:OG1	2.36	0.58
1:2:355:TYR:CZ	1:2:357:LEU:HB2	2.38	0.58
1:6:355:TYR:CZ	1:6:357:LEU:HB2	2.38	0.58
1:8:588:GLN:N	1:8:591:THR:OG1	2.36	0.58
1:A:300:GLN:NE2	1:A:703:TYR:O	2.36	0.58
1:B:511:TYR:HD2	1:B:520:VAL:HG22	1.67	0.58
1:C:511:TYR:HD2	1:C:520:VAL:HG22	1.67	0.58
1:D:254:ASN:O	1:D:257:LEU:N	2.35	0.58
1:I:511:TYR:HD2	1:I:520:VAL:HG22	1.67	0.58
1:K:254:ASN:O	1:K:257:LEU:N	2.35	0.58
1:K:736:ARG:HH21	1:a:626:HIS:CD2	2.21	0.58
1:M:300:GLN:NE2	1:M:703:TYR:O	2.36	0.58
1:P:355:TYR:CZ	1:P:357:LEU:HB2	2.38	0.58
1:R:254:ASN:O	1:R:257:LEU:N	2.35	0.58
1:R:407:ARG:HD2	1:V:225:SER:CA	2.33	0.58
1:X:300:GLN:NE2	1:X:703:TYR:O	2.36	0.58
1:Y:355:TYR:CZ	1:Y:357:LEU:HB2	2.38	0.58
1:Z:407:ARG:HD2	1:a:225:SER:CA	2.33	0.58
1:l:407:ARG:HD2	1:n:225:SER:CA	2.33	0.58
1:r:355:TYR:CZ	1:r:357:LEU:HB2	2.38	0.58
1:r:736:ARG:HH21	1:s:626:HIS:CD2	2.21	0.58
1:s:355:TYR:CZ	1:s:357:LEU:HB2	2.38	0.58
1:u:254:ASN:O	1:u:257:LEU:N	2.35	0.58
1:2:511:TYR:HD2	1:2:520:VAL:HG22	1.67	0.58
1:6:254:ASN:O	1:6:257:LEU:N	2.35	0.58
1:6:511:TYR:HD2	1:6:520:VAL:HG22	1.67	0.58
1:B:588:GLN:N	1:B:591:THR:OG1	2.36	0.58
1:B:626:HIS:CD2	1:L:736:ARG:HH21	2.21	0.58
1:C:736:ARG:HH21	1:b:626:HIS:CD2	2.21	0.58
1:D:588:GLN:N	1:D:591:THR:OG1	2.36	0.58
1:F:324:LYS:NZ	1:F:337:ASN:OD1	2.36	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:355:TYR:CZ	1:F:357:LEU:HB2	2.38	0.58
1:I:588:GLN:N	1:I:591:THR:OG1	2.36	0.58
1:K:511:TYR:HD2	1:K:520:VAL:HG22	1.67	0.58
1:N:324:LYS:NZ	1:N:337:ASN:OD1	2.37	0.58
1:Q:355:TYR:CZ	1:Q:357:LEU:HB2	2.38	0.58
1:T:254:ASN:O	1:T:257:LEU:N	2.35	0.58
1:Z:300:GLN:NE2	1:Z:703:TYR:O	2.36	0.58
1:a:324:LYS:NZ	1:a:337:ASN:OD1	2.36	0.58
1:b:588:GLN:N	1:b:591:THR:OG1	2.36	0.58
1:c:511:TYR:HD2	1:c:520:VAL:HG22	1.67	0.58
1:i:300:GLN:NE2	1:i:703:TYR:O	2.36	0.58
1:i:307:TRP:O	1:i:426:SER:OG	2.18	0.58
1:l:355:TYR:CZ	1:l:357:LEU:HB2	2.38	0.58
1:l:511:TYR:HD2	1:l:520:VAL:HG22	1.67	0.58
1:q:225:SER:CA	1:y:407:ARG:HD2	2.33	0.58
1:w:511:TYR:HD2	1:w:520:VAL:HG22	1.67	0.58
1:1:254:ASN:O	1:1:257:LEU:N	2.35	0.58
1:1:355:TYR:CZ	1:1:357:LEU:HB2	2.38	0.58
1:3:355:TYR:CZ	1:3:357:LEU:HB2	2.38	0.58
1:5:355:TYR:CZ	1:5:357:LEU:HB2	2.38	0.58
1:A:324:LYS:NZ	1:A:337:ASN:OD1	2.36	0.58
1:E:511:TYR:HD2	1:E:520:VAL:HG22	1.67	0.58
1:H:355:TYR:CZ	1:H:357:LEU:HB2	2.38	0.58
1:I:324:LYS:NZ	1:I:337:ASN:OD1	2.36	0.58
1:R:254:ASN:O	1:R:256:HIS:N	2.37	0.58
1:R:324:LYS:NZ	1:R:337:ASN:OD1	2.36	0.58
1:S:225:SER:CA	1:d:407:ARG:HD2	2.33	0.58
1:T:254:ASN:O	1:T:256:HIS:N	2.37	0.58
1:T:355:TYR:CZ	1:T:357:LEU:HB2	2.38	0.58
1:T:736:ARG:HH21	1:d:626:HIS:CD2	2.21	0.58
1:Y:254:ASN:O	1:Y:256:HIS:N	2.37	0.58
1:c:324:LYS:NZ	1:c:337:ASN:OD1	2.36	0.58
1:e:307:TRP:O	1:e:426:SER:OG	2.18	0.58
1:g:300:GLN:NE2	1:g:703:TYR:O	2.36	0.58
1:g:407:ARG:HD2	1:k:225:SER:CA	2.33	0.58
1:i:736:ARG:HH21	1:j:626:HIS:CD2	2.22	0.58
1:j:479:ASN:ND2	1:k:358:GLY:O	2.37	0.58
1:o:511:TYR:HD2	1:o:520:VAL:HG22	1.67	0.58
1:t:254:ASN:O	1:t:256:HIS:N	2.37	0.58
1:t:254:ASN:O	1:t:257:LEU:N	2.35	0.58
1:t:300:GLN:NE2	1:t:703:TYR:O	2.36	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:w:307:TRP:O	1:w:426:SER:OG	2.18	0.58
1:1:254:ASN:O	1:1:256:HIS:N	2.37	0.58
1:2:300:GLN:NE2	1:2:703:TYR:O	2.36	0.58
1:3:254:ASN:O	1:3:257:LEU:N	2.35	0.58
1:7:511:TYR:HD2	1:7:520:VAL:HG22	1.67	0.58
1:A:511:TYR:HD2	1:A:520:VAL:HG22	1.67	0.58
1:C:254:ASN:O	1:C:256:HIS:N	2.37	0.58
1:D:324:LYS:NZ	1:D:337:ASN:OD1	2.36	0.58
1:E:254:ASN:O	1:E:257:LEU:N	2.35	0.58
1:E:626:HIS:CD2	1:F:736:ARG:HH21	2.22	0.58
1:F:511:TYR:HD2	1:F:520:VAL:HG22	1.67	0.58
1:G:324:LYS:NZ	1:G:337:ASN:OD1	2.36	0.58
1:G:479:ASN:ND2	1:I:358:GLY:O	2.36	0.58
1:H:626:HIS:CD2	1:Y:736:ARG:HH21	2.22	0.58
1:K:588:GLN:N	1:K:591:THR:OG1	2.36	0.58
1:N:254:ASN:O	1:N:256:HIS:N	2.37	0.58
1:P:307:TRP:O	1:P:426:SER:OG	2.18	0.58
1:Q:225:SER:CA	1:S:407:ARG:HD2	2.33	0.58
1:R:300:GLN:NE2	1:R:703:TYR:O	2.36	0.58
1:U:511:TYR:HD2	1:U:520:VAL:HG22	1.67	0.58
1:V:407:ARG:HD2	1:W:225:SER:CA	2.33	0.58
1:Y:300:GLN:NE2	1:Y:703:TYR:O	2.36	0.58
1:Z:254:ASN:O	1:Z:256:HIS:N	2.37	0.58
1:a:254:ASN:O	1:a:256:HIS:N	2.37	0.58
1:d:300:GLN:NE2	1:d:703:TYR:O	2.36	0.58
1:d:511:TYR:HD2	1:d:520:VAL:HG22	1.67	0.58
1:f:626:HIS:CD2	1:g:736:ARG:HH21	2.22	0.58
1:f:736:ARG:HH21	1:h:626:HIS:CD2	2.21	0.58
1:g:307:TRP:O	1:g:426:SER:OG	2.18	0.58
1:h:254:ASN:O	1:h:256:HIS:N	2.37	0.58
1:i:626:HIS:CD2	1:k:736:ARG:HH21	2.21	0.58
1:j:307:TRP:O	1:j:426:SER:OG	2.18	0.58
1:m:254:ASN:O	1:m:256:HIS:N	2.37	0.58
1:o:324:LYS:NZ	1:o:337:ASN:OD1	2.36	0.58
1:p:324:LYS:NZ	1:p:337:ASN:OD1	2.36	0.58
1:r:254:ASN:O	1:r:256:HIS:N	2.37	0.58
1:s:511:TYR:HD2	1:s:520:VAL:HG22	1.67	0.58
1:t:324:LYS:NZ	1:t:337:ASN:OD1	2.36	0.58
1:v:659:ASP:OD2	1:1:333:LYS:NZ	2.31	0.58
1:z:355:TYR:CZ	1:z:357:LEU:HB2	2.38	0.58
1:z:407:ARG:HD2	1:4:225:SER:CA	2.33	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:4:254:ASN:O	1:4:256:HIS:N	2.37	0.58
1:D:355:TYR:CZ	1:D:357:LEU:HB2	2.38	0.58
1:E:300:GLN:NE2	1:E:703:TYR:O	2.36	0.58
1:F:333:LYS:NZ	1:G:659:ASP:OD2	2.30	0.58
1:I:254:ASN:O	1:I:257:LEU:N	2.35	0.58
1:J:355:TYR:CZ	1:J:357:LEU:HB2	2.38	0.58
1:K:355:TYR:CZ	1:K:357:LEU:HB2	2.38	0.58
1:O:254:ASN:O	1:O:256:HIS:N	2.37	0.58
1:O:254:ASN:O	1:O:257:LEU:N	2.35	0.58
1:Q:254:ASN:O	1:Q:257:LEU:N	2.35	0.58
1:Q:300:GLN:NE2	1:Q:703:TYR:O	2.36	0.58
1:U:225:SER:CA	1:e:407:ARG:HD2	2.33	0.58
1:Z:511:TYR:HD2	1:Z:520:VAL:HG22	1.67	0.58
1:Z:736:ARG:HH21	1:4:626:HIS:CD2	2.21	0.58
1:b:321:ILE:HD13	1:b:343:ILE:HD11	1.86	0.58
1:c:254:ASN:O	1:c:257:LEU:N	2.35	0.58
1:e:355:TYR:CZ	1:e:357:LEU:HB2	2.38	0.58
1:e:511:TYR:HD2	1:e:520:VAL:HG22	1.67	0.58
1:f:300:GLN:NE2	1:f:703:TYR:O	2.36	0.58
1:f:307:TRP:O	1:f:426:SER:OG	2.18	0.58
1:h:307:TRP:O	1:h:426:SER:OG	2.18	0.58
1:h:355:TYR:CZ	1:h:357:LEU:HB2	2.38	0.58
1:k:254:ASN:O	1:k:256:HIS:N	2.37	0.58
1:k:307:TRP:O	1:k:426:SER:OG	2.18	0.58
1:n:254:ASN:O	1:n:256:HIS:N	2.37	0.58
1:n:321:ILE:HD13	1:n:343:ILE:HD11	1.86	0.58
1:r:300:GLN:NE2	1:r:703:TYR:O	2.36	0.58
1:v:511:TYR:HD2	1:v:520:VAL:HG22	1.67	0.58
1:w:300:GLN:NE2	1:w:703:TYR:O	2.36	0.58
1:z:736:ARG:HH21	1:1:626:HIS:CD2	2.22	0.58
1:3:324:LYS:NZ	1:3:337:ASN:OD1	2.36	0.58
1:7:300:GLN:NE2	1:7:703:TYR:O	2.36	0.58
1:7:307:TRP:O	1:7:426:SER:OG	2.18	0.58
1:7:355:TYR:CZ	1:7:357:LEU:HB2	2.37	0.58
1:B:254:ASN:O	1:B:256:HIS:N	2.37	0.58
1:B:321:ILE:HD13	1:B:343:ILE:HD11	1.86	0.58
1:D:736:ARG:HH21	1:N:626:HIS:CD2	2.22	0.58
1:E:355:TYR:CZ	1:E:357:LEU:HB2	2.38	0.58
1:H:511:TYR:HD2	1:H:520:VAL:HG22	1.67	0.58
1:K:407:ARG:HD2	1:7:225:SER:CA	2.33	0.58
1:L:254:ASN:O	1:L:256:HIS:N	2.37	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:355:TYR:CZ	1:M:357:LEU:HB2	2.38	0.58
1:O:324:LYS:NZ	1:O:337:ASN:OD1	2.36	0.58
1:O:626:HIS:CD2	1:n:736:ARG:HH21	2.22	0.58
1:Q:307:TRP:O	1:Q:426:SER:OG	2.18	0.58
1:U:254:ASN:O	1:U:256:HIS:N	2.37	0.58
1:W:736:ARG:HH21	1:Y:626:HIS:CD2	2.22	0.58
1:b:254:ASN:O	1:b:256:HIS:N	2.37	0.58
1:c:300:GLN:NE2	1:c:703:TYR:O	2.36	0.58
1:j:324:LYS:NZ	1:j:337:ASN:OD1	2.36	0.58
1:k:321:ILE:HD13	1:k:343:ILE:HD11	1.86	0.58
1:k:355:TYR:CZ	1:k:357:LEU:HB2	2.38	0.58
1:m:511:TYR:HD2	1:m:520:VAL:HG22	1.67	0.58
1:q:358:GLY:O	1:s:479:ASN:ND2	2.37	0.58
1:w:355:TYR:CZ	1:w:357:LEU:HB2	2.38	0.58
1:w:626:HIS:CD2	1:y:736:ARG:HH21	2.22	0.58
1:3:254:ASN:O	1:3:256:HIS:N	2.37	0.58
1:5:254:ASN:O	1:5:257:LEU:N	2.35	0.58
1:5:300:GLN:NE2	1:5:703:TYR:O	2.36	0.58
1:7:254:ASN:O	1:7:257:LEU:N	2.35	0.58
1:D:407:ARG:HD2	1:E:225:SER:CA	2.33	0.58
1:I:300:GLN:NE2	1:I:703:TYR:O	2.36	0.58
1:N:321:ILE:HD13	1:N:343:ILE:HD11	1.86	0.58
1:V:307:TRP:O	1:V:426:SER:OG	2.18	0.58
1:a:321:ILE:HD13	1:a:343:ILE:HD11	1.86	0.58
1:c:279:SER:HB2	1:p:440:LEU:HD11	1.86	0.58
1:e:300:GLN:NE2	1:e:703:TYR:O	2.36	0.58
1:f:324:LYS:NZ	1:f:337:ASN:OD1	2.36	0.58
1:g:324:LYS:NZ	1:g:337:ASN:OD1	2.36	0.58
1:h:321:ILE:HD13	1:h:343:ILE:HD11	1.86	0.58
1:j:300:GLN:NE2	1:j:703:TYR:O	2.36	0.58
1:m:479:ASN:ND2	1:n:358:GLY:O	2.37	0.58
1:p:588:GLN:N	1:p:591:THR:OG1	2.36	0.58
1:s:324:LYS:NZ	1:s:337:ASN:OD1	2.36	0.58
1:x:321:ILE:HD13	1:x:343:ILE:HD11	1.86	0.58
1:4:324:LYS:NZ	1:4:337:ASN:OD1	2.36	0.58
1:5:736:ARG:HH21	1:6:626:HIS:CD2	2.21	0.58
1:6:736:ARG:HH21	1:7:626:HIS:CD2	2.22	0.58
1:B:300:GLN:NE2	1:B:703:TYR:O	2.36	0.58
1:C:254:ASN:O	1:C:257:LEU:N	2.35	0.58
1:D:254:ASN:O	1:D:256:HIS:N	2.37	0.58
1:F:254:ASN:O	1:F:256:HIS:N	2.37	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:321:ILE:HD13	1:G:343:ILE:HD11	1.86	0.58
1:G:588:GLN:N	1:G:591:THR:OG1	2.36	0.58
1:H:324:LYS:NZ	1:H:337:ASN:OD1	2.36	0.58
1:K:254:ASN:O	1:K:256:HIS:N	2.37	0.58
1:L:321:ILE:HD13	1:L:343:ILE:HD11	1.86	0.58
1:M:321:ILE:HD13	1:M:343:ILE:HD11	1.86	0.58
1:O:321:ILE:HD13	1:O:343:ILE:HD11	1.86	0.58
1:T:333:LYS:NZ	1:U:659:ASP:OD2	2.32	0.58
1:T:626:HIS:CD2	1:l:736:ARG:HH21	2.22	0.58
1:V:329:ASN:O	1:V:332:THR:OG1	2.21	0.58
1:W:254:ASN:O	1:W:256:HIS:N	2.37	0.58
1:X:321:ILE:HD13	1:X:343:ILE:HD11	1.86	0.58
1:X:324:LYS:NZ	1:X:337:ASN:OD1	2.36	0.58
1:X:358:GLY:O	1:e:479:ASN:ND2	2.36	0.58
1:Y:321:ILE:HD13	1:Y:343:ILE:HD11	1.86	0.58
1:b:531:ASP:OD1	1:b:569:LYS:NZ	2.28	0.58
1:f:254:ASN:O	1:f:257:LEU:N	2.35	0.58
1:i:324:LYS:NZ	1:i:337:ASN:OD1	2.36	0.58
1:j:254:ASN:O	1:j:257:LEU:N	2.35	0.58
1:l:254:ASN:O	1:l:256:HIS:N	2.37	0.58
1:n:324:LYS:NZ	1:n:337:ASN:OD1	2.36	0.58
1:p:321:ILE:HD13	1:p:343:ILE:HD11	1.86	0.58
1:v:254:ASN:O	1:v:256:HIS:N	2.37	0.58
1:w:324:LYS:NZ	1:w:337:ASN:OD1	2.36	0.58
1:x:254:ASN:O	1:x:256:HIS:N	2.37	0.58
1:x:324:LYS:NZ	1:x:337:ASN:OD1	2.36	0.58
1:x:479:ASN:ND2	1:y:358:GLY:O	2.37	0.58
1:3:321:ILE:HD13	1:3:343:ILE:HD11	1.86	0.58
1:4:321:ILE:HD13	1:4:343:ILE:HD11	1.86	0.58
1:6:254:ASN:O	1:6:256:HIS:N	2.37	0.58
1:C:321:ILE:HD13	1:C:343:ILE:HD11	1.86	0.58
1:E:254:ASN:O	1:E:256:HIS:N	2.37	0.58
1:H:358:GLY:O	1:Y:479:ASN:ND2	2.37	0.58
1:I:225:SER:CA	1:J:407:ARG:HD2	2.33	0.58
1:L:324:LYS:NZ	1:L:337:ASN:OD1	2.37	0.58
1:P:324:LYS:NZ	1:P:337:ASN:OD1	2.36	0.58
1:S:324:LYS:NZ	1:S:337:ASN:OD1	2.36	0.58
1:T:300:GLN:NE2	1:T:703:TYR:O	2.36	0.58
1:V:321:ILE:HD13	1:V:343:ILE:HD11	1.86	0.58
1:V:736:ARG:HH21	1:e:626:HIS:CD2	2.22	0.58
1:W:321:ILE:HD13	1:W:343:ILE:HD11	1.86	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:X:254:ASN:O	1:X:256:HIS:N	2.37	0.58
1:b:225:SER:CA	1:o:407:ARG:HD2	2.33	0.58
1:b:300:GLN:NE2	1:b:703:TYR:O	2.36	0.58
1:c:358:GLY:O	1:p:479:ASN:ND2	2.37	0.58
1:e:324:LYS:NZ	1:e:337:ASN:OD1	2.36	0.58
1:q:254:ASN:O	1:q:256:HIS:N	2.37	0.58
1:q:321:ILE:HD13	1:q:343:ILE:HD11	1.86	0.58
1:v:324:LYS:NZ	1:v:337:ASN:OD1	2.36	0.58
1:y:329:ASN:O	1:y:332:THR:OG1	2.21	0.58
1:z:254:ASN:O	1:z:256:HIS:N	2.37	0.58
1:2:254:ASN:O	1:2:256:HIS:N	2.37	0.58
1:3:626:HIS:CD2	1:4:736:ARG:HH21	2.22	0.58
1:6:324:LYS:NZ	1:6:337:ASN:OD1	2.36	0.58
1:7:254:ASN:O	1:7:256:HIS:N	2.37	0.58
1:A:254:ASN:O	1:A:256:HIS:N	2.37	0.57
1:B:737:ASN:ND2	1:J:396:TYR:OH	2.32	0.57
1:C:324:LYS:NZ	1:C:337:ASN:OD1	2.36	0.57
1:H:407:ARG:HD2	1:Z:225:SER:CA	2.33	0.57
1:H:479:ASN:ND2	1:W:358:GLY:O	2.37	0.57
1:J:321:ILE:HD13	1:J:343:ILE:HD11	1.86	0.57
1:L:254:ASN:O	1:L:257:LEU:N	2.35	0.57
1:U:324:LYS:NZ	1:U:337:ASN:OD1	2.36	0.57
1:V:358:GLY:O	1:X:479:ASN:ND2	2.37	0.57
1:W:254:ASN:O	1:W:257:LEU:N	2.35	0.57
1:d:254:ASN:O	1:d:256:HIS:N	2.37	0.57
1:h:254:ASN:O	1:h:257:LEU:N	2.35	0.57
1:h:324:LYS:NZ	1:h:337:ASN:OD1	2.36	0.57
1:q:254:ASN:O	1:q:257:LEU:N	2.35	0.57
1:r:321:ILE:HD13	1:r:343:ILE:HD11	1.86	0.57
1:s:254:ASN:O	1:s:256:HIS:N	2.37	0.57
1:u:324:LYS:NZ	1:u:337:ASN:OD1	2.36	0.57
1:u:737:ASN:ND2	1:v:396:TYR:OH	2.32	0.57
1:w:736:ARG:HH21	1:x:626:HIS:CD2	2.21	0.57
1:y:307:TRP:O	1:y:426:SER:OG	2.18	0.57
1:z:324:LYS:NZ	1:z:337:ASN:OD1	2.36	0.57
1:z:626:HIS:CD2	1:2:736:ARG:HH21	2.22	0.57
1:8:254:ASN:O	1:8:256:HIS:N	2.37	0.57
1:8:324:LYS:NZ	1:8:337:ASN:OD1	2.37	0.57
1:A:407:ARG:HD2	1:B:225:SER:CA	2.33	0.57
1:H:254:ASN:O	1:H:256:HIS:N	2.37	0.57
1:M:324:LYS:NZ	1:M:337:ASN:OD1	2.36	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:407:ARG:HD2	1:c:225:SER:CA	2.34	0.57
1:P:254:ASN:O	1:P:256:HIS:N	2.37	0.57
1:T:279:SER:HB2	1:l:440:LEU:HD11	1.87	0.57
1:Y:225:SER:CA	1:4:407:ARG:HD2	2.33	0.57
1:e:254:ASN:O	1:e:256:HIS:N	2.37	0.57
1:f:479:ASN:ND2	1:h:358:GLY:O	2.37	0.57
1:g:321:ILE:HD13	1:g:343:ILE:HD11	1.86	0.57
1:h:225:SER:CA	1:i:407:ARG:HD2	2.33	0.57
1:l:324:LYS:NZ	1:l:337:ASN:OD1	2.36	0.57
1:m:324:LYS:NZ	1:m:337:ASN:OD1	2.36	0.57
1:o:254:ASN:O	1:o:256:HIS:N	2.37	0.57
1:t:225:SER:CA	1:6:407:ARG:HD2	2.33	0.57
1:u:407:ARG:HD2	1:5:225:SER:CA	2.33	0.57
1:y:321:ILE:HD13	1:y:343:ILE:HD11	1.86	0.57
1:z:254:ASN:O	1:z:257:LEU:N	2.35	0.57
1:z:279:SER:HB2	1:2:440:LEU:HD11	1.85	0.57
1:1:300:GLN:NE2	1:1:703:TYR:O	2.36	0.57
1:F:626:HIS:CD2	1:Q:736:ARG:HH21	2.22	0.57
1:Q:254:ASN:O	1:Q:256:HIS:N	2.37	0.57
1:S:321:ILE:HD13	1:S:343:ILE:HD11	1.86	0.57
1:V:324:LYS:NZ	1:V:337:ASN:OD1	2.36	0.57
1:V:626:HIS:CD2	1:X:736:ARG:HH21	2.22	0.57
1:W:324:LYS:NZ	1:W:337:ASN:OD1	2.36	0.57
1:Z:324:LYS:NZ	1:Z:337:ASN:OD1	2.36	0.57
1:b:324:LYS:NZ	1:b:337:ASN:OD1	2.36	0.57
1:c:626:HIS:CD2	1:p:736:ARG:HH21	2.22	0.57
1:c:736:ARG:HH21	1:o:626:HIS:CD2	2.22	0.57
1:g:333:LYS:NZ	1:1:659:ASP:OD2	2.32	0.57
1:g:626:HIS:CD2	1:h:736:ARG:HH21	2.22	0.57
1:i:321:ILE:HD13	1:i:343:ILE:HD11	1.86	0.57
1:k:254:ASN:O	1:k:257:LEU:N	2.35	0.57
1:k:324:LYS:NZ	1:k:337:ASN:OD1	2.36	0.57
1:m:736:ARG:HH21	1:n:626:HIS:CD2	2.22	0.57
1:v:225:SER:CA	1:w:407:ARG:HD2	2.33	0.57
1:5:254:ASN:O	1:5:256:HIS:N	2.37	0.57
1:B:324:LYS:NZ	1:B:337:ASN:OD1	2.37	0.57
1:C:626:HIS:CD2	1:M:736:ARG:HH21	2.22	0.57
1:K:324:LYS:NZ	1:K:337:ASN:OD1	2.36	0.57
1:P:321:ILE:HD13	1:P:343:ILE:HD11	1.86	0.57
1:W:300:GLN:NE2	1:W:703:TYR:O	2.36	0.57
1:X:407:ARG:HD2	1:f:225:SER:CA	2.33	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:k:487:ARG:HG2	1:k:488:GLN:N	2.20	0.57
1:l:254:ASN:O	1:l:257:LEU:N	2.35	0.57
1:m:225:SER:CA	1:s:407:ARG:HD2	2.33	0.57
1:p:407:ARG:HD2	1:6:225:SER:CA	2.33	0.57
1:p:659:ASP:OD2	1:6:333:LYS:NZ	2.31	0.57
1:q:324:LYS:NZ	1:q:337:ASN:OD1	2.36	0.57
1:r:479:ASN:ND2	1:s:358:GLY:O	2.38	0.57
1:t:736:ARG:HH21	1:u:626:HIS:CD2	2.22	0.57
1:w:254:ASN:O	1:w:256:HIS:N	2.37	0.57
1:5:626:HIS:CD2	1:7:736:ARG:HH21	2.22	0.57
1:7:321:ILE:HD13	1:7:343:ILE:HD11	1.86	0.57
1:8:321:ILE:HD13	1:8:343:ILE:HD11	1.86	0.57
1:B:736:ARG:HH21	1:J:626:HIS:CD2	2.21	0.57
1:E:321:ILE:HD13	1:E:343:ILE:HD11	1.86	0.57
1:E:487:ARG:HG2	1:E:488:GLN:N	2.20	0.57
1:G:736:ARG:HH21	1:I:626:HIS:CD2	2.22	0.57
1:J:324:LYS:NZ	1:J:337:ASN:OD1	2.36	0.57
1:R:736:ARG:HH21	1:S:626:HIS:CD2	2.22	0.57
1:S:736:ARG:HH21	1:U:626:HIS:CD2	2.22	0.57
1:Z:626:HIS:CD2	1:3:736:ARG:HH21	2.22	0.57
1:c:321:ILE:HD13	1:c:343:ILE:HD11	1.86	0.57
1:d:736:ARG:HH21	1:l:626:HIS:CD2	2.22	0.57
1:f:254:ASN:O	1:f:256:HIS:N	2.37	0.57
1:h:487:ARG:HG2	1:h:488:GLN:N	2.20	0.57
1:j:254:ASN:O	1:j:256:HIS:N	2.37	0.57
1:j:440:LEU:HD11	1:k:279:SER:HB2	1.87	0.57
1:j:736:ARG:HH21	1:k:626:HIS:CD2	2.22	0.57
1:o:736:ARG:HH21	1:p:626:HIS:CD2	2.22	0.57
1:p:254:ASN:O	1:p:256:HIS:N	2.37	0.57
1:r:324:LYS:NZ	1:r:337:ASN:OD1	2.36	0.57
1:t:479:ASN:ND2	1:u:358:GLY:O	2.37	0.57
1:u:254:ASN:O	1:u:256:HIS:N	2.37	0.57
1:y:254:ASN:O	1:y:256:HIS:N	2.37	0.57
1:y:324:LYS:NZ	1:y:337:ASN:OD1	2.37	0.57
1:1:736:ARG:HH21	1:2:626:HIS:CD2	2.22	0.57
1:7:324:LYS:NZ	1:7:337:ASN:OD1	2.36	0.57
1:A:321:ILE:HD13	1:A:343:ILE:HD11	1.86	0.57
1:B:358:GLY:O	1:L:479:ASN:ND2	2.37	0.57
1:C:479:ASN:ND2	1:b:358:GLY:O	2.37	0.57
1:D:626:HIS:CD2	1:P:736:ARG:HH21	2.22	0.57
1:E:324:LYS:NZ	1:E:337:ASN:OD1	2.36	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:254:ASN:O	1:G:256:HIS:N	2.37	0.57
1:J:736:ARG:HH21	1:L:626:HIS:CD2	2.22	0.57
1:N:487:ARG:HG2	1:N:488:GLN:N	2.20	0.57
1:R:626:HIS:CD2	1:U:736:ARG:HH21	2.22	0.57
1:S:254:ASN:O	1:S:256:HIS:N	2.37	0.57
1:T:358:GLY:O	1:l:479:ASN:ND2	2.37	0.57
1:j:225:SER:CA	1:x:407:ARG:HD2	2.33	0.57
1:o:321:ILE:HD13	1:o:343:ILE:HD11	1.86	0.57
1:o:479:ASN:ND2	1:p:358:GLY:O	2.37	0.57
1:q:300:GLN:NE2	1:q:703:TYR:O	2.36	0.57
1:s:487:ARG:HG2	1:s:488:GLN:N	2.20	0.57
1:t:626:HIS:CD2	1:v:736:ARG:HH21	2.22	0.57
1:u:321:ILE:HD13	1:u:343:ILE:HD11	1.86	0.57
1:u:487:ARG:HG2	1:u:488:GLN:N	2.20	0.57
1:z:487:ARG:HG2	1:z:488:GLN:N	2.20	0.57
1:2:696:ARG:NE	1:2:698:ASN:OD1	2.36	0.57
1:F:407:ARG:HD2	1:R:225:SER:CA	2.33	0.57
1:H:487:ARG:HG2	1:H:488:GLN:N	2.20	0.57
1:I:254:ASN:O	1:I:256:HIS:N	2.37	0.57
1:I:321:ILE:HD13	1:I:343:ILE:HD11	1.86	0.57
1:M:626:HIS:CD2	1:b:736:ARG:HH21	2.22	0.57
1:Q:487:ARG:HG2	1:Q:488:GLN:N	2.20	0.57
1:R:321:ILE:HD13	1:R:343:ILE:HD11	1.86	0.57
1:R:479:ASN:ND2	1:S:358:GLY:O	2.37	0.57
1:S:487:ARG:HG2	1:S:488:GLN:N	2.20	0.57
1:V:254:ASN:O	1:V:256:HIS:N	2.37	0.57
1:Y:324:LYS:NZ	1:Y:337:ASN:OD1	2.37	0.57
1:a:487:ARG:HG2	1:a:488:GLN:N	2.20	0.57
1:c:479:ASN:ND2	1:o:358:GLY:O	2.37	0.57
1:i:254:ASN:O	1:i:256:HIS:N	2.37	0.57
1:l:487:ARG:HG2	1:l:488:GLN:N	2.20	0.57
1:s:329:ASN:O	1:s:332:THR:OG1	2.21	0.57
1:t:440:LEU:HD11	1:u:279:SER:HB2	1.87	0.57
1:w:279:SER:HB2	1:y:440:LEU:HD11	1.87	0.57
1:w:479:ASN:ND2	1:x:358:GLY:O	2.37	0.57
1:z:358:GLY:O	1:2:479:ASN:ND2	2.36	0.57
1:z:439:PRO:O	1:z:470:PRO:HG3	2.05	0.57
1:7:487:ARG:HG2	1:7:488:GLN:N	2.20	0.57
1:D:440:LEU:HD11	1:N:279:SER:HB2	1.87	0.57
1:K:626:HIS:CD2	1:8:736:ARG:HH21	2.22	0.57
1:N:439:PRO:O	1:N:470:PRO:HG3	2.05	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:P:439:PRO:O	1:P:470:PRO:HG3	2.05	0.57
1:U:321:ILE:HD13	1:U:343:ILE:HD11	1.86	0.57
1:Z:479:ASN:ND2	1:4:358:GLY:O	2.38	0.57
1:c:254:ASN:O	1:c:256:HIS:N	2.37	0.57
1:d:487:ARG:HG2	1:d:488:GLN:N	2.20	0.57
1:f:279:SER:HB2	1:g:440:LEU:HD11	1.87	0.57
1:g:254:ASN:O	1:g:256:HIS:N	2.37	0.57
1:j:487:ARG:HG2	1:j:488:GLN:N	2.20	0.57
1:l:439:PRO:O	1:l:470:PRO:HG3	2.05	0.57
1:n:407:ARG:HD2	1:r:225:SER:CA	2.33	0.57
1:x:736:ARG:HH21	1:y:626:HIS:CD2	2.22	0.57
1:1:479:ASN:ND2	1:2:358:GLY:O	2.37	0.57
1:2:487:ARG:HG2	1:2:488:GLN:N	2.20	0.57
1:A:626:HIS:CD2	1:I:736:ARG:HH21	2.23	0.57
1:E:736:ARG:HH21	1:Q:626:HIS:CD2	2.22	0.57
1:F:279:SER:HB2	1:Q:440:LEU:HD11	1.87	0.57
1:F:321:ILE:HD13	1:F:343:ILE:HD11	1.86	0.57
1:J:254:ASN:O	1:J:256:HIS:N	2.37	0.57
1:K:440:LEU:HD11	1:a:279:SER:HB2	1.87	0.57
1:M:254:ASN:O	1:M:256:HIS:N	2.37	0.57
1:R:279:SER:HB2	1:U:440:LEU:HD11	1.87	0.57
1:R:358:GLY:O	1:U:479:ASN:ND2	2.37	0.57
1:T:321:ILE:HD13	1:T:343:ILE:HD11	1.86	0.57
1:X:225:SER:CA	1:Y:407:ARG:HD2	2.33	0.57
1:Z:439:PRO:O	1:Z:470:PRO:HG3	2.05	0.57
1:a:439:PRO:O	1:a:470:PRO:HG3	2.05	0.57
1:e:225:SER:CA	1:h:407:ARG:HD2	2.33	0.57
1:e:321:ILE:HD13	1:e:343:ILE:HD11	1.86	0.57
1:f:358:GLY:O	1:g:479:ASN:ND2	2.37	0.57
1:f:487:ARG:HG2	1:f:488:GLN:N	2.20	0.57
1:m:439:PRO:O	1:m:470:PRO:HG3	2.05	0.57
1:t:321:ILE:HD13	1:t:343:ILE:HD11	1.86	0.57
1:w:439:PRO:O	1:w:470:PRO:HG3	2.05	0.57
1:5:487:ARG:HG2	1:5:488:GLN:N	2.20	0.57
1:6:321:ILE:HD13	1:6:343:ILE:HD11	1.86	0.57
1:8:439:PRO:O	1:8:470:PRO:HG3	2.05	0.57
1:A:225:SER:CA	1:E:407:ARG:HD2	2.32	0.57
1:A:358:GLY:O	1:I:479:ASN:ND2	2.37	0.57
1:B:440:LEU:HD11	1:J:279:SER:HB2	1.87	0.57
1:B:487:ARG:HG2	1:B:488:GLN:N	2.20	0.57
1:F:225:SER:CA	1:G:407:ARG:HD2	2.34	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:279:SER:HB2	1:b:440:LEU:HD11	1.87	0.57
1:M:696:ARG:HH21	1:M:698:ASN:HD21	1.53	0.57
1:O:407:ARG:HD2	1:d:225:SER:CA	2.33	0.57
1:O:736:ARG:HH21	1:m:626:HIS:CD2	2.22	0.57
1:P:487:ARG:HG2	1:P:488:GLN:N	2.20	0.57
1:S:440:LEU:HD11	1:U:279:SER:HB2	1.87	0.57
1:T:324:LYS:NZ	1:T:337:ASN:OD1	2.36	0.57
1:a:736:ARG:HH21	1:8:626:HIS:CD2	2.22	0.57
1:f:439:PRO:O	1:f:470:PRO:HG3	2.05	0.57
1:s:439:PRO:O	1:s:470:PRO:HG3	2.05	0.57
1:t:439:PRO:O	1:t:470:PRO:HG3	2.05	0.57
1:t:696:ARG:NE	1:t:698:ASN:OD1	2.36	0.57
1:1:324:LYS:NZ	1:1:337:ASN:OD1	2.36	0.57
1:2:324:LYS:NZ	1:2:337:ASN:OD1	2.36	0.57
1:6:440:LEU:HD11	1:7:279:SER:HB2	1.87	0.57
1:B:439:PRO:O	1:B:470:PRO:HG3	2.05	0.56
1:F:358:GLY:O	1:Q:479:ASN:ND2	2.37	0.56
1:H:321:ILE:HD13	1:H:343:ILE:HD11	1.86	0.56
1:H:439:PRO:O	1:H:470:PRO:HG3	2.05	0.56
1:H:736:ARG:HH21	1:W:626:HIS:CD2	2.21	0.56
1:J:696:ARG:HH21	1:J:698:ASN:HD21	1.54	0.56
1:R:439:PRO:O	1:R:470:PRO:HG3	2.05	0.56
1:V:440:LEU:HD11	1:e:279:SER:HB2	1.87	0.56
1:X:487:ARG:HG2	1:X:488:GLN:N	2.20	0.56
1:X:626:HIS:CD2	1:e:736:ARG:HH21	2.22	0.56
1:Z:279:SER:HB2	1:3:440:LEU:HD11	1.87	0.56
1:b:439:PRO:O	1:b:470:PRO:HG3	2.05	0.56
1:b:487:ARG:HG2	1:b:488:GLN:N	2.20	0.56
1:d:696:ARG:HH21	1:d:698:ASN:HD21	1.53	0.56
1:e:439:PRO:O	1:e:470:PRO:HG3	2.05	0.56
1:j:439:PRO:O	1:j:470:PRO:HG3	2.05	0.56
1:l:696:ARG:NE	1:l:698:ASN:OD1	2.36	0.56
1:o:440:LEU:HD11	1:p:279:SER:HB2	1.87	0.56
1:s:321:ILE:HD13	1:s:343:ILE:HD11	1.86	0.56
1:t:279:SER:HB2	1:v:440:LEU:HD11	1.87	0.56
1:v:321:ILE:HD13	1:v:343:ILE:HD11	1.86	0.56
1:x:696:ARG:HH21	1:x:698:ASN:HD21	1.53	0.56
1:2:696:ARG:HH21	1:2:698:ASN:HD21	1.54	0.56
1:6:487:ARG:HG2	1:6:488:GLN:N	2.20	0.56
1:A:439:PRO:O	1:A:470:PRO:HG3	2.05	0.56
1:E:440:LEU:HD11	1:Q:279:SER:HB2	1.87	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:439:PRO:O	1:F:470:PRO:HG3	2.05	0.56
1:F:487:ARG:HG2	1:F:488:GLN:N	2.20	0.56
1:G:487:ARG:HG2	1:G:488:GLN:N	2.20	0.56
1:O:358:GLY:O	1:n:479:ASN:ND2	2.37	0.56
1:R:696:ARG:NE	1:R:698:ASN:OD1	2.36	0.56
1:X:696:ARG:HH21	1:X:698:ASN:HD21	1.53	0.56
1:n:696:ARG:NE	1:n:698:ASN:OD1	2.36	0.56
1:o:439:PRO:O	1:o:470:PRO:HG3	2.05	0.56
1:o:487:ARG:HG2	1:o:488:GLN:N	2.20	0.56
1:w:321:ILE:HD13	1:w:343:ILE:HD11	1.86	0.56
1:x:487:ARG:HG2	1:x:488:GLN:N	2.20	0.56
1:z:440:LEU:HD11	1:1:279:SER:HB2	1.88	0.56
1:1:321:ILE:HD13	1:1:343:ILE:HD11	1.86	0.56
1:1:696:ARG:HH21	1:1:698:ASN:HD21	1.53	0.56
1:5:279:SER:HB2	1:7:440:LEU:HD11	1.87	0.56
1:8:487:ARG:HG2	1:8:488:GLN:N	2.20	0.56
1:A:487:ARG:HG2	1:A:488:GLN:N	2.20	0.56
1:C:696:ARG:HH21	1:C:698:ASN:HD21	1.53	0.56
1:E:279:SER:HB2	1:F:440:LEU:HD11	1.87	0.56
1:F:696:ARG:NE	1:F:698:ASN:OD1	2.36	0.56
1:G:439:PRO:O	1:G:470:PRO:HG3	2.05	0.56
1:J:225:SER:CA	1:a:407:ARG:HD2	2.33	0.56
1:L:696:ARG:HH21	1:L:698:ASN:HD21	1.54	0.56
1:M:487:ARG:HG2	1:M:488:GLN:N	2.20	0.56
1:N:736:ARG:HH21	1:P:626:HIS:CD2	2.22	0.56
1:O:439:PRO:O	1:O:470:PRO:HG3	2.05	0.56
1:R:440:LEU:HD11	1:S:279:SER:HB2	1.87	0.56
1:T:439:PRO:O	1:T:470:PRO:HG3	2.05	0.56
1:T:696:ARG:HH21	1:T:698:ASN:HD21	1.54	0.56
1:V:439:PRO:O	1:V:470:PRO:HG3	2.05	0.56
1:V:696:ARG:NE	1:V:698:ASN:OD1	2.36	0.56
1:X:279:SER:HB2	1:e:440:LEU:HD11	1.87	0.56
1:d:321:ILE:HD13	1:d:343:ILE:HD11	1.86	0.56
1:d:324:LYS:NZ	1:d:337:ASN:OD1	2.36	0.56
1:d:479:ASN:ND2	1:l:358:GLY:O	2.37	0.56
1:g:358:GLY:O	1:h:479:ASN:ND2	2.37	0.56
1:g:439:PRO:O	1:g:470:PRO:HG3	2.05	0.56
1:i:439:PRO:O	1:i:470:PRO:HG3	2.05	0.56
1:i:479:ASN:ND2	1:j:358:GLY:O	2.37	0.56
1:j:407:ARG:HD2	1:l:225:SER:CA	2.33	0.56
1:l:321:ILE:HD13	1:l:343:ILE:HD11	1.86	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:p:487:ARG:HG2	1:p:488:GLN:N	2.20	0.56
1:t:358:GLY:O	1:v:479:ASN:ND2	2.37	0.56
1:y:696:ARG:NE	1:y:698:ASN:OD1	2.36	0.56
1:z:321:ILE:HD13	1:z:343:ILE:HD11	1.86	0.56
1:z:479:ASN:ND2	1:1:358:GLY:O	2.38	0.56
1:z:696:ARG:NE	1:z:698:ASN:OD1	2.36	0.56
1:1:439:PRO:O	1:1:470:PRO:HG3	2.05	0.56
1:2:321:ILE:HD13	1:2:343:ILE:HD11	1.86	0.56
1:3:307:TRP:O	1:3:426:SER:OG	2.18	0.56
1:3:358:GLY:O	1:4:479:ASN:ND2	2.37	0.56
1:6:439:PRO:O	1:6:470:PRO:HG3	2.05	0.56
1:J:329:ASN:O	1:J:332:THR:OG1	2.21	0.56
1:J:487:ARG:HG2	1:J:488:GLN:N	2.20	0.56
1:M:225:SER:CA	1:N:407:ARG:HD2	2.33	0.56
1:N:307:TRP:O	1:N:426:SER:OG	2.18	0.56
1:N:479:ASN:ND2	1:P:358:GLY:O	2.37	0.56
1:O:440:LEU:HD11	1:m:279:SER:HB2	1.87	0.56
1:U:329:ASN:O	1:U:332:THR:OG1	2.21	0.56
1:W:439:PRO:O	1:W:470:PRO:HG3	2.05	0.56
1:Z:321:ILE:HD13	1:Z:343:ILE:HD11	1.86	0.56
1:c:440:LEU:HD11	1:o:279:SER:HB2	1.87	0.56
1:e:487:ARG:HG2	1:e:488:GLN:N	2.20	0.56
1:f:321:ILE:HD13	1:f:343:ILE:HD11	1.86	0.56
1:g:225:SER:CA	1:1:407:ARG:HD2	2.33	0.56
1:i:487:ARG:HG2	1:i:488:GLN:N	2.20	0.56
1:j:321:ILE:HD13	1:j:343:ILE:HD11	1.86	0.56
1:k:407:ARG:HD2	1:w:225:SER:CA	2.33	0.56
1:k:439:PRO:O	1:k:470:PRO:HG3	2.05	0.56
1:m:321:ILE:HD13	1:m:343:ILE:HD11	1.86	0.56
1:n:439:PRO:O	1:n:470:PRO:HG3	2.05	0.56
1:r:696:ARG:NE	1:r:698:ASN:OD1	2.36	0.56
1:t:487:ARG:HG2	1:t:488:GLN:N	2.20	0.56
1:y:439:PRO:O	1:y:470:PRO:HG3	2.05	0.56
1:4:696:ARG:NE	1:4:698:ASN:OD1	2.36	0.56
1:5:440:LEU:HD11	1:6:279:SER:HB2	1.87	0.56
1:H:279:SER:HB2	1:Y:440:LEU:HD11	1.87	0.56
1:I:696:ARG:HH21	1:I:698:ASN:HD21	1.54	0.56
1:M:329:ASN:O	1:M:332:THR:OG1	2.21	0.56
1:O:487:ARG:HG2	1:O:488:GLN:N	2.20	0.56
1:a:307:TRP:O	1:a:426:SER:OG	2.18	0.56
1:c:696:ARG:HH21	1:c:698:ASN:HD21	1.53	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:d:439:PRO:O	1:d:470:PRO:HG3	2.05	0.56
1:f:407:ARG:HD2	1:z:225:SER:CA	2.34	0.56
1:p:439:PRO:O	1:p:470:PRO:HG3	2.05	0.56
1:q:439:PRO:O	1:q:470:PRO:HG3	2.05	0.56
1:u:439:PRO:O	1:u:470:PRO:HG3	2.05	0.56
1:y:487:ARG:HG2	1:y:488:GLN:N	2.20	0.56
1:3:439:PRO:O	1:3:470:PRO:HG3	2.05	0.56
1:4:439:PRO:O	1:4:470:PRO:HG3	2.05	0.56
1:C:358:GLY:O	1:M:479:ASN:ND2	2.37	0.56
1:D:439:PRO:O	1:D:470:PRO:HG3	2.05	0.56
1:E:479:ASN:ND2	1:Q:358:GLY:O	2.37	0.56
1:K:439:PRO:O	1:K:470:PRO:HG3	2.05	0.56
1:N:696:ARG:HH21	1:N:698:ASN:HD21	1.53	0.56
1:O:307:TRP:O	1:O:426:SER:OG	2.18	0.56
1:Q:439:PRO:O	1:Q:470:PRO:HG3	2.05	0.56
1:R:487:ARG:HG2	1:R:488:GLN:N	2.20	0.56
1:T:348:ASP:OD2	1:T:352:GLN:N	2.39	0.56
1:d:307:TRP:O	1:d:426:SER:OG	2.18	0.56
1:d:348:ASP:OD2	1:d:352:GLN:N	2.39	0.56
1:g:487:ARG:HG2	1:g:488:GLN:N	2.20	0.56
1:h:439:PRO:O	1:h:470:PRO:HG3	2.05	0.56
1:i:440:LEU:HD11	1:j:279:SER:HB2	1.88	0.56
1:r:407:ARG:HD2	1:x:225:SER:CA	2.34	0.56
1:w:487:ARG:HG2	1:w:488:GLN:N	2.20	0.56
1:1:348:ASP:OD2	1:1:352:GLN:N	2.39	0.56
1:2:348:ASP:OD2	1:2:352:GLN:N	2.39	0.56
1:2:439:PRO:O	1:2:470:PRO:HG3	2.05	0.56
1:3:487:ARG:HG2	1:3:488:GLN:N	2.20	0.56
1:4:348:ASP:OD2	1:4:352:GLN:N	2.39	0.56
1:D:358:GLY:O	1:P:479:ASN:ND2	2.37	0.56
1:I:307:TRP:O	1:I:426:SER:OG	2.18	0.56
1:K:321:ILE:HD13	1:K:343:ILE:HD11	1.86	0.56
1:Q:324:LYS:NZ	1:Q:337:ASN:OD1	2.37	0.56
1:T:225:SER:CA	1:U:407:ARG:HD2	2.33	0.56
1:U:439:PRO:O	1:U:470:PRO:HG3	2.05	0.56
1:X:531:ASP:OD1	1:X:569:LYS:NZ	2.28	0.56
1:Y:696:ARG:NE	1:Y:698:ASN:OD1	2.36	0.56
1:a:696:ARG:HH21	1:a:698:ASN:HD21	1.53	0.56
1:f:440:LEU:HD11	1:h:279:SER:HB2	1.88	0.56
1:i:358:GLY:O	1:k:479:ASN:ND2	2.38	0.56
1:l:696:ARG:HH21	1:l:698:ASN:HD21	1.53	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:n:348:ASP:OD2	1:n:352:GLN:N	2.39	0.56
1:q:626:HIS:CD2	1:s:736:ARG:HH21	2.22	0.56
1:u:348:ASP:OD2	1:u:352:GLN:N	2.39	0.56
1:2:307:TRP:O	1:2:426:SER:OG	2.18	0.56
1:5:439:PRO:O	1:5:470:PRO:HG3	2.05	0.56
1:D:487:ARG:HG2	1:D:488:GLN:N	2.20	0.56
1:I:531:ASP:OD1	1:I:569:LYS:NZ	2.28	0.56
1:J:479:ASN:ND2	1:L:358:GLY:O	2.37	0.56
1:L:348:ASP:OD2	1:L:352:GLN:N	2.39	0.56
1:M:348:ASP:OD2	1:M:352:GLN:N	2.39	0.56
1:O:348:ASP:OD2	1:O:352:GLN:N	2.39	0.56
1:S:439:PRO:O	1:S:470:PRO:HG3	2.05	0.56
1:T:479:ASN:ND2	1:d:358:GLY:O	2.37	0.56
1:V:487:ARG:HG2	1:V:488:GLN:N	2.20	0.56
1:W:696:ARG:HH21	1:W:698:ASN:HD21	1.54	0.56
1:c:307:TRP:O	1:c:426:SER:OG	2.18	0.56
1:c:531:ASP:OD1	1:c:569:LYS:NZ	2.28	0.56
1:q:696:ARG:HH21	1:q:698:ASN:HD21	1.53	0.56
1:t:348:ASP:OD2	1:t:352:GLN:N	2.39	0.56
1:5:321:ILE:HD13	1:5:343:ILE:HD11	1.86	0.56
1:5:324:LYS:NZ	1:5:337:ASN:OD1	2.37	0.56
1:5:479:ASN:ND2	1:6:358:GLY:O	2.38	0.56
1:7:696:ARG:HH21	1:7:698:ASN:HD21	1.53	0.56
1:B:348:ASP:OD2	1:B:352:GLN:N	2.39	0.56
1:D:321:ILE:HD13	1:D:343:ILE:HD11	1.86	0.56
1:D:348:ASP:OD2	1:D:352:GLN:N	2.39	0.56
1:E:696:ARG:HH21	1:E:698:ASN:HD21	1.54	0.56
1:G:348:ASP:OD2	1:G:352:GLN:N	2.39	0.56
1:G:696:ARG:HH21	1:G:698:ASN:HD21	1.53	0.56
1:J:348:ASP:OD2	1:J:352:GLN:N	2.39	0.56
1:J:439:PRO:O	1:J:470:PRO:HG3	2.05	0.56
1:K:348:ASP:OD2	1:K:352:GLN:N	2.39	0.56
1:K:487:ARG:HG2	1:K:488:GLN:N	2.20	0.56
1:M:439:PRO:O	1:M:470:PRO:HG3	2.05	0.56
1:R:348:ASP:OD2	1:R:352:GLN:N	2.39	0.56
1:S:348:ASP:OD2	1:S:352:GLN:N	2.39	0.56
1:W:440:LEU:HD11	1:Y:279:SER:HB2	1.87	0.56
1:b:348:ASP:OD2	1:b:352:GLN:N	2.39	0.56
1:c:487:ARG:HG2	1:c:488:GLN:N	2.20	0.56
1:f:315:ASN:OD1	1:f:316:PHE:N	2.39	0.56
1:i:696:ARG:HH21	1:i:698:ASN:HD21	1.53	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:j:315:ASN:OD1	1:j:316:PHE:N	2.39	0.56
1:m:487:ARG:HG2	1:m:488:GLN:N	2.20	0.56
1:p:348:ASP:OD2	1:p:352:GLN:N	2.39	0.56
1:p:696:ARG:HH21	1:p:698:ASN:HD21	1.53	0.56
1:r:696:ARG:HH21	1:r:698:ASN:HD21	1.54	0.56
1:z:696:ARG:HH21	1:z:698:ASN:HD21	1.53	0.56
1:1:315:ASN:OD1	1:1:316:PHE:N	2.39	0.56
1:3:348:ASP:OD2	1:3:352:GLN:N	2.39	0.56
1:C:348:ASP:OD2	1:C:352:GLN:N	2.39	0.56
1:E:439:PRO:O	1:E:470:PRO:HG3	2.05	0.56
1:K:358:GLY:O	1:8:479:ASN:ND2	2.37	0.56
1:N:348:ASP:OD2	1:N:352:GLN:N	2.39	0.56
1:P:348:ASP:OD2	1:P:352:GLN:N	2.39	0.56
1:Q:321:ILE:HD13	1:Q:343:ILE:HD11	1.86	0.56
1:T:315:ASN:OD1	1:T:316:PHE:N	2.39	0.56
1:X:348:ASP:OD2	1:X:352:GLN:N	2.39	0.56
1:X:439:PRO:O	1:X:470:PRO:HG3	2.05	0.56
1:Z:487:ARG:HG2	1:Z:488:GLN:N	2.20	0.56
1:a:479:ASN:ND2	1:8:358:GLY:O	2.37	0.56
1:d:440:LEU:HD11	1:l:279:SER:HB2	1.87	0.56
1:g:348:ASP:OD2	1:g:352:GLN:N	2.39	0.56
1:i:348:ASP:OD2	1:i:352:GLN:N	2.39	0.56
1:r:439:PRO:O	1:r:470:PRO:HG3	2.05	0.56
1:v:407:ARG:HD2	1:1:225:SER:CA	2.34	0.56
1:v:439:PRO:O	1:v:470:PRO:HG3	2.05	0.56
1:x:348:ASP:OD2	1:x:352:GLN:N	2.39	0.56
1:x:439:PRO:O	1:x:470:PRO:HG3	2.05	0.56
1:x:531:ASP:OD1	1:x:569:LYS:NZ	2.28	0.56
1:4:487:ARG:HG2	1:4:488:GLN:N	2.20	0.56
1:5:358:GLY:O	1:7:479:ASN:ND2	2.37	0.56
1:7:439:PRO:O	1:7:470:PRO:HG3	2.05	0.56
1:8:348:ASP:OD2	1:8:352:GLN:N	2.39	0.56
1:A:279:SER:HB2	1:I:440:LEU:HD11	1.87	0.55
1:B:315:ASN:OD1	1:B:316:PHE:N	2.39	0.55
1:C:487:ARG:HG2	1:C:488:GLN:N	2.20	0.55
1:E:315:ASN:OD1	1:E:316:PHE:N	2.39	0.55
1:I:487:ARG:HG2	1:I:488:GLN:N	2.20	0.55
1:O:479:ASN:ND2	1:m:358:GLY:O	2.37	0.55
1:S:315:ASN:OD1	1:S:316:PHE:N	2.39	0.55
1:T:407:ARG:HD2	1:i:225:SER:CA	2.33	0.55
1:T:487:ARG:HG2	1:T:488:GLN:N	2.20	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Y:348:ASP:OD2	1:Y:352:GLN:N	2.39	0.55
1:Y:696:ARG:HH21	1:Y:698:ASN:HD21	1.54	0.55
1:e:315:ASN:OD1	1:e:316:PHE:N	2.39	0.55
1:h:315:ASN:OD1	1:h:316:PHE:N	2.39	0.55
1:n:487:ARG:HG2	1:n:488:GLN:N	2.20	0.55
1:p:329:ASN:O	1:p:332:THR:OG1	2.21	0.55
1:u:315:ASN:OD1	1:u:316:PHE:N	2.39	0.55
1:u:440:LEU:HD11	1:v:279:SER:HB2	1.88	0.55
1:v:315:ASN:OD1	1:v:316:PHE:N	2.39	0.55
1:w:348:ASP:OD2	1:w:352:GLN:N	2.39	0.55
1:x:315:ASN:OD1	1:x:316:PHE:N	2.39	0.55
1:1:440:LEU:HD11	1:2:279:SER:HB2	1.87	0.55
1:1:487:ARG:HG2	1:1:488:GLN:N	2.20	0.55
1:B:564:SER:OG	1:B:566:GLU:HG2	2.07	0.55
1:I:315:ASN:OD1	1:I:316:PHE:N	2.39	0.55
1:J:440:LEU:HD11	1:L:279:SER:HB2	1.87	0.55
1:L:439:PRO:O	1:L:470:PRO:HG3	2.05	0.55
1:M:290:PHE:O	1:M:293:HIS:N	2.39	0.55
1:R:307:TRP:O	1:R:426:SER:OG	2.18	0.55
1:U:315:ASN:OD1	1:U:316:PHE:N	2.39	0.55
1:V:348:ASP:OD2	1:V:352:GLN:N	2.39	0.55
1:X:315:ASN:OD1	1:X:316:PHE:N	2.39	0.55
1:X:564:SER:OG	1:X:566:GLU:HG2	2.07	0.55
1:Y:439:PRO:O	1:Y:470:PRO:HG3	2.05	0.55
1:Z:358:GLY:O	1:3:479:ASN:ND2	2.37	0.55
1:a:348:ASP:OD2	1:a:352:GLN:N	2.39	0.55
1:b:315:ASN:OD1	1:b:316:PHE:N	2.39	0.55
1:b:564:SER:OG	1:b:566:GLU:HG2	2.07	0.55
1:c:315:ASN:OD1	1:c:316:PHE:N	2.39	0.55
1:e:348:ASP:OD2	1:e:352:GLN:N	2.39	0.55
1:g:696:ARG:HH21	1:g:698:ASN:HD21	1.53	0.55
1:k:315:ASN:OD1	1:k:316:PHE:N	2.39	0.55
1:q:440:LEU:HD11	1:r:279:SER:HB2	1.87	0.55
1:q:702:GLN:N	1:x:704:THR:OG1	2.37	0.55
1:r:348:ASP:OD2	1:r:352:GLN:N	2.39	0.55
1:w:315:ASN:OD1	1:w:316:PHE:N	2.39	0.55
1:x:564:SER:OG	1:x:566:GLU:HG2	2.07	0.55
1:y:348:ASP:OD2	1:y:352:GLN:N	2.39	0.55
1:6:696:ARG:HH21	1:6:698:ASN:HD21	1.53	0.55
1:7:315:ASN:OD1	1:7:316:PHE:N	2.39	0.55
1:7:348:ASP:OD2	1:7:352:GLN:N	2.39	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:407:ARG:HD2	1:C:225:SER:CA	2.33	0.55
1:C:439:PRO:O	1:C:470:PRO:HG3	2.05	0.55
1:C:564:SER:OG	1:C:566:GLU:HG2	2.07	0.55
1:E:348:ASP:OD2	1:E:352:GLN:N	2.39	0.55
1:G:564:SER:OG	1:G:566:GLU:HG2	2.07	0.55
1:L:487:ARG:HG2	1:L:488:GLN:N	2.20	0.55
1:L:564:SER:OG	1:L:566:GLU:HG2	2.07	0.55
1:N:564:SER:OG	1:N:566:GLU:HG2	2.07	0.55
1:O:696:ARG:HH21	1:O:698:ASN:HD21	1.53	0.55
1:Q:348:ASP:OD2	1:Q:352:GLN:N	2.39	0.55
1:a:564:SER:OG	1:a:566:GLU:HG2	2.07	0.55
1:d:564:SER:OG	1:d:566:GLU:HG2	2.07	0.55
1:o:696:ARG:HH21	1:o:698:ASN:HD21	1.53	0.55
1:p:564:SER:OG	1:p:566:GLU:HG2	2.07	0.55
1:r:440:LEU:HD11	1:s:279:SER:HB2	1.88	0.55
1:2:564:SER:OG	1:2:566:GLU:HG2	2.06	0.55
1:3:696:ARG:HH21	1:3:698:ASN:HD21	1.54	0.55
1:A:696:ARG:HH21	1:A:698:ASN:HD21	1.53	0.55
1:C:279:SER:HB2	1:M:440:LEU:HD11	1.87	0.55
1:C:440:LEU:HD11	1:b:279:SER:HB2	1.87	0.55
1:D:479:ASN:ND2	1:N:358:GLY:O	2.37	0.55
1:F:696:ARG:HH21	1:F:698:ASN:HD21	1.53	0.55
1:G:329:ASN:O	1:G:332:THR:OG1	2.21	0.55
1:J:290:PHE:O	1:J:293:HIS:N	2.39	0.55
1:L:225:SER:CA	1:b:407:ARG:HD2	2.33	0.55
1:W:315:ASN:OD1	1:W:316:PHE:N	2.39	0.55
1:Y:487:ARG:HG2	1:Y:488:GLN:N	2.20	0.55
1:Y:564:SER:OG	1:Y:566:GLU:HG2	2.07	0.55
1:g:279:SER:HB2	1:h:440:LEU:HD11	1.87	0.55
1:j:348:ASP:OD2	1:j:352:GLN:N	2.39	0.55
1:j:564:SER:OG	1:j:566:GLU:HG2	2.07	0.55
1:j:696:ARG:HH21	1:j:698:ASN:HD21	1.54	0.55
1:o:225:SER:CA	1:7:407:ARG:HD2	2.33	0.55
1:q:315:ASN:OD1	1:q:316:PHE:N	2.39	0.55
1:r:315:ASN:OD1	1:r:316:PHE:N	2.39	0.55
1:v:348:ASP:OD2	1:v:352:GLN:N	2.39	0.55
1:x:696:ARG:NE	1:x:698:ASN:OD1	2.36	0.55
1:5:696:ARG:HH21	1:5:698:ASN:HD21	1.53	0.55
1:B:279:SER:HB2	1:L:440:LEU:HD11	1.87	0.55
1:E:358:GLY:O	1:F:479:ASN:ND2	2.37	0.55
1:H:307:TRP:O	1:H:426:SER:OG	2.18	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:440:LEU:HD11	1:P:279:SER:HB2	1.87	0.55
1:P:382:THR:HG22	1:P:383:LEU:H	1.72	0.55
1:P:696:ARG:HH21	1:P:698:ASN:HD21	1.54	0.55
1:Q:696:ARG:HH21	1:Q:698:ASN:HD21	1.54	0.55
1:R:315:ASN:OD1	1:R:316:PHE:N	2.39	0.55
1:U:348:ASP:OD2	1:U:352:GLN:N	2.39	0.55
1:W:348:ASP:OD2	1:W:352:GLN:N	2.39	0.55
1:Y:315:ASN:OD1	1:Y:316:PHE:N	2.39	0.55
1:d:290:PHE:O	1:d:293:HIS:N	2.39	0.55
1:f:348:ASP:OD2	1:f:352:GLN:N	2.39	0.55
1:f:564:SER:OG	1:f:566:GLU:HG2	2.07	0.55
1:f:696:ARG:HH21	1:f:698:ASN:HD21	1.54	0.55
1:i:279:SER:HB2	1:k:440:LEU:HD11	1.87	0.55
1:k:564:SER:OG	1:k:566:GLU:HG2	2.07	0.55
1:m:348:ASP:OD2	1:m:352:GLN:N	2.39	0.55
1:n:696:ARG:HH21	1:n:698:ASN:HD21	1.53	0.55
1:r:487:ARG:HG2	1:r:488:GLN:N	2.20	0.55
1:t:315:ASN:OD1	1:t:316:PHE:N	2.39	0.55
1:w:440:LEU:HD11	1:x:279:SER:HB2	1.88	0.55
1:x:440:LEU:HD11	1:y:279:SER:HB2	1.87	0.55
1:y:382:THR:HG22	1:y:383:LEU:H	1.72	0.55
1:5:348:ASP:OD2	1:5:352:GLN:N	2.39	0.55
1:8:696:ARG:HH21	1:8:698:ASN:HD21	1.54	0.55
1:A:382:THR:HG22	1:A:383:LEU:H	1.72	0.55
1:F:382:THR:HG22	1:F:383:LEU:H	1.72	0.55
1:H:564:SER:OG	1:H:566:GLU:HG2	2.07	0.55
1:I:382:THR:HG22	1:I:383:LEU:H	1.72	0.55
1:K:279:SER:HB2	1:8:440:LEU:HD11	1.87	0.55
1:M:315:ASN:OD1	1:M:316:PHE:N	2.39	0.55
1:X:696:ARG:NE	1:X:698:ASN:OD1	2.36	0.55
1:b:329:ASN:O	1:b:332:THR:OG1	2.21	0.55
1:c:290:PHE:O	1:c:293:HIS:N	2.39	0.55
1:e:564:SER:OG	1:e:566:GLU:HG2	2.07	0.55
1:g:290:PHE:O	1:g:293:HIS:N	2.39	0.55
1:h:564:SER:OG	1:h:566:GLU:HG2	2.07	0.55
1:i:290:PHE:O	1:i:293:HIS:N	2.39	0.55
1:i:564:SER:OG	1:i:566:GLU:HG2	2.07	0.55
1:l:564:SER:OG	1:l:566:GLU:HG2	2.07	0.55
1:m:440:LEU:HD11	1:n:279:SER:HB2	1.87	0.55
1:r:564:SER:OG	1:r:566:GLU:HG2	2.07	0.55
1:w:564:SER:OG	1:w:566:GLU:HG2	2.07	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:z:564:SER:OG	1:z:566:GLU:HG2	2.06	0.55
1:2:290:PHE:O	1:2:293:HIS:N	2.39	0.55
1:6:382:THR:HG22	1:6:383:LEU:H	1.72	0.55
1:8:382:THR:HG22	1:8:383:LEU:H	1.72	0.55
1:B:696:ARG:NE	1:B:698:ASN:OD1	2.36	0.55
1:D:382:THR:HG22	1:D:383:LEU:H	1.72	0.55
1:G:307:TRP:O	1:G:426:SER:OG	2.18	0.55
1:I:348:ASP:OD2	1:I:352:GLN:N	2.39	0.55
1:I:439:PRO:O	1:I:470:PRO:HG3	2.05	0.55
1:J:315:ASN:OD1	1:J:316:PHE:N	2.39	0.55
1:J:564:SER:OG	1:J:566:GLU:HG2	2.07	0.55
1:K:696:ARG:HH21	1:K:698:ASN:HD21	1.54	0.55
1:L:315:ASN:OD1	1:L:316:PHE:N	2.39	0.55
1:M:358:GLY:O	1:b:479:ASN:ND2	2.37	0.55
1:M:382:THR:HG22	1:M:383:LEU:H	1.72	0.55
1:R:564:SER:OG	1:R:566:GLU:HG2	2.07	0.55
1:V:315:ASN:OD1	1:V:316:PHE:N	2.39	0.55
1:V:382:THR:HG22	1:V:383:LEU:H	1.72	0.55
1:W:487:ARG:HG2	1:W:488:GLN:N	2.20	0.55
1:Y:531:ASP:OD1	1:Y:569:LYS:NZ	2.28	0.55
1:Z:348:ASP:OD2	1:Z:352:GLN:N	2.39	0.55
1:a:440:LEU:HD11	1:8:279:SER:HB2	1.87	0.55
1:c:439:PRO:O	1:c:470:PRO:HG3	2.05	0.55
1:e:696:ARG:NE	1:e:698:ASN:OD1	2.36	0.55
1:g:564:SER:OG	1:g:566:GLU:HG2	2.07	0.55
1:l:329:ASN:O	1:l:332:THR:OG1	2.21	0.55
1:o:382:THR:HG22	1:o:383:LEU:H	1.72	0.55
1:q:348:ASP:OD2	1:q:352:GLN:N	2.39	0.55
1:s:307:TRP:O	1:s:426:SER:OG	2.18	0.55
1:s:564:SER:OG	1:s:566:GLU:HG2	2.07	0.55
1:u:564:SER:OG	1:u:566:GLU:HG2	2.07	0.55
1:w:358:GLY:O	1:y:479:ASN:ND2	2.37	0.55
1:x:382:THR:HG22	1:x:383:LEU:H	1.72	0.55
1:y:315:ASN:OD1	1:y:316:PHE:N	2.39	0.55
1:A:736:ARG:HH21	1:G:626:HIS:CD2	2.25	0.55
1:D:279:SER:HB2	1:P:440:LEU:HD11	1.87	0.55
1:D:315:ASN:OD1	1:D:316:PHE:N	2.39	0.55
1:J:382:THR:HG22	1:J:383:LEU:H	1.72	0.55
1:K:564:SER:OG	1:K:566:GLU:HG2	2.07	0.55
1:M:564:SER:OG	1:M:566:GLU:HG2	2.07	0.55
1:R:382:THR:HG22	1:R:383:LEU:H	1.72	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:S:290:PHE:O	1:S:293:HIS:N	2.39	0.55
1:S:564:SER:OG	1:S:566:GLU:HG2	2.07	0.55
1:T:440:LEU:HD11	1:d:279:SER:HB2	1.88	0.55
1:U:487:ARG:HG2	1:U:488:GLN:N	2.20	0.55
1:V:279:SER:HB2	1:X:440:LEU:HD11	1.87	0.55
1:V:564:SER:OG	1:V:566:GLU:HG2	2.07	0.55
1:g:382:THR:HG22	1:g:383:LEU:H	1.72	0.55
1:h:348:ASP:OD2	1:h:352:GLN:N	2.39	0.55
1:h:696:ARG:HH21	1:h:698:ASN:HD21	1.53	0.55
1:k:696:ARG:HH21	1:k:698:ASN:HD21	1.53	0.55
1:l:348:ASP:OD2	1:l:352:GLN:N	2.39	0.55
1:l:382:THR:HG22	1:l:383:LEU:H	1.72	0.55
1:m:315:ASN:OD1	1:m:316:PHE:N	2.39	0.55
1:q:487:ARG:HG2	1:q:488:GLN:N	2.20	0.55
1:r:531:ASP:OD1	1:r:569:LYS:NZ	2.28	0.55
1:s:696:ARG:HH21	1:s:698:ASN:HD21	1.54	0.55
1:t:564:SER:OG	1:t:566:GLU:HG2	2.07	0.55
1:3:564:SER:OG	1:3:566:GLU:HG2	2.07	0.55
1:4:564:SER:OG	1:4:566:GLU:HG2	2.07	0.55
1:5:382:THR:HG22	1:5:383:LEU:H	1.72	0.55
1:6:348:ASP:OD2	1:6:352:GLN:N	2.39	0.55
1:6:479:ASN:ND2	1:7:358:GLY:O	2.37	0.55
1:B:329:ASN:O	1:B:332:THR:OG1	2.21	0.55
1:C:315:ASN:OD1	1:C:316:PHE:N	2.39	0.55
1:D:564:SER:OG	1:D:566:GLU:HG2	2.07	0.55
1:D:696:ARG:HH21	1:D:698:ASN:HD21	1.53	0.55
1:E:329:ASN:O	1:E:332:THR:OG1	2.21	0.55
1:E:382:THR:HG22	1:E:383:LEU:H	1.72	0.55
1:F:348:ASP:OD2	1:F:352:GLN:N	2.39	0.55
1:H:348:ASP:OD2	1:H:352:GLN:N	2.39	0.55
1:I:290:PHE:O	1:I:293:HIS:N	2.39	0.55
1:K:315:ASN:OD1	1:K:316:PHE:N	2.39	0.55
1:K:382:THR:HG22	1:K:383:LEU:H	1.72	0.55
1:N:290:PHE:O	1:N:293:HIS:N	2.39	0.55
1:O:564:SER:OG	1:O:566:GLU:HG2	2.07	0.55
1:Q:382:THR:HG22	1:Q:383:LEU:H	1.72	0.55
1:S:479:ASN:ND2	1:U:358:GLY:O	2.37	0.55
1:T:329:ASN:O	1:T:332:THR:OG1	2.21	0.55
1:a:290:PHE:O	1:a:293:HIS:N	2.39	0.55
1:a:315:ASN:OD1	1:a:316:PHE:N	2.39	0.55
1:b:696:ARG:NE	1:b:698:ASN:OD1	2.36	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:c:348:ASP:OD2	1:c:352:GLN:N	2.39	0.55
1:j:696:ARG:NE	1:j:698:ASN:OD1	2.36	0.55
1:n:564:SER:OG	1:n:566:GLU:HG2	2.07	0.55
1:q:279:SER:HB2	1:s:440:LEU:HD11	1.87	0.55
1:s:348:ASP:OD2	1:s:352:GLN:N	2.39	0.55
1:t:382:THR:HG22	1:t:383:LEU:H	1.72	0.55
1:v:487:ARG:HG2	1:v:488:GLN:N	2.20	0.55
1:w:696:ARG:NE	1:w:698:ASN:OD1	2.36	0.55
1:y:564:SER:OG	1:y:566:GLU:HG2	2.07	0.55
1:z:348:ASP:OD2	1:z:352:GLN:N	2.39	0.55
1:z:382:THR:HG22	1:z:383:LEU:H	1.72	0.55
1:4:315:ASN:OD1	1:4:316:PHE:N	2.39	0.55
1:4:696:ARG:HH21	1:4:698:ASN:HD21	1.53	0.55
1:7:704:THR:OG1	1:8:702:GLN:N	2.37	0.55
1:A:348:ASP:OD2	1:A:352:GLN:N	2.39	0.55
1:B:696:ARG:HH21	1:B:698:ASN:HD21	1.53	0.55
1:E:696:ARG:NE	1:E:698:ASN:OD1	2.36	0.55
1:E:704:THR:OG1	1:P:702:GLN:N	2.37	0.55
1:F:315:ASN:OD1	1:F:316:PHE:N	2.39	0.55
1:H:696:ARG:HH21	1:H:698:ASN:HD21	1.54	0.55
1:K:479:ASN:ND2	1:a:358:GLY:O	2.37	0.55
1:N:315:ASN:OD1	1:N:316:PHE:N	2.39	0.55
1:N:382:THR:HG22	1:N:383:LEU:H	1.72	0.55
1:P:315:ASN:OD1	1:P:316:PHE:N	2.39	0.55
1:R:696:ARG:HH21	1:R:698:ASN:HD21	1.53	0.55
1:U:696:ARG:HH21	1:U:698:ASN:HD21	1.53	0.55
1:X:382:THR:HG22	1:X:383:LEU:H	1.72	0.55
1:X:382:THR:HG21	1:X:394:SER:H	1.72	0.55
1:Y:382:THR:HG22	1:Y:383:LEU:H	1.72	0.55
1:Z:315:ASN:OD1	1:Z:316:PHE:N	2.39	0.55
1:a:382:THR:HG22	1:a:383:LEU:H	1.72	0.55
1:c:382:THR:HG22	1:c:383:LEU:H	1.72	0.55
1:i:315:ASN:OD1	1:i:316:PHE:N	2.39	0.55
1:i:382:THR:HG22	1:i:383:LEU:H	1.72	0.55
1:k:340:THR:HB	1:k:407:ARG:HH21	1.73	0.55
1:k:348:ASP:OD2	1:k:352:GLN:N	2.39	0.55
1:l:290:PHE:O	1:l:293:HIS:N	2.39	0.55
1:m:696:ARG:HH21	1:m:698:ASN:HD21	1.53	0.55
1:s:290:PHE:O	1:s:293:HIS:N	2.39	0.55
1:u:290:PHE:O	1:u:293:HIS:N	2.39	0.55
1:7:382:THR:HG22	1:7:383:LEU:H	1.72	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:8:315:ASN:OD1	1:8:316:PHE:N	2.39	0.55
1:B:479:ASN:ND2	1:J:358:GLY:O	2.37	0.54
1:D:382:THR:HG21	1:D:394:SER:H	1.73	0.54
1:E:564:SER:OG	1:E:566:GLU:HG2	2.07	0.54
1:G:315:ASN:OD1	1:G:316:PHE:N	2.39	0.54
1:H:290:PHE:O	1:H:293:HIS:N	2.39	0.54
1:K:382:THR:HG21	1:K:394:SER:H	1.73	0.54
1:P:696:ARG:NE	1:P:698:ASN:OD1	2.36	0.54
1:Q:315:ASN:OD1	1:Q:316:PHE:N	2.39	0.54
1:R:307:TRP:CE2	1:R:692:GLU:HG2	2.43	0.54
1:S:382:THR:HG22	1:S:383:LEU:H	1.72	0.54
1:g:315:ASN:OD1	1:g:316:PHE:N	2.39	0.54
1:n:307:TRP:CE2	1:n:692:GLU:HG2	2.43	0.54
1:n:315:ASN:OD1	1:n:316:PHE:N	2.39	0.54
1:r:382:THR:HG22	1:r:383:LEU:H	1.72	0.54
1:t:696:ARG:HH21	1:t:698:ASN:HD21	1.54	0.54
1:u:382:THR:HG22	1:u:383:LEU:H	1.72	0.54
1:x:382:THR:HG21	1:x:394:SER:H	1.73	0.54
1:y:696:ARG:HH21	1:y:698:ASN:HD21	1.54	0.54
1:z:290:PHE:O	1:z:293:HIS:N	2.39	0.54
1:z:382:THR:HG21	1:z:394:SER:H	1.72	0.54
1:3:279:SER:HB2	1:4:440:LEU:HD11	1.87	0.54
1:5:315:ASN:OD1	1:5:316:PHE:N	2.39	0.54
1:6:315:ASN:OD1	1:6:316:PHE:N	2.39	0.54
1:7:382:THR:HG21	1:7:394:SER:H	1.72	0.54
1:7:564:SER:OG	1:7:566:GLU:HG2	2.07	0.54
1:7:696:ARG:NE	1:7:698:ASN:OD1	2.36	0.54
1:G:382:THR:HG21	1:G:394:SER:H	1.73	0.54
1:H:315:ASN:OD1	1:H:316:PHE:N	2.39	0.54
1:L:307:TRP:CE2	1:L:692:GLU:HG2	2.43	0.54
1:O:279:SER:HB2	1:n:440:LEU:HD11	1.88	0.54
1:T:307:TRP:CE2	1:T:692:GLU:HG2	2.43	0.54
1:U:307:TRP:CE2	1:U:692:GLU:HG2	2.43	0.54
1:V:696:ARG:HH21	1:V:698:ASN:HD21	1.53	0.54
1:Z:696:ARG:HH21	1:Z:698:ASN:HD21	1.54	0.54
1:b:307:TRP:CE2	1:b:692:GLU:HG2	2.43	0.54
1:e:382:THR:HG21	1:e:394:SER:H	1.73	0.54
1:f:696:ARG:NE	1:f:698:ASN:OD1	2.36	0.54
1:h:340:THR:HB	1:h:407:ARG:HH21	1.73	0.54
1:n:382:THR:HG22	1:n:383:LEU:H	1.72	0.54
1:o:348:ASP:OD2	1:o:352:GLN:N	2.39	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:p:382:THR:HG21	1:p:394:SER:H	1.73	0.54
1:s:315:ASN:OD1	1:s:316:PHE:N	2.39	0.54
1:t:307:TRP:CE2	1:t:692:GLU:HG2	2.43	0.54
1:u:696:ARG:HH21	1:u:698:ASN:HD21	1.53	0.54
1:v:382:THR:HG22	1:v:383:LEU:H	1.72	0.54
1:v:696:ARG:HH21	1:v:698:ASN:HD21	1.53	0.54
1:w:307:TRP:CE2	1:w:692:GLU:HG2	2.43	0.54
1:y:531:ASP:OD1	1:y:569:LYS:NZ	2.28	0.54
1:z:307:TRP:CE2	1:z:692:GLU:HG2	2.43	0.54
1:1:329:ASN:O	1:1:332:THR:OG1	2.21	0.54
1:4:307:TRP:CE2	1:4:692:GLU:HG2	2.43	0.54
1:6:564:SER:OG	1:6:566:GLU:HG2	2.07	0.54
1:A:315:ASN:OD1	1:A:316:PHE:N	2.39	0.54
1:B:307:TRP:CE2	1:B:692:GLU:HG2	2.43	0.54
1:C:307:TRP:CE2	1:C:692:GLU:HG2	2.43	0.54
1:E:290:PHE:O	1:E:293:HIS:N	2.39	0.54
1:E:382:THR:HG21	1:E:394:SER:H	1.73	0.54
1:H:440:LEU:HD11	1:W:279:SER:HB2	1.88	0.54
1:I:307:TRP:CE2	1:I:692:GLU:HG2	2.43	0.54
1:J:307:TRP:CE2	1:J:692:GLU:HG2	2.43	0.54
1:L:382:THR:HG22	1:L:383:LEU:H	1.72	0.54
1:S:696:ARG:HH21	1:S:698:ASN:HD21	1.54	0.54
1:V:479:ASN:ND2	1:e:358:GLY:O	2.37	0.54
1:W:564:SER:OG	1:W:566:GLU:HG2	2.07	0.54
1:Z:440:LEU:HD11	1:4:279:SER:HB2	1.88	0.54
1:b:696:ARG:HH21	1:b:698:ASN:HD21	1.54	0.54
1:d:340:THR:HB	1:d:407:ARG:HH21	1.73	0.54
1:e:307:TRP:CE2	1:e:692:GLU:HG2	2.43	0.54
1:g:307:TRP:CE2	1:g:692:GLU:HG2	2.43	0.54
1:h:382:THR:HG22	1:h:383:LEU:H	1.72	0.54
1:i:307:TRP:CE2	1:i:692:GLU:HG2	2.43	0.54
1:l:260:GLN:NE2	1:l:276:PHE:HE1	2.06	0.54
1:l:307:TRP:CE2	1:l:692:GLU:HG2	2.43	0.54
1:l:382:THR:HG21	1:l:394:SER:H	1.73	0.54
1:o:704:THR:OG1	1:6:702:GLN:N	2.36	0.54
1:p:290:PHE:O	1:p:293:HIS:N	2.39	0.54
1:p:315:ASN:OD1	1:p:316:PHE:N	2.39	0.54
1:q:260:GLN:NE2	1:q:276:PHE:HE1	2.06	0.54
1:q:564:SER:OG	1:q:566:GLU:HG2	2.07	0.54
1:v:307:TRP:CE2	1:v:692:GLU:HG2	2.43	0.54
1:w:382:THR:HG21	1:w:394:SER:H	1.73	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:z:260:GLN:NE2	1:z:276:PHE:HE1	2.06	0.54
1:z:315:ASN:OD1	1:z:316:PHE:N	2.39	0.54
1:1:307:TRP:CE2	1:1:692:GLU:HG2	2.43	0.54
1:1:564:SER:OG	1:1:566:GLU:HG2	2.07	0.54
1:2:340:THR:HB	1:2:407:ARG:HH21	1.73	0.54
1:7:290:PHE:O	1:7:293:HIS:N	2.39	0.54
1:C:382:THR:HG21	1:C:394:SER:H	1.73	0.54
1:F:564:SER:OG	1:F:566:GLU:HG2	2.07	0.54
1:G:260:GLN:NE2	1:G:276:PHE:HE1	2.06	0.54
1:G:290:PHE:O	1:G:293:HIS:N	2.39	0.54
1:G:298:ASP:OD1	1:G:301:ARG:NH1	2.41	0.54
1:I:298:ASP:OD1	1:I:301:ARG:NH1	2.41	0.54
1:J:340:THR:HB	1:J:407:ARG:HH21	1.73	0.54
1:K:225:SER:CA	1:L:407:ARG:HD2	2.33	0.54
1:M:307:TRP:CE2	1:M:692:GLU:HG2	2.43	0.54
1:N:382:THR:HG21	1:N:394:SER:H	1.73	0.54
1:R:382:THR:HG21	1:R:394:SER:H	1.73	0.54
1:S:260:GLN:NE2	1:S:276:PHE:HE1	2.06	0.54
1:U:382:THR:HG22	1:U:383:LEU:H	1.72	0.54
1:W:307:TRP:CE2	1:W:692:GLU:HG2	2.43	0.54
1:X:307:TRP:CE2	1:X:692:GLU:HG2	2.43	0.54
1:Z:260:GLN:NE2	1:Z:276:PHE:HE1	2.06	0.54
1:c:307:TRP:CE2	1:c:692:GLU:HG2	2.43	0.54
1:d:298:ASP:OD1	1:d:301:ARG:NH1	2.41	0.54
1:l:298:ASP:OD1	1:l:301:ARG:NH1	2.41	0.54
1:l:315:ASN:OD1	1:l:316:PHE:N	2.39	0.54
1:o:315:ASN:OD1	1:o:316:PHE:N	2.39	0.54
1:o:382:THR:HG21	1:o:394:SER:H	1.73	0.54
1:p:260:GLN:NE2	1:p:276:PHE:HE1	2.06	0.54
1:p:298:ASP:OD1	1:p:301:ARG:NH1	2.41	0.54
1:q:307:TRP:CE2	1:q:692:GLU:HG2	2.43	0.54
1:t:340:THR:HB	1:t:407:ARG:HH21	1.73	0.54
1:t:382:THR:HG21	1:t:394:SER:H	1.73	0.54
1:u:260:GLN:NE2	1:u:276:PHE:HE1	2.06	0.54
1:x:307:TRP:CE2	1:x:692:GLU:HG2	2.43	0.54
1:z:298:ASP:OD1	1:z:301:ARG:NH1	2.41	0.54
1:1:298:ASP:OD1	1:1:301:ARG:NH1	2.41	0.54
1:3:340:THR:HB	1:3:407:ARG:HH21	1.73	0.54
1:4:382:THR:HG22	1:4:383:LEU:H	1.72	0.54
1:8:564:SER:OG	1:8:566:GLU:HG2	2.07	0.54
1:8:696:ARG:NE	1:8:698:ASN:OD1	2.36	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:382:THR:HG21	1:A:394:SER:H	1.73	0.54
1:C:407:ARG:HD2	1:D:225:SER:CA	2.33	0.54
1:F:298:ASP:OD1	1:F:301:ARG:NH1	2.41	0.54
1:H:298:ASP:OD1	1:H:301:ARG:NH1	2.41	0.54
1:H:382:THR:HG21	1:H:394:SER:H	1.73	0.54
1:L:382:THR:HG21	1:L:394:SER:H	1.73	0.54
1:O:340:THR:HB	1:O:407:ARG:HH21	1.73	0.54
1:O:382:THR:HG22	1:O:383:LEU:H	1.72	0.54
1:P:225:SER:CA	1:Q:407:ARG:HD2	2.33	0.54
1:P:307:TRP:CE2	1:P:692:GLU:HG2	2.43	0.54
1:P:564:SER:OG	1:P:566:GLU:HG2	2.07	0.54
1:Q:564:SER:OG	1:Q:566:GLU:HG2	2.07	0.54
1:Q:696:ARG:NE	1:Q:698:ASN:OD1	2.36	0.54
1:R:340:THR:HB	1:R:407:ARG:HH21	1.73	0.54
1:S:307:TRP:O	1:S:426:SER:OG	2.18	0.54
1:T:298:ASP:OD1	1:T:301:ARG:NH1	2.41	0.54
1:T:340:THR:HB	1:T:407:ARG:HH21	1.73	0.54
1:T:564:SER:OG	1:T:566:GLU:HG2	2.06	0.54
1:U:298:ASP:OD1	1:U:301:ARG:NH1	2.41	0.54
1:U:564:SER:OG	1:U:566:GLU:HG2	2.07	0.54
1:V:340:THR:HB	1:V:407:ARG:HH21	1.73	0.54
1:W:260:GLN:NE2	1:W:276:PHE:HE1	2.06	0.54
1:W:696:ARG:NE	1:W:698:ASN:OD1	2.36	0.54
1:Z:307:TRP:CE2	1:Z:692:GLU:HG2	2.43	0.54
1:a:382:THR:HG21	1:a:394:SER:H	1.73	0.54
1:c:298:ASP:OD1	1:c:301:ARG:NH1	2.41	0.54
1:e:260:GLN:NE2	1:e:276:PHE:HE1	2.06	0.54
1:i:298:ASP:OD1	1:i:301:ARG:NH1	2.41	0.54
1:j:382:THR:HG22	1:j:383:LEU:H	1.72	0.54
1:k:382:THR:HG22	1:k:383:LEU:H	1.72	0.54
1:m:260:GLN:NE2	1:m:276:PHE:HE1	2.06	0.54
1:m:564:SER:OG	1:m:566:GLU:HG2	2.07	0.54
1:o:564:SER:OG	1:o:566:GLU:HG2	2.07	0.54
1:q:382:THR:HG22	1:q:383:LEU:H	1.72	0.54
1:u:340:THR:HB	1:u:407:ARG:HH21	1.73	0.54
1:v:298:ASP:OD1	1:v:301:ARG:NH1	2.41	0.54
1:v:564:SER:OG	1:v:566:GLU:HG2	2.07	0.54
1:w:260:GLN:NE2	1:w:276:PHE:HE1	2.06	0.54
1:w:696:ARG:HH21	1:w:698:ASN:HD21	1.53	0.54
1:y:307:TRP:CE2	1:y:692:GLU:HG2	2.43	0.54
1:y:340:THR:HB	1:y:407:ARG:HH21	1.73	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:2:315:ASN:OD1	1:2:316:PHE:N	2.39	0.54
1:3:382:THR:HG22	1:3:383:LEU:H	1.72	0.54
1:5:564:SER:OG	1:5:566:GLU:HG2	2.07	0.54
1:6:298:ASP:OD1	1:6:301:ARG:NH1	2.41	0.54
1:6:340:THR:HB	1:6:407:ARG:HH21	1.73	0.54
1:A:340:THR:HB	1:A:407:ARG:HH21	1.73	0.54
1:A:393:SER:O	1:I:696:ARG:NH2	2.40	0.54
1:C:382:THR:HG22	1:C:383:LEU:H	1.72	0.54
1:F:340:THR:HB	1:F:407:ARG:HH21	1.73	0.54
1:M:340:THR:HB	1:M:407:ARG:HH21	1.73	0.54
1:M:696:ARG:NE	1:M:698:ASN:OD1	2.36	0.54
1:O:315:ASN:OD1	1:O:316:PHE:N	2.39	0.54
1:Z:564:SER:OG	1:Z:566:GLU:HG2	2.07	0.54
1:c:382:THR:HG21	1:c:394:SER:H	1.72	0.54
1:d:315:ASN:OD1	1:d:316:PHE:N	2.39	0.54
1:f:382:THR:HG22	1:f:383:LEU:H	1.72	0.54
1:g:298:ASP:OD1	1:g:301:ARG:NH1	2.41	0.54
1:h:382:THR:HG21	1:h:394:SER:H	1.73	0.54
1:k:260:GLN:NE2	1:k:276:PHE:HE1	2.06	0.54
1:m:307:TRP:CE2	1:m:692:GLU:HG2	2.43	0.54
1:r:307:TRP:CE2	1:r:692:GLU:HG2	2.43	0.54
1:s:298:ASP:OD1	1:s:301:ARG:NH1	2.41	0.54
1:s:382:THR:HG21	1:s:394:SER:H	1.73	0.54
1:u:479:ASN:ND2	1:v:358:GLY:O	2.38	0.54
1:v:260:GLN:NE2	1:v:276:PHE:HE1	2.06	0.54
1:1:340:THR:HB	1:1:407:ARG:HH21	1.73	0.54
1:2:298:ASP:OD1	1:2:301:ARG:NH1	2.41	0.54
1:5:340:THR:HB	1:5:407:ARG:HH21	1.73	0.54
1:5:407:ARG:HD2	1:8:225:SER:CA	2.34	0.54
1:8:307:TRP:CE2	1:8:692:GLU:HG2	2.43	0.54
1:A:564:SER:OG	1:A:566:GLU:HG2	2.07	0.54
1:C:696:ARG:NE	1:C:698:ASN:OD1	2.36	0.54
1:H:307:TRP:CE2	1:H:692:GLU:HG2	2.43	0.54
1:L:298:ASP:OD1	1:L:301:ARG:NH1	2.41	0.54
1:L:696:ARG:NE	1:L:698:ASN:OD1	2.36	0.54
1:N:307:TRP:CE2	1:N:692:GLU:HG2	2.43	0.54
1:O:298:ASP:OD1	1:O:301:ARG:NH1	2.41	0.54
1:Q:298:ASP:OD1	1:Q:301:ARG:NH1	2.41	0.54
1:Q:340:THR:HB	1:Q:407:ARG:HH21	1.73	0.54
1:S:340:THR:HB	1:S:407:ARG:HH21	1.73	0.54
1:T:382:THR:HG21	1:T:394:SER:H	1.73	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:V:307:TRP:CE2	1:V:692:GLU:HG2	2.43	0.54
1:W:382:THR:HG22	1:W:383:LEU:H	1.72	0.54
1:Y:307:TRP:CE2	1:Y:692:GLU:HG2	2.43	0.54
1:a:307:TRP:CE2	1:a:692:GLU:HG2	2.43	0.54
1:e:696:ARG:HH21	1:e:698:ASN:HD21	1.53	0.54
1:h:260:GLN:NE2	1:h:276:PHE:HE1	2.06	0.54
1:k:382:THR:HG21	1:k:394:SER:H	1.73	0.54
1:n:382:THR:HG21	1:n:394:SER:H	1.73	0.54
1:q:696:ARG:NE	1:q:698:ASN:OD1	2.36	0.54
1:1:382:THR:HG21	1:1:394:SER:H	1.73	0.54
1:3:298:ASP:OD1	1:3:301:ARG:NH1	2.41	0.54
1:4:382:THR:HG21	1:4:394:SER:H	1.73	0.54
1:5:298:ASP:OD1	1:5:301:ARG:NH1	2.41	0.54
1:6:382:THR:HG21	1:6:394:SER:H	1.73	0.54
1:8:260:GLN:NE2	1:8:276:PHE:HE1	2.06	0.54
1:B:382:THR:HG22	1:B:383:LEU:H	1.72	0.54
1:C:298:ASP:OD1	1:C:301:ARG:NH1	2.41	0.54
1:D:307:TRP:CE2	1:D:692:GLU:HG2	2.43	0.54
1:E:307:TRP:CE2	1:E:692:GLU:HG2	2.43	0.54
1:F:307:TRP:CE2	1:F:692:GLU:HG2	2.43	0.54
1:F:382:THR:HG21	1:F:394:SER:H	1.73	0.54
1:G:382:THR:HG22	1:G:383:LEU:H	1.72	0.54
1:I:382:THR:HG21	1:I:394:SER:H	1.73	0.54
1:S:298:ASP:OD1	1:S:301:ARG:NH1	2.41	0.54
1:U:260:GLN:NE2	1:U:276:PHE:HE1	2.06	0.54
1:c:564:SER:OG	1:c:566:GLU:HG2	2.07	0.54
1:d:702:GLN:H	1:n:704:THR:HG1	1.56	0.54
1:g:382:THR:HG21	1:g:394:SER:H	1.73	0.54
1:o:340:THR:HB	1:o:407:ARG:HH21	1.73	0.54
1:p:382:THR:HG22	1:p:383:LEU:H	1.72	0.54
1:s:307:TRP:CE2	1:s:692:GLU:HG2	2.43	0.54
1:3:315:ASN:OD1	1:3:316:PHE:N	2.39	0.54
1:6:260:GLN:NE2	1:6:276:PHE:HE1	2.06	0.54
1:7:307:TRP:CE2	1:7:692:GLU:HG2	2.43	0.54
1:A:307:TRP:CE2	1:A:692:GLU:HG2	2.43	0.54
1:D:298:ASP:OD1	1:D:301:ARG:NH1	2.41	0.54
1:F:260:GLN:NE2	1:F:276:PHE:HE1	2.06	0.54
1:K:298:ASP:OD1	1:K:301:ARG:NH1	2.41	0.54
1:M:298:ASP:OD1	1:M:301:ARG:NH1	2.41	0.54
1:P:260:GLN:NE2	1:P:276:PHE:HE1	2.06	0.54
1:V:298:ASP:OD1	1:V:301:ARG:NH1	2.41	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:W:479:ASN:ND2	1:Y:358:GLY:O	2.37	0.54
1:Y:340:THR:HB	1:Y:407:ARG:HH21	1.73	0.54
1:Z:298:ASP:OD1	1:Z:301:ARG:NH1	2.41	0.54
1:Z:340:THR:HB	1:Z:407:ARG:HH21	1.73	0.54
1:Z:382:THR:HG21	1:Z:394:SER:H	1.72	0.54
1:f:260:GLN:NE2	1:f:276:PHE:HE1	2.06	0.54
1:j:260:GLN:NE2	1:j:276:PHE:HE1	2.06	0.54
1:j:382:THR:HG21	1:j:394:SER:H	1.73	0.54
1:m:298:ASP:OD1	1:m:301:ARG:NH1	2.41	0.54
1:n:260:GLN:NE2	1:n:276:PHE:HE1	2.06	0.54
1:p:340:THR:HB	1:p:407:ARG:HH21	1.73	0.54
1:r:340:THR:HB	1:r:407:ARG:HH21	1.73	0.54
1:t:298:ASP:OD1	1:t:301:ARG:NH1	2.41	0.54
1:w:531:ASP:OD1	1:w:569:LYS:NZ	2.28	0.54
1:w:696:ARG:NH2	1:x:393:SER:O	2.41	0.54
1:2:382:THR:HG21	1:2:394:SER:H	1.73	0.54
1:3:382:THR:HG21	1:3:394:SER:H	1.73	0.54
1:4:260:GLN:NE2	1:4:276:PHE:HE1	2.06	0.54
1:5:696:ARG:NE	1:5:698:ASN:OD1	2.36	0.54
1:6:307:TRP:CE2	1:6:692:GLU:HG2	2.43	0.54
1:A:702:GLN:N	1:F:704:THR:OG1	2.35	0.54
1:D:260:GLN:NE2	1:D:276:PHE:HE1	2.06	0.54
1:G:340:THR:HB	1:G:407:ARG:HH21	1.73	0.54
1:H:260:GLN:NE2	1:H:276:PHE:HE1	2.06	0.54
1:I:329:ASN:O	1:I:332:THR:OG1	2.21	0.54
1:I:564:SER:OG	1:I:566:GLU:HG2	2.07	0.54
1:J:298:ASP:OD1	1:J:301:ARG:NH1	2.41	0.54
1:J:696:ARG:NE	1:J:698:ASN:OD1	2.36	0.54
1:K:307:TRP:CE2	1:K:692:GLU:HG2	2.43	0.54
1:Q:382:THR:HG21	1:Q:394:SER:H	1.73	0.54
1:R:298:ASP:OD1	1:R:301:ARG:NH1	2.41	0.54
1:T:382:THR:HG22	1:T:383:LEU:H	1.72	0.54
1:X:260:GLN:NE2	1:X:276:PHE:HE1	2.06	0.54
1:b:382:THR:HG22	1:b:383:LEU:H	1.72	0.54
1:d:382:THR:HG21	1:d:394:SER:H	1.73	0.54
1:f:382:THR:HG21	1:f:394:SER:H	1.73	0.54
1:i:382:THR:HG21	1:i:394:SER:H	1.73	0.54
1:m:382:THR:HG22	1:m:383:LEU:H	1.72	0.54
1:p:307:TRP:CE2	1:p:692:GLU:HG2	2.43	0.54
1:q:479:ASN:ND2	1:r:358:GLY:O	2.37	0.54
1:r:329:ASN:O	1:r:332:THR:OG1	2.21	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:u:298:ASP:OD1	1:u:301:ARG:NH1	2.41	0.54
1:1:290:PHE:O	1:1:293:HIS:N	2.39	0.54
1:5:307:TRP:CE2	1:5:692:GLU:HG2	2.43	0.54
1:G:307:TRP:CE2	1:G:692:GLU:HG2	2.43	0.53
1:H:700:GLU:HB2	1:H:702:GLN:HE21	1.74	0.53
1:K:260:GLN:NE2	1:K:276:PHE:HE1	2.06	0.53
1:N:260:GLN:NE2	1:N:276:PHE:HE1	2.06	0.53
1:O:382:THR:HG21	1:O:394:SER:H	1.73	0.53
1:P:298:ASP:OD1	1:P:301:ARG:NH1	2.41	0.53
1:T:290:PHE:O	1:T:293:HIS:N	2.39	0.53
1:a:260:GLN:NE2	1:a:276:PHE:HE1	2.06	0.53
1:b:382:THR:HG21	1:b:394:SER:H	1.73	0.53
1:d:329:ASN:O	1:d:332:THR:OG1	2.21	0.53
1:i:696:ARG:NH2	1:j:393:SER:O	2.42	0.53
1:j:307:TRP:CE2	1:j:692:GLU:HG2	2.43	0.53
1:m:340:THR:HB	1:m:407:ARG:HH21	1.73	0.53
1:r:298:ASP:OD1	1:r:301:ARG:NH1	2.41	0.53
1:s:260:GLN:NE2	1:s:276:PHE:HE1	2.06	0.53
1:t:329:ASN:O	1:t:332:THR:OG1	2.21	0.53
1:u:382:THR:HG21	1:u:394:SER:H	1.73	0.53
1:v:700:GLU:HB2	1:v:702:GLN:HE21	1.74	0.53
1:x:260:GLN:NE2	1:x:276:PHE:HE1	2.06	0.53
1:y:298:ASP:OD1	1:y:301:ARG:NH1	2.41	0.53
1:1:382:THR:HG22	1:1:383:LEU:H	1.72	0.53
1:8:298:ASP:OD1	1:8:301:ARG:NH1	2.41	0.53
1:A:305:ASN:OD1	1:F:305:ASN:ND2	2.41	0.53
1:B:382:THR:HG21	1:B:394:SER:H	1.73	0.53
1:C:700:GLU:HB2	1:C:702:GLN:HE21	1.74	0.53
1:E:260:GLN:NE2	1:E:276:PHE:HE1	2.06	0.53
1:L:700:GLU:HB2	1:L:702:GLN:HE21	1.74	0.53
1:Q:307:TRP:CE2	1:Q:692:GLU:HG2	2.43	0.53
1:S:382:THR:HG21	1:S:394:SER:H	1.73	0.53
1:U:382:THR:HG21	1:U:394:SER:H	1.73	0.53
1:U:700:GLU:HB2	1:U:702:GLN:HE21	1.74	0.53
1:W:340:THR:HB	1:W:407:ARG:HH21	1.73	0.53
1:X:298:ASP:OD1	1:X:301:ARG:NH1	2.41	0.53
1:X:340:THR:HB	1:X:407:ARG:HH21	1.73	0.53
1:Z:382:THR:HG22	1:Z:383:LEU:H	1.72	0.53
1:d:702:GLN:N	1:n:704:THR:OG1	2.36	0.53
1:e:298:ASP:OD1	1:e:301:ARG:NH1	2.41	0.53
1:h:298:ASP:OD1	1:h:301:ARG:NH1	2.41	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:o:307:TRP:CE2	1:o:692:GLU:HG2	2.43	0.53
1:q:340:THR:HB	1:q:407:ARG:HH21	1.73	0.53
1:s:382:THR:HG22	1:s:383:LEU:H	1.72	0.53
1:s:700:GLU:HB2	1:s:702:GLN:HE21	1.74	0.53
1:w:298:ASP:OD1	1:w:301:ARG:NH1	2.41	0.53
1:x:696:ARG:NH2	1:y:393:SER:O	2.41	0.53
1:5:382:THR:HG21	1:5:394:SER:H	1.73	0.53
1:7:340:THR:HB	1:7:407:ARG:HH21	1.73	0.53
1:E:340:THR:HB	1:E:407:ARG:HH21	1.73	0.53
1:K:340:THR:HB	1:K:407:ARG:HH21	1.73	0.53
1:P:382:THR:HG21	1:P:394:SER:H	1.73	0.53
1:P:700:GLU:HB2	1:P:702:GLN:HE21	1.74	0.53
1:V:393:SER:O	1:X:696:ARG:NH2	2.42	0.53
1:X:393:SER:O	1:e:696:ARG:NH2	2.42	0.53
1:Y:298:ASP:OD1	1:Y:301:ARG:NH1	2.41	0.53
1:Y:329:ASN:O	1:Y:332:THR:OG1	2.21	0.53
1:c:329:ASN:O	1:c:332:THR:OG1	2.21	0.53
1:c:340:THR:HB	1:c:407:ARG:HH21	1.73	0.53
1:e:382:THR:HG22	1:e:383:LEU:H	1.72	0.53
1:f:307:TRP:CE2	1:f:692:GLU:HG2	2.43	0.53
1:g:700:GLU:HB2	1:g:702:GLN:HE21	1.74	0.53
1:i:700:GLU:HB2	1:i:702:GLN:HE21	1.74	0.53
1:k:298:ASP:OD1	1:k:301:ARG:NH1	2.41	0.53
1:l:340:THR:HB	1:l:407:ARG:HH21	1.73	0.53
1:m:382:THR:HG21	1:m:394:SER:H	1.73	0.53
1:q:382:THR:HG21	1:q:394:SER:H	1.72	0.53
1:x:298:ASP:OD1	1:x:301:ARG:NH1	2.41	0.53
1:x:340:THR:HB	1:x:407:ARG:HH21	1.73	0.53
1:y:382:THR:HG21	1:y:394:SER:H	1.73	0.53
1:2:307:TRP:CE2	1:2:692:GLU:HG2	2.43	0.53
1:2:702:GLN:N	1:4:704:THR:OG1	2.36	0.53
1:4:298:ASP:OD1	1:4:301:ARG:NH1	2.41	0.53
1:8:340:THR:HB	1:8:407:ARG:HH21	1.73	0.53
1:8:382:THR:HG21	1:8:394:SER:H	1.73	0.53
1:8:700:GLU:HB2	1:8:702:GLN:HE21	1.74	0.53
1:A:298:ASP:OD1	1:A:301:ARG:NH1	2.41	0.53
1:A:700:GLU:HB2	1:A:702:GLN:HE21	1.74	0.53
1:C:260:GLN:NE2	1:C:276:PHE:HE1	2.06	0.53
1:F:700:GLU:HB2	1:F:702:GLN:HE21	1.74	0.53
1:I:340:THR:HB	1:I:407:ARG:HH21	1.73	0.53
1:N:696:ARG:NE	1:N:698:ASN:OD1	2.36	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Q:700:GLU:HB2	1:Q:702:GLN:HE21	1.74	0.53
1:U:696:ARG:NE	1:U:698:ASN:OD1	2.36	0.53
1:V:260:GLN:NE2	1:V:276:PHE:HE1	2.06	0.53
1:V:382:THR:HG21	1:V:394:SER:H	1.73	0.53
1:Y:260:GLN:NE2	1:Y:276:PHE:HE1	2.06	0.53
1:d:307:TRP:CE2	1:d:692:GLU:HG2	2.43	0.53
1:h:704:THR:OG1	1:k:702:GLN:N	2.37	0.53
1:n:290:PHE:O	1:n:293:HIS:N	2.39	0.53
1:n:298:ASP:OD1	1:n:301:ARG:NH1	2.41	0.53
1:o:260:GLN:NE2	1:o:276:PHE:HE1	2.06	0.53
1:v:382:THR:HG21	1:v:394:SER:H	1.72	0.53
1:v:696:ARG:NE	1:v:698:ASN:OD1	2.36	0.53
1:w:340:THR:HB	1:w:407:ARG:HH21	1.72	0.53
1:6:700:GLU:HB2	1:6:702:GLN:HE21	1.74	0.53
1:A:260:GLN:NE2	1:A:276:PHE:HE1	2.06	0.53
1:B:340:THR:HB	1:B:407:ARG:HH21	1.73	0.53
1:B:696:ARG:NH2	1:J:393:SER:O	2.42	0.53
1:I:700:GLU:HB2	1:I:702:GLN:HE21	1.74	0.53
1:L:340:THR:HB	1:L:407:ARG:HH21	1.73	0.53
1:M:393:SER:O	1:b:696:ARG:NH2	2.42	0.53
1:R:260:GLN:NE2	1:R:276:PHE:HE1	2.06	0.53
1:R:700:GLU:HB2	1:R:702:GLN:HE21	1.74	0.53
1:T:696:ARG:NH2	1:d:393:SER:O	2.41	0.53
1:V:696:ARG:NH2	1:e:393:SER:O	2.41	0.53
1:W:298:ASP:OD1	1:W:301:ARG:NH1	2.41	0.53
1:W:382:THR:HG21	1:W:394:SER:H	1.72	0.53
1:a:696:ARG:NE	1:a:698:ASN:OD1	2.36	0.53
1:o:298:ASP:OD1	1:o:301:ARG:NH1	2.41	0.53
1:u:696:ARG:NH2	1:v:393:SER:O	2.42	0.53
1:y:260:GLN:NE2	1:y:276:PHE:HE1	2.06	0.53
1:z:340:THR:HB	1:z:407:ARG:HH21	1.73	0.53
1:2:382:THR:HG22	1:2:383:LEU:H	1.72	0.53
1:5:700:GLU:HB2	1:5:702:GLN:HE21	1.74	0.53
1:B:700:GLU:HB2	1:B:702:GLN:HE21	1.74	0.53
1:E:298:ASP:OD1	1:E:301:ARG:NH1	2.41	0.53
1:F:329:ASN:O	1:F:332:THR:OG1	2.21	0.53
1:H:382:THR:HG22	1:H:383:LEU:H	1.72	0.53
1:L:260:GLN:NE2	1:L:276:PHE:HE1	2.06	0.53
1:O:260:GLN:NE2	1:O:276:PHE:HE1	2.06	0.53
1:P:340:THR:HB	1:P:407:ARG:HH21	1.73	0.53
1:R:393:SER:O	1:U:696:ARG:NH2	2.42	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:S:696:ARG:NH2	1:U:393:SER:O	2.42	0.53
1:S:700:GLU:HB2	1:S:702:GLN:HE21	1.74	0.53
1:b:340:THR:HB	1:b:407:ARG:HH21	1.73	0.53
1:c:700:GLU:HB2	1:c:702:GLN:HE21	1.74	0.53
1:i:260:GLN:NE2	1:i:276:PHE:HE1	2.06	0.53
1:n:340:THR:HB	1:n:407:ARG:HH21	1.73	0.53
1:n:531:ASP:OD1	1:n:569:LYS:NZ	2.28	0.53
1:o:329:ASN:O	1:o:332:THR:OG1	2.21	0.53
1:o:696:ARG:NH2	1:p:393:SER:O	2.42	0.53
1:o:700:GLU:HB2	1:o:702:GLN:HE21	1.74	0.53
1:q:298:ASP:OD1	1:q:301:ARG:NH1	2.41	0.53
1:r:290:PHE:O	1:r:293:HIS:N	2.39	0.53
1:t:393:SER:O	1:v:696:ARG:NH2	2.42	0.53
1:w:382:THR:HG22	1:w:383:LEU:H	1.72	0.53
1:7:260:GLN:NE2	1:7:276:PHE:HE1	2.06	0.53
1:B:290:PHE:O	1:B:293:HIS:N	2.39	0.53
1:C:340:THR:HB	1:C:407:ARG:HH21	1.73	0.53
1:D:340:THR:HB	1:D:407:ARG:HH21	1.73	0.53
1:D:696:ARG:NH2	1:N:393:SER:O	2.42	0.53
1:E:696:ARG:NH2	1:Q:393:SER:O	2.42	0.53
1:S:307:TRP:CE2	1:S:692:GLU:HG2	2.43	0.53
1:W:348:ASP:OD1	1:W:351:TYR:N	2.42	0.53
1:X:700:GLU:HB2	1:X:702:GLN:HE21	1.74	0.53
1:b:290:PHE:O	1:b:293:HIS:N	2.39	0.53
1:b:700:GLU:HB2	1:b:702:GLN:HE21	1.74	0.53
1:d:382:THR:HG22	1:d:383:LEU:H	1.72	0.53
1:f:298:ASP:OD1	1:f:301:ARG:NH1	2.41	0.53
1:g:260:GLN:NE2	1:g:276:PHE:HE1	2.06	0.53
1:h:307:TRP:CE2	1:h:692:GLU:HG2	2.43	0.53
1:h:348:ASP:OD1	1:h:351:TYR:N	2.42	0.53
1:j:290:PHE:O	1:j:293:HIS:N	2.39	0.53
1:j:298:ASP:OD1	1:j:301:ARG:NH1	2.41	0.53
1:k:307:TRP:CE2	1:k:692:GLU:HG2	2.43	0.53
1:k:348:ASP:OD1	1:k:351:TYR:N	2.42	0.53
1:r:260:GLN:NE2	1:r:276:PHE:HE1	2.06	0.53
1:t:260:GLN:NE2	1:t:276:PHE:HE1	2.06	0.53
1:t:700:GLU:HB2	1:t:702:GLN:HE21	1.74	0.53
1:u:307:TRP:CE2	1:u:692:GLU:HG2	2.43	0.53
1:v:348:ASP:OD1	1:v:351:TYR:N	2.42	0.53
1:x:700:GLU:HB2	1:x:702:GLN:HE21	1.74	0.53
1:1:260:GLN:NE2	1:1:276:PHE:HE1	2.06	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:3:260:GLN:NE2	1:3:276:PHE:HE1	2.06	0.53
1:3:393:SER:O	1:4:696:ARG:NH2	2.42	0.53
1:4:290:PHE:O	1:4:293:HIS:N	2.39	0.53
1:4:340:THR:HB	1:4:407:ARG:HH21	1.73	0.53
1:5:260:GLN:NE2	1:5:276:PHE:HE1	2.06	0.53
1:7:298:ASP:OD1	1:7:301:ARG:NH1	2.41	0.53
1:C:393:SER:O	1:M:696:ARG:NH2	2.42	0.53
1:D:348:ASP:OD1	1:D:351:TYR:N	2.42	0.53
1:E:702:GLN:N	1:P:704:THR:OG1	2.37	0.53
1:F:348:ASP:OD1	1:F:351:TYR:N	2.42	0.53
1:H:348:ASP:OD1	1:H:351:TYR:N	2.42	0.53
1:J:696:ARG:NH2	1:L:393:SER:O	2.42	0.53
1:K:348:ASP:OD1	1:K:351:TYR:N	2.42	0.53
1:N:348:ASP:OD1	1:N:351:TYR:N	2.42	0.53
1:O:393:SER:O	1:n:696:ARG:NH2	2.42	0.53
1:S:348:ASP:OD1	1:S:351:TYR:N	2.42	0.53
1:T:260:GLN:NE2	1:T:276:PHE:HE1	2.06	0.53
1:U:348:ASP:OD1	1:U:351:TYR:N	2.42	0.53
1:U:702:GLN:H	1:V:704:THR:HG1	1.57	0.53
1:Y:290:PHE:O	1:Y:293:HIS:N	2.39	0.53
1:a:340:THR:HB	1:a:407:ARG:HH21	1.73	0.53
1:a:348:ASP:OD1	1:a:351:TYR:N	2.42	0.53
1:a:696:ARG:NH2	1:8:393:SER:O	2.41	0.53
1:b:260:GLN:NE2	1:b:276:PHE:HE1	2.06	0.53
1:c:348:ASP:OD1	1:c:351:TYR:N	2.42	0.53
1:d:260:GLN:NE2	1:d:276:PHE:HE1	2.06	0.53
1:e:340:THR:HB	1:e:407:ARG:HH21	1.73	0.53
1:f:393:SER:O	1:g:696:ARG:NH2	2.42	0.53
1:j:340:THR:HB	1:j:407:ARG:HH21	1.73	0.53
1:l:348:ASP:OD1	1:l:351:TYR:N	2.42	0.53
1:m:290:PHE:O	1:m:293:HIS:N	2.39	0.53
1:q:348:ASP:OD1	1:q:351:TYR:N	2.42	0.53
1:r:696:ARG:NH2	1:s:393:SER:O	2.42	0.53
1:s:340:THR:HB	1:s:407:ARG:HH21	1.73	0.53
1:s:348:ASP:OD1	1:s:351:TYR:N	2.42	0.53
1:u:348:ASP:OD1	1:u:351:TYR:N	2.42	0.53
1:u:700:GLU:HB2	1:u:702:GLN:HE21	1.74	0.53
1:z:348:ASP:OD1	1:z:351:TYR:N	2.42	0.53
1:1:700:GLU:HB2	1:1:702:GLN:HE21	1.74	0.53
1:2:260:GLN:NE2	1:2:276:PHE:HE1	2.06	0.53
1:7:702:GLN:N	1:8:704:THR:OG1	2.37	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:329:ASN:O	1:A:332:THR:OG1	2.21	0.53
1:A:348:ASP:OD1	1:A:351:TYR:N	2.42	0.53
1:B:260:GLN:NE2	1:B:276:PHE:HE1	2.06	0.53
1:H:340:THR:HB	1:H:407:ARG:HH21	1.73	0.53
1:I:260:GLN:NE2	1:I:276:PHE:HE1	2.06	0.53
1:I:348:ASP:OD1	1:I:351:TYR:N	2.42	0.53
1:J:260:GLN:NE2	1:J:276:PHE:HE1	2.06	0.53
1:J:348:ASP:OD1	1:J:351:TYR:N	2.42	0.53
1:Q:260:GLN:NE2	1:Q:276:PHE:HE1	2.06	0.53
1:T:700:GLU:HB2	1:T:702:GLN:HE21	1.74	0.53
1:Z:290:PHE:O	1:Z:293:HIS:N	2.39	0.53
1:f:290:PHE:O	1:f:293:HIS:N	2.39	0.53
1:f:696:ARG:NH2	1:h:393:SER:O	2.41	0.53
1:o:348:ASP:OD1	1:o:351:TYR:N	2.42	0.53
1:v:340:THR:HB	1:v:407:ARG:HH21	1.73	0.53
1:y:348:ASP:OD1	1:y:351:TYR:N	2.42	0.53
1:3:307:TRP:CE2	1:3:692:GLU:HG2	2.43	0.53
1:6:348:ASP:OD1	1:6:351:TYR:N	2.42	0.53
1:B:298:ASP:OD1	1:B:301:ARG:NH1	2.41	0.53
1:D:704:THR:OG1	1:M:702:GLN:N	2.37	0.53
1:J:382:THR:HG21	1:J:394:SER:H	1.73	0.53
1:K:696:ARG:NH2	1:a:393:SER:O	2.42	0.53
1:M:260:GLN:NE2	1:M:276:PHE:HE1	2.06	0.53
1:M:348:ASP:OD1	1:M:351:TYR:N	2.42	0.53
1:M:382:THR:HG21	1:M:394:SER:H	1.73	0.53
1:O:307:TRP:CE2	1:O:692:GLU:HG2	2.43	0.53
1:R:696:ARG:NH2	1:S:393:SER:O	2.42	0.53
1:T:348:ASP:OD1	1:T:351:TYR:N	2.42	0.53
1:V:348:ASP:OD1	1:V:351:TYR:N	2.42	0.53
1:f:340:THR:HB	1:f:407:ARG:HH21	1.73	0.53
1:f:700:GLU:HB2	1:f:702:GLN:HE21	1.74	0.53
1:g:393:SER:O	1:h:696:ARG:NH2	2.42	0.53
1:j:700:GLU:HB2	1:j:702:GLN:HE21	1.74	0.53
1:1:348:ASP:OD1	1:1:351:TYR:N	2.42	0.53
1:2:700:GLU:HB2	1:2:702:GLN:HE21	1.74	0.53
1:A:307:TRP:O	1:A:426:SER:OG	2.18	0.52
1:G:700:GLU:HB2	1:G:702:GLN:HE21	1.74	0.52
1:H:696:ARG:NH2	1:W:393:SER:O	2.42	0.52
1:L:348:ASP:OD1	1:L:351:TYR:N	2.42	0.52
1:N:340:THR:HB	1:N:407:ARG:HH21	1.73	0.52
1:N:696:ARG:NH2	1:P:393:SER:O	2.42	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:702:GLN:N	1:O:704:THR:OG1	2.36	0.52
1:O:348:ASP:OD1	1:O:351:TYR:N	2.42	0.52
1:W:700:GLU:HB2	1:W:702:GLN:HE21	1.74	0.52
1:Y:382:THR:HG21	1:Y:394:SER:H	1.73	0.52
1:c:260:GLN:NE2	1:c:276:PHE:HE1	2.06	0.52
1:d:700:GLU:HB2	1:d:702:GLN:HE21	1.74	0.52
1:i:393:SER:O	1:k:696:ARG:NH2	2.42	0.52
1:r:382:THR:HG21	1:r:394:SER:H	1.73	0.52
1:u:696:ARG:NE	1:u:698:ASN:OD1	2.36	0.52
1:2:348:ASP:OD1	1:2:351:TYR:N	2.42	0.52
1:3:348:ASP:OD1	1:3:351:TYR:N	2.42	0.52
1:5:393:SER:O	1:7:696:ARG:NH2	2.42	0.52
1:C:348:ASP:OD1	1:C:351:TYR:N	2.42	0.52
1:H:393:SER:O	1:Y:696:ARG:NH2	2.42	0.52
1:O:696:ARG:NE	1:O:698:ASN:OD1	2.36	0.52
1:S:240:VAL:HG13	1:S:687:TRP:HB2	1.92	0.52
1:Z:348:ASP:OD1	1:Z:351:TYR:N	2.42	0.52
1:d:348:ASP:OD1	1:d:351:TYR:N	2.42	0.52
1:g:340:THR:HB	1:g:407:ARG:HH21	1.73	0.52
1:q:700:GLU:HB2	1:q:702:GLN:HE21	1.74	0.52
1:w:393:SER:O	1:y:696:ARG:NH2	2.42	0.52
1:7:700:GLU:HB2	1:7:702:GLN:HE21	1.74	0.52
1:A:696:ARG:NH2	1:G:393:SER:O	2.43	0.52
1:C:290:PHE:O	1:C:293:HIS:N	2.39	0.52
1:E:393:SER:O	1:F:696:ARG:NH2	2.42	0.52
1:E:700:GLU:HB2	1:E:702:GLN:HE21	1.74	0.52
1:J:307:TRP:O	1:J:426:SER:OG	2.18	0.52
1:J:702:GLN:N	1:K:704:THR:OG1	2.37	0.52
1:N:298:ASP:OD1	1:N:301:ARG:NH1	2.41	0.52
1:O:696:ARG:NH2	1:m:393:SER:O	2.42	0.52
1:P:240:VAL:HG13	1:P:687:TRP:HB2	1.92	0.52
1:R:348:ASP:OD1	1:R:351:TYR:N	2.42	0.52
1:S:696:ARG:NE	1:S:698:ASN:OD1	2.36	0.52
1:U:340:THR:HB	1:U:407:ARG:HH21	1.73	0.52
1:X:348:ASP:OD1	1:X:351:TYR:N	2.42	0.52
1:Y:348:ASP:OD1	1:Y:351:TYR:N	2.42	0.52
1:a:298:ASP:OD1	1:a:301:ARG:NH1	2.41	0.52
1:b:298:ASP:OD1	1:b:301:ARG:NH1	2.41	0.52
1:i:340:THR:HB	1:i:407:ARG:HH21	1.73	0.52
1:j:696:ARG:NH2	1:k:393:SER:O	2.42	0.52
1:p:700:GLU:HB2	1:p:702:GLN:HE21	1.74	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:t:348:ASP:OD1	1:t:351:TYR:N	2.42	0.52
1:1:696:ARG:NH2	1:2:393:SER:O	2.42	0.52
1:3:700:GLU:HB2	1:3:702:GLN:HE21	1.74	0.52
1:5:696:ARG:NH2	1:6:393:SER:O	2.42	0.52
1:7:348:ASP:OD1	1:7:351:TYR:N	2.42	0.52
1:8:240:VAL:HG13	1:8:687:TRP:HB2	1.92	0.52
1:A:704:THR:OG1	1:F:702:GLN:N	2.38	0.52
1:D:393:SER:O	1:P:696:ARG:NH2	2.42	0.52
1:E:348:ASP:OD1	1:E:351:TYR:N	2.42	0.52
1:O:290:PHE:O	1:O:293:HIS:N	2.39	0.52
1:Y:702:GLN:N	1:Z:704:THR:OG1	2.37	0.52
1:Z:696:ARG:NH2	1:4:393:SER:O	2.42	0.52
1:e:290:PHE:O	1:e:293:HIS:N	2.39	0.52
1:e:700:GLU:HB2	1:e:702:GLN:HE21	1.74	0.52
1:h:700:GLU:HB2	1:h:702:GLN:HE21	1.74	0.52
1:i:348:ASP:OD1	1:i:351:TYR:N	2.42	0.52
1:m:348:ASP:OD1	1:m:351:TYR:N	2.42	0.52
1:p:348:ASP:OD1	1:p:351:TYR:N	2.42	0.52
1:q:531:ASP:OD1	1:q:569:LYS:NZ	2.28	0.52
1:r:348:ASP:OD1	1:r:351:TYR:N	2.42	0.52
1:u:240:VAL:HG13	1:u:687:TRP:HB2	1.92	0.52
1:v:702:GLN:H	1:y:704:THR:HG1	1.57	0.52
1:w:700:GLU:HB2	1:w:702:GLN:HE21	1.74	0.52
1:x:348:ASP:OD1	1:x:351:TYR:N	2.42	0.52
1:y:700:GLU:HB2	1:y:702:GLN:HE21	1.74	0.52
1:z:329:ASN:O	1:z:332:THR:OG1	2.21	0.52
1:z:696:ARG:NH2	1:1:393:SER:O	2.42	0.52
1:K:240:VAL:HG13	1:K:687:TRP:HB2	1.92	0.52
1:K:393:SER:O	1:8:696:ARG:NH2	2.42	0.52
1:N:700:GLU:HB2	1:N:702:GLN:HE21	1.74	0.52
1:O:700:GLU:HB2	1:O:702:GLN:HE21	1.74	0.52
1:P:348:ASP:OD1	1:P:351:TYR:N	2.42	0.52
1:W:531:ASP:OD1	1:W:569:LYS:NZ	2.28	0.52
1:d:696:ARG:NH2	1:l:393:SER:O	2.42	0.52
1:g:240:VAL:HG13	1:g:687:TRP:HB2	1.92	0.52
1:g:348:ASP:OD1	1:g:351:TYR:N	2.42	0.52
1:i:240:VAL:HG13	1:i:687:TRP:HB2	1.92	0.52
1:q:393:SER:O	1:s:696:ARG:NH2	2.42	0.52
1:t:240:VAL:HG13	1:t:687:TRP:HB2	1.92	0.52
1:y:290:PHE:O	1:y:293:HIS:N	2.39	0.52
1:3:696:ARG:NE	1:3:698:ASN:OD1	2.36	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:8:348:ASP:OD1	1:8:351:TYR:N	2.42	0.52
1:D:240:VAL:HG13	1:D:687:TRP:HB2	1.92	0.52
1:F:393:SER:O	1:Q:696:ARG:NH2	2.42	0.52
1:G:348:ASP:OD1	1:G:351:TYR:N	2.42	0.52
1:K:700:GLU:HB2	1:K:702:GLN:HE21	1.74	0.52
1:L:290:PHE:O	1:L:293:HIS:N	2.39	0.52
1:R:240:VAL:HG13	1:R:687:TRP:HB2	1.92	0.52
1:U:240:VAL:HG13	1:U:687:TRP:HB2	1.92	0.52
1:V:700:GLU:HB2	1:V:702:GLN:HE21	1.74	0.52
1:k:700:GLU:HB2	1:k:702:GLN:HE21	1.74	0.52
1:m:704:THR:OG1	1:r:702:GLN:N	2.37	0.52
1:q:696:ARG:NH2	1:r:393:SER:O	2.42	0.52
1:v:240:VAL:HG13	1:v:687:TRP:HB2	1.92	0.52
1:A:305:ASN:ND2	1:F:305:ASN:OD1	2.42	0.52
1:B:348:ASP:OD1	1:B:351:TYR:N	2.42	0.52
1:D:700:GLU:HB2	1:D:702:GLN:HE21	1.74	0.52
1:J:700:GLU:HB2	1:J:702:GLN:HE21	1.74	0.52
1:T:696:ARG:NE	1:T:698:ASN:OD1	2.36	0.52
1:W:696:ARG:NH2	1:Y:393:SER:O	2.42	0.52
1:a:700:GLU:HB2	1:a:702:GLN:HE21	1.74	0.52
1:b:348:ASP:OD1	1:b:351:TYR:N	2.42	0.52
1:c:393:SER:O	1:p:696:ARG:NH2	2.43	0.52
1:e:240:VAL:HG13	1:e:687:TRP:HB2	1.92	0.52
1:m:696:ARG:NH2	1:n:393:SER:O	2.42	0.52
1:4:307:TRP:O	1:4:426:SER:OG	2.18	0.52
1:J:704:THR:HG1	1:K:702:GLN:H	1.57	0.52
1:Q:290:PHE:O	1:Q:293:HIS:N	2.39	0.52
1:V:290:PHE:O	1:V:293:HIS:N	2.39	0.52
1:V:431:GLN:NE2	1:e:354:PRO:HB3	2.24	0.52
1:Y:240:VAL:HG13	1:Y:687:TRP:HB2	1.92	0.52
1:a:702:GLN:N	1:3:704:THR:OG1	2.37	0.52
1:f:240:VAL:HG13	1:f:687:TRP:HB2	1.92	0.52
1:j:240:VAL:HG13	1:j:687:TRP:HB2	1.92	0.52
1:v:704:THR:OG1	1:y:702:GLN:N	2.36	0.52
1:w:240:VAL:HG13	1:w:687:TRP:HB2	1.92	0.52
1:w:290:PHE:O	1:w:293:HIS:N	2.39	0.52
1:w:348:ASP:OD1	1:w:351:TYR:N	2.42	0.52
1:1:696:ARG:NE	1:1:698:ASN:OD1	2.36	0.52
1:3:290:PHE:O	1:3:293:HIS:N	2.39	0.52
1:6:696:ARG:NH2	1:7:393:SER:O	2.42	0.52
1:B:240:VAL:HG13	1:B:687:TRP:HB2	1.92	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:305:ASN:ND2	1:O:305:ASN:OD1	2.43	0.52
1:O:329:ASN:O	1:O:332:THR:OG1	2.21	0.52
1:Q:240:VAL:HG13	1:Q:687:TRP:HB2	1.92	0.52
1:S:702:GLN:N	1:T:704:THR:OG1	2.36	0.52
1:Z:393:SER:O	1:3:696:ARG:NH2	2.42	0.52
1:a:305:ASN:ND2	1:3:305:ASN:OD1	2.43	0.52
1:b:240:VAL:HG13	1:b:687:TRP:HB2	1.92	0.52
1:c:696:ARG:NH2	1:o:393:SER:O	2.42	0.52
1:e:348:ASP:OD1	1:e:351:TYR:N	2.42	0.52
1:f:348:ASP:OD1	1:f:351:TYR:N	2.42	0.52
1:j:702:GLN:N	1:w:704:THR:OG1	2.36	0.52
1:l:700:GLU:HB2	1:l:702:GLN:HE21	1.74	0.52
1:m:329:ASN:O	1:m:332:THR:OG1	2.21	0.52
1:w:354:PRO:HB3	1:y:431:GLN:NE2	2.23	0.52
1:x:329:ASN:O	1:x:332:THR:OG1	2.21	0.52
1:z:700:GLU:HB2	1:z:702:GLN:HE21	1.74	0.52
1:4:700:GLU:HB2	1:4:702:GLN:HE21	1.74	0.52
1:D:696:ARG:NE	1:D:698:ASN:OD1	2.36	0.52
1:I:240:VAL:HG13	1:I:687:TRP:HB2	1.92	0.52
1:K:696:ARG:NE	1:K:698:ASN:OD1	2.36	0.52
1:M:700:GLU:HB2	1:M:702:GLN:HE21	1.74	0.52
1:m:700:GLU:HB2	1:m:702:GLN:HE21	1.74	0.52
1:r:700:GLU:HB2	1:r:702:GLN:HE21	1.74	0.52
1:t:696:ARG:NH2	1:u:393:SER:O	2.43	0.52
1:z:354:PRO:HB3	1:2:431:GLN:NE2	2.23	0.52
1:5:240:VAL:HG13	1:5:687:TRP:HB2	1.92	0.52
1:6:240:VAL:HG13	1:6:687:TRP:HB2	1.92	0.52
1:C:696:ARG:NH2	1:b:393:SER:O	2.42	0.51
1:F:240:VAL:HG13	1:F:687:TRP:HB2	1.92	0.51
1:H:240:VAL:HG13	1:H:687:TRP:HB2	1.92	0.51
1:Z:700:GLU:HB2	1:Z:702:GLN:HE21	1.74	0.51
1:c:240:VAL:HG13	1:c:687:TRP:HB2	1.92	0.51
1:e:305:ASN:OD1	1:f:305:ASN:ND2	2.43	0.51
1:j:305:ASN:ND2	1:w:305:ASN:OD1	2.44	0.51
1:j:348:ASP:OD1	1:j:351:TYR:N	2.42	0.51
1:r:240:VAL:HG13	1:r:687:TRP:HB2	1.92	0.51
1:t:305:ASN:OD1	1:5:305:ASN:ND2	2.44	0.51
1:5:290:PHE:O	1:5:293:HIS:N	2.39	0.51
1:D:702:GLN:H	1:M:704:THR:HG1	1.57	0.51
1:T:393:SER:O	1:l:696:ARG:NH2	2.43	0.51
1:U:704:THR:OG1	1:V:702:GLN:N	2.37	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Y:700:GLU:HB2	1:Y:702:GLN:HE21	1.74	0.51
1:Z:329:ASN:O	1:Z:332:THR:OG1	2.21	0.51
1:a:240:VAL:HG13	1:a:687:TRP:HB2	1.92	0.51
1:h:290:PHE:O	1:h:293:HIS:N	2.39	0.51
1:n:700:GLU:HB2	1:n:702:GLN:HE21	1.74	0.51
1:s:240:VAL:HG13	1:s:687:TRP:HB2	1.92	0.51
1:x:240:VAL:HG13	1:x:687:TRP:HB2	1.92	0.51
1:3:329:ASN:O	1:3:332:THR:OG1	2.21	0.51
1:7:240:VAL:HG13	1:7:687:TRP:HB2	1.92	0.51
1:B:393:SER:O	1:L:696:ARG:NH2	2.42	0.51
1:E:240:VAL:HG13	1:E:687:TRP:HB2	1.92	0.51
1:N:240:VAL:HG13	1:N:687:TRP:HB2	1.92	0.51
1:Q:305:ASN:ND2	1:R:305:ASN:OD1	2.44	0.51
1:Q:305:ASN:OD1	1:R:305:ASN:ND2	2.44	0.51
1:U:702:GLN:N	1:V:704:THR:OG1	2.37	0.51
1:Y:307:TRP:O	1:Y:426:SER:OG	2.18	0.51
1:Z:240:VAL:HG13	1:Z:687:TRP:HB2	1.92	0.51
1:f:354:PRO:HB3	1:g:431:GLN:NE2	2.23	0.51
1:k:290:PHE:O	1:k:293:HIS:N	2.39	0.51
1:t:305:ASN:ND2	1:5:305:ASN:OD1	2.44	0.51
1:2:240:VAL:HG13	1:2:687:TRP:HB2	1.92	0.51
1:5:348:ASP:OD1	1:5:351:TYR:N	2.42	0.51
1:A:481:LEU:CD1	1:G:636:LEU:HD11	2.41	0.51
1:G:696:ARG:NH2	1:I:393:SER:O	2.43	0.51
1:M:531:ASP:OD1	1:M:569:LYS:NZ	2.28	0.51
1:Q:348:ASP:OD1	1:Q:351:TYR:N	2.42	0.51
1:U:290:PHE:O	1:U:293:HIS:N	2.39	0.51
1:b:305:ASN:ND2	1:c:305:ASN:OD1	2.43	0.51
1:b:305:ASN:OD1	1:c:305:ASN:ND2	2.43	0.51
1:o:305:ASN:OD1	1:6:305:ASN:ND2	2.43	0.51
1:q:240:VAL:HG13	1:q:687:TRP:HB2	1.92	0.51
1:4:348:ASP:OD1	1:4:351:TYR:N	2.42	0.51
1:5:329:ASN:O	1:5:332:THR:OG1	2.21	0.51
1:C:240:VAL:HG13	1:C:687:TRP:HB2	1.92	0.51
1:N:305:ASN:OD1	1:O:305:ASN:ND2	2.43	0.51
1:R:426:SER:HB2	1:R:731:THR:O	2.11	0.51
1:W:240:VAL:HG13	1:W:687:TRP:HB2	1.92	0.51
1:X:240:VAL:HG13	1:X:687:TRP:HB2	1.92	0.51
1:d:240:VAL:HG13	1:d:687:TRP:HB2	1.92	0.51
1:d:426:SER:HB2	1:d:731:THR:O	2.11	0.51
1:d:431:GLN:NE2	1:l:354:PRO:HB3	2.24	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:f:426:SER:HB2	1:f:731:THR:O	2.11	0.51
1:h:426:SER:HB2	1:h:731:THR:O	2.11	0.51
1:i:431:GLN:NE2	1:j:354:PRO:HB3	2.23	0.51
1:j:426:SER:HB2	1:j:731:THR:O	2.11	0.51
1:j:481:LEU:CD1	1:k:636:LEU:HD11	2.41	0.51
1:m:240:VAL:HG13	1:m:687:TRP:HB2	1.92	0.51
1:q:426:SER:HB2	1:q:731:THR:O	2.11	0.51
1:t:431:GLN:NE2	1:u:354:PRO:HB3	2.23	0.51
1:v:702:GLN:N	1:y:704:THR:OG1	2.37	0.51
1:B:305:ASN:OD1	1:I:305:ASN:ND2	2.44	0.51
1:B:305:ASN:ND2	1:I:305:ASN:OD1	2.44	0.51
1:L:240:VAL:HG13	1:L:687:TRP:HB2	1.92	0.51
1:M:240:VAL:HG13	1:M:687:TRP:HB2	1.92	0.51
1:W:426:SER:HB2	1:W:731:THR:O	2.11	0.51
1:g:426:SER:HB2	1:g:731:THR:O	2.11	0.51
1:k:426:SER:HB2	1:k:731:THR:O	2.11	0.51
1:n:348:ASP:OD1	1:n:351:TYR:N	2.42	0.51
1:t:426:SER:HB2	1:t:731:THR:O	2.11	0.51
1:u:702:GLN:N	1:1:704:THR:OG1	2.36	0.51
1:2:426:SER:HB2	1:2:731:THR:O	2.11	0.51
1:A:240:VAL:HG13	1:A:687:TRP:HB2	1.92	0.51
1:C:305:ASN:ND2	1:L:305:ASN:OD1	2.44	0.51
1:C:305:ASN:OD1	1:L:305:ASN:ND2	2.44	0.51
1:J:240:VAL:HG13	1:J:687:TRP:HB2	1.92	0.51
1:R:431:GLN:NE2	1:S:354:PRO:HB3	2.24	0.51
1:X:636:LEU:HD11	1:e:481:LEU:CD1	2.41	0.51
1:i:305:ASN:ND2	1:l:305:ASN:OD1	2.43	0.51
1:i:426:SER:HB2	1:i:731:THR:O	2.11	0.51
1:o:702:GLN:N	1:6:704:THR:OG1	2.36	0.51
1:q:305:ASN:OD1	1:x:305:ASN:ND2	2.43	0.51
1:q:329:ASN:O	1:q:332:THR:OG1	2.21	0.51
1:v:290:PHE:O	1:v:293:HIS:N	2.39	0.51
1:x:481:LEU:CD1	1:y:636:LEU:HD11	2.41	0.51
1:A:426:SER:HB2	1:A:731:THR:O	2.11	0.51
1:U:426:SER:HB2	1:U:731:THR:O	2.11	0.51
1:a:305:ASN:OD1	1:3:305:ASN:ND2	2.43	0.51
1:e:704:THR:OG1	1:f:702:GLN:N	2.37	0.51
1:o:426:SER:HB2	1:o:731:THR:O	2.11	0.51
1:v:426:SER:HB2	1:v:731:THR:O	2.11	0.51
1:2:305:ASN:OD1	1:4:305:ASN:ND2	2.43	0.51
1:7:305:ASN:OD1	1:8:305:ASN:ND2	2.43	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:636:LEU:HD11	1:P:481:LEU:CD1	2.41	0.51
1:F:290:PHE:O	1:F:293:HIS:N	2.39	0.51
1:G:305:ASN:OD1	1:H:305:ASN:ND2	2.43	0.51
1:G:481:LEU:CD1	1:I:636:LEU:HD11	2.41	0.51
1:J:531:ASP:OD1	1:J:569:LYS:NZ	2.28	0.51
1:J:704:THR:OG1	1:K:702:GLN:N	2.37	0.51
1:P:426:SER:HB2	1:P:731:THR:O	2.11	0.51
1:V:240:VAL:HG13	1:V:687:TRP:HB2	1.92	0.51
1:V:636:LEU:HD11	1:X:481:LEU:CD1	2.41	0.51
1:W:305:ASN:OD1	1:X:305:ASN:ND2	2.44	0.51
1:W:704:THR:OG1	1:X:702:GLN:N	2.37	0.51
1:X:307:TRP:O	1:X:426:SER:OG	2.18	0.51
1:X:354:PRO:HB3	1:e:431:GLN:NE2	2.23	0.51
1:d:305:ASN:OD1	1:n:305:ASN:ND2	2.43	0.51
1:g:305:ASN:ND2	1:z:305:ASN:OD1	2.44	0.51
1:i:329:ASN:O	1:i:332:THR:OG1	2.21	0.51
1:l:240:VAL:HG13	1:l:687:TRP:HB2	1.92	0.51
1:m:305:ASN:ND2	1:r:305:ASN:OD1	2.44	0.51
1:m:305:ASN:OD1	1:r:305:ASN:ND2	2.44	0.51
1:o:240:VAL:HG13	1:o:687:TRP:HB2	1.92	0.51
1:o:305:ASN:ND2	1:6:305:ASN:OD1	2.43	0.51
1:p:696:ARG:NE	1:p:698:ASN:OD1	2.36	0.51
1:y:240:VAL:HG13	1:y:687:TRP:HB2	1.92	0.51
1:1:240:VAL:HG13	1:1:687:TRP:HB2	1.92	0.51
1:2:305:ASN:ND2	1:4:305:ASN:OD1	2.43	0.51
1:D:305:ASN:OD1	1:M:305:ASN:ND2	2.43	0.51
1:D:702:GLN:N	1:M:704:THR:OG1	2.37	0.51
1:E:305:ASN:OD1	1:P:305:ASN:ND2	2.43	0.51
1:F:426:SER:HB2	1:F:731:THR:O	2.11	0.51
1:G:426:SER:HB2	1:G:731:THR:O	2.11	0.51
1:I:426:SER:HB2	1:I:731:THR:O	2.11	0.51
1:K:636:LEU:HD11	1:8:481:LEU:CD1	2.41	0.51
1:O:240:VAL:HG13	1:O:687:TRP:HB2	1.92	0.51
1:S:305:ASN:ND2	1:T:305:ASN:OD1	2.44	0.51
1:S:481:LEU:CD1	1:U:636:LEU:HD11	2.41	0.51
1:T:426:SER:HB2	1:T:731:THR:O	2.11	0.51
1:W:305:ASN:ND2	1:X:305:ASN:OD1	2.43	0.51
1:Y:305:ASN:OD1	1:Z:305:ASN:ND2	2.44	0.51
1:b:704:THR:OG1	1:c:702:GLN:N	2.36	0.51
1:d:696:ARG:NE	1:d:698:ASN:OD1	2.36	0.51
1:p:240:VAL:HG13	1:p:687:TRP:HB2	1.92	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:p:426:SER:HB2	1:p:731:THR:O	2.11	0.51
1:u:305:ASN:ND2	1:1:305:ASN:OD1	2.44	0.51
1:x:307:TRP:O	1:x:426:SER:OG	2.18	0.51
1:z:240:VAL:HG13	1:z:687:TRP:HB2	1.92	0.51
1:1:426:SER:HB2	1:1:731:THR:O	2.11	0.51
1:1:481:LEU:CD1	1:2:636:LEU:HD11	2.41	0.51
1:6:290:PHE:O	1:6:293:HIS:N	2.39	0.51
1:6:426:SER:HB2	1:6:731:THR:O	2.11	0.51
1:8:426:SER:HB2	1:8:731:THR:O	2.11	0.51
1:B:481:LEU:CD1	1:J:636:LEU:HD11	2.41	0.50
1:F:636:LEU:HD11	1:Q:481:LEU:CD1	2.41	0.50
1:G:240:VAL:HG13	1:G:687:TRP:HB2	1.92	0.50
1:J:305:ASN:ND2	1:K:305:ASN:OD1	2.43	0.50
1:M:636:LEU:HD11	1:b:481:LEU:CD1	2.42	0.50
1:N:481:LEU:CD1	1:P:636:LEU:HD11	2.41	0.50
1:T:240:VAL:HG13	1:T:687:TRP:HB2	1.92	0.50
1:W:329:ASN:O	1:W:332:THR:OG1	2.21	0.50
1:c:426:SER:HB2	1:c:731:THR:O	2.11	0.50
1:c:431:GLN:NE2	1:o:354:PRO:HB3	2.23	0.50
1:f:481:LEU:CD1	1:h:636:LEU:HD11	2.41	0.50
1:g:305:ASN:OD1	1:z:305:ASN:ND2	2.43	0.50
1:g:354:PRO:HB3	1:h:431:GLN:NE2	2.23	0.50
1:i:704:THR:OG1	1:l:702:GLN:N	2.36	0.50
1:o:481:LEU:CD1	1:p:636:LEU:HD11	2.42	0.50
1:p:704:THR:OG1	1:s:702:GLN:N	2.36	0.50
1:q:305:ASN:ND2	1:x:305:ASN:OD1	2.43	0.50
1:q:636:LEU:HD11	1:s:481:LEU:CD1	2.41	0.50
1:q:704:THR:OG1	1:x:702:GLN:N	2.37	0.50
1:t:702:GLN:N	1:5:704:THR:OG1	2.37	0.50
1:v:305:ASN:ND2	1:y:305:ASN:OD1	2.43	0.50
1:w:431:GLN:NE2	1:x:354:PRO:HB3	2.23	0.50
1:z:426:SER:HB2	1:z:731:THR:O	2.11	0.50
1:3:240:VAL:HG13	1:3:687:TRP:HB2	1.92	0.50
1:6:696:ARG:NE	1:6:698:ASN:OD1	2.36	0.50
1:B:636:LEU:HD11	1:L:481:LEU:CD1	2.42	0.50
1:C:481:LEU:CD1	1:b:636:LEU:HD11	2.42	0.50
1:G:696:ARG:NE	1:G:698:ASN:OD1	2.36	0.50
1:H:426:SER:HB2	1:H:731:THR:O	2.11	0.50
1:R:636:LEU:HD11	1:U:481:LEU:CD1	2.41	0.50
1:S:305:ASN:OD1	1:T:305:ASN:ND2	2.44	0.50
1:T:481:LEU:CD1	1:d:636:LEU:HD11	2.42	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Y:305:ASN:ND2	1:Z:305:ASN:OD1	2.44	0.50
1:d:305:ASN:ND2	1:n:305:ASN:OD1	2.44	0.50
1:l:426:SER:HB2	1:l:731:THR:O	2.11	0.50
1:q:354:PRO:HB3	1:s:431:GLN:NE2	2.23	0.50
1:s:426:SER:HB2	1:s:731:THR:O	2.11	0.50
1:u:704:THR:OG1	1:1:702:GLN:N	2.36	0.50
1:4:426:SER:HB2	1:4:731:THR:O	2.11	0.50
1:7:305:ASN:ND2	1:8:305:ASN:OD1	2.43	0.50
1:u:305:ASN:OD1	1:1:305:ASN:ND2	2.44	0.50
1:w:481:LEU:CD1	1:x:636:LEU:HD11	2.42	0.50
1:z:393:SER:O	1:2:696:ARG:NH2	2.43	0.50
1:z:636:LEU:HD11	1:2:481:LEU:CD1	2.41	0.50
1:4:240:VAL:HG13	1:4:687:TRP:HB2	1.92	0.50
1:B:704:THR:OG1	1:I:702:GLN:N	2.36	0.50
1:E:305:ASN:ND2	1:P:305:ASN:OD1	2.43	0.50
1:E:426:SER:HB2	1:E:731:THR:O	2.11	0.50
1:T:636:LEU:HD11	1:l:481:LEU:CD1	2.41	0.50
1:a:481:LEU:CD1	1:8:636:LEU:HD11	2.41	0.50
1:g:329:ASN:O	1:g:332:THR:OG1	2.21	0.50
1:g:702:GLN:N	1:z:704:THR:OG1	2.36	0.50
1:n:426:SER:HB2	1:n:731:THR:O	2.11	0.50
1:t:290:PHE:O	1:t:293:HIS:N	2.39	0.50
1:x:290:PHE:O	1:x:293:HIS:N	2.39	0.50
1:3:354:PRO:HB3	1:4:431:GLN:NE2	2.23	0.50
1:3:426:SER:HB2	1:3:731:THR:O	2.11	0.50
1:7:329:ASN:O	1:7:332:THR:OG1	2.21	0.50
1:C:636:LEU:HD11	1:M:481:LEU:CD1	2.41	0.50
1:E:481:LEU:CD1	1:Q:636:LEU:HD11	2.41	0.50
1:G:704:THR:OG1	1:H:702:GLN:N	2.37	0.50
1:H:481:LEU:CD1	1:W:636:LEU:HD11	2.42	0.50
1:M:426:SER:HB2	1:M:731:THR:O	2.11	0.50
1:O:354:PRO:HB3	1:n:431:GLN:NE2	2.23	0.50
1:O:426:SER:HB2	1:O:731:THR:O	2.11	0.50
1:Q:426:SER:HB2	1:Q:731:THR:O	2.11	0.50
1:U:305:ASN:ND2	1:V:305:ASN:OD1	2.43	0.50
1:V:426:SER:HB2	1:V:731:THR:O	2.11	0.50
1:Y:426:SER:HB2	1:Y:731:THR:O	2.11	0.50
1:c:481:LEU:CD1	1:o:636:LEU:HD11	2.42	0.50
1:c:636:LEU:HD11	1:p:481:LEU:CD1	2.41	0.50
1:i:305:ASN:OD1	1:l:305:ASN:ND2	2.44	0.50
1:n:240:VAL:HG13	1:n:687:TRP:HB2	1.92	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:q:481:LEU:CD1	1:r:636:LEU:HD11	2.41	0.50
1:t:636:LEU:HD11	1:v:481:LEU:CD1	2.41	0.50
1:w:636:LEU:HD11	1:y:481:LEU:CD1	2.41	0.50
1:7:426:SER:HB2	1:7:731:THR:O	2.11	0.50
1:B:426:SER:HB2	1:B:731:THR:O	2.11	0.50
1:C:704:THR:OG1	1:L:702:GLN:N	2.37	0.50
1:D:305:ASN:ND2	1:M:305:ASN:OD1	2.43	0.50
1:D:481:LEU:CD1	1:N:636:LEU:HD11	2.41	0.50
1:H:431:GLN:NE2	1:W:354:PRO:HB3	2.24	0.50
1:O:431:GLN:NE2	1:m:354:PRO:HB3	2.23	0.50
1:V:481:LEU:CD1	1:e:636:LEU:HD11	2.41	0.50
1:W:481:LEU:CD1	1:Y:636:LEU:HD11	2.41	0.50
1:X:290:PHE:O	1:X:293:HIS:N	2.39	0.50
1:g:531:ASP:OD1	1:g:569:LYS:NZ	2.28	0.50
1:i:354:PRO:HB3	1:k:431:GLN:NE2	2.23	0.50
1:m:481:LEU:CD1	1:n:636:LEU:HD11	2.41	0.50
1:r:426:SER:HB2	1:r:731:THR:O	2.11	0.50
1:v:254:ASN:OD1	1:v:259:LYS:HD2	2.12	0.50
1:y:426:SER:HB2	1:y:731:THR:O	2.11	0.50
1:5:426:SER:HB2	1:5:731:THR:O	2.11	0.50
1:E:254:ASN:OD1	1:E:259:LYS:HD2	2.12	0.50
1:J:305:ASN:OD1	1:K:305:ASN:ND2	2.43	0.50
1:J:426:SER:HB2	1:J:731:THR:O	2.11	0.50
1:J:481:LEU:CD1	1:L:636:LEU:HD11	2.41	0.50
1:K:254:ASN:OD1	1:K:259:LYS:HD2	2.12	0.50
1:P:290:PHE:O	1:P:293:HIS:N	2.39	0.50
1:R:290:PHE:O	1:R:293:HIS:N	2.39	0.50
1:U:254:ASN:OD1	1:U:259:LYS:HD2	2.12	0.50
1:Z:636:LEU:HD11	1:3:481:LEU:CD1	2.41	0.50
1:a:426:SER:HB2	1:a:731:THR:O	2.11	0.50
1:b:426:SER:HB2	1:b:731:THR:O	2.11	0.50
1:d:481:LEU:CD1	1:l:636:LEU:HD11	2.41	0.50
1:g:704:THR:OG1	1:z:702:GLN:N	2.37	0.50
1:k:240:VAL:HG13	1:k:687:TRP:HB2	1.92	0.50
1:q:290:PHE:O	1:q:293:HIS:N	2.39	0.50
1:u:481:LEU:CD1	1:v:636:LEU:HD11	2.42	0.50
1:5:481:LEU:CD1	1:6:636:LEU:HD11	2.42	0.50
1:7:254:ASN:OD1	1:7:259:LYS:HD2	2.12	0.50
1:8:290:PHE:O	1:8:293:HIS:N	2.39	0.50
1:B:702:GLN:N	1:I:704:THR:OG1	2.36	0.50
1:D:254:ASN:OD1	1:D:259:LYS:HD2	2.12	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:254:ASN:OD1	1:G:259:LYS:HD2	2.12	0.50
1:G:305:ASN:ND2	1:H:305:ASN:OD1	2.43	0.50
1:K:481:LEU:CD1	1:a:636:LEU:HD11	2.41	0.50
1:N:426:SER:HB2	1:N:731:THR:O	2.11	0.50
1:O:481:LEU:CD1	1:m:636:LEU:HD11	2.41	0.50
1:Q:704:THR:OG1	1:R:702:GLN:N	2.37	0.50
1:h:240:VAL:HG13	1:h:687:TRP:HB2	1.92	0.50
1:j:305:ASN:OD1	1:w:305:ASN:ND2	2.43	0.50
1:n:329:ASN:O	1:n:332:THR:OG1	2.21	0.50
1:o:431:GLN:NE2	1:p:354:PRO:HB3	2.23	0.50
1:p:305:ASN:OD1	1:s:305:ASN:ND2	2.43	0.50
1:p:305:ASN:ND2	1:s:305:ASN:OD1	2.43	0.50
1:t:481:LEU:CD1	1:u:636:LEU:HD11	2.41	0.50
1:2:254:ASN:OD1	1:2:259:LYS:HD2	2.12	0.50
1:5:636:LEU:HD11	1:7:481:LEU:CD1	2.41	0.50
1:A:431:GLN:NE2	1:G:354:PRO:HB3	2.23	0.50
1:A:696:ARG:NE	1:A:698:ASN:OD1	2.36	0.50
1:C:531:ASP:OD1	1:C:569:LYS:NZ	2.28	0.50
1:C:702:GLN:N	1:L:704:THR:OG1	2.37	0.50
1:V:254:ASN:OD1	1:V:259:LYS:HD2	2.12	0.50
1:X:426:SER:HB2	1:X:731:THR:O	2.11	0.50
1:Z:254:ASN:OD1	1:Z:259:LYS:HD2	2.12	0.50
1:Z:354:PRO:HB3	1:3:431:GLN:NE2	2.23	0.50
1:d:254:ASN:OD1	1:d:259:LYS:HD2	2.12	0.50
1:e:305:ASN:ND2	1:f:305:ASN:OD1	2.44	0.50
1:e:531:ASP:OD1	1:e:569:LYS:NZ	2.28	0.50
1:j:254:ASN:OD1	1:j:259:LYS:HD2	2.12	0.50
1:m:254:ASN:OD1	1:m:259:LYS:HD2	2.12	0.50
1:p:254:ASN:OD1	1:p:259:LYS:HD2	2.12	0.50
1:x:426:SER:HB2	1:x:731:THR:O	2.11	0.50
1:y:254:ASN:OD1	1:y:259:LYS:HD2	2.12	0.50
1:3:254:ASN:OD1	1:3:259:LYS:HD2	2.12	0.50
1:4:329:ASN:O	1:4:332:THR:OG1	2.21	0.50
1:A:636:LEU:HD11	1:I:481:LEU:CD1	2.42	0.49
1:D:431:GLN:NE2	1:N:354:PRO:HB3	2.23	0.49
1:I:254:ASN:OD1	1:I:259:LYS:HD2	2.12	0.49
1:P:254:ASN:OD1	1:P:259:LYS:HD2	2.12	0.49
1:R:481:LEU:CD1	1:S:636:LEU:HD11	2.42	0.49
1:S:704:THR:OG1	1:T:702:GLN:N	2.37	0.49
1:T:354:PRO:HB3	1:l:431:GLN:NE2	2.23	0.49
1:W:290:PHE:O	1:W:293:HIS:N	2.39	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:X:254:ASN:OD1	1:X:259:LYS:HD2	2.12	0.49
1:b:702:GLN:N	1:c:704:THR:OG1	2.36	0.49
1:c:696:ARG:NE	1:c:698:ASN:OD1	2.36	0.49
1:e:254:ASN:OD1	1:e:259:LYS:HD2	2.12	0.49
1:f:254:ASN:OD1	1:f:259:LYS:HD2	2.12	0.49
1:g:636:LEU:HD11	1:h:481:LEU:CD1	2.42	0.49
1:i:636:LEU:HD11	1:k:481:LEU:CD1	2.42	0.49
1:i:702:GLN:N	1:l:704:THR:OG1	2.37	0.49
1:m:426:SER:HB2	1:m:731:THR:O	2.11	0.49
1:4:254:ASN:OD1	1:4:259:LYS:HD2	2.12	0.49
1:6:481:LEU:CD1	1:7:636:LEU:HD11	2.42	0.49
1:C:254:ASN:OD1	1:C:259:LYS:HD2	2.12	0.49
1:E:636:LEU:HD11	1:F:481:LEU:CD1	2.41	0.49
1:I:696:ARG:NE	1:I:698:ASN:OD1	2.36	0.49
1:L:254:ASN:OD1	1:L:259:LYS:HD2	2.12	0.49
1:L:426:SER:HB2	1:L:731:THR:O	2.11	0.49
1:O:254:ASN:OD1	1:O:259:LYS:HD2	2.12	0.49
1:S:426:SER:HB2	1:S:731:THR:O	2.11	0.49
1:U:305:ASN:OD1	1:V:305:ASN:ND2	2.43	0.49
1:Z:426:SER:HB2	1:Z:731:THR:O	2.11	0.49
1:a:704:THR:OG1	1:3:702:GLN:N	2.37	0.49
1:c:254:ASN:OD1	1:c:259:LYS:HD2	2.12	0.49
1:e:426:SER:HB2	1:e:731:THR:O	2.11	0.49
1:i:531:ASP:OD1	1:i:569:LYS:NZ	2.28	0.49
1:n:254:ASN:OD1	1:n:259:LYS:HD2	2.12	0.49
1:w:254:ASN:OD1	1:w:259:LYS:HD2	2.12	0.49
1:x:254:ASN:OD1	1:x:259:LYS:HD2	2.12	0.49
1:z:431:GLN:NE2	1:1:354:PRO:HB3	2.23	0.49
1:z:481:LEU:CD1	1:1:636:LEU:HD11	2.42	0.49
1:B:254:ASN:OD1	1:B:259:LYS:HD2	2.12	0.49
1:C:426:SER:HB2	1:C:731:THR:O	2.11	0.49
1:K:431:GLN:NE2	1:a:354:PRO:HB3	2.23	0.49
1:Z:481:LEU:CD1	1:4:636:LEU:HD11	2.42	0.49
1:b:254:ASN:OD1	1:b:259:LYS:HD2	2.12	0.49
1:f:636:LEU:HD11	1:g:481:LEU:CD1	2.41	0.49
1:o:254:ASN:OD1	1:o:259:LYS:HD2	2.12	0.49
1:u:426:SER:HB2	1:u:731:THR:O	2.11	0.49
1:v:305:ASN:OD1	1:y:305:ASN:ND2	2.43	0.49
1:v:656:VAL:HG11	1:1:324:LYS:HE3	1.95	0.49
1:w:426:SER:HB2	1:w:731:THR:O	2.11	0.49
1:5:254:ASN:OD1	1:5:259:LYS:HD2	2.12	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:6:431:GLN:NE2	1:7:354:PRO:HB3	2.23	0.49
1:8:254:ASN:OD1	1:8:259:LYS:HD2	2.12	0.49
1:A:354:PRO:HB3	1:I:431:GLN:NE2	2.25	0.49
1:F:254:ASN:OD1	1:F:259:LYS:HD2	2.12	0.49
1:J:254:ASN:OD1	1:J:259:LYS:HD2	2.12	0.49
1:K:290:PHE:O	1:K:293:HIS:N	2.39	0.49
1:M:254:ASN:OD1	1:M:259:LYS:HD2	2.12	0.49
1:Q:254:ASN:OD1	1:Q:259:LYS:HD2	2.12	0.49
1:T:324:LYS:HE3	1:U:656:VAL:HG11	1.95	0.49
1:s:254:ASN:OD1	1:s:259:LYS:HD2	2.12	0.49
1:x:431:GLN:NE2	1:y:354:PRO:HB3	2.23	0.49
1:6:254:ASN:OD1	1:6:259:LYS:HD2	2.12	0.49
1:H:254:ASN:OD1	1:H:259:LYS:HD2	2.12	0.49
1:H:636:LEU:HD11	1:Y:481:LEU:CD1	2.42	0.49
1:L:531:ASP:OD1	1:L:569:LYS:NZ	2.28	0.49
1:N:254:ASN:OD1	1:N:259:LYS:HD2	2.12	0.49
1:O:656:VAL:HG11	1:d:324:LYS:HE3	1.94	0.49
1:a:254:ASN:OD1	1:a:259:LYS:HD2	2.12	0.49
1:h:305:ASN:ND2	1:k:305:ASN:OD1	2.44	0.49
1:o:696:ARG:NE	1:o:698:ASN:OD1	2.36	0.49
1:5:328:GLN:NE2	1:5:333:LYS:HG3	2.23	0.49
1:5:628:ASP:OD2	1:7:425:SER:OG	2.30	0.49
1:A:254:ASN:OD1	1:A:259:LYS:HD2	2.12	0.49
1:M:324:LYS:HE3	1:N:656:VAL:HG11	1.95	0.49
1:N:704:THR:OG1	1:O:702:GLN:N	2.37	0.49
1:V:531:ASP:OD1	1:V:569:LYS:NZ	2.28	0.49
1:l:254:ASN:OD1	1:l:259:LYS:HD2	2.12	0.49
1:r:481:LEU:CD1	1:s:636:LEU:HD11	2.42	0.49
1:w:329:ASN:O	1:w:332:THR:OG1	2.21	0.49
1:1:254:ASN:OD1	1:1:259:LYS:HD2	2.12	0.49
1:1:431:GLN:NE2	1:2:354:PRO:HB3	2.22	0.49
1:E:354:PRO:HB3	1:F:431:GLN:NE2	2.23	0.49
1:G:374:MET:HE2	1:W:664:PHE:HA	1.95	0.49
1:G:531:ASP:OD1	1:G:569:LYS:NZ	2.28	0.49
1:J:324:LYS:HE3	1:a:656:VAL:HG11	1.95	0.49
1:T:254:ASN:OD1	1:T:259:LYS:HD2	2.12	0.49
1:j:431:GLN:NE2	1:k:354:PRO:HB3	2.23	0.49
1:o:324:LYS:HE3	1:7:656:VAL:HG11	1.95	0.49
1:z:254:ASN:OD1	1:z:259:LYS:HD2	2.12	0.49
1:A:360:ALA:HB1	1:I:444:TYR:CZ	2.48	0.49
1:D:290:PHE:O	1:D:293:HIS:N	2.39	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:h:305:ASN:OD1	1:k:305:ASN:ND2	2.44	0.49
1:h:702:GLN:N	1:k:704:THR:OG1	2.37	0.49
1:q:254:ASN:OD1	1:q:259:LYS:HD2	2.12	0.49
1:t:254:ASN:OD1	1:t:259:LYS:HD2	2.12	0.49
1:u:254:ASN:OD1	1:u:259:LYS:HD2	2.12	0.49
1:v:324:LYS:HE3	1:w:656:VAL:HG11	1.95	0.49
1:D:426:SER:HB2	1:D:731:THR:O	2.11	0.49
1:S:254:ASN:OD1	1:S:259:LYS:HD2	2.12	0.49
1:Z:444:TYR:CZ	1:4:360:ALA:HB1	2.48	0.49
1:d:287:PHE:CE1	1:d:621:TRP:HH2	2.31	0.49
1:e:324:LYS:HE3	1:h:656:VAL:HG11	1.95	0.49
1:e:329:ASN:O	1:e:332:THR:OG1	2.21	0.49
1:f:425:SER:OG	1:h:628:ASP:OD2	2.29	0.49
1:i:481:LEU:CD1	1:j:636:LEU:HD11	2.42	0.49
1:k:656:VAL:HG11	1:w:324:LYS:HE3	1.95	0.49
1:m:696:ARG:NE	1:m:698:ASN:OD1	2.36	0.49
1:z:444:TYR:CZ	1:1:360:ALA:HB1	2.48	0.49
1:A:290:PHE:O	1:A:293:HIS:N	2.39	0.49
1:A:444:TYR:CZ	1:G:360:ALA:HB1	2.48	0.49
1:A:656:VAL:HG11	1:B:324:LYS:HE3	1.95	0.49
1:E:425:SER:OG	1:Q:628:ASP:OD2	2.30	0.49
1:G:702:GLN:N	1:H:704:THR:OG1	2.36	0.49
1:K:426:SER:HB2	1:K:731:THR:O	2.11	0.49
1:M:354:PRO:HB3	1:b:431:GLN:NE2	2.23	0.49
1:O:636:LEU:HD11	1:n:481:LEU:CD1	2.42	0.49
1:R:254:ASN:OD1	1:R:259:LYS:HD2	2.12	0.49
1:R:287:PHE:CE1	1:R:621:TRP:HH2	2.31	0.49
1:R:354:PRO:HB3	1:U:431:GLN:NE2	2.23	0.49
1:T:328:GLN:NE2	1:T:333:LYS:HG3	2.23	0.49
1:U:287:PHE:CE1	1:U:621:TRP:HH2	2.31	0.49
1:V:354:PRO:HB3	1:X:431:GLN:NE2	2.24	0.49
1:W:254:ASN:OD1	1:W:259:LYS:HD2	2.12	0.49
1:X:287:PHE:CE1	1:X:621:TRP:HH2	2.31	0.49
1:Y:254:ASN:OD1	1:Y:259:LYS:HD2	2.12	0.49
1:h:696:ARG:NE	1:h:698:ASN:OD1	2.36	0.49
1:l:406:LEU:N	1:l:406:LEU:CD1	2.76	0.49
1:p:702:GLN:N	1:s:704:THR:OG1	2.36	0.49
1:r:254:ASN:OD1	1:r:259:LYS:HD2	2.12	0.49
1:t:287:PHE:CE1	1:t:621:TRP:HH2	2.31	0.49
1:x:287:PHE:CE1	1:x:621:TRP:HH2	2.31	0.49
1:2:287:PHE:CE1	1:2:621:TRP:HH2	2.31	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:3:287:PHE:CE1	1:3:621:TRP:HH2	2.31	0.49
1:5:360:ALA:HB1	1:7:444:TYR:CZ	2.48	0.49
1:I:382:THR:HG22	1:I:383:LEU:N	2.28	0.48
1:M:656:VAL:HG11	1:c:324:LYS:HE3	1.95	0.48
1:O:287:PHE:CE1	1:O:621:TRP:HH2	2.31	0.48
1:Q:406:LEU:N	1:Q:406:LEU:CD1	2.76	0.48
1:R:656:VAL:HG11	1:V:324:LYS:HE3	1.95	0.48
1:S:324:LYS:HE3	1:d:656:VAL:HG11	1.95	0.48
1:S:382:THR:HG22	1:S:383:LEU:N	2.28	0.48
1:T:360:ALA:HB1	1:l:444:TYR:CZ	2.48	0.48
1:Z:406:LEU:N	1:Z:406:LEU:CD1	2.76	0.48
1:b:324:LYS:HE3	1:o:656:VAL:HG11	1.95	0.48
1:c:444:TYR:CZ	1:o:360:ALA:HB1	2.48	0.48
1:d:382:THR:HG22	1:d:383:LEU:N	2.28	0.48
1:f:382:THR:HG22	1:f:383:LEU:N	2.28	0.48
1:m:406:LEU:N	1:m:406:LEU:CD1	2.76	0.48
1:o:290:PHE:O	1:o:293:HIS:N	2.39	0.48
1:p:382:THR:HG22	1:p:383:LEU:N	2.28	0.48
1:s:696:ARG:NE	1:s:698:ASN:OD1	2.36	0.48
1:t:354:PRO:HB3	1:v:431:GLN:NE2	2.24	0.48
1:t:360:ALA:HB1	1:v:444:TYR:CZ	2.48	0.48
1:v:287:PHE:CE1	1:v:621:TRP:HH2	2.31	0.48
1:z:406:LEU:N	1:z:406:LEU:CD1	2.76	0.48
1:2:382:THR:HG22	1:2:383:LEU:N	2.28	0.48
1:3:324:LYS:HE3	1:8:656:VAL:HG11	1.95	0.48
1:5:287:PHE:CE1	1:5:621:TRP:HH2	2.31	0.48
1:5:406:LEU:N	1:5:406:LEU:CD1	2.76	0.48
1:6:406:LEU:N	1:6:406:LEU:CD1	2.76	0.48
1:D:406:LEU:N	1:D:406:LEU:CD1	2.76	0.48
1:F:406:LEU:N	1:F:406:LEU:CD1	2.76	0.48
1:G:382:THR:HG22	1:G:383:LEU:N	2.28	0.48
1:H:360:ALA:HB1	1:Y:444:TYR:CZ	2.48	0.48
1:K:406:LEU:N	1:K:406:LEU:CD1	2.76	0.48
1:O:406:LEU:N	1:O:406:LEU:CD1	2.76	0.48
1:Q:702:GLN:N	1:R:704:THR:OG1	2.37	0.48
1:R:360:ALA:HB1	1:U:444:TYR:CZ	2.49	0.48
1:S:328:GLN:NE2	1:S:333:LYS:HG3	2.23	0.48
1:U:406:LEU:N	1:U:406:LEU:CD1	2.76	0.48
1:W:444:TYR:CZ	1:Y:360:ALA:HB1	2.48	0.48
1:Y:374:MET:HE2	1:4:664:PHE:HA	1.95	0.48
1:Y:382:THR:HG22	1:Y:383:LEU:N	2.29	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:c:382:THR:HG22	1:c:383:LEU:N	2.29	0.48
1:f:329:ASN:O	1:f:332:THR:OG1	2.21	0.48
1:f:656:VAL:HG11	1:z:324:LYS:HE3	1.95	0.48
1:g:656:VAL:HG11	1:k:324:LYS:HE3	1.95	0.48
1:h:324:LYS:HE3	1:i:656:VAL:HG11	1.95	0.48
1:h:374:MET:HE2	1:i:664:PHE:HA	1.95	0.48
1:j:329:ASN:O	1:j:332:THR:OG1	2.21	0.48
1:j:382:THR:HG22	1:j:383:LEU:N	2.28	0.48
1:j:664:PHE:HA	1:l:374:MET:HE2	1.96	0.48
1:l:287:PHE:CE1	1:l:621:TRP:HH2	2.31	0.48
1:m:444:TYR:CZ	1:n:360:ALA:HB1	2.48	0.48
1:n:664:PHE:HA	1:r:374:MET:HE2	1.95	0.48
1:p:374:MET:HE2	1:q:664:PHE:HA	1.95	0.48
1:p:656:VAL:HG11	1:6:324:LYS:HE3	1.95	0.48
1:q:444:TYR:CZ	1:r:360:ALA:HB1	2.48	0.48
1:r:382:THR:HG22	1:r:383:LEU:N	2.28	0.48
1:v:406:LEU:N	1:v:406:LEU:CD1	2.76	0.48
1:B:431:GLN:NE2	1:J:354:PRO:HB3	2.23	0.48
1:C:656:VAL:HG11	1:D:324:LYS:HE3	1.95	0.48
1:E:444:TYR:CZ	1:Q:360:ALA:HB1	2.49	0.48
1:J:444:TYR:CZ	1:L:360:ALA:HB1	2.49	0.48
1:O:324:LYS:HE3	1:P:656:VAL:HG11	1.95	0.48
1:Q:287:PHE:CE1	1:Q:621:TRP:HH2	2.31	0.48
1:T:444:TYR:CZ	1:d:360:ALA:HB1	2.49	0.48
1:U:324:LYS:HE3	1:e:656:VAL:HG11	1.95	0.48
1:W:328:GLN:NE2	1:W:333:LYS:HG3	2.23	0.48
1:X:360:ALA:HB1	1:e:444:TYR:CZ	2.49	0.48
1:Z:382:THR:HG22	1:Z:383:LEU:N	2.28	0.48
1:c:360:ALA:HB1	1:p:444:TYR:CZ	2.48	0.48
1:e:287:PHE:CE1	1:e:621:TRP:HH2	2.31	0.48
1:e:382:THR:HG22	1:e:383:LEU:N	2.28	0.48
1:f:287:PHE:CE1	1:f:621:TRP:HH2	2.31	0.48
1:f:406:LEU:N	1:f:406:LEU:CD1	2.76	0.48
1:i:254:ASN:OD1	1:i:259:LYS:HD2	2.12	0.48
1:j:287:PHE:CE1	1:j:621:TRP:HH2	2.31	0.48
1:j:406:LEU:N	1:j:406:LEU:CD1	2.76	0.48
1:j:425:SER:OG	1:k:628:ASP:OD2	2.30	0.48
1:k:254:ASN:OD1	1:k:259:LYS:HD2	2.12	0.48
1:l:664:PHE:HA	1:n:374:MET:HE2	1.96	0.48
1:o:287:PHE:CE1	1:o:621:TRP:HH2	2.31	0.48
1:q:324:LYS:HE3	1:y:656:VAL:HG11	1.95	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:r:444:TYR:CZ	1:s:360:ALA:HB1	2.48	0.48
1:r:664:PHE:HA	1:x:374:MET:HE2	1.96	0.48
1:u:382:THR:HG22	1:u:383:LEU:N	2.29	0.48
1:w:287:PHE:CE1	1:w:621:TRP:HH2	2.31	0.48
1:w:444:TYR:CZ	1:x:360:ALA:HB1	2.49	0.48
1:z:287:PHE:CE1	1:z:621:TRP:HH2	2.31	0.48
1:6:444:TYR:CZ	1:7:360:ALA:HB1	2.49	0.48
1:7:382:THR:HG22	1:7:383:LEU:N	2.29	0.48
1:A:287:PHE:CE1	1:A:621:TRP:HH2	2.31	0.48
1:C:360:ALA:HB1	1:M:444:TYR:CZ	2.49	0.48
1:E:360:ALA:HB1	1:F:444:TYR:CZ	2.49	0.48
1:E:382:THR:HG22	1:E:383:LEU:N	2.29	0.48
1:E:531:ASP:OD1	1:E:569:LYS:NZ	2.28	0.48
1:H:329:ASN:O	1:H:332:THR:OG1	2.21	0.48
1:H:656:VAL:HG11	1:Z:324:LYS:HE3	1.95	0.48
1:H:696:ARG:NE	1:H:698:ASN:OD1	2.36	0.48
1:I:324:LYS:HE3	1:J:656:VAL:HG11	1.95	0.48
1:K:324:LYS:HE3	1:L:656:VAL:HG11	1.95	0.48
1:L:374:MET:HE2	1:b:664:PHE:HA	1.96	0.48
1:N:406:LEU:N	1:N:406:LEU:CD1	2.76	0.48
1:N:431:GLN:NE2	1:P:354:PRO:HB3	2.23	0.48
1:Q:374:MET:HE2	1:S:664:PHE:HA	1.96	0.48
1:T:656:VAL:HG11	1:i:324:LYS:HE3	1.95	0.48
1:V:444:TYR:CZ	1:e:360:ALA:HB1	2.49	0.48
1:V:656:VAL:HG11	1:W:324:LYS:HE3	1.95	0.48
1:V:664:PHE:HA	1:W:374:MET:HE2	1.96	0.48
1:X:374:MET:HE2	1:Y:664:PHE:HA	1.96	0.48
1:Z:696:ARG:NE	1:Z:698:ASN:OD1	2.36	0.48
1:d:444:TYR:CZ	1:l:360:ALA:HB1	2.48	0.48
1:e:328:GLN:NE2	1:e:333:LYS:HG3	2.23	0.48
1:f:431:GLN:NE2	1:h:354:PRO:HB3	2.23	0.48
1:g:287:PHE:CE1	1:g:621:TRP:HH2	2.31	0.48
1:g:664:PHE:HA	1:k:374:MET:HE2	1.96	0.48
1:h:382:THR:HG22	1:h:383:LEU:N	2.28	0.48
1:i:406:LEU:N	1:i:406:LEU:CD1	2.76	0.48
1:k:696:ARG:NE	1:k:698:ASN:OD1	2.36	0.48
1:m:382:THR:HG22	1:m:383:LEU:N	2.28	0.48
1:n:287:PHE:CE1	1:n:621:TRP:HH2	2.31	0.48
1:w:360:ALA:HB1	1:y:444:TYR:CZ	2.49	0.48
1:w:382:THR:HG22	1:w:383:LEU:N	2.29	0.48
1:x:346:PHE:HB3	1:x:403:SER:HA	1.96	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:z:360:ALA:HB1	1:2:444:TYR:CZ	2.48	0.48
1:1:444:TYR:CZ	1:2:360:ALA:HB1	2.49	0.48
1:2:374:MET:HE2	1:3:664:PHE:HA	1.95	0.48
1:3:406:LEU:N	1:3:406:LEU:CD1	2.76	0.48
1:3:636:LEU:HD11	1:4:481:LEU:CD1	2.42	0.48
1:4:406:LEU:N	1:4:406:LEU:CD1	2.76	0.48
1:8:287:PHE:CE1	1:8:621:TRP:HH2	2.31	0.48
1:A:346:PHE:HB3	1:A:403:SER:HA	1.96	0.48
1:A:406:LEU:N	1:A:406:LEU:CD1	2.76	0.48
1:B:664:PHE:HA	1:C:374:MET:HE2	1.96	0.48
1:C:444:TYR:CZ	1:b:360:ALA:HB1	2.48	0.48
1:D:382:THR:HG22	1:D:383:LEU:N	2.29	0.48
1:E:431:GLN:NE2	1:Q:354:PRO:HB3	2.23	0.48
1:F:324:LYS:HE3	1:G:656:VAL:HG11	1.96	0.48
1:G:254:ASN:ND2	1:G:377:GLN:NE2	2.62	0.48
1:H:324:LYS:HE3	1:I:656:VAL:HG11	1.95	0.48
1:H:346:PHE:HB3	1:H:403:SER:HA	1.96	0.48
1:I:578:GLN:OE1	1:I:597:ASN:ND2	2.47	0.48
1:J:287:PHE:CE1	1:J:621:TRP:HH2	2.31	0.48
1:K:382:THR:HG22	1:K:383:LEU:N	2.29	0.48
1:P:287:PHE:CE1	1:P:621:TRP:HH2	2.31	0.48
