Full wwPDB EM Validation Report ⓘ

Mar 8, 2026 – 12:24 PM UTC

PDB ID	:	6BWX / pdb_00006bwx
EMDB ID	:	EMD-7300
Title	:	Atomic resolution structure of human bufavirus 1
Authors	:	Mietzsch, M.; Agbandje-McKenna, M.
Deposited on	:	2017-12-15
Resolution	:	2.84 Å(reported)

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

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

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

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

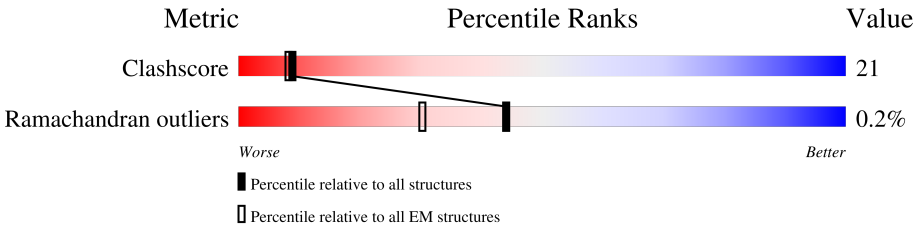
EMDB validation analysis	:	0.0.1.dev132
MolProbity	:	4-5-2 with Phenix2.0
Percentile statistics	:	20250101.v01 (using entries in the PDB archive January 1st 2025)
EM percentile statistics	:	202505.v01 (Using data in the EMDB archive up until May 2025)
MapQ	:	1.9.13
Ideal geometry (proteins)	:	Engh &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

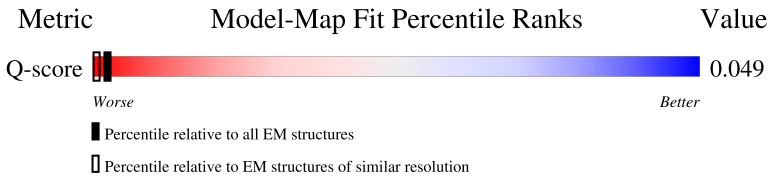
1 Overall quality at a glance

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

The reported resolution of this entry is 2.84 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	-
Q-score	-	25397	11884 (2.34 - 3.34)

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	0	537	39% 63% 35% ·
1	1	537	39% 64% 35% ·
1	2	537	39% 63% 35% ·
1	3	537	39% 63% 35% ·
1	4	537	39% 64% 35% ·

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Mol	Chain	Length	Quality of chain
1	5	537	39% 64% 34%
1	6	537	39% 64% 34%
1	7	537	39% 63% 35%
1	A	537	38% 65% 34%
1	B	537	40% 64% 34%
1	C	537	39% 64% 35%
1	D	537	39% 64% 34%
1	E	537	38% 63% 35%
1	F	537	39% 64% 35%
1	G	537	39% 63% 35%
1	H	537	39% 64% 34%
1	I	537	39% 64% 34%
1	J	537	39% 64% 34%
1	K	537	39% 64% 35%
1	L	537	39% 63% 35%
1	M	537	39% 64% 34%
1	N	537	39% 64% 34%
1	O	537	38% 63% 35%
1	P	537	39% 64% 35%
1	Q	537	40% 64% 34%
1	R	537	39% 63% 35%
1	S	537	39% 63% 35%
1	T	537	39% 64% 34%
1	U	537	39% 63% 35%
1	V	537	39% 63% 35%

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Mol	Chain	Length	Quality of chain
1	W	537	38% 64% 35%
1	X	537	39% 64% 34%
1	Y	537	39% 63% 35%
1	Z	537	39% 64% 35%
1	a	537	40% 64% 34%
1	b	537	39% 64% 35%
1	c	537	40% 63% 35%
1	d	537	39% 64% 34%
1	e	537	39% 64% 35%
1	f	537	39% 63% 35%
1	g	537	39% 63% 35%
1	h	537	39% 64% 35%
1	i	537	39% 64% 34%
1	j	537	39% 64% 34%
1	k	537	38% 64% 35%
1	l	537	39% 63% 35%
1	m	537	39% 63% 35%
1	n	537	39% 63% 35%
1	o	537	39% 64% 35%
1	p	537	39% 63% 35%
1	q	537	39% 64% 34%
1	r	537	39% 64% 34%
1	s	537	39% 64% 35%
1	t	537	39% 64% 34%
1	u	537	39% 64% 34%

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Mol	Chain	Length	Quality of chain
1	v	537	39% 63% 35%
1	w	537	38% 64% 35%
1	x	537	39% 64% 34%
1	y	537	39% 63% 35%
1	z	537	39% 63% 35%

2 Entry composition (i)

There is only 1 type of molecule in this entry. The entry contains 261180 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 VP2.

Mol	Chain	Residues	Atoms					AltConf	Trace
1	A	537	Total 4353	C 2754	N 764	O 821	S 14	0	0
1	B	537	Total 4353	C 2754	N 764	O 821	S 14	0	0
1	C	537	Total 4353	C 2754	N 764	O 821	S 14	0	0
1	D	537	Total 4353	C 2754	N 764	O 821	S 14	0	0
1	E	537	Total 4353	C 2754	N 764	O 821	S 14	0	0
1	F	537	Total 4353	C 2754	N 764	O 821	S 14	0	0
1	G	537	Total 4353	C 2754	N 764	O 821	S 14	0	0
1	H	537	Total 4353	C 2754	N 764	O 821	S 14	0	0
1	I	537	Total 4353	C 2754	N 764	O 821	S 14	0	0
1	J	537	Total 4353	C 2754	N 764	O 821	S 14	0	0
1	K	537	Total 4353	C 2754	N 764	O 821	S 14	0	0
1	L	537	Total 4353	C 2754	N 764	O 821	S 14	0	0
1	M	537	Total 4353	C 2754	N 764	O 821	S 14	0	0
1	N	537	Total 4353	C 2754	N 764	O 821	S 14	0	0
1	O	537	Total 4353	C 2754	N 764	O 821	S 14	0	0
1	P	537	Total 4353	C 2754	N 764	O 821	S 14	0	0
1	Q	537	Total 4353	C 2754	N 764	O 821	S 14	0	0

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Mol	Chain	Residues	Atoms					AltConf	Trace
1	R	537	Total	C	N	O	S	0	0
			4353	2754	764	821	14		
1	S	537	Total	C	N	O	S	0	0
			4353	2754	764	821	14		
1	T	537	Total	C	N	O	S	0	0
			4353	2754	764	821	14		
1	U	537	Total	C	N	O	S	0	0
			4353	2754	764	821	14		
1	V	537	Total	C	N	O	S	0	0
			4353	2754	764	821	14		
1	W	537	Total	C	N	O	S	0	0
			4353	2754	764	821	14		
1	X	537	Total	C	N	O	S	0	0
			4353	2754	764	821	14		
1	Y	537	Total	C	N	O	S	0	0
			4353	2754	764	821	14		
1	Z	537	Total	C	N	O	S	0	0
			4353	2754	764	821	14		
1	1	537	Total	C	N	O	S	0	0
			4353	2754	764	821	14		
1	2	537	Total	C	N	O	S	0	0
			4353	2754	764	821	14		
1	3	537	Total	C	N	O	S	0	0
			4353	2754	764	821	14		
1	4	537	Total	C	N	O	S	0	0
			4353	2754	764	821	14		
1	5	537	Total	C	N	O	S	0	0
			4353	2754	764	821	14		
1	6	537	Total	C	N	O	S	0	0
			4353	2754	764	821	14		
1	a	537	Total	C	N	O	S	0	0
			4353	2754	764	821	14		
1	b	537	Total	C	N	O	S	0	0
			4353	2754	764	821	14		
1	c	537	Total	C	N	O	S	0	0
			4353	2754	764	821	14		
1	d	537	Total	C	N	O	S	0	0
			4353	2754	764	821	14		
1	e	537	Total	C	N	O	S	0	0
			4353	2754	764	821	14		
1	f	537	Total	C	N	O	S	0	0
			4353	2754	764	821	14		

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Mol	Chain	Residues	Atoms					AltConf	Trace
1	g	537	Total	C	N	O	S	0	0
			4353	2754	764	821	14		
1	h	537	Total	C	N	O	S	0	0
			4353	2754	764	821	14		
1	i	537	Total	C	N	O	S	0	0
			4353	2754	764	821	14		
1	j	537	Total	C	N	O	S	0	0
			4353	2754	764	821	14		
1	k	537	Total	C	N	O	S	0	0
			4353	2754	764	821	14		
1	l	537	Total	C	N	O	S	0	0
			4353	2754	764	821	14		
1	m	537	Total	C	N	O	S	0	0
			4353	2754	764	821	14		
1	n	537	Total	C	N	O	S	0	0
			4353	2754	764	821	14		
1	o	537	Total	C	N	O	S	0	0
			4353	2754	764	821	14		
1	p	537	Total	C	N	O	S	0	0
			4353	2754	764	821	14		
1	q	537	Total	C	N	O	S	0	0
			4353	2754	764	821	14		
1	r	537	Total	C	N	O	S	0	0
			4353	2754	764	821	14		
1	s	537	Total	C	N	O	S	0	0
			4353	2754	764	821	14		
1	t	537	Total	C	N	O	S	0	0
			4353	2754	764	821	14		
1	u	537	Total	C	N	O	S	0	0
			4353	2754	764	821	14		
1	v	537	Total	C	N	O	S	0	0
			4353	2754	764	821	14		
1	w	537	Total	C	N	O	S	0	0
			4353	2754	764	821	14		
1	x	537	Total	C	N	O	S	0	0
			4353	2754	764	821	14		
1	y	537	Total	C	N	O	S	0	0
			4353	2754	764	821	14		
1	z	537	Total	C	N	O	S	0	0
			4353	2754	764	821	14		
1	7	537	Total	C	N	O	S	0	0
			4353	2754	764	821	14		

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Mol	Chain	Residues	Atoms					AltConf	Trace
1	0	537	Total	C	N	O	S	0	0
			4353	2754	764	821	14		

There are 60 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
A	35	VAL	ILE	conflict	UNP A0A097PIK3
B	35	VAL	ILE	conflict	UNP A0A097PIK3
C	35	VAL	ILE	conflict	UNP A0A097PIK3
D	35	VAL	ILE	conflict	UNP A0A097PIK3
E	35	VAL	ILE	conflict	UNP A0A097PIK3
F	35	VAL	ILE	conflict	UNP A0A097PIK3
G	35	VAL	ILE	conflict	UNP A0A097PIK3
H	35	VAL	ILE	conflict	UNP A0A097PIK3
I	35	VAL	ILE	conflict	UNP A0A097PIK3
J	35	VAL	ILE	conflict	UNP A0A097PIK3
K	35	VAL	ILE	conflict	UNP A0A097PIK3
L	35	VAL	ILE	conflict	UNP A0A097PIK3
M	35	VAL	ILE	conflict	UNP A0A097PIK3
N	35	VAL	ILE	conflict	UNP A0A097PIK3
O	35	VAL	ILE	conflict	UNP A0A097PIK3
P	35	VAL	ILE	conflict	UNP A0A097PIK3
Q	35	VAL	ILE	conflict	UNP A0A097PIK3
R	35	VAL	ILE	conflict	UNP A0A097PIK3
S	35	VAL	ILE	conflict	UNP A0A097PIK3
T	35	VAL	ILE	conflict	UNP A0A097PIK3
U	35	VAL	ILE	conflict	UNP A0A097PIK3
V	35	VAL	ILE	conflict	UNP A0A097PIK3
W	35	VAL	ILE	conflict	UNP A0A097PIK3
X	35	VAL	ILE	conflict	UNP A0A097PIK3
Y	35	VAL	ILE	conflict	UNP A0A097PIK3
Z	35	VAL	ILE	conflict	UNP A0A097PIK3
1	35	VAL	ILE	conflict	UNP A0A097PIK3
2	35	VAL	ILE	conflict	UNP A0A097PIK3
3	35	VAL	ILE	conflict	UNP A0A097PIK3
4	35	VAL	ILE	conflict	UNP A0A097PIK3
5	35	VAL	ILE	conflict	UNP A0A097PIK3
6	35	VAL	ILE	conflict	UNP A0A097PIK3
a	35	VAL	ILE	conflict	UNP A0A097PIK3
b	35	VAL	ILE	conflict	UNP A0A097PIK3
c	35	VAL	ILE	conflict	UNP A0A097PIK3
d	35	VAL	ILE	conflict	UNP A0A097PIK3

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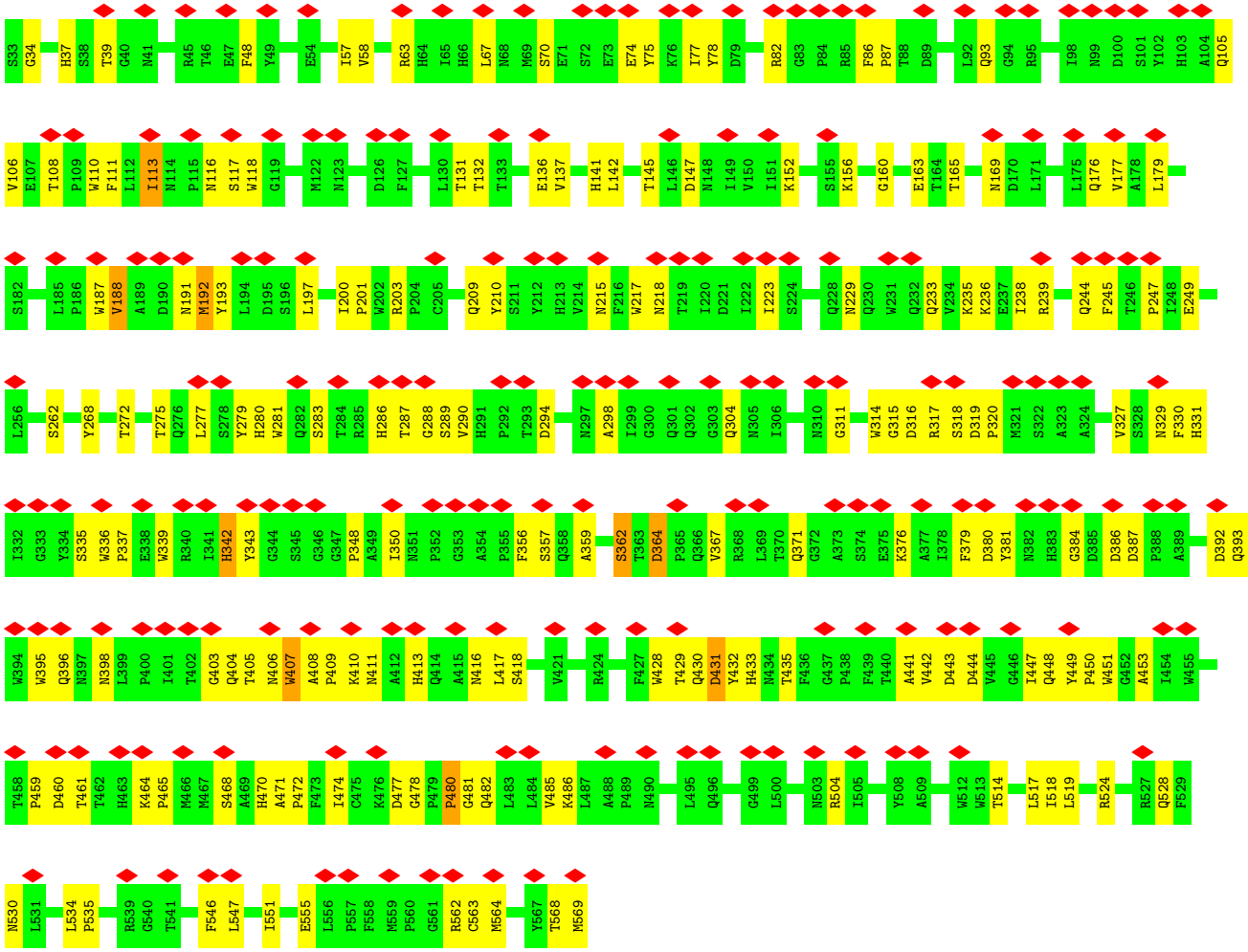
Chain	Residue	Modelled	Actual	Comment	Reference
e	35	VAL	ILE	conflict	UNP A0A097PIK3
f	35	VAL	ILE	conflict	UNP A0A097PIK3
g	35	VAL	ILE	conflict	UNP A0A097PIK3
h	35	VAL	ILE	conflict	UNP A0A097PIK3
i	35	VAL	ILE	conflict	UNP A0A097PIK3
j	35	VAL	ILE	conflict	UNP A0A097PIK3
k	35	VAL	ILE	conflict	UNP A0A097PIK3
l	35	VAL	ILE	conflict	UNP A0A097PIK3
m	35	VAL	ILE	conflict	UNP A0A097PIK3
n	35	VAL	ILE	conflict	UNP A0A097PIK3
o	35	VAL	ILE	conflict	UNP A0A097PIK3
p	35	VAL	ILE	conflict	UNP A0A097PIK3
q	35	VAL	ILE	conflict	UNP A0A097PIK3
r	35	VAL	ILE	conflict	UNP A0A097PIK3
s	35	VAL	ILE	conflict	UNP A0A097PIK3
t	35	VAL	ILE	conflict	UNP A0A097PIK3
u	35	VAL	ILE	conflict	UNP A0A097PIK3
v	35	VAL	ILE	conflict	UNP A0A097PIK3
w	35	VAL	ILE	conflict	UNP A0A097PIK3
x	35	VAL	ILE	conflict	UNP A0A097PIK3
y	35	VAL	ILE	conflict	UNP A0A097PIK3
z	35	VAL	ILE	conflict	UNP A0A097PIK3
7	35	VAL	ILE	conflict	UNP A0A097PIK3
0	35	VAL	ILE	conflict	UNP A0A097PIK3

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.

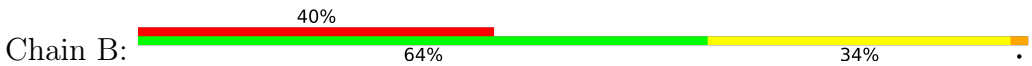
- Molecule 1: VP2

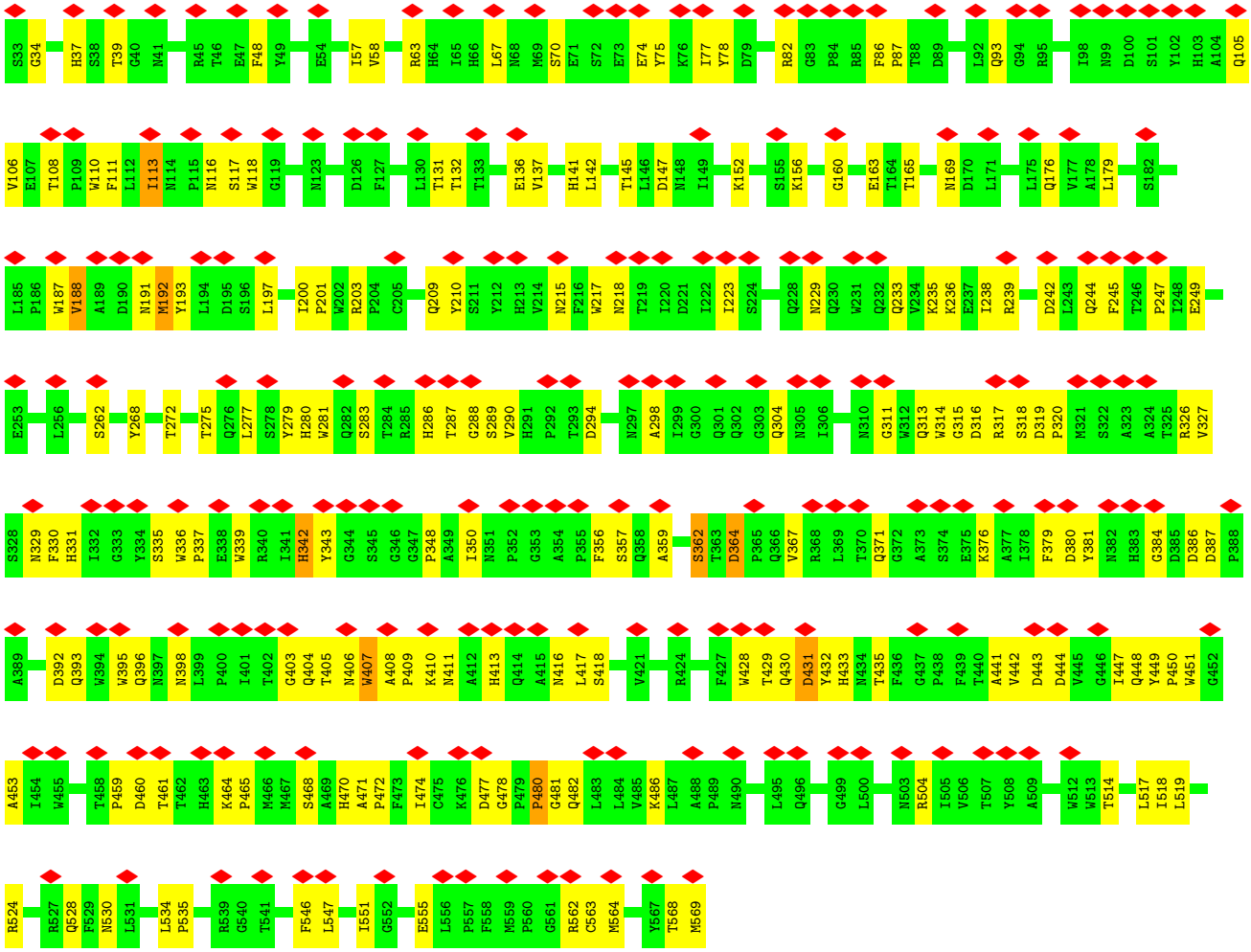
Chain A:



- Molecule 1: VP2

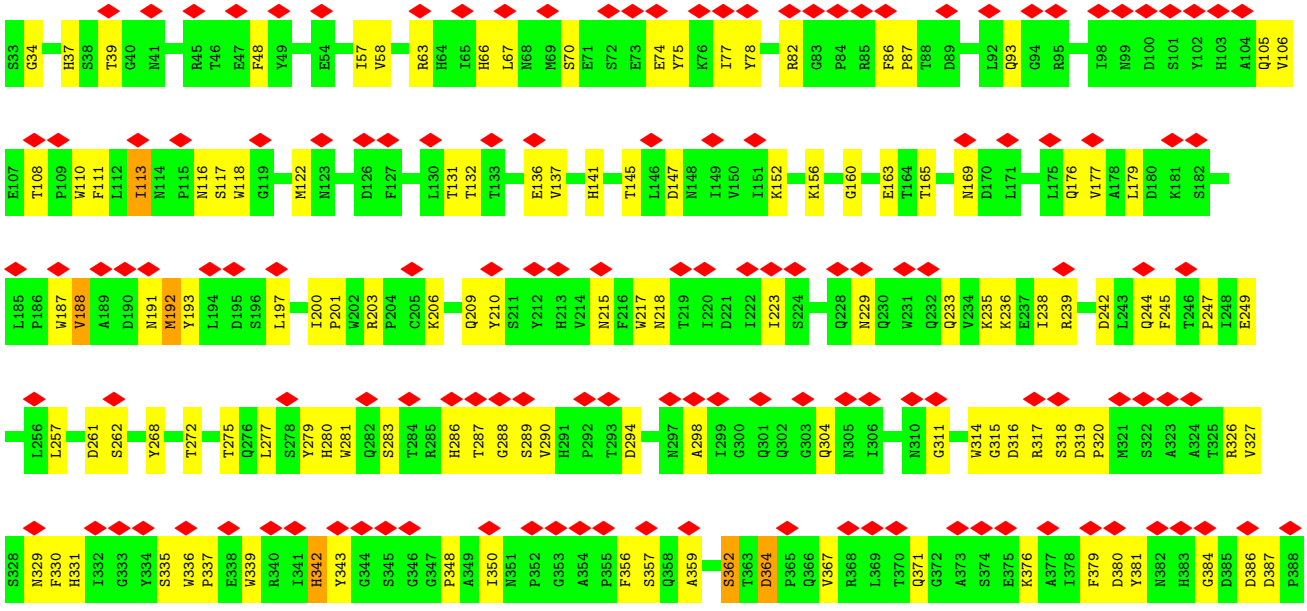
Chain B:

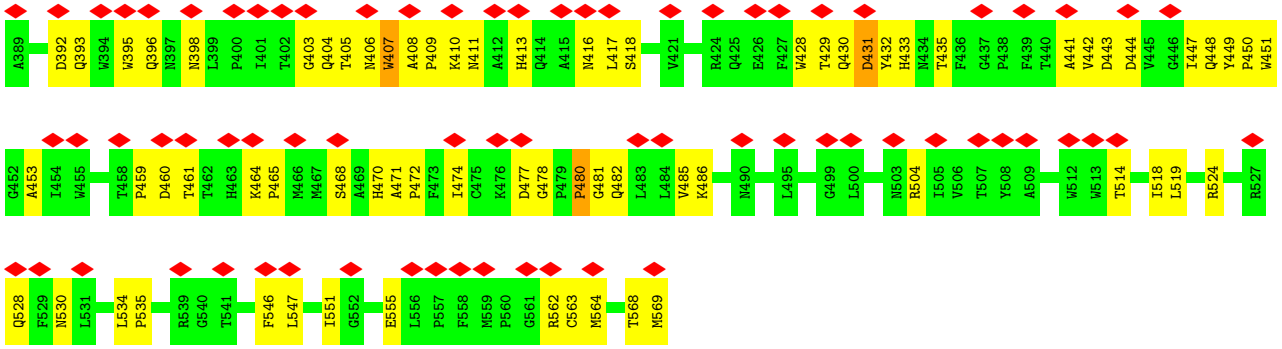




• Molecule 1: VP2

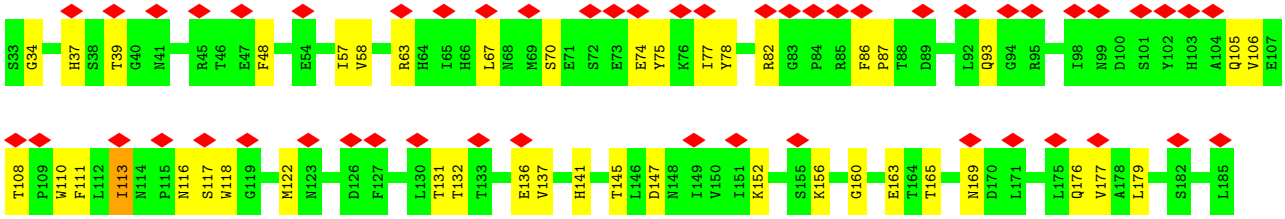
Chain C:





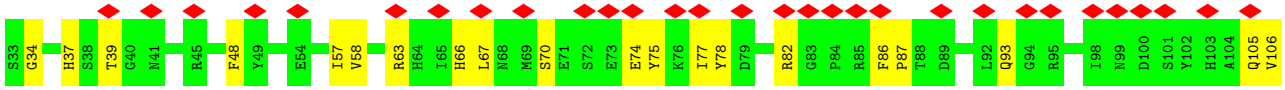
• Molecule 1: VP2

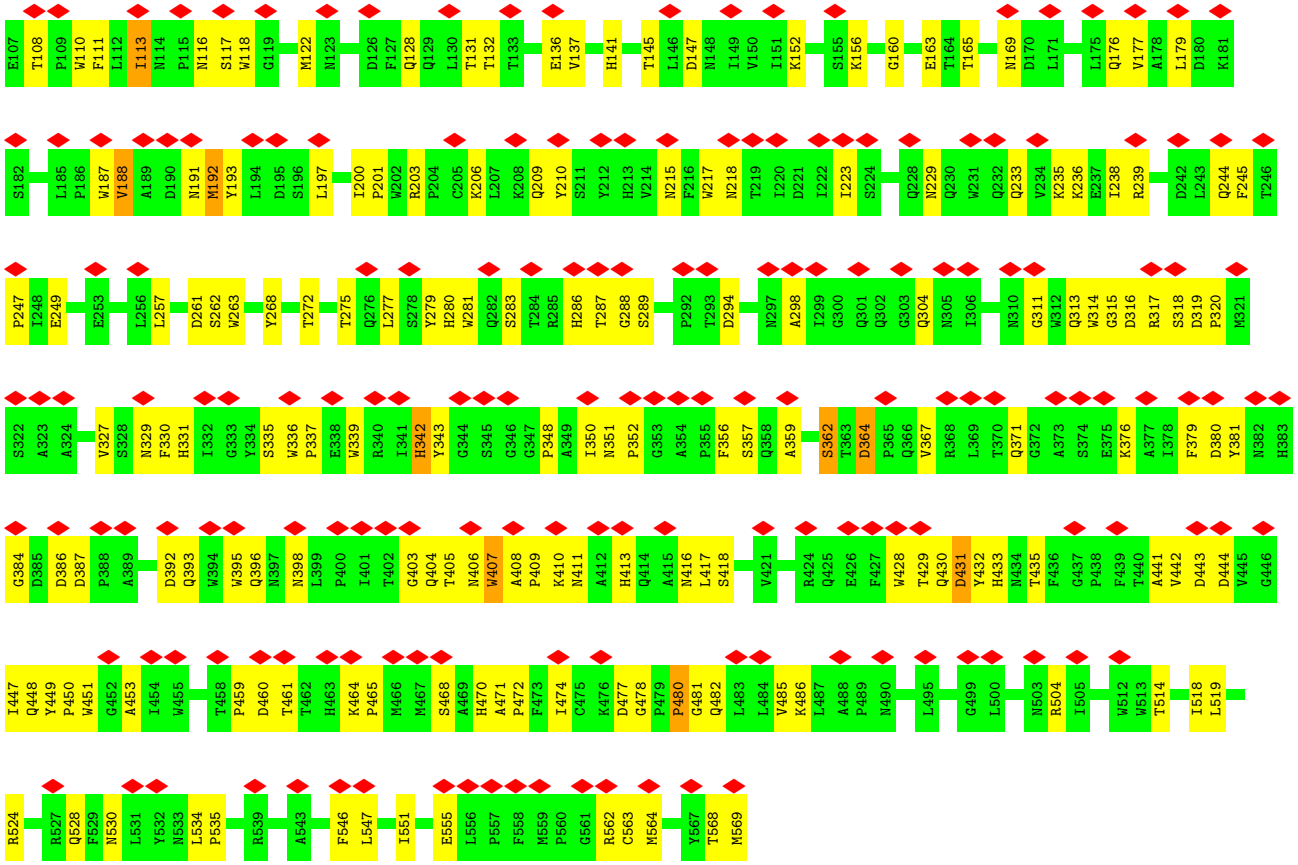
Chain D:



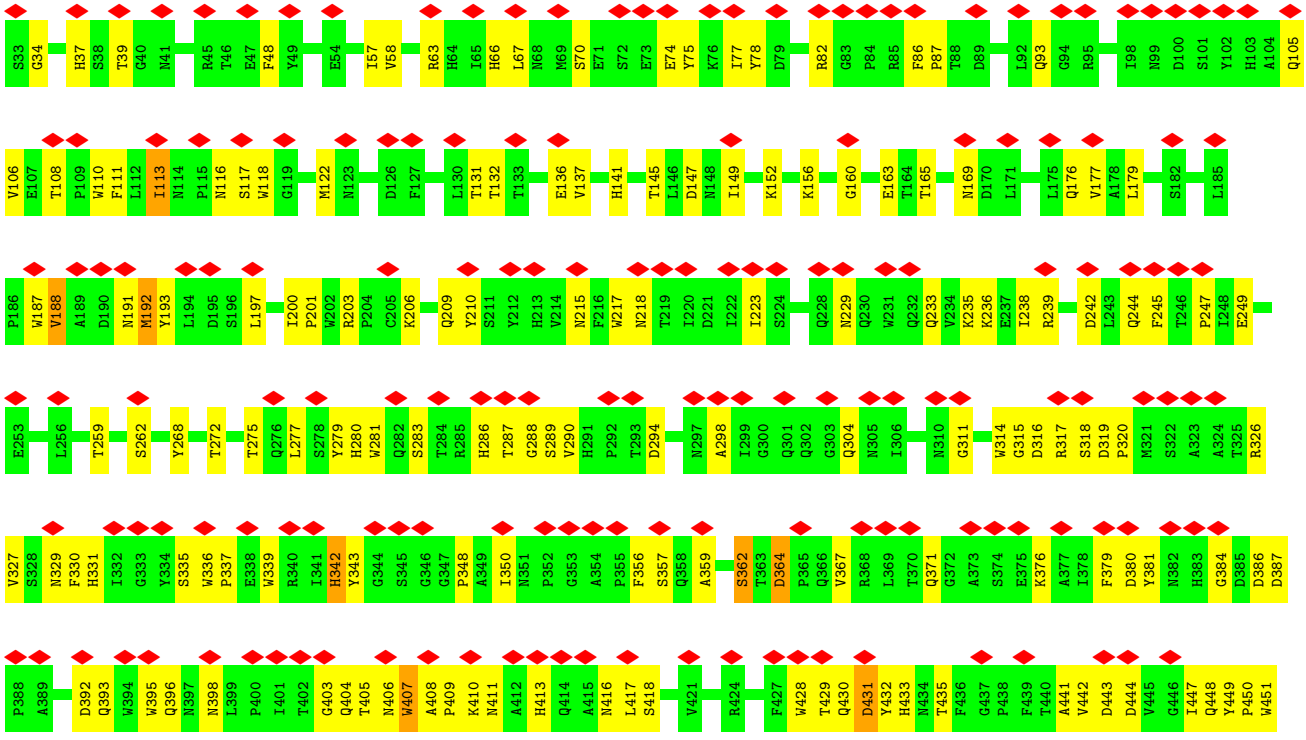
• Molecule 1: VP2

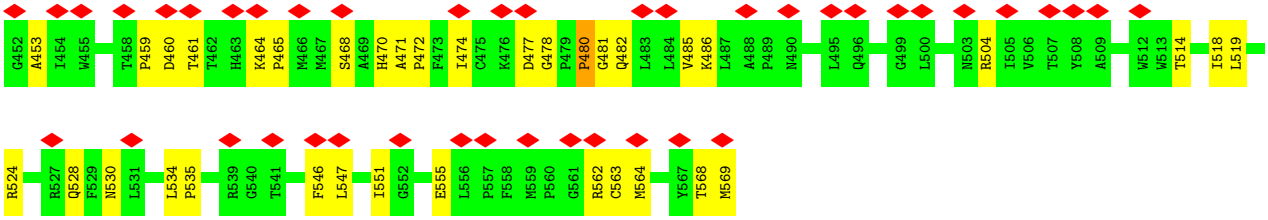
Chain E:





• Molecule 1: VP2



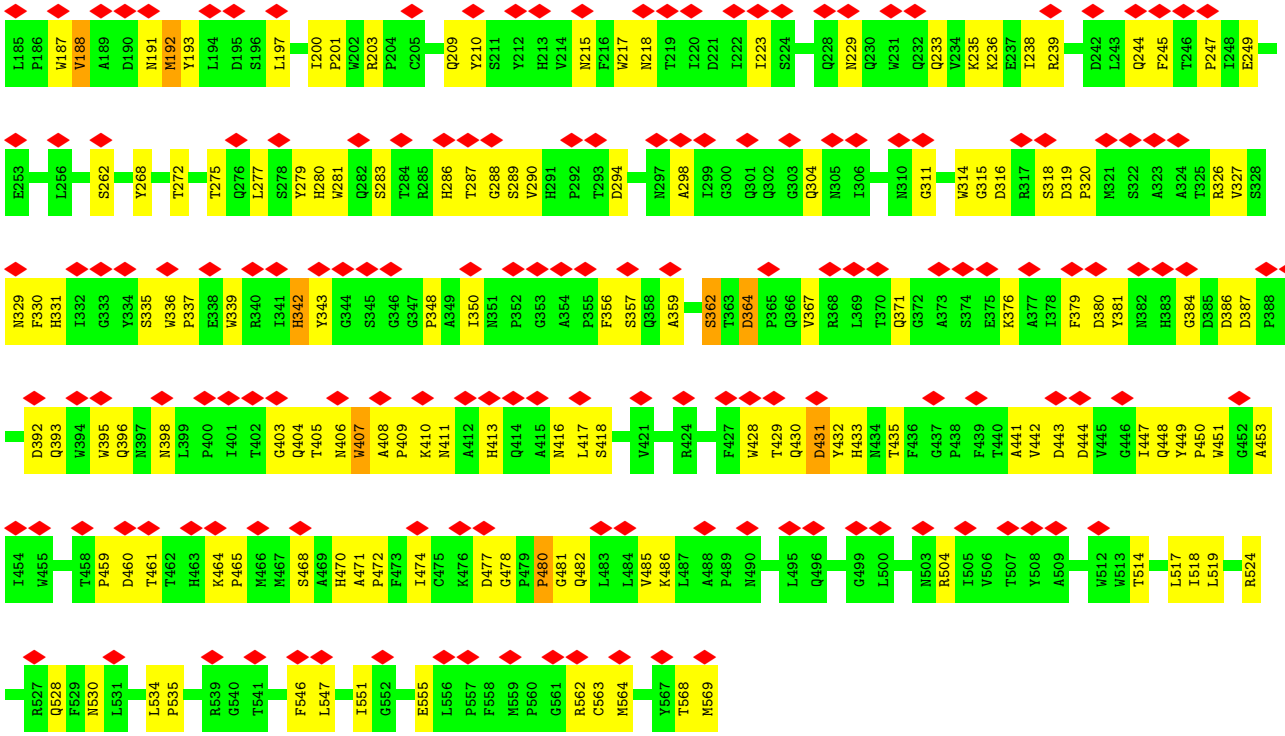


• Molecule 1: VP2

Chain G:

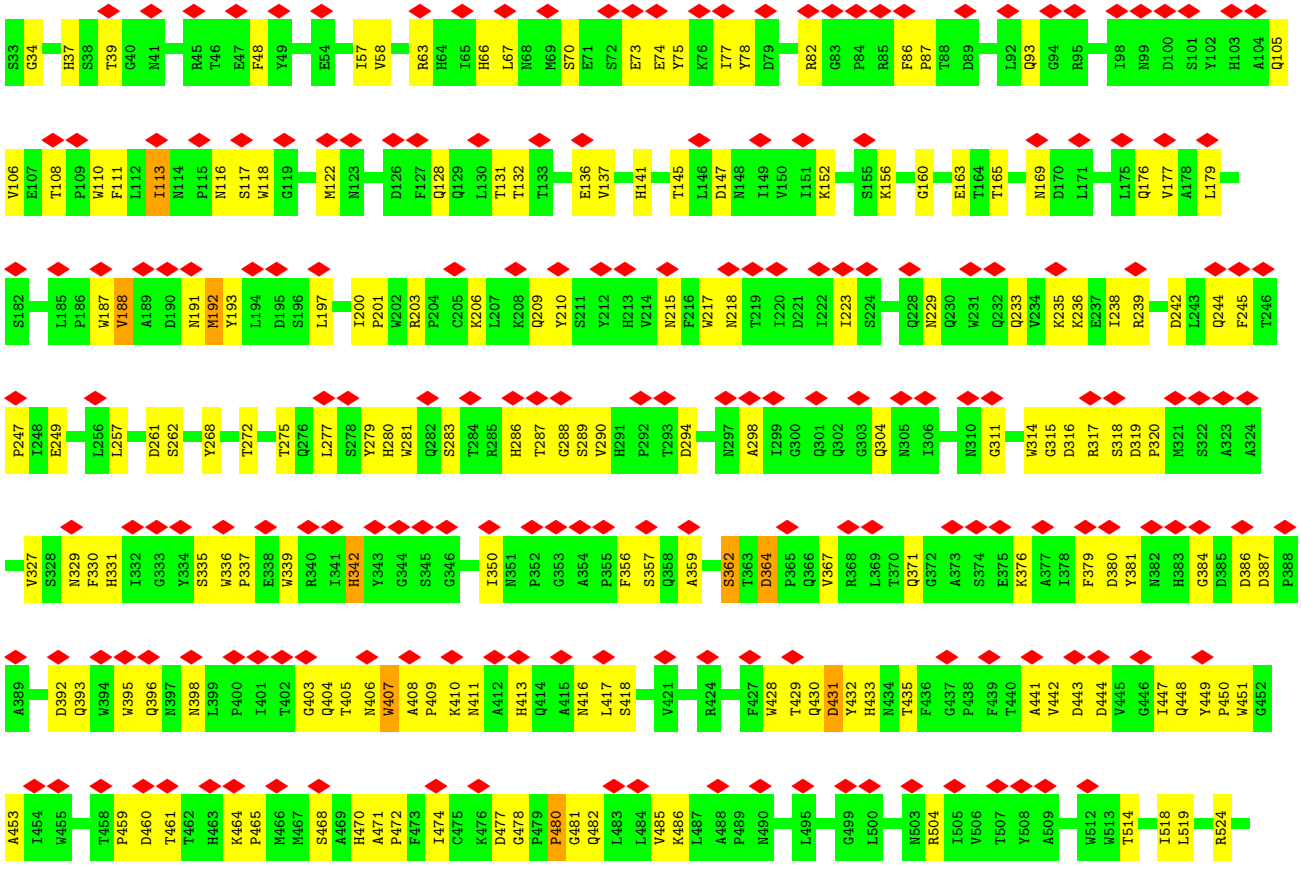
• Molecule 1: VP2

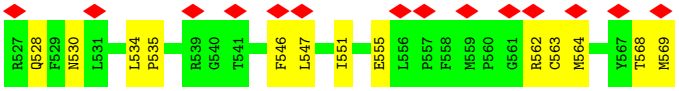
Chain H:



- Molecule 1: VP2

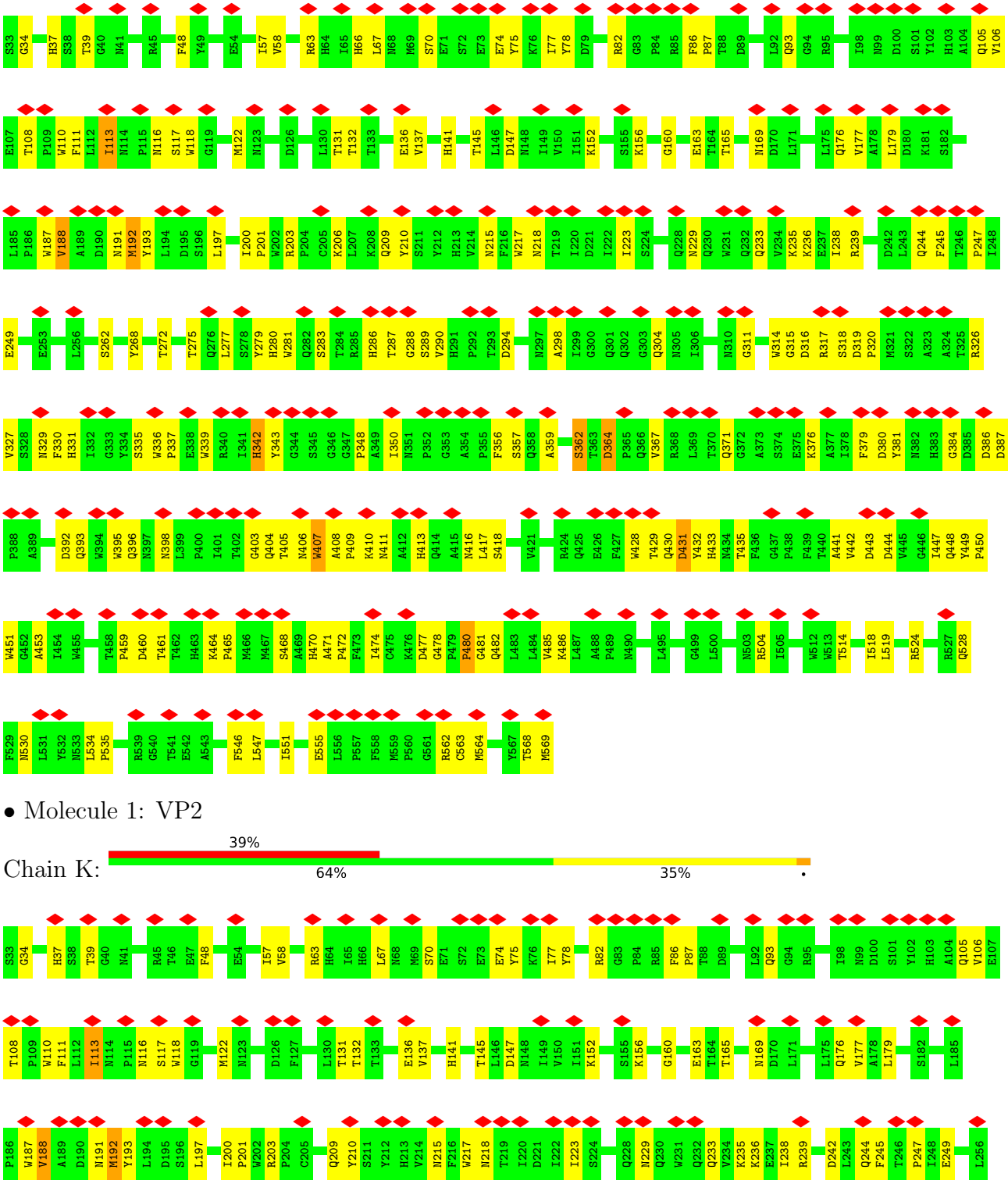
Chain I:





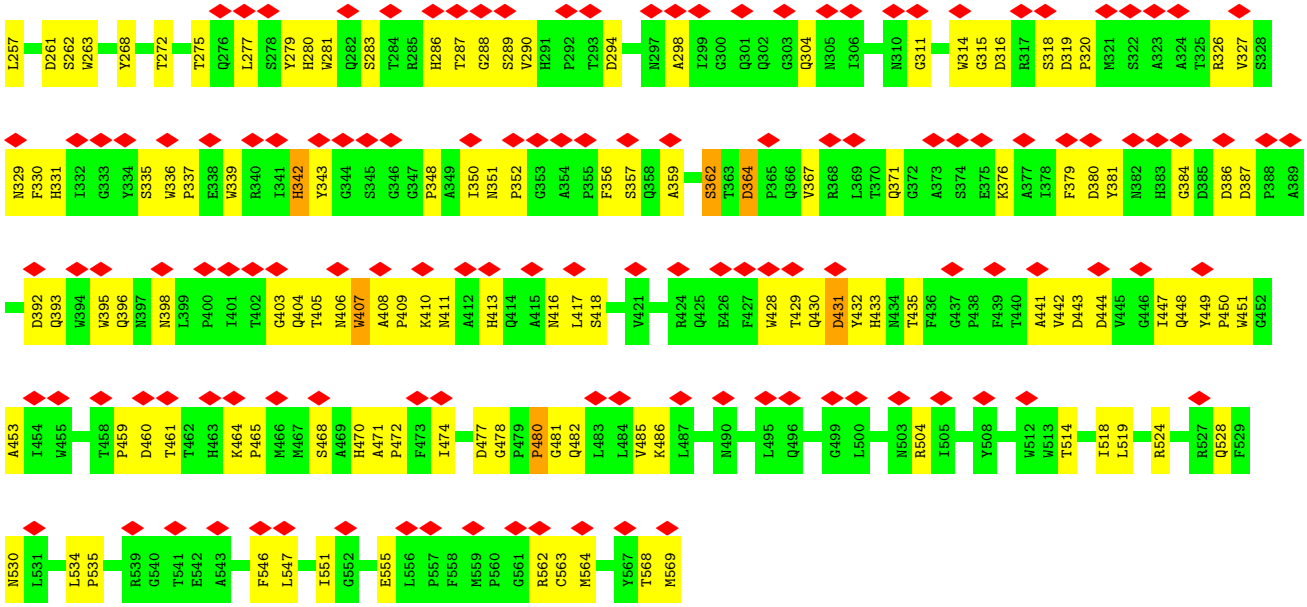
• Molecule 1: VP2

Chain J:



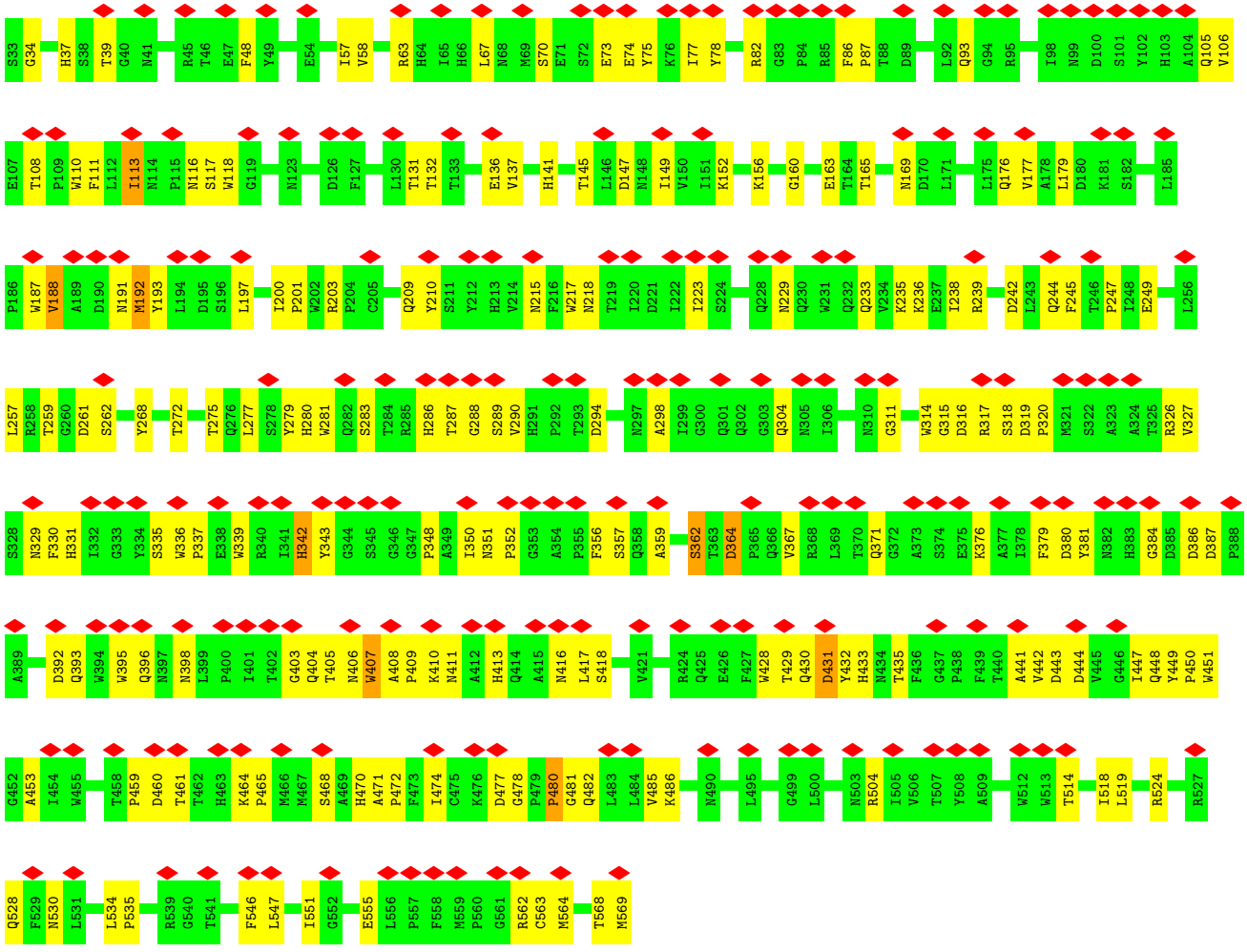
• Molecule 1: VP2

Chain K:



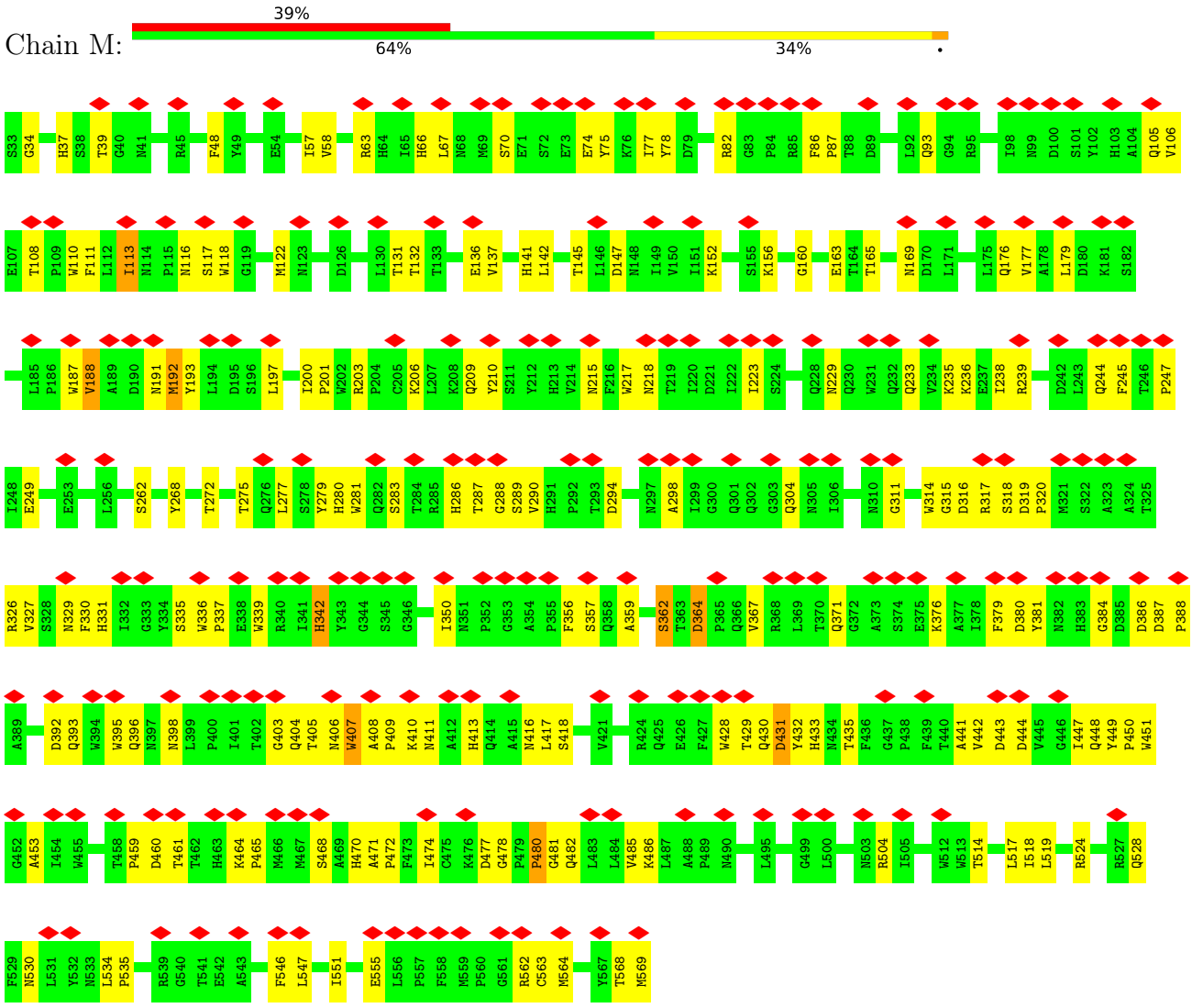
- Molecule 1: VP2

Chain L:



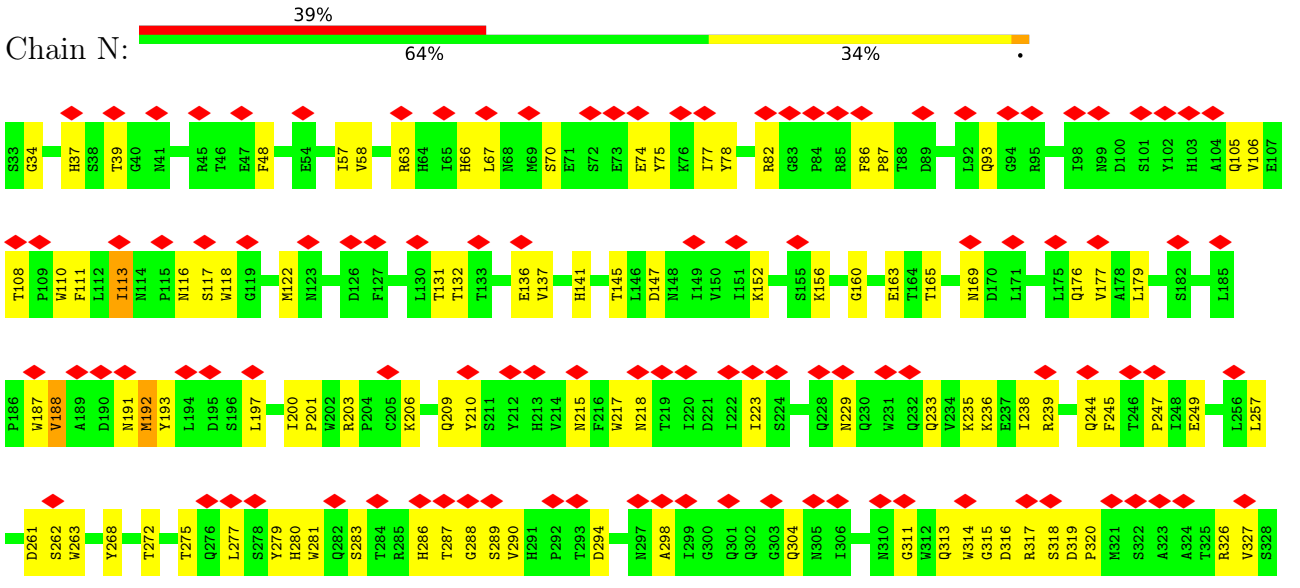
• Molecule 1: VP2

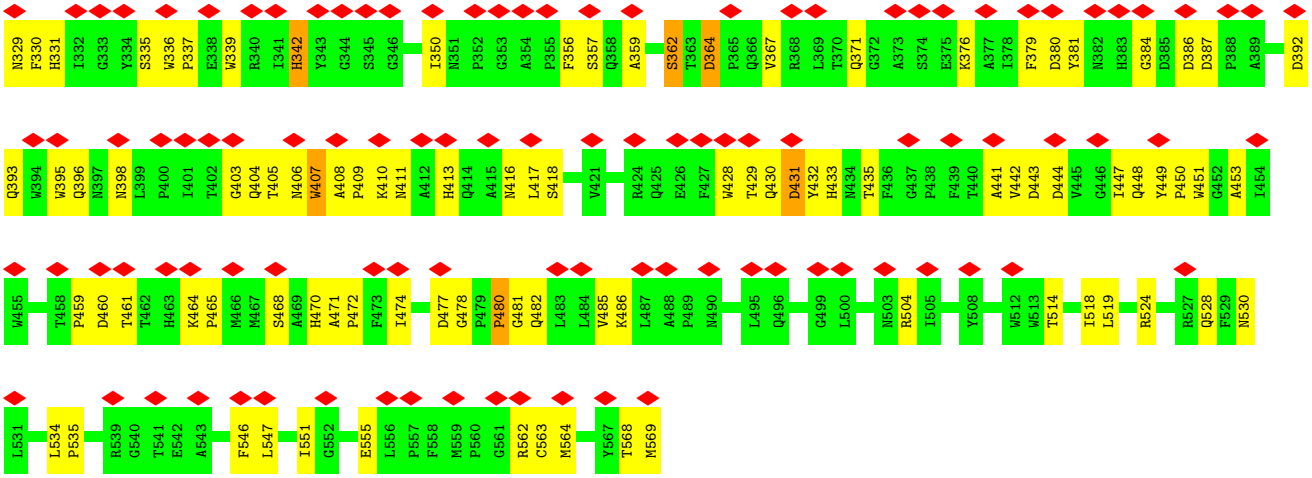
Chain M:



• Molecule 1: VP2

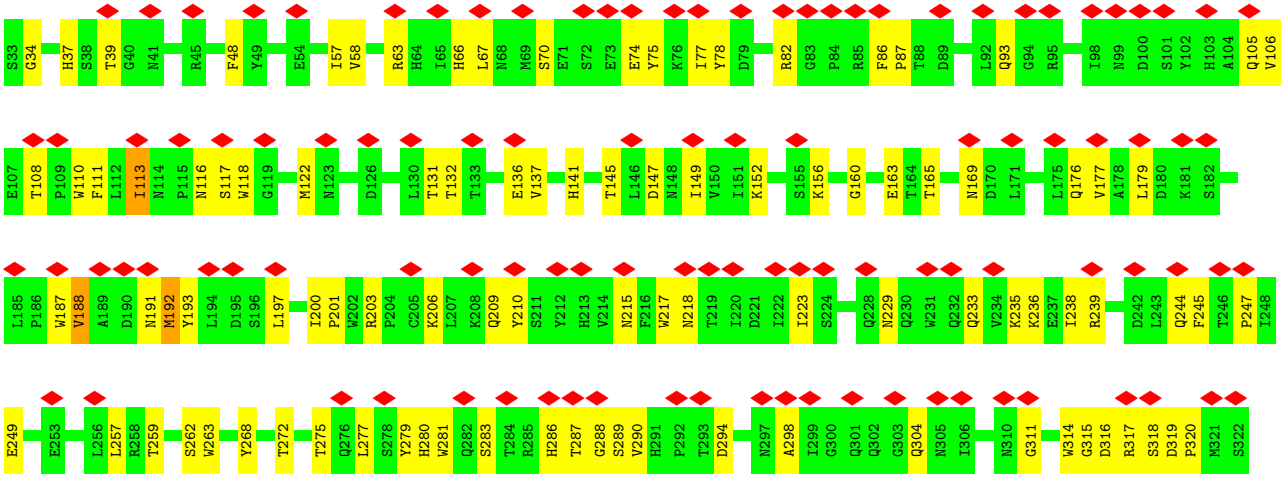
Chain N:





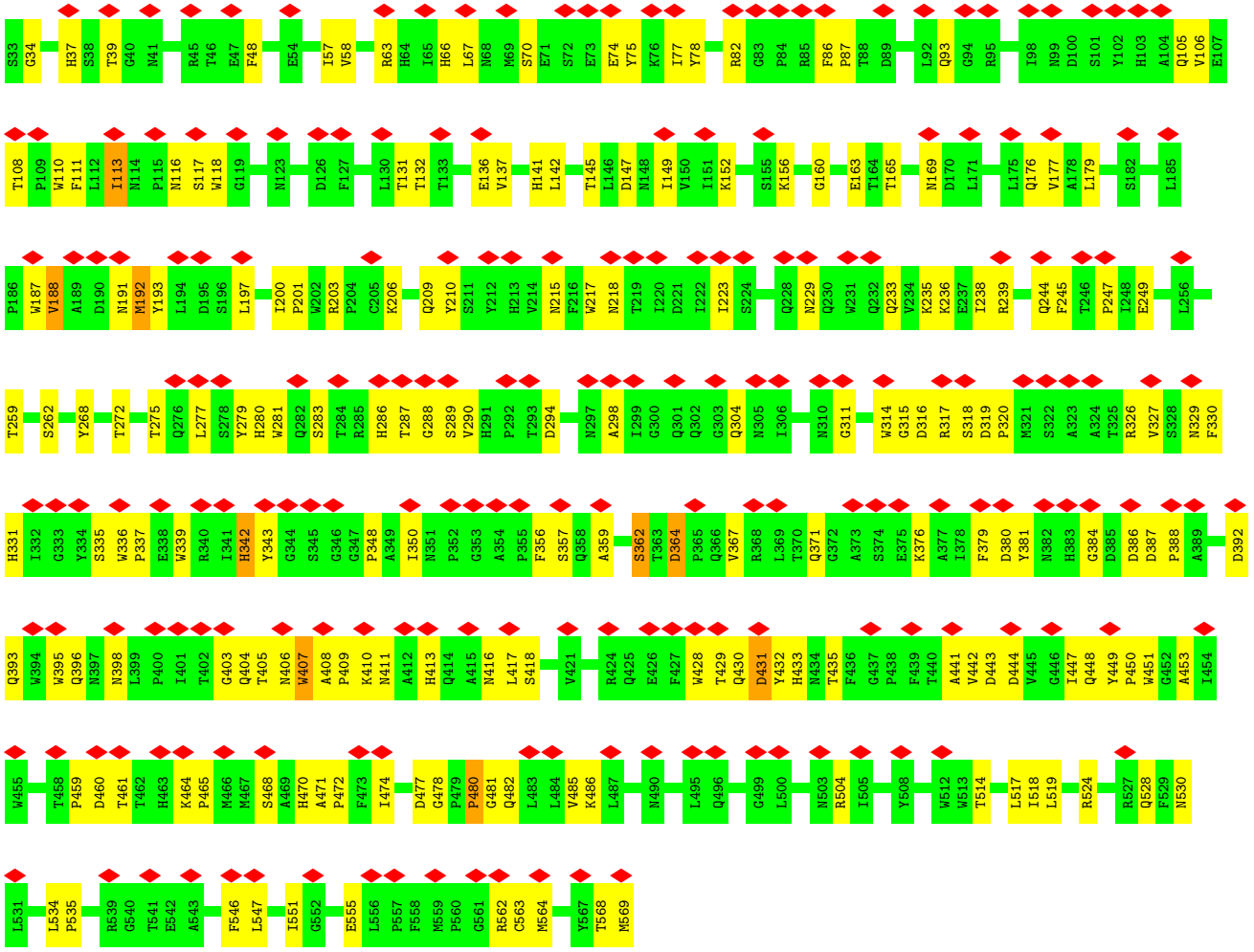
• Molecule 1: VP2

Chain O:



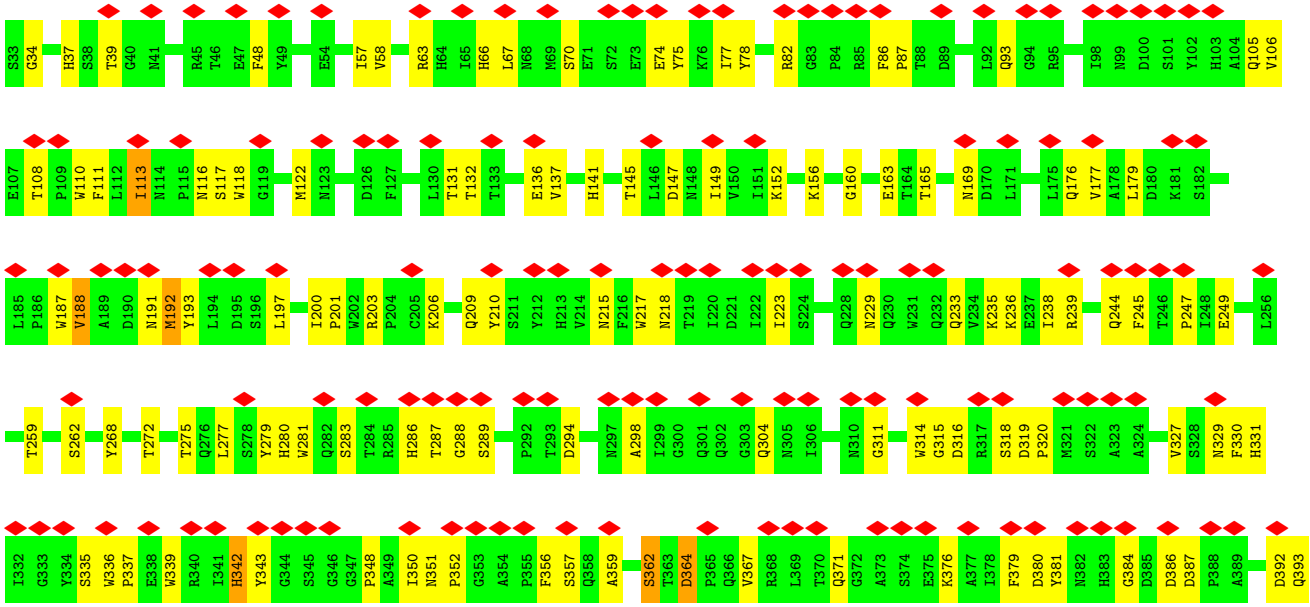
• Molecule 1: VP2

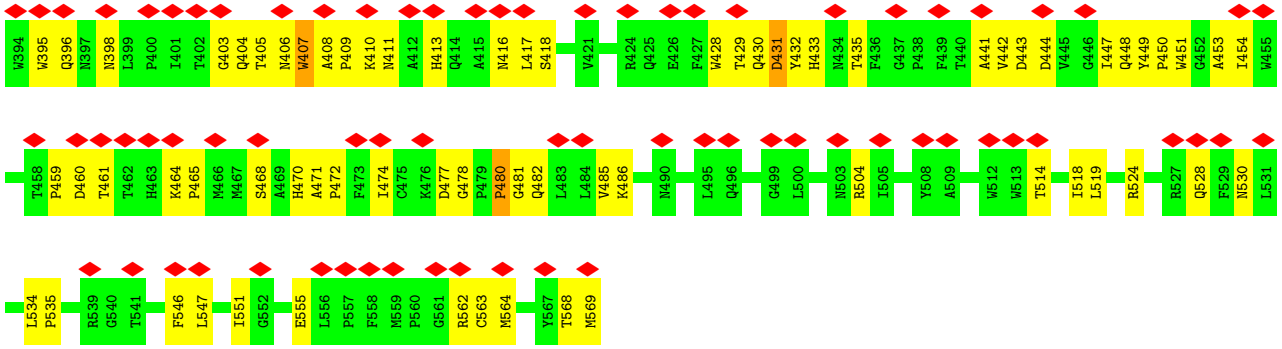
Chain P:



• Molecule 1: VP2

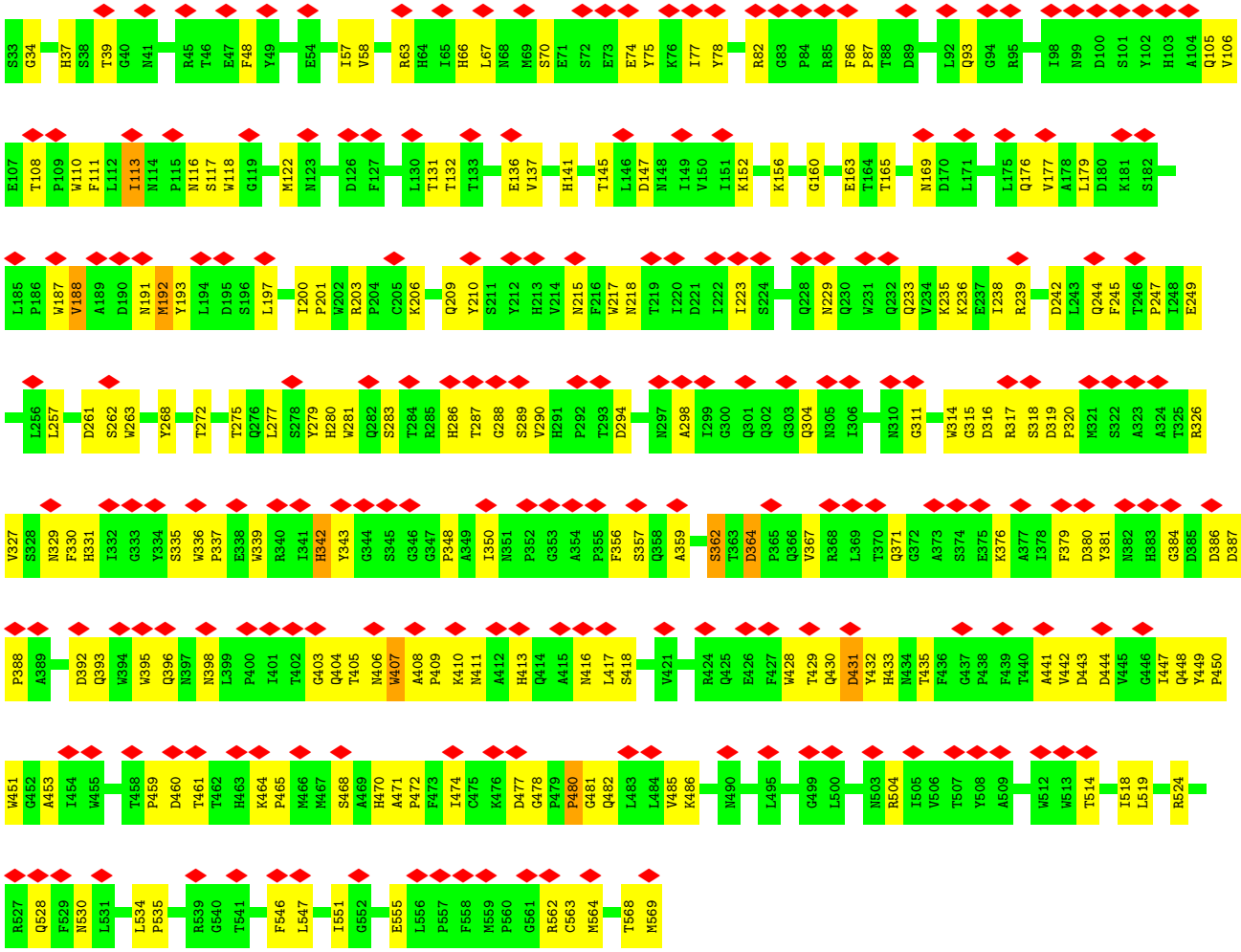
Chain Q:





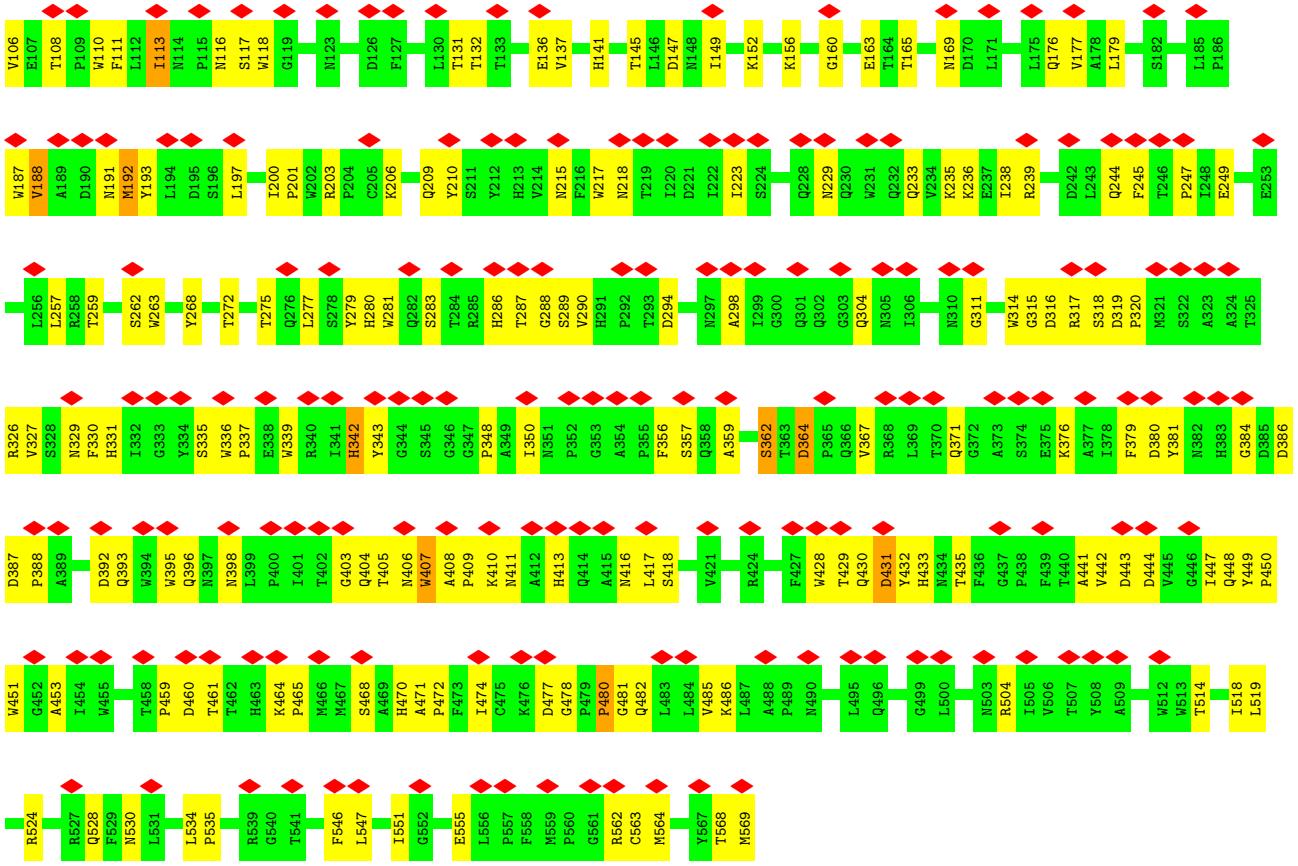
• Molecule 1: VP2

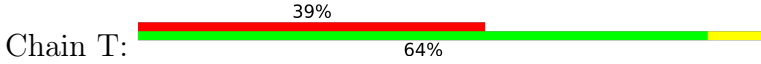
Chain R:

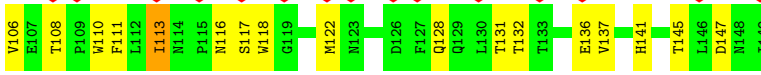


• Molecule 1: VP2

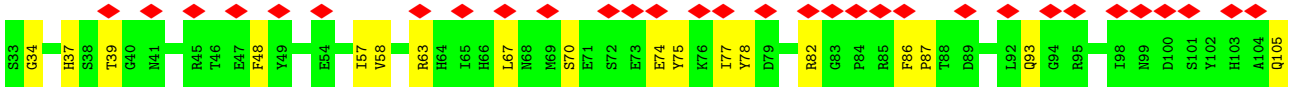
Chain S:

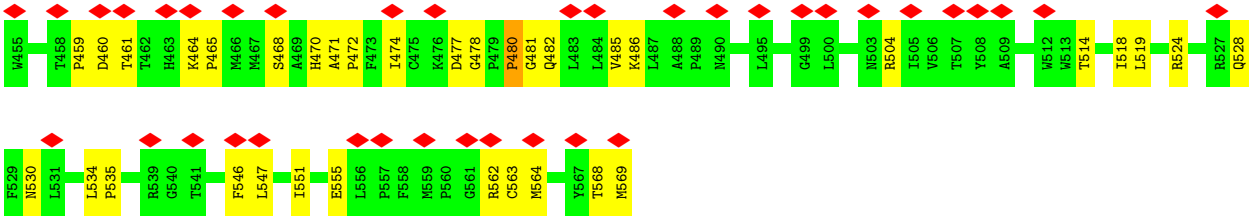






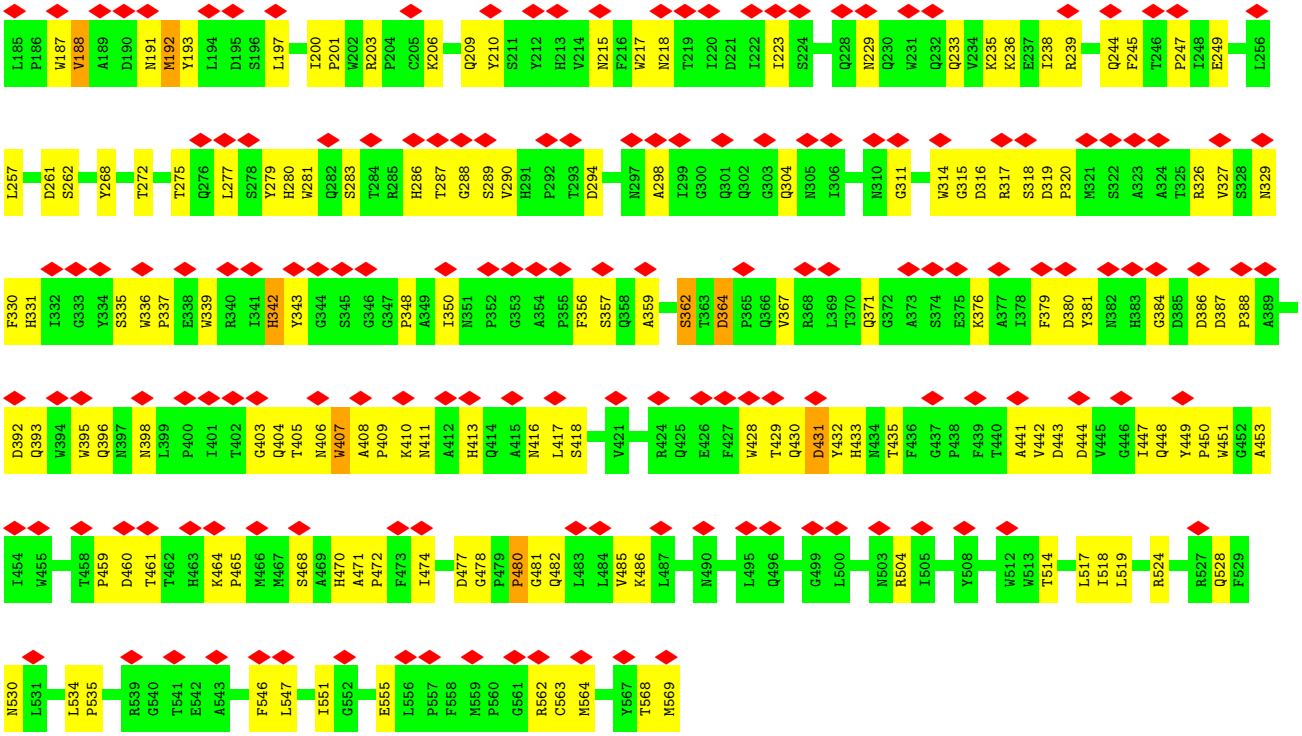
• Molecule 1: VP2





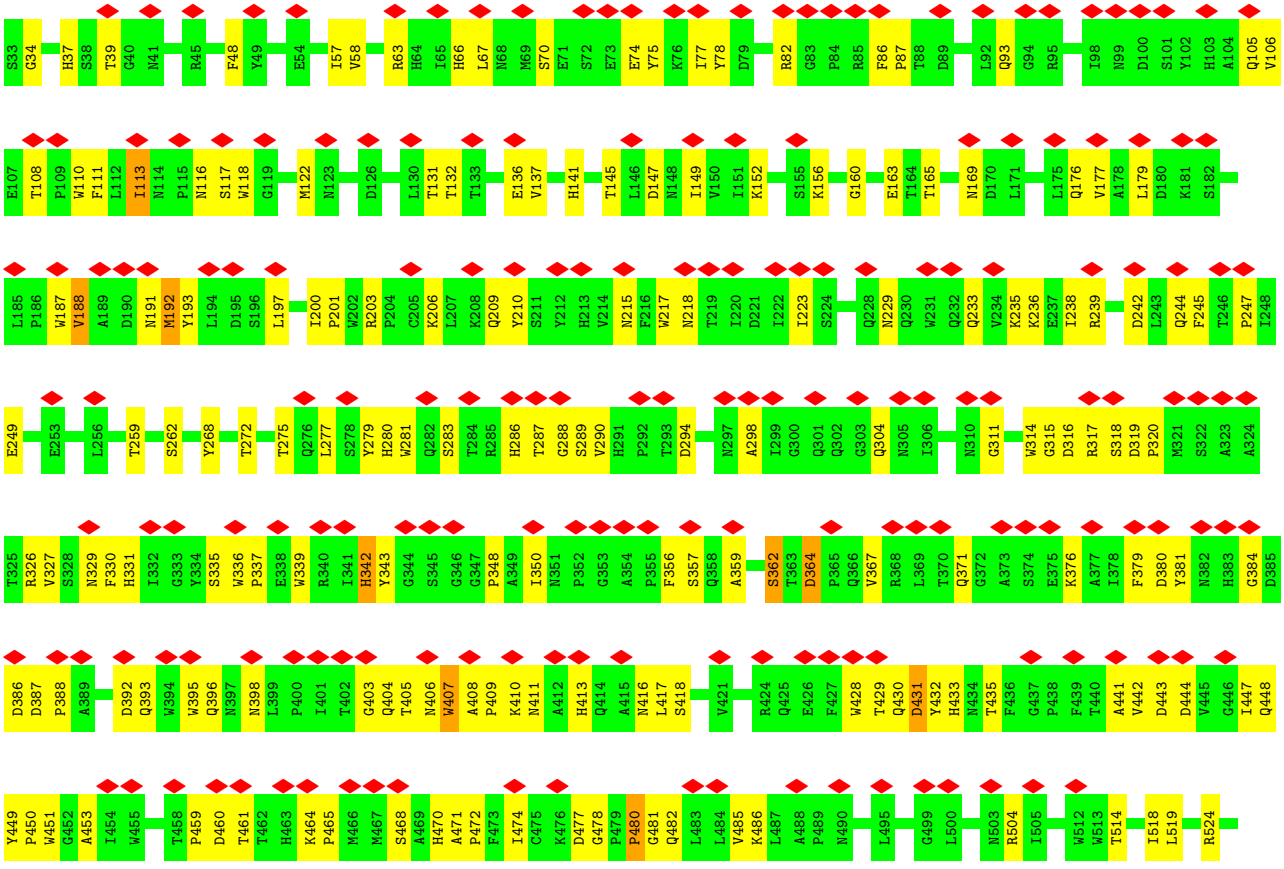
• Molecule 1: VP2

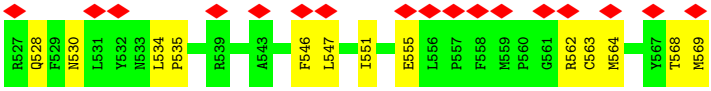
• Molecule 1: VP2



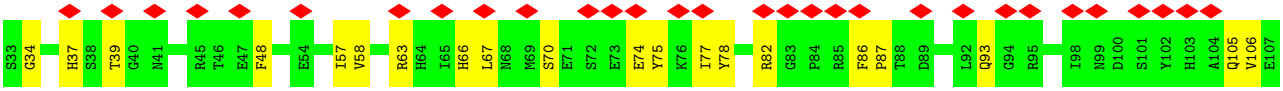
• Molecule 1: VP2

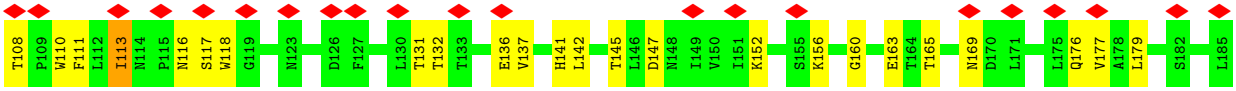
Chain W:

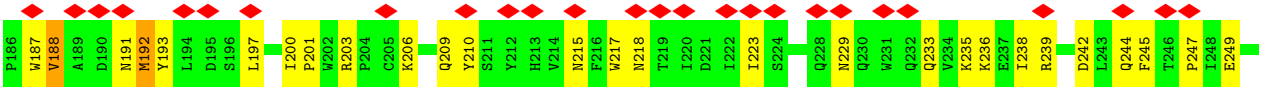


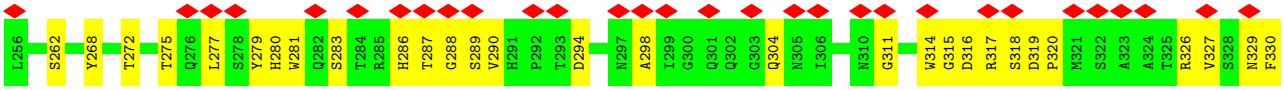


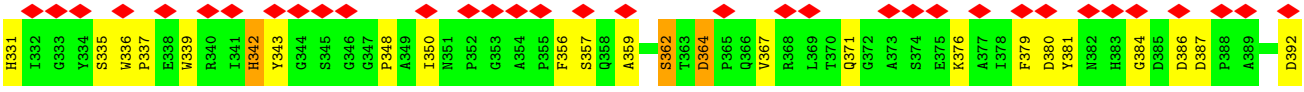
• Molecule 1: VP2

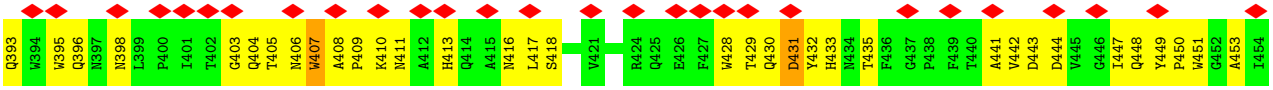


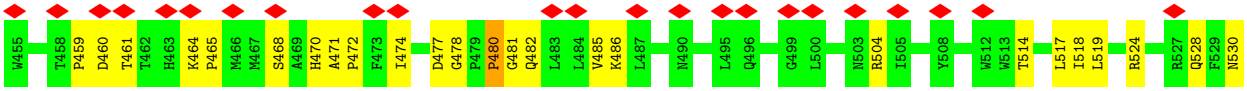


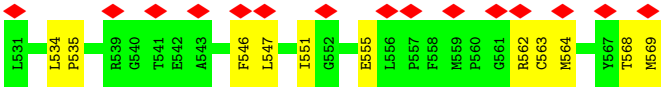




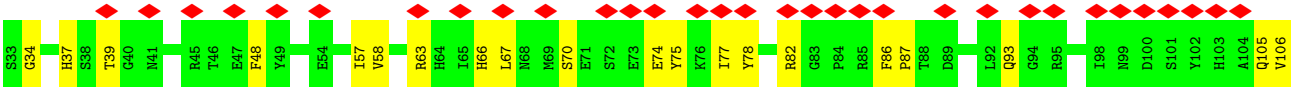


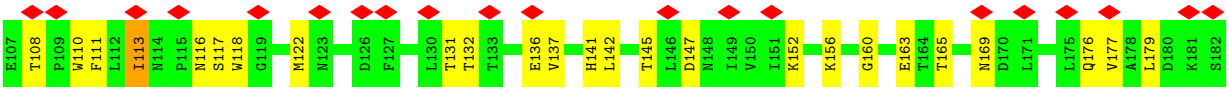


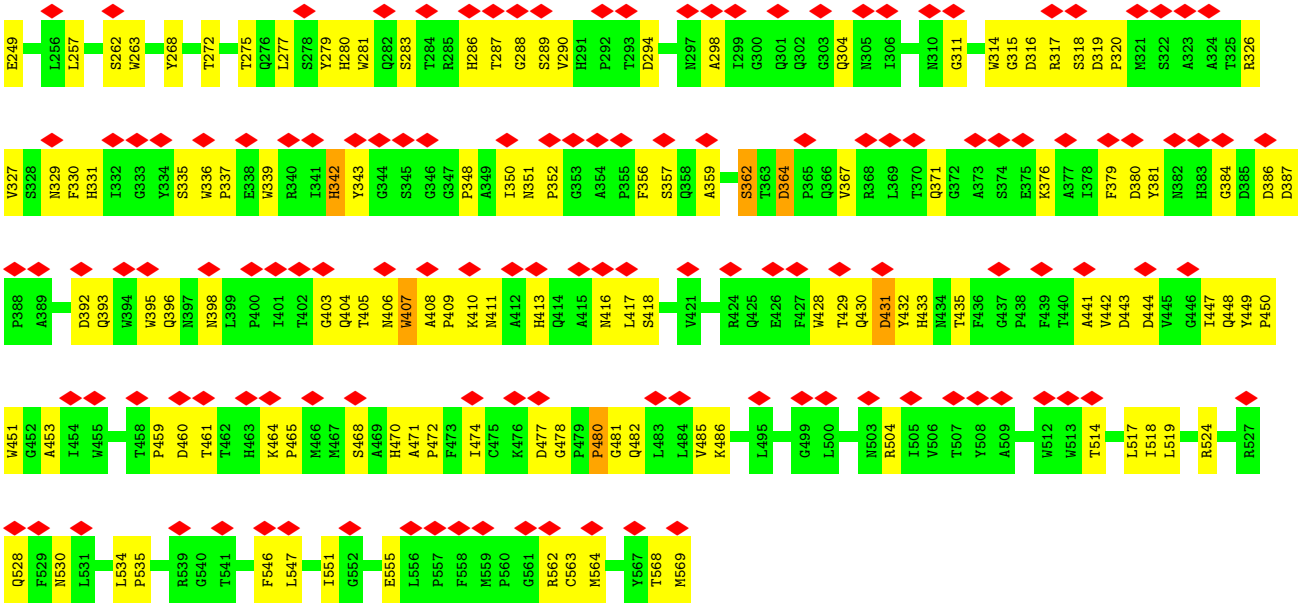




• Molecule 1: VP2

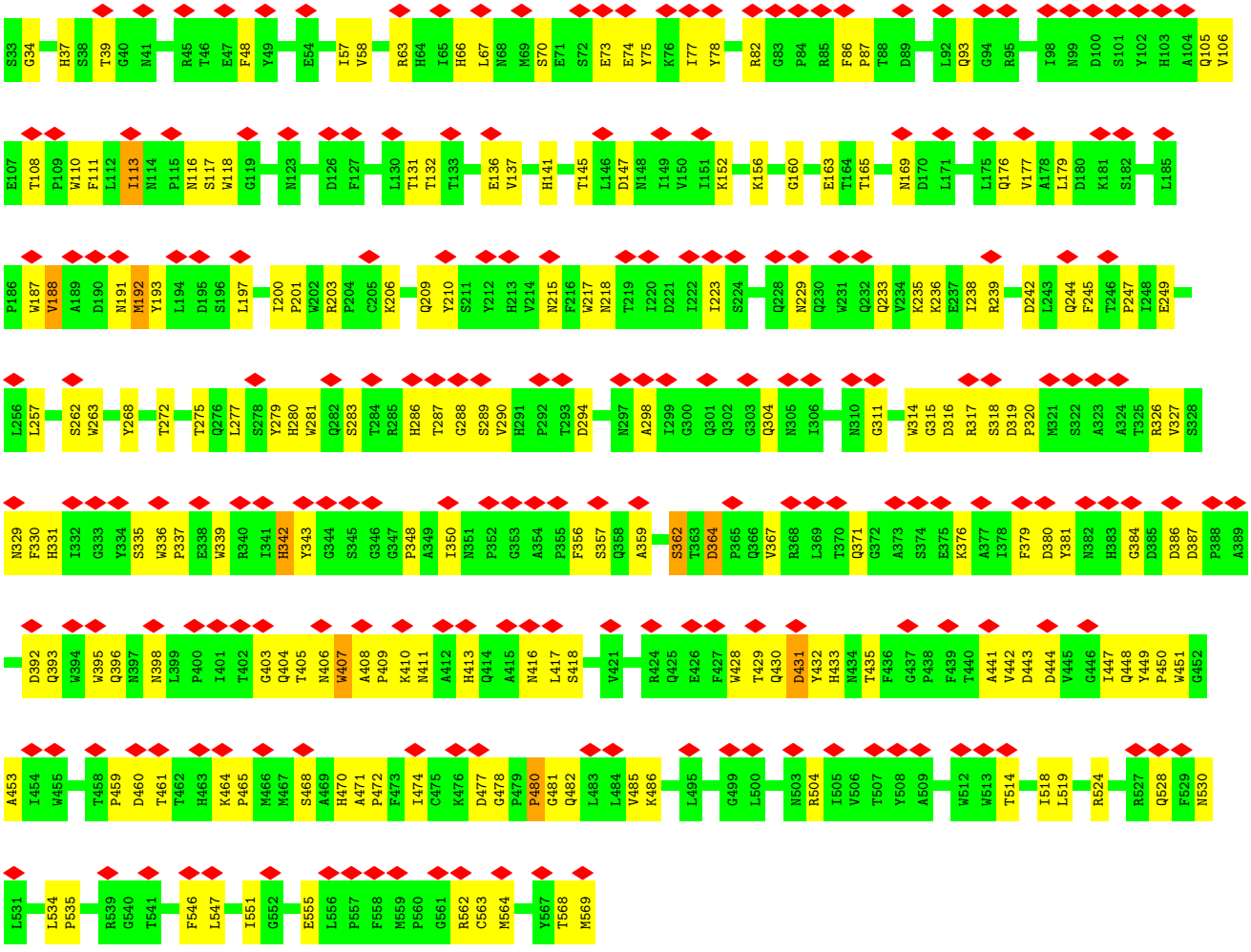






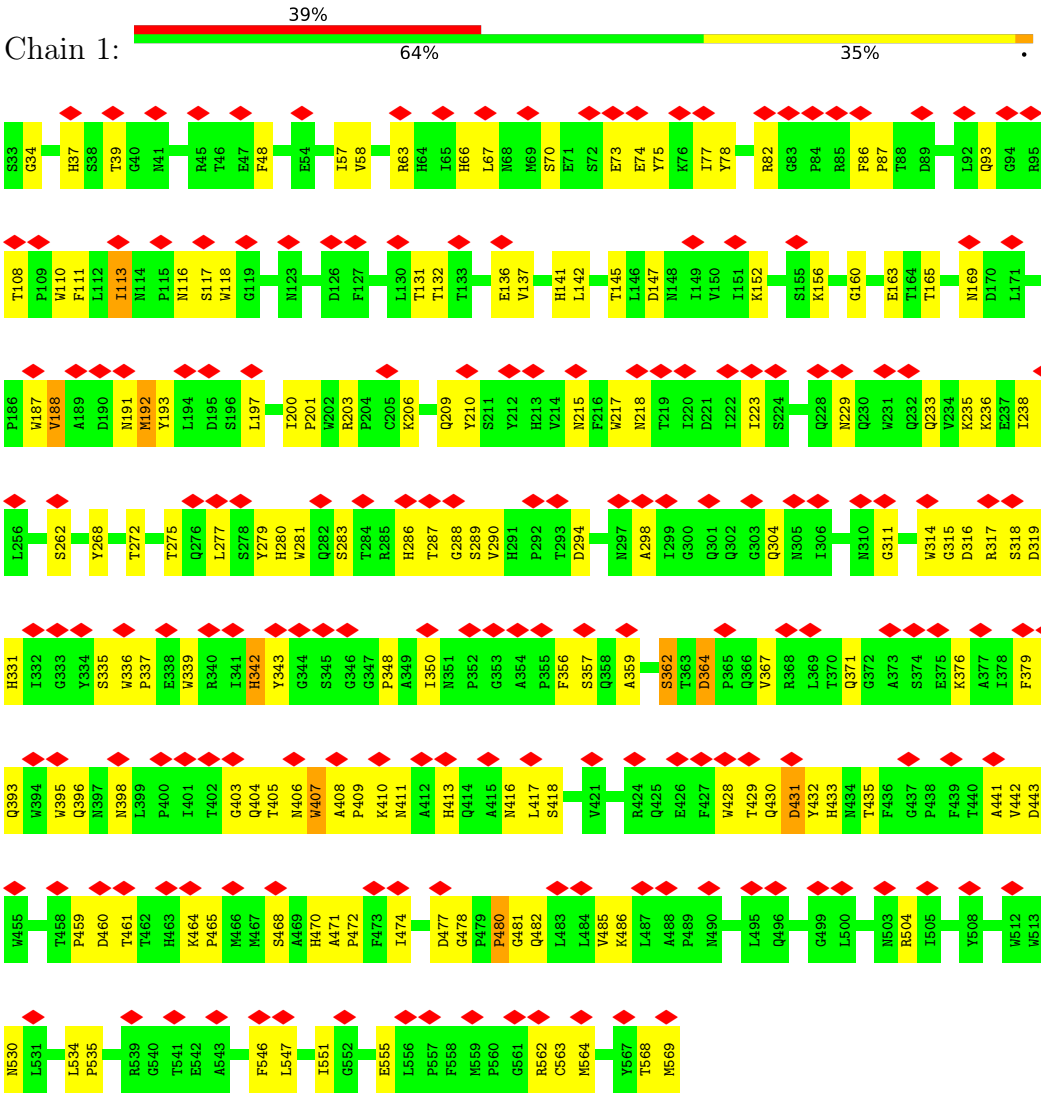
- Molecule 1: VP2

Chain Z:



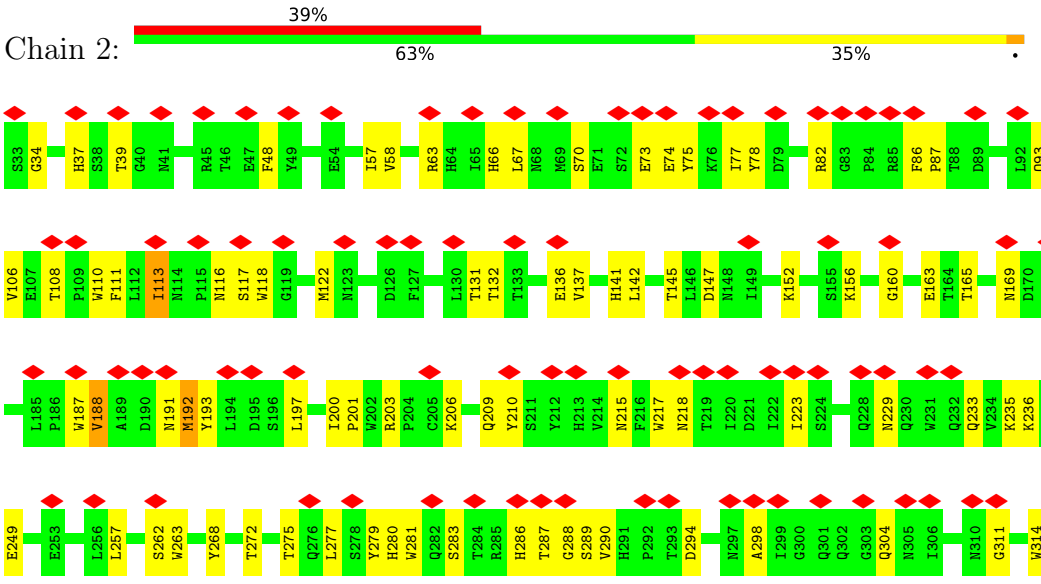
• Molecule 1: VP2

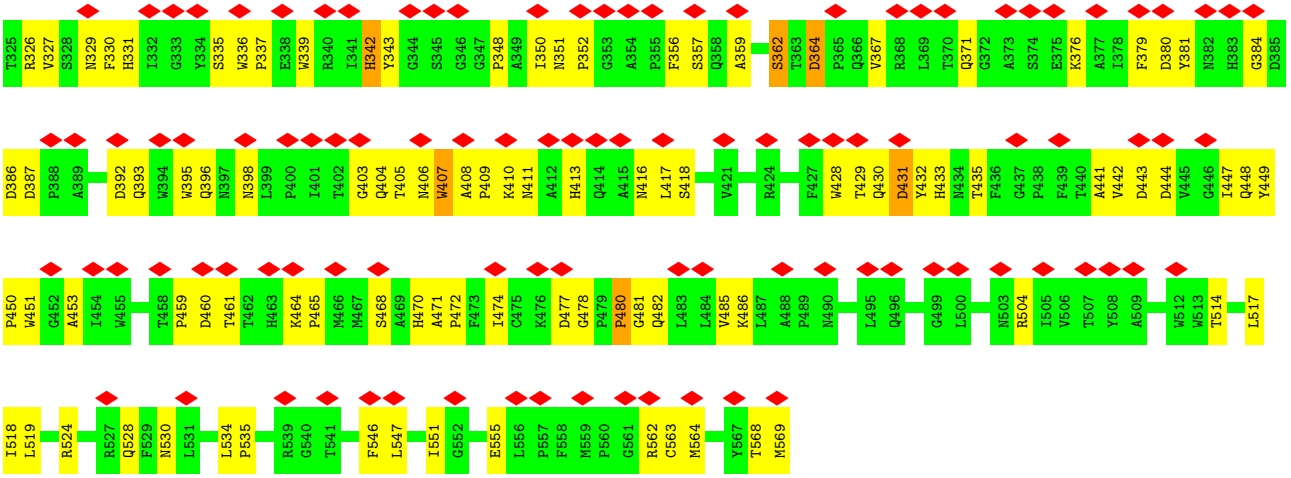
Chain 1:



• Molecule 1: VP2

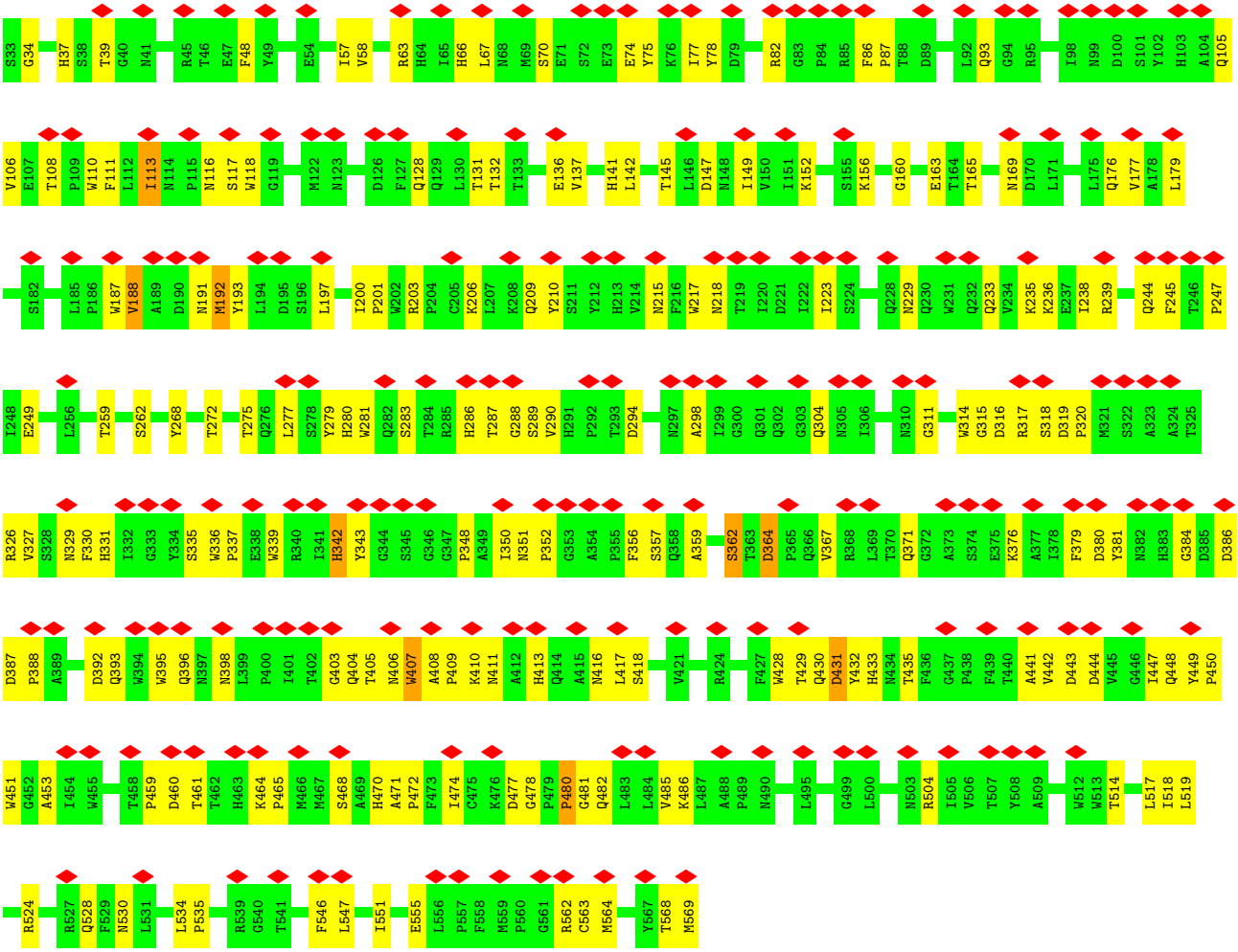
Chain 2:





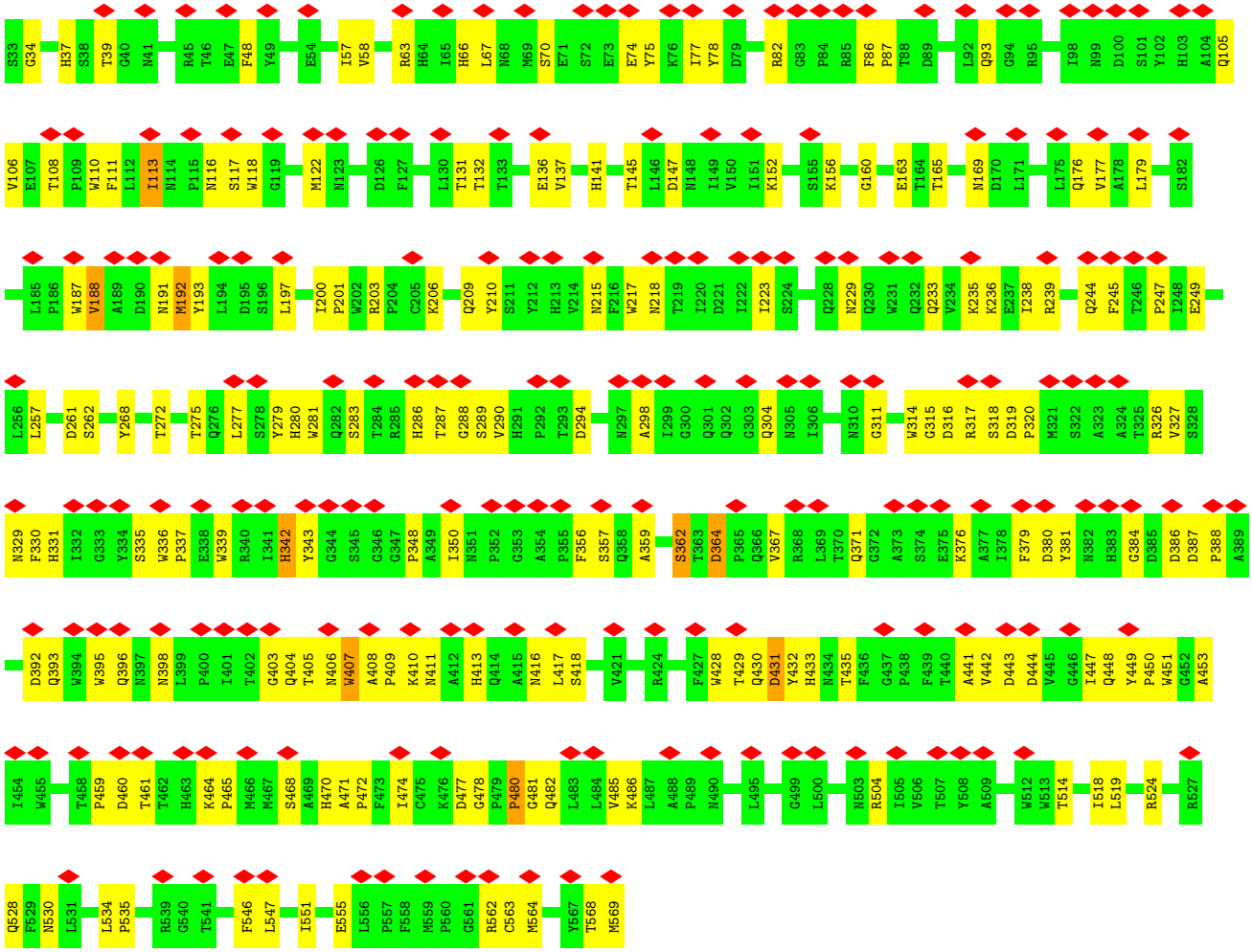
• Molecule 1: VP2

Chain 3:



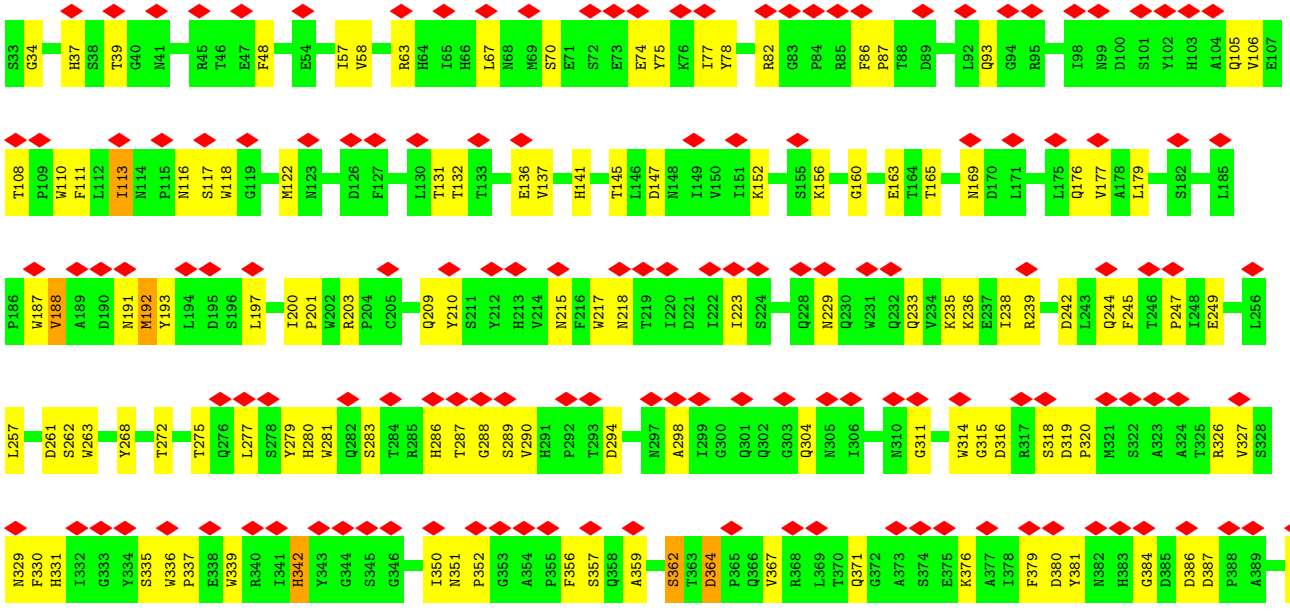
• Molecule 1: VP2

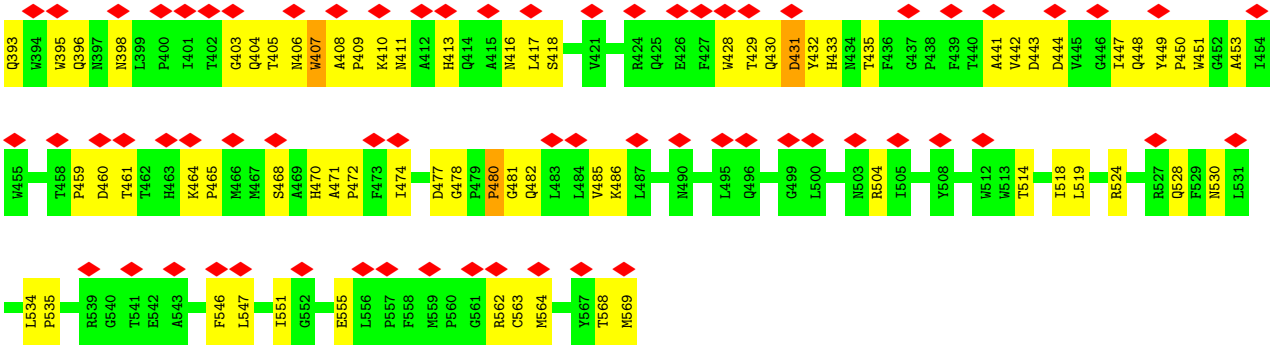
Chain 4:



• Molecule 1: VP2

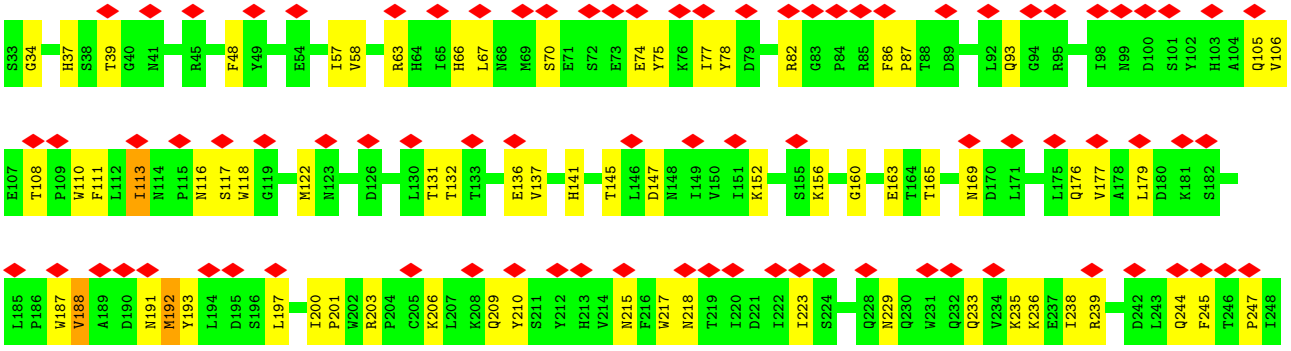
Chain 5:

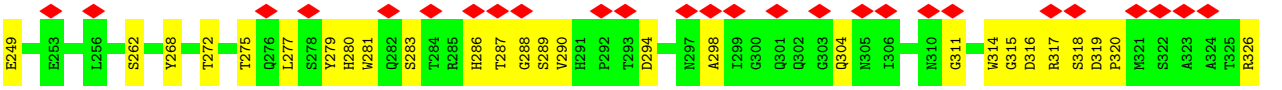


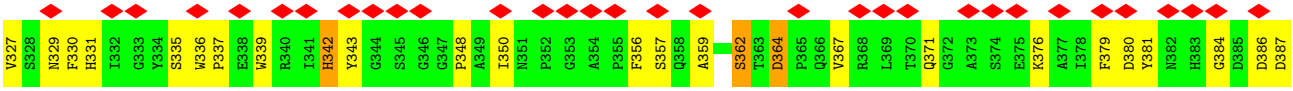


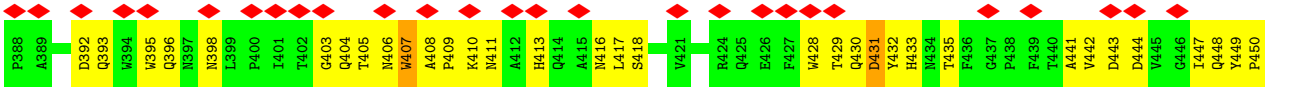
• Molecule 1: VP2

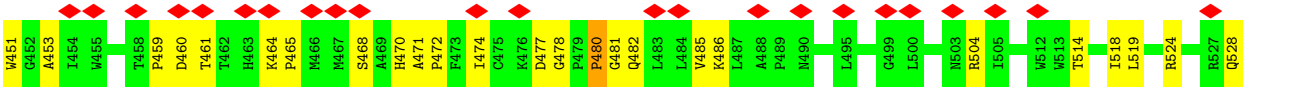
Chain 6:

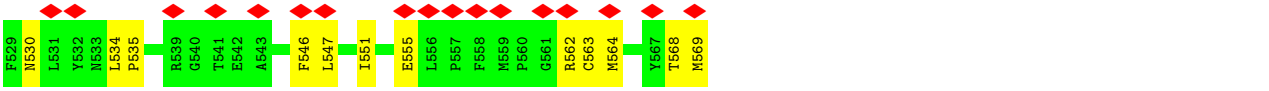


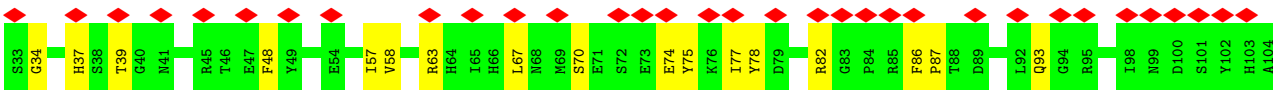






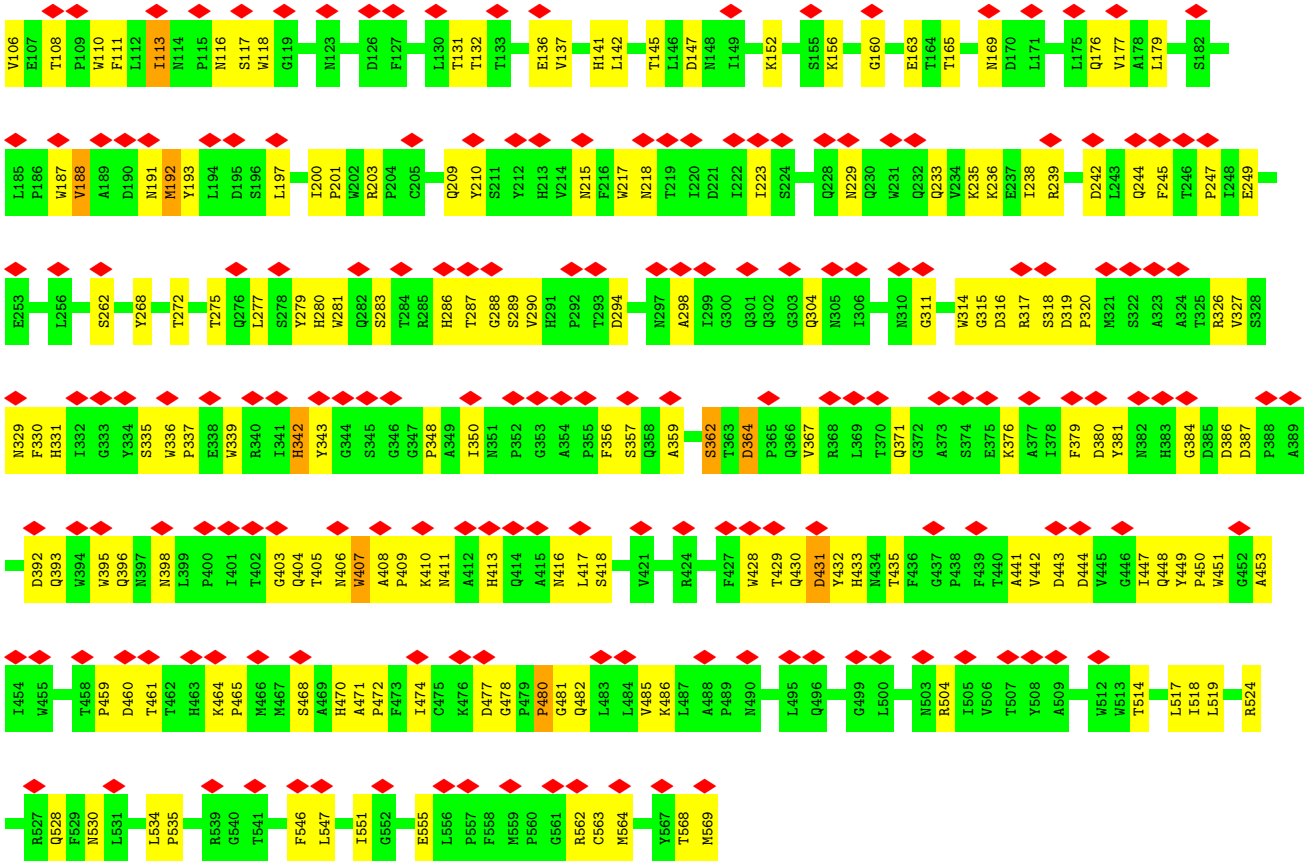






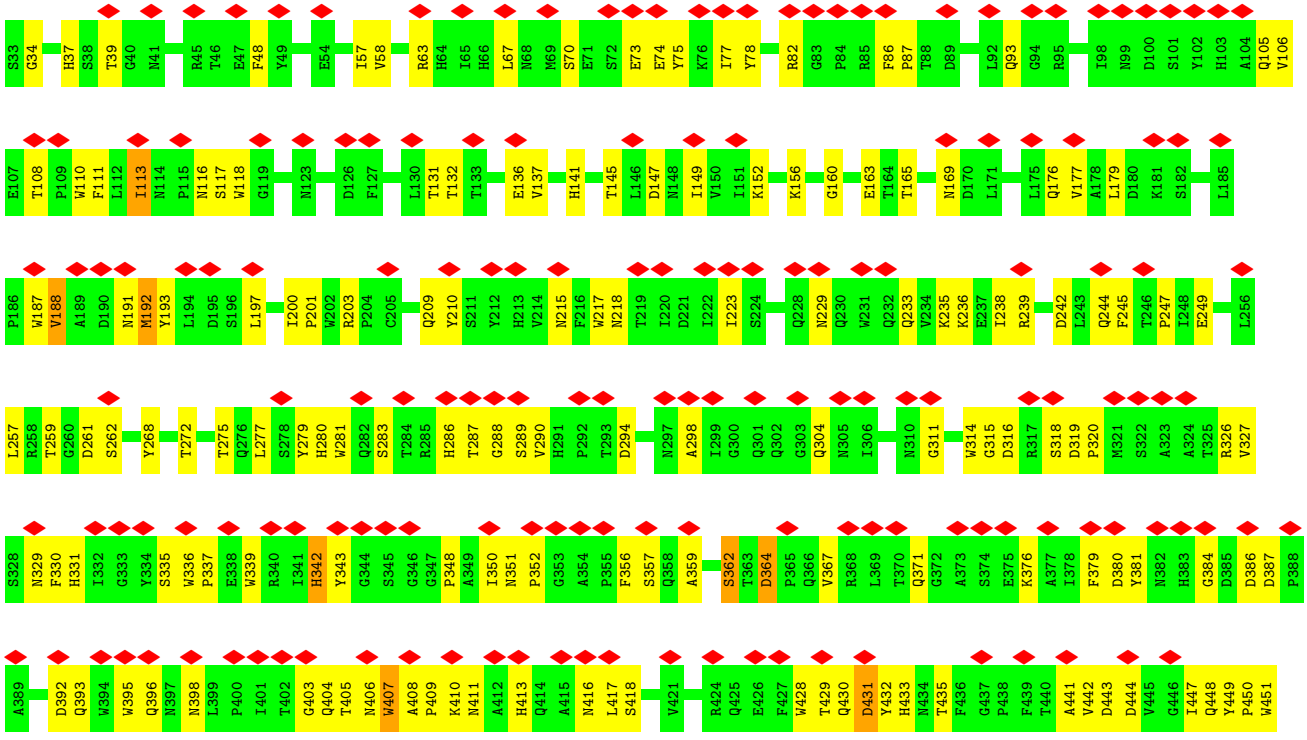
• Molecule 1: VP2

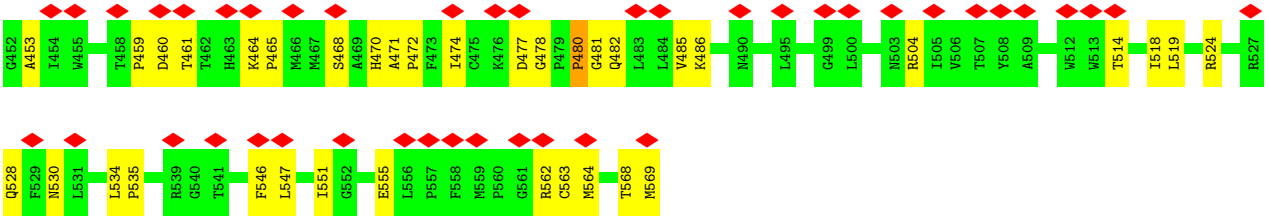
Chain a:



- Molecule 1: VP2

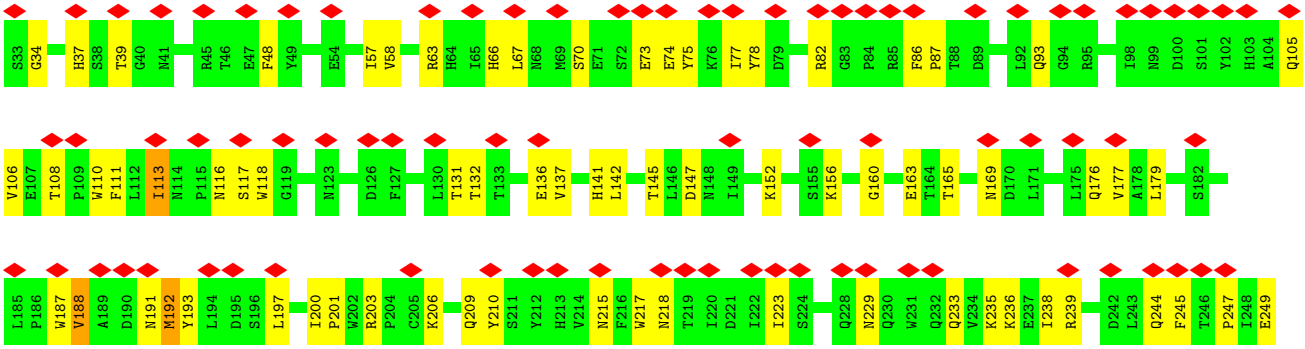
Chain b:

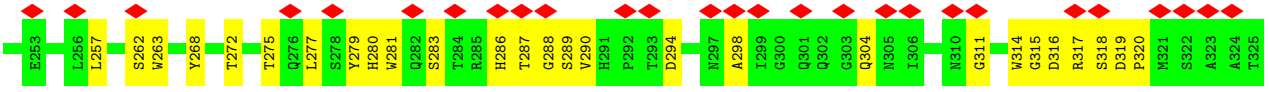


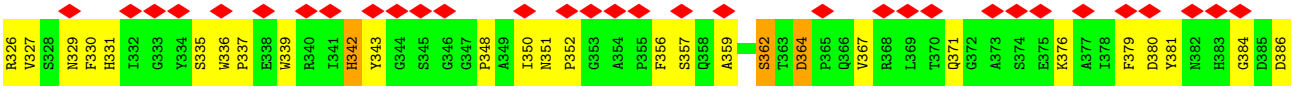


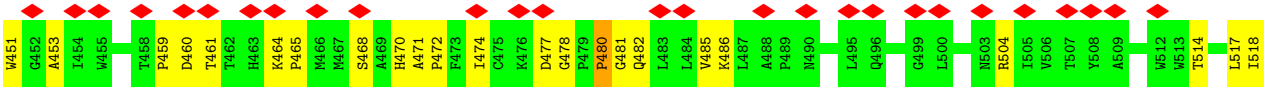
• Molecule 1: VP2

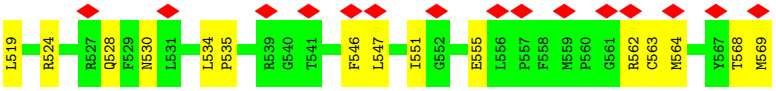
Chain c:





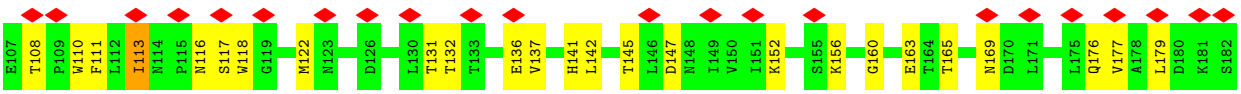


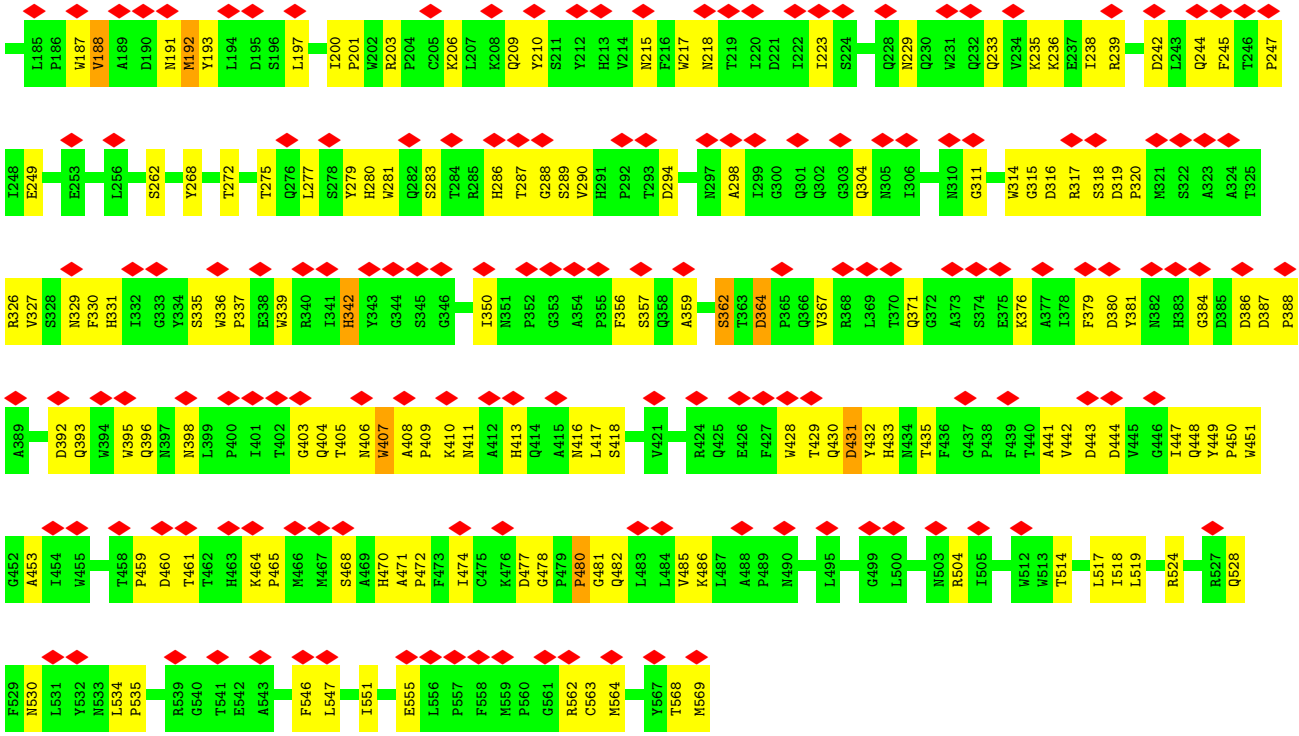




• Molecule 1: VP2

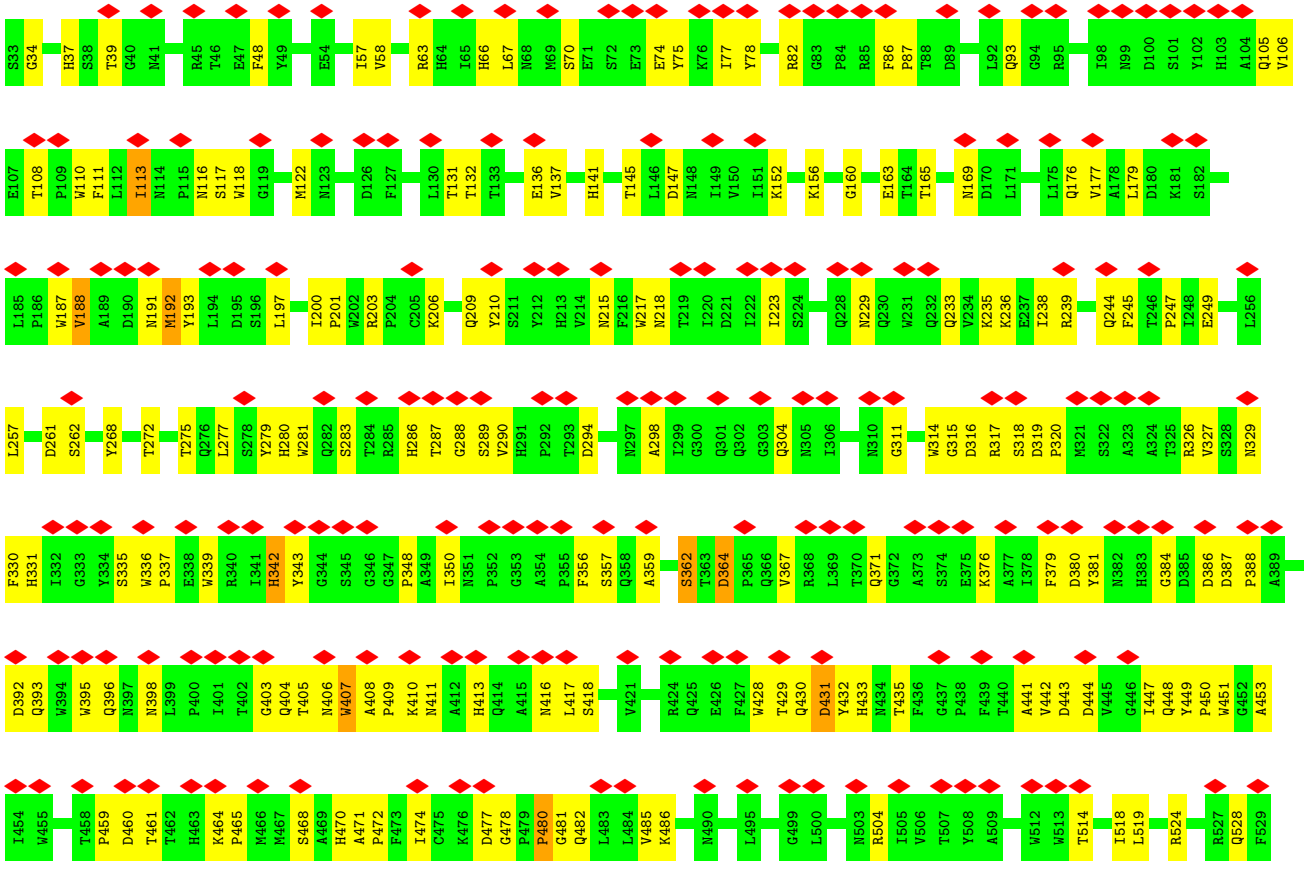
Chain d:

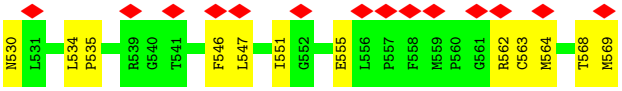




• Molecule 1: VP2

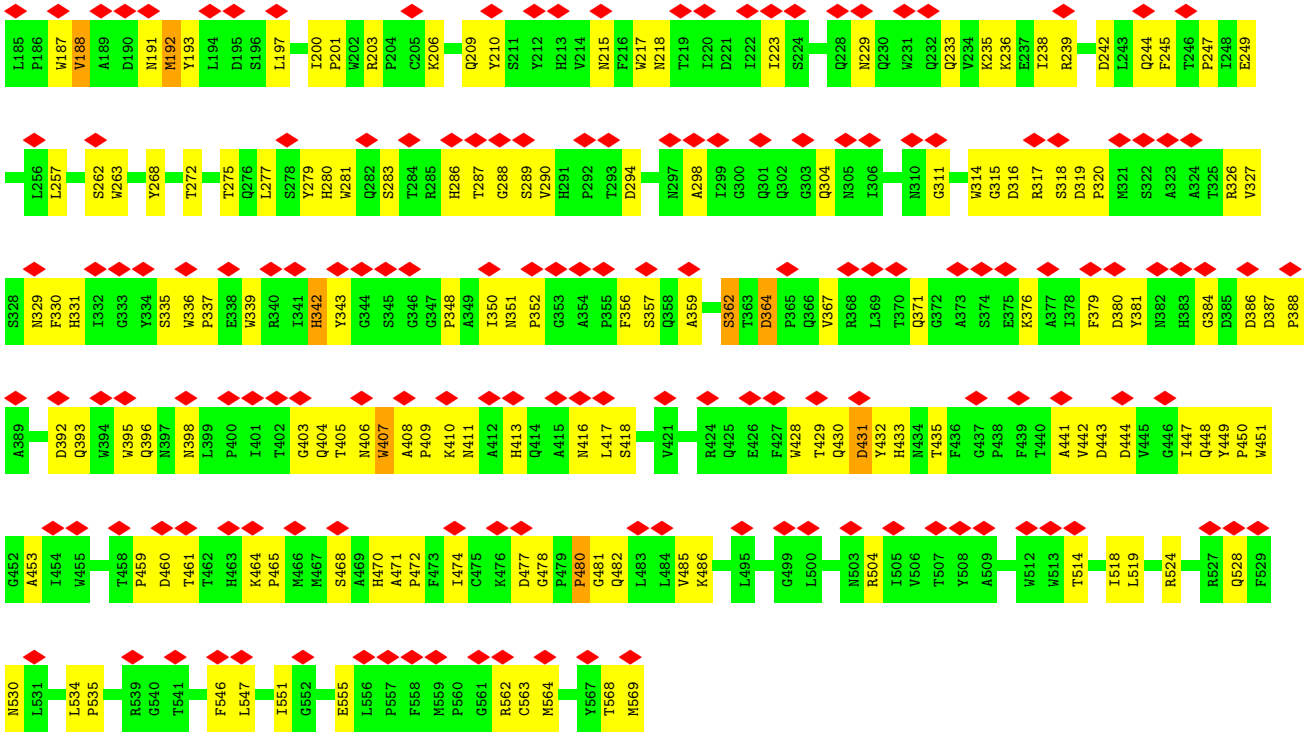
Chain e:





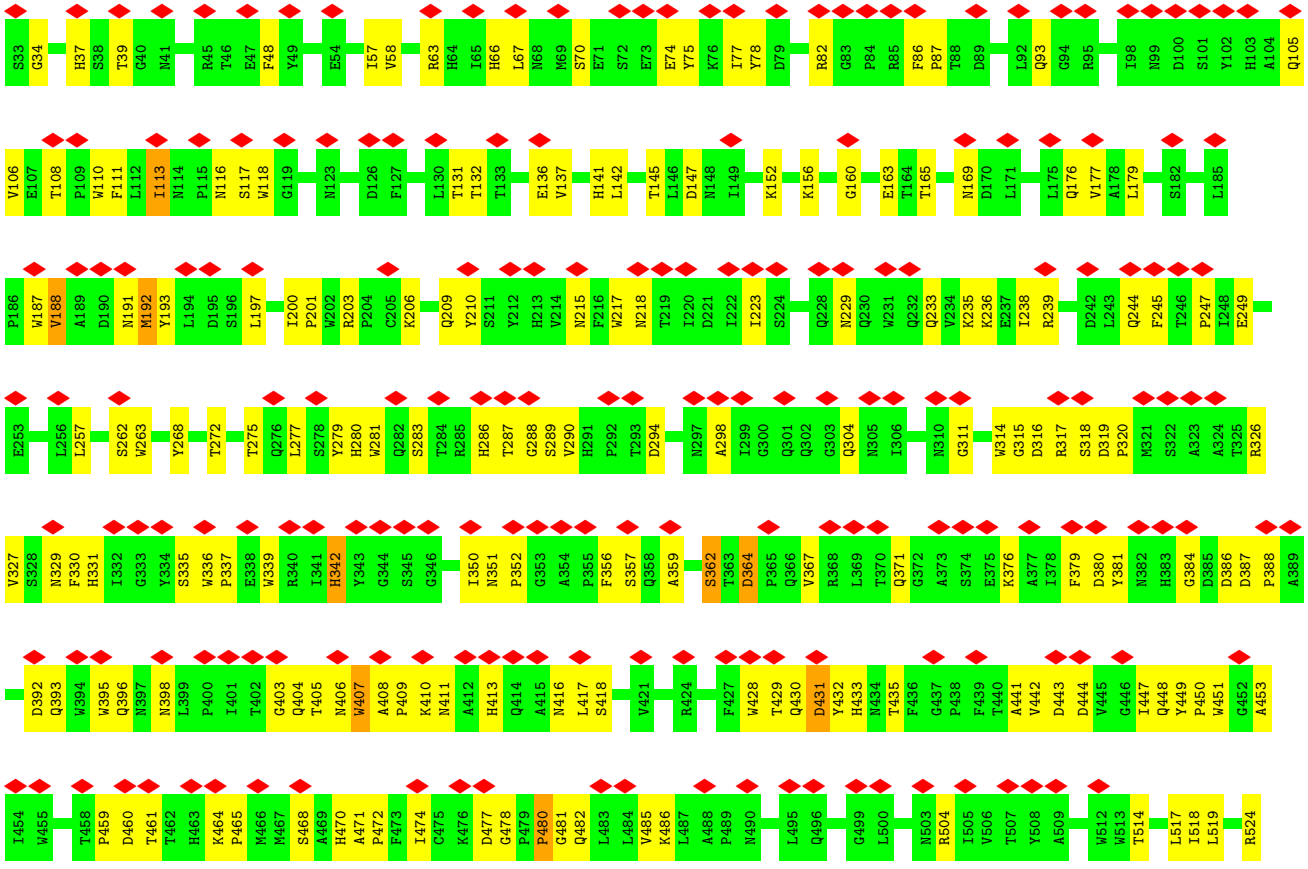
• Molecule 1: VP2

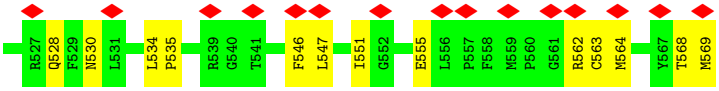
• Molecule 1: VP2



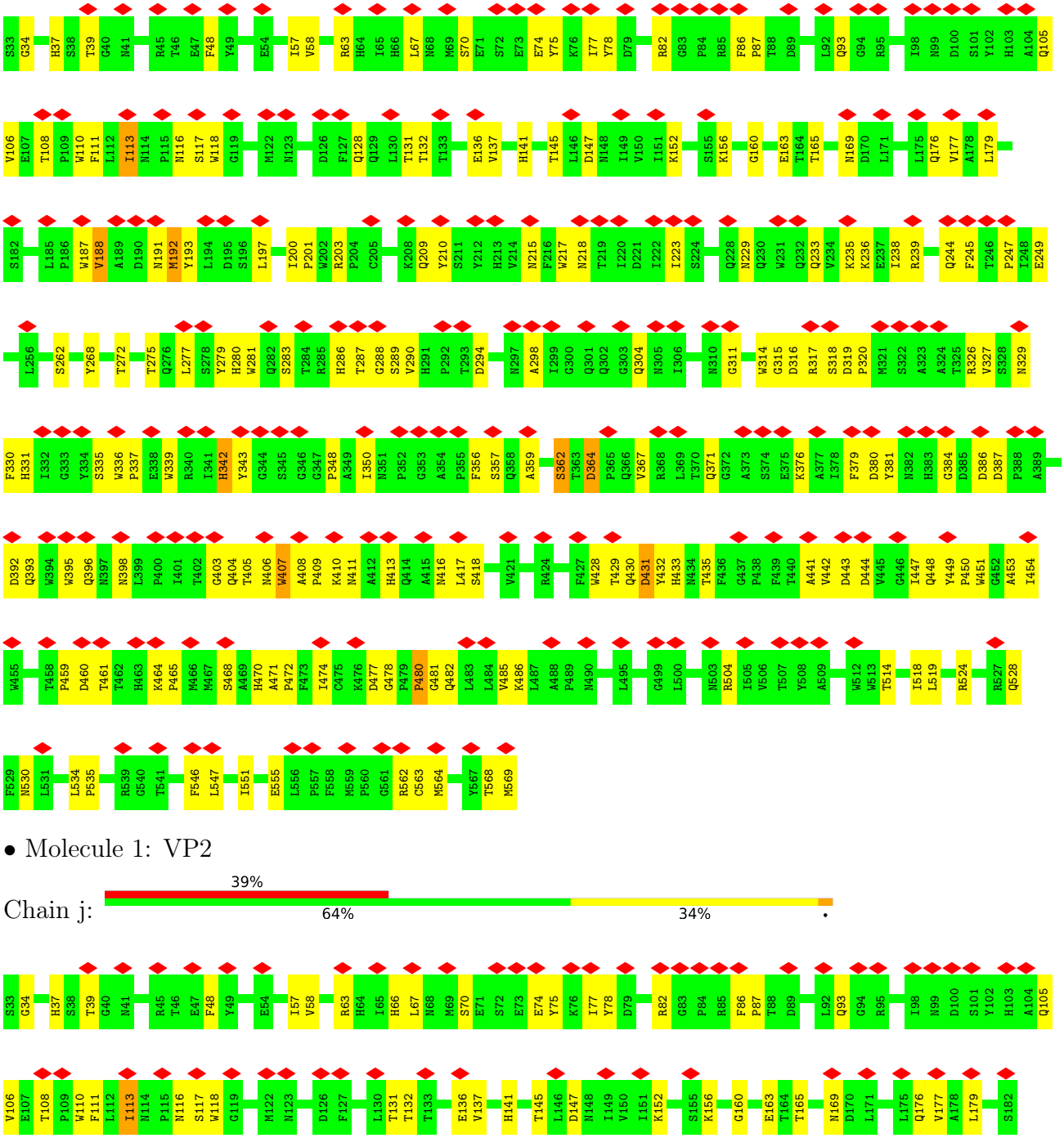
- Molecule 1: VP2

Chain h:

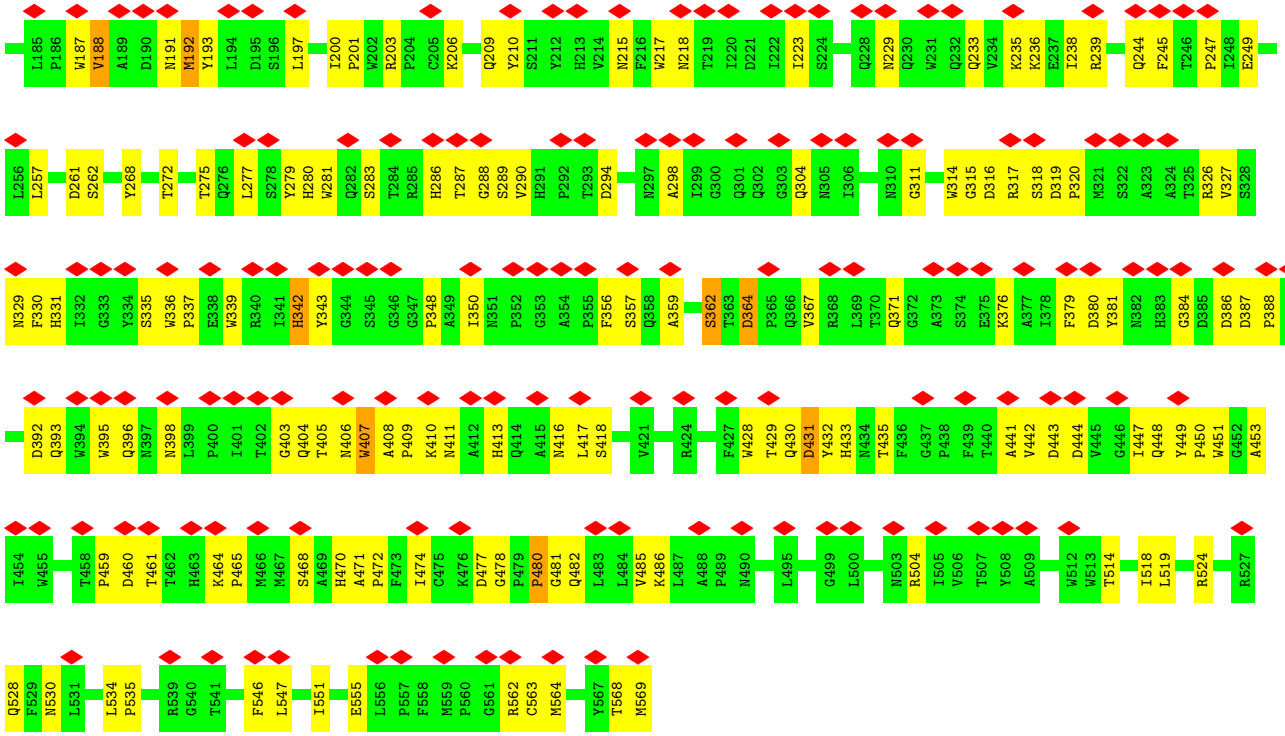




• Molecule 1: VP2

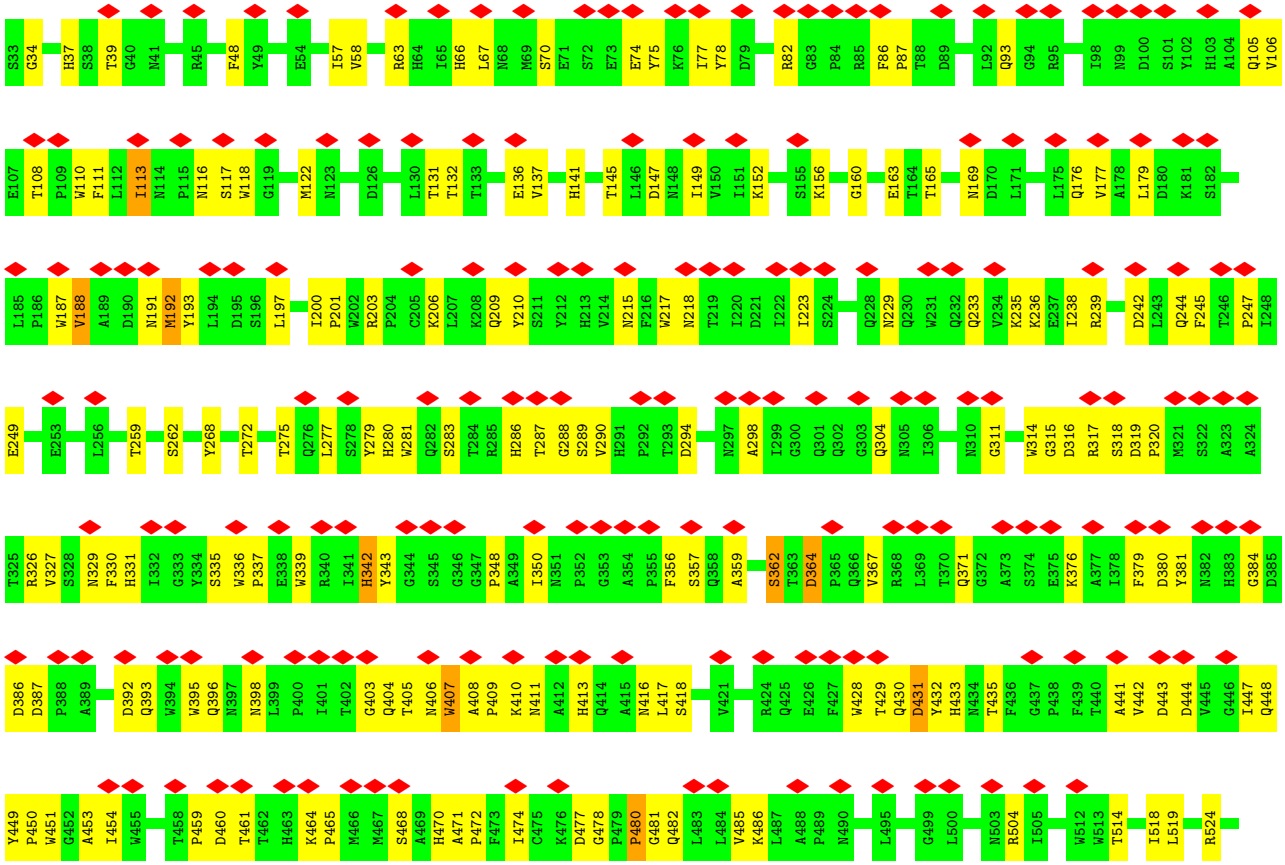


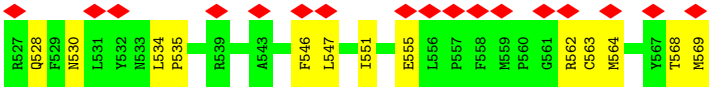
• Molecule 1: VP2



- Molecule 1: VP2

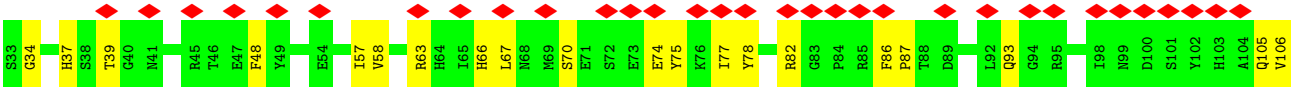
Chain k:

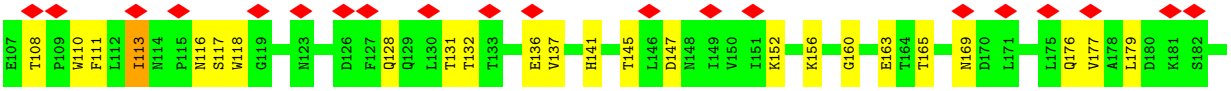


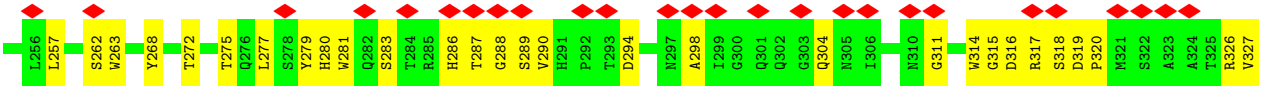


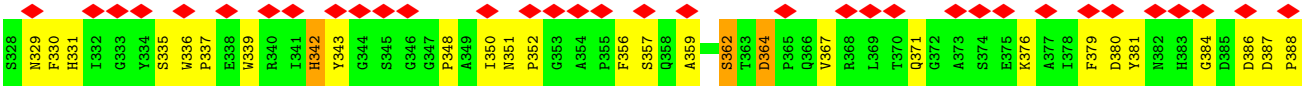
• Molecule 1: VP2

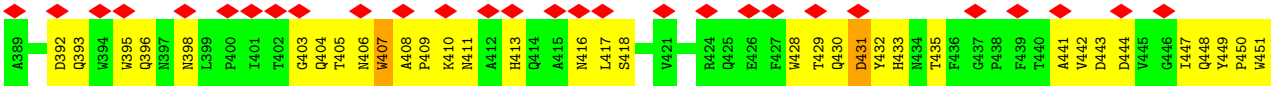
Chain l:

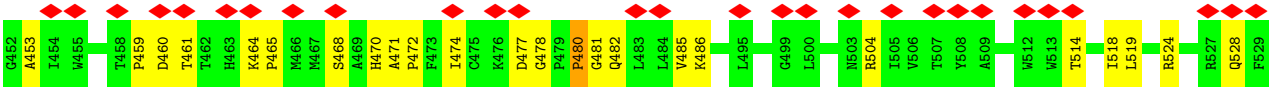


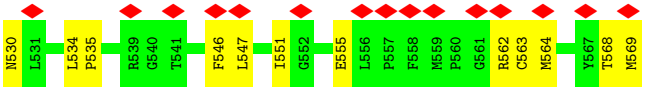






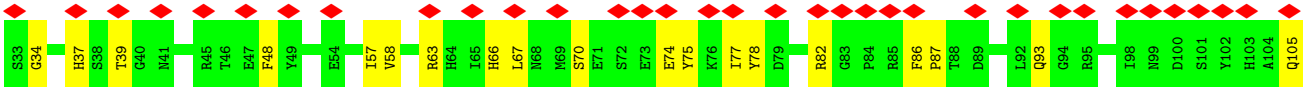


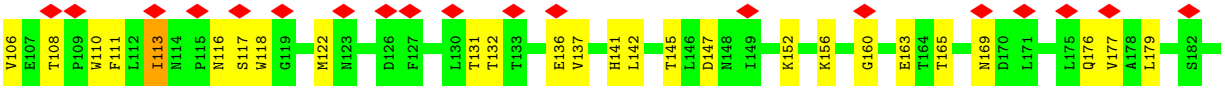


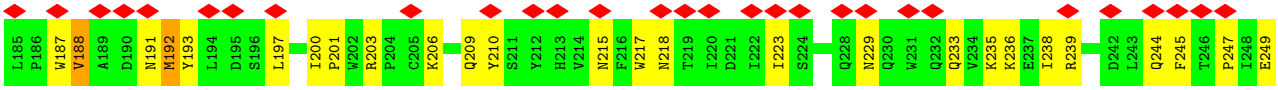


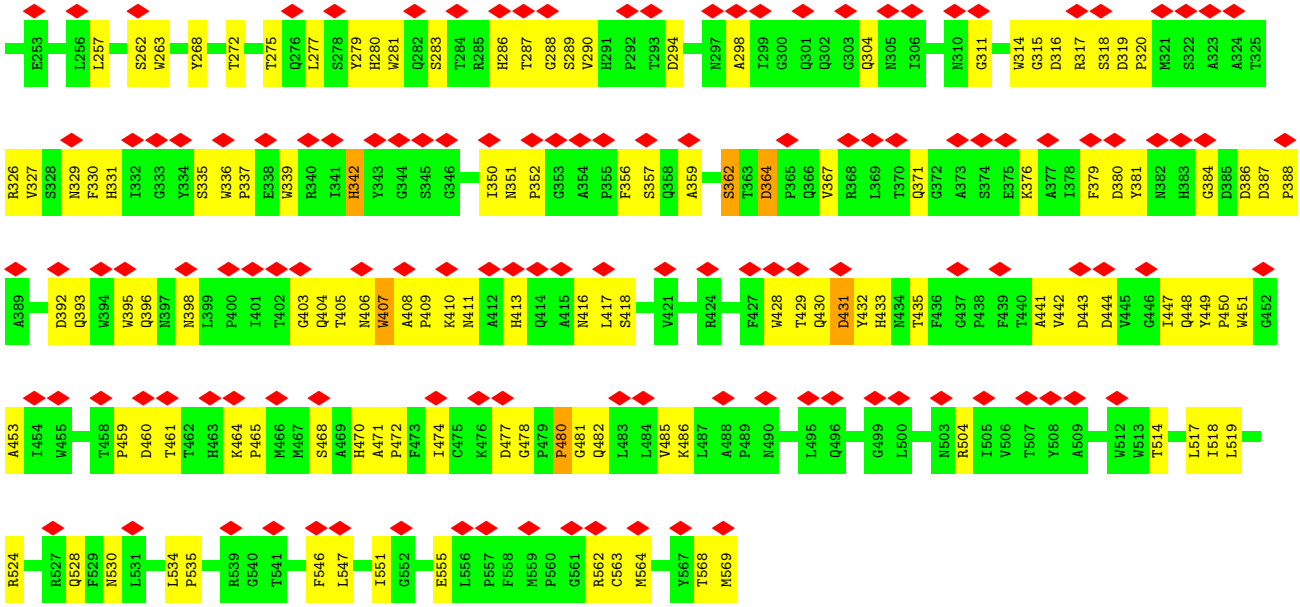
• Molecule 1: VP2

Chain m:



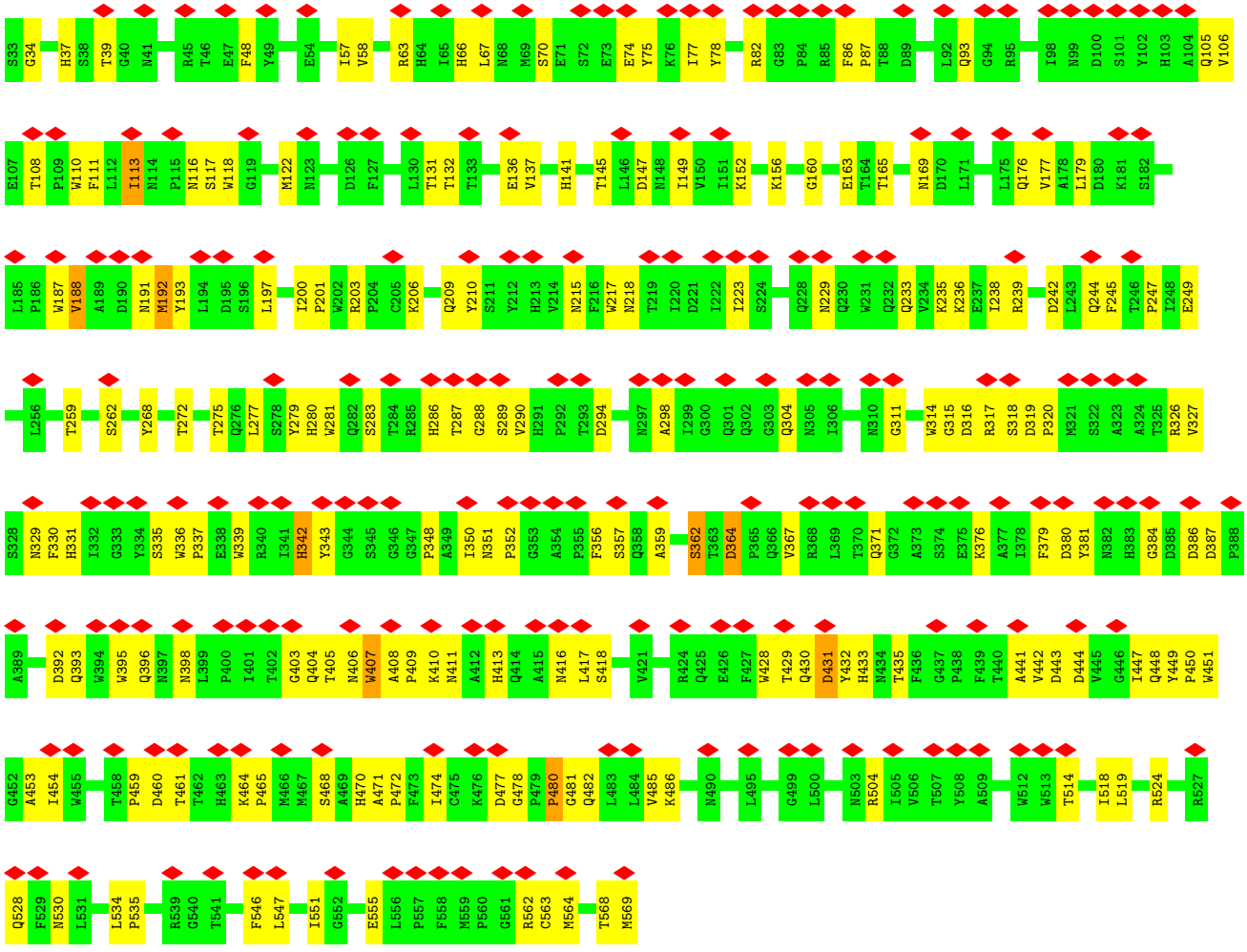






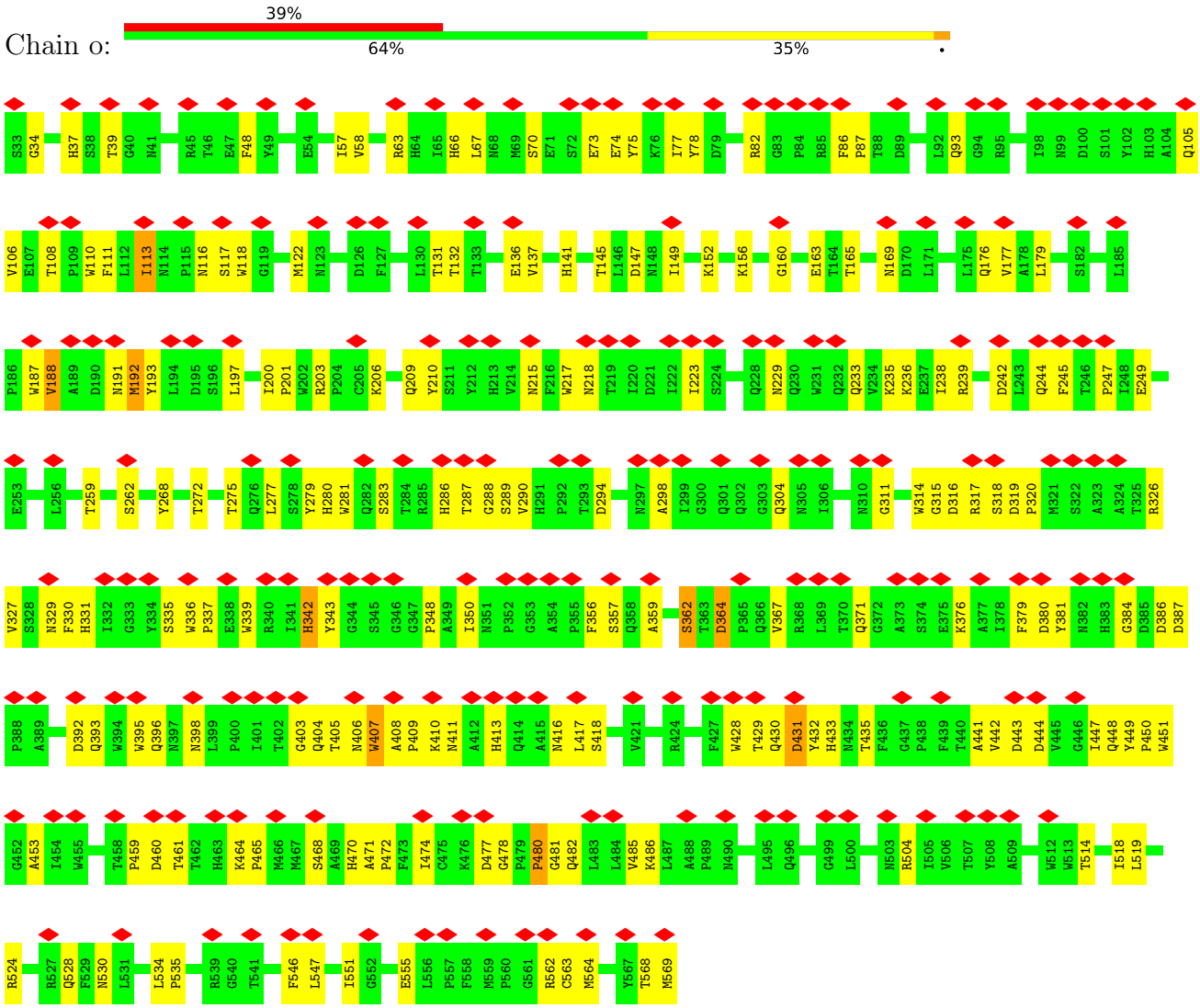
• Molecule 1: VP2

Chain n:



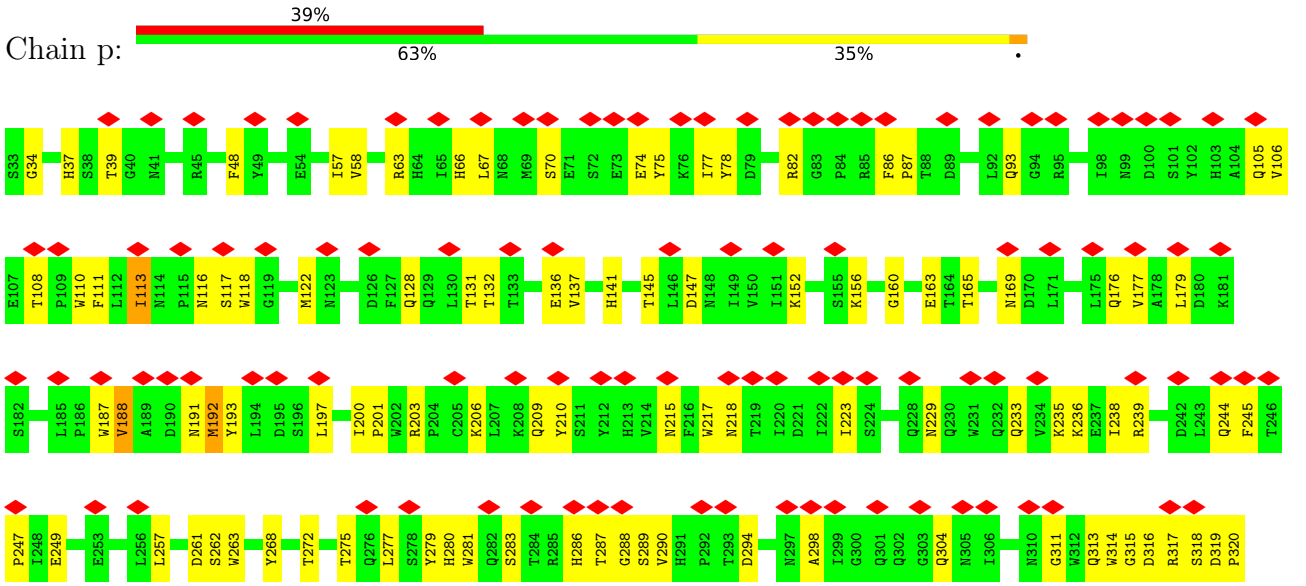
• Molecule 1: VP2

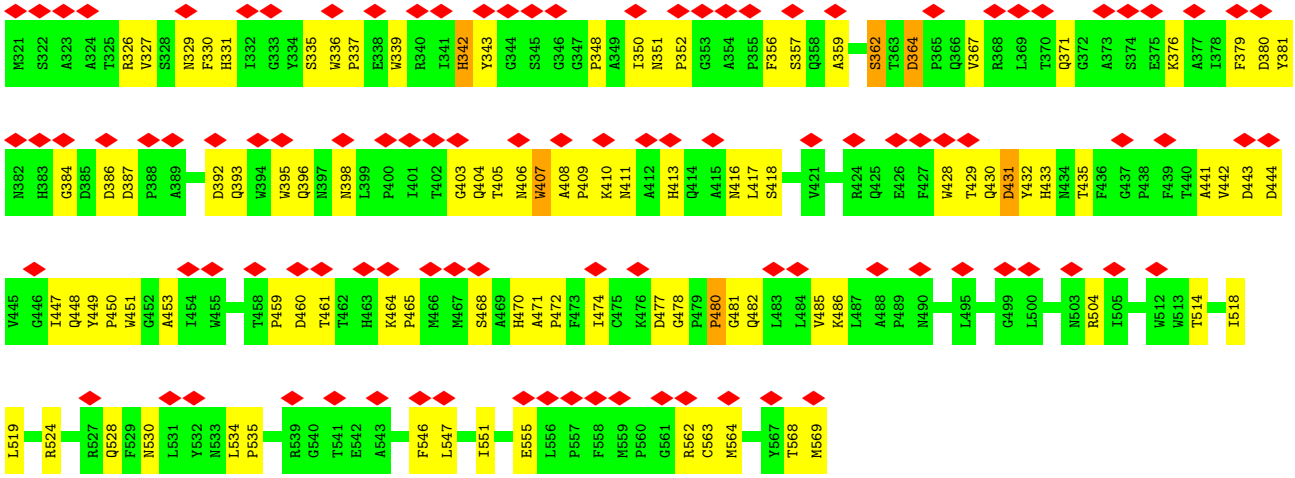
Chain o:



• Molecule 1: VP2

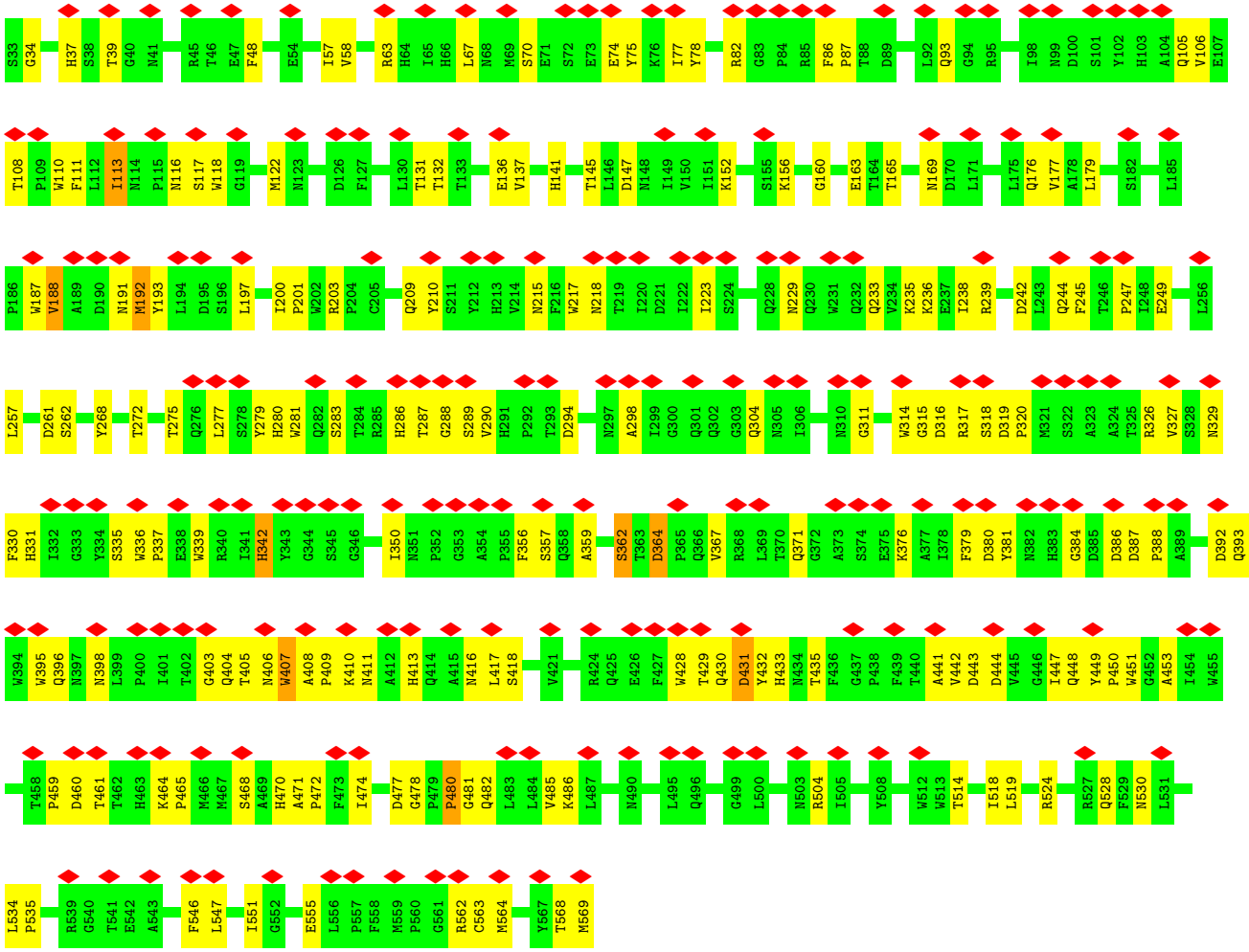
Chain p:





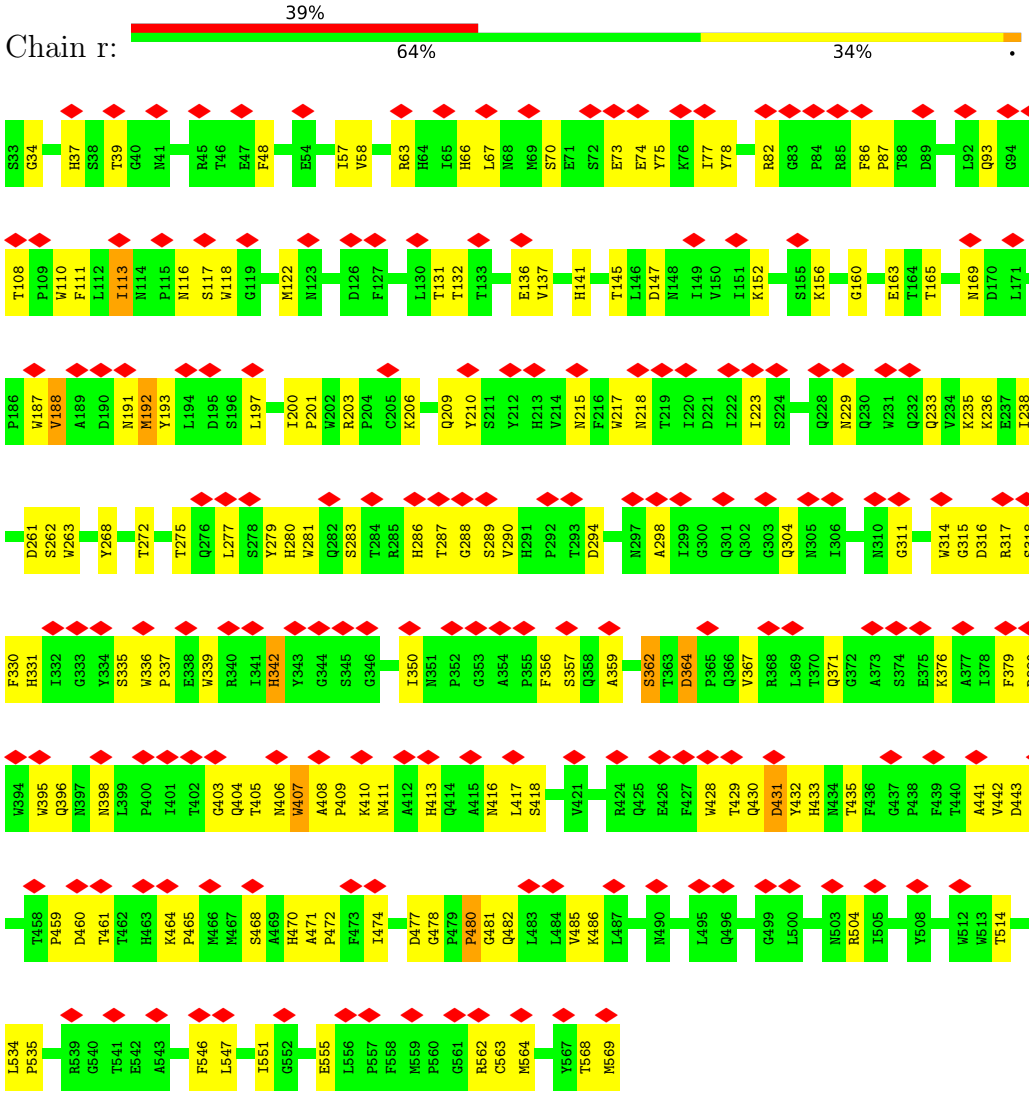
• Molecule 1: VP2

Chain q:



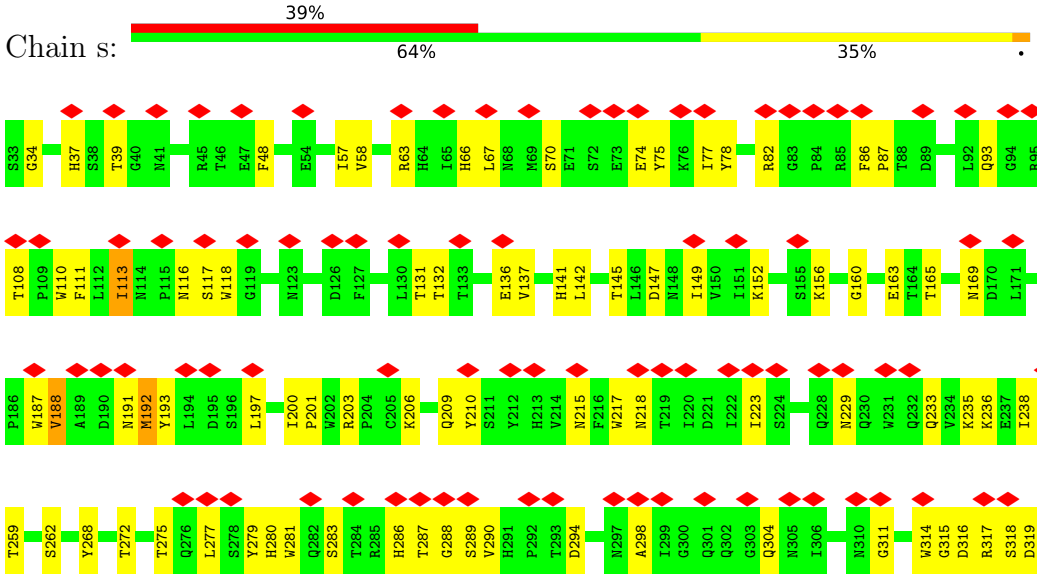
• Molecule 1: VP2

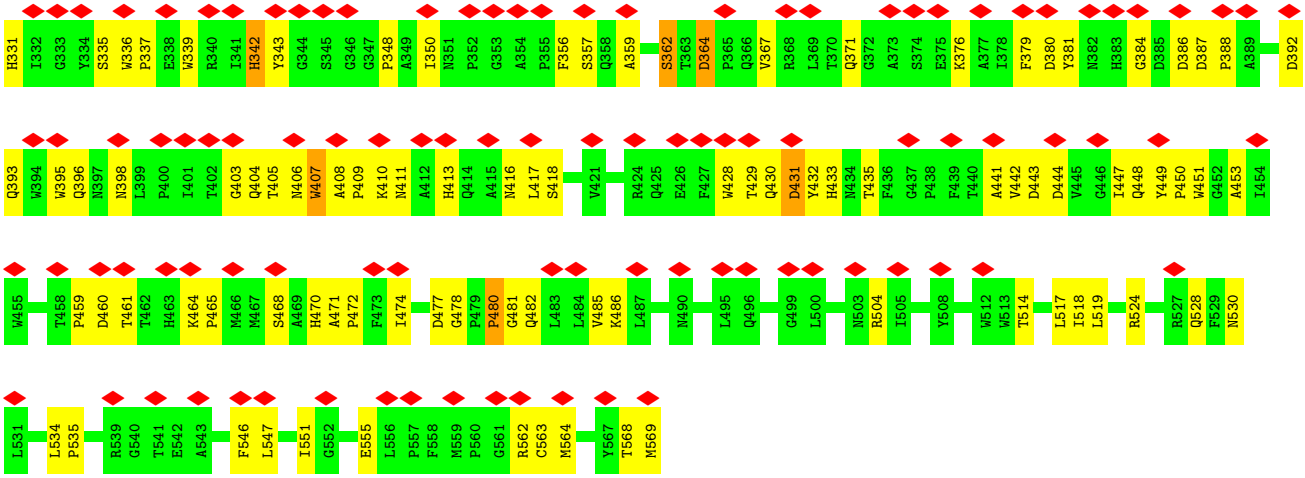
Chain r:



• Molecule 1: VP2

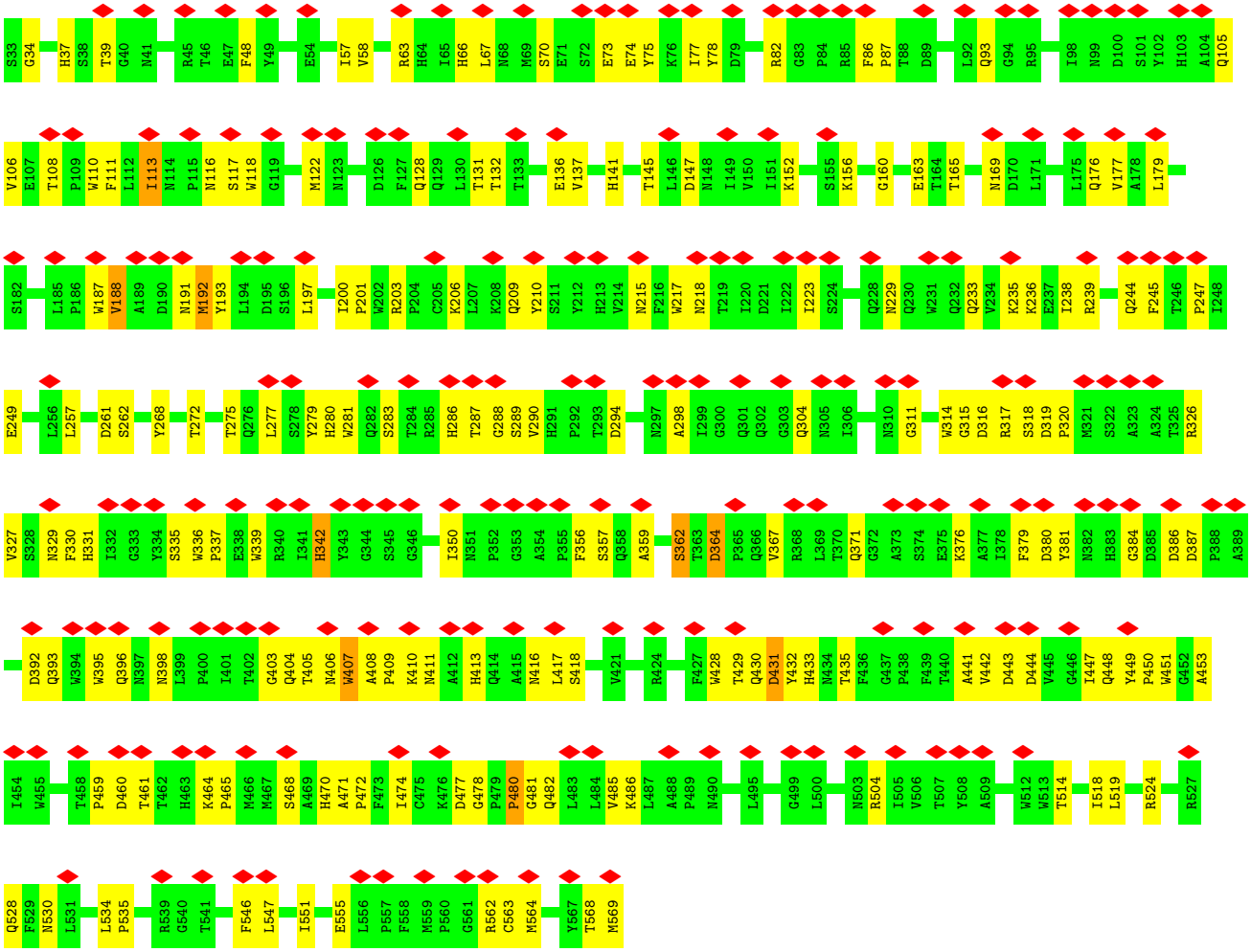
Chain s:





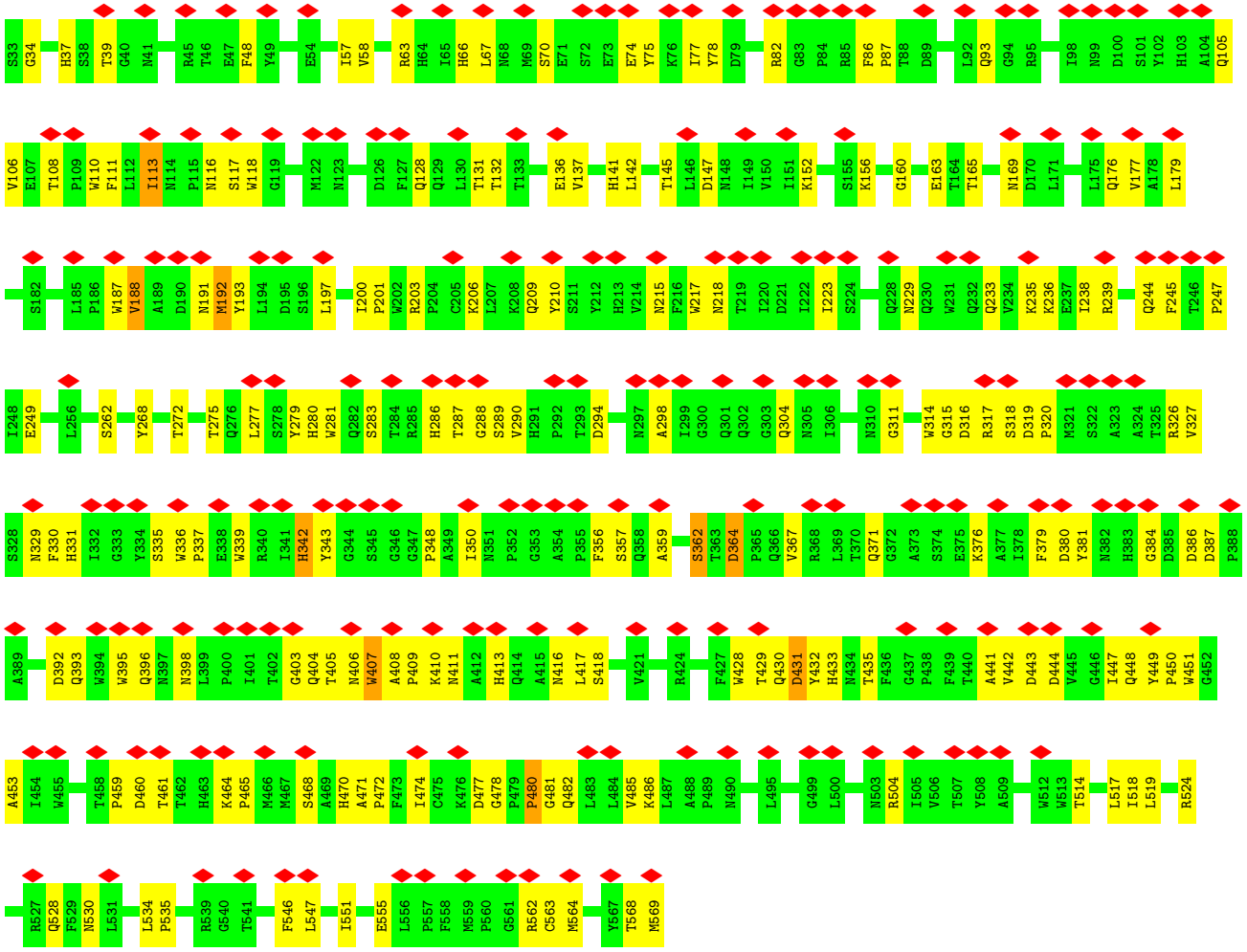
• Molecule 1: VP2

Chain t:



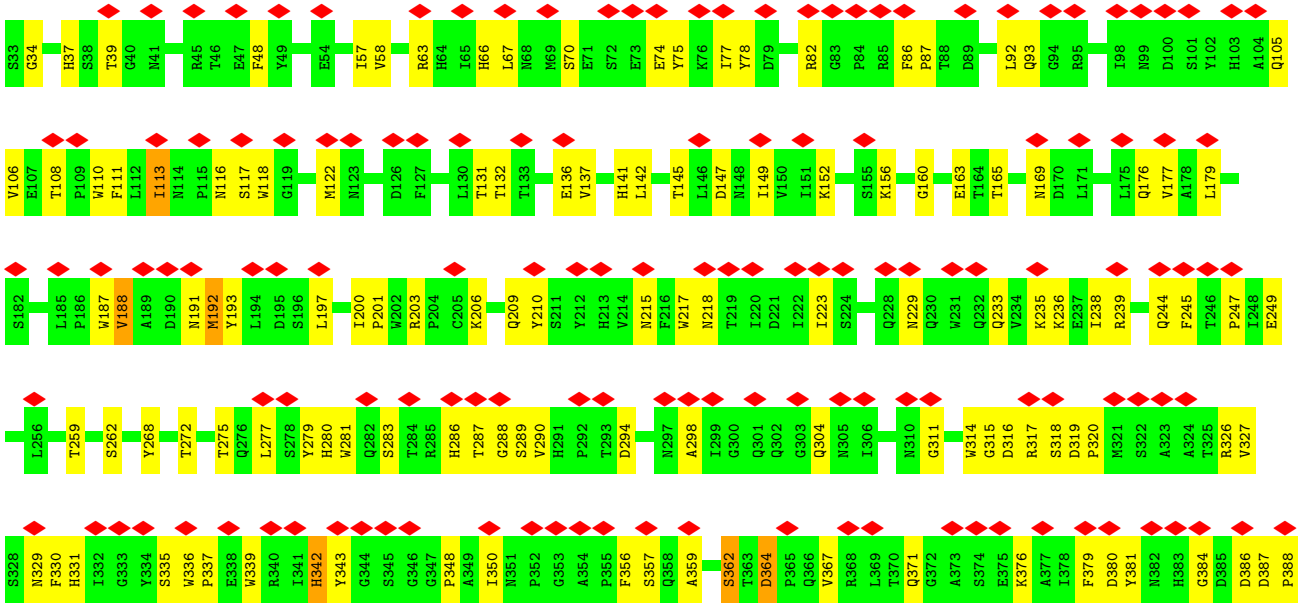
• Molecule 1: VP2

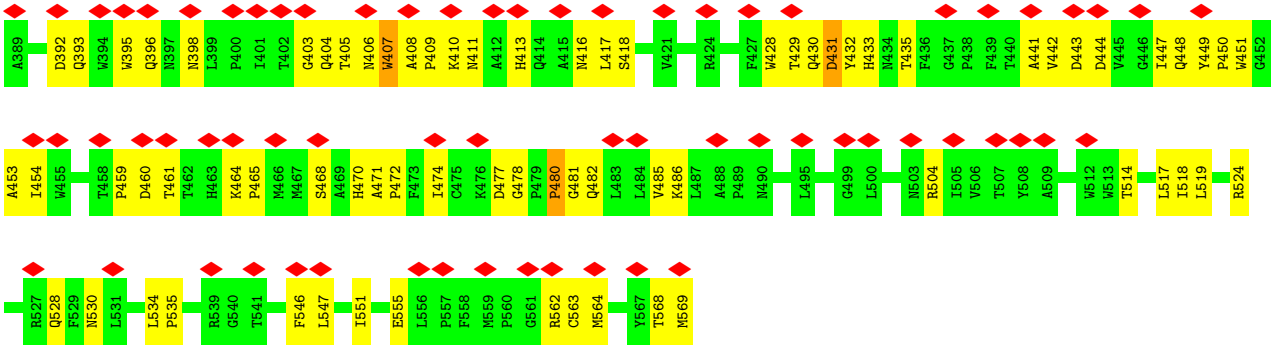
Chain u:



• Molecule 1: VP2

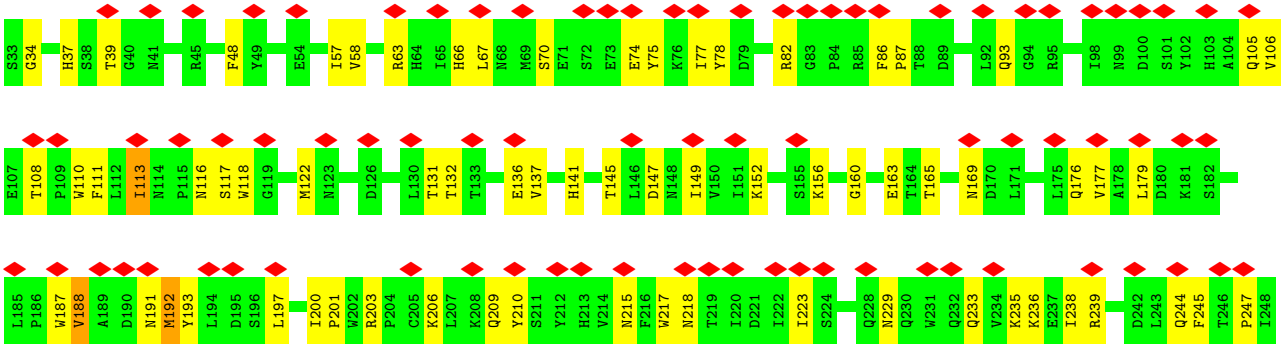
Chain v:





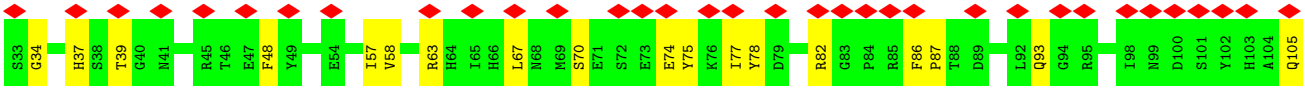
• Molecule 1: VP2

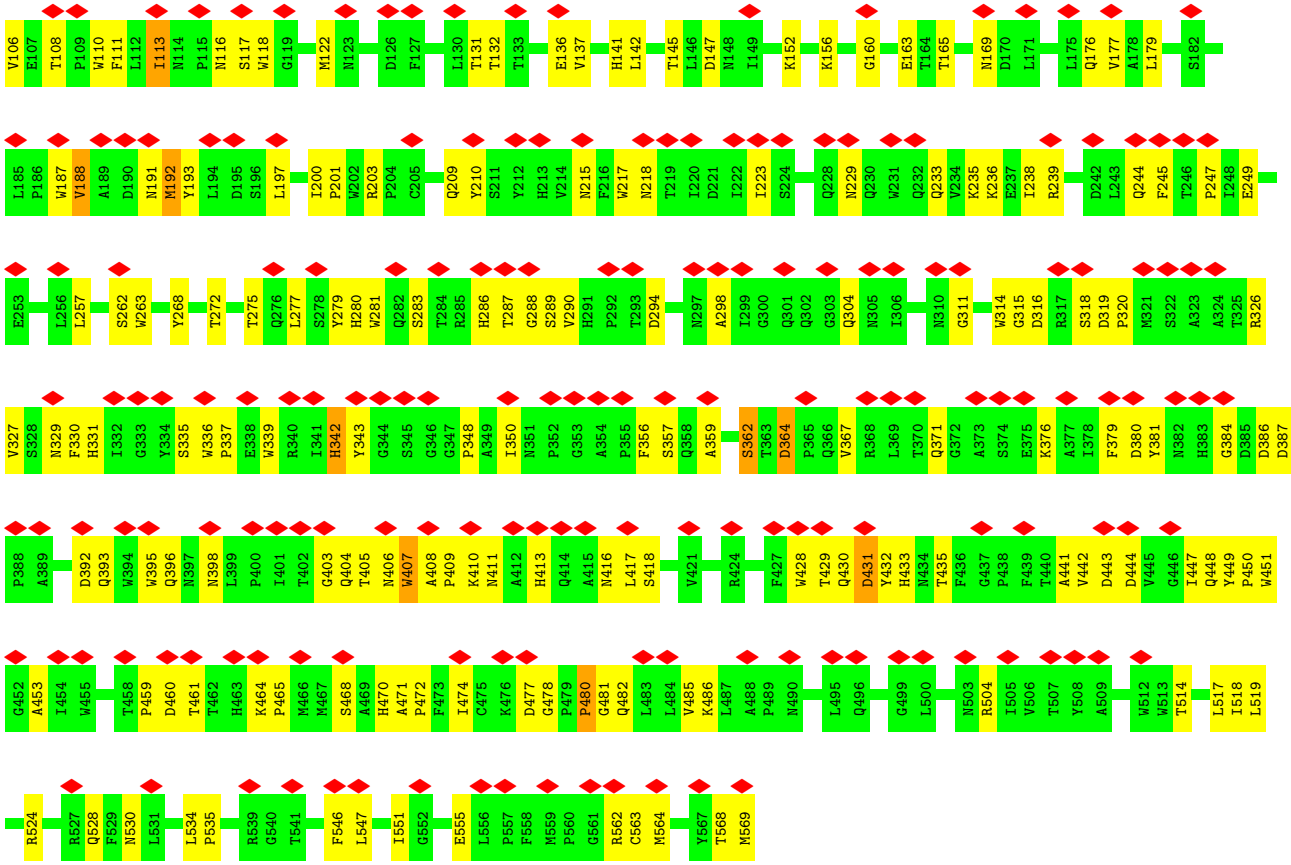
Chain w:



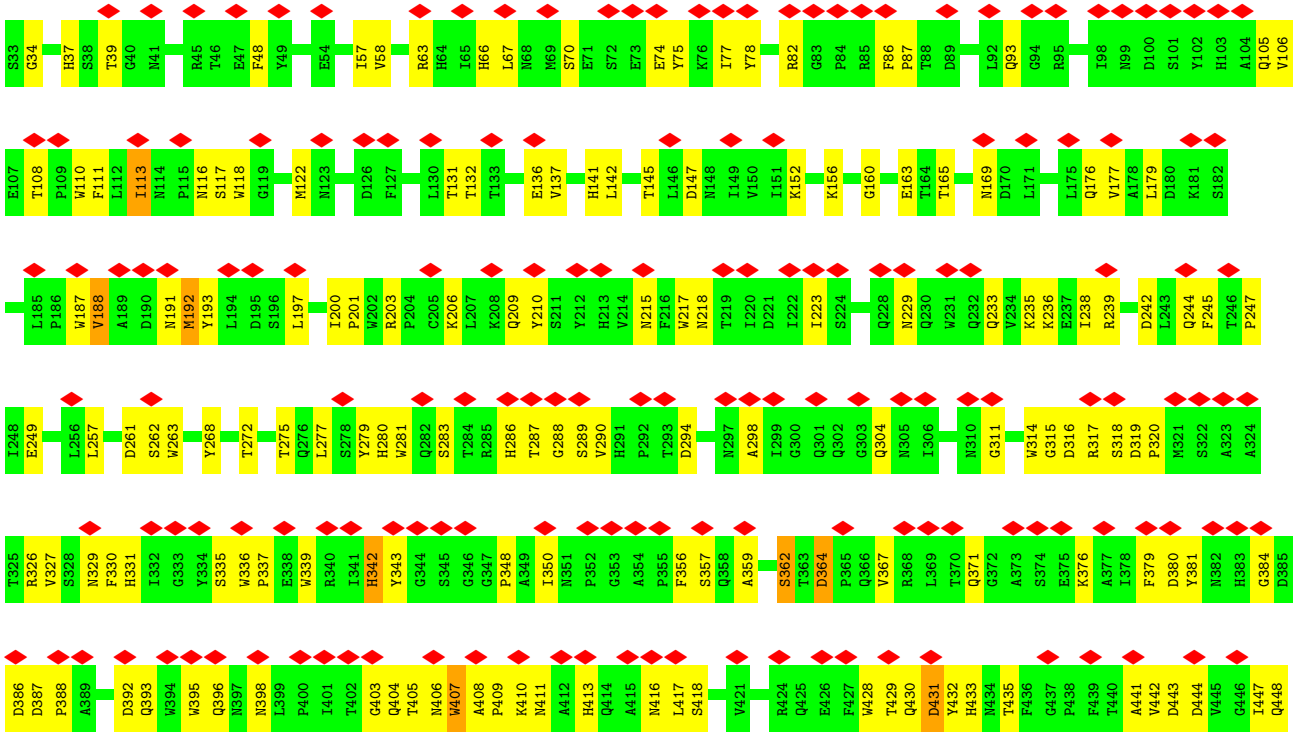
• Molecule 1: VP2

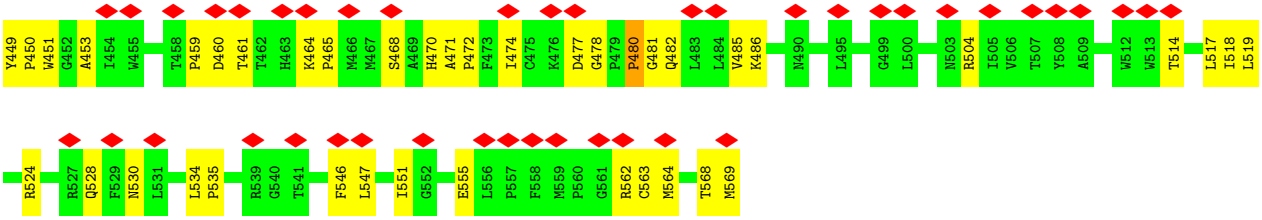
Chain x:





• Molecule 1: VP2



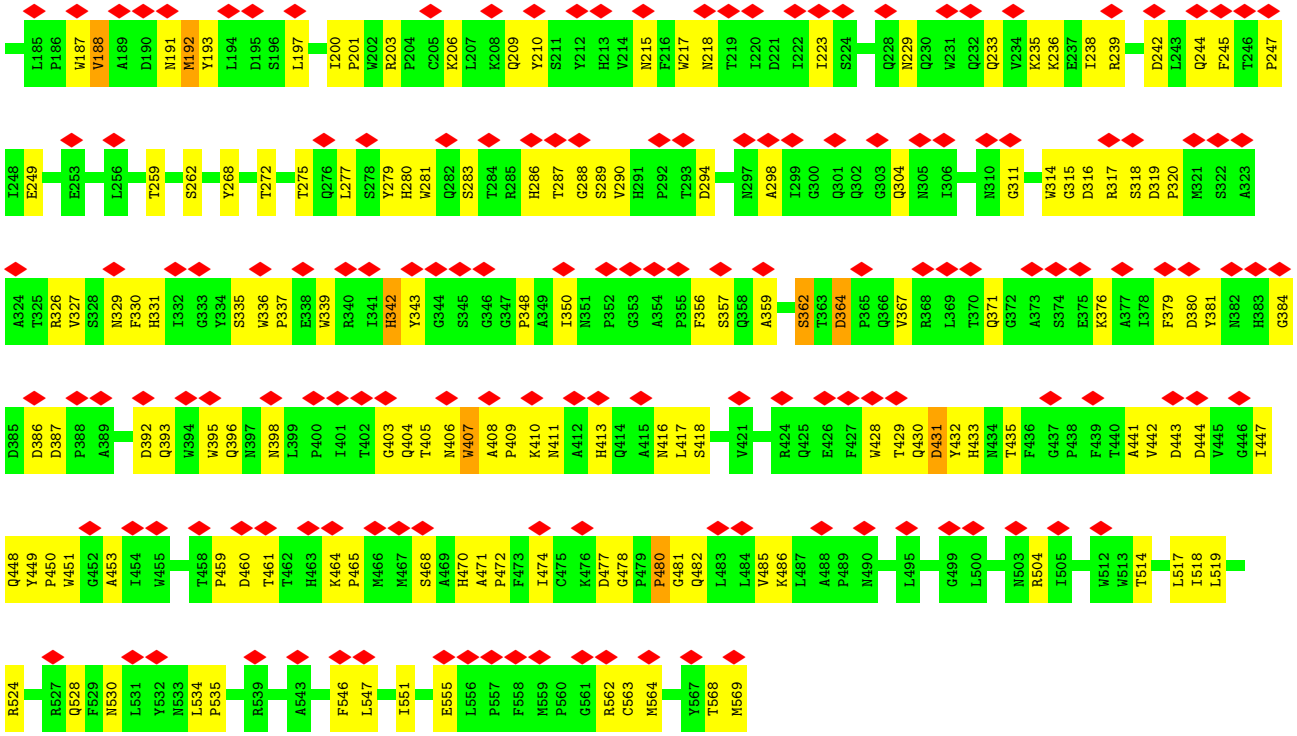


• Molecule 1: VP2

Chain z:

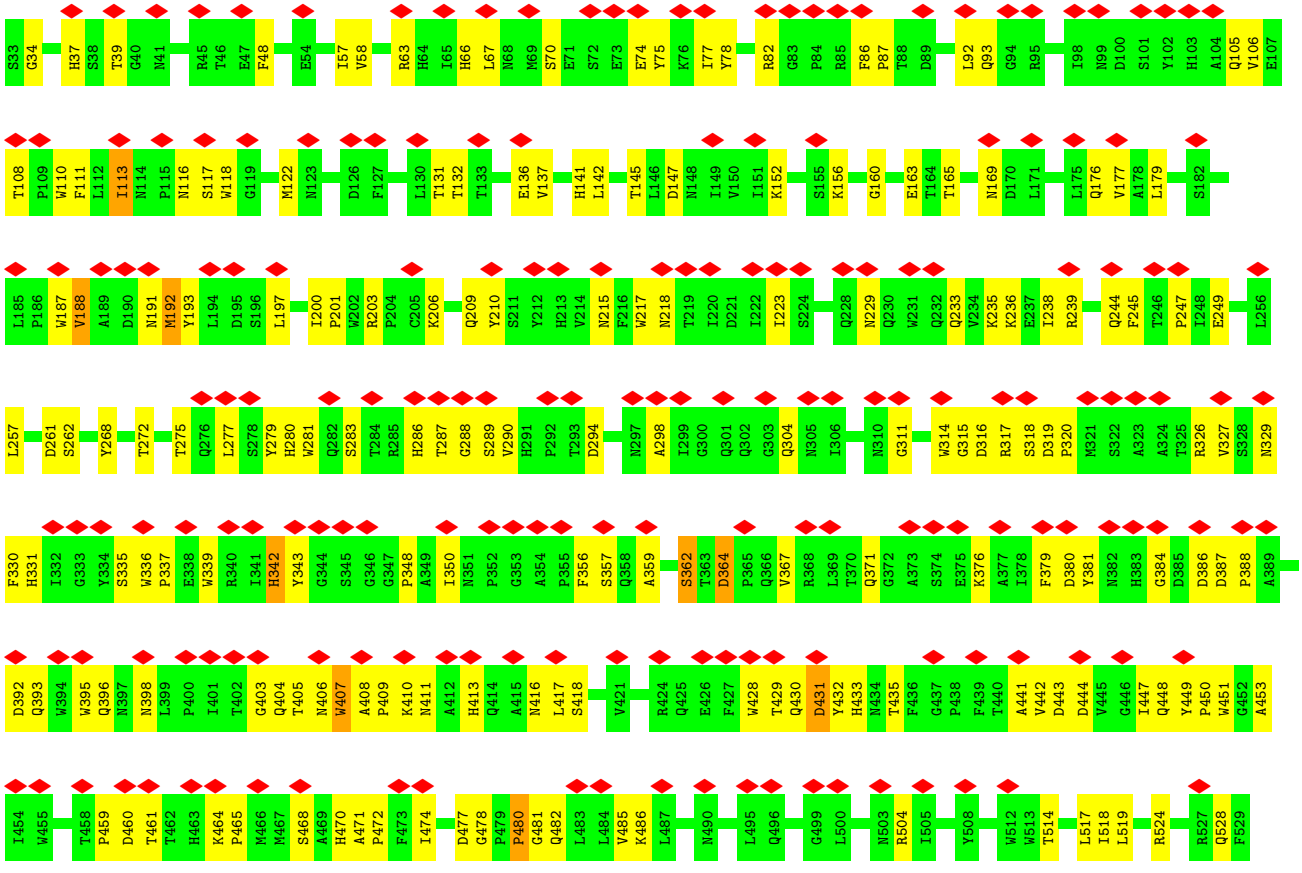
• Molecule 1: VP2

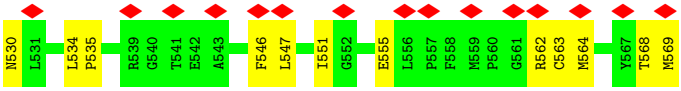
Chain 7:



• Molecule 1: VP2

Chain 0:




N530
L531
L534
P535
R539
G540
T541
E542
A543
F546
L547
I551
G552
E555
L556
P557
F558
M559
P560
G561
R562
C563
M564
Y567
T568
M569

4 Experimental information (i)

Property	Value	Source
EM reconstruction method	SINGLE PARTICLE	Depositor
Imposed symmetry	POINT, Not provided	
Number of particles used	29596	Depositor
Resolution determination method	FSC 0.143 CUT-OFF	Depositor
CTF correction method	PHASE FLIPPING AND AMPLITUDE CORRECTION	Depositor
Microscope	FEI TITAN KRIOS	Depositor
Voltage (kV)	300	Depositor
Electron dose ($e^-/Å^2$)	60	Depositor
Minimum defocus (nm)	Not provided	
Maximum defocus (nm)	Not provided	
Magnification	Not provided	
Image detector	GATAN K2 SUMMIT (4k x 4k)	Depositor
Maximum map value	17.145	Depositor
Minimum map value	-8.919	Depositor
Average map value	0.000	Depositor
Map value standard deviation	1.000	Depositor
Recommended contour level	1	Depositor
Map size (Å)	439.77002, 439.77002, 439.77002	wwPDB
Map dimensions	411, 411, 411	wwPDB
Map angles (°)	90.0, 90.0, 90.0	wwPDB
Pixel spacing (Å)	1.07, 1.07, 1.07	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	0	0.45	0/4500	0.69	14/6156 (0.2%)
1	1	0.44	0/4500	0.69	14/6156 (0.2%)
1	2	0.45	0/4500	0.69	14/6156 (0.2%)
1	3	0.44	0/4500	0.69	14/6156 (0.2%)
1	4	0.44	0/4500	0.69	14/6156 (0.2%)
1	5	0.44	0/4500	0.69	14/6156 (0.2%)
1	6	0.45	0/4500	0.69	14/6156 (0.2%)
1	7	0.45	0/4500	0.69	14/6156 (0.2%)
1	A	0.44	0/4500	0.69	14/6156 (0.2%)
1	B	0.45	0/4500	0.69	14/6156 (0.2%)
1	C	0.44	0/4500	0.69	14/6156 (0.2%)
1	D	0.45	0/4500	0.69	14/6156 (0.2%)
1	E	0.44	0/4500	0.69	14/6156 (0.2%)
1	F	0.45	0/4500	0.69	14/6156 (0.2%)
1	G	0.44	0/4500	0.69	14/6156 (0.2%)
1	H	0.45	0/4500	0.69	14/6156 (0.2%)
1	I	0.44	0/4500	0.69	14/6156 (0.2%)
1	J	0.45	0/4500	0.69	14/6156 (0.2%)
1	K	0.45	0/4500	0.69	14/6156 (0.2%)
1	L	0.45	0/4500	0.69	14/6156 (0.2%)
1	M	0.45	0/4500	0.69	14/6156 (0.2%)
1	N	0.44	0/4500	0.69	14/6156 (0.2%)
1	O	0.45	0/4500	0.69	14/6156 (0.2%)
1	P	0.44	0/4500	0.69	14/6156 (0.2%)
1	Q	0.44	0/4500	0.69	14/6156 (0.2%)
1	R	0.45	0/4500	0.69	14/6156 (0.2%)
1	S	0.45	0/4500	0.69	14/6156 (0.2%)
1	T	0.44	0/4500	0.69	14/6156 (0.2%)
1	U	0.45	0/4500	0.69	14/6156 (0.2%)
1	V	0.45	0/4500	0.69	14/6156 (0.2%)
1	W	0.44	0/4500	0.69	14/6156 (0.2%)
1	X	0.45	0/4500	0.69	14/6156 (0.2%)
1	Y	0.45	0/4500	0.69	14/6156 (0.2%)
1	Z	0.45	0/4500	0.69	14/6156 (0.2%)

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	#|Z| >5	RMSZ	#|Z| >5
1	a	0.44	0/4500	0.69	14/6156 (0.2%)
1	b	0.45	0/4500	0.69	14/6156 (0.2%)
1	c	0.45	0/4500	0.69	14/6156 (0.2%)
1	d	0.45	0/4500	0.69	14/6156 (0.2%)
1	e	0.45	0/4500	0.69	14/6156 (0.2%)
1	f	0.44	0/4500	0.69	14/6156 (0.2%)
1	g	0.45	0/4500	0.69	14/6156 (0.2%)
1	h	0.45	0/4500	0.69	14/6156 (0.2%)
1	i	0.45	0/4500	0.69	14/6156 (0.2%)
1	j	0.44	0/4500	0.69	14/6156 (0.2%)
1	k	0.45	0/4500	0.69	14/6156 (0.2%)
1	l	0.45	0/4500	0.69	14/6156 (0.2%)
1	m	0.45	0/4500	0.69	14/6156 (0.2%)
1	n	0.45	0/4500	0.69	14/6156 (0.2%)
1	o	0.45	0/4500	0.69	14/6156 (0.2%)
1	p	0.44	0/4500	0.69	14/6156 (0.2%)
1	q	0.44	0/4500	0.69	14/6156 (0.2%)
1	r	0.45	0/4500	0.69	14/6156 (0.2%)
1	s	0.45	0/4500	0.69	14/6156 (0.2%)
1	t	0.45	0/4500	0.69	14/6156 (0.2%)
1	u	0.45	0/4500	0.69	14/6156 (0.2%)
1	v	0.44	0/4500	0.69	14/6156 (0.2%)
1	w	0.45	0/4500	0.69	14/6156 (0.2%)
1	x	0.45	0/4500	0.69	14/6156 (0.2%)
1	y	0.45	0/4500	0.69	14/6156 (0.2%)
1	z	0.45	0/4500	0.69	14/6156 (0.2%)
All	All	0.45	0/270000	0.69	840/369360 (0.2%)

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

Mol	Chain	#Chirality outliers	#Planarity outliers
1	0	0	1
1	1	0	1
1	2	0	1
1	3	0	1
1	4	0	1
1	5	0	1
1	6	0	1
1	7	0	1

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Mol	Chain	#Chirality outliers	#Planarity outliers
1	A	0	1
1	B	0	1
1	C	0	1
1	D	0	1
1	E	0	1
1	F	0	1
1	G	0	1
1	H	0	1
1	I	0	1
1	J	0	1
1	K	0	1
1	L	0	1
1	M	0	1
1	N	0	1
1	O	0	1
1	P	0	1
1	Q	0	1
1	R	0	1
1	S	0	1
1	T	0	1
1	U	0	1
1	V	0	1
1	W	0	1
1	X	0	1
1	Y	0	1
1	Z	0	1
1	a	0	1
1	b	0	1
1	c	0	1
1	d	0	1
1	e	0	1
1	f	0	1
1	g	0	1
1	h	0	1
1	i	0	1
1	j	0	1
1	k	0	1
1	l	0	1
1	m	0	1
1	n	0	1
1	o	0	1
1	p	0	1

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Mol	Chain	#Chirality outliers	#Planarity outliers
1	q	0	1
1	r	0	1
1	s	0	1
1	t	0	1
1	u	0	1
1	v	0	1
1	w	0	1
1	x	0	1
1	y	0	1
1	z	0	1
All	All	0	60

There are no bond length outliers.

All (840) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	G	429	THR	N-CA-C	13.00	125.53	111.36
1	X	429	THR	N-CA-C	13.00	125.53	111.36
1	4	429	THR	N-CA-C	13.00	125.53	111.36
1	j	429	THR	N-CA-C	13.00	125.53	111.36
1	r	429	THR	N-CA-C	13.00	125.53	111.36
1	v	429	THR	N-CA-C	13.00	125.53	111.36
1	K	429	THR	N-CA-C	12.99	125.52	111.36
1	U	429	THR	N-CA-C	12.99	125.52	111.36
1	7	429	THR	N-CA-C	12.99	125.52	111.36
1	I	429	THR	N-CA-C	12.99	125.52	111.36
1	3	429	THR	N-CA-C	12.99	125.52	111.36
1	f	429	THR	N-CA-C	12.99	125.52	111.36
1	i	429	THR	N-CA-C	12.99	125.52	111.36
1	t	429	THR	N-CA-C	12.99	125.52	111.36
1	u	429	THR	N-CA-C	12.99	125.52	111.36
1	b	429	THR	N-CA-C	12.98	125.51	111.36
1	6	429	THR	N-CA-C	12.98	125.51	111.36
1	d	429	THR	N-CA-C	12.98	125.51	111.36
1	T	429	THR	N-CA-C	12.98	125.51	111.36
1	F	429	THR	N-CA-C	12.98	125.50	111.36
1	H	429	THR	N-CA-C	12.98	125.50	111.36
1	a	429	THR	N-CA-C	12.98	125.50	111.36
1	c	429	THR	N-CA-C	12.98	125.50	111.36
1	o	429	THR	N-CA-C	12.98	125.50	111.36
1	x	429	THR	N-CA-C	12.98	125.50	111.36
1	D	429	THR	N-CA-C	12.97	125.50	111.36

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	N	429	THR	N-CA-C	12.97	125.50	111.36
1	P	429	THR	N-CA-C	12.97	125.50	111.36
1	1	429	THR	N-CA-C	12.97	125.50	111.36
1	L	429	THR	N-CA-C	12.97	125.50	111.36
1	y	429	THR	N-CA-C	12.97	125.50	111.36
1	O	429	THR	N-CA-C	12.97	125.50	111.36
1	V	429	THR	N-CA-C	12.97	125.50	111.36
1	s	429	THR	N-CA-C	12.97	125.50	111.36
1	S	429	THR	N-CA-C	12.96	125.49	111.36
1	Y	429	THR	N-CA-C	12.96	125.49	111.36
1	Z	429	THR	N-CA-C	12.96	125.49	111.36
1	5	429	THR	N-CA-C	12.97	125.49	111.36
1	q	429	THR	N-CA-C	12.97	125.49	111.36
1	A	429	THR	N-CA-C	12.96	125.49	111.36
1	z	429	THR	N-CA-C	12.96	125.49	111.36
1	E	429	THR	N-CA-C	12.96	125.48	111.36
1	g	429	THR	N-CA-C	12.96	125.48	111.36
1	p	429	THR	N-CA-C	12.96	125.48	111.36
1	h	429	THR	N-CA-C	12.96	125.48	111.36
1	l	429	THR	N-CA-C	12.96	125.48	111.36
1	m	429	THR	N-CA-C	12.96	125.48	111.36
1	R	429	THR	N-CA-C	12.96	125.48	111.36
1	Q	429	THR	N-CA-C	12.95	125.48	111.36
1	n	429	THR	N-CA-C	12.96	125.48	111.36
1	B	429	THR	N-CA-C	12.95	125.48	111.36
1	J	429	THR	N-CA-C	12.95	125.48	111.36
1	M	429	THR	N-CA-C	12.95	125.48	111.36
1	W	429	THR	N-CA-C	12.95	125.47	111.36
1	0	429	THR	N-CA-C	12.95	125.47	111.36
1	e	429	THR	N-CA-C	12.94	125.47	111.36
1	2	429	THR	N-CA-C	12.94	125.46	111.36
1	C	429	THR	N-CA-C	12.93	125.46	111.36
1	k	429	THR	N-CA-C	12.92	125.44	111.36
1	w	429	THR	N-CA-C	12.92	125.44	111.36
1	D	342	HIS	N-CA-C	9.55	121.78	111.36
1	B	342	HIS	N-CA-C	9.54	121.76	111.36
1	J	342	HIS	N-CA-C	9.54	121.76	111.36
1	a	342	HIS	N-CA-C	9.54	121.76	111.36
1	c	342	HIS	N-CA-C	9.54	121.76	111.36
1	d	342	HIS	N-CA-C	9.54	121.76	111.36
1	P	342	HIS	N-CA-C	9.54	121.76	111.36
1	T	342	HIS	N-CA-C	9.53	121.75	111.36

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	i	342	HIS	N-CA-C	9.53	121.75	111.36
1	u	342	HIS	N-CA-C	9.53	121.75	111.36
1	p	342	HIS	N-CA-C	9.52	121.74	111.36
1	E	342	HIS	N-CA-C	9.52	121.73	111.36
1	6	342	HIS	N-CA-C	9.52	121.73	111.36
1	H	342	HIS	N-CA-C	9.51	121.72	111.36
1	I	342	HIS	N-CA-C	9.51	121.73	111.36
1	U	342	HIS	N-CA-C	9.51	121.73	111.36
1	3	342	HIS	N-CA-C	9.51	121.73	111.36
1	f	342	HIS	N-CA-C	9.51	121.73	111.36
1	h	342	HIS	N-CA-C	9.51	121.72	111.36
1	m	342	HIS	N-CA-C	9.51	121.72	111.36
1	t	342	HIS	N-CA-C	9.51	121.73	111.36
1	x	342	HIS	N-CA-C	9.51	121.72	111.36
1	1	342	HIS	N-CA-C	9.51	121.72	111.36
1	C	342	HIS	N-CA-C	9.51	121.72	111.36
1	N	342	HIS	N-CA-C	9.51	121.72	111.36
1	b	342	HIS	N-CA-C	9.51	121.72	111.36
1	e	342	HIS	N-CA-C	9.51	121.72	111.36
1	y	342	HIS	N-CA-C	9.51	121.72	111.36
1	0	342	HIS	N-CA-C	9.51	121.72	111.36
1	A	342	HIS	N-CA-C	9.50	121.72	111.36
1	G	342	HIS	N-CA-C	9.50	121.72	111.36
1	K	342	HIS	N-CA-C	9.50	121.72	111.36
1	V	342	HIS	N-CA-C	9.50	121.72	111.36
1	4	342	HIS	N-CA-C	9.50	121.72	111.36
1	5	342	HIS	N-CA-C	9.50	121.72	111.36
1	j	342	HIS	N-CA-C	9.50	121.72	111.36
1	q	342	HIS	N-CA-C	9.50	121.72	111.36
1	s	342	HIS	N-CA-C	9.50	121.72	111.36
1	v	342	HIS	N-CA-C	9.50	121.72	111.36
1	F	342	HIS	N-CA-C	9.50	121.72	111.36
1	o	342	HIS	N-CA-C	9.50	121.72	111.36
1	W	342	HIS	N-CA-C	9.50	121.72	111.36
1	k	342	HIS	N-CA-C	9.50	121.72	111.36
1	z	342	HIS	N-CA-C	9.50	121.72	111.36
1	Y	342	HIS	N-CA-C	9.50	121.71	111.36
1	M	342	HIS	N-CA-C	9.50	121.71	111.36
1	L	342	HIS	N-CA-C	9.50	121.71	111.36
1	R	342	HIS	N-CA-C	9.49	121.70	111.36
1	S	342	HIS	N-CA-C	9.49	121.70	111.36
1	g	342	HIS	N-CA-C	9.49	121.70	111.36

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	l	342	HIS	N-CA-C	9.49	121.70	111.36
1	O	342	HIS	N-CA-C	9.48	121.70	111.36
1	w	342	HIS	N-CA-C	9.48	121.70	111.36
1	Z	342	HIS	N-CA-C	9.48	121.69	111.36
1	Q	342	HIS	N-CA-C	9.48	121.69	111.36
1	2	342	HIS	N-CA-C	9.48	121.69	111.36
1	n	342	HIS	N-CA-C	9.47	121.69	111.36
1	X	342	HIS	N-CA-C	9.47	121.68	111.36
1	r	342	HIS	N-CA-C	9.47	121.68	111.36
1	7	342	HIS	N-CA-C	9.47	121.68	111.36
1	E	431	ASP	N-CA-C	8.38	120.41	111.28
1	I	431	ASP	N-CA-C	8.37	120.40	111.28
1	3	431	ASP	N-CA-C	8.37	120.40	111.28
1	f	431	ASP	N-CA-C	8.37	120.40	111.28
1	t	431	ASP	N-CA-C	8.37	120.40	111.28
1	R	431	ASP	N-CA-C	8.36	120.39	111.28
1	a	431	ASP	N-CA-C	8.35	120.39	111.28
1	c	431	ASP	N-CA-C	8.35	120.39	111.28
1	z	431	ASP	N-CA-C	8.35	120.39	111.28
1	M	431	ASP	N-CA-C	8.35	120.38	111.28
1	F	431	ASP	N-CA-C	8.34	120.38	111.28
1	G	431	ASP	N-CA-C	8.34	120.37	111.28
1	J	431	ASP	N-CA-C	8.34	120.37	111.28
1	N	431	ASP	N-CA-C	8.34	120.37	111.28
1	4	431	ASP	N-CA-C	8.34	120.37	111.28
1	6	431	ASP	N-CA-C	8.34	120.37	111.28
1	d	431	ASP	N-CA-C	8.34	120.37	111.28
1	j	431	ASP	N-CA-C	8.34	120.37	111.28
1	v	431	ASP	N-CA-C	8.34	120.37	111.28
1	7	431	ASP	N-CA-C	8.34	120.37	111.28
1	Q	431	ASP	N-CA-C	8.34	120.37	111.28
1	y	431	ASP	N-CA-C	8.34	120.37	111.28
1	O	431	ASP	N-CA-C	8.33	120.36	111.28
1	Y	431	ASP	N-CA-C	8.33	120.36	111.28
1	Z	431	ASP	N-CA-C	8.33	120.36	111.28
1	D	431	ASP	N-CA-C	8.33	120.36	111.28
1	K	431	ASP	N-CA-C	8.33	120.36	111.28
1	P	431	ASP	N-CA-C	8.33	120.36	111.28
1	X	431	ASP	N-CA-C	8.33	120.36	111.28
1	5	431	ASP	N-CA-C	8.33	120.36	111.28
1	n	431	ASP	N-CA-C	8.33	120.36	111.28
1	q	431	ASP	N-CA-C	8.33	120.36	111.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	r	431	ASP	N-CA-C	8.33	120.36	111.28
1	s	431	ASP	N-CA-C	8.33	120.36	111.28
1	o	431	ASP	N-CA-C	8.33	120.36	111.28
1	S	431	ASP	N-CA-C	8.33	120.36	111.28
1	2	431	ASP	N-CA-C	8.33	120.36	111.28
1	W	431	ASP	N-CA-C	8.32	120.35	111.28
1	h	431	ASP	N-CA-C	8.32	120.35	111.28
1	k	431	ASP	N-CA-C	8.32	120.35	111.28
1	w	431	ASP	N-CA-C	8.32	120.35	111.28
1	A	431	ASP	N-CA-C	8.32	120.35	111.28
1	g	431	ASP	N-CA-C	8.32	120.35	111.28
1	l	431	ASP	N-CA-C	8.32	120.35	111.28
1	B	431	ASP	N-CA-C	8.31	120.34	111.28
1	H	431	ASP	N-CA-C	8.31	120.34	111.28
1	1	431	ASP	N-CA-C	8.31	120.34	111.28
1	m	431	ASP	N-CA-C	8.31	120.34	111.28
1	x	431	ASP	N-CA-C	8.31	120.34	111.28
1	T	431	ASP	N-CA-C	8.31	120.34	111.28
1	V	431	ASP	N-CA-C	8.31	120.34	111.28
1	i	431	ASP	N-CA-C	8.31	120.34	111.28
1	u	431	ASP	N-CA-C	8.31	120.34	111.28
1	p	431	ASP	N-CA-C	8.31	120.34	111.28
1	C	431	ASP	N-CA-C	8.30	120.33	111.28
1	U	431	ASP	N-CA-C	8.30	120.33	111.28
1	0	431	ASP	N-CA-C	8.30	120.33	111.28
1	b	431	ASP	N-CA-C	8.30	120.32	111.28
1	e	431	ASP	N-CA-C	8.30	120.32	111.28
1	L	431	ASP	N-CA-C	8.28	120.31	111.28
1	R	364	ASP	CA-C-N	8.07	127.64	118.85
1	R	364	ASP	C-N-CA	8.07	127.64	118.85
1	K	364	ASP	CA-C-N	8.04	127.62	118.85
1	K	364	ASP	C-N-CA	8.04	127.62	118.85
1	5	364	ASP	CA-C-N	8.04	127.62	118.85
1	5	364	ASP	C-N-CA	8.04	127.62	118.85
1	q	364	ASP	CA-C-N	8.04	127.62	118.85
1	q	364	ASP	C-N-CA	8.04	127.62	118.85
1	I	364	ASP	CA-C-N	8.03	127.60	118.85
1	I	364	ASP	C-N-CA	8.03	127.60	118.85
1	3	364	ASP	CA-C-N	8.03	127.60	118.85
1	3	364	ASP	C-N-CA	8.03	127.60	118.85
1	f	364	ASP	CA-C-N	8.03	127.60	118.85
1	f	364	ASP	C-N-CA	8.03	127.60	118.85

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	t	364	ASP	CA-C-N	8.03	127.60	118.85
1	t	364	ASP	C-N-CA	8.03	127.60	118.85
1	H	364	ASP	CA-C-N	8.02	127.59	118.85
1	H	364	ASP	C-N-CA	8.02	127.59	118.85
1	S	364	ASP	CA-C-N	8.02	127.59	118.85
1	S	364	ASP	C-N-CA	8.02	127.59	118.85
1	x	364	ASP	CA-C-N	8.02	127.59	118.85
1	x	364	ASP	C-N-CA	8.02	127.59	118.85
1	o	364	ASP	CA-C-N	8.01	127.58	118.85
1	o	364	ASP	C-N-CA	8.01	127.58	118.85
1	z	364	ASP	CA-C-N	8.01	127.58	118.85
1	z	364	ASP	C-N-CA	8.01	127.58	118.85
1	n	364	ASP	CA-C-N	8.01	127.58	118.85
1	n	364	ASP	C-N-CA	8.01	127.58	118.85
1	y	364	ASP	CA-C-N	8.01	127.58	118.85
1	y	364	ASP	C-N-CA	8.01	127.58	118.85
1	O	364	ASP	CA-C-N	8.01	127.58	118.85
1	O	364	ASP	C-N-CA	8.01	127.58	118.85
1	W	364	ASP	CA-C-N	8.01	127.58	118.85
1	W	364	ASP	C-N-CA	8.01	127.58	118.85
1	k	364	ASP	CA-C-N	8.01	127.58	118.85
1	k	364	ASP	C-N-CA	8.01	127.58	118.85
1	w	364	ASP	CA-C-N	8.01	127.58	118.85
1	w	364	ASP	C-N-CA	8.01	127.58	118.85
1	F	364	ASP	CA-C-N	8.00	127.57	118.85
1	F	364	ASP	C-N-CA	8.00	127.57	118.85
1	p	364	ASP	CA-C-N	8.00	127.57	118.85
1	p	364	ASP	C-N-CA	8.00	127.57	118.85
1	N	364	ASP	CA-C-N	8.00	127.57	118.85
1	N	364	ASP	C-N-CA	8.00	127.57	118.85
1	1	364	ASP	CA-C-N	8.00	127.57	118.85
1	1	364	ASP	C-N-CA	8.00	127.57	118.85
1	0	364	ASP	CA-C-N	8.00	127.56	118.85
1	0	364	ASP	C-N-CA	8.00	127.56	118.85
1	C	364	ASP	CA-C-N	8.00	127.56	118.85
1	C	364	ASP	C-N-CA	8.00	127.56	118.85
1	Y	364	ASP	CA-C-N	8.00	127.56	118.85
1	Y	364	ASP	C-N-CA	8.00	127.56	118.85
1	Z	364	ASP	CA-C-N	8.00	127.56	118.85
1	Z	364	ASP	C-N-CA	8.00	127.56	118.85
1	g	364	ASP	CA-C-N	8.00	127.56	118.85
1	g	364	ASP	C-N-CA	8.00	127.56	118.85

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	l	364	ASP	CA-C-N	8.00	127.56	118.85
1	l	364	ASP	C-N-CA	8.00	127.56	118.85
1	h	364	ASP	CA-C-N	7.99	127.56	118.85
1	h	364	ASP	C-N-CA	7.99	127.56	118.85
1	m	364	ASP	CA-C-N	7.99	127.56	118.85
1	m	364	ASP	C-N-CA	7.99	127.56	118.85
1	A	364	ASP	CA-C-N	7.99	127.56	118.85
1	A	364	ASP	C-N-CA	7.99	127.56	118.85
1	J	364	ASP	CA-C-N	7.99	127.56	118.85
1	J	364	ASP	C-N-CA	7.99	127.56	118.85
1	U	364	ASP	CA-C-N	7.99	127.56	118.85
1	U	364	ASP	C-N-CA	7.99	127.56	118.85
1	6	364	ASP	CA-C-N	7.99	127.56	118.85
1	6	364	ASP	C-N-CA	7.99	127.56	118.85
1	d	364	ASP	CA-C-N	7.99	127.56	118.85
1	d	364	ASP	C-N-CA	7.99	127.56	118.85
1	7	364	ASP	CA-C-N	7.99	127.56	118.85
1	7	364	ASP	C-N-CA	7.99	127.56	118.85
1	L	364	ASP	CA-C-N	7.99	127.55	118.85
1	L	364	ASP	C-N-CA	7.99	127.55	118.85
1	M	364	ASP	CA-C-N	7.99	127.55	118.85
1	M	364	ASP	C-N-CA	7.99	127.55	118.85
1	X	364	ASP	CA-C-N	7.98	127.55	118.85
1	X	364	ASP	C-N-CA	7.98	127.55	118.85
1	b	364	ASP	CA-C-N	7.98	127.55	118.85
1	b	364	ASP	C-N-CA	7.98	127.55	118.85
1	e	364	ASP	CA-C-N	7.98	127.55	118.85
1	e	364	ASP	C-N-CA	7.98	127.55	118.85
1	r	364	ASP	CA-C-N	7.98	127.55	118.85
1	r	364	ASP	C-N-CA	7.98	127.55	118.85
1	T	364	ASP	CA-C-N	7.98	127.55	118.85
1	T	364	ASP	C-N-CA	7.98	127.55	118.85
1	a	364	ASP	CA-C-N	7.98	127.55	118.85
1	a	364	ASP	C-N-CA	7.98	127.55	118.85
1	c	364	ASP	CA-C-N	7.98	127.55	118.85
1	c	364	ASP	C-N-CA	7.98	127.55	118.85
1	u	364	ASP	CA-C-N	7.98	127.55	118.85
1	u	364	ASP	C-N-CA	7.98	127.55	118.85
1	i	364	ASP	CA-C-N	7.97	127.54	118.85
1	i	364	ASP	C-N-CA	7.97	127.54	118.85
1	j	364	ASP	CA-C-N	7.97	127.54	118.85
1	j	364	ASP	C-N-CA	7.97	127.54	118.85

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	B	364	ASP	CA-C-N	7.97	127.54	118.85
1	B	364	ASP	C-N-CA	7.97	127.54	118.85
1	2	364	ASP	CA-C-N	7.97	127.54	118.85
1	2	364	ASP	C-N-CA	7.97	127.54	118.85
1	Q	364	ASP	CA-C-N	7.97	127.54	118.85
1	Q	364	ASP	C-N-CA	7.97	127.54	118.85
1	E	364	ASP	CA-C-N	7.97	127.54	118.85
1	E	364	ASP	C-N-CA	7.97	127.54	118.85
1	G	364	ASP	CA-C-N	7.96	127.52	118.85
1	G	364	ASP	C-N-CA	7.96	127.52	118.85
1	D	364	ASP	CA-C-N	7.96	127.52	118.85
1	D	364	ASP	C-N-CA	7.96	127.52	118.85
1	P	364	ASP	CA-C-N	7.96	127.52	118.85
1	P	364	ASP	C-N-CA	7.96	127.52	118.85
1	V	364	ASP	CA-C-N	7.96	127.52	118.85
1	V	364	ASP	C-N-CA	7.96	127.52	118.85
1	s	364	ASP	CA-C-N	7.96	127.52	118.85
1	s	364	ASP	C-N-CA	7.96	127.52	118.85
1	v	364	ASP	CA-C-N	7.94	127.50	118.85
1	v	364	ASP	C-N-CA	7.94	127.50	118.85
1	4	364	ASP	CA-C-N	7.93	127.50	118.85
1	4	364	ASP	C-N-CA	7.93	127.50	118.85
1	C	337	PRO	N-CA-C	-7.03	97.98	112.47
1	G	337	PRO	N-CA-C	-7.03	97.98	112.47
1	S	337	PRO	N-CA-C	-7.03	97.98	112.47
1	4	337	PRO	N-CA-C	-7.03	97.98	112.47
1	j	337	PRO	N-CA-C	-7.03	97.98	112.47
1	v	337	PRO	N-CA-C	-7.03	97.98	112.47
1	x	337	PRO	N-CA-C	-7.03	97.98	112.47
1	z	337	PRO	N-CA-C	-7.03	97.98	112.47
1	K	337	PRO	N-CA-C	-7.03	98.00	112.47
1	V	337	PRO	N-CA-C	-7.03	98.00	112.47
1	2	337	PRO	N-CA-C	-7.03	98.00	112.47
1	5	337	PRO	N-CA-C	-7.03	98.00	112.47
1	g	337	PRO	N-CA-C	-7.03	97.99	112.47
1	h	337	PRO	N-CA-C	-7.03	98.00	112.47
1	l	337	PRO	N-CA-C	-7.03	97.99	112.47
1	m	337	PRO	N-CA-C	-7.03	98.00	112.47
1	q	337	PRO	N-CA-C	-7.03	98.00	112.47
1	e	337	PRO	N-CA-C	-7.02	98.00	112.47
1	B	337	PRO	N-CA-C	-7.02	98.01	112.47
1	O	337	PRO	N-CA-C	-7.02	98.01	112.47

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	T	337	PRO	N-CA-C	-7.02	98.01	112.47
1	a	337	PRO	N-CA-C	-7.02	98.01	112.47
1	c	337	PRO	N-CA-C	-7.02	98.01	112.47
1	i	337	PRO	N-CA-C	-7.02	98.01	112.47
1	u	337	PRO	N-CA-C	-7.02	98.01	112.47
1	N	337	PRO	N-CA-C	-7.02	98.01	112.47
1	W	337	PRO	N-CA-C	-7.02	98.01	112.47
1	b	337	PRO	N-CA-C	-7.02	98.01	112.47
1	w	337	PRO	N-CA-C	-7.02	98.01	112.47
1	7	337	PRO	N-CA-C	-7.02	98.01	112.47
1	A	337	PRO	N-CA-C	-7.01	98.02	112.47
1	0	337	PRO	N-CA-C	-7.01	98.02	112.47
1	k	337	PRO	N-CA-C	-7.01	98.02	112.47
1	D	337	PRO	N-CA-C	-7.01	98.03	112.47
1	R	337	PRO	N-CA-C	-7.01	98.03	112.47
1	X	337	PRO	N-CA-C	-7.01	98.03	112.47
1	r	337	PRO	N-CA-C	-7.01	98.03	112.47
1	y	337	PRO	N-CA-C	-7.01	98.03	112.47
1	F	337	PRO	N-CA-C	-7.01	98.03	112.47
1	H	337	PRO	N-CA-C	-7.01	98.03	112.47
1	I	337	PRO	N-CA-C	-7.01	98.03	112.47
1	L	337	PRO	N-CA-C	-7.01	98.03	112.47
1	3	337	PRO	N-CA-C	-7.01	98.03	112.47
1	f	337	PRO	N-CA-C	-7.01	98.03	112.47
1	o	337	PRO	N-CA-C	-7.01	98.03	112.47
1	t	337	PRO	N-CA-C	-7.01	98.03	112.47
1	1	337	PRO	N-CA-C	-7.01	98.03	112.47
1	M	337	PRO	N-CA-C	-7.01	98.04	112.47
1	P	337	PRO	N-CA-C	-7.01	98.04	112.47
1	s	337	PRO	N-CA-C	-7.01	98.04	112.47
1	J	337	PRO	N-CA-C	-7.00	98.04	112.47
1	6	337	PRO	N-CA-C	-7.00	98.04	112.47
1	d	337	PRO	N-CA-C	-7.00	98.04	112.47
1	U	337	PRO	N-CA-C	-7.00	98.04	112.47
1	p	337	PRO	N-CA-C	-7.00	98.04	112.47
1	Y	337	PRO	N-CA-C	-7.00	98.05	112.47
1	Z	337	PRO	N-CA-C	-7.00	98.05	112.47
1	n	337	PRO	N-CA-C	-7.00	98.05	112.47
1	Q	337	PRO	N-CA-C	-7.00	98.05	112.47
1	E	337	PRO	N-CA-C	-6.99	98.07	112.47
1	O	113	ILE	CA-C-N	-6.60	110.80	122.48
1	O	113	ILE	C-N-CA	-6.60	110.80	122.48

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	P	113	ILE	CA-C-N	-6.60	110.80	122.48
1	P	113	ILE	C-N-CA	-6.60	110.80	122.48
1	W	113	ILE	CA-C-N	-6.60	110.80	122.48
1	W	113	ILE	C-N-CA	-6.60	110.80	122.48
1	H	113	ILE	CA-C-N	-6.59	110.81	122.48
1	H	113	ILE	C-N-CA	-6.59	110.81	122.48
1	S	113	ILE	CA-C-N	-6.59	110.81	122.48
1	S	113	ILE	C-N-CA	-6.59	110.81	122.48
1	o	113	ILE	CA-C-N	-6.59	110.81	122.48
1	o	113	ILE	C-N-CA	-6.59	110.81	122.48
1	x	113	ILE	CA-C-N	-6.59	110.81	122.48
1	x	113	ILE	C-N-CA	-6.59	110.81	122.48
1	a	113	ILE	CA-C-N	-6.59	110.81	122.48
1	a	113	ILE	C-N-CA	-6.59	110.81	122.48
1	c	113	ILE	CA-C-N	-6.59	110.81	122.48
1	c	113	ILE	C-N-CA	-6.59	110.81	122.48
1	g	113	ILE	CA-C-N	-6.59	110.82	122.48
1	g	113	ILE	C-N-CA	-6.59	110.82	122.48
1	B	113	ILE	CA-C-N	-6.59	110.82	122.48
1	B	113	ILE	C-N-CA	-6.59	110.82	122.48
1	R	113	ILE	CA-C-N	-6.59	110.82	122.48
1	R	113	ILE	C-N-CA	-6.59	110.82	122.48
1	b	113	ILE	CA-C-N	-6.59	110.82	122.48
1	b	113	ILE	C-N-CA	-6.59	110.82	122.48
1	e	113	ILE	CA-C-N	-6.59	110.82	122.48
1	e	113	ILE	C-N-CA	-6.59	110.82	122.48
1	M	113	ILE	CA-C-N	-6.58	110.83	122.48
1	M	113	ILE	C-N-CA	-6.58	110.83	122.48
1	2	113	ILE	CA-C-N	-6.58	110.83	122.48
1	2	113	ILE	C-N-CA	-6.58	110.83	122.48
1	6	113	ILE	CA-C-N	-6.58	110.83	122.48
1	6	113	ILE	C-N-CA	-6.58	110.83	122.48
1	d	113	ILE	CA-C-N	-6.58	110.83	122.48
1	d	113	ILE	C-N-CA	-6.58	110.83	122.48
1	k	113	ILE	CA-C-N	-6.58	110.83	122.48
1	k	113	ILE	C-N-CA	-6.58	110.83	122.48
1	p	113	ILE	CA-C-N	-6.58	110.83	122.48
1	p	113	ILE	C-N-CA	-6.58	110.83	122.48
1	w	113	ILE	CA-C-N	-6.58	110.83	122.48
1	w	113	ILE	C-N-CA	-6.58	110.83	122.48
1	L	113	ILE	CA-C-N	-6.58	110.83	122.48
1	L	113	ILE	C-N-CA	-6.58	110.83	122.48

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	l	113	ILE	CA-C-N	-6.58	110.83	122.48
1	l	113	ILE	C-N-CA	-6.58	110.83	122.48
1	N	113	ILE	CA-C-N	-6.58	110.83	122.48
1	N	113	ILE	C-N-CA	-6.58	110.83	122.48
1	X	113	ILE	CA-C-N	-6.58	110.83	122.48
1	X	113	ILE	C-N-CA	-6.58	110.83	122.48
1	j	113	ILE	CA-C-N	-6.58	110.83	122.48
1	j	113	ILE	C-N-CA	-6.58	110.83	122.48
1	r	113	ILE	CA-C-N	-6.58	110.83	122.48
1	r	113	ILE	C-N-CA	-6.58	110.83	122.48
1	0	113	ILE	CA-C-N	-6.58	110.83	122.48
1	0	113	ILE	C-N-CA	-6.58	110.83	122.48
1	h	113	ILE	CA-C-N	-6.57	110.84	122.48
1	h	113	ILE	C-N-CA	-6.57	110.84	122.48
1	m	113	ILE	CA-C-N	-6.57	110.84	122.48
1	m	113	ILE	C-N-CA	-6.57	110.84	122.48
1	A	113	ILE	CA-C-N	-6.57	110.85	122.48
1	A	113	ILE	C-N-CA	-6.57	110.85	122.48
1	G	113	ILE	CA-C-N	-6.57	110.85	122.48
1	G	113	ILE	C-N-CA	-6.57	110.85	122.48
1	4	113	ILE	CA-C-N	-6.57	110.85	122.48
1	4	113	ILE	C-N-CA	-6.57	110.85	122.48
1	v	113	ILE	CA-C-N	-6.57	110.85	122.48
1	v	113	ILE	C-N-CA	-6.57	110.85	122.48
1	D	113	ILE	CA-C-N	-6.57	110.85	122.48
1	D	113	ILE	C-N-CA	-6.57	110.85	122.48
1	V	113	ILE	CA-C-N	-6.57	110.85	122.48
1	V	113	ILE	C-N-CA	-6.57	110.85	122.48
1	1	113	ILE	CA-C-N	-6.57	110.85	122.48
1	1	113	ILE	C-N-CA	-6.57	110.85	122.48
1	s	113	ILE	CA-C-N	-6.57	110.85	122.48
1	s	113	ILE	C-N-CA	-6.57	110.85	122.48
1	C	113	ILE	CA-C-N	-6.57	110.86	122.48
1	C	113	ILE	C-N-CA	-6.57	110.86	122.48
1	n	113	ILE	CA-C-N	-6.57	110.86	122.48
1	n	113	ILE	C-N-CA	-6.57	110.86	122.48
1	y	113	ILE	CA-C-N	-6.56	110.86	122.48
1	y	113	ILE	C-N-CA	-6.56	110.86	122.48
1	U	113	ILE	CA-C-N	-6.56	110.87	122.48
1	U	113	ILE	C-N-CA	-6.56	110.87	122.48
1	Q	113	ILE	CA-C-N	-6.56	110.87	122.48
1	Q	113	ILE	C-N-CA	-6.56	110.87	122.48

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	T	113	ILE	CA-C-N	-6.56	110.87	122.48
1	T	113	ILE	C-N-CA	-6.56	110.87	122.48
1	3	113	ILE	CA-C-N	-6.56	110.87	122.48
1	3	113	ILE	C-N-CA	-6.56	110.87	122.48
1	i	113	ILE	CA-C-N	-6.56	110.87	122.48
1	i	113	ILE	C-N-CA	-6.56	110.87	122.48
1	t	113	ILE	CA-C-N	-6.56	110.87	122.48
1	t	113	ILE	C-N-CA	-6.56	110.87	122.48
1	u	113	ILE	CA-C-N	-6.56	110.87	122.48
1	u	113	ILE	C-N-CA	-6.56	110.87	122.48
1	F	113	ILE	CA-C-N	-6.56	110.88	122.48
1	F	113	ILE	C-N-CA	-6.56	110.88	122.48
1	z	113	ILE	CA-C-N	-6.56	110.88	122.48
1	z	113	ILE	C-N-CA	-6.56	110.88	122.48
1	E	113	ILE	CA-C-N	-6.56	110.88	122.48
1	E	113	ILE	C-N-CA	-6.56	110.88	122.48
1	I	113	ILE	CA-C-N	-6.55	110.88	122.48
1	I	113	ILE	C-N-CA	-6.55	110.88	122.48
1	K	113	ILE	CA-C-N	-6.55	110.89	122.48
1	K	113	ILE	C-N-CA	-6.55	110.89	122.48
1	5	113	ILE	CA-C-N	-6.55	110.89	122.48
1	5	113	ILE	C-N-CA	-6.55	110.89	122.48
1	f	113	ILE	CA-C-N	-6.55	110.88	122.48
1	f	113	ILE	C-N-CA	-6.55	110.88	122.48
1	q	113	ILE	CA-C-N	-6.55	110.89	122.48
1	q	113	ILE	C-N-CA	-6.55	110.89	122.48
1	Y	113	ILE	CA-C-N	-6.55	110.89	122.48
1	Y	113	ILE	C-N-CA	-6.55	110.89	122.48
1	Z	113	ILE	CA-C-N	-6.55	110.89	122.48
1	Z	113	ILE	C-N-CA	-6.55	110.89	122.48
1	J	113	ILE	CA-C-N	-6.54	110.90	122.48
1	J	113	ILE	C-N-CA	-6.54	110.90	122.48
1	7	113	ILE	CA-C-N	-6.54	110.90	122.48
1	7	113	ILE	C-N-CA	-6.54	110.90	122.48
1	Y	362	SER	N-CA-C	6.21	118.04	111.28
1	Z	362	SER	N-CA-C	6.21	118.04	111.28
1	C	362	SER	N-CA-C	6.20	118.04	111.28
1	V	362	SER	N-CA-C	6.20	118.04	111.28
1	s	362	SER	N-CA-C	6.20	118.04	111.28
1	0	362	SER	N-CA-C	6.20	118.04	111.28
1	z	362	SER	N-CA-C	6.20	118.03	111.28
1	B	362	SER	N-CA-C	6.19	118.03	111.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	a	362	SER	N-CA-C	6.19	118.03	111.28
1	c	362	SER	N-CA-C	6.19	118.03	111.28
1	u	362	SER	N-CA-C	6.19	118.02	111.28
1	4	362	SER	N-CA-C	6.19	118.02	111.28
1	v	362	SER	N-CA-C	6.19	118.02	111.28
1	J	362	SER	N-CA-C	6.18	118.02	111.28
1	6	362	SER	N-CA-C	6.18	118.02	111.28
1	d	362	SER	N-CA-C	6.18	118.02	111.28
1	L	362	SER	N-CA-C	6.17	118.01	111.28
1	g	362	SER	N-CA-C	6.17	118.01	111.28
1	l	362	SER	N-CA-C	6.17	118.01	111.28
1	o	362	SER	N-CA-C	6.17	118.01	111.28
1	N	362	SER	N-CA-C	6.17	118.01	111.28
1	V	430	GLN	N-CA-C	6.17	120.12	111.30
1	s	430	GLN	N-CA-C	6.17	120.12	111.30
1	A	362	SER	N-CA-C	6.17	118.00	111.28
1	F	362	SER	N-CA-C	6.17	118.00	111.28
1	H	362	SER	N-CA-C	6.17	118.00	111.28
1	K	362	SER	N-CA-C	6.17	118.00	111.28
1	S	362	SER	N-CA-C	6.17	118.00	111.28
1	2	362	SER	N-CA-C	6.17	118.00	111.28
1	5	362	SER	N-CA-C	6.17	118.00	111.28
1	h	362	SER	N-CA-C	6.17	118.00	111.28
1	i	362	SER	N-CA-C	6.17	118.00	111.28
1	m	362	SER	N-CA-C	6.17	118.00	111.28
1	q	362	SER	N-CA-C	6.17	118.00	111.28
1	x	362	SER	N-CA-C	6.17	118.00	111.28
1	E	362	SER	N-CA-C	6.16	118.00	111.28
1	Q	362	SER	N-CA-C	6.16	117.99	111.28
1	I	362	SER	N-CA-C	6.16	117.99	111.28
1	T	362	SER	N-CA-C	6.16	117.99	111.28
1	3	362	SER	N-CA-C	6.16	117.99	111.28
1	f	362	SER	N-CA-C	6.16	117.99	111.28
1	t	362	SER	N-CA-C	6.16	117.99	111.28
1	n	362	SER	N-CA-C	6.16	117.99	111.28
1	7	362	SER	N-CA-C	6.15	117.98	111.28
1	B	430	GLN	N-CA-C	6.15	120.09	111.30
1	H	430	GLN	N-CA-C	6.15	120.09	111.30
1	S	430	GLN	N-CA-C	6.15	120.09	111.30
1	2	430	GLN	N-CA-C	6.15	120.09	111.30
1	a	430	GLN	N-CA-C	6.15	120.09	111.30
1	c	430	GLN	N-CA-C	6.15	120.09	111.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	h	430	GLN	N-CA-C	6.15	120.09	111.30
1	m	430	GLN	N-CA-C	6.15	120.09	111.30
1	x	430	GLN	N-CA-C	6.15	120.09	111.30
1	E	430	GLN	N-CA-C	6.14	120.08	111.30
1	R	430	GLN	N-CA-C	6.14	120.08	111.30
1	U	430	GLN	N-CA-C	6.14	120.08	111.30
1	p	430	GLN	N-CA-C	6.14	120.08	111.30
1	r	362	SER	N-CA-C	6.14	117.97	111.28
1	P	430	GLN	N-CA-C	6.14	120.08	111.30
1	X	430	GLN	N-CA-C	6.14	120.08	111.30
1	Y	430	GLN	N-CA-C	6.14	120.08	111.30
1	Z	430	GLN	N-CA-C	6.14	120.08	111.30
1	0	430	GLN	N-CA-C	6.14	120.08	111.30
1	D	362	SER	N-CA-C	6.14	117.97	111.28
1	P	362	SER	N-CA-C	6.14	117.97	111.28
1	R	362	SER	N-CA-C	6.14	117.97	111.28
1	X	362	SER	N-CA-C	6.14	117.97	111.28
1	1	362	SER	N-CA-C	6.14	117.97	111.28
1	y	430	GLN	N-CA-C	6.14	120.08	111.30
1	G	362	SER	N-CA-C	6.14	117.97	111.28
1	j	362	SER	N-CA-C	6.14	117.97	111.28
1	r	430	GLN	N-CA-C	6.14	120.08	111.30
1	A	430	GLN	N-CA-C	6.13	120.07	111.30
1	M	362	SER	N-CA-C	6.13	117.96	111.28
1	O	362	SER	N-CA-C	6.13	117.96	111.28
1	U	362	SER	N-CA-C	6.13	117.96	111.28
1	k	362	SER	N-CA-C	6.13	117.96	111.28
1	p	362	SER	N-CA-C	6.13	117.96	111.28
1	w	362	SER	N-CA-C	6.13	117.96	111.28
1	i	430	GLN	N-CA-C	6.13	120.06	111.30
1	u	430	GLN	N-CA-C	6.13	120.06	111.30
1	W	362	SER	N-CA-C	6.13	117.96	111.28
1	l	430	GLN	N-CA-C	6.13	120.06	111.30
1	C	430	GLN	N-CA-C	6.13	120.06	111.30
1	W	430	GLN	N-CA-C	6.13	120.06	111.30
1	n	430	GLN	N-CA-C	6.13	120.06	111.30
1	w	430	GLN	N-CA-C	6.13	120.06	111.30
1	D	430	GLN	N-CA-C	6.12	120.06	111.30
1	K	430	GLN	N-CA-C	6.12	120.06	111.30
1	5	430	GLN	N-CA-C	6.12	120.06	111.30
1	b	362	SER	N-CA-C	6.12	117.96	111.28
1	e	362	SER	N-CA-C	6.12	117.96	111.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	q	430	GLN	N-CA-C	6.12	120.06	111.30
1	G	430	GLN	N-CA-C	6.12	120.06	111.30
1	L	430	GLN	N-CA-C	6.12	120.06	111.30
1	O	430	GLN	N-CA-C	6.12	120.06	111.30
1	4	430	GLN	N-CA-C	6.12	120.06	111.30
1	b	430	GLN	N-CA-C	6.12	120.06	111.30
1	e	430	GLN	N-CA-C	6.12	120.06	111.30
1	j	430	GLN	N-CA-C	6.12	120.06	111.30
1	k	430	GLN	N-CA-C	6.12	120.06	111.30
1	v	430	GLN	N-CA-C	6.12	120.06	111.30
1	y	362	SER	N-CA-C	6.12	117.95	111.28
1	N	430	GLN	N-CA-C	6.12	120.05	111.30
1	o	430	GLN	N-CA-C	6.12	120.05	111.30
1	M	430	GLN	N-CA-C	6.12	120.05	111.30
1	J	430	GLN	N-CA-C	6.12	120.05	111.30
1	6	430	GLN	N-CA-C	6.12	120.05	111.30
1	d	430	GLN	N-CA-C	6.12	120.05	111.30
1	7	430	GLN	N-CA-C	6.12	120.05	111.30
1	Q	430	GLN	N-CA-C	6.12	120.05	111.30
1	I	430	GLN	N-CA-C	6.11	120.04	111.30
1	3	430	GLN	N-CA-C	6.11	120.04	111.30
1	f	430	GLN	N-CA-C	6.11	120.04	111.30
1	t	430	GLN	N-CA-C	6.11	120.04	111.30
1	1	430	GLN	N-CA-C	6.11	120.03	111.30
1	g	430	GLN	N-CA-C	6.11	120.03	111.30
1	F	430	GLN	N-CA-C	6.10	120.03	111.30
1	z	430	GLN	N-CA-C	6.10	120.03	111.30
1	T	430	GLN	N-CA-C	6.10	120.02	111.30
1	m	407	TRP	N-CA-C	-5.99	99.47	109.24
1	X	407	TRP	N-CA-C	-5.99	99.47	109.24
1	r	407	TRP	N-CA-C	-5.99	99.47	109.24
1	h	407	TRP	N-CA-C	-5.98	99.49	109.24
1	I	407	TRP	N-CA-C	-5.98	99.49	109.24
1	3	407	TRP	N-CA-C	-5.98	99.49	109.24
1	6	407	TRP	N-CA-C	-5.98	99.49	109.24
1	d	407	TRP	N-CA-C	-5.98	99.49	109.24
1	f	407	TRP	N-CA-C	-5.98	99.49	109.24
1	t	407	TRP	N-CA-C	-5.98	99.49	109.24
1	l	407	TRP	N-CA-C	-5.98	99.50	109.24
1	J	407	TRP	N-CA-C	-5.98	99.50	109.24
1	a	407	TRP	N-CA-C	-5.98	99.50	109.24
1	c	407	TRP	N-CA-C	-5.98	99.50	109.24

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	D	407	TRP	N-CA-C	-5.97	99.50	109.24
1	K	407	TRP	N-CA-C	-5.97	99.50	109.24
1	S	407	TRP	N-CA-C	-5.97	99.50	109.24
1	5	407	TRP	N-CA-C	-5.97	99.50	109.24
1	q	407	TRP	N-CA-C	-5.97	99.50	109.24
1	C	407	TRP	N-CA-C	-5.97	99.51	109.24
1	M	407	TRP	N-CA-C	-5.97	99.51	109.24
1	N	407	TRP	N-CA-C	-5.97	99.51	109.24
1	F	407	TRP	N-CA-C	-5.96	99.52	109.24
1	n	407	TRP	N-CA-C	-5.96	99.52	109.24
1	z	407	TRP	N-CA-C	-5.96	99.52	109.24
1	x	407	TRP	N-CA-C	-5.96	99.52	109.24
1	y	407	TRP	N-CA-C	-5.96	99.52	109.24
1	A	407	TRP	N-CA-C	-5.96	99.53	109.24
1	B	407	TRP	N-CA-C	-5.96	99.53	109.24
1	T	407	TRP	N-CA-C	-5.96	99.53	109.24
1	i	407	TRP	N-CA-C	-5.96	99.53	109.24
1	u	407	TRP	N-CA-C	-5.96	99.53	109.24
1	G	407	TRP	N-CA-C	-5.96	99.53	109.24
1	V	407	TRP	N-CA-C	-5.96	99.53	109.24
1	1	407	TRP	N-CA-C	-5.96	99.53	109.24
1	4	407	TRP	N-CA-C	-5.96	99.53	109.24
1	s	407	TRP	N-CA-C	-5.96	99.53	109.24
1	v	407	TRP	N-CA-C	-5.96	99.53	109.24
1	0	407	TRP	N-CA-C	-5.96	99.53	109.24
1	H	407	TRP	N-CA-C	-5.95	99.54	109.24
1	2	407	TRP	N-CA-C	-5.95	99.54	109.24
1	p	407	TRP	N-CA-C	-5.95	99.53	109.24
1	Q	407	TRP	N-CA-C	-5.95	99.54	109.24
1	E	407	TRP	N-CA-C	-5.95	99.55	109.24
1	W	407	TRP	N-CA-C	-5.95	99.55	109.24
1	k	407	TRP	N-CA-C	-5.95	99.55	109.24
1	o	407	TRP	N-CA-C	-5.95	99.55	109.24
1	w	407	TRP	N-CA-C	-5.95	99.55	109.24
1	L	407	TRP	N-CA-C	-5.94	99.55	109.24
1	R	407	TRP	N-CA-C	-5.94	99.55	109.24
1	Y	407	TRP	N-CA-C	-5.94	99.55	109.24
1	Z	407	TRP	N-CA-C	-5.94	99.55	109.24
1	b	407	TRP	N-CA-C	-5.94	99.55	109.24
1	e	407	TRP	N-CA-C	-5.94	99.55	109.24
1	P	407	TRP	N-CA-C	-5.94	99.56	109.24
1	O	407	TRP	N-CA-C	-5.94	99.56	109.24

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	7	407	TRP	N-CA-C	-5.94	99.56	109.24
1	j	407	TRP	N-CA-C	-5.94	99.56	109.24
1	g	407	TRP	N-CA-C	-5.94	99.56	109.24
1	U	407	TRP	N-CA-C	-5.93	99.57	109.24
1	B	192	MET	N-CA-C	-5.52	99.09	108.26
1	a	192	MET	N-CA-C	-5.52	99.09	108.26
1	c	192	MET	N-CA-C	-5.52	99.09	108.26
1	X	192	MET	N-CA-C	-5.52	99.10	108.26
1	r	192	MET	N-CA-C	-5.52	99.10	108.26
1	4	192	MET	N-CA-C	-5.51	99.12	108.26
1	b	192	MET	N-CA-C	-5.51	99.12	108.26
1	e	192	MET	N-CA-C	-5.51	99.12	108.26
1	2	192	MET	N-CA-C	-5.50	99.12	108.26
1	P	192	MET	N-CA-C	-5.50	99.13	108.26
1	G	192	MET	N-CA-C	-5.50	99.13	108.26
1	T	192	MET	N-CA-C	-5.50	99.13	108.26
1	i	192	MET	N-CA-C	-5.50	99.13	108.26
1	j	192	MET	N-CA-C	-5.50	99.13	108.26
1	u	192	MET	N-CA-C	-5.50	99.13	108.26
1	C	192	MET	N-CA-C	-5.50	99.14	108.26
1	O	192	MET	N-CA-C	-5.50	99.14	108.26
1	W	192	MET	N-CA-C	-5.50	99.14	108.26
1	w	192	MET	N-CA-C	-5.50	99.14	108.26
1	1	192	MET	N-CA-C	-5.49	99.14	108.26
1	M	192	MET	N-CA-C	-5.49	99.14	108.26
1	F	192	MET	N-CA-C	-5.49	99.15	108.26
1	v	192	MET	N-CA-C	-5.49	99.15	108.26
1	A	192	MET	N-CA-C	-5.49	99.15	108.26
1	E	192	MET	N-CA-C	-5.49	99.15	108.26
1	I	192	MET	N-CA-C	-5.49	99.15	108.26
1	J	192	MET	N-CA-C	-5.49	99.15	108.26
1	U	192	MET	N-CA-C	-5.49	99.15	108.26
1	3	192	MET	N-CA-C	-5.49	99.15	108.26
1	6	192	MET	N-CA-C	-5.49	99.15	108.26
1	d	192	MET	N-CA-C	-5.49	99.15	108.26
1	f	192	MET	N-CA-C	-5.49	99.15	108.26
1	p	192	MET	N-CA-C	-5.49	99.15	108.26
1	t	192	MET	N-CA-C	-5.49	99.15	108.26
1	z	192	MET	N-CA-C	-5.49	99.15	108.26
1	7	192	MET	N-CA-C	-5.49	99.15	108.26
1	0	192	MET	N-CA-C	-5.49	99.15	108.26
1	D	192	MET	N-CA-C	-5.48	99.16	108.26

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	H	192	MET	N-CA-C	-5.48	99.16	108.26
1	S	192	MET	N-CA-C	-5.48	99.16	108.26
1	h	192	MET	N-CA-C	-5.48	99.16	108.26
1	m	192	MET	N-CA-C	-5.48	99.16	108.26
1	n	192	MET	N-CA-C	-5.48	99.16	108.26
1	x	192	MET	N-CA-C	-5.48	99.16	108.26
1	K	192	MET	N-CA-C	-5.48	99.16	108.26
1	N	192	MET	N-CA-C	-5.48	99.16	108.26
1	Q	192	MET	N-CA-C	-5.48	99.16	108.26
1	5	192	MET	N-CA-C	-5.48	99.16	108.26
1	q	192	MET	N-CA-C	-5.48	99.16	108.26
1	R	192	MET	N-CA-C	-5.48	99.16	108.26
1	Y	192	MET	N-CA-C	-5.48	99.17	108.26
1	Z	192	MET	N-CA-C	-5.48	99.17	108.26
1	g	192	MET	N-CA-C	-5.48	99.17	108.26
1	l	192	MET	N-CA-C	-5.48	99.17	108.26
1	L	192	MET	N-CA-C	-5.47	99.18	108.26
1	V	192	MET	N-CA-C	-5.47	99.18	108.26
1	s	192	MET	N-CA-C	-5.47	99.18	108.26
1	k	192	MET	N-CA-C	-5.47	99.19	108.26
1	o	192	MET	N-CA-C	-5.47	99.19	108.26
1	y	192	MET	N-CA-C	-5.45	99.21	108.26
1	D	238	ILE	N-CA-C	-5.27	101.00	108.58
1	M	238	ILE	N-CA-C	-5.26	101.00	108.58
1	F	238	ILE	N-CA-C	-5.25	101.03	108.58
1	N	238	ILE	N-CA-C	-5.25	101.03	108.58
1	h	238	ILE	N-CA-C	-5.25	101.03	108.58
1	m	238	ILE	N-CA-C	-5.25	101.03	108.58
1	x	238	ILE	N-CA-C	-5.25	101.03	108.58
1	z	238	ILE	N-CA-C	-5.25	101.03	108.58
1	X	238	ILE	N-CA-C	-5.25	101.03	108.58
1	r	238	ILE	N-CA-C	-5.25	101.03	108.58
1	I	238	ILE	N-CA-C	-5.24	101.03	108.58
1	K	238	ILE	N-CA-C	-5.24	101.03	108.58
1	5	238	ILE	N-CA-C	-5.24	101.03	108.58
1	f	238	ILE	N-CA-C	-5.24	101.03	108.58
1	q	238	ILE	N-CA-C	-5.24	101.03	108.58
1	7	238	ILE	N-CA-C	-5.24	101.04	108.58
1	g	238	ILE	N-CA-C	-5.24	101.04	108.58
1	l	238	ILE	N-CA-C	-5.24	101.04	108.58
1	n	238	ILE	N-CA-C	-5.24	101.04	108.58
1	0	238	ILE	N-CA-C	-5.24	101.04	108.58

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	C	238	ILE	N-CA-C	-5.23	101.05	108.58
1	E	238	ILE	N-CA-C	-5.23	101.05	108.58
1	H	238	ILE	N-CA-C	-5.23	101.05	108.58
1	J	238	ILE	N-CA-C	-5.23	101.05	108.58
1	2	238	ILE	N-CA-C	-5.23	101.05	108.58
1	6	238	ILE	N-CA-C	-5.23	101.05	108.58
1	d	238	ILE	N-CA-C	-5.23	101.05	108.58
1	o	238	ILE	N-CA-C	-5.23	101.05	108.58
1	7	238	ILE	CB-CA-C	-5.23	104.42	110.91
1	A	238	ILE	N-CA-C	-5.23	101.05	108.58
1	G	238	ILE	N-CA-C	-5.23	101.05	108.58
1	i	238	ILE	N-CA-C	-5.23	101.05	108.58
1	u	238	ILE	N-CA-C	-5.23	101.05	108.58
1	V	238	ILE	N-CA-C	-5.23	101.05	108.58
1	s	238	ILE	N-CA-C	-5.23	101.05	108.58
1	B	238	ILE	N-CA-C	-5.23	101.05	108.58
1	S	238	ILE	N-CA-C	-5.23	101.05	108.58
1	a	238	ILE	N-CA-C	-5.23	101.05	108.58
1	c	238	ILE	N-CA-C	-5.23	101.05	108.58
1	O	238	ILE	CB-CA-C	-5.22	104.43	110.91
1	3	238	ILE	N-CA-C	-5.22	101.06	108.58
1	n	238	ILE	CB-CA-C	-5.22	104.43	110.91
1	R	238	ILE	N-CA-C	-5.22	101.06	108.58
1	T	238	ILE	CB-CA-C	-5.22	104.44	110.91
1	U	238	ILE	CB-CA-C	-5.22	104.43	110.91
1	i	238	ILE	CB-CA-C	-5.22	104.44	110.91
1	u	238	ILE	CB-CA-C	-5.22	104.44	110.91
1	U	238	ILE	N-CA-C	-5.22	101.06	108.58
1	E	238	ILE	CB-CA-C	-5.21	104.44	110.91
1	O	238	ILE	N-CA-C	-5.21	101.07	108.58
1	T	238	ILE	N-CA-C	-5.21	101.07	108.58
1	W	238	ILE	N-CA-C	-5.21	101.07	108.58
1	4	238	ILE	N-CA-C	-5.21	101.07	108.58
1	j	238	ILE	N-CA-C	-5.21	101.07	108.58
1	t	238	ILE	N-CA-C	-5.21	101.07	108.58
1	v	238	ILE	N-CA-C	-5.21	101.07	108.58
1	w	238	ILE	N-CA-C	-5.21	101.07	108.58
1	Q	238	ILE	N-CA-C	-5.21	101.08	108.58
1	b	238	ILE	N-CA-C	-5.21	101.08	108.58
1	e	238	ILE	N-CA-C	-5.21	101.08	108.58
1	y	238	ILE	N-CA-C	-5.21	101.08	108.58
1	L	238	ILE	N-CA-C	-5.21	101.08	108.58

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	Y	238	ILE	N-CA-C	-5.21	101.08	108.58
1	Z	238	ILE	N-CA-C	-5.21	101.08	108.58
1	P	238	ILE	N-CA-C	-5.21	101.08	108.58
1	1	238	ILE	N-CA-C	-5.21	101.08	108.58
1	k	238	ILE	N-CA-C	-5.21	101.08	108.58
1	H	238	ILE	CB-CA-C	-5.21	104.45	110.91
1	J	238	ILE	CB-CA-C	-5.21	104.45	110.91
1	6	238	ILE	CB-CA-C	-5.21	104.45	110.91
1	d	238	ILE	CB-CA-C	-5.21	104.45	110.91
1	g	238	ILE	CB-CA-C	-5.21	104.46	110.91
1	l	238	ILE	CB-CA-C	-5.21	104.46	110.91
1	D	238	ILE	CB-CA-C	-5.20	104.46	110.91
1	R	238	ILE	CB-CA-C	-5.20	104.46	110.91
1	p	238	ILE	N-CA-C	-5.20	101.09	108.58
1	N	238	ILE	CB-CA-C	-5.20	104.46	110.91
1	W	238	ILE	CB-CA-C	-5.20	104.47	110.91
1	w	238	ILE	CB-CA-C	-5.20	104.47	110.91
1	L	238	ILE	CB-CA-C	-5.20	104.47	110.91
1	V	238	ILE	CB-CA-C	-5.20	104.47	110.91
1	X	238	ILE	CB-CA-C	-5.20	104.47	110.91
1	b	238	ILE	CB-CA-C	-5.20	104.47	110.91
1	e	238	ILE	CB-CA-C	-5.20	104.47	110.91
1	r	238	ILE	CB-CA-C	-5.20	104.47	110.91
1	s	238	ILE	CB-CA-C	-5.20	104.47	110.91
1	A	238	ILE	CB-CA-C	-5.19	104.47	110.91
1	G	238	ILE	CB-CA-C	-5.19	104.47	110.91
1	5	238	ILE	CB-CA-C	-5.19	104.47	110.91
1	q	238	ILE	CB-CA-C	-5.19	104.47	110.91
1	F	238	ILE	CB-CA-C	-5.19	104.48	110.91
1	S	238	ILE	CB-CA-C	-5.19	104.48	110.91
1	h	238	ILE	CB-CA-C	-5.19	104.48	110.91
1	k	238	ILE	CB-CA-C	-5.19	104.48	110.91
1	m	238	ILE	CB-CA-C	-5.19	104.48	110.91
1	o	238	ILE	CB-CA-C	-5.19	104.48	110.91
1	x	238	ILE	CB-CA-C	-5.19	104.48	110.91
1	z	238	ILE	CB-CA-C	-5.19	104.48	110.91
1	y	238	ILE	CB-CA-C	-5.18	104.48	110.91
1	K	238	ILE	CB-CA-C	-5.18	104.49	110.91
1	4	238	ILE	CB-CA-C	-5.18	104.49	110.91
1	j	238	ILE	CB-CA-C	-5.18	104.49	110.91
1	t	238	ILE	CB-CA-C	-5.18	104.49	110.91
1	v	238	ILE	CB-CA-C	-5.18	104.49	110.91

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	Y	238	ILE	CB-CA-C	-5.18	104.49	110.91
1	Z	238	ILE	CB-CA-C	-5.18	104.49	110.91
1	a	238	ILE	CB-CA-C	-5.18	104.49	110.91
1	c	238	ILE	CB-CA-C	-5.18	104.49	110.91
1	p	238	ILE	CB-CA-C	-5.18	104.49	110.91
1	0	238	ILE	CB-CA-C	-5.18	104.49	110.91
1	B	238	ILE	CB-CA-C	-5.17	104.50	110.91
1	C	238	ILE	CB-CA-C	-5.17	104.50	110.91
1	P	238	ILE	CB-CA-C	-5.17	104.50	110.91
1	Q	238	ILE	CB-CA-C	-5.17	104.50	110.91
1	M	238	ILE	CB-CA-C	-5.17	104.50	110.91
1	3	238	ILE	CB-CA-C	-5.17	104.50	110.91
1	2	238	ILE	CB-CA-C	-5.16	104.51	110.91
1	1	238	ILE	CB-CA-C	-5.16	104.51	110.91
1	I	238	ILE	CB-CA-C	-5.14	104.53	110.91
1	f	238	ILE	CB-CA-C	-5.14	104.53	110.91

There are no chirality outliers.