1:S:406:LEU:N	1:S:406:LEU:CD1	2.76	0.48
1:T:627:THR:CG2	1:l:610:GLN:HE21	2.24	0.48
1:U:578:GLN:OE1	1:U:597:ASN:ND2	2.47	0.48
1:Y:578:GLN:OE1	1:Y:597:ASN:ND2	2.47	0.48
1:Z:360:ALA:HB1	1:3:444:TYR:CZ	2.48	0.48
1:Z:656:VAL:HG11	1:a:324:LYS:HE3	1.95	0.48
1:a:406:LEU:N	1:a:406:LEU:CD1	2.76	0.48
1:b:374:MET:HE2	1:o:664:PHE:HA	1.95	0.48
1:e:702:GLN:N	1:f:704:THR:OG1	2.37	0.48
1:h:254:ASN:ND2	1:h:377:GLN:NE2	2.62	0.48
1:h:254:ASN:OD1	1:h:259:LYS:HD2	2.12	0.48
1:i:287:PHE:CE1	1:i:621:TRP:HH2	2.31	0.48
1:k:382:THR:HG22	1:k:383:LEU:N	2.29	0.48
1:o:346:PHE:HB3	1:o:403:SER:HA	1.96	0.48
1:p:254:ASN:ND2	1:p:377:GLN:NE2	2.62	0.48
1:q:328:GLN:NE2	1:q:333:LYS:HG3	2.23	0.48
1:r:578:GLN:OE1	1:r:597:ASN:ND2	2.47	0.48
1:t:578:GLN:OE1	1:t:597:ASN:ND2	2.47	0.48
1:t:656:VAL:HG11	1:y:324:LYS:HE3	1.95	0.48
1:v:578:GLN:OE1	1:v:597:ASN:ND2	2.47	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:3:360:ALA:HB1	1:4:444:TYR:CZ	2.48	0.48
1:4:287:PHE:CE1	1:4:621:TRP:HH2	2.31	0.48
1:5:254:ASN:ND2	1:5:377:GLN:NE2	2.62	0.48
1:B:254:ASN:ND2	1:B:377:GLN:NE2	2.62	0.48
1:B:360:ALA:HB1	1:L:444:TYR:CZ	2.48	0.48
1:B:444:TYR:CZ	1:J:360:ALA:HB1	2.48	0.48
1:D:664:PHE:HA	1:E:374:MET:HE2	1.96	0.48
1:K:664:PHE:HA	1:7:374:MET:HE2	1.96	0.48
1:M:287:PHE:CE1	1:M:621:TRP:HH2	2.31	0.48
1:N:287:PHE:CE1	1:N:621:TRP:HH2	2.31	0.48
1:N:324:LYS:HE3	1:m:656:VAL:HG11	1.95	0.48
1:O:444:TYR:CZ	1:m:360:ALA:HB1	2.49	0.48
1:Q:254:ASN:ND2	1:Q:377:GLN:NE2	2.62	0.48
1:R:254:ASN:ND2	1:R:377:GLN:NE2	2.62	0.48
1:R:578:GLN:OE1	1:R:597:ASN:ND2	2.47	0.48
1:U:346:PHE:HB3	1:U:403:SER:HA	1.96	0.48
1:X:346:PHE:HB3	1:X:403:SER:HA	1.96	0.48
1:Y:457:THR:HG23	1:Y:458:GLN:HG3	1.96	0.48
1:b:254:ASN:ND2	1:b:377:GLN:NE2	2.62	0.48
1:c:254:ASN:C	1:c:256:HIS:N	2.72	0.48
1:c:578:GLN:OE1	1:c:597:ASN:ND2	2.47	0.48
1:c:656:VAL:HG11	1:s:324:LYS:HE3	1.95	0.48
1:g:254:ASN:OD1	1:g:259:LYS:HD2	2.12	0.48
1:g:324:LYS:HE3	1:1:656:VAL:HG11	1.95	0.48
1:g:382:THR:HG22	1:g:383:LEU:N	2.28	0.48
1:g:406:LEU:N	1:g:406:LEU:CD1	2.76	0.48
1:h:406:LEU:N	1:h:406:LEU:CD1	2.76	0.48
1:i:360:ALA:HB1	1:k:444:TYR:CZ	2.48	0.48
1:j:656:VAL:HG11	1:l:324:LYS:HE3	1.95	0.48
1:k:254:ASN:ND2	1:k:377:GLN:NE2	2.62	0.48
1:m:324:LYS:HE3	1:s:656:VAL:HG11	1.95	0.48
1:n:382:THR:HG22	1:n:383:LEU:N	2.28	0.48
1:n:406:LEU:N	1:n:406:LEU:CD1	2.76	0.48
1:o:254:ASN:ND2	1:o:377:GLN:NE2	2.62	0.48
1:o:406:LEU:N	1:o:406:LEU:CD1	2.76	0.48
1:o:444:TYR:CZ	1:p:360:ALA:HB1	2.48	0.48
1:o:532:ASP:OD1	1:p:385:ASN:ND2	2.47	0.48
1:q:374:MET:HE2	1:y:664:PHE:HA	1.96	0.48
1:r:457:THR:HG23	1:r:458:GLN:HG3	1.96	0.48
1:u:328:GLN:NE2	1:u:333:LYS:HG3	2.23	0.48
1:u:406:LEU:N	1:u:406:LEU:CD1	2.76	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:u:656:VAL:HG11	1:5:324:LYS:HE3	1.95	0.48
1:u:664:PHE:HA	1:5:374:MET:HE2	1.96	0.48
1:v:382:THR:HG22	1:v:383:LEU:N	2.28	0.48
1:y:578:GLN:OE1	1:y:597:ASN:ND2	2.47	0.48
1:2:578:GLN:OE1	1:2:597:ASN:ND2	2.47	0.48
1:2:704:THR:OG1	1:4:702:GLN:N	2.37	0.48
1:4:382:THR:HG22	1:4:383:LEU:N	2.29	0.48
1:A:254:ASN:ND2	1:A:377:GLN:NE2	2.62	0.48
1:A:324:LYS:HE3	1:E:656:VAL:HG11	1.96	0.48
1:B:254:ASN:C	1:B:256:HIS:N	2.72	0.48
1:F:254:ASN:C	1:F:256:HIS:N	2.72	0.48
1:F:287:PHE:CE1	1:F:621:TRP:HH2	2.31	0.48
1:I:254:ASN:C	1:I:256:HIS:N	2.72	0.48
1:J:457:THR:HG23	1:J:458:GLN:HG3	1.96	0.48
1:K:444:TYR:CZ	1:a:360:ALA:HB1	2.49	0.48
1:L:382:THR:HG22	1:L:383:LEU:N	2.28	0.48
1:M:346:PHE:HB3	1:M:403:SER:HA	1.96	0.48
1:M:360:ALA:HB1	1:b:444:TYR:CZ	2.49	0.48
1:M:457:THR:HG23	1:M:458:GLN:HG3	1.96	0.48
1:N:382:THR:HG22	1:N:383:LEU:N	2.29	0.48
1:O:360:ALA:HB1	1:n:444:TYR:CZ	2.49	0.48
1:P:578:GLN:OE1	1:P:597:ASN:ND2	2.47	0.48
1:R:382:THR:HG22	1:R:383:LEU:N	2.28	0.48
1:T:457:THR:HG23	1:T:458:GLN:HG3	1.96	0.48
1:V:578:GLN:OE1	1:V:597:ASN:ND2	2.47	0.48
1:W:254:ASN:ND2	1:W:377:GLN:NE2	2.62	0.48
1:Z:254:ASN:ND2	1:Z:377:GLN:NE2	2.62	0.48
1:a:287:PHE:CE1	1:a:621:TRP:HH2	2.31	0.48
1:a:431:GLN:NE2	1:8:354:PRO:HB3	2.24	0.48
1:a:444:TYR:CZ	1:8:360:ALA:HB1	2.48	0.48
1:b:254:ASN:C	1:b:256:HIS:N	2.72	0.48
1:d:578:GLN:OE1	1:d:597:ASN:ND2	2.47	0.48
1:e:254:ASN:ND2	1:e:377:GLN:NE2	2.62	0.48
1:f:578:GLN:OE1	1:f:597:ASN:ND2	2.47	0.48
1:f:664:PHE:HA	1:z:374:MET:HE2	1.96	0.48
1:g:360:ALA:HB1	1:h:444:TYR:CZ	2.48	0.48
1:g:457:THR:HG23	1:g:458:GLN:HG3	1.96	0.48
1:i:382:THR:HG22	1:i:383:LEU:N	2.28	0.48
1:i:457:THR:HG23	1:i:458:GLN:HG3	1.96	0.48
1:j:324:LYS:HE3	1:x:656:VAL:HG11	1.95	0.48
1:j:578:GLN:OE1	1:j:597:ASN:ND2	2.47	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:k:287:PHE:CE1	1:k:621:TRP:HH2	2.31	0.48
1:k:406:LEU:N	1:k:406:LEU:CD1	2.76	0.48
1:n:578:GLN:OE1	1:n:597:ASN:ND2	2.47	0.48
1:q:254:ASN:ND2	1:q:377:GLN:NE2	2.62	0.48
1:s:346:PHE:HB3	1:s:403:SER:HA	1.96	0.48
1:t:254:ASN:ND2	1:t:377:GLN:NE2	2.62	0.48
1:t:382:THR:HG22	1:t:383:LEU:N	2.29	0.48
1:t:704:THR:OG1	1:5:702:GLN:N	2.37	0.48
1:u:324:LYS:HE3	1:2:656:VAL:HG11	1.96	0.48
1:v:346:PHE:HB3	1:v:403:SER:HA	1.96	0.48
1:w:254:ASN:ND2	1:w:377:GLN:NE2	2.62	0.48
1:w:328:GLN:NE2	1:w:333:LYS:HG3	2.23	0.48
1:y:406:LEU:N	1:y:406:LEU:CD1	2.76	0.48
1:y:457:THR:HG23	1:y:458:GLN:HG3	1.96	0.48
1:z:664:PHE:HA	1:4:374:MET:HE2	1.96	0.48
1:1:457:THR:HG23	1:1:458:GLN:HG3	1.96	0.48
1:4:578:GLN:OE1	1:4:597:ASN:ND2	2.47	0.48
1:6:287:PHE:CE1	1:6:621:TRP:HH2	2.31	0.48
1:8:578:GLN:OE1	1:8:597:ASN:ND2	2.47	0.48
1:B:656:VAL:HG11	1:C:324:LYS:HE3	1.95	0.48
1:C:287:PHE:CE1	1:C:621:TRP:HH2	2.31	0.48
1:C:382:THR:HG22	1:C:383:LEU:N	2.28	0.48
1:F:382:THR:HG22	1:F:383:LEU:N	2.29	0.48
1:G:406:LEU:N	1:G:406:LEU:CD1	2.76	0.48
1:H:406:LEU:N	1:H:406:LEU:CD1	2.76	0.48
1:K:346:PHE:HB3	1:K:403:SER:HA	1.96	0.48
1:L:324:LYS:HE3	1:b:656:VAL:HG11	1.95	0.48
1:M:664:PHE:HA	1:c:374:MET:HE2	1.96	0.48
1:Q:324:LYS:HE3	1:S:656:VAL:HG11	1.95	0.48
1:T:382:THR:HG22	1:T:383:LEU:N	2.29	0.48
1:U:382:THR:HG22	1:U:383:LEU:N	2.29	0.48
1:V:457:THR:HG23	1:V:458:GLN:HG3	1.96	0.48
1:a:382:THR:HG22	1:a:383:LEU:N	2.29	0.48
1:e:578:GLN:OE1	1:e:597:ASN:ND2	2.47	0.48
1:h:287:PHE:CE1	1:h:621:TRP:HH2	2.31	0.48
1:l:382:THR:HG22	1:l:383:LEU:N	2.29	0.48
1:n:254:ASN:ND2	1:n:377:GLN:NE2	2.62	0.48
1:o:382:THR:HG22	1:o:383:LEU:N	2.29	0.48
1:q:254:ASN:C	1:q:256:HIS:N	2.72	0.48
1:1:287:PHE:CE1	1:1:621:TRP:HH2	2.31	0.48
1:1:382:THR:HG22	1:1:383:LEU:N	2.29	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:4:254:ASN:ND2	1:4:377:GLN:NE2	2.62	0.48
1:5:444:TYR:CZ	1:6:360:ALA:HB1	2.48	0.48
1:5:578:GLN:OE1	1:5:597:ASN:ND2	2.47	0.48
1:6:254:ASN:C	1:6:256:HIS:N	2.72	0.48
1:A:664:PHE:HA	1:B:374:MET:HE2	1.96	0.48
1:D:346:PHE:HB3	1:D:403:SER:HA	1.96	0.48
1:D:360:ALA:HB1	1:P:444:TYR:CZ	2.49	0.48
1:E:578:GLN:OE1	1:E:597:ASN:ND2	2.47	0.48
1:H:382:THR:HG22	1:H:383:LEU:N	2.28	0.48
1:I:374:MET:HE2	1:J:664:PHE:HA	1.96	0.48
1:K:360:ALA:HB1	1:8:444:TYR:CZ	2.49	0.48
1:O:664:PHE:HA	1:d:374:MET:HE2	1.96	0.48
1:P:346:PHE:HB3	1:P:403:SER:HA	1.96	0.48
1:Q:382:THR:HG22	1:Q:383:LEU:N	2.29	0.48
1:S:254:ASN:ND2	1:S:377:GLN:NE2	2.62	0.48
1:S:374:MET:HE2	1:d:664:PHE:HA	1.95	0.48
1:T:287:PHE:CE1	1:T:621:TRP:HH2	2.31	0.48
1:T:431:GLN:NE2	1:d:354:PRO:HB3	2.24	0.48
1:V:406:LEU:N	1:V:406:LEU:CD1	2.76	0.48
1:W:254:ASN:C	1:W:256:HIS:N	2.72	0.48
1:d:704:THR:OG1	1:n:702:GLN:N	2.37	0.48
1:e:406:LEU:N	1:e:406:LEU:CD1	2.76	0.48
1:g:346:PHE:HB3	1:g:403:SER:HA	1.96	0.48
1:i:346:PHE:HB3	1:i:403:SER:HA	1.96	0.48
1:j:254:ASN:ND2	1:j:377:GLN:NE2	2.62	0.48
1:k:340:THR:HB	1:k:407:ARG:NH2	2.29	0.48
1:l:254:ASN:ND2	1:l:377:GLN:NE2	2.62	0.48
1:m:254:ASN:ND2	1:m:377:GLN:NE2	2.62	0.48
1:n:461:GLN:H	1:n:461:GLN:CD	2.22	0.48
1:p:406:LEU:N	1:p:406:LEU:CD1	2.76	0.48
1:q:578:GLN:OE1	1:q:597:ASN:ND2	2.47	0.48
1:s:340:THR:HB	1:s:407:ARG:NH2	2.29	0.48
1:t:664:PHE:HA	1:y:374:MET:HE2	1.96	0.48
1:w:578:GLN:OE1	1:w:597:ASN:ND2	2.47	0.48
1:x:610:GLN:HE21	1:y:627:THR:CG2	2.25	0.48
1:z:254:ASN:ND2	1:z:377:GLN:NE2	2.62	0.48
1:z:346:PHE:HB3	1:z:403:SER:HA	1.96	0.48
1:z:382:THR:HG22	1:z:383:LEU:N	2.29	0.48
1:z:610:GLN:HE21	1:1:627:THR:CG2	2.25	0.48
1:5:354:PRO:HB3	1:7:431:GLN:NE2	2.24	0.48
1:5:382:THR:HG22	1:5:383:LEU:N	2.28	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:6:382:THR:HG22	1:6:383:LEU:N	2.28	0.48
1:A:382:THR:HG22	1:A:383:LEU:N	2.29	0.48
1:B:578:GLN:OE1	1:B:597:ASN:ND2	2.47	0.48
1:C:664:PHE:HA	1:D:374:MET:HE2	1.96	0.48
1:D:444:TYR:CZ	1:N:360:ALA:HB1	2.49	0.48
1:D:656:VAL:HG11	1:E:324:LYS:HE3	1.95	0.48
1:F:385:ASN:ND2	1:Q:532:ASP:OD1	2.47	0.48
1:F:664:PHE:HA	1:R:374:MET:HE2	1.95	0.48
1:G:444:TYR:CZ	1:I:360:ALA:HB1	2.49	0.48
1:H:340:THR:HB	1:H:407:ARG:NH2	2.29	0.48
1:I:254:ASN:ND2	1:I:377:GLN:NE2	2.62	0.48
1:J:346:PHE:HB3	1:J:403:SER:HA	1.96	0.48
1:J:578:GLN:OE1	1:J:597:ASN:ND2	2.47	0.48
1:L:287:PHE:CE1	1:L:621:TRP:HH2	2.31	0.48
1:M:578:GLN:OE1	1:M:597:ASN:ND2	2.47	0.48
1:N:444:TYR:CZ	1:P:360:ALA:HB1	2.49	0.48
1:N:578:GLN:OE1	1:N:597:ASN:ND2	2.47	0.48
1:O:382:THR:HG22	1:O:383:LEU:N	2.28	0.48
1:Q:340:THR:HB	1:Q:407:ARG:NH2	2.29	0.48
1:Q:346:PHE:HB3	1:Q:403:SER:HA	1.96	0.48
1:R:406:LEU:N	1:R:406:LEU:CD1	2.76	0.48
1:R:664:PHE:HA	1:V:374:MET:HE2	1.96	0.48
1:W:578:GLN:OE1	1:W:597:ASN:ND2	2.47	0.48
1:X:578:GLN:OE1	1:X:597:ASN:ND2	2.47	0.48
1:X:656:VAL:HG11	1:f:324:LYS:HE3	1.95	0.48
1:a:254:ASN:C	1:a:256:HIS:N	2.72	0.48
1:a:578:GLN:OE1	1:a:597:ASN:ND2	2.47	0.48
1:b:623:LYS:HB2	1:b:645:PRO:HG3	1.96	0.48
1:c:254:ASN:ND2	1:c:377:GLN:NE2	2.62	0.48
1:f:254:ASN:ND2	1:f:377:GLN:NE2	2.62	0.48
1:g:254:ASN:C	1:g:256:HIS:N	2.72	0.48
1:g:578:GLN:OE1	1:g:597:ASN:ND2	2.47	0.48
1:h:254:ASN:C	1:h:256:HIS:N	2.72	0.48
1:i:578:GLN:OE1	1:i:597:ASN:ND2	2.47	0.48
1:j:704:THR:OG1	1:w:702:GLN:N	2.37	0.48
1:k:254:ASN:C	1:k:256:HIS:N	2.72	0.48
1:l:328:GLN:NE2	1:l:333:LYS:HG3	2.23	0.48
1:l:346:PHE:HB3	1:l:403:SER:HA	1.96	0.48
1:m:287:PHE:CE1	1:m:621:TRP:HH2	2.31	0.48
1:o:578:GLN:OE1	1:o:597:ASN:ND2	2.47	0.48
1:q:610:GLN:HE21	1:r:627:THR:CG2	2.25	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:r:287:PHE:CE1	1:r:621:TRP:HH2	2.31	0.48
1:s:382:THR:HG22	1:s:383:LEU:N	2.29	0.48
1:s:406:LEU:N	1:s:406:LEU:CD1	2.76	0.48
1:s:457:THR:HG23	1:s:458:GLN:HG3	1.96	0.48
1:t:346:PHE:HB3	1:t:403:SER:HA	1.96	0.48
1:t:374:MET:HE2	1:6:664:PHE:HA	1.96	0.48
1:t:406:LEU:N	1:t:406:LEU:CD1	2.76	0.48
1:u:254:ASN:ND2	1:u:377:GLN:NE2	2.62	0.48
1:x:340:THR:HB	1:x:407:ARG:NH2	2.29	0.48
1:x:382:THR:HG22	1:x:383:LEU:N	2.28	0.48
1:z:340:THR:HB	1:z:407:ARG:NH2	2.29	0.48
1:1:532:ASP:OD1	1:2:385:ASN:ND2	2.47	0.48
1:2:461:GLN:H	1:2:461:GLN:CD	2.22	0.48
1:4:457:THR:HG23	1:4:458:GLN:HG3	1.96	0.48
1:4:461:GLN:H	1:4:461:GLN:CD	2.22	0.48
1:5:340:THR:HB	1:5:407:ARG:NH2	2.29	0.48
1:5:346:PHE:HB3	1:5:403:SER:HA	1.96	0.48
1:7:340:THR:HB	1:7:407:ARG:NH2	2.29	0.48
1:7:346:PHE:HB3	1:7:403:SER:HA	1.96	0.48
1:7:578:GLN:OE1	1:7:597:ASN:ND2	2.47	0.48
1:8:340:THR:HB	1:8:407:ARG:NH2	2.29	0.48
1:8:406:LEU:N	1:8:406:LEU:CD1	2.76	0.48
1:A:328:GLN:NE2	1:A:333:LYS:HG3	2.23	0.47
1:A:578:GLN:OE1	1:A:597:ASN:ND2	2.47	0.47
1:B:346:PHE:HB3	1:B:403:SER:HA	1.96	0.47
1:C:385:ASN:ND2	1:M:532:ASP:OD1	2.47	0.47
1:D:287:PHE:CE1	1:D:621:TRP:HH2	2.31	0.47
1:D:532:ASP:OD1	1:N:385:ASN:ND2	2.47	0.47
1:E:346:PHE:HB3	1:E:403:SER:HA	1.96	0.47
1:E:623:LYS:HB2	1:E:645:PRO:HG3	1.96	0.47
1:H:457:THR:HG23	1:H:458:GLN:HG3	1.96	0.47
1:I:461:GLN:H	1:I:461:GLN:CD	2.22	0.47
1:J:382:THR:HG22	1:J:383:LEU:N	2.28	0.47
1:J:431:GLN:NE2	1:L:354:PRO:HB3	2.23	0.47
1:J:532:ASP:OD1	1:L:385:ASN:ND2	2.47	0.47
1:K:374:MET:HE2	1:L:664:PHE:HA	1.96	0.47
1:K:532:ASP:OD1	1:a:385:ASN:ND2	2.47	0.47
1:K:656:VAL:HG11	1:7:324:LYS:HE3	1.95	0.47
1:L:578:GLN:OE1	1:L:597:ASN:ND2	2.47	0.47
1:N:254:ASN:C	1:N:256:HIS:N	2.72	0.47
1:N:610:GLN:HE21	1:P:627:THR:CG2	2.25	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:617:GLN:N	1:N:617:GLN:OE1	2.47	0.47
1:O:254:ASN:ND2	1:O:377:GLN:NE2	2.62	0.47
1:P:340:THR:HB	1:P:407:ARG:NH2	2.29	0.47
1:P:406:LEU:N	1:P:406:LEU:CD1	2.76	0.47
1:Q:457:THR:HG23	1:Q:458:GLN:HG3	1.96	0.47
1:Q:578:GLN:OE1	1:Q:597:ASN:ND2	2.47	0.47
1:R:346:PHE:HB3	1:R:403:SER:HA	1.96	0.47
1:R:444:TYR:CZ	1:S:360:ALA:HB1	2.48	0.47
1:R:617:GLN:OE1	1:R:617:GLN:N	2.47	0.47
1:S:623:LYS:HB2	1:S:645:PRO:HG3	1.96	0.47
1:X:340:THR:HB	1:X:407:ARG:NH2	2.29	0.47
1:X:382:THR:HG22	1:X:383:LEU:N	2.29	0.47
1:X:385:ASN:ND2	1:e:532:ASP:OD1	2.47	0.47
1:Z:287:PHE:CE1	1:Z:621:TRP:HH2	2.31	0.47
1:Z:340:THR:HB	1:Z:407:ARG:NH2	2.29	0.47
1:Z:578:GLN:OE1	1:Z:597:ASN:ND2	2.47	0.47
1:Z:623:LYS:HB2	1:Z:645:PRO:HG3	1.96	0.47
1:a:617:GLN:N	1:a:617:GLN:OE1	2.47	0.47
1:b:287:PHE:CE1	1:b:621:TRP:HH2	2.31	0.47
1:b:340:THR:HB	1:b:407:ARG:NH2	2.29	0.47
1:b:578:GLN:OE1	1:b:597:ASN:ND2	2.47	0.47
1:c:461:GLN:H	1:c:461:GLN:CD	2.22	0.47
1:d:461:GLN:H	1:d:461:GLN:CD	2.22	0.47
1:e:340:THR:HB	1:e:407:ARG:NH2	2.29	0.47
1:e:346:PHE:HB3	1:e:403:SER:HA	1.96	0.47
1:e:374:MET:HE2	1:h:664:PHE:HA	1.96	0.47
1:f:340:THR:HB	1:f:407:ARG:NH2	2.29	0.47
1:h:340:THR:HB	1:h:407:ARG:NH2	2.29	0.47
1:i:254:ASN:C	1:i:256:HIS:N	2.72	0.47
1:l:340:THR:HB	1:l:407:ARG:NH2	2.29	0.47
1:m:578:GLN:OE1	1:m:597:ASN:ND2	2.47	0.47
1:m:702:GLN:N	1:r:704:THR:OG1	2.37	0.47
1:n:457:THR:HG23	1:n:458:GLN:HG3	1.96	0.47
1:q:431:GLN:NE2	1:r:354:PRO:HB3	2.24	0.47
1:t:617:GLN:OE1	1:t:617:GLN:N	2.47	0.47
1:u:287:PHE:CE1	1:u:621:TRP:HH2	2.31	0.47
1:u:623:LYS:HB2	1:u:645:PRO:HG3	1.96	0.47
1:w:340:THR:HB	1:w:407:ARG:NH2	2.29	0.47
1:w:406:LEU:N	1:w:406:LEU:CD1	2.76	0.47
1:x:578:GLN:OE1	1:x:597:ASN:ND2	2.47	0.47
1:1:406:LEU:N	1:1:406:LEU:CD1	2.76	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:3:254:ASN:ND2	1:3:377:GLN:NE2	2.62	0.47
1:3:340:THR:HB	1:3:407:ARG:NH2	2.29	0.47
1:3:382:THR:HG22	1:3:383:LEU:N	2.29	0.47
1:5:457:THR:HG23	1:5:458:GLN:HG3	1.96	0.47
1:8:346:PHE:HB3	1:8:403:SER:HA	1.96	0.47
1:B:287:PHE:CE1	1:B:621:TRP:HH2	2.31	0.47
1:B:340:THR:HB	1:B:407:ARG:NH2	2.29	0.47
1:B:623:LYS:HB2	1:B:645:PRO:HG3	1.97	0.47
1:C:254:ASN:C	1:C:256:HIS:N	2.72	0.47
1:C:340:THR:HB	1:C:407:ARG:NH2	2.29	0.47
1:F:461:GLN:H	1:F:461:GLN:CD	2.22	0.47
1:G:287:PHE:CE1	1:G:621:TRP:HH2	2.31	0.47
1:G:340:THR:HB	1:G:407:ARG:NH2	2.29	0.47
1:H:444:TYR:CZ	1:W:360:ALA:HB1	2.48	0.47
1:J:340:THR:HB	1:J:407:ARG:NH2	2.29	0.47
1:K:287:PHE:CE1	1:K:621:TRP:HH2	2.31	0.47
1:L:254:ASN:ND2	1:L:377:GLN:NE2	2.62	0.47
1:M:461:GLN:H	1:M:461:GLN:CD	2.22	0.47
1:N:532:ASP:OD1	1:P:385:ASN:ND2	2.47	0.47
1:O:578:GLN:OE1	1:O:597:ASN:ND2	2.47	0.47
1:P:382:THR:HG22	1:P:383:LEU:N	2.29	0.47
1:R:457:THR:HG23	1:R:458:GLN:HG3	1.96	0.47
1:S:287:PHE:CE1	1:S:621:TRP:HH2	2.31	0.47
1:S:617:GLN:N	1:S:617:GLN:OE1	2.47	0.47
1:T:346:PHE:HB3	1:T:403:SER:HA	1.96	0.47
1:T:578:GLN:OE1	1:T:597:ASN:ND2	2.47	0.47
1:U:461:GLN:H	1:U:461:GLN:CD	2.22	0.47
1:V:623:LYS:HB2	1:V:645:PRO:HG3	1.96	0.47
1:V:627:THR:CG2	1:X:610:GLN:HE21	2.25	0.47
1:X:312:LYS:O	1:X:418:PHE:N	2.43	0.47
1:X:461:GLN:H	1:X:461:GLN:CD	2.22	0.47
1:Y:287:PHE:CE1	1:Y:621:TRP:HH2	2.31	0.47
1:b:346:PHE:HB3	1:b:403:SER:HA	1.96	0.47
1:j:340:THR:HB	1:j:407:ARG:NH2	2.29	0.47
1:k:346:PHE:HB3	1:k:403:SER:HA	1.96	0.47
1:k:664:PHE:HA	1:w:374:MET:HE2	1.96	0.47
1:l:461:GLN:H	1:l:461:GLN:CD	2.22	0.47
1:l:578:GLN:OE1	1:l:597:ASN:ND2	2.47	0.47
1:m:340:THR:HB	1:m:407:ARG:NH2	2.29	0.47
1:m:623:LYS:HB2	1:m:645:PRO:HG3	1.96	0.47
1:s:287:PHE:CE1	1:s:621:TRP:HH2	2.31	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:s:617:GLN:OE1	1:s:617:GLN:N	2.47	0.47
1:t:324:LYS:HE3	1:6:656:VAL:HG11	1.95	0.47
1:t:425:SER:OG	1:u:628:ASP:OD2	2.30	0.47
1:u:444:TYR:CZ	1:v:360:ALA:HB1	2.48	0.47
1:w:346:PHE:HB3	1:w:403:SER:HA	1.96	0.47
1:y:287:PHE:CE1	1:y:621:TRP:HH2	2.31	0.47
1:z:328:GLN:NE2	1:z:333:LYS:HG3	2.23	0.47
1:z:385:ASN:ND2	1:2:532:ASP:OD1	2.47	0.47
1:z:461:GLN:H	1:z:461:GLN:CD	2.22	0.47
1:z:578:GLN:OE1	1:z:597:ASN:ND2	2.47	0.47
1:1:346:PHE:HB3	1:1:403:SER:HA	1.96	0.47
1:2:324:LYS:HE3	1:3:656:VAL:HG11	1.96	0.47
1:3:461:GLN:H	1:3:461:GLN:CD	2.22	0.47
1:3:531:ASP:OD1	1:3:569:LYS:NZ	2.28	0.47
1:3:578:GLN:OE1	1:3:597:ASN:ND2	2.47	0.47
1:4:340:THR:HB	1:4:407:ARG:NH2	2.29	0.47
1:5:656:VAL:HG11	1:8:324:LYS:HE3	1.95	0.47
1:6:340:THR:HB	1:6:407:ARG:NH2	2.29	0.47
1:7:623:LYS:HB2	1:7:645:PRO:HG3	1.97	0.47
1:8:382:THR:HG22	1:8:383:LEU:N	2.29	0.47
1:B:457:THR:HG23	1:B:458:GLN:HG3	1.96	0.47
1:C:254:ASN:ND2	1:C:377:GLN:NE2	2.62	0.47
1:C:354:PRO:HB3	1:M:431:GLN:NE2	2.23	0.47
1:C:578:GLN:OE1	1:C:597:ASN:ND2	2.47	0.47
1:D:457:THR:HG23	1:D:458:GLN:HG3	1.96	0.47
1:E:340:THR:HB	1:E:407:ARG:NH2	2.29	0.47
1:E:406:LEU:N	1:E:406:LEU:CD1	2.76	0.47
1:G:457:THR:HG23	1:G:458:GLN:HG3	1.96	0.47
1:G:617:GLN:OE1	1:G:617:GLN:N	2.47	0.47
1:H:287:PHE:CE1	1:H:621:TRP:HH2	2.31	0.47
1:H:578:GLN:OE1	1:H:597:ASN:ND2	2.47	0.47
1:I:287:PHE:CE1	1:I:621:TRP:HH2	2.31	0.47
1:I:340:THR:HB	1:I:407:ARG:NH2	2.29	0.47
1:J:254:ASN:ND2	1:J:377:GLN:NE2	2.62	0.47
1:J:312:LYS:O	1:J:418:PHE:N	2.43	0.47
1:J:461:GLN:H	1:J:461:GLN:CD	2.22	0.47
1:K:254:ASN:C	1:K:256:HIS:N	2.72	0.47
1:M:254:ASN:ND2	1:M:377:GLN:NE2	2.62	0.47
1:M:340:THR:HB	1:M:407:ARG:NH2	2.29	0.47
1:M:382:THR:HG22	1:M:383:LEU:N	2.29	0.47
1:O:461:GLN:H	1:O:461:GLN:CD	2.22	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:O:531:ASP:OD1	1:O:569:LYS:NZ	2.28	0.47
1:P:324:LYS:HE3	1:Q:656:VAL:HG11	1.95	0.47
1:Q:623:LYS:HB2	1:Q:645:PRO:HG3	1.96	0.47
1:S:346:PHE:HB3	1:S:403:SER:HA	1.96	0.47
1:T:406:LEU:N	1:T:406:LEU:CD1	2.76	0.47
1:V:287:PHE:CE1	1:V:621:TRP:HH2	2.31	0.47
1:W:287:PHE:CE1	1:W:621:TRP:HH2	2.31	0.47
1:W:431:GLN:NE2	1:Y:354:PRO:HB3	2.23	0.47
1:W:610:GLN:HE21	1:Y:627:THR:CG2	2.25	0.47
1:X:254:ASN:ND2	1:X:377:GLN:NE2	2.62	0.47
1:X:406:LEU:N	1:X:406:LEU:CD1	2.76	0.47
1:b:457:THR:HG23	1:b:458:GLN:HG3	1.96	0.47
1:c:664:PHE:HA	1:s:374:MET:HE2	1.95	0.47
1:d:346:PHE:HB3	1:d:403:SER:HA	1.96	0.47
1:h:346:PHE:HB3	1:h:403:SER:HA	1.96	0.47
1:h:578:GLN:OE1	1:h:597:ASN:ND2	2.47	0.47
1:i:623:LYS:HB2	1:i:645:PRO:HG3	1.96	0.47
1:l:254:ASN:C	1:l:256:HIS:N	2.72	0.47
1:n:340:THR:HB	1:n:407:ARG:NH2	2.29	0.47
1:o:617:GLN:OE1	1:o:617:GLN:N	2.47	0.47
1:p:287:PHE:CE1	1:p:621:TRP:HH2	2.31	0.47
1:p:324:LYS:HE3	1:q:656:VAL:HG11	1.96	0.47
1:p:457:THR:HG23	1:p:458:GLN:HG3	1.96	0.47
1:p:617:GLN:OE1	1:p:617:GLN:N	2.47	0.47
1:q:617:GLN:N	1:q:617:GLN:OE1	2.47	0.47
1:t:444:TYR:CZ	1:u:360:ALA:HB1	2.48	0.47
1:t:457:THR:HG23	1:t:458:GLN:HG3	1.96	0.47
1:u:346:PHE:HB3	1:u:403:SER:HA	1.96	0.47
1:u:617:GLN:OE1	1:u:617:GLN:N	2.47	0.47
1:v:340:THR:HB	1:v:407:ARG:NH2	2.29	0.47
1:v:461:GLN:H	1:v:461:GLN:CD	2.22	0.47
1:w:532:ASP:OD1	1:x:385:ASN:ND2	2.48	0.47
1:x:254:ASN:ND2	1:x:377:GLN:NE2	2.62	0.47
1:x:406:LEU:N	1:x:406:LEU:CD1	2.76	0.47
1:y:623:LYS:HB2	1:y:645:PRO:HG3	1.96	0.47
1:2:346:PHE:HB3	1:2:403:SER:HA	1.96	0.47
1:5:532:ASP:OD1	1:6:385:ASN:ND2	2.48	0.47
1:6:461:GLN:H	1:6:461:GLN:CD	2.22	0.47
1:A:224:SER:O	1:E:407:ARG:HD2	2.14	0.47
1:A:464:LEU:HD23	1:G:554:ASN:HB3	1.96	0.47
1:B:617:GLN:OE1	1:B:617:GLN:N	2.47	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:254:ASN:C	1:D:256:HIS:N	2.72	0.47
1:E:287:PHE:CE1	1:E:621:TRP:HH2	2.31	0.47
1:F:340:THR:HB	1:F:407:ARG:NH2	2.29	0.47
1:F:360:ALA:HB1	1:Q:444:TYR:CZ	2.48	0.47
1:G:324:LYS:HE3	1:W:656:VAL:HG11	1.96	0.47
1:G:346:PHE:HB3	1:G:403:SER:HA	1.96	0.47
1:H:617:GLN:OE1	1:H:617:GLN:N	2.47	0.47
1:L:254:ASN:C	1:L:256:HIS:N	2.72	0.47
1:L:346:PHE:HB3	1:L:403:SER:HA	1.96	0.47
1:M:312:LYS:O	1:M:418:PHE:N	2.44	0.47
1:N:374:MET:HE2	1:m:664:PHE:HA	1.96	0.47
1:O:340:THR:HB	1:O:407:ARG:NH2	2.29	0.47
1:O:346:PHE:HB3	1:O:403:SER:HA	1.96	0.47
1:P:531:ASP:OD1	1:P:569:LYS:NZ	2.28	0.47
1:R:425:SER:OG	1:S:628:ASP:OD2	2.30	0.47
1:U:340:THR:HB	1:U:407:ARG:NH2	2.29	0.47
1:V:461:GLN:H	1:V:461:GLN:CD	2.22	0.47
1:W:617:GLN:OE1	1:W:617:GLN:N	2.47	0.47
1:Y:704:THR:OG1	1:Z:702:GLN:N	2.37	0.47
1:a:532:ASP:OD1	1:8:385:ASN:ND2	2.48	0.47
1:a:610:GLN:HE21	1:8:627:THR:CG2	2.25	0.47
1:a:623:LYS:HB2	1:a:645:PRO:HG3	1.96	0.47
1:c:340:THR:HB	1:c:407:ARG:NH2	2.29	0.47
1:e:623:LYS:HB2	1:e:645:PRO:HG3	1.96	0.47
1:f:254:ASN:C	1:f:256:HIS:N	2.72	0.47
1:h:461:GLN:H	1:h:461:GLN:CD	2.22	0.47
1:j:254:ASN:C	1:j:256:HIS:N	2.72	0.47
1:k:578:GLN:OE1	1:k:597:ASN:ND2	2.47	0.47
1:q:287:PHE:CE1	1:q:621:TRP:HH2	2.31	0.47
1:q:360:ALA:HB1	1:s:444:TYR:CZ	2.49	0.47
1:x:444:TYR:CZ	1:y:360:ALA:HB1	2.49	0.47
1:z:254:ASN:C	1:z:256:HIS:N	2.72	0.47
1:1:578:GLN:OE1	1:1:597:ASN:ND2	2.47	0.47
1:3:346:PHE:HB3	1:3:403:SER:HA	1.96	0.47
1:5:623:LYS:HB2	1:5:645:PRO:HG3	1.96	0.47
1:6:254:ASN:ND2	1:6:377:GLN:NE2	2.62	0.47
1:7:406:LEU:N	1:7:406:LEU:CD1	2.76	0.47
1:A:617:GLN:OE1	1:A:617:GLN:N	2.47	0.47
1:C:346:PHE:HB3	1:C:403:SER:HA	1.96	0.47
1:F:254:ASN:ND2	1:F:377:GLN:NE2	2.62	0.47
1:F:578:GLN:OE1	1:F:597:ASN:ND2	2.47	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:656:VAL:HG11	1:R:324:LYS:HE3	1.95	0.47
1:H:254:ASN:C	1:H:256:HIS:N	2.72	0.47
1:K:457:THR:HG23	1:K:458:GLN:HG3	1.96	0.47
1:L:340:THR:HB	1:L:407:ARG:NH2	2.29	0.47
1:P:623:LYS:HB2	1:P:645:PRO:HG3	1.96	0.47
1:T:254:ASN:ND2	1:T:377:GLN:NE2	2.62	0.47
1:V:360:ALA:HB1	1:X:444:TYR:CZ	2.49	0.47
1:V:532:ASP:OD1	1:e:385:ASN:ND2	2.48	0.47
1:X:627:THR:CG2	1:e:610:GLN:HE21	2.25	0.47
1:a:254:ASN:ND2	1:a:377:GLN:NE2	2.62	0.47
1:b:617:GLN:OE1	1:b:617:GLN:N	2.47	0.47
1:c:287:PHE:CE1	1:c:621:TRP:HH2	2.31	0.47
1:d:532:ASP:OD1	1:l:385:ASN:ND2	2.48	0.47
1:e:461:GLN:H	1:e:461:GLN:CD	2.22	0.47
1:f:444:TYR:CZ	1:h:360:ALA:HB1	2.49	0.47
1:g:254:ASN:ND2	1:g:377:GLN:NE2	2.62	0.47
1:g:623:LYS:HB2	1:g:645:PRO:HG3	1.96	0.47
1:i:696:ARG:NE	1:i:698:ASN:OD1	2.36	0.47
1:k:461:GLN:H	1:k:461:GLN:CD	2.22	0.47
1:m:374:MET:HE2	1:s:664:PHE:HA	1.95	0.47
1:o:328:GLN:NE2	1:o:333:LYS:HG3	2.23	0.47
1:s:578:GLN:OE1	1:s:597:ASN:ND2	2.47	0.47
1:w:623:LYS:HB2	1:w:645:PRO:HG3	1.97	0.47
1:x:312:LYS:O	1:x:418:PHE:N	2.44	0.47
1:z:656:VAL:HG11	1:4:324:LYS:HE3	1.95	0.47
1:1:254:ASN:ND2	1:1:377:GLN:NE2	2.62	0.47
1:2:457:THR:HG23	1:2:458:GLN:HG3	1.96	0.47
1:7:287:PHE:CE1	1:7:621:TRP:HH2	2.31	0.47
1:A:532:ASP:OD1	1:G:385:ASN:ND2	2.48	0.47
1:G:431:GLN:NE2	1:I:354:PRO:HB3	2.23	0.47
1:N:254:ASN:ND2	1:N:377:GLN:NE2	2.62	0.47
1:N:623:LYS:HB2	1:N:645:PRO:HG3	1.97	0.47
1:P:457:THR:HG23	1:P:458:GLN:HG3	1.96	0.47
1:S:444:TYR:CZ	1:U:360:ALA:HB1	2.49	0.47
1:S:578:GLN:OE1	1:S:597:ASN:ND2	2.47	0.47
1:T:254:ASN:C	1:T:256:HIS:N	2.72	0.47
1:T:374:MET:HE2	1:U:664:PHE:HA	1.96	0.47
1:U:374:MET:HE2	1:e:664:PHE:HA	1.96	0.47
1:W:346:PHE:HB3	1:W:403:SER:HA	1.96	0.47
1:W:382:THR:HG22	1:W:383:LEU:N	2.29	0.47
1:W:457:THR:HG23	1:W:458:GLN:HG3	1.96	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Z:439:PRO:HB3	1:4:381:LEU:HD21	1.97	0.47
1:b:406:LEU:N	1:b:406:LEU:CD1	2.76	0.47
1:d:457:THR:HG23	1:d:458:GLN:HG3	1.96	0.47
1:e:312:LYS:O	1:e:418:PHE:N	2.44	0.47
1:g:224:SER:O	1:1:407:ARG:HD2	2.15	0.47
1:i:444:TYR:CZ	1:j:360:ALA:HB1	2.49	0.47
1:l:623:LYS:HB2	1:l:645:PRO:HG3	1.96	0.47
1:p:346:PHE:HB3	1:p:403:SER:HA	1.96	0.47
1:q:382:THR:HG22	1:q:383:LEU:N	2.29	0.47
1:q:623:LYS:HB2	1:q:645:PRO:HG3	1.96	0.47
1:s:254:ASN:C	1:s:256:HIS:N	2.72	0.47
1:w:610:GLN:HE21	1:x:627:THR:CG2	2.25	0.47
1:y:461:GLN:H	1:y:461:GLN:CD	2.22	0.47
1:1:254:ASN:C	1:1:256:HIS:N	2.72	0.47
1:6:578:GLN:OE1	1:6:597:ASN:ND2	2.47	0.47
1:7:328:GLN:NE2	1:7:333:LYS:HG3	2.23	0.47
1:8:457:THR:HG23	1:8:458:GLN:HG3	1.96	0.47
1:A:374:MET:HE2	1:E:664:PHE:HA	1.96	0.47
1:B:312:LYS:O	1:B:418:PHE:N	2.44	0.47
1:B:354:PRO:HB3	1:L:431:GLN:NE2	2.23	0.47
1:B:406:LEU:N	1:B:406:LEU:CD1	2.76	0.47
1:C:431:GLN:NE2	1:b:354:PRO:HB3	2.23	0.47
1:C:457:THR:HG23	1:C:458:GLN:HG3	1.96	0.47
1:D:254:ASN:ND2	1:D:377:GLN:NE2	2.62	0.47
1:D:461:GLN:H	1:D:461:GLN:CD	2.22	0.47
1:D:578:GLN:OE1	1:D:597:ASN:ND2	2.47	0.47
1:E:254:ASN:ND2	1:E:377:GLN:NE2	2.62	0.47
1:E:254:ASN:C	1:E:256:HIS:N	2.72	0.47
1:F:346:PHE:HB3	1:F:403:SER:HA	1.96	0.47
1:F:528:THR:H	1:F:565:GLU:HB2	1.80	0.47
1:F:623:LYS:HB2	1:F:645:PRO:HG3	1.96	0.47
1:G:224:SER:O	1:W:407:ARG:HD2	2.15	0.47
1:G:224:SER:C	1:W:407:ARG:HD2	2.40	0.47
1:G:254:ASN:C	1:G:256:HIS:N	2.72	0.47
1:G:578:GLN:OE1	1:G:597:ASN:ND2	2.47	0.47
1:H:254:ASN:ND2	1:H:377:GLN:NE2	2.62	0.47
1:H:374:MET:HE2	1:I:664:PHE:HA	1.96	0.47
1:H:429:HIS:CG	1:H:738:LEU:HD12	2.50	0.47
1:H:623:LYS:HB2	1:H:645:PRO:HG3	1.97	0.47
1:I:617:GLN:OE1	1:I:617:GLN:N	2.47	0.47
1:K:254:ASN:ND2	1:K:377:GLN:NE2	2.62	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:461:GLN:H	1:K:461:GLN:CD	2.22	0.47
1:K:578:GLN:OE1	1:K:597:ASN:ND2	2.47	0.47
1:L:457:THR:HG23	1:L:458:GLN:HG3	1.96	0.47
1:N:346:PHE:HB3	1:N:403:SER:HA	1.96	0.47
1:O:374:MET:HE2	1:P:664:PHE:HA	1.96	0.47
1:O:407:ARG:HD2	1:d:224:SER:O	2.15	0.47
1:O:532:ASP:OD1	1:m:385:ASN:ND2	2.47	0.47
1:P:254:ASN:ND2	1:P:377:GLN:NE2	2.62	0.47
1:P:374:MET:HE2	1:Q:664:PHE:HA	1.96	0.47
1:P:429:HIS:CG	1:P:738:LEU:HD12	2.50	0.47
1:P:617:GLN:OE1	1:P:617:GLN:N	2.47	0.47
1:R:254:ASN:C	1:R:256:HIS:N	2.72	0.47
1:S:224:SER:O	1:d:407:ARG:HD2	2.15	0.47
1:S:429:HIS:CG	1:S:738:LEU:HD12	2.50	0.47
1:T:461:GLN:H	1:T:461:GLN:CD	2.22	0.47
1:T:664:PHE:HA	1:i:374:MET:HE2	1.95	0.47
1:U:224:SER:O	1:e:407:ARG:HD2	2.15	0.47
1:U:528:THR:H	1:U:565:GLU:HB2	1.80	0.47
1:W:340:THR:HB	1:W:407:ARG:NH2	2.29	0.47
1:W:623:LYS:HB2	1:W:645:PRO:HG3	1.97	0.47
1:X:457:THR:HG23	1:X:458:GLN:HG3	1.96	0.47
1:X:623:LYS:HB2	1:X:645:PRO:HG3	1.96	0.47
1:Y:224:SER:O	1:4:407:ARG:HD2	2.15	0.47
1:Y:254:ASN:ND2	1:Y:377:GLN:NE2	2.62	0.47
1:Y:324:LYS:HE3	1:4:656:VAL:HG11	1.95	0.47
1:Y:406:LEU:N	1:Y:406:LEU:CD1	2.76	0.47
1:Z:385:ASN:ND2	1:3:532:ASP:OD1	2.47	0.47
1:Z:457:THR:HG23	1:Z:458:GLN:HG3	1.96	0.47
1:a:340:THR:HB	1:a:407:ARG:NH2	2.29	0.47
1:a:346:PHE:HB3	1:a:403:SER:HA	1.96	0.47
1:b:382:THR:HG22	1:b:383:LEU:N	2.28	0.47
1:c:532:ASP:OD1	1:o:385:ASN:ND2	2.47	0.47
1:c:617:GLN:OE1	1:c:617:GLN:N	2.47	0.47
1:d:254:ASN:ND2	1:d:377:GLN:NE2	2.62	0.47
1:f:360:ALA:HB1	1:g:444:TYR:CZ	2.49	0.47
1:f:429:HIS:CG	1:f:738:LEU:HD12	2.50	0.47
1:g:696:ARG:NE	1:g:698:ASN:OD1	2.36	0.47
1:i:254:ASN:ND2	1:i:377:GLN:NE2	2.62	0.47
1:j:374:MET:HE2	1:x:664:PHE:HA	1.96	0.47
1:j:532:ASP:OD1	1:k:385:ASN:ND2	2.47	0.47
1:l:457:THR:HG23	1:l:458:GLN:HG3	1.96	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:l:656:VAL:HG11	1:n:324:LYS:HE3	1.95	0.47
1:m:457:THR:HG23	1:m:458:GLN:HG3	1.96	0.47
1:n:656:VAL:HG11	1:r:324:LYS:HE3	1.95	0.47
1:o:374:MET:HE2	1:7:664:PHE:HA	1.96	0.47
1:p:254:ASN:C	1:p:256:HIS:N	2.72	0.47
1:p:578:GLN:OE1	1:p:597:ASN:ND2	2.47	0.47
1:q:307:TRP:O	1:q:426:SER:OG	2.18	0.47
1:q:346:PHE:HB3	1:q:403:SER:HA	1.96	0.47
1:q:457:THR:HG23	1:q:458:GLN:HG3	1.96	0.47
1:q:627:THR:CG2	1:s:610:GLN:HE21	2.25	0.47
1:r:656:VAL:HG11	1:x:324:LYS:HE3	1.95	0.47
1:s:254:ASN:ND2	1:s:377:GLN:NE2	2.62	0.47
1:s:623:LYS:HB2	1:s:645:PRO:HG3	1.96	0.47
1:t:254:ASN:C	1:t:256:HIS:N	2.72	0.47
1:t:429:HIS:CG	1:t:738:LEU:HD12	2.50	0.47
1:u:429:HIS:CG	1:u:738:LEU:HD12	2.50	0.47
1:u:578:GLN:OE1	1:u:597:ASN:ND2	2.47	0.47
1:v:374:MET:HE2	1:w:664:PHE:HA	1.96	0.47
1:v:528:THR:H	1:v:565:GLU:HB2	1.80	0.47
1:w:312:LYS:O	1:w:418:PHE:N	2.44	0.47
1:w:461:GLN:H	1:w:461:GLN:CD	2.22	0.47
1:x:457:THR:HG23	1:x:458:GLN:HG3	1.96	0.47
1:x:623:LYS:HB2	1:x:645:PRO:HG3	1.96	0.47
1:y:346:PHE:HB3	1:y:403:SER:HA	1.96	0.47
1:y:528:THR:H	1:y:565:GLU:HB2	1.80	0.47
1:z:457:THR:HG23	1:z:458:GLN:HG3	1.96	0.47
1:z:623:LYS:HB2	1:z:645:PRO:HG3	1.96	0.47
1:z:627:THR:CG2	1:2:610:GLN:HE21	2.25	0.47
1:1:461:GLN:H	1:1:461:GLN:CD	2.22	0.47
1:2:254:ASN:ND2	1:2:377:GLN:NE2	2.62	0.47
1:3:374:MET:HE2	1:8:664:PHE:HA	1.96	0.47
1:3:623:LYS:HB2	1:3:645:PRO:HG3	1.97	0.47
1:5:664:PHE:HA	1:8:374:MET:HE2	1.96	0.47
1:6:623:LYS:HB2	1:6:645:PRO:HG3	1.96	0.47
1:7:254:ASN:ND2	1:7:377:GLN:NE2	2.62	0.47
1:7:254:ASN:C	1:7:256:HIS:N	2.72	0.47
1:8:254:ASN:ND2	1:8:377:GLN:NE2	2.62	0.47
1:8:617:GLN:N	1:8:617:GLN:OE1	2.47	0.47
1:8:623:LYS:HB2	1:8:645:PRO:HG3	1.97	0.47
1:A:457:THR:HG23	1:A:458:GLN:HG3	1.96	0.47
1:B:382:THR:HG22	1:B:383:LEU:N	2.28	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:385:ASN:ND2	1:P:532:ASP:OD1	2.48	0.47
1:H:381:LEU:HD21	1:Y:439:PRO:HB3	1.97	0.47
1:H:664:PHE:HA	1:Z:374:MET:HE2	1.95	0.47
1:K:385:ASN:ND2	1:8:532:ASP:OD1	2.48	0.47
1:M:224:SER:O	1:N:407:ARG:HD2	2.15	0.47
1:M:385:ASN:ND2	1:b:532:ASP:OD1	2.47	0.47
1:N:340:THR:HB	1:N:407:ARG:NH2	2.29	0.47
1:O:623:LYS:HB2	1:O:645:PRO:HG3	1.97	0.47
1:R:429:HIS:CG	1:R:738:LEU:HD12	2.50	0.47
1:S:532:ASP:OD1	1:U:385:ASN:ND2	2.47	0.47
1:T:532:ASP:OD1	1:d:385:ASN:ND2	2.47	0.47
1:V:312:LYS:O	1:V:418:PHE:N	2.44	0.47
1:V:528:THR:H	1:V:565:GLU:HB2	1.80	0.47
1:Z:664:PHE:HA	1:a:374:MET:HE2	1.96	0.47
1:b:312:LYS:O	1:b:418:PHE:N	2.44	0.47
1:g:374:MET:HE2	1:1:664:PHE:HA	1.95	0.47
1:i:340:THR:HB	1:i:407:ARG:NH2	2.29	0.47
1:j:346:PHE:HB3	1:j:403:SER:HA	1.96	0.47
1:j:429:HIS:CG	1:j:738:LEU:HD12	2.50	0.47
1:m:346:PHE:HB3	1:m:403:SER:HA	1.96	0.47
1:m:439:PRO:HB3	1:n:381:LEU:HD21	1.97	0.47
1:o:457:THR:HG23	1:o:458:GLN:HG3	1.96	0.47
1:q:340:THR:HB	1:q:407:ARG:NH2	2.29	0.47
1:r:254:ASN:ND2	1:r:377:GLN:NE2	2.62	0.47
1:s:429:HIS:CG	1:s:738:LEU:HD12	2.50	0.47
1:u:532:ASP:OD1	1:v:385:ASN:ND2	2.47	0.47
1:v:664:PHE:HA	1:1:374:MET:HE2	1.96	0.47
1:1:623:LYS:HB2	1:1:645:PRO:HG3	1.96	0.47
1:2:406:LEU:N	1:2:406:LEU:CD1	2.76	0.47
1:4:312:LYS:O	1:4:418:PHE:N	2.44	0.47
1:4:346:PHE:HB3	1:4:403:SER:HA	1.96	0.47
1:5:429:HIS:CG	1:5:738:LEU:HD12	2.50	0.47
1:6:346:PHE:HB3	1:6:403:SER:HA	1.96	0.47
1:6:528:THR:H	1:6:565:GLU:HB2	1.80	0.47
1:8:429:HIS:CG	1:8:738:LEU:HD12	2.50	0.47
1:8:531:ASP:OD1	1:8:569:LYS:NZ	2.28	0.47
1:A:340:THR:HB	1:A:407:ARG:NH2	2.29	0.47
1:B:532:ASP:OD1	1:J:385:ASN:ND2	2.47	0.47
1:B:627:THR:CG2	1:L:610:GLN:HE21	2.25	0.47
1:C:532:ASP:OD1	1:b:385:ASN:ND2	2.47	0.47
1:G:416:TYR:OH	1:G:644:HIS:O	2.33	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:464:LEU:HD23	1:I:554:ASN:HB3	1.97	0.47
1:I:346:PHE:HB3	1:I:403:SER:HA	1.96	0.47
1:I:429:HIS:CG	1:I:738:LEU:HD12	2.50	0.47
1:L:406:LEU:N	1:L:406:LEU:CD1	2.76	0.47
1:P:328:GLN:NE2	1:P:333:LYS:HG3	2.23	0.47
1:Q:429:HIS:CG	1:Q:738:LEU:HD12	2.50	0.47
1:Q:461:GLN:H	1:Q:461:GLN:CD	2.22	0.47
1:T:385:ASN:ND2	1:l:532:ASP:OD1	2.47	0.47
1:W:429:HIS:CG	1:W:738:LEU:HD12	2.50	0.47
1:Y:254:ASN:C	1:Y:256:HIS:N	2.72	0.47
1:Z:346:PHE:HB3	1:Z:403:SER:HA	1.96	0.47
1:c:429:HIS:CG	1:c:738:LEU:HD12	2.50	0.47
1:d:406:LEU:N	1:d:406:LEU:CD1	2.76	0.47
1:e:429:HIS:CG	1:e:738:LEU:HD12	2.50	0.47
1:f:346:PHE:HB3	1:f:403:SER:HA	1.96	0.47
1:f:461:GLN:H	1:f:461:GLN:CD	2.22	0.47
1:g:340:THR:HB	1:g:407:ARG:NH2	2.29	0.47
1:j:224:SER:O	1:x:407:ARG:HD2	2.15	0.47
1:j:407:ARG:HD2	1:l:224:SER:O	2.15	0.47
1:j:444:TYR:CZ	1:k:360:ALA:HB1	2.49	0.47
1:j:457:THR:HG23	1:j:458:GLN:HG3	1.96	0.47
1:l:429:HIS:CG	1:l:738:LEU:HD12	2.50	0.47
1:l:617:GLN:OE1	1:l:617:GLN:N	2.47	0.47
1:m:429:HIS:CG	1:m:738:LEU:HD12	2.50	0.47
1:n:346:PHE:HB3	1:n:403:SER:HA	1.96	0.47
1:n:407:ARG:HD2	1:r:224:SER:O	2.15	0.47
1:q:406:LEU:N	1:q:406:LEU:CD1	2.76	0.47
1:q:528:THR:H	1:q:565:GLU:HB2	1.80	0.47
1:r:254:ASN:C	1:r:256:HIS:N	2.72	0.47
1:t:439:PRO:HB3	1:u:381:LEU:HD21	1.97	0.47
1:z:429:HIS:CG	1:z:738:LEU:HD12	2.50	0.47
1:1:429:HIS:CG	1:1:738:LEU:HD12	2.50	0.47
1:5:461:GLN:H	1:5:461:GLN:CD	2.22	0.47
1:A:407:ARG:HD2	1:B:224:SER:O	2.15	0.47
1:B:385:ASN:ND2	1:L:532:ASP:OD1	2.47	0.47
1:C:328:GLN:NE2	1:C:333:LYS:HG3	2.23	0.47
1:C:610:GLN:HE21	1:b:627:THR:CG2	2.25	0.47
1:C:623:LYS:HB2	1:C:645:PRO:HG3	1.97	0.47
1:E:328:GLN:NE2	1:E:333:LYS:HG3	2.23	0.47
1:F:617:GLN:N	1:F:617:GLN:OE1	2.47	0.47
1:H:528:THR:H	1:H:565:GLU:HB2	1.80	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:617:GLN:N	1:K:617:GLN:OE1	2.47	0.47
1:L:617:GLN:OE1	1:L:617:GLN:N	2.47	0.47
1:L:623:LYS:HB2	1:L:645:PRO:HG3	1.97	0.47
1:N:328:GLN:NE2	1:N:333:LYS:HG3	2.23	0.47
1:N:329:ASN:O	1:N:332:THR:OG1	2.21	0.47
1:Q:224:SER:O	1:S:407:ARG:HD2	2.15	0.47
1:T:381:LEU:HD21	1:l:439:PRO:HB3	1.97	0.47
1:T:429:HIS:CG	1:T:738:LEU:HD12	2.50	0.47
1:T:528:THR:H	1:T:565:GLU:HB2	1.80	0.47
1:V:254:ASN:ND2	1:V:377:GLN:NE2	2.62	0.47
1:V:346:PHE:HB3	1:V:403:SER:HA	1.96	0.47
1:V:382:THR:HG22	1:V:383:LEU:N	2.29	0.47
1:W:384:ASN:ND2	1:W:386:GLY:O	2.49	0.47
1:W:406:LEU:N	1:W:406:LEU:CD1	2.76	0.47
1:W:528:THR:H	1:W:565:GLU:HB2	1.80	0.47
1:Y:346:PHE:HB3	1:Y:403:SER:HA	1.96	0.47
1:Y:461:GLN:H	1:Y:461:GLN:CD	2.22	0.47
1:Y:508:ALA:HB1	1:Y:519:LEU:HD13	1.97	0.47
1:Z:429:HIS:CG	1:Z:738:LEU:HD12	2.50	0.47
1:Z:617:GLN:OE1	1:Z:617:GLN:N	2.47	0.47
1:c:346:PHE:HB3	1:c:403:SER:HA	1.96	0.47
1:c:354:PRO:HB3	1:p:431:GLN:NE2	2.23	0.47
1:d:384:ASN:ND2	1:d:386:GLY:O	2.48	0.47
1:f:457:THR:HG23	1:f:458:GLN:HG3	1.96	0.47
1:f:532:ASP:OD1	1:h:385:ASN:ND2	2.47	0.47
1:g:312:LYS:O	1:g:418:PHE:N	2.44	0.47
1:j:461:GLN:H	1:j:461:GLN:CD	2.22	0.47
1:q:429:HIS:CG	1:q:738:LEU:HD12	2.50	0.47
1:r:346:PHE:HB3	1:r:403:SER:HA	1.96	0.47
1:r:406:LEU:N	1:r:406:LEU:CD1	2.76	0.47
1:r:439:PRO:HB3	1:s:381:LEU:HD21	1.97	0.47
1:r:461:GLN:H	1:r:461:GLN:CD	2.22	0.47
1:r:623:LYS:HB2	1:r:645:PRO:HG3	1.96	0.47
1:s:528:THR:H	1:s:565:GLU:HB2	1.80	0.47
1:v:329:ASN:O	1:v:332:THR:OG1	2.21	0.47
1:w:429:HIS:CG	1:w:738:LEU:HD12	2.50	0.47
1:y:254:ASN:ND2	1:y:377:GLN:NE2	2.62	0.47
1:z:384:ASN:ND2	1:z:386:GLY:O	2.49	0.47
1:A:623:LYS:HB2	1:A:645:PRO:HG3	1.96	0.46
1:C:406:LEU:N	1:C:406:LEU:CD1	2.76	0.46
1:C:617:GLN:OE1	1:C:617:GLN:N	2.47	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:617:GLN:OE1	1:D:617:GLN:N	2.47	0.46
1:G:528:THR:H	1:G:565:GLU:HB2	1.80	0.46
1:G:532:ASP:OD1	1:I:385:ASN:ND2	2.47	0.46
1:I:224:SER:O	1:J:407:ARG:HD2	2.15	0.46
1:I:406:LEU:N	1:I:406:LEU:CD1	2.76	0.46
1:J:384:ASN:ND2	1:J:386:GLY:O	2.49	0.46
1:J:429:HIS:CG	1:J:738:LEU:HD12	2.50	0.46
1:K:340:THR:HB	1:K:407:ARG:NH2	2.29	0.46
1:K:381:LEU:HD21	1:8:439:PRO:HB3	1.97	0.46
1:K:384:ASN:ND2	1:K:386:GLY:O	2.49	0.46
1:M:384:ASN:ND2	1:M:386:GLY:O	2.49	0.46
1:M:429:HIS:CG	1:M:738:LEU:HD12	2.50	0.46
1:N:429:HIS:CG	1:N:738:LEU:HD12	2.50	0.46
1:R:384:ASN:ND2	1:R:386:GLY:O	2.49	0.46
1:S:457:THR:HG23	1:S:458:GLN:HG3	1.96	0.46
1:T:340:THR:HB	1:T:407:ARG:NH2	2.29	0.46
1:T:407:ARG:HD2	1:i:224:SER:O	2.16	0.46
1:T:623:LYS:HB2	1:T:645:PRO:HG3	1.97	0.46
1:U:617:GLN:OE1	1:U:617:GLN:N	2.47	0.46
1:V:508:ALA:HB1	1:V:519:LEU:HD13	1.98	0.46
1:X:664:PHE:HA	1:f:374:MET:HE2	1.96	0.46
1:Y:623:LYS:HB2	1:Y:645:PRO:HG3	1.97	0.46
1:e:254:ASN:C	1:e:256:HIS:N	2.72	0.46
1:f:384:ASN:ND2	1:f:386:GLY:O	2.49	0.46
1:h:457:THR:HG23	1:h:458:GLN:HG3	1.96	0.46
1:i:312:LYS:O	1:i:418:PHE:N	2.44	0.46
1:i:381:LEU:HD21	1:k:439:PRO:HB3	1.97	0.46
1:i:528:THR:H	1:i:565:GLU:HB2	1.80	0.46
1:j:384:ASN:ND2	1:j:386:GLY:O	2.49	0.46
1:j:617:GLN:OE1	1:j:617:GLN:N	2.47	0.46
1:k:457:THR:HG23	1:k:458:GLN:HG3	1.96	0.46
1:k:528:THR:H	1:k:565:GLU:HB2	1.80	0.46
1:l:384:ASN:ND2	1:l:386:GLY:O	2.49	0.46
1:n:254:ASN:C	1:n:256:HIS:N	2.72	0.46
1:n:312:LYS:O	1:n:418:PHE:N	2.44	0.46
1:n:429:HIS:CG	1:n:738:LEU:HD12	2.50	0.46
1:o:340:THR:HB	1:o:407:ARG:NH2	2.29	0.46
1:p:664:PHE:HA	1:6:374:MET:HE2	1.97	0.46
1:q:384:ASN:ND2	1:q:386:GLY:O	2.49	0.46
1:t:384:ASN:ND2	1:t:386:GLY:O	2.49	0.46
1:t:528:THR:H	1:t:565:GLU:HB2	1.80	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:u:457:THR:HG23	1:u:458:GLN:HG3	1.96	0.46
1:v:254:ASN:ND2	1:v:377:GLN:NE2	2.62	0.46
1:v:429:HIS:CG	1:v:738:LEU:HD12	2.50	0.46
1:y:312:LYS:O	1:y:418:PHE:N	2.44	0.46
1:y:508:ALA:HB1	1:y:519:LEU:HD13	1.97	0.46
1:y:617:GLN:N	1:y:617:GLN:OE1	2.47	0.46
1:1:528:THR:H	1:1:565:GLU:HB2	1.80	0.46
1:4:528:THR:H	1:4:565:GLU:HB2	1.80	0.46
1:6:617:GLN:N	1:6:617:GLN:OE1	2.47	0.46
1:8:328:GLN:NE2	1:8:333:LYS:HG3	2.23	0.46
1:B:381:LEU:HD21	1:L:439:PRO:HB3	1.97	0.46
1:C:439:PRO:HB3	1:b:381:LEU:HD21	1.97	0.46
1:D:384:ASN:ND2	1:D:386:GLY:O	2.49	0.46
1:J:224:SER:O	1:a:407:ARG:HD2	2.16	0.46
1:M:407:ARG:HD2	1:c:224:SER:O	2.16	0.46
1:O:429:HIS:CG	1:O:738:LEU:HD12	2.50	0.46
1:O:457:THR:HG23	1:O:458:GLN:HG3	1.96	0.46
1:P:224:SER:O	1:Q:407:ARG:HD2	2.15	0.46
1:P:384:ASN:ND2	1:P:386:GLY:O	2.49	0.46
1:Q:384:ASN:ND2	1:Q:386:GLY:O	2.49	0.46
1:R:627:THR:CG2	1:U:610:GLN:HE21	2.25	0.46
1:U:254:ASN:ND2	1:U:377:GLN:NE2	2.62	0.46
1:U:429:HIS:CG	1:U:738:LEU:HD12	2.50	0.46
1:V:617:GLN:N	1:V:617:GLN:OE1	2.47	0.46
1:X:224:SER:O	1:Y:407:ARG:HD2	2.15	0.46
1:X:324:LYS:HE3	1:Y:656:VAL:HG11	1.95	0.46
1:X:407:ARG:HD2	1:f:224:SER:O	2.15	0.46
1:a:429:HIS:CG	1:a:738:LEU:HD12	2.50	0.46
1:b:429:HIS:CG	1:b:738:LEU:HD12	2.50	0.46
1:c:406:LEU:N	1:c:406:LEU:CD1	2.76	0.46
1:c:457:THR:HG23	1:c:458:GLN:HG3	1.96	0.46
1:c:623:LYS:HB2	1:c:645:PRO:HG3	1.96	0.46
1:d:623:LYS:HB2	1:d:645:PRO:HG3	1.97	0.46
1:f:617:GLN:N	1:f:617:GLN:OE1	2.47	0.46
1:f:623:LYS:HB2	1:f:645:PRO:HG3	1.97	0.46
1:g:528:THR:H	1:g:565:GLU:HB2	1.80	0.46
1:h:528:THR:H	1:h:565:GLU:HB2	1.80	0.46
1:i:429:HIS:CG	1:i:738:LEU:HD12	2.50	0.46
1:j:623:LYS:HB2	1:j:645:PRO:HG3	1.96	0.46
1:k:429:HIS:CG	1:k:738:LEU:HD12	2.50	0.46
1:l:508:ALA:HB1	1:l:519:LEU:HD13	1.97	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:n:528:THR:H	1:n:565:GLU:HB2	1.80	0.46
1:p:340:THR:HB	1:p:407:ARG:NH2	2.29	0.46
1:p:528:THR:H	1:p:565:GLU:HB2	1.80	0.46
1:q:439:PRO:HB3	1:r:381:LEU:HD21	1.97	0.46
1:r:508:ALA:HB1	1:r:519:LEU:HD13	1.97	0.46
1:u:508:ALA:HB1	1:u:519:LEU:HD13	1.97	0.46
1:v:384:ASN:ND2	1:v:386:GLY:O	2.48	0.46
1:v:617:GLN:N	1:v:617:GLN:OE1	2.47	0.46
1:w:381:LEU:HD21	1:y:439:PRO:HB3	1.97	0.46
1:y:382:THR:HG22	1:y:383:LEU:N	2.29	0.46
1:z:617:GLN:OE1	1:z:617:GLN:N	2.47	0.46
1:2:224:SER:C	1:3:407:ARG:HD2	2.41	0.46
1:2:384:ASN:ND2	1:2:386:GLY:O	2.49	0.46
1:2:623:LYS:HB2	1:2:645:PRO:HG3	1.97	0.46
1:3:528:THR:H	1:3:565:GLU:HB2	1.80	0.46
1:4:429:HIS:CG	1:4:738:LEU:HD12	2.50	0.46
1:5:508:ALA:HB1	1:5:519:LEU:HD13	1.97	0.46
1:8:384:ASN:ND2	1:8:386:GLY:O	2.49	0.46
1:B:429:HIS:CG	1:B:738:LEU:HD12	2.50	0.46
1:D:407:ARG:HD2	1:E:224:SER:O	2.15	0.46
1:E:429:HIS:CG	1:E:738:LEU:HD12	2.50	0.46
1:F:457:THR:HG23	1:F:458:GLN:HG3	1.96	0.46
1:H:384:ASN:ND2	1:H:386:GLY:O	2.49	0.46
1:H:610:GLN:HE21	1:W:627:THR:CG2	2.25	0.46
1:I:623:LYS:HB2	1:I:645:PRO:HG3	1.96	0.46
1:M:623:LYS:HB2	1:M:645:PRO:HG3	1.96	0.46
1:O:528:THR:H	1:O:565:GLU:HB2	1.80	0.46
1:P:254:ASN:C	1:P:256:HIS:N	2.72	0.46
1:R:528:THR:H	1:R:565:GLU:HB2	1.80	0.46
1:T:307:TRP:O	1:T:426:SER:OG	2.18	0.46
1:U:384:ASN:ND2	1:U:386:GLY:O	2.49	0.46
1:U:623:LYS:HB2	1:U:645:PRO:HG3	1.96	0.46
1:Y:384:ASN:ND2	1:Y:386:GLY:O	2.49	0.46
1:Z:381:LEU:HD21	1:3:439:PRO:HB3	1.97	0.46
1:Z:425:SER:OG	1:4:628:ASP:OD2	2.29	0.46
1:a:328:GLN:NE2	1:a:333:LYS:HG3	2.23	0.46
1:b:508:ALA:HB1	1:b:519:LEU:HD13	1.98	0.46
1:g:429:HIS:CG	1:g:738:LEU:HD12	2.50	0.46
1:h:429:HIS:CG	1:h:738:LEU:HD12	2.50	0.46
1:j:508:ALA:HB1	1:j:519:LEU:HD13	1.98	0.46
1:o:429:HIS:CG	1:o:738:LEU:HD12	2.50	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:r:340:THR:HB	1:r:407:ARG:NH2	2.29	0.46
1:r:384:ASN:ND2	1:r:386:GLY:O	2.48	0.46
1:r:431:GLN:NE2	1:s:354:PRO:HB3	2.24	0.46
1:s:384:ASN:ND2	1:s:386:GLY:O	2.49	0.46
1:v:457:THR:HG23	1:v:458:GLN:HG3	1.96	0.46
1:w:254:ASN:C	1:w:256:HIS:N	2.72	0.46
1:x:416:TYR:OH	1:x:644:HIS:O	2.33	0.46
1:y:340:THR:HB	1:y:407:ARG:NH2	2.29	0.46
1:z:439:PRO:HB3	1:1:381:LEU:HD21	1.98	0.46
1:z:508:ALA:HB1	1:z:519:LEU:HD13	1.98	0.46
1:z:532:ASP:OD1	1:1:385:ASN:ND2	2.47	0.46
1:1:307:TRP:O	1:1:426:SER:OG	2.18	0.46
1:1:340:THR:HB	1:1:407:ARG:NH2	2.29	0.46
1:3:429:HIS:CG	1:3:738:LEU:HD12	2.50	0.46
1:3:457:THR:HG23	1:3:458:GLN:HG3	1.96	0.46
1:4:254:ASN:C	1:4:256:HIS:N	2.72	0.46
1:4:384:ASN:ND2	1:4:386:GLY:O	2.49	0.46
1:5:384:ASN:ND2	1:5:386:GLY:O	2.49	0.46
1:6:457:THR:HG23	1:6:458:GLN:HG3	1.96	0.46
1:7:429:HIS:CG	1:7:738:LEU:HD12	2.50	0.46
1:8:254:ASN:C	1:8:256:HIS:N	2.72	0.46
1:A:439:PRO:HB3	1:G:381:LEU:HD21	1.98	0.46
1:A:583:ALA:O	1:G:487:ARG:HD2	2.16	0.46
1:B:508:ALA:HB1	1:B:519:LEU:HD13	1.98	0.46
1:D:340:THR:HB	1:D:407:ARG:NH2	2.29	0.46
1:D:381:LEU:HD21	1:P:439:PRO:HB3	1.98	0.46
1:G:429:HIS:CG	1:G:738:LEU:HD12	2.50	0.46
1:I:457:THR:HG23	1:I:458:GLN:HG3	1.96	0.46
1:J:254:ASN:C	1:J:256:HIS:N	2.72	0.46
1:J:439:PRO:HB3	1:L:381:LEU:HD21	1.98	0.46
1:J:623:LYS:HB2	1:J:645:PRO:HG3	1.96	0.46
1:L:429:HIS:CG	1:L:738:LEU:HD12	2.50	0.46
1:M:328:GLN:NE2	1:M:333:LYS:HG3	2.23	0.46
1:M:374:MET:HE2	1:N:664:PHE:HA	1.96	0.46
1:M:508:ALA:HB1	1:M:519:LEU:HD13	1.97	0.46
1:P:416:TYR:OH	1:P:644:HIS:O	2.33	0.46
1:Q:508:ALA:HB1	1:Q:519:LEU:HD13	1.98	0.46
1:R:439:PRO:HB3	1:S:381:LEU:HD21	1.97	0.46
1:S:224:SER:C	1:d:407:ARG:HD2	2.41	0.46
1:S:508:ALA:HB1	1:S:519:LEU:HD13	1.97	0.46
1:S:610:GLN:HE21	1:U:627:THR:CG2	2.25	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:V:340:THR:HB	1:V:407:ARG:NH2	2.29	0.46
1:W:439:PRO:HB3	1:Y:381:LEU:HD21	1.98	0.46
1:W:532:ASP:OD1	1:Y:385:ASN:ND2	2.48	0.46
1:X:297:ARG:O	1:X:300:GLN:N	2.48	0.46
1:X:416:TYR:OH	1:X:644:HIS:O	2.33	0.46
1:Y:340:THR:HB	1:Y:407:ARG:NH2	2.29	0.46
1:Y:429:HIS:CG	1:Y:738:LEU:HD12	2.50	0.46
1:a:329:ASN:O	1:a:332:THR:OG1	2.21	0.46
1:c:439:PRO:HB3	1:o:381:LEU:HD21	1.97	0.46
1:d:340:THR:HB	1:d:407:ARG:NH2	2.29	0.46
1:e:508:ALA:HB1	1:e:519:LEU:HD13	1.98	0.46
1:f:508:ALA:HB1	1:f:519:LEU:HD13	1.98	0.46
1:g:508:ALA:HB1	1:g:519:LEU:HD13	1.97	0.46
1:h:617:GLN:OE1	1:h:617:GLN:N	2.47	0.46
1:i:385:ASN:ND2	1:k:532:ASP:OD1	2.47	0.46
1:k:623:LYS:HB2	1:k:645:PRO:HG3	1.96	0.46
1:n:384:ASN:ND2	1:n:386:GLY:O	2.49	0.46
1:o:623:LYS:HB2	1:o:645:PRO:HG3	1.97	0.46
1:p:429:HIS:CG	1:p:738:LEU:HD12	2.50	0.46
1:q:425:SER:OG	1:r:628:ASP:OD2	2.29	0.46
1:q:532:ASP:OD1	1:r:385:ASN:ND2	2.47	0.46
1:r:416:TYR:OH	1:r:644:HIS:O	2.33	0.46
1:r:429:HIS:CG	1:r:738:LEU:HD12	2.50	0.46
1:v:224:SER:O	1:w:407:ARG:HD2	2.16	0.46
1:v:623:LYS:HB2	1:v:645:PRO:HG3	1.97	0.46
1:w:457:THR:HG23	1:w:458:GLN:HG3	1.96	0.46
1:w:508:ALA:HB1	1:w:519:LEU:HD13	1.97	0.46
1:y:429:HIS:CG	1:y:738:LEU:HD12	2.50	0.46
1:5:617:GLN:OE1	1:5:617:GLN:N	2.47	0.46
1:5:627:THR:CG2	1:7:610:GLN:HE21	2.25	0.46
1:8:416:TYR:OH	1:8:644:HIS:O	2.33	0.46
1:A:381:LEU:HD21	1:I:439:PRO:HB3	1.98	0.46
1:A:429:HIS:CG	1:A:738:LEU:HD12	2.50	0.46
1:B:528:THR:H	1:B:565:GLU:HB2	1.80	0.46
1:C:381:LEU:HD21	1:M:439:PRO:HB3	1.98	0.46
1:C:429:HIS:CG	1:C:738:LEU:HD12	2.50	0.46
1:F:354:PRO:HB3	1:Q:431:GLN:NE2	2.23	0.46
1:G:623:LYS:HB2	1:G:645:PRO:HG3	1.96	0.46
1:H:354:PRO:HB3	1:Y:431:GLN:NE2	2.24	0.46
1:H:416:TYR:OH	1:H:644:HIS:O	2.33	0.46
1:J:374:MET:HE2	1:a:664:PHE:HA	1.96	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:508:ALA:HB1	1:J:519:LEU:HD13	1.97	0.46
1:K:224:SER:O	1:L:407:ARG:HD2	2.15	0.46
1:M:254:ASN:C	1:M:256:HIS:N	2.72	0.46
1:M:617:GLN:OE1	1:M:617:GLN:N	2.47	0.46
1:N:224:SER:O	1:m:407:ARG:HD2	2.15	0.46
1:N:461:GLN:H	1:N:461:GLN:CD	2.22	0.46
1:Q:617:GLN:OE1	1:Q:617:GLN:N	2.47	0.46
1:R:385:ASN:ND2	1:U:532:ASP:OD1	2.48	0.46
1:R:623:LYS:HB2	1:R:645:PRO:HG3	1.97	0.46
1:S:431:GLN:NE2	1:U:354:PRO:HB3	2.23	0.46
1:T:439:PRO:HB3	1:d:381:LEU:HD21	1.98	0.46
1:U:457:THR:HG23	1:U:458:GLN:HG3	1.96	0.46
1:V:429:HIS:CG	1:V:738:LEU:HD12	2.50	0.46
1:V:439:PRO:HB3	1:e:381:LEU:HD21	1.98	0.46
1:Y:416:TYR:OH	1:Y:644:HIS:O	2.33	0.46
1:Z:384:ASN:ND2	1:Z:386:GLY:O	2.49	0.46
1:Z:532:ASP:OD1	1:4:385:ASN:ND2	2.47	0.46
1:b:224:SER:O	1:o:407:ARG:HD2	2.15	0.46
1:b:528:THR:H	1:b:565:GLU:HB2	1.80	0.46
1:c:384:ASN:ND2	1:c:386:GLY:O	2.49	0.46
1:c:416:TYR:OH	1:c:644:HIS:O	2.33	0.46
1:d:528:THR:H	1:d:565:GLU:HB2	1.80	0.46
1:e:457:THR:HG23	1:e:458:GLN:HG3	1.96	0.46
1:f:439:PRO:HB3	1:h:381:LEU:HD21	1.98	0.46
1:g:384:ASN:ND2	1:g:386:GLY:O	2.49	0.46
1:g:385:ASN:ND2	1:h:532:ASP:OD1	2.47	0.46
1:i:384:ASN:ND2	1:i:386:GLY:O	2.49	0.46
1:i:508:ALA:HB1	1:i:519:LEU:HD13	1.97	0.46
1:m:508:ALA:HB1	1:m:519:LEU:HD13	1.98	0.46
1:m:532:ASP:OD1	1:n:385:ASN:ND2	2.47	0.46
1:m:617:GLN:OE1	1:m:617:GLN:N	2.47	0.46
1:o:224:SER:O	1:7:407:ARG:HD2	2.15	0.46
1:r:407:ARG:HD2	1:x:224:SER:O	2.16	0.46
1:s:416:TYR:OH	1:s:644:HIS:O	2.33	0.46
1:t:385:ASN:ND2	1:v:532:ASP:OD1	2.48	0.46
1:t:532:ASP:OD1	1:u:385:ASN:ND2	2.47	0.46
1:t:623:LYS:HB2	1:t:645:PRO:HG3	1.97	0.46
1:t:627:THR:CG2	1:v:610:GLN:HE21	2.25	0.46
1:u:312:LYS:O	1:u:418:PHE:N	2.44	0.46
1:x:297:ARG:O	1:x:300:GLN:N	2.48	0.46
1:y:254:ASN:C	1:y:256:HIS:N	2.72	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:2:224:SER:O	1:3:407:ARG:HD2	2.15	0.46
1:2:340:THR:HB	1:2:407:ARG:NH2	2.29	0.46
1:2:528:THR:H	1:2:565:GLU:HB2	1.80	0.46
1:5:425:SER:OG	1:6:628:ASP:OD2	2.30	0.46
1:8:312:LYS:O	1:8:418:PHE:N	2.44	0.46
1:A:407:ARG:HD2	1:B:224:SER:C	2.41	0.46
1:E:461:GLN:H	1:E:461:GLN:CD	2.22	0.46
1:H:439:PRO:HB3	1:W:381:LEU:HD21	1.98	0.46
1:I:528:THR:H	1:I:565:GLU:HB2	1.80	0.46
1:J:617:GLN:OE1	1:J:617:GLN:N	2.47	0.46
1:K:407:ARG:HD2	1:7:224:SER:O	2.15	0.46
1:K:429:HIS:CG	1:K:738:LEU:HD12	2.50	0.46
1:N:457:THR:HG23	1:N:458:GLN:HG3	1.96	0.46
1:O:439:PRO:HB3	1:m:381:LEU:HD21	1.98	0.46
1:O:617:GLN:OE1	1:O:617:GLN:N	2.47	0.46
1:S:312:LYS:O	1:S:418:PHE:N	2.44	0.46
1:S:340:THR:HB	1:S:407:ARG:NH2	2.29	0.46
1:V:384:ASN:ND2	1:V:386:GLY:O	2.49	0.46
1:W:297:ARG:O	1:W:300:GLN:N	2.48	0.46
1:W:508:ALA:HB1	1:W:519:LEU:HD13	1.97	0.46
1:X:307:TRP:NE1	1:X:692:GLU:HG2	2.31	0.46
1:X:381:LEU:HD21	1:e:439:PRO:HB3	1.98	0.46
1:Z:508:ALA:HB1	1:Z:519:LEU:HD13	1.98	0.46
1:c:381:LEU:HD21	1:p:439:PRO:HB3	1.97	0.46
1:c:385:ASN:ND2	1:p:532:ASP:OD1	2.48	0.46
1:e:384:ASN:ND2	1:e:386:GLY:O	2.49	0.46
1:e:617:GLN:OE1	1:e:617:GLN:N	2.47	0.46
1:f:307:TRP:NE1	1:f:692:GLU:HG2	2.31	0.46
1:g:381:LEU:HD21	1:h:439:PRO:HB3	1.98	0.46
1:h:623:LYS:HB2	1:h:645:PRO:HG3	1.96	0.46
1:j:439:PRO:HB3	1:k:381:LEU:HD21	1.98	0.46
1:l:528:THR:H	1:l:565:GLU:HB2	1.80	0.46
1:m:224:SER:C	1:s:407:ARG:HD2	2.41	0.46
1:m:384:ASN:ND2	1:m:386:GLY:O	2.49	0.46
1:p:224:SER:O	1:q:407:ARG:HD2	2.16	0.46
1:p:623:LYS:HB2	1:p:645:PRO:HG3	1.97	0.46
1:q:381:LEU:HD21	1:s:439:PRO:HB3	1.98	0.46
1:u:407:ARG:HD2	1:5:224:SER:O	2.16	0.46
1:u:610:GLN:HE21	1:v:627:THR:CG2	2.25	0.46
1:w:384:ASN:ND2	1:w:386:GLY:O	2.49	0.46
1:x:254:ASN:C	1:x:256:HIS:N	2.72	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:x:307:TRP:NE1	1:x:692:GLU:HG2	2.31	0.46
1:5:381:LEU:HD21	1:7:439:PRO:HB3	1.97	0.46
1:5:407:ARG:HD2	1:8:224:SER:O	2.16	0.46
1:7:461:GLN:H	1:7:461:GLN:CD	2.22	0.46
1:A:508:ALA:HB1	1:A:519:LEU:HD13	1.97	0.46
1:C:407:ARG:HD2	1:D:224:SER:O	2.15	0.46
1:D:429:HIS:CG	1:D:738:LEU:HD12	2.50	0.46
1:D:610:GLN:HE21	1:N:627:THR:CG2	2.25	0.46
1:D:623:LYS:HB2	1:D:645:PRO:HG3	1.96	0.46
1:E:307:TRP:NE1	1:E:692:GLU:HG2	2.31	0.46
1:F:628:ASP:OD2	1:Q:425:SER:OG	2.30	0.46
1:I:384:ASN:ND2	1:I:386:GLY:O	2.49	0.46
1:I:416:TYR:OH	1:I:644:HIS:O	2.33	0.46
1:N:528:THR:H	1:N:565:GLU:HB2	1.80	0.46
1:P:312:LYS:O	1:P:418:PHE:N	2.44	0.46
1:P:508:ALA:HB1	1:P:519:LEU:HD13	1.97	0.46
1:R:532:ASP:OD1	1:S:385:ASN:ND2	2.48	0.46
1:V:254:ASN:C	1:V:256:HIS:N	2.72	0.46
1:a:457:THR:HG23	1:a:458:GLN:HG3	1.96	0.46
1:a:461:GLN:H	1:a:461:GLN:CD	2.22	0.46
1:f:385:ASN:ND2	1:g:532:ASP:OD1	2.47	0.46
1:f:407:ARG:HD2	1:z:224:SER:O	2.16	0.46
1:g:328:GLN:NE2	1:g:333:LYS:HG3	2.23	0.46
1:g:407:ARG:HD2	1:k:224:SER:O	2.15	0.46
1:j:307:TRP:NE1	1:j:692:GLU:HG2	2.31	0.46
1:j:702:GLN:H	1:w:704:THR:HG1	1.57	0.46
1:k:617:GLN:OE1	1:k:617:GLN:N	2.47	0.46
1:m:224:SER:O	1:s:407:ARG:HD2	2.15	0.46
1:q:508:ALA:HB1	1:q:519:LEU:HD13	1.97	0.46
1:t:224:SER:O	1:6:407:ARG:HD2	2.15	0.46
1:t:610:GLN:HE21	1:u:627:THR:CG2	2.25	0.46
1:u:340:THR:HB	1:u:407:ARG:NH2	2.29	0.46
1:v:407:ARG:HD2	1:1:224:SER:O	2.16	0.46
1:w:439:PRO:HB3	1:x:381:LEU:HD21	1.98	0.46
1:y:384:ASN:ND2	1:y:386:GLY:O	2.49	0.46
1:z:528:THR:H	1:z:565:GLU:HB2	1.80	0.46
1:5:431:GLN:NE2	1:6:354:PRO:HB3	2.24	0.46
1:7:307:TRP:NE1	1:7:692:GLU:HG2	2.31	0.46
1:A:384:ASN:ND2	1:A:386:GLY:O	2.49	0.46
1:B:384:ASN:ND2	1:B:386:GLY:O	2.49	0.46
1:D:528:THR:H	1:D:565:GLU:HB2	1.80	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:384:ASN:ND2	1:F:386:GLY:O	2.49	0.46
1:G:297:ARG:O	1:G:300:GLN:N	2.48	0.46
1:G:307:TRP:NE1	1:G:692:GLU:HG2	2.31	0.46
1:H:407:ARG:HD2	1:Z:224:SER:C	2.41	0.46
1:J:406:LEU:N	1:J:406:LEU:CD1	2.76	0.46
1:M:224:SER:C	1:N:407:ARG:HD2	2.41	0.46
1:P:528:THR:H	1:P:565:GLU:HB2	1.80	0.46
1:R:610:GLN:HE21	1:S:627:THR:CG2	2.25	0.46
1:S:254:ASN:C	1:S:256:HIS:N	2.72	0.46
1:S:384:ASN:ND2	1:S:386:GLY:O	2.49	0.46
1:T:224:SER:O	1:U:407:ARG:HD2	2.16	0.46
1:V:307:TRP:NE1	1:V:692:GLU:HG2	2.31	0.46
1:a:312:LYS:O	1:a:418:PHE:N	2.44	0.46
1:a:528:THR:H	1:a:565:GLU:HB2	1.80	0.46
1:c:528:THR:H	1:c:565:GLU:HB2	1.80	0.46
1:d:416:TYR:OH	1:d:644:HIS:O	2.33	0.46
1:d:429:HIS:CG	1:d:738:LEU:HD12	2.50	0.46
1:g:307:TRP:NE1	1:g:692:GLU:HG2	2.31	0.46
1:g:416:TYR:OH	1:g:644:HIS:O	2.33	0.46
1:g:617:GLN:OE1	1:g:617:GLN:N	2.47	0.46
1:h:297:ARG:O	1:h:300:GLN:N	2.48	0.46
1:h:307:TRP:NE1	1:h:692:GLU:HG2	2.31	0.46
1:h:384:ASN:ND2	1:h:386:GLY:O	2.49	0.46
1:i:307:TRP:NE1	1:i:692:GLU:HG2	2.31	0.46
1:i:416:TYR:OH	1:i:644:HIS:O	2.33	0.46
1:j:407:ARG:HD2	1:l:224:SER:C	2.41	0.46
1:k:297:ARG:O	1:k:300:GLN:N	2.48	0.46
1:k:307:TRP:NE1	1:k:692:GLU:HG2	2.31	0.46
1:k:384:ASN:ND2	1:k:386:GLY:O	2.49	0.46
1:o:384:ASN:ND2	1:o:386:GLY:O	2.49	0.46
1:o:416:TYR:OH	1:o:644:HIS:O	2.33	0.46
1:o:439:PRO:HB3	1:p:381:LEU:HD21	1.98	0.46
1:o:508:ALA:HB1	1:o:519:LEU:HD13	1.97	0.46
1:p:307:TRP:NE1	1:p:692:GLU:HG2	2.31	0.46
1:q:297:ARG:O	1:q:300:GLN:N	2.48	0.46
1:s:461:GLN:H	1:s:461:GLN:CD	2.22	0.46
1:u:384:ASN:ND2	1:u:386:GLY:O	2.49	0.46
1:2:429:HIS:CG	1:2:738:LEU:HD12	2.50	0.46
1:3:617:GLN:N	1:3:617:GLN:OE1	2.47	0.46
1:4:508:ALA:HB1	1:4:519:LEU:HD13	1.97	0.46
1:8:508:ALA:HB1	1:8:519:LEU:HD13	1.98	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:8:528:THR:H	1:8:565:GLU:HB2	1.80	0.46
1:A:416:TYR:OH	1:A:644:HIS:O	2.33	0.46
1:C:528:THR:H	1:C:565:GLU:HB2	1.80	0.46
1:E:528:THR:H	1:E:565:GLU:HB2	1.80	0.46
1:F:374:MET:HE2	1:G:664:PHE:HA	1.98	0.46
1:G:583:ALA:O	1:I:487:ARG:HD2	2.16	0.46
1:H:407:ARG:HD2	1:Z:224:SER:O	2.15	0.46
1:J:328:GLN:NE2	1:J:333:LYS:HG3	2.23	0.46
1:K:623:LYS:HB2	1:K:645:PRO:HG3	1.97	0.46
1:L:307:TRP:NE1	1:L:692:GLU:HG2	2.31	0.46
1:M:406:LEU:N	1:M:406:LEU:CD1	2.76	0.46
1:N:224:SER:C	1:m:407:ARG:HD2	2.41	0.46
1:N:508:ALA:HB1	1:N:519:LEU:HD13	1.98	0.46
1:O:508:ALA:HB1	1:O:519:LEU:HD13	1.98	0.46
1:R:238:ASP:OD1	1:R:239:ARG:N	2.49	0.46
1:R:461:GLN:H	1:R:461:GLN:CD	2.22	0.46
1:S:307:TRP:NE1	1:S:692:GLU:HG2	2.31	0.46
1:U:238:ASP:OD1	1:U:239:ARG:N	2.49	0.46
1:X:254:ASN:C	1:X:256:HIS:N	2.72	0.46
1:Y:307:TRP:NE1	1:Y:692:GLU:HG2	2.31	0.46
1:Y:328:GLN:NE2	1:Y:333:LYS:HG3	2.23	0.46
1:b:384:ASN:ND2	1:b:386:GLY:O	2.49	0.46
1:c:407:ARG:HD2	1:s:224:SER:O	2.15	0.46
1:c:554:ASN:HB3	1:p:464:LEU:HD23	1.98	0.46
1:e:224:SER:O	1:h:407:ARG:HD2	2.15	0.46
1:h:328:GLN:NE2	1:h:333:LYS:HG3	2.23	0.46
1:i:617:GLN:N	1:i:617:GLN:OE1	2.47	0.46
1:l:307:TRP:NE1	1:l:692:GLU:HG2	2.31	0.46
1:n:508:ALA:HB1	1:n:519:LEU:HD13	1.97	0.46
1:o:425:SER:OG	1:p:628:ASP:OD2	2.30	0.46
1:o:610:GLN:HE21	1:p:627:THR:CG2	2.24	0.46
1:p:224:SER:C	1:q:407:ARG:HD2	2.41	0.46
1:p:297:ARG:O	1:p:300:GLN:N	2.48	0.46
1:p:384:ASN:ND2	1:p:386:GLY:O	2.49	0.46
1:r:307:TRP:NE1	1:r:692:GLU:HG2	2.31	0.46
1:r:328:GLN:NE2	1:r:333:LYS:HG3	2.23	0.46
1:t:238:ASP:OD1	1:t:239:ARG:N	2.49	0.46
1:t:461:GLN:H	1:t:461:GLN:CD	2.22	0.46
1:u:307:TRP:NE1	1:u:692:GLU:HG2	2.31	0.46
1:u:431:GLN:NE2	1:v:354:PRO:HB3	2.23	0.46
1:w:617:GLN:OE1	1:w:617:GLN:N	2.47	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:x:508:ALA:HB1	1:x:519:LEU:HD13	1.97	0.46
1:x:532:ASP:OD1	1:y:385:ASN:ND2	2.47	0.46
1:y:307:TRP:NE1	1:y:692:GLU:HG2	2.31	0.46
1:2:617:GLN:OE1	1:2:617:GLN:N	2.47	0.46
1:3:312:LYS:O	1:3:418:PHE:N	2.44	0.46
1:6:384:ASN:ND2	1:6:386:GLY:O	2.49	0.46
1:7:457:THR:HG23	1:7:458:GLN:HG3	1.96	0.46
1:7:528:THR:H	1:7:565:GLU:HB2	1.80	0.46
1:D:307:TRP:NE1	1:D:692:GLU:HG2	2.31	0.46
1:E:238:ASP:OD1	1:E:239:ARG:N	2.49	0.46
1:E:439:PRO:HB3	1:Q:381:LEU:HD21	1.98	0.46
1:G:384:ASN:ND2	1:G:386:GLY:O	2.48	0.46
1:H:224:SER:O	1:I:407:ARG:HD2	2.16	0.46
1:H:461:GLN:H	1:H:461:GLN:CD	2.22	0.46
1:H:508:ALA:HB1	1:H:519:LEU:HD13	1.98	0.46
1:I:299:TRP:CG	1:I:616:LEU:HD13	2.52	0.46
1:K:354:PRO:HB3	1:8:431:GLN:NE2	2.23	0.46
1:K:439:PRO:HB3	1:a:381:LEU:HD21	1.98	0.46
1:K:610:GLN:HE21	1:a:627:THR:CG2	2.25	0.46
1:L:384:ASN:ND2	1:L:386:GLY:O	2.49	0.46
1:L:461:GLN:H	1:L:461:GLN:CD	2.22	0.46
1:L:508:ALA:HB1	1:L:519:LEU:HD13	1.97	0.46
1:O:254:ASN:C	1:O:256:HIS:N	2.72	0.46
1:S:416:TYR:OH	1:S:644:HIS:O	2.33	0.46
1:X:508:ALA:HB1	1:X:519:LEU:HD13	1.97	0.46
1:Z:238:ASP:OD1	1:Z:239:ARG:N	2.49	0.46
1:Z:407:ARG:HD2	1:a:224:SER:O	2.16	0.46
1:a:508:ALA:HB1	1:a:519:LEU:HD13	1.98	0.46
1:b:224:SER:C	1:o:407:ARG:HD2	2.41	0.46
1:c:299:TRP:CG	1:c:616:LEU:HD13	2.52	0.46
1:d:254:ASN:C	1:d:256:HIS:N	2.72	0.46
1:e:224:SER:C	1:h:407:ARG:HD2	2.41	0.46
1:h:224:SER:O	1:i:407:ARG:HD2	2.16	0.46
1:i:532:ASP:OD1	1:j:385:ASN:ND2	2.47	0.46
1:j:583:ALA:O	1:k:487:ARG:HD2	2.16	0.46
1:k:407:ARG:HD2	1:w:224:SER:O	2.16	0.46
1:m:238:ASP:OD1	1:m:239:ARG:N	2.49	0.46
1:q:307:TRP:NE1	1:q:692:GLU:HG2	2.31	0.46
1:r:528:THR:H	1:r:565:GLU:HB2	1.80	0.46
1:t:224:SER:C	1:6:407:ARG:HD2	2.41	0.46
1:t:407:ARG:HD2	1:y:224:SER:C	2.41	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:u:254:ASN:C	1:u:256:HIS:N	2.72	0.46
1:v:238:ASP:OD1	1:v:239:ARG:N	2.49	0.46
1:w:425:SER:OG	1:x:628:ASP:OD2	2.30	0.46
1:x:528:THR:H	1:x:565:GLU:HB2	1.80	0.46
1:x:583:ALA:O	1:y:487:ARG:HD2	2.17	0.46
1:z:307:TRP:NE1	1:z:692:GLU:HG2	2.31	0.46
1:2:254:ASN:C	1:2:256:HIS:N	2.72	0.46
1:2:416:TYR:OH	1:2:644:HIS:O	2.33	0.46
1:4:328:GLN:NE2	1:4:333:LYS:HG3	2.23	0.46
1:6:429:HIS:CG	1:6:738:LEU:HD12	2.50	0.46
1:7:238:ASP:OD1	1:7:239:ARG:N	2.49	0.46
1:B:238:ASP:OD1	1:B:239:ARG:N	2.49	0.45
1:C:307:TRP:NE1	1:C:692:GLU:HG2	2.31	0.45
1:C:508:ALA:HB1	1:C:519:LEU:HD13	1.97	0.45
1:E:384:ASN:ND2	1:E:386:GLY:O	2.49	0.45
1:E:532:ASP:OD1	1:Q:385:ASN:ND2	2.48	0.45
1:F:407:ARG:HD2	1:R:224:SER:O	2.15	0.45
1:F:429:HIS:CG	1:F:738:LEU:HD12	2.50	0.45
1:G:238:ASP:OD1	1:G:239:ARG:N	2.49	0.45
1:G:439:PRO:HB3	1:I:381:LEU:HD21	1.98	0.45
1:J:307:TRP:NE1	1:J:692:GLU:HG2	2.31	0.45
1:K:224:SER:C	1:L:407:ARG:HD2	2.41	0.45
1:K:307:TRP:NE1	1:K:692:GLU:HG2	2.31	0.45
1:K:528:THR:H	1:K:565:GLU:HB2	1.80	0.45
1:L:238:ASP:OD1	1:L:239:ARG:N	2.49	0.45
1:L:312:LYS:O	1:L:418:PHE:N	2.44	0.45
1:L:528:THR:H	1:L:565:GLU:HB2	1.80	0.45
1:M:307:TRP:NE1	1:M:692:GLU:HG2	2.31	0.45
1:N:299:TRP:CG	1:N:616:LEU:HD13	2.52	0.45
1:N:312:LYS:O	1:N:418:PHE:N	2.44	0.45
1:O:381:LEU:HD21	1:n:439:PRO:HB3	1.98	0.45
1:O:407:ARG:HD2	1:d:224:SER:C	2.41	0.45
1:O:627:THR:CG2	1:n:610:GLN:HE21	2.25	0.45
1:P:224:SER:C	1:Q:407:ARG:HD2	2.41	0.45
1:P:461:GLN:H	1:P:461:GLN:CD	2.22	0.45
1:R:328:GLN:NE2	1:R:333:LYS:HG3	2.23	0.45
1:R:381:LEU:HD21	1:U:439:PRO:HB3	1.98	0.45
1:T:224:SER:C	1:U:407:ARG:HD2	2.42	0.45
1:W:307:TRP:NE1	1:W:692:GLU:HG2	2.31	0.45
1:X:329:ASN:O	1:X:332:THR:OG1	2.21	0.45
1:Y:528:THR:H	1:Y:565:GLU:HB2	1.80	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Z:528:THR:H	1:Z:565:GLU:HB2	1.80	0.45
1:a:299:TRP:CG	1:a:616:LEU:HD13	2.52	0.45
1:b:238:ASP:OD1	1:b:239:ARG:N	2.49	0.45
1:l:407:ARG:HD2	1:n:224:SER:O	2.15	0.45
1:n:328:GLN:NE2	1:n:333:LYS:HG3	2.23	0.45
1:n:623:LYS:HB2	1:n:645:PRO:HG3	1.97	0.45
1:p:238:ASP:OD1	1:p:239:ARG:N	2.49	0.45
1:s:508:ALA:HB1	1:s:519:LEU:HD13	1.98	0.45
1:t:381:LEU:HD21	1:v:439:PRO:HB3	1.98	0.45
1:t:407:ARG:HD2	1:y:224:SER:O	2.15	0.45
1:u:416:TYR:OH	1:u:644:HIS:O	2.33	0.45
1:v:508:ALA:HB1	1:v:519:LEU:HD13	1.98	0.45
1:1:439:PRO:HB3	1:2:381:LEU:HD21	1.98	0.45
1:2:531:ASP:OD1	1:2:569:LYS:NZ	2.28	0.45
1:3:224:SER:C	1:8:407:ARG:HD2	2.41	0.45
1:3:381:LEU:HD21	1:4:439:PRO:HB3	1.98	0.45
1:3:508:ALA:HB1	1:3:519:LEU:HD13	1.98	0.45
1:4:307:TRP:NE1	1:4:692:GLU:HG2	2.31	0.45
1:5:385:ASN:ND2	1:7:532:ASP:OD1	2.48	0.45
1:7:384:ASN:ND2	1:7:386:GLY:O	2.49	0.45
1:8:329:ASN:O	1:8:332:THR:OG1	2.21	0.45
1:B:299:TRP:CG	1:B:616:LEU:HD13	2.51	0.45
1:B:461:GLN:H	1:B:461:GLN:CD	2.22	0.45
1:C:238:ASP:OD1	1:C:239:ARG:N	2.49	0.45
1:C:384:ASN:ND2	1:C:386:GLY:O	2.49	0.45
1:C:461:GLN:H	1:C:461:GLN:CD	2.22	0.45
1:D:425:SER:HB2	1:D:427:TYR:CE2	2.52	0.45
1:E:457:THR:HG23	1:E:458:GLN:HG3	1.96	0.45
1:F:299:TRP:CG	1:F:616:LEU:HD13	2.51	0.45
1:H:297:ARG:O	1:H:300:GLN:N	2.48	0.45
1:J:299:TRP:CG	1:J:616:LEU:HD13	2.52	0.45
1:K:328:GLN:NE2	1:K:333:LYS:HG3	2.23	0.45
1:K:425:SER:HB2	1:K:427:TYR:CE2	2.52	0.45
1:M:299:TRP:CG	1:M:616:LEU:HD13	2.52	0.45
1:N:439:PRO:HB3	1:P:381:LEU:HD21	1.98	0.45
1:O:307:TRP:NE1	1:O:692:GLU:HG2	2.31	0.45
1:O:384:ASN:ND2	1:O:386:GLY:O	2.48	0.45
1:Q:425:SER:HB2	1:Q:427:TYR:CE2	2.52	0.45
1:R:407:ARG:HD2	1:V:224:SER:O	2.15	0.45
1:R:407:ARG:HD2	1:V:224:SER:C	2.41	0.45
1:S:528:THR:H	1:S:565:GLU:HB2	1.80	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:T:508:ALA:HB1	1:T:519:LEU:HD13	1.97	0.45
1:T:554:ASN:HB3	1:l:464:LEU:HD23	1.98	0.45
1:U:508:ALA:HB1	1:U:519:LEU:HD13	1.97	0.45
1:V:385:ASN:ND2	1:X:532:ASP:OD1	2.48	0.45
1:V:487:ARG:HD2	1:X:583:ALA:O	2.17	0.45
1:X:528:THR:H	1:X:565:GLU:HB2	1.80	0.45
1:Y:238:ASP:OD1	1:Y:239:ARG:N	2.49	0.45
1:Z:628:ASP:OD2	1:3:425:SER:OG	2.30	0.45
1:a:439:PRO:HB3	1:8:381:LEU:HD21	1.98	0.45
1:b:299:TRP:CG	1:b:616:LEU:HD13	2.52	0.45
1:b:425:SER:HB2	1:b:427:TYR:CE2	2.52	0.45
1:d:508:ALA:HB1	1:d:519:LEU:HD13	1.98	0.45
1:d:617:GLN:OE1	1:d:617:GLN:N	2.47	0.45
1:e:528:THR:H	1:e:565:GLU:HB2	1.80	0.45
1:f:238:ASP:OD1	1:f:239:ARG:N	2.49	0.45
1:g:224:SER:C	1:1:407:ARG:HD2	2.41	0.45
1:i:328:GLN:NE2	1:i:333:LYS:HG3	2.23	0.45
1:j:238:ASP:OD1	1:j:239:ARG:N	2.49	0.45
1:j:328:GLN:NE2	1:j:333:LYS:HG3	2.23	0.45
1:l:407:ARG:HD2	1:n:224:SER:C	2.41	0.45
1:m:583:ALA:O	1:n:487:ARG:HD2	2.17	0.45
1:s:297:ARG:O	1:s:300:GLN:N	2.48	0.45
1:t:425:SER:HB2	1:t:427:TYR:CE2	2.52	0.45
1:u:297:ARG:O	1:u:300:GLN:N	2.48	0.45
1:v:407:ARG:HD2	1:1:224:SER:C	2.42	0.45
1:w:528:THR:H	1:w:565:GLU:HB2	1.80	0.45
1:x:429:HIS:CG	1:x:738:LEU:HD12	2.50	0.45
1:z:554:ASN:HB3	1:2:464:LEU:HD23	1.97	0.45
1:1:299:TRP:CG	1:1:616:LEU:HD13	2.52	0.45
1:1:508:ALA:HB1	1:1:519:LEU:HD13	1.98	0.45
1:2:508:ALA:HB1	1:2:519:LEU:HD13	1.98	0.45
1:3:254:ASN:C	1:3:256:HIS:N	2.72	0.45
1:3:328:GLN:NE2	1:3:333:LYS:HG3	2.23	0.45
1:3:384:ASN:ND2	1:3:386:GLY:O	2.49	0.45
1:6:299:TRP:CG	1:6:616:LEU:HD13	2.52	0.45
1:8:461:GLN:H	1:8:461:GLN:CD	2.22	0.45
1:A:224:SER:C	1:E:407:ARG:HD2	2.41	0.45
1:A:528:THR:H	1:A:565:GLU:HB2	1.80	0.45
1:B:407:ARG:HD2	1:C:224:SER:O	2.15	0.45
1:B:425:SER:HB2	1:B:427:TYR:CE2	2.52	0.45
1:C:407:ARG:HD2	1:D:224:SER:C	2.42	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:385:ASN:ND2	1:Y:532:ASP:OD1	2.47	0.45
1:J:224:SER:C	1:a:407:ARG:HD2	2.42	0.45
1:L:416:TYR:OH	1:L:644:HIS:O	2.33	0.45
1:O:224:SER:C	1:P:407:ARG:HD2	2.41	0.45
1:O:312:LYS:O	1:O:418:PHE:N	2.44	0.45
1:P:307:TRP:NE1	1:P:692:GLU:HG2	2.31	0.45
1:R:425:SER:HB2	1:R:427:TYR:CE2	2.52	0.45
1:R:508:ALA:HB1	1:R:519:LEU:HD13	1.97	0.45
1:S:299:TRP:CG	1:S:616:LEU:HD13	2.51	0.45
1:S:425:SER:HB2	1:S:427:TYR:CE2	2.52	0.45
1:T:299:TRP:CG	1:T:616:LEU:HD13	2.52	0.45
1:V:238:ASP:OD1	1:V:239:ARG:N	2.49	0.45
1:V:299:TRP:CG	1:V:616:LEU:HD13	2.52	0.45
1:b:307:TRP:NE1	1:b:692:GLU:HG2	2.31	0.45
1:b:461:GLN:H	1:b:461:GLN:CD	2.22	0.45
1:f:628:ASP:OD2	1:g:425:SER:OG	2.30	0.45
1:j:224:SER:C	1:x:407:ARG:HD2	2.41	0.45
1:k:299:TRP:CG	1:k:616:LEU:HD13	2.51	0.45
1:k:312:LYS:O	1:k:418:PHE:N	2.44	0.45
1:k:328:GLN:NE2	1:k:333:LYS:HG3	2.23	0.45
1:k:407:ARG:HD2	1:w:224:SER:C	2.42	0.45
1:m:528:THR:H	1:m:565:GLU:HB2	1.80	0.45
1:n:297:ARG:O	1:n:300:GLN:N	2.48	0.45
1:n:307:TRP:NE1	1:n:692:GLU:HG2	2.31	0.45
1:n:617:GLN:N	1:n:617:GLN:OE1	2.47	0.45
1:q:224:SER:O	1:y:407:ARG:HD2	2.15	0.45
1:r:238:ASP:OD1	1:r:239:ARG:N	2.49	0.45
1:r:532:ASP:OD1	1:s:385:ASN:ND2	2.47	0.45
1:s:531:ASP:OD1	1:s:569:LYS:NZ	2.28	0.45
1:u:299:TRP:CG	1:u:616:LEU:HD13	2.51	0.45
1:u:425:SER:HB2	1:u:427:TYR:CE2	2.52	0.45
1:u:528:THR:H	1:u:565:GLU:HB2	1.80	0.45
1:y:238:ASP:OD1	1:y:239:ARG:N	2.49	0.45
1:y:299:TRP:CG	1:y:616:LEU:HD13	2.52	0.45
1:z:407:ARG:HD2	1:4:224:SER:O	2.16	0.45
1:z:487:ARG:HD2	1:2:583:ALA:O	2.17	0.45
1:2:297:ARG:O	1:2:300:GLN:N	2.48	0.45
1:3:224:SER:O	1:8:407:ARG:HD2	2.15	0.45
1:3:307:TRP:NE1	1:3:692:GLU:HG2	2.31	0.45
1:4:297:ARG:O	1:4:300:GLN:N	2.48	0.45
1:4:623:LYS:HB2	1:4:645:PRO:HG3	1.96	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:5:407:ARG:HD2	1:8:224:SER:C	2.42	0.45
1:5:425:SER:HB2	1:5:427:TYR:CE2	2.52	0.45
1:5:528:THR:H	1:5:565:GLU:HB2	1.80	0.45
1:B:307:TRP:NE1	1:B:692:GLU:HG2	2.31	0.45
1:C:416:TYR:OH	1:C:644:HIS:O	2.33	0.45
1:D:354:PRO:HB3	1:P:431:GLN:NE2	2.24	0.45
1:D:439:PRO:HB3	1:N:381:LEU:HD21	1.98	0.45
1:E:416:TYR:OH	1:E:644:HIS:O	2.33	0.45
1:E:583:ALA:O	1:Q:487:ARG:HD2	2.17	0.45
1:F:307:TRP:NE1	1:F:692:GLU:HG2	2.31	0.45
1:F:407:ARG:HD2	1:R:224:SER:C	2.41	0.45
1:J:528:THR:H	1:J:565:GLU:HB2	1.80	0.45
1:M:528:THR:H	1:M:565:GLU:HB2	1.80	0.45
1:O:224:SER:O	1:P:407:ARG:HD2	2.16	0.45
1:O:328:GLN:NE2	1:O:333:LYS:HG3	2.23	0.45
1:P:329:ASN:O	1:P:332:THR:OG1	2.21	0.45
1:Q:224:SER:C	1:S:407:ARG:HD2	2.41	0.45
1:Q:254:ASN:C	1:Q:256:HIS:N	2.72	0.45
1:Q:307:TRP:NE1	1:Q:692:GLU:HG2	2.31	0.45
1:R:487:ARG:HD2	1:U:583:ALA:O	2.16	0.45
1:S:297:ARG:O	1:S:300:GLN:N	2.48	0.45
1:U:224:SER:C	1:e:407:ARG:HD2	2.41	0.45
1:U:312:LYS:O	1:U:418:PHE:N	2.44	0.45
1:X:224:SER:C	1:Y:407:ARG:HD2	2.41	0.45
1:X:429:HIS:CG	1:X:738:LEU:HD12	2.50	0.45
1:Y:299:TRP:CG	1:Y:616:LEU:HD13	2.51	0.45
1:Z:297:ARG:O	1:Z:300:GLN:N	2.48	0.45
1:Z:407:ARG:HD2	1:a:224:SER:C	2.42	0.45
1:d:297:ARG:O	1:d:300:GLN:N	2.48	0.45
1:d:439:PRO:HB3	1:l:381:LEU:HD21	1.97	0.45
1:f:328:GLN:NE2	1:f:333:LYS:HG3	2.23	0.45
1:f:381:LEU:HD21	1:g:439:PRO:HB3	1.98	0.45
1:g:297:ARG:O	1:g:300:GLN:N	2.48	0.45
1:g:425:SER:HB2	1:g:427:TYR:CE2	2.52	0.45
1:h:312:LYS:O	1:h:418:PHE:N	2.44	0.45
1:i:297:ARG:O	1:i:300:GLN:N	2.48	0.45
1:i:425:SER:HB2	1:i:427:TYR:CE2	2.52	0.45
1:i:425:SER:OG	1:j:628:ASP:OD2	2.30	0.45
1:i:439:PRO:HB3	1:j:381:LEU:HD21	1.98	0.45
1:m:431:GLN:NE2	1:n:354:PRO:HB3	2.23	0.45
1:n:299:TRP:CG	1:n:616:LEU:HD13	2.51	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:n:416:TYR:OH	1:n:644:HIS:O	2.33	0.45
1:q:401:PHE:HE1	1:s:695:LYS:HB3	1.82	0.45
1:r:299:TRP:CG	1:r:616:LEU:HD13	2.51	0.45
1:u:224:SER:O	1:2:407:ARG:HD2	2.17	0.45
1:v:531:ASP:OD1	1:v:569:LYS:NZ	2.28	0.45
1:y:425:SER:HB2	1:y:427:TYR:CE2	2.52	0.45
1:1:384:ASN:ND2	1:1:386:GLY:O	2.49	0.45
1:4:299:TRP:CG	1:4:616:LEU:HD13	2.51	0.45
1:6:307:TRP:NE1	1:6:692:GLU:HG2	2.31	0.45
1:A:238:ASP:OD1	1:A:239:ARG:N	2.49	0.45
1:A:299:TRP:CG	1:A:616:LEU:HD13	2.52	0.45
1:A:385:ASN:ND2	1:I:532:ASP:OD1	2.49	0.45
1:C:312:LYS:O	1:C:418:PHE:N	2.44	0.45
1:D:299:TRP:CG	1:D:616:LEU:HD13	2.52	0.45
1:D:508:ALA:HB1	1:D:519:LEU:HD13	1.97	0.45
1:E:381:LEU:HD21	1:F:439:PRO:HB3	1.98	0.45
1:E:557:TYR:HE1	1:E:562:LEU:HD11	1.82	0.45
1:F:487:ARG:HD2	1:Q:583:ALA:O	2.16	0.45
1:G:312:LYS:O	1:G:418:PHE:N	2.44	0.45
1:H:695:LYS:HB3	1:W:401:PHE:HE1	1.82	0.45
1:I:508:ALA:HB1	1:I:519:LEU:HD13	1.98	0.45
1:J:416:TYR:OH	1:J:644:HIS:O	2.33	0.45
1:L:224:SER:O	1:b:407:ARG:HD2	2.15	0.45
1:O:425:SER:OG	1:m:628:ASP:OD2	2.30	0.45
1:Q:528:THR:H	1:Q:565:GLU:HB2	1.80	0.45
1:R:233:SER:OG	1:R:298:ASP:OD2	2.34	0.45
1:T:384:ASN:ND2	1:T:386:GLY:O	2.49	0.45
1:U:328:GLN:NE2	1:U:333:LYS:HG3	2.23	0.45
1:V:381:LEU:HD21	1:X:439:PRO:HB3	1.98	0.45
1:V:407:ARG:HD2	1:W:224:SER:O	2.16	0.45
1:V:425:SER:HB2	1:V:427:TYR:CE2	2.52	0.45
1:W:461:GLN:H	1:W:461:GLN:CD	2.22	0.45
1:X:425:SER:HB2	1:X:427:TYR:CE2	2.52	0.45
1:Z:425:SER:HB2	1:Z:427:TYR:CE2	2.52	0.45
1:Z:429:HIS:NE2	1:4:627:THR:HG22	2.31	0.45
1:c:508:ALA:HB1	1:c:519:LEU:HD13	1.98	0.45
1:d:583:ALA:O	1:l:487:ARG:HD2	2.17	0.45
1:e:704:THR:HG1	1:f:702:GLN:H	1.57	0.45
1:h:299:TRP:CG	1:h:616:LEU:HD13	2.52	0.45
1:i:627:THR:HG22	1:k:429:HIS:NE2	2.31	0.45
1:j:464:LEU:HD23	1:k:554:ASN:HB3	1.99	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:o:238:ASP:OD1	1:o:239:ARG:N	2.49	0.45
1:o:695:LYS:HB3	1:p:401:PHE:HE1	1.81	0.45
1:t:508:ALA:HB1	1:t:519:LEU:HD13	1.97	0.45
1:u:429:HIS:NE2	1:v:627:THR:HG22	2.32	0.45
1:w:307:TRP:NE1	1:w:692:GLU:HG2	2.31	0.45
1:w:429:HIS:NE2	1:x:627:THR:HG22	2.32	0.45
1:w:557:TYR:HE1	1:w:562:LEU:HD11	1.82	0.45
1:x:425:SER:HB2	1:x:427:TYR:CE2	2.52	0.45
1:x:617:GLN:OE1	1:x:617:GLN:N	2.47	0.45
1:z:407:ARG:HD2	1:4:224:SER:C	2.42	0.45
1:1:425:SER:HB2	1:1:427:TYR:CE2	2.52	0.45
1:3:627:THR:CG2	1:4:610:GLN:HE21	2.25	0.45
1:5:307:TRP:NE1	1:5:692:GLU:HG2	2.31	0.45
1:5:439:PRO:HB3	1:6:381:LEU:HD21	1.97	0.45
1:6:439:PRO:HB3	1:7:381:LEU:HD21	1.98	0.45
1:6:508:ALA:HB1	1:6:519:LEU:HD13	1.97	0.45
1:7:416:TYR:OH	1:7:644:HIS:O	2.33	0.45
1:8:299:TRP:CG	1:8:616:LEU:HD13	2.52	0.45
1:8:307:TRP:NE1	1:8:692:GLU:HG2	2.31	0.45
1:A:461:GLN:CD	1:A:461:GLN:H	2.22	0.45
1:B:407:ARG:HD2	1:C:224:SER:C	2.41	0.45
1:D:329:ASN:O	1:D:332:THR:OG1	2.21	0.45
1:H:531:ASP:OD1	1:H:569:LYS:NZ	2.28	0.45
1:J:429:HIS:NE2	1:L:627:THR:HG22	2.32	0.45
1:M:416:TYR:OH	1:M:644:HIS:O	2.33	0.45
1:P:282:TRP:CD1	1:P:398:LEU:HD12	2.52	0.45
1:P:299:TRP:CG	1:P:616:LEU:HD13	2.52	0.45
1:Q:299:TRP:CG	1:Q:616:LEU:HD13	2.52	0.45
1:R:557:TYR:HE1	1:R:562:LEU:HD11	1.82	0.45
1:T:407:ARG:HD2	1:i:224:SER:C	2.42	0.45
1:T:425:SER:HB2	1:T:427:TYR:CE2	2.52	0.45
1:T:487:ARG:HD2	1:l:583:ALA:O	2.17	0.45
1:V:282:TRP:CD1	1:V:398:LEU:HD12	2.52	0.45
1:W:583:ALA:O	1:Y:487:ARG:HD2	2.17	0.45
1:W:702:GLN:N	1:X:704:THR:OG1	2.37	0.45
1:X:282:TRP:NE1	1:X:398:LEU:HB2	2.32	0.45
1:X:299:TRP:CG	1:X:616:LEU:HD13	2.52	0.45
1:X:628:ASP:OD2	1:e:425:SER:OG	2.30	0.45
1:Y:557:TYR:HE1	1:Y:562:LEU:HD11	1.82	0.45
1:c:407:ARG:HD2	1:s:224:SER:C	2.41	0.45
1:d:307:TRP:NE1	1:d:692:GLU:HG2	2.31	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:e:282:TRP:CD1	1:e:398:LEU:HD12	2.52	0.45
1:e:307:TRP:NE1	1:e:692:GLU:HG2	2.31	0.45
1:e:557:TYR:HE1	1:e:562:LEU:HD11	1.82	0.45
1:f:407:ARG:HD2	1:z:224:SER:C	2.42	0.45
1:l:238:ASP:OD1	1:l:239:ARG:N	2.49	0.45
1:l:425:SER:HB2	1:l:427:TYR:CE2	2.52	0.45
1:m:297:ARG:O	1:m:300:GLN:N	2.48	0.45
1:m:307:TRP:NE1	1:m:692:GLU:HG2	2.31	0.45
1:m:425:SER:HB2	1:m:427:TYR:CE2	2.52	0.45
1:o:299:TRP:CG	1:o:616:LEU:HD13	2.52	0.45
1:o:425:SER:HB2	1:o:427:TYR:CE2	2.52	0.45
1:o:528:THR:H	1:o:565:GLU:HB2	1.80	0.45
1:p:407:ARG:HD2	1:6:224:SER:O	2.16	0.45
1:q:461:GLN:H	1:q:461:GLN:CD	2.22	0.45
1:q:583:ALA:O	1:r:487:ARG:HD2	2.17	0.45
1:r:557:TYR:HE1	1:r:562:LEU:HD11	1.82	0.45
1:r:617:GLN:OE1	1:r:617:GLN:N	2.47	0.45
1:t:340:THR:HB	1:t:407:ARG:NH2	2.29	0.45
1:t:557:TYR:HE1	1:t:562:LEU:HD11	1.82	0.45
1:v:328:GLN:NE2	1:v:333:LYS:HG3	2.23	0.45
1:w:282:TRP:CD1	1:w:398:LEU:HD12	2.52	0.45
1:w:695:LYS:HB3	1:x:401:PHE:HE1	1.82	0.45
1:x:238:ASP:OD1	1:x:239:ARG:N	2.49	0.45
1:x:299:TRP:CG	1:x:616:LEU:HD13	2.52	0.45
1:x:439:PRO:HB3	1:y:381:LEU:HD21	1.98	0.45
1:z:381:LEU:HD21	1:2:439:PRO:HB3	1.97	0.45
1:z:425:SER:HB2	1:z:427:TYR:CE2	2.52	0.45
1:z:429:HIS:NE2	1:1:627:THR:HG22	2.32	0.45
1:1:617:GLN:OE1	1:1:617:GLN:N	2.47	0.45
1:2:307:TRP:NE1	1:2:692:GLU:HG2	2.31	0.45
1:5:299:TRP:CG	1:5:616:LEU:HD13	2.51	0.45
1:6:532:ASP:OD1	1:7:385:ASN:ND2	2.47	0.45
1:7:557:TYR:HE1	1:7:562:LEU:HD11	1.82	0.45
1:A:425:SER:HB2	1:A:427:TYR:CE2	2.52	0.45
1:B:487:ARG:HD2	1:L:583:ALA:O	2.17	0.45
1:C:583:ALA:O	1:b:487:ARG:HD2	2.17	0.45
1:C:627:THR:HG22	1:M:429:HIS:NE2	2.32	0.45
1:D:328:GLN:NE2	1:D:333:LYS:HG3	2.23	0.45
1:E:464:LEU:HD23	1:Q:554:ASN:HB3	1.99	0.45
1:E:487:ARG:HD2	1:F:583:ALA:O	2.17	0.45
1:F:508:ALA:HB1	1:F:519:LEU:HD13	1.98	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:425:SER:HB2	1:H:427:TYR:CE2	2.52	0.45
1:I:425:SER:HB2	1:I:427:TYR:CE2	2.52	0.45
1:K:238:ASP:OD1	1:K:239:ARG:N	2.49	0.45
1:K:299:TRP:CG	1:K:616:LEU:HD13	2.52	0.45
1:K:429:HIS:NE2	1:a:627:THR:HG22	2.32	0.45
1:K:508:ALA:HB1	1:K:519:LEU:HD13	1.98	0.45
1:L:224:SER:C	1:b:407:ARG:HD2	2.41	0.45
1:M:425:SER:HB2	1:M:427:TYR:CE2	2.52	0.45
1:N:583:ALA:O	1:P:487:ARG:HD2	2.16	0.45
1:S:282:TRP:CD1	1:S:398:LEU:HD12	2.52	0.45
1:T:282:TRP:CD1	1:T:398:LEU:HD12	2.52	0.45
1:T:617:GLN:OE1	1:T:617:GLN:N	2.47	0.45
1:T:627:THR:HG22	1:l:429:HIS:NE2	2.32	0.45
1:U:307:TRP:NE1	1:U:692:GLU:HG2	2.31	0.45
1:X:407:ARG:HD2	1:f:224:SER:C	2.41	0.45
1:X:617:GLN:OE1	1:X:617:GLN:N	2.47	0.45
1:Z:307:TRP:NE1	1:Z:692:GLU:HG2	2.31	0.45
1:Z:627:THR:HG22	1:3:429:HIS:NE2	2.32	0.45
1:a:384:ASN:ND2	1:a:386:GLY:O	2.48	0.45
1:d:299:TRP:CG	1:d:616:LEU:HD13	2.52	0.45
1:f:299:TRP:CG	1:f:616:LEU:HD13	2.52	0.45
1:f:528:THR:H	1:f:565:GLU:HB2	1.80	0.45
1:f:627:THR:HG22	1:g:429:HIS:NE2	2.32	0.45
1:g:461:GLN:H	1:g:461:GLN:CD	2.22	0.45
1:g:557:TYR:HE1	1:g:562:LEU:HD11	1.82	0.45
1:i:695:LYS:HB3	1:j:401:PHE:HE1	1.82	0.45
1:s:425:SER:HB2	1:s:427:TYR:CE2	2.52	0.45
1:u:282:TRP:CD1	1:u:398:LEU:HD12	2.52	0.45
1:v:416:TYR:OH	1:v:644:HIS:O	2.33	0.45
1:w:487:ARG:HD2	1:y:583:ALA:O	2.17	0.45
1:y:282:TRP:CD1	1:y:398:LEU:HD12	2.52	0.45
1:z:238:ASP:OD1	1:z:239:ARG:N	2.49	0.45
1:1:282:TRP:CD1	1:1:398:LEU:HD12	2.52	0.45
1:4:416:TYR:OH	1:4:644:HIS:O	2.33	0.45
1:5:254:ASN:C	1:5:256:HIS:N	2.72	0.45
1:5:487:ARG:HD2	1:7:583:ALA:O	2.17	0.45
1:6:583:ALA:O	1:7:487:ARG:HD2	2.17	0.45
1:8:282:TRP:CD1	1:8:398:LEU:HD12	2.52	0.45
1:A:473:MET:HE3	1:A:473:MET:HB2	1.86	0.45
1:B:328:GLN:NE2	1:B:333:LYS:HG3	2.23	0.45
1:B:439:PRO:HB3	1:J:381:LEU:HD21	1.98	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:695:LYS:HB3	1:J:401:PHE:HE1	1.82	0.45
1:D:238:ASP:OD1	1:D:239:ARG:N	2.49	0.45
1:F:282:TRP:CD1	1:F:398:LEU:HD12	2.52	0.45
1:G:508:ALA:HB1	1:G:519:LEU:HD13	1.98	0.45
1:H:224:SER:C	1:I:407:ARG:HD2	2.42	0.45
1:H:532:ASP:OD1	1:W:385:ASN:ND2	2.48	0.45
1:H:554:ASN:HB3	1:Y:464:LEU:HD23	1.99	0.45
1:I:557:TYR:HE1	1:I:562:LEU:HD11	1.82	0.45
1:J:282:TRP:NE1	1:J:398:LEU:HB2	2.32	0.45
1:J:425:SER:HB2	1:J:427:TYR:CE2	2.52	0.45
1:M:282:TRP:NE1	1:M:398:LEU:HB2	2.32	0.45
1:M:381:LEU:HD21	1:b:439:PRO:HB3	1.98	0.45
1:M:628:ASP:OD2	1:b:425:SER:OG	2.30	0.45
1:N:307:TRP:NE1	1:N:692:GLU:HG2	2.31	0.45
1:N:384:ASN:ND2	1:N:386:GLY:O	2.49	0.45
1:O:238:ASP:OD1	1:O:239:ARG:N	2.49	0.45
1:O:557:TYR:HE1	1:O:562:LEU:HD11	1.82	0.45
1:Q:416:TYR:OH	1:Q:644:HIS:O	2.33	0.45
1:R:340:THR:HB	1:R:407:ARG:NH2	2.29	0.45
1:R:429:HIS:NE2	1:S:627:THR:HG22	2.32	0.45
1:S:282:TRP:NE1	1:S:398:LEU:HB2	2.32	0.45
1:S:464:LEU:HD23	1:U:554:ASN:HB3	1.99	0.45
1:S:583:ALA:O	1:U:487:ARG:HD2	2.17	0.45
1:V:282:TRP:NE1	1:V:398:LEU:HB2	2.32	0.45
1:W:557:TYR:HE1	1:W:562:LEU:HD11	1.82	0.45
1:X:401:PHE:HE1	1:e:695:LYS:HB3	1.82	0.45
1:X:487:ARG:HD2	1:e:583:ALA:O	2.16	0.45
1:Z:282:TRP:NE1	1:Z:398:LEU:HB2	2.32	0.45
1:Z:554:ASN:HB3	1:3:464:LEU:HD23	1.99	0.45
1:Z:583:ALA:O	1:4:487:ARG:HD2	2.17	0.45
1:b:328:GLN:NE2	1:b:333:LYS:HG3	2.23	0.45
1:c:425:SER:HB2	1:c:427:TYR:CE2	2.52	0.45
1:c:557:TYR:HE1	1:c:562:LEU:HD11	1.82	0.45
1:d:238:ASP:OD1	1:d:239:ARG:N	2.49	0.45
1:d:531:ASP:OD1	1:d:569:LYS:NZ	2.28	0.45
1:f:487:ARG:HD2	1:g:583:ALA:O	2.17	0.45
1:i:557:TYR:HE1	1:i:562:LEU:HD11	1.82	0.45
1:j:299:TRP:CG	1:j:616:LEU:HD13	2.52	0.45
1:j:695:LYS:HB3	1:k:401:PHE:HE1	1.82	0.45
1:m:299:TRP:CG	1:m:616:LEU:HD13	2.52	0.45
1:p:312:LYS:O	1:p:418:PHE:N	2.44	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:p:473:MET:HE3	1:p:473:MET:HB2	1.86	0.45
1:q:224:SER:C	1:y:407:ARG:HD2	2.41	0.45
1:q:385:ASN:ND2	1:s:532:ASP:OD1	2.47	0.45
1:q:557:TYR:HE1	1:q:562:LEU:HD11	1.82	0.45
1:t:464:LEU:HD23	1:u:554:ASN:HB3	1.99	0.45
1:v:307:TRP:NE1	1:v:692:GLU:HG2	2.31	0.45
1:v:312:LYS:O	1:v:418:PHE:N	2.44	0.45
1:x:464:LEU:HD23	1:y:554:ASN:HB3	1.99	0.45
1:1:695:LYS:HB3	1:2:401:PHE:HE1	1.81	0.45
1:2:282:TRP:CD1	1:2:398:LEU:HD12	2.52	0.45
1:2:299:TRP:CG	1:2:616:LEU:HD13	2.52	0.45
1:2:557:TYR:HE1	1:2:562:LEU:HD11	1.82	0.45
1:3:238:ASP:OD1	1:3:239:ARG:N	2.49	0.45
1:3:299:TRP:CG	1:3:616:LEU:HD13	2.52	0.45
1:7:617:GLN:OE1	1:7:617:GLN:N	2.47	0.45
1:A:282:TRP:CD1	1:A:398:LEU:HD12	2.52	0.45
1:A:307:TRP:NE1	1:A:692:GLU:HG2	2.31	0.45
1:A:610:GLN:HE21	1:G:627:THR:CG2	2.26	0.45
1:B:425:SER:OG	1:J:628:ASP:OD2	2.30	0.45
1:C:282:TRP:CD1	1:C:398:LEU:HD12	2.52	0.45
1:D:401:PHE:HE1	1:P:695:LYS:HB3	1.82	0.45
1:D:695:LYS:HB3	1:N:401:PHE:HE1	1.82	0.45
1:E:385:ASN:ND2	1:F:532:ASP:OD1	2.47	0.45
1:E:617:GLN:OE1	1:E:617:GLN:N	2.47	0.45
1:I:233:SER:OG	1:I:298:ASP:OD2	2.34	0.45
1:K:401:PHE:HE1	1:8:695:LYS:HB3	1.82	0.45
1:L:282:TRP:CD1	1:L:398:LEU:HD12	2.52	0.45
1:M:401:PHE:HE1	1:b:695:LYS:HB3	1.82	0.45
1:N:464:LEU:HD23	1:P:554:ASN:HB3	1.99	0.45
1:O:299:TRP:CG	1:O:616:LEU:HD13	2.52	0.45
1:U:282:TRP:NE1	1:U:398:LEU:HB2	2.32	0.45
1:U:299:TRP:CG	1:U:616:LEU:HD13	2.52	0.45
1:U:416:TYR:OH	1:U:644:HIS:O	2.33	0.45
1:Y:425:SER:HB2	1:Y:427:TYR:CE2	2.52	0.45
1:Y:617:GLN:OE1	1:Y:617:GLN:N	2.47	0.45
1:Z:299:TRP:CG	1:Z:616:LEU:HD13	2.52	0.45
1:d:282:TRP:CD1	1:d:398:LEU:HD12	2.52	0.45
1:d:557:TYR:HE1	1:d:562:LEU:HD11	1.82	0.45
1:f:401:PHE:HE1	1:g:695:LYS:HB3	1.82	0.45
1:f:557:TYR:HE1	1:f:562:LEU:HD11	1.82	0.45
1:g:407:ARG:HD2	1:k:224:SER:C	2.41	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:g:487:ARG:HD2	1:h:583:ALA:O	2.17	0.45
1:i:429:HIS:NE2	1:j:627:THR:HG22	2.32	0.45
1:i:461:GLN:H	1:i:461:GLN:CD	2.22	0.45
1:j:528:THR:H	1:j:565:GLU:HB2	1.80	0.45
1:l:557:TYR:HE1	1:l:562:LEU:HD11	1.82	0.45
1:o:461:GLN:H	1:o:461:GLN:CD	2.22	0.45
1:p:508:ALA:HB1	1:p:519:LEU:HD13	1.98	0.45
1:q:299:TRP:CG	1:q:616:LEU:HD13	2.52	0.45
1:r:282:TRP:NE1	1:r:398:LEU:HB2	2.32	0.45
1:t:299:TRP:CG	1:t:616:LEU:HD13	2.52	0.45
1:t:429:HIS:NE2	1:u:627:THR:HG22	2.32	0.45
1:t:487:ARG:HD2	1:v:583:ALA:O	2.17	0.45
1:u:282:TRP:NE1	1:u:398:LEU:HB2	2.32	0.45
1:u:439:PRO:HB3	1:v:381:LEU:HD21	1.98	0.45
1:v:282:TRP:NE1	1:v:398:LEU:HB2	2.32	0.45
1:v:299:TRP:CG	1:v:616:LEU:HD13	2.51	0.45
1:x:282:TRP:NE1	1:x:398:LEU:HB2	2.32	0.45
1:y:282:TRP:NE1	1:y:398:LEU:HB2	2.32	0.45
1:z:557:TYR:HE1	1:z:562:LEU:HD11	1.82	0.45
1:2:238:ASP:OD1	1:2:239:ARG:N	2.49	0.45
1:3:557:TYR:HE1	1:3:562:LEU:HD11	1.82	0.45
1:5:282:TRP:NE1	1:5:398:LEU:HB2	2.32	0.45
1:6:282:TRP:CD1	1:6:398:LEU:HD12	2.52	0.45
1:B:429:HIS:NE2	1:J:627:THR:HG22	2.32	0.45
1:C:299:TRP:CG	1:C:616:LEU:HD13	2.51	0.45
1:C:695:LYS:HB3	1:b:401:PHE:HE1	1.82	0.45
1:E:282:TRP:NE1	1:E:398:LEU:HB2	2.32	0.45
1:E:508:ALA:HB1	1:E:519:LEU:HD13	1.97	0.45
1:G:282:TRP:NE1	1:G:398:LEU:HB2	2.32	0.45
1:G:282:TRP:CD1	1:G:398:LEU:HD12	2.52	0.45
1:G:425:SER:OG	1:I:628:ASP:OD2	2.30	0.45
1:H:282:TRP:CD1	1:H:398:LEU:HD12	2.52	0.45
1:N:282:TRP:CD1	1:N:398:LEU:HD12	2.52	0.45
1:O:282:TRP:NE1	1:O:398:LEU:HB2	2.32	0.45
1:O:429:HIS:NE2	1:m:627:THR:HG22	2.32	0.45
1:Q:282:TRP:NE1	1:Q:398:LEU:HB2	2.32	0.45
1:R:299:TRP:CG	1:R:616:LEU:HD13	2.52	0.45
1:S:439:PRO:HB3	1:U:381:LEU:HD21	1.98	0.45
1:S:695:LYS:HB3	1:U:401:PHE:HE1	1.82	0.45
1:T:307:TRP:NE1	1:T:692:GLU:HG2	2.31	0.45
1:U:233:SER:OG	1:U:298:ASP:OD2	2.34	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:V:583:ALA:O	1:e:487:ARG:HD2	2.17	0.45
1:W:299:TRP:CG	1:W:616:LEU:HD13	2.51	0.45
1:X:384:ASN:ND2	1:X:386:GLY:O	2.49	0.45
1:X:616:LEU:HD22	1:X:729:ILE:HD12	2.00	0.45
1:Y:282:TRP:NE1	1:Y:398:LEU:HB2	2.32	0.45
1:Z:487:ARG:HD2	1:3:583:ALA:O	2.17	0.45
1:Z:557:TYR:HE1	1:Z:562:LEU:HD11	1.82	0.45
1:a:307:TRP:NE1	1:a:692:GLU:HG2	2.31	0.45
1:c:233:SER:OG	1:c:298:ASP:OD2	2.34	0.45
1:c:464:LEU:HD23	1:o:554:ASN:HB3	1.99	0.45
1:f:583:ALA:O	1:h:487:ARG:HD2	2.17	0.45
1:f:695:LYS:HB3	1:h:401:PHE:HE1	1.82	0.45
1:g:282:TRP:NE1	1:g:398:LEU:HB2	2.32	0.45
1:g:299:TRP:CG	1:g:616:LEU:HD13	2.52	0.45
1:g:554:ASN:HB3	1:h:464:LEU:HD23	1.99	0.45
1:h:282:TRP:CD1	1:h:398:LEU:HD12	2.52	0.45
1:i:282:TRP:NE1	1:i:398:LEU:HB2	2.32	0.45
1:j:557:TYR:HE1	1:j:562:LEU:HD11	1.82	0.45
1:k:282:TRP:CD1	1:k:398:LEU:HD12	2.52	0.45
1:k:425:SER:HB2	1:k:427:TYR:CE2	2.52	0.45
1:m:282:TRP:NE1	1:m:398:LEU:HB2	2.32	0.45
1:o:616:LEU:HD22	1:o:729:ILE:HD12	2.00	0.45
1:r:425:SER:HB2	1:r:427:TYR:CE2	2.52	0.45
1:s:299:TRP:CG	1:s:616:LEU:HD13	2.51	0.45
1:v:425:SER:HB2	1:v:427:TYR:CE2	2.52	0.45
1:z:299:TRP:CG	1:z:616:LEU:HD13	2.52	0.45
1:z:695:LYS:HB3	1:1:401:PHE:HE1	1.82	0.45
1:3:282:TRP:NE1	1:3:398:LEU:HB2	2.32	0.45
1:5:416:TYR:OH	1:5:644:HIS:O	2.33	0.45
1:A:254:ASN:C	1:A:256:HIS:N	2.72	0.44
1:A:616:LEU:HD22	1:A:729:ILE:HD12	2.00	0.44
1:B:401:PHE:HE1	1:L:695:LYS:HB3	1.82	0.44
1:C:425:SER:HB2	1:C:427:TYR:CE2	2.52	0.44
1:D:429:HIS:NE2	1:N:627:THR:HG22	2.32	0.44
1:D:554:ASN:HB3	1:P:464:LEU:HD23	1.99	0.44
1:E:299:TRP:CG	1:E:616:LEU:HD13	2.52	0.44
1:F:381:LEU:HD21	1:Q:439:PRO:HB3	1.97	0.44
1:F:554:ASN:HB3	1:Q:464:LEU:HD23	1.99	0.44
1:G:299:TRP:CG	1:G:616:LEU:HD13	2.52	0.44
1:H:429:HIS:NE2	1:W:627:THR:HG22	2.32	0.44
1:H:487:ARG:HD2	1:Y:583:ALA:O	2.17	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:627:THR:HG22	1:Y:429:HIS:NE2	2.32	0.44
1:K:282:TRP:CD1	1:K:398:LEU:HD12	2.52	0.44
1:K:329:ASN:O	1:K:332:THR:OG1	2.21	0.44
1:K:554:ASN:HB3	1:8:464:LEU:HD23	1.99	0.44
1:K:627:THR:HG22	1:8:429:HIS:NE2	2.32	0.44
1:K:695:LYS:HB3	1:a:401:PHE:HE1	1.82	0.44
1:L:299:TRP:CG	1:L:616:LEU:HD13	2.52	0.44
1:L:425:SER:HB2	1:L:427:TYR:CE2	2.52	0.44
1:M:282:TRP:CD1	1:M:398:LEU:HD12	2.52	0.44
1:M:627:THR:HG22	1:b:429:HIS:NE2	2.32	0.44
1:N:425:SER:HB2	1:N:427:TYR:CE2	2.52	0.44
1:O:385:ASN:ND2	1:n:532:ASP:OD1	2.47	0.44
1:O:416:TYR:OH	1:O:644:HIS:O	2.33	0.44
1:O:425:SER:HB2	1:O:427:TYR:CE2	2.52	0.44
1:O:464:LEU:HD23	1:m:554:ASN:HB3	1.99	0.44
1:O:583:ALA:O	1:m:487:ARG:HD2	2.17	0.44
1:P:407:ARG:C	1:P:409:GLY:N	2.76	0.44
1:P:425:SER:HB2	1:P:427:TYR:CE2	2.52	0.44
1:Q:282:TRP:CD1	1:Q:398:LEU:HD12	2.52	0.44
1:R:307:TRP:NE1	1:R:692:GLU:HG2	2.31	0.44
1:S:557:TYR:HE1	1:S:562:LEU:HD11	1.82	0.44
1:T:238:ASP:OD1	1:T:239:ARG:N	2.49	0.44
1:U:425:SER:HB2	1:U:427:TYR:CE2	2.52	0.44
1:V:407:ARG:HD2	1:W:224:SER:C	2.42	0.44
1:V:554:ASN:HB3	1:X:464:LEU:HD23	1.99	0.44
1:X:282:TRP:CD1	1:X:398:LEU:HD12	2.52	0.44
1:Y:224:SER:C	1:4:407:ARG:HD2	2.41	0.44
1:Y:616:LEU:HD22	1:Y:729:ILE:HD12	1.99	0.44
1:a:425:SER:HB2	1:a:427:TYR:CE2	2.52	0.44
1:a:583:ALA:O	1:8:487:ARG:HD2	2.17	0.44
1:c:282:TRP:NE1	1:c:398:LEU:HB2	2.32	0.44
1:c:610:GLN:HE21	1:o:627:THR:CG2	2.25	0.44
1:c:695:LYS:HB3	1:o:401:PHE:HE1	1.82	0.44
1:e:299:TRP:CG	1:e:616:LEU:HD13	2.52	0.44
1:f:282:TRP:CD1	1:f:398:LEU:HD12	2.52	0.44
1:f:429:HIS:NE2	1:h:627:THR:HG22	2.32	0.44
1:h:425:SER:HB2	1:h:427:TYR:CE2	2.52	0.44
1:i:299:TRP:CG	1:i:616:LEU:HD13	2.52	0.44
1:i:487:ARG:HD2	1:k:583:ALA:O	2.17	0.44
1:j:282:TRP:CD1	1:j:398:LEU:HD12	2.52	0.44
1:j:425:SER:HB2	1:j:427:TYR:CE2	2.52	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:m:429:HIS:NE2	1:n:627:THR:HG22	2.32	0.44
1:m:557:TYR:HE1	1:m:562:LEU:HD11	1.82	0.44
1:n:407:ARG:HD2	1:r:224:SER:C	2.41	0.44
1:n:407:ARG:C	1:n:409:GLY:N	2.76	0.44
1:n:425:SER:HB2	1:n:427:TYR:CE2	2.52	0.44
1:o:282:TRP:CD1	1:o:398:LEU:HD12	2.52	0.44
1:o:307:TRP:NE1	1:o:692:GLU:HG2	2.31	0.44
1:p:282:TRP:CD1	1:p:398:LEU:HD12	2.52	0.44
1:p:282:TRP:NE1	1:p:398:LEU:HB2	2.32	0.44
1:p:299:TRP:CG	1:p:616:LEU:HD13	2.52	0.44
1:p:407:ARG:HD2	1:6:224:SER:C	2.42	0.44
1:p:616:LEU:HD22	1:p:729:ILE:HD12	1.99	0.44
1:q:429:HIS:NE2	1:r:627:THR:HG22	2.32	0.44
1:q:487:ARG:HD2	1:s:583:ALA:O	2.17	0.44
1:r:407:ARG:HD2	1:x:224:SER:C	2.42	0.44
1:r:616:LEU:HD22	1:r:729:ILE:HD12	2.00	0.44
1:s:282:TRP:CD1	1:s:398:LEU:HD12	2.52	0.44
1:s:307:TRP:NE1	1:s:692:GLU:HG2	2.31	0.44
1:t:307:TRP:NE1	1:t:692:GLU:HG2	2.31	0.44
1:t:583:ALA:O	1:u:487:ARG:HD2	2.17	0.44
1:t:587:GLN:NE2	1:u:490:ARG:O	2.50	0.44
1:u:374:MET:HE2	1:2:664:PHE:HA	1.98	0.44
1:u:407:ARG:HD2	1:5:224:SER:C	2.42	0.44
1:u:557:TYR:HE1	1:u:562:LEU:HD11	1.82	0.44
1:v:282:TRP:CD1	1:v:398:LEU:HD12	2.52	0.44
1:w:616:LEU:HD22	1:w:729:ILE:HD12	1.99	0.44
1:x:695:LYS:HB3	1:y:401:PHE:HE1	1.82	0.44
1:1:238:ASP:OD1	1:1:239:ARG:N	2.49	0.44
1:2:616:LEU:HD22	1:2:729:ILE:HD12	1.99	0.44
1:5:429:HIS:NE2	1:6:627:THR:HG22	2.32	0.44
1:5:627:THR:HG22	1:7:429:HIS:NE2	2.32	0.44
1:7:282:TRP:NE1	1:7:398:LEU:HB2	2.32	0.44
1:7:299:TRP:CG	1:7:616:LEU:HD13	2.52	0.44
1:8:407:ARG:C	1:8:409:GLY:N	2.76	0.44
1:C:554:ASN:HB3	1:M:464:LEU:HD23	1.99	0.44
1:D:407:ARG:HD2	1:E:224:SER:C	2.41	0.44
1:D:487:ARG:HD2	1:P:583:ALA:O	2.17	0.44
1:D:557:TYR:HE1	1:D:562:LEU:HD11	1.82	0.44
1:D:627:THR:HG22	1:P:429:HIS:NE2	2.32	0.44
1:F:490:ARG:O	1:Q:587:GLN:NE2	2.50	0.44
1:F:616:LEU:HD22	1:F:729:ILE:HD12	1.99	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:616:LEU:HD22	1:G:729:ILE:HD12	2.00	0.44
1:H:238:ASP:OD1	1:H:239:ARG:N	2.49	0.44
1:H:299:TRP:CG	1:H:616:LEU:HD13	2.52	0.44
1:H:307:TRP:NE1	1:H:692:GLU:HG2	2.31	0.44
1:I:297:ARG:O	1:I:300:GLN:N	2.48	0.44
1:J:282:TRP:CD1	1:J:398:LEU:HD12	2.52	0.44
1:K:616:LEU:HD22	1:K:729:ILE:HD12	1.99	0.44
1:N:557:TYR:HE1	1:N:562:LEU:HD11	1.82	0.44
1:R:587:GLN:NE2	1:S:490:ARG:O	2.51	0.44
1:S:425:SER:OG	1:U:628:ASP:OD2	2.31	0.44
1:S:616:LEU:HD22	1:S:729:ILE:HD12	2.00	0.44
1:U:254:ASN:C	1:U:256:HIS:N	2.72	0.44
1:U:282:TRP:CD1	1:U:398:LEU:HD12	2.52	0.44
1:V:401:PHE:HE1	1:X:695:LYS:HB3	1.82	0.44
1:W:282:TRP:NE1	1:W:398:LEU:HB2	2.32	0.44
1:Z:282:TRP:CD1	1:Z:398:LEU:HD12	2.52	0.44
1:Z:431:GLN:NE2	1:4:354:PRO:HB3	2.24	0.44
1:a:282:TRP:CD1	1:a:398:LEU:HD12	2.52	0.44
1:a:695:LYS:HB3	1:8:401:PHE:HE1	1.82	0.44
1:c:238:ASP:OD1	1:c:239:ARG:N	2.49	0.44
1:c:297:ARG:O	1:c:300:GLN:N	2.48	0.44
1:d:425:SER:HB2	1:d:427:TYR:CE2	2.52	0.44
1:e:616:LEU:HD22	1:e:729:ILE:HD12	1.99	0.44
1:f:425:SER:HB2	1:f:427:TYR:CE2	2.52	0.44
1:g:282:TRP:CD1	1:g:398:LEU:HD12	2.52	0.44
1:i:554:ASN:HB3	1:k:464:LEU:HD23	1.99	0.44
1:j:587:GLN:NE2	1:k:490:ARG:O	2.50	0.44
1:l:282:TRP:NE1	1:l:398:LEU:HB2	2.32	0.44
1:m:282:TRP:CD1	1:m:398:LEU:HD12	2.52	0.44
1:m:406:LEU:HD21	1:m:412:PHE:HB2	2.00	0.44
1:m:464:LEU:HD23	1:n:554:ASN:HB3	1.99	0.44
1:o:224:SER:C	1:7:407:ARG:HD2	2.41	0.44
1:o:254:ASN:C	1:o:256:HIS:N	2.72	0.44
1:q:282:TRP:NE1	1:q:398:LEU:HB2	2.32	0.44
1:q:554:ASN:HB3	1:s:464:LEU:HD23	1.99	0.44
1:r:429:HIS:NE2	1:s:627:THR:HG22	2.32	0.44
1:s:238:ASP:OD1	1:s:239:ARG:N	2.49	0.44
1:u:616:LEU:HD22	1:u:729:ILE:HD12	2.00	0.44
1:u:695:LYS:HB3	1:v:401:PHE:HE1	1.82	0.44
1:w:299:TRP:CG	1:w:616:LEU:HD13	2.52	0.44
1:w:554:ASN:HB3	1:y:464:LEU:HD23	1.99	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:x:282:TRP:CD1	1:x:398:LEU:HD12	2.52	0.44
1:x:384:ASN:ND2	1:x:386:GLY:O	2.49	0.44
1:x:616:LEU:HD22	1:x:729:ILE:HD12	2.00	0.44
1:1:307:TRP:NE1	1:1:692:GLU:HG2	2.31	0.44
1:3:401:PHE:HE1	1:4:695:LYS:HB3	1.82	0.44
1:3:416:TYR:OH	1:3:644:HIS:O	2.33	0.44
1:4:407:ARG:C	1:4:409:GLY:N	2.76	0.44
1:4:425:SER:HB2	1:4:427:TYR:CE2	2.52	0.44
1:5:282:TRP:CD1	1:5:398:LEU:HD12	2.52	0.44
1:5:554:ASN:HB3	1:7:464:LEU:HD23	1.99	0.44
1:6:616:LEU:HD22	1:6:729:ILE:HD12	2.00	0.44
1:7:297:ARG:O	1:7:300:GLN:N	2.48	0.44
1:7:508:ALA:HB1	1:7:519:LEU:HD13	1.98	0.44
1:8:425:SER:HB2	1:8:427:TYR:CE2	2.52	0.44
1:A:587:GLN:NE2	1:G:490:ARG:O	2.50	0.44
1:B:554:ASN:HB3	1:L:464:LEU:HD23	1.99	0.44
1:C:616:LEU:HD22	1:C:729:ILE:HD12	2.00	0.44
1:D:282:TRP:CD1	1:D:398:LEU:HD12	2.52	0.44
1:D:416:TYR:OH	1:D:644:HIS:O	2.33	0.44
1:D:583:ALA:O	1:N:487:ARG:HD2	2.17	0.44
1:D:616:LEU:HD22	1:D:729:ILE:HD12	1.99	0.44
1:E:401:PHE:HE1	1:F:695:LYS:HB3	1.82	0.44
1:F:224:SER:O	1:G:407:ARG:HD2	2.17	0.44
1:F:238:ASP:OD1	1:F:239:ARG:N	2.49	0.44
1:I:529:HIS:CE1	1:I:534:GLU:HA	2.53	0.44
1:J:464:LEU:HD23	1:L:554:ASN:HB3	2.00	0.44
1:K:407:ARG:HD2	1:7:224:SER:C	2.41	0.44
1:K:557:TYR:HE1	1:K:562:LEU:HD11	1.82	0.44
1:N:238:ASP:OD1	1:N:239:ARG:N	2.49	0.44
1:S:461:GLN:H	1:S:461:GLN:CD	2.22	0.44
1:T:282:TRP:NE1	1:T:398:LEU:HB2	2.32	0.44
1:T:557:TYR:HE1	1:T:562:LEU:HD11	1.82	0.44
1:V:627:THR:HG22	1:X:429:HIS:NE2	2.32	0.44
1:V:695:LYS:HB3	1:e:401:PHE:HE1	1.82	0.44
1:X:529:HIS:CE1	1:X:534:GLU:HA	2.53	0.44
1:X:627:THR:HG22	1:e:429:HIS:NE2	2.33	0.44
1:Y:282:TRP:CD1	1:Y:398:LEU:HD12	2.52	0.44
1:Z:254:ASN:C	1:Z:256:HIS:N	2.72	0.44
1:Z:406:LEU:HD21	1:Z:412:PHE:HB2	2.00	0.44
1:a:238:ASP:OD1	1:a:239:ARG:N	2.49	0.44
1:b:282:TRP:NE1	1:b:398:LEU:HB2	2.32	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:d:616:LEU:HD22	1:d:729:ILE:HD12	2.00	0.44
1:d:695:LYS:HB3	1:l:401:PHE:HE1	1.82	0.44
1:h:238:ASP:OD1	1:h:239:ARG:N	2.49	0.44
1:h:508:ALA:HB1	1:h:519:LEU:HD13	1.97	0.44
1:i:282:TRP:CD1	1:i:398:LEU:HD12	2.52	0.44
1:j:529:HIS:CE1	1:j:534:GLU:HA	2.53	0.44
1:j:616:LEU:HD22	1:j:729:ILE:HD12	1.99	0.44
1:k:508:ALA:HB1	1:k:519:LEU:HD13	1.97	0.44
1:l:299:TRP:CG	1:l:616:LEU:HD13	2.52	0.44
1:n:282:TRP:CD1	1:n:398:LEU:HD12	2.52	0.44
1:p:406:LEU:HD21	1:p:412:PHE:HB2	2.00	0.44
1:r:282:TRP:CD1	1:r:398:LEU:HD12	2.52	0.44
1:r:529:HIS:CE1	1:r:534:GLU:HA	2.53	0.44
1:s:407:ARG:C	1:s:409:GLY:N	2.76	0.44
1:t:490:ARG:O	1:v:587:GLN:NE2	2.51	0.44
1:w:627:THR:HG22	1:y:429:HIS:NE2	2.32	0.44
1:w:627:THR:CG2	1:y:610:GLN:HE21	2.25	0.44
1:x:529:HIS:CE1	1:x:534:GLU:HA	2.53	0.44
1:x:587:GLN:NE2	1:y:490:ARG:O	2.51	0.44
1:z:282:TRP:NE1	1:z:398:LEU:HB2	2.32	0.44
1:2:407:ARG:C	1:2:409:GLY:N	2.76	0.44
1:3:385:ASN:ND2	1:4:532:ASP:OD1	2.47	0.44
1:3:425:SER:HB2	1:3:427:TYR:CE2	2.52	0.44
1:5:407:ARG:C	1:5:409:GLY:N	2.76	0.44
1:6:238:ASP:OD1	1:6:239:ARG:N	2.49	0.44
1:6:406:LEU:HD21	1:6:412:PHE:HB2	2.00	0.44
1:C:282:TRP:NE1	1:C:398:LEU:HB2	2.32	0.44
1:C:401:PHE:HE1	1:M:695:LYS:HB3	1.82	0.44
1:C:464:LEU:HD23	1:b:554:ASN:HB3	1.99	0.44
1:D:282:TRP:NE1	1:D:398:LEU:HB2	2.32	0.44
1:E:297:ARG:O	1:E:300:GLN:N	2.48	0.44
1:E:425:SER:HB2	1:E:427:TYR:CE2	2.52	0.44
1:F:406:LEU:HD21	1:F:412:PHE:HB2	2.00	0.44
1:G:328:GLN:NE2	1:G:333:LYS:HG3	2.23	0.44
1:G:587:GLN:NE2	1:I:490:ARG:O	2.51	0.44
1:H:407:ARG:C	1:H:409:GLY:N	2.76	0.44
1:I:224:SER:C	1:J:407:ARG:HD2	2.42	0.44
1:I:282:TRP:NE1	1:I:398:LEU:HB2	2.32	0.44
1:J:557:TYR:HE1	1:J:562:LEU:HD11	1.82	0.44
1:K:282:TRP:NE1	1:K:398:LEU:HB2	2.32	0.44
1:L:282:TRP:NE1	1:L:398:LEU:HB2	2.32	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:616:LEU:HD22	1:L:729:ILE:HD12	2.00	0.44
1:M:557:TYR:HE1	1:M:562:LEU:HD11	1.82	0.44
1:N:407:ARG:C	1:N:409:GLY:N	2.76	0.44
1:O:529:HIS:CE1	1:O:534:GLU:HA	2.53	0.44
1:P:529:HIS:CE1	1:P:534:GLU:HA	2.53	0.44
1:R:282:TRP:CD1	1:R:398:LEU:HD12	2.52	0.44
1:U:407:ARG:C	1:U:409:GLY:N	2.76	0.44
1:W:464:LEU:HD23	1:Y:554:ASN:HB3	1.99	0.44
1:Y:529:HIS:CE1	1:Y:534:GLU:HA	2.53	0.44
1:Z:529:HIS:CE1	1:Z:534:GLU:HA	2.53	0.44
1:a:406:LEU:HD21	1:a:412:PHE:HB2	2.00	0.44
1:c:583:ALA:O	1:o:487:ARG:HD2	2.17	0.44
1:d:282:TRP:NE1	1:d:398:LEU:HB2	2.32	0.44
1:d:407:ARG:C	1:d:409:GLY:N	2.76	0.44
1:f:529:HIS:CE1	1:f:534:GLU:HA	2.53	0.44
1:f:616:LEU:HD22	1:f:729:ILE:HD12	2.00	0.44
1:g:627:THR:HG22	1:h:429:HIS:NE2	2.32	0.44
1:i:583:ALA:O	1:j:487:ARG:HD2	2.17	0.44
1:i:587:GLN:NE2	1:j:490:ARG:O	2.51	0.44
1:k:238:ASP:OD1	1:k:239:ARG:N	2.49	0.44
1:m:529:HIS:CE1	1:m:534:GLU:HA	2.53	0.44
1:m:610:GLN:HE21	1:n:627:THR:CG2	2.25	0.44
1:n:529:HIS:CE1	1:n:534:GLU:HA	2.53	0.44
1:o:282:TRP:NE1	1:o:398:LEU:HB2	2.32	0.44
1:p:529:HIS:CE1	1:p:534:GLU:HA	2.53	0.44
1:q:282:TRP:CD1	1:q:398:LEU:HD12	2.52	0.44
1:q:464:LEU:HD23	1:r:554:ASN:HB3	1.99	0.44
1:s:557:TYR:HE1	1:s:562:LEU:HD11	1.82	0.44
1:u:583:ALA:O	1:v:487:ARG:HD2	2.18	0.44
1:w:583:ALA:O	1:x:487:ARG:HD2	2.17	0.44
1:w:628:ASP:OD2	1:y:425:SER:OG	2.30	0.44
1:1:282:TRP:NE1	1:1:398:LEU:HB2	2.32	0.44
1:3:282:TRP:CD1	1:3:398:LEU:HD12	2.52	0.44
1:4:529:HIS:CE1	1:4:534:GLU:HA	2.53	0.44
1:4:617:GLN:OE1	1:4:617:GLN:N	2.47	0.44
1:5:583:ALA:O	1:6:487:ARG:HD2	2.17	0.44
1:8:557:TYR:HE1	1:8:562:LEU:HD11	1.82	0.44
1:A:282:TRP:NE1	1:A:398:LEU:HB2	2.32	0.44
1:A:557:TYR:HE1	1:A:562:LEU:HD11	1.82	0.44
1:B:282:TRP:NE1	1:B:398:LEU:HB2	2.32	0.44
1:C:487:ARG:HD2	1:M:583:ALA:O	2.17	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:429:HIS:NE2	1:Q:627:THR:HG22	2.32	0.44
1:F:627:THR:HG22	1:Q:429:HIS:NE2	2.32	0.44
1:G:406:LEU:HD21	1:G:412:PHE:HB2	2.00	0.44
1:G:529:HIS:CE1	1:G:534:GLU:HA	2.53	0.44
1:I:238:ASP:OD1	1:I:239:ARG:N	2.49	0.44
1:I:307:TRP:NE1	1:I:692:GLU:HG2	2.31	0.44
1:J:406:LEU:HD21	1:J:412:PHE:HB2	2.00	0.44
1:K:487:ARG:HD2	1:8:583:ALA:O	2.17	0.44
1:K:583:ALA:O	1:a:487:ARG:HD2	2.17	0.44
1:M:406:LEU:HD21	1:M:412:PHE:HB2	2.00	0.44
1:M:490:ARG:O	1:b:587:GLN:NE2	2.51	0.44
1:N:695:LYS:HB3	1:P:401:PHE:HE1	1.82	0.44
1:O:282:TRP:CD1	1:O:398:LEU:HD12	2.52	0.44
1:O:401:PHE:HE1	1:n:695:LYS:HB3	1.82	0.44
1:O:487:ARG:HD2	1:n:583:ALA:O	2.17	0.44
1:S:429:HIS:NE2	1:U:627:THR:HG22	2.33	0.44
1:T:529:HIS:CE1	1:T:534:GLU:HA	2.53	0.44
1:V:416:TYR:OH	1:V:644:HIS:O	2.33	0.44
1:W:282:TRP:CD1	1:W:398:LEU:HD12	2.52	0.44
1:W:425:SER:HB2	1:W:427:TYR:CE2	2.52	0.44
1:W:695:LYS:HB3	1:Y:401:PHE:HE1	1.82	0.44
1:a:407:ARG:C	1:a:409:GLY:N	2.76	0.44
1:a:464:LEU:HD23	1:8:554:ASN:HB3	2.00	0.44
1:b:557:TYR:HE1	1:b:562:LEU:HD11	1.82	0.44
1:c:529:HIS:CE1	1:c:534:GLU:HA	2.53	0.44
1:c:587:GLN:NE2	1:o:490:ARG:O	2.51	0.44
1:c:627:THR:HG22	1:p:429:HIS:NE2	2.33	0.44
1:e:263:ASN:HB2	1:e:275:TYR:CE2	2.53	0.44
1:e:407:ARG:C	1:e:409:GLY:N	2.76	0.44
1:e:416:TYR:OH	1:e:644:HIS:O	2.33	0.44
1:e:425:SER:HB2	1:e:427:TYR:CE2	2.52	0.44
1:f:406:LEU:HD21	1:f:412:PHE:HB2	2.00	0.44
1:f:490:ARG:O	1:g:587:GLN:NE2	2.51	0.44
1:f:587:GLN:NE2	1:h:490:ARG:O	2.51	0.44
1:j:406:LEU:HD21	1:j:412:PHE:HB2	2.00	0.44
1:m:254:ASN:C	1:m:256:HIS:N	2.72	0.44
1:m:587:GLN:NE2	1:n:490:ARG:O	2.51	0.44
1:m:695:LYS:HB3	1:n:401:PHE:HE1	1.83	0.44
1:o:429:HIS:NE2	1:p:627:THR:HG22	2.32	0.44
1:o:557:TYR:HE1	1:o:562:LEU:HD11	1.82	0.44
1:q:627:THR:HG22	1:s:429:HIS:NE2	2.32	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:r:406:LEU:HD21	1:r:412:PHE:HB2	2.00	0.44
1:r:464:LEU:HD23	1:s:554:ASN:HB3	2.00	0.44
1:r:583:ALA:O	1:s:487:ARG:HD2	2.17	0.44
1:t:416:TYR:OH	1:t:644:HIS:O	2.33	0.44
1:v:224:SER:C	1:w:407:ARG:HD2	2.42	0.44
1:v:407:ARG:C	1:v:409:GLY:N	2.76	0.44
1:v:650:LEU:HD13	1:v:650:LEU:HA	1.87	0.44
1:w:263:ASN:HB2	1:w:275:TYR:CE2	2.53	0.44
1:y:416:TYR:OH	1:y:644:HIS:O	2.33	0.44
1:1:529:HIS:CE1	1:1:534:GLU:HA	2.53	0.44
1:1:557:TYR:HE1	1:1:562:LEU:HD11	1.82	0.44
1:2:425:SER:HB2	1:2:427:TYR:CE2	2.52	0.44
1:3:529:HIS:CE1	1:3:534:GLU:HA	2.53	0.44
1:4:282:TRP:CD1	1:4:398:LEU:HD12	2.52	0.44
1:4:406:LEU:HD21	1:4:412:PHE:HB2	2.00	0.44
1:5:587:GLN:NE2	1:6:490:ARG:O	2.51	0.44
1:6:282:TRP:NE1	1:6:398:LEU:HB2	2.32	0.44
1:6:695:LYS:HB3	1:7:401:PHE:HE1	1.82	0.44
1:7:425:SER:HB2	1:7:427:TYR:CE2	2.52	0.44
1:8:529:HIS:CE1	1:8:534:GLU:HA	2.53	0.44
1:A:312:LYS:O	1:A:418:PHE:N	2.44	0.44
1:B:557:TYR:HE1	1:B:562:LEU:HD11	1.82	0.44
1:B:627:THR:HG22	1:L:429:HIS:NE2	2.32	0.44
1:C:529:HIS:CE1	1:C:534:GLU:HA	2.53	0.44
1:E:529:HIS:CE1	1:E:534:GLU:HA	2.53	0.44
1:G:429:HIS:NE2	1:I:627:THR:HG22	2.33	0.44
1:G:461:GLN:H	1:G:461:GLN:CD	2.22	0.44
1:G:473:MET:HE3	1:G:473:MET:HB2	1.86	0.44
1:H:529:HIS:CE1	1:H:534:GLU:HA	2.53	0.44
1:H:557:TYR:HE1	1:H:562:LEU:HD11	1.82	0.44
1:I:407:ARG:C	1:I:409:GLY:N	2.76	0.44
1:K:416:TYR:OH	1:K:644:HIS:O	2.33	0.44
1:L:529:HIS:CE1	1:L:534:GLU:HA	2.53	0.44
1:M:407:ARG:HD2	1:c:224:SER:C	2.42	0.44
1:N:406:LEU:HD21	1:N:412:PHE:HB2	2.00	0.44
1:N:529:HIS:CE1	1:N:534:GLU:HA	2.53	0.44
1:N:587:GLN:NE2	1:P:490:ARG:O	2.51	0.44
1:R:282:TRP:NE1	1:R:398:LEU:HB2	2.32	0.44
1:R:464:LEU:HD23	1:S:554:ASN:HB3	1.99	0.44
1:R:490:ARG:O	1:U:587:GLN:NE2	2.51	0.44
1:R:583:ALA:O	1:S:487:ARG:HD2	2.17	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:T:401:PHE:HE1	1:l:695:LYS:HB3	1.82	0.44
1:T:406:LEU:HD21	1:T:412:PHE:HB2	2.00	0.44
1:V:429:HIS:NE2	1:e:627:THR:HG22	2.32	0.44
1:V:610:GLN:HE21	1:e:627:THR:CG2	2.25	0.44
1:W:587:GLN:NE2	1:Y:490:ARG:O	2.51	0.44
1:Y:406:LEU:HD21	1:Y:412:PHE:HB2	2.00	0.44
1:Z:587:GLN:NE2	1:4:490:ARG:O	2.51	0.44
1:a:529:HIS:CE1	1:a:534:GLU:HA	2.53	0.44
1:a:557:TYR:HE1	1:a:562:LEU:HD11	1.82	0.44
1:a:587:GLN:NE2	1:8:490:ARG:O	2.51	0.44
1:c:307:TRP:NE1	1:c:692:GLU:HG2	2.31	0.44
1:c:429:HIS:NE2	1:o:627:THR:HG22	2.32	0.44
1:c:487:ARG:HD2	1:p:583:ALA:O	2.17	0.44
1:f:282:TRP:NE1	1:f:398:LEU:HB2	2.32	0.44
1:h:224:SER:C	1:i:407:ARG:HD2	2.42	0.44
1:j:282:TRP:NE1	1:j:398:LEU:HB2	2.32	0.44
1:k:282:TRP:NE1	1:k:398:LEU:HB2	2.32	0.44
1:l:282:TRP:CD1	1:l:398:LEU:HD12	2.52	0.44
1:l:406:LEU:HD21	1:l:412:PHE:HB2	2.00	0.44
1:n:406:LEU:HD21	1:n:412:PHE:HB2	2.00	0.44
1:o:583:ALA:O	1:p:487:ARG:HD2	2.18	0.44
1:p:328:GLN:NE2	1:p:333:LYS:HG3	2.23	0.44
1:q:425:SER:HB2	1:q:427:TYR:CE2	2.52	0.44
1:s:529:HIS:CE1	1:s:534:GLU:HA	2.53	0.44
1:t:282:TRP:CD1	1:t:398:LEU:HD12	2.52	0.44
1:u:224:SER:C	1:2:407:ARG:HD2	2.43	0.44
1:u:529:HIS:CE1	1:u:534:GLU:HA	2.53	0.44
1:v:254:ASN:C	1:v:256:HIS:N	2.72	0.44
1:w:401:PHE:HE1	1:y:695:LYS:HB3	1.82	0.44
1:w:416:TYR:OH	1:w:644:HIS:O	2.33	0.44
1:w:425:SER:HB2	1:w:427:TYR:CE2	2.52	0.44
1:x:461:GLN:H	1:x:461:GLN:CD	2.22	0.44
1:z:583:ALA:O	1:1:487:ARG:HD2	2.18	0.44
1:1:263:ASN:HB2	1:1:275:TYR:CE2	2.53	0.44
1:1:406:LEU:HD21	1:1:412:PHE:HB2	2.00	0.44
1:2:282:TRP:NE1	1:2:398:LEU:HB2	2.32	0.44
1:3:247:THR:HG23	1:3:680:GLN:HE22	1.83	0.44
1:6:328:GLN:NE2	1:6:333:LYS:HG3	2.23	0.44
1:6:425:SER:HB2	1:6:427:TYR:CE2	2.52	0.44
1:B:282:TRP:CD1	1:B:398:LEU:HD12	2.52	0.44
1:B:529:HIS:CE1	1:B:534:GLU:HA	2.53	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:583:ALA:O	1:J:487:ARG:HD2	2.17	0.44
1:B:587:GLN:NE2	1:J:490:ARG:O	2.51	0.44
1:D:490:ARG:O	1:P:587:GLN:NE2	2.51	0.44
1:F:282:TRP:NE1	1:F:398:LEU:HB2	2.32	0.44
1:F:425:SER:HB2	1:F:427:TYR:CE2	2.52	0.44
1:H:583:ALA:O	1:W:487:ARG:HD2	2.18	0.44
1:I:312:LYS:O	1:I:418:PHE:N	2.44	0.44
1:J:297:ARG:O	1:J:300:GLN:N	2.48	0.44
1:J:583:ALA:O	1:L:487:ARG:HD2	2.17	0.44
1:J:695:LYS:HB3	1:L:401:PHE:HE1	1.82	0.44
1:K:490:ARG:O	1:8:587:GLN:NE2	2.51	0.44
1:K:529:HIS:CE1	1:K:534:GLU:HA	2.53	0.44
1:L:406:LEU:HD21	1:L:412:PHE:HB2	2.00	0.44
1:M:233:SER:OG	1:M:298:ASP:OD2	2.34	0.44
1:M:487:ARG:HD2	1:b:583:ALA:O	2.17	0.44
1:N:650:LEU:HD13	1:N:650:LEU:HA	1.86	0.44
1:O:247:THR:HG23	1:O:680:GLN:HE22	1.83	0.44
1:O:554:ASN:HB3	1:n:464:LEU:HD23	2.00	0.44
1:O:695:LYS:HB3	1:m:401:PHE:HE1	1.82	0.44
1:P:263:ASN:HB2	1:P:275:TYR:CE2	2.53	0.44
1:P:557:TYR:HE1	1:P:562:LEU:HD11	1.82	0.44
1:Q:557:TYR:HE1	1:Q:562:LEU:HD11	1.82	0.44
1:Q:616:LEU:HD22	1:Q:729:ILE:HD12	2.00	0.44
1:R:416:TYR:OH	1:R:644:HIS:O	2.33	0.44
1:R:695:LYS:HB3	1:S:401:PHE:HE1	1.82	0.44
1:S:529:HIS:CE1	1:S:534:GLU:HA	2.53	0.44
1:S:587:GLN:NE2	1:U:490:ARG:O	2.51	0.44
1:T:263:ASN:HB2	1:T:275:TYR:CE2	2.53	0.44
1:T:429:HIS:NE2	1:d:627:THR:HG22	2.32	0.44
1:T:587:GLN:NE2	1:d:490:ARG:O	2.51	0.44
1:W:406:LEU:HD21	1:W:412:PHE:HB2	2.00	0.44
1:W:529:HIS:CE1	1:W:534:GLU:HA	2.53	0.44
1:X:554:ASN:HB3	1:e:464:LEU:HD23	1.99	0.44
1:X:557:TYR:HE1	1:X:562:LEU:HD11	1.82	0.44
1:Z:401:PHE:HE1	1:3:695:LYS:HB3	1.82	0.44
1:Z:695:LYS:HB3	1:4:401:PHE:HE1	1.83	0.44
1:a:531:ASP:OD1	1:a:569:LYS:NZ	2.28	0.44
1:b:263:ASN:HB2	1:b:275:TYR:CE2	2.53	0.44
1:b:282:TRP:CD1	1:b:398:LEU:HD12	2.52	0.44
1:b:529:HIS:CE1	1:b:534:GLU:HA	2.53	0.44
1:c:312:LYS:O	1:c:418:PHE:N	2.44	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:d:263:ASN:HB2	1:d:275:TYR:CE2	2.53	0.44
1:f:464:LEU:HD23	1:h:554:ASN:HB3	2.00	0.44
1:h:529:HIS:CE1	1:h:534:GLU:HA	2.53	0.44
1:j:429:HIS:NE2	1:k:627:THR:HG22	2.32	0.44
1:k:529:HIS:CE1	1:k:534:GLU:HA	2.53	0.44
1:m:263:ASN:HB2	1:m:275:TYR:CE2	2.53	0.44
1:m:416:TYR:OH	1:m:644:HIS:O	2.33	0.44
1:n:282:TRP:NE1	1:n:398:LEU:HB2	2.32	0.44
1:q:406:LEU:HD21	1:q:412:PHE:HB2	2.00	0.44
1:q:529:HIS:CE1	1:q:534:GLU:HA	2.53	0.44
1:q:695:LYS:HB3	1:r:401:PHE:HE1	1.82	0.44
1:t:282:TRP:NE1	1:t:398:LEU:HB2	2.32	0.44
1:t:406:LEU:HD21	1:t:412:PHE:HB2	2.00	0.44
1:t:529:HIS:CE1	1:t:534:GLU:HA	2.53	0.44
1:u:461:GLN:H	1:u:461:GLN:CD	2.22	0.44
1:w:238:ASP:OD1	1:w:239:ARG:N	2.49	0.44
1:w:282:TRP:NE1	1:w:398:LEU:HB2	2.32	0.44
1:w:407:ARG:C	1:w:409:GLY:N	2.76	0.44
1:y:297:ARG:O	1:y:300:GLN:N	2.48	0.44
1:z:263:ASN:HB2	1:z:275:TYR:CE2	2.53	0.44
1:z:406:LEU:HD21	1:z:412:PHE:HB2	2.00	0.44
1:z:464:LEU:HD23	1:1:554:ASN:HB3	2.00	0.44
1:2:263:ASN:HB2	1:2:275:TYR:CE2	2.53	0.44
1:3:487:ARG:HD2	1:4:583:ALA:O	2.18	0.44
1:3:554:ASN:HB3	1:4:464:LEU:HD23	2.00	0.44
1:5:238:ASP:OD1	1:5:239:ARG:N	2.49	0.44
1:5:616:LEU:HD22	1:5:729:ILE:HD12	2.00	0.44
1:6:429:HIS:NE2	1:7:627:THR:HG22	2.32	0.44
1:8:263:ASN:HB2	1:8:275:TYR:CE2	2.53	0.44
1:A:401:PHE:HE1	1:I:695:LYS:HB3	1.83	0.44
1:A:481:LEU:HD11	1:G:636:LEU:HD11	2.00	0.44
1:A:529:HIS:CE1	1:A:534:GLU:HA	2.53	0.44
1:B:263:ASN:HB2	1:B:275:TYR:CE2	2.53	0.44
1:B:464:LEU:HD23	1:J:554:ASN:HB3	1.99	0.44
1:C:406:LEU:HD21	1:C:412:PHE:HB2	2.00	0.44
1:C:429:HIS:NE2	1:b:627:THR:HG22	2.32	0.44
1:D:529:HIS:CE1	1:D:534:GLU:HA	2.53	0.44
1:E:627:THR:HG22	1:F:429:HIS:NE2	2.32	0.44
1:F:224:SER:C	1:G:407:ARG:HD2	2.43	0.44
1:G:425:SER:HB2	1:G:427:TYR:CE2	2.52	0.44
1:M:554:ASN:HB3	1:b:464:LEU:HD23	1.99	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Q:238:ASP:OD1	1:Q:239:ARG:N	2.49	0.44
1:Q:263:ASN:HB2	1:Q:275:TYR:CE2	2.53	0.44
1:R:406:LEU:HD21	1:R:412:PHE:HB2	2.00	0.44
1:R:554:ASN:HB3	1:U:464:LEU:HD23	1.99	0.44
1:R:616:LEU:HD22	1:R:729:ILE:HD12	2.00	0.44
1:V:297:ARG:O	1:V:300:GLN:N	2.48	0.44
1:V:490:ARG:O	1:X:587:GLN:NE2	2.51	0.44
1:W:429:HIS:NE2	1:Y:627:THR:HG22	2.32	0.44
1:X:490:ARG:O	1:e:587:GLN:NE2	2.51	0.44
1:Y:297:ARG:O	1:Y:300:GLN:N	2.48	0.44
1:Z:263:ASN:HB2	1:Z:275:TYR:CE2	2.53	0.44
1:a:263:ASN:HB2	1:a:275:TYR:CE2	2.53	0.44
1:c:407:ARG:C	1:c:409:GLY:N	2.76	0.44
1:c:650:LEU:HD13	1:c:650:LEU:HA	1.87	0.44
1:e:238:ASP:OD1	1:e:239:ARG:N	2.49	0.44
1:e:282:TRP:NE1	1:e:398:LEU:HB2	2.32	0.44
1:e:406:LEU:HD21	1:e:412:PHE:HB2	2.00	0.44
1:g:263:ASN:HB2	1:g:275:TYR:CE2	2.53	0.44
1:h:282:TRP:NE1	1:h:398:LEU:HB2	2.32	0.44
1:j:416:TYR:OH	1:j:644:HIS:O	2.33	0.44
1:l:247:THR:HG23	1:l:680:GLN:HE22	1.83	0.44
1:l:263:ASN:HB2	1:l:275:TYR:CE2	2.53	0.44
1:l:529:HIS:CE1	1:l:534:GLU:HA	2.53	0.44
1:n:238:ASP:OD1	1:n:239:ARG:N	2.49	0.44
1:n:247:THR:HG23	1:n:680:GLN:HE22	1.83	0.44
1:o:407:ARG:C	1:o:409:GLY:N	2.76	0.44
1:o:464:LEU:HD23	1:p:554:ASN:HB3	1.99	0.44
1:p:461:GLN:H	1:p:461:GLN:CD	2.22	0.44
1:q:490:ARG:O	1:s:587:GLN:NE2	2.51	0.44
1:t:407:ARG:C	1:t:409:GLY:N	2.76	0.44
1:t:616:LEU:HD22	1:t:729:ILE:HD12	1.99	0.44
1:w:587:GLN:NE2	1:x:490:ARG:O	2.51	0.44
1:z:233:SER:OG	1:z:298:ASP:OD2	2.34	0.44
1:z:529:HIS:CE1	1:z:534:GLU:HA	2.53	0.44
1:z:627:THR:HG22	1:2:429:HIS:NE2	2.32	0.44
1:1:464:LEU:HD23	1:2:554:ASN:HB3	1.98	0.44
1:4:247:THR:HG23	1:4:680:GLN:HE22	1.83	0.44
1:5:263:ASN:HB2	1:5:275:TYR:CE2	2.53	0.44
1:5:557:TYR:HE1	1:5:562:LEU:HD11	1.82	0.44
1:7:529:HIS:CE1	1:7:534:GLU:HA	2.53	0.44
1:7:616:LEU:HD22	1:7:729:ILE:HD12	1.99	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:247:THR:HG23	1:A:680:GLN:HE22	1.83	0.44
1:A:407:ARG:C	1:A:409:GLY:N	2.76	0.44
1:C:407:ARG:C	1:C:409:GLY:N	2.76	0.44
1:C:490:ARG:O	1:M:587:GLN:NE2	2.51	0.44
1:E:263:ASN:HB2	1:E:275:TYR:CE2	2.53	0.44
1:K:587:GLN:NE2	1:a:490:ARG:O	2.51	0.44
1:L:407:ARG:C	1:L:409:GLY:N	2.76	0.44
1:L:436:LEU:HD21	1:L:738:LEU:HD22	2.00	0.44
1:M:297:ARG:O	1:M:300:GLN:N	2.48	0.44
1:N:247:THR:HG23	1:N:680:GLN:HE22	1.83	0.44
1:N:263:ASN:HB2	1:N:275:TYR:CE2	2.53	0.44
1:O:587:GLN:NE2	1:m:490:ARG:O	2.51	0.44
1:P:297:ARG:O	1:P:300:GLN:N	2.48	0.44
1:R:407:ARG:C	1:R:409:GLY:N	2.76	0.44
1:R:529:HIS:CE1	1:R:534:GLU:HA	2.53	0.44
1:S:407:ARG:C	1:S:409:GLY:N	2.76	0.44
1:T:312:LYS:O	1:T:418:PHE:N	2.44	0.44
1:T:416:TYR:OH	1:T:644:HIS:O	2.33	0.44
1:T:490:ARG:O	1:l:587:GLN:NE2	2.51	0.44
1:U:557:TYR:HE1	1:U:562:LEU:HD11	1.82	0.44
1:V:464:LEU:HD23	1:e:554:ASN:HB3	2.00	0.44
1:X:263:ASN:HB2	1:X:275:TYR:CE2	2.53	0.44
1:X:406:LEU:HD21	1:X:412:PHE:HB2	2.00	0.44
1:Z:416:TYR:OH	1:Z:644:HIS:O	2.33	0.44
1:Z:610:GLN:HE21	1:4:627:THR:CG2	2.25	0.44
1:a:247:THR:HG23	1:a:680:GLN:HE22	1.83	0.44
1:d:429:HIS:NE2	1:l:627:THR:HG22	2.33	0.44
1:g:490:ARG:O	1:h:587:GLN:NE2	2.50	0.44
1:h:416:TYR:OH	1:h:644:HIS:O	2.33	0.44
1:i:263:ASN:HB2	1:i:275:TYR:CE2	2.53	0.44
1:l:407:ARG:C	1:l:409:GLY:N	2.76	0.44
1:l:416:TYR:OH	1:l:644:HIS:O	2.33	0.44
1:o:247:THR:HG23	1:o:680:GLN:HE22	1.83	0.44
1:o:312:LYS:O	1:o:418:PHE:N	2.44	0.44
1:o:529:HIS:CE1	1:o:534:GLU:HA	2.53	0.44
1:q:587:GLN:NE2	1:r:490:ARG:O	2.51	0.44
1:t:247:THR:HG23	1:t:680:GLN:HE22	1.83	0.44
1:t:695:LYS:HB3	1:u:401:PHE:HE1	1.83	0.44
1:u:407:ARG:C	1:u:409:GLY:N	2.76	0.44
1:u:464:LEU:HD23	1:v:554:ASN:HB3	2.00	0.44
1:u:587:GLN:NE2	1:v:490:ARG:O	2.51	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:w:406:LEU:HD21	1:w:412:PHE:HB2	2.00	0.44
1:x:406:LEU:HD21	1:x:412:PHE:HB2	2.00	0.44
1:x:429:HIS:NE2	1:y:627:THR:HG22	2.33	0.44
1:x:557:TYR:HE1	1:x:562:LEU:HD11	1.82	0.44
1:z:247:THR:HG23	1:z:680:GLN:HE22	1.83	0.44
1:z:282:TRP:CD1	1:z:398:LEU:HD12	2.52	0.44
1:z:401:PHE:HE1	1:2:695:LYS:HB3	1.83	0.44
1:1:312:LYS:O	1:1:418:PHE:N	2.44	0.44
1:1:650:LEU:HD13	1:1:650:LEU:HA	1.86	0.44
1:4:238:ASP:OD1	1:4:239:ARG:N	2.49	0.44
1:4:282:TRP:NE1	1:4:398:LEU:HB2	2.32	0.44
1:4:557:TYR:HE1	1:4:562:LEU:HD11	1.82	0.44
1:6:464:LEU:HD23	1:7:554:ASN:HB3	1.99	0.44
1:6:529:HIS:CE1	1:6:534:GLU:HA	2.53	0.44
1:6:557:TYR:HE1	1:6:562:LEU:HD11	1.82	0.44
1:6:650:LEU:HA	1:6:650:LEU:HD13	1.86	0.44
1:7:247:THR:HG23	1:7:680:GLN:HE22	1.83	0.44
1:7:263:ASN:HB2	1:7:275:TYR:CE2	2.53	0.44
1:B:490:ARG:O	1:L:587:GLN:NE2	2.51	0.43
1:C:587:GLN:NE2	1:b:490:ARG:O	2.51	0.43
1:D:587:GLN:NE2	1:N:490:ARG:O	2.51	0.43
1:E:247:THR:HG23	1:E:680:GLN:HE22	1.83	0.43
1:E:554:ASN:HB3	1:F:464:LEU:HD23	1.99	0.43
1:E:616:LEU:HD22	1:E:729:ILE:HD12	2.00	0.43
1:F:263:ASN:HB2	1:F:275:TYR:CE2	2.53	0.43
1:F:297:ARG:O	1:F:300:GLN:N	2.48	0.43
1:F:529:HIS:CE1	1:F:534:GLU:HA	2.53	0.43
1:H:282:TRP:NE1	1:H:398:LEU:HB2	2.32	0.43
1:J:247:THR:HG23	1:J:680:GLN:HE22	1.83	0.43
1:J:587:GLN:NE2	1:L:490:ARG:O	2.51	0.43
1:M:263:ASN:HB2	1:M:275:TYR:CE2	2.53	0.43
1:O:627:THR:HG22	1:n:429:HIS:NE2	2.32	0.43
1:Q:529:HIS:CE1	1:Q:534:GLU:HA	2.53	0.43
1:R:247:THR:HG23	1:R:680:GLN:HE22	1.83	0.43
1:R:627:THR:HG22	1:U:429:HIS:NE2	2.32	0.43
1:V:587:GLN:NE2	1:e:490:ARG:O	2.51	0.43
1:Y:263:ASN:HB2	1:Y:275:TYR:CE2	2.53	0.43
1:Y:407:ARG:C	1:Y:409:GLY:N	2.76	0.43
1:a:650:LEU:HD13	1:a:650:LEU:HA	1.86	0.43
1:d:587:GLN:NE2	1:l:490:ARG:O	2.50	0.43
1:e:436:LEU:HD21	1:e:738:LEU:HD22	2.00	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:f:247:THR:HG23	1:f:680:GLN:HE22	1.83	0.43
1:g:436:LEU:HD21	1:g:738:LEU:HD22	2.00	0.43
1:h:247:THR:HG23	1:h:680:GLN:HE22	1.83	0.43
1:i:435:ARG:HD3	1:i:435:ARG:HA	1.85	0.43
1:j:247:THR:HG23	1:j:680:GLN:HE22	1.83	0.43
1:k:247:THR:HG23	1:k:680:GLN:HE22	1.83	0.43
1:k:718:ASN:ND2	1:k:722:THR:HB	2.31	0.43
1:n:263:ASN:HB2	1:n:275:TYR:CE2	2.53	0.43
1:o:406:LEU:HD21	1:o:412:PHE:HB2	2.00	0.43
1:p:425:SER:HB2	1:p:427:TYR:CE2	2.52	0.43
1:r:297:ARG:O	1:r:300:GLN:N	2.48	0.43
1:r:407:ARG:C	1:r:409:GLY:N	2.76	0.43
1:w:385:ASN:ND2	1:y:532:ASP:OD1	2.48	0.43
1:x:263:ASN:HB2	1:x:275:TYR:CE2	2.53	0.43
1:y:557:TYR:HE1	1:y:562:LEU:HD11	1.82	0.43
1:z:407:ARG:C	1:z:409:GLY:N	2.76	0.43
1:z:436:LEU:HD21	1:z:738:LEU:HD22	2.00	0.43
1:z:587:GLN:NE2	1:1:490:ARG:O	2.51	0.43
1:1:587:GLN:NE2	1:2:490:ARG:O	2.51	0.43
1:1:616:LEU:HD22	1:1:729:ILE:HD12	2.00	0.43
1:5:529:HIS:CE1	1:5:534:GLU:HA	2.53	0.43
1:6:263:ASN:HB2	1:6:275:TYR:CE2	2.53	0.43
1:A:270:THR:HG23	1:A:272:ASP:H	1.84	0.43
1:A:406:LEU:HD21	1:A:412:PHE:HB2	2.00	0.43
1:C:436:LEU:HD21	1:C:738:LEU:HD22	2.00	0.43
1:E:282:TRP:CD1	1:E:398:LEU:HD12	2.52	0.43
1:F:328:GLN:NE2	1:F:333:LYS:HG3	2.23	0.43
1:F:557:TYR:HE1	1:F:562:LEU:HD11	1.82	0.43
1:H:587:GLN:NE2	1:W:490:ARG:O	2.51	0.43
1:J:263:ASN:HB2	1:J:275:TYR:CE2	2.53	0.43
1:K:406:LEU:HD21	1:K:412:PHE:HB2	2.00	0.43
1:M:247:THR:HG23	1:M:680:GLN:HE22	1.83	0.43
1:N:616:LEU:HD22	1:N:729:ILE:HD12	2.00	0.43
1:P:282:TRP:NE1	1:P:398:LEU:HB2	2.32	0.43
1:S:263:ASN:HB2	1:S:275:TYR:CE2	2.53	0.43
1:T:247:THR:HG23	1:T:680:GLN:HE22	1.83	0.43
1:T:583:ALA:O	1:d:487:ARG:HD2	2.17	0.43
1:T:616:LEU:HD22	1:T:729:ILE:HD12	2.00	0.43
1:W:263:ASN:HB2	1:W:275:TYR:CE2	2.53	0.43
1:W:270:THR:HG23	1:W:272:ASP:H	1.84	0.43
1:a:616:LEU:HD22	1:a:729:ILE:HD12	2.00	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:c:401:PHE:HE1	1:p:695:LYS:HB3	1.82	0.43
1:d:292:CYS:SG	1:d:365:LEU:HB2	2.59	0.43
1:f:416:TYR:OH	1:f:644:HIS:O	2.33	0.43
1:g:529:HIS:CE1	1:g:534:GLU:HA	2.53	0.43
1:i:436:LEU:HD21	1:i:738:LEU:HD22	2.00	0.43
1:j:263:ASN:HB2	1:j:275:TYR:CE2	2.53	0.43
1:k:416:TYR:OH	1:k:644:HIS:O	2.33	0.43
1:k:616:LEU:HD22	1:k:729:ILE:HD12	2.00	0.43
1:l:436:LEU:HD21	1:l:738:LEU:HD22	2.00	0.43
1:m:461:GLN:H	1:m:461:GLN:CD	2.22	0.43
1:m:616:LEU:HD22	1:m:729:ILE:HD12	2.00	0.43
1:o:270:THR:HG23	1:o:272:ASP:H	1.84	0.43
1:q:416:TYR:OH	1:q:644:HIS:O	2.33	0.43
1:r:263:ASN:HB2	1:r:275:TYR:CE2	2.53	0.43
1:r:695:LYS:HB3	1:s:401:PHE:HE1	1.82	0.43
1:s:282:TRP:NE1	1:s:398:LEU:HB2	2.32	0.43
1:v:233:SER:OG	1:v:298:ASP:OD2	2.33	0.43
1:v:263:ASN:HB2	1:v:275:TYR:CE2	2.53	0.43
1:v:270:THR:HG23	1:v:272:ASP:H	1.84	0.43
1:v:557:TYR:HE1	1:v:562:LEU:HD11	1.82	0.43
1:w:436:LEU:HD21	1:w:738:LEU:HD22	2.01	0.43
1:x:247:THR:HG23	1:x:680:GLN:HE22	1.83	0.43
1:z:416:TYR:OH	1:z:644:HIS:O	2.33	0.43
1:1:247:THR:HG23	1:1:680:GLN:HE22	1.83	0.43
1:3:490:ARG:O	1:4:587:GLN:NE2	2.51	0.43
1:3:627:THR:HG22	1:4:429:HIS:NE2	2.32	0.43
1:4:436:LEU:HD21	1:4:738:LEU:HD22	2.00	0.43
1:7:282:TRP:CD1	1:7:398:LEU:HD12	2.52	0.43
1:8:282:TRP:NE1	1:8:398:LEU:HB2	2.32	0.43
1:8:297:ARG:O	1:8:300:GLN:N	2.48	0.43
1:A:292:CYS:SG	1:A:365:LEU:HB2	2.59	0.43
1:A:490:ARG:O	1:I:587:GLN:NE2	2.52	0.43
1:A:554:ASN:HB3	1:I:464:LEU:HD23	2.00	0.43
1:A:695:LYS:HB3	1:G:401:PHE:HE1	1.83	0.43
1:B:270:THR:HG23	1:B:272:ASP:H	1.84	0.43
1:B:297:ARG:O	1:B:300:GLN:N	2.48	0.43
1:D:407:ARG:C	1:D:409:GLY:N	2.76	0.43
1:G:557:TYR:HE1	1:G:562:LEU:HD11	1.82	0.43
1:H:464:LEU:HD23	1:W:554:ASN:HB3	2.00	0.43
1:I:282:TRP:CD1	1:I:398:LEU:HD12	2.52	0.43
1:I:650:LEU:HD13	1:I:650:LEU:HA	1.86	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:238:ASP:OD1	1:J:239:ARG:N	2.49	0.43
1:K:292:CYS:SG	1:K:365:LEU:HB2	2.59	0.43
1:N:292:CYS:SG	1:N:365:LEU:HB2	2.59	0.43
1:O:490:ARG:O	1:n:587:GLN:NE2	2.51	0.43
1:P:292:CYS:SG	1:P:365:LEU:HB2	2.59	0.43
1:S:718:ASN:ND2	1:S:722:THR:HB	2.31	0.43
1:T:436:LEU:HD21	1:T:738:LEU:HD22	2.00	0.43
1:V:270:THR:HG23	1:V:272:ASP:H	1.84	0.43
1:V:407:ARG:C	1:V:409:GLY:N	2.76	0.43
1:V:425:SER:OG	1:e:628:ASP:OD2	2.30	0.43
1:V:557:TYR:HE1	1:V:562:LEU:HD11	1.82	0.43
1:W:416:TYR:OH	1:W:644:HIS:O	2.33	0.43
1:W:436:LEU:HD21	1:W:738:LEU:HD22	2.00	0.43
1:X:247:THR:HG23	1:X:680:GLN:HE22	1.83	0.43
1:Z:490:ARG:O	1:3:587:GLN:NE2	2.51	0.43
1:Z:616:LEU:HD22	1:Z:729:ILE:HD12	2.00	0.43
1:a:292:CYS:SG	1:a:365:LEU:HB2	2.59	0.43
1:b:270:THR:HG23	1:b:272:ASP:H	1.84	0.43
1:b:292:CYS:SG	1:b:365:LEU:HB2	2.59	0.43
1:b:718:ASN:ND2	1:b:722:THR:HB	2.31	0.43
1:c:282:TRP:CD1	1:c:398:LEU:HD12	2.52	0.43
1:f:263:ASN:HB2	1:f:275:TYR:CE2	2.53	0.43
1:f:436:LEU:HD21	1:f:738:LEU:HD22	2.01	0.43
1:g:616:LEU:HD22	1:g:729:ILE:HD12	2.00	0.43
1:h:557:TYR:HE1	1:h:562:LEU:HD11	1.82	0.43
1:h:616:LEU:HD22	1:h:729:ILE:HD12	2.00	0.43
1:i:401:PHE:HE1	1:k:695:LYS:HB3	1.82	0.43
1:i:529:HIS:CE1	1:i:534:GLU:HA	2.53	0.43
1:i:616:LEU:HD22	1:i:729:ILE:HD12	2.00	0.43
1:l:233:SER:OG	1:l:298:ASP:OD2	2.34	0.43
1:n:436:LEU:HD21	1:n:738:LEU:HD22	2.00	0.43
1:n:557:TYR:HE1	1:n:562:LEU:HD11	1.82	0.43
1:o:587:GLN:NE2	1:p:490:ARG:O	2.51	0.43
1:q:263:ASN:HB2	1:q:275:TYR:CE2	2.53	0.43
1:q:270:THR:HG23	1:q:272:ASP:H	1.84	0.43
1:r:292:CYS:SG	1:r:365:LEU:HB2	2.59	0.43
1:t:627:THR:HG22	1:v:429:HIS:NE2	2.32	0.43
1:u:263:ASN:HB2	1:u:275:TYR:CE2	2.53	0.43
1:u:406:LEU:HD21	1:u:412:PHE:HB2	2.00	0.43
1:w:490:ARG:O	1:y:587:GLN:NE2	2.51	0.43
1:1:416:TYR:OH	1:1:644:HIS:O	2.33	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1:436:LEU:HD21	1:1:738:LEU:HD22	2.00	0.43
1:2:292:CYS:SG	1:2:365:LEU:HB2	2.59	0.43
1:4:233:SER:OG	1:4:298:ASP:OD2	2.34	0.43
1:5:695:LYS:HB3	1:6:401:PHE:HE1	1.82	0.43
1:6:247:THR:HG23	1:6:680:GLN:HE22	1.83	0.43
1:6:292:CYS:SG	1:6:365:LEU:HB2	2.59	0.43
1:6:297:ARG:O	1:6:300:GLN:N	2.48	0.43
1:8:247:THR:HG23	1:8:680:GLN:HE22	1.83	0.43
1:8:292:CYS:SG	1:8:365:LEU:HB2	2.59	0.43
1:A:425:SER:OG	1:G:628:ASP:OD2	2.32	0.43
1:B:292:CYS:SG	1:B:365:LEU:HB2	2.59	0.43
1:D:292:CYS:SG	1:D:365:LEU:HB2	2.59	0.43
1:D:406:LEU:HD21	1:D:412:PHE:HB2	2.00	0.43
1:D:464:LEU:HD23	1:N:554:ASN:HB3	1.99	0.43
1:E:587:GLN:NE2	1:Q:490:ARG:O	2.51	0.43
1:F:247:THR:HG23	1:F:680:GLN:HE22	1.83	0.43
1:F:292:CYS:SG	1:F:365:LEU:HB2	2.59	0.43
1:F:401:PHE:HE1	1:Q:695:LYS:HB3	1.83	0.43
1:F:650:LEU:HD13	1:F:650:LEU:HA	1.86	0.43
1:G:263:ASN:HB2	1:G:275:TYR:CE2	2.53	0.43
1:H:247:THR:HG23	1:H:680:GLN:HE22	1.83	0.43
1:K:407:ARG:C	1:K:409:GLY:N	2.76	0.43
1:O:406:LEU:HD21	1:O:412:PHE:HB2	2.00	0.43
1:R:628:ASP:OD2	1:U:425:SER:OG	2.30	0.43
1:T:407:ARG:C	1:T:409:GLY:N	2.76	0.43
1:U:263:ASN:HB2	1:U:275:TYR:CE2	2.53	0.43
1:U:270:THR:HG23	1:U:272:ASP:H	1.84	0.43
1:U:292:CYS:SG	1:U:365:LEU:HB2	2.59	0.43
1:U:436:LEU:HD21	1:U:738:LEU:HD22	2.00	0.43
1:V:247:THR:HG23	1:V:680:GLN:HE22	1.83	0.43
1:W:407:ARG:C	1:W:409:GLY:N	2.76	0.43
1:Y:292:CYS:SG	1:Y:365:LEU:HB2	2.59	0.43
1:Z:461:GLN:H	1:Z:461:GLN:CD	2.22	0.43
1:a:429:HIS:NE2	1:8:627:THR:HG22	2.32	0.43
1:b:297:ARG:O	1:b:300:GLN:N	2.48	0.43
1:c:616:LEU:HD22	1:c:729:ILE:HD12	1.99	0.43
1:f:554:ASN:HB3	1:g:464:LEU:HD23	1.99	0.43
1:g:401:PHE:HE1	1:h:695:LYS:HB3	1.82	0.43
1:h:233:SER:OG	1:h:298:ASP:OD2	2.34	0.43
1:i:490:ARG:O	1:k:587:GLN:NE2	2.51	0.43
1:j:292:CYS:SG	1:j:365:LEU:HB2	2.59	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:j:436:LEU:HD21	1:j:738:LEU:HD22	2.01	0.43
1:l:616:LEU:HD22	1:l:729:ILE:HD12	1.99	0.43
1:o:292:CYS:SG	1:o:365:LEU:HB2	2.59	0.43
1:p:263:ASN:HB2	1:p:275:TYR:CE2	2.53	0.43
1:q:238:ASP:OD1	1:q:239:ARG:N	2.49	0.43
1:q:436:LEU:HD21	1:q:738:LEU:HD22	2.00	0.43
1:s:247:THR:HG23	1:s:680:GLN:HE22	1.83	0.43
1:t:554:ASN:HB3	1:v:464:LEU:HD23	1.99	0.43
1:u:238:ASP:OD1	1:u:239:ARG:N	2.49	0.43
1:u:270:THR:HG23	1:u:272:ASP:H	1.84	0.43
1:y:270:THR:HG23	1:y:272:ASP:H	1.84	0.43
1:y:436:LEU:HD21	1:y:738:LEU:HD22	2.00	0.43
1:2:718:ASN:ND2	1:2:722:THR:HB	2.31	0.43
1:4:263:ASN:HB2	1:4:275:TYR:CE2	2.53	0.43
1:5:292:CYS:SG	1:5:365:LEU:HB2	2.59	0.43
1:5:464:LEU:HD23	1:6:554:ASN:HB3	2.00	0.43
1:A:487:ARG:HD2	1:I:583:ALA:O	2.18	0.43
1:B:718:ASN:ND2	1:B:722:THR:HB	2.31	0.43
1:C:263:ASN:HB2	1:C:275:TYR:CE2	2.53	0.43
1:C:557:TYR:HE1	1:C:562:LEU:HD11	1.82	0.43
1:G:247:THR:HG23	1:G:680:GLN:HE22	1.83	0.43
1:H:263:ASN:HB2	1:H:275:TYR:CE2	2.53	0.43
1:H:401:PHE:HE1	1:Y:695:LYS:HB3	1.83	0.43
1:J:292:CYS:SG	1:J:365:LEU:HB2	2.59	0.43
1:K:464:LEU:HD23	1:a:554:ASN:HB3	1.99	0.43
1:K:650:LEU:HD13	1:K:650:LEU:HA	1.86	0.43
1:L:263:ASN:HB2	1:L:275:TYR:CE2	2.53	0.43
1:M:238:ASP:OD1	1:M:239:ARG:N	2.49	0.43
1:M:292:CYS:SG	1:M:365:LEU:HB2	2.59	0.43
1:M:529:HIS:CE1	1:M:534:GLU:HA	2.53	0.43
1:P:247:THR:HG23	1:P:680:GLN:HE22	1.83	0.43
1:P:616:LEU:HD22	1:P:729:ILE:HD12	1.99	0.43
1:Q:292:CYS:SG	1:Q:365:LEU:HB2	2.59	0.43
1:S:406:LEU:HD21	1:S:412:PHE:HB2	2.00	0.43
1:S:436:LEU:HD21	1:S:738:LEU:HD22	2.00	0.43
1:T:650:LEU:HD13	1:T:650:LEU:HA	1.87	0.43
1:T:695:LYS:HB3	1:d:401:PHE:HE1	1.82	0.43
1:V:436:LEU:HD21	1:V:738:LEU:HD22	2.01	0.43
1:W:238:ASP:OD1	1:W:239:ARG:N	2.49	0.43
1:Z:233:SER:OG	1:Z:298:ASP:OD2	2.34	0.43
1:Z:464:LEU:HD23	1:4:554:ASN:HB3	2.00	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:c:436:LEU:HD21	1:c:738:LEU:HD22	2.00	0.43
1:c:490:ARG:O	1:p:587:GLN:NE2	2.52	0.43
1:d:436:LEU:HD21	1:d:738:LEU:HD22	2.00	0.43
1:d:504:ALA:O	1:d:508:ALA:HB2	2.19	0.43
1:d:718:ASN:ND2	1:d:722:THR:HB	2.31	0.43
1:f:292:CYS:SG	1:f:365:LEU:HB2	2.59	0.43
1:h:718:ASN:ND2	1:h:722:THR:HB	2.31	0.43
1:k:557:TYR:HE1	1:k:562:LEU:HD11	1.82	0.43
1:p:557:TYR:HE1	1:p:562:LEU:HD11	1.82	0.43
1:r:247:THR:HG23	1:r:680:GLN:HE22	1.83	0.43
1:r:587:GLN:NE2	1:s:490:ARG:O	2.50	0.43
1:s:263:ASN:HB2	1:s:275:TYR:CE2	2.53	0.43
1:u:436:LEU:HD21	1:u:738:LEU:HD22	2.00	0.43
1:v:292:CYS:SG	1:v:365:LEU:HB2	2.59	0.43
1:v:436:LEU:HD21	1:v:738:LEU:HD22	2.01	0.43
1:y:247:THR:HG23	1:y:680:GLN:HE22	1.83	0.43
1:2:436:LEU:HD21	1:2:738:LEU:HD22	2.01	0.43
1:3:233:SER:OG	1:3:298:ASP:OD2	2.34	0.43
1:3:406:LEU:HD21	1:3:412:PHE:HB2	2.00	0.43
1:5:718:ASN:ND2	1:5:722:THR:HB	2.31	0.43
1:A:504:ALA:O	1:A:508:ALA:HB2	2.19	0.43
1:B:247:THR:HG23	1:B:680:GLN:HE22	1.83	0.43
1:C:270:THR:HG23	1:C:272:ASP:H	1.84	0.43
1:D:263:ASN:HB2	1:D:275:TYR:CE2	2.53	0.43
1:D:270:THR:HG23	1:D:272:ASP:H	1.84	0.43
1:D:436:LEU:HD21	1:D:738:LEU:HD22	2.00	0.43
1:F:407:ARG:C	1:F:409:GLY:N	2.76	0.43
1:F:718:ASN:ND2	1:F:722:THR:HB	2.31	0.43
1:G:292:CYS:SG	1:G:365:LEU:HB2	2.59	0.43
1:G:434:ASP:HB2	1:G:478:LYS:HE2	2.01	0.43
1:H:434:ASP:HB2	1:H:478:LYS:HE2	2.01	0.43
1:I:436:LEU:HD21	1:I:738:LEU:HD22	2.01	0.43
1:I:616:LEU:HD22	1:I:729:ILE:HD12	2.00	0.43
1:K:436:LEU:HD21	1:K:738:LEU:HD22	2.00	0.43
1:L:270:THR:HG23	1:L:272:ASP:H	1.84	0.43
1:L:504:ALA:O	1:L:508:ALA:HB2	2.19	0.43
1:L:557:TYR:HE1	1:L:562:LEU:HD11	1.82	0.43
1:R:270:THR:HG23	1:R:272:ASP:H	1.84	0.43
1:R:434:ASP:HB2	1:R:478:LYS:HE2	2.01	0.43
1:S:270:THR:HG23	1:S:272:ASP:H	1.84	0.43
1:S:292:CYS:SG	1:S:365:LEU:HB2	2.59	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:V:406:LEU:HD21	1:V:412:PHE:HB2	2.00	0.43
1:W:616:LEU:HD22	1:W:729:ILE:HD12	2.00	0.43
1:X:436:LEU:HD21	1:X:738:LEU:HD22	2.00	0.43
1:Y:247:THR:HG23	1:Y:680:GLN:HE22	1.83	0.43
1:Z:292:CYS:SG	1:Z:365:LEU:HB2	2.59	0.43
1:Z:353:LEU:HG	1:Z:401:PHE:HE2	1.84	0.43
1:b:406:LEU:HD21	1:b:412:PHE:HB2	2.00	0.43
1:d:270:THR:HG23	1:d:272:ASP:H	1.84	0.43
1:d:529:HIS:CE1	1:d:534:GLU:HA	2.53	0.43
1:g:435:ARG:HD3	1:g:435:ARG:HA	1.85	0.43
1:k:233:SER:OG	1:k:298:ASP:OD2	2.34	0.43
1:m:292:CYS:SG	1:m:365:LEU:HB2	2.59	0.43
1:n:434:ASP:HB2	1:n:478:LYS:HE2	2.01	0.43
1:n:616:LEU:HD22	1:n:729:ILE:HD12	2.00	0.43
1:p:247:THR:HG23	1:p:680:GLN:HE22	1.83	0.43
1:p:292:CYS:SG	1:p:365:LEU:HB2	2.59	0.43
1:p:434:ASP:HB2	1:p:478:LYS:HE2	2.01	0.43
1:q:292:CYS:SG	1:q:365:LEU:HB2	2.59	0.43
1:q:407:ARG:C	1:q:409:GLY:N	2.76	0.43
1:q:616:LEU:HD22	1:q:729:ILE:HD12	2.00	0.43
1:s:434:ASP:HB2	1:s:478:LYS:HE2	2.01	0.43
1:t:270:THR:HG23	1:t:272:ASP:H	1.84	0.43
1:t:436:LEU:HD21	1:t:738:LEU:HD22	2.00	0.43
1:t:628:ASP:OD2	1:v:425:SER:OG	2.30	0.43
1:u:292:CYS:SG	1:u:365:LEU:HB2	2.59	0.43
1:v:434:ASP:HB2	1:v:478:LYS:HE2	2.01	0.43
1:y:406:LEU:HD21	1:y:412:PHE:HB2	2.00	0.43
1:y:529:HIS:CE1	1:y:534:GLU:HA	2.53	0.43
1:z:616:LEU:HD22	1:z:729:ILE:HD12	2.00	0.43
1:1:407:ARG:C	1:1:409:GLY:N	2.76	0.43
1:2:270:THR:HG23	1:2:272:ASP:H	1.84	0.43
1:2:504:ALA:O	1:2:508:ALA:HB2	2.19	0.43
1:2:529:HIS:CE1	1:2:534:GLU:HA	2.53	0.43
1:2:622:ALA:HB3	1:2:635:PRO:HG3	2.01	0.43
1:5:490:ARG:O	1:7:587:GLN:NE2	2.51	0.43
1:7:312:LYS:O	1:7:418:PHE:N	2.44	0.43
1:8:616:LEU:HD22	1:8:729:ILE:HD12	1.99	0.43
1:A:353:LEU:HG	1:A:401:PHE:HE2	1.84	0.43
1:C:353:LEU:HG	1:C:401:PHE:HE2	1.84	0.43
1:C:504:ALA:O	1:C:508:ALA:HB2	2.19	0.43
1:D:434:ASP:HB2	1:D:478:LYS:HE2	2.01	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:436:LEU:HD21	1:H:738:LEU:HD22	2.00	0.43
1:H:490:ARG:O	1:Y:587:GLN:NE2	2.51	0.43
1:H:622:ALA:HB3	1:H:635:PRO:HG3	2.01	0.43
1:H:628:ASP:OD2	1:Y:425:SER:OG	2.30	0.43
1:K:263:ASN:HB2	1:K:275:TYR:CE2	2.53	0.43
1:K:270:THR:HG23	1:K:272:ASP:H	1.84	0.43
1:L:353:LEU:HG	1:L:401:PHE:HE2	1.84	0.43
1:N:282:TRP:NE1	1:N:398:LEU:HB2	2.32	0.43
1:N:429:HIS:NE2	1:P:627:THR:HG22	2.32	0.43
1:P:353:LEU:HG	1:P:401:PHE:HE2	1.84	0.43
1:Q:718:ASN:ND2	1:Q:722:THR:HB	2.31	0.43
1:R:436:LEU:HD21	1:R:738:LEU:HD22	2.00	0.43
1:S:238:ASP:OD1	1:S:239:ARG:N	2.49	0.43
1:U:434:ASP:HB2	1:U:478:LYS:HE2	2.01	0.43
1:U:512:HIS:CE1	1:U:515:GLY:HA2	2.54	0.43
1:V:353:LEU:HG	1:V:401:PHE:HE2	1.84	0.43
1:V:529:HIS:CE1	1:V:534:GLU:HA	2.53	0.43
1:W:292:CYS:SG	1:W:365:LEU:HB2	2.59	0.43
1:Z:270:THR:HG23	1:Z:272:ASP:H	1.84	0.43
1:a:282:TRP:NE1	1:a:398:LEU:HB2	2.32	0.43
1:b:247:THR:HG23	1:b:680:GLN:HE22	1.83	0.43
1:c:628:ASP:OD2	1:p:425:SER:OG	2.30	0.43
1:d:406:LEU:HD21	1:d:412:PHE:HB2	2.00	0.43
1:d:464:LEU:HD23	1:l:554:ASN:HB3	2.00	0.43
1:d:622:ALA:HB3	1:d:635:PRO:HG3	2.01	0.43
1:e:292:CYS:SG	1:e:365:LEU:HB2	2.59	0.43
1:j:610:GLN:HE21	1:k:627:THR:CG2	2.25	0.43
1:j:622:ALA:HB3	1:j:635:PRO:HG3	2.01	0.43
1:k:270:THR:HG23	1:k:272:ASP:H	1.84	0.43
1:m:270:THR:HG23	1:m:272:ASP:H	1.84	0.43
1:m:353:LEU:HG	1:m:401:PHE:HE2	1.84	0.43
1:m:504:ALA:O	1:m:508:ALA:HB2	2.19	0.43
1:n:270:THR:HG23	1:n:272:ASP:H	1.84	0.43
1:n:292:CYS:SG	1:n:365:LEU:HB2	2.59	0.43
1:o:353:LEU:HG	1:o:401:PHE:HE2	1.84	0.43
1:s:436:LEU:HD21	1:s:738:LEU:HD22	2.00	0.43
1:t:401:PHE:HE1	1:v:695:LYS:HB3	1.82	0.43
1:t:434:ASP:HB2	1:t:478:LYS:HE2	2.01	0.43
1:v:529:HIS:CE1	1:v:534:GLU:HA	2.53	0.43
1:w:270:THR:HG23	1:w:272:ASP:H	1.84	0.43
1:w:292:CYS:SG	1:w:365:LEU:HB2	2.59	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:x:650:LEU:HD13	1:x:650:LEU:HA	1.87	0.43
1:y:353:LEU:HG	1:y:401:PHE:HE2	1.84	0.43
1:y:407:ARG:C	1:y:409:GLY:N	2.76	0.43
1:1:353:LEU:HG	1:1:401:PHE:HE2	1.84	0.43
1:2:406:LEU:HD21	1:2:412:PHE:HB2	2.00	0.43
1:4:434:ASP:HB2	1:4:478:LYS:HE2	2.01	0.43
1:5:401:PHE:HE1	1:7:695:LYS:HB3	1.83	0.43
1:A:434:ASP:HB2	1:A:478:LYS:HE2	2.01	0.43
1:A:627:THR:HG22	1:I:429:HIS:NE2	2.33	0.43
1:A:627:THR:CG2	1:I:610:GLN:HE21	2.26	0.43
1:B:406:LEU:HD21	1:B:412:PHE:HB2	2.00	0.43
1:E:695:LYS:HB3	1:Q:401:PHE:HE1	1.82	0.43
1:F:353:LEU:HG	1:F:401:PHE:HE2	1.84	0.43
1:G:695:LYS:HB3	1:I:401:PHE:HE1	1.83	0.43
1:H:292:CYS:SG	1:H:365:LEU:HB2	2.59	0.43
1:H:406:LEU:HD21	1:H:412:PHE:HB2	2.00	0.43
1:J:270:THR:HG23	1:J:272:ASP:H	1.84	0.43
1:J:529:HIS:CE1	1:J:534:GLU:HA	2.53	0.43
1:K:434:ASP:HB2	1:K:478:LYS:HE2	2.01	0.43
1:O:233:SER:OG	1:O:298:ASP:OD2	2.34	0.43
1:O:263:ASN:HB2	1:O:275:TYR:CE2	2.53	0.43
1:O:622:ALA:HB3	1:O:635:PRO:HG3	2.01	0.43
1:P:436:LEU:HD21	1:P:738:LEU:HD22	2.00	0.43
1:Q:512:HIS:CE1	1:Q:515:GLY:HA2	2.54	0.43
1:R:329:ASN:O	1:R:332:THR:OG1	2.21	0.43
1:R:401:PHE:HE1	1:U:695:LYS:HB3	1.82	0.43
1:T:353:LEU:HG	1:T:401:PHE:HE2	1.84	0.43
1:U:435:ARG:HA	1:U:435:ARG:HD3	1.85	0.43
1:U:529:HIS:CE1	1:U:534:GLU:HA	2.53	0.43
1:W:247:THR:HG23	1:W:680:GLN:HE22	1.83	0.43
1:W:353:LEU:HG	1:W:401:PHE:HE2	1.84	0.43
1:Z:407:ARG:C	1:Z:409:GLY:N	2.76	0.43
1:Z:504:ALA:O	1:Z:508:ALA:HB2	2.19	0.43
1:Z:512:HIS:CE1	1:Z:515:GLY:HA2	2.54	0.43
1:a:512:HIS:CE1	1:a:515:GLY:HA2	2.54	0.43
1:b:504:ALA:O	1:b:508:ALA:HB2	2.19	0.43
1:e:529:HIS:CE1	1:e:534:GLU:HA	2.53	0.43
1:f:434:ASP:HB2	1:f:478:LYS:HE2	2.01	0.43
1:f:622:ALA:HB3	1:f:635:PRO:HG3	2.01	0.43
1:g:512:HIS:CE1	1:g:515:GLY:HA2	2.54	0.43
1:h:270:THR:HG23	1:h:272:ASP:H	1.84	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:i:512:HIS:CE1	1:i:515:GLY:HA2	2.54	0.43
1:j:434:ASP:HB2	1:j:478:LYS:HE2	2.01	0.43
1:m:407:ARG:C	1:m:409:GLY:N	2.76	0.43
1:m:512:HIS:CE1	1:m:515:GLY:HA2	2.54	0.43
1:o:263:ASN:HB2	1:o:275:TYR:CE2	2.53	0.43
1:o:504:ALA:O	1:o:508:ALA:HB2	2.19	0.43
1:q:353:LEU:HG	1:q:401:PHE:HE2	1.84	0.43
1:r:512:HIS:CE1	1:r:515:GLY:HA2	2.54	0.43
1:s:292:CYS:SG	1:s:365:LEU:HB2	2.59	0.43
1:s:406:LEU:HD21	1:s:412:PHE:HB2	2.00	0.43
1:u:434:ASP:HB2	1:u:478:LYS:HE2	2.01	0.43
1:v:512:HIS:CE1	1:v:515:GLY:HA2	2.54	0.43
1:x:353:LEU:HG	1:x:401:PHE:HE2	1.84	0.43
1:x:436:LEU:HD21	1:x:738:LEU:HD22	2.01	0.43
1:x:473:MET:HB2	1:x:473:MET:HE3	1.86	0.43
1:x:622:ALA:HB3	1:x:635:PRO:HG3	2.01	0.43
1:z:490:ARG:O	1:2:587:GLN:NE2	2.51	0.43
1:z:512:HIS:CE1	1:z:515:GLY:HA2	2.54	0.43
1:3:436:LEU:HD21	1:3:738:LEU:HD22	2.00	0.43
1:3:622:ALA:HB3	1:3:635:PRO:HG3	2.01	0.43
1:4:616:LEU:HD22	1:4:729:ILE:HD12	2.00	0.43
1:5:512:HIS:CE1	1:5:515:GLY:HA2	2.54	0.43
1:6:407:ARG:C	1:6:409:GLY:N	2.76	0.43
1:8:436:LEU:HD21	1:8:738:LEU:HD22	2.00	0.43
1:A:263:ASN:HB2	1:A:275:TYR:CE2	2.53	0.43
1:B:407:ARG:C	1:B:409:GLY:N	2.76	0.43
1:B:504:ALA:O	1:B:508:ALA:HB2	2.19	0.43
1:D:247:THR:HG23	1:D:680:GLN:HE22	1.83	0.43
1:D:512:HIS:CE1	1:D:515:GLY:HA2	2.54	0.43
1:E:406:LEU:HD21	1:E:412:PHE:HB2	2.00	0.43
1:I:263:ASN:HB2	1:I:275:TYR:CE2	2.53	0.43
1:I:353:LEU:HG	1:I:401:PHE:HE2	1.84	0.43
1:I:622:ALA:HB3	1:I:635:PRO:HG3	2.01	0.43
1:J:353:LEU:HG	1:J:401:PHE:HE2	1.84	0.43
1:J:616:LEU:HD22	1:J:729:ILE:HD12	2.00	0.43
1:K:512:HIS:CE1	1:K:515:GLY:HA2	2.54	0.43
1:M:270:THR:HG23	1:M:272:ASP:H	1.84	0.43
1:M:616:LEU:HD22	1:M:729:ILE:HD12	2.00	0.43
1:N:270:THR:HG23	1:N:272:ASP:H	1.84	0.43
1:N:434:ASP:HB2	1:N:478:LYS:HE2	2.01	0.43
1:N:473:MET:HE3	1:N:473:MET:HB2	1.86	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:O:270:THR:HG23	1:O:272:ASP:H	1.84	0.43
1:O:297:ARG:O	1:O:300:GLN:N	2.48	0.43
1:O:353:LEU:HG	1:O:401:PHE:HE2	1.84	0.43
1:O:436:LEU:HD21	1:O:738:LEU:HD22	2.00	0.43
1:Q:504:ALA:O	1:Q:508:ALA:HB2	2.19	0.43
1:S:434:ASP:HB2	1:S:478:LYS:HE2	2.01	0.43
1:U:406:LEU:HD21	1:U:412:PHE:HB2	2.00	0.43
1:Y:512:HIS:CE1	1:Y:515:GLY:HA2	2.54	0.43
1:a:434:ASP:HB2	1:a:478:LYS:HE2	2.01	0.43
1:c:270:THR:HG23	1:c:272:ASP:H	1.84	0.43
1:c:353:LEU:HG	1:c:401:PHE:HE2	1.84	0.43
1:c:622:ALA:HB3	1:c:635:PRO:HG3	2.01	0.43
1:e:247:THR:HG23	1:e:680:GLN:HE22	1.83	0.43
1:e:270:THR:HG23	1:e:272:ASP:H	1.84	0.43
1:g:238:ASP:OD1	1:g:239:ARG:N	2.49	0.43
1:h:292:CYS:SG	1:h:365:LEU:HB2	2.59	0.43
1:h:434:ASP:HB2	1:h:478:LYS:HE2	2.01	0.43
1:k:263:ASN:HB2	1:k:275:TYR:CE2	2.53	0.43
1:k:292:CYS:SG	1:k:365:LEU:HB2	2.59	0.43
1:k:434:ASP:HB2	1:k:478:LYS:HE2	2.01	0.43
1:k:512:HIS:CE1	1:k:515:GLY:HA2	2.54	0.43
1:l:286:ASP:O	1:l:364:CYS:HA	2.19	0.43
1:l:512:HIS:CE1	1:l:515:GLY:HA2	2.54	0.43
1:o:434:ASP:HB2	1:o:478:LYS:HE2	2.01	0.43
1:o:436:LEU:HD21	1:o:738:LEU:HD22	2.00	0.43
1:o:512:HIS:CE1	1:o:515:GLY:HA2	2.54	0.43
1:r:270:THR:HG23	1:r:272:ASP:H	1.83	0.43
1:s:622:ALA:HB3	1:s:635:PRO:HG3	2.01	0.43
1:v:247:THR:HG23	1:v:680:GLN:HE22	1.83	0.43
1:w:529:HIS:CE1	1:w:534:GLU:HA	2.53	0.43
1:w:718:ASN:ND2	1:w:722:THR:HB	2.31	0.43
1:z:286:ASP:O	1:z:364:CYS:HA	2.19	0.43
1:1:504:ALA:O	1:1:508:ALA:HB2	2.19	0.43
1:1:583:ALA:O	1:2:487:ARG:HD2	2.18	0.43
1:3:263:ASN:HB2	1:3:275:TYR:CE2	2.53	0.43
1:3:270:THR:HG23	1:3:272:ASP:H	1.84	0.43
1:3:297:ARG:O	1:3:300:GLN:N	2.48	0.43
1:3:353:LEU:HG	1:3:401:PHE:HE2	1.84	0.43
1:4:270:THR:HG23	1:4:272:ASP:H	1.84	0.43
1:5:504:ALA:O	1:5:508:ALA:HB2	2.19	0.43
1:6:353:LEU:HG	1:6:401:PHE:HE2	1.84	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:6:718:ASN:ND2	1:6:722:THR:HB	2.31	0.43
1:7:406:LEU:HD21	1:7:412:PHE:HB2	2.00	0.43
1:8:353:LEU:HG	1:8:401:PHE:HE2	1.84	0.43
1:A:286:ASP:O	1:A:364:CYS:HA	2.19	0.43
1:A:512:HIS:CE1	1:A:515:GLY:HA2	2.54	0.43
1:B:416:TYR:OH	1:B:644:HIS:O	2.33	0.43
1:B:616:LEU:HD22	1:B:729:ILE:HD12	2.00	0.43
1:C:286:ASP:O	1:C:364:CYS:HA	2.19	0.43
1:D:650:LEU:HD13	1:D:650:LEU:HA	1.86	0.43
1:E:270:THR:HG23	1:E:272:ASP:H	1.84	0.43
1:F:270:THR:HG23	1:F:272:ASP:H	1.84	0.43
1:F:552:ARG:NH1	1:F:553:ASP:OD2	2.52	0.43
1:G:270:THR:HG23	1:G:272:ASP:H	1.84	0.43
1:H:552:ARG:NH1	1:H:553:ASP:OD2	2.52	0.43
1:L:247:THR:HG23	1:L:680:GLN:HE22	1.83	0.43
1:L:286:ASP:O	1:L:364:CYS:HA	2.19	0.43
1:L:473:MET:HE3	1:L:473:MET:HB2	1.86	0.43
1:M:353:LEU:HG	1:M:401:PHE:HE2	1.84	0.43
1:M:512:HIS:CE1	1:M:515:GLY:HA2	2.54	0.43
1:M:627:THR:CG2	1:b:610:GLN:HE21	2.25	0.43
1:N:512:HIS:CE1	1:N:515:GLY:HA2	2.54	0.43
1:O:504:ALA:O	1:O:508:ALA:HB2	2.19	0.43
1:Q:247:THR:HG23	1:Q:680:GLN:HE22	1.83	0.43
1:Q:353:LEU:HG	1:Q:401:PHE:HE2	1.84	0.43
1:R:263:ASN:HB2	1:R:275:TYR:CE2	2.53	0.43
1:R:297:ARG:O	1:R:300:GLN:N	2.48	0.43
1:R:512:HIS:CE1	1:R:515:GLY:HA2	2.54	0.43
1:S:504:ALA:O	1:S:508:ALA:HB2	2.19	0.43
1:T:504:ALA:O	1:T:508:ALA:HB2	2.19	0.43
1:U:247:THR:HG23	1:U:680:GLN:HE22	1.83	0.43
1:U:616:LEU:HD22	1:U:729:ILE:HD12	2.00	0.43
1:V:512:HIS:CE1	1:V:515:GLY:HA2	2.54	0.43
1:X:292:CYS:SG	1:X:365:LEU:HB2	2.59	0.43
1:X:353:LEU:HG	1:X:401:PHE:HE2	1.84	0.43
1:X:504:ALA:O	1:X:508:ALA:HB2	2.19	0.43
1:X:622:ALA:HB3	1:X:635:PRO:HG3	2.01	0.43
1:Y:270:THR:HG23	1:Y:272:ASP:H	1.84	0.43
1:Y:622:ALA:HB3	1:Y:635:PRO:HG3	2.01	0.43
1:Z:622:ALA:HB3	1:Z:635:PRO:HG3	2.01	0.43
1:a:270:THR:HG23	1:a:272:ASP:H	1.84	0.43
1:b:616:LEU:HD22	1:b:729:ILE:HD12	2.00	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:e:297:ARG:O	1:e:300:GLN:N	2.48	0.43
1:f:610:GLN:HE21	1:h:627:THR:CG2	2.25	0.43
1:h:263:ASN:HB2	1:h:275:TYR:CE2	2.53	0.43
1:h:504:ALA:O	1:h:508:ALA:HB2	2.19	0.43
1:j:512:HIS:CE1	1:j:515:GLY:HA2	2.54	0.43
1:k:435:ARG:HA	1:k:435:ARG:HD3	1.85	0.43
1:k:504:ALA:O	1:k:508:ALA:HB2	2.19	0.43
1:l:270:THR:HG23	1:l:272:ASP:H	1.84	0.43
1:l:650:LEU:HA	1:l:650:LEU:HD13	1.86	0.43
1:m:425:SER:OG	1:n:628:ASP:OD2	2.30	0.43
1:n:552:ARG:NH1	1:n:553:ASP:OD2	2.52	0.43
1:n:650:LEU:HD13	1:n:650:LEU:HA	1.86	0.43
1:o:286:ASP:O	1:o:364:CYS:HA	2.19	0.43
1:o:718:ASN:ND2	1:o:722:THR:HB	2.31	0.43
1:q:247:THR:HG23	1:q:680:GLN:HE22	1.83	0.43
1:r:622:ALA:HB3	1:r:635:PRO:HG3	2.01	0.43
1:t:263:ASN:HB2	1:t:275:TYR:CE2	2.53	0.43
1:v:552:ARG:NH1	1:v:553:ASP:OD2	2.52	0.43
1:v:616:LEU:HD22	1:v:729:ILE:HD12	2.00	0.43
1:w:247:THR:HG23	1:w:680:GLN:HE22	1.83	0.43
1:x:292:CYS:SG	1:x:365:LEU:HB2	2.59	0.43
1:x:504:ALA:O	1:x:508:ALA:HB2	2.19	0.43
1:1:270:THR:HG23	1:1:272:ASP:H	1.84	0.43
1:1:610:GLN:HE21	1:2:627:THR:CG2	2.24	0.43
1:3:504:ALA:O	1:3:508:ALA:HB2	2.19	0.43
1:4:292:CYS:SG	1:4:365:LEU:HB2	2.59	0.43
1:4:552:ARG:NH1	1:4:553:ASP:OD2	2.52	0.43
1:6:270:THR:HG23	1:6:272:ASP:H	1.84	0.43
1:6:552:ARG:NH1	1:6:553:ASP:OD2	2.52	0.43
1:7:407:ARG:C	1:7:409:GLY:N	2.76	0.43
1:7:434:ASP:HB2	1:7:478:LYS:HE2	2.01	0.43
1:A:436:LEU:HD21	1:A:738:LEU:HD22	2.00	0.42
1:B:512:HIS:CE1	1:B:515:GLY:HA2	2.54	0.42
1:D:353:LEU:HG	1:D:401:PHE:HE2	1.84	0.42
1:E:292:CYS:SG	1:E:365:LEU:HB2	2.58	0.42
1:E:312:LYS:O	1:E:418:PHE:N	2.44	0.42
1:E:407:ARG:C	1:E:409:GLY:N	2.76	0.42
1:E:552:ARG:NH1	1:E:553:ASP:OD2	2.52	0.42
1:G:504:ALA:O	1:G:508:ALA:HB2	2.19	0.42
1:G:622:ALA:HB3	1:G:635:PRO:HG3	2.01	0.42
1:H:504:ALA:O	1:H:508:ALA:HB2	2.19	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:512:HIS:CE1	1:H:515:GLY:HA2	2.54	0.42
1:I:270:THR:HG23	1:I:272:ASP:H	1.84	0.42
1:I:512:HIS:CE1	1:I:515:GLY:HA2	2.54	0.42
1:J:512:HIS:CE1	1:J:515:GLY:HA2	2.54	0.42
1:K:247:THR:HG23	1:K:680:GLN:HE22	1.83	0.42
1:K:353:LEU:HG	1:K:401:PHE:HE2	1.84	0.42
1:L:292:CYS:SG	1:L:365:LEU:HB2	2.59	0.42
1:M:504:ALA:O	1:M:508:ALA:HB2	2.19	0.42
1:N:481:LEU:HD11	1:P:636:LEU:HD11	2.01	0.42
1:Q:436:LEU:HD21	1:Q:738:LEU:HD22	2.00	0.42
1:Q:552:ARG:NH1	1:Q:553:ASP:OD2	2.52	0.42
1:S:353:LEU:HG	1:S:401:PHE:HE2	1.84	0.42
1:T:270:THR:HG23	1:T:272:ASP:H	1.84	0.42
1:U:254:ASN:ND2	1:U:377:GLN:HE22	2.18	0.42
1:U:552:ARG:NH1	1:U:553:ASP:OD2	2.52	0.42
1:V:286:ASP:O	1:V:364:CYS:HA	2.19	0.42
1:W:434:ASP:HB2	1:W:478:LYS:HE2	2.01	0.42
1:X:270:THR:HG23	1:X:272:ASP:H	1.84	0.42
1:X:473:MET:HB2	1:X:473:MET:HE3	1.86	0.42
1:X:650:LEU:HD13	1:X:650:LEU:HA	1.87	0.42
1:Z:247:THR:HG23	1:Z:680:GLN:HE22	1.83	0.42
1:b:407:ARG:C	1:b:409:GLY:N	2.76	0.42
1:b:436:LEU:HD21	1:b:738:LEU:HD22	2.00	0.42
1:b:512:HIS:CE1	1:b:515:GLY:HA2	2.54	0.42
1:c:263:ASN:HB2	1:c:275:TYR:CE2	2.53	0.42
1:c:292:CYS:SG	1:c:365:LEU:HB2	2.59	0.42
1:c:512:HIS:CE1	1:c:515:GLY:HA2	2.54	0.42
1:e:434:ASP:HB2	1:e:478:LYS:HE2	2.01	0.42
1:f:512:HIS:CE1	1:f:515:GLY:HA2	2.54	0.42
1:g:247:THR:HG23	1:g:680:GLN:HE22	1.83	0.42
1:g:353:LEU:HG	1:g:401:PHE:HE2	1.84	0.42
1:h:512:HIS:CE1	1:h:515:GLY:HA2	2.54	0.42
1:i:353:LEU:HG	1:i:401:PHE:HE2	1.84	0.42
1:j:407:ARG:C	1:j:409:GLY:N	2.76	0.42
1:l:353:LEU:HG	1:l:401:PHE:HE2	1.84	0.42
1:l:504:ALA:O	1:l:508:ALA:HB2	2.19	0.42
1:l:622:ALA:HB3	1:l:635:PRO:HG3	2.01	0.42
1:m:622:ALA:HB3	1:m:635:PRO:HG3	2.01	0.42
1:n:353:LEU:HG	1:n:401:PHE:HE2	1.84	0.42
1:p:622:ALA:HB3	1:p:635:PRO:HG3	2.01	0.42
1:q:286:ASP:O	1:q:364:CYS:HA	2.19	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:q:512:HIS:CE1	1:q:515:GLY:HA2	2.54	0.42
1:q:622:ALA:HB3	1:q:635:PRO:HG3	2.01	0.42
1:r:552:ARG:NH1	1:r:553:ASP:OD2	2.52	0.42
1:s:512:HIS:CE1	1:s:515:GLY:HA2	2.54	0.42
1:s:552:ARG:NH1	1:s:553:ASP:OD2	2.52	0.42
1:t:512:HIS:CE1	1:t:515:GLY:HA2	2.54	0.42
1:t:608:VAL:HG12	1:u:630:ASN:HB3	2.01	0.42
1:u:353:LEU:HG	1:u:401:PHE:HE2	1.84	0.42
1:u:504:ALA:O	1:u:508:ALA:HB2	2.19	0.42
1:v:254:ASN:ND2	1:v:377:GLN:HE22	2.18	0.42
1:v:406:LEU:HD21	1:v:412:PHE:HB2	2.00	0.42
1:v:435:ARG:HA	1:v:435:ARG:HD3	1.85	0.42
1:w:552:ARG:NH1	1:w:553:ASP:OD2	2.52	0.42
1:x:270:THR:HG23	1:x:272:ASP:H	1.84	0.42
1:y:286:ASP:O	1:y:364:CYS:HA	2.19	0.42
1:y:292:CYS:SG	1:y:365:LEU:HB2	2.59	0.42
1:y:435:ARG:HD3	1:y:435:ARG:HA	1.86	0.42
1:y:512:HIS:CE1	1:y:515:GLY:HA2	2.54	0.42
1:z:270:THR:HG23	1:z:272:ASP:H	1.84	0.42
1:1:512:HIS:CE1	1:1:515:GLY:HA2	2.54	0.42
1:5:353:LEU:HG	1:5:401:PHE:HE2	1.84	0.42
1:5:436:LEU:HD21	1:5:738:LEU:HD22	2.00	0.42
1:5:552:ARG:NH1	1:5:553:ASP:OD2	2.52	0.42
1:6:436:LEU:HD21	1:6:738:LEU:HD22	2.01	0.42
1:6:610:GLN:HE21	1:7:627:THR:CG2	2.25	0.42
1:7:270:THR:HG23	1:7:272:ASP:H	1.84	0.42
1:7:552:ARG:NH1	1:7:553:ASP:OD2	2.52	0.42
1:B:436:LEU:HD21	1:B:738:LEU:HD22	2.00	0.42
1:C:247:THR:HG23	1:C:680:GLN:HE22	1.83	0.42
1:C:292:CYS:SG	1:C:365:LEU:HB2	2.59	0.42
1:C:312:LYS:HA	1:C:312:LYS:HD2	1.89	0.42
1:C:552:ARG:NH1	1:C:553:ASP:OD2	2.52	0.42
1:C:622:ALA:HB3	1:C:635:PRO:HG3	2.01	0.42
1:D:503:PHE:HA	1:D:506:THR:OG1	2.20	0.42
1:E:436:LEU:HD21	1:E:738:LEU:HD22	2.01	0.42
1:F:436:LEU:HD21	1:F:738:LEU:HD22	2.01	0.42
1:G:254:ASN:ND2	1:G:377:GLN:HE22	2.17	0.42
1:G:286:ASP:O	1:G:364:CYS:HA	2.19	0.42
1:J:504:ALA:O	1:J:508:ALA:HB2	2.19	0.42
1:J:552:ARG:NH1	1:J:553:ASP:OD2	2.52	0.42
1:J:622:ALA:HB3	1:J:635:PRO:HG3	2.01	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:254:ASN:ND2	1:K:377:GLN:HE22	2.18	0.42
1:L:552:ARG:NH1	1:L:553:ASP:OD2	2.52	0.42
1:L:622:ALA:HB3	1:L:635:PRO:HG3	2.01	0.42
1:M:407:ARG:C	1:M:409:GLY:N	2.76	0.42
1:O:254:ASN:ND2	1:O:377:GLN:HE22	2.18	0.42
1:P:254:ASN:ND2	1:P:377:GLN:HE22	2.18	0.42
1:P:270:THR:HG23	1:P:272:ASP:H	1.84	0.42
1:P:435:ARG:HA	1:P:435:ARG:HD3	1.85	0.42
1:T:512:HIS:CE1	1:T:515:GLY:HA2	2.54	0.42
1:T:610:GLN:HE21	1:d:627:THR:CG2	2.25	0.42
1:V:292:CYS:SG	1:V:365:LEU:HB2	2.59	0.42
1:W:233:SER:OG	1:W:298:ASP:OD2	2.34	0.42
1:W:286:ASP:O	1:W:364:CYS:HA	2.19	0.42
1:W:512:HIS:CE1	1:W:515:GLY:HA2	2.54	0.42
1:X:238:ASP:OD1	1:X:239:ARG:N	2.49	0.42
1:X:512:HIS:CE1	1:X:515:GLY:HA2	2.54	0.42
1:Y:552:ARG:NH1	1:Y:553:ASP:OD2	2.52	0.42
1:Z:254:ASN:ND2	1:Z:377:GLN:HE22	2.18	0.42
1:c:328:GLN:NE2	1:c:333:LYS:HG3	2.23	0.42
1:d:353:LEU:HG	1:d:401:PHE:HE2	1.84	0.42
1:d:512:HIS:CE1	1:d:515:GLY:HA2	2.54	0.42
1:e:552:ARG:NH1	1:e:553:ASP:OD2	2.52	0.42
1:e:718:ASN:ND2	1:e:722:THR:HB	2.31	0.42
1:g:270:THR:HG23	1:g:272:ASP:H	1.84	0.42
1:g:406:LEU:HD21	1:g:412:PHE:HB2	2.00	0.42
1:i:238:ASP:OD1	1:i:239:ARG:N	2.49	0.42
1:i:247:THR:HG23	1:i:680:GLN:HE22	1.83	0.42
1:i:270:THR:HG23	1:i:272:ASP:H	1.84	0.42
1:i:406:LEU:HD21	1:i:412:PHE:HB2	2.00	0.42
1:i:464:LEU:HD23	1:j:554:ASN:HB3	2.00	0.42
1:i:630:ASN:HB3	1:k:608:VAL:HG12	2.01	0.42
1:j:503:PHE:HA	1:j:506:THR:OG1	2.19	0.42
1:k:286:ASP:O	1:k:364:CYS:HA	2.19	0.42
1:m:247:THR:HG23	1:m:680:GLN:HE22	1.83	0.42
1:p:254:ASN:ND2	1:p:377:GLN:HE22	2.17	0.42
1:p:270:THR:HG23	1:p:272:ASP:H	1.84	0.42
1:p:286:ASP:O	1:p:364:CYS:HA	2.19	0.42
1:p:504:ALA:O	1:p:508:ALA:HB2	2.19	0.42
1:q:254:ASN:ND2	1:q:377:GLN:HE22	2.18	0.42
1:r:353:LEU:HG	1:r:401:PHE:HE2	1.84	0.42
1:s:504:ALA:O	1:s:508:ALA:HB2	2.19	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:s:616:LEU:HD22	1:s:729:ILE:HD12	1.99	0.42
1:t:297:ARG:O	1:t:300:GLN:N	2.48	0.42
1:u:247:THR:HG23	1:u:680:GLN:HE22	1.83	0.42
1:w:464:LEU:HD23	1:x:554:ASN:HB3	2.00	0.42
1:z:292:CYS:SG	1:z:365:LEU:HB2	2.59	0.42
1:z:353:LEU:HG	1:z:401:PHE:HE2	1.84	0.42
1:z:504:ALA:O	1:z:508:ALA:HB2	2.19	0.42
1:z:622:ALA:HB3	1:z:635:PRO:HG3	2.01	0.42
1:1:429:HIS:NE2	1:2:627:THR:HG22	2.33	0.42
1:2:512:HIS:CE1	1:2:515:GLY:HA2	2.54	0.42
1:3:254:ASN:ND2	1:3:377:GLN:HE22	2.18	0.42
1:4:254:ASN:ND2	1:4:377:GLN:HE22	2.18	0.42
1:5:247:THR:HG23	1:5:680:GLN:HE22	1.83	0.42
1:6:416:TYR:OH	1:6:644:HIS:O	2.33	0.42
1:7:436:LEU:HD21	1:7:738:LEU:HD22	2.00	0.42
1:8:254:ASN:ND2	1:8:377:GLN:HE22	2.18	0.42
1:8:270:THR:HG23	1:8:272:ASP:H	1.84	0.42
1:8:406:LEU:HD21	1:8:412:PHE:HB2	2.00	0.42
1:8:473:MET:HE3	1:8:473:MET:HB2	1.86	0.42
1:A:622:ALA:HB3	1:A:635:PRO:HG3	2.01	0.42
1:A:718:ASN:ND2	1:A:722:THR:HB	2.31	0.42
1:B:434:ASP:HB2	1:B:478:LYS:HE2	2.01	0.42
1:E:254:ASN:ND2	1:E:377:GLN:HE22	2.18	0.42
1:E:434:ASP:HB2	1:E:478:LYS:HE2	2.01	0.42
1:G:481:LEU:HD11	1:I:636:LEU:HD11	2.01	0.42
1:G:718:ASN:ND2	1:G:722:THR:HB	2.31	0.42
1:J:254:ASN:ND2	1:J:377:GLN:HE22	2.17	0.42
1:J:407:ARG:C	1:J:409:GLY:N	2.76	0.42
1:J:436:LEU:HD21	1:J:738:LEU:HD22	2.01	0.42
1:K:503:PHE:HA	1:K:506:THR:OG1	2.20	0.42
1:M:436:LEU:HD21	1:M:738:LEU:HD22	2.01	0.42
1:M:552:ARG:NH1	1:M:553:ASP:OD2	2.52	0.42
1:M:622:ALA:HB3	1:M:635:PRO:HG3	2.01	0.42
1:O:552:ARG:NH1	1:O:553:ASP:OD2	2.52	0.42
1:P:504:ALA:O	1:P:508:ALA:HB2	2.19	0.42
1:R:504:ALA:O	1:R:508:ALA:HB2	2.19	0.42
1:S:247:THR:HG23	1:S:680:GLN:HE22	1.83	0.42
1:S:512:HIS:CE1	1:S:515:GLY:HA2	2.54	0.42
1:U:622:ALA:HB3	1:U:635:PRO:HG3	2.01	0.42
1:V:263:ASN:HB2	1:V:275:TYR:CE2	2.53	0.42
1:W:254:ASN:ND2	1:W:377:GLN:HE22	2.18	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:W:622:ALA:HB3	1:W:635:PRO:HG3	2.01	0.42
1:Y:312:LYS:O	1:Y:418:PHE:N	2.44	0.42
1:Y:353:LEU:HG	1:Y:401:PHE:HE2	1.84	0.42
1:Y:436:LEU:HD21	1:Y:738:LEU:HD22	2.00	0.42
1:b:416:TYR:OH	1:b:644:HIS:O	2.33	0.42
1:b:434:ASP:HB2	1:b:478:LYS:HE2	2.01	0.42
1:c:286:ASP:O	1:c:364:CYS:HA	2.19	0.42
1:f:407:ARG:C	1:f:409:GLY:N	2.76	0.42
1:h:286:ASP:O	1:h:364:CYS:HA	2.20	0.42
1:h:406:LEU:HD21	1:h:412:PHE:HB2	2.00	0.42
1:h:622:ALA:HB3	1:h:635:PRO:HG3	2.01	0.42
1:i:292:CYS:SG	1:i:365:LEU:HB2	2.59	0.42
1:i:434:ASP:HB2	1:i:478:LYS:HE2	2.01	0.42
1:k:406:LEU:HD21	1:k:412:PHE:HB2	2.00	0.42
1:k:407:ARG:C	1:k:409:GLY:N	2.76	0.42
1:k:552:ARG:NH1	1:k:553:ASP:OD2	2.52	0.42
1:k:622:ALA:HB3	1:k:635:PRO:HG3	2.01	0.42
1:l:254:ASN:ND2	1:l:377:GLN:HE22	2.18	0.42
1:l:552:ARG:NH1	1:l:553:ASP:OD2	2.52	0.42
1:m:254:ASN:ND2	1:m:377:GLN:HE22	2.18	0.42
1:n:254:ASN:ND2	1:n:377:GLN:HE22	2.18	0.42
1:n:504:ALA:O	1:n:508:ALA:HB2	2.19	0.42
1:o:622:ALA:HB3	1:o:635:PRO:HG3	2.01	0.42
1:q:434:ASP:HB2	1:q:478:LYS:HE2	2.01	0.42
1:q:608:VAL:HG12	1:r:630:ASN:HB3	2.02	0.42
1:u:512:HIS:CE1	1:u:515:GLY:HA2	2.54	0.42
1:v:504:ALA:O	1:v:508:ALA:HB2	2.19	0.42
1:w:297:ARG:O	1:w:300:GLN:N	2.48	0.42
1:w:434:ASP:HB2	1:w:478:LYS:HE2	2.01	0.42
1:x:512:HIS:CE1	1:x:515:GLY:HA2	2.54	0.42
1:y:434:ASP:HB2	1:y:478:LYS:HE2	2.01	0.42
1:z:254:ASN:ND2	1:z:377:GLN:HE22	2.18	0.42
1:2:353:LEU:HG	1:2:401:PHE:HE2	1.84	0.42
1:3:286:ASP:O	1:3:364:CYS:HA	2.19	0.42
1:3:407:ARG:C	1:3:409:GLY:N	2.76	0.42
1:3:552:ARG:NH1	1:3:553:ASP:OD2	2.52	0.42
1:3:616:LEU:HD22	1:3:729:ILE:HD12	1.99	0.42
1:7:292:CYS:SG	1:7:365:LEU:HB2	2.59	0.42
1:A:552:ARG:NH1	1:A:553:ASP:OD2	2.52	0.42
1:B:503:PHE:HA	1:B:506:THR:OG1	2.20	0.42
1:B:552:ARG:NH1	1:B:553:ASP:OD2	2.52	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:608:VAL:HG12	1:J:630:ASN:HB3	2.02	0.42
1:B:610:GLN:HE21	1:J:627:THR:CG2	2.25	0.42
1:D:254:ASN:ND2	1:D:377:GLN:HE22	2.18	0.42
1:E:503:PHE:HA	1:E:506:THR:OG1	2.20	0.42
1:E:504:ALA:O	1:E:508:ALA:HB2	2.19	0.42
1:E:512:HIS:CE1	1:E:515:GLY:HA2	2.54	0.42
1:F:286:ASP:O	1:F:364:CYS:HA	2.19	0.42
1:I:286:ASP:O	1:I:364:CYS:HA	2.19	0.42
1:I:292:CYS:SG	1:I:365:LEU:HB2	2.59	0.42
1:M:630:ASN:HB3	1:b:608:VAL:HG12	2.02	0.42
1:N:622:ALA:HB3	1:N:635:PRO:HG3	2.01	0.42
1:O:286:ASP:O	1:O:364:CYS:HA	2.19	0.42
1:O:616:LEU:HD22	1:O:729:ILE:HD12	1.99	0.42
1:P:406:LEU:HD21	1:P:412:PHE:HB2	2.00	0.42
1:Q:406:LEU:HD21	1:Q:412:PHE:HB2	2.00	0.42
1:Q:434:ASP:HB2	1:Q:478:LYS:HE2	2.01	0.42
1:R:608:VAL:HG12	1:S:630:ASN:HB3	2.01	0.42
1:U:504:ALA:O	1:U:508:ALA:HB2	2.19	0.42
1:V:503:PHE:HA	1:V:506:THR:OG1	2.20	0.42
1:V:616:LEU:HD22	1:V:729:ILE:HD12	1.99	0.42
1:W:608:VAL:HG12	1:Y:630:ASN:HB3	2.02	0.42
1:X:718:ASN:ND2	1:X:722:THR:HB	2.31	0.42
1:Z:436:LEU:HD21	1:Z:738:LEU:HD22	2.00	0.42
1:Z:608:VAL:HG12	1:4:630:ASN:HB3	2.01	0.42
1:Z:718:ASN:ND2	1:Z:722:THR:HB	2.31	0.42
1:a:297:ARG:O	1:a:300:GLN:N	2.48	0.42
1:a:503:PHE:HA	1:a:506:THR:OG1	2.20	0.42
1:b:435:ARG:HD3	1:b:435:ARG:HA	1.86	0.42
1:b:503:PHE:HA	1:b:506:THR:OG1	2.20	0.42
1:b:552:ARG:NH1	1:b:553:ASP:OD2	2.52	0.42
1:c:406:LEU:HD21	1:c:412:PHE:HB2	2.00	0.42
1:d:286:ASP:O	1:d:364:CYS:HA	2.19	0.42
1:d:434:ASP:HB2	1:d:478:LYS:HE2	2.01	0.42
1:f:503:PHE:HA	1:f:506:THR:OG1	2.20	0.42
1:g:292:CYS:SG	1:g:365:LEU:HB2	2.59	0.42
1:g:434:ASP:HB2	1:g:478:LYS:HE2	2.01	0.42
1:g:552:ARG:NH1	1:g:553:ASP:OD2	2.52	0.42
1:h:436:LEU:HD21	1:h:738:LEU:HD22	2.00	0.42
1:h:552:ARG:NH1	1:h:553:ASP:OD2	2.52	0.42
1:i:407:ARG:C	1:i:409:GLY:N	2.76	0.42
1:i:552:ARG:NH1	1:i:553:ASP:OD2	2.52	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:l:292:CYS:SG	1:l:365:LEU:HB2	2.59	0.42
1:l:503:PHE:HA	1:l:506:THR:OG1	2.20	0.42
1:m:718:ASN:ND2	1:m:722:THR:HB	2.31	0.42
1:n:622:ALA:HB3	1:n:635:PRO:HG3	2.01	0.42
1:o:552:ARG:NH1	1:o:553:ASP:OD2	2.52	0.42
1:p:718:ASN:ND2	1:p:722:THR:HB	2.31	0.42
1:r:436:LEU:HD21	1:r:738:LEU:HD22	2.00	0.42
1:t:504:ALA:O	1:t:508:ALA:HB2	2.19	0.42
1:y:263:ASN:HB2	1:y:275:TYR:CE2	2.53	0.42
1:y:503:PHE:HA	1:y:506:THR:OG1	2.20	0.42
1:y:552:ARG:NH1	1:y:553:ASP:OD2	2.52	0.42
1:z:552:ARG:NH1	1:z:553:ASP:OD2	2.52	0.42
1:z:608:VAL:HG12	1:1:630:ASN:HB3	2.02	0.42
1:1:286:ASP:O	1:1:364:CYS:HA	2.19	0.42
1:1:297:ARG:O	1:1:300:GLN:N	2.48	0.42
1:2:434:ASP:HB2	1:2:478:LYS:HE2	2.01	0.42
1:2:552:ARG:NH1	1:2:553:ASP:OD2	2.52	0.42
1:4:504:ALA:O	1:4:508:ALA:HB2	2.19	0.42
1:4:622:ALA:HB3	1:4:635:PRO:HG3	2.01	0.42
1:4:650:LEU:HD13	1:4:650:LEU:HA	1.86	0.42
1:5:254:ASN:ND2	1:5:377:GLN:HE22	2.17	0.42
1:5:434:ASP:HB2	1:5:478:LYS:HE2	2.01	0.42
1:6:286:ASP:O	1:6:364:CYS:HA	2.19	0.42
1:7:254:ASN:ND2	1:7:377:GLN:HE22	2.18	0.42
1:7:353:LEU:HG	1:7:401:PHE:HE2	1.84	0.42
1:7:504:ALA:O	1:7:508:ALA:HB2	2.19	0.42
1:8:504:ALA:O	1:8:508:ALA:HB2	2.19	0.42
1:8:512:HIS:CE1	1:8:515:GLY:HA2	2.54	0.42
1:E:627:THR:CG2	1:F:610:GLN:HE21	2.25	0.42
1:F:416:TYR:OH	1:F:644:HIS:O	2.33	0.42
1:H:270:THR:HG23	1:H:272:ASP:H	1.84	0.42
1:H:616:LEU:HD22	1:H:729:ILE:HD12	2.00	0.42
1:K:312:LYS:O	1:K:418:PHE:N	2.44	0.42
1:M:254:ASN:ND2	1:M:377:GLN:HE22	2.18	0.42
1:N:503:PHE:HA	1:N:506:THR:OG1	2.20	0.42
1:O:407:ARG:C	1:O:409:GLY:N	2.76	0.42
1:O:512:HIS:CE1	1:O:515:GLY:HA2	2.54	0.42
1:Q:434:ASP:OD1	1:Q:434:ASP:N	2.53	0.42
1:R:286:ASP:O	1:R:364:CYS:HA	2.19	0.42
1:S:254:ASN:ND2	1:S:377:GLN:HE22	2.18	0.42
1:T:473:MET:HE3	1:T:473:MET:HB2	1.86	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:V:552:ARG:NH1	1:V:553:ASP:OD2	2.52	0.42
1:X:254:ASN:ND2	1:X:377:GLN:HE22	2.18	0.42
1:Y:504:ALA:O	1:Y:508:ALA:HB2	2.19	0.42
1:Z:434:ASP:HB2	1:Z:478:LYS:HE2	2.01	0.42
1:a:473:MET:HE3	1:a:473:MET:HB2	1.86	0.42
1:a:622:ALA:HB3	1:a:635:PRO:HG3	2.01	0.42
1:d:608:VAL:HG12	1:l:630:ASN:HB3	2.02	0.42
1:e:286:ASP:O	1:e:364:CYS:HA	2.19	0.42
1:f:552:ARG:NH1	1:f:553:ASP:OD2	2.52	0.42
1:g:254:ASN:ND2	1:g:377:GLN:HE22	2.17	0.42
1:g:284:TYR:HB3	1:g:650:LEU:HD13	2.02	0.42
1:g:630:ASN:HB3	1:h:608:VAL:HG12	2.01	0.42
1:h:407:ARG:C	1:h:409:GLY:N	2.76	0.42
1:h:435:ARG:HA	1:h:435:ARG:HD3	1.85	0.42
1:i:284:TYR:HB3	1:i:650:LEU:HD13	2.02	0.42
1:k:436:LEU:HD21	1:k:738:LEU:HD22	2.00	0.42
1:m:503:PHE:HA	1:m:506:THR:OG1	2.20	0.42
1:n:512:HIS:CE1	1:n:515:GLY:HA2	2.54	0.42
1:o:254:ASN:ND2	1:o:377:GLN:HE22	2.17	0.42
1:p:353:LEU:HG	1:p:401:PHE:HE2	1.84	0.42
1:p:503:PHE:HA	1:p:506:THR:OG1	2.19	0.42
1:s:270:THR:HG23	1:s:272:ASP:H	1.84	0.42
1:t:286:ASP:O	1:t:364:CYS:HA	2.19	0.42
1:t:292:CYS:SG	1:t:365:LEU:HB2	2.59	0.42
1:v:622:ALA:HB3	1:v:635:PRO:HG3	2.01	0.42
1:w:286:ASP:O	1:w:364:CYS:HA	2.20	0.42
1:z:503:PHE:HA	1:z:506:THR:OG1	2.20	0.42
1:3:503:PHE:HA	1:3:506:THR:OG1	2.20	0.42
1:4:353:LEU:HG	1:4:401:PHE:HE2	1.84	0.42
1:5:406:LEU:HD21	1:5:412:PHE:HB2	2.00	0.42
1:6:504:ALA:O	1:6:508:ALA:HB2	2.19	0.42
1:7:512:HIS:CE1	1:7:515:GLY:HA2	2.54	0.42
1:A:254:ASN:ND2	1:A:377:GLN:HE22	2.18	0.42
1:B:435:ARG:HD3	1:B:435:ARG:HA	1.85	0.42
1:C:473:MET:HE3	1:C:473:MET:HB2	1.86	0.42
1:D:552:ARG:NH1	1:D:553:ASP:OD2	2.52	0.42
1:D:630:ASN:HB3	1:P:608:VAL:HG12	2.02	0.42
1:E:338:ASN:ND2	1:E:341:SER:OG	2.53	0.42
1:E:353:LEU:HG	1:E:401:PHE:HE2	1.84	0.42
1:F:254:ASN:ND2	1:F:377:GLN:HE22	2.17	0.42
1:F:504:ALA:O	1:F:508:ALA:HB2	2.19	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:512:HIS:CE1	1:F:515:GLY:HA2	2.54	0.42
1:H:608:VAL:HG12	1:W:630:ASN:HB3	2.02	0.42
1:I:406:LEU:HD21	1:I:412:PHE:HB2	2.00	0.42
1:K:552:ARG:NH1	1:K:553:ASP:OD2	2.52	0.42
1:K:630:ASN:HB3	1:8:608:VAL:HG12	2.02	0.42
1:M:286:ASP:O	1:M:364:CYS:HA	2.19	0.42
1:N:297:ARG:O	1:N:300:GLN:N	2.48	0.42
1:N:416:TYR:OH	1:N:644:HIS:O	2.33	0.42
1:N:504:ALA:O	1:N:508:ALA:HB2	2.19	0.42
1:O:338:ASN:ND2	1:O:341:SER:OG	2.53	0.42
1:O:503:PHE:HA	1:O:506:THR:OG1	2.20	0.42
1:O:610:GLN:HE21	1:m:627:THR:CG2	2.25	0.42
1:P:512:HIS:CE1	1:P:515:GLY:HA2	2.54	0.42
1:Q:254:ASN:ND2	1:Q:377:GLN:HE22	2.18	0.42
1:Q:286:ASP:O	1:Q:364:CYS:HA	2.19	0.42
1:R:254:ASN:ND2	1:R:377:GLN:HE22	2.17	0.42
1:R:503:PHE:HA	1:R:506:THR:OG1	2.20	0.42
1:T:286:ASP:O	1:T:364:CYS:HA	2.19	0.42
1:T:292:CYS:SG	1:T:365:LEU:HB2	2.59	0.42
1:T:464:LEU:HD23	1:d:554:ASN:HB3	2.00	0.42
1:U:353:LEU:HG	1:U:401:PHE:HE2	1.84	0.42
1:V:434:ASP:HB2	1:V:478:LYS:HE2	2.01	0.42
1:V:504:ALA:O	1:V:508:ALA:HB2	2.19	0.42
1:X:552:ARG:NH1	1:X:553:ASP:OD2	2.52	0.42
1:Y:434:ASP:N	1:Y:434:ASP:OD1	2.53	0.42
1:Z:284:TYR:HB3	1:Z:650:LEU:HD13	2.02	0.42
1:Z:503:PHE:HA	1:Z:506:THR:OG1	2.20	0.42
1:Z:552:ARG:NH1	1:Z:553:ASP:OD2	2.52	0.42
1:b:254:ASN:ND2	1:b:377:GLN:HE22	2.18	0.42
1:c:247:THR:HG23	1:c:680:GLN:HE22	1.83	0.42
1:d:552:ARG:NH1	1:d:553:ASP:OD2	2.52	0.42
1:f:270:THR:HG23	1:f:272:ASP:H	1.84	0.42
1:f:297:ARG:O	1:f:300:GLN:N	2.48	0.42
1:f:312:LYS:O	1:f:418:PHE:N	2.44	0.42
1:f:353:LEU:HG	1:f:401:PHE:HE2	1.84	0.42
1:g:407:ARG:C	1:g:409:GLY:N	2.76	0.42
1:g:503:PHE:HA	1:g:506:THR:OG1	2.20	0.42
1:i:254:ASN:ND2	1:i:377:GLN:HE22	2.18	0.42
1:i:503:PHE:HA	1:i:506:THR:OG1	2.20	0.42
1:j:297:ARG:O	1:j:300:GLN:N	2.48	0.42
1:j:312:LYS:O	1:j:418:PHE:N	2.44	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:j:552:ARG:NH1	1:j:553:ASP:OD2	2.52	0.42
1:k:434:ASP:OD1	1:k:434:ASP:N	2.53	0.42
1:l:434:ASP:HB2	1:l:478:LYS:HE2	2.01	0.42
1:m:284:TYR:HB3	1:m:650:LEU:HD13	2.02	0.42
1:m:434:ASP:HB2	1:m:478:LYS:HE2	2.01	0.42
1:m:436:LEU:HD21	1:m:738:LEU:HD22	2.00	0.42
1:n:503:PHE:HA	1:n:506:THR:OG1	2.20	0.42
1:o:481:LEU:HD11	1:p:636:LEU:HD11	2.02	0.42
1:o:503:PHE:HA	1:o:506:THR:OG1	2.20	0.42
1:p:338:ASN:ND2	1:p:341:SER:OG	2.53	0.42
1:q:233:SER:OG	1:q:298:ASP:OD2	2.34	0.42
1:r:286:ASP:O	1:r:364:CYS:HA	2.19	0.42
1:r:504:ALA:O	1:r:508:ALA:HB2	2.19	0.42
1:s:284:TYR:HB3	1:s:650:LEU:HD13	2.02	0.42
1:u:254:ASN:ND2	1:u:377:GLN:HE22	2.18	0.42
1:x:254:ASN:ND2	1:x:377:GLN:HE22	2.18	0.42
1:x:552:ARG:NH1	1:x:553:ASP:OD2	2.52	0.42
1:x:718:ASN:ND2	1:x:722:THR:HB	2.31	0.42
1:y:616:LEU:HD22	1:y:729:ILE:HD12	2.00	0.42
1:z:630:ASN:HB3	1:2:608:VAL:HG12	2.02	0.42
1:1:328:GLN:NE2	1:1:333:LYS:HG3	2.23	0.42
1:2:247:THR:HG23	1:2:680:GLN:HE22	1.83	0.42
1:3:292:CYS:SG	1:3:365:LEU:HB2	2.59	0.42
1:5:286:ASP:O	1:5:364:CYS:HA	2.20	0.42
1:5:434:ASP:OD1	1:5:434:ASP:N	2.53	0.42
1:6:254:ASN:ND2	1:6:377:GLN:HE22	2.18	0.42
1:6:587:GLN:NE2	1:7:490:ARG:O	2.51	0.42
1:8:238:ASP:OD1	1:8:239:ARG:N	2.49	0.42
1:A:338:ASN:ND2	1:A:341:SER:OG	2.53	0.42
1:B:254:ASN:ND2	1:B:377:GLN:HE22	2.18	0.42
1:D:312:LYS:O	1:D:418:PHE:N	2.44	0.42
1:E:286:ASP:O	1:E:364:CYS:HA	2.19	0.42
1:E:481:LEU:HD11	1:Q:636:LEU:HD11	2.02	0.42
1:F:338:ASN:ND2	1:F:341:SER:OG	2.53	0.42
1:G:338:ASN:ND2	1:G:341:SER:OG	2.53	0.42
1:G:512:HIS:CE1	1:G:515:GLY:HA2	2.54	0.42
1:H:284:TYR:HB3	1:H:650:LEU:HD13	2.02	0.42
1:H:630:ASN:HB3	1:Y:608:VAL:HG12	2.01	0.42
1:I:328:GLN:NE2	1:I:333:LYS:HG3	2.23	0.42
1:J:284:TYR:HB3	1:J:650:LEU:HD13	2.02	0.42
1:J:286:ASP:O	1:J:364:CYS:HA	2.19	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:512:HIS:CE1	1:L:515:GLY:HA2	2.54	0.42
1:M:284:TYR:HB3	1:M:650:LEU:HD13	2.02	0.42
1:N:286:ASP:O	1:N:364:CYS:HA	2.20	0.42
1:P:238:ASP:OD1	1:P:239:ARG:N	2.49	0.42
1:P:503:PHE:HA	1:P:506:THR:OG1	2.20	0.42
1:P:552:ARG:NH1	1:P:553:ASP:OD2	2.52	0.42
1:Q:284:TYR:HB3	1:Q:650:LEU:HD13	2.02	0.42
1:R:292:CYS:SG	1:R:365:LEU:HB2	2.59	0.42
1:T:630:ASN:HB3	1:l:608:VAL:HG12	2.02	0.42
1:U:286:ASP:O	1:U:364:CYS:HA	2.19	0.42
1:W:312:LYS:O	1:W:418:PHE:N	2.44	0.42
1:Y:254:ASN:ND2	1:Y:377:GLN:HE22	2.17	0.42
1:Y:286:ASP:O	1:Y:364:CYS:HA	2.19	0.42
1:a:481:LEU:HD11	1:8:636:LEU:HD11	2.02	0.42
1:a:504:ALA:O	1:a:508:ALA:HB2	2.19	0.42
1:c:254:ASN:ND2	1:c:377:GLN:HE22	2.18	0.42
1:d:247:THR:HG23	1:d:680:GLN:HE22	1.83	0.42
1:f:718:ASN:ND2	1:f:722:THR:HB	2.31	0.42
1:g:338:ASN:ND2	1:g:341:SER:OG	2.53	0.42
1:h:353:LEU:HG	1:h:401:PHE:HE2	1.84	0.42
1:j:270:THR:HG23	1:j:272:ASP:H	1.84	0.42
1:j:353:LEU:HG	1:j:401:PHE:HE2	1.84	0.42
1:j:481:LEU:HD11	1:k:636:LEU:HD11	2.01	0.42
1:k:353:LEU:HG	1:k:401:PHE:HE2	1.84	0.42
1:m:481:LEU:HD11	1:n:636:LEU:HD11	2.02	0.42
1:o:338:ASN:ND2	1:o:341:SER:OG	2.53	0.42
1:p:512:HIS:CE1	1:p:515:GLY:HA2	2.54	0.42
1:q:630:ASN:HB3	1:s:608:VAL:HG12	2.02	0.42
1:r:312:LYS:O	1:r:418:PHE:N	2.44	0.42
1:r:434:ASP:N	1:r:434:ASP:OD1	2.53	0.42
1:t:254:ASN:ND2	1:t:377:GLN:HE22	2.18	0.42
1:t:312:LYS:O	1:t:418:PHE:N	2.44	0.42
1:t:503:PHE:HA	1:t:506:THR:OG1	2.20	0.42
1:v:353:LEU:HG	1:v:401:PHE:HE2	1.84	0.42
1:x:328:GLN:NE2	1:x:333:LYS:HG3	2.23	0.42
1:x:503:PHE:HA	1:x:506:THR:OG1	2.20	0.42
1:y:504:ALA:O	1:y:508:ALA:HB2	2.19	0.42
1:z:636:LEU:HD11	1:2:481:LEU:HD11	2.01	0.42
1:z:650:LEU:HD13	1:z:650:LEU:HA	1.87	0.42
1:1:292:CYS:SG	1:1:365:LEU:HB2	2.59	0.42
1:1:503:PHE:HA	1:1:506:THR:OG1	2.20	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:2:286:ASP:O	1:2:364:CYS:HA	2.19	0.42
1:2:290:PHE:HB2	1:2:616:LEU:O	2.20	0.42
1:3:338:ASN:ND2	1:3:341:SER:OG	2.53	0.42
1:3:512:HIS:CE1	1:3:515:GLY:HA2	2.54	0.42
1:4:512:HIS:CE1	1:4:515:GLY:HA2	2.54	0.42
1:5:503:PHE:HA	1:5:506:THR:OG1	2.20	0.42
1:7:286:ASP:O	1:7:364:CYS:HA	2.19	0.42
1:7:338:ASN:ND2	1:7:341:SER:OG	2.53	0.42
1:7:503:PHE:HA	1:7:506:THR:OG1	2.20	0.42
1:8:503:PHE:HA	1:8:506:THR:OG1	2.20	0.42
1:A:503:PHE:HA	1:A:506:THR:OG1	2.20	0.42
1:C:290:PHE:HB2	1:C:616:LEU:O	2.20	0.42
1:C:407:ARG:O	1:C:408:THR:C	2.63	0.42
1:D:286:ASP:O	1:D:364:CYS:HA	2.19	0.42
1:D:504:ALA:O	1:D:508:ALA:HB2	2.19	0.42
1:E:490:ARG:O	1:F:587:GLN:NE2	2.51	0.42
1:G:436:LEU:HD21	1:G:738:LEU:HD22	2.01	0.42
1:H:338:ASN:ND2	1:H:341:SER:OG	2.53	0.42
1:I:254:ASN:ND2	1:I:377:GLN:HE22	2.18	0.42
1:I:284:TYR:HB3	1:I:650:LEU:HD13	2.02	0.42
1:I:552:ARG:NH1	1:I:553:ASP:OD2	2.52	0.42
1:K:622:ALA:HB3	1:K:635:PRO:HG3	2.01	0.42
1:O:292:CYS:SG	1:O:365:LEU:HB2	2.59	0.42
1:P:338:ASN:ND2	1:P:341:SER:OG	2.53	0.42
1:P:473:MET:HE3	1:P:473:MET:HB2	1.86	0.42
1:P:650:LEU:HD13	1:P:650:LEU:HA	1.86	0.42
1:Q:503:PHE:HA	1:Q:506:THR:OG1	2.20	0.42
1:R:312:LYS:O	1:R:418:PHE:N	2.44	0.42
1:T:503:PHE:HA	1:T:506:THR:OG1	2.20	0.42
1:U:338:ASN:ND2	1:U:341:SER:OG	2.53	0.42
1:V:290:PHE:HB2	1:V:616:LEU:O	2.20	0.42
1:V:434:ASP:N	1:V:434:ASP:OD1	2.53	0.42
1:W:503:PHE:HA	1:W:506:THR:OG1	2.20	0.42
1:X:503:PHE:HA	1:X:506:THR:OG1	2.20	0.42
1:Y:284:TYR:HB3	1:Y:650:LEU:HD13	2.02	0.42
1:Y:338:ASN:ND2	1:Y:341:SER:OG	2.53	0.42
1:Z:627:THR:CG2	1:3:610:GLN:HE21	2.25	0.42
1:a:286:ASP:O	1:a:364:CYS:HA	2.19	0.42
1:a:353:LEU:HG	1:a:401:PHE:HE2	1.84	0.42
1:c:284:TYR:HB3	1:c:650:LEU:HD13	2.02	0.42
1:c:552:ARG:NH1	1:c:553:ASP:OD2	2.52	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:d:290:PHE:HB2	1:d:616:LEU:O	2.20	0.42
1:e:504:ALA:O	1:e:508:ALA:HB2	2.19	0.42
1:f:338:ASN:ND2	1:f:341:SER:OG	2.53	0.42
1:g:504:ALA:O	1:g:508:ALA:HB2	2.19	0.42
1:h:434:ASP:N	1:h:434:ASP:OD1	2.53	0.42
1:i:338:ASN:ND2	1:i:341:SER:OG	2.53	0.42
1:i:504:ALA:O	1:i:508:ALA:HB2	2.19	0.42
1:j:338:ASN:ND2	1:j:341:SER:OG	2.53	0.42
1:k:290:PHE:HB2	1:k:616:LEU:O	2.20	0.42
1:l:338:ASN:ND2	1:l:341:SER:OG	2.53	0.42
1:m:552:ARG:NH1	1:m:553:ASP:OD2	2.52	0.42
1:n:338:ASN:ND2	1:n:341:SER:OG	2.53	0.42
1:q:628:ASP:OD2	1:s:425:SER:OG	2.30	0.42
1:r:254:ASN:ND2	1:r:377:GLN:HE22	2.18	0.42
1:r:338:ASN:ND2	1:r:341:SER:OG	2.53	0.42
1:x:481:LEU:HD11	1:y:636:LEU:HD11	2.02	0.42
1:z:338:ASN:ND2	1:z:341:SER:OG	2.53	0.42
1:z:434:ASP:HB2	1:z:478:LYS:HE2	2.01	0.42
1:4:338:ASN:ND2	1:4:341:SER:OG	2.53	0.42
1:4:503:PHE:HA	1:4:506:THR:OG1	2.20	0.42
1:5:284:TYR:HB3	1:5:650:LEU:HD13	2.02	0.42
1:5:312:LYS:O	1:5:418:PHE:N	2.44	0.42
1:6:338:ASN:ND2	1:6:341:SER:OG	2.53	0.42
1:8:338:ASN:ND2	1:8:341:SER:OG	2.53	0.42
1:A:429:HIS:NE2	1:G:627:THR:HG22	2.35	0.42
1:C:254:ASN:ND2	1:C:377:GLN:HE22	2.17	0.42
1:C:512:HIS:CE1	1:C:515:GLY:HA2	2.54	0.42
1:D:628:ASP:OD2	1:P:425:SER:OG	2.30	0.42
1:G:353:LEU:HG	1:G:401:PHE:HE2	1.84	0.42
1:G:503:PHE:HA	1:G:506:THR:OG1	2.20	0.42
1:H:425:SER:OG	1:W:628:ASP:OD2	2.30	0.42
1:I:247:THR:HG23	1:I:680:GLN:HE22	1.83	0.42
1:I:504:ALA:O	1:I:508:ALA:HB2	2.19	0.42
1:K:286:ASP:O	1:K:364:CYS:HA	2.19	0.42
1:K:504:ALA:O	1:K:508:ALA:HB2	2.19	0.42
1:L:407:ARG:O	1:L:408:THR:C	2.63	0.42
1:N:353:LEU:HG	1:N:401:PHE:HE2	1.84	0.42
1:O:434:ASP:HB2	1:O:478:LYS:HE2	2.01	0.42
1:Q:312:LYS:O	1:Q:418:PHE:N	2.44	0.42
1:S:338:ASN:ND2	1:S:341:SER:OG	2.53	0.42
1:S:435:ARG:HD3	1:S:435:ARG:HA	1.85	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:T:297:ARG:O	1:T:300:GLN:N	2.48	0.42
1:T:608:VAL:HG12	1:d:630:ASN:HB3	2.02	0.42
1:W:552:ARG:NH1	1:W:553:ASP:OD2	2.52	0.42
1:Z:338:ASN:ND2	1:Z:341:SER:OG	2.53	0.42
1:a:436:LEU:HD21	1:a:738:LEU:HD22	2.00	0.42
1:c:338:ASN:ND2	1:c:341:SER:OG	2.53	0.42
1:c:608:VAL:HG12	1:o:630:ASN:HB3	2.02	0.42
1:d:503:PHE:HA	1:d:506:THR:OG1	2.20	0.42
1:e:338:ASN:ND2	1:e:341:SER:OG	2.53	0.42
1:e:512:HIS:CE1	1:e:515:GLY:HA2	2.54	0.42
1:e:622:ALA:HB3	1:e:635:PRO:HG3	2.01	0.42
1:f:284:TYR:HB3	1:f:650:LEU:HD13	2.02	0.42
1:f:286:ASP:O	1:f:364:CYS:HA	2.19	0.42
1:f:627:THR:CG2	1:g:610:GLN:HE21	2.25	0.42
1:g:286:ASP:O	1:g:364:CYS:HA	2.20	0.42
1:i:286:ASP:O	1:i:364:CYS:HA	2.19	0.42
1:m:290:PHE:HB2	1:m:616:LEU:O	2.20	0.42
1:m:338:ASN:ND2	1:m:341:SER:OG	2.53	0.42
1:m:608:VAL:HG12	1:n:630:ASN:HB3	2.02	0.42
1:p:436:LEU:HD21	1:p:738:LEU:HD22	2.01	0.42
1:q:312:LYS:O	1:q:418:PHE:N	2.44	0.42
1:q:552:ARG:NH1	1:q:553:ASP:OD2	2.52	0.42
1:r:608:VAL:HG12	1:s:630:ASN:HB3	2.01	0.42
1:s:338:ASN:ND2	1:s:341:SER:OG	2.53	0.42
1:s:434:ASP:OD1	1:s:434:ASP:N	2.53	0.42
1:u:338:ASN:ND2	1:u:341:SER:OG	2.53	0.42
1:v:286:ASP:O	1:v:364:CYS:HA	2.19	0.42
1:v:338:ASN:ND2	1:v:341:SER:OG	2.53	0.42
1:w:338:ASN:ND2	1:w:341:SER:OG	2.53	0.42
1:w:504:ALA:O	1:w:508:ALA:HB2	2.19	0.42
1:y:290:PHE:HB2	1:y:616:LEU:O	2.20	0.42
1:3:434:ASP:HB2	1:3:478:LYS:HE2	2.01	0.42
1:5:636:LEU:HD11	1:7:481:LEU:HD11	2.02	0.42
1:6:512:HIS:CE1	1:6:515:GLY:HA2	2.54	0.42
1:8:552:ARG:NH1	1:8:553:ASP:OD2	2.52	0.42
1:A:628:ASP:OD2	1:I:425:SER:OG	2.31	0.42
1:B:353:LEU:HG	1:B:401:PHE:HE2	1.84	0.42
1:C:297:ARG:O	1:C:300:GLN:N	2.48	0.42
1:D:622:ALA:HB3	1:D:635:PRO:HG3	2.01	0.42
1:D:636:LEU:HD11	1:P:481:LEU:HD11	2.02	0.42
1:F:407:ARG:O	1:F:408:THR:C	2.63	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:434:ASP:OD1	1:H:434:ASP:N	2.53	0.42
1:I:338:ASN:ND2	1:I:341:SER:OG	2.53	0.42
1:J:434:ASP:N	1:J:434:ASP:OD1	2.53	0.42
1:J:434:ASP:HB2	1:J:478:LYS:HE2	2.01	0.42
1:L:254:ASN:ND2	1:L:377:GLN:HE22	2.17	0.42
1:L:290:PHE:HB2	1:L:616:LEU:O	2.20	0.42
1:M:434:ASP:HB2	1:M:478:LYS:HE2	2.01	0.42
1:N:407:ARG:O	1:N:408:THR:C	2.63	0.42
1:O:284:TYR:HB3	1:O:650:LEU:HD13	2.02	0.42
1:O:290:PHE:HB2	1:O:616:LEU:O	2.20	0.42
1:P:434:ASP:HB2	1:P:478:LYS:HE2	2.01	0.42
1:T:290:PHE:HB2	1:T:616:LEU:O	2.20	0.42
1:T:338:ASN:ND2	1:T:341:SER:OG	2.53	0.42
1:W:504:ALA:O	1:W:508:ALA:HB2	2.19	0.42
1:X:290:PHE:HB2	1:X:616:LEU:O	2.20	0.42
1:Z:290:PHE:HB2	1:Z:616:LEU:O	2.20	0.42
1:a:407:ARG:O	1:a:408:THR:C	2.63	0.42
1:a:416:TYR:OH	1:a:644:HIS:O	2.33	0.42
1:a:552:ARG:NH1	1:a:553:ASP:OD2	2.52	0.42
1:b:622:ALA:HB3	1:b:635:PRO:HG3	2.01	0.42
1:c:504:ALA:O	1:c:508:ALA:HB2	2.19	0.42
1:f:504:ALA:O	1:f:508:ALA:HB2	2.19	0.42
1:f:608:VAL:HG12	1:h:630:ASN:HB3	2.02	0.42
1:g:622:ALA:HB3	1:g:635:PRO:HG3	2.01	0.42
1:h:290:PHE:HB2	1:h:616:LEU:O	2.20	0.42
1:h:338:ASN:ND2	1:h:341:SER:OG	2.53	0.42
1:i:610:GLN:HE21	1:j:627:THR:CG2	2.25	0.42
1:i:622:ALA:HB3	1:i:635:PRO:HG3	2.01	0.42
1:j:284:TYR:HB3	1:j:650:LEU:HD13	2.02	0.42
1:j:718:ASN:ND2	1:j:722:THR:HB	2.31	0.42
1:k:338:ASN:ND2	1:k:341:SER:OG	2.53	0.42
1:k:503:PHE:HA	1:k:506:THR:OG1	2.20	0.42
1:l:284:TYR:HB3	1:l:650:LEU:HD13	2.02	0.42
1:n:286:ASP:O	1:n:364:CYS:HA	2.20	0.42
1:q:503:PHE:HA	1:q:506:THR:OG1	2.20	0.42
1:r:284:TYR:HB3	1:r:650:LEU:HD13	2.02	0.42
1:t:650:LEU:HD13	1:t:650:LEU:HA	1.86	0.42
1:u:503:PHE:HA	1:u:506:THR:OG1	2.20	0.42
1:w:434:ASP:OD1	1:w:434:ASP:N	2.53	0.42
1:w:512:HIS:CE1	1:w:515:GLY:HA2	2.54	0.42
1:w:622:ALA:HB3	1:w:635:PRO:HG3	2.01	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:x:434:ASP:HB2	1:x:478:LYS:HE2	2.01	0.42
1:y:434:ASP:N	1:y:434:ASP:OD1	2.53	0.42
1:1:338:ASN:ND2	1:1:341:SER:OG	2.53	0.42
1:1:473:MET:HE3	1:1:473:MET:HB2	1.86	0.42
1:2:503:PHE:HA	1:2:506:THR:OG1	2.20	0.42
1:3:284:TYR:HB3	1:3:650:LEU:HD13	2.02	0.42
1:5:610:GLN:HE21	1:6:627:THR:CG2	2.25	0.42
1:8:434:ASP:HB2	1:8:478:LYS:HE2	2.01	0.42
1:8:435:ARG:HA	1:8:435:ARG:HD3	1.85	0.42
1:C:636:LEU:HD11	1:M:481:LEU:HD11	2.02	0.41
1:D:481:LEU:HD11	1:N:636:LEU:HD11	2.02	0.41
1:F:627:THR:CG2	1:Q:610:GLN:HE21	2.25	0.41
1:H:254:ASN:ND2	1:H:377:GLN:HE22	2.17	0.41
1:H:290:PHE:HB2	1:H:616:LEU:O	2.20	0.41
1:H:636:LEU:HD11	1:Y:481:LEU:HD11	2.02	0.41
1:H:718:ASN:ND2	1:H:722:THR:HB	2.31	0.41
1:J:407:ARG:O	1:J:408:THR:C	2.63	0.41
1:K:636:LEU:HD11	1:8:481:LEU:HD11	2.02	0.41
1:M:290:PHE:HB2	1:M:616:LEU:O	2.20	0.41
1:M:407:ARG:O	1:M:408:THR:C	2.63	0.41
1:M:434:ASP:N	1:M:434:ASP:OD1	2.53	0.41
1:M:636:LEU:HD11	1:b:481:LEU:HD11	2.02	0.41
1:N:436:LEU:HD21	1:N:738:LEU:HD22	2.00	0.41
1:N:552:ARG:NH1	1:N:553:ASP:OD2	2.52	0.41
1:O:608:VAL:HG12	1:m:630:ASN:HB3	2.02	0.41
1:Q:297:ARG:O	1:Q:300:GLN:N	2.48	0.41
1:U:284:TYR:HB3	1:U:650:LEU:HD13	2.02	0.41
1:U:290:PHE:HB2	1:U:616:LEU:O	2.20	0.41
1:U:297:ARG:O	1:U:300:GLN:N	2.48	0.41
1:V:254:ASN:ND2	1:V:377:GLN:HE22	2.18	0.41
1:V:636:LEU:HD11	1:X:481:LEU:HD11	2.02	0.41
1:X:328:GLN:NE2	1:X:333:LYS:HG3	2.23	0.41
1:X:434:ASP:HB2	1:X:478:LYS:HE2	2.01	0.41
1:X:636:LEU:HD11	1:e:481:LEU:HD11	2.01	0.41
1:Z:286:ASP:O	1:Z:364:CYS:HA	2.19	0.41
1:Z:630:ASN:HB3	1:3:608:VAL:HG12	2.02	0.41
1:b:353:LEU:HG	1:b:401:PHE:HE2	1.84	0.41
1:e:353:LEU:HG	1:e:401:PHE:HE2	1.84	0.41
1:e:407:ARG:O	1:e:408:THR:C	2.63	0.41
1:e:434:ASP:OD1	1:e:434:ASP:N	2.53	0.41
1:e:503:PHE:HA	1:e:506:THR:OG1	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:j:504:ALA:O	1:j:508:ALA:HB2	2.19	0.41
1:j:608:VAL:HG12	1:k:630:ASN:HB3	2.02	0.41
1:l:290:PHE:HB2	1:l:616:LEU:O	2.20	0.41
1:m:286:ASP:O	1:m:364:CYS:HA	2.19	0.41
1:p:290:PHE:HB2	1:p:616:LEU:O	2.20	0.41
1:p:552:ARG:NH1	1:p:553:ASP:OD2	2.52	0.41
1:q:290:PHE:HB2	1:q:616:LEU:O	2.20	0.41
1:s:718:ASN:ND2	1:s:722:THR:HB	2.31	0.41
1:t:284:TYR:HB3	1:t:650:LEU:HD13	2.02	0.41
1:t:630:ASN:HB3	1:v:608:VAL:HG12	2.02	0.41
1:u:435:ARG:HD3	1:u:435:ARG:HA	1.85	0.41
1:u:552:ARG:NH1	1:u:553:ASP:OD2	2.52	0.41
1:v:284:TYR:HB3	1:v:650:LEU:HD13	2.02	0.41
1:w:353:LEU:HG	1:w:401:PHE:HE2	1.84	0.41
1:w:503:PHE:HA	1:w:506:THR:OG1	2.20	0.41
1:x:290:PHE:HB2	1:x:616:LEU:O	2.20	0.41
1:y:254:ASN:ND2	1:y:377:GLN:HE22	2.17	0.41
1:y:284:TYR:HB3	1:y:650:LEU:HD13	2.02	0.41
1:z:284:TYR:HB3	1:z:650:LEU:HD13	2.02	0.41
1:z:385:ASN:HD21	1:2:532:ASP:CG	2.28	0.41
1:1:290:PHE:HB2	1:1:616:LEU:O	2.20	0.41
1:3:290:PHE:HB2	1:3:616:LEU:O	2.20	0.41
1:4:286:ASP:O	1:4:364:CYS:HA	2.19	0.41
1:5:270:THR:HG23	1:5:272:ASP:H	1.83	0.41
1:6:407:ARG:O	1:6:408:THR:C	2.63	0.41
1:6:608:VAL:HG12	1:7:630:ASN:HB3	2.02	0.41
1:A:407:ARG:O	1:A:408:THR:C	2.63	0.41
1:A:435:ARG:HA	1:A:435:ARG:HD3	1.85	0.41
1:B:284:TYR:HB3	1:B:650:LEU:HD13	2.02	0.41
1:B:286:ASP:O	1:B:364:CYS:HA	2.19	0.41
1:B:622:ALA:HB3	1:B:635:PRO:HG3	2.01	0.41
1:C:314:LEU:C	1:C:314:LEU:HD12	2.46	0.41
1:E:610:GLN:HE21	1:Q:627:THR:CG2	2.25	0.41
1:F:290:PHE:HB2	1:F:616:LEU:O	2.20	0.41
1:F:636:LEU:HD11	1:Q:481:LEU:HD11	2.02	0.41
1:J:290:PHE:HB2	1:J:616:LEU:O	2.20	0.41
1:J:314:LEU:HD12	1:J:314:LEU:C	2.45	0.41
1:J:481:LEU:HD11	1:L:636:LEU:HD11	2.02	0.41
1:L:314:LEU:C	1:L:314:LEU:HD12	2.46	0.41
1:O:481:LEU:HD11	1:m:636:LEU:HD11	2.02	0.41
1:P:407:ARG:O	1:P:408:THR:C	2.63	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:P:434:ASP:OD1	1:P:434:ASP:N	2.53	0.41
1:Q:270:THR:HG23	1:Q:272:ASP:H	1.84	0.41
1:Q:338:ASN:ND2	1:Q:341:SER:OG	2.53	0.41
1:R:284:TYR:HB3	1:R:650:LEU:HD13	2.02	0.41
1:R:314:LEU:HD12	1:R:314:LEU:C	2.45	0.41
1:R:622:ALA:HB3	1:R:635:PRO:HG3	2.01	0.41
1:S:503:PHE:HA	1:S:506:THR:OG1	2.20	0.41
1:T:622:ALA:HB3	1:T:635:PRO:HG3	2.01	0.41
1:V:284:TYR:HB3	1:V:650:LEU:HD13	2.02	0.41
1:W:290:PHE:HB2	1:W:616:LEU:O	2.20	0.41
1:W:314:LEU:C	1:W:314:LEU:HD12	2.45	0.41
1:W:481:LEU:HD11	1:Y:636:LEU:HD11	2.02	0.41
1:X:407:ARG:C	1:X:409:GLY:N	2.76	0.41
1:X:434:ASP:OD1	1:X:434:ASP:N	2.53	0.41
1:Z:312:LYS:O	1:Z:418:PHE:N	2.44	0.41
1:a:284:TYR:HB3	1:a:650:LEU:HD13	2.02	0.41
1:d:481:LEU:HD11	1:l:636:LEU:HD11	2.02	0.41
1:h:314:LEU:C	1:h:314:LEU:HD12	2.45	0.41
1:h:503:PHE:HA	1:h:506:THR:OG1	2.20	0.41
1:i:608:VAL:HG12	1:j:630:ASN:HB3	2.02	0.41
1:o:407:ARG:O	1:o:408:THR:C	2.63	0.41
1:q:314:LEU:C	1:q:314:LEU:HD12	2.45	0.41
1:q:504:ALA:O	1:q:508:ALA:HB2	2.19	0.41
1:s:290:PHE:HB2	1:s:616:LEU:O	2.20	0.41
1:s:353:LEU:HG	1:s:401:PHE:HE2	1.84	0.41
1:t:314:LEU:C	1:t:314:LEU:HD12	2.46	0.41
1:u:608:VAL:HG12	1:v:630:ASN:HB3	2.02	0.41
1:v:290:PHE:HB2	1:v:616:LEU:O	2.20	0.41
1:v:473:MET:HE3	1:v:473:MET:HB2	1.86	0.41
1:w:407:ARG:O	1:w:408:THR:C	2.63	0.41
1:z:290:PHE:HB2	1:z:616:LEU:O	2.20	0.41
1:1:552:ARG:NH1	1:1:553:ASP:OD2	2.52	0.41
1:1:622:ALA:HB3	1:1:635:PRO:HG3	2.01	0.41
1:5:297:ARG:O	1:5:300:GLN:N	2.48	0.41
1:5:338:ASN:ND2	1:5:341:SER:OG	2.53	0.41
1:6:290:PHE:HB2	1:6:616:LEU:O	2.20	0.41
1:B:481:LEU:HD11	1:J:636:LEU:HD11	2.02	0.41
1:E:284:TYR:HB3	1:E:650:LEU:HD13	2.02	0.41
1:G:290:PHE:HB2	1:G:616:LEU:O	2.20	0.41
1:G:532:ASP:CG	1:I:385:ASN:HD21	2.28	0.41
1:G:552:ARG:NH1	1:G:553:ASP:OD2	2.52	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:608:VAL:HG12	1:I:630:ASN:HB3	2.02	0.41
1:H:353:LEU:HG	1:H:401:PHE:HE2	1.84	0.41
1:I:434:ASP:HB2	1:I:478:LYS:HE2	2.01	0.41
1:I:503:PHE:HA	1:I:506:THR:OG1	2.20	0.41
1:K:338:ASN:ND2	1:K:341:SER:OG	2.53	0.41
1:L:297:ARG:O	1:L:300:GLN:N	2.48	0.41
1:M:314:LEU:C	1:M:314:LEU:HD12	2.45	0.41
1:R:630:ASN:HB3	1:U:608:VAL:HG12	2.02	0.41
1:S:314:LEU:C	1:S:314:LEU:HD12	2.45	0.41
1:S:481:LEU:HD11	1:U:636:LEU:HD11	2.01	0.41
1:S:552:ARG:NH1	1:S:553:ASP:OD2	2.52	0.41
1:T:385:ASN:HD21	1:l:532:ASP:CG	2.28	0.41
1:T:552:ARG:NH1	1:T:553:ASP:OD2	2.52	0.41
1:X:338:ASN:ND2	1:X:341:SER:OG	2.53	0.41
1:Z:636:LEU:HD11	1:3:481:LEU:HD11	2.02	0.41
1:a:290:PHE:HB2	1:a:616:LEU:O	2.20	0.41
1:b:286:ASP:O	1:b:364:CYS:HA	2.19	0.41
1:c:636:LEU:HD11	1:p:481:LEU:HD11	2.02	0.41
1:d:490:ARG:HB2	1:d:576:THR:HB	2.03	0.41
1:f:290:PHE:HB2	1:f:616:LEU:O	2.20	0.41
1:f:314:LEU:C	1:f:314:LEU:HD12	2.45	0.41
1:g:636:LEU:HD11	1:h:481:LEU:HD11	2.02	0.41
1:j:286:ASP:O	1:j:364:CYS:HA	2.19	0.41
1:k:254:ASN:ND2	1:k:377:GLN:HE22	2.18	0.41
1:k:314:LEU:C	1:k:314:LEU:HD12	2.46	0.41
1:m:314:LEU:HD12	1:m:314:LEU:C	2.46	0.41
1:o:297:ARG:O	1:o:300:GLN:N	2.48	0.41
1:o:435:ARG:HA	1:o:435:ARG:HD3	1.85	0.41
1:p:284:TYR:HB3	1:p:650:LEU:HD13	2.02	0.41
1:p:416:TYR:OH	1:p:644:HIS:O	2.33	0.41
1:r:503:PHE:HA	1:r:506:THR:OG1	2.20	0.41
1:s:254:ASN:ND2	1:s:377:GLN:HE22	2.17	0.41
1:s:650:LEU:HD13	1:s:650:LEU:HA	1.86	0.41
1:u:286:ASP:O	1:u:364:CYS:HA	2.19	0.41
1:u:314:LEU:HD12	1:u:314:LEU:C	2.46	0.41
1:w:290:PHE:HB2	1:w:616:LEU:O	2.20	0.41
1:x:434:ASP:N	1:x:434:ASP:OD1	2.53	0.41
1:z:718:ASN:ND2	1:z:722:THR:HB	2.31	0.41
1:1:608:VAL:HG12	1:2:630:ASN:HB3	2.02	0.41
1:6:503:PHE:HA	1:6:506:THR:OG1	2.20	0.41
1:7:284:TYR:HB3	1:7:650:LEU:HD13	2.02	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:7:407:ARG:O	1:7:408:THR:C	2.63	0.41
1:8:407:ARG:O	1:8:408:THR:C	2.63	0.41
1:8:434:ASP:OD1	1:8:434:ASP:N	2.53	0.41
1:B:630:ASN:HB3	1:L:608:VAL:HG12	2.01	0.41
1:C:503:PHE:HA	1:C:506:THR:OG1	2.20	0.41
1:C:608:VAL:HG12	1:b:630:ASN:HB3	2.01	0.41
1:D:314:LEU:HD12	1:D:314:LEU:C	2.45	0.41
1:D:338:ASN:ND2	1:D:341:SER:OG	2.53	0.41
1:E:290:PHE:HB2	1:E:616:LEU:O	2.20	0.41
1:E:314:LEU:HD12	1:E:314:LEU:C	2.46	0.41
1:E:407:ARG:O	1:E:408:THR:C	2.63	0.41
1:E:622:ALA:HB3	1:E:635:PRO:HG3	2.01	0.41
1:E:630:ASN:HB3	1:F:608:VAL:HG12	2.02	0.41
1:G:284:TYR:HB3	1:G:650:LEU:HD13	2.02	0.41
1:H:286:ASP:O	1:H:364:CYS:HA	2.20	0.41
1:K:432:SER:HA	1:K:570:THR:HB	2.03	0.41
1:K:628:ASP:OD2	1:8:425:SER:OG	2.30	0.41
1:M:338:ASN:ND2	1:M:341:SER:OG	2.53	0.41
1:M:446:TYR:CE1	1:M:467:GLN:HG3	2.56	0.41
1:N:284:TYR:HB3	1:N:650:LEU:HD13	2.02	0.41
1:N:290:PHE:HB2	1:N:616:LEU:O	2.20	0.41
1:O:407:ARG:O	1:O:408:THR:C	2.63	0.41
1:O:490:ARG:HB2	1:O:576:THR:HB	2.03	0.41
1:R:552:ARG:NH1	1:R:553:ASP:OD2	2.52	0.41
1:S:286:ASP:O	1:S:364:CYS:HA	2.19	0.41
1:S:490:ARG:HB2	1:S:576:THR:HB	2.03	0.41
1:T:254:ASN:ND2	1:T:377:GLN:HE22	2.18	0.41
1:V:490:ARG:HB2	1:V:576:THR:HB	2.03	0.41
1:V:608:VAL:HG12	1:e:630:ASN:HB3	2.02	0.41
1:V:630:ASN:HB3	1:X:608:VAL:HG12	2.02	0.41
1:X:432:SER:HA	1:X:570:THR:HB	2.03	0.41
1:Y:290:PHE:HB2	1:Y:616:LEU:O	2.20	0.41
1:Y:503:PHE:HA	1:Y:506:THR:OG1	2.20	0.41
1:Z:314:LEU:C	1:Z:314:LEU:HD12	2.46	0.41
1:Z:432:SER:HA	1:Z:570:THR:HB	2.03	0.41
1:b:284:TYR:HB3	1:b:650:LEU:HD13	2.02	0.41
1:c:503:PHE:HA	1:c:506:THR:OG1	2.20	0.41
1:d:338:ASN:ND2	1:d:341:SER:OG	2.53	0.41
1:e:290:PHE:HB2	1:e:616:LEU:O	2.20	0.41
1:e:314:LEU:HD12	1:e:314:LEU:C	2.45	0.41
1:g:290:PHE:HB2	1:g:616:LEU:O	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:h:254:ASN:ND2	1:h:377:GLN:HE22	2.17	0.41
1:i:290:PHE:HB2	1:i:616:LEU:O	2.20	0.41
1:i:432:SER:HA	1:i:570:THR:HB	2.03	0.41
1:j:314:LEU:C	1:j:314:LEU:HD12	2.46	0.41
1:l:260:GLN:NE2	1:l:276:PHE:CE1	2.88	0.41
1:m:432:SER:HA	1:m:570:THR:HB	2.03	0.41
1:n:290:PHE:HB2	1:n:616:LEU:O	2.20	0.41
1:q:481:LEU:HD11	1:r:636:LEU:HD11	2.02	0.41
1:r:290:PHE:HB2	1:r:616:LEU:O	2.20	0.41
1:r:473:MET:HE3	1:r:473:MET:HB2	1.86	0.41
1:r:610:GLN:HE21	1:s:627:THR:CG2	2.25	0.41
1:t:353:LEU:HG	1:t:401:PHE:HE2	1.84	0.41
1:t:552:ARG:NH1	1:t:553:ASP:OD2	2.52	0.41
1:t:622:ALA:HB3	1:t:635:PRO:HG3	2.01	0.41
1:u:490:ARG:HB2	1:u:576:THR:HB	2.03	0.41
1:v:432:SER:HA	1:v:570:THR:HB	2.03	0.41
1:w:446:TYR:CE1	1:w:467:GLN:HG3	2.56	0.41
1:w:630:ASN:HB3	1:y:608:VAL:HG12	2.02	0.41
1:x:407:ARG:C	1:x:409:GLY:N	2.76	0.41
1:y:490:ARG:HB2	1:y:576:THR:HB	2.03	0.41
1:z:260:GLN:NE2	1:z:276:PHE:CE1	2.88	0.41
1:1:254:ASN:ND2	1:1:377:GLN:HE22	2.18	0.41
1:2:338:ASN:ND2	1:2:341:SER:OG	2.53	0.41
1:2:490:ARG:HB2	1:2:576:THR:HB	2.03	0.41
1:3:490:ARG:HB2	1:3:576:THR:HB	2.03	0.41
1:6:434:ASP:HB2	1:6:478:LYS:HE2	2.01	0.41
1:7:290:PHE:HB2	1:7:616:LEU:O	2.20	0.41
1:7:314:LEU:HD12	1:7:314:LEU:C	2.45	0.41
1:7:622:ALA:HB3	1:7:635:PRO:HG3	2.01	0.41
1:8:286:ASP:O	1:8:364:CYS:HA	2.19	0.41
1:B:338:ASN:ND2	1:B:341:SER:OG	2.53	0.41
1:B:636:LEU:HD11	1:L:481:LEU:HD11	2.02	0.41
1:C:490:ARG:HB2	1:C:576:THR:HB	2.03	0.41
1:F:434:ASP:HB2	1:F:478:LYS:HE2	2.01	0.41
1:F:503:PHE:HA	1:F:506:THR:OG1	2.20	0.41
1:G:407:ARG:C	1:G:409:GLY:N	2.76	0.41
1:H:312:LYS:O	1:H:418:PHE:N	2.44	0.41
1:H:446:TYR:CE1	1:H:467:GLN:HG3	2.56	0.41
1:J:338:ASN:ND2	1:J:341:SER:OG	2.53	0.41
1:J:446:TYR:CE1	1:J:467:GLN:HG3	2.56	0.41
1:K:314:LEU:HD12	1:K:314:LEU:C	2.46	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:435:ARG:HA	1:N:435:ARG:HD3	1.85	0.41
1:P:622:ALA:HB3	1:P:635:PRO:HG3	2.01	0.41
1:Q:314:LEU:C	1:Q:314:LEU:HD12	2.46	0.41
1:Q:407:ARG:C	1:Q:409:GLY:N	2.76	0.41
1:Q:490:ARG:HB2	1:Q:576:THR:HB	2.03	0.41
1:Q:622:ALA:HB3	1:Q:635:PRO:HG3	2.01	0.41
1:R:636:LEU:HD11	1:U:481:LEU:HD11	2.01	0.41
1:R:650:LEU:HD13	1:R:650:LEU:HA	1.86	0.41
1:T:718:ASN:ND2	1:T:722:THR:HB	2.31	0.41
1:U:432:SER:HA	1:U:570:THR:HB	2.03	0.41
1:U:446:TYR:CE1	1:U:467:GLN:HG3	2.56	0.41
1:V:314:LEU:C	1:V:314:LEU:HD12	2.45	0.41
1:V:407:ARG:O	1:V:408:THR:C	2.63	0.41
1:W:446:TYR:CE1	1:W:467:GLN:HG3	2.56	0.41
1:X:286:ASP:O	1:X:364:CYS:HA	2.19	0.41
1:Z:446:TYR:CE1	1:Z:467:GLN:HG3	2.56	0.41
1:Z:481:LEU:HD11	1:4:636:LEU:HD11	2.03	0.41
1:c:434:ASP:HB2	1:c:478:LYS:HE2	2.01	0.41
1:c:481:LEU:HD11	1:o:636:LEU:HD11	2.02	0.41
1:f:630:ASN:HB3	1:g:608:VAL:HG12	2.02	0.41
1:g:385:ASN:HD21	1:h:532:ASP:CG	2.29	0.41
1:g:434:ASP:N	1:g:434:ASP:OD1	2.53	0.41
1:h:432:SER:HA	1:h:570:THR:HB	2.03	0.41
1:i:385:ASN:HD21	1:k:532:ASP:CG	2.29	0.41
1:j:290:PHE:HB2	1:j:616:LEU:O	2.20	0.41
1:l:718:ASN:ND2	1:l:722:THR:HB	2.31	0.41
1:p:407:ARG:C	1:p:409:GLY:N	2.76	0.41
1:q:385:ASN:HD21	1:s:532:ASP:CG	2.29	0.41
1:q:446:TYR:CE1	1:q:467:GLN:HG3	2.56	0.41
1:r:434:ASP:HB2	1:r:478:LYS:HE2	2.01	0.41
1:s:286:ASP:O	1:s:364:CYS:HA	2.19	0.41
1:t:407:ARG:O	1:t:408:THR:C	2.63	0.41
1:v:297:ARG:O	1:v:300:GLN:N	2.48	0.41
1:v:446:TYR:CE1	1:v:467:GLN:HG3	2.56	0.41
1:v:503:PHE:HA	1:v:506:THR:OG1	2.20	0.41
1:w:314:LEU:C	1:w:314:LEU:HD12	2.46	0.41
1:x:338:ASN:ND2	1:x:341:SER:OG	2.53	0.41
1:x:432:SER:HA	1:x:570:THR:HB	2.03	0.41
1:x:490:ARG:HB2	1:x:576:THR:HB	2.03	0.41
1:y:407:ARG:O	1:y:408:THR:C	2.63	0.41
1:1:532:ASP:CG	1:2:385:ASN:HD21	2.28	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:2:432:SER:HA	1:2:570:THR:HB	2.03	0.41
1:3:407:ARG:O	1:3:408:THR:C	2.63	0.41
1:5:314:LEU:C	1:5:314:LEU:HD12	2.46	0.41
1:5:622:ALA:HB3	1:5:635:PRO:HG3	2.01	0.41
1:6:312:LYS:HA	1:6:312:LYS:HD2	1.88	0.41
1:6:314:LEU:HD12	1:6:314:LEU:C	2.45	0.41
1:8:432:SER:HA	1:8:570:THR:HB	2.03	0.41
1:A:290:PHE:HB2	1:A:616:LEU:O	2.20	0.41
1:A:297:ARG:O	1:A:300:GLN:N	2.48	0.41
1:A:490:ARG:HB2	1:A:576:THR:HB	2.03	0.41
1:C:481:LEU:HD11	1:b:636:LEU:HD11	2.02	0.41
1:D:432:SER:HA	1:D:570:THR:HB	2.03	0.41
1:F:314:LEU:C	1:F:314:LEU:HD12	2.45	0.41
1:F:385:ASN:HD21	1:Q:532:ASP:CG	2.29	0.41
1:H:627:THR:CG2	1:Y:610:GLN:HE21	2.25	0.41
1:I:290:PHE:HB2	1:I:616:LEU:O	2.20	0.41
1:I:314:LEU:C	1:I:314:LEU:HD12	2.46	0.41
1:J:503:PHE:HA	1:J:506:THR:OG1	2.20	0.41
1:K:608:VAL:HG12	1:a:630:ASN:HB3	2.02	0.41
1:L:446:TYR:CE1	1:L:467:GLN:HG3	2.56	0.41
1:L:490:ARG:HB2	1:L:576:THR:HB	2.03	0.41
1:M:503:PHE:HA	1:M:506:THR:OG1	2.20	0.41
1:M:650:LEU:HD13	1:M:650:LEU:HA	1.86	0.41
1:P:286:ASP:O	1:P:364:CYS:HA	2.19	0.41
1:P:432:SER:HA	1:P:570:THR:HB	2.03	0.41
1:P:446:TYR:CE1	1:P:467:GLN:HG3	2.56	0.41
1:Q:432:SER:HA	1:Q:570:THR:HB	2.03	0.41
1:R:407:ARG:O	1:R:408:THR:C	2.63	0.41
1:S:233:SER:OG	1:S:298:ASP:OD2	2.34	0.41
1:T:434:ASP:HB2	1:T:478:LYS:HE2	2.01	0.41
1:T:636:LEU:HD11	1:l:481:LEU:HD11	2.02	0.41
1:U:503:PHE:HA	1:U:506:THR:OG1	2.20	0.41
1:X:407:ARG:O	1:X:408:THR:C	2.63	0.41
1:X:490:ARG:HB2	1:X:576:THR:HB	2.03	0.41
1:Y:407:ARG:O	1:Y:408:THR:C	2.63	0.41
1:Y:434:ASP:HB2	1:Y:478:LYS:HE2	2.01	0.41
1:a:338:ASN:ND2	1:a:341:SER:OG	2.53	0.41
1:a:446:TYR:CE1	1:a:467:GLN:HG3	2.56	0.41
1:c:290:PHE:HB2	1:c:616:LEU:O	2.20	0.41
1:d:432:SER:HA	1:d:570:THR:HB	2.03	0.41
1:e:446:TYR:CE1	1:e:467:GLN:HG3	2.56	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:f:385:ASN:HD21	1:g:532:ASP:CG	2.29	0.41
1:g:432:SER:HA	1:g:570:THR:HB	2.03	0.41
1:k:432:SER:HA	1:k:570:THR:HB	2.03	0.41
1:m:312:LYS:O	1:m:418:PHE:N	2.44	0.41
1:m:446:TYR:CE1	1:m:467:GLN:HG3	2.56	0.41
1:n:314:LEU:C	1:n:314:LEU:HD12	2.46	0.41
1:o:608:VAL:HG12	1:p:630:ASN:HB3	2.02	0.41
1:r:407:ARG:O	1:r:408:THR:C	2.63	0.41
1:r:432:SER:HA	1:r:570:THR:HB	2.03	0.41
1:s:446:TYR:CE1	1:s:467:GLN:HG3	2.56	0.41
1:u:425:SER:OG	1:v:628:ASP:OD2	2.29	0.41
1:v:260:GLN:NE2	1:v:276:PHE:CE1	2.88	0.41
1:y:314:LEU:C	1:y:314:LEU:HD12	2.45	0.41
1:y:622:ALA:HB3	1:y:635:PRO:HG3	2.01	0.41
1:1:284:TYR:HB3	1:1:650:LEU:HD13	2.02	0.41
1:1:434:ASP:HB2	1:1:478:LYS:HE2	2.01	0.41
1:3:446:TYR:CE1	1:3:467:GLN:HG3	2.56	0.41
1:4:314:LEU:C	1:4:314:LEU:HD12	2.46	0.41
1:4:446:TYR:CE1	1:4:467:GLN:HG3	2.56	0.41
1:5:432:SER:HA	1:5:570:THR:HB	2.03	0.41
1:5:490:ARG:HB2	1:5:576:THR:HB	2.03	0.41
1:8:622:ALA:HB3	1:8:635:PRO:HG3	2.01	0.41
1:8:650:LEU:HD13	1:8:650:LEU:HA	1.87	0.41
1:B:385:ASN:HD21	1:L:532:ASP:CG	2.28	0.41
1:B:432:SER:HA	1:B:570:THR:HB	2.03	0.41
1:B:532:ASP:CG	1:J:385:ASN:HD21	2.29	0.41
1:C:434:ASP:HB2	1:C:478:LYS:HE2	2.01	0.41
1:C:446:TYR:CE1	1:C:467:GLN:HG3	2.56	0.41
1:D:608:VAL:HG12	1:N:630:ASN:HB3	2.02	0.41
1:F:622:ALA:HB3	1:F:635:PRO:HG3	2.01	0.41
1:H:650:LEU:HD13	1:H:650:LEU:HA	1.86	0.41
1:I:446:TYR:CE1	1:I:467:GLN:HG3	2.56	0.41
1:K:481:LEU:HD11	1:a:636:LEU:HD11	2.02	0.41
1:L:284:TYR:HB3	1:L:650:LEU:HD13	2.02	0.41
1:L:434:ASP:HB2	1:L:478:LYS:HE2	2.01	0.41
1:L:503:PHE:HA	1:L:506:THR:OG1	2.20	0.41
1:M:385:ASN:HD21	1:b:532:ASP:CG	2.29	0.41
1:O:385:ASN:HD21	1:n:532:ASP:CG	2.29	0.41
1:O:434:ASP:OD1	1:O:434:ASP:N	2.53	0.41
1:O:446:TYR:CE1	1:O:467:GLN:HG3	2.56	0.41
1:R:338:ASN:ND2	1:R:341:SER:OG	2.53	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:R:353:LEU:HG	1:R:401:PHE:HE2	1.84	0.41
1:R:446:TYR:CE1	1:R:467:GLN:HG3	2.56	0.41
1:S:290:PHE:HB2	1:S:616:LEU:O	2.20	0.41
1:V:622:ALA:HB3	1:V:635:PRO:HG3	2.01	0.41
1:Y:260:GLN:NE2	1:Y:276:PHE:CE1	2.88	0.41
1:Y:432:SER:HA	1:Y:570:THR:HB	2.03	0.41
1:b:338:ASN:ND2	1:b:341:SER:OG	2.53	0.41
1:b:432:SER:HA	1:b:570:THR:HB	2.03	0.41
1:c:314:LEU:C	1:c:314:LEU:HD12	2.46	0.41
1:f:481:LEU:HD11	1:h:636:LEU:HD11	2.02	0.41
1:f:636:LEU:HD11	1:g:481:LEU:HD11	2.02	0.41
1:g:314:LEU:C	1:g:314:LEU:HD12	2.46	0.41
1:g:490:ARG:HB2	1:g:576:THR:HB	2.03	0.41
1:i:314:LEU:C	1:i:314:LEU:HD12	2.46	0.41
1:i:434:ASP:OD1	1:i:434:ASP:N	2.53	0.41
1:i:490:ARG:HB2	1:i:576:THR:HB	2.03	0.41
1:i:636:LEU:HD11	1:k:481:LEU:HD11	2.02	0.41
1:o:446:TYR:CE1	1:o:467:GLN:HG3	2.56	0.41
1:o:490:ARG:HB2	1:o:576:THR:HB	2.03	0.41
1:t:446:TYR:CE1	1:t:467:GLN:HG3	2.56	0.41
1:t:481:LEU:HD11	1:u:636:LEU:HD11	2.02	0.41
1:t:636:LEU:HD11	1:v:481:LEU:HD11	2.02	0.41
1:w:284:TYR:HB3	1:w:650:LEU:HD13	2.02	0.41
1:w:608:VAL:HG12	1:x:630:ASN:HB3	2.02	0.41
1:w:636:LEU:HD11	1:y:481:LEU:HD11	2.02	0.41
1:x:286:ASP:O	1:x:364:CYS:HA	2.19	0.41
1:x:407:ARG:O	1:x:408:THR:C	2.63	0.41
1:z:532:ASP:CG	1:1:385:ASN:HD21	2.29	0.41
1:1:490:ARG:HB2	1:1:576:THR:HB	2.03	0.41
1:3:434:ASP:OD1	1:3:434:ASP:N	2.53	0.41
1:3:630:ASN:HB3	1:4:608:VAL:HG12	2.02	0.41
1:4:290:PHE:HB2	1:4:616:LEU:O	2.20	0.41
1:6:260:GLN:NE2	1:6:276:PHE:CE1	2.88	0.41
1:6:481:LEU:HD11	1:7:636:LEU:HD11	2.02	0.41
1:8:446:TYR:CE1	1:8:467:GLN:HG3	2.56	0.41
1:C:532:ASP:CG	1:b:385:ASN:HD21	2.29	0.41
1:E:636:LEU:HD11	1:F:481:LEU:HD11	2.02	0.41
1:H:233:SER:OG	1:H:298:ASP:OD2	2.34	0.41
1:H:385:ASN:HD21	1:Y:532:ASP:CG	2.29	0.41
1:H:503:PHE:HA	1:H:506:THR:OG1	2.20	0.41
1:L:338:ASN:ND2	1:L:341:SER:OG	2.53	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:338:ASN:ND2	1:N:341:SER:OG	2.53	0.41
1:N:425:SER:OG	1:P:628:ASP:OD2	2.30	0.41
1:N:446:TYR:CE1	1:N:467:GLN:HG3	2.56	0.41
1:O:432:SER:HA	1:O:570:THR:HB	2.03	0.41
1:O:630:ASN:HB3	1:n:608:VAL:HG12	2.02	0.41
1:R:490:ARG:HB2	1:R:576:THR:HB	2.03	0.41
1:S:284:TYR:HB3	1:S:650:LEU:HD13	2.02	0.41
1:S:608:VAL:HG12	1:U:630:ASN:HB3	2.02	0.41
1:S:622:ALA:HB3	1:S:635:PRO:HG3	2.01	0.41
1:T:490:ARG:HB2	1:T:576:THR:HB	2.03	0.41
1:V:432:SER:HA	1:V:570:THR:HB	2.03	0.41
1:V:481:LEU:HD11	1:e:636:LEU:HD11	2.02	0.41
1:W:284:TYR:HB3	1:W:650:LEU:HD13	2.02	0.41
1:Y:473:MET:HE3	1:Y:473:MET:HB2	1.86	0.41
1:a:314:LEU:C	1:a:314:LEU:HD12	2.45	0.41
1:a:435:ARG:HA	1:a:435:ARG:HD3	1.85	0.41
1:c:385:ASN:HD21	1:p:532:ASP:CG	2.29	0.41
1:c:446:TYR:CE1	1:c:467:GLN:HG3	2.56	0.41
1:c:630:ASN:HB3	1:p:608:VAL:HG12	2.02	0.41
1:e:284:TYR:HB3	1:e:650:LEU:HD13	2.02	0.41
1:n:284:TYR:HB3	1:n:650:LEU:HD13	2.02	0.41
1:p:314:LEU:C	1:p:314:LEU:HD12	2.45	0.41
1:r:260:GLN:NE2	1:r:276:PHE:CE1	2.88	0.41
1:s:432:SER:HA	1:s:570:THR:HB	2.03	0.41
1:t:338:ASN:ND2	1:t:341:SER:OG	2.53	0.41
1:u:233:SER:OG	1:u:298:ASP:OD2	2.34	0.41
1:u:446:TYR:CE1	1:u:467:GLN:HG3	2.56	0.41
1:u:622:ALA:HB3	1:u:635:PRO:HG3	2.01	0.41
1:x:532:ASP:CG	1:y:385:ASN:HD21	2.29	0.41
1:x:608:VAL:HG12	1:y:630:ASN:HB3	2.02	0.41
1:1:718:ASN:ND2	1:1:722:THR:HB	2.31	0.41
1:2:314:LEU:C	1:2:314:LEU:HD12	2.45	0.41
1:3:385:ASN:HD21	1:4:532:ASP:CG	2.29	0.41
1:3:432:SER:HA	1:3:570:THR:HB	2.03	0.41
1:5:532:ASP:CG	1:6:385:ASN:HD21	2.29	0.41
1:6:622:ALA:HB3	1:6:635:PRO:HG3	2.01	0.41
1:A:314:LEU:C	1:A:314:LEU:HD12	2.45	0.41
1:A:446:TYR:CE1	1:A:467:GLN:HG3	2.56	0.41
1:B:260:GLN:NE2	1:B:276:PHE:CE1	2.88	0.41
1:B:314:LEU:HD12	1:B:314:LEU:C	2.46	0.41
1:B:659:ASP:OD1	1:B:659:ASP:N	2.54	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:284:TYR:HB3	1:C:650:LEU:HD13	2.02	0.41
1:C:338:ASN:ND2	1:C:341:SER:OG	2.53	0.41
1:C:630:ASN:HB3	1:M:608:VAL:HG12	2.02	0.41
1:C:718:ASN:ND2	1:C:722:THR:HB	2.31	0.41
1:D:297:ARG:O	1:D:300:GLN:N	2.48	0.41
1:D:446:TYR:CE1	1:D:467:GLN:HG3	2.56	0.41
1:E:659:ASP:N	1:E:659:ASP:OD1	2.54	0.41
1:H:328:GLN:NE2	1:H:333:LYS:HG3	2.23	0.41
1:H:432:SER:HA	1:H:570:THR:HB	2.03	0.41
1:H:532:ASP:CG	1:W:385:ASN:HD21	2.29	0.41
1:I:490:ARG:HB2	1:I:576:THR:HB	2.03	0.41
1:J:608:VAL:HG12	1:L:630:ASN:HB3	2.02	0.41
1:K:284:TYR:HB3	1:K:650:LEU:HD13	2.02	0.41
1:K:446:TYR:CE1	1:K:467:GLN:HG3	2.56	0.41
1:L:368:PHE:HA	1:L:369:PRO:HD3	1.98	0.41
1:N:254:ASN:ND2	1:N:377:GLN:HE22	2.18	0.41
1:N:314:LEU:C	1:N:314:LEU:HD12	2.46	0.41
1:O:659:ASP:OD1	1:O:659:ASP:N	2.54	0.41
1:Q:290:PHE:HB2	1:Q:616:LEU:O	2.20	0.41
1:R:290:PHE:HB2	1:R:616:LEU:O	2.20	0.41
1:S:446:TYR:CE1	1:S:467:GLN:HG3	2.56	0.41
1:S:473:MET:HE3	1:S:473:MET:HB2	1.86	0.41
1:S:561:MET:SD	1:S:727:ARG:HA	2.61	0.41
1:T:284:TYR:HB3	1:T:650:LEU:HD13	2.02	0.41
1:T:446:TYR:CE1	1:T:467:GLN:HG3	2.56	0.41
1:T:561:MET:SD	1:T:727:ARG:HA	2.61	0.41
1:U:314:LEU:C	1:U:314:LEU:HD12	2.45	0.41
1:U:407:ARG:O	1:U:408:THR:C	2.63	0.41
1:U:473:MET:HE3	1:U:473:MET:HB2	1.86	0.41
1:U:490:ARG:HB2	1:U:576:THR:HB	2.03	0.41
1:V:368:PHE:HA	1:V:369:PRO:HD3	1.98	0.41
1:V:385:ASN:HD21	1:X:532:ASP:CG	2.29	0.41
1:W:338:ASN:ND2	1:W:341:SER:OG	2.53	0.41
1:X:446:TYR:CE1	1:X:467:GLN:HG3	2.56	0.41
1:X:561:MET:SD	1:X:727:ARG:HA	2.61	0.41
1:X:630:ASN:HB3	1:e:608:VAL:HG12	2.02	0.41
1:Z:490:ARG:HB2	1:Z:576:THR:HB	2.03	0.41
1:a:254:ASN:ND2	1:a:377:GLN:HE22	2.17	0.41
1:a:260:GLN:NE2	1:a:276:PHE:CE1	2.88	0.41
1:a:425:SER:OG	1:8:628:ASP:OD2	2.30	0.41
1:a:490:ARG:HB2	1:a:576:THR:HB	2.03	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:a:718:ASN:ND2	1:a:722:THR:HB	2.31	0.41
1:b:290:PHE:HB2	1:b:616:LEU:O	2.20	0.41
1:b:314:LEU:C	1:b:314:LEU:HD12	2.46	0.41
1:c:432:SER:HA	1:c:570:THR:HB	2.03	0.41
1:c:490:ARG:HB2	1:c:576:THR:HB	2.03	0.41
1:c:532:ASP:CG	1:o:385:ASN:HD21	2.29	0.41
1:d:314:LEU:C	1:d:314:LEU:HD12	2.46	0.41
1:e:659:ASP:N	1:e:659:ASP:OD1	2.54	0.41
1:f:407:ARG:O	1:f:408:THR:C	2.63	0.41
1:f:659:ASP:N	1:f:659:ASP:OD1	2.54	0.41
1:h:473:MET:HE3	1:h:473:MET:HB2	1.86	0.41
1:k:650:LEU:HD13	1:k:650:LEU:HA	1.87	0.41
1:l:297:ARG:O	1:l:300:GLN:N	2.48	0.41
1:l:312:LYS:O	1:l:418:PHE:N	2.44	0.41
1:l:434:ASP:OD1	1:l:434:ASP:N	2.53	0.41
1:n:446:TYR:CE1	1:n:467:GLN:HG3	2.56	0.41
1:o:290:PHE:HB2	1:o:616:LEU:O	2.20	0.41
1:o:314:LEU:C	1:o:314:LEU:HD12	2.45	0.41
1:p:512:HIS:ND1	1:p:517:ASP:OD1	2.38	0.41
1:q:284:TYR:HB3	1:q:650:LEU:HD13	2.02	0.41
1:q:338:ASN:ND2	1:q:341:SER:OG	2.53	0.41
1:r:532:ASP:CG	1:s:385:ASN:HD21	2.29	0.41
1:s:233:SER:OG	1:s:298:ASP:OD2	2.34	0.41
1:s:312:LYS:O	1:s:418:PHE:N	2.44	0.41
1:s:314:LEU:HD12	1:s:314:LEU:C	2.46	0.41
1:s:328:GLN:NE2	1:s:333:LYS:HG3	2.23	0.41
1:s:407:ARG:O	1:s:408:THR:C	2.63	0.41
1:s:503:PHE:HA	1:s:506:THR:OG1	2.20	0.41
1:t:290:PHE:HB2	1:t:616:LEU:O	2.20	0.41
1:t:490:ARG:HB2	1:t:576:THR:HB	2.03	0.41
1:t:532:ASP:CG	1:u:385:ASN:HD21	2.28	0.41
1:u:290:PHE:HB2	1:u:616:LEU:O	2.20	0.41
1:u:473:MET:HE3	1:u:473:MET:HB2	1.86	0.41
1:u:561:MET:SD	1:u:727:ARG:HA	2.61	0.41
1:v:490:ARG:HB2	1:v:576:THR:HB	2.03	0.41
1:w:385:ASN:HD21	1:y:532:ASP:CG	2.29	0.41
1:w:659:ASP:N	1:w:659:ASP:OD1	2.54	0.41
1:y:432:SER:HA	1:y:570:THR:HB	2.03	0.41
1:z:312:LYS:O	1:z:418:PHE:N	2.44	0.41
1:z:434:ASP:OD1	1:z:434:ASP:N	2.53	0.41
1:1:446:TYR:CE1	1:1:467:GLN:HG3	2.56	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1:481:LEU:HD11	1:2:636:LEU:HD11	2.02	0.41
1:1:561:MET:SD	1:1:727:ARG:HA	2.61	0.41
1:3:314:LEU:C	1:3:314:LEU:HD12	2.46	0.41
1:4:284:TYR:HB3	1:4:650:LEU:HD13	2.02	0.41
1:4:561:MET:SD	1:4:727:ARG:HA	2.61	0.41
1:5:290:PHE:HB2	1:5:616:LEU:O	2.20	0.41
1:5:481:LEU:HD11	1:6:636:LEU:HD11	2.03	0.41
1:6:561:MET:SD	1:6:727:ARG:HA	2.61	0.41
1:7:434:ASP:N	1:7:434:ASP:OD1	2.53	0.41
1:8:314:LEU:HD12	1:8:314:LEU:C	2.46	0.41
1:B:290:PHE:HB2	1:B:616:LEU:O	2.20	0.41
1:D:284:TYR:HB3	1:D:650:LEU:HD13	2.02	0.41
1:E:561:MET:SD	1:E:727:ARG:HA	2.61	0.41
1:F:561:MET:SD	1:F:727:ARG:HA	2.61	0.41
1:G:314:LEU:C	1:G:314:LEU:HD12	2.46	0.41
1:G:659:ASP:OD1	1:G:659:ASP:N	2.54	0.41
1:H:314:LEU:HD12	1:H:314:LEU:C	2.46	0.41
1:H:407:ARG:O	1:H:408:THR:C	2.63	0.41
1:J:650:LEU:HD13	1:J:650:LEU:HA	1.86	0.41
1:K:297:ARG:O	1:K:300:GLN:N	2.48	0.41
1:K:425:SER:OG	1:a:628:ASP:OD2	2.30	0.41
1:K:473:MET:HE3	1:K:473:MET:HB2	1.86	0.41
1:N:260:GLN:NE2	1:N:276:PHE:CE1	2.88	0.41
1:N:718:ASN:ND2	1:N:722:THR:HB	2.31	0.41
1:O:636:LEU:HD11	1:n:481:LEU:HD11	2.02	0.41
1:P:314:LEU:HD12	1:P:314:LEU:C	2.46	0.41
1:Q:407:ARG:O	1:Q:408:THR:C	2.63	0.41
1:R:481:LEU:HD11	1:S:636:LEU:HD11	2.02	0.41
1:T:314:LEU:C	1:T:314:LEU:HD12	2.46	0.41
1:T:434:ASP:N	1:T:434:ASP:OD1	2.53	0.41
1:V:446:TYR:CE1	1:V:467:GLN:HG3	2.56	0.41
1:V:487:ARG:HH22	1:V:578:GLN:HB3	1.86	0.41
1:b:490:ARG:HB2	1:b:576:THR:HB	2.03	0.41
1:b:659:ASP:OD1	1:b:659:ASP:N	2.54	0.41
1:d:254:ASN:ND2	1:d:377:GLN:HE22	2.18	0.41
1:g:446:TYR:CE1	1:g:467:GLN:HG3	2.56	0.41
1:g:718:ASN:ND2	1:g:722:THR:HB	2.31	0.41
1:i:532:ASP:CG	1:j:385:ASN:HD21	2.29	0.41
1:i:718:ASN:ND2	1:i:722:THR:HB	2.31	0.41
1:j:407:ARG:O	1:j:408:THR:C	2.63	0.41
1:j:446:TYR:CE1	1:j:467:GLN:HG3	2.56	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:j:659:ASP:N	1:j:659:ASP:OD1	2.54	0.41
1:k:284:TYR:HB3	1:k:650:LEU:HD13	2.02	0.41
1:m:407:ARG:O	1:m:408:THR:C	2.63	0.41
1:o:434:ASP:OD1	1:o:434:ASP:N	2.53	0.41
1:o:473:MET:HE3	1:o:473:MET:HB2	1.86	0.41
1:o:532:ASP:CG	1:p:385:ASN:HD21	2.28	0.41
1:p:561:MET:SD	1:p:727:ARG:HA	2.61	0.41
1:p:659:ASP:OD1	1:p:659:ASP:N	2.54	0.41
1:t:233:SER:OG	1:t:298:ASP:OD2	2.34	0.41
1:u:284:TYR:HB3	1:u:650:LEU:HD13	2.02	0.41
1:x:314:LEU:C	1:x:314:LEU:HD12	2.45	0.41
1:x:446:TYR:CE1	1:x:467:GLN:HG3	2.56	0.41
1:x:561:MET:SD	1:x:727:ARG:HA	2.61	0.41
1:y:446:TYR:CE1	1:y:467:GLN:HG3	2.56	0.41
1:z:297:ARG:O	1:z:300:GLN:N	2.48	0.41
1:1:314:LEU:C	1:1:314:LEU:HD12	2.46	0.41
1:5:608:VAL:HG12	1:6:630:ASN:HB3	2.01	0.41
1:5:630:ASN:HB3	1:7:608:VAL:HG12	2.02	0.41
1:7:561:MET:SD	1:7:727:ARG:HA	2.61	0.41
1:A:561:MET:SD	1:A:727:ARG:HA	2.61	0.40
1:A:630:ASN:HB3	1:I:608:VAL:HG12	2.03	0.40
1:A:636:LEU:HD11	1:I:481:LEU:HD11	2.03	0.40
1:B:490:ARG:HB2	1:B:576:THR:HB	2.03	0.40
1:E:490:ARG:HB2	1:E:576:THR:HB	2.03	0.40
1:F:490:ARG:HB2	1:F:576:THR:HB	2.03	0.40
1:F:630:ASN:HB3	1:Q:608:VAL:HG12	2.01	0.40
1:G:432:SER:HA	1:G:570:THR:HB	2.03	0.40
1:G:512:HIS:ND1	1:G:517:ASP:OD1	2.38	0.40
1:I:304:ASN:O	1:I:734:LEU:HD11	2.22	0.40
1:I:561:MET:SD	1:I:727:ARG:HA	2.61	0.40
1:I:659:ASP:OD1	1:I:659:ASP:N	2.54	0.40
1:J:659:ASP:OD1	1:J:659:ASP:N	2.54	0.40
1:M:659:ASP:OD1	1:M:659:ASP:N	2.54	0.40
1:N:490:ARG:HB2	1:N:576:THR:HB	2.03	0.40
1:N:532:ASP:CG	1:P:385:ASN:HD21	2.29	0.40
1:O:314:LEU:C	1:O:314:LEU:HD12	2.46	0.40
1:O:652:LYS:NZ	1:O:655:PRO:HD3	2.37	0.40
1:Q:652:LYS:NZ	1:Q:655:PRO:HD3	2.37	0.40
1:V:328:GLN:NE2	1:V:333:LYS:HG3	2.23	0.40
1:V:532:ASP:CG	1:e:385:ASN:HD21	2.29	0.40
1:W:659:ASP:OD1	1:W:659:ASP:N	2.54	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:X:314:LEU:C	1:X:314:LEU:HD12	2.46	0.40
1:Y:314:LEU:C	1:Y:314:LEU:HD12	2.45	0.40
1:Z:407:ARG:O	1:Z:408:THR:C	2.63	0.40
1:a:532:ASP:CG	1:8:385:ASN:HD21	2.29	0.40
1:b:260:GLN:NE2	1:b:276:PHE:CE1	2.88	0.40
1:c:561:MET:SD	1:c:727:ARG:HA	2.61	0.40
1:c:659:ASP:OD1	1:c:659:ASP:N	2.54	0.40
1:d:532:ASP:CG	1:l:385:ASN:HD21	2.29	0.40
1:f:254:ASN:ND2	1:f:377:GLN:HE22	2.18	0.40
1:g:407:ARG:O	1:g:408:THR:C	2.63	0.40
1:g:487:ARG:HH22	1:g:578:GLN:HB3	1.87	0.40
1:h:487:ARG:HH22	1:h:578:GLN:HB3	1.86	0.40
1:h:561:MET:SD	1:h:727:ARG:HA	2.61	0.40
1:i:260:GLN:NE2	1:i:276:PHE:CE1	2.88	0.40
1:i:407:ARG:O	1:i:408:THR:C	2.63	0.40
1:i:446:TYR:CE1	1:i:467:GLN:HG3	2.56	0.40
1:i:473:MET:HE3	1:i:473:MET:HB2	1.86	0.40
1:i:481:LEU:HD11	1:j:636:LEU:HD11	2.02	0.40
1:i:487:ARG:HH22	1:i:578:GLN:HB3	1.87	0.40
1:j:532:ASP:CG	1:k:385:ASN:HD21	2.29	0.40
1:k:473:MET:HE3	1:k:473:MET:HB2	1.86	0.40
1:k:561:MET:SD	1:k:727:ARG:HA	2.61	0.40
1:l:314:LEU:HD12	1:l:314:LEU:C	2.45	0.40
1:l:407:ARG:O	1:l:408:THR:C	2.63	0.40
1:l:432:SER:HA	1:l:570:THR:HB	2.03	0.40
1:l:487:ARG:HH22	1:l:578:GLN:HB3	1.86	0.40
1:l:561:MET:SD	1:l:727:ARG:HA	2.61	0.40
1:m:435:ARG:HA	1:m:435:ARG:HD3	1.85	0.40
1:m:490:ARG:HB2	1:m:576:THR:HB	2.03	0.40
1:n:432:SER:HA	1:n:570:THR:HB	2.03	0.40
1:n:473:MET:HE3	1:n:473:MET:HB2	1.86	0.40
1:n:561:MET:SD	1:n:727:ARG:HA	2.61	0.40
1:p:432:SER:HA	1:p:570:THR:HB	2.03	0.40
1:q:636:LEU:HD11	1:s:481:LEU:HD11	2.02	0.40
1:q:659:ASP:OD1	1:q:659:ASP:N	2.54	0.40
1:s:473:MET:HE3	1:s:473:MET:HB2	1.86	0.40
1:t:659:ASP:OD1	1:t:659:ASP:N	2.54	0.40
1:v:314:LEU:C	1:v:314:LEU:HD12	2.46	0.40
1:w:481:LEU:HD11	1:x:636:LEU:HD11	2.02	0.40
1:x:487:ARG:HH22	1:x:578:GLN:HB3	1.87	0.40
1:y:338:ASN:ND2	1:y:341:SER:OG	2.53	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:y:487:ARG:HH22	1:y:578:GLN:HB3	1.87	0.40
1:z:432:SER:HA	1:z:570:THR:HB	2.03	0.40
1:z:561:MET:SD	1:z:727:ARG:HA	2.61	0.40
1:1:659:ASP:OD1	1:1:659:ASP:N	2.54	0.40
1:4:432:SER:HA	1:4:570:THR:HB	2.03	0.40
1:5:473:MET:HE3	1:5:473:MET:HB2	1.86	0.40
1:6:446:TYR:CE1	1:6:467:GLN:HG3	2.56	0.40
1:A:434:ASP:OD1	1:A:434:ASP:N	2.53	0.40
1:B:304:ASN:O	1:B:734:LEU:HD11	2.22	0.40
1:C:304:ASN:O	1:C:734:LEU:HD11	2.22	0.40
1:D:407:ARG:O	1:D:408:THR:C	2.63	0.40
1:D:434:ASP:OD1	1:D:434:ASP:N	2.53	0.40
1:F:312:LYS:HA	1:F:312:LYS:HD2	1.88	0.40
1:F:446:TYR:CE1	1:F:467:GLN:HG3	2.56	0.40
1:G:561:MET:SD	1:G:727:ARG:HA	2.61	0.40
1:H:652:LYS:NZ	1:H:655:PRO:HD3	2.37	0.40
1:I:432:SER:HA	1:I:570:THR:HB	2.03	0.40
1:J:473:MET:HE3	1:J:473:MET:HB2	1.86	0.40
1:L:304:ASN:O	1:L:734:LEU:HD11	2.22	0.40
1:L:718:ASN:ND2	1:L:722:THR:HB	2.31	0.40
1:P:652:LYS:NZ	1:P:655:PRO:HD3	2.37	0.40
1:P:659:ASP:N	1:P:659:ASP:OD1	2.54	0.40
1:S:304:ASN:O	1:S:734:LEU:HD11	2.22	0.40
1:T:659:ASP:OD1	1:T:659:ASP:N	2.54	0.40
1:U:304:ASN:O	1:U:734:LEU:HD11	2.22	0.40
1:U:561:MET:SD	1:U:727:ARG:HA	2.61	0.40
1:V:338:ASN:ND2	1:V:341:SER:OG	2.53	0.40
1:X:284:TYR:HB3	1:X:650:LEU:HD13	2.02	0.40
1:X:487:ARG:HH22	1:X:578:GLN:HB3	1.87	0.40
1:Z:260:GLN:NE2	1:Z:276:PHE:CE1	2.88	0.40
1:Z:736:ARG:NH2	1:4:626:HIS:CD2	2.89	0.40
1:a:652:LYS:NZ	1:a:655:PRO:HD3	2.37	0.40
1:b:304:ASN:O	1:b:734:LEU:HD11	2.22	0.40
1:c:487:ARG:HH22	1:c:578:GLN:HB3	1.86	0.40
1:f:446:TYR:CE1	1:f:467:GLN:HG3	2.56	0.40
1:g:561:MET:SD	1:g:727:ARG:HA	2.61	0.40
1:h:284:TYR:HB3	1:h:650:LEU:HD13	2.02	0.40
1:h:304:ASN:O	1:h:734:LEU:HD11	2.22	0.40
1:h:650:LEU:HD13	1:h:650:LEU:HA	1.86	0.40
1:k:304:ASN:O	1:k:734:LEU:HD11	2.22	0.40
1:k:487:ARG:HH22	1:k:578:GLN:HB3	1.87	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:k:659:ASP:N	1:k:659:ASP:OD1	2.54	0.40
1:l:490:ARG:HB2	1:l:576:THR:HB	2.03	0.40
1:o:561:MET:SD	1:o:727:ARG:HA	2.61	0.40
1:p:434:ASP:N	1:p:434:ASP:OD1	2.53	0.40
1:p:652:LYS:NZ	1:p:655:PRO:HD3	2.37	0.40
1:r:446:TYR:CE1	1:r:467:GLN:HG3	2.56	0.40
1:s:652:LYS:NZ	1:s:655:PRO:HD3	2.37	0.40
1:t:328:GLN:NE2	1:t:333:LYS:HG3	2.23	0.40
1:v:304:ASN:O	1:v:734:LEU:HD11	2.22	0.40
1:v:561:MET:SD	1:v:727:ARG:HA	2.61	0.40
1:w:254:ASN:ND2	1:w:377:GLN:HE22	2.17	0.40
1:z:314:LEU:HD12	1:z:314:LEU:C	2.45	0.40
1:z:407:ARG:O	1:z:408:THR:C	2.63	0.40
1:z:473:MET:HE3	1:z:473:MET:HB2	1.86	0.40
1:z:487:ARG:HH22	1:z:578:GLN:HB3	1.87	0.40
1:z:490:ARG:HB2	1:z:576:THR:HB	2.03	0.40
1:2:254:ASN:ND2	1:2:377:GLN:HE22	2.18	0.40
1:3:652:LYS:NZ	1:3:655:PRO:HD3	2.37	0.40
1:5:407:ARG:O	1:5:408:THR:C	2.63	0.40
1:5:652:LYS:NZ	1:5:655:PRO:HD3	2.37	0.40
1:6:284:TYR:HB3	1:6:650:LEU:HD13	2.02	0.40
1:6:490:ARG:HB2	1:6:576:THR:HB	2.03	0.40
1:A:608:VAL:HG12	1:G:630:ASN:HB3	2.03	0.40
1:B:487:ARG:HH22	1:B:578:GLN:HB3	1.87	0.40
1:C:561:MET:SD	1:C:727:ARG:HA	2.61	0.40
1:E:432:SER:HA	1:E:570:THR:HB	2.03	0.40
1:E:608:VAL:HG12	1:Q:630:ASN:HB3	2.02	0.40
1:F:284:TYR:HB3	1:F:650:LEU:HD13	2.02	0.40
1:F:652:LYS:NZ	1:F:655:PRO:HD3	2.37	0.40
1:G:434:ASP:N	1:G:434:ASP:OD1	2.53	0.40
1:J:304:ASN:O	1:J:734:LEU:HD11	2.22	0.40
1:K:290:PHE:HB2	1:K:616:LEU:O	2.20	0.40
1:M:304:ASN:O	1:M:734:LEU:HD11	2.22	0.40
1:N:652:LYS:NZ	1:N:655:PRO:HD3	2.37	0.40
1:P:284:TYR:HB3	1:P:650:LEU:HD13	2.02	0.40
1:R:659:ASP:OD1	1:R:659:ASP:N	2.54	0.40
1:S:652:LYS:NZ	1:S:655:PRO:HD3	2.37	0.40
1:W:561:MET:SD	1:W:727:ARG:HA	2.61	0.40
1:Y:446:TYR:CE1	1:Y:467:GLN:HG3	2.56	0.40
1:Y:487:ARG:HH22	1:Y:578:GLN:HB3	1.87	0.40
1:c:304:ASN:O	1:c:734:LEU:HD11	2.22	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:c:434:ASP:OD1	1:c:434:ASP:N	2.53	0.40
1:d:304:ASN:O	1:d:734:LEU:HD11	2.22	0.40
1:d:328:GLN:NE2	1:d:333:LYS:HG3	2.23	0.40
1:d:652:LYS:NZ	1:d:655:PRO:HD3	2.37	0.40
1:e:490:ARG:HB2	1:e:576:THR:HB	2.03	0.40
1:f:561:MET:SD	1:f:727:ARG:HA	2.61	0.40
1:h:490:ARG:HB2	1:h:576:THR:HB	2.03	0.40
1:h:659:ASP:N	1:h:659:ASP:OD1	2.54	0.40
1:i:561:MET:SD	1:i:727:ARG:HA	2.61	0.40
1:j:254:ASN:ND2	1:j:377:GLN:HE22	2.18	0.40
1:l:473:MET:HE3	1:l:473:MET:HB2	1.86	0.40
1:m:532:ASP:CG	1:n:385:ASN:HD21	2.29	0.40
1:q:434:ASP:N	1:q:434:ASP:OD1	2.53	0.40
1:q:652:LYS:NZ	1:q:655:PRO:HD3	2.37	0.40
1:r:314:LEU:C	1:r:314:LEU:HD12	2.46	0.40
1:r:487:ARG:HH22	1:r:578:GLN:HB3	1.87	0.40
1:s:487:ARG:HH22	1:s:578:GLN:HB3	1.87	0.40
1:s:490:ARG:HB2	1:s:576:THR:HB	2.03	0.40
1:t:260:GLN:NE2	1:t:276:PHE:CE1	2.88	0.40
1:u:304:ASN:O	1:u:734:LEU:HD11	2.22	0.40
1:u:652:LYS:NZ	1:u:655:PRO:HD3	2.37	0.40
1:v:407:ARG:O	1:v:408:THR:C	2.63	0.40
1:w:652:LYS:NZ	1:w:655:PRO:HD3	2.37	0.40
1:y:328:GLN:NE2	1:y:333:LYS:HG3	2.23	0.40
1:y:561:MET:SD	1:y:727:ARG:HA	2.61	0.40
1:1:434:ASP:N	1:1:434:ASP:OD1	2.53	0.40
1:2:304:ASN:O	1:2:734:LEU:HD11	2.22	0.40
1:2:328:GLN:NE2	1:2:333:LYS:HG3	2.23	0.40
1:2:407:ARG:O	1:2:408:THR:C	2.63	0.40
1:2:652:LYS:NZ	1:2:655:PRO:HD3	2.37	0.40
1:3:636:LEU:HD11	1:4:481:LEU:HD11	2.02	0.40
1:4:434:ASP:N	1:4:434:ASP:OD1	2.53	0.40
1:4:473:MET:HE3	1:4:473:MET:HB2	1.86	0.40
1:6:652:LYS:NZ	1:6:655:PRO:HD3	2.37	0.40
1:7:432:SER:HA	1:7:570:THR:HB	2.03	0.40
1:7:490:ARG:HB2	1:7:576:THR:HB	2.03	0.40
1:8:284:TYR:HB3	1:8:650:LEU:HD13	2.02	0.40
1:8:561:MET:SD	1:8:727:ARG:HA	2.61	0.40
1:8:652:LYS:NZ	1:8:655:PRO:HD3	2.37	0.40
1:8:659:ASP:N	1:8:659:ASP:OD1	2.54	0.40
1:D:290:PHE:HB2	1:D:616:LEU:O	2.20	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:425:SER:OG	1:N:628:ASP:OD2	2.30	0.40
1:F:452:GLN:HE21	1:F:459:GLY:HA2	1.87	0.40
1:G:652:LYS:NZ	1:G:655:PRO:HD3	2.37	0.40
1:H:473:MET:HE3	1:H:473:MET:HB2	1.86	0.40
1:H:487:ARG:HH22	1:H:578:GLN:HB3	1.87	0.40
1:H:490:ARG:HB2	1:H:576:THR:HB	2.03	0.40
1:I:487:ARG:HH22	1:I:578:GLN:HB3	1.87	0.40
1:J:532:ASP:CG	1:L:385:ASN:HD21	2.29	0.40
1:J:561:MET:SD	1:J:727:ARG:HA	2.61	0.40
1:K:407:ARG:O	1:K:408:THR:C	2.63	0.40
1:K:434:ASP:OD1	1:K:434:ASP:N	2.53	0.40
1:M:561:MET:SD	1:M:727:ARG:HA	2.61	0.40
1:N:561:MET:SD	1:N:727:ARG:HA	2.61	0.40
1:Q:446:TYR:CE1	1:Q:467:GLN:HG3	2.56	0.40
1:R:260:GLN:NE2	1:R:276:PHE:CE1	2.88	0.40
1:T:425:SER:OG	1:d:628:ASP:OD2	2.30	0.40
1:T:481:LEU:HD11	1:d:636:LEU:HD11	2.02	0.40
1:V:260:GLN:NE2	1:V:276:PHE:CE1	2.88	0.40
1:V:435:ARG:HD3	1:V:435:ARG:HA	1.85	0.40
1:V:561:MET:SD	1:V:727:ARG:HA	2.61	0.40
1:W:652:LYS:NZ	1:W:655:PRO:HD3	2.37	0.40
1:Z:385:ASN:HD21	1:3:532:ASP:CG	2.29	0.40
1:a:561:MET:SD	1:a:727:ARG:HA	2.61	0.40
1:b:487:ARG:HH22	1:b:578:GLN:HB3	1.87	0.40
1:b:561:MET:SD	1:b:727:ARG:HA	2.61	0.40
1:d:407:ARG:O	1:d:408:THR:C	2.63	0.40
1:d:473:MET:HE3	1:d:473:MET:HB2	1.86	0.40
1:e:652:LYS:NZ	1:e:655:PRO:HD3	2.37	0.40
1:f:473:MET:HE3	1:f:473:MET:HB2	1.86	0.40
1:f:736:ARG:NH2	1:h:626:HIS:CD2	2.89	0.40
1:j:473:MET:HE3	1:j:473:MET:HB2	1.86	0.40
1:m:260:GLN:NE2	1:m:276:PHE:CE1	2.88	0.40
1:n:434:ASP:N	1:n:434:ASP:OD1	2.53	0.40
1:o:432:SER:HA	1:o:570:THR:HB	2.03	0.40
1:q:561:MET:SD	1:q:727:ARG:HA	2.61	0.40
1:u:481:LEU:HD11	1:v:636:LEU:HD11	2.03	0.40
1:y:260:GLN:NE2	1:y:276:PHE:CE1	2.88	0.40
1:4:490:ARG:HB2	1:4:576:THR:HB	2.03	0.40
1:5:446:TYR:CE1	1:5:467:GLN:HG3	2.56	0.40
1:6:452:GLN:HE21	1:6:459:GLY:HA2	1.87	0.40
1:A:432:SER:HA	1:A:570:THR:HB	2.03	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:446:TYR:CE1	1:B:467:GLN:HG3	2.56	0.40
1:B:561:MET:SD	1:B:727:ARG:HA	2.61	0.40
1:C:434:ASP:N	1:C:434:ASP:OD1	2.53	0.40
1:D:452:GLN:HE21	1:D:459:GLY:HA2	1.87	0.40
1:D:487:ARG:HH22	1:D:578:GLN:HB3	1.86	0.40
1:E:446:TYR:CE1	1:E:467:GLN:HG3	2.56	0.40
1:E:532:ASP:CG	1:Q:385:ASN:HD21	2.29	0.40
1:H:561:MET:SD	1:H:727:ARG:HA	2.61	0.40
1:I:434:ASP:OD1	1:I:434:ASP:N	2.53	0.40
1:J:435:ARG:HD3	1:J:435:ARG:HA	1.85	0.40
1:K:627:THR:CG2	1:8:610:GLN:HE21	2.25	0.40
1:P:561:MET:SD	1:P:727:ARG:HA	2.61	0.40
1:R:304:ASN:O	1:R:734:LEU:HD11	2.22	0.40
1:S:432:SER:HA	1:S:570:THR:HB	2.03	0.40
1:S:659:ASP:OD1	1:S:659:ASP:N	2.54	0.40
1:T:260:GLN:NE2	1:T:276:PHE:CE1	2.88	0.40
1:W:432:SER:HA	1:W:570:THR:HB	2.03	0.40
1:W:434:ASP:N	1:W:434:ASP:OD1	2.53	0.40
1:W:490:ARG:HB2	1:W:576:THR:HB	2.03	0.40
1:X:385:ASN:HD21	1:e:532:ASP:CG	2.29	0.40
1:Y:452:GLN:HE21	1:Y:459:GLY:HA2	1.87	0.40
1:Y:561:MET:SD	1:Y:727:ARG:HA	2.61	0.40
1:Y:652:LYS:NZ	1:Y:655:PRO:HD3	2.37	0.40
1:Z:328:GLN:NE2	1:Z:333:LYS:HG3	2.23	0.40
1:Z:532:ASP:CG	1:4:385:ASN:HD21	2.29	0.40
1:a:608:VAL:HG12	1:8:630:ASN:HB3	2.02	0.40
1:b:446:TYR:CE1	1:b:467:GLN:HG3	2.56	0.40
1:d:284:TYR:HB3	1:d:650:LEU:HD13	2.02	0.40
1:e:254:ASN:ND2	1:e:377:GLN:HE22	2.17	0.40
1:e:304:ASN:O	1:e:734:LEU:HD11	2.22	0.40
1:e:312:LYS:HA	1:e:312:LYS:HD2	1.89	0.40
1:f:304:ASN:O	1:f:734:LEU:HD11	2.22	0.40
1:j:304:ASN:O	1:j:734:LEU:HD11	2.22	0.40
1:j:561:MET:SD	1:j:727:ARG:HA	2.61	0.40
1:k:490:ARG:HB2	1:k:576:THR:HB	2.03	0.40
1:l:446:TYR:CE1	1:l:467:GLN:HG3	2.56	0.40
1:m:328:GLN:NE2	1:m:333:LYS:HG3	2.23	0.40
1:m:652:LYS:NZ	1:m:655:PRO:HD3	2.37	0.40
1:q:432:SER:HA	1:q:570:THR:HB	2.03	0.40
1:q:490:ARG:HB2	1:q:576:THR:HB	2.03	0.40
1:r:304:ASN:O	1:r:734:LEU:HD11	2.22	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:t:304:ASN:O	1:t:734:LEU:HD11	2.22	0.40
1:w:304:ASN:O	1:w:734:LEU:HD11	2.22	0.40
1:w:490:ARG:HB2	1:w:576:THR:HB	2.03	0.40
1:z:481:LEU:HD11	1:1:636:LEU:HD11	2.02	0.40
1:2:284:TYR:HB3	1:2:650:LEU:HD13	2.02	0.40
1:2:561:MET:SD	1:2:727:ARG:HA	2.61	0.40
1:4:435:ARG:HD3	1:4:435:ARG:HA	1.85	0.40
1:5:385:ASN:HD21	1:7:532:ASP:CG	2.29	0.40
1:7:446:TYR:CE1	1:7:467:GLN:HG3	2.56	0.40
1:8:290:PHE:HB2	1:8:616:LEU:O	2.20	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	520/521 (100%)	504 (97%)	14 (3%)	2 (0%)	30 60
1	2	520/521 (100%)	504 (97%)	14 (3%)	2 (0%)	30 60
1	3	520/521 (100%)	504 (97%)	14 (3%)	2 (0%)	30 60
1	4	520/521 (100%)	504 (97%)	14 (3%)	2 (0%)	30 60
1	5	520/521 (100%)	504 (97%)	14 (3%)	2 (0%)	30 60
1	6	520/521 (100%)	504 (97%)	14 (3%)	2 (0%)	30 60
1	7	520/521 (100%)	504 (97%)	14 (3%)	2 (0%)	30 60
1	8	520/521 (100%)	504 (97%)	14 (3%)	2 (0%)	30 60
1	A	520/521 (100%)	504 (97%)	14 (3%)	2 (0%)	30 60
1	B	520/521 (100%)	504 (97%)	14 (3%)	2 (0%)	30 60
1	C	520/521 (100%)	504 (97%)	14 (3%)	2 (0%)	30 60
1	D	520/521 (100%)	504 (97%)	14 (3%)	2 (0%)	30 60