All (60) planarity outliers are listed below:

Mol	Chain	Res	Type	Group
1	0	480	PRO	Peptide
1	1	480	PRO	Peptide
1	2	480	PRO	Peptide
1	3	480	PRO	Peptide
1	4	480	PRO	Peptide
1	5	480	PRO	Peptide
1	6	480	PRO	Peptide
1	7	480	PRO	Peptide
1	A	480	PRO	Peptide
1	B	480	PRO	Peptide
1	C	480	PRO	Peptide
1	D	480	PRO	Peptide
1	E	480	PRO	Peptide
1	F	480	PRO	Peptide
1	G	480	PRO	Peptide
1	H	480	PRO	Peptide
1	I	480	PRO	Peptide
1	J	480	PRO	Peptide
1	K	480	PRO	Peptide
1	L	480	PRO	Peptide
1	M	480	PRO	Peptide

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Mol	Chain	Res	Type	Group
1	N	480	PRO	Peptide
1	O	480	PRO	Peptide
1	P	480	PRO	Peptide
1	Q	480	PRO	Peptide
1	R	480	PRO	Peptide
1	S	480	PRO	Peptide
1	T	480	PRO	Peptide
1	U	480	PRO	Peptide
1	V	480	PRO	Peptide
1	W	480	PRO	Peptide
1	X	480	PRO	Peptide
1	Y	480	PRO	Peptide
1	Z	480	PRO	Peptide
1	a	480	PRO	Peptide
1	b	480	PRO	Peptide
1	c	480	PRO	Peptide
1	d	480	PRO	Peptide
1	e	480	PRO	Peptide
1	f	480	PRO	Peptide
1	g	480	PRO	Peptide
1	h	480	PRO	Peptide
1	i	480	PRO	Peptide
1	j	480	PRO	Peptide
1	k	480	PRO	Peptide
1	l	480	PRO	Peptide
1	m	480	PRO	Peptide
1	n	480	PRO	Peptide
1	o	480	PRO	Peptide
1	p	480	PRO	Peptide
1	q	480	PRO	Peptide
1	r	480	PRO	Peptide
1	s	480	PRO	Peptide
1	t	480	PRO	Peptide
1	u	480	PRO	Peptide
1	v	480	PRO	Peptide
1	w	480	PRO	Peptide
1	x	480	PRO	Peptide
1	y	480	PRO	Peptide
1	z	480	PRO	Peptide

5.2 Too-close contacts (i)

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

Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	0	4353	0	4079	224	0
1	1	4353	0	4079	216	0
1	2	4353	0	4079	220	0
1	3	4353	0	4079	216	0
1	4	4353	0	4079	216	0
1	5	4353	0	4079	220	0
1	6	4353	0	4079	217	0
1	7	4353	0	4079	220	0
1	A	4353	0	4079	210	0
1	B	4353	0	4079	214	0
1	C	4353	0	4079	220	0
1	D	4353	0	4079	216	0
1	E	4353	0	4079	217	0
1	F	4353	0	4079	214	0
1	G	4353	0	4079	220	0
1	H	4353	0	4079	212	0
1	I	4353	0	4079	217	0
1	J	4353	0	4079	217	0
1	K	4353	0	4079	221	0
1	L	4353	0	4079	218	0
1	M	4353	0	4079	215	0
1	N	4353	0	4079	216	0
1	O	4353	0	4079	220	0
1	P	4353	0	4079	216	0
1	Q	4353	0	4079	215	0
1	R	4353	0	4079	217	0
1	S	4353	0	4079	220	0
1	T	4353	0	4079	214	0
1	U	4353	0	4079	219	0
1	V	4353	0	4079	225	0
1	W	4353	0	4079	220	0
1	X	4353	0	4079	215	0
1	Y	4353	0	4079	217	0
1	Z	4353	0	4079	214	0
1	a	4353	0	4079	212	0
1	b	4353	0	4079	217	0
1	c	4353	0	4079	220	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	d	4353	0	4079	215	0
1	e	4353	0	4079	220	0
1	f	4353	0	4079	215	0
1	g	4353	0	4079	217	0
1	h	4353	0	4079	216	0
1	i	4353	0	4079	216	0
1	j	4353	0	4079	215	0
1	k	4353	0	4079	222	0
1	l	4353	0	4079	217	0
1	m	4353	0	4079	218	0
1	n	4353	0	4079	221	0
1	o	4353	0	4079	219	0
1	p	4353	0	4079	220	0
1	q	4353	0	4079	215	0
1	r	4353	0	4079	217	0
1	s	4353	0	4079	217	0
1	t	4353	0	4079	216	0
1	u	4353	0	4079	213	0
1	v	4353	0	4079	223	0
1	w	4353	0	4079	219	0
1	x	4353	0	4079	213	0
1	y	4353	0	4079	220	0
1	z	4353	0	4079	221	0
All	All	261180	0	244740	10570	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 21.

All (10570) 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:S:272:THR:HG22	1:S:474:ILE:O	1.39	1.23
1:3:272:THR:HG22	1:3:474:ILE:O	1.39	1.23
1:f:272:THR:HG22	1:f:474:ILE:O	1.39	1.22
1:z:272:THR:HG22	1:z:474:ILE:O	1.39	1.22
1:w:272:THR:HG22	1:w:474:ILE:O	1.39	1.22
1:W:272:THR:HG22	1:W:474:ILE:O	1.39	1.22
1:s:272:THR:HG22	1:s:474:ILE:O	1.39	1.22
1:I:272:THR:HG22	1:I:474:ILE:O	1.39	1.22
1:P:272:THR:HG22	1:P:474:ILE:O	1.39	1.22
1:g:272:THR:HG22	1:g:474:ILE:O	1.39	1.22

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:l:272:THR:HG22	1:l:474:ILE:O	1.39	1.22
1:0:272:THR:HG22	1:0:474:ILE:O	1.39	1.22
1:V:272:THR:HG22	1:V:474:ILE:O	1.39	1.21
1:t:272:THR:HG22	1:t:474:ILE:O	1.39	1.21
1:k:272:THR:HG22	1:k:474:ILE:O	1.39	1.21
1:H:272:THR:HG22	1:H:474:ILE:O	1.39	1.21
1:O:272:THR:HG22	1:O:474:ILE:O	1.39	1.21
1:x:272:THR:HG22	1:x:474:ILE:O	1.39	1.21
1:Y:272:THR:HG22	1:Y:474:ILE:O	1.39	1.20
1:X:272:THR:HG22	1:X:474:ILE:O	1.39	1.20
1:a:272:THR:HG22	1:a:474:ILE:O	1.40	1.20
1:o:272:THR:HG22	1:o:474:ILE:O	1.39	1.20
1:B:272:THR:HG22	1:B:474:ILE:O	1.40	1.20
1:U:272:THR:HG22	1:U:474:ILE:O	1.39	1.20
1:Z:272:THR:HG22	1:Z:474:ILE:O	1.39	1.20
1:F:272:THR:HG22	1:F:474:ILE:O	1.40	1.20
1:G:272:THR:HG22	1:G:474:ILE:O	1.40	1.20
1:1:272:THR:HG22	1:1:474:ILE:O	1.39	1.20
1:7:272:THR:HG22	1:7:474:ILE:O	1.40	1.20
1:q:272:THR:HG22	1:q:474:ILE:O	1.39	1.19
1:v:272:THR:HG22	1:v:474:ILE:O	1.40	1.19
1:E:272:THR:HG22	1:E:474:ILE:O	1.39	1.19
1:p:272:THR:HG22	1:p:474:ILE:O	1.39	1.19
1:D:272:THR:HG22	1:D:474:ILE:O	1.39	1.19
1:Q:272:THR:HG22	1:Q:474:ILE:O	1.39	1.19
1:i:272:THR:HG22	1:i:474:ILE:O	1.39	1.18
1:L:272:THR:HG22	1:L:474:ILE:O	1.39	1.18
1:b:272:THR:HG22	1:b:474:ILE:O	1.39	1.18
1:e:272:THR:HG22	1:e:474:ILE:O	1.39	1.18
1:n:272:THR:HG22	1:n:474:ILE:O	1.39	1.18
1:u:272:THR:HG22	1:u:474:ILE:O	1.39	1.18
1:A:272:THR:HG22	1:A:474:ILE:O	1.39	1.18
1:J:272:THR:HG22	1:J:474:ILE:O	1.39	1.18
1:T:272:THR:HG22	1:T:474:ILE:O	1.39	1.18
1:2:272:THR:HG22	1:2:474:ILE:O	1.39	1.18
1:5:272:THR:HG22	1:5:474:ILE:O	1.39	1.18
1:6:272:THR:HG22	1:6:474:ILE:O	1.40	1.18
1:C:272:THR:HG22	1:C:474:ILE:O	1.40	1.17
1:K:272:THR:HG22	1:K:474:ILE:O	1.39	1.17
1:4:272:THR:HG22	1:4:474:ILE:O	1.40	1.17
1:c:272:THR:HG22	1:c:474:ILE:O	1.40	1.17

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:d:272:THR:HG22	1:d:474:ILE:O	1.40	1.17
1:j:272:THR:HG22	1:j:474:ILE:O	1.40	1.17
1:M:272:THR:HG22	1:M:474:ILE:O	1.40	1.17
1:r:272:THR:HG22	1:r:474:ILE:O	1.39	1.17
1:N:272:THR:HG22	1:N:474:ILE:O	1.40	1.16
1:m:272:THR:HG22	1:m:474:ILE:O	1.39	1.16
1:y:272:THR:HG22	1:y:474:ILE:O	1.40	1.16
1:R:272:THR:HG22	1:R:474:ILE:O	1.39	1.16
1:h:272:THR:HG22	1:h:474:ILE:O	1.39	1.16
1:F:459:PRO:HB3	1:Q:569:MET:HE2	1.33	1.09
1:E:569:MET:HE2	1:Q:459:PRO:HB3	1.34	1.08
1:D:459:PRO:HB3	1:P:569:MET:HE2	1.36	1.07
1:6:569:MET:HE2	1:b:459:PRO:HB3	1.36	1.07
1:q:459:PRO:HB3	1:s:569:MET:HE2	1.36	1.07
1:H:459:PRO:HB3	1:Y:569:MET:HE2	1.36	1.07
1:J:569:MET:HE2	1:L:459:PRO:HB3	1.36	1.07
1:O:459:PRO:HB3	1:h:569:MET:HE2	1.36	1.07
1:Z:569:MET:HE2	1:x:459:PRO:HB3	1.36	1.07
1:c:569:MET:HE2	1:d:459:PRO:HB3	1.36	1.07
1:k:459:PRO:HB3	1:m:569:MET:HE2	1.36	1.07
1:H:569:MET:HE2	1:W:459:PRO:HB3	1.36	1.07
1:V:459:PRO:HB3	1:X:569:MET:HE2	1.37	1.07
1:1:569:MET:HE2	1:0:459:PRO:HB3	1.37	1.07
1:A:459:PRO:HB3	1:I:569:MET:HE2	1.36	1.06
1:B:459:PRO:HB3	1:L:569:MET:HE2	1.36	1.06
1:B:569:MET:HE2	1:J:459:PRO:HB3	1.36	1.06
1:M:459:PRO:HB3	1:2:569:MET:HE2	1.36	1.06
1:6:459:PRO:HB3	1:a:569:MET:HE2	1.36	1.06
1:g:569:MET:HE2	1:h:459:PRO:HB3	1.36	1.06
1:n:569:MET:HE2	1:o:459:PRO:HB3	1.37	1.06
1:y:569:MET:HE2	1:z:459:PRO:HB3	1.36	1.06
1:A:569:MET:HE2	1:G:459:PRO:HB3	1.35	1.06
1:R:569:MET:HE2	1:S:459:PRO:HB3	1.36	1.06
1:a:459:PRO:HB3	1:b:569:MET:HE2	1.36	1.06
1:l:569:MET:HE2	1:m:459:PRO:HB3	1.36	1.06
1:w:459:PRO:HB3	1:x:569:MET:HE2	1.36	1.06
1:k:569:MET:HE2	1:l:459:PRO:HB3	1.36	1.06
1:C:459:PRO:HB3	1:M:569:MET:HE2	1.36	1.06
1:K:459:PRO:HB3	1:0:569:MET:HE2	1.36	1.06
1:O:569:MET:HE2	1:g:459:PRO:HB3	1.36	1.06
1:V:569:MET:HE2	1:5:459:PRO:HB3	1.36	1.06

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:569:MET:HE2	1:1:459:PRO:HB3	1.37	1.06
1:d:569:MET:HE2	1:e:459:PRO:HB3	1.36	1.06
1:r:569:MET:HE2	1:s:459:PRO:HB3	1.37	1.06
1:T:569:MET:HE2	1:4:459:PRO:HB3	1.36	1.05
1:X:459:PRO:HB3	1:5:569:MET:HE2	1.37	1.05
1:N:569:MET:HE2	1:P:459:PRO:HB3	1.37	1.05
1:i:569:MET:HE2	1:j:459:PRO:HB3	1.36	1.05
1:D:569:MET:HE2	1:N:459:PRO:HB3	1.37	1.05
1:3:459:PRO:HB3	1:j:569:MET:HE2	1.36	1.05
1:q:569:MET:HE2	1:r:459:PRO:HB3	1.37	1.05
1:t:569:MET:HE2	1:u:459:PRO:HB3	1.36	1.05
1:u:569:MET:HE2	1:v:459:PRO:HB3	1.36	1.05
1:4:569:MET:HE2	1:f:459:PRO:HB3	1.36	1.05
1:n:459:PRO:HB3	1:p:569:MET:HE2	1.36	1.04
1:W:569:MET:HE2	1:Y:459:PRO:HB3	1.36	1.04
1:z:569:MET:HE2	1:7:459:PRO:HB3	1.36	1.04
1:E:459:PRO:HB3	1:F:569:MET:HE2	1.37	1.04
1:Z:459:PRO:HB3	1:w:569:MET:HE2	1.36	1.04
1:o:569:MET:HE2	1:p:459:PRO:HB3	1.36	1.04
1:S:569:MET:HE2	1:U:459:PRO:HB3	1.36	1.03
1:T:459:PRO:HB3	1:f:569:MET:HE2	1.36	1.03
1:3:569:MET:HE2	1:i:459:PRO:HB3	1.36	1.03
1:c:459:PRO:HB3	1:e:569:MET:HE2	1.36	1.03
1:y:459:PRO:HB3	1:7:569:MET:HE2	1.36	1.03
1:C:569:MET:HE2	1:2:459:PRO:HB3	1.36	1.02
1:R:459:PRO:HB3	1:U:569:MET:HE2	1.36	1.02
1:G:569:MET:HE2	1:I:459:PRO:HB3	1.36	1.02
1:t:459:PRO:HB3	1:v:569:MET:HE2	1.36	1.02
1:M:116:ASN:O	1:M:191:ASN:ND2	1.97	0.98
1:d:116:ASN:O	1:d:191:ASN:ND2	1.97	0.98
1:R:116:ASN:O	1:R:191:ASN:ND2	1.97	0.98
1:W:116:ASN:O	1:W:191:ASN:ND2	1.97	0.98
1:2:116:ASN:O	1:2:191:ASN:ND2	1.97	0.98
1:c:116:ASN:O	1:c:191:ASN:ND2	1.97	0.98
1:w:116:ASN:O	1:w:191:ASN:ND2	1.97	0.98
1:y:116:ASN:O	1:y:191:ASN:ND2	1.96	0.98
1:z:116:ASN:O	1:z:191:ASN:ND2	1.97	0.98
1:U:116:ASN:O	1:U:191:ASN:ND2	1.97	0.98
1:o:116:ASN:O	1:o:191:ASN:ND2	1.97	0.98
1:F:116:ASN:O	1:F:191:ASN:ND2	1.97	0.98
1:S:116:ASN:O	1:S:191:ASN:ND2	1.97	0.98

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:X:116:ASN:O	1:X:191:ASN:ND2	1.97	0.98
1:7:116:ASN:O	1:7:191:ASN:ND2	1.97	0.98
1:1:116:ASN:O	1:1:191:ASN:ND2	1.97	0.98
1:u:116:ASN:O	1:u:191:ASN:ND2	1.97	0.98
1:A:116:ASN:O	1:A:191:ASN:ND2	1.97	0.98
1:4:116:ASN:O	1:4:191:ASN:ND2	1.97	0.98
1:j:116:ASN:O	1:j:191:ASN:ND2	1.97	0.98
1:E:116:ASN:O	1:E:191:ASN:ND2	1.97	0.98
1:Q:116:ASN:O	1:Q:191:ASN:ND2	1.97	0.98
1:V:116:ASN:O	1:V:191:ASN:ND2	1.97	0.98
1:e:116:ASN:O	1:e:191:ASN:ND2	1.97	0.98
1:n:116:ASN:O	1:n:191:ASN:ND2	1.97	0.98
1:0:116:ASN:O	1:0:191:ASN:ND2	1.97	0.98
1:C:116:ASN:O	1:C:191:ASN:ND2	1.97	0.97
1:O:116:ASN:O	1:O:191:ASN:ND2	1.97	0.97
1:T:116:ASN:O	1:T:191:ASN:ND2	1.97	0.97
1:i:116:ASN:O	1:i:191:ASN:ND2	1.97	0.97
1:p:116:ASN:O	1:p:191:ASN:ND2	1.97	0.97
1:h:116:ASN:O	1:h:191:ASN:ND2	1.97	0.97
1:k:116:ASN:O	1:k:191:ASN:ND2	1.97	0.97
1:m:116:ASN:O	1:m:191:ASN:ND2	1.97	0.97
1:D:116:ASN:O	1:D:191:ASN:ND2	1.97	0.97
1:G:116:ASN:O	1:G:191:ASN:ND2	1.97	0.97
1:f:116:ASN:O	1:f:191:ASN:ND2	1.97	0.97
1:s:116:ASN:O	1:s:191:ASN:ND2	1.97	0.97
1:q:116:ASN:O	1:q:191:ASN:ND2	1.97	0.97
1:r:116:ASN:O	1:r:191:ASN:ND2	1.97	0.97
1:v:116:ASN:O	1:v:191:ASN:ND2	1.97	0.97
1:N:116:ASN:O	1:N:191:ASN:ND2	1.97	0.97
1:P:116:ASN:O	1:P:191:ASN:ND2	1.97	0.97
1:3:116:ASN:O	1:3:191:ASN:ND2	1.97	0.97
1:a:116:ASN:O	1:a:191:ASN:ND2	1.97	0.97
1:B:116:ASN:O	1:B:191:ASN:ND2	1.97	0.97
1:H:116:ASN:O	1:H:191:ASN:ND2	1.97	0.96
1:5:116:ASN:O	1:5:191:ASN:ND2	1.97	0.96
1:K:116:ASN:O	1:K:191:ASN:ND2	1.97	0.96
1:g:116:ASN:O	1:g:191:ASN:ND2	1.97	0.96
1:x:116:ASN:O	1:x:191:ASN:ND2	1.97	0.96
1:b:116:ASN:O	1:b:191:ASN:ND2	1.97	0.96
1:I:116:ASN:O	1:I:191:ASN:ND2	1.97	0.96
1:L:116:ASN:O	1:L:191:ASN:ND2	1.97	0.96

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:l:116:ASN:O	1:l:191:ASN:ND2	1.97	0.96
1:t:116:ASN:O	1:t:191:ASN:ND2	1.97	0.96
1:J:116:ASN:O	1:J:191:ASN:ND2	1.97	0.96
1:6:116:ASN:O	1:6:191:ASN:ND2	1.97	0.96
1:Y:116:ASN:O	1:Y:191:ASN:ND2	1.97	0.95
1:G:335:SER:H	1:G:435:THR:HG22	1.32	0.95
1:Z:116:ASN:O	1:Z:191:ASN:ND2	1.97	0.95
1:6:335:SER:H	1:6:435:THR:HG22	1.32	0.95
1:J:335:SER:H	1:J:435:THR:HG22	1.32	0.95
1:v:335:SER:H	1:v:435:THR:HG22	1.32	0.95
1:H:335:SER:H	1:H:435:THR:HG22	1.32	0.95
1:X:335:SER:H	1:X:435:THR:HG22	1.32	0.95
1:1:335:SER:H	1:1:435:THR:HG22	1.32	0.94
1:4:335:SER:H	1:4:435:THR:HG22	1.32	0.94
1:j:335:SER:H	1:j:435:THR:HG22	1.32	0.94
1:x:335:SER:H	1:x:435:THR:HG22	1.32	0.94
1:t:335:SER:H	1:t:435:THR:HG22	1.32	0.94
1:C:335:SER:H	1:C:435:THR:HG22	1.32	0.94
1:E:335:SER:H	1:E:435:THR:HG22	1.32	0.94
1:a:335:SER:H	1:a:435:THR:HG22	1.32	0.94
1:q:335:SER:H	1:q:435:THR:HG22	1.32	0.94
1:F:335:SER:H	1:F:435:THR:HG22	1.32	0.94
1:b:335:SER:H	1:b:435:THR:HG22	1.32	0.94
1:D:335:SER:H	1:D:435:THR:HG22	1.32	0.94
1:L:335:SER:H	1:L:435:THR:HG22	1.32	0.94
1:e:335:SER:H	1:e:435:THR:HG22	1.32	0.94
1:o:335:SER:H	1:o:435:THR:HG22	1.32	0.94
1:I:335:SER:H	1:I:435:THR:HG22	1.32	0.94
1:M:335:SER:H	1:M:435:THR:HG22	1.32	0.94
1:p:335:SER:H	1:p:435:THR:HG22	1.32	0.94
1:B:335:SER:H	1:B:435:THR:HG22	1.32	0.94
1:z:335:SER:H	1:z:435:THR:HG22	1.32	0.94
1:S:335:SER:H	1:S:435:THR:HG22	1.32	0.94
1:V:335:SER:H	1:V:435:THR:HG22	1.32	0.94
1:Z:335:SER:H	1:Z:435:THR:HG22	1.32	0.94
1:d:335:SER:H	1:d:435:THR:HG22	1.32	0.94
1:O:335:SER:H	1:O:435:THR:HG22	1.32	0.93
1:l:335:SER:H	1:l:435:THR:HG22	1.32	0.93
1:n:335:SER:H	1:n:435:THR:HG22	1.32	0.93
1:0:335:SER:H	1:0:435:THR:HG22	1.32	0.93
1:A:335:SER:H	1:A:435:THR:HG22	1.32	0.93

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:335:SER:H	1:N:435:THR:HG22	1.32	0.93
1:Q:335:SER:H	1:Q:435:THR:HG22	1.32	0.93
1:r:335:SER:H	1:r:435:THR:HG22	1.32	0.93
1:7:335:SER:H	1:7:435:THR:HG22	1.32	0.93
1:U:335:SER:H	1:U:435:THR:HG22	1.32	0.93
1:Y:335:SER:H	1:Y:435:THR:HG22	1.32	0.93
1:3:335:SER:H	1:3:435:THR:HG22	1.32	0.93
1:f:335:SER:H	1:f:435:THR:HG22	1.32	0.93
1:k:335:SER:H	1:k:435:THR:HG22	1.32	0.93
1:g:335:SER:H	1:g:435:THR:HG22	1.32	0.93
1:u:335:SER:H	1:u:435:THR:HG22	1.32	0.93
1:c:335:SER:H	1:c:435:THR:HG22	1.32	0.92
1:K:335:SER:H	1:K:435:THR:HG22	1.32	0.92
1:T:335:SER:H	1:T:435:THR:HG22	1.32	0.92
1:W:335:SER:H	1:W:435:THR:HG22	1.32	0.92
1:5:335:SER:H	1:5:435:THR:HG22	1.32	0.92
1:2:335:SER:H	1:2:435:THR:HG22	1.32	0.92
1:i:335:SER:H	1:i:435:THR:HG22	1.32	0.92
1:R:335:SER:H	1:R:435:THR:HG22	1.32	0.91
1:w:335:SER:H	1:w:435:THR:HG22	1.32	0.91
1:m:335:SER:H	1:m:435:THR:HG22	1.32	0.91
1:s:335:SER:H	1:s:435:THR:HG22	1.32	0.91
1:y:335:SER:H	1:y:435:THR:HG22	1.32	0.91
1:P:335:SER:H	1:P:435:THR:HG22	1.32	0.91
1:h:335:SER:H	1:h:435:THR:HG22	1.32	0.91
1:K:272:THR:CG2	1:K:474:ILE:O	2.21	0.89
1:U:272:THR:CG2	1:U:474:ILE:O	2.21	0.89
1:7:272:THR:CG2	1:7:474:ILE:O	2.21	0.89
1:O:272:THR:CG2	1:O:474:ILE:O	2.21	0.89
1:R:272:THR:CG2	1:R:474:ILE:O	2.21	0.89
1:5:272:THR:CG2	1:5:474:ILE:O	2.21	0.89
1:k:272:THR:CG2	1:k:474:ILE:O	2.21	0.89
1:y:272:THR:CG2	1:y:474:ILE:O	2.21	0.89
1:Y:272:THR:CG2	1:Y:474:ILE:O	2.21	0.89
1:Z:272:THR:CG2	1:Z:474:ILE:O	2.21	0.89
1:2:272:THR:CG2	1:2:474:ILE:O	2.21	0.89
1:J:272:THR:CG2	1:J:474:ILE:O	2.21	0.89
1:L:272:THR:CG2	1:L:474:ILE:O	2.21	0.89
1:V:272:THR:CG2	1:V:474:ILE:O	2.21	0.89
1:3:272:THR:CG2	1:3:474:ILE:O	2.21	0.89
1:6:272:THR:CG2	1:6:474:ILE:O	2.21	0.89

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:b:272:THR:CG2	1:b:474:ILE:O	2.21	0.89
1:c:272:THR:CG2	1:c:474:ILE:O	2.21	0.89
1:0:272:THR:CG2	1:0:474:ILE:O	2.21	0.89
1:f:272:THR:CG2	1:f:474:ILE:O	2.21	0.89
1:F:272:THR:CG2	1:F:474:ILE:O	2.21	0.89
1:o:272:THR:CG2	1:o:474:ILE:O	2.21	0.89
1:S:272:THR:CG2	1:S:474:ILE:O	2.21	0.89
1:I:272:THR:CG2	1:I:474:ILE:O	2.21	0.89
1:T:272:THR:CG2	1:T:474:ILE:O	2.21	0.89
1:W:272:THR:CG2	1:W:474:ILE:O	2.21	0.89
1:i:272:THR:CG2	1:i:474:ILE:O	2.21	0.89
1:j:272:THR:CG2	1:j:474:ILE:O	2.21	0.89
1:t:272:THR:CG2	1:t:474:ILE:O	2.21	0.89
1:w:272:THR:CG2	1:w:474:ILE:O	2.21	0.89
1:z:272:THR:CG2	1:z:474:ILE:O	2.21	0.89
1:X:272:THR:CG2	1:X:474:ILE:O	2.21	0.88
1:1:272:THR:CG2	1:1:474:ILE:O	2.21	0.88
1:4:272:THR:CG2	1:4:474:ILE:O	2.21	0.88
1:h:272:THR:CG2	1:h:474:ILE:O	2.21	0.88
1:E:272:THR:CG2	1:E:474:ILE:O	2.21	0.88
1:l:272:THR:CG2	1:l:474:ILE:O	2.21	0.88
1:m:272:THR:CG2	1:m:474:ILE:O	2.21	0.88
1:e:272:THR:CG2	1:e:474:ILE:O	2.21	0.88
1:p:272:THR:CG2	1:p:474:ILE:O	2.21	0.88
1:q:272:THR:CG2	1:q:474:ILE:O	2.21	0.88
1:g:272:THR:CG2	1:g:474:ILE:O	2.21	0.88
1:C:272:THR:CG2	1:C:474:ILE:O	2.21	0.88
1:D:272:THR:CG2	1:D:474:ILE:O	2.21	0.88
1:N:272:THR:CG2	1:N:474:ILE:O	2.21	0.88
1:A:272:THR:CG2	1:A:474:ILE:O	2.21	0.88
1:H:272:THR:CG2	1:H:474:ILE:O	2.21	0.88
1:r:272:THR:CG2	1:r:474:ILE:O	2.21	0.88
1:G:272:THR:CG2	1:G:474:ILE:O	2.21	0.88
1:u:272:THR:CG2	1:u:474:ILE:O	2.21	0.88
1:v:272:THR:CG2	1:v:474:ILE:O	2.21	0.88
1:x:272:THR:CG2	1:x:474:ILE:O	2.21	0.88
1:d:272:THR:CG2	1:d:474:ILE:O	2.21	0.87
1:M:272:THR:CG2	1:M:474:ILE:O	2.21	0.87
1:B:272:THR:CG2	1:B:474:ILE:O	2.21	0.87
1:P:272:THR:CG2	1:P:474:ILE:O	2.21	0.87
1:Q:272:THR:CG2	1:Q:474:ILE:O	2.21	0.87

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:s:272:THR:CG2	1:s:474:ILE:O	2.21	0.87
1:n:272:THR:CG2	1:n:474:ILE:O	2.21	0.87
1:a:272:THR:CG2	1:a:474:ILE:O	2.21	0.87
1:p:200:ILE:HD11	1:p:203:ARG:HG3	1.60	0.84
1:Y:200:ILE:HD11	1:Y:203:ARG:HG3	1.60	0.84
1:Z:200:ILE:HD11	1:Z:203:ARG:HG3	1.60	0.84
1:P:200:ILE:HD11	1:P:203:ARG:HG3	1.60	0.84
1:E:200:ILE:HD11	1:E:203:ARG:HG3	1.60	0.84
1:r:200:ILE:HD11	1:r:203:ARG:HG3	1.60	0.84
1:s:200:ILE:HD11	1:s:203:ARG:HG3	1.60	0.84
1:N:200:ILE:HD11	1:N:203:ARG:HG3	1.60	0.84
1:O:200:ILE:HD11	1:O:203:ARG:HG3	1.60	0.84
1:i:200:ILE:HD11	1:i:203:ARG:HG3	1.60	0.84
1:B:200:ILE:HD11	1:B:203:ARG:HG3	1.60	0.84
1:T:200:ILE:HD11	1:T:203:ARG:HG3	1.60	0.84
1:L:200:ILE:HD11	1:L:203:ARG:HG3	1.60	0.83
1:2:200:ILE:HD11	1:2:203:ARG:HG3	1.60	0.83
1:5:200:ILE:HD11	1:5:203:ARG:HG3	1.60	0.83
1:a:200:ILE:HD11	1:a:203:ARG:HG3	1.60	0.83
1:k:200:ILE:HD11	1:k:203:ARG:HG3	1.60	0.83
1:z:200:ILE:HD11	1:z:203:ARG:HG3	1.60	0.83
1:K:200:ILE:HD11	1:K:203:ARG:HG3	1.60	0.83
1:b:200:ILE:HD11	1:b:203:ARG:HG3	1.60	0.83
1:J:200:ILE:HD11	1:J:203:ARG:HG3	1.60	0.83
1:S:200:ILE:HD11	1:S:203:ARG:HG3	1.60	0.83
1:6:200:ILE:HD11	1:6:203:ARG:HG3	1.60	0.83
1:c:200:ILE:HD11	1:c:203:ARG:HG3	1.60	0.83
1:u:200:ILE:HD11	1:u:203:ARG:HG3	1.60	0.83
1:A:200:ILE:HD11	1:A:203:ARG:HG3	1.60	0.83
1:y:200:ILE:HD11	1:y:203:ARG:HG3	1.60	0.83
1:m:200:ILE:HD11	1:m:203:ARG:HG3	1.60	0.83
1:R:200:ILE:HD11	1:R:203:ARG:HG3	1.60	0.83
1:d:200:ILE:HD11	1:d:203:ARG:HG3	1.60	0.83
1:M:200:ILE:HD11	1:M:203:ARG:HG3	1.60	0.83
1:V:200:ILE:HD11	1:V:203:ARG:HG3	1.60	0.83
1:h:200:ILE:HD11	1:h:203:ARG:HG3	1.60	0.83
1:l:200:ILE:HD11	1:l:203:ARG:HG3	1.60	0.83
1:I:200:ILE:HD11	1:I:203:ARG:HG3	1.60	0.83
1:g:200:ILE:HD11	1:g:203:ARG:HG3	1.60	0.83
1:0:200:ILE:HD11	1:0:203:ARG:HG3	1.60	0.82
1:4:200:ILE:HD11	1:4:203:ARG:HG3	1.60	0.82