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	E	520/521 (100%)	504 (97%)	14 (3%)	2 (0%)	30	60
1	F	520/521 (100%)	504 (97%)	14 (3%)	2 (0%)	30	60
1	G	520/521 (100%)	504 (97%)	14 (3%)	2 (0%)	30	60
1	H	520/521 (100%)	504 (97%)	14 (3%)	2 (0%)	30	60
1	I	520/521 (100%)	504 (97%)	14 (3%)	2 (0%)	30	60
1	J	520/521 (100%)	504 (97%)	14 (3%)	2 (0%)	30	60
1	K	520/521 (100%)	504 (97%)	14 (3%)	2 (0%)	30	60
1	L	520/521 (100%)	504 (97%)	14 (3%)	2 (0%)	30	60
1	M	520/521 (100%)	504 (97%)	14 (3%)	2 (0%)	30	60
1	N	520/521 (100%)	504 (97%)	14 (3%)	2 (0%)	30	60
1	O	520/521 (100%)	504 (97%)	14 (3%)	2 (0%)	30	60
1	P	520/521 (100%)	504 (97%)	14 (3%)	2 (0%)	30	60
1	Q	520/521 (100%)	504 (97%)	14 (3%)	2 (0%)	30	60
1	R	520/521 (100%)	504 (97%)	14 (3%)	2 (0%)	30	60
1	S	520/521 (100%)	504 (97%)	14 (3%)	2 (0%)	30	60
1	T	520/521 (100%)	504 (97%)	14 (3%)	2 (0%)	30	60
1	U	520/521 (100%)	504 (97%)	14 (3%)	2 (0%)	30	60
1	V	520/521 (100%)	504 (97%)	14 (3%)	2 (0%)	30	60
1	W	520/521 (100%)	504 (97%)	14 (3%)	2 (0%)	30	60
1	X	520/521 (100%)	504 (97%)	14 (3%)	2 (0%)	30	60
1	Y	520/521 (100%)	504 (97%)	14 (3%)	2 (0%)	30	60
1	Z	520/521 (100%)	504 (97%)	14 (3%)	2 (0%)	30	60
1	a	520/521 (100%)	504 (97%)	14 (3%)	2 (0%)	30	60
1	b	520/521 (100%)	504 (97%)	14 (3%)	2 (0%)	30	60
1	c	520/521 (100%)	504 (97%)	14 (3%)	2 (0%)	30	60
1	d	520/521 (100%)	504 (97%)	14 (3%)	2 (0%)	30	60
1	e	520/521 (100%)	504 (97%)	14 (3%)	2 (0%)	30	60
1	f	520/521 (100%)	504 (97%)	14 (3%)	2 (0%)	30	60
1	g	520/521 (100%)	504 (97%)	14 (3%)	2 (0%)	30	60
1	h	520/521 (100%)	504 (97%)	14 (3%)	2 (0%)	30	60
1	i	520/521 (100%)	504 (97%)	14 (3%)	2 (0%)	30	60