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:t:200:ILE:HD11	1:t:203:ARG:HG3	1.60	0.82
1:j:200:ILE:HD11	1:j:203:ARG:HG3	1.60	0.82
1:n:200:ILE:HD11	1:n:203:ARG:HG3	1.60	0.82
1:o:200:ILE:HD11	1:o:203:ARG:HG3	1.60	0.82
1:F:200:ILE:HD11	1:F:203:ARG:HG3	1.60	0.82
1:Q:200:ILE:HD11	1:Q:203:ARG:HG3	1.60	0.82
1:U:200:ILE:HD11	1:U:203:ARG:HG3	1.60	0.82
1:7:200:ILE:HD11	1:7:203:ARG:HG3	1.60	0.82
1:G:200:ILE:HD11	1:G:203:ARG:HG3	1.60	0.81
1:H:200:ILE:HD11	1:H:203:ARG:HG3	1.60	0.81
1:3:200:ILE:HD11	1:3:203:ARG:HG3	1.60	0.81
1:x:200:ILE:HD11	1:x:203:ARG:HG3	1.60	0.81
1:W:200:ILE:HD11	1:W:203:ARG:HG3	1.60	0.81
1:f:200:ILE:HD11	1:f:203:ARG:HG3	1.60	0.81
1:v:200:ILE:HD11	1:v:203:ARG:HG3	1.60	0.81
1:w:200:ILE:HD11	1:w:203:ARG:HG3	1.60	0.81
1:1:200:ILE:HD11	1:1:203:ARG:HG3	1.60	0.81
1:X:200:ILE:HD11	1:X:203:ARG:HG3	1.60	0.81
1:D:200:ILE:HD11	1:D:203:ARG:HG3	1.60	0.81
1:C:200:ILE:HD11	1:C:203:ARG:HG3	1.60	0.80
1:q:200:ILE:HD11	1:q:203:ARG:HG3	1.60	0.80
1:e:200:ILE:HD11	1:e:203:ARG:HG3	1.60	0.80
1:t:283:SER:H	1:t:286:HIS:HD2	1.30	0.80
1:M:283:SER:H	1:M:286:HIS:HD2	1.30	0.79
1:I:283:SER:H	1:I:286:HIS:HD2	1.30	0.79
1:V:283:SER:H	1:V:286:HIS:HD2	1.30	0.79
1:E:283:SER:H	1:E:286:HIS:HD2	1.30	0.79
1:d:283:SER:H	1:d:286:HIS:HD2	1.31	0.79
1:R:431:ASP:HB3	1:R:433:HIS:CD2	2.18	0.79
1:2:431:ASP:HB3	1:2:433:HIS:CD2	2.18	0.79
1:c:431:ASP:HB3	1:c:433:HIS:CD2	2.18	0.79
1:l:283:SER:H	1:l:286:HIS:HD2	1.30	0.79
1:p:283:SER:H	1:p:286:HIS:HD2	1.30	0.79
1:y:431:ASP:HB3	1:y:433:HIS:CD2	2.18	0.79
1:0:283:SER:H	1:0:286:HIS:HD2	1.30	0.79
1:O:431:ASP:HB3	1:O:433:HIS:CD2	2.18	0.79
1:X:431:ASP:HB3	1:X:433:HIS:CD2	2.18	0.79
1:g:283:SER:H	1:g:286:HIS:HD2	1.30	0.79
1:t:431:ASP:HB3	1:t:433:HIS:CD2	2.18	0.79
1:x:431:ASP:HB3	1:x:433:HIS:CD2	2.18	0.79
1:H:431:ASP:HB3	1:H:433:HIS:CD2	2.18	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:431:ASP:HB3	1:I:433:HIS:CD2	2.18	0.79
1:1:431:ASP:HB3	1:1:433:HIS:CD2	2.18	0.79
1:k:431:ASP:HB3	1:k:433:HIS:CD2	2.18	0.79
1:r:431:ASP:HB3	1:r:433:HIS:CD2	2.18	0.79
1:z:431:ASP:HB3	1:z:433:HIS:CD2	2.18	0.79
1:M:431:ASP:HB3	1:M:433:HIS:CD2	2.18	0.79
1:N:431:ASP:HB3	1:N:433:HIS:CD2	2.18	0.79
1:P:431:ASP:HB3	1:P:433:HIS:CD2	2.18	0.79
1:S:431:ASP:HB3	1:S:433:HIS:CD2	2.18	0.79
1:d:431:ASP:HB3	1:d:433:HIS:CD2	2.18	0.79
1:h:431:ASP:HB3	1:h:433:HIS:CD2	2.18	0.79
1:k:283:SER:H	1:k:286:HIS:HD2	1.30	0.79
1:u:431:ASP:HB3	1:u:433:HIS:CD2	2.18	0.79
1:A:431:ASP:HB3	1:A:433:HIS:CD2	2.18	0.79
1:C:431:ASP:HB3	1:C:433:HIS:CD2	2.18	0.79
1:W:431:ASP:HB3	1:W:433:HIS:CD2	2.18	0.79
1:e:431:ASP:HB3	1:e:433:HIS:CD2	2.18	0.79
1:m:431:ASP:HB3	1:m:433:HIS:CD2	2.18	0.79
1:s:431:ASP:HB3	1:s:433:HIS:CD2	2.18	0.79
1:O:283:SER:H	1:O:286:HIS:HD2	1.30	0.79
1:U:431:ASP:HB3	1:U:433:HIS:CD2	2.18	0.79
1:w:431:ASP:HB3	1:w:433:HIS:CD2	2.18	0.79
1:E:431:ASP:HB3	1:E:433:HIS:CD2	2.18	0.78
1:T:431:ASP:HB3	1:T:433:HIS:CD2	2.18	0.78
1:Y:431:ASP:HB3	1:Y:433:HIS:CD2	2.18	0.78
1:i:431:ASP:HB3	1:i:433:HIS:CD2	2.18	0.78
1:7:431:ASP:HB3	1:7:433:HIS:CD2	2.18	0.78
1:B:431:ASP:HB3	1:B:433:HIS:CD2	2.18	0.78
1:p:431:ASP:HB3	1:p:433:HIS:CD2	2.18	0.78
1:D:431:ASP:HB3	1:D:433:HIS:CD2	2.18	0.78
1:X:283:SER:H	1:X:286:HIS:HD2	1.30	0.78
1:Z:431:ASP:HB3	1:Z:433:HIS:CD2	2.18	0.78
1:a:431:ASP:HB3	1:a:433:HIS:CD2	2.18	0.78
1:F:431:ASP:HB3	1:F:433:HIS:CD2	2.18	0.78
1:J:431:ASP:HB3	1:J:433:HIS:CD2	2.18	0.78
1:5:431:ASP:HB3	1:5:433:HIS:CD2	2.18	0.78
1:6:283:SER:H	1:6:286:HIS:HD2	1.31	0.78
1:q:431:ASP:HB3	1:q:433:HIS:CD2	2.18	0.78
1:J:283:SER:H	1:J:286:HIS:HD2	1.30	0.78
1:N:335:SER:OG	1:N:406:ASN:ND2	2.17	0.78
1:6:431:ASP:HB3	1:6:433:HIS:CD2	2.18	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:b:431:ASP:HB3	1:b:433:HIS:CD2	2.18	0.78
1:C:335:SER:OG	1:C:406:ASN:ND2	2.17	0.78
1:K:431:ASP:HB3	1:K:433:HIS:CD2	2.18	0.78
1:L:335:SER:OG	1:L:406:ASN:ND2	2.17	0.78
1:M:335:SER:OG	1:M:406:ASN:ND2	2.17	0.78
1:U:283:SER:H	1:U:286:HIS:HD2	1.30	0.78
1:1:283:SER:H	1:1:286:HIS:HD2	1.30	0.78
1:c:335:SER:OG	1:c:406:ASN:ND2	2.17	0.78
1:d:335:SER:OG	1:d:406:ASN:ND2	2.17	0.78
1:f:431:ASP:HB3	1:f:433:HIS:CD2	2.18	0.78
1:o:431:ASP:HB3	1:o:433:HIS:CD2	2.18	0.78
1:w:335:SER:OG	1:w:406:ASN:ND2	2.17	0.78
1:0:431:ASP:HB3	1:0:433:HIS:CD2	2.18	0.78
1:A:283:SER:H	1:A:286:HIS:HD2	1.30	0.78
1:L:431:ASP:HB3	1:L:433:HIS:CD2	2.18	0.78
1:Q:335:SER:OG	1:Q:406:ASN:ND2	2.17	0.78
1:T:335:SER:OG	1:T:406:ASN:ND2	2.17	0.78
1:W:335:SER:OG	1:W:406:ASN:ND2	2.17	0.78
1:Z:283:SER:H	1:Z:286:HIS:HD2	1.30	0.78
1:2:335:SER:OG	1:2:406:ASN:ND2	2.17	0.78
1:b:335:SER:OG	1:b:406:ASN:ND2	2.17	0.78
1:e:335:SER:OG	1:e:406:ASN:ND2	2.17	0.78
1:n:335:SER:OG	1:n:406:ASN:ND2	2.17	0.78
1:r:335:SER:OG	1:r:406:ASN:ND2	2.17	0.78
1:s:283:SER:H	1:s:286:HIS:HD2	1.30	0.78
1:G:283:SER:H	1:G:286:HIS:HD2	1.30	0.78
1:J:335:SER:OG	1:J:406:ASN:ND2	2.17	0.78
1:V:431:ASP:HB3	1:V:433:HIS:CD2	2.18	0.78
1:3:283:SER:H	1:3:286:HIS:HD2	1.30	0.78
1:3:431:ASP:HB3	1:3:433:HIS:CD2	2.18	0.78
1:6:335:SER:OG	1:6:406:ASN:ND2	2.17	0.78
1:i:335:SER:OG	1:i:406:ASN:ND2	2.17	0.78
1:u:283:SER:H	1:u:286:HIS:HD2	1.30	0.78
1:N:283:SER:H	1:N:286:HIS:HD2	1.30	0.78
1:P:335:SER:OG	1:P:406:ASN:ND2	2.17	0.78
1:f:283:SER:H	1:f:286:HIS:HD2	1.30	0.78
1:l:431:ASP:HB3	1:l:433:HIS:CD2	2.18	0.78
1:n:431:ASP:HB3	1:n:433:HIS:CD2	2.18	0.78
1:r:283:SER:H	1:r:286:HIS:HD2	1.30	0.78
1:v:283:SER:H	1:v:286:HIS:HD2	1.30	0.78
1:7:283:SER:H	1:7:286:HIS:HD2	1.31	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:335:SER:OG	1:D:406:ASN:ND2	2.17	0.78
1:G:431:ASP:HB3	1:G:433:HIS:CD2	2.18	0.78
1:P:283:SER:H	1:P:286:HIS:HD2	1.30	0.78
1:Y:283:SER:H	1:Y:286:HIS:HD2	1.30	0.78
1:f:335:SER:OG	1:f:406:ASN:ND2	2.17	0.78
1:g:431:ASP:HB3	1:g:433:HIS:CD2	2.18	0.78
1:h:283:SER:H	1:h:286:HIS:HD2	1.30	0.78
1:q:335:SER:OG	1:q:406:ASN:ND2	2.17	0.78
1:t:335:SER:OG	1:t:406:ASN:ND2	2.17	0.78
1:I:335:SER:OG	1:I:406:ASN:ND2	2.17	0.77
1:Q:431:ASP:HB3	1:Q:433:HIS:CD2	2.18	0.77
1:V:335:SER:OG	1:V:406:ASN:ND2	2.17	0.77
1:3:335:SER:OG	1:3:406:ASN:ND2	2.17	0.77
1:s:335:SER:OG	1:s:406:ASN:ND2	2.17	0.77
1:v:431:ASP:HB3	1:v:433:HIS:CD2	2.18	0.77
1:0:335:SER:OG	1:0:406:ASN:ND2	2.17	0.77
1:R:335:SER:OG	1:R:406:ASN:ND2	2.17	0.77
1:U:335:SER:OG	1:U:406:ASN:ND2	2.17	0.77
1:g:335:SER:OG	1:g:406:ASN:ND2	2.17	0.77
1:z:335:SER:OG	1:z:406:ASN:ND2	2.17	0.77
1:L:287:THR:HG23	1:L:569:MET:HG2	1.67	0.77
1:O:287:THR:HG23	1:O:569:MET:HG2	1.67	0.77
1:R:287:THR:HG23	1:R:569:MET:HG2	1.67	0.77
1:4:335:SER:OG	1:4:406:ASN:ND2	2.17	0.77
1:b:283:SER:H	1:b:286:HIS:HD2	1.31	0.77
1:b:287:THR:HG23	1:b:569:MET:HG2	1.67	0.77
1:l:335:SER:OG	1:l:406:ASN:ND2	2.17	0.77
1:q:283:SER:H	1:q:286:HIS:HD2	1.30	0.77
1:s:287:THR:HG23	1:s:569:MET:HG2	1.67	0.77
1:y:335:SER:OG	1:y:406:ASN:ND2	2.17	0.77
1:7:335:SER:OG	1:7:406:ASN:ND2	2.17	0.77
1:K:283:SER:H	1:K:286:HIS:HD2	1.30	0.77
1:W:287:THR:HG23	1:W:569:MET:HG2	1.67	0.77
1:5:283:SER:H	1:5:286:HIS:HD2	1.30	0.77
1:a:283:SER:H	1:a:286:HIS:HD2	1.30	0.77
1:j:335:SER:OG	1:j:406:ASN:ND2	2.17	0.77
1:k:287:THR:HG23	1:k:569:MET:HG2	1.67	0.77
1:m:283:SER:H	1:m:286:HIS:HD2	1.30	0.77
1:w:287:THR:HG23	1:w:569:MET:HG2	1.67	0.77
1:G:335:SER:OG	1:G:406:ASN:ND2	2.17	0.77
1:K:335:SER:OG	1:K:406:ASN:ND2	2.17	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:P:287:THR:HG23	1:P:569:MET:HG2	1.67	0.77
1:S:335:SER:OG	1:S:406:ASN:ND2	2.17	0.77
1:T:287:THR:HG23	1:T:569:MET:HG2	1.67	0.77
1:4:283:SER:H	1:4:286:HIS:HD2	1.30	0.77
1:a:335:SER:OG	1:a:406:ASN:ND2	2.17	0.77
1:r:287:THR:HG23	1:r:569:MET:HG2	1.67	0.77
1:v:335:SER:OG	1:v:406:ASN:ND2	2.17	0.77
1:y:287:THR:HG23	1:y:569:MET:HG2	1.67	0.77
1:B:335:SER:OG	1:B:406:ASN:ND2	2.17	0.77
1:D:283:SER:H	1:D:286:HIS:HD2	1.30	0.77
1:N:287:THR:HG23	1:N:569:MET:HG2	1.67	0.77
1:Q:287:THR:HG23	1:Q:569:MET:HG2	1.67	0.77
1:c:283:SER:H	1:c:286:HIS:HD2	1.30	0.77
1:i:287:THR:HG23	1:i:569:MET:HG2	1.67	0.77
1:L:283:SER:H	1:L:286:HIS:HD2	1.31	0.77
1:X:287:THR:HG23	1:X:569:MET:HG2	1.67	0.77
1:4:431:ASP:HB3	1:4:433:HIS:CD2	2.18	0.77
1:5:335:SER:OG	1:5:406:ASN:ND2	2.17	0.77
1:j:283:SER:H	1:j:286:HIS:HD2	1.30	0.77
1:j:431:ASP:HB3	1:j:433:HIS:CD2	2.18	0.77
1:n:287:THR:HG23	1:n:569:MET:HG2	1.67	0.77
1:B:283:SER:H	1:B:286:HIS:HD2	1.30	0.77
1:H:335:SER:OG	1:H:406:ASN:ND2	2.17	0.77
1:Y:335:SER:OG	1:Y:406:ASN:ND2	2.17	0.77
1:Z:335:SER:OG	1:Z:406:ASN:ND2	2.17	0.77
1:4:287:THR:HG23	1:4:569:MET:HG2	1.67	0.77
1:i:283:SER:H	1:i:286:HIS:HD2	1.30	0.77
1:n:283:SER:H	1:n:286:HIS:HD2	1.30	0.77
1:x:335:SER:OG	1:x:406:ASN:ND2	2.17	0.77
1:E:335:SER:OG	1:E:406:ASN:ND2	2.17	0.77
1:I:287:THR:HG23	1:I:569:MET:HG2	1.67	0.77
1:1:287:THR:HG23	1:1:569:MET:HG2	1.67	0.77
1:o:217:TRP:CE2	1:o:239:ARG:HD2	2.20	0.77
1:L:217:TRP:CE2	1:L:239:ARG:HD2	2.20	0.77
1:Z:217:TRP:CE2	1:Z:239:ARG:HD2	2.20	0.77
1:2:283:SER:H	1:2:286:HIS:HD2	1.30	0.77
1:h:335:SER:OG	1:h:406:ASN:ND2	2.17	0.77
1:j:287:THR:HG23	1:j:569:MET:HG2	1.67	0.77
1:p:335:SER:OG	1:p:406:ASN:ND2	2.17	0.77
1:q:217:TRP:CE2	1:q:239:ARG:HD2	2.20	0.77
1:u:217:TRP:CE2	1:u:239:ARG:HD2	2.20	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:217:TRP:CE2	1:A:239:ARG:HD2	2.21	0.76
1:A:447:ILE:HG22	1:A:472:PRO:HG3	1.68	0.76
1:D:217:TRP:CE2	1:D:239:ARG:HD2	2.21	0.76
1:E:447:ILE:HG22	1:E:472:PRO:HG3	1.68	0.76
1:F:335:SER:OG	1:F:406:ASN:ND2	2.17	0.76
1:Q:283:SER:H	1:Q:286:HIS:HD2	1.30	0.76
1:T:217:TRP:CE2	1:T:239:ARG:HD2	2.20	0.76
1:T:283:SER:H	1:T:286:HIS:HD2	1.30	0.76
1:X:217:TRP:CE2	1:X:239:ARG:HD2	2.20	0.76
1:X:335:SER:OG	1:X:406:ASN:ND2	2.17	0.76
1:Y:217:TRP:CE2	1:Y:239:ARG:HD2	2.20	0.76
1:1:217:TRP:CE2	1:1:239:ARG:HD2	2.20	0.76
1:2:217:TRP:CE2	1:2:239:ARG:HD2	2.20	0.76
1:h:447:ILE:HG22	1:h:472:PRO:HG3	1.68	0.76
1:i:217:TRP:CE2	1:i:239:ARG:HD2	2.20	0.76
1:m:447:ILE:HG22	1:m:472:PRO:HG3	1.68	0.76
1:t:287:THR:HG23	1:t:569:MET:HG2	1.67	0.76
1:B:287:THR:HG23	1:B:569:MET:HG2	1.67	0.76
1:F:217:TRP:CE2	1:F:239:ARG:HD2	2.21	0.76
1:G:217:TRP:CE2	1:G:239:ARG:HD2	2.21	0.76
1:Q:217:TRP:CE2	1:Q:239:ARG:HD2	2.20	0.76
1:Q:447:ILE:HG22	1:Q:472:PRO:HG3	1.68	0.76
1:R:283:SER:H	1:R:286:HIS:HD2	1.30	0.76
1:S:283:SER:H	1:S:286:HIS:HD2	1.30	0.76
1:1:335:SER:OG	1:1:406:ASN:ND2	2.17	0.76
1:a:287:THR:HG23	1:a:569:MET:HG2	1.67	0.76
1:b:217:TRP:CE2	1:b:239:ARG:HD2	2.21	0.76
1:c:217:TRP:CE2	1:c:239:ARG:HD2	2.21	0.76
1:m:335:SER:OG	1:m:406:ASN:ND2	2.17	0.76
1:n:447:ILE:HG22	1:n:472:PRO:HG3	1.68	0.76
1:p:447:ILE:HG22	1:p:472:PRO:HG3	1.68	0.76
1:v:217:TRP:CE2	1:v:239:ARG:HD2	2.21	0.76
1:y:283:SER:H	1:y:286:HIS:HD2	1.31	0.76
1:A:39:THR:HG21	1:A:262:SER:HB3	1.68	0.76
1:O:335:SER:OG	1:O:406:ASN:ND2	2.17	0.76
1:U:447:ILE:HG22	1:U:472:PRO:HG3	1.68	0.76
1:l:39:THR:HG21	1:l:262:SER:HB3	1.68	0.76
1:n:217:TRP:CE2	1:n:239:ARG:HD2	2.21	0.76
1:u:447:ILE:HG22	1:u:472:PRO:HG3	1.68	0.76
1:7:447:ILE:HG22	1:7:472:PRO:HG3	1.68	0.76
1:A:335:SER:OG	1:A:406:ASN:ND2	2.17	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:217:TRP:CE2	1:C:239:ARG:HD2	2.21	0.76
1:H:217:TRP:CE2	1:H:239:ARG:HD2	2.21	0.76
1:R:217:TRP:CE2	1:R:239:ARG:HD2	2.21	0.76
1:S:447:ILE:HG22	1:S:472:PRO:HG3	1.68	0.76
1:T:39:THR:HG21	1:T:262:SER:HB3	1.68	0.76
1:Z:447:ILE:HG22	1:Z:472:PRO:HG3	1.68	0.76
1:5:217:TRP:CE2	1:5:239:ARG:HD2	2.20	0.76
1:e:217:TRP:CE2	1:e:239:ARG:HD2	2.21	0.76
1:g:39:THR:HG21	1:g:262:SER:HB3	1.68	0.76
1:h:217:TRP:CE2	1:h:239:ARG:HD2	2.20	0.76
1:i:39:THR:HG21	1:i:262:SER:HB3	1.68	0.76
1:m:217:TRP:CE2	1:m:239:ARG:HD2	2.21	0.76
1:o:283:SER:H	1:o:286:HIS:HD2	1.30	0.76
1:o:335:SER:OG	1:o:406:ASN:ND2	2.17	0.76
1:u:39:THR:HG21	1:u:262:SER:HB3	1.68	0.76
1:u:335:SER:OG	1:u:406:ASN:ND2	2.17	0.76
1:x:217:TRP:CE2	1:x:239:ARG:HD2	2.21	0.76
1:y:217:TRP:CE2	1:y:239:ARG:HD2	2.21	0.76
1:K:217:TRP:CE2	1:K:239:ARG:HD2	2.20	0.76
1:R:39:THR:HG21	1:R:262:SER:HB3	1.68	0.76
1:S:217:TRP:CE2	1:S:239:ARG:HD2	2.21	0.76
1:3:217:TRP:CE2	1:3:239:ARG:HD2	2.21	0.76
1:e:287:THR:HG23	1:e:569:MET:HG2	1.67	0.76
1:k:335:SER:OG	1:k:406:ASN:ND2	2.17	0.76
1:q:447:ILE:HG22	1:q:472:PRO:HG3	1.68	0.76
1:w:217:TRP:CE2	1:w:239:ARG:HD2	2.20	0.76
1:y:39:THR:HG21	1:y:262:SER:HB3	1.68	0.76
1:z:447:ILE:HG22	1:z:472:PRO:HG3	1.68	0.76
1:C:283:SER:H	1:C:286:HIS:HD2	1.30	0.76
1:C:287:THR:HG23	1:C:569:MET:HG2	1.67	0.76
1:D:447:ILE:HG22	1:D:472:PRO:HG3	1.68	0.76
1:P:39:THR:HG21	1:P:262:SER:HB3	1.68	0.76
1:W:283:SER:H	1:W:286:HIS:HD2	1.30	0.76
1:Y:447:ILE:HG22	1:Y:472:PRO:HG3	1.68	0.76
1:f:217:TRP:CE2	1:f:239:ARG:HD2	2.21	0.76
1:p:39:THR:HG21	1:p:262:SER:HB3	1.68	0.76
1:w:283:SER:H	1:w:286:HIS:HD2	1.30	0.76
1:z:217:TRP:CE2	1:z:239:ARG:HD2	2.21	0.76
1:7:287:THR:HG23	1:7:569:MET:HG2	1.67	0.76
1:B:39:THR:HG21	1:B:262:SER:HB3	1.68	0.76
1:B:217:TRP:CE2	1:B:239:ARG:HD2	2.21	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:283:SER:H	1:F:286:HIS:HD2	1.30	0.76
1:P:217:TRP:CE2	1:P:239:ARG:HD2	2.20	0.76
1:U:287:THR:HG23	1:U:569:MET:HG2	1.67	0.76
1:V:39:THR:HG21	1:V:262:SER:HB3	1.68	0.76
1:W:217:TRP:CE2	1:W:239:ARG:HD2	2.20	0.76
1:a:39:THR:HG21	1:a:262:SER:HB3	1.68	0.76
1:s:39:THR:HG21	1:s:262:SER:HB3	1.68	0.76
1:s:217:TRP:CE2	1:s:239:ARG:HD2	2.20	0.76
1:z:283:SER:H	1:z:286:HIS:HD2	1.30	0.76
1:0:39:THR:HG21	1:0:262:SER:HB3	1.68	0.76
1:E:39:THR:HG21	1:E:262:SER:HB3	1.68	0.76
1:F:447:ILE:HG22	1:F:472:PRO:HG3	1.68	0.76
1:y:447:ILE:HG22	1:y:472:PRO:HG3	1.68	0.76
1:A:287:THR:HG23	1:A:569:MET:HG2	1.67	0.76
1:D:287:THR:HG23	1:D:569:MET:HG2	1.67	0.76
1:I:217:TRP:CE2	1:I:239:ARG:HD2	2.21	0.76
1:Z:39:THR:HG21	1:Z:262:SER:HB3	1.68	0.76
1:1:447:ILE:HG22	1:1:472:PRO:HG3	1.68	0.76
1:a:217:TRP:CE2	1:a:239:ARG:HD2	2.21	0.76
1:c:39:THR:HG21	1:c:262:SER:HB3	1.68	0.76
1:f:39:THR:HG21	1:f:262:SER:HB3	1.68	0.76
1:o:447:ILE:HG22	1:o:472:PRO:HG3	1.68	0.76
1:t:447:ILE:HG22	1:t:472:PRO:HG3	1.68	0.76
1:G:287:THR:HG23	1:G:569:MET:HG2	1.67	0.76
1:I:447:ILE:HG22	1:I:472:PRO:HG3	1.68	0.76
1:R:447:ILE:HG22	1:R:472:PRO:HG3	1.68	0.76
1:X:39:THR:HG21	1:X:262:SER:HB3	1.68	0.76
1:1:39:THR:HG21	1:1:262:SER:HB3	1.68	0.76
1:2:39:THR:HG21	1:2:262:SER:HB3	1.68	0.76
1:e:283:SER:H	1:e:286:HIS:HD2	1.31	0.76
1:n:39:THR:HG21	1:n:262:SER:HB3	1.68	0.76
1:q:287:THR:HG23	1:q:569:MET:HG2	1.67	0.76
1:r:447:ILE:HG22	1:r:472:PRO:HG3	1.68	0.76
1:t:217:TRP:CE2	1:t:239:ARG:HD2	2.21	0.76
1:x:283:SER:H	1:x:286:HIS:HD2	1.30	0.76
1:E:217:TRP:CE2	1:E:239:ARG:HD2	2.21	0.75
1:E:342:HIS:CE1	1:F:406:ASN:CG	2.64	0.75
1:Q:39:THR:HG21	1:Q:262:SER:HB3	1.68	0.75
1:S:39:THR:HG21	1:S:262:SER:HB3	1.68	0.75
1:X:447:ILE:HG22	1:X:472:PRO:HG3	1.68	0.75
1:Y:39:THR:HG21	1:Y:262:SER:HB3	1.68	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:3:39:THR:HG21	1:3:262:SER:HB3	1.68	0.75
1:p:217:TRP:CE2	1:p:239:ARG:HD2	2.21	0.75
1:u:287:THR:HG23	1:u:569:MET:HG2	1.67	0.75
1:v:287:THR:HG23	1:v:569:MET:HG2	1.67	0.75
1:H:287:THR:HG23	1:H:569:MET:HG2	1.67	0.75
1:T:447:ILE:HG22	1:T:472:PRO:HG3	1.68	0.75
1:3:287:THR:HG23	1:3:569:MET:HG2	1.67	0.75
1:f:287:THR:HG23	1:f:569:MET:HG2	1.67	0.75
1:z:39:THR:HG21	1:z:262:SER:HB3	1.68	0.75
1:z:287:THR:HG23	1:z:569:MET:HG2	1.67	0.75
1:J:217:TRP:CE2	1:J:239:ARG:HD2	2.20	0.75
1:M:217:TRP:CE2	1:M:239:ARG:HD2	2.21	0.75
1:N:217:TRP:CE2	1:N:239:ARG:HD2	2.20	0.75
1:N:447:ILE:HG22	1:N:472:PRO:HG3	1.68	0.75
1:c:447:ILE:HG22	1:c:472:PRO:HG3	1.68	0.75
1:d:217:TRP:CE2	1:d:239:ARG:HD2	2.21	0.75
1:g:217:TRP:CE2	1:g:239:ARG:HD2	2.20	0.75
1:r:217:TRP:CE2	1:r:239:ARG:HD2	2.20	0.75
1:x:287:THR:HG23	1:x:569:MET:HG2	1.67	0.75
1:x:447:ILE:HG22	1:x:472:PRO:HG3	1.68	0.75
1:C:447:ILE:HG22	1:C:472:PRO:HG3	1.68	0.75
1:H:283:SER:H	1:H:286:HIS:HD2	1.30	0.75
1:J:39:THR:HG21	1:J:262:SER:HB3	1.68	0.75
1:V:287:THR:HG23	1:V:569:MET:HG2	1.67	0.75
1:W:447:ILE:HG22	1:W:472:PRO:HG3	1.68	0.75
1:e:447:ILE:HG22	1:e:472:PRO:HG3	1.67	0.75
1:i:447:ILE:HG22	1:i:472:PRO:HG3	1.68	0.75
1:l:217:TRP:CE2	1:l:239:ARG:HD2	2.20	0.75
1:0:287:THR:HG23	1:0:569:MET:HG2	1.67	0.75
1:G:447:ILE:HG22	1:G:472:PRO:HG3	1.68	0.75
1:H:447:ILE:HG22	1:H:472:PRO:HG3	1.68	0.75
1:S:287:THR:HG23	1:S:569:MET:HG2	1.67	0.75
1:V:217:TRP:CE2	1:V:239:ARG:HD2	2.20	0.75
1:d:447:ILE:HG22	1:d:472:PRO:HG3	1.68	0.75
1:k:217:TRP:CE2	1:k:239:ARG:HD2	2.20	0.75
1:l:287:THR:HG23	1:l:569:MET:HG2	1.67	0.75
1:v:39:THR:HG21	1:v:262:SER:HB3	1.68	0.75
1:w:447:ILE:HG22	1:w:472:PRO:HG3	1.68	0.75
1:x:39:THR:HG21	1:x:262:SER:HB3	1.68	0.75
1:G:39:THR:HG21	1:G:262:SER:HB3	1.68	0.75
1:M:447:ILE:HG22	1:M:472:PRO:HG3	1.68	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:2:447:ILE:HG22	1:2:472:PRO:HG3	1.68	0.75
1:6:39:THR:HG21	1:6:262:SER:HB3	1.68	0.75
1:6:217:TRP:CE2	1:6:239:ARG:HD2	2.21	0.75
1:j:447:ILE:HG22	1:j:472:PRO:HG3	1.68	0.75
1:7:217:TRP:CE2	1:7:239:ARG:HD2	2.20	0.75
1:0:217:TRP:CE2	1:0:239:ARG:HD2	2.20	0.75
1:J:287:THR:HG23	1:J:569:MET:HG2	1.67	0.75
1:O:217:TRP:CE2	1:O:239:ARG:HD2	2.20	0.75
1:U:217:TRP:CE2	1:U:239:ARG:HD2	2.20	0.75
1:V:447:ILE:HG22	1:V:472:PRO:HG3	1.68	0.75
1:c:287:THR:HG23	1:c:569:MET:HG2	1.67	0.75
1:g:287:THR:HG23	1:g:569:MET:HG2	1.67	0.75
1:v:447:ILE:HG22	1:v:472:PRO:HG3	1.68	0.75
1:y:176:GLN:HE21	1:y:486:LYS:HE3	1.52	0.75
1:D:406:ASN:CG	1:N:342:HIS:CE1	2.65	0.75
1:H:39:THR:HG21	1:H:262:SER:HB3	1.68	0.75
1:R:176:GLN:HE21	1:R:486:LYS:HE3	1.52	0.75
1:U:176:GLN:HE21	1:U:486:LYS:HE3	1.52	0.75
1:2:287:THR:HG23	1:2:569:MET:HG2	1.67	0.75
1:3:176:GLN:HE21	1:3:486:LYS:HE3	1.52	0.75
1:4:447:ILE:HG22	1:4:472:PRO:HG3	1.68	0.75
1:o:287:THR:HG23	1:o:569:MET:HG2	1.67	0.75
1:q:406:ASN:CG	1:r:342:HIS:CE1	2.65	0.75
1:7:176:GLN:HE21	1:7:486:LYS:HE3	1.52	0.75
1:0:447:ILE:HG22	1:0:472:PRO:HG3	1.67	0.75
1:B:176:GLN:HE21	1:B:486:LYS:HE3	1.52	0.75
1:F:287:THR:HG23	1:F:569:MET:HG2	1.67	0.75
1:L:176:GLN:HE21	1:L:486:LYS:HE3	1.52	0.75
1:Z:287:THR:HG23	1:Z:569:MET:HG2	1.67	0.75
1:3:447:ILE:HG22	1:3:472:PRO:HG3	1.68	0.75
1:6:287:THR:HG23	1:6:569:MET:HG2	1.67	0.75
1:a:176:GLN:HE21	1:a:486:LYS:HE3	1.52	0.75
1:d:287:THR:HG23	1:d:569:MET:HG2	1.67	0.75
1:f:176:GLN:HE21	1:f:486:LYS:HE3	1.52	0.75
1:B:342:HIS:CE1	1:L:406:ASN:CG	2.65	0.74
1:K:176:GLN:HE21	1:K:486:LYS:HE3	1.52	0.74
1:K:342:HIS:CE1	1:0:406:ASN:CG	2.65	0.74
1:R:342:HIS:CE1	1:U:406:ASN:CG	2.65	0.74
1:V:406:ASN:CG	1:5:342:HIS:CE1	2.65	0.74
1:Y:287:THR:HG23	1:Y:569:MET:HG2	1.67	0.74
1:1:406:ASN:CG	1:0:342:HIS:CE1	2.65	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:a:342:HIS:CE1	1:b:406:ASN:CG	2.65	0.74
1:h:287:THR:HG23	1:h:569:MET:HG2	1.67	0.74
1:k:406:ASN:CG	1:l:342:HIS:CE1	2.65	0.74
1:m:287:THR:HG23	1:m:569:MET:HG2	1.67	0.74
1:n:342:HIS:CE1	1:p:406:ASN:CG	2.65	0.74
1:y:342:HIS:CE1	1:7:406:ASN:CG	2.65	0.74
1:A:176:GLN:HE21	1:A:486:LYS:HE3	1.52	0.74
1:C:176:GLN:HE21	1:C:486:LYS:HE3	1.52	0.74
1:D:342:HIS:CE1	1:P:406:ASN:CG	2.65	0.74
1:E:287:THR:HG23	1:E:569:MET:HG2	1.67	0.74
1:H:342:HIS:CE1	1:Y:406:ASN:CG	2.65	0.74
1:H:406:ASN:CG	1:W:342:HIS:CE1	2.65	0.74
1:N:406:ASN:CG	1:P:342:HIS:CE1	2.65	0.74
1:O:406:ASN:CG	1:g:342:HIS:CE1	2.65	0.74
1:O:447:ILE:HG22	1:O:472:PRO:HG3	1.68	0.74
1:V:342:HIS:CE1	1:X:406:ASN:CG	2.65	0.74
1:W:39:THR:HG21	1:W:262:SER:HB3	1.68	0.74
1:4:176:GLN:HE21	1:4:486:LYS:HE3	1.52	0.74
1:4:217:TRP:CE2	1:4:239:ARG:HD2	2.21	0.74
1:5:176:GLN:HE21	1:5:486:LYS:HE3	1.52	0.74
1:b:176:GLN:HE21	1:b:486:LYS:HE3	1.52	0.74
1:d:39:THR:HG21	1:d:262:SER:HB3	1.68	0.74
1:e:176:GLN:HE21	1:e:486:LYS:HE3	1.52	0.74
1:k:39:THR:HG21	1:k:262:SER:HB3	1.68	0.74
1:o:406:ASN:CG	1:p:342:HIS:CE1	2.65	0.74
1:r:406:ASN:CG	1:s:342:HIS:CE1	2.65	0.74
1:C:342:HIS:CE1	1:M:406:ASN:CG	2.65	0.74
1:D:39:THR:HG21	1:D:262:SER:HB3	1.68	0.74
1:G:406:ASN:CG	1:I:342:HIS:CE1	2.65	0.74
1:M:287:THR:HG23	1:M:569:MET:HG2	1.67	0.74
1:O:342:HIS:CE1	1:h:406:ASN:CG	2.65	0.74
1:S:176:GLN:HE21	1:S:486:LYS:HE3	1.52	0.74
1:f:447:ILE:HG22	1:f:472:PRO:HG3	1.68	0.74
1:j:217:TRP:CE2	1:j:239:ARG:HD2	2.20	0.74
1:k:342:HIS:CE1	1:m:406:ASN:CG	2.65	0.74
1:n:406:ASN:CG	1:o:342:HIS:CE1	2.65	0.74
1:p:287:THR:HG23	1:p:569:MET:HG2	1.67	0.74
1:q:342:HIS:CE1	1:s:406:ASN:CG	2.65	0.74
1:u:176:GLN:HE21	1:u:486:LYS:HE3	1.52	0.74
1:w:342:HIS:CE1	1:x:406:ASN:CG	2.65	0.74
1:J:406:ASN:CG	1:L:342:HIS:CE1	2.65	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:287:THR:HG23	1:K:569:MET:HG2	1.67	0.74
1:M:39:THR:HG21	1:M:262:SER:HB3	1.68	0.74
1:O:39:THR:HG21	1:O:262:SER:HB3	1.68	0.74
1:T:342:HIS:CE1	1:f:406:ASN:CG	2.65	0.74
1:T:406:ASN:CG	1:4:342:HIS:CE1	2.65	0.74
1:Z:342:HIS:CE1	1:w:406:ASN:CG	2.65	0.74
1:Z:406:ASN:CG	1:x:342:HIS:CE1	2.65	0.74
1:c:406:ASN:CG	1:d:342:HIS:CE1	2.66	0.74
1:g:447:ILE:HG22	1:g:472:PRO:HG3	1.68	0.74
1:i:406:ASN:CG	1:j:342:HIS:CE1	2.65	0.74
1:k:176:GLN:HE21	1:k:486:LYS:HE3	1.52	0.74
1:l:447:ILE:HG22	1:l:472:PRO:HG3	1.68	0.74
1:t:342:HIS:CE1	1:v:406:ASN:CG	2.65	0.74
1:z:176:GLN:HE21	1:z:486:LYS:HE3	1.52	0.74
1:B:406:ASN:CG	1:J:342:HIS:CE1	2.66	0.74
1:E:176:GLN:HE21	1:E:486:LYS:HE3	1.52	0.74
1:F:39:THR:HG21	1:F:262:SER:HB3	1.68	0.74
1:M:342:HIS:CE1	1:2:406:ASN:CG	2.66	0.74
1:W:406:ASN:CG	1:Y:342:HIS:CE1	2.65	0.74
1:3:406:ASN:CG	1:i:342:HIS:CE1	2.65	0.74
1:5:287:THR:HG23	1:5:569:MET:HG2	1.67	0.74
1:e:39:THR:HG21	1:e:262:SER:HB3	1.68	0.74
1:g:406:ASN:CG	1:h:342:HIS:CE1	2.65	0.74
1:j:176:GLN:HE21	1:j:486:LYS:HE3	1.52	0.74
1:k:447:ILE:HG22	1:k:472:PRO:HG3	1.68	0.74
1:l:406:ASN:CG	1:m:342:HIS:CE1	2.65	0.74
1:q:176:GLN:HE21	1:q:486:LYS:HE3	1.52	0.74
1:w:39:THR:HG21	1:w:262:SER:HB3	1.68	0.74
1:D:176:GLN:HE21	1:D:486:LYS:HE3	1.52	0.74
1:F:393:GLN:NE2	1:Q:318:SER:OG	2.20	0.74
1:K:39:THR:HG21	1:K:262:SER:HB3	1.68	0.74
1:K:447:ILE:HG22	1:K:472:PRO:HG3	1.68	0.74
1:O:176:GLN:HE21	1:O:486:LYS:HE3	1.52	0.74
1:S:406:ASN:CG	1:U:342:HIS:CE1	2.65	0.74
1:1:176:GLN:HE21	1:1:486:LYS:HE3	1.52	0.74
1:6:406:ASN:CG	1:b:342:HIS:CE1	2.66	0.74
1:b:39:THR:HG21	1:b:262:SER:HB3	1.68	0.74
1:d:406:ASN:CG	1:e:342:HIS:CE1	2.66	0.74
1:p:176:GLN:HE21	1:p:486:LYS:HE3	1.52	0.74
1:q:39:THR:HG21	1:q:262:SER:HB3	1.68	0.74
1:z:406:ASN:CG	1:7:342:HIS:CE1	2.65	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:39:THR:HG21	1:L:262:SER:HB3	1.68	0.74
1:R:406:ASN:CG	1:S:342:HIS:CE1	2.65	0.74
1:3:342:HIS:CE1	1:j:406:ASN:CG	2.65	0.74
1:5:447:ILE:HG22	1:5:472:PRO:HG3	1.68	0.74
1:6:342:HIS:CE1	1:a:406:ASN:CG	2.66	0.74
1:c:342:HIS:CE1	1:e:406:ASN:CG	2.65	0.74
1:o:39:THR:HG21	1:o:262:SER:HB3	1.68	0.74
1:t:39:THR:HG21	1:t:262:SER:HB3	1.68	0.74
1:t:406:ASN:CG	1:u:342:HIS:CE1	2.65	0.74
1:y:406:ASN:CG	1:z:342:HIS:CE1	2.65	0.74
1:C:39:THR:HG21	1:C:262:SER:HB3	1.68	0.74
1:C:406:ASN:CG	1:2:342:HIS:CE1	2.65	0.74
1:K:406:ASN:CG	1:1:342:HIS:CE1	2.65	0.74
1:4:406:ASN:CG	1:f:342:HIS:CE1	2.65	0.74
1:E:342:HIS:O	1:F:411:ASN:ND2	2.21	0.74
1:N:176:GLN:HE21	1:N:486:LYS:HE3	1.52	0.74
1:5:39:THR:HG21	1:5:262:SER:HB3	1.68	0.74
1:D:331:HIS:HE1	1:N:342:HIS:CD2	2.06	0.74
1:I:39:THR:HG21	1:I:262:SER:HB3	1.68	0.74
1:N:39:THR:HG21	1:N:262:SER:HB3	1.68	0.74
1:X:176:GLN:HE21	1:X:486:LYS:HE3	1.52	0.74
1:X:342:HIS:CE1	1:5:406:ASN:CG	2.65	0.74
1:X:342:HIS:CD2	1:5:331:HIS:HE1	2.06	0.74
1:6:447:ILE:HG22	1:6:472:PRO:HG3	1.68	0.74
1:a:447:ILE:HG22	1:a:472:PRO:HG3	1.68	0.74
1:r:39:THR:HG21	1:r:262:SER:HB3	1.68	0.74
1:r:176:GLN:HE21	1:r:486:LYS:HE3	1.52	0.74
1:B:447:ILE:HG22	1:B:472:PRO:HG3	1.67	0.73
1:I:176:GLN:HE21	1:I:486:LYS:HE3	1.52	0.73
1:J:176:GLN:HE21	1:J:486:LYS:HE3	1.52	0.73
1:K:331:HIS:HE1	1:1:342:HIS:CD2	2.06	0.73
1:N:331:HIS:HE1	1:P:342:HIS:CD2	2.06	0.73
1:j:39:THR:HG21	1:j:262:SER:HB3	1.68	0.73
1:q:331:HIS:HE1	1:r:342:HIS:CD2	2.06	0.73
1:s:447:ILE:HG22	1:s:472:PRO:HG3	1.68	0.73
1:t:176:GLN:HE21	1:t:486:LYS:HE3	1.52	0.73
1:0:176:GLN:HE21	1:0:486:LYS:HE3	1.52	0.73
1:E:342:HIS:CD2	1:F:331:HIS:HE1	2.06	0.73
1:L:447:ILE:HG22	1:L:472:PRO:HG3	1.68	0.73
1:P:447:ILE:HG22	1:P:472:PRO:HG3	1.68	0.73
1:T:331:HIS:HE1	1:4:342:HIS:CD2	2.06	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1:331:HIS:HE1	1:0:342:HIS:CD2	2.06	0.73
1:i:331:HIS:HE1	1:j:342:HIS:CD2	2.06	0.73
1:m:39:THR:HG21	1:m:262:SER:HB3	1.68	0.73
1:r:331:HIS:HE1	1:s:342:HIS:CD2	2.06	0.73
1:x:176:GLN:HE21	1:x:486:LYS:HE3	1.52	0.73
1:J:447:ILE:HG22	1:J:472:PRO:HG3	1.68	0.73
1:U:39:THR:HG21	1:U:262:SER:HB3	1.68	0.73
1:V:176:GLN:HE21	1:V:486:LYS:HE3	1.52	0.73
1:V:342:HIS:CD2	1:X:331:HIS:HE1	2.06	0.73
1:3:411:ASN:ND2	1:i:342:HIS:O	2.22	0.73
1:4:39:THR:HG21	1:4:262:SER:HB3	1.68	0.73
1:6:176:GLN:HE21	1:6:486:LYS:HE3	1.52	0.73
1:d:411:ASN:ND2	1:e:342:HIS:O	2.22	0.73
1:y:342:HIS:CD2	1:7:331:HIS:HE1	2.06	0.73
1:B:331:HIS:HE1	1:J:342:HIS:CD2	2.06	0.73
1:C:342:HIS:O	1:M:411:ASN:ND2	2.22	0.73
1:G:176:GLN:HE21	1:G:486:LYS:HE3	1.52	0.73
1:N:411:ASN:ND2	1:P:342:HIS:O	2.22	0.73
1:O:331:HIS:HE1	1:g:342:HIS:CD2	2.07	0.73
1:T:342:HIS:O	1:f:411:ASN:ND2	2.22	0.73
1:Z:342:HIS:CD2	1:w:331:HIS:HE1	2.07	0.73
1:6:331:HIS:HE1	1:b:342:HIS:CD2	2.07	0.73
1:6:342:HIS:CD2	1:a:331:HIS:HE1	2.06	0.73
1:b:447:ILE:HG22	1:b:472:PRO:HG3	1.67	0.73
1:h:39:THR:HG21	1:h:262:SER:HB3	1.68	0.73
1:o:331:HIS:HE1	1:p:342:HIS:CD2	2.06	0.73
1:r:411:ASN:ND2	1:s:342:HIS:O	2.22	0.73
1:u:331:HIS:HE1	1:v:342:HIS:CD2	2.06	0.73
1:u:406:ASN:CG	1:v:342:HIS:CE1	2.65	0.73
1:7:39:THR:HG21	1:7:262:SER:HB3	1.68	0.73
1:B:411:ASN:ND2	1:J:342:HIS:O	2.22	0.73
1:C:411:ASN:ND2	1:2:342:HIS:O	2.22	0.73
1:G:70:SER:O	1:G:504:ARG:NH2	2.22	0.73
1:H:176:GLN:HE21	1:H:486:LYS:HE3	1.52	0.73
1:J:331:HIS:HE1	1:L:342:HIS:CD2	2.07	0.73
1:P:176:GLN:HE21	1:P:486:LYS:HE3	1.52	0.73
1:R:342:HIS:CD2	1:U:331:HIS:HE1	2.06	0.73
1:R:342:HIS:O	1:U:411:ASN:ND2	2.22	0.73
1:W:176:GLN:HE21	1:W:486:LYS:HE3	1.52	0.73
1:W:331:HIS:HE1	1:Y:342:HIS:CD2	2.07	0.73
1:2:176:GLN:HE21	1:2:486:LYS:HE3	1.52	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:6:342:HIS:O	1:a:411:ASN:ND2	2.22	0.73
1:c:342:HIS:O	1:e:411:ASN:ND2	2.22	0.73
1:k:331:HIS:HE1	1:l:342:HIS:CD2	2.07	0.73
1:s:70:SER:O	1:s:504:ARG:NH2	2.22	0.73
1:s:176:GLN:HE21	1:s:486:LYS:HE3	1.52	0.73
1:v:70:SER:O	1:v:504:ARG:NH2	2.22	0.73
1:v:176:GLN:HE21	1:v:486:LYS:HE3	1.52	0.73
1:w:176:GLN:HE21	1:w:486:LYS:HE3	1.52	0.73
1:D:342:HIS:CD2	1:P:331:HIS:HE1	2.07	0.73
1:G:331:HIS:HE1	1:I:342:HIS:CD2	2.07	0.73
1:O:342:HIS:O	1:h:411:ASN:ND2	2.22	0.73
1:P:70:SER:O	1:P:504:ARG:NH2	2.22	0.73
1:T:176:GLN:HE21	1:T:486:LYS:HE3	1.52	0.73
1:T:342:HIS:CD2	1:f:331:HIS:HE1	2.07	0.73
1:W:70:SER:O	1:W:504:ARG:NH2	2.22	0.73
1:3:331:HIS:HE1	1:i:342:HIS:CD2	2.07	0.73
1:3:342:HIS:O	1:j:411:ASN:ND2	2.21	0.73
1:q:342:HIS:CD2	1:s:331:HIS:HE1	2.07	0.73
1:r:70:SER:O	1:r:504:ARG:NH2	2.22	0.73
1:t:342:HIS:CD2	1:v:331:HIS:HE1	2.07	0.73
1:w:70:SER:O	1:w:504:ARG:NH2	2.22	0.73
1:y:342:HIS:O	1:7:411:ASN:ND2	2.22	0.73
1:A:70:SER:O	1:A:504:ARG:NH2	2.22	0.73
1:C:331:HIS:HE1	1:2:342:HIS:CD2	2.07	0.73
1:F:176:GLN:HE21	1:F:486:LYS:HE3	1.52	0.73
1:J:70:SER:O	1:J:504:ARG:NH2	2.22	0.73
1:N:70:SER:O	1:N:504:ARG:NH2	2.22	0.73
1:c:176:GLN:HE21	1:c:486:LYS:HE3	1.52	0.73
1:k:342:HIS:O	1:m:411:ASN:ND2	2.22	0.73
1:o:70:SER:O	1:o:504:ARG:NH2	2.22	0.73
1:q:70:SER:O	1:q:504:ARG:NH2	2.22	0.73
1:x:70:SER:O	1:x:504:ARG:NH2	2.22	0.73
1:z:411:ASN:ND2	1:7:342:HIS:O	2.22	0.73
1:C:70:SER:O	1:C:504:ARG:NH2	2.22	0.73
1:D:70:SER:O	1:D:504:ARG:NH2	2.22	0.73
1:F:70:SER:O	1:F:504:ARG:NH2	2.22	0.73
1:F:371:GLN:NE2	1:Q:416:ASN:OD1	2.22	0.73
1:H:70:SER:O	1:H:504:ARG:NH2	2.22	0.73
1:M:342:HIS:CD2	1:2:331:HIS:HE1	2.07	0.73
1:S:411:ASN:ND2	1:U:342:HIS:O	2.22	0.73
1:Z:411:ASN:ND2	1:x:342:HIS:O	2.21	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:4:411:ASN:ND2	1:f:342:HIS:O	2.21	0.73
1:6:70:SER:O	1:6:504:ARG:NH2	2.22	0.73
1:c:331:HIS:HE1	1:d:342:HIS:CD2	2.06	0.73
1:e:70:SER:O	1:e:504:ARG:NH2	2.22	0.73
1:h:70:SER:O	1:h:504:ARG:NH2	2.22	0.73
1:i:176:GLN:HE21	1:i:486:LYS:HE3	1.52	0.73
1:n:176:GLN:HE21	1:n:486:LYS:HE3	1.52	0.73
1:u:70:SER:O	1:u:504:ARG:NH2	2.22	0.73
1:E:70:SER:O	1:E:504:ARG:NH2	2.22	0.73
1:M:70:SER:O	1:M:504:ARG:NH2	2.22	0.73
1:M:176:GLN:HE21	1:M:486:LYS:HE3	1.52	0.73
1:R:70:SER:O	1:R:504:ARG:NH2	2.22	0.73
1:T:411:ASN:ND2	1:4:342:HIS:O	2.22	0.73
1:V:411:ASN:ND2	1:5:342:HIS:O	2.22	0.73
1:W:411:ASN:ND2	1:Y:342:HIS:O	2.21	0.73
1:Z:176:GLN:HE21	1:Z:486:LYS:HE3	1.52	0.73
1:c:70:SER:O	1:c:504:ARG:NH2	2.22	0.73
1:c:342:HIS:CD2	1:e:331:HIS:HE1	2.07	0.73
1:d:176:GLN:HE21	1:d:486:LYS:HE3	1.52	0.73
1:m:70:SER:O	1:m:504:ARG:NH2	2.22	0.73
1:n:331:HIS:HE1	1:o:342:HIS:CD2	2.07	0.73
1:o:176:GLN:HE21	1:o:486:LYS:HE3	1.52	0.73
1:p:70:SER:O	1:p:504:ARG:NH2	2.22	0.73
1:A:342:HIS:CE1	1:I:406:ASN:CG	2.67	0.73
1:H:342:HIS:O	1:Y:411:ASN:ND2	2.21	0.73
1:J:411:ASN:ND2	1:L:342:HIS:O	2.22	0.73
1:K:342:HIS:O	1:0:411:ASN:ND2	2.22	0.73
1:L:70:SER:O	1:L:504:ARG:NH2	2.22	0.73
1:O:70:SER:O	1:O:504:ARG:NH2	2.22	0.73
1:O:411:ASN:ND2	1:g:342:HIS:O	2.21	0.73
1:Q:176:GLN:HE21	1:Q:486:LYS:HE3	1.52	0.73
1:U:70:SER:O	1:U:504:ARG:NH2	2.22	0.73
1:Z:342:HIS:O	1:w:411:ASN:ND2	2.21	0.73
1:2:70:SER:O	1:2:504:ARG:NH2	2.22	0.73
1:5:70:SER:O	1:5:504:ARG:NH2	2.22	0.73
1:b:70:SER:O	1:b:504:ARG:NH2	2.22	0.73
1:d:70:SER:O	1:d:504:ARG:NH2	2.22	0.73
1:g:70:SER:O	1:g:504:ARG:NH2	2.22	0.73
1:i:411:ASN:ND2	1:j:342:HIS:O	2.22	0.73
1:k:411:ASN:ND2	1:l:342:HIS:O	2.21	0.73
1:t:70:SER:O	1:t:504:ARG:NH2	2.22	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:u:411:ASN:ND2	1:v:342:HIS:O	2.22	0.73
1:A:406:ASN:CG	1:G:342:HIS:CE1	2.66	0.72
1:D:342:HIS:O	1:P:411:ASN:ND2	2.21	0.72
1:I:70:SER:O	1:I:504:ARG:NH2	2.22	0.72
1:K:70:SER:O	1:K:504:ARG:NH2	2.22	0.72
1:M:342:HIS:O	1:2:411:ASN:ND2	2.22	0.72
1:Y:176:GLN:HE21	1:Y:486:LYS:HE3	1.52	0.72
1:1:70:SER:O	1:1:504:ARG:NH2	2.22	0.72
1:c:411:ASN:ND2	1:d:342:HIS:O	2.22	0.72
1:k:70:SER:O	1:k:504:ARG:NH2	2.22	0.72
1:l:318:SER:OG	1:m:393:GLN:NE2	2.22	0.72
1:n:70:SER:O	1:n:504:ARG:NH2	2.22	0.72
1:y:70:SER:O	1:y:504:ARG:NH2	2.22	0.72
1:y:411:ASN:ND2	1:z:342:HIS:O	2.22	0.72
1:A:318:SER:OG	1:G:393:GLN:NE2	2.22	0.72
1:Q:70:SER:O	1:Q:504:ARG:NH2	2.22	0.72
1:R:411:ASN:ND2	1:S:342:HIS:O	2.22	0.72
1:X:70:SER:O	1:X:504:ARG:NH2	2.22	0.72
1:6:411:ASN:ND2	1:b:342:HIS:O	2.22	0.72
1:g:318:SER:OG	1:h:393:GLN:NE2	2.22	0.72
1:h:176:GLN:HE21	1:h:486:LYS:HE3	1.52	0.72
1:l:70:SER:O	1:l:504:ARG:NH2	2.22	0.72
1:n:411:ASN:ND2	1:o:342:HIS:O	2.22	0.72
1:o:411:ASN:ND2	1:p:342:HIS:O	2.22	0.72
1:q:342:HIS:O	1:s:411:ASN:ND2	2.22	0.72
1:7:70:SER:O	1:7:504:ARG:NH2	2.22	0.72
1:B:342:HIS:CD2	1:L:331:HIS:HE1	2.07	0.72
1:H:331:HIS:HE1	1:W:342:HIS:CD2	2.07	0.72
1:Z:331:HIS:HE1	1:x:342:HIS:CD2	2.07	0.72
1:a:342:HIS:CD2	1:b:331:HIS:HE1	2.07	0.72
1:l:411:ASN:ND2	1:m:342:HIS:O	2.21	0.72
1:t:331:HIS:HE1	1:u:342:HIS:CD2	2.07	0.72
1:w:342:HIS:CD2	1:x:331:HIS:HE1	2.07	0.72
1:H:342:HIS:CD2	1:Y:331:HIS:HE1	2.07	0.72
1:K:342:HIS:CD2	1:0:331:HIS:HE1	2.07	0.72
1:S:70:SER:O	1:S:504:ARG:NH2	2.22	0.72
1:S:331:HIS:HE1	1:U:342:HIS:CD2	2.06	0.72
1:V:331:HIS:HE1	1:5:342:HIS:CD2	2.07	0.72
1:i:70:SER:O	1:i:504:ARG:NH2	2.22	0.72
1:m:176:GLN:HE21	1:m:486:LYS:HE3	1.52	0.72
1:B:70:SER:O	1:B:504:ARG:NH2	2.22	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:342:HIS:O	1:L:411:ASN:ND2	2.22	0.72
1:H:411:ASN:ND2	1:W:342:HIS:O	2.22	0.72
1:R:331:HIS:HE1	1:S:342:HIS:CD2	2.07	0.72
1:T:70:SER:O	1:T:504:ARG:NH2	2.22	0.72
1:3:342:HIS:CD2	1:j:331:HIS:HE1	2.07	0.72
1:4:331:HIS:HE1	1:f:342:HIS:CD2	2.07	0.72
1:g:411:ASN:ND2	1:h:342:HIS:O	2.21	0.72
1:n:342:HIS:O	1:p:411:ASN:ND2	2.22	0.72
1:t:411:ASN:ND2	1:u:342:HIS:O	2.22	0.72
1:w:342:HIS:O	1:x:411:ASN:ND2	2.22	0.72
1:z:70:SER:O	1:z:504:ARG:NH2	2.22	0.72
1:O:342:HIS:CD2	1:h:331:HIS:HE1	2.07	0.72
1:f:70:SER:O	1:f:504:ARG:NH2	2.22	0.72
1:k:342:HIS:CD2	1:m:331:HIS:HE1	2.07	0.72
1:y:331:HIS:HE1	1:z:342:HIS:CD2	2.07	0.72
1:z:331:HIS:HE1	1:7:342:HIS:CD2	2.07	0.72
1:A:411:ASN:ND2	1:G:342:HIS:O	2.22	0.72
1:E:318:SER:OG	1:Q:393:GLN:NE2	2.23	0.72
1:a:70:SER:O	1:a:504:ARG:NH2	2.22	0.72
1:j:70:SER:O	1:j:504:ARG:NH2	2.22	0.72
1:A:342:HIS:CD2	1:I:331:HIS:HE1	2.07	0.72
1:D:411:ASN:ND2	1:N:342:HIS:O	2.22	0.72
1:3:70:SER:O	1:3:504:ARG:NH2	2.22	0.72
1:a:342:HIS:O	1:b:411:ASN:ND2	2.22	0.72
1:n:342:HIS:CD2	1:p:331:HIS:HE1	2.06	0.72
1:A:331:HIS:HE1	1:G:342:HIS:CD2	2.08	0.72
1:G:411:ASN:ND2	1:I:342:HIS:O	2.21	0.72
1:H:393:GLN:NE2	1:Y:318:SER:OG	2.22	0.72
1:V:342:HIS:O	1:X:411:ASN:ND2	2.22	0.72
1:4:70:SER:O	1:4:504:ARG:NH2	2.22	0.72
1:g:176:GLN:HE21	1:g:486:LYS:HE3	1.52	0.72
1:Z:318:SER:OG	1:x:393:GLN:NE2	2.22	0.72
1:1:411:ASN:ND2	1:0:342:HIS:O	2.22	0.72
1:4:318:SER:OG	1:f:393:GLN:NE2	2.23	0.72
1:l:176:GLN:HE21	1:l:486:LYS:HE3	1.52	0.72
1:q:411:ASN:ND2	1:r:342:HIS:O	2.22	0.72
1:g:331:HIS:HE1	1:h:342:HIS:CD2	2.07	0.71
1:l:331:HIS:HE1	1:m:342:HIS:CD2	2.08	0.71
1:t:342:HIS:O	1:v:411:ASN:ND2	2.21	0.71
1:K:411:ASN:ND2	1:1:342:HIS:O	2.22	0.71
1:X:342:HIS:O	1:5:411:ASN:ND2	2.22	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Y:70:SER:O	1:Y:504:ARG:NH2	2.22	0.71
1:3:393:GLN:NE2	1:j:318:SER:OG	2.24	0.71
1:C:342:HIS:CD2	1:M:331:HIS:HE1	2.07	0.71
1:Z:70:SER:O	1:Z:504:ARG:NH2	2.22	0.71
1:k:318:SER:OG	1:l:393:GLN:NE2	2.24	0.71
1:t:393:GLN:NE2	1:v:318:SER:OG	2.23	0.71
1:B:393:GLN:NE2	1:L:318:SER:OG	2.24	0.71
1:G:318:SER:OG	1:I:393:GLN:NE2	2.24	0.71
1:O:318:SER:OG	1:g:393:GLN:NE2	2.24	0.71
1:W:318:SER:OG	1:Y:393:GLN:NE2	2.24	0.71
1:Z:393:GLN:NE2	1:w:318:SER:OG	2.24	0.71
1:a:393:GLN:NE2	1:b:318:SER:OG	2.24	0.71
1:d:331:HIS:HE1	1:e:342:HIS:CD2	2.07	0.71
1:o:331:HIS:CE1	1:p:342:HIS:CD2	2.79	0.71
1:J:318:SER:OG	1:L:393:GLN:NE2	2.24	0.71
1:S:318:SER:OG	1:U:393:GLN:NE2	2.24	0.71
1:6:318:SER:OG	1:b:393:GLN:NE2	2.24	0.71
1:i:331:HIS:CE1	1:j:342:HIS:CD2	2.79	0.71
1:E:342:HIS:CD2	1:F:331:HIS:CE1	2.79	0.71
1:T:331:HIS:CE1	1:4:342:HIS:CD2	2.79	0.71
1:Z:342:HIS:CD2	1:w:331:HIS:CE1	2.79	0.71
1:2:187:TRP:O	1:2:482:GLN:NE2	2.24	0.71
1:c:187:TRP:O	1:c:482:GLN:NE2	2.24	0.71
1:n:342:HIS:CD2	1:p:331:HIS:CE1	2.79	0.71
1:0:70:SER:O	1:0:504:ARG:NH2	2.22	0.71
1:A:342:HIS:O	1:I:411:ASN:ND2	2.23	0.71
1:T:393:GLN:NE2	1:f:318:SER:OG	2.24	0.71
1:W:331:HIS:CE1	1:Y:342:HIS:CD2	2.79	0.71
1:Z:187:TRP:O	1:Z:482:GLN:NE2	2.24	0.71
1:3:318:SER:OG	1:i:393:GLN:NE2	2.24	0.71
1:q:187:TRP:O	1:q:482:GLN:NE2	2.24	0.71
1:t:331:HIS:CE1	1:u:342:HIS:CD2	2.79	0.71
1:B:331:HIS:CE1	1:J:342:HIS:CD2	2.79	0.71
1:D:187:TRP:O	1:D:482:GLN:NE2	2.24	0.71
1:K:187:TRP:O	1:K:482:GLN:NE2	2.24	0.71
1:M:342:HIS:CD2	1:2:331:HIS:CE1	2.79	0.71
1:R:318:SER:OG	1:S:393:GLN:NE2	2.24	0.71
1:V:70:SER:O	1:V:504:ARG:NH2	2.22	0.71
1:Y:187:TRP:O	1:Y:482:GLN:NE2	2.24	0.71
1:4:187:TRP:O	1:4:482:GLN:NE2	2.24	0.71
1:6:342:HIS:CD2	1:a:331:HIS:CE1	2.79	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:c:331:HIS:CE1	1:d:342:HIS:CD2	2.79	0.71
1:j:187:TRP:O	1:j:482:GLN:NE2	2.24	0.71
1:B:342:HIS:CD2	1:L:331:HIS:CE1	2.79	0.71
1:E:393:GLN:NE2	1:F:318:SER:OG	2.24	0.71
1:K:318:SER:OG	1:1:393:GLN:NE2	2.24	0.71
1:O:342:HIS:CD2	1:h:331:HIS:CE1	2.79	0.71
1:S:331:HIS:CE1	1:U:342:HIS:CD2	2.79	0.71
1:3:187:TRP:O	1:3:482:GLN:NE2	2.24	0.71
1:5:187:TRP:O	1:5:482:GLN:NE2	2.24	0.71
1:a:342:HIS:CD2	1:b:331:HIS:CE1	2.79	0.71
1:f:187:TRP:O	1:f:482:GLN:NE2	2.24	0.71
1:k:342:HIS:CD2	1:m:331:HIS:CE1	2.79	0.71
1:m:187:TRP:O	1:m:482:GLN:NE2	2.24	0.71
1:y:318:SER:OG	1:z:393:GLN:NE2	2.24	0.71
1:z:318:SER:OG	1:7:393:GLN:NE2	2.24	0.71
1:A:342:HIS:CD2	1:I:331:HIS:CE1	2.79	0.70
1:K:342:HIS:CD2	1:0:331:HIS:CE1	2.79	0.70
1:V:331:HIS:CE1	1:5:342:HIS:CD2	2.79	0.70
1:X:393:GLN:NE2	1:5:318:SER:OG	2.24	0.70
1:6:187:TRP:O	1:6:482:GLN:NE2	2.24	0.70
1:h:187:TRP:O	1:h:482:GLN:NE2	2.24	0.70
1:n:393:GLN:NE2	1:p:318:SER:OG	2.24	0.70
1:o:318:SER:OG	1:p:393:GLN:NE2	2.24	0.70
1:z:331:HIS:CE1	1:7:342:HIS:CD2	2.79	0.70
1:B:187:TRP:O	1:B:482:GLN:NE2	2.24	0.70
1:F:187:TRP:O	1:F:482:GLN:NE2	2.24	0.70
1:J:187:TRP:O	1:J:482:GLN:NE2	2.24	0.70
1:M:187:TRP:O	1:M:482:GLN:NE2	2.24	0.70
1:O:187:TRP:O	1:O:482:GLN:NE2	2.24	0.70
1:Q:187:TRP:O	1:Q:482:GLN:NE2	2.24	0.70
1:S:187:TRP:O	1:S:482:GLN:NE2	2.24	0.70
1:i:187:TRP:O	1:i:482:GLN:NE2	2.24	0.70
1:k:187:TRP:O	1:k:482:GLN:NE2	2.24	0.70
1:y:331:HIS:CE1	1:z:342:HIS:CD2	2.79	0.70
1:0:187:TRP:O	1:0:482:GLN:NE2	2.24	0.70
1:F:342:HIS:CD2	1:Q:331:HIS:HE1	2.09	0.70
1:J:331:HIS:CE1	1:L:342:HIS:CD2	2.79	0.70
1:N:187:TRP:O	1:N:482:GLN:NE2	2.24	0.70
1:R:331:HIS:CE1	1:S:342:HIS:CD2	2.79	0.70
1:T:187:TRP:O	1:T:482:GLN:NE2	2.24	0.70
1:V:187:TRP:O	1:V:482:GLN:NE2	2.24	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:6:331:HIS:CE1	1:b:342:HIS:CD2	2.79	0.70
1:a:187:TRP:O	1:a:482:GLN:NE2	2.24	0.70
1:k:393:GLN:NE2	1:m:318:SER:OG	2.24	0.70
1:t:187:TRP:O	1:t:482:GLN:NE2	2.24	0.70
1:t:318:SER:OG	1:u:393:GLN:NE2	2.24	0.70
1:z:187:TRP:O	1:z:482:GLN:NE2	2.24	0.70
1:C:393:GLN:NE2	1:M:318:SER:OG	2.24	0.70
1:D:318:SER:OG	1:N:393:GLN:NE2	2.24	0.70
1:E:406:ASN:CG	1:Q:342:HIS:CE1	2.70	0.70
1:O:393:GLN:NE2	1:h:318:SER:OG	2.24	0.70
1:Q:524:ARG:NH1	1:Q:564:MET:SD	2.65	0.70
1:3:524:ARG:NH1	1:3:564:MET:SD	2.65	0.70
1:6:524:ARG:NH1	1:6:564:MET:SD	2.65	0.70
1:b:187:TRP:O	1:b:482:GLN:NE2	2.24	0.70
1:d:187:TRP:O	1:d:482:GLN:NE2	2.24	0.70
1:d:318:SER:OG	1:e:393:GLN:NE2	2.24	0.70
1:f:524:ARG:NH1	1:f:564:MET:SD	2.65	0.70
1:l:187:TRP:O	1:l:482:GLN:NE2	2.24	0.70
1:n:187:TRP:O	1:n:482:GLN:NE2	2.24	0.70
1:n:318:SER:OG	1:o:393:GLN:NE2	2.24	0.70
1:o:187:TRP:O	1:o:482:GLN:NE2	2.24	0.70
1:q:318:SER:OG	1:r:393:GLN:NE2	2.24	0.70
1:q:331:HIS:CE1	1:r:342:HIS:CD2	2.79	0.70
1:r:187:TRP:O	1:r:482:GLN:NE2	2.24	0.70
1:u:318:SER:OG	1:v:393:GLN:NE2	2.24	0.70
1:x:187:TRP:O	1:x:482:GLN:NE2	2.24	0.70
1:A:524:ARG:NH1	1:A:564:MET:SD	2.65	0.70
1:B:318:SER:OG	1:J:393:GLN:NE2	2.24	0.70
1:F:524:ARG:NH1	1:F:564:MET:SD	2.65	0.70
1:H:187:TRP:O	1:H:482:GLN:NE2	2.24	0.70
1:H:331:HIS:CE1	1:W:342:HIS:CD2	2.79	0.70
1:I:187:TRP:O	1:I:482:GLN:NE2	2.24	0.70
1:J:524:ARG:NH1	1:J:564:MET:SD	2.65	0.70
1:N:331:HIS:CE1	1:P:342:HIS:CD2	2.79	0.70
1:T:524:ARG:NH1	1:T:564:MET:SD	2.65	0.70
1:g:187:TRP:O	1:g:482:GLN:NE2	2.24	0.70
1:i:524:ARG:NH1	1:i:564:MET:SD	2.65	0.70
1:n:524:ARG:NH1	1:n:564:MET:SD	2.65	0.70
1:o:524:ARG:NH1	1:o:564:MET:SD	2.65	0.70
1:r:331:HIS:CE1	1:s:342:HIS:CD2	2.79	0.70
1:u:524:ARG:NH1	1:u:564:MET:SD	2.65	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:w:342:HIS:CD2	1:x:331:HIS:CE1	2.79	0.70
1:y:342:HIS:CD2	1:7:331:HIS:CE1	2.79	0.70
1:A:187:TRP:O	1:A:482:GLN:NE2	2.24	0.70
1:C:342:HIS:CD2	1:M:331:HIS:CE1	2.79	0.70
1:C:524:ARG:NH1	1:C:564:MET:SD	2.65	0.70
1:D:331:HIS:CE1	1:N:342:HIS:CD2	2.79	0.70
1:H:524:ARG:NH1	1:H:564:MET:SD	2.65	0.70
1:K:524:ARG:NH1	1:K:564:MET:SD	2.65	0.70
1:L:187:TRP:O	1:L:482:GLN:NE2	2.24	0.70
1:R:187:TRP:O	1:R:482:GLN:NE2	2.24	0.70
1:Z:524:ARG:NH1	1:Z:564:MET:SD	2.65	0.70
1:6:393:GLN:NE2	1:a:318:SER:OG	2.24	0.70
1:d:331:HIS:CE1	1:e:342:HIS:CD2	2.79	0.70
1:e:524:ARG:NH1	1:e:564:MET:SD	2.65	0.70
1:h:524:ARG:NH1	1:h:564:MET:SD	2.65	0.70
1:m:524:ARG:NH1	1:m:564:MET:SD	2.65	0.70
1:y:187:TRP:O	1:y:482:GLN:NE2	2.24	0.70
1:A:393:GLN:NE2	1:I:318:SER:OG	2.24	0.70
1:E:82:ARG:NH2	1:E:218:ASN:OD1	2.25	0.70
1:N:318:SER:OG	1:P:393:GLN:NE2	2.25	0.70
1:R:342:HIS:CD2	1:U:331:HIS:CE1	2.79	0.70
1:Y:524:ARG:NH1	1:Y:564:MET:SD	2.65	0.70
1:5:524:ARG:NH1	1:5:564:MET:SD	2.65	0.70
1:g:331:HIS:CE1	1:h:342:HIS:CD2	2.80	0.70
1:g:524:ARG:NH1	1:g:564:MET:SD	2.65	0.70
1:r:318:SER:OG	1:s:393:GLN:NE2	2.25	0.70
1:u:187:TRP:O	1:u:482:GLN:NE2	2.24	0.70
1:w:524:ARG:NH1	1:w:564:MET:SD	2.65	0.70
1:C:331:HIS:CE1	1:2:342:HIS:CD2	2.79	0.70
1:F:82:ARG:NH2	1:F:218:ASN:OD1	2.25	0.70
1:N:524:ARG:NH1	1:N:564:MET:SD	2.65	0.70
1:P:187:TRP:O	1:P:482:GLN:NE2	2.24	0.70
1:T:82:ARG:NH2	1:T:218:ASN:OD1	2.25	0.70
1:U:187:TRP:O	1:U:482:GLN:NE2	2.24	0.70
1:V:342:HIS:CD2	1:X:331:HIS:CE1	2.79	0.70
1:V:524:ARG:NH1	1:V:564:MET:SD	2.65	0.70
1:W:524:ARG:NH1	1:W:564:MET:SD	2.65	0.70
1:X:524:ARG:NH1	1:X:564:MET:SD	2.65	0.70
1:3:331:HIS:CE1	1:i:342:HIS:CD2	2.79	0.70
1:c:342:HIS:CD2	1:e:331:HIS:CE1	2.79	0.70
1:k:524:ARG:NH1	1:k:564:MET:SD	2.65	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:l:331:HIS:CE1	1:m:342:HIS:CD2	2.80	0.70
1:q:393:GLN:NE2	1:s:318:SER:OG	2.24	0.70
1:r:524:ARG:NH1	1:r:564:MET:SD	2.65	0.70
1:s:187:TRP:O	1:s:482:GLN:NE2	2.24	0.70
1:x:524:ARG:NH1	1:x:564:MET:SD	2.65	0.70
1:7:187:TRP:O	1:7:482:GLN:NE2	2.24	0.70
1:0:524:ARG:NH1	1:0:564:MET:SD	2.65	0.70
1:D:82:ARG:NH2	1:D:218:ASN:OD1	2.25	0.70
1:D:393:GLN:NE2	1:P:318:SER:OG	2.24	0.70
1:T:342:HIS:CD2	1:f:331:HIS:CE1	2.79	0.70
1:1:331:HIS:CE1	1:0:342:HIS:CD2	2.79	0.70
1:1:524:ARG:NH1	1:1:564:MET:SD	2.65	0.70
1:l:524:ARG:NH1	1:l:564:MET:SD	2.65	0.70
1:o:82:ARG:NH2	1:o:218:ASN:OD1	2.25	0.70
1:p:82:ARG:NH2	1:p:218:ASN:OD1	2.25	0.70
1:p:524:ARG:NH1	1:p:564:MET:SD	2.65	0.70
1:q:82:ARG:NH2	1:q:218:ASN:OD1	2.25	0.70
1:w:393:GLN:NE2	1:x:318:SER:OG	2.24	0.70
1:D:342:HIS:CD2	1:P:331:HIS:CE1	2.79	0.70
1:E:524:ARG:NH1	1:E:564:MET:SD	2.65	0.70
1:F:342:HIS:CE1	1:Q:406:ASN:CG	2.70	0.70
1:L:82:ARG:NH2	1:L:218:ASN:OD1	2.25	0.70
1:M:393:GLN:NE2	1:2:318:SER:OG	2.24	0.70
1:O:524:ARG:NH1	1:O:564:MET:SD	2.65	0.70
1:P:82:ARG:NH2	1:P:218:ASN:OD1	2.25	0.70
1:U:524:ARG:NH1	1:U:564:MET:SD	2.65	0.70
1:X:187:TRP:O	1:X:482:GLN:NE2	2.24	0.70
1:1:187:TRP:O	1:1:482:GLN:NE2	2.24	0.70
1:b:82:ARG:NH2	1:b:218:ASN:OD1	2.25	0.70
1:c:318:SER:OG	1:d:393:GLN:NE2	2.24	0.70
1:i:82:ARG:NH2	1:i:218:ASN:OD1	2.25	0.70
1:s:82:ARG:NH2	1:s:218:ASN:OD1	2.25	0.70
1:C:187:TRP:O	1:C:482:GLN:NE2	2.24	0.69
1:G:524:ARG:NH1	1:G:564:MET:SD	2.65	0.69
1:H:318:SER:OG	1:W:393:GLN:NE2	2.24	0.69
1:R:393:GLN:NE2	1:U:318:SER:OG	2.24	0.69
1:e:187:TRP:O	1:e:482:GLN:NE2	2.24	0.69
1:q:342:HIS:CD2	1:s:331:HIS:CE1	2.79	0.69
1:v:187:TRP:O	1:v:482:GLN:NE2	2.24	0.69
1:v:524:ARG:NH1	1:v:564:MET:SD	2.65	0.69
1:w:187:TRP:O	1:w:482:GLN:NE2	2.24	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:y:393:GLN:NE2	1:7:318:SER:OG	2.24	0.69
1:7:524:ARG:NH1	1:7:564:MET:SD	2.65	0.69
1:G:187:TRP:O	1:G:482:GLN:NE2	2.24	0.69
1:I:524:ARG:NH1	1:I:564:MET:SD	2.65	0.69
1:N:82:ARG:NH2	1:N:218:ASN:OD1	2.25	0.69
1:P:524:ARG:NH1	1:P:564:MET:SD	2.65	0.69
1:W:187:TRP:O	1:W:482:GLN:NE2	2.24	0.69
1:6:82:ARG:NH2	1:6:218:ASN:OD1	2.25	0.69
1:f:82:ARG:NH2	1:f:218:ASN:OD1	2.25	0.69
1:n:331:HIS:CE1	1:o:342:HIS:CD2	2.79	0.69
1:y:524:ARG:NH1	1:y:564:MET:SD	2.65	0.69
1:H:342:HIS:CD2	1:Y:331:HIS:CE1	2.80	0.69
1:K:331:HIS:CE1	1:1:342:HIS:CD2	2.79	0.69
1:T:318:SER:OG	1:4:393:GLN:NE2	2.24	0.69
1:V:318:SER:OG	1:5:393:GLN:NE2	2.24	0.69
1:Z:331:HIS:CE1	1:x:342:HIS:CD2	2.80	0.69
1:3:82:ARG:NH2	1:3:218:ASN:OD1	2.25	0.69
1:a:524:ARG:NH1	1:a:564:MET:SD	2.65	0.69
1:k:82:ARG:NH2	1:k:218:ASN:OD1	2.25	0.69
1:p:187:TRP:O	1:p:482:GLN:NE2	2.24	0.69
1:r:82:ARG:NH2	1:r:218:ASN:OD1	2.25	0.69
1:s:524:ARG:NH1	1:s:564:MET:SD	2.65	0.69
1:B:524:ARG:NH1	1:B:564:MET:SD	2.65	0.69
1:E:187:TRP:O	1:E:482:GLN:NE2	2.24	0.69
1:J:82:ARG:NH2	1:J:218:ASN:OD1	2.25	0.69
1:K:393:GLN:NE2	1:0:318:SER:OG	2.24	0.69
1:O:82:ARG:NH2	1:O:218:ASN:OD1	2.25	0.69
1:R:524:ARG:NH1	1:R:564:MET:SD	2.65	0.69
1:X:342:HIS:CD2	1:5:331:HIS:CE1	2.79	0.69
1:c:393:GLN:NE2	1:e:318:SER:OG	2.24	0.69
1:i:318:SER:OG	1:j:393:GLN:NE2	2.24	0.69
1:t:342:HIS:CD2	1:v:331:HIS:CE1	2.79	0.69
1:G:331:HIS:CE1	1:I:342:HIS:CD2	2.79	0.69
1:L:524:ARG:NH1	1:L:564:MET:SD	2.65	0.69
1:M:524:ARG:NH1	1:M:564:MET:SD	2.65	0.69
1:O:331:HIS:CE1	1:g:342:HIS:CD2	2.79	0.69
1:X:82:ARG:NH2	1:X:218:ASN:OD1	2.25	0.69
1:c:82:ARG:NH2	1:c:218:ASN:OD1	2.25	0.69
1:k:331:HIS:CE1	1:l:342:HIS:CD2	2.79	0.69
1:t:524:ARG:NH1	1:t:564:MET:SD	2.65	0.69
1:u:331:HIS:CE1	1:v:342:HIS:CD2	2.79	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:z:524:ARG:NH1	1:z:564:MET:SD	2.65	0.69
1:C:318:SER:OG	1:2:393:GLN:NE2	2.24	0.69
1:1:82:ARG:NH2	1:1:218:ASN:OD1	2.25	0.69
1:2:524:ARG:NH1	1:2:564:MET:SD	2.65	0.69
1:b:524:ARG:NH1	1:b:564:MET:SD	2.65	0.69
1:d:82:ARG:NH2	1:d:218:ASN:OD1	2.25	0.69
1:2:82:ARG:NH2	1:2:218:ASN:OD1	2.25	0.69
1:3:342:HIS:CD2	1:j:331:HIS:CE1	2.79	0.69
1:4:331:HIS:CE1	1:f:342:HIS:CD2	2.79	0.69
1:4:524:ARG:NH1	1:4:564:MET:SD	2.65	0.69
1:c:524:ARG:NH1	1:c:564:MET:SD	2.65	0.69
1:d:524:ARG:NH1	1:d:564:MET:SD	2.65	0.69
1:E:331:HIS:CE1	1:Q:342:HIS:CD2	2.81	0.69
1:E:331:HIS:HE1	1:Q:342:HIS:CD2	2.09	0.69
1:G:468:SER:HB3	1:G:474:ILE:HD11	1.75	0.69
1:M:82:ARG:NH2	1:M:218:ASN:OD1	2.25	0.69
1:N:409:PRO:O	1:P:223:ILE:HD11	1.93	0.69
1:R:82:ARG:NH2	1:R:218:ASN:OD1	2.25	0.69
1:S:524:ARG:NH1	1:S:564:MET:SD	2.65	0.69
1:U:82:ARG:NH2	1:U:218:ASN:OD1	2.25	0.69
1:V:82:ARG:NH2	1:V:218:ASN:OD1	2.25	0.69
1:j:524:ARG:NH1	1:j:564:MET:SD	2.65	0.69
1:k:409:PRO:O	1:l:223:ILE:HD11	1.93	0.69
1:m:468:SER:HB3	1:m:474:ILE:HD11	1.75	0.69
1:n:82:ARG:NH2	1:n:218:ASN:OD1	2.25	0.69
1:p:468:SER:HB3	1:p:474:ILE:HD11	1.75	0.69
1:r:409:PRO:O	1:s:223:ILE:HD11	1.93	0.69
1:t:409:PRO:O	1:u:223:ILE:HD11	1.93	0.69
1:v:468:SER:HB3	1:v:474:ILE:HD11	1.75	0.69
1:y:82:ARG:NH2	1:y:218:ASN:OD1	2.25	0.69
1:y:223:ILE:HD11	1:7:409:PRO:O	1.93	0.69
1:7:82:ARG:NH2	1:7:218:ASN:OD1	2.25	0.69
1:C:82:ARG:NH2	1:C:218:ASN:OD1	2.25	0.69
1:E:468:SER:HB3	1:E:474:ILE:HD11	1.75	0.69
1:H:82:ARG:NH2	1:H:218:ASN:OD1	2.25	0.69
1:J:468:SER:HB3	1:J:474:ILE:HD11	1.75	0.69
1:O:409:PRO:O	1:g:223:ILE:HD11	1.93	0.69
1:Q:82:ARG:NH2	1:Q:218:ASN:OD1	2.25	0.69
1:6:468:SER:HB3	1:6:474:ILE:HD11	1.75	0.69
1:h:468:SER:HB3	1:h:474:ILE:HD11	1.75	0.69
1:0:82:ARG:NH2	1:0:218:ASN:OD1	2.25	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:524:ARG:NH1	1:D:564:MET:SD	2.65	0.69
1:F:468:SER:HB3	1:F:474:ILE:HD11	1.75	0.69
1:R:223:ILE:HD11	1:U:409:PRO:O	1.93	0.69
1:5:82:ARG:NH2	1:5:218:ASN:OD1	2.25	0.69
1:e:82:ARG:NH2	1:e:218:ASN:OD1	2.25	0.69
1:q:524:ARG:NH1	1:q:564:MET:SD	2.65	0.69
1:x:82:ARG:NH2	1:x:218:ASN:OD1	2.25	0.69
1:A:223:ILE:HD11	1:I:409:PRO:O	1.94	0.68
1:H:468:SER:HB3	1:H:474:ILE:HD11	1.75	0.68
1:J:409:PRO:O	1:L:223:ILE:HD11	1.93	0.68
1:K:82:ARG:NH2	1:K:218:ASN:OD1	2.25	0.68
1:M:223:ILE:HD11	1:2:409:PRO:O	1.93	0.68
1:S:82:ARG:NH2	1:S:218:ASN:OD1	2.25	0.68
1:V:393:GLN:NE2	1:X:318:SER:OG	2.25	0.68
1:6:409:PRO:O	1:b:223:ILE:HD11	1.93	0.68
1:c:409:PRO:O	1:d:223:ILE:HD11	1.93	0.68
1:D:409:PRO:O	1:N:223:ILE:HD11	1.93	0.68
1:D:468:SER:HB3	1:D:474:ILE:HD11	1.75	0.68
1:F:342:HIS:CD2	1:Q:331:HIS:CE1	2.80	0.68
1:T:409:PRO:O	1:4:223:ILE:HD11	1.93	0.68
1:Y:82:ARG:NH2	1:Y:218:ASN:OD1	2.25	0.68
1:1:318:SER:OG	1:0:393:GLN:NE2	2.25	0.68
1:i:409:PRO:O	1:j:223:ILE:HD11	1.93	0.68
1:o:468:SER:HB3	1:o:474:ILE:HD11	1.75	0.68
1:u:409:PRO:O	1:v:223:ILE:HD11	1.93	0.68
1:x:468:SER:HB3	1:x:474:ILE:HD11	1.75	0.68
1:z:82:ARG:NH2	1:z:218:ASN:OD1	2.25	0.68
1:A:82:ARG:NH2	1:A:218:ASN:OD1	2.25	0.68
1:B:223:ILE:HD11	1:L:409:PRO:O	1.94	0.68
1:F:342:HIS:O	1:Q:411:ASN:ND2	2.26	0.68
1:G:82:ARG:NH2	1:G:218:ASN:OD1	2.25	0.68
1:Z:223:ILE:HD11	1:w:409:PRO:O	1.93	0.68
1:q:409:PRO:O	1:r:223:ILE:HD11	1.93	0.68
1:u:82:ARG:NH2	1:u:218:ASN:OD1	2.25	0.68
1:C:468:SER:HB3	1:C:474:ILE:HD11	1.75	0.68
1:E:411:ASN:ND2	1:Q:342:HIS:O	2.26	0.68
1:Z:82:ARG:NH2	1:Z:218:ASN:OD1	2.25	0.68
1:4:409:PRO:O	1:f:223:ILE:HD11	1.94	0.68
1:a:223:ILE:HD11	1:b:409:PRO:O	1.94	0.68
1:q:468:SER:HB3	1:q:474:ILE:HD11	1.75	0.68
1:t:223:ILE:HD11	1:v:409:PRO:O	1.94	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:y:409:PRO:O	1:z:223:ILE:HD11	1.94	0.68
1:G:409:PRO:O	1:I:223:ILE:HD11	1.94	0.68
1:K:223:ILE:HD11	1:0:409:PRO:O	1.93	0.68
1:R:409:PRO:O	1:S:223:ILE:HD11	1.93	0.68
1:W:409:PRO:O	1:Y:223:ILE:HD11	1.93	0.68
1:3:223:ILE:HD11	1:j:409:PRO:O	1.94	0.68
1:e:468:SER:HB3	1:e:474:ILE:HD11	1.75	0.68
1:g:82:ARG:NH2	1:g:218:ASN:OD1	2.25	0.68
1:v:82:ARG:NH2	1:v:218:ASN:OD1	2.25	0.68
1:A:331:HIS:CE1	1:G:342:HIS:CD2	2.80	0.68
1:E:416:ASN:OD1	1:Q:371:GLN:NE2	2.27	0.68
1:V:409:PRO:O	1:5:223:ILE:HD11	1.93	0.68
1:1:409:PRO:O	1:0:223:ILE:HD11	1.93	0.68
1:i:468:SER:HB3	1:i:474:ILE:HD11	1.75	0.68
1:j:468:SER:HB3	1:j:474:ILE:HD11	1.75	0.68
1:l:82:ARG:NH2	1:l:218:ASN:OD1	2.25	0.68
1:n:223:ILE:HD11	1:p:409:PRO:O	1.93	0.68
1:C:223:ILE:HD11	1:M:409:PRO:O	1.93	0.68
1:O:223:ILE:HD11	1:h:409:PRO:O	1.94	0.68
1:R:468:SER:HB3	1:R:474:ILE:HD11	1.75	0.68
1:T:223:ILE:HD11	1:f:409:PRO:O	1.93	0.68
1:W:82:ARG:NH2	1:W:218:ASN:OD1	2.25	0.68
1:3:409:PRO:O	1:i:223:ILE:HD11	1.93	0.68
1:4:468:SER:HB3	1:4:474:ILE:HD11	1.75	0.68
1:d:409:PRO:O	1:e:223:ILE:HD11	1.93	0.68
1:k:223:ILE:HD11	1:m:409:PRO:O	1.94	0.68
1:z:409:PRO:O	1:7:223:ILE:HD11	1.93	0.68
1:I:82:ARG:NH2	1:I:218:ASN:OD1	2.25	0.68
1:T:468:SER:HB3	1:T:474:ILE:HD11	1.75	0.68
1:U:468:SER:HB3	1:U:474:ILE:HD11	1.75	0.68
1:V:223:ILE:HD11	1:X:409:PRO:O	1.93	0.68
1:a:82:ARG:NH2	1:a:218:ASN:OD1	2.25	0.68
1:r:468:SER:HB3	1:r:474:ILE:HD11	1.75	0.68
1:t:82:ARG:NH2	1:t:218:ASN:OD1	2.25	0.68
1:w:82:ARG:NH2	1:w:218:ASN:OD1	2.25	0.68
1:7:468:SER:HB3	1:7:474:ILE:HD11	1.75	0.68
1:B:82:ARG:NH2	1:B:218:ASN:OD1	2.25	0.68
1:B:468:SER:HB3	1:B:474:ILE:HD11	1.75	0.68
1:I:468:SER:HB3	1:I:474:ILE:HD11	1.75	0.68
1:N:468:SER:HB3	1:N:474:ILE:HD11	1.75	0.68
1:S:409:PRO:O	1:U:223:ILE:HD11	1.93	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:2:468:SER:HB3	1:2:474:ILE:HD11	1.75	0.68
1:a:468:SER:HB3	1:a:474:ILE:HD11	1.75	0.68
1:w:468:SER:HB3	1:w:474:ILE:HD11	1.75	0.68
1:O:468:SER:HB3	1:O:474:ILE:HD11	1.75	0.68
1:W:468:SER:HB3	1:W:474:ILE:HD11	1.75	0.68
1:X:468:SER:HB3	1:X:474:ILE:HD11	1.75	0.68
1:c:468:SER:HB3	1:c:474:ILE:HD11	1.75	0.68
1:h:82:ARG:NH2	1:h:218:ASN:OD1	2.25	0.68
1:m:82:ARG:NH2	1:m:218:ASN:OD1	2.25	0.68
1:n:409:PRO:O	1:o:223:ILE:HD11	1.93	0.68
1:y:468:SER:HB3	1:y:474:ILE:HD11	1.75	0.68
1:k:468:SER:HB3	1:k:474:ILE:HD11	1.75	0.67
1:q:223:ILE:HD11	1:s:409:PRO:O	1.93	0.67
1:t:468:SER:HB3	1:t:474:ILE:HD11	1.75	0.67
1:D:223:ILE:HD11	1:P:409:PRO:O	1.93	0.67
1:I:342:HIS:O	1:I:342:HIS:ND1	2.28	0.67
1:Q:132:THR:HG22	1:Q:535:PRO:HD2	1.77	0.67
1:1:468:SER:HB3	1:1:474:ILE:HD11	1.75	0.67
1:K:409:PRO:O	1:1:223:ILE:HD11	1.93	0.67
1:P:342:HIS:O	1:P:342:HIS:ND1	2.28	0.67
1:T:342:HIS:O	1:T:342:HIS:ND1	2.28	0.67
1:X:132:THR:HG22	1:X:535:PRO:HD2	1.77	0.67
1:1:132:THR:HG22	1:1:535:PRO:HD2	1.77	0.67
1:i:342:HIS:O	1:i:342:HIS:ND1	2.28	0.67
1:k:132:THR:HG22	1:k:535:PRO:HD2	1.77	0.67
1:t:342:HIS:O	1:t:342:HIS:ND1	2.28	0.67
1:A:409:PRO:O	1:G:223:ILE:HD11	1.94	0.67
1:A:416:ASN:OD1	1:G:371:GLN:NE2	2.27	0.67
1:E:223:ILE:HD11	1:F:409:PRO:O	1.93	0.67
1:H:132:THR:HG22	1:H:535:PRO:HD2	1.77	0.67
1:H:409:PRO:O	1:W:223:ILE:HD11	1.94	0.67
1:O:132:THR:HG22	1:O:535:PRO:HD2	1.77	0.67
1:P:132:THR:HG22	1:P:535:PRO:HD2	1.77	0.67
1:X:223:ILE:HD11	1:5:409:PRO:O	1.93	0.67
1:Z:409:PRO:O	1:x:223:ILE:HD11	1.94	0.67
1:6:223:ILE:HD11	1:a:409:PRO:O	1.93	0.67
1:s:132:THR:HG22	1:s:535:PRO:HD2	1.77	0.67
1:s:342:HIS:O	1:s:342:HIS:ND1	2.28	0.67
1:w:223:ILE:HD11	1:x:409:PRO:O	1.94	0.67
1:x:132:THR:HG22	1:x:535:PRO:HD2	1.77	0.67
1:L:132:THR:HG22	1:L:535:PRO:HD2	1.77	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:g:409:PRO:O	1:h:223:ILE:HD11	1.94	0.67
1:g:468:SER:HB3	1:g:474:ILE:HD11	1.75	0.67
1:l:409:PRO:O	1:m:223:ILE:HD11	1.94	0.67
1:n:132:THR:HG22	1:n:535:PRO:HD2	1.77	0.67
1:s:468:SER:HB3	1:s:474:ILE:HD11	1.75	0.67
1:B:409:PRO:O	1:J:223:ILE:HD11	1.93	0.67
1:H:223:ILE:HD11	1:Y:409:PRO:O	1.94	0.67
1:M:468:SER:HB3	1:M:474:ILE:HD11	1.75	0.67
1:P:468:SER:HB3	1:P:474:ILE:HD11	1.75	0.67
1:W:132:THR:HG22	1:W:535:PRO:HD2	1.77	0.67
1:b:132:THR:HG22	1:b:535:PRO:HD2	1.77	0.67
1:d:468:SER:HB3	1:d:474:ILE:HD11	1.75	0.67
1:z:342:HIS:O	1:z:342:HIS:ND1	2.28	0.67
1:E:342:HIS:O	1:E:342:HIS:ND1	2.28	0.67
1:L:468:SER:HB3	1:L:474:ILE:HD11	1.75	0.67
1:Q:468:SER:HB3	1:Q:474:ILE:HD11	1.75	0.67
1:R:342:HIS:O	1:R:342:HIS:ND1	2.28	0.67
1:S:342:HIS:O	1:S:342:HIS:ND1	2.28	0.67
1:V:342:HIS:O	1:V:342:HIS:ND1	2.28	0.67
1:b:468:SER:HB3	1:b:474:ILE:HD11	1.75	0.67
1:l:468:SER:HB3	1:l:474:ILE:HD11	1.75	0.67
1:n:342:HIS:O	1:n:342:HIS:ND1	2.28	0.67
1:w:132:THR:HG22	1:w:535:PRO:HD2	1.77	0.67
1:0:342:HIS:O	1:0:342:HIS:ND1	2.28	0.67
1:F:342:HIS:O	1:F:342:HIS:ND1	2.28	0.67
1:Q:342:HIS:O	1:Q:342:HIS:ND1	2.28	0.67
1:X:342:HIS:O	1:X:342:HIS:ND1	2.28	0.67
1:1:342:HIS:O	1:1:342:HIS:ND1	2.28	0.67
1:4:132:THR:HG22	1:4:535:PRO:HD2	1.77	0.67
1:a:342:HIS:O	1:a:342:HIS:ND1	2.28	0.67
1:k:342:HIS:O	1:k:342:HIS:ND1	2.28	0.67
1:n:468:SER:HB3	1:n:474:ILE:HD11	1.75	0.67
1:o:409:PRO:O	1:p:223:ILE:HD11	1.93	0.67
1:p:342:HIS:O	1:p:342:HIS:ND1	2.28	0.67
1:y:342:HIS:O	1:y:342:HIS:ND1	2.28	0.67
1:B:342:HIS:O	1:B:342:HIS:ND1	2.28	0.67
1:E:132:THR:HG22	1:E:535:PRO:HD2	1.77	0.67
1:K:468:SER:HB3	1:K:474:ILE:HD11	1.75	0.67
1:O:342:HIS:O	1:O:342:HIS:ND1	2.28	0.67
1:V:468:SER:HB3	1:V:474:ILE:HD11	1.75	0.67
1:e:342:HIS:O	1:e:342:HIS:ND1	2.28	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:j:132:THR:HG22	1:j:535:PRO:HD2	1.77	0.67
1:o:342:HIS:O	1:o:342:HIS:ND1	2.28	0.67
1:p:132:THR:HG22	1:p:535:PRO:HD2	1.77	0.67
1:0:468:SER:HB3	1:0:474:ILE:HD11	1.75	0.67
1:A:468:SER:HB3	1:A:474:ILE:HD11	1.75	0.67
1:C:342:HIS:O	1:C:342:HIS:ND1	2.28	0.67
1:N:132:THR:HG22	1:N:535:PRO:HD2	1.77	0.67
1:5:468:SER:HB3	1:5:474:ILE:HD11	1.75	0.67
1:c:342:HIS:O	1:c:342:HIS:ND1	2.28	0.67
1:f:468:SER:HB3	1:f:474:ILE:HD11	1.75	0.67
1:m:132:THR:HG22	1:m:535:PRO:HD2	1.77	0.67
1:u:468:SER:HB3	1:u:474:ILE:HD11	1.75	0.67
1:Y:132:THR:HG22	1:Y:535:PRO:HD2	1.77	0.66
1:2:342:HIS:O	1:2:342:HIS:ND1	2.28	0.66
1:3:468:SER:HB3	1:3:474:ILE:HD11	1.75	0.66
1:b:342:HIS:O	1:b:342:HIS:ND1	2.28	0.66
1:h:132:THR:HG22	1:h:535:PRO:HD2	1.77	0.66
1:i:132:THR:HG22	1:i:535:PRO:HD2	1.77	0.66
1:r:132:THR:HG22	1:r:535:PRO:HD2	1.77	0.66
1:y:132:THR:HG22	1:y:535:PRO:HD2	1.77	0.66
1:B:132:THR:HG22	1:B:535:PRO:HD2	1.77	0.66
1:G:342:HIS:O	1:G:342:HIS:ND1	2.28	0.66
1:L:342:HIS:O	1:L:342:HIS:ND1	2.28	0.66
1:T:132:THR:HG22	1:T:535:PRO:HD2	1.77	0.66
1:Y:468:SER:HB3	1:Y:474:ILE:HD11	1.75	0.66
1:Z:132:THR:HG22	1:Z:535:PRO:HD2	1.77	0.66
1:5:342:HIS:O	1:5:342:HIS:ND1	2.28	0.66
1:a:132:THR:HG22	1:a:535:PRO:HD2	1.77	0.66
1:j:82:ARG:NH2	1:j:218:ASN:OD1	2.25	0.66
1:C:409:PRO:O	1:2:223:ILE:HD11	1.94	0.66
1:R:132:THR:HG22	1:R:535:PRO:HD2	1.77	0.66
1:Z:468:SER:HB3	1:Z:474:ILE:HD11	1.75	0.66
1:4:82:ARG:NH2	1:4:218:ASN:OD1	2.25	0.66
1:v:342:HIS:O	1:v:342:HIS:ND1	2.28	0.66
1:F:460:ASP:OD1	1:Q:568:THR:O	2.13	0.66
1:K:342:HIS:O	1:K:342:HIS:ND1	2.28	0.66
1:M:342:HIS:O	1:M:342:HIS:ND1	2.28	0.66
1:Y:342:HIS:O	1:Y:342:HIS:ND1	2.28	0.66
1:Z:342:HIS:O	1:Z:342:HIS:ND1	2.28	0.66
1:5:132:THR:HG22	1:5:535:PRO:HD2	1.77	0.66
1:6:342:HIS:O	1:6:342:HIS:ND1	2.28	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:o:132:THR:HG22	1:o:535:PRO:HD2	1.77	0.66
1:q:342:HIS:O	1:q:342:HIS:ND1	2.28	0.66
1:w:342:HIS:O	1:w:342:HIS:ND1	2.28	0.66
1:z:468:SER:HB3	1:z:474:ILE:HD11	1.75	0.66
1:D:342:HIS:O	1:D:342:HIS:ND1	2.28	0.66
1:W:342:HIS:O	1:W:342:HIS:ND1	2.28	0.66
1:Z:416:ASN:OD1	1:x:371:GLN:NE2	2.29	0.66
1:c:223:ILE:HD11	1:e:409:PRO:O	1.94	0.66
1:d:342:HIS:O	1:d:342:HIS:ND1	2.28	0.66
1:f:342:HIS:O	1:f:342:HIS:ND1	2.28	0.66
1:H:371:GLN:NE2	1:Y:416:ASN:OD1	2.29	0.66
1:I:132:THR:HG22	1:I:535:PRO:HD2	1.77	0.66
1:J:342:HIS:O	1:J:342:HIS:ND1	2.28	0.66
1:K:132:THR:HG22	1:K:535:PRO:HD2	1.77	0.66
1:R:67:LEU:HD11	1:R:111:PHE:HD2	1.61	0.66
1:3:342:HIS:O	1:3:342:HIS:ND1	2.28	0.66
1:j:342:HIS:O	1:j:342:HIS:ND1	2.28	0.66
1:C:132:THR:HG22	1:C:535:PRO:HD2	1.77	0.66
1:E:342:HIS:CE1	1:F:406:ASN:OD1	2.49	0.66
1:G:406:ASN:OD1	1:I:342:HIS:CE1	2.49	0.66
1:H:342:HIS:CE1	1:Y:406:ASN:OD1	2.49	0.66
1:N:342:HIS:O	1:N:342:HIS:ND1	2.28	0.66
1:P:179:LEU:HD11	1:P:481:GLY:HA2	1.78	0.66
1:T:179:LEU:HD11	1:T:481:GLY:HA2	1.78	0.66
1:4:342:HIS:O	1:4:342:HIS:ND1	2.28	0.66
1:6:416:ASN:OD1	1:b:371:GLN:NE2	2.29	0.66
1:e:132:THR:HG22	1:e:535:PRO:HD2	1.77	0.66
1:i:179:LEU:HD11	1:i:481:GLY:HA2	1.78	0.66
1:r:342:HIS:O	1:r:342:HIS:ND1	2.28	0.66
1:s:179:LEU:HD11	1:s:481:GLY:HA2	1.78	0.66
1:t:132:THR:HG22	1:t:535:PRO:HD2	1.77	0.66
1:t:342:HIS:CE1	1:v:406:ASN:OD1	2.49	0.66
1:u:342:HIS:O	1:u:342:HIS:ND1	2.28	0.66
1:A:342:HIS:O	1:A:342:HIS:ND1	2.28	0.66
1:F:132:THR:HG22	1:F:535:PRO:HD2	1.77	0.66
1:J:416:ASN:OD1	1:L:371:GLN:NE2	2.29	0.66
1:M:179:LEU:HD11	1:M:481:GLY:HA2	1.78	0.66
1:M:371:GLN:NE2	1:2:416:ASN:OD1	2.29	0.66
1:Q:67:LEU:HD11	1:Q:111:PHE:HD2	1.61	0.66
1:S:468:SER:HB3	1:S:474:ILE:HD11	1.75	0.66
1:V:287:THR:HG23	1:V:569:MET:CG	2.26	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:W:406:ASN:OD1	1:Y:342:HIS:CE1	2.49	0.66
1:Z:342:HIS:CE1	1:w:406:ASN:OD1	2.49	0.66
1:Z:406:ASN:OD1	1:x:342:HIS:CE1	2.49	0.66
1:3:342:HIS:CE1	1:j:406:ASN:OD1	2.49	0.66
1:c:416:ASN:OD1	1:d:371:GLN:NE2	2.29	0.66
1:d:132:THR:HG22	1:d:535:PRO:HD2	1.77	0.66
1:d:179:LEU:HD11	1:d:481:GLY:HA2	1.78	0.66
1:g:179:LEU:HD11	1:g:481:GLY:HA2	1.78	0.66
1:l:179:LEU:HD11	1:l:481:GLY:HA2	1.78	0.66
1:l:416:ASN:OD1	1:m:371:GLN:NE2	2.29	0.66
1:y:67:LEU:HD11	1:y:111:PHE:HD2	1.61	0.66
1:z:132:THR:HG22	1:z:535:PRO:HD2	1.77	0.66
1:7:342:HIS:O	1:7:342:HIS:ND1	2.28	0.66
1:0:287:THR:HG23	1:0:569:MET:CG	2.26	0.66
1:I:287:THR:HG23	1:I:569:MET:CG	2.26	0.66
1:J:132:THR:HG22	1:J:535:PRO:HD2	1.77	0.66
1:L:287:THR:HG23	1:L:569:MET:CG	2.26	0.66
1:R:371:GLN:NE2	1:U:416:ASN:OD1	2.29	0.66
1:R:416:ASN:OD1	1:S:371:GLN:NE2	2.29	0.66
1:S:132:THR:HG22	1:S:535:PRO:HD2	1.77	0.66
1:T:371:GLN:NE2	1:f:416:ASN:OD1	2.29	0.66
1:U:342:HIS:O	1:U:342:HIS:ND1	2.28	0.66
1:3:67:LEU:HD11	1:3:111:PHE:HD2	1.61	0.66
1:3:416:ASN:OD1	1:i:371:GLN:NE2	2.29	0.66
1:4:67:LEU:HD11	1:4:111:PHE:HD2	1.61	0.66
1:4:406:ASN:OD1	1:f:342:HIS:CE1	2.49	0.66
1:b:287:THR:HG23	1:b:569:MET:CG	2.26	0.66
1:f:67:LEU:HD11	1:f:111:PHE:HD2	1.61	0.66
1:g:132:THR:HG22	1:g:535:PRO:HD2	1.77	0.66
1:l:132:THR:HG22	1:l:535:PRO:HD2	1.77	0.66
1:n:67:LEU:HD11	1:n:111:PHE:HD2	1.61	0.66
1:n:371:GLN:NE2	1:p:416:ASN:OD1	2.29	0.66
1:t:287:THR:HG23	1:t:569:MET:CG	2.26	0.66
1:7:67:LEU:HD11	1:7:111:PHE:HD2	1.61	0.66
1:A:132:THR:HG22	1:A:535:PRO:HD2	1.77	0.66
1:A:568:THR:O	1:G:460:ASP:OD1	2.14	0.66
1:B:342:HIS:CE1	1:L:406:ASN:OD1	2.49	0.66
1:B:371:GLN:NE2	1:L:416:ASN:OD1	2.29	0.66
1:D:342:HIS:CE1	1:P:406:ASN:OD1	2.49	0.66
1:G:67:LEU:HD11	1:G:111:PHE:HD2	1.61	0.66
1:H:406:ASN:OD1	1:W:342:HIS:CE1	2.49	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:S:416:ASN:OD1	1:U:371:GLN:NE2	2.29	0.66
1:U:67:LEU:HD11	1:U:111:PHE:HD2	1.61	0.66
1:a:371:GLN:NE2	1:b:416:ASN:OD1	2.29	0.66
1:g:416:ASN:OD1	1:h:371:GLN:NE2	2.29	0.66
1:j:67:LEU:HD11	1:j:111:PHE:HD2	1.61	0.66
1:p:67:LEU:HD11	1:p:111:PHE:HD2	1.61	0.66
1:q:342:HIS:CE1	1:s:406:ASN:OD1	2.49	0.66
1:s:287:THR:HG23	1:s:569:MET:CG	2.26	0.66
1:y:371:GLN:NE2	1:7:416:ASN:OD1	2.29	0.66
1:z:287:THR:HG23	1:z:569:MET:CG	2.26	0.66
1:D:132:THR:HG22	1:D:535:PRO:HD2	1.77	0.65
1:E:67:LEU:HD11	1:E:111:PHE:HD2	1.61	0.65
1:E:409:PRO:O	1:Q:223:ILE:HD11	1.95	0.65
1:K:406:ASN:OD1	1:1:342:HIS:CE1	2.49	0.65
1:M:132:THR:HG22	1:M:535:PRO:HD2	1.77	0.65
1:P:287:THR:HG23	1:P:569:MET:CG	2.26	0.65
1:S:287:THR:HG23	1:S:569:MET:CG	2.26	0.65
1:X:67:LEU:HD11	1:X:111:PHE:HD2	1.61	0.65
1:6:132:THR:HG22	1:6:535:PRO:HD2	1.77	0.65
1:a:342:HIS:CE1	1:b:406:ASN:OD1	2.49	0.65
1:c:287:THR:HG23	1:c:569:MET:CG	2.26	0.65
1:g:287:THR:HG23	1:g:569:MET:CG	2.26	0.65
1:l:287:THR:HG23	1:l:569:MET:CG	2.26	0.65
1:n:416:ASN:OD1	1:o:371:GLN:NE2	2.29	0.65
1:u:132:THR:HG22	1:u:535:PRO:HD2	1.77	0.65
1:w:287:THR:HG23	1:w:569:MET:CG	2.26	0.65
1:w:342:HIS:CE1	1:x:406:ASN:OD1	2.49	0.65
1:y:416:ASN:OD1	1:z:371:GLN:NE2	2.29	0.65
1:D:416:ASN:OD1	1:N:371:GLN:NE2	2.29	0.65
1:F:223:ILE:HD11	1:Q:409:PRO:O	1.96	0.65
1:H:179:LEU:HD11	1:H:481:GLY:HA2	1.78	0.65
1:M:342:HIS:CE1	1:2:406:ASN:OD1	2.50	0.65
1:S:67:LEU:HD11	1:S:111:PHE:HD2	1.61	0.65
1:V:371:GLN:NE2	1:X:416:ASN:OD1	2.29	0.65
1:W:287:THR:HG23	1:W:569:MET:CG	2.26	0.65
1:X:342:HIS:CE1	1:5:406:ASN:OD1	2.50	0.65
1:1:416:ASN:OD1	1:0:371:GLN:NE2	2.29	0.65
1:2:287:THR:HG23	1:2:569:MET:CG	2.26	0.65
1:4:416:ASN:OD1	1:f:371:GLN:NE2	2.29	0.65
1:a:287:THR:HG23	1:a:569:MET:CG	2.26	0.65
1:c:406:ASN:OD1	1:d:342:HIS:CE1	2.50	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:d:67:LEU:HD11	1:d:111:PHE:HD2	1.61	0.65
1:f:132:THR:HG22	1:f:535:PRO:HD2	1.77	0.65
1:l:406:ASN:OD1	1:m:342:HIS:CE1	2.49	0.65
1:q:132:THR:HG22	1:q:535:PRO:HD2	1.77	0.65
1:v:67:LEU:HD11	1:v:111:PHE:HD2	1.61	0.65
1:x:342:HIS:O	1:x:342:HIS:ND1	2.28	0.65
1:z:67:LEU:HD11	1:z:111:PHE:HD2	1.61	0.65
1:z:416:ASN:OD1	1:7:371:GLN:NE2	2.29	0.65
1:A:179:LEU:HD11	1:A:481:GLY:HA2	1.78	0.65
1:B:287:THR:HG23	1:B:569:MET:CG	2.26	0.65
1:C:342:HIS:CE1	1:M:406:ASN:OD1	2.50	0.65
1:H:342:HIS:O	1:H:342:HIS:ND1	2.28	0.65
1:I:67:LEU:HD11	1:I:111:PHE:HD2	1.61	0.65
1:K:371:GLN:NE2	1:0:416:ASN:OD1	2.29	0.65
1:N:67:LEU:HD11	1:N:111:PHE:HD2	1.61	0.65
1:N:287:THR:HG23	1:N:569:MET:CG	2.26	0.65
1:O:371:GLN:NE2	1:h:416:ASN:OD1	2.29	0.65
1:T:342:HIS:CE1	1:f:406:ASN:OD1	2.49	0.65
1:V:132:THR:HG22	1:V:535:PRO:HD2	1.77	0.65
1:1:67:LEU:HD11	1:1:111:PHE:HD2	1.61	0.65
1:3:371:GLN:NE2	1:j:416:ASN:OD1	2.29	0.65
1:3:406:ASN:OD1	1:i:342:HIS:CE1	2.49	0.65
1:d:406:ASN:OD1	1:e:342:HIS:CE1	2.50	0.65
1:g:342:HIS:O	1:g:342:HIS:ND1	2.28	0.65
1:g:406:ASN:OD1	1:h:342:HIS:CE1	2.49	0.65
1:k:371:GLN:NE2	1:m:416:ASN:OD1	2.29	0.65
1:n:342:HIS:CE1	1:p:406:ASN:OD1	2.49	0.65
1:r:406:ASN:OD1	1:s:342:HIS:CE1	2.50	0.65
1:u:179:LEU:HD11	1:u:481:GLY:HA2	1.78	0.65
1:v:132:THR:HG22	1:v:535:PRO:HD2	1.77	0.65
1:x:179:LEU:HD11	1:x:481:GLY:HA2	1.78	0.65
1:G:132:THR:HG22	1:G:535:PRO:HD2	1.77	0.65
1:J:179:LEU:HD11	1:J:481:GLY:HA2	1.78	0.65
1:M:67:LEU:HD11	1:M:111:PHE:HD2	1.61	0.65
1:N:406:ASN:OD1	1:P:342:HIS:CE1	2.50	0.65
1:O:406:ASN:OD1	1:g:342:HIS:CE1	2.49	0.65
1:V:406:ASN:OD1	1:5:342:HIS:CE1	2.49	0.65
1:V:416:ASN:OD1	1:5:371:GLN:NE2	2.29	0.65
1:3:132:THR:HG22	1:3:535:PRO:HD2	1.77	0.65
1:5:67:LEU:HD11	1:5:111:PHE:HD2	1.61	0.65
1:6:179:LEU:HD11	1:6:481:GLY:HA2	1.78	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:a:67:LEU:HD11	1:a:111:PHE:HD2	1.61	0.65
1:i:406:ASN:OD1	1:j:342:HIS:CE1	2.49	0.65
1:k:406:ASN:OD1	1:l:342:HIS:CE1	2.49	0.65
1:l:67:LEU:HD11	1:l:111:PHE:HD2	1.61	0.65
1:l:342:HIS:O	1:l:342:HIS:ND1	2.28	0.65
1:q:416:ASN:OD1	1:r:371:GLN:NE2	2.29	0.65
1:r:287:THR:HG23	1:r:569:MET:CG	2.26	0.65
1:7:179:LEU:HD11	1:7:481:GLY:HA2	1.78	0.65
1:7:287:THR:HG23	1:7:569:MET:CG	2.26	0.65
1:0:132:THR:HG22	1:0:535:PRO:HD2	1.77	0.65
1:C:416:ASN:OD1	1:2:371:GLN:NE2	2.29	0.65
1:R:406:ASN:OD1	1:S:342:HIS:CE1	2.49	0.65
1:S:406:ASN:OD1	1:U:342:HIS:CE1	2.49	0.65
1:T:67:LEU:HD11	1:T:111:PHE:HD2	1.61	0.65
1:T:406:ASN:OD1	1:4:342:HIS:CE1	2.49	0.65
1:U:179:LEU:HD11	1:U:481:GLY:HA2	1.78	0.65
1:U:287:THR:HG23	1:U:569:MET:CG	2.26	0.65
1:X:371:GLN:NE2	1:5:416:ASN:OD1	2.29	0.65
1:e:67:LEU:HD11	1:e:111:PHE:HD2	1.61	0.65
1:g:67:LEU:HD11	1:g:111:PHE:HD2	1.61	0.65
1:i:67:LEU:HD11	1:i:111:PHE:HD2	1.61	0.65
1:o:67:LEU:HD11	1:o:111:PHE:HD2	1.61	0.65
1:r:67:LEU:HD11	1:r:111:PHE:HD2	1.61	0.65
1:t:67:LEU:HD11	1:t:111:PHE:HD2	1.61	0.65
1:v:287:THR:HG23	1:v:569:MET:CG	2.26	0.65
1:A:371:GLN:NE2	1:I:416:ASN:OD1	2.29	0.65
1:B:67:LEU:HD11	1:B:111:PHE:HD2	1.61	0.65
1:G:179:LEU:HD11	1:G:481:GLY:HA2	1.78	0.65
1:J:67:LEU:HD11	1:J:111:PHE:HD2	1.61	0.65
1:K:67:LEU:HD11	1:K:111:PHE:HD2	1.61	0.65
1:K:287:THR:HG23	1:K:569:MET:CG	2.26	0.65
1:K:342:HIS:CE1	1:0:406:ASN:OD1	2.49	0.65
1:K:416:ASN:OD1	1:1:371:GLN:NE2	2.29	0.65
1:R:287:THR:HG23	1:R:569:MET:CG	2.26	0.65
1:R:287:THR:HG21	1:R:569:MET:HE3	1.79	0.65
1:Y:287:THR:HG23	1:Y:569:MET:CG	2.26	0.65
1:4:179:LEU:HD11	1:4:481:GLY:HA2	1.78	0.65
1:5:287:THR:HG23	1:5:569:MET:CG	2.26	0.65
1:c:371:GLN:NE2	1:e:416:ASN:OD1	2.29	0.65
1:j:179:LEU:HD11	1:j:481:GLY:HA2	1.78	0.65
1:n:406:ASN:OD1	1:o:342:HIS:CE1	2.49	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:q:371:GLN:NE2	1:s:416:ASN:OD1	2.29	0.65
1:v:179:LEU:HD11	1:v:481:GLY:HA2	1.78	0.65
1:w:371:GLN:NE2	1:x:416:ASN:OD1	2.29	0.65
1:y:406:ASN:OD1	1:z:342:HIS:CE1	2.49	0.65
1:z:406:ASN:OD1	1:7:342:HIS:CE1	2.50	0.65
1:B:287:THR:HG21	1:B:569:MET:HE3	1.79	0.65
1:C:406:ASN:OD1	1:2:342:HIS:CE1	2.49	0.65
1:D:371:GLN:NE2	1:P:416:ASN:OD1	2.29	0.65
1:D:406:ASN:OD1	1:N:342:HIS:CE1	2.50	0.65
1:E:179:LEU:HD11	1:E:481:GLY:HA2	1.78	0.65
1:E:287:THR:HG23	1:E:569:MET:CG	2.26	0.65
1:F:67:LEU:HD11	1:F:111:PHE:HD2	1.61	0.65
1:G:287:THR:HG23	1:G:569:MET:CG	2.26	0.65
1:H:416:ASN:OD1	1:W:371:GLN:NE2	2.29	0.65
1:O:287:THR:HG23	1:O:569:MET:CG	2.26	0.65
1:W:568:THR:O	1:Y:460:ASP:OD1	2.15	0.65
1:Z:460:ASP:OD1	1:w:568:THR:O	2.15	0.65
1:2:287:THR:HG21	1:2:569:MET:HE3	1.79	0.65
1:4:287:THR:HG21	1:4:569:MET:HE3	1.79	0.65
1:6:287:THR:HG23	1:6:569:MET:CG	2.26	0.65
1:i:287:THR:HG23	1:i:569:MET:CG	2.26	0.65
1:j:287:THR:HG21	1:j:569:MET:HE3	1.79	0.65
1:k:287:THR:HG23	1:k:569:MET:CG	2.26	0.65
1:t:179:LEU:HD11	1:t:481:GLY:HA2	1.78	0.65
1:t:371:GLN:NE2	1:v:416:ASN:OD1	2.29	0.65
1:t:416:ASN:OD1	1:u:371:GLN:NE2	2.29	0.65
1:u:416:ASN:OD1	1:v:371:GLN:NE2	2.29	0.65
1:y:287:THR:HG21	1:y:569:MET:HE3	1.79	0.65
1:C:67:LEU:HD11	1:C:111:PHE:HD2	1.61	0.65
1:G:416:ASN:OD1	1:I:371:GLN:NE2	2.29	0.65
1:G:568:THR:O	1:I:460:ASP:OD1	2.15	0.65
1:I:179:LEU:HD11	1:I:481:GLY:HA2	1.78	0.65
1:J:287:THR:HG23	1:J:569:MET:CG	2.26	0.65
1:N:416:ASN:OD1	1:P:371:GLN:NE2	2.29	0.65
1:O:342:HIS:CE1	1:h:406:ASN:OD1	2.49	0.65
1:O:568:THR:O	1:g:460:ASP:OD1	2.15	0.65
1:Q:287:THR:HG23	1:Q:569:MET:CG	2.26	0.65
1:Q:287:THR:HG21	1:Q:569:MET:HE3	1.79	0.65
1:X:287:THR:HG23	1:X:569:MET:CG	2.26	0.65
1:Y:67:LEU:HD11	1:Y:111:PHE:HD2	1.61	0.65
1:Z:287:THR:HG23	1:Z:569:MET:CG	2.26	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1:287:THR:HG23	1:1:569:MET:CG	2.26	0.65
1:2:67:LEU:HD11	1:2:111:PHE:HD2	1.61	0.65
1:2:132:THR:HG22	1:2:535:PRO:HD2	1.77	0.65
1:6:67:LEU:HD11	1:6:111:PHE:HD2	1.61	0.65
1:a:287:THR:HG21	1:a:569:MET:HE3	1.79	0.65
1:c:287:THR:HG21	1:c:569:MET:HE3	1.79	0.65
1:h:342:HIS:O	1:h:342:HIS:ND1	2.28	0.65
1:n:287:THR:HG23	1:n:569:MET:CG	2.26	0.65
1:o:406:ASN:OD1	1:p:342:HIS:CE1	2.50	0.65
1:p:179:LEU:HD11	1:p:481:GLY:HA2	1.78	0.65
1:p:287:THR:HG23	1:p:569:MET:CG	2.26	0.65
1:q:67:LEU:HD11	1:q:111:PHE:HD2	1.61	0.65
1:t:406:ASN:OD1	1:u:342:HIS:CE1	2.49	0.65
1:t:460:ASP:OD1	1:v:568:THR:O	2.15	0.65
1:u:568:THR:O	1:v:460:ASP:OD1	2.15	0.65
1:D:67:LEU:HD11	1:D:111:PHE:HD2	1.61	0.65
1:F:287:THR:HG23	1:F:569:MET:CG	2.26	0.65
1:G:287:THR:HG21	1:G:569:MET:HE3	1.79	0.65
1:O:460:ASP:OD1	1:h:568:THR:O	2.15	0.65
1:T:287:THR:HG23	1:T:569:MET:CG	2.26	0.65
1:U:287:THR:HG21	1:U:569:MET:HE3	1.79	0.65
1:W:179:LEU:HD11	1:W:481:GLY:HA2	1.78	0.65
1:3:283:SER:H	1:3:286:HIS:CD2	2.15	0.65
1:6:371:GLN:NE2	1:a:416:ASN:OD1	2.29	0.65
1:c:67:LEU:HD11	1:c:111:PHE:HD2	1.61	0.65
1:c:132:THR:HG22	1:c:535:PRO:HD2	1.77	0.65
1:c:342:HIS:CE1	1:e:406:ASN:OD1	2.49	0.65
1:g:78:TYR:OH	1:g:105:GLN:NE2	2.30	0.65
1:h:78:TYR:OH	1:h:105:GLN:NE2	2.30	0.65
1:i:416:ASN:OD1	1:j:371:GLN:NE2	2.29	0.65
1:k:460:ASP:OD1	1:m:568:THR:O	2.15	0.65
1:k:568:THR:O	1:l:460:ASP:OD1	2.15	0.65
1:m:78:TYR:OH	1:m:105:GLN:NE2	2.30	0.65
1:m:342:HIS:O	1:m:342:HIS:ND1	2.28	0.65
1:n:287:THR:HG21	1:n:569:MET:HE3	1.79	0.65
1:o:416:ASN:OD1	1:p:371:GLN:NE2	2.29	0.65
1:q:287:THR:HG23	1:q:569:MET:CG	2.26	0.65
1:q:406:ASN:OD1	1:r:342:HIS:CE1	2.50	0.65
1:r:416:ASN:OD1	1:s:371:GLN:NE2	2.29	0.65
1:v:287:THR:HG21	1:v:569:MET:HE3	1.79	0.65
1:w:179:LEU:HD11	1:w:481:GLY:HA2	1.78	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:y:287:THR:HG23	1:y:569:MET:CG	2.26	0.65
1:z:287:THR:HG21	1:z:569:MET:HE3	1.79	0.65
1:7:287:THR:HG21	1:7:569:MET:HE3	1.79	0.65
1:0:287:THR:HG21	1:0:569:MET:HE3	1.79	0.65
1:B:78:TYR:OH	1:B:105:GLN:NE2	2.30	0.65
1:B:179:LEU:HD11	1:B:481:GLY:HA2	1.78	0.65
1:B:416:ASN:OD1	1:J:371:GLN:NE2	2.29	0.65
1:D:287:THR:HG23	1:D:569:MET:CG	2.26	0.65
1:H:460:ASP:OD1	1:Y:568:THR:O	2.15	0.65
1:J:78:TYR:OH	1:J:105:GLN:NE2	2.30	0.65
1:P:283:SER:H	1:P:286:HIS:CD2	2.15	0.65
1:S:78:TYR:OH	1:S:105:GLN:NE2	2.30	0.65
1:T:416:ASN:OD1	1:4:371:GLN:NE2	2.29	0.65
1:U:78:TYR:OH	1:U:105:GLN:NE2	2.30	0.65
1:V:287:THR:HG21	1:V:569:MET:HE3	1.79	0.65
1:W:416:ASN:OD1	1:Y:371:GLN:NE2	2.30	0.65
1:Z:67:LEU:HD11	1:Z:111:PHE:HD2	1.61	0.65
1:Z:371:GLN:NE2	1:w:416:ASN:OD1	2.30	0.65
1:Z:568:THR:O	1:x:460:ASP:OD1	2.15	0.65
1:2:179:LEU:HD11	1:2:481:GLY:HA2	1.78	0.65
1:6:78:TYR:OH	1:6:105:GLN:NE2	2.30	0.65
1:a:78:TYR:OH	1:a:105:GLN:NE2	2.30	0.65
1:a:179:LEU:HD11	1:a:481:GLY:HA2	1.78	0.65
1:c:179:LEU:HD11	1:c:481:GLY:HA2	1.78	0.65
1:f:283:SER:H	1:f:286:HIS:CD2	2.15	0.65
1:f:287:THR:HG23	1:f:569:MET:CG	2.26	0.65
1:k:342:HIS:CE1	1:m:406:ASN:OD1	2.49	0.65
1:l:78:TYR:OH	1:l:105:GLN:NE2	2.30	0.65
1:o:179:LEU:HD11	1:o:481:GLY:HA2	1.78	0.65
1:s:283:SER:H	1:s:286:HIS:CD2	2.15	0.65
1:u:406:ASN:OD1	1:v:342:HIS:CE1	2.49	0.65
1:y:78:TYR:OH	1:y:105:GLN:NE2	2.30	0.65
1:z:78:TYR:OH	1:z:105:GLN:NE2	2.30	0.65
1:z:179:LEU:HD11	1:z:481:GLY:HA2	1.78	0.65
1:7:78:TYR:OH	1:7:105:GLN:NE2	2.30	0.65
1:A:287:THR:HG23	1:A:569:MET:CG	2.26	0.64
1:A:406:ASN:OD1	1:G:342:HIS:CE1	2.50	0.64
1:B:568:THR:O	1:J:460:ASP:OD1	2.16	0.64
1:F:179:LEU:HD11	1:F:481:GLY:HA2	1.78	0.64
1:K:78:TYR:OH	1:K:105:GLN:NE2	2.30	0.64
1:M:283:SER:H	1:M:286:HIS:CD2	2.15	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:287:THR:HG23	1:M:569:MET:CG	2.26	0.64
1:N:287:THR:HG21	1:N:569:MET:HE3	1.79	0.64
1:O:416:ASN:OD1	1:g:371:GLN:NE2	2.30	0.64
1:Q:78:TYR:OH	1:Q:105:GLN:NE2	2.30	0.64
1:R:78:TYR:OH	1:R:105:GLN:NE2	2.30	0.64
1:S:287:THR:HG21	1:S:569:MET:HE3	1.79	0.64
1:3:287:THR:HG23	1:3:569:MET:CG	2.26	0.64
1:3:568:THR:O	1:i:460:ASP:OD1	2.15	0.64
1:g:287:THR:HG21	1:g:569:MET:HE3	1.79	0.64
1:o:287:THR:HG23	1:o:569:MET:CG	2.26	0.64
1:r:287:THR:HG21	1:r:569:MET:HE3	1.79	0.64
1:y:460:ASP:OD1	1:7:568:THR:O	2.15	0.64
1:D:287:THR:HG21	1:D:569:MET:HE3	1.79	0.64
1:O:67:LEU:HD11	1:O:111:PHE:HD2	1.61	0.64
1:R:342:HIS:CE1	1:U:406:ASN:OD1	2.49	0.64
1:R:460:ASP:OD1	1:U:568:THR:O	2.15	0.64
1:S:179:LEU:HD11	1:S:481:GLY:HA2	1.78	0.64
1:T:460:ASP:OD1	1:f:568:THR:O	2.15	0.64
1:U:132:THR:HG22	1:U:535:PRO:HD2	1.77	0.64
1:V:67:LEU:HD11	1:V:111:PHE:HD2	1.61	0.64
1:V:342:HIS:CE1	1:X:406:ASN:OD1	2.50	0.64
1:X:78:TYR:OH	1:X:105:GLN:NE2	2.30	0.64
1:1:78:TYR:OH	1:1:105:GLN:NE2	2.30	0.64
1:5:78:TYR:OH	1:5:105:GLN:NE2	2.30	0.64
1:6:460:ASP:OD1	1:a:568:THR:O	2.16	0.64
1:d:287:THR:HG23	1:d:569:MET:CG	2.26	0.64
1:k:416:ASN:OD1	1:l:371:GLN:NE2	2.30	0.64
1:l:287:THR:HG21	1:l:569:MET:HE3	1.79	0.64
1:n:78:TYR:OH	1:n:105:GLN:NE2	2.30	0.64
1:u:287:THR:HG23	1:u:569:MET:CG	2.26	0.64
1:w:287:THR:HG21	1:w:569:MET:HE3	1.79	0.64
1:y:342:HIS:CE1	1:7:406:ASN:OD1	2.50	0.64
1:C:78:TYR:OH	1:C:105:GLN:NE2	2.30	0.64
1:H:67:LEU:HD11	1:H:111:PHE:HD2	1.61	0.64
1:M:460:ASP:OD1	1:2:568:THR:O	2.15	0.64
1:N:78:TYR:OH	1:N:105:GLN:NE2	2.30	0.64
1:S:568:THR:O	1:U:460:ASP:OD1	2.16	0.64
1:W:287:THR:HG21	1:W:569:MET:HE3	1.79	0.64
1:1:406:ASN:OD1	1:0:342:HIS:CE1	2.50	0.64
1:6:568:THR:O	1:b:460:ASP:OD1	2.15	0.64
1:b:287:THR:HG21	1:b:569:MET:HE3	1.79	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:d:283:SER:H	1:d:286:HIS:CD2	2.15	0.64
1:e:78:TYR:OH	1:e:105:GLN:NE2	2.30	0.64
1:e:287:THR:HG23	1:e:569:MET:CG	2.26	0.64
1:h:179:LEU:HD11	1:h:481:GLY:HA2	1.78	0.64
1:k:67:LEU:HD11	1:k:111:PHE:HD2	1.61	0.64
1:q:287:THR:HG21	1:q:569:MET:HE3	1.79	0.64
1:v:78:TYR:OH	1:v:105:GLN:NE2	2.30	0.64
1:y:568:THR:O	1:z:460:ASP:OD1	2.15	0.64
1:7:132:THR:HG22	1:7:535:PRO:HD2	1.77	0.64
1:0:67:LEU:HD11	1:0:111:PHE:HD2	1.61	0.64
1:A:287:THR:HG21	1:A:569:MET:HE3	1.79	0.64
1:E:568:THR:O	1:Q:460:ASP:OD1	2.14	0.64
1:G:78:TYR:OH	1:G:105:GLN:NE2	2.30	0.64
1:J:568:THR:O	1:L:460:ASP:OD1	2.15	0.64
1:K:179:LEU:HD11	1:K:481:GLY:HA2	1.78	0.64
1:L:287:THR:HG21	1:L:569:MET:HE3	1.79	0.64
1:R:568:THR:O	1:S:460:ASP:OD1	2.15	0.64
1:5:179:LEU:HD11	1:5:481:GLY:HA2	1.78	0.64
1:c:78:TYR:OH	1:c:105:GLN:NE2	2.30	0.64
1:c:568:THR:O	1:d:460:ASP:OD1	2.16	0.64
1:d:416:ASN:OD1	1:e:371:GLN:NE2	2.29	0.64
1:h:287:THR:HG23	1:h:569:MET:CG	2.26	0.64
1:m:179:LEU:HD11	1:m:481:GLY:HA2	1.78	0.64
1:s:67:LEU:HD11	1:s:111:PHE:HD2	1.61	0.64
1:u:287:THR:HG21	1:u:569:MET:HE3	1.79	0.64
1:x:67:LEU:HD11	1:x:111:PHE:HD2	1.61	0.64
1:z:568:THR:O	1:7:460:ASP:OD1	2.16	0.64
1:A:78:TYR:OH	1:A:105:GLN:NE2	2.30	0.64
1:C:118:TRP:HB2	1:C:449:TYR:O	1.98	0.64
1:C:287:THR:HG23	1:C:569:MET:CG	2.26	0.64
1:C:371:GLN:NE2	1:M:416:ASN:OD1	2.29	0.64
1:E:78:TYR:OH	1:E:105:GLN:NE2	2.30	0.64
1:H:287:THR:HG23	1:H:569:MET:CG	2.26	0.64
1:J:406:ASN:OD1	1:L:342:HIS:CE1	2.50	0.64
1:O:78:TYR:OH	1:O:105:GLN:NE2	2.30	0.64
1:P:67:LEU:HD11	1:P:111:PHE:HD2	1.61	0.64
1:2:78:TYR:OH	1:2:105:GLN:NE2	2.30	0.64
1:6:118:TRP:HB2	1:6:449:TYR:O	1.98	0.64
1:6:406:ASN:OD1	1:b:342:HIS:CE1	2.50	0.64
1:c:460:ASP:OD1	1:e:568:THR:O	2.15	0.64
1:d:568:THR:O	1:e:460:ASP:OD1	2.15	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:e:118:TRP:HB2	1:e:449:TYR:O	1.98	0.64
1:f:287:THR:HG21	1:f:569:MET:HE3	1.79	0.64
1:g:568:THR:O	1:h:460:ASP:OD1	2.15	0.64
1:h:283:SER:H	1:h:286:HIS:CD2	2.15	0.64
1:l:568:THR:O	1:m:460:ASP:OD1	2.15	0.64
1:m:287:THR:HG23	1:m:569:MET:CG	2.26	0.64
1:m:287:THR:HG21	1:m:569:MET:HE3	1.79	0.64
1:o:78:TYR:OH	1:o:105:GLN:NE2	2.30	0.64
1:r:78:TYR:OH	1:r:105:GLN:NE2	2.30	0.64
1:x:287:THR:HG23	1:x:569:MET:CG	2.26	0.64
1:C:460:ASP:OD1	1:M:568:THR:O	2.15	0.64
1:F:78:TYR:OH	1:F:105:GLN:NE2	2.30	0.64
1:J:118:TRP:HB2	1:J:449:TYR:O	1.98	0.64
1:M:78:TYR:OH	1:M:105:GLN:NE2	2.30	0.64
1:N:118:TRP:HB2	1:N:449:TYR:O	1.98	0.64
1:O:179:LEU:HD11	1:O:481:GLY:HA2	1.78	0.64
1:R:118:TRP:HB2	1:R:449:TYR:O	1.98	0.64
1:R:179:LEU:HD11	1:R:481:GLY:HA2	1.78	0.64
1:S:283:SER:H	1:S:286:HIS:CD2	2.15	0.64
1:X:287:THR:HG21	1:X:569:MET:HE3	1.79	0.64
1:1:287:THR:HG21	1:1:569:MET:HE3	1.79	0.64
1:3:287:THR:HG21	1:3:569:MET:HE3	1.79	0.64
1:d:78:TYR:OH	1:d:105:GLN:NE2	2.30	0.64
1:i:568:THR:O	1:j:460:ASP:OD1	2.15	0.64
1:k:78:TYR:OH	1:k:105:GLN:NE2	2.30	0.64
1:p:78:TYR:OH	1:p:105:GLN:NE2	2.30	0.64
1:q:283:SER:H	1:q:286:HIS:CD2	2.15	0.64
1:s:118:TRP:HB2	1:s:449:TYR:O	1.98	0.64
1:u:78:TYR:OH	1:u:105:GLN:NE2	2.30	0.64
1:y:179:LEU:HD11	1:y:481:GLY:HA2	1.78	0.64
1:B:406:ASN:OD1	1:J:342:HIS:CE1	2.50	0.64
1:C:568:THR:O	1:2:460:ASP:OD1	2.15	0.64
1:D:283:SER:H	1:D:286:HIS:CD2	2.15	0.64
1:E:371:GLN:NE2	1:F:416:ASN:OD1	2.30	0.64
1:P:118:TRP:HB2	1:P:449:TYR:O	1.98	0.64
1:T:568:THR:O	1:4:460:ASP:OD1	2.15	0.64
1:V:179:LEU:HD11	1:V:481:GLY:HA2	1.78	0.64
1:3:460:ASP:OD1	1:j:568:THR:O	2.15	0.64
1:4:287:THR:HG23	1:4:569:MET:CG	2.26	0.64
1:4:568:THR:O	1:f:460:ASP:OD1	2.15	0.64
1:6:342:HIS:CE1	1:a:406:ASN:OD1	2.50	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:f:179:LEU:HD11	1:f:481:GLY:HA2	1.78	0.64
1:h:287:THR:HG21	1:h:569:MET:HE3	1.79	0.64
1:j:287:THR:HG23	1:j:569:MET:CG	2.26	0.64
1:k:179:LEU:HD11	1:k:481:GLY:HA2	1.78	0.64
1:r:118:TRP:HB2	1:r:449:TYR:O	1.98	0.64
1:y:118:TRP:HB2	1:y:449:TYR:O	1.98	0.64
1:z:283:SER:H	1:z:286:HIS:CD2	2.15	0.64
1:0:78:TYR:OH	1:0:105:GLN:NE2	2.30	0.64
1:0:179:LEU:HD11	1:0:481:GLY:HA2	1.78	0.64
1:D:118:TRP:HB2	1:D:449:TYR:O	1.98	0.64
1:H:287:THR:HG21	1:H:569:MET:HE3	1.79	0.64
1:K:287:THR:HG21	1:K:569:MET:HE3	1.79	0.64
1:Q:179:LEU:HD11	1:Q:481:GLY:HA2	1.78	0.64
1:V:78:TYR:OH	1:V:105:GLN:NE2	2.30	0.64
1:3:179:LEU:HD11	1:3:481:GLY:HA2	1.78	0.64
1:6:287:THR:HG21	1:6:569:MET:HE3	1.79	0.64
1:b:67:LEU:HD11	1:b:111:PHE:HD2	1.61	0.64
1:g:118:TRP:HB2	1:g:449:TYR:O	1.98	0.64
1:q:118:TRP:HB2	1:q:449:TYR:O	1.98	0.64
1:x:287:THR:HG21	1:x:569:MET:HE3	1.79	0.64
1:D:179:LEU:HD11	1:D:481:GLY:HA2	1.78	0.64
1:G:118:TRP:HB2	1:G:449:TYR:O	1.98	0.64
1:H:78:TYR:OH	1:H:105:GLN:NE2	2.30	0.64
1:J:287:THR:HG21	1:J:569:MET:HE3	1.79	0.64
1:L:78:TYR:OH	1:L:105:GLN:NE2	2.30	0.64
1:P:287:THR:HG21	1:P:569:MET:HE3	1.79	0.64
1:W:118:TRP:HB2	1:W:449:TYR:O	1.98	0.64
1:X:179:LEU:HD11	1:X:481:GLY:HA2	1.78	0.64
1:Y:179:LEU:HD11	1:Y:481:GLY:HA2	1.78	0.64
1:Z:179:LEU:HD11	1:Z:481:GLY:HA2	1.78	0.64
1:1:179:LEU:HD11	1:1:481:GLY:HA2	1.78	0.64
1:3:78:TYR:OH	1:3:105:GLN:NE2	2.30	0.64
1:5:287:THR:HG21	1:5:569:MET:HE3	1.79	0.64
1:b:78:TYR:OH	1:b:105:GLN:NE2	2.30	0.64
1:i:287:THR:HG21	1:i:569:MET:HE3	1.79	0.64
1:l:118:TRP:HB2	1:l:449:TYR:O	1.98	0.64
1:m:67:LEU:HD11	1:m:111:PHE:HD2	1.61	0.64
1:n:179:LEU:HD11	1:n:481:GLY:HA2	1.78	0.64
1:s:287:THR:HG21	1:s:569:MET:HE3	1.79	0.64
1:v:118:TRP:HB2	1:v:449:TYR:O	1.98	0.64
1:w:118:TRP:HB2	1:w:449:TYR:O	1.98	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:x:78:TYR:OH	1:x:105:GLN:NE2	2.30	0.64
1:A:118:TRP:HB2	1:A:449:TYR:O	1.98	0.64
1:A:342:HIS:CE1	1:I:406:ASN:OD1	2.51	0.64
1:I:78:TYR:OH	1:I:105:GLN:NE2	2.30	0.64
1:L:67:LEU:HD11	1:L:111:PHE:HD2	1.61	0.64
1:R:283:SER:H	1:R:286:HIS:CD2	2.15	0.64
1:S:118:TRP:HB2	1:S:449:TYR:O	1.98	0.64
1:U:118:TRP:HB2	1:U:449:TYR:O	1.98	0.64
1:V:568:THR:O	1:5:460:ASP:OD1	2.15	0.64
1:f:78:TYR:OH	1:f:105:GLN:NE2	2.30	0.64
1:n:568:THR:O	1:o:460:ASP:OD1	2.16	0.64
1:q:78:TYR:OH	1:q:105:GLN:NE2	2.30	0.64
1:q:179:LEU:HD11	1:q:481:GLY:HA2	1.78	0.64
1:t:78:TYR:OH	1:t:105:GLN:NE2	2.30	0.64
1:w:67:LEU:HD11	1:w:111:PHE:HD2	1.61	0.64
1:z:118:TRP:HB2	1:z:449:TYR:O	1.98	0.64
1:7:118:TRP:HB2	1:7:449:TYR:O	1.98	0.64
1:C:287:THR:HG21	1:C:569:MET:HE3	1.79	0.63
1:D:78:TYR:OH	1:D:105:GLN:NE2	2.30	0.63
1:F:118:TRP:HB2	1:F:449:TYR:O	1.98	0.63
1:K:460:ASP:OD1	1:0:568:THR:O	2.15	0.63
1:L:179:LEU:HD11	1:L:481:GLY:HA2	1.78	0.63
1:T:287:THR:HG21	1:T:569:MET:HE3	1.79	0.63
1:Y:78:TYR:OH	1:Y:105:GLN:NE2	2.30	0.63
1:b:179:LEU:HD11	1:b:481:GLY:HA2	1.78	0.63
1:c:283:SER:H	1:c:286:HIS:CD2	2.15	0.63
1:h:67:LEU:HD11	1:h:111:PHE:HD2	1.61	0.63
1:j:78:TYR:OH	1:j:105:GLN:NE2	2.30	0.63
1:k:118:TRP:HB2	1:k:449:TYR:O	1.98	0.63
1:k:287:THR:HG21	1:k:569:MET:HE3	1.79	0.63
1:l:283:SER:H	1:l:286:HIS:CD2	2.15	0.63
1:n:460:ASP:OD1	1:p:568:THR:O	2.15	0.63
1:p:287:THR:HG21	1:p:569:MET:HE3	1.79	0.63
1:u:118:TRP:HB2	1:u:449:TYR:O	1.98	0.63
1:y:283:SER:H	1:y:286:HIS:CD2	2.15	0.63
1:B:118:TRP:HB2	1:B:449:TYR:O	1.98	0.63
1:G:283:SER:H	1:G:286:HIS:CD2	2.15	0.63
1:H:118:TRP:HB2	1:H:449:TYR:O	1.98	0.63
1:O:118:TRP:HB2	1:O:449:TYR:O	1.98	0.63
1:O:287:THR:HG21	1:O:569:MET:HE3	1.79	0.63
1:W:67:LEU:HD11	1:W:111:PHE:HD2	1.61	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Z:78:TYR:OH	1:Z:105:GLN:NE2	2.30	0.63
1:c:118:TRP:HB2	1:c:449:TYR:O	1.98	0.63
1:e:287:THR:HG21	1:e:569:MET:HE3	1.79	0.63
1:g:283:SER:H	1:g:286:HIS:CD2	2.15	0.63
1:o:568:THR:O	1:p:460:ASP:OD1	2.16	0.63
1:r:179:LEU:HD11	1:r:481:GLY:HA2	1.78	0.63
1:s:78:TYR:OH	1:s:105:GLN:NE2	2.30	0.63
1:x:118:TRP:HB2	1:x:449:TYR:O	1.98	0.63
1:E:283:SER:HB3	1:E:403:GLY:HA2	1.81	0.63
1:E:287:THR:HG21	1:E:569:MET:HE3	1.79	0.63
1:N:179:LEU:HD11	1:N:481:GLY:HA2	1.78	0.63
1:N:568:THR:O	1:P:460:ASP:OD1	2.16	0.63
1:P:78:TYR:OH	1:P:105:GLN:NE2	2.30	0.63
1:Q:118:TRP:HB2	1:Q:449:TYR:O	1.98	0.63
1:X:118:TRP:HB2	1:X:449:TYR:O	1.98	0.63
1:Z:287:THR:HG21	1:Z:569:MET:HE3	1.79	0.63
1:1:118:TRP:HB2	1:1:449:TYR:O	1.98	0.63
1:4:78:TYR:OH	1:4:105:GLN:NE2	2.30	0.63
1:a:118:TRP:HB2	1:a:449:TYR:O	1.98	0.63
1:a:283:SER:HB3	1:a:403:GLY:HA2	1.81	0.63
1:n:118:TRP:HB2	1:n:449:TYR:O	1.98	0.63
1:o:287:THR:HG21	1:o:569:MET:HE3	1.79	0.63
1:p:283:SER:HB3	1:p:403:GLY:HA2	1.81	0.63
1:v:283:SER:H	1:v:286:HIS:CD2	2.15	0.63
1:w:78:TYR:OH	1:w:105:GLN:NE2	2.30	0.63
1:B:283:SER:HB3	1:B:403:GLY:HA2	1.81	0.63
1:C:179:LEU:HD11	1:C:481:GLY:HA2	1.78	0.63
1:F:287:THR:HG21	1:F:569:MET:HE3	1.79	0.63
1:M:287:THR:HG21	1:M:569:MET:HE3	1.79	0.63
1:Y:118:TRP:HB2	1:Y:449:TYR:O	1.98	0.63
1:2:118:TRP:HB2	1:2:449:TYR:O	1.98	0.63
1:2:283:SER:H	1:2:286:HIS:CD2	2.15	0.63
1:e:179:LEU:HD11	1:e:481:GLY:HA2	1.78	0.63
1:f:118:TRP:HB2	1:f:449:TYR:O	1.98	0.63
1:g:283:SER:HB3	1:g:403:GLY:HA2	1.81	0.63
1:h:118:TRP:HB2	1:h:449:TYR:O	1.98	0.63
1:l:283:SER:HB3	1:l:403:GLY:HA2	1.81	0.63
1:o:118:TRP:HB2	1:o:449:TYR:O	1.98	0.63
1:r:568:THR:O	1:s:460:ASP:OD1	2.16	0.63
1:E:460:ASP:OD1	1:F:568:THR:O	2.16	0.63
1:T:78:TYR:OH	1:T:105:GLN:NE2	2.30	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:U:283:SER:H	1:U:286:HIS:CD2	2.15	0.63
1:V:118:TRP:HB2	1:V:449:TYR:O	1.98	0.63
1:W:78:TYR:OH	1:W:105:GLN:NE2	2.30	0.63
1:Y:287:THR:HG21	1:Y:569:MET:HE3	1.79	0.63
1:Z:118:TRP:HB2	1:Z:449:TYR:O	1.98	0.63
1:3:118:TRP:HB2	1:3:449:TYR:O	1.98	0.63
1:3:283:SER:HB3	1:3:403:GLY:HA2	1.81	0.63
1:5:283:SER:HB3	1:5:403:GLY:HA2	1.81	0.63
1:a:460:ASP:OD1	1:b:568:THR:O	2.15	0.63
1:f:283:SER:HB3	1:f:403:GLY:HA2	1.81	0.63
1:i:78:TYR:OH	1:i:105:GLN:NE2	2.30	0.63
1:m:118:TRP:HB2	1:m:449:TYR:O	1.98	0.63
1:m:283:SER:HB3	1:m:403:GLY:HA2	1.81	0.63
1:u:67:LEU:HD11	1:u:111:PHE:HD2	1.61	0.63
1:7:283:SER:H	1:7:286:HIS:CD2	2.15	0.63
1:0:283:SER:HB3	1:0:403:GLY:HA2	1.81	0.63
1:K:283:SER:HB3	1:K:403:GLY:HA2	1.81	0.63
1:V:283:SER:HB3	1:V:403:GLY:HA2	1.81	0.63
1:1:283:SER:HB3	1:1:403:GLY:HA2	1.81	0.63
1:6:283:SER:HB3	1:6:403:GLY:HA2	1.81	0.63
1:h:283:SER:HB3	1:h:403:GLY:HA2	1.81	0.63
1:k:111:PHE:HD1	1:k:209:GLN:HA	1.64	0.63
1:0:118:TRP:HB2	1:0:449:TYR:O	1.98	0.63
1:A:67:LEU:HD11	1:A:111:PHE:HD2	1.61	0.63
1:B:460:ASP:OD1	1:L:568:THR:O	2.16	0.63
1:D:283:SER:HB3	1:D:403:GLY:HA2	1.81	0.63
1:D:460:ASP:OD1	1:P:568:THR:O	2.15	0.63
1:J:283:SER:HB3	1:J:403:GLY:HA2	1.81	0.63
1:O:111:PHE:HD1	1:O:209:GLN:HA	1.64	0.63
1:Q:283:SER:HB3	1:Q:403:GLY:HA2	1.81	0.63
1:X:283:SER:HB3	1:X:403:GLY:HA2	1.81	0.63
1:1:111:PHE:HD1	1:1:209:GLN:HA	1.64	0.63
1:4:283:SER:H	1:4:286:HIS:CD2	2.15	0.63
1:d:287:THR:HG21	1:d:569:MET:HE3	1.79	0.63
1:o:283:SER:HB3	1:o:403:GLY:HA2	1.81	0.63
1:p:283:SER:H	1:p:286:HIS:CD2	2.15	0.63
1:t:283:SER:HB3	1:t:403:GLY:HA2	1.81	0.63
1:A:460:ASP:OD1	1:I:568:THR:O	2.15	0.63
1:C:111:PHE:HD1	1:C:209:GLN:HA	1.64	0.63
1:I:283:SER:HB3	1:I:403:GLY:HA2	1.81	0.63
1:L:283:SER:HB3	1:L:403:GLY:HA2	1.81	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:O:283:SER:H	1:O:286:HIS:CD2	2.15	0.63
1:X:111:PHE:HD1	1:X:209:GLN:HA	1.64	0.63
1:1:568:THR:O	1:0:460:ASP:OD1	2.16	0.63
1:2:111:PHE:HD1	1:2:209:GLN:HA	1.64	0.63
1:e:111:PHE:HD1	1:e:209:GLN:HA	1.64	0.63
1:g:111:PHE:HD1	1:g:209:GLN:HA	1.64	0.63
1:i:118:TRP:HB2	1:i:449:TYR:O	1.98	0.63
1:j:283:SER:H	1:j:286:HIS:CD2	2.15	0.63
1:l:111:PHE:HD1	1:l:209:GLN:HA	1.64	0.63
1:n:111:PHE:HD1	1:n:209:GLN:HA	1.64	0.63
1:n:283:SER:HB3	1:n:403:GLY:HA2	1.81	0.63
1:q:283:SER:HB3	1:q:403:GLY:HA2	1.81	0.63
1:t:287:THR:HG21	1:t:569:MET:HE3	1.79	0.63
1:E:283:SER:H	1:E:286:HIS:CD2	2.15	0.63
1:F:283:SER:HB3	1:F:403:GLY:HA2	1.81	0.63
1:G:111:PHE:HD1	1:G:209:GLN:HA	1.64	0.63
1:H:568:THR:O	1:W:460:ASP:OD1	2.15	0.63
1:I:287:THR:HG21	1:I:569:MET:HE3	1.79	0.63
1:L:118:TRP:HB2	1:L:449:TYR:O	1.98	0.63
1:N:111:PHE:HD1	1:N:209:GLN:HA	1.64	0.63
1:Q:111:PHE:HD1	1:Q:209:GLN:HA	1.64	0.63
1:T:111:PHE:HD1	1:T:209:GLN:HA	1.64	0.63
1:T:118:TRP:HB2	1:T:449:TYR:O	1.98	0.63
1:5:111:PHE:HD1	1:5:209:GLN:HA	1.64	0.63
1:b:283:SER:HB3	1:b:403:GLY:HA2	1.81	0.63
1:c:111:PHE:HD1	1:c:209:GLN:HA	1.64	0.63
1:c:283:SER:HB3	1:c:403:GLY:HA2	1.81	0.63
1:k:283:SER:H	1:k:286:HIS:CD2	2.15	0.63
1:q:460:ASP:OD1	1:s:568:THR:O	2.15	0.63
1:r:111:PHE:HD1	1:r:209:GLN:HA	1.64	0.63
1:s:111:PHE:HD1	1:s:209:GLN:HA	1.64	0.63
1:B:283:SER:H	1:B:286:HIS:CD2	2.15	0.62
1:K:111:PHE:HD1	1:K:209:GLN:HA	1.64	0.62
1:K:568:THR:O	1:1:460:ASP:OD1	2.16	0.62
1:P:111:PHE:HD1	1:P:209:GLN:HA	1.64	0.62
1:V:460:ASP:OD1	1:X:568:THR:O	2.16	0.62
1:Y:335:SER:N	1:Y:435:THR:HG22	2.12	0.62
1:2:283:SER:HB3	1:2:403:GLY:HA2	1.81	0.62
1:4:118:TRP:HB2	1:4:449:TYR:O	1.98	0.62
1:b:118:TRP:HB2	1:b:449:TYR:O	1.98	0.62
1:k:283:SER:HB3	1:k:403:GLY:HA2	1.81	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:r:283:SER:H	1:r:286:HIS:CD2	2.15	0.62
1:t:111:PHE:HD1	1:t:209:GLN:HA	1.64	0.62
1:v:111:PHE:HD1	1:v:209:GLN:HA	1.64	0.62
1:w:460:ASP:OD1	1:x:568:THR:O	2.15	0.62
1:z:283:SER:HB3	1:z:403:GLY:HA2	1.81	0.62
1:A:111:PHE:HD1	1:A:209:GLN:HA	1.64	0.62
1:B:111:PHE:HD1	1:B:209:GLN:HA	1.64	0.62
1:I:111:PHE:HD1	1:I:209:GLN:HA	1.64	0.62
1:N:283:SER:HB3	1:N:403:GLY:HA2	1.81	0.62
1:O:283:SER:HB3	1:O:403:GLY:HA2	1.81	0.62
1:S:283:SER:HB3	1:S:403:GLY:HA2	1.81	0.62
1:a:111:PHE:HD1	1:a:209:GLN:HA	1.64	0.62
1:h:111:PHE:HD1	1:h:209:GLN:HA	1.64	0.62
1:h:335:SER:N	1:h:435:THR:HG22	2.12	0.62
1:i:111:PHE:HD1	1:i:209:GLN:HA	1.64	0.62
1:m:111:PHE:HD1	1:m:209:GLN:HA	1.64	0.62
1:m:335:SER:N	1:m:435:THR:HG22	2.12	0.62
1:D:111:PHE:HD1	1:D:209:GLN:HA	1.64	0.62
1:N:283:SER:H	1:N:286:HIS:CD2	2.15	0.62
1:S:63:ARG:HG3	1:S:197:LEU:HD23	1.82	0.62
1:W:111:PHE:HD1	1:W:209:GLN:HA	1.64	0.62
1:X:460:ASP:OD1	1:5:568:THR:O	2.16	0.62
1:Z:335:SER:N	1:Z:435:THR:HG22	2.12	0.62
1:6:63:ARG:HG3	1:6:197:LEU:HD23	1.81	0.62
1:a:283:SER:H	1:a:286:HIS:CD2	2.15	0.62
1:d:118:TRP:HB2	1:d:449:TYR:O	1.98	0.62
1:j:118:TRP:HB2	1:j:449:TYR:O	1.98	0.62
1:o:111:PHE:HD1	1:o:209:GLN:HA	1.64	0.62
1:q:111:PHE:HD1	1:q:209:GLN:HA	1.64	0.62
1:q:568:THR:O	1:r:460:ASP:OD1	2.16	0.62
1:r:283:SER:HB3	1:r:403:GLY:HA2	1.81	0.62
1:t:118:TRP:HB2	1:t:449:TYR:O	1.98	0.62
1:t:568:THR:O	1:u:460:ASP:OD1	2.15	0.62
1:u:111:PHE:HD1	1:u:209:GLN:HA	1.64	0.62
1:u:283:SER:HB3	1:u:403:GLY:HA2	1.81	0.62
1:A:283:SER:HB3	1:A:403:GLY:HA2	1.81	0.62
1:I:118:TRP:HB2	1:I:449:TYR:O	1.98	0.62
1:J:63:ARG:HG3	1:J:197:LEU:HD23	1.81	0.62
1:J:111:PHE:HD1	1:J:209:GLN:HA	1.64	0.62
1:K:118:TRP:HB2	1:K:449:TYR:O	1.98	0.62
1:M:118:TRP:HB2	1:M:449:TYR:O	1.98	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:281:TRP:CE3	1:P:215:ASN:HB3	2.35	0.62
1:4:63:ARG:HG3	1:4:197:LEU:HD23	1.82	0.62
1:5:118:TRP:HB2	1:5:449:TYR:O	1.98	0.62
1:j:63:ARG:HG3	1:j:197:LEU:HD23	1.82	0.62
1:z:63:ARG:HG3	1:z:197:LEU:HD23	1.82	0.62
1:D:568:THR:O	1:N:460:ASP:OD1	2.16	0.62
1:E:118:TRP:HB2	1:E:449:TYR:O	1.98	0.62
1:F:111:PHE:HD1	1:F:209:GLN:HA	1.64	0.62
1:M:283:SER:HB3	1:M:403:GLY:HA2	1.81	0.62
1:N:63:ARG:HG3	1:N:197:LEU:HD23	1.82	0.62
1:b:63:ARG:HG3	1:b:197:LEU:HD23	1.82	0.62
1:k:63:ARG:HG3	1:k:197:LEU:HD23	1.82	0.62
1:r:63:ARG:HG3	1:r:197:LEU:HD23	1.82	0.62
1:r:281:TRP:CE3	1:s:215:ASN:HB3	2.35	0.62
1:w:111:PHE:HD1	1:w:209:GLN:HA	1.64	0.62
1:x:283:SER:H	1:x:286:HIS:CD2	2.15	0.62
1:A:131:THR:HG22	1:A:563:CYS:SG	2.40	0.62
1:L:63:ARG:HG3	1:L:197:LEU:HD23	1.82	0.62
1:O:63:ARG:HG3	1:O:197:LEU:HD23	1.82	0.62
1:P:63:ARG:HG3	1:P:197:LEU:HD23	1.82	0.62
1:V:283:SER:H	1:V:286:HIS:CD2	2.15	0.62
1:6:111:PHE:HD1	1:6:209:GLN:HA	1.64	0.62
1:b:111:PHE:HD1	1:b:209:GLN:HA	1.64	0.62
1:p:118:TRP:HB2	1:p:449:TYR:O	1.98	0.62
1:s:63:ARG:HG3	1:s:197:LEU:HD23	1.82	0.62
1:u:131:THR:HG22	1:u:563:CYS:SG	2.40	0.62
1:C:63:ARG:HG3	1:C:197:LEU:HD23	1.81	0.62
1:C:131:THR:HG22	1:C:563:CYS:SG	2.40	0.62
1:G:131:THR:HG22	1:G:563:CYS:SG	2.40	0.62
1:L:111:PHE:HD1	1:L:209:GLN:HA	1.64	0.62
1:U:283:SER:HB3	1:U:403:GLY:HA2	1.81	0.62
1:Z:111:PHE:HD1	1:Z:209:GLN:HA	1.64	0.62
1:1:131:THR:HG22	1:1:563:CYS:SG	2.40	0.62
1:c:63:ARG:HG3	1:c:197:LEU:HD23	1.82	0.62
1:d:283:SER:HB3	1:d:403:GLY:HA2	1.81	0.62
1:h:131:THR:HG22	1:h:563:CYS:SG	2.40	0.62
1:i:283:SER:HB3	1:i:403:GLY:HA2	1.81	0.62
1:l:63:ARG:HG3	1:l:197:LEU:HD23	1.81	0.62
1:m:131:THR:HG22	1:m:563:CYS:SG	2.40	0.62
1:7:283:SER:HB3	1:7:403:GLY:HA2	1.81	0.62
1:H:283:SER:H	1:H:286:HIS:CD2	2.15	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:131:THR:HG22	1:M:563:CYS:SG	2.40	0.62
1:R:283:SER:HB3	1:R:403:GLY:HA2	1.81	0.62
1:T:283:SER:HB3	1:T:403:GLY:HA2	1.81	0.62
1:W:283:SER:H	1:W:286:HIS:CD2	2.15	0.62
1:X:131:THR:HG22	1:X:563:CYS:SG	2.40	0.62
1:2:63:ARG:HG3	1:2:197:LEU:HD23	1.82	0.62
1:3:63:ARG:HG3	1:3:197:LEU:HD23	1.82	0.62
1:d:63:ARG:HG3	1:d:197:LEU:HD23	1.82	0.62
1:d:131:THR:HG22	1:d:563:CYS:SG	2.40	0.62
1:e:131:THR:HG22	1:e:563:CYS:SG	2.40	0.62
1:q:131:THR:HG22	1:q:563:CYS:SG	2.40	0.62
1:v:131:THR:HG22	1:v:563:CYS:SG	2.40	0.62
1:y:215:ASN:HB3	1:7:281:TRP:CE3	2.35	0.62
1:y:283:SER:HB3	1:y:403:GLY:HA2	1.81	0.62
1:0:283:SER:H	1:0:286:HIS:CD2	2.15	0.62
1:D:131:THR:HG22	1:D:563:CYS:SG	2.40	0.62
1:M:63:ARG:HG3	1:M:197:LEU:HD23	1.82	0.62
1:R:215:ASN:HB3	1:U:281:TRP:CE3	2.35	0.62
1:Y:111:PHE:HD1	1:Y:209:GLN:HA	1.64	0.62
1:4:283:SER:HB3	1:4:403:GLY:HA2	1.81	0.62
1:5:283:SER:H	1:5:286:HIS:CD2	2.15	0.62
1:a:215:ASN:HB3	1:b:281:TRP:CE3	2.35	0.62
1:e:63:ARG:HG3	1:e:197:LEU:HD23	1.82	0.62
1:g:63:ARG:HG3	1:g:197:LEU:HD23	1.82	0.62
1:g:131:THR:HG22	1:g:563:CYS:SG	2.40	0.62
1:l:131:THR:HG22	1:l:563:CYS:SG	2.40	0.62
1:m:63:ARG:HG3	1:m:197:LEU:HD23	1.82	0.62
1:n:281:TRP:CE3	1:o:215:ASN:HB3	2.35	0.62
1:p:111:PHE:HD1	1:p:209:GLN:HA	1.64	0.62
1:B:215:ASN:HB3	1:L:281:TRP:CE3	2.35	0.62
1:K:283:SER:H	1:K:286:HIS:CD2	2.15	0.62
1:M:111:PHE:HD1	1:M:209:GLN:HA	1.64	0.62
1:M:335:SER:N	1:M:435:THR:HG22	2.11	0.62
1:N:131:THR:HG22	1:N:563:CYS:SG	2.40	0.62
1:P:131:THR:HG22	1:P:563:CYS:SG	2.40	0.62
1:V:63:ARG:HG3	1:V:197:LEU:HD23	1.82	0.62
1:3:131:THR:HG22	1:3:563:CYS:SG	2.40	0.62
1:5:131:THR:HG22	1:5:563:CYS:SG	2.40	0.62
1:d:111:PHE:HD1	1:d:209:GLN:HA	1.64	0.62
1:d:335:SER:N	1:d:435:THR:HG22	2.11	0.62
1:f:63:ARG:HG3	1:f:197:LEU:HD23	1.82	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:f:131:THR:HG22	1:f:563:CYS:SG	2.40	0.62
1:h:63:ARG:HG3	1:h:197:LEU:HD23	1.82	0.62
1:j:283:SER:HB3	1:j:403:GLY:HA2	1.81	0.62
1:o:63:ARG:HG3	1:o:197:LEU:HD23	1.82	0.62
1:o:131:THR:HG22	1:o:563:CYS:SG	2.40	0.62
1:q:63:ARG:HG3	1:q:197:LEU:HD23	1.82	0.62
1:r:131:THR:HG22	1:r:563:CYS:SG	2.40	0.62
1:w:283:SER:H	1:w:286:HIS:CD2	2.15	0.62
1:y:63:ARG:HG3	1:y:197:LEU:HD23	1.82	0.62
1:C:283:SER:HB3	1:C:403:GLY:HA2	1.81	0.61
1:F:63:ARG:HG3	1:F:197:LEU:HD23	1.82	0.61
1:F:131:THR:HG22	1:F:563:CYS:SG	2.40	0.61
1:I:131:THR:HG22	1:I:563:CYS:SG	2.40	0.61
1:K:131:THR:HG22	1:K:563:CYS:SG	2.40	0.61
1:Y:283:SER:HB3	1:Y:403:GLY:HA2	1.81	0.61
1:Z:283:SER:HB3	1:Z:403:GLY:HA2	1.81	0.61
1:3:111:PHE:HD1	1:3:209:GLN:HA	1.64	0.61
1:6:281:TRP:CE3	1:b:215:ASN:HB3	2.35	0.61
1:f:111:PHE:HD1	1:f:209:GLN:HA	1.64	0.61
1:i:281:TRP:CE3	1:j:215:ASN:HB3	2.35	0.61
1:o:281:TRP:CE3	1:p:215:ASN:HB3	2.35	0.61
1:s:131:THR:HG22	1:s:563:CYS:SG	2.40	0.61
1:t:131:THR:HG22	1:t:563:CYS:SG	2.40	0.61
1:0:63:ARG:HG3	1:0:197:LEU:HD23	1.82	0.61
1:C:281:TRP:CE3	1:2:215:ASN:HB3	2.35	0.61
1:D:63:ARG:HG3	1:D:197:LEU:HD23	1.82	0.61
1:E:215:ASN:HB3	1:F:281:TRP:CE3	2.35	0.61
1:J:281:TRP:CE3	1:L:215:ASN:HB3	2.35	0.61
1:K:281:TRP:CE3	1:1:215:ASN:HB3	2.35	0.61
1:R:111:PHE:HD1	1:R:209:GLN:HA	1.64	0.61
1:T:281:TRP:CE3	1:4:215:ASN:HB3	2.35	0.61
1:W:281:TRP:CE3	1:Y:215:ASN:HB3	2.36	0.61
1:Z:215:ASN:HB3	1:w:281:TRP:CE3	2.36	0.61
1:3:281:TRP:CE3	1:i:215:ASN:HB3	2.35	0.61
1:a:131:THR:HG22	1:a:563:CYS:SG	2.40	0.61
1:c:131:THR:HG22	1:c:563:CYS:SG	2.40	0.61
1:c:215:ASN:HB3	1:e:281:TRP:CE3	2.35	0.61
1:t:63:ARG:HG3	1:t:197:LEU:HD23	1.82	0.61
1:u:281:TRP:CE3	1:v:215:ASN:HB3	2.35	0.61
1:w:215:ASN:HB3	1:x:281:TRP:CE3	2.36	0.61
1:7:63:ARG:HG3	1:7:197:LEU:HD23	1.82	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:215:ASN:HB3	1:P:281:TRP:CE3	2.35	0.61
1:D:281:TRP:CE3	1:N:215:ASN:HB3	2.35	0.61
1:D:335:SER:N	1:D:435:THR:HG22	2.11	0.61
1:E:111:PHE:HD1	1:E:209:GLN:HA	1.64	0.61
1:E:406:ASN:OD1	1:Q:342:HIS:CE1	2.53	0.61
1:G:283:SER:HB3	1:G:403:GLY:HA2	1.81	0.61
1:H:281:TRP:CE3	1:W:215:ASN:HB3	2.36	0.61
1:I:63:ARG:HG3	1:I:197:LEU:HD23	1.82	0.61
1:R:63:ARG:HG3	1:R:197:LEU:HD23	1.82	0.61
1:S:111:PHE:HD1	1:S:209:GLN:HA	1.64	0.61
1:T:131:THR:HG22	1:T:563:CYS:SG	2.40	0.61
1:T:215:ASN:HB3	1:f:281:TRP:CE3	2.35	0.61
1:U:63:ARG:HG3	1:U:197:LEU:HD23	1.81	0.61
1:V:131:THR:HG22	1:V:563:CYS:SG	2.40	0.61
1:X:215:ASN:HB3	1:5:281:TRP:CE3	2.35	0.61
1:2:294:ASP:OD1	1:2:304:GLN:HB3	2.01	0.61
1:c:294:ASP:OD1	1:c:304:GLN:HB3	2.01	0.61
1:n:131:THR:HG22	1:n:563:CYS:SG	2.40	0.61
1:n:215:ASN:HB3	1:p:281:TRP:CE3	2.35	0.61
1:q:281:TRP:CE3	1:r:215:ASN:HB3	2.35	0.61
1:r:294:ASP:OD1	1:r:304:GLN:HB3	2.01	0.61
1:s:283:SER:HB3	1:s:403:GLY:HA2	1.81	0.61
1:t:281:TRP:CE3	1:u:215:ASN:HB3	2.35	0.61
1:x:63:ARG:HG3	1:x:197:LEU:HD23	1.82	0.61
1:y:111:PHE:HD1	1:y:209:GLN:HA	1.64	0.61
1:z:294:ASP:OD1	1:z:304:GLN:HB3	2.01	0.61
1:B:131:THR:HG22	1:B:563:CYS:SG	2.40	0.61
1:F:342:HIS:CE1	1:Q:406:ASN:OD1	2.53	0.61
1:H:63:ARG:HG3	1:H:197:LEU:HD23	1.82	0.61
1:H:283:SER:HB3	1:H:403:GLY:HA2	1.81	0.61
1:I:294:ASP:OD1	1:I:304:GLN:HB3	2.01	0.61
1:N:294:ASP:OD1	1:N:304:GLN:HB3	2.01	0.61
1:S:294:ASP:OD1	1:S:304:GLN:HB3	2.01	0.61
1:V:294:ASP:OD1	1:V:304:GLN:HB3	2.01	0.61
1:Y:63:ARG:HG3	1:Y:197:LEU:HD23	1.82	0.61
1:1:281:TRP:CE3	1:0:215:ASN:HB3	2.35	0.61
1:2:131:THR:HG22	1:2:563:CYS:SG	2.40	0.61
1:i:131:THR:HG22	1:i:563:CYS:SG	2.40	0.61
1:n:283:SER:H	1:n:286:HIS:CD2	2.15	0.61
1:t:294:ASP:OD1	1:t:304:GLN:HB3	2.01	0.61
1:w:131:THR:HG22	1:w:563:CYS:SG	2.40	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:x:283:SER:HB3	1:x:403:GLY:HA2	1.81	0.61
1:y:281:TRP:CE3	1:z:215:ASN:HB3	2.35	0.61
1:0:131:THR:HG22	1:0:563:CYS:SG	2.40	0.61
1:A:294:ASP:OD1	1:A:304:GLN:HB3	2.01	0.61
1:C:215:ASN:HB3	1:M:281:TRP:CE3	2.35	0.61
1:G:294:ASP:OD1	1:G:304:GLN:HB3	2.01	0.61
1:P:283:SER:HB3	1:P:403:GLY:HA2	1.81	0.61
1:Q:131:THR:HG22	1:Q:563:CYS:SG	2.40	0.61
1:W:131:THR:HG22	1:W:563:CYS:SG	2.40	0.61
1:Y:131:THR:HG22	1:Y:563:CYS:SG	2.40	0.61
1:Z:131:THR:HG22	1:Z:563:CYS:SG	2.40	0.61
1:5:63:ARG:HG3	1:5:197:LEU:HD23	1.82	0.61
1:6:215:ASN:HB3	1:a:281:TRP:CE3	2.35	0.61
1:b:283:SER:H	1:b:286:HIS:CD2	2.15	0.61
1:d:294:ASP:OD1	1:d:304:GLN:HB3	2.01	0.61
1:e:283:SER:HB3	1:e:403:GLY:HA2	1.81	0.61
1:q:215:ASN:HB3	1:s:281:TRP:CE3	2.35	0.61
1:v:283:SER:HB3	1:v:403:GLY:HA2	1.81	0.61
1:v:294:ASP:OD1	1:v:304:GLN:HB3	2.01	0.61
1:w:63:ARG:HG3	1:w:197:LEU:HD23	1.82	0.61
1:z:281:TRP:CE3	1:7:215:ASN:HB3	2.35	0.61
1:0:294:ASP:OD1	1:0:304:GLN:HB3	2.01	0.61
1:B:281:TRP:CE3	1:J:215:ASN:HB3	2.35	0.61
1:G:63:ARG:HG3	1:G:197:LEU:HD23	1.82	0.61
1:K:63:ARG:HG3	1:K:197:LEU:HD23	1.82	0.61
1:L:294:ASP:OD1	1:L:304:GLN:HB3	2.01	0.61
1:M:215:ASN:HB3	1:2:281:TRP:CE3	2.35	0.61
1:Q:283:SER:H	1:Q:286:HIS:CD2	2.15	0.61
1:U:111:PHE:HD1	1:U:209:GLN:HA	1.64	0.61
1:V:215:ASN:HB3	1:X:281:TRP:CE3	2.35	0.61
1:W:63:ARG:HG3	1:W:197:LEU:HD23	1.82	0.61
1:Z:63:ARG:HG3	1:Z:197:LEU:HD23	1.82	0.61
1:5:294:ASP:OD1	1:5:304:GLN:HB3	2.01	0.61
1:d:281:TRP:CE3	1:e:215:ASN:HB3	2.35	0.61
1:g:281:TRP:CE3	1:h:215:ASN:HB3	2.36	0.61
1:i:283:SER:H	1:i:286:HIS:CD2	2.15	0.61
1:l:294:ASP:OD1	1:l:304:GLN:HB3	2.01	0.61
1:q:335:SER:N	1:q:435:THR:HG22	2.11	0.61
1:u:294:ASP:OD1	1:u:304:GLN:HB3	2.01	0.61
1:v:63:ARG:HG3	1:v:197:LEU:HD23	1.82	0.61
1:7:111:PHE:HD1	1:7:209:GLN:HA	1.64	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:63:ARG:HG3	1:A:197:LEU:HD23	1.82	0.61
1:K:294:ASP:OD1	1:K:304:GLN:HB3	2.01	0.61
1:L:131:THR:HG22	1:L:563:CYS:SG	2.40	0.61
1:M:294:ASP:OD1	1:M:304:GLN:HB3	2.01	0.61
1:V:281:TRP:CE3	1:5:215:ASN:HB3	2.35	0.61
1:W:316:ASP:HA	1:Y:376:LYS:HD2	1.83	0.61
1:X:63:ARG:HG3	1:X:197:LEU:HD23	1.82	0.61
1:4:111:PHE:HD1	1:4:209:GLN:HA	1.64	0.61
1:b:294:ASP:OD1	1:b:304:GLN:HB3	2.01	0.61
1:c:281:TRP:CE3	1:d:215:ASN:HB3	2.35	0.61
1:g:294:ASP:OD1	1:g:304:GLN:HB3	2.01	0.61
1:l:281:TRP:CE3	1:m:215:ASN:HB3	2.36	0.61
1:z:111:PHE:HD1	1:z:209:GLN:HA	1.64	0.61
1:A:215:ASN:HB3	1:I:281:TRP:CE3	2.36	0.61
1:A:283:SER:H	1:A:286:HIS:CD2	2.15	0.61
1:E:376:LYS:HD2	1:F:316:ASP:HA	1.83	0.61
1:G:376:LYS:HA	1:G:395:TRP:HA	1.83	0.61
1:J:131:THR:HG22	1:J:563:CYS:SG	2.40	0.61
1:L:283:SER:H	1:L:286:HIS:CD2	2.15	0.61
1:O:281:TRP:CE3	1:g:215:ASN:HB3	2.36	0.61
1:R:281:TRP:CE3	1:S:215:ASN:HB3	2.35	0.61
1:S:281:TRP:CE3	1:U:215:ASN:HB3	2.35	0.61
1:U:131:THR:HG22	1:U:563:CYS:SG	2.40	0.61
1:U:294:ASP:OD1	1:U:304:GLN:HB3	2.01	0.61
1:Z:376:LYS:HD2	1:w:316:ASP:HA	1.83	0.61
1:1:63:ARG:HG3	1:1:197:LEU:HD23	1.82	0.61
1:1:283:SER:H	1:1:286:HIS:CD2	2.15	0.61
1:6:131:THR:HG22	1:6:563:CYS:SG	2.40	0.61
1:h:294:ASP:OD1	1:h:304:GLN:HB3	2.01	0.61
1:m:294:ASP:OD1	1:m:304:GLN:HB3	2.01	0.61
1:t:215:ASN:HB3	1:v:281:TRP:CE3	2.35	0.61
1:u:63:ARG:HG3	1:u:197:LEU:HD23	1.82	0.61
1:v:376:LYS:HA	1:v:395:TRP:HA	1.83	0.61
1:w:283:SER:HB3	1:w:403:GLY:HA2	1.81	0.61
1:7:131:THR:HG22	1:7:563:CYS:SG	2.40	0.61
1:F:376:LYS:HA	1:F:395:TRP:HA	1.83	0.61
1:G:281:TRP:CE3	1:I:215:ASN:HB3	2.35	0.61
1:I:376:LYS:HA	1:I:395:TRP:HA	1.83	0.61
1:K:215:ASN:HB3	1:0:281:TRP:CE3	2.35	0.61
1:T:283:SER:H	1:T:286:HIS:CD2	2.15	0.61
1:X:283:SER:H	1:X:286:HIS:CD2	2.15	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:4:131:THR:HG22	1:4:563:CYS:SG	2.40	0.61
1:a:294:ASP:OD1	1:a:304:GLN:HB3	2.01	0.61
1:b:131:THR:HG22	1:b:563:CYS:SG	2.40	0.61
1:j:111:PHE:HD1	1:j:209:GLN:HA	1.64	0.61
1:k:281:TRP:CE3	1:l:215:ASN:HB3	2.36	0.61
1:t:283:SER:H	1:t:286:HIS:CD2	2.15	0.61
1:t:376:LYS:HA	1:t:395:TRP:HA	1.83	0.61
1:7:294:ASP:OD1	1:7:304:GLN:HB3	2.01	0.61
1:B:63:ARG:HG3	1:B:197:LEU:HD23	1.82	0.61
1:H:131:THR:HG22	1:H:563:CYS:SG	2.40	0.61
1:J:376:LYS:HA	1:J:395:TRP:HA	1.83	0.61
1:O:294:ASP:OD1	1:O:304:GLN:HB3	2.01	0.61
1:O:316:ASP:HA	1:g:376:LYS:HD2	1.83	0.61
1:R:376:LYS:HA	1:R:395:TRP:HA	1.83	0.61
1:W:283:SER:HB3	1:W:403:GLY:HA2	1.81	0.61
1:6:376:LYS:HA	1:6:395:TRP:HA	1.83	0.61
1:k:294:ASP:OD1	1:k:304:GLN:HB3	2.01	0.61
1:k:316:ASP:HA	1:l:376:LYS:HD2	1.83	0.61
1:n:294:ASP:OD1	1:n:304:GLN:HB3	2.01	0.61
1:B:294:ASP:OD1	1:B:304:GLN:HB3	2.01	0.60
1:F:215:ASN:HB3	1:Q:281:TRP:CE3	2.36	0.60
1:H:215:ASN:HB3	1:Y:281:TRP:CE3	2.36	0.60
1:Q:294:ASP:OD1	1:Q:304:GLN:HB3	2.01	0.60
1:R:131:THR:HG22	1:R:563:CYS:SG	2.40	0.60
1:Z:283:SER:H	1:Z:286:HIS:CD2	2.15	0.60
1:4:376:LYS:HA	1:4:395:TRP:HA	1.83	0.60
1:o:376:LYS:HA	1:o:395:TRP:HA	1.83	0.60
1:u:283:SER:H	1:u:286:HIS:CD2	2.15	0.60
1:y:131:THR:HG22	1:y:563:CYS:SG	2.40	0.60
1:z:131:THR:HG22	1:z:563:CYS:SG	2.40	0.60
1:H:111:PHE:HD1	1:H:209:GLN:HA	1.64	0.60
1:I:283:SER:H	1:I:286:HIS:CD2	2.15	0.60
1:P:294:ASP:OD1	1:P:304:GLN:HB3	2.01	0.60
1:S:131:THR:HG22	1:S:563:CYS:SG	2.40	0.60
1:3:376:LYS:HD2	1:j:316:ASP:HA	1.83	0.60
1:a:63:ARG:HG3	1:a:197:LEU:HD23	1.82	0.60
1:e:335:SER:N	1:e:435:THR:HG22	2.12	0.60
1:j:131:THR:HG22	1:j:563:CYS:SG	2.40	0.60
1:j:376:LYS:HA	1:j:395:TRP:HA	1.83	0.60
1:x:111:PHE:HD1	1:x:209:GLN:HA	1.64	0.60
1:C:335:SER:N	1:C:435:THR:HG22	2.12	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:131:THR:HG22	1:E:563:CYS:SG	2.40	0.60
1:L:376:LYS:HA	1:L:395:TRP:HA	1.83	0.60
1:O:131:THR:HG22	1:O:563:CYS:SG	2.40	0.60
1:Y:294:ASP:OD1	1:Y:304:GLN:HB3	2.01	0.60
1:Z:281:TRP:CE3	1:x:215:ASN:HB3	2.36	0.60
1:Z:316:ASP:HA	1:x:376:LYS:HD2	1.82	0.60
1:4:316:ASP:HA	1:f:376:LYS:HD2	1.83	0.60
1:p:131:THR:HG22	1:p:563:CYS:SG	2.40	0.60
1:s:294:ASP:OD1	1:s:304:GLN:HB3	2.01	0.60
1:w:294:ASP:OD1	1:w:304:GLN:HB3	2.01	0.60
1:x:131:THR:HG22	1:x:563:CYS:SG	2.40	0.60
1:y:376:LYS:HA	1:y:395:TRP:HA	1.83	0.60
1:F:294:ASP:OD1	1:F:304:GLN:HB3	2.01	0.60
1:T:63:ARG:HG3	1:T:197:LEU:HD23	1.81	0.60
1:V:111:PHE:HD1	1:V:209:GLN:HA	1.64	0.60
1:W:294:ASP:OD1	1:W:304:GLN:HB3	2.01	0.60
1:W:376:LYS:HA	1:W:395:TRP:HA	1.83	0.60
1:Y:283:SER:H	1:Y:286:HIS:CD2	2.15	0.60
1:Z:376:LYS:HA	1:Z:395:TRP:HA	1.83	0.60
1:b:335:SER:N	1:b:435:THR:HG22	2.12	0.60
1:b:376:LYS:HA	1:b:395:TRP:HA	1.83	0.60
1:j:294:ASP:OD1	1:j:304:GLN:HB3	2.01	0.60
1:k:131:THR:HG22	1:k:563:CYS:SG	2.40	0.60
1:n:376:LYS:HA	1:n:395:TRP:HA	1.83	0.60
1:H:376:LYS:HD2	1:Y:316:ASP:HA	1.82	0.60
1:Q:63:ARG:HG3	1:Q:197:LEU:HD23	1.82	0.60
1:Q:376:LYS:HA	1:Q:395:TRP:HA	1.83	0.60
1:T:376:LYS:HD2	1:f:316:ASP:HA	1.84	0.60
1:Y:376:LYS:HA	1:Y:395:TRP:HA	1.83	0.60
1:Z:294:ASP:OD1	1:Z:304:GLN:HB3	2.01	0.60
1:3:215:ASN:HB3	1:j:281:TRP:CE3	2.35	0.60
1:4:281:TRP:CE3	1:f:215:ASN:HB3	2.35	0.60
1:4:294:ASP:OD1	1:4:304:GLN:HB3	2.01	0.60
1:n:63:ARG:HG3	1:n:197:LEU:HD23	1.82	0.60
1:w:376:LYS:HA	1:w:395:TRP:HA	1.83	0.60
1:F:283:SER:H	1:F:286:HIS:CD2	2.15	0.60
1:L:335:SER:N	1:L:435:THR:HG22	2.12	0.60
1:R:376:LYS:HD2	1:U:316:ASP:HA	1.83	0.60
1:1:316:ASP:HA	1:0:376:LYS:HD2	1.84	0.60
1:3:316:ASP:HA	1:i:376:LYS:HD2	1.84	0.60
1:f:376:LYS:HA	1:f:395:TRP:HA	1.83	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:i:376:LYS:HA	1:i:395:TRP:HA	1.83	0.60
1:o:294:ASP:OD1	1:o:304:GLN:HB3	2.01	0.60
1:o:316:ASP:HA	1:p:376:LYS:HD2	1.84	0.60
1:x:376:LYS:HA	1:x:395:TRP:HA	1.83	0.60
1:y:294:ASP:OD1	1:y:304:GLN:HB3	2.01	0.60
1:A:281:TRP:CE3	1:G:215:ASN:HB3	2.36	0.60
1:D:294:ASP:OD1	1:D:304:GLN:HB3	2.01	0.60
1:H:294:ASP:OD1	1:H:304:GLN:HB3	2.01	0.60
1:H:376:LYS:HA	1:H:395:TRP:HA	1.83	0.60
1:R:316:ASP:HA	1:S:376:LYS:HD2	1.83	0.60
1:T:376:LYS:HA	1:T:395:TRP:HA	1.83	0.60
1:V:376:LYS:HD2	1:X:316:ASP:HA	1.84	0.60
1:3:376:LYS:HA	1:3:395:TRP:HA	1.83	0.60
1:h:376:LYS:HA	1:h:395:TRP:HA	1.83	0.60
1:l:376:LYS:HA	1:l:395:TRP:HA	1.83	0.60
1:m:376:LYS:HA	1:m:395:TRP:HA	1.83	0.60
1:o:283:SER:H	1:o:286:HIS:CD2	2.15	0.60
1:y:316:ASP:HA	1:z:376:LYS:HD2	1.83	0.60
1:7:376:LYS:HA	1:7:395:TRP:HA	1.83	0.60
1:0:111:PHE:HD1	1:0:209:GLN:HA	1.64	0.60
1:0:376:LYS:HA	1:0:395:TRP:HA	1.83	0.60
1:C:294:ASP:OD1	1:C:304:GLN:HB3	2.01	0.60
1:E:63:ARG:HG3	1:E:197:LEU:HD23	1.81	0.60
1:O:215:ASN:HB3	1:h:281:TRP:CE3	2.36	0.60
1:R:294:ASP:OD1	1:R:304:GLN:HB3	2.01	0.60
1:V:376:LYS:HA	1:V:395:TRP:HA	1.83	0.60
1:3:294:ASP:OD1	1:3:304:GLN:HB3	2.01	0.60
1:6:294:ASP:OD1	1:6:304:GLN:HB3	2.01	0.60
1:d:316:ASP:HA	1:e:376:LYS:HD2	1.84	0.60
1:f:294:ASP:OD1	1:f:304:GLN:HB3	2.01	0.60
1:g:376:LYS:HA	1:g:395:TRP:HA	1.83	0.60
1:i:63:ARG:HG3	1:i:197:LEU:HD23	1.82	0.60
1:m:283:SER:H	1:m:286:HIS:CD2	2.15	0.60
1:p:63:ARG:HG3	1:p:197:LEU:HD23	1.82	0.60
1:q:294:ASP:OD1	1:q:304:GLN:HB3	2.01	0.60
1:x:294:ASP:OD1	1:x:304:GLN:HB3	2.01	0.60
1:y:376:LYS:HD2	1:7:316:ASP:HA	1.84	0.60
1:Q:37:HIS:HE1	1:S:34:GLY:HA2	1.66	0.60
1:U:376:LYS:HA	1:U:395:TRP:HA	1.83	0.60
1:4:335:SER:N	1:4:435:THR:HG22	2.11	0.60
1:k:215:ASN:HB3	1:m:281:TRP:CE3	2.36	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:n:316:ASP:HA	1:o:376:LYS:HD2	1.83	0.60
1:A:217:TRP:CD1	1:A:239:ARG:HD2	2.37	0.60
1:D:376:LYS:HA	1:D:395:TRP:HA	1.83	0.60
1:E:294:ASP:OD1	1:E:304:GLN:HB3	2.01	0.60
1:J:294:ASP:OD1	1:J:304:GLN:HB3	2.01	0.60
1:M:376:LYS:HA	1:M:395:TRP:HA	1.83	0.60
1:V:217:TRP:CD1	1:V:239:ARG:HD2	2.37	0.60
1:W:217:TRP:CD1	1:W:239:ARG:HD2	2.37	0.60
1:e:294:ASP:OD1	1:e:304:GLN:HB3	2.01	0.60
1:l:316:ASP:HA	1:m:376:LYS:HD2	1.82	0.60
1:n:376:LYS:HD2	1:p:316:ASP:HA	1.83	0.60
1:r:376:LYS:HA	1:r:395:TRP:HA	1.83	0.60
1:t:316:ASP:HA	1:u:376:LYS:HD2	1.84	0.60
1:u:217:TRP:CD1	1:u:239:ARG:HD2	2.37	0.60
1:w:217:TRP:CD1	1:w:239:ARG:HD2	2.37	0.60
1:0:217:TRP:CD1	1:0:239:ARG:HD2	2.37	0.60
1:B:316:ASP:HA	1:J:376:LYS:HD2	1.84	0.59
1:C:376:LYS:HD2	1:M:316:ASP:HA	1.84	0.59
1:L:217:TRP:CD1	1:L:239:ARG:HD2	2.37	0.59
1:N:376:LYS:HA	1:N:395:TRP:HA	1.83	0.59
1:O:217:TRP:CD1	1:O:239:ARG:HD2	2.37	0.59
1:d:376:LYS:HA	1:d:395:TRP:HA	1.83	0.59
1:g:217:TRP:CD1	1:g:239:ARG:HD2	2.37	0.59
1:g:316:ASP:HA	1:h:376:LYS:HD2	1.82	0.59
1:i:316:ASP:HA	1:j:376:LYS:HD2	1.84	0.59
1:j:335:SER:N	1:j:435:THR:HG22	2.12	0.59
1:k:217:TRP:CD1	1:k:239:ARG:HD2	2.37	0.59
1:l:217:TRP:CD1	1:l:239:ARG:HD2	2.37	0.59
1:p:294:ASP:OD1	1:p:304:GLN:HB3	2.01	0.59
1:q:376:LYS:HA	1:q:395:TRP:HA	1.83	0.59
1:C:217:TRP:CD1	1:C:239:ARG:HD2	2.37	0.59
1:D:316:ASP:HA	1:N:376:LYS:HD2	1.84	0.59
1:F:217:TRP:CD1	1:F:239:ARG:HD2	2.37	0.59
1:K:376:LYS:HD2	1:0:316:ASP:HA	1.84	0.59
1:N:316:ASP:HA	1:P:376:LYS:HD2	1.84	0.59
1:P:376:LYS:HA	1:P:395:TRP:HA	1.83	0.59
1:T:316:ASP:HA	1:4:376:LYS:HD2	1.84	0.59
1:X:294:ASP:OD1	1:X:304:GLN:HB3	2.01	0.59
1:X:376:LYS:HA	1:X:395:TRP:HA	1.83	0.59
1:1:294:ASP:OD1	1:1:304:GLN:HB3	2.01	0.59
1:2:335:SER:N	1:2:435:THR:HG22	2.12	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:b:217:TRP:CD1	1:b:239:ARG:HD2	2.37	0.59
1:o:217:TRP:CD1	1:o:239:ARG:HD2	2.37	0.59
1:q:316:ASP:HA	1:r:376:LYS:HD2	1.84	0.59
1:r:316:ASP:HA	1:s:376:LYS:HD2	1.84	0.59
1:A:376:LYS:HD2	1:I:316:ASP:HA	1.84	0.59
1:B:376:LYS:HD2	1:L:316:ASP:HA	1.84	0.59
1:E:281:TRP:CE3	1:Q:215:ASN:HB3	2.37	0.59
1:F:335:SER:N	1:F:435:THR:HG22	2.12	0.59
1:V:316:ASP:HA	1:5:376:LYS:HD2	1.84	0.59
1:X:217:TRP:CD1	1:X:239:ARG:HD2	2.37	0.59
1:1:217:TRP:CD1	1:1:239:ARG:HD2	2.37	0.59
1:1:376:LYS:HA	1:1:395:TRP:HA	1.83	0.59
1:3:217:TRP:CD1	1:3:239:ARG:HD2	2.37	0.59
1:6:376:LYS:HD2	1:a:316:ASP:HA	1.84	0.59
1:a:376:LYS:HD2	1:b:316:ASP:HA	1.84	0.59
1:c:335:SER:N	1:c:435:THR:HG22	2.11	0.59
1:c:376:LYS:HA	1:c:395:TRP:HA	1.83	0.59
1:e:217:TRP:CD1	1:e:239:ARG:HD2	2.37	0.59
1:s:376:LYS:HA	1:s:395:TRP:HA	1.83	0.59
1:D:534:LEU:HD23	1:M:534:LEU:HD23	1.85	0.59
1:E:316:ASP:HA	1:Q:376:LYS:HD2	1.84	0.59
1:M:82:ARG:HG2	1:M:86:PHE:CD2	2.38	0.59
1:2:376:LYS:HA	1:2:395:TRP:HA	1.83	0.59
1:d:82:ARG:HG2	1:d:86:PHE:CD2	2.38	0.59
1:d:534:LEU:HD23	1:q:534:LEU:HD23	1.85	0.59
1:f:217:TRP:CD1	1:f:239:ARG:HD2	2.37	0.59
1:g:82:ARG:HG2	1:g:86:PHE:CD2	2.38	0.59
1:h:82:ARG:HG2	1:h:86:PHE:CD2	2.38	0.59
1:l:82:ARG:HG2	1:l:86:PHE:CD2	2.38	0.59
1:m:82:ARG:HG2	1:m:86:PHE:CD2	2.38	0.59
1:t:217:TRP:CD1	1:t:239:ARG:HD2	2.37	0.59
1:w:376:LYS:HD2	1:x:316:ASP:HA	1.84	0.59
1:z:376:LYS:HA	1:z:395:TRP:HA	1.83	0.59
1:A:316:ASP:HA	1:G:376:LYS:HD2	1.84	0.59
1:B:376:LYS:HA	1:B:395:TRP:HA	1.83	0.59
1:C:82:ARG:HG2	1:C:86:PHE:CD2	2.38	0.59
1:H:82:ARG:HG2	1:H:86:PHE:CD2	2.38	0.59
1:I:217:TRP:CD1	1:I:239:ARG:HD2	2.37	0.59
1:J:283:SER:H	1:J:286:HIS:CD2	2.15	0.59
1:J:316:ASP:HA	1:L:376:LYS:HD2	1.84	0.59
1:P:217:TRP:CD1	1:P:239:ARG:HD2	2.37	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:S:376:LYS:HA	1:S:395:TRP:HA	1.83	0.59
1:2:82:ARG:HG2	1:2:86:PHE:CD2	2.38	0.59
1:6:82:ARG:HG2	1:6:86:PHE:CD2	2.38	0.59
1:a:376:LYS:HA	1:a:395:TRP:HA	1.83	0.59
1:c:82:ARG:HG2	1:c:86:PHE:CD2	2.38	0.59
1:g:335:SER:N	1:g:435:THR:HG22	2.12	0.59
1:k:376:LYS:HA	1:k:395:TRP:HA	1.83	0.59
1:k:376:LYS:HD2	1:m:316:ASP:HA	1.84	0.59
1:x:82:ARG:HG2	1:x:86:PHE:CD2	2.38	0.59
1:B:534:LEU:HD23	1:I:534:LEU:HD23	1.85	0.59
1:H:316:ASP:HA	1:W:376:LYS:HD2	1.84	0.59
1:J:82:ARG:HG2	1:J:86:PHE:CD2	2.38	0.59
1:J:534:LEU:HD23	1:K:534:LEU:HD23	1.85	0.59
1:O:376:LYS:HA	1:O:395:TRP:HA	1.83	0.59
1:O:376:LYS:HD2	1:h:316:ASP:HA	1.84	0.59
1:Q:534:LEU:HD23	1:R:534:LEU:HD23	1.83	0.59
1:S:82:ARG:HG2	1:S:86:PHE:CD2	2.38	0.59
1:W:534:LEU:HD23	1:X:534:LEU:HD23	1.85	0.59
1:1:534:LEU:HD23	1:w:534:LEU:HD23	1.85	0.59
1:3:82:ARG:HG2	1:3:86:PHE:CD2	2.38	0.59
1:6:316:ASP:HA	1:b:376:LYS:HD2	1.84	0.59
1:a:534:LEU:HD23	1:t:534:LEU:HD23	1.85	0.59
1:c:376:LYS:HD2	1:e:316:ASP:HA	1.84	0.59
1:c:534:LEU:HD23	1:f:534:LEU:HD23	1.85	0.59
1:e:82:ARG:HG2	1:e:86:PHE:CD2	2.38	0.59
1:i:294:ASP:OD1	1:i:304:GLN:HB3	2.01	0.59
1:s:217:TRP:CD1	1:s:239:ARG:HD2	2.37	0.59
1:t:82:ARG:HG2	1:t:86:PHE:CD2	2.38	0.59
1:z:82:ARG:HG2	1:z:86:PHE:CD2	2.38	0.59
1:D:376:LYS:HD2	1:P:316:ASP:HA	1.84	0.59
1:E:376:LYS:HA	1:E:395:TRP:HA	1.83	0.59
1:F:82:ARG:HG2	1:F:86:PHE:CD2	2.38	0.59
1:I:82:ARG:HG2	1:I:86:PHE:CD2	2.38	0.59
1:K:316:ASP:HA	1:1:376:LYS:HD2	1.84	0.59
1:S:217:TRP:CD1	1:S:239:ARG:HD2	2.37	0.59
1:X:376:LYS:HD2	1:5:316:ASP:HA	1.84	0.59
1:2:534:LEU:HD23	1:3:534:LEU:HD23	1.85	0.59
1:5:376:LYS:HA	1:5:395:TRP:HA	1.83	0.59
1:5:534:LEU:HD23	1:6:534:LEU:HD23	1.85	0.59
1:a:217:TRP:CD2	1:a:239:ARG:HD2	2.38	0.59
1:o:82:ARG:HG2	1:o:86:PHE:CD2	2.38	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:o:335:SER:N	1:o:435:THR:HG22	2.12	0.59
1:p:376:LYS:HA	1:p:395:TRP:HA	1.83	0.59
1:B:217:TRP:CD2	1:B:239:ARG:HD2	2.38	0.59
1:C:316:ASP:HA	1:2:376:LYS:HD2	1.84	0.59
1:C:376:LYS:HA	1:C:395:TRP:HA	1.83	0.59
1:J:335:SER:N	1:J:435:THR:HG22	2.12	0.59
1:K:376:LYS:HA	1:K:395:TRP:HA	1.83	0.59
1:R:217:TRP:CD1	1:R:239:ARG:HD2	2.37	0.59
1:T:294:ASP:OD1	1:T:304:GLN:HB3	2.01	0.59
1:2:217:TRP:CD1	1:2:239:ARG:HD2	2.37	0.59
1:5:335:SER:N	1:5:435:THR:HG22	2.11	0.59
1:6:283:SER:H	1:6:286:HIS:CD2	2.15	0.59
1:c:217:TRP:CD1	1:c:239:ARG:HD2	2.37	0.59
1:f:82:ARG:HG2	1:f:86:PHE:CD2	2.38	0.59
1:h:217:TRP:CD1	1:h:239:ARG:HD2	2.37	0.59
1:j:217:TRP:CD1	1:j:239:ARG:HD2	2.37	0.59
1:l:335:SER:N	1:l:435:THR:HG22	2.12	0.59
1:u:316:ASP:HA	1:v:376:LYS:HD2	1.84	0.59
1:0:82:ARG:HG2	1:0:86:PHE:CD2	2.38	0.59
1:C:534:LEU:HD23	1:L:534:LEU:HD23	1.85	0.59
1:D:217:TRP:CD1	1:D:239:ARG:HD2	2.37	0.59
1:V:82:ARG:HG2	1:V:86:PHE:CD2	2.38	0.59
1:Y:217:TRP:CD1	1:Y:239:ARG:HD2	2.37	0.59
1:Z:217:TRP:CD1	1:Z:239:ARG:HD2	2.37	0.59
1:Z:217:TRP:CD2	1:Z:239:ARG:HD2	2.38	0.59
1:3:217:TRP:CD2	1:3:239:ARG:HD2	2.38	0.59
1:4:217:TRP:CD1	1:4:239:ARG:HD2	2.37	0.59
1:5:82:ARG:HG2	1:5:86:PHE:CD2	2.38	0.59
1:e:376:LYS:HA	1:e:395:TRP:HA	1.83	0.59
1:m:217:TRP:CD1	1:m:239:ARG:HD2	2.37	0.59
1:p:217:TRP:CD1	1:p:239:ARG:HD2	2.37	0.59
1:q:376:LYS:HD2	1:s:316:ASP:HA	1.84	0.59
1:y:82:ARG:HG2	1:y:86:PHE:CD2	2.38	0.59
1:y:217:TRP:CD1	1:y:239:ARG:HD2	2.37	0.59
1:z:217:TRP:CD1	1:z:239:ARG:HD2	2.37	0.59
1:7:335:SER:N	1:7:435:THR:HG22	2.12	0.59
1:E:217:TRP:CD1	1:E:239:ARG:HD2	2.37	0.59
1:G:82:ARG:HG2	1:G:86:PHE:CD2	2.38	0.59
1:G:217:TRP:CD1	1:G:239:ARG:HD2	2.37	0.59
1:G:534:LEU:HD23	1:H:534:LEU:HD23	1.85	0.59
1:K:82:ARG:HG2	1:K:86:PHE:CD2	2.38	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:R:82:ARG:HG2	1:R:86:PHE:CD2	2.38	0.59
1:T:335:SER:H	1:T:435:THR:CG2	2.13	0.59
1:Y:217:TRP:CD2	1:Y:239:ARG:HD2	2.38	0.59
1:6:335:SER:N	1:6:435:THR:HG22	2.11	0.59
1:b:534:LEU:HD23	1:e:534:LEU:HD23	1.85	0.59
1:f:217:TRP:CD2	1:f:239:ARG:HD2	2.38	0.59
1:j:82:ARG:HG2	1:j:86:PHE:CD2	2.38	0.59
1:j:534:LEU:HD23	1:m:534:LEU:HD23	1.85	0.59
1:v:82:ARG:HG2	1:v:86:PHE:CD2	2.38	0.59
1:v:217:TRP:CD1	1:v:239:ARG:HD2	2.37	0.59
1:x:217:TRP:CD2	1:x:239:ARG:HD2	2.38	0.59
1:E:217:TRP:CD2	1:E:239:ARG:HD2	2.38	0.58
1:H:217:TRP:CD1	1:H:239:ARG:HD2	2.37	0.58
1:K:335:SER:N	1:K:435:THR:HG22	2.11	0.58
1:N:82:ARG:HG2	1:N:86:PHE:CD2	2.38	0.58
1:N:534:LEU:HD23	1:O:534:LEU:HD23	1.85	0.58
1:P:217:TRP:CD2	1:P:239:ARG:HD2	2.38	0.58
1:4:82:ARG:HG2	1:4:86:PHE:CD2	2.38	0.58
1:4:534:LEU:HD23	1:h:534:LEU:HD23	1.85	0.58
1:g:217:TRP:CD2	1:g:239:ARG:HD2	2.38	0.58
1:i:335:SER:H	1:i:435:THR:CG2	2.13	0.58
1:k:534:LEU:HD23	1:r:534:LEU:HD23	1.85	0.58
1:p:217:TRP:CD2	1:p:239:ARG:HD2	2.38	0.58
1:q:217:TRP:CD1	1:q:239:ARG:HD2	2.37	0.58
1:s:217:TRP:CD2	1:s:239:ARG:HD2	2.38	0.58
1:u:335:SER:N	1:u:435:THR:HG22	2.12	0.58
1:v:534:LEU:HD23	1:x:534:LEU:HD23	1.85	0.58
1:A:217:TRP:CD2	1:A:239:ARG:HD2	2.38	0.58
1:A:335:SER:N	1:A:435:THR:HG22	2.12	0.58
1:B:82:ARG:HG2	1:B:86:PHE:CD2	2.38	0.58
1:H:217:TRP:CD2	1:H:239:ARG:HD2	2.38	0.58
1:L:217:TRP:CD2	1:L:239:ARG:HD2	2.38	0.58
1:M:217:TRP:CD2	1:M:239:ARG:HD2	2.38	0.58
1:P:82:ARG:HG2	1:P:86:PHE:CD2	2.38	0.58
1:T:217:TRP:CD1	1:T:239:ARG:HD2	2.37	0.58
1:U:82:ARG:HG2	1:U:86:PHE:CD2	2.38	0.58
1:b:217:TRP:CD2	1:b:239:ARG:HD2	2.38	0.58
1:d:217:TRP:CD2	1:d:239:ARG:HD2	2.38	0.58
1:i:82:ARG:HG2	1:i:86:PHE:CD2	2.38	0.58
1:l:217:TRP:CD2	1:l:239:ARG:HD2	2.38	0.58
1:q:108:THR:HG23	1:q:110:TRP:H	1.69	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:r:82:ARG:HG2	1:r:86:PHE:CD2	2.38	0.58
1:u:82:ARG:HG2	1:u:86:PHE:CD2	2.38	0.58
1:z:217:TRP:CD2	1:z:239:ARG:HD2	2.38	0.58
1:7:82:ARG:HG2	1:7:86:PHE:CD2	2.38	0.58
1:A:82:ARG:HG2	1:A:86:PHE:CD2	2.38	0.58
1:E:534:LEU:HD23	1:P:534:LEU:HD23	1.84	0.58
1:G:316:ASP:HA	1:I:376:LYS:HD2	1.83	0.58
1:S:217:TRP:CD2	1:S:239:ARG:HD2	2.38	0.58
1:S:316:ASP:HA	1:U:376:LYS:HD2	1.84	0.58
1:T:82:ARG:HG2	1:T:86:PHE:CD2	2.38	0.58
1:Y:82:ARG:HG2	1:Y:86:PHE:CD2	2.38	0.58
1:Z:82:ARG:HG2	1:Z:86:PHE:CD2	2.38	0.58
1:d:217:TRP:CD1	1:d:239:ARG:HD2	2.37	0.58
1:i:217:TRP:CD1	1:i:239:ARG:HD2	2.37	0.58
1:s:82:ARG:HG2	1:s:86:PHE:CD2	2.38	0.58
1:u:217:TRP:CD2	1:u:239:ARG:HD2	2.38	0.58
1:x:217:TRP:CD1	1:x:239:ARG:HD2	2.37	0.58
1:z:316:ASP:HA	1:7:376:LYS:HD2	1.84	0.58
1:7:217:TRP:CD1	1:7:239:ARG:HD2	2.37	0.58
1:D:82:ARG:HG2	1:D:86:PHE:CD2	2.38	0.58
1:D:108:THR:HG23	1:D:110:TRP:H	1.69	0.58
1:D:217:TRP:CD2	1:D:239:ARG:HD2	2.38	0.58
1:L:63:ARG:NH1	1:L:201:PRO:HA	2.19	0.58
1:O:63:ARG:NH1	1:O:201:PRO:HA	2.19	0.58
1:P:335:SER:N	1:P:435:THR:HG22	2.12	0.58
1:Q:217:TRP:CD1	1:Q:239:ARG:HD2	2.37	0.58
1:R:217:TRP:CD2	1:R:239:ARG:HD2	2.38	0.58
1:U:217:TRP:CD1	1:U:239:ARG:HD2	2.37	0.58
1:Y:534:LEU:HD23	1:Z:534:LEU:HD23	1.85	0.58
1:4:63:ARG:NH1	1:4:201:PRO:HA	2.19	0.58
1:6:335:SER:H	1:6:435:THR:CG2	2.13	0.58
1:a:82:ARG:HG2	1:a:86:PHE:CD2	2.38	0.58
1:b:63:ARG:NH1	1:b:201:PRO:HA	2.19	0.58
1:j:63:ARG:NH1	1:j:201:PRO:HA	2.19	0.58
1:k:63:ARG:NH1	1:k:201:PRO:HA	2.19	0.58
1:k:217:TRP:CD2	1:k:239:ARG:HD2	2.38	0.58
1:n:217:TRP:CD1	1:n:239:ARG:HD2	2.37	0.58
1:o:63:ARG:NH1	1:o:201:PRO:HA	2.19	0.58
1:t:376:LYS:HD2	1:v:316:ASP:HA	1.83	0.58
1:u:376:LYS:HA	1:u:395:TRP:HA	1.83	0.58
1:A:37:HIS:HE1	1:E:34:GLY:HA2	1.68	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:217:TRP:CD1	1:B:239:ARG:HD2	2.37	0.58
1:F:63:ARG:NH1	1:F:201:PRO:HA	2.19	0.58
1:J:335:SER:H	1:J:435:THR:CG2	2.13	0.58
1:M:217:TRP:CD1	1:M:239:ARG:HD2	2.37	0.58
1:O:217:TRP:CD2	1:O:239:ARG:HD2	2.38	0.58
1:V:217:TRP:CD2	1:V:239:ARG:HD2	2.38	0.58
1:Y:63:ARG:NH1	1:Y:201:PRO:HA	2.19	0.58
1:Y:108:THR:HG23	1:Y:110:TRP:H	1.69	0.58
1:Z:63:ARG:NH1	1:Z:201:PRO:HA	2.19	0.58
1:e:63:ARG:NH1	1:e:201:PRO:HA	2.19	0.58
1:h:108:THR:HG23	1:h:110:TRP:H	1.69	0.58
1:j:108:THR:HG23	1:j:110:TRP:H	1.69	0.58
1:m:108:THR:HG23	1:m:110:TRP:H	1.69	0.58
1:p:82:ARG:HG2	1:p:86:PHE:CD2	2.38	0.58
1:q:82:ARG:HG2	1:q:86:PHE:CD2	2.38	0.58
1:q:217:TRP:CD2	1:q:239:ARG:HD2	2.38	0.58
1:w:82:ARG:HG2	1:w:86:PHE:CD2	2.38	0.58
1:A:376:LYS:HA	1:A:395:TRP:HA	1.83	0.58
1:C:63:ARG:NH1	1:C:201:PRO:HA	2.19	0.58
1:E:82:ARG:HG2	1:E:86:PHE:CD2	2.38	0.58
1:J:217:TRP:CD1	1:J:239:ARG:HD2	2.37	0.58
1:N:217:TRP:CD1	1:N:239:ARG:HD2	2.37	0.58
1:S:63:ARG:NH1	1:S:201:PRO:HA	2.19	0.58
1:V:108:THR:HG23	1:V:110:TRP:H	1.68	0.58
1:W:82:ARG:HG2	1:W:86:PHE:CD2	2.38	0.58
1:Z:108:THR:HG23	1:Z:110:TRP:H	1.69	0.58
1:2:63:ARG:NH1	1:2:201:PRO:HA	2.19	0.58
1:6:217:TRP:CD1	1:6:239:ARG:HD2	2.37	0.58
1:a:217:TRP:CD1	1:a:239:ARG:HD2	2.37	0.58
1:c:63:ARG:NH1	1:c:201:PRO:HA	2.19	0.58
1:r:217:TRP:CD1	1:r:239:ARG:HD2	2.37	0.58
1:x:108:THR:HG23	1:x:110:TRP:H	1.69	0.58
1:y:217:TRP:CD2	1:y:239:ARG:HD2	2.38	0.58
1:z:63:ARG:NH1	1:z:201:PRO:HA	2.19	0.58
1:0:108:THR:HG23	1:0:110:TRP:H	1.68	0.58
1:0:217:TRP:CD2	1:0:239:ARG:HD2	2.38	0.58
1:H:108:THR:HG23	1:H:110:TRP:H	1.69	0.58
1:L:82:ARG:HG2	1:L:86:PHE:CD2	2.38	0.58
1:S:335:SER:N	1:S:435:THR:HG22	2.12	0.58
1:U:108:THR:HG23	1:U:110:TRP:H	1.69	0.58
1:X:82:ARG:HG2	1:X:86:PHE:CD2	2.38	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:4:108:THR:HG23	1:4:110:TRP:H	1.69	0.58
1:g:37:HIS:HE1	1:m:34:GLY:HA2	1.69	0.58
1:h:34:GLY:HA2	1:l:37:HIS:HE1	1.69	0.58
1:k:82:ARG:HG2	1:k:86:PHE:CD2	2.38	0.58
1:n:217:TRP:CD2	1:n:239:ARG:HD2	2.38	0.58
1:q:63:ARG:NH1	1:q:201:PRO:HA	2.19	0.58
1:r:217:TRP:CD2	1:r:239:ARG:HD2	2.38	0.58
1:s:335:SER:N	1:s:435:THR:HG22	2.11	0.58
1:7:108:THR:HG23	1:7:110:TRP:H	1.69	0.58
1:D:63:ARG:NH1	1:D:201:PRO:HA	2.19	0.58
1:G:217:TRP:CD2	1:G:239:ARG:HD2	2.38	0.58
1:L:108:THR:HG23	1:L:110:TRP:H	1.69	0.58
1:M:376:LYS:HD2	1:2:316:ASP:HA	1.84	0.58
1:N:217:TRP:CD2	1:N:239:ARG:HD2	2.38	0.58
1:O:82:ARG:HG2	1:O:86:PHE:CD2	2.38	0.58
1:S:534:LEU:HD23	1:T:534:LEU:HD23	1.85	0.58
1:1:82:ARG:HG2	1:1:86:PHE:CD2	2.38	0.58
1:b:82:ARG:HG2	1:b:86:PHE:CD2	2.38	0.58
1:b:108:THR:HG23	1:b:110:TRP:H	1.69	0.58
1:g:108:THR:HG23	1:g:110:TRP:H	1.69	0.58
1:g:534:LEU:HD23	1:l:534:LEU:HD23	1.85	0.58
1:h:217:TRP:CD2	1:h:239:ARG:HD2	2.38	0.58
1:v:217:TRP:CD2	1:v:239:ARG:HD2	2.38	0.58
1:z:108:THR:HG23	1:z:110:TRP:H	1.68	0.58
1:z:335:SER:N	1:z:435:THR:HG22	2.12	0.58
1:J:108:THR:HG23	1:J:110:TRP:H	1.69	0.58
1:N:108:THR:HG23	1:N:110:TRP:H	1.68	0.58
1:O:335:SER:N	1:O:435:THR:HG22	2.12	0.58
1:Q:82:ARG:HG2	1:Q:86:PHE:CD2	2.38	0.58
1:1:217:TRP:CD2	1:1:239:ARG:HD2	2.38	0.58
1:1:335:SER:N	1:1:435:THR:HG22	2.11	0.58
1:n:82:ARG:HG2	1:n:86:PHE:CD2	2.38	0.58
1:r:176:GLN:NE2	1:r:486:LYS:HE3	2.19	0.58
1:C:283:SER:H	1:C:286:HIS:CD2	2.15	0.58
1:K:108:THR:HG23	1:K:110:TRP:H	1.69	0.58
1:K:217:TRP:CD2	1:K:239:ARG:HD2	2.38	0.58
1:N:176:GLN:NE2	1:N:486:LYS:HE3	2.19	0.58
1:Q:217:TRP:CD2	1:Q:239:ARG:HD2	2.38	0.58
1:S:108:THR:HG23	1:S:110:TRP:H	1.69	0.58
1:X:217:TRP:CD2	1:X:239:ARG:HD2	2.38	0.58
1:X:335:SER:N	1:X:435:THR:HG22	2.11	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:3:63:ARG:NH1	1:3:201:PRO:HA	2.19	0.58
1:5:108:THR:HG23	1:5:110:TRP:H	1.69	0.58
1:5:217:TRP:CD1	1:5:239:ARG:HD2	2.37	0.58
1:6:108:THR:HG23	1:6:110:TRP:H	1.69	0.58
1:6:217:TRP:CD2	1:6:239:ARG:HD2	2.38	0.58
1:c:316:ASP:HA	1:d:376:LYS:HD2	1.84	0.58
1:f:63:ARG:NH1	1:f:201:PRO:HA	2.19	0.58
1:l:108:THR:HG23	1:l:110:TRP:H	1.69	0.58
1:m:217:TRP:CD2	1:m:239:ARG:HD2	2.38	0.58
1:o:217:TRP:CD2	1:o:239:ARG:HD2	2.38	0.58
1:s:108:THR:HG23	1:s:110:TRP:H	1.68	0.58
1:t:217:TRP:CD2	1:t:239:ARG:HD2	2.38	0.58
1:w:217:TRP:CD2	1:w:239:ARG:HD2	2.38	0.58
1:H:335:SER:H	1:H:435:THR:CG2	2.13	0.57
1:H:546:PHE:HA	1:H:555:GLU:O	2.04	0.57
1:I:63:ARG:NH1	1:I:201:PRO:HA	2.19	0.57
1:I:217:TRP:CD2	1:I:239:ARG:HD2	2.38	0.57
1:I:239:ARG:NH2	1:I:239:ARG:HB3	2.19	0.57
1:J:63:ARG:NH1	1:J:201:PRO:HA	2.19	0.57
1:J:217:TRP:CD2	1:J:239:ARG:HD2	2.38	0.57
1:O:108:THR:HG23	1:O:110:TRP:H	1.69	0.57
1:P:108:THR:HG23	1:P:110:TRP:H	1.69	0.57
1:W:63:ARG:NH1	1:W:201:PRO:HA	2.19	0.57
1:W:176:GLN:NE2	1:W:486:LYS:HE3	2.19	0.57
1:W:217:TRP:CD2	1:W:239:ARG:HD2	2.38	0.57
1:1:546:PHE:HA	1:1:555:GLU:O	2.04	0.57
1:2:217:TRP:CD2	1:2:239:ARG:HD2	2.38	0.57
1:3:108:THR:HG23	1:3:110:TRP:H	1.69	0.57
1:5:217:TRP:CD2	1:5:239:ARG:HD2	2.38	0.57
1:6:63:ARG:NH1	1:6:201:PRO:HA	2.19	0.57
1:e:217:TRP:CD2	1:e:239:ARG:HD2	2.38	0.57
1:f:108:THR:HG23	1:f:110:TRP:H	1.69	0.57
1:i:63:ARG:NH1	1:i:201:PRO:HA	2.19	0.57
1:i:217:TRP:CD2	1:i:239:ARG:HD2	2.38	0.57
1:j:217:TRP:CD2	1:j:239:ARG:HD2	2.38	0.57
1:k:335:SER:N	1:k:435:THR:HG22	2.11	0.57
1:n:534:LEU:HD23	1:y:534:LEU:HD23	1.85	0.57
1:p:534:LEU:HD23	1:s:534:LEU:HD23	1.85	0.57
1:r:108:THR:HG23	1:r:110:TRP:H	1.69	0.57
1:r:239:ARG:NH2	1:r:239:ARG:HB3	2.19	0.57
1:t:239:ARG:NH2	1:t:239:ARG:HB3	2.19	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:w:63:ARG:NH1	1:w:201:PRO:HA	2.19	0.57
1:x:335:SER:H	1:x:435:THR:CG2	2.13	0.57
1:B:63:ARG:NH1	1:B:201:PRO:HA	2.19	0.57
1:C:217:TRP:CD2	1:C:239:ARG:HD2	2.38	0.57
1:E:239:ARG:NH2	1:E:239:ARG:HB3	2.20	0.57
1:F:108:THR:HG23	1:F:110:TRP:H	1.69	0.57
1:K:217:TRP:CD1	1:K:239:ARG:HD2	2.37	0.57
1:N:239:ARG:NH2	1:N:239:ARG:HB3	2.20	0.57
1:P:239:ARG:NH2	1:P:239:ARG:HB3	2.19	0.57
1:Q:63:ARG:NH1	1:Q:201:PRO:HA	2.19	0.57
1:Q:108:THR:HG23	1:Q:110:TRP:H	1.68	0.57
1:R:63:ARG:NH1	1:R:201:PRO:HA	2.19	0.57
1:R:108:THR:HG23	1:R:110:TRP:H	1.69	0.57
1:T:63:ARG:NH1	1:T:201:PRO:HA	2.19	0.57
1:T:217:TRP:CD2	1:T:239:ARG:HD2	2.38	0.57
1:V:63:ARG:NH1	1:V:201:PRO:HA	2.19	0.57
1:e:283:SER:H	1:e:286:HIS:CD2	2.15	0.57
1:g:239:ARG:HB3	1:g:239:ARG:NH2	2.20	0.57
1:g:335:SER:H	1:g:435:THR:CG2	2.13	0.57
1:h:63:ARG:NH1	1:h:201:PRO:HA	2.19	0.57
1:i:534:LEU:HD23	1:z:534:LEU:HD23	1.85	0.57
1:l:239:ARG:NH2	1:l:239:ARG:HB3	2.20	0.57
1:n:63:ARG:NH1	1:n:201:PRO:HA	2.19	0.57
1:o:108:THR:HG23	1:o:110:TRP:H	1.69	0.57
1:p:239:ARG:NH2	1:p:239:ARG:HB3	2.20	0.57
1:r:63:ARG:NH1	1:r:201:PRO:HA	2.19	0.57
1:s:239:ARG:NH2	1:s:239:ARG:HB3	2.20	0.57
1:t:63:ARG:NH1	1:t:201:PRO:HA	2.19	0.57
1:v:108:THR:HG23	1:v:110:TRP:H	1.69	0.57
1:w:176:GLN:NE2	1:w:486:LYS:HE3	2.19	0.57
1:x:546:PHE:HA	1:x:555:GLU:O	2.04	0.57
1:0:63:ARG:NH1	1:0:201:PRO:HA	2.19	0.57
1:F:217:TRP:CD2	1:F:239:ARG:HD2	2.38	0.57
1:G:108:THR:HG23	1:G:110:TRP:H	1.69	0.57
1:O:546:PHE:HA	1:O:555:GLU:O	2.05	0.57
1:R:546:PHE:HA	1:R:555:GLU:O	2.04	0.57
1:U:546:PHE:HA	1:U:555:GLU:O	2.05	0.57
1:V:546:PHE:HA	1:V:555:GLU:O	2.05	0.57
1:W:239:ARG:HB3	1:W:239:ARG:NH2	2.20	0.57
1:W:335:SER:N	1:W:435:THR:HG22	2.11	0.57
1:X:546:PHE:HA	1:X:555:GLU:O	2.05	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Y:37:HIS:HE1	1:x:34:GLY:HA2	1.69	0.57
1:4:217:TRP:CD2	1:4:239:ARG:HD2	2.38	0.57
1:4:311:GLY:HA3	1:f:193:TYR:HA	1.87	0.57
1:a:63:ARG:NH1	1:a:201:PRO:HA	2.19	0.57
1:c:217:TRP:CD2	1:c:239:ARG:HD2	2.38	0.57
1:h:546:PHE:HA	1:h:555:GLU:O	2.04	0.57
1:j:546:PHE:HA	1:j:555:GLU:O	2.04	0.57
1:k:108:THR:HG23	1:k:110:TRP:H	1.69	0.57
1:k:546:PHE:HA	1:k:555:GLU:O	2.05	0.57
1:m:63:ARG:NH1	1:m:201:PRO:HA	2.19	0.57
1:m:546:PHE:HA	1:m:555:GLU:O	2.04	0.57
1:v:63:ARG:NH1	1:v:201:PRO:HA	2.19	0.57
1:v:239:ARG:NH2	1:v:239:ARG:HB3	2.19	0.57
1:w:239:ARG:HB3	1:w:239:ARG:NH2	2.20	0.57
1:y:63:ARG:NH1	1:y:201:PRO:HA	2.19	0.57
1:y:546:PHE:HA	1:y:555:GLU:O	2.04	0.57
1:0:546:PHE:HA	1:0:555:GLU:O	2.04	0.57
1:A:176:GLN:NE2	1:A:486:LYS:HE3	2.19	0.57
1:B:239:ARG:NH2	1:B:239:ARG:HB3	2.19	0.57
1:G:63:ARG:NH1	1:G:201:PRO:HA	2.19	0.57
1:H:34:GLY:HA2	1:Z:37:HIS:HE1	1.69	0.57
1:N:63:ARG:NH1	1:N:201:PRO:HA	2.19	0.57
1:Q:239:ARG:NH2	1:Q:239:ARG:HB3	2.19	0.57
1:U:217:TRP:CD2	1:U:239:ARG:HD2	2.38	0.57
1:U:534:LEU:HD23	1:V:534:LEU:HD23	1.85	0.57
1:X:108:THR:HG23	1:X:110:TRP:H	1.69	0.57
1:3:193:TYR:HA	1:j:311:GLY:HA3	1.87	0.57
1:3:239:ARG:NH2	1:3:239:ARG:HB3	2.19	0.57
1:a:239:ARG:NH2	1:a:239:ARG:HB3	2.20	0.57
1:f:239:ARG:NH2	1:f:239:ARG:HB3	2.19	0.57
1:i:108:THR:HG23	1:i:110:TRP:H	1.69	0.57
1:i:239:ARG:NH2	1:i:239:ARG:HB3	2.20	0.57
1:m:239:ARG:NH2	1:m:239:ARG:HB3	2.20	0.57
1:n:108:THR:HG23	1:n:110:TRP:H	1.69	0.57
1:p:108:THR:HG23	1:p:110:TRP:H	1.69	0.57
1:t:176:GLN:NE2	1:t:486:LYS:HE3	2.19	0.57
1:u:546:PHE:HA	1:u:555:GLU:O	2.04	0.57
1:y:108:THR:HG23	1:y:110:TRP:H	1.69	0.57
1:7:63:ARG:NH1	1:7:201:PRO:HA	2.19	0.57
1:7:534:LEU:HD23	1:0:534:LEU:HD23	1.85	0.57
1:7:546:PHE:HA	1:7:555:GLU:O	2.05	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:534:LEU:HD23	1:F:534:LEU:HD23	1.85	0.57
1:E:108:THR:HG23	1:E:110:TRP:H	1.69	0.57
1:F:137:VAL:HG21	1:F:519:LEU:HD23	1.87	0.57
1:G:137:VAL:HG21	1:G:519:LEU:HD23	1.87	0.57
1:G:176:GLN:NE2	1:G:486:LYS:HE3	2.19	0.57
1:G:239:ARG:NH2	1:G:239:ARG:HB3	2.20	0.57
1:H:63:ARG:NH1	1:H:201:PRO:HA	2.19	0.57
1:I:176:GLN:NE2	1:I:486:LYS:HE3	2.19	0.57
1:J:546:PHE:HA	1:J:555:GLU:O	2.04	0.57
1:O:311:GLY:HA3	1:g:193:TYR:HA	1.87	0.57
1:S:546:PHE:HA	1:S:555:GLU:O	2.04	0.57
1:T:193:TYR:HA	1:f:311:GLY:HA3	1.87	0.57
1:T:239:ARG:HB3	1:T:239:ARG:NH2	2.20	0.57
1:1:108:THR:HG23	1:1:110:TRP:H	1.69	0.57
1:4:546:PHE:HA	1:4:555:GLU:O	2.05	0.57
1:a:335:SER:N	1:a:435:THR:HG22	2.11	0.57
1:d:37:HIS:HE1	1:r:34:GLY:HA2	1.70	0.57
1:h:239:ARG:NH2	1:h:239:ARG:HB3	2.20	0.57
1:k:311:GLY:HA3	1:l:193:TYR:HA	1.87	0.57
1:l:335:SER:H	1:l:435:THR:CG2	2.13	0.57
1:n:239:ARG:NH2	1:n:239:ARG:HB3	2.20	0.57
1:o:534:LEU:HD23	1:u:534:LEU:HD23	1.85	0.57
1:q:176:GLN:NE2	1:q:486:LYS:HE3	2.19	0.57
1:u:176:GLN:NE2	1:u:486:LYS:HE3	2.19	0.57
1:z:546:PHE:HA	1:z:555:GLU:O	2.05	0.57
1:7:217:TRP:CD2	1:7:239:ARG:HD2	2.38	0.57
1:A:546:PHE:HA	1:A:555:GLU:O	2.05	0.57
1:D:546:PHE:HA	1:D:555:GLU:O	2.04	0.57
1:E:546:PHE:HA	1:E:555:GLU:O	2.05	0.57
1:K:546:PHE:HA	1:K:555:GLU:O	2.05	0.57
1:M:37:HIS:HE1	1:N:34:GLY:HA2	1.70	0.57
1:U:63:ARG:NH1	1:U:201:PRO:HA	2.19	0.57
1:U:137:VAL:HG21	1:U:519:LEU:HD23	1.87	0.57
1:X:34:GLY:HA2	1:6:37:HIS:HE1	1.70	0.57
1:1:137:VAL:HG21	1:1:519:LEU:HD23	1.87	0.57
1:3:311:GLY:HA3	1:i:193:TYR:HA	1.87	0.57
1:g:137:VAL:HG21	1:g:519:LEU:HD23	1.87	0.57
1:l:137:VAL:HG21	1:l:519:LEU:HD23	1.87	0.57
1:o:137:VAL:HG21	1:o:519:LEU:HD23	1.87	0.57
1:o:176:GLN:NE2	1:o:486:LYS:HE3	2.19	0.57
1:s:546:PHE:HA	1:s:555:GLU:O	2.05	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:v:137:VAL:HG21	1:v:519:LEU:HD23	1.87	0.57
1:v:176:GLN:NE2	1:v:486:LYS:HE3	2.19	0.57
1:x:63:ARG:NH1	1:x:201:PRO:HA	2.19	0.57
1:7:137:VAL:HG21	1:7:519:LEU:HD23	1.87	0.57
1:D:176:GLN:NE2	1:D:486:LYS:HE3	2.19	0.57
1:F:176:GLN:NE2	1:F:486:LYS:HE3	2.19	0.57
1:J:37:HIS:HE1	1:1:34:GLY:HA2	1.70	0.57
1:J:311:GLY:HA3	1:L:193:TYR:HA	1.87	0.57
1:M:63:ARG:NH1	1:M:201:PRO:HA	2.19	0.57
1:O:239:ARG:NH2	1:O:239:ARG:HB3	2.20	0.57
1:P:546:PHE:HA	1:P:555:GLU:O	2.05	0.57
1:R:193:TYR:HA	1:U:311:GLY:HA3	1.87	0.57
1:T:108:THR:HG23	1:T:110:TRP:H	1.69	0.57
1:X:137:VAL:HG21	1:X:519:LEU:HD23	1.87	0.57
1:2:239:ARG:NH2	1:2:239:ARG:HB3	2.20	0.57
1:5:546:PHE:HA	1:5:555:GLU:O	2.05	0.57
1:6:176:GLN:NE2	1:6:486:LYS:HE3	2.19	0.57
1:6:311:GLY:HA3	1:b:193:TYR:HA	1.87	0.57
1:6:546:PHE:HA	1:6:555:GLU:O	2.05	0.57
1:b:37:HIS:HE1	1:c:34:GLY:HA2	1.70	0.57
1:b:176:GLN:NE2	1:b:486:LYS:HE3	2.19	0.57
1:b:546:PHE:HA	1:b:555:GLU:O	2.04	0.57
1:c:239:ARG:NH2	1:c:239:ARG:HB3	2.20	0.57
1:d:335:SER:H	1:d:435:THR:CG2	2.13	0.57
1:q:546:PHE:HA	1:q:555:GLU:O	2.05	0.57
1:s:63:ARG:NH1	1:s:201:PRO:HA	2.19	0.57
1:t:546:PHE:HA	1:t:555:GLU:O	2.04	0.57
1:w:137:VAL:HG21	1:w:519:LEU:HD23	1.87	0.57
1:x:137:VAL:HG21	1:x:519:LEU:HD23	1.87	0.57
1:A:108:THR:HG23	1:A:110:TRP:H	1.69	0.57
1:C:546:PHE:HA	1:C:555:GLU:O	2.04	0.57
1:D:193:TYR:HA	1:P:311:GLY:HA3	1.87	0.57
1:H:137:VAL:HG21	1:H:519:LEU:HD23	1.87	0.57
1:I:546:PHE:HA	1:I:555:GLU:O	2.04	0.57
1:J:176:GLN:NE2	1:J:486:LYS:HE3	2.19	0.57
1:L:37:HIS:HE1	1:2:34:GLY:HA2	1.70	0.57
1:L:176:GLN:NE2	1:L:486:LYS:HE3	2.19	0.57
1:L:239:ARG:HB3	1:L:239:ARG:NH2	2.20	0.57
1:L:546:PHE:HA	1:L:555:GLU:O	2.04	0.57
1:M:239:ARG:NH2	1:M:239:ARG:HB3	2.19	0.57
1:M:335:SER:H	1:M:435:THR:CG2	2.13	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:S:239:ARG:NH2	1:S:239:ARG:HB3	2.20	0.57
1:W:137:VAL:HG21	1:W:519:LEU:HD23	1.87	0.57
1:X:63:ARG:NH1	1:X:201:PRO:HA	2.19	0.57
1:1:63:ARG:NH1	1:1:201:PRO:HA	2.19	0.57
1:2:217:TRP:NE1	1:2:239:ARG:HD2	2.20	0.57
1:4:239:ARG:HB3	1:4:239:ARG:NH2	2.19	0.57
1:b:239:ARG:NH2	1:b:239:ARG:HB3	2.20	0.57
1:c:217:TRP:NE1	1:c:239:ARG:HD2	2.20	0.57
1:d:63:ARG:NH1	1:d:201:PRO:HA	2.19	0.57
1:j:239:ARG:NH2	1:j:239:ARG:HB3	2.20	0.57
1:k:37:HIS:HE1	1:s:34:GLY:HA2	1.70	0.57
1:k:239:ARG:NH2	1:k:239:ARG:HB3	2.20	0.57
1:l:176:GLN:NE2	1:l:486:LYS:HE3	2.19	0.57
1:p:546:PHE:HA	1:p:555:GLU:O	2.05	0.57
1:q:239:ARG:NH2	1:q:239:ARG:HB3	2.19	0.57
1:u:239:ARG:NH2	1:u:239:ARG:HB3	2.20	0.57
1:u:311:GLY:HA3	1:v:193:TYR:HA	1.87	0.57
1:w:335:SER:N	1:w:435:THR:HG22	2.11	0.57
1:y:193:TYR:HA	1:7:311:GLY:HA3	1.87	0.57
1:A:63:ARG:NH1	1:A:201:PRO:HA	2.19	0.57
1:A:239:ARG:NH2	1:A:239:ARG:HB3	2.20	0.57
1:B:176:GLN:NE2	1:B:486:LYS:HE3	2.19	0.57
1:B:335:SER:N	1:B:435:THR:HG22	2.12	0.57
1:C:176:GLN:NE2	1:C:486:LYS:HE3	2.19	0.57
1:D:239:ARG:HB3	1:D:239:ARG:NH2	2.20	0.57
1:H:193:TYR:HA	1:Y:311:GLY:HA3	1.87	0.57
1:H:217:TRP:NE1	1:H:239:ARG:HD2	2.20	0.57
1:K:63:ARG:NH1	1:K:201:PRO:HA	2.19	0.57
1:P:63:ARG:NH1	1:P:201:PRO:HA	2.19	0.57
1:Q:176:GLN:NE2	1:Q:486:LYS:HE3	2.19	0.57
1:S:176:GLN:NE2	1:S:486:LYS:HE3	2.19	0.57
1:T:176:GLN:NE2	1:T:486:LYS:HE3	2.19	0.57
1:V:137:VAL:HG21	1:V:519:LEU:HD23	1.87	0.57
1:X:239:ARG:NH2	1:X:239:ARG:HB3	2.19	0.57
1:Z:176:GLN:NE2	1:Z:486:LYS:HE3	2.19	0.57
1:Z:311:GLY:HA3	1:x:193:TYR:HA	1.87	0.57
1:1:239:ARG:HB3	1:1:239:ARG:NH2	2.20	0.57
1:3:546:PHE:HA	1:3:555:GLU:O	2.04	0.57
1:a:176:GLN:NE2	1:a:486:LYS:HE3	2.19	0.57
1:e:176:GLN:NE2	1:e:486:LYS:HE3	2.19	0.57
1:e:546:PHE:HA	1:e:555:GLU:O	2.04	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:f:546:PHE:HA	1:f:555:GLU:O	2.04	0.57
1:g:63:ARG:NH1	1:g:201:PRO:HA	2.19	0.57
1:g:176:GLN:NE2	1:g:486:LYS:HE3	2.19	0.57
1:i:176:GLN:NE2	1:i:486:LYS:HE3	2.19	0.57
1:l:63:ARG:NH1	1:l:201:PRO:HA	2.19	0.57
1:n:176:GLN:NE2	1:n:486:LYS:HE3	2.19	0.57
1:t:108:THR:HG23	1:t:110:TRP:H	1.69	0.57
1:y:311:GLY:HA3	1:z:193:TYR:HA	1.87	0.57
1:z:176:GLN:NE2	1:z:486:LYS:HE3	2.19	0.57
1:0:137:VAL:HG21	1:0:519:LEU:HD23	1.87	0.57
1:B:108:THR:HG23	1:B:110:TRP:H	1.69	0.57
1:C:108:THR:HG23	1:C:110:TRP:H	1.69	0.57
1:D:217:TRP:NE1	1:D:239:ARG:HD2	2.20	0.57
1:K:239:ARG:NH2	1:K:239:ARG:HB3	2.20	0.57
1:O:37:HIS:HE1	1:P:34:GLY:HA2	1.70	0.57
1:Q:335:SER:H	1:Q:435:THR:CG2	2.13	0.57
1:R:311:GLY:HA3	1:S:193:TYR:HA	1.87	0.57
1:V:176:GLN:NE2	1:V:486:LYS:HE3	2.19	0.57
1:W:311:GLY:HA3	1:Y:193:TYR:HA	1.87	0.57
1:Y:176:GLN:NE2	1:Y:486:LYS:HE3	2.19	0.57
1:Y:239:ARG:NH2	1:Y:239:ARG:HB3	2.20	0.57
1:a:108:THR:HG23	1:a:110:TRP:H	1.69	0.57
1:a:546:PHE:HA	1:a:555:GLU:O	2.05	0.57
1:d:108:THR:HG23	1:d:110:TRP:H	1.69	0.57
1:d:239:ARG:NH2	1:d:239:ARG:HB3	2.20	0.57
1:i:546:PHE:HA	1:i:555:GLU:O	2.04	0.57
1:j:37:HIS:HE1	1:k:34:GLY:HA2	1.70	0.57
1:o:239:ARG:HB3	1:o:239:ARG:NH2	2.20	0.57
1:p:137:VAL:HG21	1:p:519:LEU:HD23	1.87	0.57
1:q:193:TYR:HA	1:s:311:GLY:HA3	1.87	0.57
1:q:217:TRP:NE1	1:q:239:ARG:HD2	2.20	0.57
1:r:311:GLY:HA3	1:s:193:TYR:HA	1.87	0.57
1:r:335:SER:N	1:r:435:THR:HG22	2.11	0.57
1:u:63:ARG:NH1	1:u:201:PRO:HA	2.19	0.57
1:u:108:THR:HG23	1:u:110:TRP:H	1.69	0.57
1:w:217:TRP:NE1	1:w:239:ARG:HD2	2.20	0.57
1:x:217:TRP:NE1	1:x:239:ARG:HD2	2.20	0.57
1:z:137:VAL:HG21	1:z:519:LEU:HD23	1.87	0.57
1:z:239:ARG:HB3	1:z:239:ARG:NH2	2.20	0.57
1:7:239:ARG:NH2	1:7:239:ARG:HB3	2.20	0.57
1:D:311:GLY:HA3	1:N:193:TYR:HA	1.87	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:137:VAL:HG21	1:E:519:LEU:HD23	1.87	0.56
1:E:193:TYR:HA	1:F:311:GLY:HA3	1.86	0.56
1:F:239:ARG:NH2	1:F:239:ARG:HB3	2.20	0.56
1:L:217:TRP:NE1	1:L:239:ARG:HD2	2.20	0.56
1:N:311:GLY:HA3	1:P:193:TYR:HA	1.87	0.56
1:N:335:SER:N	1:N:435:THR:HG22	2.12	0.56
1:R:335:SER:H	1:R:435:THR:CG2	2.13	0.56
1:T:217:TRP:NE1	1:T:239:ARG:HD2	2.20	0.56
1:T:546:PHE:HA	1:T:555:GLU:O	2.04	0.56
1:U:239:ARG:NH2	1:U:239:ARG:HB3	2.20	0.56
1:V:239:ARG:NH2	1:V:239:ARG:HB3	2.20	0.56
1:W:217:TRP:NE1	1:W:239:ARG:HD2	2.20	0.56
1:Z:239:ARG:NH2	1:Z:239:ARG:HB3	2.20	0.56
1:2:108:THR:HG23	1:2:110:TRP:H	1.69	0.56
1:5:63:ARG:NH1	1:5:201:PRO:HA	2.19	0.56
1:5:239:ARG:NH2	1:5:239:ARG:HB3	2.19	0.56
1:e:108:THR:HG23	1:e:110:TRP:H	1.69	0.56
1:n:546:PHE:HA	1:n:555:GLU:O	2.05	0.56
1:o:152:LYS:HA	1:o:169:ASN:HA	1.87	0.56
1:p:34:GLY:HA2	1:u:37:HIS:HE1	1.70	0.56
1:u:137:VAL:HG21	1:u:519:LEU:HD23	1.87	0.56
1:0:335:SER:N	1:0:435:THR:HG22	2.11	0.56
1:A:137:VAL:HG21	1:A:519:LEU:HD23	1.87	0.56
1:B:546:PHE:HA	1:B:555:GLU:O	2.05	0.56
1:F:152:LYS:HA	1:F:169:ASN:HA	1.87	0.56
1:H:311:GLY:HA3	1:W:193:TYR:HA	1.87	0.56
1:I:108:THR:HG23	1:I:110:TRP:H	1.69	0.56
1:I:217:TRP:NE1	1:I:239:ARG:HD2	2.20	0.56
1:J:239:ARG:NH2	1:J:239:ARG:HB3	2.20	0.56
1:K:137:VAL:HG21	1:K:519:LEU:HD23	1.87	0.56
1:M:108:THR:HG23	1:M:110:TRP:H	1.69	0.56
1:M:546:PHE:HA	1:M:555:GLU:O	2.04	0.56
1:N:152:LYS:HA	1:N:169:ASN:HA	1.87	0.56
1:N:217:TRP:NE1	1:N:239:ARG:HD2	2.20	0.56
1:O:34:GLY:HA2	1:4:37:HIS:HE1	1.70	0.56
1:Q:546:PHE:HA	1:Q:555:GLU:O	2.04	0.56
1:S:137:VAL:HG21	1:S:519:LEU:HD23	1.87	0.56
1:S:311:GLY:HA3	1:U:193:TYR:HA	1.87	0.56
1:T:34:GLY:HA2	1:c:37:HIS:HE1	1.71	0.56
1:T:335:SER:N	1:T:435:THR:HG22	2.12	0.56
1:U:176:GLN:NE2	1:U:486:LYS:HE3	2.19	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:V:335:SER:N	1:V:435:THR:HG22	2.11	0.56
1:Z:137:VAL:HG21	1:Z:519:LEU:HD23	1.87	0.56
1:Z:193:TYR:HA	1:w:311:GLY:HA3	1.87	0.56
1:4:217:TRP:NE1	1:4:239:ARG:HD2	2.20	0.56
1:5:137:VAL:HG21	1:5:519:LEU:HD23	1.87	0.56
1:b:217:TRP:NE1	1:b:239:ARG:HD2	2.20	0.56
1:c:108:THR:HG23	1:c:110:TRP:H	1.69	0.56
1:i:335:SER:N	1:i:435:THR:HG22	2.12	0.56
1:j:217:TRP:NE1	1:j:239:ARG:HD2	2.20	0.56
1:q:311:GLY:HA3	1:r:193:TYR:HA	1.87	0.56
1:r:137:VAL:HG21	1:r:519:LEU:HD23	1.87	0.56
1:t:34:GLY:HA2	1:x:37:HIS:HE1	1.70	0.56
1:t:217:TRP:NE1	1:t:239:ARG:HD2	2.20	0.56
1:v:37:HIS:HE1	1:w:34:GLY:HA2	1.70	0.56
1:w:193:TYR:HA	1:x:311:GLY:HA3	1.87	0.56
1:7:217:TRP:NE1	1:7:239:ARG:HD2	2.20	0.56
1:0:176:GLN:NE2	1:0:486:LYS:HE3	2.19	0.56
1:A:217:TRP:NE1	1:A:239:ARG:HD2	2.20	0.56
1:C:239:ARG:NH2	1:C:239:ARG:HB3	2.20	0.56
1:E:335:SER:N	1:E:435:THR:HG22	2.12	0.56
1:F:37:HIS:HE1	1:G:34:GLY:HA2	1.71	0.56
1:G:37:HIS:HE1	1:W:34:GLY:HA2	1.70	0.56
1:G:311:GLY:HA3	1:I:193:TYR:HA	1.87	0.56
1:H:37:HIS:HE1	1:I:34:GLY:HA2	1.70	0.56
1:I:137:VAL:HG21	1:I:519:LEU:HD23	1.87	0.56
1:I:335:SER:H	1:I:435:THR:CG2	2.13	0.56
1:M:34:GLY:HA2	1:3:37:HIS:HE1	1.70	0.56
1:N:137:VAL:HG21	1:N:519:LEU:HD23	1.87	0.56
1:N:546:PHE:HA	1:N:555:GLU:O	2.05	0.56
1:P:176:GLN:NE2	1:P:486:LYS:HE3	2.19	0.56
1:Q:137:VAL:HG21	1:Q:519:LEU:HD23	1.87	0.56
1:R:239:ARG:NH2	1:R:239:ARG:HB3	2.19	0.56
1:U:37:HIS:HE1	1:5:34:GLY:HA2	1.70	0.56
1:U:152:LYS:HA	1:U:169:ASN:HA	1.87	0.56
1:U:217:TRP:NE1	1:U:239:ARG:HD2	2.20	0.56
1:V:193:TYR:HA	1:X:311:GLY:HA3	1.87	0.56
1:W:152:LYS:HA	1:W:169:ASN:HA	1.87	0.56
1:Y:137:VAL:HG21	1:Y:519:LEU:HD23	1.87	0.56
1:2:37:HIS:HE1	1:i:34:GLY:HA2	1.71	0.56
1:2:546:PHE:HA	1:2:555:GLU:O	2.04	0.56
1:3:176:GLN:NE2	1:3:486:LYS:HE3	2.19	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:3:217:TRP:NE1	1:3:239:ARG:HD2	2.20	0.56
1:6:239:ARG:NH2	1:6:239:ARG:HB3	2.20	0.56
1:c:546:PHE:HA	1:c:555:GLU:O	2.04	0.56
1:d:34:GLY:HA2	1:f:37:HIS:HE1	1.70	0.56
1:d:546:PHE:HA	1:d:555:GLU:O	2.05	0.56
1:g:546:PHE:HA	1:g:555:GLU:O	2.04	0.56
1:i:217:TRP:NE1	1:i:239:ARG:HD2	2.20	0.56
1:l:546:PHE:HA	1:l:555:GLU:O	2.04	0.56
1:n:34:GLY:HA2	1:s:37:HIS:HE1	1.70	0.56
1:n:137:VAL:HG21	1:n:519:LEU:HD23	1.87	0.56
1:n:335:SER:H	1:n:435:THR:CG2	2.13	0.56
1:r:152:LYS:HA	1:r:169:ASN:HA	1.87	0.56
1:r:217:TRP:NE1	1:r:239:ARG:HD2	2.20	0.56
1:s:176:GLN:NE2	1:s:486:LYS:HE3	2.19	0.56
1:t:193:TYR:HA	1:v:311:GLY:HA3	1.87	0.56
1:w:152:LYS:HA	1:w:169:ASN:HA	1.87	0.56
1:y:239:ARG:NH2	1:y:239:ARG:HB3	2.20	0.56
1:y:335:SER:H	1:y:435:THR:CG2	2.13	0.56
1:z:311:GLY:HA3	1:7:193:TYR:HA	1.87	0.56
1:7:152:LYS:HA	1:7:169:ASN:HA	1.87	0.56
1:7:176:GLN:NE2	1:7:486:LYS:HE3	2.19	0.56
1:0:239:ARG:NH2	1:0:239:ARG:HB3	2.20	0.56
1:A:311:GLY:HA3	1:G:193:TYR:HA	1.88	0.56
1:B:217:TRP:NE1	1:B:239:ARG:HD2	2.20	0.56
1:F:376:LYS:HD2	1:Q:316:ASP:HA	1.87	0.56
1:G:152:LYS:HA	1:G:169:ASN:HA	1.88	0.56
1:H:239:ARG:NH2	1:H:239:ARG:HB3	2.20	0.56
1:J:152:LYS:HA	1:J:169:ASN:HA	1.87	0.56
1:K:34:GLY:HA2	1:7:37:HIS:HE1	1.70	0.56
1:P:217:TRP:NE1	1:P:239:ARG:HD2	2.20	0.56
1:R:137:VAL:HG21	1:R:519:LEU:HD23	1.87	0.56
1:T:311:GLY:HA3	1:4:193:TYR:HA	1.87	0.56
1:X:217:TRP:NE1	1:X:239:ARG:HD2	2.20	0.56
1:1:217:TRP:NE1	1:1:239:ARG:HD2	2.20	0.56
1:1:311:GLY:HA3	1:0:193:TYR:HA	1.87	0.56
1:2:335:SER:H	1:2:435:THR:CG2	2.13	0.56
1:6:152:LYS:HA	1:6:169:ASN:HA	1.87	0.56
1:c:335:SER:H	1:c:435:THR:CG2	2.13	0.56
1:f:176:GLN:NE2	1:f:486:LYS:HE3	2.19	0.56
1:f:217:TRP:NE1	1:f:239:ARG:HD2	2.20	0.56
1:o:546:PHE:HA	1:o:555:GLU:O	2.04	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:r:546:PHE:HA	1:r:555:GLU:O	2.05	0.56
1:s:152:LYS:HA	1:s:169:ASN:HA	1.88	0.56
1:t:137:VAL:HG21	1:t:519:LEU:HD23	1.87	0.56
1:u:217:TRP:NE1	1:u:239:ARG:HD2	2.20	0.56
1:v:152:LYS:HA	1:v:169:ASN:HA	1.87	0.56
1:w:108:THR:HG23	1:w:110:TRP:H	1.69	0.56
1:x:239:ARG:NH2	1:x:239:ARG:HB3	2.20	0.56
1:B:137:VAL:HG21	1:B:519:LEU:HD23	1.87	0.56
1:B:193:TYR:HA	1:L:311:GLY:HA3	1.87	0.56
1:I:335:SER:N	1:I:435:THR:HG22	2.12	0.56
1:J:137:VAL:HG21	1:J:519:LEU:HD23	1.87	0.56
1:J:217:TRP:NE1	1:J:239:ARG:HD2	2.20	0.56
1:K:37:HIS:HE1	1:L:34:GLY:HA2	1.71	0.56
1:K:176:GLN:NE2	1:K:486:LYS:HE3	2.19	0.56
1:O:152:LYS:HA	1:O:169:ASN:HA	1.87	0.56
1:P:152:LYS:HA	1:P:169:ASN:HA	1.88	0.56
1:R:335:SER:N	1:R:435:THR:HG22	2.12	0.56
1:S:217:TRP:NE1	1:S:239:ARG:HD2	2.20	0.56
1:V:311:GLY:HA3	1:5:193:TYR:HA	1.87	0.56
1:W:546:PHE:HA	1:W:555:GLU:O	2.05	0.56
1:Y:546:PHE:HA	1:Y:555:GLU:O	2.04	0.56
1:3:137:VAL:HG21	1:3:519:LEU:HD23	1.87	0.56
1:4:137:VAL:HG21	1:4:519:LEU:HD23	1.87	0.56
1:5:37:HIS:HE1	1:b:34:GLY:HA2	1.71	0.56
1:5:176:GLN:NE2	1:5:486:LYS:HE3	2.19	0.56
1:a:137:VAL:HG21	1:a:519:LEU:HD23	1.87	0.56
1:a:193:TYR:HA	1:b:311:GLY:HA3	1.87	0.56
1:a:217:TRP:NE1	1:a:239:ARG:HD2	2.20	0.56
1:e:239:ARG:NH2	1:e:239:ARG:HB3	2.20	0.56
1:f:137:VAL:HG21	1:f:519:LEU:HD23	1.87	0.56
1:k:152:LYS:HA	1:k:169:ASN:HA	1.88	0.56
1:p:63:ARG:NH1	1:p:201:PRO:HA	2.19	0.56
1:s:217:TRP:NE1	1:s:239:ARG:HD2	2.20	0.56
1:t:335:SER:H	1:t:435:THR:CG2	2.13	0.56
1:y:137:VAL:HG21	1:y:519:LEU:HD23	1.87	0.56
1:z:152:LYS:HA	1:z:169:ASN:HA	1.87	0.56
1:E:63:ARG:NH1	1:E:201:PRO:HA	2.19	0.56
1:F:546:PHE:HA	1:F:555:GLU:O	2.04	0.56
1:K:193:TYR:HA	1:0:311:GLY:HA3	1.87	0.56
1:M:217:TRP:NE1	1:M:239:ARG:HD2	2.20	0.56
1:Q:335:SER:N	1:Q:435:THR:HG22	2.11	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:S:152:LYS:HA	1:S:169:ASN:HA	1.88	0.56
1:V:217:TRP:NE1	1:V:239:ARG:HD2	2.20	0.56
1:Y:217:TRP:NE1	1:Y:239:ARG:HD2	2.20	0.56
1:Z:318:SER:CB	1:x:393:GLN:NE2	2.69	0.56
1:6:137:VAL:HG21	1:6:519:LEU:HD23	1.87	0.56
1:6:217:TRP:NE1	1:6:239:ARG:HD2	2.20	0.56
1:i:311:GLY:HA3	1:j:193:TYR:HA	1.87	0.56
1:j:137:VAL:HG21	1:j:519:LEU:HD23	1.87	0.56
1:n:37:HIS:HE1	1:z:34:GLY:HA2	1.70	0.56
1:o:37:HIS:HE1	1:v:34:GLY:HA2	1.71	0.56
1:q:152:LYS:HA	1:q:169:ASN:HA	1.87	0.56
1:w:546:PHE:HA	1:w:555:GLU:O	2.05	0.56
1:B:34:GLY:HA2	1:C:37:HIS:HE1	1.70	0.56
1:C:217:TRP:NE1	1:C:239:ARG:HD2	2.20	0.56
1:D:152:LYS:HA	1:D:169:ASN:HA	1.88	0.56
1:E:217:TRP:NE1	1:E:239:ARG:HD2	2.20	0.56
1:E:275:THR:HG21	1:E:472:PRO:HB2	1.88	0.56
1:G:546:PHE:HA	1:G:555:GLU:O	2.05	0.56
1:H:393:GLN:NE2	1:Y:318:SER:CB	2.69	0.56
1:W:108:THR:HG23	1:W:110:TRP:H	1.69	0.56
1:Z:217:TRP:NE1	1:Z:239:ARG:HD2	2.20	0.56
1:Z:546:PHE:HA	1:Z:555:GLU:O	2.05	0.56
1:3:152:LYS:HA	1:3:169:ASN:HA	1.87	0.56
1:c:176:GLN:NE2	1:c:486:LYS:HE3	2.19	0.56
1:e:217:TRP:NE1	1:e:239:ARG:HD2	2.20	0.56
1:m:217:TRP:NE1	1:m:239:ARG:HD2	2.20	0.56
1:o:311:GLY:HA3	1:p:193:TYR:HA	1.87	0.56
1:p:275:THR:HG21	1:p:472:PRO:HB2	1.88	0.56
1:p:335:SER:N	1:p:435:THR:HG22	2.12	0.56
1:t:311:GLY:HA3	1:u:193:TYR:HA	1.87	0.56
1:t:335:SER:N	1:t:435:THR:HG22	2.12	0.56
1:v:546:PHE:HA	1:v:555:GLU:O	2.05	0.56
1:z:217:TRP:NE1	1:z:239:ARG:HD2	2.20	0.56
1:A:193:TYR:HA	1:I:311:GLY:HA3	1.87	0.56
1:A:275:THR:HG21	1:A:472:PRO:HB2	1.88	0.56
1:L:137:VAL:HG21	1:L:519:LEU:HD23	1.87	0.56
1:Q:152:LYS:HA	1:Q:169:ASN:HA	1.88	0.56
1:Q:217:TRP:NE1	1:Q:239:ARG:HD2	2.20	0.56
1:R:34:GLY:HA2	1:V:37:HIS:HE1	1.70	0.56
1:S:37:HIS:HE1	1:4:34:GLY:HA2	1.71	0.56
1:Y:152:LYS:HA	1:Y:169:ASN:HA	1.87	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:a:37:HIS:HE1	1:u:34:GLY:HA2	1.71	0.56
1:b:137:VAL:HG21	1:b:519:LEU:HD23	1.87	0.56
1:d:217:TRP:NE1	1:d:239:ARG:HD2	2.20	0.56
1:h:217:TRP:NE1	1:h:239:ARG:HD2	2.20	0.56
1:n:152:LYS:HA	1:n:169:ASN:HA	1.87	0.56
1:n:193:TYR:HA	1:p:311:GLY:HA3	1.87	0.56
1:u:275:THR:HG21	1:u:472:PRO:HB2	1.88	0.56
1:y:34:GLY:HA2	1:0:37:HIS:HE1	1.71	0.56
1:0:217:TRP:NE1	1:0:239:ARG:HD2	2.20	0.56
1:L:58:VAL:HG22	1:L:518:ILE:HG12	1.88	0.56
1:V:34:GLY:HA2	1:W:37:HIS:HE1	1.70	0.56
1:Z:152:LYS:HA	1:Z:169:ASN:HA	1.87	0.56
1:2:176:GLN:NE2	1:2:486:LYS:HE3	2.19	0.56
1:4:176:GLN:NE2	1:4:486:LYS:HE3	2.19	0.56
1:5:152:LYS:HA	1:5:169:ASN:HA	1.87	0.56
1:c:311:GLY:HA3	1:d:193:TYR:HA	1.87	0.56
1:j:176:GLN:NE2	1:j:486:LYS:HE3	2.19	0.56
1:k:217:TRP:NE1	1:k:239:ARG:HD2	2.20	0.56
1:n:217:TRP:NE1	1:n:239:ARG:HD2	2.20	0.56
1:n:275:THR:HG21	1:n:472:PRO:HB2	1.88	0.56
1:p:217:TRP:NE1	1:p:239:ARG:HD2	2.20	0.56
1:y:335:SER:N	1:y:435:THR:HG22	2.11	0.56
1:C:152:LYS:HA	1:C:169:ASN:HA	1.87	0.56
1:C:311:GLY:HA3	1:2:193:TYR:HA	1.87	0.56
1:I:37:HIS:HE1	1:J:34:GLY:HA2	1.70	0.56
1:Q:275:THR:HG21	1:Q:472:PRO:HB2	1.88	0.56
1:1:58:VAL:HG22	1:1:518:ILE:HG12	1.88	0.56
1:a:34:GLY:HA2	1:e:37:HIS:HE1	1.70	0.56
1:b:58:VAL:HG22	1:b:518:ILE:HG12	1.88	0.56
1:e:335:SER:H	1:e:435:THR:CG2	2.13	0.56
1:f:152:LYS:HA	1:f:169:ASN:HA	1.88	0.56
1:h:58:VAL:HG22	1:h:518:ILE:HG12	1.88	0.56
1:h:137:VAL:HG21	1:h:519:LEU:HD23	1.87	0.56
1:l:311:GLY:HA3	1:m:193:TYR:HA	1.87	0.56
1:m:58:VAL:HG22	1:m:518:ILE:HG12	1.88	0.56
1:m:137:VAL:HG21	1:m:519:LEU:HD23	1.87	0.56
1:n:335:SER:N	1:n:435:THR:HG22	2.12	0.56
1:o:275:THR:HG21	1:o:472:PRO:HB2	1.88	0.56
1:w:58:VAL:HG22	1:w:518:ILE:HG12	1.88	0.56
1:D:137:VAL:HG21	1:D:519:LEU:HD23	1.87	0.55
1:F:275:THR:HG21	1:F:472:PRO:HB2	1.88	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:152:LYS:HA	1:K:169:ASN:HA	1.87	0.55
1:L:152:LYS:HA	1:L:169:ASN:HA	1.88	0.55
1:O:217:TRP:NE1	1:O:239:ARG:HD2	2.20	0.55
1:R:217:TRP:NE1	1:R:239:ARG:HD2	2.20	0.55
1:R:275:THR:HG21	1:R:472:PRO:HB2	1.88	0.55
1:T:37:HIS:HE1	1:U:34:GLY:HA2	1.70	0.55
1:T:137:VAL:HG21	1:T:519:LEU:HD23	1.87	0.55
1:W:58:VAL:HG22	1:W:518:ILE:HG12	1.88	0.55
1:X:58:VAL:HG22	1:X:518:ILE:HG12	1.88	0.55
1:3:34:GLY:HA2	1:m:37:HIS:HE1	1.70	0.55
1:5:217:TRP:NE1	1:5:239:ARG:HD2	2.20	0.55
1:6:34:GLY:HA2	1:t:37:HIS:HE1	1.70	0.55
1:b:152:LYS:HA	1:b:169:ASN:HA	1.87	0.55
1:c:193:TYR:HA	1:e:311:GLY:HA3	1.87	0.55
1:e:152:LYS:HA	1:e:169:ASN:HA	1.87	0.55
1:f:335:SER:N	1:f:435:THR:HG22	2.12	0.55
1:g:217:TRP:NE1	1:g:239:ARG:HD2	2.20	0.55
1:j:34:GLY:HA2	1:z:37:HIS:HE1	1.71	0.55
1:l:58:VAL:HG22	1:l:518:ILE:HG12	1.88	0.55
1:l:217:TRP:NE1	1:l:239:ARG:HD2	2.20	0.55
1:l:468:SER:OG	1:l:471:ALA:O	2.21	0.55
1:n:311:GLY:HA3	1:o:193:TYR:HA	1.87	0.55
1:q:137:VAL:HG21	1:q:519:LEU:HD23	1.87	0.55
1:w:37:HIS:HE1	1:0:34:GLY:HA2	1.70	0.55
1:D:58:VAL:HG22	1:D:518:ILE:HG12	1.88	0.55
1:E:335:SER:H	1:E:435:THR:CG2	2.13	0.55
1:J:58:VAL:HG22	1:J:518:ILE:HG12	1.88	0.55
1:Q:551:ILE:HD11	1:R:298:ALA:HA	1.88	0.55
1:V:335:SER:H	1:V:435:THR:CG2	2.13	0.55
1:6:58:VAL:HG22	1:6:518:ILE:HG12	1.88	0.55
1:d:152:LYS:HA	1:d:169:ASN:HA	1.87	0.55
1:g:58:VAL:HG22	1:g:518:ILE:HG12	1.88	0.55
1:g:311:GLY:HA3	1:h:193:TYR:HA	1.87	0.55
1:g:318:SER:CB	1:h:393:GLN:NE2	2.69	0.55
1:g:468:SER:OG	1:g:471:ALA:O	2.21	0.55
1:h:152:LYS:HA	1:h:169:ASN:HA	1.87	0.55
1:i:137:VAL:HG21	1:i:519:LEU:HD23	1.87	0.55
1:l:152:LYS:HA	1:l:169:ASN:HA	1.87	0.55
1:l:318:SER:CB	1:m:393:GLN:NE2	2.69	0.55
1:m:152:LYS:HA	1:m:169:ASN:HA	1.88	0.55
1:p:58:VAL:HG22	1:p:518:ILE:HG12	1.88	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:q:58:VAL:HG22	1:q:518:ILE:HG12	1.88	0.55
1:x:58:VAL:HG22	1:x:518:ILE:HG12	1.88	0.55
1:C:275:THR:HG21	1:C:472:PRO:HB2	1.88	0.55
1:D:275:THR:HG21	1:D:472:PRO:HB2	1.88	0.55
1:D:335:SER:H	1:D:435:THR:CG2	2.13	0.55
1:H:58:VAL:HG22	1:H:518:ILE:HG12	1.88	0.55
1:K:217:TRP:NE1	1:K:239:ARG:HD2	2.20	0.55
1:M:152:LYS:HA	1:M:169:ASN:HA	1.87	0.55
1:M:193:TYR:HA	1:2:311:GLY:HA3	1.87	0.55
1:P:275:THR:HG21	1:P:472:PRO:HB2	1.88	0.55
1:S:275:THR:HG21	1:S:472:PRO:HB2	1.88	0.55
1:T:58:VAL:HG22	1:T:518:ILE:HG12	1.88	0.55
1:2:137:VAL:HG21	1:2:519:LEU:HD23	1.87	0.55
1:3:275:THR:HG21	1:3:472:PRO:HB2	1.88	0.55
1:4:275:THR:HG21	1:4:472:PRO:HB2	1.88	0.55
1:e:137:VAL:HG21	1:e:519:LEU:HD23	1.87	0.55
1:e:275:THR:HG21	1:e:472:PRO:HB2	1.88	0.55
1:f:34:GLY:HA2	1:h:37:HIS:HE1	1.70	0.55
1:g:152:LYS:HA	1:g:169:ASN:HA	1.87	0.55
1:i:58:VAL:HG22	1:i:518:ILE:HG12	1.88	0.55
1:i:152:LYS:HA	1:i:169:ASN:HA	1.87	0.55
1:j:275:THR:HG21	1:j:472:PRO:HB2	1.88	0.55
1:y:217:TRP:NE1	1:y:239:ARG:HD2	2.20	0.55
1:y:275:THR:HG21	1:y:472:PRO:HB2	1.88	0.55
1:z:275:THR:HG21	1:z:472:PRO:HB2	1.88	0.55
1:0:335:SER:H	1:0:435:THR:CG2	2.13	0.55
1:B:152:LYS:HA	1:B:169:ASN:HA	1.87	0.55
1:B:311:GLY:HA3	1:J:193:TYR:HA	1.87	0.55
1:C:137:VAL:HG21	1:C:519:LEU:HD23	1.87	0.55
1:C:335:SER:H	1:C:435:THR:CG2	2.13	0.55
1:E:58:VAL:HG22	1:E:518:ILE:HG12	1.89	0.55
1:M:137:VAL:HG21	1:M:519:LEU:HD23	1.87	0.55
1:O:275:THR:HG21	1:O:472:PRO:HB2	1.88	0.55
1:T:152:LYS:HA	1:T:169:ASN:HA	1.87	0.55
1:X:152:LYS:HA	1:X:169:ASN:HA	1.87	0.55
1:X:193:TYR:HA	1:5:311:GLY:HA3	1.87	0.55
1:1:152:LYS:HA	1:1:169:ASN:HA	1.87	0.55
1:a:152:LYS:HA	1:a:169:ASN:HA	1.88	0.55
1:d:137:VAL:HG21	1:d:519:LEU:HD23	1.87	0.55
1:f:275:THR:HG21	1:f:472:PRO:HB2	1.88	0.55
1:i:37:HIS:HE1	1:7:34:GLY:HA2	1.70	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:k:193:TYR:HA	1:m:311:GLY:HA3	1.87	0.55
1:k:275:THR:HG21	1:k:472:PRO:HB2	1.88	0.55
1:o:34:GLY:HA2	1:y:37:HIS:HE1	1.70	0.55
1:q:275:THR:HG21	1:q:472:PRO:HB2	1.88	0.55
1:s:275:THR:HG21	1:s:472:PRO:HB2	1.88	0.55
1:t:58:VAL:HG22	1:t:518:ILE:HG12	1.88	0.55
1:t:152:LYS:HA	1:t:169:ASN:HA	1.87	0.55
1:t:275:THR:HG21	1:t:472:PRO:HB2	1.88	0.55
1:y:58:VAL:HG22	1:y:518:ILE:HG12	1.88	0.55
1:7:58:VAL:HG22	1:7:518:ILE:HG12	1.88	0.55
1:I:58:VAL:HG22	1:I:518:ILE:HG12	1.88	0.55
1:I:152:LYS:HA	1:I:169:ASN:HA	1.88	0.55
1:K:311:GLY:HA3	1:1:193:TYR:HA	1.87	0.55
1:O:137:VAL:HG21	1:O:519:LEU:HD23	1.87	0.55
1:P:137:VAL:HG21	1:P:519:LEU:HD23	1.87	0.55
1:U:58:VAL:HG22	1:U:518:ILE:HG12	1.88	0.55
1:X:339:TRP:HE3	1:X:350:ILE:HD11	1.72	0.55
1:Z:339:TRP:HE3	1:Z:350:ILE:HD11	1.72	0.55
1:1:339:TRP:HE3	1:1:350:ILE:HD11	1.72	0.55
1:3:335:SER:N	1:3:435:THR:HG22	2.12	0.55
1:4:152:LYS:HA	1:4:169:ASN:HA	1.87	0.55
1:c:137:VAL:HG21	1:c:519:LEU:HD23	1.87	0.55
1:e:58:VAL:HG22	1:e:518:ILE:HG12	1.88	0.55
1:h:339:TRP:HE3	1:h:350:ILE:HD11	1.72	0.55
1:k:137:VAL:HG21	1:k:519:LEU:HD23	1.87	0.55
1:m:339:TRP:HE3	1:m:350:ILE:HD11	1.72	0.55
1:r:275:THR:HG21	1:r:472:PRO:HB2	1.88	0.55
1:s:137:VAL:HG21	1:s:519:LEU:HD23	1.87	0.55
1:u:152:LYS:HA	1:u:169:ASN:HA	1.87	0.55
1:7:217:TRP:CE2	1:7:239:ARG:CD	2.90	0.55
1:0:152:LYS:HA	1:0:169:ASN:HA	1.87	0.55
1:A:152:LYS:HA	1:A:169:ASN:HA	1.87	0.55
1:A:318:SER:CB	1:G:393:GLN:NE2	2.70	0.55
1:C:58:VAL:HG22	1:C:518:ILE:HG12	1.88	0.55
1:C:193:TYR:HA	1:M:311:GLY:HA3	1.87	0.55
1:I:275:THR:HG21	1:I:472:PRO:HB2	1.88	0.55
1:L:217:TRP:CE2	1:L:239:ARG:CD	2.90	0.55
1:O:193:TYR:HA	1:h:311:GLY:HA3	1.87	0.55
1:P:335:SER:H	1:P:435:THR:CG2	2.13	0.55
1:S:339:TRP:HE3	1:S:350:ILE:HD11	1.72	0.55
1:U:217:TRP:CE2	1:U:239:ARG:CD	2.90	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:U:335:SER:N	1:U:435:THR:HG22	2.11	0.55
1:V:152:LYS:HA	1:V:169:ASN:HA	1.88	0.55
1:V:275:THR:HG21	1:V:472:PRO:HB2	1.88	0.55
1:V:339:TRP:HE3	1:V:350:ILE:HD11	1.72	0.55
1:Y:339:TRP:HE3	1:Y:350:ILE:HD11	1.72	0.55
1:3:393:GLN:NE2	1:j:318:SER:CB	2.70	0.55
1:6:193:TYR:HA	1:a:311:GLY:HA3	1.87	0.55
1:6:275:THR:HG21	1:6:472:PRO:HB2	1.88	0.55
1:d:311:GLY:HA3	1:e:193:TYR:HA	1.87	0.55
1:h:176:GLN:NE2	1:h:486:LYS:HE3	2.19	0.55
1:m:176:GLN:NE2	1:m:486:LYS:HE3	2.19	0.55
1:o:217:TRP:CE2	1:o:239:ARG:CD	2.90	0.55
1:p:335:SER:H	1:p:435:THR:CG2	2.13	0.55
1:q:335:SER:H	1:q:435:THR:CG2	2.13	0.55
1:z:339:TRP:HE3	1:z:350:ILE:HD11	1.72	0.55
1:0:339:TRP:HE3	1:0:350:ILE:HD11	1.72	0.55
1:A:339:TRP:HE3	1:A:350:ILE:HD11	1.72	0.55
1:B:58:VAL:HG22	1:B:518:ILE:HG12	1.88	0.55
1:F:217:TRP:CE2	1:F:239:ARG:CD	2.90	0.55
1:F:217:TRP:NE1	1:F:239:ARG:HD2	2.20	0.55
1:G:335:SER:N	1:G:435:THR:HG22	2.11	0.55
1:N:275:THR:HG21	1:N:472:PRO:HB2	1.88	0.55
1:O:176:GLN:NE2	1:O:486:LYS:HE3	2.19	0.55
1:R:58:VAL:HG22	1:R:518:ILE:HG12	1.88	0.55
1:X:176:GLN:NE2	1:X:486:LYS:HE3	2.19	0.55
1:1:176:GLN:NE2	1:1:486:LYS:HE3	2.19	0.55
1:1:217:TRP:CE2	1:1:239:ARG:CD	2.90	0.55
1:2:217:TRP:CE2	1:2:239:ARG:CD	2.90	0.55
1:3:217:TRP:CE2	1:3:239:ARG:CD	2.90	0.55
1:4:318:SER:CB	1:f:393:GLN:NE2	2.70	0.55
1:e:34:GLY:HA2	1:q:37:HIS:HE1	1.71	0.55
1:g:217:TRP:CE2	1:g:239:ARG:CD	2.90	0.55
1:g:275:THR:HG21	1:g:472:PRO:HB2	1.88	0.55
1:j:152:LYS:HA	1:j:169:ASN:HA	1.88	0.55
1:k:176:GLN:NE2	1:k:486:LYS:HE3	2.19	0.55
1:l:217:TRP:CE2	1:l:239:ARG:CD	2.90	0.55
1:l:275:THR:HG21	1:l:472:PRO:HB2	1.88	0.55
1:o:217:TRP:NE1	1:o:239:ARG:HD2	2.20	0.55
1:s:335:SER:H	1:s:435:THR:CG2	2.13	0.55
1:u:339:TRP:HE3	1:u:350:ILE:HD11	1.72	0.55
1:v:217:TRP:NE1	1:v:239:ARG:HD2	2.20	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:x:275:THR:HG21	1:x:472:PRO:HB2	1.88	0.55
1:x:335:SER:N	1:x:435:THR:HG22	2.12	0.55
1:0:275:THR:HG21	1:0:472:PRO:HB2	1.88	0.55
1:B:217:TRP:CE2	1:B:239:ARG:CD	2.90	0.55
1:B:275:THR:HG21	1:B:472:PRO:HB2	1.88	0.55
1:G:217:TRP:NE1	1:G:239:ARG:HD2	2.20	0.55
1:G:275:THR:HG21	1:G:472:PRO:HB2	1.88	0.55
1:H:152:LYS:HA	1:H:169:ASN:HA	1.88	0.55
1:H:275:THR:HG21	1:H:472:PRO:HB2	1.88	0.55
1:M:275:THR:HG21	1:M:472:PRO:HB2	1.88	0.55
1:Y:335:SER:H	1:Y:435:THR:CG2	2.13	0.55
1:2:152:LYS:HA	1:2:169:ASN:HA	1.87	0.55
1:a:58:VAL:HG22	1:a:518:ILE:HG12	1.88	0.55
1:a:217:TRP:CE2	1:a:239:ARG:CD	2.90	0.55
1:a:275:THR:HG21	1:a:472:PRO:HB2	1.88	0.55
1:b:217:TRP:CE2	1:b:239:ARG:CD	2.90	0.55
1:c:217:TRP:CE2	1:c:239:ARG:CD	2.90	0.55
1:j:339:TRP:HE3	1:j:350:ILE:HD11	1.72	0.55
1:n:318:SER:CB	1:o:393:GLN:NE2	2.70	0.55
1:C:34:GLY:HA2	1:D:37:HIS:HE1	1.71	0.55
1:E:152:LYS:HA	1:E:169:ASN:HA	1.87	0.55
1:F:34:GLY:HA2	1:R:37:HIS:HE1	1.70	0.55
1:H:176:GLN:NE2	1:H:486:LYS:HE3	2.19	0.55
1:H:335:SER:N	1:H:435:THR:HG22	2.12	0.55
1:J:275:THR:HG21	1:J:472:PRO:HB2	1.88	0.55
1:W:275:THR:HG21	1:W:472:PRO:HB2	1.88	0.55
1:Z:335:SER:H	1:Z:435:THR:CG2	2.13	0.55
1:Z:393:GLN:NE2	1:w:318:SER:CB	2.70	0.55
1:4:339:TRP:HE3	1:4:350:ILE:HD11	1.72	0.55
1:j:217:TRP:CE2	1:j:239:ARG:CD	2.90	0.55
1:v:275:THR:HG21	1:v:472:PRO:HB2	1.88	0.55
1:w:275:THR:HG21	1:w:472:PRO:HB2	1.88	0.55
1:x:152:LYS:HA	1:x:169:ASN:HA	1.88	0.55
1:x:339:TRP:HE3	1:x:350:ILE:HD11	1.72	0.55
1:D:34:GLY:HA2	1:E:37:HIS:HE1	1.70	0.55
1:F:217:TRP:O	1:F:236:LYS:HA	2.07	0.55
1:H:339:TRP:HE3	1:H:350:ILE:HD11	1.72	0.55
1:K:339:TRP:HE3	1:K:350:ILE:HD11	1.72	0.55
1:W:318:SER:CB	1:Y:393:GLN:NE2	2.70	0.55
1:W:339:TRP:HE3	1:W:350:ILE:HD11	1.72	0.55
1:Y:298:ALA:HA	1:Z:551:ILE:HD11	1.89	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Y:551:ILE:HD11	1:Z:298:ALA:HA	1.89	0.55
1:4:217:TRP:CE2	1:4:239:ARG:CD	2.90	0.55
1:b:275:THR:HG21	1:b:472:PRO:HB2	1.88	0.55
1:c:152:LYS:HA	1:c:169:ASN:HA	1.88	0.55
1:j:58:VAL:HG22	1:j:518:ILE:HG12	1.88	0.55
1:j:468:SER:OG	1:j:471:ALA:O	2.21	0.55
1:l:339:TRP:HE3	1:l:350:ILE:HD11	1.72	0.55
1:p:37:HIS:HE1	1:q:34:GLY:HA2	1.70	0.55
1:p:152:LYS:HA	1:p:169:ASN:HA	1.87	0.55
1:w:339:TRP:HE3	1:w:350:ILE:HD11	1.72	0.55
1:x:176:GLN:NE2	1:x:486:LYS:HE3	2.19	0.55
1:C:318:SER:CB	1:2:393:GLN:NE2	2.70	0.54
1:E:217:TRP:O	1:E:236:LYS:HA	2.08	0.54
1:G:318:SER:CB	1:I:393:GLN:NE2	2.70	0.54
1:J:318:SER:CB	1:L:393:GLN:NE2	2.71	0.54
1:K:217:TRP:O	1:K:236:LYS:HA	2.07	0.54
1:L:275:THR:HG21	1:L:472:PRO:HB2	1.88	0.54
1:M:176:GLN:NE2	1:M:486:LYS:HE3	2.19	0.54
1:N:58:VAL:HG22	1:N:518:ILE:HG12	1.88	0.54
1:N:551:ILE:HD11	1:O:298:ALA:HA	1.89	0.54
1:P:217:TRP:CE2	1:P:239:ARG:CD	2.90	0.54
1:R:318:SER:CB	1:S:393:GLN:NE2	2.70	0.54
1:S:318:SER:CB	1:U:393:GLN:NE2	2.71	0.54
1:U:275:THR:HG21	1:U:472:PRO:HB2	1.88	0.54
1:Y:58:VAL:HG22	1:Y:518:ILE:HG12	1.88	0.54
1:4:58:VAL:HG22	1:4:518:ILE:HG12	1.88	0.54
1:5:217:TRP:O	1:5:236:LYS:HA	2.07	0.54
1:5:339:TRP:HE3	1:5:350:ILE:HD11	1.72	0.54
1:6:318:SER:CB	1:b:393:GLN:NE2	2.70	0.54
1:d:176:GLN:NE2	1:d:486:LYS:HE3	2.19	0.54
1:d:275:THR:HG21	1:d:472:PRO:HB2	1.88	0.54
1:g:339:TRP:HE3	1:g:350:ILE:HD11	1.72	0.54
1:p:217:TRP:O	1:p:236:LYS:HA	2.08	0.54
1:y:318:SER:CB	1:z:393:GLN:NE2	2.70	0.54
1:7:217:TRP:O	1:7:236:LYS:HA	2.08	0.54
1:B:393:GLN:NE2	1:L:318:SER:CB	2.70	0.54
1:C:339:TRP:HE3	1:C:350:ILE:HD11	1.72	0.54
1:E:176:GLN:NE2	1:E:486:LYS:HE3	2.19	0.54
1:E:298:ALA:HA	1:P:551:ILE:HD11	1.90	0.54
1:E:311:GLY:HA3	1:Q:193:TYR:HA	1.88	0.54
1:E:393:GLN:NE2	1:F:318:SER:CB	2.70	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:217:TRP:O	1:L:236:LYS:HA	2.07	0.54
1:M:339:TRP:HE3	1:M:350:ILE:HD11	1.72	0.54
1:U:217:TRP:O	1:U:236:LYS:HA	2.08	0.54
1:W:335:SER:H	1:W:435:THR:CG2	2.13	0.54
1:Y:117:SER:HB2	1:Y:191:ASN:HD21	1.73	0.54
1:Z:275:THR:HG21	1:Z:472:PRO:HB2	1.88	0.54
1:a:393:GLN:NE2	1:b:318:SER:CB	2.70	0.54
1:b:217:TRP:O	1:b:236:LYS:HA	2.08	0.54
1:c:393:GLN:NE2	1:e:318:SER:CB	2.70	0.54
1:e:339:TRP:HE3	1:e:350:ILE:HD11	1.72	0.54
1:g:117:SER:HB2	1:g:191:ASN:HD21	1.73	0.54
1:k:117:SER:HB2	1:k:191:ASN:HD21	1.73	0.54
1:k:298:ALA:HA	1:r:551:ILE:HD11	1.89	0.54
1:o:217:TRP:O	1:o:236:LYS:HA	2.08	0.54
1:r:58:VAL:HG22	1:r:518:ILE:HG12	1.88	0.54
1:s:217:TRP:CE2	1:s:239:ARG:CD	2.90	0.54
1:t:393:GLN:NE2	1:v:318:SER:CB	2.70	0.54
1:v:58:VAL:HG22	1:v:518:ILE:HG12	1.88	0.54
1:v:335:SER:N	1:v:435:THR:HG22	2.11	0.54
1:7:275:THR:HG21	1:7:472:PRO:HB2	1.88	0.54
1:A:34:GLY:HA2	1:B:37:HIS:HE1	1.72	0.54
1:B:217:TRP:O	1:B:236:LYS:HA	2.08	0.54
1:C:217:TRP:CE2	1:C:239:ARG:CD	2.90	0.54
1:D:318:SER:CB	1:N:393:GLN:NE2	2.70	0.54
1:F:339:TRP:HE3	1:F:350:ILE:HD11	1.72	0.54
1:K:318:SER:CB	1:1:393:GLN:NE2	2.70	0.54
1:O:117:SER:HB2	1:O:191:ASN:HD21	1.73	0.54
1:R:217:TRP:O	1:R:236:LYS:HA	2.07	0.54
1:X:217:TRP:O	1:X:236:LYS:HA	2.08	0.54
1:Y:275:THR:HG21	1:Y:472:PRO:HB2	1.88	0.54
1:Z:58:VAL:HG22	1:Z:518:ILE:HG12	1.88	0.54
1:Z:117:SER:HB2	1:Z:191:ASN:HD21	1.73	0.54
1:1:217:TRP:O	1:1:236:LYS:HA	2.08	0.54
1:d:318:SER:CB	1:e:393:GLN:NE2	2.70	0.54
1:e:217:TRP:CE2	1:e:239:ARG:CD	2.90	0.54
1:f:335:SER:H	1:f:435:THR:CG2	2.13	0.54
1:l:117:SER:HB2	1:l:191:ASN:HD21	1.73	0.54
1:n:217:TRP:O	1:n:236:LYS:HA	2.08	0.54
1:r:117:SER:HB2	1:r:191:ASN:HD21	1.73	0.54
1:s:217:TRP:O	1:s:236:LYS:HA	2.08	0.54
1:t:318:SER:CB	1:u:393:GLN:NE2	2.71	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:w:217:TRP:O	1:w:236:LYS:HA	2.08	0.54
1:y:152:LYS:HA	1:y:169:ASN:HA	1.87	0.54
1:z:318:SER:CB	1:7:393:GLN:NE2	2.71	0.54
1:D:217:TRP:O	1:D:236:LYS:HA	2.07	0.54
1:D:393:GLN:NE2	1:P:318:SER:CB	2.71	0.54
1:G:58:VAL:HG22	1:G:518:ILE:HG12	1.88	0.54
1:N:117:SER:HB2	1:N:191:ASN:HD21	1.73	0.54
1:N:217:TRP:O	1:N:236:LYS:HA	2.08	0.54
1:O:318:SER:CB	1:g:393:GLN:NE2	2.70	0.54
1:Q:217:TRP:O	1:Q:236:LYS:HA	2.08	0.54
1:Q:339:TRP:HE3	1:Q:350:ILE:HD11	1.72	0.54
1:W:217:TRP:O	1:W:236:LYS:HA	2.08	0.54
1:a:217:TRP:O	1:a:236:LYS:HA	2.08	0.54
1:d:339:TRP:HE3	1:d:350:ILE:HD11	1.72	0.54
1:h:217:TRP:CE2	1:h:239:ARG:CD	2.90	0.54
1:i:117:SER:HB2	1:i:191:ASN:HD21	1.73	0.54
1:k:318:SER:CB	1:l:393:GLN:NE2	2.70	0.54
1:p:176:GLN:NE2	1:p:486:LYS:HE3	2.19	0.54
1:p:339:TRP:HE3	1:p:350:ILE:HD11	1.72	0.54
1:q:393:GLN:NE2	1:s:318:SER:CB	2.71	0.54
1:u:217:TRP:CE2	1:u:239:ARG:CD	2.90	0.54
1:y:117:SER:HB2	1:y:191:ASN:HD21	1.73	0.54
1:C:393:GLN:NE2	1:M:318:SER:CB	2.71	0.54
1:E:339:TRP:HE3	1:E:350:ILE:HD11	1.72	0.54
1:F:117:SER:HB2	1:F:191:ASN:HD21	1.73	0.54
1:H:117:SER:HB2	1:H:191:ASN:HD21	1.73	0.54
1:K:58:VAL:HG22	1:K:518:ILE:HG12	1.88	0.54
1:M:217:TRP:O	1:M:236:LYS:HA	2.07	0.54
1:M:393:GLN:NE2	1:2:318:SER:CB	2.71	0.54
1:N:339:TRP:HE3	1:N:350:ILE:HD11	1.72	0.54
1:O:339:TRP:HE3	1:O:350:ILE:HD11	1.72	0.54
1:O:393:GLN:NE2	1:h:318:SER:CB	2.71	0.54
1:P:217:TRP:O	1:P:236:LYS:HA	2.08	0.54
1:R:117:SER:HB2	1:R:191:ASN:HD21	1.73	0.54
1:R:152:LYS:HA	1:R:169:ASN:HA	1.87	0.54
1:R:217:TRP:CE2	1:R:239:ARG:CD	2.90	0.54
1:T:117:SER:HB2	1:T:191:ASN:HD21	1.73	0.54
1:T:275:THR:HG21	1:T:472:PRO:HB2	1.88	0.54
1:X:393:GLN:NE2	1:5:318:SER:CB	2.71	0.54
1:5:58:VAL:HG22	1:5:518:ILE:HG12	1.88	0.54
1:c:318:SER:CB	1:d:393:GLN:NE2	2.71	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:d:217:TRP:O	1:d:236:LYS:HA	2.08	0.54
1:e:217:TRP:O	1:e:236:LYS:HA	2.08	0.54
1:k:393:GLN:NE2	1:m:318:SER:CB	2.71	0.54
1:m:217:TRP:CE2	1:m:239:ARG:CD	2.90	0.54
1:o:339:TRP:HE3	1:o:350:ILE:HD11	1.72	0.54
1:q:217:TRP:O	1:q:236:LYS:HA	2.07	0.54
1:q:318:SER:CB	1:r:393:GLN:NE2	2.71	0.54
1:r:217:TRP:O	1:r:236:LYS:HA	2.08	0.54
1:r:339:TRP:HE3	1:r:350:ILE:HD11	1.72	0.54
1:s:58:VAL:HG22	1:s:518:ILE:HG12	1.88	0.54
1:u:217:TRP:O	1:u:236:LYS:HA	2.08	0.54
1:v:339:TRP:HE3	1:v:350:ILE:HD11	1.72	0.54
1:y:217:TRP:O	1:y:236:LYS:HA	2.08	0.54
1:A:217:TRP:CE2	1:A:239:ARG:CD	2.90	0.54
1:A:217:TRP:O	1:A:236:LYS:HA	2.08	0.54
1:C:217:TRP:O	1:C:236:LYS:HA	2.08	0.54
1:F:393:GLN:NE2	1:Q:318:SER:CB	2.71	0.54
1:G:217:TRP:CE2	1:G:239:ARG:CD	2.90	0.54
1:G:339:TRP:HE3	1:G:350:ILE:HD11	1.72	0.54
1:H:217:TRP:O	1:H:236:LYS:HA	2.08	0.54
1:O:217:TRP:CE2	1:O:239:ARG:CD	2.90	0.54
1:O:217:TRP:O	1:O:236:LYS:HA	2.08	0.54
1:P:58:VAL:HG22	1:P:518:ILE:HG12	1.88	0.54
1:R:339:TRP:HE3	1:R:350:ILE:HD11	1.72	0.54
1:S:58:VAL:HG22	1:S:518:ILE:HG12	1.88	0.54
1:S:217:TRP:CE2	1:S:239:ARG:CD	2.90	0.54
1:T:339:TRP:HE3	1:T:350:ILE:HD11	1.72	0.54
1:W:298:ALA:HA	1:X:551:ILE:HD11	1.89	0.54
1:6:217:TRP:O	1:6:236:LYS:HA	2.08	0.54
1:6:393:GLN:NE2	1:a:318:SER:CB	2.71	0.54
1:i:275:THR:HG21	1:i:472:PRO:HB2	1.88	0.54
1:i:339:TRP:HE3	1:i:350:ILE:HD11	1.72	0.54
1:k:217:TRP:O	1:k:236:LYS:HA	2.08	0.54
1:l:34:GLY:HA2	1:r:37:HIS:HE1	1.72	0.54
1:n:339:TRP:HE3	1:n:350:ILE:HD11	1.72	0.54
1:u:318:SER:CB	1:v:393:GLN:NE2	2.71	0.54
1:w:335:SER:H	1:w:435:THR:CG2	2.13	0.54
1:x:117:SER:HB2	1:x:191:ASN:HD21	1.73	0.54
1:x:217:TRP:O	1:x:236:LYS:HA	2.08	0.54
1:y:217:TRP:CE2	1:y:239:ARG:CD	2.90	0.54
1:z:217:TRP:CE2	1:z:239:ARG:CD	2.90	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:318:SER:CB	1:J:393:GLN:NE2	2.71	0.54
1:D:117:SER:HB2	1:D:191:ASN:HD21	1.73	0.54
1:E:318:SER:CB	1:Q:393:GLN:NE2	2.70	0.54
1:F:58:VAL:HG22	1:F:518:ILE:HG12	1.88	0.54
1:G:217:TRP:O	1:G:236:LYS:HA	2.08	0.54
1:I:117:SER:HB2	1:I:191:ASN:HD21	1.73	0.54
1:I:339:TRP:HE3	1:I:350:ILE:HD11	1.72	0.54
1:J:217:TRP:O	1:J:236:LYS:HA	2.08	0.54
1:M:58:VAL:HG22	1:M:518:ILE:HG12	1.88	0.54
1:U:339:TRP:HE3	1:U:350:ILE:HD11	1.72	0.54
1:Y:217:TRP:CE2	1:Y:239:ARG:CD	2.90	0.54
1:Z:217:TRP:CE2	1:Z:239:ARG:CD	2.90	0.54
1:1:551:ILE:HD11	1:w:298:ALA:HA	1.89	0.54
1:2:117:SER:HB2	1:2:191:ASN:HD21	1.73	0.54
1:3:335:SER:H	1:3:435:THR:CG2	2.13	0.54
1:a:339:TRP:HE3	1:a:350:ILE:HD11	1.72	0.54
1:d:58:VAL:HG22	1:d:518:ILE:HG12	1.88	0.54
1:k:217:TRP:CE2	1:k:239:ARG:CD	2.90	0.54
1:k:339:TRP:HE3	1:k:350:ILE:HD11	1.72	0.54
1:p:298:ALA:HA	1:s:551:ILE:HD11	1.90	0.54
1:q:117:SER:HB2	1:q:191:ASN:HD21	1.73	0.54
1:t:339:TRP:HE3	1:t:350:ILE:HD11	1.72	0.54
1:y:176:GLN:NE2	1:y:486:LYS:HE3	2.19	0.54
1:y:339:TRP:HE3	1:y:350:ILE:HD11	1.72	0.54
1:z:58:VAL:HG22	1:z:518:ILE:HG12	1.88	0.54
1:0:58:VAL:HG22	1:0:518:ILE:HG12	1.88	0.54
1:C:551:ILE:HD11	1:L:298:ALA:HA	1.90	0.54
1:E:342:HIS:HE1	1:F:406:ASN:CB	2.21	0.54
1:G:551:ILE:HD11	1:H:298:ALA:HA	1.90	0.54
1:N:37:HIS:HE1	1:g:34:GLY:HA2	1.72	0.54
1:R:176:GLN:NE2	1:R:486:LYS:HE3	2.19	0.54
1:V:58:VAL:HG22	1:V:518:ILE:HG12	1.88	0.54
1:V:318:SER:CB	1:5:393:GLN:NE2	2.71	0.54
1:X:275:THR:HG21	1:X:472:PRO:HB2	1.88	0.54
1:1:275:THR:HG21	1:1:472:PRO:HB2	1.88	0.54
1:2:275:THR:HG21	1:2:472:PRO:HB2	1.88	0.54
1:3:318:SER:CB	1:i:393:GLN:NE2	2.71	0.54
1:3:339:TRP:HE3	1:3:350:ILE:HD11	1.72	0.54
1:c:117:SER:HB2	1:c:191:ASN:HD21	1.73	0.54
1:g:298:ALA:HA	1:l:551:ILE:HD11	1.89	0.54
1:h:275:THR:HG21	1:h:472:PRO:HB2	1.88	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:m:275:THR:HG21	1:m:472:PRO:HB2	1.88	0.54
1:o:117:SER:HB2	1:o:191:ASN:HD21	1.73	0.54
1:q:339:TRP:HE3	1:q:350:ILE:HD11	1.72	0.54
1:t:117:SER:HB2	1:t:191:ASN:HD21	1.73	0.54
1:v:217:TRP:CE2	1:v:239:ARG:CD	2.90	0.54
1:v:217:TRP:O	1:v:236:LYS:HA	2.08	0.54
1:0:217:TRP:O	1:0:236:LYS:HA	2.08	0.54
1:A:393:GLN:NE2	1:I:318:SER:CB	2.71	0.54
1:B:339:TRP:HE3	1:B:350:ILE:HD11	1.72	0.54
1:D:298:ALA:HA	1:M:551:ILE:HD11	1.90	0.54
1:D:339:TRP:HE3	1:D:350:ILE:HD11	1.72	0.54
1:D:406:ASN:CB	1:N:342:HIS:HE1	2.21	0.54
1:J:339:TRP:HE3	1:J:350:ILE:HD11	1.72	0.54
1:L:117:SER:HB2	1:L:191:ASN:HD21	1.73	0.54
1:O:406:ASN:CG	1:g:342:HIS:HE1	2.16	0.54
1:Q:58:VAL:HG22	1:Q:518:ILE:HG12	1.88	0.54
1:T:342:HIS:HE1	1:f:406:ASN:CG	2.16	0.54
1:T:393:GLN:NE2	1:f:318:SER:CB	2.71	0.54
1:U:117:SER:HB2	1:U:191:ASN:HD21	1.73	0.54
1:V:393:GLN:NE2	1:X:318:SER:CB	2.71	0.54
1:1:318:SER:CB	1:0:393:GLN:NE2	2.71	0.54
1:2:298:ALA:HA	1:3:551:ILE:HD11	1.90	0.54
1:c:298:ALA:HA	1:f:551:ILE:HD11	1.90	0.54
1:d:217:TRP:CE2	1:d:239:ARG:CD	2.90	0.54
1:d:551:ILE:HD11	1:q:298:ALA:HA	1.90	0.54
1:f:339:TRP:HE3	1:f:350:ILE:HD11	1.72	0.54
1:g:551:ILE:HD11	1:l:298:ALA:HA	1.89	0.54
1:k:406:ASN:CG	1:l:342:HIS:HE1	2.16	0.54
1:n:58:VAL:HG22	1:n:518:ILE:HG12	1.88	0.54
1:o:58:VAL:HG22	1:o:518:ILE:HG12	1.88	0.54
1:o:318:SER:CB	1:p:393:GLN:NE2	2.71	0.54
1:v:551:ILE:HD11	1:x:298:ALA:HA	1.90	0.54
1:G:406:ASN:CB	1:I:342:HIS:HE1	2.22	0.54
1:J:217:TRP:CE2	1:J:239:ARG:CD	2.90	0.54
1:J:551:ILE:HD11	1:K:298:ALA:HA	1.90	0.54
1:S:217:TRP:O	1:S:236:LYS:HA	2.08	0.54
1:T:342:HIS:HE1	1:f:406:ASN:CB	2.21	0.54
1:V:117:SER:HB2	1:V:191:ASN:HD21	1.73	0.54
1:V:217:TRP:O	1:V:236:LYS:HA	2.08	0.54
1:X:37:HIS:HE1	1:Y:34:GLY:HA2	1.72	0.54
1:Z:342:HIS:HE1	1:w:406:ASN:CB	2.21	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:3:58:VAL:HG22	1:3:518:ILE:HG12	1.88	0.54
1:3:406:ASN:CB	1:i:342:HIS:HE1	2.21	0.54
1:5:298:ALA:HA	1:6:551:ILE:HD11	1.90	0.54
1:b:117:SER:HB2	1:b:191:ASN:HD21	1.73	0.54
1:b:298:ALA:HA	1:e:551:ILE:HD11	1.90	0.54
1:c:339:TRP:HE3	1:c:350:ILE:HD11	1.72	0.54
1:d:117:SER:HB2	1:d:191:ASN:HD21	1.73	0.54
1:f:58:VAL:HG22	1:f:518:ILE:HG12	1.88	0.54
1:h:335:SER:H	1:h:435:THR:CG2	2.13	0.54
1:m:117:SER:HB2	1:m:191:ASN:HD21	1.73	0.54
1:m:335:SER:H	1:m:435:THR:CG2	2.13	0.54
1:q:406:ASN:CB	1:r:342:HIS:HE1	2.21	0.54
1:t:217:TRP:O	1:t:236:LYS:HA	2.08	0.54
1:t:342:HIS:HE1	1:v:406:ASN:CB	2.22	0.54
1:x:217:TRP:CE2	1:x:239:ARG:CD	2.90	0.54
1:z:217:TRP:O	1:z:236:LYS:HA	2.08	0.54
1:7:339:TRP:HE3	1:7:350:ILE:HD11	1.72	0.54
1:0:117:SER:HB2	1:0:191:ASN:HD21	1.73	0.54
1:A:58:VAL:HG22	1:A:518:ILE:HG12	1.88	0.53
1:D:342:HIS:HE1	1:P:406:ASN:CB	2.21	0.53
1:H:217:TRP:CE2	1:H:239:ARG:CD	2.90	0.53
1:H:342:HIS:HE1	1:Y:406:ASN:CG	2.16	0.53
1:I:217:TRP:CE2	1:I:239:ARG:CD	2.90	0.53
1:I:217:TRP:O	1:I:236:LYS:HA	2.08	0.53
1:J:406:ASN:CB	1:L:342:HIS:HE1	2.21	0.53
1:K:393:GLN:NE2	1:0:318:SER:CB	2.71	0.53
1:N:318:SER:CB	1:P:393:GLN:NE2	2.71	0.53
1:Q:37:HIS:CE1	1:S:34:GLY:HA2	2.42	0.53
1:R:233:GLN:OE1	1:R:236:LYS:HB3	2.09	0.53
1:R:393:GLN:NE2	1:U:318:SER:CB	2.71	0.53
1:T:217:TRP:CE2	1:T:239:ARG:CD	2.90	0.53
1:T:217:TRP:O	1:T:236:LYS:HA	2.08	0.53
1:T:318:SER:CB	1:4:393:GLN:NE2	2.71	0.53
1:W:406:ASN:CB	1:Y:342:HIS:HE1	2.21	0.53
1:X:356:PHE:HB2	1:X:405:THR:HG22	1.91	0.53
1:Y:356:PHE:HB2	1:Y:405:THR:HG22	1.91	0.53
1:Z:34:GLY:HA2	1:1:37:HIS:HE1	1.72	0.53
1:Z:356:PHE:HB2	1:Z:405:THR:HG22	1.91	0.53
1:1:356:PHE:HB2	1:1:405:THR:HG22	1.91	0.53
1:2:339:TRP:HE3	1:2:350:ILE:HD11	1.72	0.53
1:4:298:ALA:HA	1:h:551:ILE:HD11	1.90	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:5:217:TRP:CE2	1:5:239:ARG:CD	2.90	0.53
1:6:217:TRP:CE2	1:6:239:ARG:CD	2.90	0.53
1:6:406:ASN:CB	1:b:342:HIS:HE1	2.21	0.53
1:b:339:TRP:HE3	1:b:350:ILE:HD11	1.72	0.53
1:c:275:THR:HG21	1:c:472:PRO:HB2	1.88	0.53
1:f:217:TRP:O	1:f:236:LYS:HA	2.08	0.53
1:g:217:TRP:O	1:g:236:LYS:HA	2.08	0.53
1:g:450:PRO:HB2	1:g:451:TRP:CD2	2.44	0.53
1:k:58:VAL:HG22	1:k:518:ILE:HG12	1.88	0.53
1:l:217:TRP:O	1:l:236:LYS:HA	2.08	0.53
1:l:450:PRO:HB2	1:l:451:TRP:CD2	2.44	0.53
1:n:298:ALA:HA	1:y:551:ILE:HD11	1.90	0.53
1:q:342:HIS:HE1	1:s:406:ASN:CB	2.21	0.53
1:r:318:SER:CB	1:s:393:GLN:NE2	2.71	0.53
1:s:339:TRP:HE3	1:s:350:ILE:HD11	1.72	0.53
1:u:58:VAL:HG22	1:u:518:ILE:HG12	1.88	0.53
1:y:393:GLN:NE2	1:7:318:SER:CB	2.71	0.53
1:7:551:ILE:HD11	1:0:298:ALA:HA	1.90	0.53
1:D:217:TRP:CE2	1:D:239:ARG:CD	2.90	0.53
1:D:406:ASN:CG	1:N:342:HIS:HE1	2.16	0.53
1:K:217:TRP:CE2	1:K:239:ARG:CD	2.90	0.53
1:K:406:ASN:CB	1:1:342:HIS:HE1	2.21	0.53
1:L:339:TRP:HE3	1:L:350:ILE:HD11	1.72	0.53
1:L:450:PRO:HB2	1:L:451:TRP:CD2	2.44	0.53
1:M:117:SER:HB2	1:M:191:ASN:HD21	1.73	0.53
1:M:217:TRP:CE2	1:M:239:ARG:CD	2.90	0.53
1:O:233:GLN:OE1	1:O:236:LYS:HB3	2.09	0.53
1:U:551:ILE:HD11	1:V:298:ALA:HA	1.90	0.53
1:V:342:HIS:HE1	1:X:406:ASN:CB	2.21	0.53
1:V:356:PHE:HB2	1:V:405:THR:HG22	1.91	0.53
1:W:233:GLN:OE1	1:W:236:LYS:HB3	2.09	0.53
1:X:342:HIS:HE1	1:5:406:ASN:CB	2.21	0.53
1:1:406:ASN:CB	1:0:342:HIS:HE1	2.21	0.53
1:2:58:VAL:HG22	1:2:518:ILE:HG12	1.88	0.53
1:2:233:GLN:OE1	1:2:236:LYS:HB3	2.09	0.53
1:3:406:ASN:CG	1:i:342:HIS:HE1	2.16	0.53
1:5:468:SER:OG	1:5:471:ALA:O	2.22	0.53
1:6:339:TRP:HE3	1:6:350:ILE:HD11	1.72	0.53
1:b:450:PRO:HB2	1:b:451:TRP:CD2	2.44	0.53
1:c:233:GLN:OE1	1:c:236:LYS:HB3	2.09	0.53
1:f:450:PRO:HB2	1:f:451:TRP:CD2	2.44	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:h:117:SER:HB2	1:h:191:ASN:HD21	1.73	0.53
1:i:217:TRP:CE2	1:i:239:ARG:CD	2.90	0.53
1:j:298:ALA:HA	1:m:551:ILE:HD11	1.90	0.53
1:j:551:ILE:HD11	1:m:298:ALA:HA	1.90	0.53
1:k:233:GLN:OE1	1:k:236:LYS:HB3	2.09	0.53
1:n:342:HIS:HE1	1:p:406:ASN:CB	2.21	0.53
1:n:393:GLN:NE2	1:p:318:SER:CB	2.71	0.53
1:p:233:GLN:OE1	1:p:236:LYS:HB3	2.09	0.53
1:q:406:ASN:CG	1:r:342:HIS:HE1	2.16	0.53
1:r:450:PRO:HB2	1:r:451:TRP:CD2	2.44	0.53
1:t:217:TRP:CE2	1:t:239:ARG:CD	2.90	0.53
1:u:406:ASN:CB	1:v:342:HIS:HE1	2.21	0.53
1:w:233:GLN:OE1	1:w:236:LYS:HB3	2.09	0.53
1:y:233:GLN:OE1	1:y:236:LYS:HB3	2.09	0.53
1:7:117:SER:HB2	1:7:191:ASN:HD21	1.73	0.53
1:B:298:ALA:HA	1:I:551:ILE:HD11	1.90	0.53
1:F:468:SER:OG	1:F:471:ALA:O	2.21	0.53
1:J:450:PRO:HB2	1:J:451:TRP:CD2	2.44	0.53
1:N:450:PRO:HB2	1:N:451:TRP:CD2	2.44	0.53
1:S:298:ALA:HA	1:T:551:ILE:HD11	1.90	0.53
1:Z:406:ASN:CG	1:x:342:HIS:HE1	2.16	0.53
1:3:217:TRP:O	1:3:236:LYS:HA	2.08	0.53
1:3:450:PRO:HB2	1:3:451:TRP:CD2	2.44	0.53
1:4:551:ILE:HD11	1:h:298:ALA:HA	1.90	0.53
1:6:450:PRO:HB2	1:6:451:TRP:CD2	2.44	0.53
1:a:298:ALA:HA	1:t:551:ILE:HD11	1.90	0.53
1:c:58:VAL:HG22	1:c:518:ILE:HG12	1.88	0.53
1:c:551:ILE:HD11	1:f:298:ALA:HA	1.90	0.53
1:i:217:TRP:O	1:i:236:LYS:HA	2.08	0.53
1:i:318:SER:CB	1:j:393:GLN:NE2	2.71	0.53
1:i:551:ILE:HD11	1:z:298:ALA:HA	1.90	0.53
1:j:217:TRP:O	1:j:236:LYS:HA	2.08	0.53
1:n:406:ASN:CG	1:o:342:HIS:HE1	2.16	0.53
1:q:217:TRP:CE2	1:q:239:ARG:CD	2.90	0.53
1:q:450:PRO:HB2	1:q:451:TRP:CD2	2.44	0.53
1:w:117:SER:HB2	1:w:191:ASN:HD21	1.73	0.53
1:0:356:PHE:HB2	1:0:405:THR:HG22	1.91	0.53
1:C:298:ALA:HA	1:L:551:ILE:HD11	1.90	0.53
1:C:342:HIS:HE1	1:M:406:ASN:CB	2.21	0.53
1:C:342:HIS:HE1	1:M:406:ASN:CG	2.16	0.53
1:D:450:PRO:HB2	1:D:451:TRP:CD2	2.44	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:233:GLN:OE1	1:E:236:LYS:HB3	2.09	0.53
1:E:342:HIS:HE1	1:F:406:ASN:CG	2.15	0.53
1:G:233:GLN:OE1	1:G:236:LYS:HB3	2.09	0.53
1:I:356:PHE:HB2	1:I:405:THR:HG22	1.91	0.53
1:K:356:PHE:HB2	1:K:405:THR:HG22	1.91	0.53
1:K:450:PRO:HB2	1:K:451:TRP:CD2	2.44	0.53
1:L:356:PHE:HB2	1:L:405:THR:HG22	1.91	0.53
1:N:217:TRP:CE2	1:N:239:ARG:CD	2.90	0.53
1:O:58:VAL:HG22	1:O:518:ILE:HG12	1.89	0.53
1:P:339:TRP:HE3	1:P:350:ILE:HD11	1.72	0.53
1:Q:298:ALA:HA	1:R:551:ILE:HD11	1.91	0.53
1:Q:468:SER:OG	1:Q:471:ALA:O	2.22	0.53
1:R:406:ASN:CB	1:S:342:HIS:HE1	2.21	0.53
1:R:450:PRO:HB2	1:R:451:TRP:CD2	2.44	0.53
1:V:217:TRP:CE2	1:V:239:ARG:CD	2.90	0.53
1:X:117:SER:HB2	1:X:191:ASN:HD21	1.73	0.53
1:1:117:SER:HB2	1:1:191:ASN:HD21	1.73	0.53
1:2:450:PRO:HB2	1:2:451:TRP:CD2	2.44	0.53
1:4:217:TRP:O	1:4:236:LYS:HA	2.08	0.53
1:4:335:SER:H	1:4:435:THR:CG2	2.13	0.53
1:5:275:THR:HG21	1:5:472:PRO:HB2	1.88	0.53
1:5:356:PHE:HB2	1:5:405:THR:HG22	1.91	0.53
1:5:450:PRO:HB2	1:5:451:TRP:CD2	2.44	0.53
1:a:335:SER:H	1:a:435:THR:CG2	2.13	0.53
1:b:356:PHE:HB2	1:b:405:THR:HG22	1.91	0.53
1:c:450:PRO:HB2	1:c:451:TRP:CD2	2.44	0.53
1:e:356:PHE:HB2	1:e:405:THR:HG22	1.91	0.53
1:h:450:PRO:HB2	1:h:451:TRP:CD2	2.44	0.53
1:o:406:ASN:CB	1:p:342:HIS:HE1	2.21	0.53
1:v:233:GLN:OE1	1:v:236:LYS:HB3	2.09	0.53
1:w:393:GLN:NE2	1:x:318:SER:CB	2.71	0.53
1:y:342:HIS:HE1	1:7:406:ASN:CB	2.21	0.53
1:A:298:ALA:HA	1:F:551:ILE:HD11	1.89	0.53
1:C:356:PHE:HB2	1:C:405:THR:HG22	1.91	0.53
1:C:406:ASN:CB	1:2:342:HIS:HE1	2.21	0.53
1:E:217:TRP:CE2	1:E:239:ARG:CD	2.90	0.53
1:F:335:SER:H	1:F:435:THR:CG2	2.13	0.53
1:H:318:SER:CB	1:W:393:GLN:NE2	2.71	0.53
1:I:233:GLN:OE1	1:I:236:LYS:HB3	2.09	0.53
1:K:468:SER:OG	1:K:471:ALA:O	2.22	0.53
1:R:342:HIS:HE1	1:U:406:ASN:CB	2.21	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:S:468:SER:OG	1:S:471:ALA:O	2.21	0.53
1:T:406:ASN:CB	1:4:342:HIS:HE1	2.21	0.53
1:W:117:SER:HB2	1:W:191:ASN:HD21	1.73	0.53
1:W:217:TRP:CE2	1:W:239:ARG:CD	2.90	0.53
1:Y:217:TRP:O	1:Y:236:LYS:HA	2.08	0.53
1:Z:217:TRP:O	1:Z:236:LYS:HA	2.08	0.53
1:1:233:GLN:OE1	1:1:236:LYS:HB3	2.09	0.53
1:2:551:ILE:HD11	1:3:298:ALA:HA	1.91	0.53
1:5:233:GLN:OE1	1:5:236:LYS:HB3	2.09	0.53
1:c:217:TRP:O	1:c:236:LYS:HA	2.08	0.53
1:d:298:ALA:HA	1:q:551:ILE:HD11	1.90	0.53
1:d:406:ASN:CG	1:e:342:HIS:HE1	2.17	0.53
1:d:406:ASN:CB	1:e:342:HIS:HE1	2.21	0.53
1:e:468:SER:OG	1:e:471:ALA:O	2.21	0.53
1:g:233:GLN:OE1	1:g:236:LYS:HB3	2.09	0.53
1:h:217:TRP:O	1:h:236:LYS:HA	2.07	0.53
1:l:233:GLN:OE1	1:l:236:LYS:HB3	2.09	0.53
1:m:217:TRP:O	1:m:236:LYS:HA	2.08	0.53
1:m:450:PRO:HB2	1:m:451:TRP:CD2	2.44	0.53
1:o:468:SER:OG	1:o:471:ALA:O	2.22	0.53
1:r:217:TRP:CE2	1:r:239:ARG:CD	2.90	0.53
1:t:233:GLN:OE1	1:t:236:LYS:HB3	2.09	0.53
1:t:356:PHE:HB2	1:t:405:THR:HG22	1.91	0.53
1:w:217:TRP:CE2	1:w:239:ARG:CD	2.90	0.53
1:y:406:ASN:CB	1:z:342:HIS:HE1	2.21	0.53
1:y:450:PRO:HB2	1:y:451:TRP:CD2	2.44	0.53
1:z:117:SER:HB2	1:z:191:ASN:HD21	1.73	0.53
1:C:233:GLN:OE1	1:C:236:LYS:HB3	2.09	0.53
1:C:468:SER:OG	1:C:471:ALA:O	2.22	0.53
1:F:233:GLN:OE1	1:F:236:LYS:HB3	2.09	0.53
1:J:77:ILE:HG12	1:J:106:VAL:HB	1.91	0.53
1:K:233:GLN:OE1	1:K:236:LYS:HB3	2.09	0.53
1:K:275:THR:HG21	1:K:472:PRO:HB2	1.88	0.53
1:P:233:GLN:OE1	1:P:236:LYS:HB3	2.09	0.53
1:P:356:PHE:HB2	1:P:405:THR:HG22	1.91	0.53
1:R:356:PHE:HB2	1:R:405:THR:HG22	1.91	0.53
1:X:450:PRO:HB2	1:X:451:TRP:CD2	2.44	0.53
1:Z:450:PRO:HB2	1:Z:451:TRP:CD2	2.44	0.53
1:1:450:PRO:HB2	1:1:451:TRP:CD2	2.44	0.53
1:2:217:TRP:O	1:2:236:LYS:HA	2.08	0.53
1:6:77:ILE:HG12	1:6:106:VAL:HB	1.91	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:b:551:ILE:HD11	1:e:298:ALA:HA	1.90	0.53
1:e:233:GLN:OE1	1:e:236:LYS:HB3	2.09	0.53
1:i:406:ASN:CB	1:j:342:HIS:HE1	2.21	0.53
1:j:335:SER:H	1:j:435:THR:CG2	2.13	0.53
1:n:468:SER:OG	1:n:471:ALA:O	2.22	0.53
1:r:356:PHE:HB2	1:r:405:THR:HG22	1.91	0.53
1:w:356:PHE:HB2	1:w:405:THR:HG22	1.91	0.53
1:z:450:PRO:HB2	1:z:451:TRP:CD2	2.44	0.53
1:7:450:PRO:HB2	1:7:451:TRP:CD2	2.44	0.53
1:0:217:TRP:CE2	1:0:239:ARG:CD	2.90	0.53
1:A:551:ILE:HD11	1:F:298:ALA:HA	1.90	0.53
1:B:335:SER:H	1:B:435:THR:CG2	2.13	0.53
1:B:406:ASN:CB	1:J:342:HIS:HE1	2.21	0.53
1:B:450:PRO:HB2	1:B:451:TRP:CD2	2.44	0.53
1:D:551:ILE:HD11	1:M:298:ALA:HA	1.90	0.53
1:E:117:SER:HB2	1:E:191:ASN:HD21	1.73	0.53
1:G:117:SER:HB2	1:G:191:ASN:HD21	1.73	0.53
1:H:450:PRO:HB2	1:H:451:TRP:CD2	2.44	0.53
1:N:233:GLN:OE1	1:N:236:LYS:HB3	2.09	0.53
1:P:117:SER:HB2	1:P:191:ASN:HD21	1.73	0.53
1:S:117:SER:HB2	1:S:191:ASN:HD21	1.73	0.53
1:S:233:GLN:OE1	1:S:236:LYS:HB3	2.09	0.53
1:S:356:PHE:HB2	1:S:405:THR:HG22	1.91	0.53
1:S:406:ASN:CB	1:U:342:HIS:HE1	2.21	0.53
1:S:450:PRO:HB2	1:S:451:TRP:CD2	2.44	0.53
1:S:551:ILE:HD11	1:T:298:ALA:HA	1.90	0.53
1:U:298:ALA:HA	1:V:551:ILE:HD11	1.90	0.53
1:V:450:PRO:HB2	1:V:451:TRP:CD2	2.44	0.53
1:W:356:PHE:HB2	1:W:405:THR:HG22	1.91	0.53
1:X:233:GLN:OE1	1:X:236:LYS:HB3	2.09	0.53
1:Y:450:PRO:HB2	1:Y:451:TRP:CD2	2.44	0.53
1:3:117:SER:HB2	1:3:191:ASN:HD21	1.73	0.53
1:3:342:HIS:HE1	1:j:406:ASN:CB	2.22	0.53
1:4:77:ILE:HG12	1:4:106:VAL:HB	1.91	0.53
1:a:450:PRO:HB2	1:a:451:TRP:CD2	2.44	0.53
1:c:342:HIS:HE1	1:e:406:ASN:CB	2.21	0.53
1:j:77:ILE:HG12	1:j:106:VAL:HB	1.91	0.53
1:k:356:PHE:HB2	1:k:405:THR:HG22	1.91	0.53
1:n:233:GLN:OE1	1:n:236:LYS:HB3	2.09	0.53
1:n:406:ASN:CB	1:o:342:HIS:HE1	2.21	0.53
1:n:551:ILE:HD11	1:y:298:ALA:HA	1.90	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:o:233:GLN:OE1	1:o:236:LYS:HB3	2.09	0.53
1:p:217:TRP:CE2	1:p:239:ARG:CD	2.90	0.53
1:s:233:GLN:OE1	1:s:236:LYS:HB3	2.09	0.53
1:s:356:PHE:HB2	1:s:405:THR:HG22	1.91	0.53
1:x:450:PRO:HB2	1:x:451:TRP:CD2	2.44	0.53
1:z:356:PHE:HB2	1:z:405:THR:HG22	1.91	0.53
1:z:468:SER:OG	1:z:471:ALA:O	2.22	0.53
1:7:233:GLN:OE1	1:7:236:LYS:HB3	2.09	0.53
1:A:117:SER:HB2	1:A:191:ASN:HD21	1.73	0.53
1:A:468:SER:OG	1:A:471:ALA:O	2.22	0.53
1:H:192:MET:SD	1:Y:327:VAL:HG13	2.49	0.53
1:I:450:PRO:HB2	1:I:451:TRP:CD2	2.44	0.53
1:N:356:PHE:HB2	1:N:405:THR:HG22	1.91	0.53
1:O:356:PHE:HB2	1:O:405:THR:HG22	1.91	0.53
1:O:406:ASN:CB	1:g:342:HIS:HE1	2.21	0.53
1:P:468:SER:OG	1:P:471:ALA:O	2.22	0.53
1:T:77:ILE:HG12	1:T:106:VAL:HB	1.91	0.53
1:Y:386:ASP:CG	1:Y:387:ASP:OD1	2.52	0.53
1:3:233:GLN:OE1	1:3:236:LYS:HB3	2.09	0.53
1:4:145:THR:OG1	1:4:514:THR:OG1	2.27	0.53
1:6:342:HIS:HE1	1:a:406:ASN:CB	2.21	0.53
1:e:117:SER:HB2	1:e:191:ASN:HD21	1.73	0.53
1:i:233:GLN:OE1	1:i:236:LYS:HB3	2.09	0.53
1:j:145:THR:OG1	1:j:514:THR:OG1	2.27	0.53
1:r:233:GLN:OE1	1:r:236:LYS:HB3	2.09	0.53
1:w:77:ILE:HG12	1:w:106:VAL:HB	1.91	0.53
1:y:356:PHE:HB2	1:y:405:THR:HG22	1.91	0.53
1:z:233:GLN:OE1	1:z:236:LYS:HB3	2.09	0.53
1:7:298:ALA:HA	1:0:551:ILE:HD11	1.90	0.53
1:0:450:PRO:HB2	1:0:451:TRP:CD2	2.44	0.53
1:A:386:ASP:CG	1:A:387:ASP:OD1	2.52	0.53