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	j	520/521 (100%)	504 (97%)	14 (3%)	2 (0%)	30	60
1	k	520/521 (100%)	504 (97%)	14 (3%)	2 (0%)	30	60
1	l	520/521 (100%)	504 (97%)	14 (3%)	2 (0%)	30	60
1	m	520/521 (100%)	504 (97%)	14 (3%)	2 (0%)	30	60
1	n	520/521 (100%)	504 (97%)	14 (3%)	2 (0%)	30	60
1	o	520/521 (100%)	504 (97%)	14 (3%)	2 (0%)	30	60
1	p	520/521 (100%)	504 (97%)	14 (3%)	2 (0%)	30	60
1	q	520/521 (100%)	504 (97%)	14 (3%)	2 (0%)	30	60
1	r	520/521 (100%)	504 (97%)	14 (3%)	2 (0%)	30	60
1	s	520/521 (100%)	504 (97%)	14 (3%)	2 (0%)	30	60
1	t	520/521 (100%)	504 (97%)	14 (3%)	2 (0%)	30	60
1	u	520/521 (100%)	504 (97%)	14 (3%)	2 (0%)	30	60
1	v	520/521 (100%)	504 (97%)	14 (3%)	2 (0%)	30	60
1	w	520/521 (100%)	504 (97%)	14 (3%)	2 (0%)	30	60
1	x	520/521 (100%)	504 (97%)	14 (3%)	2 (0%)	30	60
1	y	520/521 (100%)	504 (97%)	14 (3%)	2 (0%)	30	60
1	z	520/521 (100%)	504 (97%)	14 (3%)	2 (0%)	30	60
All	All	31200/31260 (100%)	30240 (97%)	840 (3%)	120 (0%)	31	60