1:C:117:SER:HB2	1:C:191:ASN:HD21	1.73	0.53
1:D:386:ASP:CG	1:D:387:ASP:OD1	2.52	0.53
1:J:298:ALA:HA	1:K:551:ILE:HD11	1.90	0.53
1:O:450:PRO:HB2	1:O:451:TRP:CD2	2.44	0.53
1:P:386:ASP:CG	1:P:387:ASP:OD1	2.52	0.53
1:Q:233:GLN:OE1	1:Q:236:LYS:HB3	2.09	0.53
1:Q:386:ASP:CG	1:Q:387:ASP:OD1	2.52	0.53
1:T:233:GLN:OE1	1:T:236:LYS:HB3	2.09	0.53
1:U:233:GLN:OE1	1:U:236:LYS:HB3	2.09	0.53
1:U:450:PRO:HB2	1:U:451:TRP:CD2	2.44	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:W:77:ILE:HG12	1:W:106:VAL:HB	1.91	0.53
1:Z:327:VAL:HG13	1:x:192:MET:SD	2.49	0.53
1:Z:386:ASP:CG	1:Z:387:ASP:OD1	2.52	0.53
1:4:141:HIS:NE2	1:4:518:ILE:HD12	2.24	0.53
1:4:406:ASN:CB	1:f:342:HIS:HE1	2.22	0.53
1:5:551:ILE:HD11	1:6:298:ALA:HA	1.90	0.53
1:f:117:SER:HB2	1:f:191:ASN:HD21	1.73	0.53
1:g:356:PHE:HB2	1:g:405:THR:HG22	1.91	0.53
1:h:468:SER:OG	1:h:471:ALA:O	2.22	0.53
1:i:77:ILE:HG12	1:i:106:VAL:HB	1.91	0.53
1:i:450:PRO:HB2	1:i:451:TRP:CD2	2.44	0.53
1:k:406:ASN:CB	1:l:342:HIS:HE1	2.21	0.53
1:k:450:PRO:HB2	1:k:451:TRP:CD2	2.44	0.53
1:l:356:PHE:HB2	1:l:405:THR:HG22	1.91	0.53
1:m:233:GLN:OE1	1:m:236:LYS:HB3	2.09	0.53
1:n:386:ASP:CG	1:n:387:ASP:OD1	2.52	0.53
1:o:298:ALA:HA	1:u:551:ILE:HD11	1.90	0.53
1:o:335:SER:H	1:o:435:THR:CG2	2.13	0.53
1:p:117:SER:HB2	1:p:191:ASN:HD21	1.73	0.53
1:q:386:ASP:CG	1:q:387:ASP:OD1	2.52	0.53
1:s:386:ASP:CG	1:s:387:ASP:OD1	2.52	0.53
1:t:450:PRO:HB2	1:t:451:TRP:CD2	2.44	0.53
1:v:117:SER:HB2	1:v:191:ASN:HD21	1.73	0.53
1:w:450:PRO:HB2	1:w:451:TRP:CD2	2.44	0.53
1:7:386:ASP:CG	1:7:387:ASP:OD1	2.52	0.53
1:B:342:HIS:HE1	1:L:406:ASN:CB	2.21	0.53
1:D:233:GLN:OE1	1:D:236:LYS:HB3	2.09	0.53
1:E:141:HIS:NE2	1:E:518:ILE:HD12	2.24	0.53
1:E:192:MET:SD	1:F:327:VAL:HG13	2.49	0.53
1:E:356:PHE:HB2	1:E:405:THR:HG22	1.91	0.53
1:H:342:HIS:HE1	1:Y:406:ASN:CB	2.21	0.53
1:H:406:ASN:CB	1:W:342:HIS:HE1	2.22	0.53
1:J:386:ASP:CG	1:J:387:ASP:OD1	2.52	0.53
1:K:141:HIS:NE2	1:K:518:ILE:HD12	2.24	0.53
1:N:406:ASN:CB	1:P:342:HIS:HE1	2.21	0.53
1:O:141:HIS:NE2	1:O:518:ILE:HD12	2.24	0.53
1:P:77:ILE:HG12	1:P:106:VAL:HB	1.91	0.53
1:T:386:ASP:CG	1:T:387:ASP:OD1	2.52	0.53
1:T:450:PRO:HB2	1:T:451:TRP:CD2	2.44	0.53
1:U:386:ASP:CG	1:U:387:ASP:OD1	2.52	0.53
1:V:342:HIS:HE1	1:X:406:ASN:CG	2.16	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:W:450:PRO:HB2	1:W:451:TRP:CD2	2.44	0.53
1:1:406:ASN:CG	1:0:342:HIS:HE1	2.16	0.53
1:2:386:ASP:CG	1:2:387:ASP:OD1	2.52	0.53
1:5:141:HIS:NE2	1:5:518:ILE:HD12	2.24	0.53
1:6:386:ASP:CG	1:6:387:ASP:OD1	2.52	0.53
1:c:386:ASP:CG	1:c:387:ASP:OD1	2.52	0.53
1:e:450:PRO:HB2	1:e:451:TRP:CD2	2.44	0.53
1:f:233:GLN:OE1	1:f:236:LYS:HB3	2.09	0.53
1:f:356:PHE:HB2	1:f:405:THR:HG22	1.91	0.53
1:g:318:SER:CB	1:h:393:GLN:HE22	2.22	0.53
1:g:406:ASN:CB	1:h:342:HIS:HE1	2.21	0.53
1:h:233:GLN:OE1	1:h:236:LYS:HB3	2.09	0.53
1:i:298:ALA:HA	1:z:551:ILE:HD11	1.91	0.53
1:j:141:HIS:NE2	1:j:518:ILE:HD12	2.24	0.53
1:k:77:ILE:HG12	1:k:106:VAL:HB	1.91	0.53
1:l:318:SER:CB	1:m:393:GLN:HE22	2.22	0.53
1:o:551:ILE:HD11	1:u:298:ALA:HA	1.90	0.53
1:p:141:HIS:NE2	1:p:518:ILE:HD12	2.24	0.53
1:p:356:PHE:HB2	1:p:405:THR:HG22	1.91	0.53
1:r:406:ASN:CB	1:s:342:HIS:HE1	2.21	0.53
1:s:77:ILE:HG12	1:s:106:VAL:HB	1.91	0.53
1:s:117:SER:HB2	1:s:191:ASN:HD21	1.73	0.53
1:t:145:THR:OG1	1:t:514:THR:OG1	2.27	0.53
1:u:117:SER:HB2	1:u:191:ASN:HD21	1.73	0.53
1:u:356:PHE:HB2	1:u:405:THR:HG22	1.91	0.53
1:u:386:ASP:CG	1:u:387:ASP:OD1	2.52	0.53
1:z:77:ILE:HG12	1:z:106:VAL:HB	1.91	0.53
1:z:406:ASN:CB	1:7:342:HIS:HE1	2.21	0.53
1:A:141:HIS:NE2	1:A:518:ILE:HD12	2.24	0.52
1:A:356:PHE:HB2	1:A:405:THR:HG22	1.91	0.52
1:B:77:ILE:HG12	1:B:106:VAL:HB	1.91	0.52
1:B:145:THR:OG1	1:B:514:THR:OG1	2.27	0.52
1:C:450:PRO:HB2	1:C:451:TRP:CD2	2.44	0.52
1:G:450:PRO:HB2	1:G:451:TRP:CD2	2.44	0.52
1:I:145:THR:OG1	1:I:514:THR:OG1	2.27	0.52
1:L:141:HIS:NE2	1:L:518:ILE:HD12	2.25	0.52
1:L:233:GLN:OE1	1:L:236:LYS:HB3	2.09	0.52
1:M:342:HIS:HE1	1:2:406:ASN:CG	2.17	0.52
1:O:77:ILE:HG12	1:O:106:VAL:HB	1.91	0.52
1:P:450:PRO:HB2	1:P:451:TRP:CD2	2.44	0.52
1:S:77:ILE:HG12	1:S:106:VAL:HB	1.91	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:S:145:THR:OG1	1:S:514:THR:OG1	2.27	0.52
1:Y:141:HIS:NE2	1:Y:518:ILE:HD12	2.25	0.52
1:Y:233:GLN:OE1	1:Y:236:LYS:HB3	2.09	0.52
1:Z:141:HIS:NE2	1:Z:518:ILE:HD12	2.25	0.52
1:Z:406:ASN:CB	1:x:342:HIS:HE1	2.21	0.52
1:2:145:THR:OG1	1:2:514:THR:OG1	2.27	0.52
1:3:356:PHE:HB2	1:3:405:THR:HG22	1.91	0.52
1:5:145:THR:OG1	1:5:514:THR:OG1	2.27	0.52
1:a:145:THR:OG1	1:a:514:THR:OG1	2.27	0.52
1:a:342:HIS:HE1	1:b:406:ASN:CB	2.21	0.52
1:c:406:ASN:CB	1:d:342:HIS:HE1	2.21	0.52
1:d:77:ILE:HG12	1:d:106:VAL:HB	1.91	0.52
1:h:141:HIS:NE2	1:h:518:ILE:HD12	2.24	0.52
1:i:386:ASP:CG	1:i:387:ASP:OD1	2.52	0.52
1:k:141:HIS:NE2	1:k:518:ILE:HD12	2.25	0.52
1:o:450:PRO:HB2	1:o:451:TRP:CD2	2.44	0.52
1:s:450:PRO:HB2	1:s:451:TRP:CD2	2.44	0.52
1:t:406:ASN:CG	1:u:342:HIS:HE1	2.16	0.52
1:t:406:ASN:CB	1:u:342:HIS:HE1	2.21	0.52
1:u:141:HIS:NE2	1:u:518:ILE:HD12	2.24	0.52
1:u:468:SER:OG	1:u:471:ALA:O	2.21	0.52
1:v:450:PRO:HB2	1:v:451:TRP:CD2	2.44	0.52
1:y:386:ASP:CG	1:y:387:ASP:OD1	2.52	0.52
1:D:356:PHE:HB2	1:D:405:THR:HG22	1.91	0.52
1:G:327:VAL:HG13	1:I:192:MET:SD	2.50	0.52
1:H:393:GLN:HE22	1:Y:318:SER:CB	2.22	0.52
1:J:117:SER:HB2	1:J:191:ASN:HD21	1.73	0.52
1:K:145:THR:OG1	1:K:514:THR:OG1	2.27	0.52
1:M:77:ILE:HG12	1:M:106:VAL:HB	1.91	0.52
1:O:386:ASP:CG	1:O:387:ASP:OD1	2.52	0.52
1:R:145:THR:OG1	1:R:514:THR:OG1	2.27	0.52
1:Y:145:THR:OG1	1:Y:514:THR:OG1	2.27	0.52
1:Z:233:GLN:OE1	1:Z:236:LYS:HB3	2.09	0.52
1:Z:318:SER:CB	1:x:393:GLN:HE22	2.22	0.52
1:1:141:HIS:NE2	1:1:518:ILE:HD12	2.24	0.52
1:3:141:HIS:NE2	1:3:518:ILE:HD12	2.24	0.52
1:a:77:ILE:HG12	1:a:106:VAL:HB	1.91	0.52
1:b:141:HIS:NE2	1:b:518:ILE:HD12	2.24	0.52
1:b:145:THR:OG1	1:b:514:THR:OG1	2.27	0.52
1:c:145:THR:OG1	1:c:514:THR:OG1	2.27	0.52
1:f:141:HIS:NE2	1:f:518:ILE:HD12	2.24	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:h:77:ILE:HG12	1:h:106:VAL:HB	1.91	0.52
1:h:356:PHE:HB2	1:h:405:THR:HG22	1.91	0.52
1:j:233:GLN:OE1	1:j:236:LYS:HB3	2.09	0.52
1:l:406:ASN:CB	1:m:342:HIS:HE1	2.21	0.52
1:m:141:HIS:NE2	1:m:518:ILE:HD12	2.24	0.52
1:m:386:ASP:CG	1:m:387:ASP:OD1	2.52	0.52
1:m:468:SER:OG	1:m:471:ALA:O	2.22	0.52
1:s:468:SER:OG	1:s:471:ALA:O	2.22	0.52
1:t:192:MET:SD	1:v:327:VAL:HG13	2.50	0.52
1:u:450:PRO:HB2	1:u:451:TRP:CD2	2.44	0.52
1:w:342:HIS:HE1	1:x:406:ASN:CB	2.22	0.52
1:y:145:THR:OG1	1:y:514:THR:OG1	2.27	0.52
1:z:145:THR:OG1	1:z:514:THR:OG1	2.27	0.52
1:z:386:ASP:CG	1:z:387:ASP:OD1	2.52	0.52
1:0:77:ILE:HG12	1:0:106:VAL:HB	1.91	0.52
1:0:233:GLN:OE1	1:0:236:LYS:HB3	2.09	0.52
1:A:406:ASN:CB	1:G:342:HIS:HE1	2.22	0.52
1:A:450:PRO:HB2	1:A:451:TRP:CD2	2.44	0.52
1:A:547:LEU:HD21	1:F:530:ASN:ND2	2.25	0.52
1:B:117:SER:HB2	1:B:191:ASN:HD21	1.73	0.52
1:B:551:ILE:HD11	1:I:298:ALA:HA	1.90	0.52
1:G:407:TRP:CE3	1:G:410:LYS:HE2	2.45	0.52
1:L:468:SER:OG	1:L:471:ALA:O	2.21	0.52
1:M:141:HIS:NE2	1:M:518:ILE:HD12	2.25	0.52
1:M:342:HIS:HE1	1:2:406:ASN:CB	2.22	0.52
1:N:335:SER:H	1:N:435:THR:CG2	2.13	0.52
1:O:342:HIS:HE1	1:h:406:ASN:CG	2.16	0.52
1:R:386:ASP:CG	1:R:387:ASP:OD1	2.52	0.52
1:U:145:THR:OG1	1:U:514:THR:OG1	2.27	0.52
1:V:77:ILE:HG12	1:V:106:VAL:HB	1.91	0.52
1:V:233:GLN:OE1	1:V:236:LYS:HB3	2.09	0.52
1:V:386:ASP:CG	1:V:387:ASP:OD1	2.52	0.52
1:X:141:HIS:NE2	1:X:518:ILE:HD12	2.25	0.52
1:Z:145:THR:OG1	1:Z:514:THR:OG1	2.27	0.52
1:2:77:ILE:HG12	1:2:106:VAL:HB	1.91	0.52
1:2:356:PHE:HB2	1:2:405:THR:HG22	1.90	0.52
1:4:233:GLN:OE1	1:4:236:LYS:HB3	2.09	0.52
1:5:117:SER:HB2	1:5:191:ASN:HD21	1.73	0.52
1:b:233:GLN:OE1	1:b:236:LYS:HB3	2.09	0.52
1:c:77:ILE:HG12	1:c:106:VAL:HB	1.91	0.52
1:c:406:ASN:CG	1:d:342:HIS:HE1	2.16	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:g:327:VAL:HG13	1:h:192:MET:SD	2.49	0.52
1:h:34:GLY:HA2	1:l:37:HIS:CE1	2.45	0.52
1:h:407:TRP:CE3	1:h:410:LYS:HE2	2.45	0.52
1:j:117:SER:HB2	1:j:191:ASN:HD21	1.73	0.52
1:k:327:VAL:HG13	1:l:192:MET:SD	2.50	0.52
1:k:342:HIS:HE1	1:m:406:ASN:CG	2.16	0.52
1:k:386:ASP:CG	1:k:387:ASP:OD1	2.52	0.52
1:k:407:TRP:CE3	1:k:410:LYS:HE2	2.45	0.52
1:l:141:HIS:NE2	1:l:518:ILE:HD12	2.25	0.52
1:l:327:VAL:HG13	1:m:192:MET:SD	2.49	0.52
1:m:77:ILE:HG12	1:m:106:VAL:HB	1.91	0.52
1:m:407:TRP:CE3	1:m:410:LYS:HE2	2.45	0.52
1:q:233:GLN:OE1	1:q:236:LYS:HB3	2.09	0.52
1:q:356:PHE:HB2	1:q:405:THR:HG22	1.91	0.52
1:7:145:THR:OG1	1:7:514:THR:OG1	2.27	0.52
1:F:145:THR:OG1	1:F:514:THR:OG1	2.27	0.52
1:F:356:PHE:HB2	1:F:405:THR:HG22	1.91	0.52
1:F:450:PRO:HB2	1:F:451:TRP:CD2	2.44	0.52
1:G:298:ALA:HA	1:H:551:ILE:HD11	1.90	0.52
1:I:141:HIS:NE2	1:I:518:ILE:HD12	2.24	0.52
1:J:141:HIS:NE2	1:J:518:ILE:HD12	2.25	0.52
1:K:117:SER:HB2	1:K:191:ASN:HD21	1.73	0.52
1:L:145:THR:OG1	1:L:514:THR:OG1	2.27	0.52
1:M:407:TRP:CE3	1:M:410:LYS:HE2	2.45	0.52
1:N:145:THR:OG1	1:N:514:THR:OG1	2.27	0.52
1:N:406:ASN:CG	1:P:342:HIS:HE1	2.16	0.52
1:O:327:VAL:HG13	1:g:192:MET:SD	2.50	0.52
1:O:407:TRP:CE3	1:O:410:LYS:HE2	2.45	0.52
1:R:77:ILE:HG12	1:R:106:VAL:HB	1.91	0.52
1:S:386:ASP:CG	1:S:387:ASP:OD1	2.52	0.52
1:U:356:PHE:HB2	1:U:405:THR:HG22	1.91	0.52
1:U:407:TRP:CE3	1:U:410:LYS:HE2	2.45	0.52
1:3:145:THR:OG1	1:3:514:THR:OG1	2.27	0.52
1:6:117:SER:HB2	1:6:191:ASN:HD21	1.73	0.52
1:b:468:SER:OG	1:b:471:ALA:O	2.21	0.52
1:c:356:PHE:HB2	1:c:405:THR:HG22	1.91	0.52
1:d:141:HIS:NE2	1:d:518:ILE:HD12	2.25	0.52
1:f:145:THR:OG1	1:f:514:THR:OG1	2.27	0.52
1:g:37:HIS:CE1	1:m:34:GLY:HA2	2.45	0.52
1:g:141:HIS:NE2	1:g:518:ILE:HD12	2.25	0.52
1:h:386:ASP:CG	1:h:387:ASP:OD1	2.52	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:j:450:PRO:HB2	1:j:451:TRP:CD2	2.44	0.52
1:m:356:PHE:HB2	1:m:405:THR:HG22	1.91	0.52
1:o:356:PHE:HB2	1:o:405:THR:HG22	1.91	0.52
1:t:141:HIS:NE2	1:t:518:ILE:HD12	2.24	0.52
1:t:407:TRP:CE3	1:t:410:LYS:HE2	2.45	0.52
1:v:77:ILE:HG12	1:v:106:VAL:HB	1.91	0.52
1:v:298:ALA:HA	1:x:551:ILE:HD11	1.90	0.52
1:v:407:TRP:CE3	1:v:410:LYS:HE2	2.45	0.52
1:y:77:ILE:HG12	1:y:106:VAL:HB	1.91	0.52
1:0:386:ASP:CG	1:0:387:ASP:OD1	2.52	0.52
1:B:356:PHE:HB2	1:B:405:THR:HG22	1.91	0.52
1:F:386:ASP:CG	1:F:387:ASP:OD1	2.52	0.52
1:G:77:ILE:HG12	1:G:106:VAL:HB	1.91	0.52
1:I:407:TRP:CE3	1:I:410:LYS:HE2	2.45	0.52
1:K:342:HIS:HE1	1:0:406:ASN:CB	2.21	0.52
1:N:407:TRP:CE3	1:N:410:LYS:HE2	2.45	0.52
1:V:406:ASN:CB	1:5:342:HIS:HE1	2.21	0.52
1:4:117:SER:HB2	1:4:191:ASN:HD21	1.73	0.52
1:4:450:PRO:HB2	1:4:451:TRP:CD2	2.44	0.52
1:6:141:HIS:NE2	1:6:518:ILE:HD12	2.25	0.52
1:a:117:SER:HB2	1:a:191:ASN:HD21	1.73	0.52
1:a:356:PHE:HB2	1:a:405:THR:HG22	1.91	0.52
1:a:551:ILE:HD11	1:t:298:ALA:HA	1.90	0.52
1:d:407:TRP:CE3	1:d:410:LYS:HE2	2.45	0.52
1:g:407:TRP:CE3	1:g:410:LYS:HE2	2.45	0.52
1:k:145:THR:OG1	1:k:514:THR:OG1	2.27	0.52
1:l:407:TRP:CE3	1:l:410:LYS:HE2	2.45	0.52
1:n:407:TRP:CE3	1:n:410:LYS:HE2	2.45	0.52
1:o:145:THR:OG1	1:o:514:THR:OG1	2.27	0.52
1:o:386:ASP:CG	1:o:387:ASP:OD1	2.52	0.52
1:p:145:THR:OG1	1:p:514:THR:OG1	2.27	0.52
1:r:145:THR:OG1	1:r:514:THR:OG1	2.27	0.52
1:w:145:THR:OG1	1:w:514:THR:OG1	2.27	0.52
1:w:407:TRP:CE3	1:w:410:LYS:HE2	2.45	0.52
1:7:356:PHE:HB2	1:7:405:THR:HG22	1.91	0.52
1:7:407:TRP:CE3	1:7:410:LYS:HE2	2.45	0.52
1:E:145:THR:OG1	1:E:514:THR:OG1	2.27	0.52
1:E:450:PRO:HB2	1:E:451:TRP:CD2	2.44	0.52
1:G:335:SER:H	1:G:435:THR:CG2	2.13	0.52
1:H:34:GLY:HA2	1:Z:37:HIS:CE1	2.45	0.52
1:I:386:ASP:CG	1:I:387:ASP:OD1	2.52	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:386:ASP:CG	1:L:387:ASP:OD1	2.52	0.52
1:P:141:HIS:NE2	1:P:518:ILE:HD12	2.25	0.52
1:Q:407:TRP:CE3	1:Q:410:LYS:HE2	2.45	0.52
1:U:77:ILE:HG12	1:U:106:VAL:HB	1.91	0.52
1:W:145:THR:OG1	1:W:514:THR:OG1	2.27	0.52
1:W:407:TRP:CE3	1:W:410:LYS:HE2	2.45	0.52
1:X:386:ASP:CG	1:X:387:ASP:OD1	2.52	0.52
1:1:386:ASP:CG	1:1:387:ASP:OD1	2.52	0.52
1:6:356:PHE:HB2	1:6:405:THR:HG22	1.91	0.52
1:b:386:ASP:CG	1:b:387:ASP:OD1	2.52	0.52
1:c:141:HIS:NE2	1:c:518:ILE:HD12	2.24	0.52
1:c:192:MET:SD	1:e:327:VAL:HG13	2.50	0.52
1:g:145:THR:OG1	1:g:514:THR:OG1	2.27	0.52
1:g:386:ASP:CG	1:g:387:ASP:OD1	2.52	0.52
1:k:342:HIS:HE1	1:m:406:ASN:CB	2.22	0.52
1:l:145:THR:OG1	1:l:514:THR:OG1	2.27	0.52
1:l:386:ASP:CG	1:l:387:ASP:OD1	2.52	0.52
1:n:192:MET:SD	1:p:327:VAL:HG13	2.50	0.52
1:p:450:PRO:HB2	1:p:451:TRP:CD2	2.44	0.52
1:r:335:SER:H	1:r:435:THR:CG2	2.13	0.52
1:r:407:TRP:CE3	1:r:410:LYS:HE2	2.45	0.52
1:t:386:ASP:CG	1:t:387:ASP:OD1	2.52	0.52
1:u:233:GLN:OE1	1:u:236:LYS:HB3	2.09	0.52
1:B:141:HIS:NE2	1:B:518:ILE:HD12	2.24	0.52
1:C:141:HIS:NE2	1:C:518:ILE:HD12	2.24	0.52
1:C:327:VAL:HG13	1:2:192:MET:SD	2.50	0.52
1:C:407:TRP:CE3	1:C:410:LYS:HE2	2.45	0.52
1:E:386:ASP:CG	1:E:387:ASP:OD1	2.52	0.52
1:K:386:ASP:CG	1:K:387:ASP:OD1	2.52	0.52
1:L:407:TRP:CE3	1:L:410:LYS:HE2	2.45	0.52
1:M:233:GLN:OE1	1:M:236:LYS:HB3	2.09	0.52
1:O:34:GLY:HA2	1:4:37:HIS:CE1	2.45	0.52
1:O:145:THR:OG1	1:O:514:THR:OG1	2.27	0.52
1:O:342:HIS:HE1	1:h:406:ASN:CB	2.22	0.52
1:R:141:HIS:NE2	1:R:518:ILE:HD12	2.24	0.52
1:S:141:HIS:NE2	1:S:518:ILE:HD12	2.24	0.52
1:Y:37:HIS:CE1	1:x:34:GLY:HA2	2.45	0.52
1:Z:77:ILE:HG12	1:Z:106:VAL:HB	1.91	0.52
1:2:141:HIS:NE2	1:2:518:ILE:HD12	2.25	0.52
1:2:407:TRP:CE3	1:2:410:LYS:HE2	2.45	0.52
1:3:192:MET:SD	1:j:327:VAL:HG13	2.50	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:3:386:ASP:CG	1:3:387:ASP:OD1	2.52	0.52
1:4:327:VAL:HG13	1:f:192:MET:SD	2.50	0.52
1:5:77:ILE:HG12	1:5:106:VAL:HB	1.91	0.52
1:6:233:GLN:OE1	1:6:236:LYS:HB3	2.09	0.52
1:b:407:TRP:CE3	1:b:410:LYS:HE2	2.45	0.52
1:d:233:GLN:OE1	1:d:236:LYS:HB3	2.09	0.52
1:d:386:ASP:CG	1:d:387:ASP:OD1	2.52	0.52
1:f:386:ASP:CG	1:f:387:ASP:OD1	2.52	0.52
1:j:37:HIS:CE1	1:k:34:GLY:HA2	2.45	0.52
1:o:406:ASN:CG	1:p:342:HIS:HE1	2.16	0.52
1:z:141:HIS:NE2	1:z:518:ILE:HD12	2.24	0.52
1:7:210:TYR:HE1	1:7:482:GLN:HE21	1.58	0.52
1:0:407:TRP:CE3	1:0:410:LYS:HE2	2.45	0.52
1:A:233:GLN:OE1	1:A:236:LYS:HB3	2.09	0.52
1:A:335:SER:H	1:A:435:THR:CG2	2.13	0.52
1:C:192:MET:SD	1:M:327:VAL:HG13	2.50	0.52
1:E:551:ILE:HD11	1:P:298:ALA:HA	1.90	0.52
1:F:77:ILE:HG12	1:F:106:VAL:HB	1.91	0.52
1:G:210:TYR:HE1	1:G:482:GLN:HE21	1.58	0.52
1:G:356:PHE:HB2	1:G:405:THR:HG22	1.91	0.52
1:G:386:ASP:CG	1:G:387:ASP:OD1	2.52	0.52
1:J:233:GLN:OE1	1:J:236:LYS:HB3	2.09	0.52
1:J:356:PHE:HB2	1:J:405:THR:HG22	1.91	0.52
1:K:77:ILE:HG12	1:K:106:VAL:HB	1.91	0.52
1:N:77:ILE:HG12	1:N:106:VAL:HB	1.91	0.52
1:T:468:SER:OG	1:T:471:ALA:O	2.22	0.52
1:U:210:TYR:HE1	1:U:482:GLN:HE21	1.58	0.52
1:V:407:TRP:CE3	1:V:410:LYS:HE2	2.45	0.52
1:Y:407:TRP:CE3	1:Y:410:LYS:HE2	2.45	0.52
1:Z:407:TRP:CE3	1:Z:410:LYS:HE2	2.45	0.52
1:5:335:SER:H	1:5:435:THR:CG2	2.13	0.52
1:5:386:ASP:CG	1:5:387:ASP:OD1	2.52	0.52
1:a:141:HIS:NE2	1:a:518:ILE:HD12	2.24	0.52
1:c:407:TRP:CE3	1:c:410:LYS:HE2	2.45	0.52
1:d:327:VAL:HG13	1:e:192:MET:SD	2.50	0.52
1:d:450:PRO:HB2	1:d:451:TRP:CD2	2.44	0.52
1:i:141:HIS:NE2	1:i:518:ILE:HD12	2.24	0.52
1:p:386:ASP:CG	1:p:387:ASP:OD1	2.52	0.52
1:r:386:ASP:CG	1:r:387:ASP:OD1	2.52	0.52
1:s:141:HIS:NE2	1:s:518:ILE:HD12	2.25	0.52
1:u:327:VAL:HG13	1:v:192:MET:SD	2.50	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:v:210:TYR:HE1	1:v:482:GLN:HE21	1.58	0.52
1:v:356:PHE:HB2	1:v:405:THR:HG22	1.91	0.52
1:y:407:TRP:CE3	1:y:410:LYS:HE2	2.45	0.52
1:7:77:ILE:HG12	1:7:106:VAL:HB	1.91	0.52
1:A:327:VAL:HG13	1:G:192:MET:SD	2.50	0.52
1:A:407:TRP:CE3	1:A:410:LYS:HE2	2.45	0.52
1:E:393:GLN:HE22	1:F:318:SER:CB	2.23	0.52
1:F:407:TRP:CE3	1:F:410:LYS:HE2	2.45	0.52
1:H:145:THR:OG1	1:H:514:THR:OG1	2.27	0.52
1:K:407:TRP:CE3	1:K:410:LYS:HE2	2.45	0.52
1:M:386:ASP:CG	1:M:387:ASP:OD1	2.52	0.52
1:M:450:PRO:HB2	1:M:451:TRP:CD2	2.44	0.52
1:O:318:SER:CB	1:g:393:GLN:HE22	2.23	0.52
1:O:359:ALA:HA	1:O:362:SER:HB2	1.92	0.52
1:Q:356:PHE:HB2	1:Q:405:THR:HG22	1.91	0.52
1:R:359:ALA:HA	1:R:362:SER:HB2	1.92	0.52
1:T:141:HIS:NE2	1:T:518:ILE:HD12	2.24	0.52
1:X:359:ALA:HA	1:X:362:SER:HB2	1.92	0.52
1:X:407:TRP:CE3	1:X:410:LYS:HE2	2.45	0.52
1:Y:77:ILE:HG12	1:Y:106:VAL:HB	1.91	0.52
1:Y:210:TYR:HE1	1:Y:482:GLN:HE21	1.58	0.52
1:c:210:TYR:HE1	1:c:482:GLN:HE21	1.58	0.52
1:j:359:ALA:HA	1:j:362:SER:HB2	1.92	0.52
1:j:386:ASP:CG	1:j:387:ASP:OD1	2.52	0.52
1:k:318:SER:CB	1:l:393:GLN:HE22	2.23	0.52
1:n:356:PHE:HB2	1:n:405:THR:HG22	1.91	0.52
1:o:77:ILE:HG12	1:o:106:VAL:HB	1.91	0.52
1:o:407:TRP:CE3	1:o:410:LYS:HE2	2.45	0.52
1:p:551:ILE:HD11	1:s:298:ALA:HA	1.90	0.52
1:r:77:ILE:HG12	1:r:106:VAL:HB	1.91	0.52
1:r:406:ASN:CG	1:s:342:HIS:HE1	2.16	0.52
1:u:407:TRP:CE3	1:u:410:LYS:HE2	2.45	0.52
1:v:37:HIS:CE1	1:w:34:GLY:HA2	2.45	0.52
1:v:386:ASP:CG	1:v:387:ASP:OD1	2.52	0.52
1:w:141:HIS:NE2	1:w:518:ILE:HD12	2.25	0.52
1:x:145:THR:OG1	1:x:514:THR:OG1	2.27	0.52
1:y:141:HIS:NE2	1:y:518:ILE:HD12	2.24	0.52
1:y:359:ALA:HA	1:y:362:SER:HB2	1.92	0.52
1:A:342:HIS:HE1	1:I:406:ASN:CB	2.22	0.52
1:B:407:TRP:CE3	1:B:410:LYS:HE2	2.45	0.52
1:D:318:SER:CB	1:N:393:GLN:HE22	2.23	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:407:TRP:CE3	1:D:410:LYS:HE2	2.45	0.52
1:F:359:ALA:HA	1:F:362:SER:HB2	1.92	0.52
1:G:37:HIS:CE1	1:W:34:GLY:HA2	2.45	0.52
1:H:77:ILE:HG12	1:H:106:VAL:HB	1.91	0.52
1:H:233:GLN:OE1	1:H:236:LYS:HB3	2.09	0.52
1:H:359:ALA:HA	1:H:362:SER:HB2	1.92	0.52
1:L:37:HIS:CE1	1:2:34:GLY:HA2	2.45	0.52
1:N:210:TYR:HE1	1:N:482:GLN:HE21	1.58	0.52
1:N:386:ASP:CG	1:N:387:ASP:OD1	2.52	0.52
1:N:530:ASN:ND2	1:O:547:LEU:HD21	2.25	0.52
1:O:468:SER:OG	1:O:471:ALA:O	2.22	0.52
1:Q:117:SER:HB2	1:Q:191:ASN:HD21	1.73	0.52
1:Q:141:HIS:NE2	1:Q:518:ILE:HD12	2.24	0.52
1:W:141:HIS:NE2	1:W:518:ILE:HD12	2.25	0.52
1:X:34:GLY:HA2	1:6:37:HIS:CE1	2.45	0.52
1:Z:210:TYR:HE1	1:Z:482:GLN:HE21	1.58	0.52
1:1:359:ALA:HA	1:1:362:SER:HB2	1.92	0.52
1:1:407:TRP:CE3	1:1:410:LYS:HE2	2.45	0.52
1:2:210:TYR:HE1	1:2:482:GLN:HE21	1.58	0.52
1:4:359:ALA:HA	1:4:362:SER:HB2	1.92	0.52
1:5:407:TRP:CE3	1:5:410:LYS:HE2	2.45	0.52
1:a:407:TRP:CE3	1:a:410:LYS:HE2	2.45	0.52
1:e:141:HIS:NE2	1:e:518:ILE:HD12	2.24	0.52
1:e:386:ASP:CG	1:e:387:ASP:OD1	2.52	0.52
1:e:407:TRP:CE3	1:e:410:LYS:HE2	2.45	0.52
1:k:359:ALA:HA	1:k:362:SER:HB2	1.92	0.52
1:k:387:ASP:OD1	1:k:387:ASP:N	2.43	0.52
1:n:141:HIS:NE2	1:n:518:ILE:HD12	2.24	0.52
1:o:327:VAL:HG13	1:p:192:MET:SD	2.50	0.52
1:o:359:ALA:HA	1:o:362:SER:HB2	1.92	0.52
1:p:407:TRP:CE3	1:p:410:LYS:HE2	2.45	0.52
1:q:210:TYR:HE1	1:q:482:GLN:HE21	1.58	0.52
1:q:318:SER:CB	1:r:393:GLN:HE22	2.24	0.52
1:q:359:ALA:HA	1:q:362:SER:HB2	1.92	0.52
1:v:335:SER:H	1:v:435:THR:CG2	2.13	0.52
1:x:359:ALA:HA	1:x:362:SER:HB2	1.92	0.52
1:y:327:VAL:HG13	1:z:192:MET:SD	2.50	0.52
1:B:233:GLN:OE1	1:B:236:LYS:HB3	2.09	0.51
1:B:359:ALA:HA	1:B:362:SER:HB2	1.92	0.51
1:C:77:ILE:HG12	1:C:106:VAL:HB	1.91	0.51
1:C:145:THR:OG1	1:C:514:THR:OG1	2.27	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:386:ASP:CG	1:C:387:ASP:OD1	2.52	0.51
1:D:210:TYR:HE1	1:D:482:GLN:HE21	1.58	0.51
1:D:359:ALA:HA	1:D:362:SER:HB2	1.93	0.51
1:D:547:LEU:HD21	1:M:530:ASN:ND2	2.25	0.51
1:E:75:TYR:OH	1:E:249:GLU:OE1	2.27	0.51
1:E:407:TRP:CE3	1:E:410:LYS:HE2	2.45	0.51
1:H:327:VAL:HG13	1:W:192:MET:SD	2.50	0.51
1:M:287:THR:CG2	1:M:569:MET:SD	2.99	0.51
1:M:387:ASP:OD1	1:M:387:ASP:N	2.43	0.51
1:O:287:THR:CG2	1:O:569:MET:SD	2.99	0.51
1:O:387:ASP:OD1	1:O:387:ASP:N	2.43	0.51
1:Q:217:TRP:CE2	1:Q:239:ARG:CD	2.90	0.51
1:R:192:MET:SD	1:U:327:VAL:HG13	2.50	0.51
1:R:407:TRP:CE3	1:R:410:LYS:HE2	2.45	0.51
1:S:407:TRP:CE3	1:S:410:LYS:HE2	2.45	0.51
1:U:141:HIS:NE2	1:U:518:ILE:HD12	2.25	0.51
1:W:287:THR:CG2	1:W:569:MET:SD	2.99	0.51
1:4:287:THR:CG2	1:4:569:MET:SD	2.99	0.51
1:d:387:ASP:OD1	1:d:387:ASP:N	2.43	0.51
1:d:530:ASN:ND2	1:q:547:LEU:HD21	2.26	0.51
1:e:77:ILE:HG12	1:e:106:VAL:HB	1.91	0.51
1:i:75:TYR:OH	1:i:249:GLU:OE1	2.27	0.51
1:i:468:SER:OG	1:i:471:ALA:O	2.21	0.51
1:j:287:THR:CG2	1:j:569:MET:SD	2.99	0.51
1:k:547:LEU:HD21	1:r:530:ASN:ND2	2.25	0.51
1:q:387:ASP:OD1	1:q:387:ASP:N	2.43	0.51
1:q:407:TRP:CE3	1:q:410:LYS:HE2	2.45	0.51
1:w:192:MET:SD	1:x:327:VAL:HG13	2.50	0.51
1:w:287:THR:CG2	1:w:569:MET:SD	2.99	0.51
1:w:386:ASP:CG	1:w:387:ASP:OD1	2.52	0.51
1:z:407:TRP:CE3	1:z:410:LYS:HE2	2.45	0.51
1:B:210:TYR:HE1	1:B:482:GLN:HE21	1.58	0.51
1:B:287:THR:CG2	1:B:569:MET:SD	2.99	0.51
1:B:386:ASP:CG	1:B:387:ASP:OD1	2.52	0.51
1:D:339:TRP:CE3	1:D:350:ILE:HD11	2.46	0.51
1:D:387:ASP:OD1	1:D:387:ASP:N	2.43	0.51
1:E:404:GLN:NE2	1:E:443:ASP:H	2.09	0.51
1:F:141:HIS:NE2	1:F:518:ILE:HD12	2.25	0.51
1:G:318:SER:CB	1:I:393:GLN:HE22	2.23	0.51
1:I:77:ILE:HG12	1:I:106:VAL:HB	1.91	0.51
1:J:37:HIS:CE1	1:1:34:GLY:HA2	2.45	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:145:THR:OG1	1:J:514:THR:OG1	2.27	0.51
1:K:327:VAL:HG13	1:1:192:MET:SD	2.50	0.51
1:K:335:SER:H	1:K:435:THR:CG2	2.13	0.51
1:L:77:ILE:HG12	1:L:106:VAL:HB	1.91	0.51
1:N:141:HIS:NE2	1:N:518:ILE:HD12	2.24	0.51
1:Q:77:ILE:HG12	1:Q:106:VAL:HB	1.91	0.51
1:R:327:VAL:HG13	1:S:192:MET:SD	2.50	0.51
1:S:318:SER:CB	1:U:393:GLN:HE22	2.24	0.51
1:T:37:HIS:CE1	1:U:34:GLY:HA2	2.46	0.51
1:T:75:TYR:OH	1:T:249:GLU:OE1	2.27	0.51
1:T:339:TRP:CE3	1:T:350:ILE:HD11	2.46	0.51
1:V:145:THR:OG1	1:V:514:THR:OG1	2.27	0.51
1:V:287:THR:CG2	1:V:569:MET:SD	2.99	0.51
1:W:386:ASP:CG	1:W:387:ASP:OD1	2.52	0.51
1:W:551:ILE:HD11	1:X:298:ALA:HA	1.91	0.51
1:X:145:THR:OG1	1:X:514:THR:OG1	2.27	0.51
1:1:82:ARG:HG2	1:1:86:PHE:CG	2.46	0.51
1:1:298:ALA:HA	1:w:551:ILE:HD11	1.91	0.51
1:2:387:ASP:OD1	1:2:387:ASP:N	2.43	0.51
1:2:547:LEU:HD21	1:3:530:ASN:ND2	2.26	0.51
1:3:407:TRP:CE3	1:3:410:LYS:HE2	2.45	0.51
1:5:404:GLN:NE2	1:5:443:ASP:H	2.09	0.51
1:a:233:GLN:OE1	1:a:236:LYS:HB3	2.09	0.51
1:a:287:THR:CG2	1:a:569:MET:SD	2.99	0.51
1:a:359:ALA:HA	1:a:362:SER:HB2	1.92	0.51
1:a:547:LEU:HD21	1:t:530:ASN:ND2	2.26	0.51
1:b:37:HIS:CE1	1:c:34:GLY:HA2	2.45	0.51
1:b:77:ILE:HG12	1:b:106:VAL:HB	1.91	0.51
1:c:342:HIS:HE1	1:e:406:ASN:CG	2.17	0.51
1:c:387:ASP:OD1	1:c:387:ASP:N	2.43	0.51
1:d:287:THR:CG2	1:d:569:MET:SD	2.99	0.51
1:d:318:SER:CB	1:e:393:GLN:HE22	2.24	0.51
1:g:339:TRP:CE3	1:g:350:ILE:HD11	2.46	0.51
1:i:37:HIS:CE1	1:7:34:GLY:HA2	2.46	0.51
1:i:339:TRP:CE3	1:i:350:ILE:HD11	2.46	0.51
1:j:356:PHE:HB2	1:j:405:THR:HG22	1.91	0.51
1:k:287:THR:CG2	1:k:569:MET:SD	2.99	0.51
1:l:339:TRP:CE3	1:l:350:ILE:HD11	2.46	0.51
1:n:117:SER:HB2	1:n:191:ASN:HD21	1.73	0.51
1:n:217:TRP:CE2	1:n:239:ARG:CD	2.90	0.51
1:n:450:PRO:HB2	1:n:451:TRP:CD2	2.44	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:o:141:HIS:NE2	1:o:518:ILE:HD12	2.25	0.51
1:p:404:GLN:NE2	1:p:443:ASP:H	2.09	0.51
1:q:339:TRP:CE3	1:q:350:ILE:HD11	2.46	0.51
1:r:141:HIS:NE2	1:r:518:ILE:HD12	2.25	0.51
1:r:327:VAL:HG13	1:s:192:MET:SD	2.50	0.51
1:s:339:TRP:CE3	1:s:350:ILE:HD11	2.46	0.51
1:t:327:VAL:HG13	1:u:192:MET:SD	2.50	0.51
1:u:335:SER:H	1:u:435:THR:CG2	2.13	0.51
1:x:77:ILE:HG12	1:x:106:VAL:HB	1.91	0.51
1:x:233:GLN:OE1	1:x:236:LYS:HB3	2.09	0.51
1:x:407:TRP:CE3	1:x:410:LYS:HE2	2.45	0.51
1:y:192:MET:SD	1:7:327:VAL:HG13	2.50	0.51
1:z:210:TYR:HE1	1:z:482:GLN:HE21	1.58	0.51
1:0:145:THR:OG1	1:0:514:THR:OG1	2.27	0.51
1:0:287:THR:CG2	1:0:569:MET:SD	2.99	0.51
1:B:327:VAL:HG13	1:J:192:MET:SD	2.50	0.51
1:B:530:ASN:ND2	1:I:547:LEU:HD21	2.26	0.51
1:B:547:LEU:HD21	1:I:530:ASN:ND2	2.26	0.51
1:C:318:SER:CB	1:2:393:GLN:HE22	2.23	0.51
1:E:287:THR:CG2	1:E:569:MET:SD	2.99	0.51
1:G:141:HIS:NE2	1:G:518:ILE:HD12	2.24	0.51
1:G:547:LEU:HD21	1:H:530:ASN:ND2	2.26	0.51
1:H:356:PHE:HB2	1:H:405:THR:HG22	1.91	0.51
1:H:407:TRP:CE3	1:H:410:LYS:HE2	2.45	0.51
1:I:37:HIS:CE1	1:J:34:GLY:HA2	2.46	0.51
1:J:327:VAL:HG13	1:L:192:MET:SD	2.50	0.51
1:K:404:GLN:NE2	1:K:443:ASP:H	2.09	0.51
1:N:327:VAL:HG13	1:P:192:MET:SD	2.50	0.51
1:P:339:TRP:CE3	1:P:350:ILE:HD11	2.46	0.51
1:Q:82:ARG:HG2	1:Q:86:PHE:CG	2.46	0.51
1:Q:145:THR:OG1	1:Q:514:THR:OG1	2.27	0.51
1:R:210:TYR:HE1	1:R:482:GLN:HE21	1.58	0.51
1:R:319:ASP:HB3	1:R:320:PRO:HD3	1.93	0.51
1:S:82:ARG:HG2	1:S:86:PHE:CG	2.46	0.51
1:S:210:TYR:HE1	1:S:482:GLN:HE21	1.58	0.51
1:U:82:ARG:HG2	1:U:86:PHE:CG	2.46	0.51
1:U:339:TRP:CE3	1:U:350:ILE:HD11	2.46	0.51
1:W:359:ALA:HA	1:W:362:SER:HB2	1.92	0.51
1:X:82:ARG:HG2	1:X:86:PHE:CG	2.46	0.51
1:X:192:MET:SD	1:5:327:VAL:HG13	2.50	0.51
1:X:404:GLN:NE2	1:X:443:ASP:H	2.09	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Y:287:THR:CG2	1:Y:569:MET:SD	2.99	0.51
1:Y:387:ASP:OD1	1:Y:387:ASP:N	2.43	0.51
1:Z:287:THR:CG2	1:Z:569:MET:SD	2.99	0.51
1:Z:404:GLN:NE2	1:Z:443:ASP:H	2.09	0.51
1:1:404:GLN:NE2	1:1:443:ASP:H	2.09	0.51
1:4:356:PHE:HB2	1:4:405:THR:HG22	1.91	0.51
1:4:386:ASP:CG	1:4:387:ASP:OD1	2.52	0.51
1:5:287:THR:CG2	1:5:569:MET:SD	2.99	0.51
1:6:34:GLY:HA2	1:t:37:HIS:CE1	2.46	0.51
1:6:359:ALA:HA	1:6:362:SER:HB2	1.92	0.51
1:a:210:TYR:HE1	1:a:482:GLN:HE21	1.58	0.51
1:a:530:ASN:ND2	1:t:547:LEU:HD21	2.26	0.51
1:b:547:LEU:HD21	1:e:530:ASN:ND2	2.26	0.51
1:c:547:LEU:HD21	1:f:530:ASN:ND2	2.26	0.51
1:g:318:SER:HB2	1:h:393:GLN:NE2	2.26	0.51
1:i:356:PHE:HB2	1:i:405:THR:HG22	1.91	0.51
1:i:530:ASN:ND2	1:z:547:LEU:HD21	2.26	0.51
1:k:37:HIS:CE1	1:s:34:GLY:HA2	2.45	0.51
1:l:318:SER:HB2	1:m:393:GLN:NE2	2.26	0.51
1:m:339:TRP:CE3	1:m:350:ILE:HD11	2.46	0.51
1:n:82:ARG:HG2	1:n:86:PHE:CG	2.46	0.51
1:n:145:THR:OG1	1:n:514:THR:OG1	2.27	0.51
1:o:530:ASN:ND2	1:u:547:LEU:HD21	2.26	0.51
1:p:287:THR:CG2	1:p:569:MET:SD	2.99	0.51
1:q:141:HIS:NE2	1:q:518:ILE:HD12	2.24	0.51
1:r:210:TYR:HE1	1:r:482:GLN:HE21	1.58	0.51
1:t:318:SER:CB	1:u:393:GLN:HE22	2.24	0.51
1:t:393:GLN:HE22	1:v:318:SER:CB	2.23	0.51
1:v:547:LEU:HD21	1:x:530:ASN:ND2	2.26	0.51
1:w:359:ALA:HA	1:w:362:SER:HB2	1.92	0.51
1:y:210:TYR:HE1	1:y:482:GLN:HE21	1.58	0.51
1:z:82:ARG:HG2	1:z:86:PHE:CG	2.46	0.51
1:z:287:THR:CG2	1:z:569:MET:SD	2.99	0.51
1:7:82:ARG:HG2	1:7:86:PHE:CG	2.46	0.51
1:7:141:HIS:NE2	1:7:518:ILE:HD12	2.25	0.51
1:A:145:THR:OG1	1:A:514:THR:OG1	2.27	0.51
1:A:404:GLN:NE2	1:A:443:ASP:H	2.09	0.51
1:B:34:GLY:HA2	1:C:37:HIS:CE1	2.45	0.51
1:B:331:HIS:CE1	1:J:342:HIS:HD2	2.29	0.51
1:B:339:TRP:CE3	1:B:350:ILE:HD11	2.46	0.51
1:C:210:TYR:HE1	1:C:482:GLN:HE21	1.58	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:393:GLN:HE22	1:M:318:SER:CB	2.24	0.51
1:C:530:ASN:ND2	1:L:547:LEU:HD21	2.26	0.51
1:D:192:MET:SD	1:P:327:VAL:HG13	2.50	0.51
1:D:342:HIS:HD2	1:P:331:HIS:CE1	2.29	0.51
1:E:82:ARG:HG2	1:E:86:PHE:CG	2.46	0.51
1:E:342:HIS:CE1	1:F:406:ASN:CB	2.94	0.51
1:F:193:TYR:HA	1:Q:311:GLY:HA3	1.91	0.51
1:G:404:GLN:NE2	1:G:443:ASP:H	2.09	0.51
1:J:359:ALA:HA	1:J:362:SER:HB2	1.92	0.51
1:J:404:GLN:NE2	1:J:443:ASP:H	2.09	0.51
1:K:82:ARG:HG2	1:K:86:PHE:CG	2.46	0.51
1:K:287:THR:CG2	1:K:569:MET:SD	2.99	0.51
1:M:145:THR:OG1	1:M:514:THR:OG1	2.27	0.51
1:M:192:MET:SD	1:2:327:VAL:HG13	2.50	0.51
1:O:37:HIS:CE1	1:P:34:GLY:HA2	2.45	0.51
1:P:37:HIS:HE1	1:Q:34:GLY:HA2	1.76	0.51
1:P:210:TYR:HE1	1:P:482:GLN:HE21	1.58	0.51
1:Q:450:PRO:HB2	1:Q:451:TRP:CD2	2.44	0.51
1:R:82:ARG:HG2	1:R:86:PHE:CG	2.46	0.51
1:R:339:TRP:CE3	1:R:350:ILE:HD11	2.46	0.51
1:S:287:THR:CG2	1:S:569:MET:SD	2.99	0.51
1:S:547:LEU:HD21	1:T:530:ASN:ND2	2.26	0.51
1:T:393:GLN:HE22	1:f:318:SER:CB	2.24	0.51
1:T:406:ASN:CG	1:4:342:HIS:HE1	2.16	0.51
1:U:387:ASP:OD1	1:U:387:ASP:N	2.43	0.51
1:V:141:HIS:NE2	1:V:518:ILE:HD12	2.25	0.51
1:V:192:MET:SD	1:X:327:VAL:HG13	2.50	0.51
1:V:327:VAL:HG13	1:5:192:MET:SD	2.50	0.51
1:X:287:THR:CG2	1:X:569:MET:SD	2.99	0.51
1:X:468:SER:OG	1:X:471:ALA:O	2.22	0.51
1:Y:404:GLN:NE2	1:Y:443:ASP:H	2.09	0.51
1:Z:387:ASP:OD1	1:Z:387:ASP:N	2.43	0.51
1:1:287:THR:CG2	1:1:569:MET:SD	2.99	0.51
1:1:327:VAL:HG13	1:0:192:MET:SD	2.50	0.51
1:3:318:SER:CB	1:i:393:GLN:HE22	2.24	0.51
1:4:82:ARG:HG2	1:4:86:PHE:CG	2.46	0.51
1:4:210:TYR:HE1	1:4:482:GLN:HE21	1.58	0.51
1:5:82:ARG:HG2	1:5:86:PHE:CG	2.46	0.51
1:6:145:THR:OG1	1:6:514:THR:OG1	2.27	0.51
1:6:192:MET:SD	1:a:327:VAL:HG13	2.50	0.51
1:6:342:HIS:HD2	1:a:331:HIS:CE1	2.29	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:6:404:GLN:NE2	1:6:443:ASP:H	2.09	0.51
1:a:339:TRP:CE3	1:a:350:ILE:HD11	2.46	0.51
1:a:386:ASP:CG	1:a:387:ASP:OD1	2.52	0.51
1:c:327:VAL:HG13	1:d:192:MET:SD	2.50	0.51
1:d:145:THR:OG1	1:d:514:THR:OG1	2.27	0.51
1:f:217:TRP:CE2	1:f:239:ARG:CD	2.90	0.51
1:f:407:TRP:CE3	1:f:410:LYS:HE2	2.45	0.51
1:h:287:THR:CG2	1:h:569:MET:SD	2.99	0.51
1:h:319:ASP:HB3	1:h:320:PRO:HD3	1.93	0.51
1:h:339:TRP:CE3	1:h:350:ILE:HD11	2.46	0.51
1:j:82:ARG:HG2	1:j:86:PHE:CG	2.46	0.51
1:k:468:SER:OG	1:k:471:ALA:O	2.22	0.51
1:m:359:ALA:HA	1:m:362:SER:HB2	1.92	0.51
1:n:34:GLY:HA2	1:s:37:HIS:CE1	2.46	0.51
1:n:77:ILE:HG12	1:n:106:VAL:HB	1.91	0.51
1:r:287:THR:CG2	1:r:569:MET:SD	2.99	0.51
1:t:77:ILE:HG12	1:t:106:VAL:HB	1.91	0.51
1:y:319:ASP:HB3	1:y:320:PRO:HD3	1.93	0.51
1:y:339:TRP:CE3	1:y:350:ILE:HD11	2.46	0.51
1:z:318:SER:CB	1:7:393:GLN:HE22	2.24	0.51
1:7:339:TRP:CE3	1:7:350:ILE:HD11	2.46	0.51
1:A:77:ILE:HG12	1:A:106:VAL:HB	1.91	0.51
1:A:318:SER:CB	1:G:393:GLN:HE22	2.23	0.51
1:C:406:ASN:CG	1:2:342:HIS:HE1	2.16	0.51
1:D:34:GLY:HA2	1:E:37:HIS:CE1	2.45	0.51
1:D:145:THR:OG1	1:D:514:THR:OG1	2.27	0.51
1:E:318:SER:CB	1:Q:393:GLN:HE22	2.23	0.51
1:E:359:ALA:HA	1:E:362:SER:HB2	1.92	0.51
1:F:82:ARG:HG2	1:F:86:PHE:CG	2.46	0.51
1:H:287:THR:CG2	1:H:569:MET:SD	2.99	0.51
1:I:287:THR:CG2	1:I:569:MET:SD	2.99	0.51
1:J:82:ARG:HG2	1:J:86:PHE:CG	2.46	0.51
1:K:192:MET:SD	1:0:327:VAL:HG13	2.50	0.51
1:K:319:ASP:HB3	1:K:320:PRO:HD3	1.93	0.51
1:L:359:ALA:HA	1:L:362:SER:HB2	1.92	0.51
1:N:287:THR:CG2	1:N:569:MET:SD	2.99	0.51
1:N:298:ALA:HA	1:O:551:ILE:HD11	1.91	0.51
1:N:318:SER:CB	1:P:393:GLN:HE22	2.24	0.51
1:N:359:ALA:HA	1:N:362:SER:HB2	1.92	0.51
1:O:75:TYR:OH	1:O:249:GLU:OE1	2.28	0.51
1:R:287:THR:CG2	1:R:569:MET:SD	2.99	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:R:318:SER:CB	1:S:393:GLN:HE22	2.23	0.51
1:R:393:GLN:HE22	1:U:318:SER:CB	2.24	0.51
1:S:359:ALA:HA	1:S:362:SER:HB2	1.92	0.51
1:T:192:MET:SD	1:f:327:VAL:HG13	2.50	0.51
1:T:407:TRP:CE3	1:T:410:LYS:HE2	2.45	0.51
1:V:387:ASP:OD1	1:V:387:ASP:N	2.43	0.51
1:X:319:ASP:HB3	1:X:320:PRO:HD3	1.93	0.51
1:1:210:TYR:HE1	1:1:482:GLN:HE21	1.58	0.51
1:1:319:ASP:HB3	1:1:320:PRO:HD3	1.93	0.51
1:1:468:SER:OG	1:1:471:ALA:O	2.21	0.51
1:2:404:GLN:NE2	1:2:443:ASP:H	2.09	0.51
1:3:319:ASP:HB3	1:3:320:PRO:HD3	1.93	0.51
1:3:331:HIS:CE1	1:i:342:HIS:HD2	2.29	0.51
1:3:359:ALA:HA	1:3:362:SER:HB2	1.92	0.51
1:5:37:HIS:CE1	1:b:34:GLY:HA2	2.46	0.51
1:5:319:ASP:HB3	1:5:320:PRO:HD3	1.93	0.51
1:5:339:TRP:CE3	1:5:350:ILE:HD11	2.46	0.51
1:b:359:ALA:HA	1:b:362:SER:HB2	1.92	0.51
1:c:393:GLN:HE22	1:e:318:SER:CB	2.24	0.51
1:c:404:GLN:NE2	1:c:443:ASP:H	2.09	0.51
1:f:319:ASP:HB3	1:f:320:PRO:HD3	1.93	0.51
1:f:359:ALA:HA	1:f:362:SER:HB2	1.92	0.51
1:h:82:ARG:HG2	1:h:86:PHE:CG	2.46	0.51
1:h:359:ALA:HA	1:h:362:SER:HB2	1.92	0.51
1:i:210:TYR:HE1	1:i:482:GLN:HE21	1.58	0.51
1:i:327:VAL:HG13	1:j:192:MET:SD	2.50	0.51
1:j:210:TYR:HE1	1:j:482:GLN:HE21	1.58	0.51
1:j:407:TRP:CE3	1:j:410:LYS:HE2	2.45	0.51
1:k:551:ILE:HD11	1:r:298:ALA:HA	1.91	0.51
1:m:82:ARG:HG2	1:m:86:PHE:CG	2.46	0.51
1:m:287:THR:CG2	1:m:569:MET:SD	2.99	0.51
1:m:319:ASP:HB3	1:m:320:PRO:HD3	1.93	0.51
1:n:37:HIS:CE1	1:z:34:GLY:HA2	2.45	0.51
1:n:319:ASP:HB3	1:n:320:PRO:HD3	1.93	0.51
1:o:82:ARG:HG2	1:o:86:PHE:CG	2.46	0.51
1:o:318:SER:CB	1:p:393:GLN:HE22	2.24	0.51
1:p:82:ARG:HG2	1:p:86:PHE:CG	2.46	0.51
1:p:359:ALA:HA	1:p:362:SER:HB2	1.92	0.51
1:q:192:MET:SD	1:s:327:VAL:HG13	2.50	0.51
1:q:342:HIS:HD2	1:s:331:HIS:CE1	2.29	0.51
1:r:318:SER:CB	1:s:393:GLN:HE22	2.24	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:r:359:ALA:HA	1:r:362:SER:HB2	1.92	0.51
1:s:210:TYR:HE1	1:s:482:GLN:HE21	1.58	0.51
1:t:319:ASP:HB3	1:t:320:PRO:HD3	1.93	0.51
1:u:77:ILE:HG12	1:u:106:VAL:HB	1.91	0.51
1:u:404:GLN:NE2	1:u:443:ASP:H	2.09	0.51
1:v:141:HIS:NE2	1:v:518:ILE:HD12	2.24	0.51
1:v:404:GLN:NE2	1:v:443:ASP:H	2.09	0.51
1:x:287:THR:CG2	1:x:569:MET:SD	2.99	0.51
1:y:393:GLN:HE22	1:7:318:SER:CB	2.24	0.51
1:7:387:ASP:OD1	1:7:387:ASP:N	2.43	0.51
1:0:141:HIS:NE2	1:0:518:ILE:HD12	2.25	0.51
1:0:387:ASP:OD1	1:0:387:ASP:N	2.43	0.51
1:B:318:SER:CB	1:J:393:GLN:HE22	2.24	0.51
1:B:407:TRP:CZ3	1:B:410:LYS:HE2	2.46	0.51
1:D:82:ARG:HG2	1:D:86:PHE:CG	2.46	0.51
1:D:141:HIS:NE2	1:D:518:ILE:HD12	2.25	0.51
1:D:319:ASP:HB3	1:D:320:PRO:HD3	1.93	0.51
1:D:327:VAL:HG13	1:N:192:MET:SD	2.50	0.51
1:D:407:TRP:CZ3	1:D:410:LYS:HE2	2.46	0.51
1:H:319:ASP:HB3	1:H:320:PRO:HD3	1.93	0.51
1:I:319:ASP:HB3	1:I:320:PRO:HD3	1.93	0.51
1:I:407:TRP:CZ3	1:I:410:LYS:HE2	2.46	0.51
1:K:339:TRP:CE3	1:K:350:ILE:HD11	2.46	0.51
1:L:387:ASP:OD1	1:L:387:ASP:N	2.43	0.51
1:L:404:GLN:NE2	1:L:443:ASP:H	2.09	0.51
1:O:210:TYR:HE1	1:O:482:GLN:HE21	1.58	0.51
1:P:407:TRP:CE3	1:P:410:LYS:HE2	2.45	0.51
1:T:34:GLY:HA2	1:c:37:HIS:CE1	2.46	0.51
1:T:210:TYR:HE1	1:T:482:GLN:HE21	1.58	0.51
1:T:342:HIS:HD2	1:f:331:HIS:CE1	2.29	0.51
1:T:356:PHE:HB2	1:T:405:THR:HG22	1.91	0.51
1:T:387:ASP:OD1	1:T:387:ASP:N	2.43	0.51
1:V:404:GLN:NE2	1:V:443:ASP:H	2.09	0.51
1:X:210:TYR:HE1	1:X:482:GLN:HE21	1.58	0.51
1:Y:319:ASP:HB3	1:Y:320:PRO:HD3	1.93	0.51
1:3:327:VAL:HG13	1:i:192:MET:SD	2.50	0.51
1:6:82:ARG:HG2	1:6:86:PHE:CG	2.46	0.51
1:6:327:VAL:HG13	1:b:192:MET:SD	2.50	0.51
1:6:393:GLN:HE22	1:a:318:SER:CB	2.24	0.51
1:a:342:HIS:HE1	1:b:406:ASN:CG	2.17	0.51
1:c:331:HIS:CE1	1:d:342:HIS:HD2	2.29	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:d:37:HIS:CE1	1:r:34:GLY:HA2	2.45	0.51
1:e:145:THR:OG1	1:e:514:THR:OG1	2.27	0.51
1:e:210:TYR:HE1	1:e:482:GLN:HE21	1.58	0.51
1:i:82:ARG:HG2	1:i:86:PHE:CG	2.46	0.51
1:i:318:SER:CB	1:j:393:GLN:HE22	2.24	0.51
1:i:387:ASP:OD1	1:i:387:ASP:N	2.43	0.51
1:i:407:TRP:CZ3	1:i:410:LYS:HE2	2.46	0.51
1:i:407:TRP:CE3	1:i:410:LYS:HE2	2.45	0.51
1:k:192:MET:SD	1:m:327:VAL:HG13	2.50	0.51
1:k:210:TYR:HE1	1:k:482:GLN:HE21	1.58	0.51
1:n:287:THR:CG2	1:n:569:MET:SD	2.99	0.51
1:n:318:SER:CB	1:o:393:GLN:HE22	2.23	0.51
1:n:327:VAL:HG13	1:o:192:MET:SD	2.50	0.51
1:o:319:ASP:HB3	1:o:320:PRO:HD3	1.93	0.51
1:p:37:HIS:CE1	1:q:34:GLY:HA2	2.45	0.51
1:q:82:ARG:HG2	1:q:86:PHE:CG	2.46	0.51
1:q:327:VAL:HG13	1:r:192:MET:SD	2.50	0.51
1:s:407:TRP:CE3	1:s:410:LYS:HE2	2.45	0.51
1:t:287:THR:CG2	1:t:569:MET:SD	2.99	0.51
1:t:407:TRP:CZ3	1:t:410:LYS:HE2	2.46	0.51
1:u:145:THR:OG1	1:u:514:THR:OG1	2.27	0.51
1:u:331:HIS:CE1	1:v:342:HIS:HD2	2.29	0.51
1:x:356:PHE:HB2	1:x:405:THR:HG22	1.91	0.51
1:y:82:ARG:HG2	1:y:86:PHE:CG	2.46	0.51
1:z:75:TYR:OH	1:z:249:GLU:OE1	2.28	0.51
1:z:359:ALA:HA	1:z:362:SER:HB2	1.92	0.51
1:0:210:TYR:HE1	1:0:482:GLN:HE21	1.58	0.51
1:A:393:GLN:HE22	1:I:318:SER:CB	2.24	0.51
1:C:82:ARG:HG2	1:C:86:PHE:CG	2.46	0.51
1:C:359:ALA:HA	1:C:362:SER:HB2	1.92	0.51
1:D:287:THR:CG2	1:D:569:MET:SD	2.99	0.51
1:D:530:ASN:ND2	1:M:547:LEU:HD21	2.26	0.51
1:F:319:ASP:HB3	1:F:320:PRO:HD3	1.93	0.51
1:F:407:TRP:CZ3	1:F:410:LYS:HE2	2.46	0.51
1:H:386:ASP:CG	1:H:387:ASP:OD1	2.52	0.51
1:J:407:TRP:CE3	1:J:410:LYS:HE2	2.45	0.51
1:K:37:HIS:CE1	1:L:34:GLY:HA2	2.46	0.51
1:M:37:HIS:CE1	1:N:34:GLY:HA2	2.45	0.51
1:M:342:HIS:HD2	1:2:331:HIS:CE1	2.29	0.51
1:M:356:PHE:HB2	1:M:405:THR:HG22	1.91	0.51
1:M:359:ALA:HA	1:M:362:SER:HB2	1.92	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:319:ASP:HB3	1:N:320:PRO:HD3	1.93	0.51
1:N:407:TRP:CZ3	1:N:410:LYS:HE2	2.46	0.51
1:O:192:MET:SD	1:h:327:VAL:HG13	2.50	0.51
1:P:359:ALA:HA	1:P:362:SER:HB2	1.93	0.51
1:Q:319:ASP:HB3	1:Q:320:PRO:HD3	1.93	0.51
1:R:404:GLN:NE2	1:R:443:ASP:H	2.09	0.51
1:T:82:ARG:HG2	1:T:86:PHE:CG	2.46	0.51
1:T:318:SER:CB	1:4:393:GLN:HE22	2.24	0.51
1:T:327:VAL:HG13	1:4:192:MET:SD	2.50	0.51
1:T:407:TRP:CZ3	1:T:410:LYS:HE2	2.46	0.51
1:U:407:TRP:CZ3	1:U:410:LYS:HE2	2.46	0.51
1:V:82:ARG:HG2	1:V:86:PHE:CG	2.46	0.51
1:V:210:TYR:HE1	1:V:482:GLN:HE21	1.58	0.51
1:W:406:ASN:CB	1:Y:342:HIS:CE1	2.94	0.51
1:X:77:ILE:HG12	1:X:106:VAL:HB	1.91	0.51
1:X:217:TRP:CE2	1:X:239:ARG:CD	2.90	0.51
1:Y:407:TRP:CZ3	1:Y:410:LYS:HE2	2.46	0.51
1:Z:82:ARG:HG2	1:Z:86:PHE:CG	2.46	0.51
1:Z:319:ASP:HB3	1:Z:320:PRO:HD3	1.93	0.51
1:Z:342:HIS:CE1	1:w:406:ASN:CB	2.94	0.51
1:Z:407:TRP:CZ3	1:Z:410:LYS:HE2	2.46	0.51
1:2:407:TRP:CZ3	1:2:410:LYS:HE2	2.46	0.51
1:3:339:TRP:CE3	1:3:350:ILE:HD11	2.46	0.51
1:4:407:TRP:CE3	1:4:410:LYS:HE2	2.45	0.51
1:5:387:ASP:OD1	1:5:387:ASP:N	2.43	0.51
1:6:407:TRP:CE3	1:6:410:LYS:HE2	2.45	0.51
1:a:34:GLY:HA2	1:e:37:HIS:CE1	2.45	0.51
1:a:37:HIS:CE1	1:u:34:GLY:HA2	2.46	0.51
1:a:407:TRP:CZ3	1:a:410:LYS:HE2	2.46	0.51
1:b:319:ASP:HB3	1:b:320:PRO:HD3	1.93	0.51
1:b:339:TRP:CE3	1:b:350:ILE:HD11	2.46	0.51
1:b:387:ASP:OD1	1:b:387:ASP:N	2.43	0.51
1:b:404:GLN:NE2	1:b:443:ASP:H	2.09	0.51
1:c:287:THR:CG2	1:c:569:MET:SD	2.98	0.51
1:c:407:TRP:CZ3	1:c:410:LYS:HE2	2.46	0.51
1:d:356:PHE:HB2	1:d:405:THR:HG22	1.91	0.51
1:e:287:THR:CG2	1:e:569:MET:SD	2.99	0.51
1:f:77:ILE:HG12	1:f:106:VAL:HB	1.91	0.51
1:f:287:THR:CG2	1:f:569:MET:SD	2.99	0.51
1:f:404:GLN:NE2	1:f:443:ASP:H	2.09	0.51
1:g:287:THR:CG2	1:g:569:MET:SD	2.99	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:g:319:ASP:HB3	1:g:320:PRO:HD3	1.93	0.51
1:i:406:ASN:CG	1:j:342:HIS:HE1	2.16	0.51
1:k:75:TYR:OH	1:k:249:GLU:OE1	2.28	0.51
1:k:339:TRP:CE3	1:k:350:ILE:HD11	2.46	0.51
1:p:77:ILE:HG12	1:p:106:VAL:HB	1.91	0.51
1:p:319:ASP:HB3	1:p:320:PRO:HD3	1.93	0.51
1:p:530:ASN:ND2	1:s:547:LEU:HD21	2.26	0.51
1:q:145:THR:OG1	1:q:514:THR:OG1	2.27	0.51
1:q:287:THR:CG2	1:q:569:MET:SD	2.99	0.51
1:q:319:ASP:HB3	1:q:320:PRO:HD3	1.93	0.51
1:q:407:TRP:CZ3	1:q:410:LYS:HE2	2.46	0.51
1:r:319:ASP:HB3	1:r:320:PRO:HD3	1.93	0.51
1:r:407:TRP:CZ3	1:r:410:LYS:HE2	2.46	0.51
1:s:359:ALA:HA	1:s:362:SER:HB2	1.92	0.51
1:v:319:ASP:HB3	1:v:320:PRO:HD3	1.93	0.51
1:x:319:ASP:HB3	1:x:320:PRO:HD3	1.93	0.51
1:y:287:THR:CG2	1:y:569:MET:SD	2.99	0.51
1:y:318:SER:CB	1:z:393:GLN:HE22	2.24	0.51
1:y:404:GLN:NE2	1:y:443:ASP:H	2.09	0.51
1:C:287:THR:CG2	1:C:569:MET:SD	2.99	0.51
1:C:407:TRP:CZ3	1:C:410:LYS:HE2	2.46	0.51
1:E:77:ILE:HG12	1:E:106:VAL:HB	1.91	0.51
1:E:530:ASN:ND2	1:P:547:LEU:HD21	2.26	0.51
1:F:339:TRP:CE3	1:F:350:ILE:HD11	2.46	0.51
1:G:287:THR:CG2	1:G:569:MET:SD	2.99	0.51
1:G:319:ASP:HB3	1:G:320:PRO:HD3	1.93	0.51
1:G:359:ALA:HA	1:G:362:SER:HB2	1.92	0.51
1:K:359:ALA:HA	1:K:362:SER:HB2	1.92	0.51
1:L:319:ASP:HB3	1:L:320:PRO:HD3	1.93	0.51
1:L:339:TRP:CE3	1:L:350:ILE:HD11	2.46	0.51
1:M:210:TYR:HE1	1:M:482:GLN:HE21	1.58	0.51
1:M:404:GLN:NE2	1:M:443:ASP:H	2.09	0.51
1:N:339:TRP:CE3	1:N:350:ILE:HD11	2.46	0.51
1:O:339:TRP:CE3	1:O:350:ILE:HD11	2.46	0.51
1:Q:287:THR:CG2	1:Q:569:MET:SD	2.98	0.51
1:Q:387:ASP:OD1	1:Q:387:ASP:N	2.43	0.51
1:S:319:ASP:HB3	1:S:320:PRO:HD3	1.93	0.51
1:T:359:ALA:HA	1:T:362:SER:HB2	1.92	0.51
1:W:75:TYR:OH	1:W:249:GLU:OE1	2.27	0.51
1:W:82:ARG:HG2	1:W:86:PHE:CG	2.46	0.51
1:W:200:ILE:HD11	1:W:203:ARG:CG	2.38	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Y:82:ARG:HG2	1:Y:86:PHE:CG	2.46	0.51
1:Z:281:TRP:HE1	1:x:244:GLN:NE2	2.09	0.51
1:Z:468:SER:OG	1:Z:471:ALA:O	2.21	0.51
1:2:37:HIS:CE1	1:i:34:GLY:HA2	2.46	0.51
1:2:530:ASN:ND2	1:3:547:LEU:HD21	2.26	0.51
1:3:34:GLY:HA2	1:m:37:HIS:CE1	2.46	0.51
1:3:287:THR:CG2	1:3:569:MET:SD	2.99	0.51
1:3:404:GLN:NE2	1:3:443:ASP:H	2.09	0.51
1:5:359:ALA:HA	1:5:362:SER:HB2	1.92	0.51
1:d:210:TYR:HE1	1:d:482:GLN:HE21	1.58	0.51
1:d:404:GLN:NE2	1:d:443:ASP:H	2.09	0.51
1:e:82:ARG:HG2	1:e:86:PHE:CG	2.46	0.51
1:e:359:ALA:HA	1:e:362:SER:HB2	1.92	0.51
1:f:339:TRP:CE3	1:f:350:ILE:HD11	2.46	0.51
1:i:404:GLN:NE2	1:i:443:ASP:H	2.09	0.51
1:l:287:THR:CG2	1:l:569:MET:SD	2.99	0.51
1:l:319:ASP:HB3	1:l:320:PRO:HD3	1.93	0.51
1:l:404:GLN:NE2	1:l:443:ASP:H	2.09	0.51
1:n:359:ALA:HA	1:n:362:SER:HB2	1.92	0.51
1:o:339:TRP:CE3	1:o:350:ILE:HD11	2.46	0.51
1:r:339:TRP:CE3	1:r:350:ILE:HD11	2.46	0.51
1:v:145:THR:OG1	1:v:514:THR:OG1	2.27	0.51
1:v:287:THR:CG2	1:v:569:MET:SD	2.99	0.51
1:v:339:TRP:CE3	1:v:350:ILE:HD11	2.46	0.51
1:w:82:ARG:HG2	1:w:86:PHE:CG	2.46	0.51
1:w:210:TYR:HE1	1:w:482:GLN:HE21	1.58	0.51
1:z:319:ASP:HB3	1:z:320:PRO:HD3	1.93	0.51
1:0:82:ARG:HG2	1:0:86:PHE:CG	2.46	0.51
1:0:404:GLN:NE2	1:0:443:ASP:H	2.09	0.51
1:B:192:MET:SD	1:L:327:VAL:HG13	2.50	0.51
1:D:77:ILE:HG12	1:D:106:VAL:HB	1.91	0.51
1:E:319:ASP:HB3	1:E:320:PRO:HD3	1.93	0.51
1:G:339:TRP:CE3	1:G:350:ILE:HD11	2.46	0.51
1:H:210:TYR:HE1	1:H:482:GLN:HE21	1.58	0.51
1:H:244:GLN:NE2	1:Y:281:TRP:HE1	2.09	0.51
1:J:280:HIS:HD2	1:J:443:ASP:OD2	1.94	0.51
1:K:387:ASP:OD1	1:K:387:ASP:N	2.43	0.51
1:K:407:TRP:CZ3	1:K:410:LYS:HE2	2.46	0.51
1:L:75:TYR:OH	1:L:249:GLU:OE1	2.27	0.51
1:L:210:TYR:HE1	1:L:482:GLN:HE21	1.58	0.51
1:M:393:GLN:HE22	1:2:318:SER:CB	2.24	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:O:82:ARG:HG2	1:O:86:PHE:CG	2.46	0.51
1:O:244:GLN:NE2	1:h:281:TRP:HE1	2.09	0.51
1:O:318:SER:HB2	1:g:393:GLN:NE2	2.26	0.51
1:P:82:ARG:HG2	1:P:86:PHE:CG	2.46	0.51
1:Q:404:GLN:NE2	1:Q:443:ASP:H	2.09	0.51
1:U:287:THR:CG2	1:U:569:MET:SD	2.99	0.51
1:W:210:TYR:HE1	1:W:482:GLN:HE21	1.58	0.51
1:W:327:VAL:HG13	1:Y:192:MET:SD	2.50	0.51
1:X:280:HIS:HD2	1:X:443:ASP:OD2	1.94	0.51
1:X:407:TRP:CZ3	1:X:410:LYS:HE2	2.46	0.51
1:Y:468:SER:OG	1:Y:471:ALA:O	2.21	0.51
1:Z:192:MET:SD	1:w:327:VAL:HG13	2.50	0.51
1:1:77:ILE:HG12	1:1:106:VAL:HB	1.91	0.51
1:1:280:HIS:HD2	1:1:443:ASP:OD2	1.94	0.51
1:1:530:ASN:ND2	1:w:547:LEU:HD21	2.25	0.51
1:2:287:THR:CG2	1:2:569:MET:SD	2.99	0.51
1:3:77:ILE:HG12	1:3:106:VAL:HB	1.91	0.51
1:3:280:HIS:HD2	1:3:443:ASP:OD2	1.94	0.51
1:3:407:TRP:CZ3	1:3:410:LYS:HE2	2.46	0.51
1:5:407:TRP:CZ3	1:5:410:LYS:HE2	2.46	0.51
1:6:280:HIS:HD2	1:6:443:ASP:OD2	1.94	0.51
1:6:339:TRP:CE3	1:6:350:ILE:HD11	2.46	0.51
1:a:404:GLN:NE2	1:a:443:ASP:H	2.09	0.51
1:b:75:TYR:OH	1:b:249:GLU:OE1	2.27	0.51
1:b:200:ILE:HD11	1:b:203:ARG:CG	2.38	0.51
1:b:210:TYR:HE1	1:b:482:GLN:HE21	1.58	0.51
1:c:82:ARG:HG2	1:c:86:PHE:CG	2.46	0.51
1:c:318:SER:CB	1:d:393:GLN:HE22	2.24	0.51
1:c:319:ASP:HB3	1:c:320:PRO:HD3	1.93	0.51
1:c:530:ASN:ND2	1:f:547:LEU:HD21	2.26	0.51
1:d:359:ALA:HA	1:d:362:SER:HB2	1.92	0.51
1:d:547:LEU:HD21	1:q:530:ASN:ND2	2.26	0.51
1:f:34:GLY:HA2	1:h:37:HIS:CE1	2.46	0.51
1:g:404:GLN:NE2	1:g:443:ASP:H	2.09	0.51
1:i:359:ALA:HA	1:i:362:SER:HB2	1.92	0.51
1:k:82:ARG:HG2	1:k:86:PHE:CG	2.46	0.51
1:k:244:GLN:NE2	1:m:281:TRP:HE1	2.09	0.51
1:l:77:ILE:HG12	1:l:106:VAL:HB	1.91	0.51
1:n:387:ASP:OD1	1:n:387:ASP:N	2.43	0.51
1:n:393:GLN:HE22	1:p:318:SER:CB	2.24	0.51
1:o:407:TRP:CZ3	1:o:410:LYS:HE2	2.46	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:q:77:ILE:HG12	1:q:106:VAL:HB	1.91	0.51
1:r:404:GLN:NE2	1:r:443:ASP:H	2.09	0.51
1:t:82:ARG:HG2	1:t:86:PHE:CG	2.46	0.51
1:u:210:TYR:HE1	1:u:482:GLN:HE21	1.58	0.51
1:v:359:ALA:HA	1:v:362:SER:HB2	1.92	0.51
1:x:210:TYR:HE1	1:x:482:GLN:HE21	1.58	0.51
1:x:386:ASP:CG	1:x:387:ASP:OD1	2.52	0.51
1:7:287:THR:CG2	1:7:569:MET:SD	2.99	0.51
1:7:407:TRP:CZ3	1:7:410:LYS:HE2	2.46	0.51
1:A:210:TYR:HE1	1:A:482:GLN:HE21	1.58	0.51
1:A:387:ASP:OD1	1:A:387:ASP:N	2.43	0.51
1:B:342:HIS:HE1	1:L:406:ASN:CG	2.16	0.51
1:B:404:GLN:NE2	1:B:443:ASP:H	2.09	0.51
1:D:244:GLN:NE2	1:P:281:TRP:HE1	2.09	0.51
1:G:82:ARG:HG2	1:G:86:PHE:CG	2.46	0.51
1:G:145:THR:OG1	1:G:514:THR:OG1	2.27	0.51
1:G:280:HIS:HD2	1:G:443:ASP:OD2	1.94	0.51
1:H:82:ARG:HG2	1:H:86:PHE:CG	2.46	0.51
1:I:82:ARG:HG2	1:I:86:PHE:CG	2.46	0.51
1:I:468:SER:OG	1:I:471:ALA:O	2.21	0.51
1:J:339:TRP:CE3	1:J:350:ILE:HD11	2.46	0.51
1:K:244:GLN:NE2	1:0:281:TRP:HE1	2.09	0.51
1:K:342:HIS:HE1	1:0:406:ASN:CG	2.16	0.51
1:L:287:THR:CG2	1:L:569:MET:SD	2.99	0.51
1:N:387:ASP:OD1	1:N:387:ASP:N	2.43	0.51
1:N:404:GLN:NE2	1:N:443:ASP:H	2.09	0.51
1:O:281:TRP:HE1	1:g:244:GLN:NE2	2.09	0.51
1:P:75:TYR:OH	1:P:249:GLU:OE1	2.28	0.51
1:Q:359:ALA:HA	1:Q:362:SER:HB2	1.92	0.51
1:Q:407:TRP:CZ3	1:Q:410:LYS:HE2	2.46	0.51
1:R:117:SER:HB2	1:R:191:ASN:ND2	2.26	0.51
1:R:387:ASP:OD1	1:R:387:ASP:N	2.43	0.51
1:T:287:THR:CG2	1:T:569:MET:SD	2.98	0.51
1:T:404:GLN:NE2	1:T:443:ASP:H	2.09	0.51
1:V:393:GLN:HE22	1:X:318:SER:CB	2.24	0.51
1:V:406:ASN:CG	1:5:342:HIS:HE1	2.16	0.51
1:W:117:SER:HB2	1:W:191:ASN:ND2	2.26	0.51
1:W:547:LEU:HD21	1:X:530:ASN:ND2	2.25	0.51
1:Z:393:GLN:HE22	1:w:318:SER:CB	2.23	0.51
1:1:407:TRP:CZ3	1:1:410:LYS:HE2	2.46	0.51
1:2:82:ARG:HG2	1:2:86:PHE:CG	2.46	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:2:319:ASP:HB3	1:2:320:PRO:HD3	1.93	0.51
1:4:547:LEU:HD21	1:h:530:ASN:ND2	2.26	0.51
1:5:530:ASN:ND2	1:6:547:LEU:HD21	2.26	0.51
1:6:318:SER:CB	1:b:393:GLN:HE22	2.24	0.51
1:a:192:MET:SD	1:b:327:VAL:HG13	2.50	0.51
1:a:387:ASP:OD1	1:a:387:ASP:N	2.43	0.51
1:b:82:ARG:HG2	1:b:86:PHE:CG	2.46	0.51
1:d:117:SER:HB2	1:d:191:ASN:ND2	2.26	0.51
1:e:407:TRP:CZ3	1:e:410:LYS:HE2	2.46	0.51
1:f:280:HIS:HD2	1:f:443:ASP:OD2	1.94	0.51
1:g:281:TRP:HE1	1:h:244:GLN:NE2	2.09	0.51
1:j:530:ASN:ND2	1:m:547:LEU:HD21	2.26	0.51
1:k:318:SER:HB2	1:l:393:GLN:NE2	2.26	0.51
1:l:281:TRP:HE1	1:m:244:GLN:NE2	2.09	0.51
1:m:75:TYR:OH	1:m:249:GLU:OE1	2.28	0.51
1:o:406:ASN:CB	1:p:342:HIS:CE1	2.95	0.51
1:o:547:LEU:HD21	1:u:530:ASN:ND2	2.26	0.51
1:p:547:LEU:HD21	1:s:530:ASN:ND2	2.26	0.51
1:q:244:GLN:NE2	1:s:281:TRP:HE1	2.09	0.51
1:r:331:HIS:CE1	1:s:342:HIS:HD2	2.29	0.51
1:s:82:ARG:HG2	1:s:86:PHE:CG	2.46	0.51
1:u:318:SER:CB	1:v:393:GLN:HE22	2.24	0.51
1:u:339:TRP:CE3	1:u:350:ILE:HD11	2.46	0.51
1:u:387:ASP:OD1	1:u:387:ASP:N	2.43	0.51
1:v:82:ARG:HG2	1:v:86:PHE:CG	2.46	0.51
1:v:280:HIS:HD2	1:v:443:ASP:OD2	1.94	0.51
1:w:117:SER:HB2	1:w:191:ASN:ND2	2.26	0.51
1:w:200:ILE:HD11	1:w:203:ARG:CG	2.38	0.51
1:y:117:SER:HB2	1:y:191:ASN:ND2	2.26	0.51
1:y:281:TRP:HE1	1:z:244:GLN:NE2	2.10	0.51
1:A:82:ARG:HG2	1:A:86:PHE:CG	2.46	0.50
1:A:287:THR:CG2	1:A:569:MET:SD	2.99	0.50
1:A:339:TRP:CE3	1:A:350:ILE:HD11	2.46	0.50
1:B:319:ASP:HB3	1:B:320:PRO:HD3	1.93	0.50
1:B:387:ASP:OD1	1:B:387:ASP:N	2.43	0.50
1:E:342:HIS:HD2	1:F:331:HIS:CE1	2.28	0.50
1:E:547:LEU:HD21	1:P:530:ASN:ND2	2.26	0.50
1:G:406:ASN:CB	1:I:342:HIS:CE1	2.95	0.50
1:H:141:HIS:NE2	1:H:518:ILE:HD12	2.24	0.50
1:H:281:TRP:HE1	1:W:244:GLN:NE2	2.09	0.50
1:H:404:GLN:NE2	1:H:443:ASP:H	2.09	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:200:ILE:HD11	1:I:203:ARG:CG	2.38	0.50
1:J:547:LEU:HD21	1:K:530:ASN:ND2	2.26	0.50
1:L:82:ARG:HG2	1:L:86:PHE:CG	2.46	0.50
1:L:407:TRP:CZ3	1:L:410:LYS:HE2	2.46	0.50
1:M:34:GLY:HA2	1:3:37:HIS:CE1	2.46	0.50
1:M:82:ARG:HG2	1:M:86:PHE:CG	2.46	0.50
1:N:331:HIS:CE1	1:P:342:HIS:HD2	2.29	0.50
1:Q:75:TYR:OH	1:Q:249:GLU:OE1	2.27	0.50
1:R:281:TRP:HE1	1:S:244:GLN:NE2	2.10	0.50
1:S:339:TRP:CE3	1:S:350:ILE:HD11	2.46	0.50
1:S:387:ASP:OD1	1:S:387:ASP:N	2.43	0.50
1:V:34:GLY:HA2	1:W:37:HIS:CE1	2.45	0.50
1:V:281:TRP:HE1	1:5:244:GLN:NE2	2.09	0.50
1:V:406:ASN:CB	1:5:342:HIS:CE1	2.95	0.50
1:W:318:SER:CB	1:Y:393:GLN:HE22	2.23	0.50
1:4:530:ASN:ND2	1:h:547:LEU:HD21	2.26	0.50
1:a:319:ASP:HB3	1:a:320:PRO:HD3	1.93	0.50
1:b:287:THR:CG2	1:b:569:MET:SD	2.99	0.50
1:f:407:TRP:CZ3	1:f:410:LYS:HE2	2.46	0.50
1:g:530:ASN:ND2	1:l:547:LEU:HD21	2.26	0.50
1:g:547:LEU:HD21	1:l:530:ASN:ND2	2.26	0.50
1:h:145:THR:OG1	1:h:514:THR:OG1	2.27	0.50
1:i:117:SER:HB2	1:i:191:ASN:ND2	2.26	0.50
1:k:281:TRP:HE1	1:l:244:GLN:NE2	2.09	0.50
1:n:404:GLN:NE2	1:n:443:ASP:H	2.09	0.50
1:n:407:TRP:CZ3	1:n:410:LYS:HE2	2.46	0.50
1:o:34:GLY:HA2	1:y:37:HIS:CE1	2.45	0.50
1:o:331:HIS:CE1	1:p:342:HIS:HD2	2.29	0.50
1:p:477:ASP:OD1	1:p:478:GLY:N	2.43	0.50
1:r:387:ASP:OD1	1:r:387:ASP:N	2.43	0.50
1:s:75:TYR:OH	1:s:249:GLU:OE1	2.27	0.50
1:t:200:ILE:HD11	1:t:203:ARG:CG	2.38	0.50
1:u:287:THR:CG2	1:u:569:MET:SD	2.99	0.50
1:v:117:SER:HB2	1:v:191:ASN:ND2	2.27	0.50
1:w:75:TYR:OH	1:w:249:GLU:OE1	2.28	0.50
1:x:82:ARG:HG2	1:x:86:PHE:CG	2.46	0.50
1:x:141:HIS:NE2	1:x:518:ILE:HD12	2.24	0.50
1:x:404:GLN:NE2	1:x:443:ASP:H	2.09	0.50
1:z:339:TRP:CE3	1:z:350:ILE:HD11	2.46	0.50
1:z:387:ASP:OD1	1:z:387:ASP:N	2.43	0.50
1:A:37:HIS:CE1	1:E:34:GLY:HA2	2.44	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:192:MET:SD	1:I:327:VAL:HG13	2.51	0.50
1:A:407:TRP:CZ3	1:A:410:LYS:HE2	2.46	0.50
1:B:57:ILE:HB	1:B:519:LEU:HB2	1.94	0.50
1:B:117:SER:HB2	1:B:191:ASN:ND2	2.27	0.50
1:C:356:PHE:CG	1:C:405:THR:HA	2.47	0.50
1:E:244:GLN:NE2	1:F:281:TRP:HE1	2.09	0.50
1:E:393:GLN:NE2	1:F:318:SER:HB2	2.27	0.50
1:E:477:ASP:OD1	1:E:478:GLY:N	2.43	0.50
1:G:57:ILE:HB	1:G:519:LEU:HB2	1.94	0.50
1:G:117:SER:HB2	1:G:191:ASN:ND2	2.27	0.50
1:G:406:ASN:CG	1:I:342:HIS:HE1	2.16	0.50
1:I:210:TYR:HE1	1:I:482:GLN:HE21	1.58	0.50
1:J:287:THR:CG2	1:J:569:MET:SD	2.99	0.50
1:J:318:SER:CB	1:L:393:GLN:HE22	2.24	0.50
1:J:356:PHE:CG	1:J:405:THR:HA	2.47	0.50
1:K:281:TRP:HE1	1:1:244:GLN:NE2	2.10	0.50
1:K:342:HIS:CE1	1:0:406:ASN:CB	2.95	0.50
1:M:117:SER:HB2	1:M:191:ASN:ND2	2.27	0.50
1:N:406:ASN:CB	1:P:342:HIS:CE1	2.95	0.50
1:P:319:ASP:HB3	1:P:320:PRO:HD3	1.93	0.50
1:P:407:TRP:CZ3	1:P:410:LYS:HE2	2.46	0.50
1:T:117:SER:HB2	1:T:191:ASN:ND2	2.27	0.50
1:U:319:ASP:HB3	1:U:320:PRO:HD3	1.93	0.50
1:U:404:GLN:NE2	1:U:443:ASP:H	2.09	0.50
1:W:57:ILE:HB	1:W:519:LEU:HB2	1.94	0.50
1:W:530:ASN:ND2	1:X:547:LEU:HD21	2.27	0.50
1:X:244:GLN:NE2	1:5:281:TRP:HE1	2.10	0.50
1:X:356:PHE:CG	1:X:405:THR:HA	2.47	0.50
1:Z:477:ASP:OD1	1:Z:478:GLY:N	2.43	0.50
1:1:318:SER:CB	1:0:393:GLN:HE22	2.24	0.50
1:3:210:TYR:HE1	1:3:482:GLN:HE21	1.58	0.50
1:3:468:SER:OG	1:3:471:ALA:O	2.21	0.50
1:4:407:TRP:CZ3	1:4:410:LYS:HE2	2.46	0.50
1:a:57:ILE:HB	1:a:519:LEU:HB2	1.94	0.50
1:a:117:SER:HB2	1:a:191:ASN:ND2	2.27	0.50
1:d:34:GLY:HA2	1:f:37:HIS:CE1	2.46	0.50
1:d:82:ARG:HG2	1:d:86:PHE:CG	2.46	0.50
1:d:468:SER:OG	1:d:471:ALA:O	2.22	0.50
1:e:57:ILE:HB	1:e:519:LEU:HB2	1.94	0.50
1:f:210:TYR:HE1	1:f:482:GLN:HE21	1.58	0.50
1:f:387:ASP:OD1	1:f:387:ASP:N	2.43	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:f:468:SER:OG	1:f:471:ALA:O	2.21	0.50
1:g:356:PHE:CG	1:g:405:THR:HA	2.47	0.50
1:h:75:TYR:OH	1:h:249:GLU:OE1	2.28	0.50
1:h:210:TYR:HE1	1:h:482:GLN:HE21	1.58	0.50
1:h:404:GLN:NE2	1:h:443:ASP:H	2.09	0.50
1:i:287:THR:CG2	1:i:569:MET:CG	2.90	0.50
1:i:287:THR:CG2	1:i:569:MET:SD	2.98	0.50
1:j:547:LEU:HD21	1:m:530:ASN:ND2	2.26	0.50
1:k:280:HIS:HD2	1:k:443:ASP:OD2	1.94	0.50
1:l:82:ARG:HG2	1:l:86:PHE:CG	2.46	0.50
1:m:210:TYR:HE1	1:m:482:GLN:HE21	1.58	0.50
1:n:339:TRP:CE3	1:n:350:ILE:HD11	2.46	0.50
1:o:287:THR:CG2	1:o:569:MET:SD	2.99	0.50
1:p:339:TRP:CE3	1:p:350:ILE:HD11	2.46	0.50
1:r:406:ASN:CB	1:s:342:HIS:CE1	2.95	0.50
1:s:319:ASP:HB3	1:s:320:PRO:HD3	1.93	0.50
1:s:407:TRP:CZ3	1:s:410:LYS:HE2	2.46	0.50
1:t:210:TYR:HE1	1:t:482:GLN:HE21	1.58	0.50
1:t:342:HIS:CE1	1:v:406:ASN:CB	2.95	0.50
1:t:342:HIS:HE1	1:v:406:ASN:CG	2.16	0.50
1:u:82:ARG:HG2	1:u:86:PHE:CG	2.46	0.50
1:u:356:PHE:CG	1:u:405:THR:HA	2.47	0.50
1:u:406:ASN:CG	1:v:342:HIS:HE1	2.16	0.50
1:w:37:HIS:CE1	1:0:34:GLY:HA2	2.45	0.50
1:w:404:GLN:NE2	1:w:443:ASP:H	2.09	0.50
1:y:387:ASP:OD1	1:y:387:ASP:N	2.43	0.50
1:7:319:ASP:HB3	1:7:320:PRO:HD3	1.93	0.50
1:7:404:GLN:NE2	1:7:443:ASP:H	2.09	0.50
1:A:281:TRP:HE1	1:G:244:GLN:NE2	2.09	0.50
1:A:356:PHE:CG	1:A:405:THR:HA	2.47	0.50
1:B:281:TRP:HE1	1:J:244:GLN:NE2	2.10	0.50
1:B:356:PHE:CG	1:B:405:THR:HA	2.47	0.50
1:C:57:ILE:HB	1:C:519:LEU:HB2	1.94	0.50
1:E:210:TYR:HE1	1:E:482:GLN:HE21	1.58	0.50
1:E:327:VAL:HG13	1:Q:192:MET:SD	2.52	0.50
1:E:461:THR:HB	1:F:442:VAL:O	2.11	0.50
1:F:75:TYR:OH	1:F:249:GLU:OE1	2.28	0.50
1:F:287:THR:CG2	1:F:569:MET:SD	2.98	0.50
1:H:117:SER:HB2	1:H:191:ASN:ND2	2.26	0.50
1:M:280:HIS:HD2	1:M:443:ASP:OD2	1.94	0.50
1:O:280:HIS:HD2	1:O:443:ASP:OD2	1.94	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:O:331:HIS:CE1	1:g:342:HIS:HD2	2.29	0.50
1:Q:339:TRP:CE3	1:Q:350:ILE:HD11	2.46	0.50
1:R:244:GLN:NE2	1:U:281:TRP:HE1	2.10	0.50
1:R:280:HIS:HD2	1:R:443:ASP:OD2	1.95	0.50
1:R:342:HIS:CE1	1:U:406:ASN:CB	2.95	0.50
1:S:407:TRP:CZ3	1:S:410:LYS:HE2	2.46	0.50
1:T:287:THR:CG2	1:T:569:MET:CG	2.90	0.50
1:T:406:ASN:CB	1:4:342:HIS:CE1	2.95	0.50
1:U:468:SER:OG	1:U:471:ALA:O	2.22	0.50
1:U:547:LEU:HD21	1:V:530:ASN:ND2	2.26	0.50
1:W:404:GLN:NE2	1:W:443:ASP:H	2.09	0.50
1:X:117:SER:HB2	1:X:191:ASN:ND2	2.27	0.50
1:Y:287:THR:CG2	1:Y:569:MET:CG	2.90	0.50
1:Y:530:ASN:ND2	1:Z:547:LEU:HD21	2.26	0.50
1:1:117:SER:HB2	1:1:191:ASN:ND2	2.27	0.50
1:1:339:TRP:CE3	1:1:350:ILE:HD11	2.46	0.50
1:1:356:PHE:CG	1:1:405:THR:HA	2.47	0.50
1:2:356:PHE:CG	1:2:405:THR:HA	2.47	0.50
1:3:387:ASP:OD1	1:3:387:ASP:N	2.43	0.50
1:6:331:HIS:CE1	1:b:342:HIS:HD2	2.29	0.50
1:6:356:PHE:CG	1:6:405:THR:HA	2.47	0.50
1:a:82:ARG:HG2	1:a:86:PHE:CG	2.46	0.50
1:a:356:PHE:CG	1:a:405:THR:HA	2.47	0.50
1:b:530:ASN:ND2	1:e:547:LEU:HD21	2.26	0.50
1:c:356:PHE:CG	1:c:405:THR:HA	2.47	0.50
1:e:34:GLY:HA2	1:q:37:HIS:CE1	2.46	0.50
1:e:356:PHE:CG	1:e:405:THR:HA	2.47	0.50
1:g:77:ILE:HG12	1:g:106:VAL:HB	1.91	0.50
1:g:82:ARG:HG2	1:g:86:PHE:CG	2.46	0.50
1:j:287:THR:CG2	1:j:569:MET:CG	2.90	0.50
1:j:339:TRP:CE3	1:j:350:ILE:HD11	2.46	0.50
1:l:280:HIS:HD2	1:l:443:ASP:OD2	1.94	0.50
1:l:356:PHE:CG	1:l:405:THR:HA	2.47	0.50
1:m:145:THR:OG1	1:m:514:THR:OG1	2.27	0.50
1:n:75:TYR:OH	1:n:249:GLU:OE1	2.27	0.50
1:n:210:TYR:HE1	1:n:482:GLN:HE21	1.58	0.50
1:n:244:GLN:NE2	1:p:281:TRP:HE1	2.09	0.50
1:u:407:TRP:CZ3	1:u:410:LYS:HE2	2.46	0.50
1:v:57:ILE:HB	1:v:519:LEU:HB2	1.94	0.50
1:w:57:ILE:HB	1:w:519:LEU:HB2	1.94	0.50
1:w:244:GLN:NE2	1:x:281:TRP:HE1	2.09	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:x:117:SER:HB2	1:x:191:ASN:ND2	2.26	0.50
1:x:407:TRP:CZ3	1:x:410:LYS:HE2	2.46	0.50
1:y:280:HIS:HD2	1:y:443:ASP:OD2	1.95	0.50
1:y:342:HIS:CE1	1:7:406:ASN:CB	2.95	0.50
1:z:117:SER:HB2	1:z:191:ASN:ND2	2.26	0.50
1:7:547:LEU:HD21	1:0:530:ASN:ND2	2.26	0.50
1:B:82:ARG:HG2	1:B:86:PHE:CG	2.46	0.50
1:B:287:THR:CG2	1:B:569:MET:CG	2.90	0.50
1:C:34:GLY:HA2	1:D:37:HIS:CE1	2.46	0.50
1:C:281:TRP:HE1	1:2:244:GLN:NE2	2.09	0.50
1:D:406:ASN:CB	1:N:342:HIS:CE1	2.94	0.50
1:F:404:GLN:NE2	1:F:443:ASP:H	2.09	0.50
1:G:356:PHE:CG	1:G:405:THR:HA	2.47	0.50
1:H:280:HIS:HD2	1:H:443:ASP:OD2	1.94	0.50
1:H:387:ASP:OD1	1:H:387:ASP:N	2.43	0.50
1:H:407:TRP:CZ3	1:H:410:LYS:HE2	2.46	0.50
1:I:356:PHE:CG	1:I:405:THR:HA	2.47	0.50
1:J:407:TRP:CZ3	1:J:410:LYS:HE2	2.46	0.50
1:J:530:ASN:ND2	1:K:547:LEU:HD21	2.26	0.50
1:L:57:ILE:HB	1:L:519:LEU:HB2	1.94	0.50
1:M:468:SER:OG	1:M:471:ALA:O	2.22	0.50
1:Q:57:ILE:HB	1:Q:519:LEU:HB2	1.94	0.50
1:Q:210:TYR:HE1	1:Q:482:GLN:HE21	1.58	0.50
1:Q:356:PHE:CG	1:Q:405:THR:HA	2.47	0.50
1:U:359:ALA:HA	1:U:362:SER:HB2	1.92	0.50
1:V:280:HIS:HD2	1:V:443:ASP:OD2	1.94	0.50
1:V:339:TRP:CE3	1:V:350:ILE:HD11	2.46	0.50
1:W:319:ASP:HB3	1:W:320:PRO:HD3	1.93	0.50
1:Y:477:ASP:OD1	1:Y:478:GLY:N	2.43	0.50
1:Y:547:LEU:HD21	1:Z:530:ASN:ND2	2.26	0.50
1:Z:287:THR:CG2	1:Z:569:MET:CG	2.90	0.50
1:1:145:THR:OG1	1:1:514:THR:OG1	2.27	0.50
1:1:547:LEU:HD21	1:w:530:ASN:ND2	2.27	0.50
1:4:57:ILE:HB	1:4:519:LEU:HB2	1.94	0.50
1:4:281:TRP:HE1	1:f:244:GLN:NE2	2.09	0.50
1:4:287:THR:CG2	1:4:569:MET:CG	2.90	0.50
1:4:319:ASP:HB3	1:4:320:PRO:HD3	1.93	0.50
1:4:331:HIS:CE1	1:f:342:HIS:HD2	2.29	0.50
1:4:339:TRP:CE3	1:4:350:ILE:HD11	2.46	0.50
1:5:547:LEU:HD21	1:6:530:ASN:ND2	2.26	0.50
1:6:244:GLN:NE2	1:a:281:TRP:HE1	2.10	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:6:287:THR:CG2	1:6:569:MET:SD	2.99	0.50
1:b:57:ILE:HB	1:b:519:LEU:HB2	1.94	0.50
1:b:407:TRP:CZ3	1:b:410:LYS:HE2	2.46	0.50
1:c:244:GLN:NE2	1:e:281:TRP:HE1	2.09	0.50
1:d:319:ASP:HB3	1:d:320:PRO:HD3	1.93	0.50
1:d:339:TRP:CE3	1:d:350:ILE:HD11	2.46	0.50
1:g:280:HIS:HD2	1:g:443:ASP:OD2	1.94	0.50
1:g:406:ASN:CG	1:h:342:HIS:HE1	2.16	0.50
1:g:406:ASN:CB	1:h:342:HIS:CE1	2.94	0.50
1:h:117:SER:HB2	1:h:191:ASN:ND2	2.26	0.50
1:i:406:ASN:CB	1:j:342:HIS:CE1	2.95	0.50
1:j:57:ILE:HB	1:j:519:LEU:HB2	1.94	0.50
1:j:319:ASP:HB3	1:j:320:PRO:HD3	1.93	0.50
1:j:407:TRP:CZ3	1:j:410:LYS:HE2	2.46	0.50
1:j:477:ASP:OD1	1:j:478:GLY:N	2.43	0.50
1:m:117:SER:HB2	1:m:191:ASN:ND2	2.26	0.50
1:m:404:GLN:NE2	1:m:443:ASP:H	2.09	0.50
1:p:210:TYR:HE1	1:p:482:GLN:HE21	1.58	0.50
1:q:281:TRP:HE1	1:r:244:GLN:NE2	2.10	0.50
1:t:356:PHE:CG	1:t:405:THR:HA	2.47	0.50
1:t:468:SER:OG	1:t:471:ALA:O	2.22	0.50
1:v:356:PHE:CG	1:v:405:THR:HA	2.47	0.50
1:w:407:TRP:CZ3	1:w:410:LYS:HE2	2.46	0.50
1:x:280:HIS:HD2	1:x:443:ASP:OD2	1.94	0.50
1:y:356:PHE:CG	1:y:405:THR:HA	2.47	0.50
1:z:407:TRP:CZ3	1:z:410:LYS:HE2	2.46	0.50
1:0:407:TRP:CZ3	1:0:410:LYS:HE2	2.46	0.50
1:A:280:HIS:HD2	1:A:443:ASP:OD2	1.94	0.50
1:D:117:SER:HB2	1:D:191:ASN:ND2	2.26	0.50
1:D:281:TRP:HE1	1:N:244:GLN:NE2	2.10	0.50
1:E:287:THR:CG2	1:E:569:MET:CG	2.90	0.50
1:E:339:TRP:CE3	1:E:350:ILE:HD11	2.46	0.50
1:E:387:ASP:OD1	1:E:387:ASP:N	2.43	0.50
1:G:407:TRP:CZ3	1:G:410:LYS:HE2	2.46	0.50
1:H:37:HIS:CE1	1:I:34:GLY:HA2	2.46	0.50
1:K:280:HIS:HD2	1:K:443:ASP:OD2	1.95	0.50
1:M:319:ASP:HB3	1:M:320:PRO:HD3	1.93	0.50
1:N:82:ARG:HG2	1:N:86:PHE:CG	2.46	0.50
1:N:547:LEU:HD21	1:O:530:ASN:ND2	2.27	0.50
1:O:57:ILE:HB	1:O:519:LEU:HB2	1.94	0.50
1:O:287:THR:CG2	1:O:569:MET:CG	2.90	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:P:117:SER:HB2	1:P:191:ASN:ND2	2.26	0.50
1:P:145:THR:OG1	1:P:514:THR:OG1	2.27	0.50
1:P:287:THR:CG2	1:P:569:MET:SD	2.99	0.50
1:P:404:GLN:NE2	1:P:443:ASP:H	2.09	0.50
1:R:57:ILE:HB	1:R:519:LEU:HB2	1.94	0.50
1:R:356:PHE:CG	1:R:405:THR:HA	2.47	0.50
1:S:117:SER:HB2	1:S:191:ASN:ND2	2.27	0.50
1:V:318:SER:CB	1:5:393:GLN:HE22	2.24	0.50
1:V:407:TRP:CZ3	1:V:410:LYS:HE2	2.46	0.50
1:W:407:TRP:CZ3	1:W:410:LYS:HE2	2.46	0.50
1:X:339:TRP:CE3	1:X:350:ILE:HD11	2.46	0.50
1:3:342:HIS:HD2	1:j:331:HIS:CE1	2.29	0.50
1:4:280:HIS:HD2	1:4:443:ASP:OD2	1.94	0.50
1:5:200:ILE:HD11	1:5:203:ARG:CG	2.38	0.50
1:5:210:TYR:HE1	1:5:482:GLN:HE21	1.58	0.50
1:5:280:HIS:HD2	1:5:443:ASP:OD2	1.94	0.50
1:6:407:TRP:CZ3	1:6:410:LYS:HE2	2.46	0.50
1:a:287:THR:CG2	1:a:569:MET:CG	2.90	0.50
1:d:280:HIS:HD2	1:d:443:ASP:OD2	1.94	0.50
1:e:339:TRP:CE3	1:e:350:ILE:HD11	2.46	0.50
1:g:210:TYR:HE1	1:g:482:GLN:HE21	1.58	0.50
1:h:384:GLY:O	1:h:555:GLU:HG3	2.12	0.50
1:h:387:ASP:OD1	1:h:387:ASP:N	2.43	0.50
1:h:407:TRP:CZ3	1:h:410:LYS:HE2	2.46	0.50
1:j:280:HIS:HD2	1:j:443:ASP:OD2	1.94	0.50
1:k:287:THR:CG2	1:k:569:MET:CG	2.90	0.50
1:k:331:HIS:CE1	1:l:342:HIS:HD2	2.29	0.50
1:l:406:ASN:CB	1:m:342:HIS:CE1	2.94	0.50
1:l:407:TRP:CZ3	1:l:410:LYS:HE2	2.46	0.50
1:m:384:GLY:O	1:m:555:GLU:HG3	2.12	0.50
1:n:57:ILE:HB	1:n:519:LEU:HB2	1.94	0.50
1:n:342:HIS:CE1	1:p:406:ASN:CB	2.95	0.50
1:n:547:LEU:HD21	1:y:530:ASN:ND2	2.26	0.50
1:o:75:TYR:OH	1:o:249:GLU:OE1	2.28	0.50
1:p:200:ILE:HD11	1:p:203:ARG:CG	2.38	0.50
1:p:287:THR:CG2	1:p:569:MET:CG	2.90	0.50
1:q:406:ASN:CB	1:r:342:HIS:CE1	2.94	0.50
1:s:356:PHE:CG	1:s:405:THR:HA	2.47	0.50
1:s:404:GLN:NE2	1:s:443:ASP:H	2.09	0.50
1:t:34:GLY:HA2	1:x:37:HIS:CE1	2.46	0.50
1:u:280:HIS:HD2	1:u:443:ASP:OD2	1.94	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:u:281:TRP:HE1	1:v:244:GLN:NE2	2.10	0.50
1:w:319:ASP:HB3	1:w:320:PRO:HD3	1.93	0.50
1:x:387:ASP:OD1	1:x:387:ASP:N	2.43	0.50
1:y:244:GLN:NE2	1:7:281:TRP:HE1	2.10	0.50
1:y:331:HIS:CE1	1:z:342:HIS:HD2	2.29	0.50
1:0:280:HIS:HD2	1:0:443:ASP:OD2	1.94	0.50
1:0:339:TRP:CE3	1:0:350:ILE:HD11	2.46	0.50
1:A:319:ASP:HB3	1:A:320:PRO:HD3	1.93	0.50
1:A:406:ASN:CG	1:G:342:HIS:HE1	2.17	0.50
1:B:280:HIS:HD2	1:B:443:ASP:OD2	1.94	0.50
1:B:393:GLN:HE22	1:L:318:SER:CB	2.24	0.50
1:C:387:ASP:OD1	1:C:387:ASP:N	2.43	0.50
1:C:547:LEU:HD21	1:L:530:ASN:ND2	2.26	0.50
1:E:468:SER:OG	1:E:471:ALA:O	2.21	0.50
1:F:34:GLY:HA2	1:R:37:HIS:CE1	2.45	0.50
1:F:280:HIS:HD2	1:F:443:ASP:OD2	1.94	0.50
1:H:318:SER:CB	1:W:393:GLN:HE22	2.24	0.50
1:H:339:TRP:CE3	1:H:350:ILE:HD11	2.46	0.50
1:H:468:SER:OG	1:H:471:ALA:O	2.22	0.50
1:I:404:GLN:NE2	1:I:443:ASP:H	2.09	0.50
1:J:331:HIS:CE1	1:L:342:HIS:HD2	2.29	0.50
1:K:57:ILE:HB	1:K:519:LEU:HB2	1.94	0.50
1:K:200:ILE:HD11	1:K:203:ARG:CG	2.38	0.50
1:K:210:TYR:HE1	1:K:482:GLN:HE21	1.58	0.50
1:M:339:TRP:CE3	1:M:350:ILE:HD11	2.46	0.50
1:M:407:TRP:CZ3	1:M:410:LYS:HE2	2.46	0.50
1:O:393:GLN:HE22	1:h:318:SER:CB	2.24	0.50
1:O:407:TRP:CZ3	1:O:410:LYS:HE2	2.46	0.50
1:P:287:THR:CG2	1:P:569:MET:CG	2.90	0.50
1:R:406:ASN:CB	1:S:342:HIS:CE1	2.94	0.50
1:S:327:VAL:HG13	1:U:192:MET:SD	2.50	0.50
1:S:356:PHE:CG	1:S:405:THR:HA	2.47	0.50
1:T:319:ASP:HB3	1:T:320:PRO:HD3	1.93	0.50
1:T:342:HIS:CE1	1:f:406:ASN:CB	2.95	0.50
1:2:280:HIS:HD2	1:2:443:ASP:OD2	1.94	0.50
1:2:339:TRP:CE3	1:2:350:ILE:HD11	2.46	0.50
1:3:244:GLN:NE2	1:j:281:TRP:HE1	2.09	0.50
1:3:342:HIS:CE1	1:j:406:ASN:CB	2.95	0.50
1:3:356:PHE:CG	1:3:405:THR:HA	2.47	0.50
1:3:406:ASN:CB	1:i:342:HIS:CE1	2.94	0.50
1:4:117:SER:HB2	1:4:191:ASN:ND2	2.27	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:4:387:ASP:OD1	1:4:387:ASP:N	2.43	0.50
1:5:57:ILE:HB	1:5:519:LEU:HB2	1.94	0.50
1:a:244:GLN:NE2	1:b:281:TRP:HE1	2.09	0.50
1:c:280:HIS:HD2	1:c:443:ASP:OD2	1.94	0.50
1:d:287:THR:CG2	1:d:569:MET:CG	2.90	0.50
1:d:407:TRP:CZ3	1:d:410:LYS:HE2	2.46	0.50
1:e:200:ILE:HD11	1:e:203:ARG:CG	2.38	0.50
1:e:387:ASP:OD1	1:e:387:ASP:N	2.43	0.50
1:f:57:ILE:HB	1:f:519:LEU:HB2	1.94	0.50
1:f:356:PHE:CG	1:f:405:THR:HA	2.47	0.50
1:i:281:TRP:HE1	1:j:244:GLN:NE2	2.10	0.50
1:j:117:SER:HB2	1:j:191:ASN:ND2	2.27	0.50
1:j:404:GLN:NE2	1:j:443:ASP:H	2.09	0.50
1:k:57:ILE:HB	1:k:519:LEU:HB2	1.94	0.50
1:k:404:GLN:NE2	1:k:443:ASP:H	2.09	0.50
1:k:407:TRP:CZ3	1:k:410:LYS:HE2	2.46	0.50
1:k:530:ASN:ND2	1:r:547:LEU:HD21	2.27	0.50
1:l:210:TYR:HE1	1:l:482:GLN:HE21	1.58	0.50
1:l:359:ALA:HA	1:l:362:SER:HB2	1.92	0.50
1:l:406:ASN:CG	1:m:342:HIS:HE1	2.16	0.50
1:m:280:HIS:HD2	1:m:443:ASP:OD2	1.94	0.50
1:m:407:TRP:CZ3	1:m:410:LYS:HE2	2.46	0.50
1:n:356:PHE:CG	1:n:405:THR:HA	2.47	0.50
1:o:210:TYR:HE1	1:o:482:GLN:HE21	1.58	0.50
1:o:404:GLN:NE2	1:o:443:ASP:H	2.09	0.50
1:p:387:ASP:OD1	1:p:387:ASP:N	2.43	0.50
1:q:57:ILE:HB	1:q:519:LEU:HB2	1.94	0.50
1:r:57:ILE:HB	1:r:519:LEU:HB2	1.94	0.50
1:r:82:ARG:HG2	1:r:86:PHE:CG	2.46	0.50
1:s:117:SER:HB2	1:s:191:ASN:ND2	2.27	0.50
1:s:287:THR:CG2	1:s:569:MET:CG	2.90	0.50
1:t:393:GLN:NE2	1:v:318:SER:HB2	2.27	0.50
1:u:406:ASN:CB	1:v:342:HIS:CE1	2.95	0.50
1:v:407:TRP:CZ3	1:v:410:LYS:HE2	2.46	0.50
1:v:530:ASN:ND2	1:x:547:LEU:HD21	2.26	0.50
1:x:339:TRP:CE3	1:x:350:ILE:HD11	2.46	0.50
1:y:57:ILE:HB	1:y:519:LEU:HB2	1.94	0.50
1:y:406:ASN:CB	1:z:342:HIS:CE1	2.95	0.50
1:z:327:VAL:HG13	1:7:192:MET:SD	2.50	0.50
1:7:359:ALA:HA	1:7:362:SER:HB2	1.92	0.50
1:7:530:ASN:ND2	1:0:547:LEU:HD21	2.26	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:244:GLN:NE2	1:L:281:TRP:HE1	2.09	0.50
1:B:384:GLY:O	1:B:555:GLU:HG3	2.12	0.50
1:C:339:TRP:CE3	1:C:350:ILE:HD11	2.46	0.50
1:F:210:TYR:HE1	1:F:482:GLN:HE21	1.58	0.50
1:G:318:SER:HB2	1:I:393:GLN:NE2	2.27	0.50
1:G:387:ASP:OD1	1:G:387:ASP:N	2.43	0.50
1:G:468:SER:OG	1:G:471:ALA:O	2.21	0.50
1:H:342:HIS:CE1	1:Y:406:ASN:CB	2.94	0.50
1:H:356:PHE:CG	1:H:405:THR:HA	2.47	0.50
1:K:318:SER:HB2	1:1:393:GLN:NE2	2.27	0.50
1:K:356:PHE:CG	1:K:405:THR:HA	2.47	0.50
1:K:461:THR:HB	1:0:442:VAL:O	2.12	0.50
1:M:287:THR:CG2	1:M:569:MET:CG	2.90	0.50
1:M:356:PHE:CG	1:M:405:THR:HA	2.47	0.50
1:N:57:ILE:HB	1:N:519:LEU:HB2	1.94	0.50
1:O:342:HIS:CE1	1:h:406:ASN:CB	2.95	0.50
1:P:356:PHE:CG	1:P:405:THR:HA	2.47	0.50
1:Q:117:SER:HB2	1:Q:191:ASN:ND2	2.26	0.50
1:R:318:SER:HB2	1:S:393:GLN:NE2	2.27	0.50
1:R:393:GLN:NE2	1:U:318:SER:HB2	2.27	0.50
1:S:404:GLN:NE2	1:S:443:ASP:H	2.09	0.50
1:U:37:HIS:CE1	1:5:34:GLY:HA2	2.45	0.50
1:U:141:HIS:CE1	1:U:518:ILE:HD12	2.47	0.50
1:U:384:GLY:O	1:U:555:GLU:HG3	2.12	0.50
1:V:287:THR:CG2	1:V:569:MET:CG	2.90	0.50
1:V:319:ASP:HB3	1:V:320:PRO:HD3	1.93	0.50
1:V:442:VAL:O	1:5:461:THR:HB	2.12	0.50
1:W:468:SER:OG	1:W:471:ALA:O	2.22	0.50
1:X:287:THR:CG2	1:X:569:MET:CG	2.90	0.50
1:X:393:GLN:NE2	1:5:318:SER:HB2	2.27	0.50
1:Z:406:ASN:CB	1:x:342:HIS:CE1	2.94	0.50
1:1:287:THR:CG2	1:1:569:MET:CG	2.90	0.50
1:3:57:ILE:HB	1:3:519:LEU:HB2	1.94	0.50
1:3:200:ILE:HD11	1:3:203:ARG:CG	2.38	0.50
1:3:393:GLN:HE22	1:j:318:SER:CB	2.23	0.50
1:4:356:PHE:CG	1:4:405:THR:HA	2.47	0.50
1:4:406:ASN:CB	1:f:342:HIS:CE1	2.95	0.50
1:4:477:ASP:OD1	1:4:478:GLY:N	2.43	0.50
1:a:384:GLY:O	1:a:555:GLU:HG3	2.12	0.50
1:c:339:TRP:CE3	1:c:350:ILE:HD11	2.46	0.50
1:g:407:TRP:CZ3	1:g:410:LYS:HE2	2.46	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:h:280:HIS:HD2	1:h:443:ASP:OD2	1.94	0.50
1:j:387:ASP:OD1	1:j:387:ASP:N	2.43	0.50
1:k:319:ASP:HB3	1:k:320:PRO:HD3	1.93	0.50
1:k:342:HIS:CE1	1:m:406:ASN:CB	2.95	0.50
1:k:393:GLN:HE22	1:m:318:SER:CB	2.24	0.50
1:m:387:ASP:OD1	1:m:387:ASP:N	2.43	0.50
1:n:281:TRP:HE1	1:o:244:GLN:NE2	2.09	0.50
1:n:318:SER:HB2	1:o:393:GLN:NE2	2.27	0.50
1:n:530:ASN:ND2	1:y:547:LEU:HD21	2.26	0.50
1:o:280:HIS:HD2	1:o:443:ASP:OD2	1.94	0.50
1:q:117:SER:HB2	1:q:191:ASN:ND2	2.26	0.50
1:s:145:THR:OG1	1:s:514:THR:OG1	2.27	0.50
1:s:287:THR:CG2	1:s:569:MET:SD	2.99	0.50
1:w:468:SER:OG	1:w:471:ALA:O	2.22	0.50
1:x:356:PHE:CG	1:x:405:THR:HA	2.47	0.50
1:y:406:ASN:CG	1:z:342:HIS:HE1	2.16	0.50
1:y:407:TRP:CZ3	1:y:410:LYS:HE2	2.46	0.50
1:z:356:PHE:CG	1:z:405:THR:HA	2.47	0.50
1:7:141:HIS:CE1	1:7:518:ILE:HD12	2.47	0.50
1:7:384:GLY:O	1:7:555:GLU:HG3	2.12	0.50
1:0:57:ILE:HB	1:0:519:LEU:HB2	1.94	0.50
1:0:287:THR:CG2	1:0:569:MET:CG	2.90	0.50
1:B:342:HIS:CE1	1:L:406:ASN:CB	2.95	0.50
1:B:461:THR:HB	1:L:442:VAL:O	2.12	0.50
1:C:200:ILE:HD11	1:C:203:ARG:CG	2.38	0.50
1:D:57:ILE:HB	1:D:519:LEU:HB2	1.94	0.50
1:D:342:HIS:CE1	1:P:406:ASN:CB	2.95	0.50
1:D:342:HIS:HE1	1:P:406:ASN:CG	2.16	0.50
1:E:406:ASN:CB	1:Q:342:HIS:HE1	2.24	0.50
1:E:407:TRP:CZ3	1:E:410:LYS:HE2	2.46	0.50
1:F:384:GLY:O	1:F:555:GLU:HG3	2.12	0.50
1:G:530:ASN:ND2	1:H:547:LEU:HD21	2.26	0.50
1:I:287:THR:CG2	1:I:569:MET:CG	2.90	0.50
1:J:406:ASN:CG	1:L:342:HIS:HE1	2.16	0.50
1:J:406:ASN:CB	1:L:342:HIS:CE1	2.95	0.50
1:K:34:GLY:HA2	1:7:37:HIS:CE1	2.45	0.50
1:K:393:GLN:HE22	1:0:318:SER:CB	2.24	0.50
1:L:117:SER:HB2	1:L:191:ASN:ND2	2.26	0.50
1:M:141:HIS:CE1	1:M:518:ILE:HD12	2.47	0.50
1:M:384:GLY:O	1:M:555:GLU:HG3	2.12	0.50
1:O:319:ASP:HB3	1:O:320:PRO:HD3	1.93	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:R:141:HIS:CE1	1:R:518:ILE:HD12	2.47	0.50
1:R:331:HIS:CE1	1:S:342:HIS:HD2	2.29	0.50
1:R:406:ASN:CG	1:S:342:HIS:HE1	2.17	0.50
1:S:37:HIS:CE1	1:4:34:GLY:HA2	2.46	0.50
1:S:281:TRP:HE1	1:U:244:GLN:NE2	2.10	0.50
1:S:530:ASN:ND2	1:T:547:LEU:HD21	2.26	0.50
1:T:141:HIS:CE1	1:T:518:ILE:HD12	2.47	0.50
1:T:280:HIS:HD2	1:T:443:ASP:OD2	1.94	0.50
1:T:281:TRP:HE1	1:4:244:GLN:NE2	2.10	0.50
1:V:57:ILE:HB	1:V:519:LEU:HB2	1.94	0.50
1:V:342:HIS:CE1	1:X:406:ASN:CB	2.95	0.50
1:W:356:PHE:CG	1:W:405:THR:HA	2.47	0.50
1:W:384:GLY:O	1:W:555:GLU:HG3	2.12	0.50
1:X:387:ASP:OD1	1:X:387:ASP:N	2.43	0.50
1:1:406:ASN:CB	1:0:342:HIS:CE1	2.95	0.50
1:2:141:HIS:CE1	1:2:518:ILE:HD12	2.47	0.50
1:3:141:HIS:CE1	1:3:518:ILE:HD12	2.47	0.50
1:3:393:GLN:NE2	1:j:318:SER:HB2	2.27	0.50
1:4:404:GLN:NE2	1:4:443:ASP:H	2.09	0.50
1:5:356:PHE:CG	1:5:405:THR:HA	2.47	0.50
1:a:280:HIS:HD2	1:a:443:ASP:OD2	1.94	0.50
1:a:393:GLN:HE22	1:b:318:SER:CB	2.24	0.50
1:a:461:THR:HB	1:b:442:VAL:O	2.12	0.50
1:c:141:HIS:CE1	1:c:518:ILE:HD12	2.47	0.50
1:d:141:HIS:CE1	1:d:518:ILE:HD12	2.47	0.50
1:d:356:PHE:CG	1:d:405:THR:HA	2.47	0.50
1:d:384:GLY:O	1:d:555:GLU:HG3	2.12	0.50
1:f:141:HIS:CE1	1:f:518:ILE:HD12	2.47	0.50
1:f:200:ILE:HD11	1:f:203:ARG:CG	2.38	0.50
1:g:57:ILE:HB	1:g:519:LEU:HB2	1.94	0.50
1:g:359:ALA:HA	1:g:362:SER:HB2	1.92	0.50
1:i:141:HIS:CE1	1:i:518:ILE:HD12	2.47	0.50
1:i:280:HIS:HD2	1:i:443:ASP:OD2	1.94	0.50
1:i:319:ASP:HB3	1:i:320:PRO:HD3	1.93	0.50
1:i:356:PHE:CG	1:i:405:THR:HA	2.47	0.50
1:i:547:LEU:HD21	1:z:530:ASN:ND2	2.26	0.50
1:j:356:PHE:CG	1:j:405:THR:HA	2.47	0.50
1:l:57:ILE:HB	1:l:519:LEU:HB2	1.94	0.50
1:q:141:HIS:CE1	1:q:518:ILE:HD12	2.47	0.50
1:q:342:HIS:CE1	1:s:406:ASN:CB	2.95	0.50
1:q:461:THR:HB	1:s:442:VAL:O	2.12	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:t:404:GLN:NE2	1:t:443:ASP:H	2.09	0.50
1:u:319:ASP:HB3	1:u:320:PRO:HD3	1.93	0.50
1:v:387:ASP:OD1	1:v:387:ASP:N	2.43	0.50
1:v:468:SER:OG	1:v:471:ALA:O	2.21	0.50
1:w:356:PHE:CG	1:w:405:THR:HA	2.47	0.50
1:w:387:ASP:OD1	1:w:387:ASP:N	2.43	0.50
1:w:393:GLN:HE22	1:x:318:SER:CB	2.24	0.50
1:x:75:TYR:OH	1:x:249:GLU:OE1	2.28	0.50
1:y:318:SER:HB2	1:z:393:GLN:NE2	2.27	0.50
1:y:393:GLN:NE2	1:7:318:SER:HB2	2.27	0.50
1:z:281:TRP:HE1	1:7:244:GLN:NE2	2.10	0.50
1:z:404:GLN:NE2	1:z:443:ASP:H	2.09	0.50
1:z:477:ASP:OD1	1:z:478:GLY:N	2.43	0.50
1:7:468:SER:OG	1:7:471:ALA:O	2.22	0.50
1:A:117:SER:HB2	1:A:191:ASN:ND2	2.26	0.50
1:C:141:HIS:CE1	1:C:518:ILE:HD12	2.47	0.50
1:D:141:HIS:CE1	1:D:518:ILE:HD12	2.47	0.50
1:D:393:GLN:HE22	1:P:318:SER:CB	2.24	0.50
1:D:442:VAL:O	1:N:461:THR:HB	2.12	0.50
1:D:461:THR:HB	1:P:442:VAL:O	2.12	0.50
1:E:117:SER:HB2	1:E:191:ASN:ND2	2.26	0.50
1:F:37:HIS:CE1	1:G:34:GLY:HA2	2.46	0.50
1:F:57:ILE:HB	1:F:519:LEU:HB2	1.94	0.50
1:I:280:HIS:HD2	1:I:443:ASP:OD2	1.94	0.50
1:I:339:TRP:CE3	1:I:350:ILE:HD11	2.46	0.50
1:I:384:GLY:O	1:I:555:GLU:HG3	2.12	0.50
1:J:210:TYR:HE1	1:J:482:GLN:HE21	1.58	0.50
1:J:319:ASP:HB3	1:J:320:PRO:HD3	1.93	0.50
1:K:406:ASN:CB	1:1:342:HIS:CE1	2.94	0.50
1:N:141:HIS:CE1	1:N:518:ILE:HD12	2.47	0.50
1:O:404:GLN:NE2	1:O:443:ASP:H	2.09	0.50
1:Q:280:HIS:HD2	1:Q:443:ASP:OD2	1.94	0.50
1:R:407:TRP:CZ3	1:R:410:LYS:HE2	2.46	0.50
1:S:477:ASP:OD1	1:S:478:GLY:N	2.43	0.50
1:T:356:PHE:CG	1:T:405:THR:HA	2.47	0.50
1:V:477:ASP:OD1	1:V:478:GLY:N	2.43	0.50
1:W:280:HIS:HD2	1:W:443:ASP:OD2	1.94	0.50
1:W:287:THR:CG2	1:W:569:MET:CG	2.90	0.50
1:X:37:HIS:CE1	1:Y:34:GLY:HA2	2.47	0.50
1:Y:141:HIS:CE1	1:Y:518:ILE:HD12	2.47	0.50
1:Z:34:GLY:HA2	1:1:37:HIS:CE1	2.47	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Z:141:HIS:CE1	1:Z:518:ILE:HD12	2.47	0.50
1:1:387:ASP:OD1	1:1:387:ASP:N	2.43	0.50
1:2:57:ILE:HB	1:2:519:LEU:HB2	1.94	0.50
1:3:287:THR:CG2	1:3:569:MET:CG	2.90	0.50
1:4:318:SER:CB	1:f:393:GLN:HE22	2.23	0.50
1:6:281:TRP:HE1	1:b:244:GLN:NE2	2.10	0.50
1:a:342:HIS:CE1	1:b:406:ASN:CB	2.95	0.50
1:b:117:SER:HB2	1:b:191:ASN:ND2	2.27	0.50
1:b:141:HIS:CE1	1:b:518:ILE:HD12	2.47	0.50
1:c:57:ILE:HB	1:c:519:LEU:HB2	1.94	0.50
1:c:318:SER:HB2	1:d:393:GLN:NE2	2.27	0.50
1:e:384:GLY:O	1:e:555:GLU:HG3	2.12	0.50
1:j:108:THR:HG22	1:j:210:TYR:O	2.12	0.50
1:l:141:HIS:CE1	1:l:518:ILE:HD12	2.47	0.50
1:n:117:SER:HB2	1:n:191:ASN:ND2	2.27	0.50
1:o:57:ILE:HB	1:o:519:LEU:HB2	1.94	0.50
1:p:407:TRP:CZ3	1:p:410:LYS:HE2	2.46	0.50
1:q:331:HIS:CE1	1:r:342:HIS:HD2	2.29	0.50
1:q:342:HIS:HE1	1:s:406:ASN:CG	2.16	0.50
1:q:442:VAL:O	1:r:461:THR:HB	2.12	0.50
1:r:75:TYR:OH	1:r:249:GLU:OE1	2.28	0.50
1:r:384:GLY:O	1:r:555:GLU:HG3	2.12	0.50
1:t:280:HIS:HD2	1:t:443:ASP:OD2	1.94	0.50
1:t:287:THR:CG2	1:t:569:MET:CG	2.90	0.50
1:w:384:GLY:O	1:w:555:GLU:HG3	2.12	0.50
1:y:141:HIS:CE1	1:y:518:ILE:HD12	2.47	0.50
1:0:319:ASP:HB3	1:0:320:PRO:HD3	1.93	0.50
1:0:384:GLY:O	1:0:555:GLU:HG3	2.12	0.50
1:A:287:THR:CG2	1:A:569:MET:CG	2.90	0.49
1:A:331:HIS:CE1	1:G:342:HIS:HD2	2.30	0.49
1:A:530:ASN:ND2	1:F:547:LEU:HD21	2.26	0.49
1:B:141:HIS:CE1	1:B:518:ILE:HD12	2.47	0.49
1:B:393:GLN:NE2	1:L:318:SER:HB2	2.27	0.49
1:C:280:HIS:HD2	1:C:443:ASP:OD2	1.95	0.49
1:C:318:SER:HB2	1:2:393:GLN:NE2	2.27	0.49
1:C:384:GLY:O	1:C:555:GLU:HG3	2.12	0.49
1:C:404:GLN:NE2	1:C:443:ASP:H	2.09	0.49
1:C:406:ASN:CB	1:2:342:HIS:CE1	2.94	0.49
1:D:404:GLN:NE2	1:D:443:ASP:H	2.09	0.49
1:H:75:TYR:OH	1:H:249:GLU:OE1	2.28	0.49
1:J:281:TRP:HE1	1:L:244:GLN:NE2	2.10	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:141:HIS:CE1	1:L:518:ILE:HD12	2.47	0.49
1:L:335:SER:H	1:L:435:THR:CG2	2.13	0.49
1:M:393:GLN:NE2	1:2:318:SER:HB2	2.27	0.49
1:N:75:TYR:OH	1:N:249:GLU:OE1	2.27	0.49
1:N:280:HIS:HD2	1:N:443:ASP:OD2	1.94	0.49
1:N:384:GLY:O	1:N:555:GLU:HG3	2.12	0.49
1:O:461:THR:HB	1:h:442:VAL:O	2.12	0.49
1:Q:384:GLY:O	1:Q:555:GLU:HG3	2.12	0.49
1:U:530:ASN:ND2	1:V:547:LEU:HD21	2.26	0.49
1:V:384:GLY:O	1:V:555:GLU:HG3	2.12	0.49
1:W:387:ASP:OD1	1:W:387:ASP:N	2.43	0.49
1:X:86:PHE:CG	1:X:87:PRO:HD2	2.47	0.49
1:X:342:HIS:CE1	1:5:406:ASN:CB	2.94	0.49
1:X:342:HIS:HE1	1:5:406:ASN:CG	2.16	0.49
1:2:117:SER:HB2	1:2:191:ASN:ND2	2.27	0.49
1:3:82:ARG:HG2	1:3:86:PHE:CG	2.46	0.49
1:3:318:SER:HB2	1:i:393:GLN:NE2	2.27	0.49
1:3:342:HIS:HE1	1:j:406:ASN:CG	2.16	0.49
1:3:461:THR:HB	1:j:442:VAL:O	2.12	0.49
1:4:108:THR:HG22	1:4:210:TYR:O	2.13	0.49
1:4:318:SER:HB2	1:f:393:GLN:NE2	2.27	0.49
1:4:406:ASN:CG	1:f:342:HIS:HE1	2.16	0.49
1:4:442:VAL:O	1:f:461:THR:HB	2.12	0.49
1:5:75:TYR:OH	1:5:249:GLU:OE1	2.27	0.49
1:6:57:ILE:HB	1:6:519:LEU:HB2	1.94	0.49
1:6:210:TYR:HE1	1:6:482:GLN:HE21	1.58	0.49
1:6:406:ASN:CB	1:b:342:HIS:CE1	2.95	0.49
1:a:393:GLN:NE2	1:b:318:SER:HB2	2.27	0.49
1:b:335:SER:H	1:b:435:THR:CG2	2.13	0.49
1:c:117:SER:HB2	1:c:191:ASN:ND2	2.27	0.49
1:f:287:THR:CG2	1:f:569:MET:CG	2.90	0.49
1:g:141:HIS:CE1	1:g:518:ILE:HD12	2.47	0.49
1:g:287:THR:CG2	1:g:569:MET:CG	2.90	0.49
1:h:57:ILE:HB	1:h:519:LEU:HB2	1.94	0.49
1:k:461:THR:HB	1:m:442:VAL:O	2.12	0.49
1:m:57:ILE:HB	1:m:519:LEU:HB2	1.94	0.49
1:n:280:HIS:HD2	1:n:443:ASP:OD2	1.95	0.49
1:o:37:HIS:CE1	1:v:34:GLY:HA2	2.46	0.49
1:o:318:SER:HB2	1:p:393:GLN:NE2	2.27	0.49
1:o:384:GLY:O	1:o:555:GLU:HG3	2.12	0.49
1:p:117:SER:HB2	1:p:191:ASN:ND2	2.27	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:q:393:GLN:HE22	1:s:318:SER:CB	2.24	0.49
1:r:141:HIS:CE1	1:r:518:ILE:HD12	2.47	0.49
1:t:339:TRP:CE3	1:t:350:ILE:HD11	2.46	0.49
1:t:384:GLY:O	1:t:555:GLU:HG3	2.12	0.49
1:u:117:SER:HB2	1:u:191:ASN:ND2	2.27	0.49
1:u:141:HIS:CE1	1:u:518:ILE:HD12	2.47	0.49
1:u:287:THR:CG2	1:u:569:MET:CG	2.90	0.49
1:w:287:THR:CG2	1:w:569:MET:CG	2.90	0.49
1:x:468:SER:OG	1:x:471:ALA:O	2.22	0.49
1:y:86:PHE:CG	1:y:87:PRO:HD2	2.47	0.49
1:0:356:PHE:CG	1:0:405:THR:HA	2.47	0.49
1:A:141:HIS:CE1	1:A:518:ILE:HD12	2.47	0.49
1:B:200:ILE:HD11	1:B:203:ARG:CG	2.38	0.49
1:B:342:HIS:HD2	1:L:331:HIS:CE1	2.29	0.49
1:D:108:THR:HG22	1:D:210:TYR:O	2.12	0.49
1:D:318:SER:HB2	1:N:393:GLN:NE2	2.27	0.49
1:D:331:HIS:CE1	1:N:342:HIS:HD2	2.29	0.49
1:D:384:GLY:O	1:D:555:GLU:HG3	2.12	0.49
1:F:141:HIS:CE1	1:F:518:ILE:HD12	2.47	0.49
1:G:108:THR:HG22	1:G:210:TYR:O	2.12	0.49
1:I:141:HIS:CE1	1:I:518:ILE:HD12	2.47	0.49
1:J:57:ILE:HB	1:J:519:LEU:HB2	1.94	0.49
1:K:117:SER:HB2	1:K:191:ASN:ND2	2.26	0.49
1:L:287:THR:CG2	1:L:569:MET:CG	2.90	0.49
1:O:335:SER:H	1:O:435:THR:CG2	2.13	0.49
1:P:57:ILE:HB	1:P:519:LEU:HB2	1.93	0.49
1:P:156:LYS:HD3	1:P:165:THR:HG22	1.95	0.49
1:R:86:PHE:CG	1:R:87:PRO:HD2	2.48	0.49
1:R:384:GLY:O	1:R:555:GLU:HG3	2.12	0.49
1:S:141:HIS:CE1	1:S:518:ILE:HD12	2.47	0.49
1:S:331:HIS:CE1	1:U:342:HIS:HD2	2.29	0.49
1:S:384:GLY:O	1:S:555:GLU:HG3	2.12	0.49
1:T:86:PHE:CG	1:T:87:PRO:HD2	2.47	0.49
1:U:280:HIS:HD2	1:U:443:ASP:OD2	1.94	0.49
1:U:287:THR:CG2	1:U:569:MET:CG	2.90	0.49
1:V:141:HIS:CE1	1:V:518:ILE:HD12	2.47	0.49
1:V:356:PHE:CG	1:V:405:THR:HA	2.47	0.49
1:W:86:PHE:CG	1:W:87:PRO:HD2	2.48	0.49
1:W:141:HIS:CE1	1:W:518:ILE:HD12	2.47	0.49
1:W:318:SER:HB2	1:Y:393:GLN:NE2	2.26	0.49
1:Y:359:ALA:HA	1:Y:362:SER:HB2	1.92	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Y:384:GLY:O	1:Y:555:GLU:HG3	2.12	0.49
1:Z:318:SER:HB2	1:x:393:GLN:NE2	2.26	0.49
1:Z:339:TRP:CE3	1:Z:350:ILE:HD11	2.46	0.49
1:Z:384:GLY:O	1:Z:555:GLU:HG3	2.12	0.49
1:1:86:PHE:CG	1:1:87:PRO:HD2	2.48	0.49
1:1:384:GLY:O	1:1:555:GLU:HG3	2.12	0.49
1:4:86:PHE:CG	1:4:87:PRO:HD2	2.47	0.49
1:5:287:THR:CG2	1:5:569:MET:CG	2.90	0.49
1:6:319:ASP:HB3	1:6:320:PRO:HD3	1.93	0.49
1:a:86:PHE:CG	1:a:87:PRO:HD2	2.47	0.49
1:a:141:HIS:CE1	1:a:518:ILE:HD12	2.47	0.49
1:c:86:PHE:CG	1:c:87:PRO:HD2	2.47	0.49
1:c:342:HIS:CE1	1:e:406:ASN:CB	2.95	0.49
1:c:359:ALA:HA	1:c:362:SER:HB2	1.92	0.49
1:e:141:HIS:CE1	1:e:518:ILE:HD12	2.47	0.49
1:e:280:HIS:HD2	1:e:443:ASP:OD2	1.95	0.49
1:f:82:ARG:HG2	1:f:86:PHE:CG	2.46	0.49
1:j:86:PHE:CG	1:j:87:PRO:HD2	2.47	0.49
1:k:356:PHE:CG	1:k:405:THR:HA	2.47	0.49
1:n:384:GLY:O	1:n:555:GLU:HG3	2.12	0.49
1:p:280:HIS:HD2	1:p:443:ASP:OD2	1.94	0.49
1:q:108:THR:HG22	1:q:210:TYR:O	2.13	0.49
1:q:384:GLY:O	1:q:555:GLU:HG3	2.12	0.49
1:r:108:THR:HG22	1:r:210:TYR:O	2.13	0.49
1:r:280:HIS:HD2	1:r:443:ASP:OD2	1.94	0.49
1:s:280:HIS:HD2	1:s:443:ASP:OD2	1.94	0.49
1:t:359:ALA:HA	1:t:362:SER:HB2	1.92	0.49
1:t:406:ASN:CB	1:u:342:HIS:CE1	2.94	0.49
1:w:86:PHE:CG	1:w:87:PRO:HD2	2.48	0.49
1:w:141:HIS:CE1	1:w:518:ILE:HD12	2.47	0.49
1:w:280:HIS:HD2	1:w:443:ASP:OD2	1.94	0.49
1:z:384:GLY:O	1:z:555:GLU:HG3	2.12	0.49
1:7:280:HIS:HD2	1:7:443:ASP:OD2	1.95	0.49
1:7:287:THR:CG2	1:7:569:MET:CG	2.90	0.49
1:0:117:SER:HB2	1:0:191:ASN:ND2	2.26	0.49
1:0:141:HIS:CE1	1:0:518:ILE:HD12	2.47	0.49
1:0:477:ASP:OD1	1:0:478:GLY:N	2.43	0.49
1:A:34:GLY:HA2	1:B:37:HIS:CE1	2.48	0.49
1:B:86:PHE:CG	1:B:87:PRO:HD2	2.47	0.49
1:C:342:HIS:CE1	1:M:406:ASN:CB	2.95	0.49
1:E:156:LYS:HD3	1:E:165:THR:HG22	1.95	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:280:HIS:HD2	1:E:443:ASP:OD2	1.94	0.49
1:F:117:SER:HB2	1:F:191:ASN:ND2	2.26	0.49
1:F:287:THR:CG2	1:F:569:MET:CG	2.90	0.49
1:F:356:PHE:CG	1:F:405:THR:HA	2.47	0.49
1:H:57:ILE:HB	1:H:519:LEU:HB2	1.94	0.49
1:H:108:THR:HG22	1:H:210:TYR:O	2.13	0.49
1:H:393:GLN:NE2	1:Y:318:SER:HB2	2.26	0.49
1:H:442:VAL:O	1:W:461:THR:HB	2.12	0.49
1:I:57:ILE:HB	1:I:519:LEU:HB2	1.94	0.49
1:I:359:ALA:HA	1:I:362:SER:HB2	1.92	0.49
1:I:387:ASP:OD1	1:I:387:ASP:N	2.43	0.49
1:K:75:TYR:OH	1:K:249:GLU:OE1	2.27	0.49
1:K:287:THR:CG2	1:K:569:MET:CG	2.90	0.49
1:K:384:GLY:O	1:K:555:GLU:HG3	2.12	0.49
1:K:442:VAL:O	1:1:461:THR:HB	2.12	0.49
1:L:356:PHE:CG	1:L:405:THR:HA	2.47	0.49
1:N:108:THR:HG22	1:N:210:TYR:O	2.13	0.49
1:N:117:SER:HB2	1:N:191:ASN:ND2	2.26	0.49
1:T:393:GLN:NE2	1:f:318:SER:HB2	2.27	0.49
1:W:339:TRP:CE3	1:W:350:ILE:HD11	2.46	0.49
1:X:108:THR:HG22	1:X:210:TYR:O	2.13	0.49
1:X:335:SER:H	1:X:435:THR:CG2	2.13	0.49
1:X:384:GLY:O	1:X:555:GLU:HG3	2.12	0.49
1:X:461:THR:HB	1:5:442:VAL:O	2.12	0.49
1:Y:117:SER:HB2	1:Y:191:ASN:ND2	2.26	0.49
1:Y:339:TRP:CE3	1:Y:350:ILE:HD11	2.46	0.49
1:Y:356:PHE:CG	1:Y:405:THR:HA	2.47	0.49
1:Z:117:SER:HB2	1:Z:191:ASN:ND2	2.26	0.49
1:Z:356:PHE:CG	1:Z:405:THR:HA	2.47	0.49
1:Z:359:ALA:HA	1:Z:362:SER:HB2	1.92	0.49
1:1:108:THR:HG22	1:1:210:TYR:O	2.13	0.49
1:1:318:SER:HB2	1:0:393:GLN:NE2	2.27	0.49
1:2:86:PHE:CG	1:2:87:PRO:HD2	2.48	0.49
1:5:117:SER:HB2	1:5:191:ASN:ND2	2.26	0.49
1:a:342:HIS:HD2	1:b:331:HIS:CE1	2.29	0.49
1:c:393:GLN:NE2	1:e:318:SER:HB2	2.27	0.49
1:d:442:VAL:O	1:e:461:THR:HB	2.13	0.49
1:e:404:GLN:NE2	1:e:443:ASP:H	2.09	0.49
1:h:86:PHE:CG	1:h:87:PRO:HD2	2.48	0.49
1:j:156:LYS:HD3	1:j:165:THR:HG22	1.95	0.49
1:l:287:THR:CG2	1:l:569:MET:CG	2.90	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:o:117:SER:HB2	1:o:191:ASN:ND2	2.26	0.49
1:o:141:HIS:CE1	1:o:518:ILE:HD12	2.47	0.49
1:o:287:THR:CG2	1:o:569:MET:CG	2.90	0.49
1:p:156:LYS:HD3	1:p:165:THR:HG22	1.95	0.49
1:q:404:GLN:NE2	1:q:443:ASP:H	2.09	0.49
1:r:117:SER:HB2	1:r:191:ASN:ND2	2.27	0.49
1:t:141:HIS:CE1	1:t:518:ILE:HD12	2.47	0.49
1:u:289:SER:HA	1:v:188:VAL:CG2	2.43	0.49
1:v:108:THR:HG22	1:v:210:TYR:O	2.13	0.49
1:w:339:TRP:CE3	1:w:350:ILE:HD11	2.46	0.49
1:x:108:THR:HG22	1:x:210:TYR:O	2.13	0.49
1:y:384:GLY:O	1:y:555:GLU:HG3	2.12	0.49
1:z:141:HIS:CE1	1:z:518:ILE:HD12	2.47	0.49
1:z:331:HIS:CE1	1:7:342:HIS:HD2	2.29	0.49
1:A:318:SER:HB2	1:G:393:GLN:NE2	2.27	0.49
1:A:359:ALA:HA	1:A:362:SER:HB2	1.92	0.49
1:A:477:ASP:OD1	1:A:478:GLY:N	2.43	0.49
1:C:287:THR:CG2	1:C:569:MET:CG	2.90	0.49
1:C:461:THR:HB	1:M:442:VAL:O	2.13	0.49
1:D:356:PHE:CG	1:D:405:THR:HA	2.47	0.49
1:E:356:PHE:CG	1:E:405:THR:HA	2.47	0.49
1:H:289:SER:HA	1:W:188:VAL:CG2	2.43	0.49
1:H:461:THR:HB	1:Y:442:VAL:O	2.12	0.49
1:I:287:THR:HG21	1:I:569:MET:CE	2.43	0.49
1:I:477:ASP:OD1	1:I:478:GLY:N	2.43	0.49
1:K:393:GLN:NE2	1:0:318:SER:HB2	2.27	0.49
1:L:280:HIS:HD2	1:L:443:ASP:OD2	1.94	0.49
1:L:384:GLY:O	1:L:555:GLU:HG3	2.12	0.49
1:M:86:PHE:CG	1:M:87:PRO:HD2	2.47	0.49
1:N:287:THR:CG2	1:N:569:MET:CG	2.90	0.49
1:O:86:PHE:CG	1:O:87:PRO:HD2	2.48	0.49
1:O:356:PHE:CG	1:O:405:THR:HA	2.47	0.49
1:P:280:HIS:HD2	1:P:443:ASP:OD2	1.94	0.49
1:R:34:GLY:HA2	1:V:37:HIS:CE1	2.46	0.49
1:R:108:THR:HG22	1:R:210:TYR:O	2.12	0.49
1:S:406:ASN:CB	1:U:342:HIS:CE1	2.94	0.49
1:T:108:THR:HG22	1:T:210:TYR:O	2.12	0.49
1:U:75:TYR:OH	1:U:249:GLU:OE1	2.27	0.49
1:U:156:LYS:HD3	1:U:165:THR:HG22	1.95	0.49
1:U:356:PHE:CG	1:U:405:THR:HA	2.47	0.49
1:V:117:SER:HB2	1:V:191:ASN:ND2	2.27	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:V:318:SER:HB2	1:5:393:GLN:NE2	2.27	0.49
1:V:393:GLN:NE2	1:X:318:SER:HB2	2.27	0.49
1:W:406:ASN:CG	1:Y:342:HIS:HE1	2.16	0.49
1:Z:342:HIS:HE1	1:w:406:ASN:CG	2.16	0.49
1:Z:393:GLN:NE2	1:w:318:SER:HB2	2.26	0.49
1:2:359:ALA:HA	1:2:362:SER:HB2	1.92	0.49
1:2:384:GLY:O	1:2:555:GLU:HG3	2.12	0.49
1:4:156:LYS:HD3	1:4:165:THR:HG22	1.95	0.49
1:5:384:GLY:O	1:5:555:GLU:HG3	2.12	0.49
1:6:342:HIS:CE1	1:a:406:ASN:CB	2.95	0.49
1:6:384:GLY:O	1:6:555:GLU:HG3	2.12	0.49
1:a:200:ILE:HD11	1:a:203:ARG:CG	2.38	0.49
1:b:287:THR:CG2	1:b:569:MET:CG	2.90	0.49
1:c:75:TYR:OH	1:c:249:GLU:OE1	2.27	0.49
1:d:86:PHE:CG	1:d:87:PRO:HD2	2.48	0.49
1:d:406:ASN:CB	1:e:342:HIS:CE1	2.95	0.49
1:e:86:PHE:CG	1:e:87:PRO:HD2	2.47	0.49
1:f:384:GLY:O	1:f:555:GLU:HG3	2.12	0.49
1:g:289:SER:HA	1:h:188:VAL:CG2	2.43	0.49
1:h:356:PHE:CG	1:h:405:THR:HA	2.47	0.49
1:i:86:PHE:CG	1:i:87:PRO:HD2	2.48	0.49
1:j:34:GLY:HA2	1:z:37:HIS:CE1	2.47	0.49
1:k:86:PHE:CG	1:k:87:PRO:HD2	2.48	0.49
1:l:289:SER:HA	1:m:188:VAL:CG2	2.43	0.49
1:m:86:PHE:CG	1:m:87:PRO:HD2	2.48	0.49
1:n:86:PHE:CG	1:n:87:PRO:HD2	2.48	0.49
1:n:393:GLN:NE2	1:p:318:SER:HB2	2.27	0.49
1:n:442:VAL:O	1:o:461:THR:HB	2.12	0.49
1:o:281:TRP:HE1	1:p:244:GLN:NE2	2.10	0.49
1:p:356:PHE:CG	1:p:405:THR:HA	2.47	0.49
1:q:156:LYS:HD3	1:q:165:THR:HG22	1.95	0.49
1:q:318:SER:HB2	1:r:393:GLN:NE2	2.27	0.49
1:r:287:THR:CG2	1:r:569:MET:CG	2.90	0.49
1:s:156:LYS:HD3	1:s:165:THR:HG22	1.95	0.49
1:t:57:ILE:HB	1:t:519:LEU:HB2	1.94	0.49
1:t:287:THR:HG21	1:t:569:MET:CE	2.43	0.49
1:t:477:ASP:OD1	1:t:478:GLY:N	2.43	0.49
1:u:359:ALA:HA	1:u:362:SER:HB2	1.92	0.49
1:w:188:VAL:CG2	1:x:289:SER:HA	2.43	0.49
1:w:461:THR:HB	1:x:442:VAL:O	2.12	0.49
1:x:57:ILE:HB	1:x:519:LEU:HB2	1.94	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:y:34:GLY:HA2	1:0:37:HIS:CE1	2.46	0.49
1:7:356:PHE:CG	1:7:405:THR:HA	2.47	0.49
1:0:359:ALA:HA	1:0:362:SER:HB2	1.92	0.49
1:A:287:THR:HG21	1:A:569:MET:CE	2.43	0.49
1:B:406:ASN:CB	1:J:342:HIS:CE1	2.95	0.49
1:C:319:ASP:HB3	1:C:320:PRO:HD3	1.93	0.49
1:F:393:GLN:HE22	1:Q:318:SER:CB	2.24	0.49
1:G:384:GLY:O	1:G:555:GLU:HG3	2.12	0.49
1:H:287:THR:CG2	1:H:569:MET:CG	2.90	0.49
1:J:442:VAL:O	1:L:461:THR:HB	2.13	0.49
1:L:156:LYS:HD3	1:L:165:THR:HG22	1.95	0.49
1:N:287:THR:HG21	1:N:569:MET:CE	2.43	0.49
1:Q:86:PHE:CG	1:Q:87:PRO:HD2	2.48	0.49
1:Q:453:ALA:H	1:Q:470:HIS:HE1	1.61	0.49
1:R:287:THR:CG2	1:R:569:MET:CG	2.90	0.49
1:S:86:PHE:CG	1:S:87:PRO:HD2	2.48	0.49
1:T:318:SER:HB2	1:4:393:GLN:NE2	2.27	0.49
1:T:384:GLY:O	1:T:555:GLU:HG3	2.12	0.49
1:V:86:PHE:CG	1:V:87:PRO:HD2	2.48	0.49
1:V:359:ALA:HA	1:V:362:SER:HB2	1.92	0.49
1:1:287:THR:HG21	1:1:569:MET:CE	2.43	0.49
1:1:442:VAL:O	1:0:461:THR:HB	2.12	0.49
1:3:384:GLY:O	1:3:555:GLU:HG3	2.12	0.49
1:6:442:VAL:O	1:b:461:THR:HB	2.13	0.49
1:b:356:PHE:CG	1:b:405:THR:HA	2.47	0.49
1:b:384:GLY:O	1:b:555:GLU:HG3	2.12	0.49
1:c:384:GLY:O	1:c:555:GLU:HG3	2.12	0.49
1:d:75:TYR:OH	1:d:249:GLU:OE1	2.28	0.49
1:e:287:THR:CG2	1:e:569:MET:CG	2.90	0.49
1:e:319:ASP:HB3	1:e:320:PRO:HD3	1.93	0.49
1:g:384:GLY:O	1:g:555:GLU:HG3	2.12	0.49
1:i:287:THR:HG21	1:i:569:MET:CE	2.43	0.49
1:i:384:GLY:O	1:i:555:GLU:HG3	2.12	0.49
1:m:108:THR:HG22	1:m:210:TYR:O	2.13	0.49
1:m:356:PHE:CG	1:m:405:THR:HA	2.47	0.49
1:n:406:ASN:CB	1:o:342:HIS:CE1	2.94	0.49
1:o:442:VAL:O	1:p:461:THR:HB	2.12	0.49
1:q:356:PHE:CG	1:q:405:THR:HA	2.47	0.49
1:s:57:ILE:HB	1:s:519:LEU:HB2	1.94	0.49
1:t:289:SER:HA	1:u:188:VAL:CG2	2.43	0.49
1:t:387:ASP:OD1	1:t:387:ASP:N	2.43	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:u:287:THR:HG21	1:u:569:MET:CE	2.43	0.49
1:u:477:ASP:OD1	1:u:478:GLY:N	2.43	0.49
1:v:384:GLY:O	1:v:555:GLU:HG3	2.12	0.49
1:x:287:THR:CG2	1:x:569:MET:CG	2.90	0.49
1:y:108:THR:HG22	1:y:210:TYR:O	2.13	0.49
1:y:287:THR:CG2	1:y:569:MET:CG	2.90	0.49
1:z:57:ILE:HB	1:z:519:LEU:HB2	1.93	0.49
1:z:86:PHE:CG	1:z:87:PRO:HD2	2.48	0.49
1:7:75:TYR:OH	1:7:249:GLU:OE1	2.27	0.49
1:7:156:LYS:HD3	1:7:165:THR:HG22	1.95	0.49
1:A:57:ILE:HB	1:A:519:LEU:HB2	1.94	0.49
1:A:289:SER:HA	1:G:188:VAL:CG2	2.43	0.49
1:A:406:ASN:CB	1:G:342:HIS:CE1	2.95	0.49
1:B:156:LYS:HD3	1:B:165:THR:HG22	1.95	0.49
1:B:287:THR:HG21	1:B:569:MET:CE	2.43	0.49
1:C:86:PHE:CG	1:C:87:PRO:HD2	2.48	0.49
1:D:156:LYS:HD3	1:D:165:THR:HG22	1.95	0.49
1:D:280:HIS:HD2	1:D:443:ASP:OD2	1.94	0.49
1:D:468:SER:OG	1:D:471:ALA:O	2.22	0.49
1:E:287:THR:HG21	1:E:569:MET:CE	2.43	0.49
1:E:318:SER:HB2	1:Q:393:GLN:NE2	2.27	0.49
1:G:156:LYS:HD3	1:G:165:THR:HG22	1.95	0.49
1:J:384:GLY:O	1:J:555:GLU:HG3	2.12	0.49
1:M:75:TYR:OH	1:M:249:GLU:OE1	2.27	0.49
1:M:108:THR:HG22	1:M:210:TYR:O	2.13	0.49
1:M:477:ASP:OD1	1:M:478:GLY:N	2.43	0.49
1:N:356:PHE:CG	1:N:405:THR:HA	2.47	0.49
1:O:141:HIS:CE1	1:O:518:ILE:HD12	2.47	0.49
1:O:287:THR:HG21	1:O:569:MET:CE	2.43	0.49
1:O:406:ASN:CB	1:g:342:HIS:CE1	2.94	0.49
1:R:461:THR:HB	1:U:442:VAL:O	2.12	0.49
1:S:57:ILE:HB	1:S:519:LEU:HB2	1.94	0.49
1:S:406:ASN:CG	1:U:342:HIS:HE1	2.16	0.49
1:T:287:THR:HG21	1:T:569:MET:CE	2.43	0.49
1:V:461:THR:HB	1:X:442:VAL:O	2.12	0.49
1:W:442:VAL:O	1:Y:461:THR:HB	2.13	0.49
1:X:57:ILE:HB	1:X:519:LEU:HB2	1.94	0.49
1:X:287:THR:HG21	1:X:569:MET:CE	2.43	0.49
1:X:453:ALA:H	1:X:470:HIS:HE1	1.61	0.49
1:Z:442:VAL:O	1:x:461:THR:HB	2.12	0.49
1:Z:461:THR:HB	1:w:442:VAL:O	2.13	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1:335:SER:H	1:1:435:THR:CG2	2.13	0.49
1:2:108:THR:HG22	1:2:210:TYR:O	2.13	0.49
1:3:117:SER:HB2	1:3:191:ASN:ND2	2.27	0.49
1:4:384:GLY:O	1:4:555:GLU:HG3	2.12	0.49
1:a:156:LYS:HD3	1:a:165:THR:HG22	1.95	0.49
1:a:287:THR:HG21	1:a:569:MET:CE	2.43	0.49
1:b:156:LYS:HD3	1:b:165:THR:HG22	1.95	0.49
1:c:289:SER:HA	1:d:188:VAL:CG2	2.43	0.49
1:d:57:ILE:HB	1:d:519:LEU:HB2	1.94	0.49
1:d:318:SER:HB2	1:e:393:GLN:NE2	2.27	0.49
1:f:117:SER:HB2	1:f:191:ASN:ND2	2.27	0.49
1:h:108:THR:HG22	1:h:210:TYR:O	2.13	0.49
1:h:141:HIS:CE1	1:h:518:ILE:HD12	2.47	0.49
1:i:108:THR:HG22	1:i:210:TYR:O	2.13	0.49
1:i:318:SER:HB2	1:j:393:GLN:NE2	2.27	0.49
1:k:117:SER:HB2	1:k:191:ASN:ND2	2.26	0.49
1:k:335:SER:H	1:k:435:THR:CG2	2.13	0.49
1:k:406:ASN:CB	1:l:342:HIS:CE1	2.94	0.49
1:l:384:GLY:O	1:l:555:GLU:HG3	2.12	0.49
1:n:141:HIS:CE1	1:n:518:ILE:HD12	2.47	0.49
1:n:453:ALA:H	1:n:470:HIS:HE1	1.61	0.49
1:o:356:PHE:CG	1:o:405:THR:HA	2.47	0.49
1:p:34:GLY:HA2	1:u:37:HIS:CE1	2.46	0.49
1:p:287:THR:HG21	1:p:569:MET:CE	2.43	0.49
1:r:287:THR:HG21	1:r:569:MET:CE	2.43	0.49
1:r:356:PHE:CG	1:r:405:THR:HA	2.47	0.49
1:t:281:TRP:HE1	1:u:244:GLN:NE2	2.09	0.49
1:u:318:SER:HB2	1:v:393:GLN:NE2	2.27	0.49
1:v:156:LYS:HD3	1:v:165:THR:HG22	1.95	0.49
1:z:280:HIS:HD2	1:z:443:ASP:OD2	1.94	0.49
1:z:287:THR:CG2	1:z:569:MET:CG	2.90	0.49
1:z:406:ASN:CB	1:7:342:HIS:CE1	2.95	0.49
1:z:442:VAL:O	1:7:461:THR:HB	2.12	0.49
1:0:86:PHE:CG	1:0:87:PRO:HD2	2.48	0.49
1:A:86:PHE:CG	1:A:87:PRO:HD2	2.48	0.49
1:G:331:HIS:CE1	1:I:342:HIS:HD2	2.29	0.49
1:H:384:GLY:O	1:H:555:GLU:HG3	2.12	0.49
1:J:156:LYS:HD3	1:J:165:THR:HG22	1.95	0.49
1:M:188:VAL:CG2	1:2:289:SER:HA	2.43	0.49
1:O:117:SER:HB2	1:O:191:ASN:ND2	2.26	0.49
1:P:108:THR:HG22	1:P:210:TYR:O	2.13	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Q:141:HIS:CE1	1:Q:518:ILE:HD12	2.47	0.49
1:S:200:ILE:HD11	1:S:203:ARG:CG	2.38	0.49
1:Z:287:THR:HG21	1:Z:569:MET:CE	2.43	0.49
1:1:453:ALA:H	1:1:470:HIS:HE1	1.61	0.49
1:3:86:PHE:CG	1:3:87:PRO:HD2	2.48	0.49
1:4:75:TYR:OH	1:4:249:GLU:OE1	2.27	0.49
1:5:141:HIS:CE1	1:5:518:ILE:HD12	2.47	0.49
1:6:156:LYS:HD3	1:6:165:THR:HG22	1.95	0.49
1:b:280:HIS:HD2	1:b:443:ASP:OD2	1.95	0.49
1:c:108:THR:HG22	1:c:210:TYR:O	2.13	0.49
1:c:287:THR:CG2	1:c:569:MET:CG	2.90	0.49
1:f:86:PHE:CG	1:f:87:PRO:HD2	2.48	0.49
1:i:442:VAL:O	1:j:461:THR:HB	2.13	0.49
1:j:384:GLY:O	1:j:555:GLU:HG3	2.12	0.49
1:k:141:HIS:CE1	1:k:518:ILE:HD12	2.47	0.49
1:k:287:THR:HG21	1:k:569:MET:CE	2.43	0.49
1:l:86:PHE:CG	1:l:87:PRO:HD2	2.48	0.49
1:m:141:HIS:CE1	1:m:518:ILE:HD12	2.47	0.49
1:n:342:HIS:HD2	1:p:331:HIS:CE1	2.29	0.49
1:o:156:LYS:HD3	1:o:165:THR:HG22	1.95	0.49
1:r:86:PHE:CG	1:r:87:PRO:HD2	2.47	0.49
1:r:289:SER:HA	1:s:188:VAL:CG2	2.43	0.49
1:s:86:PHE:CG	1:s:87:PRO:HD2	2.48	0.49
1:t:117:SER:HB2	1:t:191:ASN:ND2	2.27	0.49
1:u:86:PHE:CG	1:u:87:PRO:HD2	2.48	0.49
1:v:141:HIS:CE1	1:v:518:ILE:HD12	2.47	0.49
1:w:393:GLN:NE2	1:x:318:SER:HB2	2.27	0.49
1:y:461:THR:HB	1:7:442:VAL:O	2.13	0.49
1:0:156:LYS:HD3	1:0:165:THR:HG22	1.95	0.49
1:C:117:SER:HB2	1:C:191:ASN:ND2	2.27	0.49
1:C:393:GLN:NE2	1:M:318:SER:HB2	2.27	0.49
1:C:477:ASP:OD1	1:C:478:GLY:N	2.43	0.49
1:D:289:SER:HA	1:N:188:VAL:CG2	2.43	0.49
1:E:188:VAL:CG2	1:F:289:SER:HA	2.42	0.49
1:F:108:THR:HG22	1:F:210:TYR:O	2.13	0.49
1:F:342:HIS:HE1	1:Q:406:ASN:CG	2.21	0.49
1:G:141:HIS:CE1	1:G:518:ILE:HD12	2.47	0.49
1:G:289:SER:HA	1:I:188:VAL:CG2	2.43	0.49
1:G:442:VAL:O	1:I:461:THR:HB	2.12	0.49
1:H:188:VAL:CG2	1:Y:289:SER:HA	2.43	0.49
1:H:318:SER:HB2	1:W:393:GLN:NE2	2.27	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:453:ALA:H	1:H:470:HIS:HE1	1.61	0.49
1:J:387:ASP:OD1	1:J:387:ASP:N	2.43	0.49
1:K:141:HIS:CE1	1:K:518:ILE:HD12	2.47	0.49
1:K:318:SER:CB	1:1:393:GLN:HE22	2.24	0.49
1:M:287:THR:HG21	1:M:569:MET:CE	2.43	0.49
1:N:289:SER:HA	1:P:188:VAL:CG2	2.43	0.49
1:O:156:LYS:HD3	1:O:165:THR:HG22	1.95	0.49
1:P:86:PHE:CG	1:P:87:PRO:HD2	2.48	0.49
1:S:280:HIS:HD2	1:S:443:ASP:OD2	1.94	0.49
1:S:287:THR:CG2	1:S:569:MET:CG	2.90	0.49
1:S:442:VAL:O	1:U:461:THR:HB	2.12	0.49
1:T:156:LYS:HD3	1:T:165:THR:HG22	1.95	0.49
1:T:442:VAL:O	1:4:461:THR:HB	2.13	0.49
1:U:335:SER:H	1:U:435:THR:CG2	2.13	0.49
1:W:289:SER:HA	1:Y:188:VAL:CG2	2.42	0.49
1:Y:156:LYS:HD3	1:Y:165:THR:HG22	1.95	0.49
1:Y:287:THR:HG21	1:Y:569:MET:CE	2.43	0.49
1:Z:156:LYS:HD3	1:Z:165:THR:HG22	1.95	0.49
1:Z:289:SER:HA	1:x:188:VAL:CG2	2.43	0.49
1:1:57:ILE:HB	1:1:519:LEU:HB2	1.94	0.49
1:2:75:TYR:OH	1:2:249:GLU:OE1	2.28	0.49
1:2:287:THR:CG2	1:2:569:MET:CG	2.90	0.49
1:b:453:ALA:H	1:b:470:HIS:HE1	1.61	0.49
1:d:108:THR:HG22	1:d:210:TYR:O	2.13	0.49
1:d:477:ASP:OD1	1:d:478:GLY:N	2.43	0.49
1:e:117:SER:HB2	1:e:191:ASN:ND2	2.27	0.49
1:e:477:ASP:OD1	1:e:478:GLY:N	2.43	0.49
1:g:86:PHE:CG	1:g:87:PRO:HD2	2.48	0.49
1:g:117:SER:HB2	1:g:191:ASN:ND2	2.26	0.49
1:g:442:VAL:O	1:h:461:THR:HB	2.12	0.49
1:j:75:TYR:OH	1:j:249:GLU:OE1	2.27	0.49
1:k:156:LYS:HD3	1:k:165:THR:HG22	1.95	0.49
1:l:442:VAL:O	1:m:461:THR:HB	2.12	0.49
1:m:287:THR:CG2	1:m:569:MET:CG	2.90	0.49
1:n:331:HIS:CE1	1:o:342:HIS:HD2	2.29	0.49
1:o:108:THR:HG22	1:o:210:TYR:O	2.13	0.49
1:p:108:THR:HG22	1:p:210:TYR:O	2.13	0.49
1:p:141:HIS:CE1	1:p:518:ILE:HD12	2.47	0.49
1:q:280:HIS:HD2	1:q:443:ASP:OD2	1.94	0.49
1:s:108:THR:HG22	1:s:210:TYR:O	2.13	0.49
1:t:318:SER:HB2	1:u:393:GLN:NE2	2.27	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:t:342:HIS:HD2	1:v:331:HIS:CE1	2.29	0.49
1:t:461:THR:HB	1:v:442:VAL:O	2.12	0.49
1:x:384:GLY:O	1:x:555:GLU:HG3	2.12	0.49
1:x:453:ALA:H	1:x:470:HIS:HE1	1.61	0.49
1:y:156:LYS:HD3	1:y:165:THR:HG22	1.95	0.49
1:z:200:ILE:HD11	1:z:203:ARG:CG	2.38	0.49
1:7:117:SER:HB2	1:7:191:ASN:ND2	2.27	0.49
1:7:477:ASP:OD1	1:7:478:GLY:N	2.43	0.49
1:A:342:HIS:CE1	1:I:406:ASN:CB	2.95	0.49
1:D:86:PHE:CG	1:D:87:PRO:HD2	2.47	0.49
1:D:460:ASP:HA	1:D:464:LYS:HE3	1.95	0.49
1:E:86:PHE:CG	1:E:87:PRO:HD2	2.48	0.49
1:E:108:THR:HG22	1:E:210:TYR:O	2.13	0.49
1:E:141:HIS:CE1	1:E:518:ILE:HD12	2.47	0.49
1:F:156:LYS:HD3	1:F:165:THR:HG22	1.95	0.49
1:H:156:LYS:HD3	1:H:165:THR:HG22	1.95	0.49
1:I:117:SER:HB2	1:I:191:ASN:ND2	2.27	0.49
1:J:117:SER:HB2	1:J:191:ASN:ND2	2.26	0.49
1:L:453:ALA:H	1:L:470:HIS:HE1	1.61	0.49
1:M:57:ILE:HB	1:M:519:LEU:HB2	1.94	0.49
1:M:342:HIS:CE1	1:2:406:ASN:CB	2.95	0.49
1:N:86:PHE:CG	1:N:87:PRO:HD2	2.48	0.49
1:P:384:GLY:O	1:P:555:GLU:HG3	2.12	0.49
1:U:117:SER:HB2	1:U:191:ASN:ND2	2.27	0.49
1:V:289:SER:HA	1:5:188:VAL:CG2	2.43	0.49
1:W:281:TRP:HE1	1:Y:244:GLN:NE2	2.09	0.49
1:Y:75:TYR:OH	1:Y:249:GLU:OE1	2.28	0.49
1:Y:108:THR:HG22	1:Y:210:TYR:O	2.13	0.49
1:Y:280:HIS:HD2	1:Y:443:ASP:OD2	1.94	0.49
1:Z:108:THR:HG22	1:Z:210:TYR:O	2.13	0.49
1:Z:188:VAL:CG2	1:w:289:SER:HA	2.42	0.49
1:Z:244:GLN:NE2	1:w:281:TRP:HE1	2.09	0.49
1:Z:342:HIS:HD2	1:w:331:HIS:CE1	2.29	0.49
1:2:200:ILE:HD11	1:2:203:ARG:CG	2.38	0.49
1:3:188:VAL:CG2	1:j:289:SER:HA	2.43	0.49
1:4:289:SER:HA	1:f:188:VAL:CG2	2.43	0.49
1:6:117:SER:HB2	1:6:191:ASN:ND2	2.26	0.49
1:6:287:THR:CG2	1:6:569:MET:CG	2.90	0.49
1:6:289:SER:HA	1:b:188:VAL:CG2	2.43	0.49
1:6:387:ASP:OD1	1:6:387:ASP:N	2.43	0.49
1:c:406:ASN:CB	1:d:342:HIS:CE1	2.95	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:c:442:VAL:O	1:d:461:THR:HB	2.13	0.49
1:d:281:TRP:HE1	1:e:244:GLN:NE2	2.10	0.49
1:h:287:THR:CG2	1:h:569:MET:CG	2.90	0.49
1:i:156:LYS:HD3	1:i:165:THR:HG22	1.95	0.49
1:k:453:ALA:H	1:k:470:HIS:HE1	1.61	0.49
1:p:384:GLY:O	1:p:555:GLU:HG3	2.12	0.49
1:q:86:PHE:CG	1:q:87:PRO:HD2	2.47	0.49
1:q:289:SER:HA	1:r:188:VAL:CG2	2.43	0.49
1:q:460:ASP:HA	1:q:464:LYS:HE3	1.95	0.49
1:q:468:SER:OG	1:q:471:ALA:O	2.22	0.49
1:t:188:VAL:CG2	1:v:289:SER:HA	2.43	0.49
1:u:57:ILE:HB	1:u:519:LEU:HB2	1.94	0.49
1:u:384:GLY:O	1:u:555:GLU:HG3	2.12	0.49
1:v:287:THR:CG2	1:v:569:MET:CG	2.90	0.49
1:w:460:ASP:HA	1:w:464:LYS:HE3	1.95	0.49
1:x:156:LYS:HD3	1:x:165:THR:HG22	1.95	0.49
1:z:453:ALA:H	1:z:470:HIS:HE1	1.61	0.49
1:B:468:SER:OG	1:B:471:ALA:O	2.22	0.49
1:C:244:GLN:NE2	1:M:281:TRP:HE1	2.10	0.49
1:C:287:THR:HG21	1:C:569:MET:CE	2.43	0.49
1:D:287:THR:CG2	1:D:569:MET:CG	2.90	0.49
1:E:441:ALA:HB2	1:Q:465:PRO:HG3	1.95	0.49
1:E:460:ASP:HA	1:E:464:LYS:HE3	1.95	0.49
1:F:86:PHE:CG	1:F:87:PRO:HD2	2.48	0.49
1:G:287:THR:CG2	1:G:569:MET:CG	2.90	0.49
1:H:141:HIS:CE1	1:H:518:ILE:HD12	2.47	0.49
1:J:287:THR:CG2	1:J:569:MET:CG	2.90	0.49
1:J:453:ALA:H	1:J:470:HIS:HE1	1.61	0.49
1:K:188:VAL:CG2	1:0:289:SER:HA	2.43	0.49
1:L:108:THR:HG22	1:L:210:TYR:O	2.12	0.49
1:M:461:THR:HB	1:2:442:VAL:O	2.13	0.49
1:O:393:GLN:NE2	1:h:318:SER:HB2	2.27	0.49
1:O:453:ALA:H	1:O:470:HIS:HE1	1.61	0.49
1:Q:287:THR:CG2	1:Q:569:MET:CG	2.90	0.49
1:Q:530:ASN:ND2	1:R:547:LEU:HD21	2.28	0.49
1:R:156:LYS:HD3	1:R:165:THR:HG22	1.95	0.49
1:T:244:GLN:NE2	1:f:281:TRP:HE1	2.09	0.49
1:U:477:ASP:OD1	1:U:478:GLY:N	2.43	0.49
1:V:156:LYS:HD3	1:V:165:THR:HG22	1.95	0.49
1:W:331:HIS:CE1	1:Y:342:HIS:HD2	2.29	0.49
1:W:453:ALA:H	1:W:470:HIS:HE1	1.61	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:W:460:ASP:HA	1:W:464:LYS:HE3	1.95	0.49
1:X:393:GLN:HE22	1:5:318:SER:CB	2.24	0.49
1:Y:57:ILE:HB	1:Y:519:LEU:HB2	1.94	0.49
1:Z:280:HIS:HD2	1:Z:443:ASP:OD2	1.94	0.49
1:1:141:HIS:CE1	1:1:518:ILE:HD12	2.47	0.49
1:3:281:TRP:HE1	1:i:244:GLN:NE2	2.09	0.49
1:6:108:THR:HG22	1:6:210:TYR:O	2.13	0.49
1:6:453:ALA:H	1:6:470:HIS:HE1	1.61	0.49
1:b:108:THR:HG22	1:b:210:TYR:O	2.13	0.49
1:c:200:ILE:HD11	1:c:203:ARG:CG	2.38	0.49
1:d:287:THR:HG21	1:d:569:MET:CE	2.43	0.49
1:d:331:HIS:CE1	1:e:342:HIS:HD2	2.29	0.49
1:f:460:ASP:HA	1:f:464:LYS:HE3	1.95	0.49
1:g:108:THR:HG22	1:g:210:TYR:O	2.13	0.49
1:h:453:ALA:H	1:h:470:HIS:HE1	1.61	0.49
1:m:453:ALA:H	1:m:470:HIS:HE1	1.61	0.49
1:n:287:THR:CG2	1:n:569:MET:CG	2.90	0.49
1:n:289:SER:HA	1:o:188:VAL:CG2	2.43	0.49
1:p:86:PHE:CG	1:p:87:PRO:HD2	2.48	0.49
1:q:287:THR:CG2	1:q:569:MET:CG	2.90	0.49
1:t:244:GLN:NE2	1:v:281:TRP:HE1	2.09	0.49
1:t:442:VAL:O	1:u:461:THR:HB	2.13	0.49
1:u:108:THR:HG22	1:u:210:TYR:O	2.12	0.49
1:w:453:ALA:H	1:w:470:HIS:HE1	1.61	0.49
1:x:86:PHE:CG	1:x:87:PRO:HD2	2.48	0.49
1:x:141:HIS:CE1	1:x:518:ILE:HD12	2.47	0.49
1:y:188:VAL:CG2	1:7:289:SER:HA	2.43	0.49
1:A:188:VAL:CG2	1:I:289:SER:HA	2.43	0.48
1:A:381:TYR:OH	1:E:74:GLU:OE2	2.31	0.48
1:A:384:GLY:O	1:A:555:GLU:HG3	2.12	0.48
1:C:342:HIS:HD2	1:M:331:HIS:CE1	2.29	0.48
1:E:384:GLY:O	1:E:555:GLU:HG3	2.12	0.48
1:E:453:ALA:H	1:E:470:HIS:HE1	1.61	0.48
1:G:200:ILE:HD11	1:G:203:ARG:CG	2.38	0.48
1:G:281:TRP:HE1	1:I:244:GLN:NE2	2.09	0.48
1:H:86:PHE:CG	1:H:87:PRO:HD2	2.48	0.48
1:I:108:THR:HG22	1:I:210:TYR:O	2.13	0.48
1:J:108:THR:HG22	1:J:210:TYR:O	2.13	0.48
1:J:289:SER:HA	1:L:188:VAL:CG2	2.43	0.48
1:K:279:TYR:HB3	1:K:562:ARG:HG2	1.95	0.48
1:L:86:PHE:CG	1:L:87:PRO:HD2	2.48	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:244:GLN:NE2	1:2:281:TRP:HE1	2.10	0.48
1:N:37:HIS:CE1	1:g:34:GLY:HA2	2.47	0.48
1:N:318:SER:HB2	1:P:393:GLN:NE2	2.27	0.48
1:O:384:GLY:O	1:O:555:GLU:HG3	2.12	0.48
1:S:318:SER:HB2	1:U:393:GLN:NE2	2.27	0.48
1:S:453:ALA:H	1:S:470:HIS:HE1	1.61	0.48
1:V:108:THR:HG22	1:V:210:TYR:O	2.13	0.48
1:V:244:GLN:NE2	1:X:281:TRP:HE1	2.10	0.48
1:X:200:ILE:HD11	1:X:203:ARG:CG	2.38	0.48
1:Z:57:ILE:HB	1:Z:519:LEU:HB2	1.94	0.48
1:Z:75:TYR:OH	1:Z:249:GLU:OE1	2.28	0.48
1:1:75:TYR:OH	1:1:249:GLU:OE1	2.28	0.48
1:1:281:TRP:HE1	1:0:244:GLN:NE2	2.10	0.48
1:1:289:SER:HA	1:0:188:VAL:CG2	2.43	0.48
1:3:460:ASP:HA	1:3:464:LYS:HE3	1.95	0.48
1:4:141:HIS:CE1	1:4:518:ILE:HD12	2.47	0.48
1:4:460:ASP:HA	1:4:464:LYS:HE3	1.95	0.48
1:5:279:TYR:HB3	1:5:562:ARG:HG2	1.96	0.48
1:c:281:TRP:HE1	1:d:244:GLN:NE2	2.10	0.48
1:j:460:ASP:HA	1:j:464:LYS:HE3	1.95	0.48
1:k:393:GLN:NE2	1:m:318:SER:HB2	2.27	0.48
1:l:108:THR:HG22	1:l:210:TYR:O	2.13	0.48
1:l:117:SER:HB2	1:l:191:ASN:ND2	2.26	0.48
1:m:279:TYR:HB3	1:m:562:ARG:HG2	1.96	0.48
1:o:86:PHE:CG	1:o:87:PRO:HD2	2.48	0.48
1:r:281:TRP:HE1	1:s:244:GLN:NE2	2.10	0.48
1:s:384:GLY:O	1:s:555:GLU:HG3	2.12	0.48
1:t:108:THR:HG22	1:t:210:TYR:O	2.13	0.48
1:A:108:THR:HG22	1:A:210:TYR:O	2.13	0.48
1:C:108:THR:HG22	1:C:210:TYR:O	2.13	0.48
1:C:289:SER:HA	1:2:188:VAL:CG2	2.43	0.48
1:C:442:VAL:O	1:2:461:THR:HB	2.12	0.48
1:H:406:ASN:CG	1:W:342:HIS:HE1	2.16	0.48
1:I:86:PHE:CG	1:I:87:PRO:HD2	2.48	0.48
1:I:460:ASP:HA	1:I:464:LYS:HE3	1.95	0.48
1:J:86:PHE:CG	1:J:87:PRO:HD2	2.48	0.48
1:J:141:HIS:CE1	1:J:518:ILE:HD12	2.47	0.48
1:J:287:THR:HG21	1:J:569:MET:CE	2.43	0.48
1:K:477:ASP:OD1	1:K:478:GLY:N	2.43	0.48
1:O:279:TYR:HB3	1:O:562:ARG:HG2	1.95	0.48
1:O:289:SER:HA	1:g:188:VAL:CG2	2.42	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:R:188:VAL:CG2	1:U:289:SER:HA	2.43	0.48
1:U:57:ILE:HB	1:U:519:LEU:HB2	1.93	0.48
1:V:188:VAL:CG2	1:X:289:SER:HA	2.43	0.48
1:X:141:HIS:CE1	1:X:518:ILE:HD12	2.47	0.48
1:Z:279:TYR:HB3	1:Z:562:ARG:HG2	1.96	0.48
1:2:156:LYS:HD3	1:2:165:THR:HG22	1.95	0.48
1:6:86:PHE:CG	1:6:87:PRO:HD2	2.48	0.48
1:6:287:THR:HG21	1:6:569:MET:CE	2.43	0.48
1:6:318:SER:HB2	1:b:393:GLN:NE2	2.27	0.48
1:a:188:VAL:CG2	1:b:289:SER:HA	2.43	0.48
1:b:86:PHE:CG	1:b:87:PRO:HD2	2.47	0.48
1:e:287:THR:HG21	1:e:569:MET:CE	2.43	0.48
1:h:279:TYR:HB3	1:h:562:ARG:HG2	1.96	0.48
1:j:141:HIS:CE1	1:j:518:ILE:HD12	2.47	0.48
1:k:279:TYR:HB3	1:k:562:ARG:HG2	1.95	0.48
1:k:384:GLY:O	1:k:555:GLU:HG3	2.12	0.48
1:l:34:GLY:HA2	1:r:37:HIS:CE1	2.47	0.48
1:p:453:ALA:H	1:p:470:HIS:HE1	1.61	0.48
1:p:460:ASP:HA	1:p:464:LYS:HE3	1.95	0.48
1:t:460:ASP:HA	1:t:464:LYS:HE3	1.95	0.48
1:w:342:HIS:HE1	1:x:406:ASN:CG	2.16	0.48
1:z:318:SER:HB2	1:7:393:GLN:NE2	2.27	0.48
1:0:108:THR:HG22	1:0:210:TYR:O	2.13	0.48
1:B:188:VAL:CG2	1:L:289:SER:HA	2.43	0.48
1:C:74:GLU:OE2	1:D:381:TYR:OH	2.32	0.48
1:F:453:ALA:H	1:F:470:HIS:HE1	1.61	0.48
1:K:108:THR:HG22	1:K:210:TYR:O	2.12	0.48
1:K:460:ASP:HA	1:K:464:LYS:HE3	1.95	0.48
1:N:281:TRP:HE1	1:P:244:GLN:NE2	2.10	0.48
1:O:188:VAL:CG2	1:h:289:SER:HA	2.43	0.48
1:O:200:ILE:HD11	1:O:203:ARG:CG	2.38	0.48
1:R:200:ILE:HD11	1:R:203:ARG:CG	2.38	0.48
1:T:57:ILE:HB	1:T:519:LEU:HB2	1.94	0.48
1:W:108:THR:HG22	1:W:210:TYR:O	2.13	0.48
1:X:75:TYR:OH	1:X:249:GLU:OE1	2.28	0.48
1:Y:86:PHE:CG	1:Y:87:PRO:HD2	2.48	0.48
1:Y:279:TYR:HB3	1:Y:562:ARG:HG2	1.96	0.48
1:5:460:ASP:HA	1:5:464:LYS:HE3	1.95	0.48
1:6:141:HIS:CE1	1:6:518:ILE:HD12	2.47	0.48
1:a:468:SER:OG	1:a:471:ALA:O	2.21	0.48
1:d:289:SER:HA	1:e:188:VAL:CG2	2.43	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:e:108:THR:HG22	1:e:210:TYR:O	2.13	0.48
1:f:453:ALA:H	1:f:470:HIS:HE1	1.61	0.48
1:g:453:ALA:H	1:g:470:HIS:HE1	1.61	0.48
1:h:477:ASP:OD1	1:h:478:GLY:N	2.43	0.48
1:i:57:ILE:HB	1:i:519:LEU:HB2	1.94	0.48
1:l:453:ALA:H	1:l:470:HIS:HE1	1.61	0.48
1:o:453:ALA:H	1:o:470:HIS:HE1	1.61	0.48
1:o:477:ASP:OD1	1:o:478:GLY:N	2.43	0.48
1:t:86:PHE:CG	1:t:87:PRO:HD2	2.48	0.48
1:v:200:ILE:HD11	1:v:203:ARG:CG	2.38	0.48
1:w:108:THR:HG22	1:w:210:TYR:O	2.13	0.48
1:y:279:TYR:HB3	1:y:562:ARG:HG2	1.96	0.48
1:z:108:THR:HG22	1:z:210:TYR:O	2.13	0.48
1:7:86:PHE:CG	1:7:87:PRO:HD2	2.48	0.48
1:A:393:GLN:NE2	1:I:318:SER:HB2	2.28	0.48
1:B:289:SER:HA	1:J:188:VAL:CG2	2.43	0.48
1:B:442:VAL:O	1:J:461:THR:HB	2.13	0.48
1:C:188:VAL:CG2	1:M:289:SER:HA	2.43	0.48
1:C:242:ASP:OD2	1:M:279:TYR:OH	2.29	0.48
1:D:287:THR:HG21	1:D:569:MET:CE	2.43	0.48
1:E:57:ILE:HB	1:E:519:LEU:HB2	1.94	0.48
1:E:329:ASN:OD1	1:Q:470:HIS:HB3	2.14	0.48
1:G:453:ALA:H	1:G:470:HIS:HE1	1.61	0.48
1:H:287:THR:HG21	1:H:569:MET:CE	2.43	0.48
1:N:477:ASP:OD1	1:N:478:GLY:N	2.43	0.48
1:O:381:TYR:OH	1:P:74:GLU:OE2	2.31	0.48
1:P:387:ASP:OD1	1:P:387:ASP:N	2.43	0.48
1:R:279:TYR:HB3	1:R:562:ARG:HG2	1.96	0.48
1:R:468:SER:OG	1:R:471:ALA:O	2.21	0.48
1:S:108:THR:HG22	1:S:210:TYR:O	2.13	0.48
1:U:108:THR:HG22	1:U:210:TYR:O	2.13	0.48
1:U:287:THR:HG21	1:U:569:MET:CE	2.43	0.48
1:Z:86:PHE:CG	1:Z:87:PRO:HD2	2.48	0.48
1:1:200:ILE:HD11	1:1:203:ARG:CG	2.38	0.48
1:3:287:THR:HG21	1:3:569:MET:CE	2.43	0.48
1:3:453:ALA:H	1:3:470:HIS:HE1	1.61	0.48
1:5:108:THR:HG22	1:5:210:TYR:O	2.13	0.48
1:6:188:VAL:CG2	1:a:289:SER:HA	2.43	0.48
1:6:393:GLN:NE2	1:a:318:SER:HB2	2.27	0.48
1:6:461:THR:HB	1:a:442:VAL:O	2.13	0.48
1:b:460:ASP:HA	1:b:464:LYS:HE3	1.95	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:c:156:LYS:HD3	1:c:165:THR:HG22	1.95	0.48
1:c:188:VAL:CG2	1:e:289:SER:HA	2.43	0.48
1:c:461:THR:HB	1:e:442:VAL:O	2.12	0.48
1:e:74:GLU:OE2	1:q:381:TYR:OH	2.32	0.48
1:f:287:THR:HG21	1:f:569:MET:CE	2.43	0.48
1:g:279:TYR:HB3	1:g:562:ARG:HG2	1.96	0.48
1:g:460:ASP:HA	1:g:464:LYS:HE3	1.95	0.48
1:h:156:LYS:HD3	1:h:165:THR:HG22	1.95	0.48
1:i:289:SER:HA	1:j:188:VAL:CG2	2.43	0.48
1:i:331:HIS:CE1	1:j:342:HIS:HD2	2.29	0.48
1:k:188:VAL:CG2	1:m:289:SER:HA	2.43	0.48
1:k:200:ILE:HD11	1:k:203:ARG:CG	2.38	0.48
1:k:289:SER:HA	1:l:188:VAL:CG2	2.42	0.48
1:l:279:TYR:HB3	1:l:562:ARG:HG2	1.96	0.48
1:o:289:SER:HA	1:p:188:VAL:CG2	2.43	0.48
1:p:57:ILE:HB	1:p:519:LEU:HB2	1.94	0.48
1:q:393:GLN:NE2	1:s:318:SER:HB2	2.27	0.48
1:r:477:ASP:OD1	1:r:478:GLY:N	2.43	0.48
1:s:387:ASP:OD1	1:s:387:ASP:N	2.43	0.48
1:u:442:VAL:O	1:v:461:THR:HB	2.13	0.48
1:w:342:HIS:HD2	1:x:331:HIS:CE1	2.29	0.48
1:x:287:THR:HG21	1:x:569:MET:CE	2.43	0.48
1:y:442:VAL:O	1:z:461:THR:HB	2.12	0.48
1:y:453:ALA:H	1:y:470:HIS:HE1	1.61	0.48
1:z:289:SER:HA	1:7:188:VAL:CG2	2.43	0.48
1:7:335:SER:H	1:7:435:THR:CG2	2.13	0.48
1:0:453:ALA:H	1:0:470:HIS:HE1	1.61	0.48
1:C:156:LYS:HD3	1:C:165:THR:HG22	1.95	0.48
1:E:279:TYR:HB3	1:E:562:ARG:HG2	1.96	0.48
1:F:192:MET:SD	1:Q:327:VAL:HG13	2.52	0.48
1:J:75:TYR:OH	1:J:249:GLU:OE1	2.28	0.48
1:J:318:SER:HB2	1:L:393:GLN:NE2	2.27	0.48
1:J:460:ASP:HA	1:J:464:LYS:HE3	1.95	0.48
1:P:279:TYR:HB3	1:P:562:ARG:HG2	1.96	0.48
1:Q:108:THR:HG22	1:Q:210:TYR:O	2.13	0.48
1:Q:279:TYR:HB3	1:Q:562:ARG:HG2	1.96	0.48
1:Q:547:LEU:HD21	1:R:530:ASN:ND2	2.28	0.48
1:R:442:VAL:O	1:S:461:THR:HB	2.13	0.48
1:S:289:SER:HA	1:U:188:VAL:CG2	2.43	0.48
1:S:460:ASP:HA	1:S:464:LYS:HE3	1.95	0.48
1:T:200:ILE:HD11	1:T:203:ARG:CG	2.38	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:T:381:TYR:OH	1:U:74:GLU:OE2	2.32	0.48
1:T:461:THR:HB	1:f:442:VAL:O	2.13	0.48
1:U:86:PHE:CG	1:U:87:PRO:HD2	2.48	0.48
1:V:331:HIS:CE1	1:5:342:HIS:HD2	2.29	0.48
1:V:453:ALA:H	1:V:470:HIS:HE1	1.61	0.48
1:Z:200:ILE:HD11	1:Z:203:ARG:CG	2.38	0.48
1:3:279:TYR:HB3	1:3:562:ARG:HG2	1.95	0.48
1:5:477:ASP:OD1	1:5:478:GLY:N	2.43	0.48
1:a:108:THR:HG22	1:a:210:TYR:O	2.13	0.48
1:f:108:THR:HG22	1:f:210:TYR:O	2.13	0.48
1:l:460:ASP:HA	1:l:464:LYS:HE3	1.95	0.48
1:m:156:LYS:HD3	1:m:165:THR:HG22	1.95	0.48
1:m:477:ASP:OD1	1:m:478:GLY:N	2.43	0.48
1:r:156:LYS:HD3	1:r:165:THR:HG22	1.95	0.48
1:r:318:SER:HB2	1:s:393:GLN:NE2	2.27	0.48
1:v:453:ALA:H	1:v:470:HIS:HE1	1.61	0.48
1:y:200:ILE:HD11	1:y:203:ARG:CG	2.38	0.48
1:z:460:ASP:HA	1:z:464:LYS:HE3	1.95	0.48
1:7:57:ILE:HB	1:7:519:LEU:HB2	1.94	0.48
1:B:108:THR:HG22	1:B:210:TYR:O	2.13	0.48
1:B:318:SER:HB2	1:J:393:GLN:NE2	2.27	0.48
1:C:279:TYR:HB3	1:C:562:ARG:HG2	1.96	0.48
1:D:279:TYR:HB3	1:D:562:ARG:HG2	1.96	0.48
1:D:393:GLN:NE2	1:P:318:SER:HB2	2.27	0.48
1:G:279:TYR:HB3	1:G:562:ARG:HG2	1.96	0.48
1:H:331:HIS:CE1	1:W:342:HIS:HD2	2.29	0.48
1:I:156:LYS:HD3	1:I:165:THR:HG22	1.95	0.48
1:K:86:PHE:CG	1:K:87:PRO:HD2	2.47	0.48
1:L:381:TYR:OH	1:2:74:GLU:OE2	2.32	0.48
1:L:460:ASP:HA	1:L:464:LYS:HE3	1.95	0.48
1:M:156:LYS:HD3	1:M:165:THR:HG22	1.95	0.48
1:N:156:LYS:HD3	1:N:165:THR:HG22	1.95	0.48
1:O:108:THR:HG22	1:O:210:TYR:O	2.13	0.48
1:P:287:THR:HG21	1:P:569:MET:CE	2.43	0.48
1:R:289:SER:HA	1:S:188:VAL:CG2	2.43	0.48
1:R:453:ALA:H	1:R:470:HIS:HE1	1.61	0.48
1:T:289:SER:HA	1:4:188:VAL:CG2	2.43	0.48
1:V:74:GLU:OE2	1:W:381:TYR:OH	2.32	0.48
1:W:156:LYS:HD3	1:W:165:THR:HG22	1.95	0.48
1:3:156:LYS:HD3	1:3:165:THR:HG22	1.95	0.48
1:3:442:VAL:O	1:i:461:THR:HB	2.12	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:5:287:THR:HG21	1:5:569:MET:CE	2.43	0.48
1:6:75:TYR:OH	1:6:249:GLU:OE1	2.28	0.48
1:b:381:TYR:OH	1:c:74:GLU:OE2	2.32	0.48
1:d:460:ASP:HA	1:d:464:LYS:HE3	1.95	0.48
1:e:156:LYS:HD3	1:e:165:THR:HG22	1.95	0.48
1:e:279:TYR:HB3	1:e:562:ARG:HG2	1.96	0.48
1:f:75:TYR:OH	1:f:249:GLU:OE1	2.27	0.48
1:f:156:LYS:HD3	1:f:165:THR:HG22	1.95	0.48
1:j:279:TYR:HB3	1:j:562:ARG:HG2	1.96	0.48
1:k:381:TYR:OH	1:s:74:GLU:OE2	2.32	0.48
1:n:188:VAL:CG2	1:p:289:SER:HA	2.43	0.48
1:p:279:TYR:HB3	1:p:562:ARG:HG2	1.96	0.48
1:q:279:TYR:HB3	1:q:562:ARG:HG2	1.96	0.48
1:q:477:ASP:OD1	1:q:478:GLY:N	2.43	0.48
1:s:141:HIS:CE1	1:s:518:ILE:HD12	2.47	0.48
1:s:279:TYR:HB3	1:s:562:ARG:HG2	1.96	0.48
1:y:74:GLU:OE2	1:0:381:TYR:OH	2.32	0.48
1:7:108:THR:HG22	1:7:210:TYR:O	2.13	0.48
1:7:287:THR:HG21	1:7:569:MET:CE	2.43	0.48
1:B:477:ASP:OD1	1:B:478:GLY:N	2.43	0.48
1:F:342:HIS:HE1	1:Q:406:ASN:CB	2.26	0.48
1:F:477:ASP:OD1	1:F:478:GLY:N	2.43	0.48
1:G:86:PHE:CG	1:G:87:PRO:HD2	2.47	0.48
1:H:279:TYR:HB3	1:H:562:ARG:HG2	1.96	0.48
1:H:477:ASP:OD1	1:H:478:GLY:N	2.43	0.48
1:J:279:TYR:HB3	1:J:562:ARG:HG2	1.96	0.48
1:K:287:THR:HG21	1:K:569:MET:CE	2.43	0.48
1:K:342:HIS:HD2	1:0:331:HIS:CE1	2.29	0.48
1:N:376:LYS:HG3	1:N:395:TRP:HB2	1.96	0.48
1:P:141:HIS:CE1	1:P:518:ILE:HD12	2.47	0.48
1:Q:376:LYS:HG3	1:Q:395:TRP:HB2	1.96	0.48
1:Q:381:TYR:OH	1:S:74:GLU:OE2	2.32	0.48
1:R:74:GLU:OE2	1:V:381:TYR:OH	2.32	0.48
1:T:74:GLU:OE2	1:c:381:TYR:OH	2.32	0.48
1:T:331:HIS:CE1	1:4:342:HIS:HD2	2.29	0.48
1:T:460:ASP:HA	1:T:464:LYS:HE3	1.95	0.48
1:Y:200:ILE:HD11	1:Y:203:ARG:CG	2.38	0.48
1:1:477:ASP:OD1	1:1:478:GLY:N	2.43	0.48
1:2:460:ASP:HA	1:2:464:LYS:HE3	1.95	0.48
1:3:75:TYR:OH	1:3:249:GLU:OE1	2.27	0.48
1:3:108:THR:HG22	1:3:210:TYR:O	2.13	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:4:279:TYR:HB3	1:4:562:ARG:HG2	1.96	0.48
1:6:279:TYR:HB3	1:6:562:ARG:HG2	1.96	0.48
1:6:460:ASP:HA	1:6:464:LYS:HE3	1.95	0.48
1:c:279:TYR:HB3	1:c:562:ARG:HG2	1.96	0.48
1:f:279:TYR:HB3	1:f:562:ARG:HG2	1.96	0.48
1:i:460:ASP:HA	1:i:464:LYS:HE3	1.95	0.48
1:j:287:THR:HG21	1:j:569:MET:CE	2.43	0.48
1:n:108:THR:HG22	1:n:210:TYR:O	2.13	0.48
1:n:279:TYR:HB3	1:n:562:ARG:HG2	1.96	0.48
1:n:381:TYR:OH	1:z:74:GLU:OE2	2.32	0.48
1:q:287:THR:HG21	1:q:569:MET:CE	2.43	0.48
1:q:453:ALA:H	1:q:470:HIS:HE1	1.61	0.48
1:s:287:THR:HG21	1:s:569:MET:CE	2.43	0.48
1:v:279:TYR:HB3	1:v:562:ARG:HG2	1.96	0.48
1:w:156:LYS:HD3	1:w:165:THR:HG22	1.95	0.48
1:w:381:TYR:OH	1:0:74:GLU:OE2	2.32	0.48
1:y:289:SER:HA	1:z:188:VAL:CG2	2.43	0.48
1:y:468:SER:OG	1:y:471:ALA:O	2.21	0.48
1:A:442:VAL:O	1:G:461:THR:HB	2.13	0.48
1:B:75:TYR:OH	1:B:249:GLU:OE1	2.27	0.48
1:D:188:VAL:CG2	1:P:289:SER:HA	2.43	0.48
1:J:108:THR:OG1	1:J:110:TRP:HD1	1.97	0.48
1:M:460:ASP:HA	1:M:464:LYS:HE3	1.95	0.48
1:N:453:ALA:H	1:N:470:HIS:HE1	1.61	0.48
1:N:460:ASP:HA	1:N:464:LYS:HE3	1.95	0.48
1:S:279:TYR:HB3	1:S:562:ARG:HG2	1.96	0.48
1:S:287:THR:HG21	1:S:569:MET:CE	2.43	0.48
1:S:335:SER:H	1:S:435:THR:CG2	2.13	0.48
1:T:145:THR:OG1	1:T:514:THR:OG1	2.27	0.48
1:T:188:VAL:CG2	1:f:289:SER:HA	2.43	0.48
1:U:279:TYR:HB3	1:U:562:ARG:HG2	1.96	0.48
1:V:279:TYR:HB3	1:V:562:ARG:HG2	1.96	0.48
1:X:188:VAL:CG2	1:5:289:SER:HA	2.43	0.48
1:1:279:TYR:HB3	1:1:562:ARG:HG2	1.96	0.48
1:2:279:TYR:HB3	1:2:562:ARG:HG2	1.96	0.48
1:2:381:TYR:OH	1:i:74:GLU:OE2	2.32	0.48
1:3:376:LYS:HG3	1:3:395:TRP:HB2	1.96	0.48
1:4:287:THR:HG21	1:4:569:MET:CE	2.43	0.48
1:5:86:PHE:CG	1:5:87:PRO:HD2	2.47	0.48
1:6:108:THR:OG1	1:6:110:TRP:HD1	1.97	0.48
1:c:460:ASP:HA	1:c:464:LYS:HE3	1.95	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:d:108:THR:OG1	1:d:110:TRP:HD1	1.97	0.48
1:d:156:LYS:HD3	1:d:165:THR:HG22	1.95	0.48
1:f:376:LYS:HG3	1:f:395:TRP:HB2	1.96	0.48
1:g:287:THR:HG21	1:g:569:MET:CE	2.43	0.48
1:h:376:LYS:HG3	1:h:395:TRP:HB2	1.96	0.48
1:i:200:ILE:HD11	1:i:203:ARG:CG	2.38	0.48
1:i:381:TYR:OH	1:7:74:GLU:OE2	2.32	0.48
1:i:453:ALA:H	1:i:470:HIS:HE1	1.61	0.48
1:k:108:THR:HG22	1:k:210:TYR:O	2.13	0.48
1:m:376:LYS:HG3	1:m:395:TRP:HB2	1.96	0.48
1:n:74:GLU:OE2	1:s:381:TYR:OH	2.32	0.48
1:o:381:TYR:OH	1:v:74:GLU:OE2	2.32	0.48
1:p:74:GLU:OE2	1:u:381:TYR:OH	2.32	0.48
1:r:453:ALA:H	1:r:470:HIS:HE1	1.61	0.48
1:t:156:LYS:HD3	1:t:165:THR:HG22	1.95	0.48
1:v:86:PHE:CG	1:v:87:PRO:HD2	2.47	0.48
1:v:477:ASP:OD1	1:v:478:GLY:N	2.43	0.48
1:x:279:TYR:HB3	1:x:562:ARG:HG2	1.96	0.48
1:y:376:LYS:HG3	1:y:395:TRP:HB2	1.96	0.48
1:z:279:TYR:HB3	1:z:562:ARG:HG2	1.96	0.48
1:7:108:THR:OG1	1:7:110:TRP:HD1	1.97	0.48
1:7:279:TYR:HB3	1:7:562:ARG:HG2	1.96	0.48
1:0:279:TYR:HB3	1:0:562:ARG:HG2	1.96	0.48
1:A:244:GLN:NE2	1:I:281:TRP:HE1	2.11	0.48
1:B:460:ASP:HA	1:B:464:LYS:HE3	1.95	0.48
1:D:477:ASP:OD1	1:D:478:GLY:N	2.43	0.48
1:H:406:ASN:CB	1:W:342:HIS:CE1	2.95	0.48
1:K:289:SER:HA	1:1:188:VAL:CG2	2.43	0.48
1:K:315:GLY:HA3	1:K:417:LEU:O	2.14	0.48
1:K:376:LYS:HG3	1:K:395:TRP:HB2	1.96	0.48
1:M:108:THR:OG1	1:M:110:TRP:HD1	1.97	0.48
1:N:381:TYR:OH	1:g:74:GLU:OE2	2.32	0.48
1:S:376:LYS:HG3	1:S:395:TRP:HB2	1.96	0.48
1:U:108:THR:OG1	1:U:110:TRP:HD1	1.97	0.48
1:V:468:SER:OG	1:V:471:ALA:O	2.22	0.48
1:X:156:LYS:HD3	1:X:165:THR:HG22	1.95	0.48
1:X:279:TYR:HB3	1:X:562:ARG:HG2	1.96	0.48
1:X:477:ASP:OD1	1:X:478:GLY:N	2.43	0.48
1:2:315:GLY:HA3	1:2:417:LEU:O	2.14	0.48
1:2:453:ALA:H	1:2:470:HIS:HE1	1.61	0.48
1:5:156:LYS:HD3	1:5:165:THR:HG22	1.95	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:5:315:GLY:HA3	1:5:417:LEU:O	2.14	0.48
1:5:376:LYS:HG3	1:5:395:TRP:HB2	1.96	0.48
1:a:477:ASP:OD1	1:a:478:GLY:N	2.43	0.48
1:b:287:THR:HG21	1:b:569:MET:CE	2.43	0.48
1:c:315:GLY:HA3	1:c:417:LEU:O	2.14	0.48
1:g:376:LYS:HG3	1:g:395:TRP:HB2	1.96	0.48
1:l:287:THR:HG21	1:l:569:MET:CE	2.43	0.48
1:n:108:THR:OG1	1:n:110:TRP:HD1	1.97	0.48
1:n:376:LYS:HG3	1:n:395:TRP:HB2	1.96	0.48
1:q:188:VAL:CG2	1:s:289:SER:HA	2.43	0.48
1:q:315:GLY:HA3	1:q:417:LEU:O	2.14	0.48
1:r:376:LYS:HG3	1:r:395:TRP:HB2	1.96	0.48
1:r:442:VAL:O	1:s:461:THR:HB	2.12	0.48
1:s:315:GLY:HA3	1:s:417:LEU:O	2.14	0.48
1:v:381:TYR:OH	1:w:74:GLU:OE2	2.32	0.48
1:x:477:ASP:OD1	1:x:478:GLY:N	2.43	0.48
1:z:287:THR:HG21	1:z:569:MET:CE	2.43	0.48
1:z:376:LYS:HG3	1:z:395:TRP:HB2	1.96	0.48
1:z:406:ASN:CG	1:7:342:HIS:HE1	2.16	0.48
1:C:453:ALA:H	1:C:470:HIS:HE1	1.61	0.48
1:D:315:GLY:HA3	1:D:417:LEU:O	2.14	0.48
1:D:453:ALA:H	1:D:470:HIS:HE1	1.61	0.48
1:E:108:THR:OG1	1:E:110:TRP:HD1	1.97	0.48
1:G:381:TYR:OH	1:W:74:GLU:OE2	2.32	0.48
1:H:315:GLY:HA3	1:H:417:LEU:O	2.14	0.48
1:K:381:TYR:OH	1:L:74:GLU:OE2	2.32	0.48
1:L:287:THR:HG21	1:L:569:MET:CE	2.43	0.48
1:P:315:GLY:HA3	1:P:417:LEU:O	2.14	0.48
1:P:453:ALA:H	1:P:470:HIS:HE1	1.61	0.48
1:Q:108:THR:OG1	1:Q:110:TRP:HD1	1.97	0.48
1:R:376:LYS:HG3	1:R:395:TRP:HB2	1.96	0.48
1:T:453:ALA:H	1:T:470:HIS:HE1	1.61	0.48
1:V:460:ASP:HA	1:V:464:LYS:HE3	1.95	0.48
1:Y:315:GLY:HA3	1:Y:417:LEU:O	2.14	0.48
1:Z:315:GLY:HA3	1:Z:417:LEU:O	2.14	0.48
1:1:156:LYS:HD3	1:1:165:THR:HG22	1.95	0.48
1:1:376:LYS:HG3	1:1:395:TRP:HB2	1.96	0.48
1:3:289:SER:HA	1:i:188:VAL:CG2	2.43	0.48
1:a:460:ASP:HA	1:a:464:LYS:HE3	1.95	0.48
1:d:74:GLU:OE2	1:f:381:TYR:OH	2.32	0.48
1:l:74:GLU:OE2	1:r:381:TYR:OH	2.32	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:l:200:ILE:HD11	1:l:203:ARG:CG	2.38	0.48
1:l:376:LYS:HG3	1:l:395:TRP:HB2	1.96	0.48
1:n:287:THR:HG21	1:n:569:MET:CE	2.43	0.48
1:o:279:TYR:HB3	1:o:562:ARG:HG2	1.96	0.48
1:o:387:ASP:OD1	1:o:387:ASP:N	2.43	0.48
1:p:108:THR:OG1	1:p:110:TRP:HD1	1.97	0.48
1:r:460:ASP:HA	1:r:464:LYS:HE3	1.95	0.48
1:u:453:ALA:H	1:u:470:HIS:HE1	1.61	0.48
1:v:376:LYS:HG3	1:v:395:TRP:HB2	1.96	0.48
1:x:315:GLY:HA3	1:x:417:LEU:O	2.14	0.48
1:z:156:LYS:HD3	1:z:165:THR:HG22	1.95	0.48
1:A:156:LYS:HD3	1:A:165:THR:HG22	1.95	0.47
1:A:453:ALA:H	1:A:470:HIS:HE1	1.61	0.47
1:A:460:ASP:HA	1:A:464:LYS:HE3	1.95	0.47
1:F:200:ILE:HD11	1:F:203:ARG:CG	2.38	0.47
1:F:279:TYR:HB3	1:F:562:ARG:HG2	1.96	0.47
1:F:381:TYR:OH	1:G:74:GLU:OE2	2.32	0.47
1:F:387:ASP:OD1	1:F:387:ASP:N	2.43	0.47
1:G:315:GLY:HA3	1:G:417:LEU:O	2.14	0.47
1:G:376:LYS:HG3	1:G:395:TRP:HB2	1.96	0.47
1:H:376:LYS:HG3	1:H:395:TRP:HB2	1.96	0.47
1:I:376:LYS:HG3	1:I:395:TRP:HB2	1.96	0.47
1:K:156:LYS:HD3	1:K:165:THR:HG22	1.95	0.47
1:L:376:LYS:HG3	1:L:395:TRP:HB2	1.96	0.47
1:M:315:GLY:HA3	1:M:417:LEU:O	2.14	0.47
1:N:315:GLY:HA3	1:N:417:LEU:O	2.14	0.47
1:N:442:VAL:O	1:P:461:THR:HB	2.12	0.47
1:N:468:SER:OG	1:N:471:ALA:O	2.22	0.47
1:O:442:VAL:O	1:g:461:THR:HB	2.13	0.47
1:O:460:ASP:HA	1:O:464:LYS:HE3	1.95	0.47
1:Q:156:LYS:HD3	1:Q:165:THR:HG22	1.95	0.47
1:R:217:TRP:CG	1:R:239:ARG:HD2	2.49	0.47
1:S:156:LYS:HD3	1:S:165:THR:HG22	1.95	0.47
1:T:122:MET:O	1:T:449:TYR:OH	2.31	0.47
1:W:122:MET:O	1:W:449:TYR:OH	2.31	0.47
1:X:108:THR:OG1	1:X:110:TRP:HD1	1.97	0.47
1:X:376:LYS:HG3	1:X:395:TRP:HB2	1.96	0.47
1:3:315:GLY:HA3	1:3:417:LEU:O	2.14	0.47
1:4:315:GLY:HA3	1:4:417:LEU:O	2.14	0.47
1:5:381:TYR:OH	1:b:74:GLU:OE2	2.32	0.47
1:a:75:TYR:OH	1:a:249:GLU:OE1	2.27	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:b:376:LYS:HG3	1:b:395:TRP:HB2	1.96	0.47
1:c:108:THR:OG1	1:c:110:TRP:HD1	1.97	0.47
1:c:453:ALA:H	1:c:470:HIS:HE1	1.61	0.47
1:d:315:GLY:HA3	1:d:417:LEU:O	2.14	0.47
1:e:315:GLY:HA3	1:e:417:LEU:O	2.14	0.47
1:e:453:ALA:H	1:e:470:HIS:HE1	1.61	0.47
1:f:108:THR:OG1	1:f:110:TRP:HD1	1.97	0.47
1:g:108:THR:OG1	1:g:110:TRP:HD1	1.97	0.47
1:h:315:GLY:HA3	1:h:417:LEU:O	2.14	0.47
1:h:460:ASP:HA	1:h:464:LYS:HE3	1.95	0.47
1:i:145:THR:OG1	1:i:514:THR:OG1	2.27	0.47
1:j:108:THR:OG1	1:j:110:TRP:HD1	1.97	0.47
1:k:460:ASP:HA	1:k:464:LYS:HE3	1.95	0.47
1:l:387:ASP:OD1	1:l:387:ASP:N	2.43	0.47
1:m:315:GLY:HA3	1:m:417:LEU:O	2.14	0.47
1:o:287:THR:HG21	1:o:569:MET:CE	2.43	0.47
1:o:376:LYS:HG3	1:o:395:TRP:HB2	1.96	0.47
1:r:315:GLY:HA3	1:r:417:LEU:O	2.14	0.47
1:s:453:ALA:H	1:s:470:HIS:HE1	1.61	0.47
1:t:376:LYS:HG3	1:t:395:TRP:HB2	1.96	0.47
1:v:315:GLY:HA3	1:v:417:LEU:O	2.14	0.47
1:w:279:TYR:HB3	1:w:562:ARG:HG2	1.95	0.47
1:w:342:HIS:CE1	1:x:406:ASN:CB	2.95	0.47
1:x:122:MET:O	1:x:449:TYR:OH	2.31	0.47
1:x:376:LYS:HG3	1:x:395:TRP:HB2	1.96	0.47
1:y:217:TRP:CG	1:y:239:ARG:HD2	2.49	0.47
1:z:335:SER:H	1:z:435:THR:CG2	2.13	0.47
1:C:108:THR:OG1	1:C:110:TRP:HD1	1.97	0.47
1:C:315:GLY:HA3	1:C:417:LEU:O	2.14	0.47
1:D:217:TRP:CG	1:D:239:ARG:HD2	2.50	0.47
1:D:376:LYS:HG3	1:D:395:TRP:HB2	1.96	0.47
1:E:406:ASN:CB	1:Q:342:HIS:CE1	2.97	0.47
1:F:244:GLN:NE2	1:Q:281:TRP:HE1	2.12	0.47
1:F:287:THR:HG21	1:F:569:MET:CE	2.43	0.47
1:F:315:GLY:HA3	1:F:417:LEU:O	2.14	0.47
1:F:376:LYS:HG3	1:F:395:TRP:HB2	1.96	0.47
1:G:477:ASP:OD1	1:G:478:GLY:N	2.43	0.47
1:K:406:ASN:CG	1:1:342:HIS:HE1	2.16	0.47
1:K:453:ALA:H	1:K:470:HIS:HE1	1.61	0.47
1:M:74:GLU:OE2	1:3:381:TYR:OH	2.32	0.47
1:P:381:TYR:OH	1:Q:74:GLU:OE2	2.32	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Q:287:THR:HG21	1:Q:569:MET:CE	2.43	0.47
1:R:287:THR:HG21	1:R:569:MET:CE	2.43	0.47
1:R:315:GLY:HA3	1:R:417:LEU:O	2.14	0.47
1:V:108:THR:OG1	1:V:110:TRP:HD1	1.97	0.47
1:V:315:GLY:HA3	1:V:417:LEU:O	2.14	0.47
1:W:279:TYR:HB3	1:W:562:ARG:HG2	1.95	0.47
1:Y:376:LYS:HG3	1:Y:395:TRP:HB2	1.96	0.47
1:1:315:GLY:HA3	1:1:417:LEU:O	2.14	0.47
1:2:108:THR:OG1	1:2:110:TRP:HD1	1.97	0.47
1:2:376:LYS:HG3	1:2:395:TRP:HB2	1.96	0.47
1:3:108:THR:OG1	1:3:110:TRP:HD1	1.97	0.47
1:5:453:ALA:H	1:5:470:HIS:HE1	1.61	0.47
1:6:217:TRP:CG	1:6:239:ARG:HD2	2.50	0.47
1:6:406:ASN:CG	1:b:342:HIS:HE1	2.17	0.47
1:c:376:LYS:HG3	1:c:395:TRP:HB2	1.96	0.47
1:e:108:THR:OG1	1:e:110:TRP:HD1	1.97	0.47
1:f:217:TRP:CG	1:f:239:ARG:HD2	2.49	0.47
1:g:200:ILE:HD11	1:g:203:ARG:CG	2.38	0.47
1:j:315:GLY:HA3	1:j:417:LEU:O	2.14	0.47
1:j:453:ALA:H	1:j:470:HIS:HE1	1.61	0.47
1:k:442:VAL:O	1:l:461:THR:HB	2.13	0.47
1:l:108:THR:OG1	1:l:110:TRP:HD1	1.97	0.47
1:l:477:ASP:OD1	1:l:478:GLY:N	2.43	0.47
1:n:156:LYS:HD3	1:n:165:THR:HG22	1.95	0.47
1:n:217:TRP:CG	1:n:239:ARG:HD2	2.49	0.47
1:o:108:THR:OG1	1:o:110:TRP:HD1	1.97	0.47
1:q:217:TRP:CG	1:q:239:ARG:HD2	2.50	0.47
1:q:376:LYS:HG3	1:q:395:TRP:HB2	1.96	0.47
1:t:315:GLY:HA3	1:t:417:LEU:O	2.14	0.47
1:y:287:THR:HG21	1:y:569:MET:CE	2.43	0.47
1:0:108:THR:OG1	1:0:110:TRP:HD1	1.97	0.47
1:G:287:THR:HG21	1:G:569:MET:CE	2.43	0.47
1:H:122:MET:O	1:H:449:TYR:OH	2.31	0.47
1:J:217:TRP:CG	1:J:239:ARG:HD2	2.50	0.47
1:L:279:TYR:HB3	1:L:562:ARG:HG2	1.96	0.47
1:N:342:HIS:ND1	1:N:342:HIS:C	2.73	0.47
1:P:217:TRP:CG	1:P:239:ARG:HD2	2.49	0.47
1:Q:217:TRP:CG	1:Q:239:ARG:HD2	2.50	0.47
1:S:217:TRP:CG	1:S:239:ARG:HD2	2.50	0.47
1:S:315:GLY:HA3	1:S:417:LEU:O	2.14	0.47
1:V:75:TYR:OH	1:V:249:GLU:OE1	2.27	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:X:315:GLY:HA3	1:X:417:LEU:O	2.14	0.47
1:Y:217:TRP:CG	1:Y:239:ARG:HD2	2.50	0.47
1:Z:376:LYS:HG3	1:Z:395:TRP:HB2	1.96	0.47
1:1:331:HIS:CE1	1:0:342:HIS:HD2	2.29	0.47
1:3:217:TRP:CG	1:3:239:ARG:HD2	2.50	0.47
1:4:108:THR:OG1	1:4:110:TRP:HD1	1.97	0.47
1:a:381:TYR:OH	1:u:74:GLU:OE2	2.32	0.47
1:f:315:GLY:HA3	1:f:417:LEU:O	2.14	0.47
1:i:342:HIS:ND1	1:i:342:HIS:C	2.73	0.47
1:m:217:TRP:CG	1:m:239:ARG:HD2	2.50	0.47
1:m:460:ASP:HA	1:m:464:LYS:HE3	1.95	0.47
1:n:461:THR:HB	1:p:442:VAL:O	2.12	0.47
1:o:315:GLY:HA3	1:o:417:LEU:O	2.14	0.47
1:p:376:LYS:HG3	1:p:395:TRP:HB2	1.96	0.47
1:r:279:TYR:HB3	1:r:562:ARG:HG2	1.96	0.47
1:r:342:HIS:ND1	1:r:342:HIS:C	2.73	0.47
1:s:217:TRP:CG	1:s:239:ARG:HD2	2.50	0.47
1:s:380:ASP:OD1	1:s:381:TYR:N	2.45	0.47
1:u:156:LYS:HD3	1:u:165:THR:HG22	1.95	0.47
1:u:460:ASP:HA	1:u:464:LYS:HE3	1.95	0.47
1:y:315:GLY:HA3	1:y:417:LEU:O	2.14	0.47
1:z:217:TRP:CG	1:z:239:ARG:HD2	2.50	0.47
1:z:315:GLY:HA3	1:z:417:LEU:O	2.14	0.47
1:0:315:GLY:HA3	1:0:417:LEU:O	2.14	0.47
1:0:460:ASP:HA	1:0:464:LYS:HE3	1.95	0.47
1:B:376:LYS:HG3	1:B:395:TRP:HB2	1.96	0.47
1:C:460:ASP:HA	1:C:464:LYS:HE3	1.95	0.47
1:D:74:GLU:OE2	1:E:381:TYR:OH	2.31	0.47
1:D:404:GLN:HE22	1:D:443:ASP:H	1.63	0.47
1:E:376:LYS:HG3	1:E:395:TRP:HB2	1.96	0.47
1:F:108:THR:OG1	1:F:110:TRP:HD1	1.97	0.47
1:I:314:TRP:CZ2	1:I:327:VAL:HG23	2.50	0.47
1:I:315:GLY:HA3	1:I:417:LEU:O	2.14	0.47
1:L:342:HIS:ND1	1:L:342:HIS:C	2.73	0.47
1:N:279:TYR:HB3	1:N:562:ARG:HG2	1.96	0.47
1:O:74:GLU:OE2	1:4:381:TYR:OH	2.32	0.47
1:O:314:TRP:CZ2	1:O:327:VAL:HG23	2.50	0.47
1:O:342:HIS:ND1	1:O:342:HIS:C	2.73	0.47
1:O:404:GLN:HE22	1:O:443:ASP:H	1.63	0.47
1:P:39:THR:HB	1:P:147:ASP:HB2	1.97	0.47
1:Q:404:GLN:HE22	1:Q:443:ASP:H	1.63	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:R:342:HIS:HD2	1:U:331:HIS:CE1	2.29	0.47
1:S:108:THR:OG1	1:S:110:TRP:HD1	1.97	0.47
1:T:342:HIS:ND1	1:T:342:HIS:C	2.73	0.47
1:X:217:TRP:CG	1:X:239:ARG:HD2	2.49	0.47
1:X:381:TYR:OH	1:Y:74:GLU:OE2	2.32	0.47
1:Y:342:HIS:ND1	1:Y:342:HIS:C	2.73	0.47
1:Y:380:ASP:OD1	1:Y:381:TYR:N	2.45	0.47
1:Z:74:GLU:OE2	1:1:381:TYR:OH	2.32	0.47
1:Z:217:TRP:CG	1:Z:239:ARG:HD2	2.50	0.47
1:Z:342:HIS:ND1	1:Z:342:HIS:C	2.73	0.47
1:1:108:THR:OG1	1:1:110:TRP:HD1	1.97	0.47
1:4:453:ALA:H	1:4:470:HIS:HE1	1.61	0.47
1:a:376:LYS:HG3	1:a:395:TRP:HB2	1.96	0.47
1:b:279:TYR:HB3	1:b:562:ARG:HG2	1.96	0.47
1:b:342:HIS:ND1	1:b:342:HIS:C	2.73	0.47
1:c:314:TRP:CZ2	1:c:327:VAL:HG23	2.50	0.47
1:e:460:ASP:HA	1:e:464:LYS:HE3	1.95	0.47
1:g:217:TRP:CG	1:g:239:ARG:HD2	2.49	0.47
1:h:217:TRP:CG	1:h:239:ARG:HD2	2.50	0.47
1:k:342:HIS:ND1	1:k:342:HIS:C	2.73	0.47
1:k:404:GLN:HE22	1:k:443:ASP:H	1.63	0.47
1:l:217:TRP:CG	1:l:239:ARG:HD2	2.49	0.47
1:o:200:ILE:HD11	1:o:203:ARG:CG	2.38	0.47
1:t:314:TRP:CZ2	1:t:327:VAL:HG23	2.50	0.47
1:v:287:THR:HG21	1:v:569:MET:CE	2.43	0.47
1:y:342:HIS:ND1	1:y:342:HIS:C	2.73	0.47
1:y:342:HIS:HD2	1:7:331:HIS:CE1	2.29	0.47
1:0:75:TYR:OH	1:0:249:GLU:OE1	2.27	0.47
1:0:468:SER:OG	1:0:471:ALA:O	2.21	0.47
1:A:108:THR:OG1	1:A:110:TRP:HD1	1.97	0.47
1:A:461:THR:HB	1:I:442:VAL:O	2.14	0.47
1:H:381:TYR:OH	1:I:74:GLU:OE2	2.32	0.47
1:M:404:GLN:HE22	1:M:443:ASP:H	1.63	0.47
1:O:315:GLY:HA3	1:O:417:LEU:O	2.14	0.47
1:P:108:THR:OG1	1:P:110:TRP:HD1	1.97	0.47
1:P:376:LYS:HG3	1:P:395:TRP:HB2	1.96	0.47
1:P:380:ASP:OD1	1:P:381:TYR:N	2.45	0.47
1:R:342:HIS:ND1	1:R:342:HIS:C	2.73	0.47
1:T:404:GLN:HE22	1:T:443:ASP:H	1.63	0.47
1:U:200:ILE:HD11	1:U:203:ARG:CG	2.38	0.47
1:U:314:TRP:CZ2	1:U:327:VAL:HG23	2.50	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:U:460:ASP:HA	1:U:464:LYS:HE3	1.95	0.47
1:X:314:TRP:CZ2	1:X:327:VAL:HG23	2.50	0.47
1:X:342:HIS:HD2	1:5:331:HIS:CE1	2.29	0.47
1:Y:453:ALA:H	1:Y:470:HIS:HE1	1.61	0.47
1:Z:380:ASP:OD1	1:Z:381:TYR:N	2.45	0.47
1:1:217:TRP:CG	1:1:239:ARG:HD2	2.50	0.47
1:1:314:TRP:CZ2	1:1:327:VAL:HG23	2.50	0.47
1:2:217:TRP:CG	1:2:239:ARG:HD2	2.49	0.47
1:2:314:TRP:CZ2	1:2:327:VAL:HG23	2.50	0.47
1:4:39:THR:HB	1:4:147:ASP:HB2	1.97	0.47
1:4:376:LYS:HG3	1:4:395:TRP:HB2	1.96	0.47
1:c:217:TRP:CG	1:c:239:ARG:HD2	2.50	0.47
1:d:122:MET:O	1:d:449:TYR:OH	2.31	0.47
1:d:404:GLN:HE22	1:d:443:ASP:H	1.63	0.47
1:e:314:TRP:CZ2	1:e:327:VAL:HG23	2.50	0.47
1:g:387:ASP:OD1	1:g:387:ASP:N	2.43	0.47
1:g:477:ASP:OD1	1:g:478:GLY:N	2.43	0.47
1:i:404:GLN:HE22	1:i:443:ASP:H	1.63	0.47
1:j:39:THR:HB	1:j:147:ASP:HB2	1.97	0.47
1:j:217:TRP:CG	1:j:239:ARG:HD2	2.49	0.47
1:j:376:LYS:HG3	1:j:395:TRP:HB2	1.96	0.47
1:j:381:TYR:OH	1:k:74:GLU:OE2	2.32	0.47
1:k:314:TRP:CZ2	1:k:327:VAL:HG23	2.50	0.47
1:n:404:GLN:HE22	1:n:443:ASP:H	1.63	0.47
1:o:460:ASP:HA	1:o:464:LYS:HE3	1.95	0.47
1:p:381:TYR:OH	1:q:74:GLU:OE2	2.32	0.47
1:q:404:GLN:HE22	1:q:443:ASP:H	1.63	0.47
1:r:468:SER:OG	1:r:471:ALA:O	2.22	0.47
1:s:39:THR:HB	1:s:147:ASP:HB2	1.97	0.47
1:s:376:LYS:HG3	1:s:395:TRP:HB2	1.96	0.47
1:s:460:ASP:HA	1:s:464:LYS:HE3	1.95	0.47
1:u:108:THR:OG1	1:u:110:TRP:HD1	1.97	0.47
1:7:314:TRP:CZ2	1:7:327:VAL:HG23	2.50	0.47
1:7:315:GLY:HA3	1:7:417:LEU:O	2.14	0.47
1:C:217:TRP:CG	1:C:239:ARG:HD2	2.50	0.47
1:C:314:TRP:CZ2	1:C:327:VAL:HG23	2.50	0.47
1:F:342:HIS:ND1	1:F:342:HIS:C	2.73	0.47
1:G:217:TRP:CG	1:G:239:ARG:HD2	2.50	0.47
1:J:381:TYR:OH	1:1:74:GLU:OE2	2.32	0.47
1:K:331:HIS:CE1	1:1:342:HIS:HD2	2.29	0.47
1:L:314:TRP:CZ2	1:L:327:VAL:HG23	2.50	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:315:GLY:HA3	1:L:417:LEU:O	2.14	0.47
1:M:122:MET:O	1:M:449:TYR:OH	2.31	0.47
1:P:460:ASP:HA	1:P:464:LYS:HE3	1.95	0.47
1:Q:460:ASP:HA	1:Q:464:LYS:HE3	1.95	0.47
1:R:108:THR:OG1	1:R:110:TRP:HD1	1.97	0.47
1:T:376:LYS:HG3	1:T:395:TRP:HB2	1.96	0.47
1:U:315:GLY:HA3	1:U:417:LEU:O	2.14	0.47
1:U:342:HIS:ND1	1:U:342:HIS:C	2.73	0.47
1:U:453:ALA:H	1:U:470:HIS:HE1	1.61	0.47
1:V:342:HIS:HD2	1:X:331:HIS:CE1	2.29	0.47
1:X:74:GLU:OE2	1:6:381:TYR:OH	2.32	0.47
1:Z:453:ALA:H	1:Z:470:HIS:HE1	1.61	0.47
1:2:413:HIS:CE1	1:2:428:TRP:HB2	2.50	0.47
1:4:217:TRP:CG	1:4:239:ARG:HD2	2.50	0.47
1:a:279:TYR:HB3	1:a:562:ARG:HG2	1.96	0.47
1:a:453:ALA:H	1:a:470:HIS:HE1	1.61	0.47
1:b:314:TRP:CZ2	1:b:327:VAL:HG23	2.50	0.47
1:b:315:GLY:HA3	1:b:417:LEU:O	2.14	0.47
1:d:453:ALA:H	1:d:470:HIS:HE1	1.61	0.47
1:g:342:HIS:ND1	1:g:342:HIS:C	2.73	0.47
1:i:108:THR:OG1	1:i:110:TRP:HD1	1.97	0.47
1:k:315:GLY:HA3	1:k:417:LEU:O	2.14	0.47
1:l:39:THR:HB	1:l:147:ASP:HB2	1.97	0.47
1:l:342:HIS:ND1	1:l:342:HIS:C	2.73	0.47
1:o:342:HIS:ND1	1:o:342:HIS:C	2.73	0.47
1:s:108:THR:OG1	1:s:110:TRP:HD1	1.97	0.47
1:t:74:GLU:OE2	1:x:381:TYR:OH	2.32	0.47
1:t:279:TYR:HB3	1:t:562:ARG:HG2	1.95	0.47
1:u:315:GLY:HA3	1:u:417:LEU:O	2.14	0.47
1:y:108:THR:OG1	1:y:110:TRP:HD1	1.97	0.47
1:z:39:THR:HB	1:z:147:ASP:HB2	1.97	0.47
1:z:108:THR:OG1	1:z:110:TRP:HD1	1.97	0.47
1:7:453:ALA:H	1:7:470:HIS:HE1	1.61	0.47
1:7:460:ASP:HA	1:7:464:LYS:HE3	1.95	0.47
1:A:39:THR:HB	1:A:147:ASP:HB2	1.97	0.47
1:A:279:TYR:HB3	1:A:562:ARG:HG2	1.96	0.47
1:A:315:GLY:HA3	1:A:417:LEU:O	2.14	0.47
1:A:376:LYS:HG3	1:A:395:TRP:HB2	1.96	0.47
1:B:39:THR:HB	1:B:147:ASP:HB2	1.97	0.47
1:B:279:TYR:HB3	1:B:562:ARG:HG2	1.96	0.47
1:B:453:ALA:H	1:B:470:HIS:HE1	1.61	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:331:HIS:CE1	1:2:342:HIS:HD2	2.29	0.47
1:D:108:THR:OG1	1:D:110:TRP:HD1	1.97	0.47
1:D:314:TRP:CZ2	1:D:327:VAL:HG23	2.50	0.47
1:E:39:THR:HB	1:E:147:ASP:HB2	1.97	0.47
1:E:108:THR:HG21	1:E:210:TYR:HD2	1.80	0.47
1:E:289:SER:HA	1:Q:188:VAL:CG2	2.44	0.47
1:F:314:TRP:CZ2	1:F:327:VAL:HG23	2.50	0.47
1:F:460:ASP:HA	1:F:464:LYS:HE3	1.95	0.47
1:H:108:THR:OG1	1:H:110:TRP:HD1	1.97	0.47
1:H:217:TRP:CG	1:H:239:ARG:HD2	2.50	0.47
1:H:460:ASP:HA	1:H:464:LYS:HE3	1.95	0.47
1:I:268:TYR:CD2	1:I:480:PRO:HB3	2.50	0.47
1:I:279:TYR:HB3	1:I:562:ARG:HG2	1.96	0.47
1:I:453:ALA:H	1:I:470:HIS:HE1	1.61	0.47
1:J:39:THR:HB	1:J:147:ASP:HB2	1.97	0.47
1:J:122:MET:O	1:J:449:TYR:OH	2.31	0.47
1:J:245:PHE:CZ	1:J:247:PRO:HG3	2.50	0.47
1:K:217:TRP:CG	1:K:239:ARG:HD2	2.50	0.47
1:K:314:TRP:CZ2	1:K:327:VAL:HG23	2.50	0.47
1:K:413:HIS:CE1	1:K:428:TRP:HB2	2.50	0.47
1:L:200:ILE:HD11	1:L:203:ARG:CG	2.38	0.47
1:M:217:TRP:CG	1:M:239:ARG:HD2	2.50	0.47
1:M:381:TYR:OH	1:N:74:GLU:OE2	2.32	0.47
1:M:453:ALA:H	1:M:470:HIS:HE1	1.61	0.47
1:N:108:THR:OG1	1:N:110:TRP:HD1	1.97	0.47
1:O:108:THR:OG1	1:O:110:TRP:HD1	1.97	0.47
1:O:217:TRP:CG	1:O:239:ARG:HD2	2.50	0.47
1:O:245:PHE:CZ	1:O:247:PRO:HG3	2.50	0.47
1:O:268:TYR:CD2	1:O:480:PRO:HB3	2.50	0.47
1:O:342:HIS:HD2	1:h:331:HIS:CE1	2.29	0.47
1:O:470:HIS:HB3	1:h:329:ASN:OD1	2.15	0.47
1:P:404:GLN:HE22	1:P:443:ASP:H	1.63	0.47
1:R:460:ASP:HA	1:R:464:LYS:HE3	1.95	0.47
1:S:39:THR:HB	1:S:147:ASP:HB2	1.97	0.47
1:T:108:THR:OG1	1:T:110:TRP:HD1	1.97	0.47
1:T:413:HIS:CE1	1:T:428:TRP:HB2	2.50	0.47
1:U:217:TRP:CG	1:U:239:ARG:HD2	2.50	0.47
1:U:376:LYS:HG3	1:U:395:TRP:HB2	1.96	0.47
1:U:404:GLN:HE22	1:U:443:ASP:H	1.63	0.47
1:V:376:LYS:HG3	1:V:395:TRP:HB2	1.96	0.47
1:V:404:GLN:HE22	1:V:443:ASP:H	1.63	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:V:413:HIS:CE1	1:V:428:TRP:HB2	2.50	0.47
1:W:314:TRP:CZ2	1:W:327:VAL:HG23	2.50	0.47
1:W:342:HIS:ND1	1:W:342:HIS:C	2.73	0.47
1:W:376:LYS:HG3	1:W:395:TRP:HB2	1.96	0.47
1:X:460:ASP:HA	1:X:464:LYS:HE3	1.95	0.47
1:Y:39:THR:HB	1:Y:147:ASP:HB2	1.97	0.47
1:Y:413:HIS:CE1	1:Y:428:TRP:HB2	2.50	0.47
1:Y:460:ASP:HA	1:Y:464:LYS:HE3	1.95	0.47
1:Z:39:THR:HB	1:Z:147:ASP:HB2	1.97	0.47
1:Z:413:HIS:CE1	1:Z:428:TRP:HB2	2.50	0.47
1:Z:460:ASP:HA	1:Z:464:LYS:HE3	1.95	0.47
1:1:460:ASP:HA	1:1:464:LYS:HE3	1.95	0.47
1:2:108:THR:HG21	1:2:210:TYR:HD2	1.80	0.47
1:2:245:PHE:CZ	1:2:247:PRO:HG3	2.50	0.47
1:2:287:THR:HG21	1:2:569:MET:CE	2.43	0.47
1:4:314:TRP:CZ2	1:4:327:VAL:HG23	2.50	0.47
1:5:217:TRP:CG	1:5:239:ARG:HD2	2.50	0.47
1:5:314:TRP:CZ2	1:5:327:VAL:HG23	2.50	0.47
1:5:413:HIS:CE1	1:5:428:TRP:HB2	2.50	0.47
1:6:39:THR:HB	1:6:147:ASP:HB2	1.97	0.47
1:6:122:MET:O	1:6:449:TYR:OH	2.31	0.47
1:6:245:PHE:CZ	1:6:247:PRO:HG3	2.50	0.47
1:b:39:THR:HB	1:b:147:ASP:HB2	1.97	0.47
1:b:268:TYR:CD2	1:b:480:PRO:HB3	2.50	0.47
1:c:108:THR:HG21	1:c:210:TYR:HD2	1.80	0.47
1:c:245:PHE:CZ	1:c:247:PRO:HG3	2.50	0.47
1:c:413:HIS:CE1	1:c:428:TRP:HB2	2.50	0.47
1:c:468:SER:OG	1:c:471:ALA:O	2.21	0.47
1:d:217:TRP:CG	1:d:239:ARG:HD2	2.50	0.47
1:d:376:LYS:HG3	1:d:395:TRP:HB2	1.96	0.47
1:d:381:TYR:OH	1:r:74:GLU:OE2	2.32	0.47
1:e:217:TRP:CG	1:e:239:ARG:HD2	2.50	0.47
1:g:39:THR:HB	1:g:147:ASP:HB2	1.97	0.47
1:g:75:TYR:OH	1:g:249:GLU:OE1	2.27	0.47
1:g:315:GLY:HA3	1:g:417:LEU:O	2.14	0.47
1:h:287:THR:HG21	1:h:569:MET:CE	2.43	0.47
1:h:404:GLN:HE22	1:h:443:ASP:H	1.63	0.47
1:i:376:LYS:HG3	1:i:395:TRP:HB2	1.96	0.47
1:i:413:HIS:CE1	1:i:428:TRP:HB2	2.50	0.47
1:k:108:THR:OG1	1:k:110:TRP:HD1	1.97	0.47
1:k:217:TRP:CG	1:k:239:ARG:HD2	2.50	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:k:245:PHE:CZ	1:k:247:PRO:HG3	2.50	0.47
1:k:268:TYR:CD2	1:k:480:PRO:HB3	2.50	0.47
1:k:470:HIS:HB3	1:m:329:ASN:OD1	2.15	0.47
1:l:75:TYR:OH	1:l:249:GLU:OE1	2.27	0.47
1:l:156:LYS:HD3	1:l:165:THR:HG22	1.95	0.47
1:l:315:GLY:HA3	1:l:417:LEU:O	2.14	0.47
1:m:404:GLN:HE22	1:m:443:ASP:H	1.63	0.47
1:n:39:THR:HB	1:n:147:ASP:HB2	1.97	0.47
1:n:460:ASP:HA	1:n:464:LYS:HE3	1.95	0.47
1:o:217:TRP:CG	1:o:239:ARG:HD2	2.49	0.47
1:o:314:TRP:CZ2	1:o:327:VAL:HG23	2.50	0.47
1:p:315:GLY:HA3	1:p:417:LEU:O	2.14	0.47
1:q:108:THR:OG1	1:q:110:TRP:HD1	1.97	0.47
1:q:314:TRP:CZ2	1:q:327:VAL:HG23	2.50	0.47
1:r:108:THR:OG1	1:r:110:TRP:HD1	1.97	0.47
1:r:404:GLN:HE22	1:r:443:ASP:H	1.63	0.47
1:s:413:HIS:CE1	1:s:428:TRP:HB2	2.50	0.47
1:t:245:PHE:CZ	1:t:247:PRO:HG3	2.50	0.47
1:t:268:TYR:CD2	1:t:480:PRO:HB3	2.50	0.47
1:u:39:THR:HB	1:u:147:ASP:HB2	1.97	0.47
1:u:108:THR:HG21	1:u:210:TYR:HD2	1.80	0.47
1:u:279:TYR:HB3	1:u:562:ARG:HG2	1.96	0.47
1:u:376:LYS:HG3	1:u:395:TRP:HB2	1.96	0.47
1:u:413:HIS:CE1	1:u:428:TRP:HB2	2.50	0.47
1:v:217:TRP:CG	1:v:239:ARG:HD2	2.50	0.47
1:w:314:TRP:CZ2	1:w:327:VAL:HG23	2.50	0.47
1:w:342:HIS:ND1	1:w:342:HIS:C	2.73	0.47
1:w:376:LYS:HG3	1:w:395:TRP:HB2	1.96	0.47
1:w:477:ASP:OD1	1:w:478:GLY:N	2.43	0.47
1:x:108:THR:OG1	1:x:110:TRP:HD1	1.97	0.47
1:x:217:TRP:CG	1:x:239:ARG:HD2	2.50	0.47
1:x:460:ASP:HA	1:x:464:LYS:HE3	1.95	0.47
1:y:245:PHE:CZ	1:y:247:PRO:HG3	2.50	0.47
1:z:268:TYR:CD2	1:z:480:PRO:HB3	2.50	0.47
1:7:200:ILE:HD11	1:7:203:ARG:CG	2.38	0.47
1:7:217:TRP:CG	1:7:239:ARG:HD2	2.50	0.47
1:7:342:HIS:ND1	1:7:342:HIS:C	2.73	0.47
1:7:404:GLN:HE22	1:7:443:ASP:H	1.63	0.47
1:0:376:LYS:HG3	1:0:395:TRP:HB2	1.96	0.47
1:0:404:GLN:HE22	1:0:443:ASP:H	1.63	0.47
1:A:74:GLU:OE2	1:B:381:TYR:OH	2.32	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:108:THR:HG21	1:A:210:TYR:HD2	1.80	0.47
1:A:413:HIS:CE1	1:A:428:TRP:HB2	2.50	0.47
1:E:315:GLY:HA3	1:E:417:LEU:O	2.14	0.47
1:F:188:VAL:CG2	1:Q:289:SER:HA	2.45	0.47
1:F:217:TRP:CG	1:F:239:ARG:HD2	2.50	0.47
1:G:108:THR:OG1	1:G:110:TRP:HD1	1.97	0.47
1:I:245:PHE:CZ	1:I:247:PRO:HG3	2.50	0.47
1:L:39:THR:HB	1:L:147:ASP:HB2	1.97	0.47
1:L:245:PHE:CZ	1:L:247:PRO:HG3	2.50	0.47
1:L:268:TYR:CD2	1:L:480:PRO:HB3	2.50	0.47
1:M:245:PHE:CZ	1:M:247:PRO:HG3	2.50	0.47
1:M:279:TYR:HB3	1:M:562:ARG:HG2	1.96	0.47
1:M:413:HIS:CE1	1:M:428:TRP:HB2	2.50	0.47
1:N:404:GLN:HE22	1:N:443:ASP:H	1.63	0.47
1:P:342:HIS:ND1	1:P:342:HIS:C	2.73	0.47
1:P:413:HIS:CE1	1:P:428:TRP:HB2	2.50	0.47
1:Q:39:THR:HB	1:Q:147:ASP:HB2	1.97	0.47
1:R:245:PHE:CZ	1:R:247:PRO:HG3	2.50	0.47
1:R:314:TRP:CZ2	1:R:327:VAL:HG23	2.50	0.47
1:S:268:TYR:CD2	1:S:480:PRO:HB3	2.50	0.47
1:W:245:PHE:CZ	1:W:247:PRO:HG3	2.50	0.47
1:2:342:HIS:ND1	1:2:342:HIS:C	2.73	0.47
1:2:404:GLN:HE22	1:2:443:ASP:H	1.63	0.47
1:4:108:THR:HG21	1:4:210:TYR:HD2	1.80	0.47
1:4:413:HIS:CE1	1:4:428:TRP:HB2	2.50	0.47
1:a:39:THR:HB	1:a:147:ASP:HB2	1.97	0.47
1:b:245:PHE:CZ	1:b:247:PRO:HG3	2.50	0.47
1:d:245:PHE:CZ	1:d:247:PRO:HG3	2.50	0.47
1:d:413:HIS:CE1	1:d:428:TRP:HB2	2.50	0.47
1:g:156:LYS:HD3	1:g:165:THR:HG22	1.95	0.47
1:j:108:THR:HG21	1:j:210:TYR:HD2	1.80	0.47
1:j:314:TRP:CZ2	1:j:327:VAL:HG23	2.50	0.47
1:k:342:HIS:HD2	1:m:331:HIS:CE1	2.29	0.47
1:m:287:THR:HG21	1:m:569:MET:CE	2.43	0.47
1:p:39:THR:HB	1:p:147:ASP:HB2	1.97	0.47
1:p:108:THR:HG21	1:p:210:TYR:HD2	1.80	0.47
1:q:329:ASN:OD1	1:r:470:HIS:HB3	2.15	0.47
1:s:404:GLN:HE22	1:s:443:ASP:H	1.63	0.47
1:t:413:HIS:CE1	1:t:428:TRP:HB2	2.50	0.47
1:t:453:ALA:H	1:t:470:HIS:HE1	1.61	0.47
1:u:314:TRP:CZ2	1:u:327:VAL:HG23	2.50	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:w:245:PHE:CZ	1:w:247:PRO:HG3	2.50	0.47
1:y:460:ASP:HA	1:y:464:LYS:HE3	1.95	0.47
1:7:108:THR:HG21	1:7:210:TYR:HD2	1.80	0.47
1:7:376:LYS:HG3	1:7:395:TRP:HB2	1.96	0.47
1:0:93:GLN:HB2	1:0:229:ASN:O	2.15	0.47
1:A:314:TRP:CZ2	1:A:327:VAL:HG23	2.50	0.47
1:C:470:HIS:HB3	1:M:329:ASN:OD1	2.15	0.47
1:D:329:ASN:OD1	1:N:470:HIS:HB3	2.15	0.47
1:E:93:GLN:HB2	1:E:229:ASN:O	2.15	0.47
1:E:413:HIS:CE1	1:E:428:TRP:HB2	2.50	0.47
1:F:393:GLN:NE2	1:Q:318:SER:HB2	2.30	0.47
1:H:39:THR:HB	1:H:147:ASP:HB2	1.97	0.47
1:H:200:ILE:HD11	1:H:203:ARG:CG	2.38	0.47
1:H:342:HIS:ND1	1:H:342:HIS:C	2.73	0.47
1:I:342:HIS:ND1	1:I:342:HIS:C	2.73	0.47
1:I:413:HIS:CE1	1:I:428:TRP:HB2	2.50	0.47
1:J:268:TYR:CD2	1:J:480:PRO:HB3	2.50	0.47
1:L:108:THR:OG1	1:L:110:TRP:HD1	1.97	0.47
1:M:376:LYS:HG3	1:M:395:TRP:HB2	1.96	0.47
1:N:217:TRP:CG	1:N:239:ARG:HD2	2.49	0.47
1:N:245:PHE:CZ	1:N:247:PRO:HG3	2.50	0.47
1:N:316:ASP:O	1:N:418:SER:HA	2.15	0.47
1:P:108:THR:HG21	1:P:210:TYR:HD2	1.80	0.47
1:P:200:ILE:HD11	1:P:203:ARG:CG	2.38	0.47
1:T:39:THR:HB	1:T:147:ASP:HB2	1.97	0.47
1:U:108:THR:HG21	1:U:210:TYR:HD2	1.80	0.47
1:W:108:THR:HG21	1:W:210:TYR:HD2	1.80	0.47
1:W:477:ASP:OD1	1:W:478:GLY:N	2.43	0.47
1:3:93:GLN:HB2	1:3:229:ASN:O	2.15	0.47
1:6:268:TYR:CD2	1:6:480:PRO:HB3	2.50	0.47
1:6:329:ASN:OD1	1:b:470:HIS:HB3	2.15	0.47
1:a:404:GLN:HE22	1:a:443:ASP:H	1.63	0.47
1:c:342:HIS:ND1	1:c:342:HIS:C	2.73	0.47
1:d:329:ASN:OD1	1:e:470:HIS:HB3	2.15	0.47
1:f:74:GLU:OE2	1:h:381:TYR:OH	2.32	0.47
1:f:93:GLN:HB2	1:f:229:ASN:O	2.15	0.47
1:g:413:HIS:CE1	1:g:428:TRP:HB2	2.50	0.47
1:h:93:GLN:HB2	1:h:229:ASN:O	2.15	0.47
1:h:342:HIS:ND1	1:h:342:HIS:C	2.73	0.47
1:i:39:THR:HB	1:i:147:ASP:HB2	1.97	0.47
1:j:413:HIS:CE1	1:j:428:TRP:HB2	2.50	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:l:314:TRP:CZ2	1:l:327:VAL:HG23	2.50	0.47
1:m:93:GLN:HB2	1:m:229:ASN:O	2.15	0.47
1:m:108:THR:OG1	1:m:110:TRP:HD1	1.97	0.47
1:m:268:TYR:CD2	1:m:480:PRO:HB3	2.50	0.47
1:o:74:GLU:OE2	1:y:381:TYR:OH	2.32	0.47
1:p:413:HIS:CE1	1:p:428:TRP:HB2	2.50	0.47
1:r:217:TRP:CG	1:r:239:ARG:HD2	2.49	0.47
1:r:268:TYR:CD2	1:r:480:PRO:HB3	2.50	0.47
1:s:342:HIS:ND1	1:s:342:HIS:C	2.73	0.47
1:t:108:THR:OG1	1:t:110:TRP:HD1	1.97	0.47
1:t:342:HIS:ND1	1:t:342:HIS:C	2.73	0.47
1:v:268:TYR:CD2	1:v:480:PRO:HB3	2.50	0.47
1:v:460:ASP:HA	1:v:464:LYS:HE3	1.95	0.47
1:w:108:THR:HG21	1:w:210:TYR:HD2	1.80	0.47
1:w:315:GLY:HA3	1:w:417:LEU:O	2.14	0.47
1:x:39:THR:HB	1:x:147:ASP:HB2	1.97	0.47
1:y:93:GLN:HB2	1:y:229:ASN:O	2.15	0.47
1:y:314:TRP:CZ2	1:y:327:VAL:HG23	2.50	0.47
1:0:413:HIS:CE1	1:0:428:TRP:HB2	2.50	0.47
1:A:465:PRO:HG3	1:I:441:ALA:HB2	1.97	0.47
1:B:315:GLY:HA3	1:B:417:LEU:O	2.14	0.47
1:B:404:GLN:HE22	1:B:443:ASP:H	1.63	0.47
1:D:93:GLN:HB2	1:D:229:ASN:O	2.15	0.47
1:E:188:VAL:HG23	1:F:288:GLY:O	2.15	0.47
1:E:245:PHE:CZ	1:E:247:PRO:HG3	2.50	0.47
1:E:435:THR:O	1:Q:336:TRP:CH2	2.68	0.47
1:G:39:THR:HB	1:G:147:ASP:HB2	1.97	0.47
1:G:245:PHE:CZ	1:G:247:PRO:HG3	2.50	0.47
1:G:268:TYR:CD2	1:G:480:PRO:HB3	2.50	0.47
1:G:460:ASP:HA	1:G:464:LYS:HE3	1.95	0.47
1:H:108:THR:HG21	1:H:210:TYR:HD2	1.80	0.47
1:H:245:PHE:CZ	1:H:247:PRO:HG3	2.50	0.47
1:I:108:THR:OG1	1:I:110:TRP:HD1	1.97	0.47
1:J:329:ASN:OD1	1:L:470:HIS:HB3	2.15	0.47
1:N:268:TYR:CD2	1:N:480:PRO:HB3	2.50	0.47
1:P:268:TYR:CD2	1:P:480:PRO:HB3	2.50	0.47
1:R:93:GLN:HB2	1:R:229:ASN:O	2.15	0.47
1:R:108:THR:HG21	1:R:210:TYR:HD2	1.80	0.47
1:R:470:HIS:HB3	1:U:329:ASN:OD1	2.15	0.47
1:S:329:ASN:OD1	1:U:470:HIS:HB3	2.15	0.47
1:T:268:TYR:CD2	1:T:480:PRO:HB3	2.50	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:U:93:GLN:HB2	1:U:229:ASN:O	2.15	0.47
1:V:93:GLN:HB2	1:V:229:ASN:O	2.15	0.47
1:V:108:THR:HG21	1:V:210:TYR:HD2	1.80	0.47
1:W:315:GLY:HA3	1:W:417:LEU:O	2.14	0.47
1:Y:314:TRP:CZ2	1:Y:327:VAL:HG23	2.50	0.47
1:Z:268:TYR:CD2	1:Z:480:PRO:HB3	2.50	0.47
1:1:93:GLN:HB2	1:1:229:ASN:O	2.15	0.47
1:3:74:GLU:OE2	1:m:381:TYR:OH	2.32	0.47
1:3:245:PHE:CZ	1:3:247:PRO:HG3	2.50	0.47
1:5:108:THR:OG1	1:5:110:TRP:HD1	1.97	0.47
1:6:376:LYS:HG3	1:6:395:TRP:HB2	1.96	0.47
1:a:315:GLY:HA3	1:a:417:LEU:O	2.14	0.47
1:b:93:GLN:HB2	1:b:229:ASN:O	2.15	0.47
1:c:287:THR:HG21	1:c:569:MET:CE	2.43	0.47
1:c:342:HIS:HD2	1:e:331:HIS:CE1	2.29	0.47
1:c:404:GLN:HE22	1:c:443:ASP:H	1.63	0.47
1:d:279:TYR:HB3	1:d:562:ARG:HG2	1.96	0.47
1:d:342:HIS:ND1	1:d:342:HIS:C	2.73	0.47
1:e:404:GLN:HE22	1:e:443:ASP:H	1.63	0.47
1:f:245:PHE:CZ	1:f:247:PRO:HG3	2.50	0.47
1:g:314:TRP:CZ2	1:g:327:VAL:HG23	2.50	0.47
1:g:329:ASN:OD1	1:h:470:HIS:HB3	2.15	0.47
1:h:268:TYR:CD2	1:h:480:PRO:HB3	2.50	0.47
1:j:342:HIS:ND1	1:j:342:HIS:C	2.73	0.47
1:k:413:HIS:CE1	1:k:428:TRP:HB2	2.50	0.47
1:l:413:HIS:CE1	1:l:428:TRP:HB2	2.50	0.47
1:m:342:HIS:ND1	1:m:342:HIS:C	2.73	0.47
1:n:470:HIS:HB3	1:p:329:ASN:OD1	2.15	0.47
1:o:316:ASP:O	1:o:418:SER:HA	2.15	0.47
1:p:93:GLN:HB2	1:p:229:ASN:O	2.15	0.47
1:p:245:PHE:CZ	1:p:247:PRO:HG3	2.50	0.47
1:r:245:PHE:CZ	1:r:247:PRO:HG3	2.50	0.47
1:r:316:ASP:O	1:r:418:SER:HA	2.15	0.47
1:s:268:TYR:CD2	1:s:480:PRO:HB3	2.50	0.47
1:s:314:TRP:CZ2	1:s:327:VAL:HG23	2.50	0.47
1:v:39:THR:HB	1:v:147:ASP:HB2	1.97	0.47
1:v:245:PHE:CZ	1:v:247:PRO:HG3	2.50	0.47
1:x:108:THR:HG21	1:x:210:TYR:HD2	1.80	0.47
1:y:108:THR:HG21	1:y:210:TYR:HD2	1.80	0.47
1:y:470:HIS:HB3	1:7:329:ASN:OD1	2.15	0.47
1:7:93:GLN:HB2	1:7:229:ASN:O	2.15	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:0:108:THR:HG21	1:0:210:TYR:HD2	1.80	0.47
1:A:217:TRP:CG	1:A:239:ARG:HD2	2.50	0.46
1:A:470:HIS:HB3	1:I:329:ASN:OD1	2.15	0.46
1:B:268:TYR:CD2	1:B:480:PRO:HB3	2.50	0.46
1:B:316:ASP:O	1:B:418:SER:HA	2.15	0.46
1:D:39:THR:HB	1:D:147:ASP:HB2	1.97	0.46
1:D:200:ILE:HD11	1:D:203:ARG:CG	2.38	0.46
1:F:316:ASP:O	1:F:418:SER:HA	2.15	0.46
1:F:342:HIS:HD2	1:Q:331:HIS:CE1	2.31	0.46
1:F:470:HIS:HB3	1:Q:329:ASN:OD1	2.15	0.46
1:K:108:THR:OG1	1:K:110:TRP:HD1	1.97	0.46
1:K:245:PHE:CZ	1:K:247:PRO:HG3	2.50	0.46
1:L:93:GLN:HB2	1:L:229:ASN:O	2.15	0.46
1:N:93:GLN:HB2	1:N:229:ASN:O	2.15	0.46
1:O:413:HIS:CE1	1:O:428:TRP:HB2	2.50	0.46
1:P:314:TRP:CZ2	1:P:327:VAL:HG23	2.50	0.46
1:P:316:ASP:O	1:P:418:SER:HA	2.15	0.46
1:S:245:PHE:CZ	1:S:247:PRO:HG3	2.50	0.46
1:S:386:ASP:OD1	1:S:387:ASP:OD1	2.34	0.46
1:T:245:PHE:CZ	1:T:247:PRO:HG3	2.50	0.46
1:T:315:GLY:HA3	1:T:417:LEU:O	2.14	0.46
1:V:217:TRP:CG	1:V:239:ARG:HD2	2.50	0.46
1:W:93:GLN:HB2	1:W:229:ASN:O	2.15	0.46
1:W:217:TRP:CG	1:W:239:ARG:HD2	2.50	0.46
1:X:93:GLN:HB2	1:X:229:ASN:O	2.15	0.46
1:X:413:HIS:CE1	1:X:428:TRP:HB2	2.50	0.46
1:Y:268:TYR:CD2	1:Y:480:PRO:HB3	2.50	0.46
1:Z:314:TRP:CZ2	1:Z:327:VAL:HG23	2.50	0.46
1:Z:404:GLN:HE22	1:Z:443:ASP:H	1.63	0.46
1:1:108:THR:HG21	1:1:210:TYR:HD2	1.80	0.46
1:1:413:HIS:CE1	1:1:428:TRP:HB2	2.50	0.46
1:2:122:MET:O	1:2:449:TYR:OH	2.31	0.46
1:4:329:ASN:OD1	1:f:470:HIS:HB3	2.15	0.46
1:4:342:HIS:ND1	1:4:342:HIS:C	2.73	0.46
1:5:245:PHE:CZ	1:5:247:PRO:HG3	2.50	0.46
1:a:74:GLU:OE2	1:e:381:TYR:OH	2.32	0.46
1:a:268:TYR:CD2	1:a:480:PRO:HB3	2.50	0.46
1:b:108:THR:OG1	1:b:110:TRP:HD1	1.97	0.46
1:b:217:TRP:CG	1:b:239:ARG:HD2	2.50	0.46
1:f:314:TRP:CZ2	1:f:327:VAL:HG23	2.50	0.46
1:h:316:ASP:O	1:h:418:SER:HA	2.15	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:l:329:ASN:OD1	1:m:470:HIS:HB3	2.15	0.46
1:l:404:GLN:HE22	1:l:443:ASP:H	1.63	0.46
1:m:316:ASP:O	1:m:418:SER:HA	2.15	0.46
1:o:413:HIS:CE1	1:o:428:TRP:HB2	2.50	0.46
1:p:268:TYR:CD2	1:p:480:PRO:HB3	2.50	0.46
1:q:93:GLN:HB2	1:q:229:ASN:O	2.15	0.46
1:r:39:THR:HB	1:r:147:ASP:HB2	1.97	0.46
1:r:93:GLN:HB2	1:r:229:ASN:O	2.15	0.46
1:r:380:ASP:OD1	1:r:381:TYR:N	2.45	0.46
1:r:413:HIS:CE1	1:r:428:TRP:HB2	2.50	0.46
1:s:108:THR:HG21	1:s:210:TYR:HD2	1.80	0.46
1:s:316:ASP:O	1:s:418:SER:HA	2.16	0.46
1:t:108:THR:HG21	1:t:210:TYR:HD2	1.80	0.46
1:u:217:TRP:CG	1:u:239:ARG:HD2	2.50	0.46
1:v:108:THR:OG1	1:v:110:TRP:HD1	1.97	0.46
1:w:93:GLN:HB2	1:w:229:ASN:O	2.15	0.46
1:w:108:THR:OG1	1:w:110:TRP:HD1	1.97	0.46
1:w:287:THR:HG21	1:w:569:MET:CE	2.43	0.46
1:x:245:PHE:CZ	1:x:247:PRO:HG3	2.50	0.46
1:x:342:HIS:ND1	1:x:342:HIS:C	2.73	0.46
1:x:404:GLN:HE22	1:x:443:ASP:H	1.63	0.46
1:z:329:ASN:OD1	1:7:470:HIS:HB3	2.15	0.46
1:B:314:TRP:CZ2	1:B:327:VAL:HG23	2.50	0.46
1:B:470:HIS:HB3	1:L:329:ASN:OD1	2.15	0.46
1:E:268:TYR:CD2	1:E:480:PRO:HB3	2.50	0.46
1:F:245:PHE:CZ	1:F:247:PRO:HG3	2.50	0.46
1:F:413:HIS:CE1	1:F:428:TRP:HB2	2.50	0.46
1:H:404:GLN:HE22	1:H:443:ASP:H	1.63	0.46
1:I:404:GLN:HE22	1:I:443:ASP:H	1.63	0.46
1:J:376:LYS:HG3	1:J:395:TRP:HB2	1.96	0.46
1:K:74:GLU:OE2	1:7:381:TYR:OH	2.32	0.46
1:K:93:GLN:HB2	1:K:229:ASN:O	2.15	0.46
1:L:217:TRP:CG	1:L:239:ARG:HD2	2.50	0.46
1:M:342:HIS:ND1	1:M:342:HIS:C	2.73	0.46
1:M:470:HIS:HB3	1:2:329:ASN:OD1	2.15	0.46
1:N:108:THR:HG21	1:N:210:TYR:HD2	1.80	0.46
1:N:314:TRP:CZ2	1:N:327:VAL:HG23	2.50	0.46
1:N:380:ASP:OD1	1:N:381:TYR:N	2.45	0.46
1:N:413:HIS:CE1	1:N:428:TRP:HB2	2.50	0.46
1:V:245:PHE:CZ	1:V:247:PRO:HG3	2.50	0.46
1:V:287:THR:HG21	1:V:569:MET:CE	2.43	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:W:287:THR:HG21	1:W:569:MET:CE	2.43	0.46
1:X:39:THR:HB	1:X:147:ASP:HB2	1.97	0.46
1:X:108:THR:HG21	1:X:210:TYR:HD2	1.80	0.46
1:Y:404:GLN:HE22	1:Y:443:ASP:H	1.63	0.46
1:2:468:SER:OG	1:2:471:ALA:O	2.22	0.46
1:3:314:TRP:CZ2	1:3:327:VAL:HG23	2.50	0.46
1:3:470:HIS:HB3	1:j:329:ASN:OD1	2.15	0.46
1:5:93:GLN:HB2	1:5:229:ASN:O	2.15	0.46
1:6:315:GLY:HA3	1:6:417:LEU:O	2.14	0.46
1:a:316:ASP:O	1:a:418:SER:HA	2.15	0.46
1:a:470:HIS:HB3	1:b:329:ASN:OD1	2.15	0.46
1:g:404:GLN:HE22	1:g:443:ASP:H	1.63	0.46
1:g:441:ALA:HB2	1:h:465:PRO:HG3	1.98	0.46
1:h:108:THR:OG1	1:h:110:TRP:HD1	1.97	0.46
1:h:386:ASP:OD1	1:h:387:ASP:OD1	2.34	0.46
1:i:245:PHE:CZ	1:i:247:PRO:HG3	2.50	0.46
1:i:268:TYR:CD2	1:i:480:PRO:HB3	2.50	0.46
1:j:245:PHE:CZ	1:j:247:PRO:HG3	2.50	0.46
1:k:376:LYS:HG3	1:k:395:TRP:HB2	1.96	0.46
1:l:441:ALA:HB2	1:m:465:PRO:HG3	1.98	0.46
1:m:386:ASP:OD1	1:m:387:ASP:OD1	2.34	0.46
1:n:268:TYR:CD2	1:n:480:PRO:HB3	2.50	0.46
1:n:329:ASN:OD1	1:o:470:HIS:HB3	2.15	0.46
1:p:217:TRP:CG	1:p:239:ARG:HD2	2.49	0.46
1:q:39:THR:HB	1:q:147:ASP:HB2	1.97	0.46
1:q:200:ILE:HD11	1:q:203:ARG:CG	2.38	0.46
1:q:470:HIS:HB3	1:s:329:ASN:OD1	2.15	0.46
1:r:108:THR:HG21	1:r:210:TYR:HD2	1.80	0.46
1:r:314:TRP:CZ2	1:r:327:VAL:HG23	2.50	0.46
1:v:314:TRP:CZ2	1:v:327:VAL:HG23	2.50	0.46
1:v:386:ASP:OD1	1:v:387:ASP:OD1	2.34	0.46
1:w:217:TRP:CG	1:w:239:ARG:HD2	2.50	0.46
1:w:268:TYR:CD2	1:w:480:PRO:HB3	2.50	0.46
1:x:93:GLN:HB2	1:x:229:ASN:O	2.15	0.46
1:y:268:TYR:CD2	1:y:480:PRO:HB3	2.50	0.46
1:z:245:PHE:CZ	1:z:247:PRO:HG3	2.50	0.46
1:z:386:ASP:OD1	1:z:387:ASP:OD1	2.34	0.46
1:0:217:TRP:CG	1:0:239:ARG:HD2	2.50	0.46
1:B:74:GLU:OE2	1:C:381:TYR:OH	2.32	0.46
1:C:404:GLN:HE22	1:C:443:ASP:H	1.63	0.46
1:D:268:TYR:CD2	1:D:480:PRO:HB3	2.50	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:331:HIS:CE1	1:Q:342:HIS:HD2	2.32	0.46
1:F:74:GLU:OE2	1:R:381:TYR:OH	2.32	0.46
1:G:386:ASP:OD1	1:G:387:ASP:OD1	2.34	0.46
1:H:93:GLN:HB2	1:H:229:ASN:O	2.15	0.46
1:H:314:TRP:CZ2	1:H:327:VAL:HG23	2.50	0.46
1:I:108:THR:HG21	1:I:210:TYR:HD2	1.80	0.46
1:J:404:GLN:HE22	1:J:443:ASP:H	1.63	0.46
1:K:342:HIS:ND1	1:K:342:HIS:C	2.73	0.46
1:L:316:ASP:O	1:L:418:SER:HA	2.15	0.46
1:N:39:THR:HB	1:N:147:ASP:HB2	1.97	0.46
1:O:93:GLN:HB2	1:O:229:ASN:O	2.15	0.46
1:O:376:LYS:HG3	1:O:395:TRP:HB2	1.96	0.46
1:P:477:ASP:OD1	1:P:478:GLY:N	2.43	0.46
1:Q:268:TYR:CD2	1:Q:480:PRO:HB3	2.50	0.46
1:Q:314:TRP:CZ2	1:Q:327:VAL:HG23	2.50	0.46
1:T:279:TYR:HB3	1:T:562:ARG:HG2	1.96	0.46
1:W:108:THR:OG1	1:W:110:TRP:HD1	1.97	0.46
1:W:268:TYR:CD2	1:W:480:PRO:HB3	2.50	0.46
1:X:316:ASP:O	1:X:418:SER:HA	2.15	0.46
1:Y:93:GLN:HB2	1:Y:229:ASN:O	2.15	0.46
1:Y:316:ASP:O	1:Y:418:SER:HA	2.15	0.46
1:Z:316:ASP:O	1:Z:418:SER:HA	2.15	0.46
1:1:39:THR:HB	1:1:147:ASP:HB2	1.97	0.46
1:4:245:PHE:CZ	1:4:247:PRO:HG3	2.50	0.46
1:6:108:THR:HG21	1:6:210:TYR:HD2	1.80	0.46
1:6:404:GLN:HE22	1:6:443:ASP:H	1.63	0.46
1:a:108:THR:HG21	1:a:210:TYR:HD2	1.80	0.46
1:a:314:TRP:CZ2	1:a:327:VAL:HG23	2.50	0.46
1:c:329:ASN:OD1	1:d:470:HIS:HB3	2.15	0.46
1:d:314:TRP:CZ2	1:d:327:VAL:HG23	2.50	0.46
1:e:39:THR:HB	1:e:147:ASP:HB2	1.97	0.46
1:h:335:SER:N	1:h:406:ASN:HD22	2.14	0.46
1:i:315:GLY:HA3	1:i:417:LEU:O	2.14	0.46
1:m:314:TRP:CZ2	1:m:327:VAL:HG23	2.50	0.46
1:m:335:SER:N	1:m:406:ASN:HD22	2.14	0.46
1:n:413:HIS:CE1	1:n:428:TRP:HB2	2.50	0.46
1:t:217:TRP:CG	1:t:239:ARG:HD2	2.49	0.46
1:t:404:GLN:HE22	1:t:443:ASP:H	1.63	0.46
1:w:335:SER:N	1:w:406:ASN:HD22	2.14	0.46
1:x:200:ILE:HD11	1:x:203:ARG:CG	2.38	0.46
1:x:314:TRP:CZ2	1:x:327:VAL:HG23	2.50	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:x:316:ASP:O	1:x:418:SER:HA	2.15	0.46
1:0:245:PHE:CZ	1:0:247:PRO:HG3	2.50	0.46
1:0:287:THR:HG21	1:0:569:MET:CE	2.43	0.46
1:A:386:ASP:OD1	1:A:387:ASP:OD1	2.34	0.46
1:B:108:THR:HG21	1:B:210:TYR:HD2	1.80	0.46
1:B:217:TRP:CG	1:B:239:ARG:HD2	2.50	0.46
1:C:39:THR:HB	1:C:147:ASP:HB2	1.97	0.46
1:C:245:PHE:CZ	1:C:247:PRO:HG3	2.50	0.46
1:D:470:HIS:HB3	1:P:329:ASN:OD1	2.15	0.46
1:E:217:TRP:CG	1:E:239:ARG:HD2	2.50	0.46
1:F:93:GLN:HB2	1:F:229:ASN:O	2.15	0.46
1:F:268:TYR:CD2	1:F:480:PRO:HB3	2.50	0.46
1:G:314:TRP:CZ2	1:G:327:VAL:HG23	2.50	0.46
1:H:316:ASP:O	1:H:418:SER:HA	2.15	0.46
1:H:342:HIS:HD2	1:Y:331:HIS:CE1	2.30	0.46
1:H:465:PRO:HG3	1:Y:441:ALA:HB2	1.98	0.46
1:I:217:TRP:CG	1:I:239:ARG:HD2	2.49	0.46
1:J:315:GLY:HA3	1:J:417:LEU:O	2.14	0.46
1:K:316:ASP:O	1:K:418:SER:HA	2.15	0.46
1:K:329:ASN:OD1	1:1:470:HIS:HB3	2.15	0.46
1:L:413:HIS:CE1	1:L:428:TRP:HB2	2.50	0.46
1:M:314:TRP:CZ2	1:M:327:VAL:HG23	2.50	0.46
1:N:386:ASP:OD1	1:N:387:ASP:OD1	2.34	0.46
1:Q:108:THR:HG21	1:Q:210:TYR:HD2	1.80	0.46
1:Q:316:ASP:O	1:Q:418:SER:HA	2.15	0.46
1:Q:413:HIS:CE1	1:Q:428:TRP:HB2	2.50	0.46
1:R:268:TYR:CD2	1:R:480:PRO:HB3	2.50	0.46
1:R:342:HIS:HE1	1:U:406:ASN:CG	2.16	0.46
1:V:268:TYR:CD2	1:V:480:PRO:HB3	2.50	0.46
1:W:335:SER:N	1:W:406:ASN:HD22	2.14	0.46
1:X:386:ASP:OD1	1:X:387:ASP:OD1	2.34	0.46
1:X:470:HIS:HB3	1:5:329:ASN:OD1	2.15	0.46
1:Z:331:HIS:CE1	1:x:342:HIS:HD2	2.30	0.46
1:Z:386:ASP:OD1	1:Z:387:ASP:OD1	2.34	0.46
1:Z:441:ALA:HB2	1:x:465:PRO:HG3	1.98	0.46
1:1:316:ASP:O	1:1:418:SER:HA	2.15	0.46
1:1:386:ASP:OD1	1:1:387:ASP:OD1	2.34	0.46
1:3:39:THR:HB	1:3:147:ASP:HB2	1.97	0.46
1:3:477:ASP:OD1	1:3:478:GLY:N	2.43	0.46
1:5:316:ASP:O	1:5:418:SER:HA	2.15	0.46
1:5:342:HIS:ND1	1:5:342:HIS:C	2.73	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:6:335:SER:N	1:6:406:ASN:HD22	2.14	0.46
1:a:217:TRP:CG	1:a:239:ARG:HD2	2.50	0.46
1:b:316:ASP:O	1:b:418:SER:HA	2.15	0.46
1:d:108:THR:HG21	1:d:210:TYR:HD2	1.80	0.46
1:f:335:SER:N	1:f:406:ASN:HD22	2.14	0.46
1:g:268:TYR:CD2	1:g:480:PRO:HB3	2.50	0.46
1:g:386:ASP:OD1	1:g:387:ASP:OD1	2.34	0.46
1:i:279:TYR:HB3	1:i:562:ARG:HG2	1.96	0.46
1:i:316:ASP:O	1:i:418:SER:HA	2.15	0.46
1:k:93:GLN:HB2	1:k:229:ASN:O	2.15	0.46
1:l:268:TYR:CD2	1:l:480:PRO:HB3	2.50	0.46
1:l:386:ASP:OD1	1:l:387:ASP:OD1	2.34	0.46
1:n:108:THR:HG21	1:n:210:TYR:HD2	1.80	0.46
1:n:314:TRP:CZ2	1:n:327:VAL:HG23	2.50	0.46
1:n:316:ASP:O	1:n:418:SER:HA	2.15	0.46
1:o:245:PHE:CZ	1:o:247:PRO:HG3	2.50	0.46
1:q:268:TYR:CD2	1:q:480:PRO:HB3	2.50	0.46
1:r:386:ASP:OD1	1:r:387:ASP:OD1	2.34	0.46
1:s:200:ILE:HD11	1:s:203:ARG:CG	2.38	0.46
1:s:477:ASP:OD1	1:s:478:GLY:N	2.43	0.46
1:u:386:ASP:OD1	1:u:387:ASP:OD1	2.34	0.46
1:z:314:TRP:CZ2	1:z:327:VAL:HG23	2.50	0.46
1:z:413:HIS:CE1	1:z:428:TRP:HB2	2.50	0.46
1:C:93:GLN:HB2	1:C:229:ASN:O	2.15	0.46
1:C:335:SER:N	1:C:406:ASN:HD22	2.14	0.46
1:C:376:LYS:HG3	1:C:395:TRP:HB2	1.96	0.46
1:D:386:ASP:OD1	1:D:387:ASP:OD1	2.34	0.46
1:D:413:HIS:CE1	1:D:428:TRP:HB2	2.50	0.46
1:F:386:ASP:OD1	1:F:387:ASP:OD1	2.34	0.46
1:G:108:THR:HG21	1:G:210:TYR:HD2	1.80	0.46
1:J:335:SER:N	1:J:406:ASN:HD22	2.14	0.46
1:L:335:SER:N	1:L:406:ASN:HD22	2.14	0.46
1:N:329:ASN:OD1	1:P:470:HIS:HB3	2.15	0.46
1:P:245:PHE:CZ	1:P:247:PRO:HG3	2.50	0.46
1:R:413:HIS:CE1	1:R:428:TRP:HB2	2.50	0.46
1:S:441:ALA:HB2	1:U:465:PRO:HG3	1.98	0.46
1:T:316:ASP:O	1:T:418:SER:HA	2.15	0.46
1:U:245:PHE:CZ	1:U:247:PRO:HG3	2.50	0.46
1:U:316:ASP:O	1:U:418:SER:HA	2.15	0.46
1:V:39:THR:HB	1:V:147:ASP:HB2	1.97	0.46
1:V:470:HIS:HB3	1:X:329:ASN:OD1	2.15	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:W:316:ASP:O	1:W:418:SER:HA	2.15	0.46
1:Y:108:THR:OG1	1:Y:110:TRP:HD1	1.97	0.46
1:Y:386:ASP:OD1	1:Y:387:ASP:OD1	2.34	0.46
1:Z:93:GLN:HB2	1:Z:229:ASN:O	2.15	0.46
1:Z:108:THR:OG1	1:Z:110:TRP:HD1	1.97	0.46
1:Z:470:HIS:HB3	1:w:329:ASN:OD1	2.15	0.46
1:1:329:ASN:OD1	1:0:470:HIS:HB3	2.15	0.46
1:2:268:TYR:CD2	1:2:480:PRO:HB3	2.50	0.46
1:3:268:TYR:CD2	1:3:480:PRO:HB3	2.50	0.46
1:3:316:ASP:O	1:3:418:SER:HA	2.15	0.46
1:3:335:SER:N	1:3:406:ASN:HD22	2.14	0.46
1:b:335:SER:N	1:b:406:ASN:HD22	2.14	0.46
1:b:386:ASP:OD1	1:b:387:ASP:OD1	2.34	0.46
1:b:413:HIS:CE1	1:b:428:TRP:HB2	2.50	0.46
1:c:268:TYR:CD2	1:c:480:PRO:HB3	2.50	0.46
1:c:470:HIS:HB3	1:e:329:ASN:OD1	2.15	0.46
1:e:245:PHE:CZ	1:e:247:PRO:HG3	2.50	0.46
1:f:39:THR:HB	1:f:147:ASP:HB2	1.97	0.46
1:h:314:TRP:CZ2	1:h:327:VAL:HG23	2.50	0.46
1:m:245:PHE:CZ	1:m:247:PRO:HG3	2.50	0.46
1:n:279:TYR:OH	1:o:242:ASP:OD2	2.29	0.46
1:n:335:SER:N	1:n:406:ASN:HD22	2.14	0.46
1:n:342:HIS:ND1	1:n:342:HIS:C	2.73	0.46
1:n:386:ASP:OD1	1:n:387:ASP:OD1	2.34	0.46
1:o:93:GLN:HB2	1:o:229:ASN:O	2.15	0.46
1:o:335:SER:N	1:o:406:ASN:HD22	2.14	0.46
1:o:386:ASP:OD1	1:o:387:ASP:OD1	2.34	0.46
1:q:386:ASP:OD1	1:q:387:ASP:OD1	2.34	0.46
1:q:413:HIS:CE1	1:q:428:TRP:HB2	2.50	0.46
1:q:465:PRO:HG3	1:s:441:ALA:HB2	1.98	0.46
1:r:329:ASN:OD1	1:s:470:HIS:HB3	2.15	0.46
1:s:93:GLN:HB2	1:s:229:ASN:O	2.15	0.46
1:v:342:HIS:ND1	1:v:342:HIS:C	2.73	0.46
1:x:413:HIS:CE1	1:x:428:TRP:HB2	2.50	0.46
1:y:342:HIS:HE1	1:7:406:ASN:CG	2.16	0.46
1:7:316:ASP:O	1:7:418:SER:HA	2.15	0.46
1:7:413:HIS:CE1	1:7:428:TRP:HB2	2.50	0.46
1:0:39:THR:HB	1:0:147:ASP:HB2	1.97	0.46
1:0:268:TYR:CD2	1:0:480:PRO:HB3	2.50	0.46
1:A:245:PHE:CZ	1:A:247:PRO:HG3	2.50	0.46
1:A:316:ASP:O	1:A:418:SER:HA	2.15	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:245:PHE:CZ	1:D:247:PRO:HG3	2.50	0.46
1:D:465:PRO:HG3	1:P:441:ALA:HB2	1.98	0.46
1:E:404:GLN:HE22	1:E:443:ASP:H	1.63	0.46
1:F:335:SER:N	1:F:406:ASN:HD22	2.14	0.46
1:G:342:HIS:ND1	1:G:342:HIS:C	2.73	0.46
1:H:413:HIS:CE1	1:H:428:TRP:HB2	2.50	0.46
1:J:108:THR:HG21	1:J:210:TYR:HD2	1.80	0.46
1:J:314:TRP:CZ2	1:J:327:VAL:HG23	2.50	0.46
1:L:386:ASP:OD1	1:L:387:ASP:OD1	2.34	0.46
1:M:93:GLN:HB2	1:M:229:ASN:O	2.15	0.46
1:M:108:THR:HG21	1:M:210:TYR:HD2	1.80	0.46
1:O:108:THR:HG21	1:O:210:TYR:HD2	1.80	0.46
1:O:335:SER:N	1:O:406:ASN:HD22	2.14	0.46
1:P:93:GLN:HB2	1:P:229:ASN:O	2.15	0.46
1:Q:93:GLN:HB2	1:Q:229:ASN:O	2.15	0.46
1:Q:335:SER:N	1:Q:406:ASN:HD22	2.14	0.46
1:Q:342:HIS:ND1	1:Q:342:HIS:C	2.73	0.46
1:Q:386:ASP:OD1	1:Q:387:ASP:OD1	2.34	0.46
1:R:404:GLN:HE22	1:R:443:ASP:H	1.63	0.46
1:S:314:TRP:CZ2	1:S:327:VAL:HG23	2.50	0.46
1:S:413:HIS:CE1	1:S:428:TRP:HB2	2.50	0.46
1:T:217:TRP:CG	1:T:239:ARG:HD2	2.50	0.46
1:T:386:ASP:OD1	1:T:387:ASP:OD1	2.34	0.46
1:U:413:HIS:CE1	1:U:428:TRP:HB2	2.50	0.46
1:W:329:ASN:OD1	1:Y:470:HIS:HB3	2.15	0.46
1:W:404:GLN:HE22	1:W:443:ASP:H	1.63	0.46
1:X:404:GLN:HE22	1:X:443:ASP:H	1.63	0.46
1:Y:245:PHE:CZ	1:Y:247:PRO:HG3	2.50	0.46
1:Z:465:PRO:HG3	1:w:441:ALA:HB2	1.98	0.46
1:6:468:SER:OG	1:6:471:ALA:O	2.22	0.46
1:a:413:HIS:CE1	1:a:428:TRP:HB2	2.50	0.46
1:c:93:GLN:HB2	1:c:229:ASN:O	2.15	0.46
1:d:268:TYR:CD2	1:d:480:PRO:HB3	2.50	0.46
1:e:93:GLN:HB2	1:e:229:ASN:O	2.15	0.46
1:e:268:TYR:CD2	1:e:480:PRO:HB3	2.50	0.46
1:e:335:SER:N	1:e:406:ASN:HD22	2.14	0.46
1:f:316:ASP:O	1:f:418:SER:HA	2.15	0.46
1:g:108:THR:HG21	1:g:210:TYR:HD2	1.80	0.46
1:h:245:PHE:CZ	1:h:247:PRO:HG3	2.50	0.46
1:i:108:THR:HG21	1:i:210:TYR:HD2	1.80	0.46
1:i:217:TRP:CG	1:i:239:ARG:HD2	2.50	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:i:386:ASP:OD1	1:i:387:ASP:OD1	2.34	0.46
1:k:108:THR:HG21	1:k:210:TYR:HD2	1.80	0.46
1:n:315:GLY:HA3	1:n:417:LEU:O	2.14	0.46
1:o:268:TYR:CD2	1:o:480:PRO:HB3	2.50	0.46
1:p:314:TRP:CZ2	1:p:327:VAL:HG23	2.50	0.46
1:p:404:GLN:HE22	1:p:443:ASP:H	1.63	0.46
1:q:245:PHE:CZ	1:q:247:PRO:HG3	2.50	0.46
1:s:245:PHE:CZ	1:s:247:PRO:HG3	2.50	0.46
1:t:329:ASN:OD1	1:u:470:HIS:HB3	2.15	0.46
1:u:316:ASP:O	1:u:418:SER:HA	2.15	0.46
1:w:316:ASP:O	1:w:418:SER:HA	2.15	0.46
1:w:380:ASP:OD1	1:w:381:TYR:N	2.45	0.46
1:7:245:PHE:CZ	1:7:247:PRO:HG3	2.50	0.46
1:A:335:SER:N	1:A:406:ASN:HD22	2.14	0.46
1:B:329:ASN:OD1	1:J:470:HIS:HB3	2.15	0.46
1:B:413:HIS:CE1	1:B:428:TRP:HB2	2.50	0.46
1:C:268:TYR:CD2	1:C:480:PRO:HB3	2.50	0.46
1:C:329:ASN:OD1	1:2:470:HIS:HB3	2.15	0.46
1:C:413:HIS:CE1	1:C:428:TRP:HB2	2.50	0.46
1:E:314:TRP:CZ2	1:E:327:VAL:HG23	2.50	0.46
1:F:461:THR:HB	1:Q:442:VAL:O	2.16	0.46
1:F:465:PRO:HG3	1:Q:441:ALA:HB2	1.98	0.46
1:G:413:HIS:CE1	1:G:428:TRP:HB2	2.50	0.46
1:H:268:TYR:CD2	1:H:480:PRO:HB3	2.50	0.46
1:K:268:TYR:CD2	1:K:480:PRO:HB3	2.50	0.46
1:L:108:THR:HG21	1:L:210:TYR:HD2	1.80	0.46
1:L:380:ASP:OD1	1:L:381:TYR:N	2.45	0.46
1:M:39:THR:HB	1:M:147:ASP:HB2	1.97	0.46
1:M:268:TYR:CD2	1:M:480:PRO:HB3	2.50	0.46
1:O:288:GLY:O	1:g:188:VAL:HG23	2.16	0.46
1:O:329:ASN:OD1	1:g:470:HIS:HB3	2.15	0.46
1:T:335:SER:N	1:T:406:ASN:HD22	2.14	0.46
1:U:381:TYR:OH	1:5:74:GLU:OE2	2.32	0.46
1:W:380:ASP:OD1	1:W:381:TYR:N	2.45	0.46
1:W:441:ALA:HB2	1:Y:465:PRO:HG3	1.98	0.46
1:Z:245:PHE:CZ	1:Z:247:PRO:HG3	2.50	0.46
1:2:93:GLN:HB2	1:2:229:ASN:O	2.15	0.46
1:4:268:TYR:CD2	1:4:480:PRO:HB3	2.50	0.46
1:6:314:TRP:CZ2	1:6:327:VAL:HG23	2.50	0.46
1:6:413:HIS:CE1	1:6:428:TRP:HB2	2.50	0.46
1:6:477:ASP:OD1	1:6:478:GLY:N	2.43	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:a:93:GLN:HB2	1:a:229:ASN:O	2.15	0.46
1:d:39:THR:HB	1:d:147:ASP:HB2	1.97	0.46
1:d:387:ASP:HA	1:d:388:PRO:HD3	1.84	0.46
1:e:413:HIS:CE1	1:e:428:TRP:HB2	2.50	0.46
1:f:268:TYR:CD2	1:f:480:PRO:HB3	2.50	0.46
1:g:331:HIS:CE1	1:h:342:HIS:HD2	2.30	0.46
1:i:314:TRP:CZ2	1:i:327:VAL:HG23	2.50	0.46
1:i:335:SER:N	1:i:406:ASN:HD22	2.14	0.46
1:k:39:THR:HB	1:k:147:ASP:HB2	1.97	0.46
1:k:288:GLY:O	1:l:188:VAL:HG23	2.16	0.46
1:k:335:SER:N	1:k:406:ASN:HD22	2.14	0.46
1:l:108:THR:HG21	1:l:210:TYR:HD2	1.80	0.46
1:m:413:HIS:CE1	1:m:428:TRP:HB2	2.50	0.46
1:o:329:ASN:OD1	1:p:470:HIS:HB3	2.15	0.46
1:u:245:PHE:CZ	1:u:247:PRO:HG3	2.50	0.46
1:v:108:THR:HG21	1:v:210:TYR:HD2	1.80	0.46
1:x:268:TYR:CD2	1:x:480:PRO:HB3	2.50	0.46
1:y:413:HIS:CE1	1:y:428:TRP:HB2	2.50	0.46
1:z:441:ALA:HB2	1:7:465:PRO:HG3	1.98	0.46
1:0:314:TRP:CZ2	1:0:327:VAL:HG23	2.50	0.46
1:A:342:HIS:HE1	1:I:406:ASN:CG	2.18	0.46
1:B:93:GLN:HB2	1:B:229:ASN:O	2.15	0.46
1:B:108:THR:OG1	1:B:110:TRP:HD1	1.97	0.46
1:B:386:ASP:OD1	1:B:387:ASP:OD1	2.34	0.46
1:B:406:ASN:CG	1:J:342:HIS:HE1	2.16	0.46
1:C:75:TYR:OH	1:C:249:GLU:OE1	2.27	0.46
1:D:108:THR:HG21	1:D:210:TYR:HD2	1.80	0.46
1:D:387:ASP:HA	1:D:388:PRO:HD3	1.84	0.46
1:D:528:GLN:NE2	1:D:530:ASN:O	2.49	0.46
1:G:93:GLN:HB2	1:G:229:ASN:O	2.15	0.46
1:J:316:ASP:O	1:J:418:SER:HA	2.16	0.46
1:J:413:HIS:CE1	1:J:428:TRP:HB2	2.50	0.46
1:L:396:GLN:OE1	1:L:448:GLN:NE2	2.49	0.46
1:M:528:GLN:NE2	1:M:530:ASN:O	2.49	0.46
1:Q:315:GLY:HA3	1:Q:417:LEU:O	2.14	0.46
1:T:108:THR:HG21	1:T:210:TYR:HD2	1.80	0.46
1:T:314:TRP:CZ2	1:T:327:VAL:HG23	2.50	0.46
1:U:268:TYR:CD2	1:U:480:PRO:HB3	2.50	0.46
1:V:314:TRP:CZ2	1:V:327:VAL:HG23	2.50	0.46
1:1:404:GLN:HE22	1:1:443:ASP:H	1.63	0.46
1:5:335:SER:N	1:5:406:ASN:HD22	2.14	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:6:470:HIS:HB3	1:a:329:ASN:OD1	2.15	0.46
1:b:380:ASP:OD1	1:b:381:TYR:N	2.45	0.46
1:d:93:GLN:HB2	1:d:229:ASN:O	2.15	0.46
1:f:82:ARG:NH1	1:f:236:LYS:HD3	2.31	0.46
1:f:477:ASP:OD1	1:f:478:GLY:N	2.43	0.46
1:h:413:HIS:CE1	1:h:428:TRP:HB2	2.50	0.46
1:j:268:TYR:CD2	1:j:480:PRO:HB3	2.50	0.46
1:l:331:HIS:CE1	1:m:342:HIS:HD2	2.30	0.46
1:n:93:GLN:HB2	1:n:229:ASN:O	2.15	0.46
1:o:39:THR:HB	1:o:147:ASP:HB2	1.97	0.46
1:o:441:ALA:HB2	1:p:465:PRO:HG3	1.98	0.46
1:p:396:GLN:OE1	1:p:448:GLN:NE2	2.49	0.46
1:q:342:HIS:ND1	1:q:342:HIS:C	2.73	0.46
1:t:288:GLY:O	1:u:188:VAL:HG23	2.16	0.46
1:u:268:TYR:CD2	1:u:480:PRO:HB3	2.50	0.46
1:u:335:SER:N	1:u:406:ASN:HD22	2.14	0.46
1:v:93:GLN:HB2	1:v:229:ASN:O	2.15	0.46
1:v:413:HIS:CE1	1:v:428:TRP:HB2	2.50	0.46
1:w:404:GLN:HE22	1:w:443:ASP:H	1.63	0.46
1:7:268:TYR:CD2	1:7:480:PRO:HB3	2.50	0.46
1:E:200:ILE:HD11	1:E:203:ARG:CG	2.38	0.46
1:E:316:ASP:O	1:E:418:SER:HA	2.15	0.46
1:E:396:GLN:OE1	1:E:448:GLN:NE2	2.49	0.46
1:H:288:GLY:O	1:W:188:VAL:HG23	2.16	0.46
1:I:381:TYR:OH	1:J:74:GLU:OE2	2.32	0.46
1:I:396:GLN:OE1	1:I:448:GLN:NE2	2.49	0.46
1:K:335:SER:N	1:K:406:ASN:HD22	2.14	0.46
1:K:404:GLN:HE22	1:K:443:ASP:H	1.63	0.46
1:M:387:ASP:HA	1:M:388:PRO:HD3	1.84	0.46
1:O:39:THR:HB	1:O:147:ASP:HB2	1.97	0.46
1:Q:396:GLN:OE1	1:Q:448:GLN:NE2	2.49	0.46
1:R:82:ARG:NH1	1:R:236:LYS:HD3	2.31	0.46
1:R:396:GLN:OE1	1:R:448:GLN:NE2	2.49	0.46
1:S:82:ARG:NH1	1:S:236:LYS:HD3	2.31	0.46
1:S:316:ASP:O	1:S:418:SER:HA	2.15	0.46
1:S:381:TYR:OH	1:4:74:GLU:OE2	2.32	0.46
1:T:93:GLN:HB2	1:T:229:ASN:O	2.15	0.46
1:T:288:GLY:O	1:4:188:VAL:HG23	2.16	0.46
1:T:329:ASN:OD1	1:4:470:HIS:HB3	2.15	0.46
1:V:288:GLY:O	1:5:188:VAL:HG23	2.16	0.46
1:W:413:HIS:CE1	1:W:428:TRP:HB2	2.50	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Y:381:TYR:OH	1:x:74:GLU:OE2	2.33	0.46
1:Z:242:ASP:OD2	1:w:279:TYR:OH	2.30	0.46
1:2:39:THR:HB	1:2:147:ASP:HB2	1.97	0.46
1:3:108:THR:HG21	1:3:210:TYR:HD2	1.80	0.46
1:3:329:ASN:OD1	1:i:470:HIS:HB3	2.15	0.46
1:4:396:GLN:OE1	1:4:448:GLN:NE2	2.49	0.46
1:5:39:THR:HB	1:5:147:ASP:HB2	1.97	0.46
1:5:396:GLN:OE1	1:5:448:GLN:NE2	2.49	0.46
1:5:404:GLN:HE22	1:5:443:ASP:H	1.63	0.46
1:6:316:ASP:O	1:6:418:SER:HA	2.16	0.46
1:a:108:THR:OG1	1:a:110:TRP:HD1	1.97	0.46
1:b:108:THR:HG21	1:b:210:TYR:HD2	1.80	0.46
1:b:396:GLN:OE1	1:b:448:GLN:NE2	2.49	0.46
1:d:528:GLN:NE2	1:d:530:ASN:O	2.49	0.46
1:e:376:LYS:HG3	1:e:395:TRP:HB2	1.96	0.46
1:i:288:GLY:O	1:j:188:VAL:HG23	2.16	0.46
1:i:329:ASN:OD1	1:j:470:HIS:HB3	2.15	0.46
1:j:93:GLN:HB2	1:j:229:ASN:O	2.15	0.46
1:j:396:GLN:OE1	1:j:448:GLN:NE2	2.49	0.46
1:k:329:ASN:OD1	1:l:470:HIS:HB3	2.15	0.46
1:n:396:GLN:OE1	1:n:448:GLN:NE2	2.49	0.46
1:n:465:PRO:HG3	1:p:441:ALA:HB2	1.98	0.46
1:q:335:SER:N	1:q:406:ASN:HD22	2.14	0.46
1:q:528:GLN:NE2	1:q:530:ASN:O	2.49	0.46
1:t:75:TYR:OH	1:t:249:GLU:OE1	2.27	0.46
1:t:386:ASP:OD1	1:t:387:ASP:OD1	2.34	0.46
1:t:396:GLN:OE1	1:t:448:GLN:NE2	2.49	0.46
1:v:316:ASP:O	1:v:418:SER:HA	2.15	0.46
1:w:188:VAL:HG23	1:x:288:GLY:O	2.16	0.46
1:y:39:THR:HB	1:y:147:ASP:HB2	1.97	0.46
1:y:82:ARG:NH1	1:y:236:LYS:HD3	2.31	0.46
1:y:396:GLN:OE1	1:y:448:GLN:NE2	2.49	0.46
1:A:268:TYR:CD2	1:A:480:PRO:HB3	2.50	0.46
1:A:404:GLN:HE22	1:A:443:ASP:H	1.63	0.46
1:D:335:SER:N	1:D:406:ASN:HD22	2.14	0.46
1:D:342:HIS:ND1	1:D:342:HIS:C	2.73	0.46
1:D:396:GLN:OE1	1:D:448:GLN:NE2	2.49	0.46
1:E:239:ARG:HB3	1:E:239:ARG:HH21	1.81	0.46
1:E:470:HIS:HB3	1:F:329:ASN:OD1	2.16	0.46
1:F:39:THR:HB	1:F:147:ASP:HB2	1.97	0.46
1:G:82:ARG:NH1	1:G:236:LYS:HD3	2.31	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:316:ASP:O	1:G:418:SER:HA	2.15	0.46
1:H:74:GLU:OE2	1:Z:381:TYR:OH	2.33	0.46
1:I:39:THR:HB	1:I:147:ASP:HB2	1.97	0.46
1:I:82:ARG:NH1	1:I:236:LYS:HD3	2.31	0.46
1:I:386:ASP:OD1	1:I:387:ASP:OD1	2.34	0.46
1:J:468:SER:OG	1:J:471:ALA:O	2.22	0.46
1:J:477:ASP:OD1	1:J:478:GLY:N	2.43	0.46
1:K:39:THR:HB	1:K:147:ASP:HB2	1.97	0.46
1:K:188:VAL:HG23	1:0:288:GLY:O	2.16	0.46
1:K:396:GLN:OE1	1:K:448:GLN:NE2	2.49	0.46
1:K:470:HIS:HB3	1:0:329:ASN:OD1	2.15	0.46
1:L:82:ARG:NH1	1:L:236:LYS:HD3	2.31	0.46
1:M:396:GLN:OE1	1:M:448:GLN:NE2	2.49	0.46
1:O:188:VAL:HG23	1:h:288:GLY:O	2.16	0.46
1:P:335:SER:N	1:P:406:ASN:HD22	2.14	0.46
1:R:465:PRO:HG3	1:U:441:ALA:HB2	1.98	0.46
1:S:93:GLN:HB2	1:S:229:ASN:O	2.15	0.46
1:T:477:ASP:OD1	1:T:478:GLY:N	2.43	0.46
1:U:39:THR:HB	1:U:147:ASP:HB2	1.97	0.46
1:V:188:VAL:HG23	1:X:288:GLY:O	2.16	0.46
1:V:396:GLN:OE1	1:V:448:GLN:NE2	2.49	0.46
1:X:268:TYR:CD2	1:X:480:PRO:HB3	2.50	0.46
1:1:268:TYR:CD2	1:1:480:PRO:HB3	2.50	0.46
1:1:335:SER:N	1:1:406:ASN:HD22	2.14	0.46
1:2:477:ASP:OD1	1:2:478:GLY:N	2.43	0.46
1:3:82:ARG:NH1	1:3:236:LYS:HD3	2.31	0.46
1:4:93:GLN:HB2	1:4:229:ASN:O	2.15	0.46
1:5:268:TYR:CD2	1:5:480:PRO:HB3	2.50	0.46
1:6:74:GLU:OE2	1:t:381:TYR:OH	2.32	0.46
1:6:200:ILE:HD11	1:6:203:ARG:CG	2.38	0.46
1:b:82:ARG:NH1	1:b:236:LYS:HD3	2.31	0.46
1:c:39:THR:HB	1:c:147:ASP:HB2	1.97	0.46
1:c:477:ASP:OD1	1:c:478:GLY:N	2.43	0.46
1:f:108:THR:HG21	1:f:210:TYR:HD2	1.80	0.46
1:g:245:PHE:CZ	1:g:247:PRO:HG3	2.50	0.46
1:g:335:SER:N	1:g:406:ASN:HD22	2.14	0.46
1:g:387:ASP:HA	1:g:388:PRO:HD3	1.84	0.46
1:i:93:GLN:HB2	1:i:229:ASN:O	2.15	0.46
1:i:396:GLN:OE1	1:i:448:GLN:NE2	2.49	0.46
1:j:82:ARG:NH1	1:j:236:LYS:HD3	2.31	0.46
1:j:316:ASP:O	1:j:418:SER:HA	2.15	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:l:245:PHE:CZ	1:l:247:PRO:HG3	2.50	0.46
1:l:335:SER:N	1:l:406:ASN:HD22	2.14	0.46
1:m:108:THR:HG21	1:m:210:TYR:HD2	1.80	0.46
1:n:342:HIS:HE1	1:p:406:ASN:CG	2.16	0.46
1:o:288:GLY:O	1:p:188:VAL:HG23	2.16	0.46
1:p:239:ARG:HB3	1:p:239:ARG:HH21	1.81	0.46
1:p:316:ASP:O	1:p:418:SER:HA	2.15	0.46
1:q:108:THR:HG21	1:q:210:TYR:HD2	1.80	0.46
1:r:396:GLN:OE1	1:r:448:GLN:NE2	2.49	0.46
1:s:335:SER:N	1:s:406:ASN:HD22	2.14	0.46
1:t:39:THR:HB	1:t:147:ASP:HB2	1.97	0.46
1:t:465:PRO:HG3	1:v:441:ALA:HB2	1.98	0.46
1:u:93:GLN:HB2	1:u:229:ASN:O	2.15	0.46
1:v:82:ARG:NH1	1:v:236:LYS:HD3	2.31	0.46
1:v:396:GLN:OE1	1:v:448:GLN:NE2	2.49	0.46
1:x:335:SER:N	1:x:406:ASN:HD22	2.14	0.46
1:y:288:GLY:O	1:z:188:VAL:HG23	2.16	0.46
1:z:82:ARG:NH1	1:z:236:LYS:HD3	2.31	0.46
1:z:316:ASP:O	1:z:418:SER:HA	2.15	0.46
1:7:335:SER:N	1:7:406:ASN:HD22	2.14	0.46
1:0:396:GLN:OE1	1:0:448:GLN:NE2	2.49	0.46
1:A:342:HIS:ND1	1:A:342:HIS:C	2.73	0.45
1:C:288:GLY:O	1:2:188:VAL:HG23	2.16	0.45
1:D:82:ARG:NH1	1:D:236:LYS:HD3	2.31	0.45
1:E:281:TRP:HE1	1:Q:244:GLN:NE2	2.14	0.45
1:E:342:HIS:ND1	1:E:342:HIS:C	2.73	0.45
1:E:465:PRO:HG3	1:F:441:ALA:HB2	1.98	0.45
1:F:396:GLN:OE1	1:F:448:GLN:NE2	2.49	0.45
1:G:75:TYR:OH	1:G:249:GLU:OE1	2.28	0.45
1:G:441:ALA:HB2	1:I:465:PRO:HG3	1.98	0.45
1:H:335:SER:N	1:H:406:ASN:HD22	2.14	0.45
1:I:335:SER:N	1:I:406:ASN:HD22	2.14	0.45
1:K:386:ASP:OD1	1:K:387:ASP:OD1	2.34	0.45
1:K:441:ALA:HB2	1:1:465:PRO:HG3	1.98	0.45
1:N:200:ILE:HD11	1:N:203:ARG:CG	2.38	0.45
1:N:396:GLN:OE1	1:N:448:GLN:NE2	2.49	0.45
1:O:316:ASP:O	1:O:418:SER:HA	2.15	0.45
1:P:37:HIS:CE1	1:Q:34:GLY:HA2	2.52	0.45
1:P:386:ASP:OD1	1:P:387:ASP:OD1	2.34	0.45
1:P:396:GLN:OE1	1:P:448:GLN:NE2	2.49	0.45
1:R:239:ARG:HB3	1:R:239:ARG:HH21	1.81	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:R:288:GLY:O	1:S:188:VAL:HG23	2.16	0.45
1:R:329:ASN:OD1	1:S:470:HIS:HB3	2.15	0.45
1:R:441:ALA:HB2	1:S:465:PRO:HG3	1.98	0.45
1:T:396:GLN:OE1	1:T:448:GLN:NE2	2.49	0.45
1:T:470:HIS:HB3	1:f:329:ASN:OD1	2.15	0.45
1:U:82:ARG:NH1	1:U:236:LYS:HD3	2.31	0.45
1:U:335:SER:N	1:U:406:ASN:HD22	2.14	0.45
1:V:200:ILE:HD11	1:V:203:ARG:CG	2.38	0.45
1:V:329:ASN:OD1	1:5:470:HIS:HB3	2.15	0.45
1:W:279:TYR:OH	1:Y:242:ASP:OD2	2.30	0.45
1:X:335:SER:N	1:X:406:ASN:HD22	2.14	0.45
1:X:465:PRO:HG3	1:5:441:ALA:HB2	1.98	0.45
1:1:288:GLY:O	1:0:188:VAL:HG23	2.16	0.45
1:2:239:ARG:HB3	1:2:239:ARG:HH21	1.82	0.45
1:2:396:GLN:OE1	1:2:448:GLN:NE2	2.49	0.45
1:4:82:ARG:NH1	1:4:236:LYS:HD3	2.31	0.45
1:4:316:ASP:O	1:4:418:SER:HA	2.15	0.45
1:5:386:ASP:OD1	1:5:387:ASP:OD1	2.34	0.45
1:6:342:HIS:HE1	1:a:406:ASN:CG	2.16	0.45
1:a:335:SER:N	1:a:406:ASN:HD22	2.14	0.45
1:a:386:ASP:OD1	1:a:387:ASP:OD1	2.34	0.45
1:c:188:VAL:HG23	1:e:288:GLY:O	2.16	0.45
1:d:316:ASP:O	1:d:418:SER:HA	2.16	0.45
1:d:396:GLN:OE1	1:d:448:GLN:NE2	2.49	0.45
1:f:342:HIS:ND1	1:f:342:HIS:C	2.73	0.45
1:g:528:GLN:NE2	1:g:530:ASN:O	2.49	0.45
1:k:188:VAL:HG23	1:m:288:GLY:O	2.16	0.45
1:l:288:GLY:O	1:m:188:VAL:HG23	2.16	0.45
1:l:528:GLN:NE2	1:l:530:ASN:O	2.49	0.45
1:n:188:VAL:HG23	1:p:288:GLY:O	2.16	0.45
1:n:357:SER:HB2	1:n:398:ASN:O	2.17	0.45
1:n:441:ALA:HB2	1:o:465:PRO:HG3	1.98	0.45
1:o:108:THR:HG21	1:o:210:TYR:HD2	1.80	0.45
1:o:396:GLN:OE1	1:o:448:GLN:NE2	2.49	0.45
1:q:82:ARG:NH1	1:q:236:LYS:HD3	2.31	0.45
1:q:396:GLN:OE1	1:q:448:GLN:NE2	2.49	0.45
1:s:396:GLN:OE1	1:s:448:GLN:NE2	2.49	0.45
1:t:82:ARG:NH1	1:t:236:LYS:HD3	2.31	0.45
1:t:316:ASP:O	1:t:418:SER:HA	2.15	0.45
1:t:441:ALA:HB2	1:u:465:PRO:HG3	1.98	0.45
1:u:75:TYR:OH	1:u:249:GLU:OE1	2.27	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:u:288:GLY:O	1:v:188:VAL:HG23	2.16	0.45
1:w:413:HIS:CE1	1:w:428:TRP:HB2	2.50	0.45
1:y:404:GLN:HE22	1:y:443:ASP:H	1.63	0.45
1:y:465:PRO:HG3	1:7:441:ALA:HB2	1.98	0.45
1:z:93:GLN:HB2	1:z:229:ASN:O	2.15	0.45
1:7:82:ARG:NH1	1:7:236:LYS:HD3	2.31	0.45
1:A:329:ASN:OD1	1:G:470:HIS:HB3	2.15	0.45
1:A:396:GLN:OE1	1:A:448:GLN:NE2	2.49	0.45
1:B:188:VAL:HG23	1:L:288:GLY:O	2.16	0.45
1:C:239:ARG:HB3	1:C:239:ARG:HH21	1.81	0.45
1:F:82:ARG:NH1	1:F:236:LYS:HD3	2.31	0.45
1:G:396:GLN:OE1	1:G:448:GLN:NE2	2.49	0.45
1:J:93:GLN:HB2	1:J:229:ASN:O	2.15	0.45
1:J:342:HIS:ND1	1:J:342:HIS:C	2.73	0.45
1:K:108:THR:HG21	1:K:210:TYR:HD2	1.80	0.45
1:K:357:SER:HB2	1:K:398:ASN:O	2.17	0.45
1:M:82:ARG:NH1	1:M:236:LYS:HD3	2.31	0.45
1:M:239:ARG:HB3	1:M:239:ARG:HH21	1.81	0.45
1:M:316:ASP:O	1:M:418:SER:HA	2.15	0.45
1:M:335:SER:N	1:M:406:ASN:HD22	2.14	0.45
1:O:477:ASP:OD1	1:O:478:GLY:N	2.43	0.45
1:Q:82:ARG:NH1	1:Q:236:LYS:HD3	2.31	0.45
1:Q:245:PHE:CZ	1:Q:247:PRO:HG3	2.50	0.45
1:Q:357:SER:HB2	1:Q:398:ASN:O	2.17	0.45
1:R:39:THR:HB	1:R:147:ASP:HB2	1.97	0.45
1:R:386:ASP:OD1	1:R:387:ASP:OD1	2.34	0.45
1:S:404:GLN:HE22	1:S:443:ASP:H	1.63	0.45
1:X:245:PHE:CZ	1:X:247:PRO:HG3	2.50	0.45
1:Y:357:SER:HB2	1:Y:398:ASN:O	2.17	0.45
1:Z:335:SER:N	1:Z:406:ASN:HD22	2.14	0.45
1:Z:357:SER:HB2	1:Z:398:ASN:O	2.17	0.45
1:5:357:SER:HB2	1:5:398:ASN:O	2.17	0.45
1:c:239:ARG:HB3	1:c:239:ARG:HH21	1.82	0.45
1:c:316:ASP:O	1:c:418:SER:HA	2.15	0.45
1:c:396:GLN:OE1	1:c:448:GLN:NE2	2.49	0.45
1:c:441:ALA:HB2	1:d:465:PRO:HG3	1.98	0.45
1:d:82:ARG:NH1	1:d:236:LYS:HD3	2.31	0.45
1:d:288:GLY:O	1:e:188:VAL:HG23	2.16	0.45
1:d:335:SER:N	1:d:406:ASN:HD22	2.14	0.45
1:e:75:TYR:OH	1:e:249:GLU:OE1	2.27	0.45
1:e:108:THR:HG21	1:e:210:TYR:HD2	1.80	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:g:82:ARG:NH1	1:g:236:LYS:HD3	2.31	0.45
1:g:288:GLY:O	1:h:188:VAL:HG23	2.16	0.45
1:h:108:THR:HG21	1:h:210:TYR:HD2	1.80	0.45
1:i:82:ARG:NH1	1:i:236:LYS:HD3	2.31	0.45
1:k:477:ASP:OD1	1:k:478:GLY:N	2.43	0.45
1:l:93:GLN:HB2	1:l:229:ASN:O	2.15	0.45
1:n:82:ARG:NH1	1:n:236:LYS:HD3	2.31	0.45
1:n:245:PHE:CZ	1:n:247:PRO:HG3	2.50	0.45
1:n:477:ASP:OD1	1:n:478:GLY:N	2.43	0.45
1:p:335:SER:N	1:p:406:ASN:HD22	2.14	0.45
1:q:75:TYR:OH	1:q:249:GLU:OE1	2.27	0.45
1:s:82:ARG:NH1	1:s:236:LYS:HD3	2.31	0.45
1:s:386:ASP:OD1	1:s:387:ASP:OD1	2.34	0.45
1:t:239:ARG:HB3	1:t:239:ARG:HH21	1.81	0.45
1:t:335:SER:N	1:t:406:ASN:HD22	2.14	0.45
1:u:396:GLN:OE1	1:u:448:GLN:NE2	2.49	0.45
1:u:404:GLN:HE22	1:u:443:ASP:H	1.63	0.45
1:w:386:ASP:OD1	1:w:387:ASP:OD1	2.34	0.45
1:y:386:ASP:OD1	1:y:387:ASP:OD1	2.34	0.45
1:y:441:ALA:HB2	1:z:465:PRO:HG3	1.98	0.45
1:0:316:ASP:O	1:0:418:SER:HA	2.15	0.45
1:A:93:GLN:HB2	1:A:229:ASN:O	2.15	0.45
1:B:82:ARG:NH1	1:B:236:LYS:HD3	2.31	0.45
1:B:335:SER:N	1:B:406:ASN:HD22	2.14	0.45
1:B:342:HIS:ND1	1:B:342:HIS:C	2.73	0.45
1:C:108:THR:HG21	1:C:210:TYR:HD2	1.80	0.45
1:C:188:VAL:HG23	1:M:288:GLY:O	2.16	0.45
1:C:342:HIS:ND1	1:C:342:HIS:C	2.73	0.45
1:C:465:PRO:HG3	1:M:441:ALA:HB2	1.98	0.45
1:E:82:ARG:NH1	1:E:236:LYS:HD3	2.31	0.45
1:F:108:THR:HG21	1:F:210:TYR:HD2	1.80	0.45
1:H:82:ARG:NH1	1:H:236:LYS:HD3	2.31	0.45
1:H:329:ASN:OD1	1:W:470:HIS:HB3	2.15	0.45
1:I:75:TYR:OH	1:I:249:GLU:OE1	2.27	0.45
1:I:239:ARG:HB3	1:I:239:ARG:HH21	1.81	0.45
1:I:316:ASP:O	1:I:418:SER:HA	2.15	0.45
1:M:465:PRO:HG3	1:2:441:ALA:HB2	1.98	0.45
1:P:82:ARG:NH1	1:P:236:LYS:HD3	2.31	0.45
1:R:316:ASP:O	1:R:418:SER:HA	2.15	0.45
1:S:335:SER:N	1:S:406:ASN:HD22	2.14	0.45
1:T:82:ARG:NH1	1:T:236:LYS:HD3	2.31	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:W:386:ASP:OD1	1:W:387:ASP:OD1	2.34	0.45
1:X:396:GLN:OE1	1:X:448:GLN:NE2	2.49	0.45
1:Y:239:ARG:HB3	1:Y:239:ARG:HH21	1.82	0.45
1:Y:335:SER:N	1:Y:406:ASN:HD22	2.14	0.45
1:Z:239:ARG:HB3	1:Z:239:ARG:HH21	1.82	0.45
1:1:82:ARG:NH1	1:1:236:LYS:HD3	2.31	0.45
1:1:245:PHE:CZ	1:1:247:PRO:HG3	2.50	0.45
1:2:316:ASP:O	1:2:418:SER:HA	2.15	0.45
1:2:530:ASN:HD22	1:3:547:LEU:HD21	1.82	0.45
1:3:188:VAL:HG23	1:j:288:GLY:O	2.16	0.45
1:3:342:HIS:ND1	1:3:342:HIS:C	2.73	0.45
1:3:386:ASP:OD1	1:3:387:ASP:OD1	2.34	0.45
1:3:413:HIS:CE1	1:3:428:TRP:HB2	2.50	0.45
1:4:288:GLY:O	1:f:188:VAL:HG23	2.16	0.45
1:5:108:THR:HG21	1:5:210:TYR:HD2	1.80	0.45
1:6:93:GLN:HB2	1:6:229:ASN:O	2.15	0.45
1:6:342:HIS:ND1	1:6:342:HIS:C	2.73	0.45
1:a:188:VAL:HG23	1:b:288:GLY:O	2.16	0.45
1:a:342:HIS:ND1	1:a:342:HIS:C	2.73	0.45
1:e:342:HIS:ND1	1:e:342:HIS:C	2.73	0.45
1:f:386:ASP:OD1	1:f:387:ASP:OD1	2.34	0.45
1:h:39:THR:HB	1:h:147:ASP:HB2	1.97	0.45
1:j:74:GLU:OE2	1:z:381:TYR:OH	2.32	0.45
1:k:316:ASP:O	1:k:418:SER:HA	2.15	0.45
1:l:82:ARG:NH1	1:l:236:LYS:HD3	2.31	0.45
1:l:387:ASP:HA	1:l:388:PRO:HD3	1.84	0.45
1:m:396:GLN:OE1	1:m:448:GLN:NE2	2.49	0.45
1:o:82:ARG:NH1	1:o:236:LYS:HD3	2.31	0.45
1:p:342:HIS:ND1	1:p:342:HIS:C	2.73	0.45
1:q:387:ASP:HA	1:q:388:PRO:HD3	1.84	0.45
1:t:93:GLN:HB2	1:t:229:ASN:O	2.15	0.45
1:u:342:HIS:ND1	1:u:342:HIS:C	2.73	0.45
1:w:39:THR:HB	1:w:147:ASP:HB2	1.97	0.45
1:w:396:GLN:OE1	1:w:448:GLN:NE2	2.49	0.45
1:x:82:ARG:NH1	1:x:236:LYS:HD3	2.31	0.45
1:7:39:THR:HB	1:7:147:ASP:HB2	1.97	0.45
1:0:342:HIS:ND1	1:0:342:HIS:C	2.73	0.45
1:E:335:SER:N	1:E:406:ASN:HD22	2.14	0.45
1:F:239:ARG:HB3	1:F:239:ARG:HH21	1.82	0.45
1:F:342:HIS:CE1	1:Q:406:ASN:CB	2.99	0.45
1:F:528:GLN:NE2	1:F:530:ASN:O	2.49	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:200:ILE:HD11	1:J:203:ARG:CG	2.38	0.45
1:K:82:ARG:NH1	1:K:236:LYS:HD3	2.31	0.45
1:M:357:SER:HB2	1:M:398:ASN:O	2.17	0.45
1:P:357:SER:HB2	1:P:398:ASN:O	2.17	0.45
1:Q:200:ILE:HD11	1:Q:203:ARG:CG	2.38	0.45
1:R:357:SER:HB2	1:R:398:ASN:O	2.17	0.45
1:S:108:THR:HG21	1:S:210:TYR:HD2	1.80	0.45
1:T:188:VAL:HG23	1:f:288:GLY:O	2.16	0.45
1:W:39:THR:HB	1:W:147:ASP:HB2	1.97	0.45
1:W:288:GLY:O	1:Y:188:VAL:HG23	2.16	0.45
1:W:396:GLN:OE1	1:W:448:GLN:NE2	2.49	0.45
1:W:547:LEU:HD21	1:X:530:ASN:HD22	1.82	0.45
1:X:82:ARG:NH1	1:X:236:LYS:HD3	2.31	0.45
1:X:342:HIS:ND1	1:X:342:HIS:C	2.73	0.45
1:Y:108:THR:HG21	1:Y:210:TYR:HD2	1.80	0.45
1:Z:188:VAL:HG23	1:w:288:GLY:O	2.16	0.45
1:Z:288:GLY:O	1:x:188:VAL:HG23	2.16	0.45
1:4:386:ASP:OD1	1:4:387:ASP:OD1	2.34	0.45
1:5:82:ARG:NH1	1:5:236:LYS:HD3	2.31	0.45
1:6:357:SER:HB2	1:6:398:ASN:O	2.17	0.45
1:a:82:ARG:NH1	1:a:236:LYS:HD3	2.31	0.45
1:c:357:SER:HB2	1:c:398:ASN:O	2.17	0.45
1:d:357:SER:HB2	1:d:398:ASN:O	2.17	0.45
1:d:441:ALA:HB2	1:e:465:PRO:HG3	1.98	0.45
1:e:316:ASP:O	1:e:418:SER:HA	2.15	0.45
1:f:413:HIS:CE1	1:f:428:TRP:HB2	2.50	0.45
1:g:93:GLN:HB2	1:g:229:ASN:O	2.15	0.45
1:g:316:ASP:O	1:g:418:SER:HA	2.15	0.45
1:h:200:ILE:HD11	1:h:203:ARG:CG	2.38	0.45
1:h:239:ARG:HB3	1:h:239:ARG:HH21	1.82	0.45
1:h:396:GLN:OE1	1:h:448:GLN:NE2	2.49	0.45
1:i:477:ASP:OD1	1:i:478:GLY:N	2.43	0.45
1:l:316:ASP:O	1:l:418:SER:HA	2.15	0.45
1:m:39:THR:HB	1:m:147:ASP:HB2	1.97	0.45
1:m:239:ARG:HB3	1:m:239:ARG:HH21	1.82	0.45
1:p:82:ARG:NH1	1:p:236:LYS:HD3	2.31	0.45
1:p:468:SER:OG	1:p:471:ALA:O	2.22	0.45
1:r:82:ARG:NH1	1:r:236:LYS:HD3	2.31	0.45
1:r:200:ILE:HD11	1:r:203:ARG:CG	2.38	0.45
1:s:357:SER:HB2	1:s:398:ASN:O	2.17	0.45