All (120) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	A	255	ASN
1	A	408	THR
1	B	255	ASN
1	B	408	THR
1	C	255	ASN
1	C	408	THR
1	D	255	ASN
1	D	408	THR
1	E	255	ASN
1	E	408	THR
1	F	255	ASN
1	F	408	THR
1	G	255	ASN
1	G	408	THR

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Mol	Chain	Res	Type
1	H	255	ASN
1	H	408	THR
1	I	255	ASN
1	I	408	THR
1	J	255	ASN
1	J	408	THR
1	K	255	ASN
1	K	408	THR
1	L	255	ASN
1	L	408	THR
1	M	255	ASN
1	M	408	THR
1	N	255	ASN
1	N	408	THR
1	O	255	ASN
1	O	408	THR
1	P	255	ASN
1	P	408	THR
1	Q	255	ASN
1	Q	408	THR
1	R	255	ASN
1	R	408	THR
1	S	255	ASN
1	S	408	THR
1	T	255	ASN
1	T	408	THR
1	U	255	ASN
1	U	408	THR
1	V	255	ASN
1	V	408	THR
1	W	255	ASN
1	W	408	THR
1	X	255	ASN
1	X	408	THR
1	Y	255	ASN
1	Y	408	THR
1	Z	255	ASN
1	Z	408	THR
1	a	255	ASN
1	a	408	THR
1	b	255	ASN
1	b	408	THR

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Mol	Chain	Res	Type
1	c	255	ASN
1	c	408	THR
1	d	255	ASN
1	d	408	THR
1	e	255	ASN
1	e	408	THR
1	f	255	ASN
1	f	408	THR
1	g	255	ASN
1	g	408	THR
1	h	255	ASN
1	h	408	THR
1	i	255	ASN
1	i	408	THR
1	j	255	ASN
1	j	408	THR
1	k	255	ASN
1	k	408	THR
1	l	255	ASN
1	l	408	THR
1	m	255	ASN
1	m	408	THR
1	n	255	ASN
1	n	408	THR
1	o	255	ASN
1	o	408	THR
1	p	255	ASN
1	p	408	THR
1	q	255	ASN
1	q	408	THR
1	r	255	ASN
1	r	408	THR
1	s	255	ASN
1	s	408	THR
1	t	255	ASN
1	t	408	THR
1	u	255	ASN
1	u	408	THR
1	v	255	ASN
1	v	408	THR
1	w	255	ASN
1	w	408	THR

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Mol	Chain	Res	Type
1	x	255	ASN
1	x	408	THR
1	y	255	ASN
1	y	408	THR
1	z	255	ASN
1	z	408	THR
1	1	255	ASN
1	1	408	THR
1	2	255	ASN
1	2	408	THR
1	3	255	ASN
1	3	408	THR
1	4	255	ASN
1	4	408	THR
1	5	255	ASN
1	5	408	THR
1	6	255	ASN
1	6	408	THR
1	7	255	ASN
1	7	408	THR
1	8	255	ASN
1	8	408	THR

5.3.2 Protein sidechains (i)

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

The Analysed column shows the number of residues for which the sidechain conformation was analysed, and the total number of residues.

Mol	Chain	Analysed	Rotameric	Outliers	Percentiles
1	1	455/454 (100%)	453 (100%)	2 (0%)	84 81
1	2	455/454 (100%)	453 (100%)	2 (0%)	84 81
1	3	455/454 (100%)	453 (100%)	2 (0%)	84 81
1	4	455/454 (100%)	453 (100%)	2 (0%)	84 81
1	5	455/454 (100%)	453 (100%)	2 (0%)	84 81
1	6	455/454 (100%)	453 (100%)	2 (0%)	84 81
1	7	455/454 (100%)	453 (100%)	2 (0%)	84 81

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
1	8	455/454 (100%)	453 (100%)	2 (0%)	84	81
1	A	455/454 (100%)	453 (100%)	2 (0%)	84	81
1	B	455/454 (100%)	453 (100%)	2 (0%)	84	81
1	C	455/454 (100%)	453 (100%)	2 (0%)	84	81
1	D	455/454 (100%)	453 (100%)	2 (0%)	84	81
1	E	455/454 (100%)	453 (100%)	2 (0%)	84	81
1	F	455/454 (100%)	453 (100%)	2 (0%)	84	81
1	G	455/454 (100%)	453 (100%)	2 (0%)	84	81
1	H	455/454 (100%)	453 (100%)	2 (0%)	84	81
1	I	455/454 (100%)	453 (100%)	2 (0%)	84	81
1	J	455/454 (100%)	453 (100%)	2 (0%)	84	81
1	K	455/454 (100%)	453 (100%)	2 (0%)	84	81
1	L	455/454 (100%)	453 (100%)	2 (0%)	84	81
1	M	455/454 (100%)	453 (100%)	2 (0%)	84	81
1	N	455/454 (100%)	453 (100%)	2 (0%)	84	81
1	O	455/454 (100%)	453 (100%)	2 (0%)	84	81
1	P	455/454 (100%)	453 (100%)	2 (0%)	84	81
1	Q	455/454 (100%)	453 (100%)	2 (0%)	84	81
1	R	455/454 (100%)	453 (100%)	2 (0%)	84	81
1	S	455/454 (100%)	453 (100%)	2 (0%)	84	81
1	T	455/454 (100%)	453 (100%)	2 (0%)	84	81
1	U	455/454 (100%)	453 (100%)	2 (0%)	84	81
1	V	455/454 (100%)	453 (100%)	2 (0%)	84	81
1	W	455/454 (100%)	453 (100%)	2 (0%)	84	81
1	X	455/454 (100%)	453 (100%)	2 (0%)	84	81
1	Y	455/454 (100%)	453 (100%)	2 (0%)	84	81
1	Z	455/454 (100%)	453 (100%)	2 (0%)	84	81
1	a	455/454 (100%)	453 (100%)	2 (0%)	84	81
1	b	455/454 (100%)	453 (100%)	2 (0%)	84	81
1	c	455/454 (100%)	453 (100%)	2 (0%)	84	81
1	d	455/454 (100%)	453 (100%)	2 (0%)	84	81

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
1	e	455/454 (100%)	453 (100%)	2 (0%)	84	81
1	f	455/454 (100%)	453 (100%)	2 (0%)	84	81
1	g	455/454 (100%)	453 (100%)	2 (0%)	84	81
1	h	455/454 (100%)	453 (100%)	2 (0%)	84	81
1	i	455/454 (100%)	453 (100%)	2 (0%)	84	81
1	j	455/454 (100%)	453 (100%)	2 (0%)	84	81
1	k	455/454 (100%)	453 (100%)	2 (0%)	84	81
1	l	455/454 (100%)	453 (100%)	2 (0%)	84	81
1	m	455/454 (100%)	453 (100%)	2 (0%)	84	81
1	n	455/454 (100%)	453 (100%)	2 (0%)	84	81
1	o	455/454 (100%)	453 (100%)	2 (0%)	84	81
1	p	455/454 (100%)	453 (100%)	2 (0%)	84	81
1	q	455/454 (100%)	453 (100%)	2 (0%)	84	81
1	r	455/454 (100%)	453 (100%)	2 (0%)	84	81
1	s	455/454 (100%)	453 (100%)	2 (0%)	84	81
1	t	455/454 (100%)	453 (100%)	2 (0%)	84	81
1	u	455/454 (100%)	453 (100%)	2 (0%)	84	81
1	v	455/454 (100%)	453 (100%)	2 (0%)	84	81
1	w	455/454 (100%)	453 (100%)	2 (0%)	84	81
1	x	455/454 (100%)	453 (100%)	2 (0%)	84	81
1	y	455/454 (100%)	453 (100%)	2 (0%)	84	81
1	z	455/454 (100%)	453 (100%)	2 (0%)	84	81
All	All	27300/27240 (100%)	27180 (100%)	120 (0%)	81	81

All (120) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	448	LEU
1	A	586	LEU
1	B	448	LEU
1	B	586	LEU
1	C	448	LEU
1	C	586	LEU
1	D	448	LEU

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Mol	Chain	Res	Type
1	D	586	LEU
1	E	448	LEU
1	E	586	LEU
1	F	448	LEU
1	F	586	LEU
1	G	448	LEU
1	G	586	LEU
1	H	448	LEU
1	H	586	LEU
1	I	448	LEU
1	I	586	LEU
1	J	448	LEU
1	J	586	LEU
1	K	448	LEU
1	K	586	LEU
1	L	448	LEU
1	L	586	LEU
1	M	448	LEU
1	M	586	LEU
1	N	448	LEU
1	N	586	LEU
1	O	448	LEU
1	O	586	LEU
1	P	448	LEU
1	P	586	LEU
1	Q	448	LEU
1	Q	586	LEU
1	R	448	LEU
1	R	586	LEU
1	S	448	LEU
1	S	586	LEU
1	T	448	LEU
1	T	586	LEU
1	U	448	LEU
1	U	586	LEU
1	V	448	LEU
1	V	586	LEU
1	W	448	LEU
1	W	586	LEU
1	X	448	LEU
1	X	586	LEU
1	Y	448	LEU

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Mol	Chain	Res	Type
1	Y	586	LEU
1	Z	448	LEU
1	Z	586	LEU
1	a	448	LEU
1	a	586	LEU
1	b	448	LEU
1	b	586	LEU
1	c	448	LEU
1	c	586	LEU
1	d	448	LEU
1	d	586	LEU
1	e	448	LEU
1	e	586	LEU
1	f	448	LEU
1	f	586	LEU
1	g	448	LEU
1	g	586	LEU
1	h	448	LEU
1	h	586	LEU
1	i	448	LEU
1	i	586	LEU
1	j	448	LEU
1	j	586	LEU
1	k	448	LEU
1	k	586	LEU
1	l	448	LEU
1	l	586	LEU
1	m	448	LEU
1	m	586	LEU
1	n	448	LEU
1	n	586	LEU
1	o	448	LEU
1	o	586	LEU
1	p	448	LEU
1	p	586	LEU
1	q	448	LEU
1	q	586	LEU
1	r	448	LEU
1	r	586	LEU
1	s	448	LEU
1	s	586	LEU
1	t	448	LEU

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Mol	Chain	Res	Type
1	t	586	LEU
1	u	448	LEU
1	u	586	LEU
1	v	448	LEU
1	v	586	LEU
1	w	448	LEU
1	w	586	LEU
1	x	448	LEU
1	x	586	LEU
1	y	448	LEU
1	y	586	LEU
1	z	448	LEU
1	z	586	LEU
1	1	448	LEU
1	1	586	LEU
1	2	448	LEU
1	2	586	LEU
1	3	448	LEU
1	3	586	LEU
1	4	448	LEU
1	4	586	LEU
1	5	448	LEU
1	5	586	LEU
1	6	448	LEU
1	6	586	LEU
1	7	448	LEU
1	7	586	LEU
1	8	448	LEU
1	8	586	LEU

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (869) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	230	HIS
1	A	305	ASN
1	A	328	GLN
1	A	377	GLN
1	A	431	GLN
1	A	462	GLN
1	A	521	ASN
1	A	587	GLN
1	A	597	ASN

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Mol	Chain	Res	Type
1	A	610	GLN
1	A	626	HIS
1	A	653	ASN
1	A	675	GLN
1	A	680	GLN
1	A	737	ASN
1	B	230	HIS
1	B	305	ASN
1	B	328	GLN
1	B	377	GLN
1	B	431	GLN
1	B	462	GLN
1	B	521	ASN
1	B	587	GLN
1	B	597	ASN
1	B	610	GLN
1	B	626	HIS
1	B	653	ASN
1	B	675	GLN
1	B	680	GLN
1	B	737	ASN
1	C	230	HIS
1	C	305	ASN
1	C	328	GLN
1	C	377	GLN
1	C	431	GLN
1	C	462	GLN
1	C	521	ASN
1	C	587	GLN
1	C	597	ASN
1	C	610	GLN
1	C	626	HIS
1	C	653	ASN
1	C	675	GLN
1	C	680	GLN
1	C	737	ASN
1	D	230	HIS
1	D	305	ASN
1	D	328	GLN
1	D	377	GLN
1	D	431	GLN
1	D	462	GLN

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Mol	Chain	Res	Type
1	D	587	GLN
1	D	597	ASN
1	D	610	GLN
1	D	626	HIS
1	D	653	ASN
1	D	675	GLN
1	D	680	GLN
1	D	737	ASN
1	E	230	HIS
1	E	305	ASN
1	E	328	GLN
1	E	377	GLN
1	E	431	GLN
1	E	452	GLN
1	E	462	GLN
1	E	521	ASN
1	E	587	GLN
1	E	597	ASN
1	E	610	GLN
1	E	626	HIS
1	E	653	ASN
1	E	675	GLN
1	E	680	GLN
1	E	737	ASN
1	F	230	HIS
1	F	305	ASN
1	F	328	GLN
1	F	377	GLN
1	F	431	GLN
1	F	462	GLN
1	F	521	ASN
1	F	587	GLN
1	F	597	ASN
1	F	610	GLN
1	F	626	HIS
1	F	653	ASN
1	F	675	GLN
1	F	680	GLN
1	F	737	ASN
1	G	230	HIS
1	G	305	ASN
1	G	328	GLN

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Mol	Chain	Res	Type
1	G	377	GLN
1	G	431	GLN
1	G	462	GLN
1	G	521	ASN
1	G	587	GLN
1	G	597	ASN
1	G	610	GLN
1	G	626	HIS
1	G	653	ASN
1	G	675	GLN
1	G	680	GLN
1	G	737	ASN
1	H	230	HIS
1	H	305	ASN
1	H	328	GLN
1	H	377	GLN
1	H	431	GLN
1	H	462	GLN
1	H	597	ASN
1	H	610	GLN
1	H	626	HIS
1	H	675	GLN
1	H	680	GLN
1	H	737	ASN
1	I	230	HIS
1	I	305	ASN
1	I	328	GLN
1	I	377	GLN
1	I	431	GLN
1	I	462	GLN
1	I	587	GLN
1	I	597	ASN
1	I	610	GLN
1	I	626	HIS
1	I	653	ASN
1	I	675	GLN
1	I	680	GLN
1	I	737	ASN
1	J	230	HIS
1	J	305	ASN
1	J	328	GLN
1	J	377	GLN

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Mol	Chain	Res	Type
1	J	431	GLN
1	J	462	GLN
1	J	521	ASN
1	J	587	GLN
1	J	597	ASN
1	J	610	GLN
1	J	626	HIS
1	J	653	ASN
1	J	675	GLN
1	J	680	GLN
1	J	737	ASN
1	K	230	HIS
1	K	305	ASN
1	K	328	GLN
1	K	377	GLN
1	K	431	GLN
1	K	462	GLN
1	K	587	GLN
1	K	597	ASN
1	K	610	GLN
1	K	626	HIS
1	K	653	ASN
1	K	675	GLN
1	K	680	GLN
1	K	737	ASN
1	L	230	HIS
1	L	305	ASN
1	L	328	GLN
1	L	377	GLN
1	L	431	GLN
1	L	462	GLN
1	L	587	GLN
1	L	597	ASN
1	L	610	GLN
1	L	626	HIS
1	L	653	ASN
1	L	675	GLN
1	L	680	GLN
1	L	737	ASN
1	M	230	HIS
1	M	305	ASN
1	M	328	GLN

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Mol	Chain	Res	Type
1	M	377	GLN
1	M	431	GLN
1	M	462	GLN
1	M	521	ASN
1	M	587	GLN
1	M	597	ASN
1	M	610	GLN
1	M	626	HIS
1	M	653	ASN
1	M	675	GLN
1	M	680	GLN
1	M	737	ASN
1	N	230	HIS
1	N	305	ASN
1	N	328	GLN
1	N	377	GLN
1	N	431	GLN
1	N	462	GLN
1	N	521	ASN
1	N	587	GLN
1	N	597	ASN
1	N	610	GLN
1	N	626	HIS
1	N	653	ASN
1	N	675	GLN
1	N	680	GLN
1	N	737	ASN
1	O	230	HIS
1	O	305	ASN
1	O	328	GLN
1	O	377	GLN
1	O	431	GLN
1	O	462	GLN
1	O	521	ASN
1	O	597	ASN
1	O	610	GLN
1	O	626	HIS
1	O	653	ASN
1	O	675	GLN
1	O	680	GLN
1	O	737	ASN
1	P	230	HIS

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Mol	Chain	Res	Type
1	P	305	ASN
1	P	328	GLN
1	P	377	GLN
1	P	431	GLN
1	P	462	GLN
1	P	587	GLN
1	P	597	ASN
1	P	610	GLN
1	P	626	HIS
1	P	653	ASN
1	P	675	GLN
1	P	680	GLN
1	P	737	ASN
1	Q	230	HIS
1	Q	305	ASN
1	Q	328	GLN
1	Q	377	GLN
1	Q	431	GLN
1	Q	462	GLN
1	Q	597	ASN
1	Q	610	GLN
1	Q	626	HIS
1	Q	653	ASN
1	Q	675	GLN
1	Q	680	GLN
1	Q	737	ASN
1	R	230	HIS
1	R	293	HIS
1	R	305	ASN
1	R	328	GLN
1	R	377	GLN
1	R	431	GLN
1	R	462	GLN
1	R	521	ASN
1	R	597	ASN
1	R	610	GLN
1	R	626	HIS
1	R	653	ASN
1	R	675	GLN
1	R	680	GLN
1	R	737	ASN
1	S	230	HIS

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Mol	Chain	Res	Type
1	S	305	ASN
1	S	328	GLN
1	S	377	GLN
1	S	431	GLN
1	S	462	GLN
1	S	521	ASN
1	S	587	GLN
1	S	597	ASN
1	S	610	GLN
1	S	626	HIS
1	S	653	ASN
1	S	675	GLN
1	S	680	GLN
1	S	737	ASN
1	T	230	HIS
1	T	305	ASN
1	T	328	GLN
1	T	377	GLN
1	T	431	GLN
1	T	462	GLN
1	T	521	ASN
1	T	587	GLN
1	T	597	ASN
1	T	610	GLN
1	T	626	HIS
1	T	653	ASN
1	T	675	GLN
1	T	680	GLN
1	T	737	ASN
1	U	230	HIS
1	U	305	ASN
1	U	328	GLN
1	U	377	GLN
1	U	431	GLN
1	U	462	GLN
1	U	521	ASN
1	U	597	ASN
1	U	610	GLN
1	U	626	HIS
1	U	653	ASN
1	U	675	GLN
1	U	680	GLN

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Mol	Chain	Res	Type
1	U	737	ASN
1	V	230	HIS
1	V	293	HIS
1	V	305	ASN
1	V	328	GLN
1	V	377	GLN
1	V	431	GLN
1	V	462	GLN
1	V	587	GLN
1	V	597	ASN
1	V	610	GLN
1	V	626	HIS
1	V	653	ASN
1	V	675	GLN
1	V	680	GLN
1	V	737	ASN
1	W	230	HIS
1	W	305	ASN
1	W	328	GLN
1	W	377	GLN
1	W	431	GLN
1	W	462	GLN
1	W	521	ASN
1	W	587	GLN
1	W	597	ASN
1	W	610	GLN
1	W	626	HIS
1	W	653	ASN
1	W	675	GLN
1	W	680	GLN
1	W	737	ASN
1	X	230	HIS
1	X	305	ASN
1	X	328	GLN
1	X	377	GLN
1	X	431	GLN
1	X	462	GLN
1	X	587	GLN
1	X	597	ASN
1	X	610	GLN
1	X	626	HIS
1	X	653	ASN

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Mol	Chain	Res	Type
1	X	675	GLN
1	X	680	GLN
1	X	737	ASN
1	Y	230	HIS
1	Y	305	ASN
1	Y	328	GLN
1	Y	377	GLN
1	Y	431	GLN
1	Y	462	GLN
1	Y	521	ASN
1	Y	587	GLN
1	Y	597	ASN
1	Y	610	GLN
1	Y	626	HIS
1	Y	653	ASN
1	Y	675	GLN
1	Y	680	GLN
1	Y	737	ASN
1	Z	230	HIS
1	Z	305	ASN
1	Z	328	GLN
1	Z	377	GLN
1	Z	431	GLN
1	Z	462	GLN
1	Z	521	ASN
1	Z	597	ASN
1	Z	610	GLN
1	Z	626	HIS
1	Z	653	ASN
1	Z	675	GLN
1	Z	680	GLN
1	Z	737	ASN
1	a	230	HIS
1	a	305	ASN
1	a	328	GLN
1	a	377	GLN
1	a	431	GLN
1	a	462	GLN
1	a	521	ASN
1	a	587	GLN
1	a	597	ASN
1	a	610	GLN

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Mol	Chain	Res	Type
1	a	626	HIS
1	a	653	ASN
1	a	675	GLN
1	a	680	GLN
1	a	737	ASN
1	b	230	HIS
1	b	305	ASN
1	b	328	GLN
1	b	377	GLN
1	b	431	GLN
1	b	462	GLN
1	b	521	ASN
1	b	587	GLN
1	b	597	ASN
1	b	610	GLN
1	b	626	HIS
1	b	653	ASN
1	b	675	GLN
1	b	680	GLN
1	b	737	ASN
1	c	230	HIS
1	c	305	ASN
1	c	328	GLN
1	c	377	GLN
1	c	431	GLN
1	c	462	GLN
1	c	521	ASN
1	c	597	ASN
1	c	610	GLN
1	c	626	HIS
1	c	653	ASN
1	c	675	GLN
1	c	680	GLN
1	c	737	ASN
1	d	230	HIS
1	d	305	ASN
1	d	328	GLN
1	d	377	GLN
1	d	431	GLN
1	d	462	GLN
1	d	597	ASN
1	d	610	GLN

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Mol	Chain	Res	Type
1	d	626	HIS
1	d	653	ASN
1	d	675	GLN
1	d	680	GLN
1	d	737	ASN
1	e	230	HIS
1	e	305	ASN
1	e	328	GLN
1	e	377	GLN
1	e	431	GLN
1	e	462	GLN
1	e	587	GLN
1	e	597	ASN
1	e	610	GLN
1	e	626	HIS
1	e	653	ASN
1	e	675	GLN
1	e	680	GLN
1	e	737	ASN
1	f	230	HIS
1	f	305	ASN
1	f	328	GLN
1	f	377	GLN
1	f	431	GLN
1	f	462	GLN
1	f	587	GLN
1	f	597	ASN
1	f	610	GLN
1	f	626	HIS
1	f	675	GLN
1	f	680	GLN
1	f	737	ASN
1	g	230	HIS
1	g	305	ASN
1	g	328	GLN
1	g	377	GLN
1	g	431	GLN
1	g	462	GLN
1	g	587	GLN
1	g	597	ASN
1	g	610	GLN
1	g	626	HIS

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Mol	Chain	Res	Type
1	g	653	ASN
1	g	675	GLN
1	g	680	GLN
1	g	737	ASN
1	h	230	HIS
1	h	293	HIS
1	h	305	ASN
1	h	328	GLN
1	h	377	GLN
1	h	431	GLN
1	h	462	GLN
1	h	597	ASN
1	h	610	GLN
1	h	626	HIS
1	h	653	ASN
1	h	675	GLN
1	h	680	GLN
1	h	737	ASN
1	i	230	HIS
1	i	305	ASN
1	i	328	GLN
1	i	377	GLN
1	i	431	GLN
1	i	462	GLN
1	i	587	GLN
1	i	597	ASN
1	i	610	GLN
1	i	626	HIS
1	i	653	ASN
1	i	675	GLN
1	i	680	GLN
1	i	737	ASN
1	j	230	HIS
1	j	305	ASN
1	j	328	GLN
1	j	377	GLN
1	j	431	GLN
1	j	462	GLN
1	j	521	ASN
1	j	587	GLN
1	j	597	ASN
1	j	610	GLN

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Mol	Chain	Res	Type
1	j	626	HIS
1	j	653	ASN
1	j	675	GLN
1	j	680	GLN
1	j	737	ASN
1	k	230	HIS
1	k	293	HIS
1	k	305	ASN
1	k	328	GLN
1	k	377	GLN
1	k	431	GLN
1	k	462	GLN
1	k	521	ASN
1	k	597	ASN
1	k	610	GLN
1	k	626	HIS
1	k	653	ASN
1	k	675	GLN
1	k	680	GLN
1	k	737	ASN
1	l	230	HIS
1	l	305	ASN
1	l	328	GLN
1	l	377	GLN
1	l	431	GLN
1	l	462	GLN
1	l	521	ASN
1	l	597	ASN
1	l	610	GLN
1	l	626	HIS
1	l	653	ASN
1	l	675	GLN
1	l	680	GLN
1	l	737	ASN
1	m	230	HIS
1	m	305	ASN
1	m	328	GLN
1	m	377	GLN
1	m	431	GLN
1	m	462	GLN
1	m	521	ASN
1	m	597	ASN

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Mol	Chain	Res	Type
1	m	610	GLN
1	m	626	HIS
1	m	653	ASN
1	m	675	GLN
1	m	680	GLN
1	m	737	ASN
1	n	230	HIS
1	n	305	ASN
1	n	328	GLN
1	n	377	GLN
1	n	431	GLN
1	n	452	GLN
1	n	462	GLN
1	n	521	ASN
1	n	587	GLN
1	n	597	ASN
1	n	610	GLN
1	n	626	HIS
1	n	653	ASN
1	n	675	GLN
1	n	680	GLN
1	n	737	ASN
1	o	230	HIS
1	o	305	ASN
1	o	328	GLN
1	o	377	GLN
1	o	431	GLN
1	o	462	GLN
1	o	521	ASN
1	o	597	ASN
1	o	610	GLN
1	o	626	HIS
1	o	653	ASN
1	o	675	GLN
1	o	680	GLN
1	o	737	ASN
1	p	230	HIS
1	p	305	ASN
1	p	328	GLN
1	p	377	GLN
1	p	431	GLN
1	p	462	GLN

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Mol	Chain	Res	Type
1	p	521	ASN
1	p	587	GLN
1	p	597	ASN
1	p	610	GLN
1	p	626	HIS
1	p	653	ASN
1	p	675	GLN
1	p	680	GLN
1	p	737	ASN
1	q	230	HIS
1	q	305	ASN
1	q	328	GLN
1	q	377	GLN
1	q	431	GLN
1	q	462	GLN
1	q	521	ASN
1	q	587	GLN
1	q	597	ASN
1	q	610	GLN
1	q	626	HIS
1	q	653	ASN
1	q	675	GLN
1	q	680	GLN
1	q	737	ASN
1	r	230	HIS
1	r	305	ASN
1	r	328	GLN
1	r	377	GLN
1	r	431	GLN
1	r	462	GLN
1	r	587	GLN
1	r	597	ASN
1	r	610	GLN
1	r	626	HIS
1	r	653	ASN
1	r	675	GLN
1	r	680	GLN
1	r	737	ASN
1	s	230	HIS
1	s	305	ASN
1	s	328	GLN
1	s	377	GLN

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Mol	Chain	Res	Type
1	s	431	GLN
1	s	462	GLN
1	s	521	ASN
1	s	587	GLN
1	s	597	ASN
1	s	610	GLN
1	s	626	HIS
1	s	653	ASN
1	s	675	GLN
1	s	680	GLN
1	s	737	ASN
1	t	230	HIS
1	t	293	HIS
1	t	305	ASN
1	t	328	GLN
1	t	377	GLN
1	t	431	GLN
1	t	462	GLN
1	t	521	ASN
1	t	597	ASN
1	t	610	GLN
1	t	626	HIS
1	t	653	ASN
1	t	675	GLN
1	t	680	GLN
1	t	737	ASN
1	u	230	HIS
1	u	305	ASN
1	u	328	GLN
1	u	377	GLN
1	u	431	GLN
1	u	462	GLN
1	u	521	ASN
1	u	587	GLN
1	u	597	ASN
1	u	610	GLN
1	u	626	HIS
1	u	653	ASN
1	u	675	GLN
1	u	680	GLN
1	u	737	ASN
1	v	230	HIS

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Mol	Chain	Res	Type
1	v	305	ASN
1	v	328	GLN
1	v	377	GLN
1	v	431	GLN
1	v	462	GLN
1	v	521	ASN
1	v	597	ASN
1	v	610	GLN
1	v	626	HIS
1	v	653	ASN
1	v	675	GLN
1	v	680	GLN
1	v	737	ASN
1	w	230	HIS
1	w	305	ASN
1	w	328	GLN
1	w	377	GLN
1	w	431	GLN
1	w	462	GLN
1	w	587	GLN
1	w	597	ASN
1	w	610	GLN
1	w	626	HIS
1	w	653	ASN
1	w	675	GLN
1	w	680	GLN
1	w	737	ASN
1	x	230	HIS
1	x	305	ASN
1	x	328	GLN
1	x	377	GLN
1	x	431	GLN
1	x	462	GLN
1	x	587	GLN
1	x	597	ASN
1	x	610	GLN
1	x	626	HIS
1	x	653	ASN
1	x	675	GLN
1	x	680	GLN
1	x	737	ASN
1	y	230	HIS

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Mol	Chain	Res	Type
1	y	305	ASN
1	y	328	GLN
1	y	377	GLN
1	y	431	GLN
1	y	462	GLN
1	y	521	ASN
1	y	587	GLN
1	y	597	ASN
1	y	610	GLN
1	y	626	HIS
1	y	653	ASN
1	y	675	GLN
1	y	680	GLN
1	y	737	ASN
1	z	230	HIS
1	z	305	ASN
1	z	328	GLN
1	z	377	GLN
1	z	431	GLN
1	z	462	GLN
1	z	521	ASN
1	z	587	GLN
1	z	597	ASN
1	z	610	GLN
1	z	626	HIS
1	z	653	ASN
1	z	675	GLN
1	z	680	GLN
1	z	737	ASN
1	1	230	HIS
1	1	305	ASN
1	1	328	GLN
1	1	377	GLN
1	1	431	GLN
1	1	462	GLN
1	1	521	ASN
1	1	587	GLN
1	1	597	ASN
1	1	610	GLN
1	1	626	HIS
1	1	653	ASN
1	1	675	GLN

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Mol	Chain	Res	Type
1	1	680	GLN
1	1	737	ASN
1	2	230	HIS
1	2	293	HIS
1	2	305	ASN
1	2	328	GLN
1	2	377	GLN
1	2	431	GLN
1	2	462	GLN
1	2	587	GLN
1	2	597	ASN
1	2	610	GLN
1	2	626	HIS
1	2	653	ASN
1	2	675	GLN
1	2	680	GLN
1	2	737	ASN
1	3	230	HIS
1	3	305	ASN
1	3	328	GLN
1	3	377	GLN
1	3	431	GLN
1	3	462	GLN
1	3	521	ASN
1	3	597	ASN
1	3	610	GLN
1	3	626	HIS
1	3	653	ASN
1	3	675	GLN
1	3	680	GLN
1	3	737	ASN
1	4	230	HIS
1	4	305	ASN
1	4	328	GLN
1	4	377	GLN
1	4	431	GLN
1	4	452	GLN
1	4	462	GLN
1	4	521	ASN
1	4	587	GLN
1	4	597	ASN
1	4	610	GLN

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Mol	Chain	Res	Type
1	4	626	HIS
1	4	653	ASN
1	4	675	GLN
1	4	680	GLN
1	4	737	ASN
1	5	230	HIS
1	5	305	ASN
1	5	328	GLN
1	5	377	GLN
1	5	431	GLN
1	5	462	GLN
1	5	597	ASN
1	5	610	GLN
1	5	626	HIS
1	5	653	ASN
1	5	675	GLN
1	5	680	GLN
1	5	737	ASN
1	6	230	HIS
1	6	305	ASN
1	6	328	GLN
1	6	377	GLN
1	6	431	GLN
1	6	462	GLN
1	6	521	ASN
1	6	587	GLN
1	6	597	ASN
1	6	610	GLN
1	6	626	HIS
1	6	653	ASN
1	6	675	GLN
1	6	680	GLN
1	6	737	ASN
1	7	230	HIS
1	7	305	ASN
1	7	328	GLN
1	7	377	GLN
1	7	431	GLN
1	7	462	GLN
1	7	521	ASN
1	7	587	GLN
1	7	597	ASN

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Mol	Chain	Res	Type
1	7	610	GLN
1	7	626	HIS
1	7	653	ASN
1	7	675	GLN
1	7	680	GLN
1	7	737	ASN
1	8	230	HIS
1	8	305	ASN
1	8	328	GLN
1	8	377	GLN
1	8	431	GLN
1	8	462	GLN
1	8	587	GLN
1	8	597	ASN
1	8	610	GLN
1	8	626	HIS
1	8	653	ASN
1	8	675	GLN
1	8	680	GLN
1	8	737	ASN

5.3.3 RNA

There are no RNA molecules in this entry.

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

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

5.5 Carbohydrates

There are no oligosaccharides in this entry.

5.6 Ligand geometry

There are no ligands in this entry.

5.7 Other polymers (i)

There are no such residues in this entry.

5.8 Polymer linkage issues (i)

There are no chain breaks in this entry.

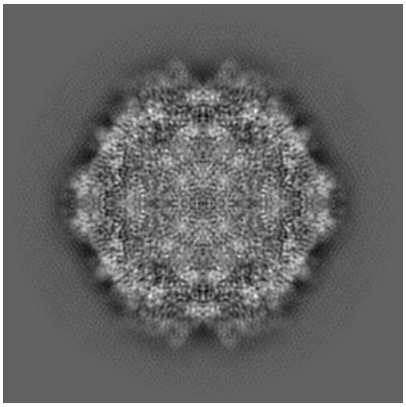
6 Map visualisation

This section contains visualisations of the EMDB entry EMD-21020. These allow visual inspection of the internal detail of the map and identification of artifacts.

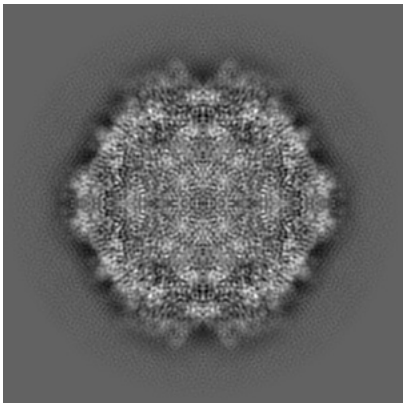
No raw map or half-maps were deposited for this entry and therefore no images, graphs, etc. pertaining to the raw map can be shown.

6.1 Orthogonal projections

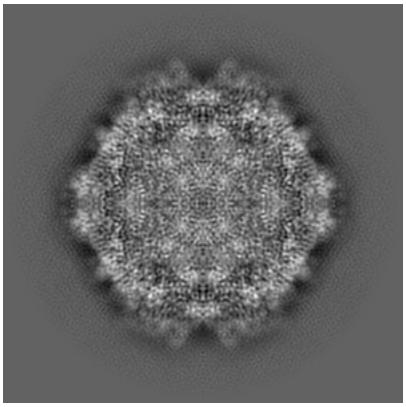
6.1.1 Primary map



X



Y

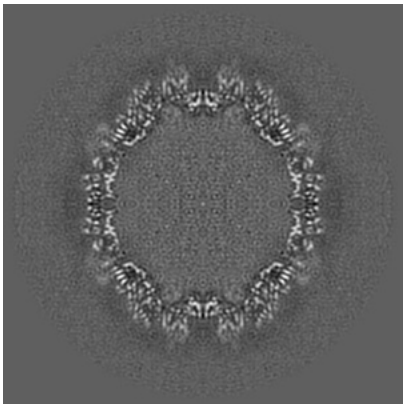


Z

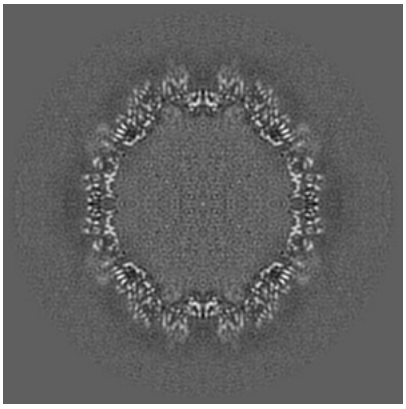
The images above show the map projected in three orthogonal directions.

6.2 Central slices

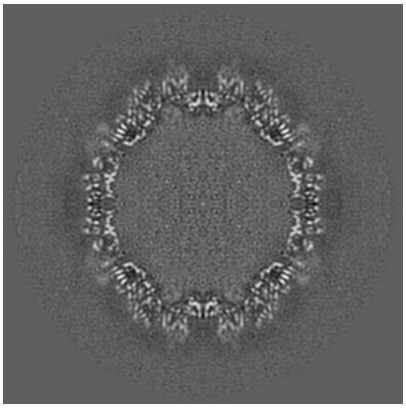
6.2.1 Primary map



X Index: 199



Y Index: 199

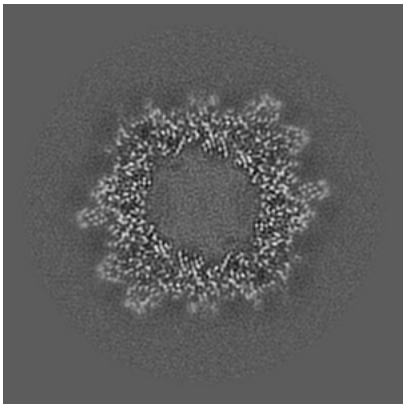


Z Index: 199

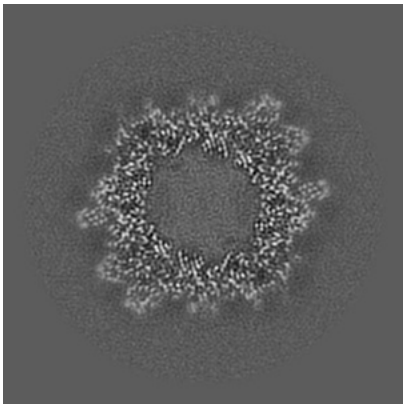
The images above show central slices of the map in three orthogonal directions.

6.3 Largest variance slices (i)

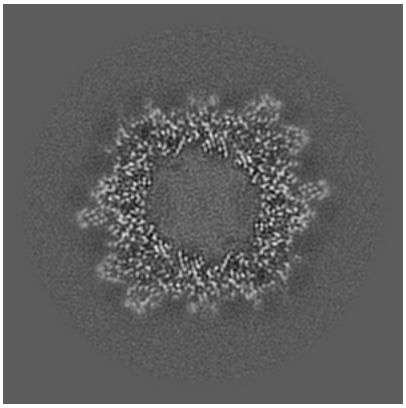
6.3.1 Primary map



X Index: 128



Y Index: 128

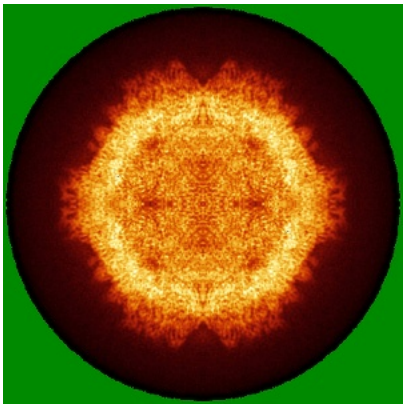


Z Index: 128

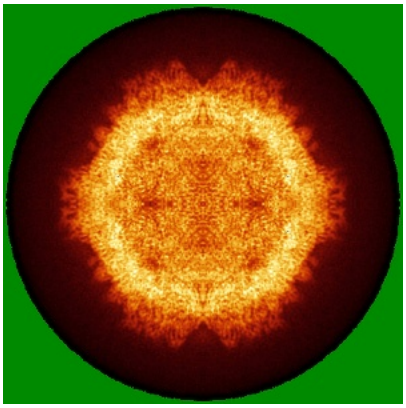
The images above show the largest variance slices of the map in three orthogonal directions.

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

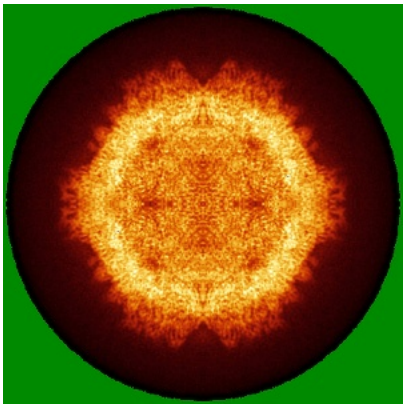
6.4.1 Primary map



X



Y

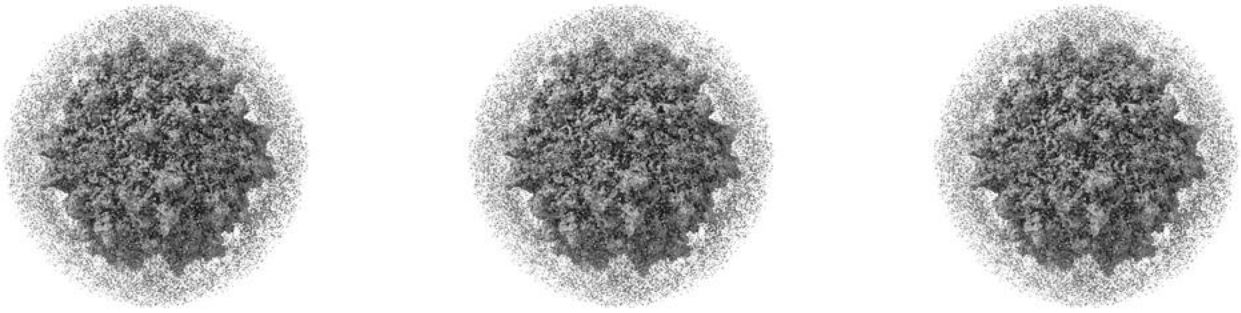


Z

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

6.5 Orthogonal surface views (i)

6.5.1 Primary map



X Y Z

The images above show the 3D surface view of the map at the recommended contour level 1.0. These images, in conjunction with the slice images, may facilitate assessment of whether an appropriate contour level has been provided.

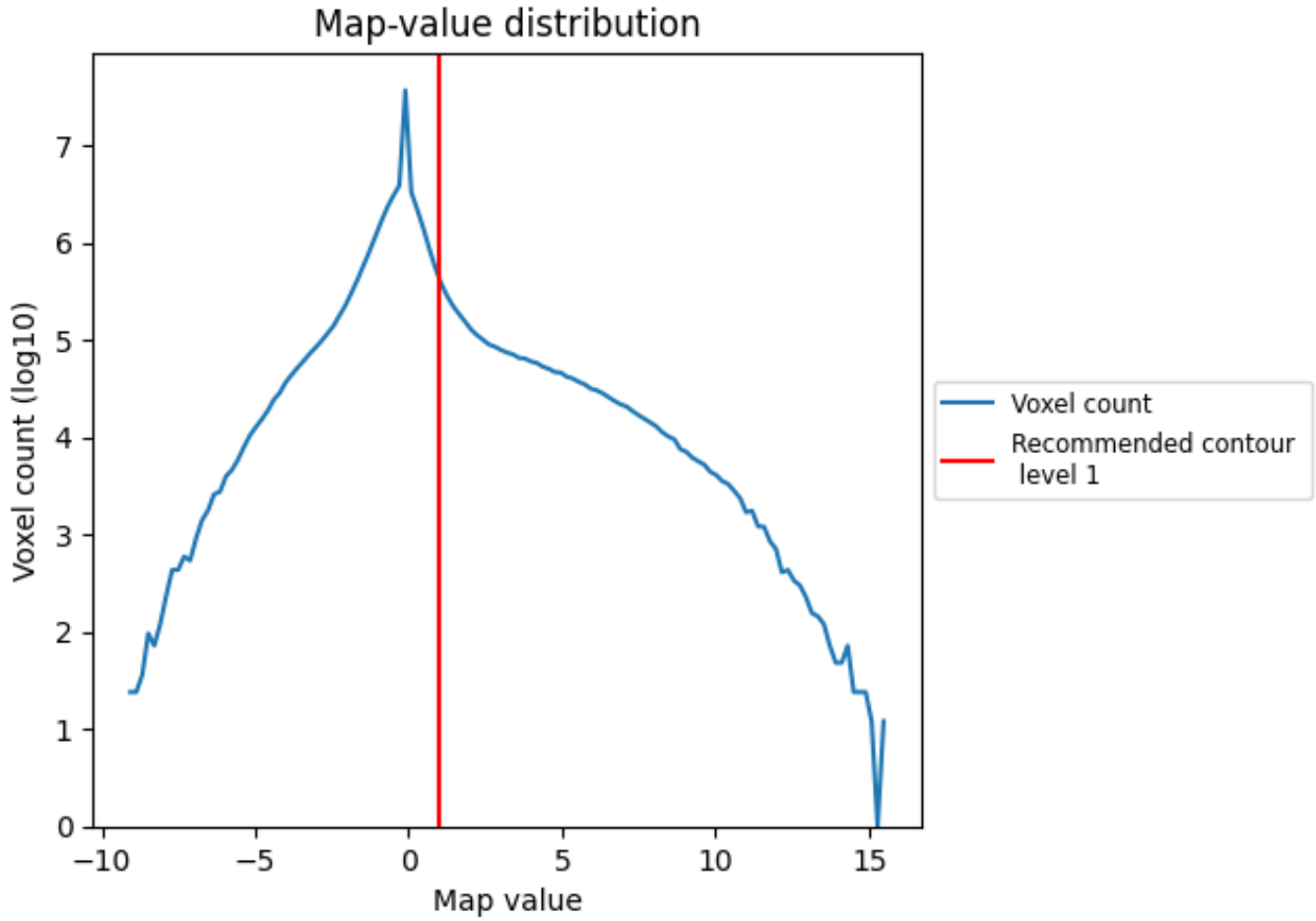
6.6 Mask visualisation (i)

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

7 Map analysis

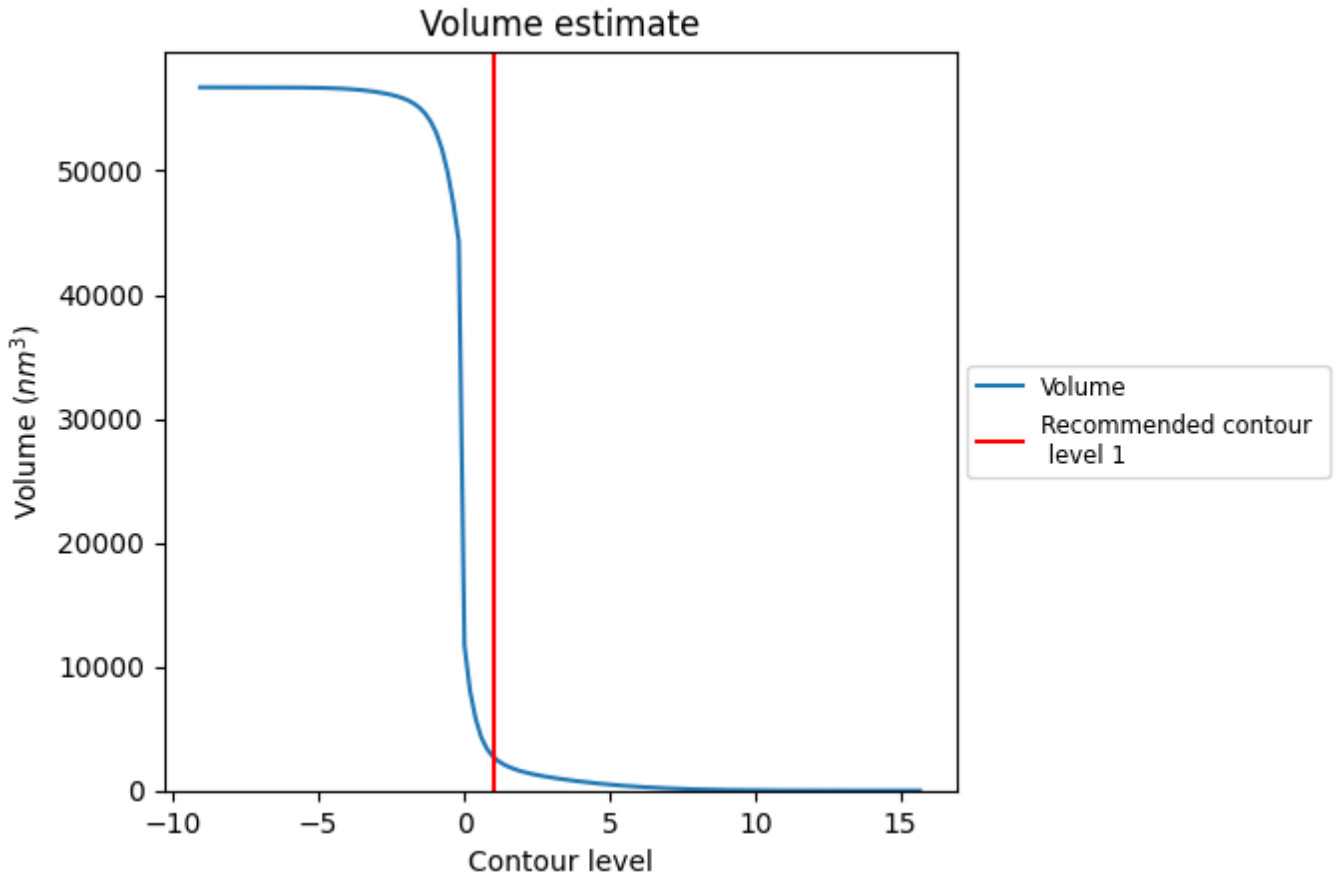
This section contains the results of statistical analysis of the map.

7.1 Map-value distribution



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

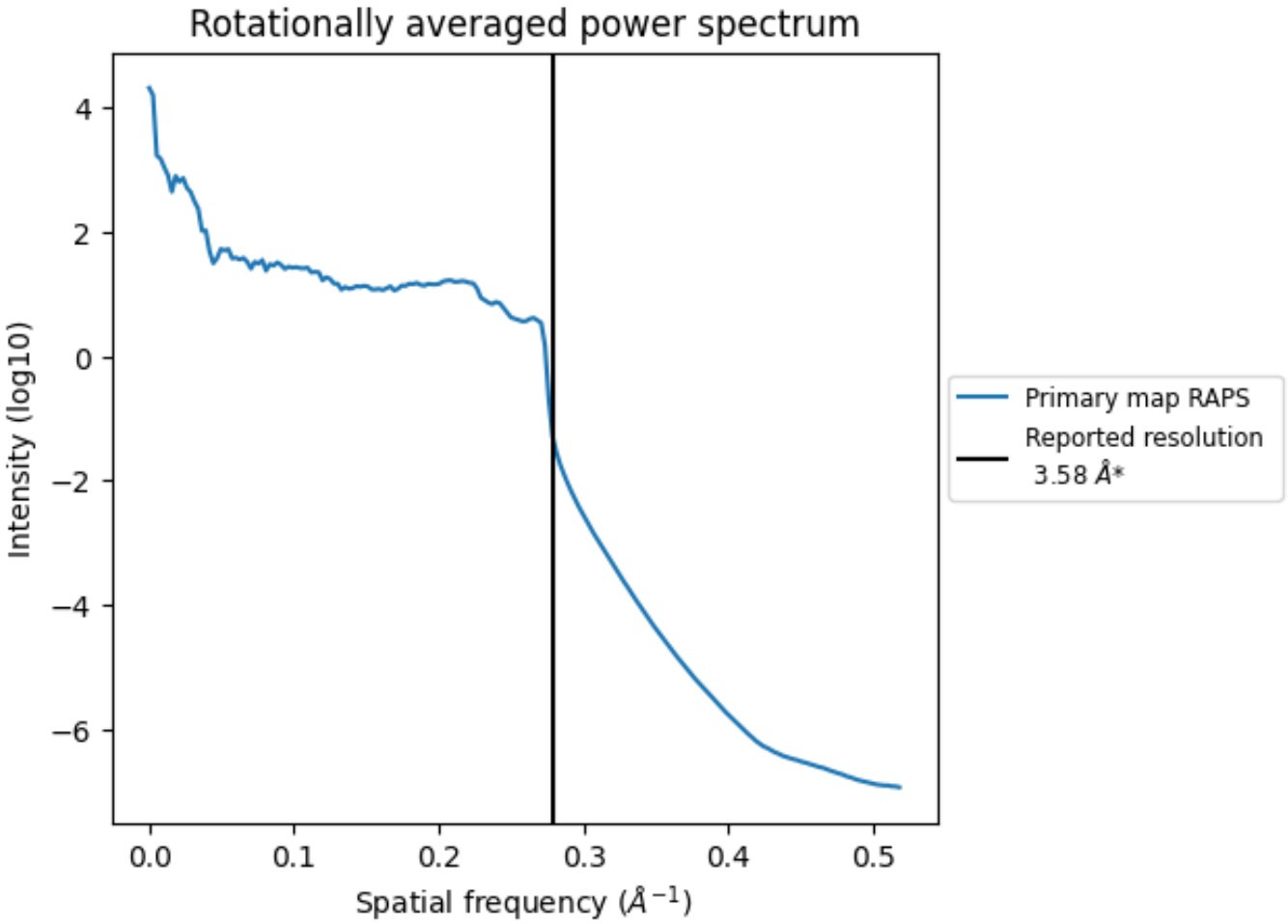
7.2 Volume estimate



The volume at the recommended contour level is 2733 nm^3; this corresponds to an approximate mass of 2469 kDa.

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

7.3 Rotationally averaged power spectrum (i)



*Reported resolution corresponds to spatial frequency of 0.279 Å^{-1}

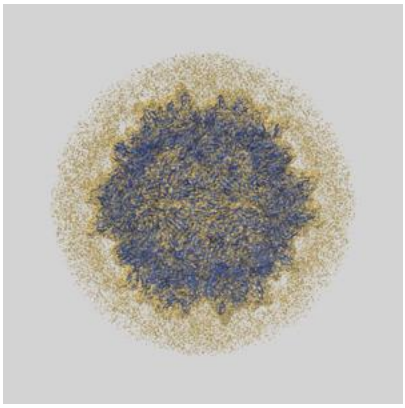
8 Fourier-Shell correlation

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

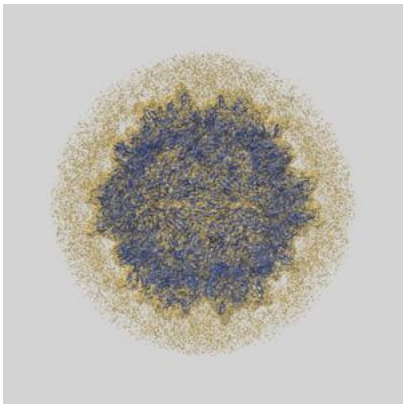
9 Map-model fit

This section contains information regarding the fit between EMDB map EMD-21020 and PDB model 6V1Z. Per-residue inclusion information can be found in section 3 on page 17.

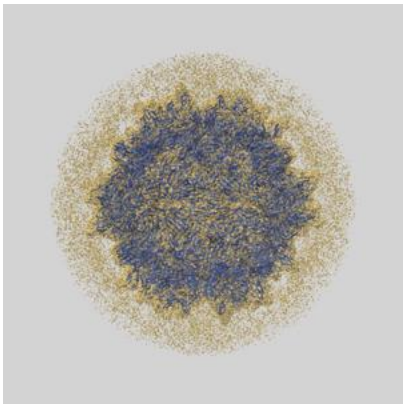
9.1 Map-model overlay



X



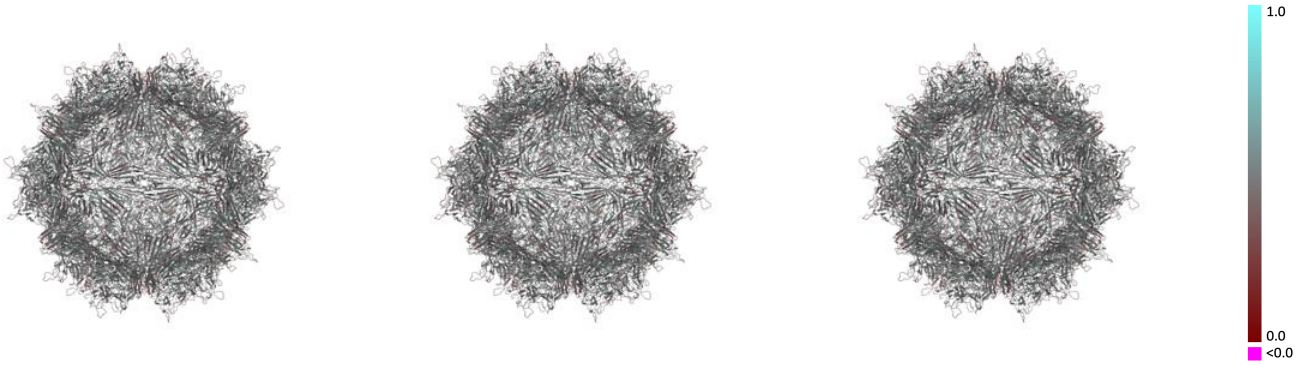
Y



Z

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

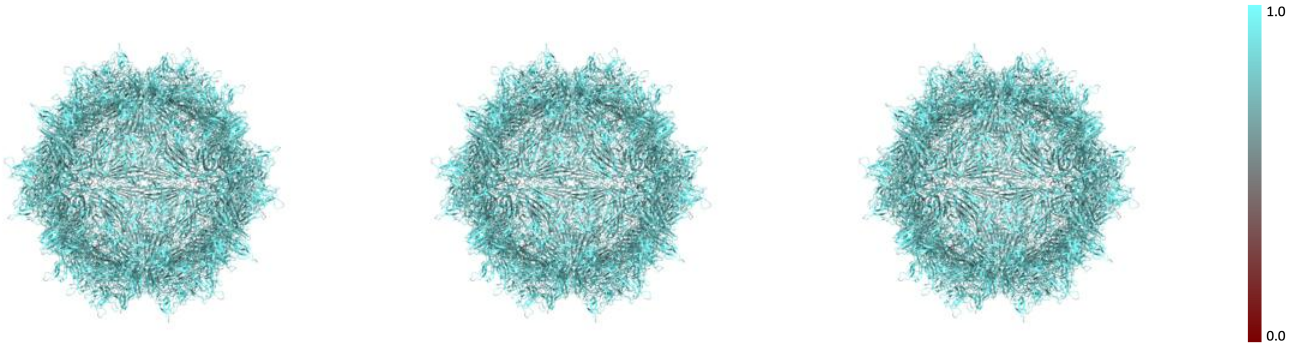
9.2 Q-score mapped to coordinate model



X Y Z

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

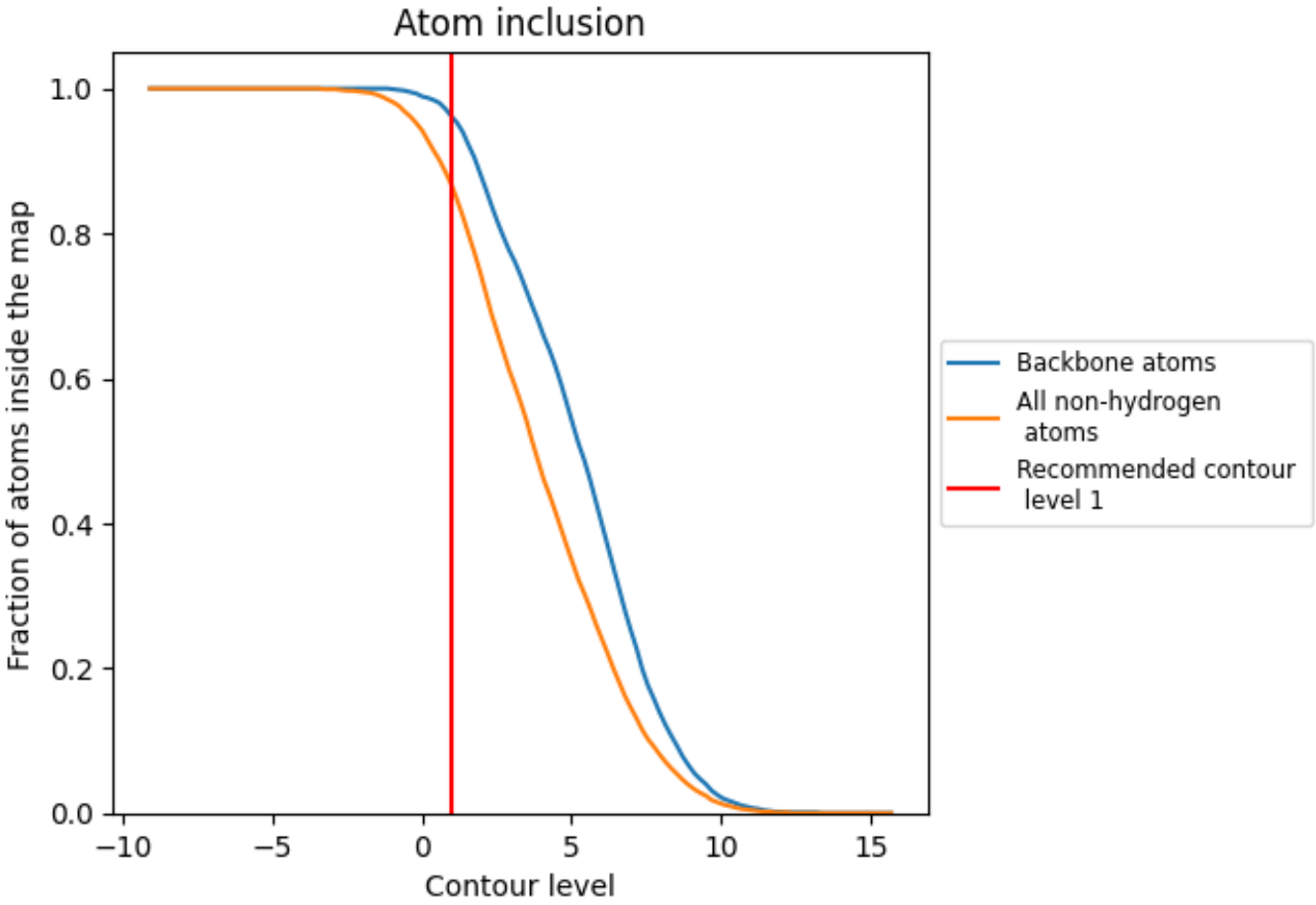
9.3 Atom inclusion mapped to coordinate model



X Y Z

The images above show the model with each residue coloured according to its atom inclusion. This shows to what extent they are inside the map at the recommended contour level (1).

9.4 Atom inclusion (i)



At the recommended contour level, 96% of all backbone atoms, 87% of all non-hydrogen atoms, are inside the map.

9.5 Map-model fit summary

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

Chain	Atom inclusion	Q-score
All	0.8660	0.4670
0	0.9190	0.4840
0A	0.9190	0.4730
1	0.8660	0.4680
1A	0.9190	0.4780
2	0.8650	0.4670
2A	0.9190	0.4810
3	0.8640	0.4680
3A	0.9190	0.4840
4	0.8660	0.4670
4A	0.9190	0.4780
5	0.8630	0.4670
5A	0.9190	0.4730
6	0.8650	0.4680
7	0.8650	0.4670
8	0.8670	0.4670
9	0.9190	0.4860
A	0.8650	0.4670
AA	0.9190	0.4680
B	0.8650	0.4680
BA	0.9190	0.4810
C	0.8620	0.4660
CA	0.9190	0.4740
D	0.8670	0.4680
DA	0.9190	0.4830
E	0.8650	0.4680
EA	0.9190	0.4810
F	0.8660	0.4680
FA	0.9190	0.4720
G	0.8650	0.4670
GA	0.9190	0.4900
H	0.8660	0.4680
HA	0.9190	0.4800
I	0.8660	0.4670
IA	0.9190	0.4780

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Chain	Atom inclusion	Q-score
J	0.8650	0.4670
JA	0.9190	0.4660
K	0.8670	0.4670
KA	0.9190	0.4910
L	0.8620	0.4660
LA	0.9190	0.4710
M	0.8650	0.4670
MA	0.9190	0.4690
N	0.8680	0.4680
NA	0.9190	0.4760
O	0.8640	0.4660
OA	0.9190	0.4850
P	0.8670	0.4680
PA	0.9190	0.4770
Q	0.8630	0.4660
QA	0.9190	0.4770
R	0.8630	0.4670
RA	0.9190	0.4800
S	0.8660	0.4690
SA	0.9190	0.4740
T	0.8660	0.4670
TA	0.9190	0.4740
U	0.8650	0.4680
UA	0.9190	0.4760
V	0.8670	0.4680
VA	0.9190	0.4570
W	0.8650	0.4660
WA	0.9190	0.4650
X	0.8680	0.4690
XA	0.9190	0.4640
Y	0.8620	0.4670
YA	0.9190	0.4840
Z	0.8630	0.4650
ZA	0.9190	0.4810
a	0.8670	0.4670
aA	0.9190	0.4920
b	0.8660	0.4690
bA	0.9190	0.4700
c	0.8660	0.4670
cA	0.9190	0.4780
d	0.8660	0.4670
dA	0.9190	0.4880

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Chain	Atom inclusion	Q-score
e	0.8670	0.4690
eA	0.9190	0.4790
f	0.8650	0.4680
fA	0.9190	0.4630
g	0.8650	0.4680
gA	0.9190	0.4830
h	0.8620	0.4680
hA	0.9190	0.4860
i	0.8650	0.4680
iA	0.9190	0.4800
j	0.8640	0.4670
jA	0.9190	0.4810
k	0.8620	0.4670
kA	0.9190	0.4740
l	0.8650	0.4670
lA	0.9190	0.4830
m	0.8630	0.4660
mA	0.9190	0.4800
n	0.8660	0.4670
nA	0.9190	0.4760
o	0.8660	0.4670
oA	0.9190	0.4870
p	0.8660	0.4670
pA	0.9190	0.4740
q	0.8650	0.4660
qA	0.9190	0.4810
r	0.8630	0.4650
rA	0.9190	0.4670
s	0.8650	0.4670
sA	0.9190	0.4920
t	0.8630	0.4680
tA	0.9190	0.4700
u	0.8650	0.4680
uA	0.9190	0.4730
v	0.8650	0.4670
vA	0.9190	0.4700
w	0.8670	0.4680
wA	0.9190	0.4680
x	0.8670	0.4670
xA	0.9190	0.4870
y	0.8670	0.4680
yA	0.9190	0.4830

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Chain	Atom inclusion	Q-score
z	0.8670	0.4680
zA	0.9190	0.4810