1:w:470:HIS:HB3	1:x:329:ASN:OD1	2.15	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:x:396:GLN:OE1	1:x:448:GLN:NE2	2.49	0.45
1:y:316:ASP:O	1:y:418:SER:HA	2.15	0.45
1:y:329:ASN:OD1	1:z:470:HIS:HB3	2.15	0.45
1:z:380:ASP:OD1	1:z:381:TYR:N	2.45	0.45
1:z:404:GLN:HE22	1:z:443:ASP:H	1.63	0.45
1:0:82:ARG:NH1	1:0:236:LYS:HD3	2.31	0.45
1:H:396:GLN:OE1	1:H:448:GLN:NE2	2.49	0.45
1:H:470:HIS:HB3	1:Y:329:ASN:OD1	2.15	0.45
1:I:93:GLN:HB2	1:I:229:ASN:O	2.15	0.45
1:J:357:SER:HB2	1:J:398:ASN:O	2.17	0.45
1:J:386:ASP:OD1	1:J:387:ASP:OD1	2.34	0.45
1:K:528:GLN:NE2	1:K:530:ASN:O	2.49	0.45
1:N:82:ARG:NH1	1:N:236:LYS:HD3	2.31	0.45
1:N:335:SER:N	1:N:406:ASN:HD22	2.14	0.45
1:N:357:SER:HB2	1:N:398:ASN:O	2.17	0.45
1:O:441:ALA:HB2	1:g:465:PRO:HG3	1.98	0.45
1:U:386:ASP:OD1	1:U:387:ASP:OD1	2.34	0.45
1:V:316:ASP:O	1:V:418:SER:HA	2.16	0.45
1:V:342:HIS:ND1	1:V:342:HIS:C	2.73	0.45
1:1:396:GLN:OE1	1:1:448:GLN:NE2	2.49	0.45
1:1:530:ASN:HD22	1:w:547:LEU:HD21	1.82	0.45
1:2:357:SER:HB2	1:2:398:ASN:O	2.17	0.45
1:3:288:GLY:O	1:i:188:VAL:HG23	2.16	0.45
1:6:386:ASP:OD1	1:6:387:ASP:OD1	2.34	0.45
1:a:547:LEU:HD21	1:t:530:ASN:HD22	1.82	0.45
1:b:357:SER:HB2	1:b:398:ASN:O	2.17	0.45
1:c:530:ASN:HD22	1:f:547:LEU:HD21	1.82	0.45
1:d:239:ARG:HB3	1:d:239:ARG:HH21	1.82	0.45
1:d:386:ASP:OD1	1:d:387:ASP:OD1	2.34	0.45
1:e:239:ARG:HB3	1:e:239:ARG:HH21	1.82	0.45
1:f:239:ARG:HB3	1:f:239:ARG:HH21	1.81	0.45
1:f:357:SER:HB2	1:f:398:ASN:O	2.17	0.45
1:f:528:GLN:NE2	1:f:530:ASN:O	2.49	0.45
1:g:319:ASP:N	1:g:320:PRO:CD	2.80	0.45
1:i:380:ASP:OD1	1:i:381:TYR:N	2.44	0.45
1:i:441:ALA:HB2	1:j:465:PRO:HG3	1.98	0.45
1:j:386:ASP:OD1	1:j:387:ASP:OD1	2.34	0.45
1:j:547:LEU:HD21	1:m:530:ASN:HD22	1.82	0.45
1:k:441:ALA:HB2	1:l:465:PRO:HG3	1.98	0.45
1:l:357:SER:HB2	1:l:398:ASN:O	2.17	0.45
1:l:396:GLN:OE1	1:l:448:GLN:NE2	2.49	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:o:239:ARG:HB3	1:o:239:ARG:HH21	1.82	0.45
1:o:528:GLN:NE2	1:o:530:ASN:O	2.49	0.45
1:t:188:VAL:HG23	1:v:288:GLY:O	2.16	0.45
1:u:329:ASN:OD1	1:v:470:HIS:HB3	2.15	0.45
1:v:75:TYR:OH	1:v:249:GLU:OE1	2.28	0.45
1:v:404:GLN:HE22	1:v:443:ASP:H	1.63	0.45
1:y:239:ARG:HB3	1:y:239:ARG:HH21	1.82	0.45
1:y:357:SER:HB2	1:y:398:ASN:O	2.17	0.45
1:z:235:LYS:HE2	1:z:235:LYS:HB2	1.82	0.45
1:z:335:SER:N	1:z:406:ASN:HD22	2.14	0.45
1:z:357:SER:HB2	1:z:398:ASN:O	2.17	0.45
1:7:357:SER:HB2	1:7:398:ASN:O	2.17	0.45
1:0:200:ILE:HD11	1:0:203:ARG:CG	2.38	0.45
1:A:75:TYR:OH	1:A:249:GLU:OE1	2.27	0.45
1:A:239:ARG:HB3	1:A:239:ARG:HH21	1.82	0.45
1:A:441:ALA:HB2	1:G:465:PRO:HG3	1.97	0.45
1:B:396:GLN:OE1	1:B:448:GLN:NE2	2.49	0.45
1:B:547:LEU:HD21	1:I:530:ASN:HD22	1.82	0.45
1:C:316:ASP:O	1:C:418:SER:HA	2.16	0.45
1:C:386:ASP:OD1	1:C:387:ASP:OD1	2.34	0.45
1:D:316:ASP:O	1:D:418:SER:HA	2.16	0.45
1:G:357:SER:HB2	1:G:398:ASN:O	2.17	0.45
1:G:404:GLN:HE22	1:G:443:ASP:H	1.63	0.45
1:H:188:VAL:HG23	1:Y:288:GLY:O	2.16	0.45
1:J:547:LEU:HD21	1:K:530:ASN:HD22	1.82	0.45
1:L:357:SER:HB2	1:L:398:ASN:O	2.17	0.45
1:L:404:GLN:HE22	1:L:443:ASP:H	1.63	0.45
1:M:188:VAL:HG23	1:2:288:GLY:O	2.17	0.45
1:M:386:ASP:OD1	1:M:387:ASP:OD1	2.34	0.45
1:N:122:MET:O	1:N:449:TYR:OH	2.31	0.45
1:O:396:GLN:OE1	1:O:448:GLN:NE2	2.49	0.45
1:Q:477:ASP:OD1	1:Q:478:GLY:N	2.43	0.45
1:S:380:ASP:OD1	1:S:381:TYR:N	2.45	0.45
1:T:441:ALA:HB2	1:4:465:PRO:HG3	1.98	0.45
1:U:357:SER:HB2	1:U:398:ASN:O	2.17	0.45
1:V:82:ARG:NH1	1:V:236:LYS:HD3	2.31	0.45
1:V:122:MET:O	1:V:449:TYR:OH	2.31	0.45
1:Z:108:THR:HG21	1:Z:210:TYR:HD2	1.80	0.45
1:1:342:HIS:ND1	1:1:342:HIS:C	2.73	0.45
1:3:239:ARG:HB3	1:3:239:ARG:HH21	1.81	0.45
1:3:357:SER:HB2	1:3:398:ASN:O	2.17	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:4:122:MET:O	1:4:449:TYR:OH	2.31	0.45
1:4:528:GLN:NE2	1:4:530:ASN:O	2.49	0.45
1:4:547:LEU:HD21	1:h:530:ASN:HD22	1.82	0.45
1:5:319:ASP:N	1:5:320:PRO:CD	2.80	0.45
1:5:528:GLN:NE2	1:5:530:ASN:O	2.49	0.45
1:5:530:ASN:HD22	1:6:547:LEU:HD21	1.82	0.45
1:a:396:GLN:OE1	1:a:448:GLN:NE2	2.49	0.45
1:c:288:GLY:O	1:d:188:VAL:HG23	2.17	0.45
1:c:319:ASP:N	1:c:320:PRO:CD	2.80	0.45
1:e:386:ASP:OD1	1:e:387:ASP:OD1	2.34	0.45
1:g:357:SER:HB2	1:g:398:ASN:O	2.17	0.45
1:g:396:GLN:OE1	1:g:448:GLN:NE2	2.49	0.45
1:l:319:ASP:N	1:l:320:PRO:CD	2.80	0.45
1:n:288:GLY:O	1:o:188:VAL:HG23	2.16	0.45
1:n:530:ASN:HD22	1:y:547:LEU:HD21	1.82	0.45
1:r:357:SER:HB2	1:r:398:ASN:O	2.17	0.45
1:t:331:HIS:CE1	1:u:342:HIS:HD2	2.29	0.45
1:u:239:ARG:HB3	1:u:239:ARG:HH21	1.82	0.45
1:z:108:THR:HG21	1:z:210:TYR:HD2	1.80	0.45
1:0:386:ASP:OD1	1:0:387:ASP:OD1	2.34	0.45
1:A:288:GLY:O	1:G:188:VAL:HG23	2.17	0.45
1:A:357:SER:HB2	1:A:398:ASN:O	2.17	0.45
1:D:217:TRP:HE3	1:D:235:LYS:HD2	1.82	0.45
1:D:530:ASN:HD22	1:M:547:LEU:HD21	1.82	0.45
1:G:288:GLY:O	1:I:188:VAL:HG23	2.16	0.45
1:G:387:ASP:HA	1:G:388:PRO:HD3	1.84	0.45
1:J:530:ASN:HD22	1:K:547:LEU:HD21	1.82	0.45
1:K:288:GLY:O	1:1:188:VAL:HG23	2.16	0.45
1:K:319:ASP:N	1:K:320:PRO:CD	2.80	0.45
1:Q:122:MET:O	1:Q:449:TYR:OH	2.31	0.45
1:R:188:VAL:HG23	1:U:288:GLY:O	2.16	0.45
1:R:387:ASP:HA	1:R:388:PRO:HD3	1.84	0.45
1:S:235:LYS:HE2	1:S:235:LYS:HB2	1.82	0.45
1:S:357:SER:HB2	1:S:398:ASN:O	2.17	0.45
1:T:357:SER:HB2	1:T:398:ASN:O	2.17	0.45
1:V:386:ASP:OD1	1:V:387:ASP:OD1	2.34	0.45
1:X:188:VAL:HG23	1:5:288:GLY:O	2.16	0.45
1:Y:530:ASN:HD22	1:Z:547:LEU:HD21	1.82	0.45
1:Y:547:LEU:HD21	1:Z:530:ASN:HD22	1.82	0.45
1:Z:329:ASN:OD1	1:x:470:HIS:HB3	2.15	0.45
1:Z:396:GLN:OE1	1:Z:448:GLN:NE2	2.49	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:2:319:ASP:N	1:2:320:PRO:CD	2.80	0.45
1:3:217:TRP:HE3	1:3:235:LYS:HD2	1.82	0.45
1:3:528:GLN:NE2	1:3:530:ASN:O	2.49	0.45
1:4:530:ASN:HD22	1:h:547:LEU:HD21	1.82	0.45
1:5:547:LEU:HD21	1:6:530:ASN:HD22	1.82	0.45
1:a:245:PHE:CZ	1:a:247:PRO:HG3	2.50	0.45
1:a:465:PRO:HG3	1:b:441:ALA:HB2	1.98	0.45
1:b:404:GLN:HE22	1:b:443:ASP:H	1.63	0.45
1:c:465:PRO:HG3	1:e:441:ALA:HB2	1.98	0.45
1:f:217:TRP:HE3	1:f:235:LYS:HD2	1.82	0.45
1:h:528:GLN:NE2	1:h:530:ASN:O	2.49	0.45
1:i:357:SER:HB2	1:i:398:ASN:O	2.17	0.45
1:j:380:ASP:OD1	1:j:381:TYR:N	2.45	0.45
1:j:404:GLN:HE22	1:j:443:ASP:H	1.63	0.45
1:k:380:ASP:OD1	1:k:381:TYR:N	2.45	0.45
1:k:386:ASP:OD1	1:k:387:ASP:OD1	2.34	0.45
1:k:396:GLN:OE1	1:k:448:GLN:NE2	2.49	0.45
1:m:200:ILE:HD11	1:m:203:ARG:CG	2.38	0.45
1:n:547:LEU:HD21	1:y:530:ASN:HD22	1.82	0.45
1:p:530:ASN:HD22	1:s:547:LEU:HD21	1.82	0.45
1:p:547:LEU:HD21	1:s:530:ASN:HD22	1.82	0.45
1:q:217:TRP:HE3	1:q:235:LYS:HD2	1.82	0.45
1:v:319:ASP:N	1:v:320:PRO:CD	2.80	0.45
1:v:357:SER:HB2	1:v:398:ASN:O	2.17	0.45
1:x:386:ASP:OD1	1:x:387:ASP:OD1	2.34	0.45
1:7:386:ASP:OD1	1:7:387:ASP:OD1	2.34	0.45
1:7:396:GLN:OE1	1:7:448:GLN:NE2	2.49	0.45
1:B:239:ARG:HB3	1:B:239:ARG:HH21	1.81	0.45
1:B:319:ASP:N	1:B:320:PRO:CD	2.80	0.45
1:B:465:PRO:HG3	1:L:441:ALA:HB2	1.98	0.45
1:C:160:GLY:HA2	1:C:163:GLU:OE1	2.17	0.45
1:C:287:THR:HG21	1:C:569:MET:SD	2.57	0.45
1:C:396:GLN:OE1	1:C:448:GLN:NE2	2.49	0.45
1:E:287:THR:HG21	1:E:569:MET:SD	2.57	0.45
1:G:319:ASP:N	1:G:320:PRO:CD	2.80	0.45
1:H:386:ASP:OD1	1:H:387:ASP:OD1	2.34	0.45
1:K:239:ARG:HB3	1:K:239:ARG:HH21	1.81	0.45
1:K:465:PRO:HG3	1:0:441:ALA:HB2	1.98	0.45
1:L:287:THR:HG21	1:L:569:MET:SD	2.57	0.45
1:M:160:GLY:HA2	1:M:163:GLU:OE1	2.17	0.45
1:M:408:ALA:N	1:M:409:PRO:CD	2.80	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:O:357:SER:HB2	1:O:398:ASN:O	2.17	0.45
1:R:287:THR:HG21	1:R:569:MET:SD	2.57	0.45
1:R:335:SER:N	1:R:406:ASN:HD22	2.14	0.45
1:T:380:ASP:OD1	1:T:381:TYR:N	2.45	0.45
1:T:465:PRO:HG3	1:f:441:ALA:HB2	1.98	0.45
1:U:396:GLN:OE1	1:U:448:GLN:NE2	2.49	0.45
1:Y:217:TRP:HE3	1:Y:235:LYS:HD2	1.82	0.45
1:Y:396:GLN:OE1	1:Y:448:GLN:NE2	2.49	0.45
1:Z:217:TRP:HE3	1:Z:235:LYS:HD2	1.82	0.45
1:2:408:ALA:N	1:2:409:PRO:CD	2.80	0.45
1:2:528:GLN:NE2	1:2:530:ASN:O	2.49	0.45
1:4:217:TRP:HE3	1:4:235:LYS:HD2	1.82	0.45
1:a:319:ASP:N	1:a:320:PRO:CD	2.80	0.45
1:a:530:ASN:HD22	1:t:547:LEU:HD21	1.82	0.45
1:d:160:GLY:HA2	1:d:163:GLU:OE1	2.17	0.45
1:d:408:ALA:N	1:d:409:PRO:CD	2.80	0.45
1:d:547:LEU:HD21	1:q:530:ASN:HD22	1.82	0.45
1:e:528:GLN:NE2	1:e:530:ASN:O	2.49	0.45
1:h:287:THR:HG21	1:h:569:MET:SD	2.57	0.45
1:j:217:TRP:HE3	1:j:235:LYS:HD2	1.82	0.45
1:j:528:GLN:NE2	1:j:530:ASN:O	2.49	0.45
1:j:530:ASN:HD22	1:m:547:LEU:HD21	1.82	0.45
1:k:357:SER:HB2	1:k:398:ASN:O	2.17	0.45
1:k:465:PRO:HG3	1:m:441:ALA:HB2	1.98	0.45
1:m:82:ARG:NH1	1:m:236:LYS:HD3	2.31	0.45
1:m:528:GLN:NE2	1:m:530:ASN:O	2.49	0.45
1:n:122:MET:O	1:n:449:TYR:OH	2.31	0.45
1:n:200:ILE:HD11	1:n:203:ARG:CG	2.38	0.45
1:q:316:ASP:O	1:q:418:SER:HA	2.15	0.45
1:q:441:ALA:HB2	1:r:465:PRO:HG3	1.98	0.45
1:r:217:TRP:HE3	1:r:235:LYS:HD2	1.82	0.45
1:r:288:GLY:O	1:s:188:VAL:HG23	2.16	0.45
1:r:335:SER:N	1:r:406:ASN:HD22	2.14	0.45
1:w:465:PRO:HG3	1:x:441:ALA:HB2	1.98	0.45
1:y:287:THR:HG21	1:y:569:MET:SD	2.57	0.45
1:y:335:SER:N	1:y:406:ASN:HD22	2.14	0.45
1:z:287:THR:HG21	1:z:569:MET:SD	2.57	0.45
1:7:530:ASN:HD22	1:0:547:LEU:HD21	1.82	0.45
1:0:335:SER:N	1:0:406:ASN:HD22	2.14	0.45
1:A:160:GLY:HA2	1:A:163:GLU:OE1	2.17	0.45
1:A:319:ASP:N	1:A:320:PRO:CD	2.80	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:336:TRP:CH2	1:I:435:THR:O	2.70	0.45
1:B:288:GLY:O	1:J:188:VAL:HG23	2.17	0.45
1:B:357:SER:HB2	1:B:398:ASN:O	2.17	0.45
1:B:530:ASN:HD22	1:I:547:LEU:HD21	1.82	0.45
1:C:528:GLN:NE2	1:C:530:ASN:O	2.49	0.45
1:D:188:VAL:HG23	1:P:288:GLY:O	2.16	0.45
1:D:288:GLY:O	1:N:188:VAL:HG23	2.16	0.45
1:D:441:ALA:HB2	1:N:465:PRO:HG3	1.98	0.45
1:G:335:SER:N	1:G:406:ASN:HD22	2.14	0.45
1:H:160:GLY:HA2	1:H:163:GLU:OE1	2.17	0.45
1:H:380:ASP:CG	1:H:381:TYR:H	2.25	0.45
1:H:441:ALA:HB2	1:W:465:PRO:HG3	1.98	0.45
1:I:380:ASP:CG	1:I:381:TYR:H	2.25	0.45
1:J:160:GLY:HA2	1:J:163:GLU:OE1	2.17	0.45
1:N:217:TRP:HE3	1:N:235:LYS:HD2	1.82	0.45
1:N:288:GLY:O	1:P:188:VAL:HG23	2.17	0.45
1:N:530:ASN:HD22	1:O:547:LEU:HD21	1.82	0.45
1:O:386:ASP:OD1	1:O:387:ASP:OD1	2.34	0.45
1:P:217:TRP:HE3	1:P:235:LYS:HD2	1.82	0.45
1:Q:528:GLN:NE2	1:Q:530:ASN:O	2.49	0.45
1:S:287:THR:HG21	1:S:569:MET:SD	2.57	0.45
1:S:528:GLN:NE2	1:S:530:ASN:O	2.49	0.45
1:T:239:ARG:HB3	1:T:239:ARG:HH21	1.82	0.45
1:V:287:THR:HG21	1:V:569:MET:SD	2.57	0.45
1:V:357:SER:HB2	1:V:398:ASN:O	2.17	0.45
1:3:396:GLN:OE1	1:3:448:GLN:NE2	2.49	0.45
1:3:441:ALA:HB2	1:i:465:PRO:HG3	1.98	0.45
1:4:404:GLN:HE22	1:4:443:ASP:H	1.63	0.45
1:5:239:ARG:HB3	1:5:239:ARG:HH21	1.81	0.45
1:6:160:GLY:HA2	1:6:163:GLU:OE1	2.17	0.45
1:6:188:VAL:HG23	1:a:288:GLY:O	2.17	0.45
1:a:239:ARG:HB3	1:a:239:ARG:HH21	1.82	0.45
1:b:530:ASN:HD22	1:e:547:LEU:HD21	1.82	0.45
1:c:335:SER:N	1:c:406:ASN:HD22	2.14	0.45
1:c:408:ALA:N	1:c:409:PRO:CD	2.80	0.45
1:c:528:GLN:NE2	1:c:530:ASN:O	2.49	0.45
1:e:160:GLY:HA2	1:e:163:GLU:OE1	2.17	0.45
1:e:287:THR:HG21	1:e:569:MET:SD	2.57	0.45
1:h:82:ARG:NH1	1:h:236:LYS:HD3	2.31	0.45
1:i:239:ARG:HB3	1:i:239:ARG:HH21	1.82	0.45
1:m:287:THR:HG21	1:m:569:MET:SD	2.57	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:p:287:THR:HG21	1:p:569:MET:SD	2.57	0.45
1:r:122:MET:O	1:r:449:TYR:OH	2.31	0.45
1:t:380:ASP:CG	1:t:381:TYR:H	2.25	0.45
1:u:160:GLY:HA2	1:u:163:GLU:OE1	2.17	0.45
1:u:357:SER:HB2	1:u:398:ASN:O	2.17	0.45
1:v:239:ARG:HB3	1:v:239:ARG:HH21	1.81	0.45
1:w:239:ARG:HB3	1:w:239:ARG:HH21	1.81	0.45
1:x:380:ASP:CG	1:x:381:TYR:H	2.25	0.45
1:x:528:GLN:NE2	1:x:530:ASN:O	2.49	0.45
1:y:188:VAL:HG23	1:7:288:GLY:O	2.16	0.45
1:0:122:MET:O	1:0:449:TYR:OH	2.31	0.45
1:0:287:THR:HG21	1:0:569:MET:SD	2.57	0.45
1:0:357:SER:HB2	1:0:398:ASN:O	2.17	0.45
1:A:530:ASN:HD22	1:F:547:LEU:HD21	1.82	0.45
1:B:245:PHE:CZ	1:B:247:PRO:HG3	2.50	0.45
1:C:319:ASP:N	1:C:320:PRO:CD	2.80	0.45
1:C:441:ALA:HB2	1:2:465:PRO:HG3	1.98	0.45
1:C:547:LEU:HD21	1:L:530:ASN:HD22	1.82	0.45
1:D:287:THR:HG21	1:D:569:MET:SD	2.57	0.45
1:E:386:ASP:OD1	1:E:387:ASP:OD1	2.34	0.45
1:E:530:ASN:HD22	1:P:547:LEU:HD21	1.82	0.45
1:H:217:TRP:HE3	1:H:235:LYS:HD2	1.82	0.45
1:J:441:ALA:HB2	1:L:465:PRO:HG3	1.98	0.45
1:K:380:ASP:CG	1:K:381:TYR:H	2.25	0.45
1:N:319:ASP:N	1:N:320:PRO:CD	2.80	0.45
1:O:160:GLY:HA2	1:O:163:GLU:OE1	2.17	0.45
1:O:380:ASP:OD1	1:O:381:TYR:N	2.45	0.45
1:O:465:PRO:HG3	1:h:441:ALA:HB2	1.98	0.45
1:Q:160:GLY:HA2	1:Q:163:GLU:OE1	2.17	0.45
1:T:408:ALA:N	1:T:409:PRO:CD	2.80	0.45
1:U:319:ASP:N	1:U:320:PRO:CD	2.80	0.45
1:V:279:TYR:OH	1:5:242:ASP:OD2	2.30	0.45
1:V:335:SER:N	1:V:406:ASN:HD22	2.14	0.45
1:V:441:ALA:HB2	1:5:465:PRO:HG3	1.98	0.45
1:W:82:ARG:NH1	1:W:236:LYS:HD3	2.31	0.45
1:W:239:ARG:HB3	1:W:239:ARG:HH21	1.82	0.45
1:W:380:ASP:CG	1:W:381:TYR:H	2.25	0.45
1:Y:160:GLY:HA2	1:Y:163:GLU:OE1	2.17	0.45
1:2:335:SER:N	1:2:406:ASN:HD22	2.14	0.45
1:2:386:ASP:OD1	1:2:387:ASP:OD1	2.34	0.45
1:4:380:ASP:OD1	1:4:381:TYR:N	2.45	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:5:380:ASP:CG	1:5:381:TYR:H	2.25	0.45
1:b:287:THR:HG21	1:b:569:MET:SD	2.57	0.45
1:b:319:ASP:N	1:b:320:PRO:CD	2.80	0.45
1:e:319:ASP:N	1:e:320:PRO:CD	2.80	0.45
1:e:396:GLN:OE1	1:e:448:GLN:NE2	2.49	0.45
1:f:387:ASP:HA	1:f:388:PRO:HD3	1.84	0.45
1:f:396:GLN:OE1	1:f:448:GLN:NE2	2.49	0.45
1:g:287:THR:HG21	1:g:569:MET:SD	2.57	0.45
1:i:408:ALA:N	1:i:409:PRO:CD	2.80	0.45
1:k:547:LEU:HD21	1:r:530:ASN:HD22	1.81	0.45
1:l:287:THR:HG21	1:l:569:MET:SD	2.57	0.45
1:n:160:GLY:HA2	1:n:163:GLU:OE1	2.17	0.45
1:n:528:GLN:NE2	1:n:530:ASN:O	2.49	0.45
1:q:160:GLY:HA2	1:q:163:GLU:OE1	2.17	0.45
1:q:188:VAL:HG23	1:s:288:GLY:O	2.16	0.45
1:q:287:THR:HG21	1:q:569:MET:SD	2.57	0.45
1:q:288:GLY:O	1:r:188:VAL:HG23	2.16	0.45
1:r:287:THR:HG21	1:r:569:MET:SD	2.57	0.45
1:r:319:ASP:N	1:r:320:PRO:CD	2.80	0.45
1:s:217:TRP:HE3	1:s:235:LYS:HD2	1.82	0.45
1:u:319:ASP:N	1:u:320:PRO:CD	2.80	0.45
1:v:160:GLY:HA2	1:v:163:GLU:OE1	2.17	0.45
1:v:335:SER:N	1:v:406:ASN:HD22	2.14	0.45
1:x:160:GLY:HA2	1:x:163:GLU:OE1	2.17	0.45
1:x:287:THR:HG21	1:x:569:MET:SD	2.57	0.45
1:y:160:GLY:HA2	1:y:163:GLU:OE1	2.17	0.45
1:z:396:GLN:OE1	1:z:448:GLN:NE2	2.49	0.45
1:7:319:ASP:N	1:7:320:PRO:CD	2.80	0.45
1:0:235:LYS:HE2	1:0:235:LYS:HB2	1.82	0.45
1:A:188:VAL:HG23	1:I:288:GLY:O	2.17	0.44
1:A:528:GLN:NE2	1:A:530:ASN:O	2.49	0.44
1:D:357:SER:HB2	1:D:398:ASN:O	2.17	0.44
1:F:217:TRP:HE3	1:F:235:LYS:HD2	1.82	0.44
1:F:357:SER:HB2	1:F:398:ASN:O	2.17	0.44
1:G:239:ARG:HB3	1:G:239:ARG:HH21	1.81	0.44
1:G:279:TYR:OH	1:I:242:ASP:OD2	2.30	0.44
1:H:279:TYR:OH	1:W:242:ASP:OD2	2.30	0.44
1:H:287:THR:HG21	1:H:569:MET:SD	2.57	0.44
1:H:528:GLN:NE2	1:H:530:ASN:O	2.49	0.44
1:L:319:ASP:N	1:L:320:PRO:CD	2.80	0.44
1:M:200:ILE:HD11	1:M:203:ARG:CG	2.38	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:287:THR:HG21	1:N:569:MET:SD	2.57	0.44
1:Q:136:GLU:HA	1:Q:277:LEU:HD13	2.00	0.44
1:R:408:ALA:N	1:R:409:PRO:CD	2.80	0.44
1:R:528:GLN:NE2	1:R:530:ASN:O	2.49	0.44
1:S:75:TYR:OH	1:S:249:GLU:OE1	2.28	0.44
1:S:396:GLN:OE1	1:S:448:GLN:NE2	2.49	0.44
1:V:239:ARG:HB3	1:V:239:ARG:HH21	1.81	0.44
1:V:319:ASP:N	1:V:320:PRO:CD	2.80	0.44
1:Z:82:ARG:NH1	1:Z:236:LYS:HD3	2.31	0.44
1:Z:160:GLY:HA2	1:Z:163:GLU:OE1	2.17	0.44
1:1:287:THR:HG21	1:1:569:MET:SD	2.57	0.44
1:3:404:GLN:HE22	1:3:443:ASP:H	1.63	0.44
1:4:136:GLU:HA	1:4:277:LEU:HD13	2.00	0.44
1:4:287:THR:HG21	1:4:569:MET:SD	2.57	0.44
1:4:335:SER:N	1:4:406:ASN:HD22	2.14	0.44
1:5:408:ALA:N	1:5:409:PRO:CD	2.80	0.44
1:6:287:THR:HG21	1:6:569:MET:SD	2.57	0.44
1:a:160:GLY:HA2	1:a:163:GLU:OE1	2.17	0.44
1:a:357:SER:HB2	1:a:398:ASN:O	2.17	0.44
1:c:160:GLY:HA2	1:c:163:GLU:OE1	2.17	0.44
1:d:200:ILE:HD11	1:d:203:ARG:CG	2.38	0.44
1:e:357:SER:HB2	1:e:398:ASN:O	2.17	0.44
1:g:160:GLY:HA2	1:g:163:GLU:OE1	2.17	0.44
1:j:136:GLU:HA	1:j:277:LEU:HD13	2.00	0.44
1:j:287:THR:HG21	1:j:569:MET:SD	2.57	0.44
1:k:160:GLY:HA2	1:k:163:GLU:OE1	2.17	0.44
1:l:160:GLY:HA2	1:l:163:GLU:OE1	2.17	0.44
1:n:136:GLU:HA	1:n:277:LEU:HD13	2.00	0.44
1:o:160:GLY:HA2	1:o:163:GLU:OE1	2.17	0.44
1:o:357:SER:HB2	1:o:398:ASN:O	2.17	0.44
1:q:319:ASP:N	1:q:320:PRO:CD	2.80	0.44
1:t:470:HIS:HB3	1:v:329:ASN:OD1	2.15	0.44
1:u:441:ALA:HB2	1:v:465:PRO:HG3	1.98	0.44
1:v:387:ASP:HA	1:v:388:PRO:HD3	1.84	0.44
1:w:82:ARG:NH1	1:w:236:LYS:HD3	2.31	0.44
1:w:380:ASP:CG	1:w:381:TYR:H	2.25	0.44
1:x:217:TRP:HE3	1:x:235:LYS:HD2	1.82	0.44
1:y:408:ALA:N	1:y:409:PRO:CD	2.80	0.44
1:z:342:HIS:ND1	1:z:342:HIS:C	2.73	0.44
1:z:528:GLN:NE2	1:z:530:ASN:O	2.49	0.44
1:7:217:TRP:HE3	1:7:235:LYS:HD2	1.82	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:160:GLY:HA2	1:B:163:GLU:OE1	2.17	0.44
1:B:242:ASP:OD2	1:L:279:TYR:OH	2.30	0.44
1:C:380:ASP:OD1	1:C:381:TYR:N	2.45	0.44
1:E:136:GLU:HA	1:E:277:LEU:HD13	2.00	0.44
1:F:160:GLY:HA2	1:F:163:GLU:OE1	2.17	0.44
1:G:160:GLY:HA2	1:G:163:GLU:OE1	2.17	0.44
1:G:287:THR:HG21	1:G:569:MET:SD	2.57	0.44
1:G:329:ASN:OD1	1:I:470:HIS:HB3	2.15	0.44
1:H:336:TRP:CH2	1:Y:435:THR:O	2.71	0.44
1:I:357:SER:HB2	1:I:398:ASN:O	2.17	0.44
1:J:239:ARG:HB3	1:J:239:ARG:HH21	1.82	0.44
1:K:408:ALA:N	1:K:409:PRO:CD	2.80	0.44
1:O:82:ARG:NH1	1:O:236:LYS:HD3	2.31	0.44
1:P:287:THR:HG21	1:P:569:MET:SD	2.57	0.44
1:P:319:ASP:N	1:P:320:PRO:CD	2.80	0.44
1:P:528:GLN:NE2	1:P:530:ASN:O	2.49	0.44
1:R:160:GLY:HA2	1:R:163:GLU:OE1	2.17	0.44
1:U:160:GLY:HA2	1:U:163:GLU:OE1	2.17	0.44
1:U:217:TRP:HE3	1:U:235:LYS:HD2	1.82	0.44
1:U:408:ALA:N	1:U:409:PRO:CD	2.80	0.44
1:U:530:ASN:HD22	1:V:547:LEU:HD21	1.82	0.44
1:W:136:GLU:HA	1:W:277:LEU:HD13	2.00	0.44
1:W:287:THR:HG21	1:W:569:MET:SD	2.57	0.44
1:W:530:ASN:HD22	1:X:547:LEU:HD21	1.82	0.44
1:X:287:THR:HG21	1:X:569:MET:SD	2.57	0.44
1:Y:82:ARG:NH1	1:Y:236:LYS:HD3	2.31	0.44
1:Z:435:THR:O	1:x:336:TRP:CH2	2.71	0.44
1:2:160:GLY:HA2	1:2:163:GLU:OE1	2.17	0.44
1:3:387:ASP:HA	1:3:388:PRO:HD3	1.84	0.44
1:4:357:SER:HB2	1:4:398:ASN:O	2.17	0.44
1:6:441:ALA:HB2	1:b:465:PRO:HG3	1.98	0.44
1:c:386:ASP:OD1	1:c:387:ASP:OD1	2.34	0.44
1:d:319:ASP:N	1:d:320:PRO:CD	2.80	0.44
1:d:380:ASP:CG	1:d:381:TYR:H	2.25	0.44
1:e:380:ASP:OD1	1:e:381:TYR:N	2.45	0.44
1:f:404:GLN:HE22	1:f:443:ASP:H	1.63	0.44
1:g:408:ALA:N	1:g:409:PRO:CD	2.80	0.44
1:h:319:ASP:N	1:h:320:PRO:CD	2.80	0.44
1:k:82:ARG:NH1	1:k:236:LYS:HD3	2.31	0.44
1:k:287:THR:HG21	1:k:569:MET:SD	2.57	0.44
1:m:357:SER:HB2	1:m:398:ASN:O	2.17	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:o:217:TRP:HE3	1:o:235:LYS:HD2	1.82	0.44
1:p:136:GLU:HA	1:p:277:LEU:HD13	2.00	0.44
1:p:319:ASP:N	1:p:320:PRO:CD	2.80	0.44
1:p:357:SER:HB2	1:p:398:ASN:O	2.17	0.44
1:p:386:ASP:OD1	1:p:387:ASP:OD1	2.34	0.44
1:s:287:THR:HG21	1:s:569:MET:SD	2.57	0.44
1:s:319:ASP:N	1:s:320:PRO:CD	2.80	0.44
1:t:357:SER:HB2	1:t:398:ASN:O	2.17	0.44
1:u:528:GLN:NE2	1:u:530:ASN:O	2.49	0.44
1:v:217:TRP:HE3	1:v:235:LYS:HD2	1.82	0.44
1:v:408:ALA:N	1:v:409:PRO:CD	2.80	0.44
1:w:136:GLU:HA	1:w:277:LEU:HD13	2.00	0.44
1:y:528:GLN:NE2	1:y:530:ASN:O	2.49	0.44
1:7:160:GLY:HA2	1:7:163:GLU:OE1	2.17	0.44
1:7:408:ALA:N	1:7:409:PRO:CD	2.80	0.44
1:0:319:ASP:N	1:0:320:PRO:CD	2.80	0.44
1:A:287:THR:HG21	1:A:569:MET:SD	2.57	0.44
1:A:342:HIS:HD2	1:I:331:HIS:CE1	2.30	0.44
1:C:357:SER:HB2	1:C:398:ASN:O	2.17	0.44
1:D:160:GLY:HA2	1:D:163:GLU:OE1	2.17	0.44
1:D:319:ASP:N	1:D:320:PRO:CD	2.80	0.44
1:D:380:ASP:CG	1:D:381:TYR:H	2.25	0.44
1:E:319:ASP:N	1:E:320:PRO:CD	2.80	0.44
1:E:547:LEU:HD21	1:P:530:ASN:HD22	1.83	0.44
1:F:242:ASP:OD2	1:Q:279:TYR:OH	2.30	0.44
1:G:217:TRP:HE3	1:G:235:LYS:HD2	1.82	0.44
1:G:408:ALA:N	1:G:409:PRO:CD	2.80	0.44
1:J:287:THR:HG21	1:J:569:MET:SD	2.57	0.44
1:J:396:GLN:OE1	1:J:448:GLN:NE2	2.49	0.44
1:K:380:ASP:OD1	1:K:381:TYR:N	2.45	0.44
1:M:380:ASP:CG	1:M:381:TYR:H	2.25	0.44
1:P:408:ALA:N	1:P:409:PRO:CD	2.80	0.44
1:R:75:TYR:OH	1:R:249:GLU:OE1	2.27	0.44
1:R:217:TRP:HE3	1:R:235:LYS:HD2	1.82	0.44
1:T:319:ASP:N	1:T:320:PRO:CD	2.80	0.44
1:T:528:GLN:NE2	1:T:530:ASN:O	2.49	0.44
1:X:136:GLU:HA	1:X:277:LEU:HD13	2.00	0.44
1:1:239:ARG:HB3	1:1:239:ARG:HH21	1.81	0.44
1:2:136:GLU:HA	1:2:277:LEU:HD13	2.00	0.44
1:3:465:PRO:HG3	1:j:441:ALA:HB2	1.98	0.44
1:5:380:ASP:OD1	1:5:381:TYR:N	2.45	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:a:242:ASP:OD2	1:b:279:TYR:OH	2.30	0.44
1:c:279:TYR:OH	1:d:242:ASP:OD2	2.30	0.44
1:h:357:SER:HB2	1:h:398:ASN:O	2.17	0.44
1:j:335:SER:N	1:j:406:ASN:HD22	2.14	0.44
1:j:357:SER:HB2	1:j:398:ASN:O	2.17	0.44
1:l:408:ALA:N	1:l:409:PRO:CD	2.80	0.44
1:m:319:ASP:N	1:m:320:PRO:CD	2.80	0.44
1:q:357:SER:HB2	1:q:398:ASN:O	2.17	0.44
1:s:528:GLN:NE2	1:s:530:ASN:O	2.49	0.44
1:v:287:THR:HG21	1:v:569:MET:SD	2.57	0.44
1:w:287:THR:HG21	1:w:569:MET:SD	2.57	0.44
1:x:319:ASP:N	1:x:320:PRO:CD	2.80	0.44
1:x:357:SER:HB2	1:x:398:ASN:O	2.17	0.44
1:y:387:ASP:HA	1:y:388:PRO:HD3	1.84	0.44
1:A:217:TRP:HE3	1:A:235:LYS:HD2	1.82	0.44
1:B:48:PHE:CE1	1:B:57:ILE:HG23	2.53	0.44
1:F:404:GLN:HE22	1:F:443:ASP:H	1.63	0.44
1:H:319:ASP:N	1:H:320:PRO:CD	2.80	0.44
1:H:357:SER:HB2	1:H:398:ASN:O	2.17	0.44
1:K:287:THR:HG21	1:K:569:MET:SD	2.57	0.44
1:L:160:GLY:HA2	1:L:163:GLU:OE1	2.17	0.44
1:L:477:ASP:OD1	1:L:478:GLY:N	2.43	0.44
1:M:287:THR:HG21	1:M:569:MET:SD	2.57	0.44
1:M:319:ASP:N	1:M:320:PRO:CD	2.80	0.44
1:N:408:ALA:N	1:N:409:PRO:CD	2.80	0.44
1:O:287:THR:HG21	1:O:569:MET:SD	2.57	0.44
1:O:319:ASP:N	1:O:320:PRO:CD	2.80	0.44
1:O:435:THR:O	1:g:336:TRP:CH2	2.71	0.44
1:R:380:ASP:CG	1:R:381:TYR:H	2.25	0.44
1:S:48:PHE:CE1	1:S:57:ILE:HG23	2.53	0.44
1:S:319:ASP:N	1:S:320:PRO:CD	2.80	0.44
1:S:342:HIS:ND1	1:S:342:HIS:C	2.73	0.44
1:U:287:THR:HG21	1:U:569:MET:SD	2.57	0.44
1:X:160:GLY:HA2	1:X:163:GLU:OE1	2.17	0.44
1:Y:122:MET:O	1:Y:449:TYR:OH	2.31	0.44
1:1:136:GLU:HA	1:1:277:LEU:HD13	2.00	0.44
1:1:160:GLY:HA2	1:1:163:GLU:OE1	2.17	0.44
1:1:547:LEU:HD21	1:w:530:ASN:HD22	1.83	0.44
1:2:82:ARG:NH1	1:2:236:LYS:HD3	2.31	0.44
1:2:217:TRP:HE3	1:2:235:LYS:HD2	1.82	0.44
1:4:48:PHE:CE1	1:4:57:ILE:HG23	2.53	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:4:441:ALA:HB2	1:f:465:PRO:HG3	1.98	0.44
1:4:468:SER:OG	1:4:471:ALA:O	2.21	0.44
1:6:396:GLN:OE1	1:6:448:GLN:NE2	2.49	0.44
1:6:528:GLN:NE2	1:6:530:ASN:O	2.49	0.44
1:a:48:PHE:CE1	1:a:57:ILE:HG23	2.53	0.44
1:c:48:PHE:CE1	1:c:57:ILE:HG23	2.53	0.44
1:c:136:GLU:HA	1:c:277:LEU:HD13	2.00	0.44
1:d:287:THR:HG21	1:d:569:MET:SD	2.57	0.44
1:f:408:ALA:N	1:f:409:PRO:CD	2.80	0.44
1:h:217:TRP:HE3	1:h:235:LYS:HD2	1.82	0.44
1:i:136:GLU:HA	1:i:277:LEU:HD13	2.00	0.44
1:i:319:ASP:N	1:i:320:PRO:CD	2.80	0.44
1:i:530:ASN:HD22	1:z:547:LEU:HD21	1.82	0.44
1:j:48:PHE:CE1	1:j:57:ILE:HG23	2.53	0.44
1:m:217:TRP:HE3	1:m:235:LYS:HD2	1.82	0.44
1:o:404:GLN:HE22	1:o:443:ASP:H	1.63	0.44
1:p:217:TRP:HE3	1:p:235:LYS:HD2	1.82	0.44
1:q:380:ASP:CG	1:q:381:TYR:H	2.25	0.44
1:r:239:ARG:HB3	1:r:239:ARG:HH21	1.81	0.44
1:r:408:ALA:N	1:r:409:PRO:CD	2.80	0.44
1:s:408:ALA:N	1:s:409:PRO:CD	2.80	0.44
1:t:160:GLY:HA2	1:t:163:GLU:OE1	2.17	0.44
1:u:82:ARG:NH1	1:u:236:LYS:HD3	2.31	0.44
1:u:217:TRP:HE3	1:u:235:LYS:HD2	1.82	0.44
1:u:287:THR:HG21	1:u:569:MET:SD	2.57	0.44
1:y:217:TRP:HE3	1:y:235:LYS:HD2	1.82	0.44
1:y:380:ASP:CG	1:y:381:TYR:H	2.25	0.44
1:z:288:GLY:O	1:7:188:VAL:HG23	2.16	0.44
1:z:319:ASP:N	1:z:320:PRO:CD	2.80	0.44
1:0:239:ARG:HB3	1:0:239:ARG:HH21	1.82	0.44
1:A:82:ARG:NH1	1:A:236:LYS:HD3	2.31	0.44
1:B:336:TRP:CH2	1:L:435:THR:O	2.71	0.44
1:B:528:GLN:NE2	1:B:530:ASN:O	2.49	0.44
1:C:435:THR:O	1:2:336:TRP:CH2	2.71	0.44
1:D:408:ALA:N	1:D:409:PRO:CD	2.80	0.44
1:E:217:TRP:HE3	1:E:235:LYS:HD2	1.82	0.44
1:E:357:SER:HB2	1:E:398:ASN:O	2.17	0.44
1:F:319:ASP:N	1:F:320:PRO:CD	2.80	0.44
1:H:48:PHE:CE1	1:H:57:ILE:HG23	2.53	0.44
1:I:160:GLY:HA2	1:I:163:GLU:OE1	2.17	0.44
1:I:287:THR:HG21	1:I:569:MET:SD	2.57	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:288:GLY:O	1:L:188:VAL:HG23	2.16	0.44
1:J:380:ASP:OD1	1:J:381:TYR:N	2.45	0.44
1:J:528:GLN:NE2	1:J:530:ASN:O	2.49	0.44
1:N:239:ARG:HB3	1:N:239:ARG:HH21	1.81	0.44
1:N:528:GLN:NE2	1:N:530:ASN:O	2.49	0.44
1:O:48:PHE:CE1	1:O:57:ILE:HG23	2.53	0.44
1:Q:287:THR:HG21	1:Q:569:MET:SD	2.57	0.44
1:Q:319:ASP:N	1:Q:320:PRO:CD	2.80	0.44
1:S:387:ASP:HA	1:S:388:PRO:HD3	1.84	0.44
1:T:136:GLU:HA	1:T:277:LEU:HD13	2.00	0.44
1:V:160:GLY:HA2	1:V:163:GLU:OE1	2.17	0.44
1:X:408:ALA:N	1:X:409:PRO:CD	2.80	0.44
1:1:408:ALA:N	1:1:409:PRO:CD	2.80	0.44
1:1:441:ALA:HB2	1:0:465:PRO:HG3	1.98	0.44
1:2:48:PHE:CE1	1:2:57:ILE:HG23	2.53	0.44
1:2:380:ASP:OD1	1:2:381:TYR:N	2.45	0.44
1:3:408:ALA:N	1:3:409:PRO:CD	2.80	0.44
1:5:287:THR:HG21	1:5:569:MET:SD	2.57	0.44
1:6:319:ASP:N	1:6:320:PRO:CD	2.80	0.44
1:a:336:TRP:CH2	1:b:435:THR:O	2.71	0.44
1:b:160:GLY:HA2	1:b:163:GLU:OE1	2.17	0.44
1:b:477:ASP:OD1	1:b:478:GLY:N	2.43	0.44
1:c:82:ARG:NH1	1:c:236:LYS:HD3	2.31	0.44
1:c:217:TRP:HE3	1:c:235:LYS:HD2	1.82	0.44
1:c:336:TRP:CH2	1:e:435:THR:O	2.71	0.44
1:e:408:ALA:N	1:e:409:PRO:CD	2.80	0.44
1:f:136:GLU:HA	1:f:277:LEU:HD13	2.00	0.44
1:f:287:THR:HG21	1:f:569:MET:SD	2.57	0.44
1:g:217:TRP:HE3	1:g:235:LYS:HD2	1.82	0.44
1:i:528:GLN:NE2	1:i:530:ASN:O	2.49	0.44
1:k:319:ASP:N	1:k:320:PRO:CD	2.80	0.44
1:k:435:THR:O	1:l:336:TRP:CH2	2.71	0.44
1:l:217:TRP:HE3	1:l:235:LYS:HD2	1.82	0.44
1:n:48:PHE:CE1	1:n:57:ILE:HG23	2.53	0.44
1:n:287:THR:HG21	1:n:569:MET:SD	2.57	0.44
1:q:408:ALA:N	1:q:409:PRO:CD	2.80	0.44
1:r:528:GLN:NE2	1:r:530:ASN:O	2.49	0.44
1:t:287:THR:HG21	1:t:569:MET:SD	2.57	0.44
1:v:530:ASN:HD22	1:x:547:LEU:HD21	1.82	0.44
1:w:122:MET:O	1:w:449:TYR:OH	2.31	0.44
1:x:48:PHE:CE1	1:x:57:ILE:HG23	2.53	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:z:48:PHE:CE1	1:z:57:ILE:HG23	2.53	0.44
1:7:287:THR:HG21	1:7:569:MET:SD	2.57	0.44
1:A:330:PHE:HZ	1:G:474:ILE:HD12	1.83	0.44
1:A:547:LEU:HD21	1:F:530:ASN:HD22	1.81	0.44
1:B:408:ALA:N	1:B:409:PRO:CD	2.80	0.44
1:D:75:TYR:OH	1:D:249:GLU:OE1	2.27	0.44
1:E:330:PHE:HZ	1:Q:474:ILE:HD12	1.83	0.44
1:G:530:ASN:HD22	1:H:547:LEU:HD21	1.82	0.44
1:I:48:PHE:CE1	1:I:57:ILE:HG23	2.53	0.44
1:I:217:TRP:HE3	1:I:235:LYS:HD2	1.82	0.44
1:J:82:ARG:NH1	1:J:236:LYS:HD3	2.31	0.44
1:J:217:TRP:HE3	1:J:235:LYS:HD2	1.82	0.44
1:N:441:ALA:HB2	1:P:465:PRO:HG3	1.98	0.44
1:Q:48:PHE:CE1	1:Q:57:ILE:HG23	2.53	0.44
1:Q:217:TRP:HE3	1:Q:235:LYS:HD2	1.82	0.44
1:S:288:GLY:O	1:U:188:VAL:HG23	2.16	0.44
1:S:408:ALA:N	1:S:409:PRO:CD	2.80	0.44
1:T:287:THR:HG21	1:T:569:MET:SD	2.57	0.44
1:W:48:PHE:CE1	1:W:57:ILE:HG23	2.53	0.44
1:W:435:THR:O	1:Y:336:TRP:CH2	2.71	0.44
1:X:217:TRP:HE3	1:X:235:LYS:HD2	1.82	0.44
1:Y:408:ALA:N	1:Y:409:PRO:CD	2.80	0.44
1:Z:336:TRP:CH2	1:w:435:THR:O	2.71	0.44
1:1:357:SER:HB2	1:1:398:ASN:O	2.17	0.44
1:2:380:ASP:CG	1:2:381:TYR:H	2.25	0.44
1:3:136:GLU:HA	1:3:277:LEU:HD13	2.00	0.44
1:3:319:ASP:N	1:3:320:PRO:CD	2.80	0.44
1:4:408:ALA:N	1:4:409:PRO:CD	2.80	0.44
1:5:217:TRP:HE3	1:5:235:LYS:HD2	1.82	0.44
1:6:288:GLY:O	1:b:188:VAL:HG23	2.16	0.44
1:a:217:TRP:HE3	1:a:235:LYS:HD2	1.82	0.44
1:a:408:ALA:N	1:a:409:PRO:CD	2.80	0.44
1:e:82:ARG:NH1	1:e:236:LYS:HD3	2.31	0.44
1:f:160:GLY:HA2	1:f:163:GLU:OE1	2.17	0.44
1:f:319:ASP:N	1:f:320:PRO:CD	2.80	0.44
1:g:381:TYR:OH	1:m:74:GLU:OE2	2.33	0.44
1:j:380:ASP:CG	1:j:381:TYR:H	2.25	0.44
1:k:48:PHE:CE1	1:k:57:ILE:HG23	2.53	0.44
1:k:122:MET:O	1:k:449:TYR:OH	2.31	0.44
1:l:48:PHE:CE1	1:l:57:ILE:HG23	2.53	0.44
1:m:136:GLU:HA	1:m:277:LEU:HD13	2.00	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:n:319:ASP:N	1:n:320:PRO:CD	2.80	0.44
1:o:319:ASP:N	1:o:320:PRO:CD	2.80	0.44
1:r:441:ALA:HB2	1:s:465:PRO:HG3	1.98	0.44
1:t:48:PHE:CE1	1:t:57:ILE:HG23	2.53	0.44
1:t:217:TRP:HE3	1:t:235:LYS:HD2	1.82	0.44
1:u:408:ALA:N	1:u:409:PRO:CD	2.80	0.44
1:u:435:THR:O	1:v:336:TRP:CH2	2.71	0.44
1:z:408:ALA:N	1:z:409:PRO:CD	2.80	0.44
1:7:380:ASP:OD1	1:7:381:TYR:N	2.45	0.44
1:A:408:ALA:N	1:A:409:PRO:CD	2.80	0.44
1:B:217:TRP:HE3	1:B:235:LYS:HD2	1.82	0.44
1:C:82:ARG:NH1	1:C:236:LYS:HD3	2.31	0.44
1:C:136:GLU:HA	1:C:277:LEU:HD13	2.00	0.44
1:C:408:ALA:N	1:C:409:PRO:CD	2.80	0.44
1:D:122:MET:O	1:D:449:TYR:OH	2.31	0.44
1:E:160:GLY:HA2	1:E:163:GLU:OE1	2.17	0.44
1:F:408:ALA:N	1:F:409:PRO:CD	2.80	0.44
1:G:435:THR:O	1:I:336:TRP:CH2	2.71	0.44
1:J:48:PHE:CE1	1:J:57:ILE:HG23	2.53	0.44
1:J:319:ASP:N	1:J:320:PRO:CD	2.80	0.44
1:K:217:TRP:HE3	1:K:235:LYS:HD2	1.82	0.44
1:N:547:LEU:HD21	1:O:530:ASN:HD22	1.82	0.44
1:O:122:MET:O	1:O:449:TYR:OH	2.31	0.44
1:O:314:TRP:HB2	1:O:417:LEU:HD23	2.00	0.44
1:R:435:THR:O	1:S:336:TRP:CH2	2.71	0.44
1:S:217:TRP:HE3	1:S:235:LYS:HD2	1.82	0.44
1:V:48:PHE:CE1	1:V:57:ILE:HG23	2.53	0.44
1:V:217:TRP:HE3	1:V:235:LYS:HD2	1.82	0.44
1:V:235:LYS:HE2	1:V:235:LYS:HB2	1.82	0.44
1:V:408:ALA:N	1:V:409:PRO:CD	2.80	0.44
1:W:319:ASP:N	1:W:320:PRO:CD	2.80	0.44
1:X:319:ASP:N	1:X:320:PRO:CD	2.80	0.44
1:X:357:SER:HB2	1:X:398:ASN:O	2.17	0.44
1:Y:380:ASP:CG	1:Y:381:TYR:H	2.25	0.44
1:Z:287:THR:HG21	1:Z:569:MET:SD	2.57	0.44
1:3:160:GLY:HA2	1:3:163:GLU:OE1	2.17	0.44
1:4:380:ASP:CG	1:4:381:TYR:H	2.25	0.44
1:6:48:PHE:CE1	1:6:57:ILE:HG23	2.53	0.44
1:6:82:ARG:NH1	1:6:236:LYS:HD3	2.31	0.44
1:6:217:TRP:HE3	1:6:235:LYS:HD2	1.82	0.44
1:a:528:GLN:NE2	1:a:530:ASN:O	2.49	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:c:314:TRP:HB2	1:c:417:LEU:HD23	2.00	0.44
1:c:380:ASP:OD1	1:c:381:TYR:N	2.45	0.44
1:c:435:THR:O	1:d:336:TRP:CH2	2.71	0.44
1:e:48:PHE:CE1	1:e:57:ILE:HG23	2.53	0.44
1:e:136:GLU:HA	1:e:277:LEU:HD13	2.00	0.44
1:e:387:ASP:HA	1:e:388:PRO:HD3	1.84	0.44
1:g:48:PHE:CE1	1:g:57:ILE:HG23	2.53	0.44
1:g:136:GLU:HA	1:g:277:LEU:HD13	2.00	0.44
1:h:48:PHE:CE1	1:h:57:ILE:HG23	2.53	0.44
1:h:74:GLU:OE2	1:l:381:TYR:OH	2.33	0.44
1:h:136:GLU:HA	1:h:277:LEU:HD13	2.00	0.44
1:i:287:THR:HG21	1:i:569:MET:SD	2.57	0.44
1:k:314:TRP:HB2	1:k:417:LEU:HD23	2.00	0.44
1:k:530:ASN:HD22	1:r:547:LEU:HD21	1.82	0.44
1:m:48:PHE:CE1	1:m:57:ILE:HG23	2.53	0.44
1:n:217:TRP:HE3	1:n:235:LYS:HD2	1.82	0.44
1:o:287:THR:HG21	1:o:569:MET:SD	2.57	0.44
1:o:408:ALA:N	1:o:409:PRO:CD	2.80	0.44
1:p:314:TRP:HB2	1:p:417:LEU:HD23	2.00	0.44
1:s:48:PHE:CE1	1:s:57:ILE:HG23	2.53	0.44
1:t:319:ASP:N	1:t:320:PRO:CD	2.80	0.44
1:t:336:TRP:CH2	1:v:435:THR:O	2.71	0.44
1:t:435:THR:O	1:u:336:TRP:CH2	2.71	0.44
1:v:122:MET:O	1:v:449:TYR:OH	2.31	0.44
1:w:48:PHE:CE1	1:w:57:ILE:HG23	2.53	0.44
1:w:319:ASP:N	1:w:320:PRO:CD	2.80	0.44
1:0:48:PHE:CE1	1:0:57:ILE:HG23	2.53	0.44
1:0:160:GLY:HA2	1:0:163:GLU:OE1	2.17	0.44
1:0:408:ALA:N	1:0:409:PRO:CD	2.80	0.44
1:A:48:PHE:CE1	1:A:57:ILE:HG23	2.53	0.44
1:A:435:THR:O	1:G:336:TRP:CH2	2.71	0.44
1:C:48:PHE:CE1	1:C:57:ILE:HG23	2.53	0.44
1:D:48:PHE:CE1	1:D:57:ILE:HG23	2.53	0.44
1:H:435:THR:O	1:W:336:TRP:CH2	2.71	0.44
1:I:319:ASP:N	1:I:320:PRO:CD	2.80	0.44
1:L:528:GLN:NE2	1:L:530:ASN:O	2.49	0.44
1:M:336:TRP:CH2	1:2:435:THR:O	2.71	0.44
1:P:48:PHE:CE1	1:P:57:ILE:HG23	2.53	0.44
1:Q:314:TRP:HB2	1:Q:417:LEU:HD23	2.00	0.44
1:S:547:LEU:HD21	1:T:530:ASN:HD22	1.82	0.44
1:T:336:TRP:CH2	1:f:435:THR:O	2.71	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:U:48:PHE:CE1	1:U:57:ILE:HG23	2.53	0.44
1:V:113:ILE:HG23	1:V:197:LEU:HD11	2.00	0.44
1:V:465:PRO:HG3	1:X:441:ALA:HB2	1.98	0.44
1:X:200:ILE:HA	1:X:201:PRO:HD3	1.89	0.44
1:Y:287:THR:HG21	1:Y:569:MET:SD	2.57	0.44
1:Z:380:ASP:CG	1:Z:381:TYR:H	2.25	0.44
1:Z:408:ALA:N	1:Z:409:PRO:CD	2.80	0.44
1:2:249:GLU:OE1	1:2:249:GLU:N	2.51	0.44
1:2:287:THR:HG21	1:2:569:MET:SD	2.57	0.44
1:2:314:TRP:HB2	1:2:417:LEU:HD23	2.00	0.44
1:3:287:THR:HG21	1:3:569:MET:SD	2.57	0.44
1:3:435:THR:O	1:i:336:TRP:CH2	2.71	0.44
1:4:200:ILE:HD11	1:4:203:ARG:CG	2.38	0.44
1:5:48:PHE:CE1	1:5:57:ILE:HG23	2.53	0.44
1:6:136:GLU:HA	1:6:277:LEU:HD13	2.00	0.44
1:6:380:ASP:OD1	1:6:381:TYR:N	2.45	0.44
1:c:380:ASP:CG	1:c:381:TYR:H	2.25	0.44
1:g:547:LEU:HD21	1:l:530:ASN:HD22	1.82	0.44
1:i:547:LEU:HD21	1:z:530:ASN:HD22	1.82	0.44
1:j:408:ALA:N	1:j:409:PRO:CD	2.80	0.44
1:l:136:GLU:HA	1:l:277:LEU:HD13	2.00	0.44
1:m:160:GLY:HA2	1:m:163:GLU:OE1	2.17	0.44
1:p:380:ASP:OD1	1:p:381:TYR:N	2.45	0.44
1:q:122:MET:O	1:q:449:TYR:OH	2.31	0.44
1:t:113:ILE:HG23	1:t:197:LEU:HD11	2.00	0.44
1:u:48:PHE:CE1	1:u:57:ILE:HG23	2.53	0.44
1:v:547:LEU:HD21	1:x:530:ASN:HD22	1.82	0.44
1:y:75:TYR:OH	1:y:249:GLU:OE1	2.27	0.44
1:z:113:ILE:HG23	1:z:197:LEU:HD11	2.00	0.44
1:0:113:ILE:HG23	1:0:197:LEU:HD11	2.00	0.44
1:0:217:TRP:HE3	1:0:235:LYS:HD2	1.82	0.44
1:D:136:GLU:HA	1:D:277:LEU:HD13	2.00	0.44
1:D:435:THR:O	1:N:336:TRP:CH2	2.71	0.44
1:E:314:TRP:HB2	1:E:417:LEU:HD23	2.00	0.44
1:E:380:ASP:OD1	1:E:381:TYR:N	2.45	0.44
1:F:287:THR:HG21	1:F:569:MET:SD	2.57	0.44
1:G:547:LEU:HD21	1:H:530:ASN:HD22	1.82	0.44
1:H:113:ILE:HG23	1:H:197:LEU:HD11	2.00	0.44
1:I:113:ILE:HG23	1:I:197:LEU:HD11	2.00	0.44
1:J:136:GLU:HA	1:J:277:LEU:HD13	2.00	0.44
1:K:48:PHE:CE1	1:K:57:ILE:HG23	2.53	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:160:GLY:HA2	1:K:163:GLU:OE1	2.17	0.44
1:K:336:TRP:CH2	1:0:435:THR:O	2.71	0.44
1:L:314:TRP:HB2	1:L:417:LEU:HD23	2.00	0.44
1:M:136:GLU:HA	1:M:277:LEU:HD13	2.00	0.44
1:N:435:THR:O	1:P:336:TRP:CH2	2.71	0.44
1:Q:200:ILE:HA	1:Q:201:PRO:HD3	1.89	0.44
1:R:136:GLU:HA	1:R:277:LEU:HD13	2.00	0.44
1:S:113:ILE:HG23	1:S:197:LEU:HD11	2.00	0.44
1:U:380:ASP:OD1	1:U:381:TYR:N	2.45	0.44
1:V:435:THR:O	1:5:336:TRP:CH2	2.71	0.44
1:W:314:TRP:HB2	1:W:417:LEU:HD23	2.00	0.44
1:1:200:ILE:HA	1:1:201:PRO:HD3	1.89	0.44
1:1:217:TRP:HE3	1:1:235:LYS:HD2	1.82	0.44
1:1:319:ASP:N	1:1:320:PRO:CD	2.80	0.44
1:c:249:GLU:OE1	1:c:249:GLU:N	2.51	0.44
1:d:113:ILE:HG23	1:d:197:LEU:HD11	2.00	0.44
1:e:217:TRP:HE3	1:e:235:LYS:HD2	1.82	0.44
1:f:380:ASP:CG	1:f:381:TYR:H	2.25	0.44
1:g:435:THR:O	1:h:336:TRP:CH2	2.71	0.44
1:h:408:ALA:N	1:h:409:PRO:CD	2.80	0.44
1:l:435:THR:O	1:m:336:TRP:CH2	2.71	0.44
1:n:239:ARG:HB3	1:n:239:ARG:HH21	1.81	0.44
1:n:314:TRP:HB2	1:n:417:LEU:HD23	2.00	0.44
1:o:380:ASP:OD1	1:o:381:TYR:N	2.44	0.44
1:p:160:GLY:HA2	1:p:163:GLU:OE1	2.17	0.44
1:q:48:PHE:CE1	1:q:57:ILE:HG23	2.53	0.44
1:q:435:THR:O	1:r:336:TRP:CH2	2.71	0.44
1:w:336:TRP:CH2	1:x:435:THR:O	2.71	0.44
1:x:113:ILE:HG23	1:x:197:LEU:HD11	2.00	0.44
1:y:435:THR:O	1:z:336:TRP:CH2	2.71	0.44
1:z:136:GLU:HA	1:z:277:LEU:HD13	2.00	0.44
1:z:387:ASP:HA	1:z:388:PRO:HD3	1.84	0.44
1:7:48:PHE:CE1	1:7:57:ILE:HG23	2.53	0.44
1:7:86:PHE:CD1	1:7:87:PRO:HD2	2.53	0.44
1:A:200:ILE:HD11	1:A:203:ARG:CG	2.38	0.43
1:B:392:ASP:OD1	1:B:393:GLN:N	2.50	0.43
1:C:530:ASN:HD22	1:L:547:LEU:HD21	1.82	0.43
1:E:86:PHE:CD1	1:E:87:PRO:HD2	2.53	0.43
1:F:136:GLU:HA	1:F:277:LEU:HD13	1.99	0.43
1:F:314:TRP:HB2	1:F:417:LEU:HD23	2.00	0.43
1:G:136:GLU:HA	1:G:277:LEU:HD13	2.00	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:122:MET:O	1:I:449:TYR:OH	2.31	0.43
1:I:314:TRP:HB2	1:I:417:LEU:HD23	2.00	0.43
1:M:113:ILE:HG23	1:M:197:LEU:HD11	2.00	0.43
1:M:217:TRP:HE3	1:M:235:LYS:HD2	1.82	0.43
1:O:86:PHE:CD1	1:O:87:PRO:HD2	2.53	0.43
1:P:86:PHE:CD1	1:P:87:PRO:HD2	2.53	0.43
1:Q:239:ARG:HB3	1:Q:239:ARG:HH21	1.81	0.43
1:Q:530:ASN:HD22	1:R:547:LEU:HD21	1.83	0.43
1:Q:547:LEU:HD21	1:R:530:ASN:HD22	1.83	0.43
1:U:86:PHE:CD1	1:U:87:PRO:HD2	2.54	0.43
1:U:239:ARG:HB3	1:U:239:ARG:HH21	1.81	0.43
1:5:160:GLY:HA2	1:5:163:GLU:OE1	2.17	0.43
1:b:314:TRP:HB2	1:b:417:LEU:HD23	2.00	0.43
1:b:528:GLN:NE2	1:b:530:ASN:O	2.49	0.43
1:b:547:LEU:HD21	1:e:530:ASN:HD22	1.82	0.43
1:c:200:ILE:HA	1:c:201:PRO:HD3	1.89	0.43
1:c:287:THR:HG21	1:c:569:MET:SD	2.57	0.43
1:d:136:GLU:HA	1:d:277:LEU:HD13	2.00	0.43
1:d:217:TRP:HE3	1:d:235:LYS:HD2	1.82	0.43
1:e:235:LYS:HE2	1:e:235:LYS:HB2	1.82	0.43
1:g:314:TRP:HB2	1:g:417:LEU:HD23	2.00	0.43
1:g:530:ASN:HD22	1:l:547:LEU:HD21	1.82	0.43
1:h:160:GLY:HA2	1:h:163:GLU:OE1	2.17	0.43
1:k:86:PHE:CD1	1:k:87:PRO:HD2	2.53	0.43
1:l:314:TRP:HB2	1:l:417:LEU:HD23	2.00	0.43
1:m:408:ALA:N	1:m:409:PRO:CD	2.80	0.43
1:n:86:PHE:CD1	1:n:87:PRO:HD2	2.53	0.43
1:q:136:GLU:HA	1:q:277:LEU:HD13	2.00	0.43
1:r:435:THR:O	1:s:336:TRP:CH2	2.71	0.43
1:s:86:PHE:CD1	1:s:87:PRO:HD2	2.53	0.43
1:u:380:ASP:CG	1:u:381:TYR:H	2.25	0.43
1:w:217:TRP:HE3	1:w:235:LYS:HD2	1.82	0.43
1:w:314:TRP:HB2	1:w:417:LEU:HD23	2.00	0.43
1:y:136:GLU:HA	1:y:277:LEU:HD13	1.99	0.43
1:z:217:TRP:HE3	1:z:235:LYS:HD2	1.82	0.43
1:z:239:ARG:HB3	1:z:239:ARG:HH21	1.81	0.43
1:z:392:ASP:OD1	1:z:393:GLN:N	2.50	0.43
1:0:380:ASP:OD1	1:0:381:TYR:N	2.45	0.43
1:A:86:PHE:CD1	1:A:87:PRO:HD2	2.53	0.43
1:A:380:ASP:CG	1:A:381:TYR:H	2.25	0.43
1:B:287:THR:HG21	1:B:569:MET:SD	2.57	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:217:TRP:HE3	1:C:235:LYS:HD2	1.82	0.43
1:C:379:PHE:CE2	1:C:392:ASP:HB3	2.54	0.43
1:E:408:ALA:N	1:E:409:PRO:CD	2.80	0.43
1:E:528:GLN:NE2	1:E:530:ASN:O	2.49	0.43
1:G:289:SER:HA	1:I:188:VAL:HG23	2.00	0.43
1:I:136:GLU:HA	1:I:277:LEU:HD13	2.00	0.43
1:I:235:LYS:HE2	1:I:235:LYS:HB2	1.82	0.43
1:J:435:THR:O	1:L:336:TRP:CH2	2.71	0.43
1:L:379:PHE:CE2	1:L:392:ASP:HB3	2.54	0.43
1:M:86:PHE:CD1	1:M:87:PRO:HD2	2.53	0.43
1:N:136:GLU:HA	1:N:277:LEU:HD13	2.00	0.43
1:N:380:ASP:CG	1:N:381:TYR:H	2.25	0.43
1:Q:86:PHE:CD1	1:Q:87:PRO:HD2	2.54	0.43
1:R:319:ASP:N	1:R:320:PRO:CD	2.80	0.43
1:S:136:GLU:HA	1:S:277:LEU:HD13	2.00	0.43
1:S:314:TRP:HB2	1:S:417:LEU:HD23	2.00	0.43
1:S:392:ASP:OD1	1:S:393:GLN:N	2.50	0.43
1:S:530:ASN:HD22	1:T:547:LEU:HD21	1.82	0.43
1:U:113:ILE:HG23	1:U:197:LEU:HD11	2.00	0.43
1:V:336:TRP:CH2	1:X:435:THR:O	2.71	0.43
1:W:217:TRP:HE3	1:W:235:LYS:HD2	1.82	0.43
1:W:357:SER:HB2	1:W:398:ASN:O	2.17	0.43
1:W:528:GLN:NE2	1:W:530:ASN:O	2.49	0.43
1:X:48:PHE:CE1	1:X:57:ILE:HG23	2.53	0.43
1:X:239:ARG:HB3	1:X:239:ARG:HH21	1.81	0.43
1:1:48:PHE:CE1	1:1:57:ILE:HG23	2.53	0.43
1:1:314:TRP:HB2	1:1:417:LEU:HD23	2.00	0.43
1:2:86:PHE:CD1	1:2:87:PRO:HD2	2.53	0.43
1:2:379:PHE:CE2	1:2:392:ASP:HB3	2.54	0.43
1:3:380:ASP:CG	1:3:381:TYR:H	2.25	0.43
1:4:160:GLY:HA2	1:4:163:GLU:OE1	2.17	0.43
1:6:336:TRP:CH2	1:a:435:THR:O	2.71	0.43
1:6:435:THR:O	1:b:336:TRP:CH2	2.71	0.43
1:a:287:THR:HG21	1:a:569:MET:SD	2.57	0.43
1:b:217:TRP:HE3	1:b:235:LYS:HD2	1.82	0.43
1:c:86:PHE:CD1	1:c:87:PRO:HD2	2.53	0.43
1:d:86:PHE:CD1	1:d:87:PRO:HD2	2.53	0.43
1:d:435:THR:O	1:e:336:TRP:CH2	2.71	0.43
1:d:530:ASN:HD22	1:q:547:LEU:HD21	1.82	0.43
1:e:379:PHE:CE2	1:e:392:ASP:HB3	2.54	0.43
1:j:200:ILE:HD11	1:j:203:ARG:CG	2.38	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:k:188:VAL:HG23	1:m:289:SER:HA	2.01	0.43
1:n:188:VAL:HG23	1:p:289:SER:HA	2.00	0.43
1:o:314:TRP:HB2	1:o:417:LEU:HD23	2.00	0.43
1:p:86:PHE:CD1	1:p:87:PRO:HD2	2.54	0.43
1:p:528:GLN:NE2	1:p:530:ASN:O	2.49	0.43
1:r:160:GLY:HA2	1:r:163:GLU:OE1	2.17	0.43
1:r:314:TRP:HB2	1:r:417:LEU:HD23	2.00	0.43
1:s:160:GLY:HA2	1:s:163:GLU:OE1	2.17	0.43
1:t:136:GLU:HA	1:t:277:LEU:HD13	2.00	0.43
1:t:314:TRP:HB2	1:t:417:LEU:HD23	2.00	0.43
1:u:86:PHE:CD1	1:u:87:PRO:HD2	2.53	0.43
1:v:136:GLU:HA	1:v:277:LEU:HD13	2.00	0.43
1:z:160:GLY:HA2	1:z:163:GLU:OE1	2.17	0.43
1:7:113:ILE:HG23	1:7:197:LEU:HD11	2.00	0.43
1:C:314:TRP:HB2	1:C:417:LEU:HD23	2.00	0.43
1:C:336:TRP:CH2	1:M:435:THR:O	2.71	0.43
1:I:408:ALA:N	1:I:409:PRO:CD	2.80	0.43
1:J:379:PHE:CE2	1:J:392:ASP:HB3	2.54	0.43
1:N:160:GLY:HA2	1:N:163:GLU:OE1	2.17	0.43
1:N:314:TRP:HB2	1:N:417:LEU:HD23	2.00	0.43
1:O:188:VAL:HG23	1:h:289:SER:HA	2.01	0.43
1:S:239:ARG:HB3	1:S:239:ARG:HH21	1.82	0.43
1:T:86:PHE:CD1	1:T:87:PRO:HD2	2.53	0.43
1:T:113:ILE:HG23	1:T:197:LEU:HD11	2.00	0.43
1:V:314:TRP:HB2	1:V:417:LEU:HD23	2.00	0.43
1:V:528:GLN:NE2	1:V:530:ASN:O	2.49	0.43
1:X:314:TRP:HB2	1:X:417:LEU:HD23	2.00	0.43
1:Z:319:ASP:N	1:Z:320:PRO:CD	2.80	0.43
1:1:435:THR:O	1:0:336:TRP:CH2	2.71	0.43
1:3:249:GLU:OE1	1:3:249:GLU:N	2.51	0.43
1:6:379:PHE:CE2	1:6:392:ASP:HB3	2.54	0.43
1:b:379:PHE:CE2	1:b:392:ASP:HB3	2.54	0.43
1:c:379:PHE:CE2	1:c:392:ASP:HB3	2.54	0.43
1:e:314:TRP:HB2	1:e:417:LEU:HD23	2.00	0.43
1:f:249:GLU:OE1	1:f:249:GLU:N	2.51	0.43
1:g:86:PHE:CD1	1:g:87:PRO:HD2	2.54	0.43
1:g:239:ARG:HB3	1:g:239:ARG:HH21	1.82	0.43
1:i:86:PHE:CD1	1:i:87:PRO:HD2	2.53	0.43
1:j:160:GLY:HA2	1:j:163:GLU:OE1	2.17	0.43
1:j:319:ASP:N	1:j:320:PRO:CD	2.80	0.43
1:k:136:GLU:HA	1:k:277:LEU:HD13	2.00	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:k:217:TRP:HE3	1:k:235:LYS:HD2	1.82	0.43
1:k:379:PHE:CE2	1:k:392:ASP:HB3	2.54	0.43
1:m:113:ILE:HG23	1:m:197:LEU:HD11	2.00	0.43
1:o:136:GLU:HA	1:o:277:LEU:HD13	2.00	0.43
1:r:48:PHE:CE1	1:r:57:ILE:HG23	2.53	0.43
1:r:136:GLU:HA	1:r:277:LEU:HD13	2.00	0.43
1:t:188:VAL:HG23	1:v:289:SER:HA	2.01	0.43
1:w:235:LYS:HE2	1:w:235:LYS:HB2	1.82	0.43
1:w:408:ALA:N	1:w:409:PRO:CD	2.80	0.43
1:w:528:GLN:NE2	1:w:530:ASN:O	2.49	0.43
1:z:314:TRP:HB2	1:z:417:LEU:HD23	2.00	0.43
1:7:239:ARG:HB3	1:7:239:ARG:HH21	1.81	0.43
1:0:314:TRP:HB2	1:0:417:LEU:HD23	2.00	0.43
1:B:435:THR:O	1:J:336:TRP:CH2	2.71	0.43
1:B:441:ALA:HB2	1:J:465:PRO:HG3	1.98	0.43
1:C:188:VAL:HG23	1:M:289:SER:HA	2.01	0.43
1:E:122:MET:O	1:E:449:TYR:OH	2.31	0.43
1:F:379:PHE:CE2	1:F:392:ASP:HB3	2.54	0.43
1:G:48:PHE:CE1	1:G:57:ILE:HG23	2.53	0.43
1:H:239:ARG:HB3	1:H:239:ARG:HH21	1.82	0.43
1:K:86:PHE:CD1	1:K:87:PRO:HD2	2.53	0.43
1:K:113:ILE:HG23	1:K:197:LEU:HD11	2.00	0.43
1:L:217:TRP:HE3	1:L:235:LYS:HD2	1.82	0.43
1:N:48:PHE:CE1	1:N:57:ILE:HG23	2.53	0.43
1:N:289:SER:HA	1:P:188:VAL:HG23	2.01	0.43
1:O:217:TRP:HE3	1:O:235:LYS:HD2	1.82	0.43
1:O:336:TRP:CH2	1:h:435:THR:O	2.71	0.43
1:P:160:GLY:HA2	1:P:163:GLU:OE1	2.17	0.43
1:S:160:GLY:HA2	1:S:163:GLU:OE1	2.17	0.43
1:S:380:ASP:CG	1:S:381:TYR:H	2.25	0.43
1:T:160:GLY:HA2	1:T:163:GLU:OE1	2.17	0.43
1:T:435:THR:O	1:4:336:TRP:CH2	2.71	0.43
1:U:547:LEU:HD21	1:V:530:ASN:HD22	1.82	0.43
1:V:380:ASP:OD1	1:V:381:TYR:N	2.45	0.43
1:Y:319:ASP:N	1:Y:320:PRO:CD	2.80	0.43
1:3:48:PHE:CE1	1:3:57:ILE:HG23	2.53	0.43
1:3:314:TRP:HB2	1:3:417:LEU:HD23	2.00	0.43
1:3:336:TRP:CH2	1:j:435:THR:O	2.71	0.43
1:4:113:ILE:HG23	1:4:197:LEU:HD11	2.00	0.43
1:4:319:ASP:N	1:4:320:PRO:CD	2.80	0.43
1:5:86:PHE:CD1	1:5:87:PRO:HD2	2.53	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:6:465:PRO:HG3	1:a:441:ALA:HB2	1.98	0.43
1:b:48:PHE:CE1	1:b:57:ILE:HG23	2.53	0.43
1:d:289:SER:HA	1:e:188:VAL:HG23	2.01	0.43
1:f:48:PHE:CE1	1:f:57:ILE:HG23	2.53	0.43
1:g:289:SER:HA	1:h:188:VAL:HG23	2.01	0.43
1:h:113:ILE:HG23	1:h:197:LEU:HD11	2.00	0.43
1:h:379:PHE:CE2	1:h:392:ASP:HB3	2.54	0.43
1:i:113:ILE:HG23	1:i:197:LEU:HD11	2.00	0.43
1:i:435:THR:O	1:j:336:TRP:CH2	2.71	0.43
1:l:86:PHE:CD1	1:l:87:PRO:HD2	2.54	0.43
1:l:289:SER:HA	1:m:188:VAL:HG23	2.01	0.43
1:m:379:PHE:CE2	1:m:392:ASP:HB3	2.54	0.43
1:n:200:ILE:HA	1:n:201:PRO:HD3	1.89	0.43
1:o:435:THR:O	1:p:336:TRP:CH2	2.71	0.43
1:o:530:ASN:HD22	1:u:547:LEU:HD21	1.82	0.43
1:p:408:ALA:N	1:p:409:PRO:CD	2.80	0.43
1:q:235:LYS:HE2	1:q:235:LYS:HB2	1.82	0.43
1:r:289:SER:HA	1:s:188:VAL:HG23	2.01	0.43
1:r:380:ASP:CG	1:r:381:TYR:H	2.25	0.43
1:t:235:LYS:HE2	1:t:235:LYS:HB2	1.82	0.43
1:t:408:ALA:N	1:t:409:PRO:CD	2.80	0.43
1:u:379:PHE:CE2	1:u:392:ASP:HB3	2.54	0.43
1:v:379:PHE:CE2	1:v:392:ASP:HB3	2.54	0.43
1:w:357:SER:HB2	1:w:398:ASN:O	2.17	0.43
1:z:86:PHE:CD1	1:z:87:PRO:HD2	2.53	0.43
1:7:547:LEU:HD21	1:0:530:ASN:HD22	1.82	0.43
1:0:86:PHE:CD1	1:0:87:PRO:HD2	2.53	0.43
1:A:136:GLU:HA	1:A:277:LEU:HD13	1.99	0.43
1:A:379:PHE:CE2	1:A:392:ASP:HB3	2.54	0.43
1:D:379:PHE:CE2	1:D:392:ASP:HB3	2.54	0.43
1:D:547:LEU:HD21	1:M:530:ASN:HD22	1.82	0.43
1:E:48:PHE:CE1	1:E:57:ILE:HG23	2.53	0.43
1:F:380:ASP:OD1	1:F:381:TYR:N	2.45	0.43
1:G:379:PHE:CE2	1:G:392:ASP:HB3	2.54	0.43
1:G:528:GLN:NE2	1:G:530:ASN:O	2.49	0.43
1:H:474:ILE:HD12	1:Y:330:PHE:HZ	1.84	0.43
1:I:86:PHE:CD1	1:I:87:PRO:HD2	2.53	0.43
1:J:408:ALA:N	1:J:409:PRO:CD	2.80	0.43
1:J:444:ASP:OD1	1:J:562:ARG:NH2	2.52	0.43
1:L:239:ARG:HB3	1:L:239:ARG:HH21	1.81	0.43
1:L:408:ALA:N	1:L:409:PRO:CD	2.80	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:O:136:GLU:HA	1:O:277:LEU:HD13	2.00	0.43
1:O:379:PHE:CE2	1:O:392:ASP:HB3	2.54	0.43
1:Q:379:PHE:CE2	1:Q:392:ASP:HB3	2.54	0.43
1:R:48:PHE:CE1	1:R:57:ILE:HG23	2.53	0.43
1:S:444:ASP:OD1	1:S:562:ARG:NH2	2.52	0.43
1:U:379:PHE:CE2	1:U:392:ASP:HB3	2.54	0.43
1:V:86:PHE:CD1	1:V:87:PRO:HD2	2.53	0.43
1:V:379:PHE:CE2	1:V:392:ASP:HB3	2.54	0.43
1:W:113:ILE:HG23	1:W:197:LEU:HD11	2.00	0.43
1:W:408:ALA:N	1:W:409:PRO:CD	2.80	0.43
1:X:379:PHE:CE2	1:X:392:ASP:HB3	2.54	0.43
1:Y:48:PHE:CE1	1:Y:57:ILE:HG23	2.53	0.43
1:Y:314:TRP:HB2	1:Y:417:LEU:HD23	2.00	0.43
1:Z:48:PHE:CE1	1:Z:57:ILE:HG23	2.53	0.43
1:Z:86:PHE:CD1	1:Z:87:PRO:HD2	2.54	0.43
1:Z:330:PHE:HZ	1:x:474:ILE:HD12	1.84	0.43
1:1:379:PHE:CE2	1:1:392:ASP:HB3	2.54	0.43
1:4:435:THR:O	1:f:336:TRP:CH2	2.71	0.43
1:5:113:ILE:HG23	1:5:197:LEU:HD11	2.00	0.43
1:6:380:ASP:CG	1:6:381:TYR:H	2.25	0.43
1:6:444:ASP:OD1	1:6:562:ARG:NH2	2.52	0.43
1:c:289:SER:HA	1:d:188:VAL:HG23	2.01	0.43
1:f:314:TRP:HB2	1:f:417:LEU:HD23	2.00	0.43
1:h:86:PHE:CD1	1:h:87:PRO:HD2	2.53	0.43
1:i:160:GLY:HA2	1:i:163:GLU:OE1	2.17	0.43
1:k:336:TRP:CH2	1:m:435:THR:O	2.71	0.43
1:l:239:ARG:HB3	1:l:239:ARG:HH21	1.82	0.43
1:l:330:PHE:HZ	1:m:474:ILE:HD12	1.84	0.43
1:n:336:TRP:CH2	1:p:435:THR:O	2.71	0.43
1:n:379:PHE:CE2	1:n:392:ASP:HB3	2.54	0.43
1:n:380:ASP:OD1	1:n:381:TYR:N	2.45	0.43
1:n:435:THR:O	1:o:336:TRP:CH2	2.71	0.43
1:o:379:PHE:CE2	1:o:392:ASP:HB3	2.54	0.43
1:o:547:LEU:HD21	1:u:530:ASN:HD22	1.82	0.43
1:q:379:PHE:CE2	1:q:392:ASP:HB3	2.54	0.43
1:t:122:MET:O	1:t:449:TYR:OH	2.31	0.43
1:u:136:GLU:HA	1:u:277:LEU:HD13	2.00	0.43
1:u:200:ILE:HD11	1:u:203:ARG:CG	2.38	0.43
1:v:48:PHE:CE1	1:v:57:ILE:HG23	2.53	0.43
1:y:48:PHE:CE1	1:y:57:ILE:HG23	2.53	0.43
1:y:319:ASP:N	1:y:320:PRO:CD	2.80	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:z:380:ASP:CG	1:z:381:TYR:H	2.25	0.43
1:z:444:ASP:OD1	1:z:562:ARG:NH2	2.52	0.43
1:0:528:GLN:NE2	1:0:530:ASN:O	2.49	0.43
1:A:444:ASP:OD1	1:A:562:ARG:NH2	2.52	0.43
1:B:314:TRP:HB2	1:B:417:LEU:HD23	2.00	0.43
1:C:122:MET:O	1:C:449:TYR:OH	2.31	0.43
1:C:249:GLU:OE1	1:C:249:GLU:N	2.51	0.43
1:D:336:TRP:CH2	1:P:435:THR:O	2.71	0.43
1:E:289:SER:HA	1:Q:188:VAL:HG23	2.01	0.43
1:E:442:VAL:O	1:Q:461:THR:HB	2.17	0.43
1:F:48:PHE:CE1	1:F:57:ILE:HG23	2.53	0.43
1:G:113:ILE:HG23	1:G:197:LEU:HD11	2.00	0.43
1:K:444:ASP:OD1	1:K:562:ARG:NH2	2.52	0.43
1:L:48:PHE:CE1	1:L:57:ILE:HG23	2.53	0.43
1:L:380:ASP:CG	1:L:381:TYR:H	2.25	0.43
1:O:408:ALA:N	1:O:409:PRO:CD	2.80	0.43
1:O:444:ASP:OD1	1:O:562:ARG:NH2	2.52	0.43
1:P:239:ARG:HB3	1:P:239:ARG:HH21	1.81	0.43
1:S:86:PHE:CD1	1:S:87:PRO:HD2	2.53	0.43
1:U:528:GLN:NE2	1:U:530:ASN:O	2.49	0.43
1:V:136:GLU:HA	1:V:277:LEU:HD13	2.00	0.43
1:V:289:SER:HA	1:5:188:VAL:HG23	2.01	0.43
1:W:379:PHE:CE2	1:W:392:ASP:HB3	2.54	0.43
1:W:387:ASP:HA	1:W:388:PRO:HD3	1.84	0.43
1:X:380:ASP:CG	1:X:381:TYR:H	2.25	0.43
1:Y:86:PHE:CD1	1:Y:87:PRO:HD2	2.54	0.43
1:Z:314:TRP:HB2	1:Z:417:LEU:HD23	2.00	0.43
1:1:290:VAL:HG11	1:0:105:GLN:OE1	2.19	0.43
1:3:86:PHE:CD1	1:3:87:PRO:HD2	2.53	0.43
1:3:444:ASP:OD1	1:3:562:ARG:NH2	2.52	0.43
1:4:249:GLU:OE1	1:4:249:GLU:N	2.51	0.43
1:a:314:TRP:HB2	1:a:417:LEU:HD23	2.00	0.43
1:b:408:ALA:N	1:b:409:PRO:CD	2.80	0.43
1:e:249:GLU:OE1	1:e:249:GLU:N	2.51	0.43
1:f:86:PHE:CD1	1:f:87:PRO:HD2	2.53	0.43
1:f:444:ASP:OD1	1:f:562:ARG:NH2	2.52	0.43
1:g:330:PHE:HZ	1:h:474:ILE:HD12	1.84	0.43
1:i:48:PHE:CE1	1:i:57:ILE:HG23	2.53	0.43
1:j:113:ILE:HG23	1:j:197:LEU:HD11	2.00	0.43
1:j:249:GLU:OE1	1:j:249:GLU:N	2.51	0.43
1:k:408:ALA:N	1:k:409:PRO:CD	2.80	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:k:444:ASP:OD1	1:k:562:ARG:NH2	2.52	0.43
1:l:113:ILE:HG23	1:l:197:LEU:HD11	2.00	0.43
1:m:86:PHE:CD1	1:m:87:PRO:HD2	2.54	0.43
1:m:314:TRP:HB2	1:m:417:LEU:HD23	2.00	0.43
1:p:48:PHE:CE1	1:p:57:ILE:HG23	2.53	0.43
1:p:122:MET:O	1:p:449:TYR:OH	2.31	0.43
1:q:86:PHE:CD1	1:q:87:PRO:HD2	2.53	0.43
1:q:336:TRP:CH2	1:s:435:THR:O	2.71	0.43
1:t:86:PHE:CD1	1:t:87:PRO:HD2	2.53	0.43
1:u:444:ASP:OD1	1:u:562:ARG:NH2	2.52	0.43
1:v:113:ILE:HG23	1:v:197:LEU:HD11	2.00	0.43
1:v:528:GLN:NE2	1:v:530:ASN:O	2.49	0.43
1:w:113:ILE:HG23	1:w:197:LEU:HD11	2.00	0.43
1:w:160:GLY:HA2	1:w:163:GLU:OE1	2.17	0.43
1:w:379:PHE:CE2	1:w:392:ASP:HB3	2.54	0.43
1:7:379:PHE:CE2	1:7:392:ASP:HB3	2.54	0.43
1:0:379:PHE:CE2	1:0:392:ASP:HB3	2.54	0.43
1:C:235:LYS:HE2	1:C:235:LYS:HB2	1.82	0.43
1:E:336:TRP:CH2	1:F:435:THR:O	2.71	0.43
1:F:86:PHE:CD1	1:F:87:PRO:HD2	2.54	0.43
1:H:136:GLU:HA	1:H:277:LEU:HD13	2.00	0.43
1:H:200:ILE:HA	1:H:201:PRO:HD3	1.89	0.43
1:H:289:SER:HA	1:W:188:VAL:HG23	2.01	0.43
1:H:408:ALA:N	1:H:409:PRO:CD	2.80	0.43
1:I:379:PHE:CE2	1:I:392:ASP:HB3	2.54	0.43
1:J:380:ASP:CG	1:J:381:TYR:H	2.25	0.43
1:M:188:VAL:HG23	1:2:289:SER:HA	2.01	0.43
1:N:290:VAL:HG11	1:P:105:GLN:OE1	2.19	0.43
1:N:379:PHE:CE2	1:N:392:ASP:HB3	2.54	0.43
1:O:289:SER:HA	1:g:188:VAL:HG23	2.00	0.43
1:P:136:GLU:HA	1:P:277:LEU:HD13	2.00	0.43
1:P:444:ASP:OD1	1:P:562:ARG:NH2	2.52	0.43
1:Q:408:ALA:N	1:Q:409:PRO:CD	2.80	0.43
1:R:86:PHE:CD1	1:R:87:PRO:HD2	2.54	0.43
1:S:435:THR:O	1:U:336:TRP:CH2	2.71	0.43
1:T:48:PHE:CE1	1:T:57:ILE:HG23	2.53	0.43
1:U:314:TRP:HB2	1:U:417:LEU:HD23	2.00	0.43
1:V:105:GLN:OE1	1:X:290:VAL:HG11	2.19	0.43
1:1:380:ASP:CG	1:1:381:TYR:H	2.25	0.43
1:3:474:ILE:HD12	1:j:330:PHE:HZ	1.84	0.43
1:5:444:ASP:OD1	1:5:562:ARG:NH2	2.52	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:6:408:ALA:N	1:6:409:PRO:CD	2.80	0.43
1:d:48:PHE:CE1	1:d:57:ILE:HG23	2.53	0.43
1:e:122:MET:O	1:e:449:TYR:OH	2.31	0.43
1:g:113:ILE:HG23	1:g:197:LEU:HD11	2.00	0.43
1:h:314:TRP:HB2	1:h:417:LEU:HD23	2.00	0.43
1:h:444:ASP:OD1	1:h:562:ARG:NH2	2.52	0.43
1:i:379:PHE:CE2	1:i:392:ASP:HB3	2.54	0.43
1:k:380:ASP:CG	1:k:381:TYR:H	2.25	0.43
1:l:379:PHE:CE2	1:l:392:ASP:HB3	2.54	0.43
1:n:408:ALA:N	1:n:409:PRO:CD	2.80	0.43
1:o:48:PHE:CE1	1:o:57:ILE:HG23	2.53	0.43
1:o:86:PHE:CD1	1:o:87:PRO:HD2	2.54	0.43
1:r:290:VAL:HG11	1:s:105:GLN:OE1	2.19	0.43
1:t:379:PHE:CE2	1:t:392:ASP:HB3	2.54	0.43
1:v:314:TRP:HB2	1:v:417:LEU:HD23	2.00	0.43
1:x:136:GLU:HA	1:x:277:LEU:HD13	2.00	0.43
1:x:239:ARG:HB3	1:x:239:ARG:HH21	1.82	0.43
1:y:105:GLN:OE1	1:7:290:VAL:HG11	2.19	0.43
1:y:290:VAL:HG11	1:z:105:GLN:OE1	2.19	0.43
1:7:314:TRP:HB2	1:7:417:LEU:HD23	2.00	0.43
1:0:136:GLU:HA	1:0:277:LEU:HD13	2.00	0.43
1:B:113:ILE:HG23	1:B:197:LEU:HD11	2.00	0.43
1:C:200:ILE:HA	1:C:201:PRO:HD3	1.89	0.43
1:D:86:PHE:CD1	1:D:87:PRO:HD2	2.53	0.43
1:G:314:TRP:HB2	1:G:417:LEU:HD23	2.00	0.43
1:G:330:PHE:HZ	1:I:474:ILE:HD12	1.84	0.43
1:H:379:PHE:CE2	1:H:392:ASP:HB3	2.54	0.43
1:H:444:ASP:OD1	1:H:562:ARG:NH2	2.52	0.43
1:J:86:PHE:CD1	1:J:87:PRO:HD2	2.53	0.43
1:K:188:VAL:HG23	1:0:289:SER:HA	2.01	0.43
1:L:249:GLU:OE1	1:L:249:GLU:N	2.51	0.43
1:Q:380:ASP:OD1	1:Q:381:TYR:N	2.45	0.43
1:R:105:GLN:OE1	1:U:290:VAL:HG11	2.19	0.43
1:R:290:VAL:HG11	1:S:105:GLN:OE1	2.19	0.43
1:R:336:TRP:CH2	1:U:435:THR:O	2.71	0.43
1:T:379:PHE:CE2	1:T:392:ASP:HB3	2.54	0.43
1:U:136:GLU:HA	1:U:277:LEU:HD13	2.00	0.43
1:V:290:VAL:HG11	1:5:105:GLN:OE1	2.19	0.43
1:W:160:GLY:HA2	1:W:163:GLU:OE1	2.17	0.43
1:X:336:TRP:CH2	1:5:435:THR:O	2.71	0.43
1:Y:136:GLU:HA	1:Y:277:LEU:HD13	2.00	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:2:200:ILE:HA	1:2:201:PRO:HD3	1.89	0.43
1:2:547:LEU:HD21	1:3:530:ASN:HD22	1.82	0.43
1:4:330:PHE:HZ	1:f:474:ILE:HD12	1.84	0.43
1:6:289:SER:HA	1:b:188:VAL:HG23	2.01	0.43
1:6:392:ASP:OD1	1:6:393:GLN:N	2.50	0.43
1:a:86:PHE:CD1	1:a:87:PRO:HD2	2.53	0.43
1:b:113:ILE:HG23	1:b:197:LEU:HD11	2.00	0.43
1:b:380:ASP:CG	1:b:381:TYR:H	2.25	0.43
1:e:200:ILE:HA	1:e:201:PRO:HD3	1.89	0.43
1:g:379:PHE:CE2	1:g:392:ASP:HB3	2.54	0.43
1:g:380:ASP:CG	1:g:381:TYR:H	2.25	0.43
1:k:289:SER:HA	1:l:188:VAL:HG23	2.00	0.43
1:m:444:ASP:OD1	1:m:562:ARG:NH2	2.52	0.43
1:n:290:VAL:HG11	1:o:105:GLN:OE1	2.19	0.43
1:r:379:PHE:CE2	1:r:392:ASP:HB3	2.54	0.43
1:s:136:GLU:HA	1:s:277:LEU:HD13	2.00	0.43
1:s:444:ASP:OD1	1:s:562:ARG:NH2	2.52	0.43
1:t:290:VAL:HG11	1:u:105:GLN:OE1	2.19	0.43
1:w:86:PHE:CD1	1:w:87:PRO:HD2	2.53	0.43
1:w:188:VAL:HG23	1:x:289:SER:HA	2.01	0.43
1:x:86:PHE:CD1	1:x:87:PRO:HD2	2.54	0.43
1:x:314:TRP:HB2	1:x:417:LEU:HD23	2.00	0.43
1:y:86:PHE:CD1	1:y:87:PRO:HD2	2.53	0.43
1:z:290:VAL:HG11	1:7:105:GLN:OE1	2.19	0.43
1:7:528:GLN:NE2	1:7:530:ASN:O	2.49	0.43
1:B:86:PHE:CD1	1:B:87:PRO:HD2	2.53	0.43
1:B:105:GLN:OE1	1:L:290:VAL:HG11	2.19	0.43
1:C:444:ASP:OD1	1:C:562:ARG:NH2	2.52	0.43
1:D:235:LYS:HE2	1:D:235:LYS:HB2	1.82	0.43
1:H:86:PHE:CD1	1:H:87:PRO:HD2	2.54	0.43
1:H:314:TRP:HB2	1:H:417:LEU:HD23	2.00	0.43
1:I:444:ASP:OD1	1:I:562:ARG:NH2	2.52	0.43
1:K:105:GLN:OE1	1:0:290:VAL:HG11	2.19	0.43
1:K:435:THR:O	1:1:336:TRP:CH2	2.71	0.43
1:L:113:ILE:HG23	1:L:197:LEU:HD11	2.00	0.43
1:L:444:ASP:OD1	1:L:562:ARG:NH2	2.52	0.43
1:O:113:ILE:HG23	1:O:197:LEU:HD11	2.00	0.43
1:R:122:MET:O	1:R:449:TYR:OH	2.31	0.43
1:R:444:ASP:OD1	1:R:562:ARG:NH2	2.52	0.43
1:S:290:VAL:HG11	1:U:105:GLN:OE1	2.19	0.43
1:T:217:TRP:HE3	1:T:235:LYS:HD2	1.82	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:T:289:SER:HA	1:4:188:VAL:HG23	2.00	0.43
1:U:249:GLU:OE1	1:U:249:GLU:N	2.51	0.43
1:V:380:ASP:CG	1:V:381:TYR:H	2.25	0.43
1:W:86:PHE:CD1	1:W:87:PRO:HD2	2.53	0.43
1:Y:444:ASP:OD1	1:Y:562:ARG:NH2	2.52	0.43
1:Z:136:GLU:HA	1:Z:277:LEU:HD13	2.00	0.43
1:Z:444:ASP:OD1	1:Z:562:ARG:NH2	2.52	0.43
1:1:73:GLU:OE2	1:1:486:LYS:NZ	2.50	0.43
1:1:86:PHE:CD1	1:1:87:PRO:HD2	2.53	0.43
1:6:86:PHE:CD1	1:6:87:PRO:HD2	2.53	0.43
1:a:105:GLN:OE1	1:b:290:VAL:HG11	2.19	0.43
1:a:113:ILE:HG23	1:a:197:LEU:HD11	2.00	0.43
1:b:136:GLU:HA	1:b:277:LEU:HD13	2.00	0.43
1:b:444:ASP:OD1	1:b:562:ARG:NH2	2.52	0.43
1:e:444:ASP:OD1	1:e:562:ARG:NH2	2.52	0.43
1:g:444:ASP:OD1	1:g:562:ARG:NH2	2.52	0.43
1:j:314:TRP:HB2	1:j:417:LEU:HD23	2.00	0.43
1:k:200:ILE:HA	1:k:201:PRO:HD3	1.89	0.43
1:l:444:ASP:OD1	1:l:562:ARG:NH2	2.52	0.43
1:q:105:GLN:OE1	1:s:290:VAL:HG11	2.19	0.43
1:t:474:ILE:HD12	1:v:330:PHE:HZ	1.84	0.43
1:x:200:ILE:HA	1:x:201:PRO:HD3	1.89	0.43
1:x:379:PHE:CE2	1:x:392:ASP:HB3	2.54	0.43
1:x:408:ALA:N	1:x:409:PRO:CD	2.80	0.43
1:x:444:ASP:OD1	1:x:562:ARG:NH2	2.52	0.43
1:y:289:SER:HA	1:z:188:VAL:HG23	2.01	0.43
1:z:379:PHE:CE2	1:z:392:ASP:HB3	2.54	0.43
1:z:435:THR:O	1:7:336:TRP:CH2	2.71	0.43
1:A:431:ASP:O	1:A:432:TYR:HB2	2.19	0.43
1:A:474:ILE:HD12	1:I:330:PHE:HZ	1.84	0.43
1:D:105:GLN:OE1	1:P:290:VAL:HG11	2.19	0.43
1:D:289:SER:HA	1:N:188:VAL:HG23	2.01	0.43
1:D:474:ILE:HD12	1:P:330:PHE:HZ	1.84	0.43
1:G:290:VAL:HG11	1:I:105:GLN:OE1	2.19	0.43
1:J:289:SER:HA	1:L:188:VAL:HG23	2.01	0.43
1:J:314:TRP:HB2	1:J:417:LEU:HD23	2.00	0.43
1:L:136:GLU:HA	1:L:277:LEU:HD13	2.00	0.43
1:M:48:PHE:CE1	1:M:57:ILE:HG23	2.53	0.43
1:O:380:ASP:CG	1:O:381:TYR:H	2.25	0.43
1:P:431:ASP:O	1:P:432:TYR:HB2	2.19	0.43
1:R:379:PHE:CE2	1:R:392:ASP:HB3	2.54	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:S:379:PHE:CE2	1:S:392:ASP:HB3	2.54	0.43
1:S:431:ASP:O	1:S:432:TYR:HB2	2.19	0.43
1:V:188:VAL:HG23	1:X:289:SER:HA	2.01	0.43
1:W:235:LYS:HE2	1:W:235:LYS:HB2	1.82	0.43
1:X:86:PHE:CD1	1:X:87:PRO:HD2	2.53	0.43
1:X:105:GLN:OE1	1:5:290:VAL:HG11	2.19	0.43
1:X:431:ASP:O	1:X:432:TYR:HB2	2.19	0.43
1:Z:73:GLU:OE2	1:Z:486:LYS:NZ	2.50	0.43
1:1:289:SER:HA	1:0:188:VAL:HG23	2.01	0.43
1:5:136:GLU:HA	1:5:277:LEU:HD13	2.00	0.43
1:6:239:ARG:HB3	1:6:239:ARG:HH21	1.82	0.43
1:b:86:PHE:CD1	1:b:87:PRO:HD2	2.53	0.43
1:b:239:ARG:HB3	1:b:239:ARG:HH21	1.82	0.43
1:b:249:GLU:OE1	1:b:249:GLU:N	2.51	0.43
1:i:217:TRP:HE3	1:i:235:LYS:HD2	1.82	0.43
1:i:289:SER:HA	1:j:188:VAL:HG23	2.00	0.43
1:k:113:ILE:HG23	1:k:197:LEU:HD11	2.00	0.43
1:l:380:ASP:CG	1:l:381:TYR:H	2.25	0.43
1:m:387:ASP:HA	1:m:388:PRO:HD3	1.84	0.43
1:s:239:ARG:HB3	1:s:239:ARG:HH21	1.81	0.43
1:t:444:ASP:OD1	1:t:562:ARG:NH2	2.52	0.43
1:u:113:ILE:HG23	1:u:197:LEU:HD11	2.00	0.43
1:u:330:PHE:HZ	1:v:474:ILE:HD12	1.84	0.43
1:u:431:ASP:O	1:u:432:TYR:HB2	2.19	0.43
1:v:86:PHE:CD1	1:v:87:PRO:HD2	2.53	0.43
1:w:392:ASP:OD1	1:w:393:GLN:N	2.50	0.43
1:y:122:MET:O	1:y:449:TYR:OH	2.31	0.43
1:7:136:GLU:HA	1:7:277:LEU:HD13	2.00	0.43
1:7:249:GLU:OE1	1:7:249:GLU:N	2.51	0.43
1:0:380:ASP:CG	1:0:381:TYR:H	2.25	0.43
1:0:444:ASP:OD1	1:0:562:ARG:NH2	2.52	0.43
1:A:188:VAL:HG23	1:I:289:SER:HA	2.01	0.42
1:A:289:SER:HA	1:G:188:VAL:HG23	2.01	0.42
1:B:379:PHE:CE2	1:B:392:ASP:HB3	2.54	0.42
1:C:113:ILE:HG23	1:C:197:LEU:HD11	2.00	0.42
1:I:249:GLU:OE1	1:I:249:GLU:N	2.51	0.42
1:J:392:ASP:OD1	1:J:393:GLN:N	2.50	0.42
1:K:136:GLU:HA	1:K:277:LEU:HD13	1.99	0.42
1:K:249:GLU:OE1	1:K:249:GLU:N	2.51	0.42
1:K:290:VAL:HG11	1:1:105:GLN:OE1	2.19	0.42
1:L:477:ASP:CG	1:L:478:GLY:H	2.27	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:P:113:ILE:HG23	1:P:197:LEU:HD11	2.00	0.42
1:R:289:SER:HA	1:S:188:VAL:HG23	2.01	0.42
1:T:330:PHE:HZ	1:4:474:ILE:HD12	1.84	0.42
1:U:431:ASP:O	1:U:432:TYR:HB2	2.19	0.42
1:V:444:ASP:OD1	1:V:562:ARG:NH2	2.52	0.42
1:Z:474:ILE:HD12	1:w:330:PHE:HZ	1.84	0.42
1:1:431:ASP:O	1:1:432:TYR:HB2	2.19	0.42
1:2:444:ASP:OD1	1:2:562:ARG:NH2	2.52	0.42
1:3:379:PHE:CE2	1:3:392:ASP:HB3	2.54	0.42
1:4:86:PHE:CD1	1:4:87:PRO:HD2	2.53	0.42
1:4:314:TRP:HB2	1:4:417:LEU:HD23	2.00	0.42
1:5:122:MET:O	1:5:449:TYR:OH	2.31	0.42
1:5:314:TRP:HB2	1:5:417:LEU:HD23	2.00	0.42
1:6:314:TRP:HB2	1:6:417:LEU:HD23	2.00	0.42
1:a:188:VAL:HG23	1:b:289:SER:HA	2.01	0.42
1:b:477:ASP:CG	1:b:478:GLY:H	2.27	0.42
1:n:242:ASP:OD2	1:p:279:TYR:OH	2.30	0.42
1:q:239:ARG:HB3	1:q:239:ARG:HH21	1.81	0.42
1:q:289:SER:HA	1:r:188:VAL:HG23	2.01	0.42
1:r:431:ASP:O	1:r:432:TYR:HB2	2.19	0.42
1:s:113:ILE:HG23	1:s:197:LEU:HD11	2.00	0.42
1:s:431:ASP:O	1:s:432:TYR:HB2	2.19	0.42
1:t:105:GLN:OE1	1:v:290:VAL:HG11	2.19	0.42
1:t:249:GLU:OE1	1:t:249:GLU:N	2.51	0.42
1:u:314:TRP:HB2	1:u:417:LEU:HD23	2.00	0.42
1:v:431:ASP:O	1:v:432:TYR:HB2	2.19	0.42
1:x:380:ASP:OD1	1:x:381:TYR:N	2.45	0.42
1:y:336:TRP:CH2	1:7:435:THR:O	2.71	0.42
1:y:444:ASP:OD1	1:y:562:ARG:NH2	2.52	0.42
1:z:431:ASP:O	1:z:432:TYR:HB2	2.19	0.42
1:7:431:ASP:O	1:7:432:TYR:HB2	2.19	0.42
1:A:113:ILE:HG23	1:A:197:LEU:HD11	2.00	0.42
1:B:136:GLU:HA	1:B:277:LEU:HD13	2.00	0.42
1:B:188:VAL:HG23	1:L:289:SER:HA	2.01	0.42
1:B:431:ASP:O	1:B:432:TYR:HB2	2.19	0.42
1:C:86:PHE:CD1	1:C:87:PRO:HD2	2.54	0.42
1:C:290:VAL:HG11	1:2:105:GLN:OE1	2.19	0.42
1:E:444:ASP:OD1	1:E:562:ARG:NH2	2.52	0.42
1:F:200:ILE:HA	1:F:201:PRO:HD3	1.89	0.42
1:F:474:ILE:HD12	1:Q:330:PHE:HZ	1.83	0.42
1:G:86:PHE:CD1	1:G:87:PRO:HD2	2.53	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:380:ASP:CG	1:G:381:TYR:H	2.25	0.42
1:G:431:ASP:O	1:G:432:TYR:HB2	2.19	0.42
1:H:376:LYS:HD3	1:Y:317:ARG:H	1.84	0.42
1:H:431:ASP:O	1:H:432:TYR:HB2	2.19	0.42
1:I:535:PRO:HD3	1:I:564:MET:HE3	2.02	0.42
1:J:477:ASP:CG	1:J:478:GLY:H	2.27	0.42
1:K:200:ILE:HA	1:K:201:PRO:HD3	1.89	0.42
1:K:314:TRP:HB2	1:K:417:LEU:HD23	2.00	0.42
1:K:431:ASP:O	1:K:432:TYR:HB2	2.19	0.42
1:L:86:PHE:CD1	1:L:87:PRO:HD2	2.53	0.42
1:N:431:ASP:O	1:N:432:TYR:HB2	2.19	0.42
1:O:290:VAL:HG11	1:g:105:GLN:OE1	2.20	0.42
1:P:314:TRP:HB2	1:P:417:LEU:HD23	2.00	0.42
1:S:289:SER:HA	1:U:188:VAL:HG23	2.01	0.42
1:U:122:MET:O	1:U:449:TYR:OH	2.31	0.42
1:U:444:ASP:OD1	1:U:562:ARG:NH2	2.52	0.42
1:W:330:PHE:HZ	1:Y:474:ILE:HD12	1.84	0.42
1:W:392:ASP:OD1	1:W:393:GLN:N	2.50	0.42
1:X:444:ASP:OD1	1:X:562:ARG:NH2	2.52	0.42
1:1:444:ASP:OD1	1:1:562:ARG:NH2	2.52	0.42
1:2:535:PRO:HD3	1:2:564:MET:HE3	2.02	0.42
1:5:249:GLU:OE1	1:5:249:GLU:N	2.51	0.42
1:5:431:ASP:O	1:5:432:TYR:HB2	2.19	0.42
1:6:290:VAL:HG11	1:b:105:GLN:OE1	2.19	0.42
1:6:477:ASP:CG	1:6:478:GLY:H	2.27	0.42
1:a:379:PHE:CE2	1:a:392:ASP:HB3	2.54	0.42
1:c:105:GLN:OE1	1:e:290:VAL:HG11	2.19	0.42
1:c:444:ASP:OD1	1:c:562:ARG:NH2	2.52	0.42
1:c:535:PRO:HD3	1:c:564:MET:HE3	2.02	0.42
1:c:547:LEU:HD21	1:f:530:ASN:HD22	1.82	0.42
1:d:444:ASP:OD1	1:d:562:ARG:NH2	2.52	0.42
1:e:86:PHE:CD1	1:e:87:PRO:HD2	2.53	0.42
1:e:113:ILE:HG23	1:e:197:LEU:HD11	2.00	0.42
1:i:330:PHE:HZ	1:j:474:ILE:HD12	1.84	0.42
1:k:235:LYS:HE2	1:k:235:LYS:HB2	1.82	0.42
1:k:290:VAL:HG11	1:l:105:GLN:OE1	2.19	0.42
1:n:105:GLN:OE1	1:p:290:VAL:HG11	2.19	0.42
1:p:444:ASP:OD1	1:p:562:ARG:NH2	2.52	0.42
1:q:474:ILE:HD12	1:s:330:PHE:HZ	1.85	0.42
1:r:86:PHE:CD1	1:r:87:PRO:HD2	2.53	0.42
1:u:289:SER:HA	1:v:188:VAL:HG23	2.00	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:w:387:ASP:HA	1:w:388:PRO:HD3	1.84	0.42
1:y:379:PHE:CE2	1:y:392:ASP:HB3	2.54	0.42
1:z:289:SER:HA	1:7:188:VAL:HG23	2.01	0.42
1:7:444:ASP:OD1	1:7:562:ARG:NH2	2.52	0.42
1:A:314:TRP:HB2	1:A:417:LEU:HD23	2.00	0.42
1:B:474:ILE:HD12	1:L:330:PHE:HZ	1.84	0.42
1:D:444:ASP:OD1	1:D:562:ARG:NH2	2.52	0.42
1:E:379:PHE:CE2	1:E:392:ASP:HB3	2.54	0.42
1:F:113:ILE:HG23	1:F:197:LEU:HD11	2.00	0.42
1:G:444:ASP:OD1	1:G:562:ARG:NH2	2.52	0.42
1:H:105:GLN:OE1	1:Y:290:VAL:HG11	2.20	0.42
1:H:188:VAL:HG23	1:Y:289:SER:HA	2.01	0.42
1:J:290:VAL:HG11	1:L:105:GLN:OE1	2.19	0.42
1:K:122:MET:O	1:K:449:TYR:OH	2.31	0.42
1:M:444:ASP:OD1	1:M:562:ARG:NH2	2.52	0.42
1:Q:380:ASP:CG	1:Q:381:TYR:H	2.25	0.42
1:R:314:TRP:HB2	1:R:417:LEU:HD23	2.00	0.42
1:T:290:VAL:HG11	1:4:105:GLN:OE1	2.19	0.42
1:Y:379:PHE:CE2	1:Y:392:ASP:HB3	2.54	0.42
1:Z:290:VAL:HG11	1:x:105:GLN:OE1	2.20	0.42
1:Z:392:ASP:OD1	1:Z:393:GLN:N	2.50	0.42
1:3:105:GLN:OE1	1:j:290:VAL:HG11	2.19	0.42
1:c:188:VAL:HG23	1:e:289:SER:HA	2.01	0.42
1:c:290:VAL:HG11	1:d:105:GLN:OE1	2.19	0.42
1:e:380:ASP:CG	1:e:381:TYR:H	2.25	0.42
1:e:392:ASP:OD1	1:e:393:GLN:N	2.50	0.42
1:f:379:PHE:CE2	1:f:392:ASP:HB3	2.54	0.42
1:g:290:VAL:HG11	1:h:105:GLN:OE1	2.20	0.42
1:h:535:PRO:HD3	1:h:564:MET:HE3	2.02	0.42
1:i:290:VAL:HG11	1:j:105:GLN:OE1	2.19	0.42
1:j:86:PHE:CD1	1:j:87:PRO:HD2	2.53	0.42
1:j:379:PHE:CE2	1:j:392:ASP:HB3	2.54	0.42
1:l:290:VAL:HG11	1:m:105:GLN:OE1	2.20	0.42
1:m:535:PRO:HD3	1:m:564:MET:HE3	2.02	0.42
1:o:73:GLU:OE2	1:o:486:LYS:NZ	2.50	0.42
1:p:379:PHE:CE2	1:p:392:ASP:HB3	2.54	0.42
1:t:289:SER:HA	1:u:188:VAL:HG23	2.01	0.42
1:t:535:PRO:HD3	1:t:564:MET:HE3	2.02	0.42
1:u:290:VAL:HG11	1:v:105:GLN:OE1	2.19	0.42
1:x:431:ASP:O	1:x:432:TYR:HB2	2.19	0.42
1:y:477:ASP:OD1	1:y:478:GLY:N	2.43	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:289:SER:HA	1:2:188:VAL:HG23	2.01	0.42
1:C:392:ASP:OD1	1:C:393:GLN:N	2.50	0.42
1:C:431:ASP:O	1:C:432:TYR:HB2	2.19	0.42
1:H:330:PHE:HZ	1:W:474:ILE:HD12	1.84	0.42
1:H:380:ASP:OD1	1:H:381:TYR:N	2.45	0.42
1:H:477:ASP:CG	1:H:478:GLY:H	2.27	0.42
1:I:431:ASP:O	1:I:432:TYR:HB2	2.19	0.42
1:M:474:ILE:HD12	1:2:330:PHE:HZ	1.85	0.42
1:N:86:PHE:CD1	1:N:87:PRO:HD2	2.53	0.42
1:O:330:PHE:HZ	1:g:474:ILE:HD12	1.84	0.42
1:T:535:PRO:HD3	1:T:564:MET:HE3	2.02	0.42
1:U:535:PRO:HD3	1:U:564:MET:HE3	2.02	0.42
1:V:249:GLU:OE1	1:V:249:GLU:N	2.51	0.42
1:Y:392:ASP:OD1	1:Y:393:GLN:N	2.50	0.42
1:Z:289:SER:HA	1:x:188:VAL:HG23	2.01	0.42
1:Z:379:PHE:CE2	1:Z:392:ASP:HB3	2.54	0.42
1:1:113:ILE:HG23	1:1:197:LEU:HD11	2.00	0.42
1:4:290:VAL:HG11	1:f:105:GLN:OE1	2.19	0.42
1:4:379:PHE:CE2	1:4:392:ASP:HB3	2.54	0.42
1:5:200:ILE:HA	1:5:201:PRO:HD3	1.89	0.42
1:6:431:ASP:O	1:6:432:TYR:HB2	2.19	0.42
1:a:136:GLU:HA	1:a:277:LEU:HD13	2.00	0.42
1:a:431:ASP:O	1:a:432:TYR:HB2	2.19	0.42
1:a:444:ASP:OD1	1:a:562:ARG:NH2	2.52	0.42
1:a:474:ILE:HD12	1:b:330:PHE:HZ	1.84	0.42
1:c:113:ILE:HG23	1:c:197:LEU:HD11	2.00	0.42
1:c:330:PHE:HZ	1:d:474:ILE:HD12	1.85	0.42
1:e:431:ASP:O	1:e:432:TYR:HB2	2.19	0.42
1:h:380:ASP:CG	1:h:381:TYR:H	2.25	0.42
1:h:387:ASP:HA	1:h:388:PRO:HD3	1.84	0.42
1:i:535:PRO:HD3	1:i:564:MET:HE3	2.02	0.42
1:n:113:ILE:HG23	1:n:197:LEU:HD11	2.00	0.42
1:o:113:ILE:HG23	1:o:197:LEU:HD11	2.00	0.42
1:o:200:ILE:HA	1:o:201:PRO:HD3	1.89	0.42
1:p:113:ILE:HG23	1:p:197:LEU:HD11	2.00	0.42
1:q:444:ASP:OD1	1:q:562:ARG:NH2	2.52	0.42
1:s:314:TRP:HB2	1:s:417:LEU:HD23	2.00	0.42
1:v:380:ASP:CG	1:v:381:TYR:H	2.25	0.42
1:v:444:ASP:OD1	1:v:562:ARG:NH2	2.52	0.42
1:w:474:ILE:HD12	1:x:330:PHE:HZ	1.84	0.42
1:x:477:ASP:CG	1:x:478:GLY:H	2.27	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:z:279:TYR:OH	1:7:242:ASP:OD2	2.29	0.42
1:z:535:PRO:HD3	1:z:564:MET:HE3	2.02	0.42
1:7:535:PRO:HD3	1:7:564:MET:HE3	2.02	0.42
1:B:444:ASP:OD1	1:B:562:ARG:NH2	2.52	0.42
1:C:535:PRO:HD3	1:C:564:MET:HE3	2.02	0.42
1:D:239:ARG:HB3	1:D:239:ARG:HH21	1.82	0.42
1:D:314:TRP:HB2	1:D:417:LEU:HD23	2.00	0.42
1:E:477:ASP:CG	1:E:478:GLY:H	2.27	0.42
1:J:113:ILE:HG23	1:J:197:LEU:HD11	2.00	0.42
1:J:431:ASP:O	1:J:432:TYR:HB2	2.19	0.42
1:L:351:ASN:HA	1:L:352:PRO:HD3	1.93	0.42
1:O:447:ILE:HD13	1:O:447:ILE:HG21	1.84	0.42
1:S:279:TYR:OH	1:U:242:ASP:OD2	2.29	0.42
1:S:535:PRO:HD3	1:S:564:MET:HE3	2.02	0.42
1:T:444:ASP:OD1	1:T:562:ARG:NH2	2.52	0.42
1:W:477:ASP:CG	1:W:478:GLY:H	2.27	0.42
1:X:113:ILE:HG23	1:X:197:LEU:HD11	2.00	0.42
1:Z:188:VAL:HG23	1:w:289:SER:HA	2.00	0.42
1:Z:317:ARG:H	1:x:376:LYS:HD3	1.84	0.42
1:2:113:ILE:HG23	1:2:197:LEU:HD11	2.00	0.42
1:3:113:ILE:HG23	1:3:197:LEU:HD11	2.00	0.42
1:6:113:ILE:HG23	1:6:197:LEU:HD11	2.00	0.42
1:6:330:PHE:HZ	1:b:474:ILE:HD12	1.84	0.42
1:c:474:ILE:HD12	1:e:330:PHE:HZ	1.84	0.42
1:d:314:TRP:HB2	1:d:417:LEU:HD23	2.00	0.42
1:e:535:PRO:HD3	1:e:564:MET:HE3	2.02	0.42
1:f:113:ILE:HG23	1:f:197:LEU:HD11	2.00	0.42
1:i:444:ASP:OD1	1:i:562:ARG:NH2	2.52	0.42
1:k:392:ASP:OD1	1:k:393:GLN:N	2.50	0.42
1:m:380:ASP:CG	1:m:381:TYR:H	2.25	0.42
1:n:380:ASP:CG	1:n:381:TYR:H	2.25	0.42
1:n:474:ILE:HD12	1:p:330:PHE:HZ	1.85	0.42
1:o:235:LYS:HB2	1:o:235:LYS:HE2	1.82	0.42
1:o:431:ASP:O	1:o:432:TYR:HB2	2.19	0.42
1:r:326:ARG:HD3	1:s:193:TYR:CZ	2.55	0.42
1:s:380:ASP:CG	1:s:381:TYR:H	2.25	0.42
1:y:314:TRP:HB2	1:y:417:LEU:HD23	2.00	0.42
1:7:122:MET:O	1:7:449:TYR:OH	2.31	0.42
1:0:249:GLU:OE1	1:0:249:GLU:N	2.51	0.42
1:C:380:ASP:CG	1:C:381:TYR:H	2.25	0.42
1:D:113:ILE:HG23	1:D:197:LEU:HD11	2.00	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:330:PHE:HZ	1:N:474:ILE:HD12	1.85	0.42
1:E:535:PRO:HD3	1:E:564:MET:HE3	2.02	0.42
1:F:431:ASP:O	1:F:432:TYR:HB2	2.19	0.42
1:J:330:PHE:HZ	1:L:474:ILE:HD12	1.84	0.42
1:M:105:GLN:OE1	1:2:290:VAL:HG11	2.19	0.42
1:M:379:PHE:CE2	1:M:392:ASP:HB3	2.54	0.42
1:N:326:ARG:HD3	1:P:193:TYR:CZ	2.55	0.42
1:O:105:GLN:OE1	1:h:290:VAL:HG11	2.19	0.42
1:Q:113:ILE:HG23	1:Q:197:LEU:HD11	2.00	0.42
1:Q:444:ASP:OD1	1:Q:562:ARG:NH2	2.52	0.42
1:Q:535:PRO:HD3	1:Q:564:MET:HE3	2.02	0.42
1:R:477:ASP:OD1	1:R:478:GLY:N	2.43	0.42
1:T:314:TRP:HB2	1:T:417:LEU:HD23	2.00	0.42
1:V:474:ILE:HD12	1:X:330:PHE:HZ	1.85	0.42
1:W:289:SER:HA	1:Y:188:VAL:HG23	2.00	0.42
1:W:317:ARG:H	1:Y:376:LYS:HD3	1.85	0.42
1:Y:431:ASP:O	1:Y:432:TYR:HB2	2.19	0.42
1:Y:535:PRO:HD3	1:Y:564:MET:HE3	2.02	0.42
1:Z:113:ILE:HG23	1:Z:197:LEU:HD11	2.00	0.42
1:Z:376:LYS:HD3	1:w:317:ARG:H	1.85	0.42
1:1:249:GLU:OE1	1:1:249:GLU:N	2.51	0.42
1:1:330:PHE:HZ	1:0:474:ILE:HD12	1.85	0.42
1:4:444:ASP:OD1	1:4:562:ARG:NH2	2.52	0.42
1:5:177:VAL:HG22	1:5:485:VAL:HG12	2.02	0.42
1:a:380:ASP:CG	1:a:381:TYR:H	2.25	0.42
1:f:351:ASN:HA	1:f:352:PRO:HD3	1.93	0.42
1:g:317:ARG:H	1:h:376:LYS:HD3	1.84	0.42
1:i:314:TRP:HB2	1:i:417:LEU:HD23	2.00	0.42
1:j:444:ASP:OD1	1:j:562:ARG:NH2	2.52	0.42
1:k:105:GLN:OE1	1:m:290:VAL:HG11	2.19	0.42
1:k:330:PHE:HZ	1:l:474:ILE:HD12	1.84	0.42
1:l:235:LYS:HE2	1:l:235:LYS:HB2	1.82	0.42
1:l:317:ARG:H	1:m:376:LYS:HD3	1.84	0.42
1:n:431:ASP:O	1:n:432:TYR:HB2	2.19	0.42
1:n:444:ASP:OD1	1:n:562:ARG:NH2	2.52	0.42
1:n:535:PRO:HD3	1:n:564:MET:HE3	2.02	0.42
1:o:392:ASP:OD1	1:o:393:GLN:N	2.50	0.42
1:p:177:VAL:HG22	1:p:485:VAL:HG12	2.02	0.42
1:p:535:PRO:HD3	1:p:564:MET:HE3	2.02	0.42
1:q:113:ILE:HG23	1:q:197:LEU:HD11	2.00	0.42
1:q:177:VAL:HG22	1:q:485:VAL:HG12	2.02	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:q:330:PHE:HZ	1:r:474:ILE:HD12	1.85	0.42
1:r:235:LYS:HE2	1:r:235:LYS:HB2	1.82	0.42
1:t:330:PHE:HZ	1:u:474:ILE:HD12	1.84	0.42
1:u:177:VAL:HG22	1:u:485:VAL:HG12	2.02	0.42
1:v:477:ASP:CG	1:v:478:GLY:H	2.27	0.42
1:7:235:LYS:HE2	1:7:235:LYS:HB2	1.82	0.42
1:A:177:VAL:HG22	1:A:485:VAL:HG12	2.02	0.42
1:A:317:ARG:H	1:G:376:LYS:HD3	1.85	0.42
1:B:380:ASP:CG	1:B:381:TYR:H	2.25	0.42
1:C:330:PHE:HZ	1:2:474:ILE:HD12	1.84	0.42
1:E:113:ILE:HG23	1:E:197:LEU:HD11	2.00	0.42
1:E:177:VAL:HG22	1:E:485:VAL:HG12	2.02	0.42
1:F:364:ASP:OD1	1:F:367:VAL:HG12	2.20	0.42
1:F:392:ASP:OD1	1:F:393:GLN:N	2.50	0.42
1:G:177:VAL:HG22	1:G:485:VAL:HG12	2.02	0.42
1:G:317:ARG:H	1:I:376:LYS:HD3	1.85	0.42
1:H:177:VAL:HG22	1:H:485:VAL:HG12	2.02	0.42
1:K:177:VAL:HG22	1:K:485:VAL:HG12	2.02	0.42
1:M:364:ASP:OD1	1:M:367:VAL:HG12	2.20	0.42
1:N:235:LYS:HE2	1:N:235:LYS:HB2	1.82	0.42
1:O:392:ASP:OD1	1:O:393:GLN:N	2.50	0.42
1:O:528:GLN:NE2	1:O:530:ASN:O	2.49	0.42
1:P:379:PHE:CE2	1:P:392:ASP:HB3	2.54	0.42
1:Q:431:ASP:O	1:Q:432:TYR:HB2	2.19	0.42
1:R:113:ILE:HG23	1:R:197:LEU:HD11	2.00	0.42
1:R:188:VAL:HG23	1:U:289:SER:HA	2.00	0.42
1:S:92:LEU:HD23	1:S:92:LEU:HA	1.90	0.42
1:U:364:ASP:OD1	1:U:367:VAL:HG12	2.20	0.42
1:V:193:TYR:CZ	1:X:326:ARG:HD3	2.55	0.42
1:W:535:PRO:HD3	1:W:564:MET:HE3	2.02	0.42
1:X:249:GLU:OE1	1:X:249:GLU:N	2.51	0.42
1:Z:535:PRO:HD3	1:Z:564:MET:HE3	2.02	0.42
1:1:326:ARG:HD3	1:0:193:TYR:CZ	2.55	0.42
1:5:535:PRO:HD3	1:5:564:MET:HE3	2.02	0.42
1:6:474:ILE:HD12	1:a:330:PHE:HZ	1.85	0.42
1:d:364:ASP:OD1	1:d:367:VAL:HG12	2.20	0.42
1:d:379:PHE:CE2	1:d:392:ASP:HB3	2.54	0.42
1:f:535:PRO:HD3	1:f:564:MET:HE3	2.02	0.42
1:g:177:VAL:HG22	1:g:485:VAL:HG12	2.02	0.42
1:h:351:ASN:HA	1:h:352:PRO:HD3	1.93	0.42
1:i:431:ASP:O	1:i:432:TYR:HB2	2.19	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:j:239:ARG:HB3	1:j:239:ARG:HH21	1.81	0.42
1:k:279:TYR:OH	1:l:242:ASP:OD2	2.30	0.42
1:k:317:ARG:H	1:l:376:LYS:HD3	1.85	0.42
1:l:177:VAL:HG22	1:l:485:VAL:HG12	2.02	0.42
1:o:364:ASP:OD1	1:o:367:VAL:HG12	2.20	0.42
1:p:235:LYS:HE2	1:p:235:LYS:HB2	1.82	0.42
1:p:477:ASP:CG	1:p:478:GLY:H	2.27	0.42
1:q:314:TRP:HB2	1:q:417:LEU:HD23	2.00	0.42
1:r:113:ILE:HG23	1:r:197:LEU:HD11	2.00	0.42
1:r:330:PHE:HZ	1:s:474:ILE:HD12	1.85	0.42
1:s:379:PHE:CE2	1:s:392:ASP:HB3	2.54	0.42
1:s:477:ASP:CG	1:s:478:GLY:H	2.27	0.42
1:u:39:THR:HG21	1:u:262:SER:CB	2.46	0.42
1:u:380:ASP:OD1	1:u:381:TYR:N	2.45	0.42
1:v:177:VAL:HG22	1:v:485:VAL:HG12	2.02	0.42
1:x:177:VAL:HG22	1:x:485:VAL:HG12	2.02	0.42
1:y:113:ILE:HG23	1:y:197:LEU:HD11	2.00	0.42
1:y:188:VAL:HG23	1:7:289:SER:HA	2.00	0.42
1:y:380:ASP:OD1	1:y:381:TYR:N	2.45	0.42
1:A:105:GLN:OE1	1:I:290:VAL:HG11	2.20	0.42
1:B:330:PHE:HZ	1:J:474:ILE:HD12	1.84	0.42
1:C:474:ILE:HD12	1:M:330:PHE:HZ	1.84	0.42
1:D:177:VAL:HG22	1:D:485:VAL:HG12	2.02	0.42
1:D:193:TYR:HA	1:P:311:GLY:CA	2.50	0.42
1:E:105:GLN:OE1	1:F:290:VAL:HG11	2.18	0.42
1:E:235:LYS:HE2	1:E:235:LYS:HB2	1.82	0.42
1:E:288:GLY:O	1:Q:188:VAL:HG23	2.20	0.42
1:F:235:LYS:HE2	1:F:235:LYS:HB2	1.82	0.42
1:F:336:TRP:CH2	1:Q:435:THR:O	2.73	0.42
1:G:311:GLY:CA	1:I:193:TYR:HA	2.50	0.42
1:G:477:ASP:CG	1:G:478:GLY:H	2.27	0.42
1:K:364:ASP:OD1	1:K:367:VAL:HG12	2.20	0.42
1:M:314:TRP:HB2	1:M:417:LEU:HD23	2.00	0.42
1:N:113:ILE:HG23	1:N:197:LEU:HD11	2.00	0.42
1:O:364:ASP:OD1	1:O:367:VAL:HG12	2.20	0.42
1:P:380:ASP:CG	1:P:381:TYR:H	2.25	0.42
1:P:477:ASP:CG	1:P:478:GLY:H	2.27	0.42
1:T:105:GLN:OE1	1:f:290:VAL:HG11	2.19	0.42
1:U:380:ASP:CG	1:U:381:TYR:H	2.25	0.42
1:Y:177:VAL:HG22	1:Y:485:VAL:HG12	2.02	0.42
1:Y:249:GLU:OE1	1:Y:249:GLU:N	2.51	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Z:249:GLU:OE1	1:Z:249:GLU:N	2.51	0.42
1:Z:364:ASP:OD1	1:Z:367:VAL:HG12	2.20	0.42
1:Z:431:ASP:O	1:Z:432:TYR:HB2	2.19	0.42
1:1:535:PRO:HD3	1:1:564:MET:HE3	2.02	0.42
1:2:364:ASP:OD1	1:2:367:VAL:HG12	2.20	0.42
1:3:290:VAL:HG11	1:i:105:GLN:OE1	2.19	0.42
1:3:535:PRO:HD3	1:3:564:MET:HE3	2.02	0.42
1:4:239:ARG:HB3	1:4:239:ARG:HH21	1.81	0.42
1:5:364:ASP:OD1	1:5:367:VAL:HG12	2.20	0.42
1:a:364:ASP:OD1	1:a:367:VAL:HG12	2.20	0.42
1:b:431:ASP:O	1:b:432:TYR:HB2	2.19	0.42
1:d:330:PHE:HZ	1:e:474:ILE:HD12	1.84	0.42
1:g:535:PRO:HD3	1:g:564:MET:HE3	2.01	0.42
1:h:200:ILE:HA	1:h:201:PRO:HD3	1.89	0.42
1:m:177:VAL:HG22	1:m:485:VAL:HG12	2.02	0.42
1:m:351:ASN:HA	1:m:352:PRO:HD3	1.93	0.42
1:n:193:TYR:CZ	1:p:326:ARG:HD3	2.55	0.42
1:t:193:TYR:HA	1:v:311:GLY:CA	2.50	0.42
1:t:376:LYS:HD3	1:v:317:ARG:H	1.85	0.42
1:w:535:PRO:HD3	1:w:564:MET:HE3	2.02	0.42
1:7:364:ASP:OD1	1:7:367:VAL:HG12	2.20	0.42
1:7:380:ASP:CG	1:7:381:TYR:H	2.25	0.42
1:B:364:ASP:OD1	1:B:367:VAL:HG12	2.20	0.42
1:C:177:VAL:HG22	1:C:485:VAL:HG12	2.02	0.42
1:D:193:TYR:CZ	1:P:326:ARG:HD3	2.55	0.42
1:K:379:PHE:CE2	1:K:392:ASP:HB3	2.54	0.42
1:K:535:PRO:HD3	1:K:564:MET:HE3	2.02	0.42
1:L:364:ASP:OD1	1:L:367:VAL:HG12	2.20	0.42
1:M:39:THR:HG21	1:M:262:SER:CB	2.46	0.42
1:N:330:PHE:HZ	1:P:474:ILE:HD12	1.85	0.42
1:N:444:ASP:OD1	1:N:562:ARG:NH2	2.52	0.42
1:N:535:PRO:HD3	1:N:564:MET:HE3	2.02	0.42
1:O:317:ARG:H	1:g:376:LYS:HD3	1.85	0.42
1:Q:177:VAL:HG22	1:Q:485:VAL:HG12	2.02	0.42
1:R:317:ARG:H	1:S:376:LYS:HD3	1.85	0.42
1:R:380:ASP:OD1	1:R:381:TYR:N	2.45	0.42
1:R:474:ILE:HD12	1:U:330:PHE:HZ	1.85	0.42
1:T:431:ASP:O	1:T:432:TYR:HB2	2.19	0.42
1:U:235:LYS:HE2	1:U:235:LYS:HB2	1.82	0.42
1:W:311:GLY:CA	1:Y:193:TYR:HA	2.50	0.42
1:W:444:ASP:OD1	1:W:562:ARG:NH2	2.52	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:X:535:PRO:HD3	1:X:564:MET:HE3	2.02	0.42
1:Y:113:ILE:HG23	1:Y:197:LEU:HD11	2.00	0.42
1:Y:364:ASP:OD1	1:Y:367:VAL:HG12	2.20	0.42
1:Z:177:VAL:HG22	1:Z:485:VAL:HG12	2.02	0.42
1:Z:528:GLN:NE2	1:Z:530:ASN:O	2.49	0.42
1:3:351:ASN:HA	1:3:352:PRO:HD3	1.93	0.42
1:4:289:SER:HA	1:f:188:VAL:HG23	2.00	0.42
1:5:379:PHE:CE2	1:5:392:ASP:HB3	2.54	0.42
1:6:188:VAL:HG23	1:a:289:SER:HA	2.01	0.42
1:b:364:ASP:OD1	1:b:367:VAL:HG12	2.20	0.42
1:c:364:ASP:OD1	1:c:367:VAL:HG12	2.20	0.42
1:g:351:ASN:HA	1:g:352:PRO:HD3	1.93	0.42
1:g:380:ASP:OD1	1:g:381:TYR:N	2.45	0.42
1:h:177:VAL:HG22	1:h:485:VAL:HG12	2.02	0.42
1:k:249:GLU:OE1	1:k:249:GLU:N	2.51	0.42
1:k:364:ASP:OD1	1:k:367:VAL:HG12	2.20	0.42
1:k:431:ASP:O	1:k:432:TYR:HB2	2.19	0.42
1:k:528:GLN:NE2	1:k:530:ASN:O	2.49	0.42
1:l:380:ASP:OD1	1:l:381:TYR:N	2.45	0.42
1:m:200:ILE:HA	1:m:201:PRO:HD3	1.89	0.42
1:n:177:VAL:HG22	1:n:485:VAL:HG12	2.02	0.42
1:n:193:TYR:HA	1:p:311:GLY:CA	2.50	0.42
1:o:289:SER:HA	1:p:188:VAL:HG23	2.01	0.42
1:p:351:ASN:HA	1:p:352:PRO:HD3	1.93	0.42
1:q:193:TYR:HA	1:s:311:GLY:CA	2.50	0.42
1:q:193:TYR:CZ	1:s:326:ARG:HD3	2.55	0.42
1:r:311:GLY:CA	1:s:193:TYR:HA	2.50	0.42
1:r:535:PRO:HD3	1:r:564:MET:HE3	2.02	0.42
1:A:364:ASP:OD1	1:A:367:VAL:HG12	2.20	0.42
1:B:289:SER:HA	1:J:188:VAL:HG23	2.01	0.42
1:D:290:VAL:HG11	1:N:105:GLN:OE1	2.19	0.42
1:E:188:VAL:HG23	1:F:289:SER:HA	2.01	0.42
1:E:193:TYR:CZ	1:F:326:ARG:HD3	2.55	0.42
1:G:92:LEU:HD23	1:G:92:LEU:HA	1.90	0.42
1:I:477:ASP:CG	1:I:478:GLY:H	2.27	0.42
1:J:177:VAL:HG22	1:J:485:VAL:HG12	2.02	0.42
1:L:431:ASP:O	1:L:432:TYR:HB2	2.19	0.42
1:O:279:TYR:OH	1:g:242:ASP:OD2	2.30	0.42
1:O:431:ASP:O	1:O:432:TYR:HB2	2.19	0.42
1:Q:364:ASP:OD1	1:Q:367:VAL:HG12	2.20	0.42
1:R:376:LYS:HD3	1:U:317:ARG:H	1.85	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:S:317:ARG:H	1:U:376:LYS:HD3	1.85	0.42
1:T:39:THR:HG21	1:T:262:SER:CB	2.46	0.42
1:V:477:ASP:CG	1:V:478:GLY:H	2.27	0.42
1:W:290:VAL:HG11	1:Y:105:GLN:OE1	2.20	0.42
1:Y:528:GLN:NE2	1:Y:530:ASN:O	2.49	0.42
1:Z:105:GLN:OE1	1:w:290:VAL:HG11	2.20	0.42
1:Z:193:TYR:HA	1:w:311:GLY:CA	2.50	0.42
1:2:431:ASP:O	1:2:432:TYR:HB2	2.19	0.42
1:3:188:VAL:HG23	1:j:289:SER:HA	2.00	0.42
1:3:289:SER:HA	1:i:188:VAL:HG23	2.01	0.42
1:3:431:ASP:O	1:3:432:TYR:HB2	2.19	0.42
1:4:387:ASP:HA	1:4:388:PRO:HD3	1.84	0.42
1:6:177:VAL:HG22	1:6:485:VAL:HG12	2.02	0.42
1:b:351:ASN:HA	1:b:352:PRO:HD3	1.93	0.42
1:c:477:ASP:CG	1:c:478:GLY:H	2.27	0.42
1:e:177:VAL:HG22	1:e:485:VAL:HG12	2.02	0.42
1:g:235:LYS:HE2	1:g:235:LYS:HB2	1.82	0.42
1:k:535:PRO:HD3	1:k:564:MET:HE3	2.02	0.42
1:l:535:PRO:HD3	1:l:564:MET:HE3	2.02	0.42
1:n:235:LYS:HE2	1:n:235:LYS:HB2	1.82	0.42
1:r:444:ASP:OD1	1:r:562:ARG:NH2	2.52	0.42
1:t:317:ARG:H	1:u:376:LYS:HD3	1.85	0.42
1:u:364:ASP:OD1	1:u:367:VAL:HG12	2.20	0.42
1:w:105:GLN:OE1	1:x:290:VAL:HG11	2.19	0.42
1:w:444:ASP:OD1	1:w:562:ARG:NH2	2.52	0.42
1:y:317:ARG:H	1:z:376:LYS:HD3	1.85	0.42
1:y:474:ILE:HD12	1:7:330:PHE:HZ	1.85	0.42
1:A:380:ASP:OD1	1:A:381:TYR:N	2.45	0.41
1:B:290:VAL:HG11	1:J:105:GLN:OE1	2.19	0.41
1:F:444:ASP:OD1	1:F:562:ARG:NH2	2.52	0.41
1:J:326:ARG:HD3	1:L:193:TYR:CZ	2.55	0.41
1:J:364:ASP:OD1	1:J:367:VAL:HG12	2.20	0.41
1:K:289:SER:HA	1:1:188:VAL:HG23	2.01	0.41
1:N:364:ASP:OD1	1:N:367:VAL:HG12	2.20	0.41
1:O:177:VAL:HG22	1:O:485:VAL:HG12	2.02	0.41
1:S:200:ILE:HA	1:S:201:PRO:HD3	1.89	0.41
1:T:188:VAL:HG23	1:f:289:SER:HA	2.01	0.41
1:X:188:VAL:HG23	1:5:289:SER:HA	2.01	0.41
1:X:364:ASP:OD1	1:X:367:VAL:HG12	2.20	0.41
1:1:177:VAL:HG22	1:1:485:VAL:HG12	2.02	0.41
1:2:477:ASP:CG	1:2:478:GLY:H	2.27	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:3:200:ILE:HA	1:3:201:PRO:HD3	1.89	0.41
1:3:364:ASP:OD1	1:3:367:VAL:HG12	2.20	0.41
1:6:105:GLN:OE1	1:a:290:VAL:HG11	2.19	0.41
1:6:364:ASP:OD1	1:6:367:VAL:HG12	2.20	0.41
1:f:364:ASP:OD1	1:f:367:VAL:HG12	2.20	0.41
1:f:431:ASP:O	1:f:432:TYR:HB2	2.19	0.41
1:i:39:THR:HG21	1:i:262:SER:CB	2.46	0.41
1:n:364:ASP:OD1	1:n:367:VAL:HG12	2.20	0.41
1:p:380:ASP:CG	1:p:381:TYR:H	2.25	0.41
1:q:290:VAL:HG11	1:r:105:GLN:OE1	2.19	0.41
1:t:364:ASP:OD1	1:t:367:VAL:HG12	2.20	0.41
1:t:477:ASP:CG	1:t:478:GLY:H	2.27	0.41
1:t:528:GLN:NE2	1:t:530:ASN:O	2.49	0.41
1:y:242:ASP:OD2	1:7:279:TYR:OH	2.30	0.41
1:y:431:ASP:O	1:y:432:TYR:HB2	2.19	0.41
1:z:92:LEU:HD23	1:z:92:LEU:HA	1.90	0.41
1:C:193:TYR:HA	1:M:311:GLY:CA	2.50	0.41
1:D:242:ASP:OD2	1:P:279:TYR:OH	2.30	0.41
1:D:376:LYS:HD3	1:P:317:ARG:H	1.86	0.41
1:E:351:ASN:HA	1:E:352:PRO:HD3	1.93	0.41
1:E:380:ASP:CG	1:E:381:TYR:H	2.25	0.41
1:E:474:ILE:HD12	1:F:330:PHE:HZ	1.84	0.41
1:F:535:PRO:HD3	1:F:564:MET:HE3	2.02	0.41
1:H:290:VAL:HG11	1:W:105:GLN:OE1	2.19	0.41
1:H:364:ASP:OD1	1:H:367:VAL:HG12	2.20	0.41
1:I:364:ASP:OD1	1:I:367:VAL:HG12	2.20	0.41
1:M:477:ASP:CG	1:M:478:GLY:H	2.27	0.41
1:O:249:GLU:OE1	1:O:249:GLU:N	2.51	0.41
1:O:535:PRO:HD3	1:O:564:MET:HE3	2.02	0.41
1:Q:235:LYS:HE2	1:Q:235:LYS:HB2	1.82	0.41
1:R:242:ASP:OD2	1:U:279:TYR:OH	2.30	0.41
1:R:330:PHE:HZ	1:S:474:ILE:HD12	1.84	0.41
1:R:431:ASP:O	1:R:432:TYR:HB2	2.19	0.41
1:R:535:PRO:HD3	1:R:564:MET:HE3	2.02	0.41
1:V:387:ASP:HA	1:V:388:PRO:HD3	1.84	0.41
1:X:177:VAL:HG22	1:X:485:VAL:HG12	2.02	0.41
1:1:364:ASP:OD1	1:1:367:VAL:HG12	2.20	0.41
1:2:343:TYR:HA	1:2:348:PRO:HA	2.03	0.41
1:6:326:ARG:HD3	1:b:193:TYR:CZ	2.55	0.41
1:a:235:LYS:HE2	1:a:235:LYS:HB2	1.82	0.41
1:c:343:TYR:HA	1:c:348:PRO:HA	2.03	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:c:431:ASP:O	1:c:432:TYR:HB2	2.19	0.41
1:d:39:THR:HG21	1:d:262:SER:CB	2.46	0.41
1:g:343:TYR:HA	1:g:348:PRO:HA	2.03	0.41
1:h:431:ASP:O	1:h:432:TYR:HB2	2.19	0.41
1:k:177:VAL:HG22	1:k:485:VAL:HG12	2.02	0.41
1:l:351:ASN:HA	1:l:352:PRO:HD3	1.93	0.41
1:n:289:SER:HA	1:o:188:VAL:HG23	2.01	0.41
1:o:444:ASP:OD1	1:o:562:ARG:NH2	2.52	0.41
1:p:431:ASP:O	1:p:432:TYR:HB2	2.19	0.41
1:q:242:ASP:OD2	1:s:279:TYR:OH	2.30	0.41
1:q:317:ARG:H	1:r:376:LYS:HD3	1.85	0.41
1:v:249:GLU:OE1	1:v:249:GLU:N	2.51	0.41
1:v:392:ASP:OD1	1:v:393:GLN:N	2.50	0.41
1:w:431:ASP:O	1:w:432:TYR:HB2	2.19	0.41
1:x:364:ASP:OD1	1:x:367:VAL:HG12	2.20	0.41
1:y:376:LYS:HD3	1:7:317:ARG:H	1.86	0.41
1:y:535:PRO:HD3	1:y:564:MET:HE3	2.02	0.41
1:z:343:TYR:HA	1:z:348:PRO:HA	2.03	0.41
1:0:477:ASP:CG	1:0:478:GLY:H	2.27	0.41
1:B:380:ASP:OD1	1:B:381:TYR:N	2.45	0.41
1:C:350:ILE:HG21	1:M:314:TRP:CD1	2.56	0.41
1:D:188:VAL:HG23	1:P:289:SER:HA	2.01	0.41
1:D:249:GLU:OE1	1:D:249:GLU:N	2.51	0.41
1:D:326:ARG:HD3	1:N:193:TYR:CZ	2.55	0.41
1:E:343:TYR:HA	1:E:348:PRO:HA	2.03	0.41
1:E:376:LYS:HD3	1:F:317:ARG:H	1.85	0.41
1:F:380:ASP:CG	1:F:381:TYR:H	2.25	0.41
1:G:392:ASP:OD1	1:G:393:GLN:N	2.50	0.41
1:I:528:GLN:NE2	1:I:530:ASN:O	2.49	0.41
1:J:279:TYR:OH	1:L:242:ASP:OD2	2.30	0.41
1:M:350:ILE:HG21	1:2:314:TRP:CD1	2.55	0.41
1:O:350:ILE:HG21	1:h:314:TRP:CD1	2.56	0.41
1:P:343:TYR:HA	1:P:348:PRO:HA	2.03	0.41
1:S:343:TYR:HA	1:S:348:PRO:HA	2.03	0.41
1:T:193:TYR:CZ	1:f:326:ARG:HD3	2.55	0.41
1:T:249:GLU:OE1	1:T:249:GLU:N	2.51	0.41
1:T:314:TRP:CD1	1:4:350:ILE:HG21	2.56	0.41
1:T:317:ARG:H	1:4:376:LYS:HD3	1.85	0.41
1:U:392:ASP:OD1	1:U:393:GLN:N	2.50	0.41
1:3:326:ARG:HD3	1:i:193:TYR:CZ	2.55	0.41
1:4:326:ARG:HD3	1:f:193:TYR:CZ	2.56	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:6:235:LYS:HE2	1:6:235:LYS:HB2	1.82	0.41
1:a:193:TYR:CZ	1:b:326:ARG:HD3	2.55	0.41
1:d:311:GLY:CA	1:e:193:TYR:HA	2.50	0.41
1:e:364:ASP:OD1	1:e:367:VAL:HG12	2.20	0.41
1:g:431:ASP:O	1:g:432:TYR:HB2	2.19	0.41
1:h:364:ASP:OD1	1:h:367:VAL:HG12	2.20	0.41
1:i:177:VAL:HG22	1:i:485:VAL:HG12	2.02	0.41
1:i:317:ARG:H	1:j:376:LYS:HD3	1.85	0.41
1:k:239:ARG:HB3	1:k:239:ARG:HH21	1.81	0.41
1:l:343:TYR:HA	1:l:348:PRO:HA	2.03	0.41
1:l:431:ASP:O	1:l:432:TYR:HB2	2.20	0.41
1:o:290:VAL:HG11	1:p:105:GLN:OE1	2.19	0.41
1:o:380:ASP:CG	1:o:381:TYR:H	2.25	0.41
1:o:535:PRO:HD3	1:o:564:MET:HE3	2.02	0.41
1:p:343:TYR:HA	1:p:348:PRO:HA	2.02	0.41
1:q:249:GLU:OE1	1:q:249:GLU:N	2.51	0.41
1:r:364:ASP:OD1	1:r:367:VAL:HG12	2.20	0.41
1:z:317:ARG:H	1:7:376:LYS:HD3	1.86	0.41
1:7:392:ASP:OD1	1:7:393:GLN:N	2.50	0.41
1:A:376:LYS:HD3	1:I:317:ARG:H	1.86	0.41
1:B:193:TYR:CZ	1:L:326:ARG:HD3	2.55	0.41
1:B:235:LYS:HE2	1:B:235:LYS:HB2	1.82	0.41
1:C:105:GLN:OE1	1:M:290:VAL:HG11	2.19	0.41
1:C:364:ASP:OD1	1:C:367:VAL:HG12	2.20	0.41
1:D:317:ARG:H	1:N:376:LYS:HD3	1.85	0.41
1:D:364:ASP:OD1	1:D:367:VAL:HG12	2.20	0.41
1:D:380:ASP:OD1	1:D:381:TYR:N	2.45	0.41
1:E:406:ASN:CG	1:Q:342:HIS:HE1	2.21	0.41
1:E:431:ASP:O	1:E:432:TYR:HB2	2.19	0.41
1:F:343:TYR:HA	1:F:348:PRO:HA	2.03	0.41
1:G:235:LYS:HB2	1:G:235:LYS:HE2	1.82	0.41
1:H:326:ARG:HD3	1:W:193:TYR:CZ	2.56	0.41
1:I:392:ASP:OD1	1:I:393:GLN:N	2.50	0.41
1:K:330:PHE:HZ	1:1:474:ILE:HD12	1.85	0.41
1:M:376:LYS:HD3	1:2:317:ARG:H	1.86	0.41
1:N:477:ASP:CG	1:N:478:GLY:H	2.27	0.41
1:O:343:TYR:HA	1:O:348:PRO:HA	2.03	0.41
1:P:364:ASP:OD1	1:P:367:VAL:HG12	2.20	0.41
1:R:193:TYR:CZ	1:U:326:ARG:HD3	2.55	0.41
1:R:326:ARG:HD3	1:S:193:TYR:CZ	2.55	0.41
1:T:343:TYR:HA	1:T:348:PRO:HA	2.03	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:U:177:VAL:HG22	1:U:485:VAL:HG12	2.02	0.41
1:V:73:GLU:OE2	1:V:486:LYS:NZ	2.50	0.41
1:V:200:ILE:HA	1:V:201:PRO:HD3	1.89	0.41
1:W:39:THR:HG21	1:W:262:SER:CB	2.46	0.41
1:W:431:ASP:O	1:W:432:TYR:HB2	2.19	0.41
1:X:474:ILE:HD12	1:5:330:PHE:HZ	1.85	0.41
1:3:66:HIS:HD2	1:3:206:LYS:NZ	2.19	0.41
1:3:193:TYR:CZ	1:j:326:ARG:HD3	2.56	0.41
1:4:535:PRO:HD3	1:4:564:MET:HE3	2.02	0.41
1:a:380:ASP:OD1	1:a:381:TYR:N	2.45	0.41
1:c:314:TRP:CD1	1:d:350:ILE:HG21	2.55	0.41
1:d:290:VAL:HG11	1:e:105:GLN:OE1	2.19	0.41
1:i:314:TRP:CD1	1:j:350:ILE:HG21	2.56	0.41
1:i:343:TYR:HA	1:i:348:PRO:HA	2.03	0.41
1:j:447:ILE:HD13	1:j:447:ILE:HG21	1.84	0.41
1:k:343:TYR:HA	1:k:348:PRO:HA	2.03	0.41
1:k:474:ILE:HD12	1:m:330:PHE:HZ	1.84	0.41
1:m:364:ASP:OD1	1:m:367:VAL:HG12	2.20	0.41
1:m:431:ASP:O	1:m:432:TYR:HB2	2.19	0.41
1:n:330:PHE:HZ	1:o:474:ILE:HD12	1.84	0.41
1:o:343:TYR:HA	1:o:348:PRO:HA	2.03	0.41
1:p:66:HIS:HD2	1:p:206:LYS:NZ	2.19	0.41
1:q:188:VAL:HG23	1:s:289:SER:HA	2.01	0.41
1:q:326:ARG:HD3	1:r:193:TYR:CZ	2.55	0.41
1:q:364:ASP:OD1	1:q:367:VAL:HG12	2.20	0.41
1:q:376:LYS:HD3	1:s:317:ARG:H	1.86	0.41
1:r:317:ARG:H	1:s:376:LYS:HD3	1.86	0.41
1:t:177:VAL:HG22	1:t:485:VAL:HG12	2.02	0.41
1:w:39:THR:HG21	1:w:262:SER:CB	2.46	0.41
1:w:193:TYR:HA	1:x:311:GLY:CA	2.50	0.41
1:w:193:TYR:CZ	1:x:326:ARG:HD3	2.56	0.41
1:y:330:PHE:HZ	1:z:474:ILE:HD12	1.84	0.41
1:z:200:ILE:HA	1:z:201:PRO:HD3	1.89	0.41
1:z:330:PHE:HZ	1:7:474:ILE:HD12	1.84	0.41
1:7:177:VAL:HG22	1:7:485:VAL:HG12	2.02	0.41
1:A:39:THR:CG2	1:A:262:SER:HB3	2.46	0.41
1:E:66:HIS:HD2	1:E:206:LYS:NZ	2.19	0.41
1:E:364:ASP:OD1	1:E:367:VAL:HG12	2.20	0.41
1:F:188:VAL:HG23	1:Q:288:GLY:O	2.20	0.41
1:F:249:GLU:OE1	1:F:249:GLU:N	2.51	0.41
1:H:535:PRO:HD3	1:H:564:MET:HE3	2.02	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:39:THR:HG21	1:K:262:SER:CB	2.46	0.41
1:K:311:GLY:CA	1:1:193:TYR:HA	2.51	0.41
1:K:314:TRP:CD1	1:1:350:ILE:HG21	2.56	0.41
1:K:474:ILE:HD12	1:0:330:PHE:HZ	1.85	0.41
1:O:376:LYS:HD3	1:h:317:ARG:H	1.86	0.41
1:T:177:VAL:HG22	1:T:485:VAL:HG12	2.02	0.41
1:T:364:ASP:OD1	1:T:367:VAL:HG12	2.20	0.41
1:V:193:TYR:HA	1:X:311:GLY:CA	2.50	0.41
1:V:311:GLY:CA	1:5:193:TYR:HA	2.50	0.41
1:X:66:HIS:HD2	1:X:206:LYS:NZ	2.19	0.41
1:1:66:HIS:HD2	1:1:206:LYS:NZ	2.19	0.41
1:3:177:VAL:HG22	1:3:485:VAL:HG12	2.02	0.41
1:c:317:ARG:H	1:d:376:LYS:HD3	1.86	0.41
1:d:314:TRP:CD1	1:e:350:ILE:HG21	2.56	0.41
1:d:477:ASP:CG	1:d:478:GLY:H	2.27	0.41
1:f:66:HIS:HD2	1:f:206:LYS:NZ	2.19	0.41
1:f:177:VAL:HG22	1:f:485:VAL:HG12	2.02	0.41
1:f:200:ILE:HA	1:f:201:PRO:HD3	1.89	0.41
1:f:343:TYR:HA	1:f:348:PRO:HA	2.03	0.41
1:i:249:GLU:OE1	1:i:249:GLU:N	2.51	0.41
1:j:343:TYR:HA	1:j:348:PRO:HA	2.03	0.41
1:j:535:PRO:HD3	1:j:564:MET:HE3	2.01	0.41
1:k:350:ILE:HG21	1:m:314:TRP:CD1	2.56	0.41
1:k:376:LYS:HD3	1:m:317:ARG:H	1.86	0.41
1:n:326:ARG:HD3	1:o:193:TYR:CZ	2.55	0.41
1:o:330:PHE:HZ	1:p:474:ILE:HD12	1.85	0.41
1:s:343:TYR:HA	1:s:348:PRO:HA	2.03	0.41
1:s:364:ASP:OD1	1:s:367:VAL:HG12	2.20	0.41
1:t:392:ASP:OD1	1:t:393:GLN:N	2.50	0.41
1:t:431:ASP:O	1:t:432:TYR:HB2	2.19	0.41
1:u:317:ARG:H	1:v:376:LYS:HD3	1.85	0.41
1:u:326:ARG:HD3	1:v:193:TYR:CZ	2.55	0.41
1:v:92:LEU:HD23	1:v:92:LEU:HA	1.90	0.41
1:v:235:LYS:HE2	1:v:235:LYS:HB2	1.82	0.41
1:x:535:PRO:HD3	1:x:564:MET:HE3	2.02	0.41
1:y:193:TYR:CZ	1:7:326:ARG:HD3	2.55	0.41
1:y:326:ARG:HD3	1:z:193:TYR:CZ	2.55	0.41
1:7:200:ILE:HA	1:7:201:PRO:HD3	1.89	0.41
1:A:343:TYR:HA	1:A:348:PRO:HA	2.03	0.41
1:A:477:ASP:CG	1:A:478:GLY:H	2.27	0.41
1:C:314:TRP:CD1	1:2:350:ILE:HG21	2.56	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:350:ILE:HG21	1:P:314:TRP:CD1	2.56	0.41
1:F:188:VAL:HG23	1:Q:289:SER:HA	2.01	0.41
1:F:350:ILE:HG21	1:Q:314:TRP:CD1	2.55	0.41
1:G:200:ILE:HA	1:G:201:PRO:HD3	1.89	0.41
1:G:249:GLU:OE1	1:G:249:GLU:N	2.51	0.41
1:I:177:VAL:HG22	1:I:485:VAL:HG12	2.02	0.41
1:K:279:TYR:OH	1:1:242:ASP:OD2	2.29	0.41
1:K:326:ARG:HD3	1:1:193:TYR:CZ	2.55	0.41
1:M:177:VAL:HG22	1:M:485:VAL:HG12	2.02	0.41
1:N:314:TRP:CD1	1:P:350:ILE:HG21	2.55	0.41
1:N:317:ARG:H	1:P:376:LYS:HD3	1.86	0.41
1:O:239:ARG:HB3	1:O:239:ARG:HH21	1.82	0.41
1:O:474:ILE:HD12	1:h:330:PHE:HZ	1.84	0.41
1:P:387:ASP:HA	1:P:388:PRO:HD3	1.84	0.41
1:S:330:PHE:HZ	1:U:474:ILE:HD12	1.84	0.41
1:T:326:ARG:HD3	1:4:193:TYR:CZ	2.55	0.41
1:T:376:LYS:HD3	1:f:317:ARG:H	1.85	0.41
1:V:326:ARG:HD3	1:5:193:TYR:CZ	2.55	0.41
1:V:330:PHE:HZ	1:5:474:ILE:HD12	1.85	0.41
1:W:177:VAL:HG22	1:W:485:VAL:HG12	2.02	0.41
1:X:193:TYR:HA	1:5:311:GLY:CA	2.51	0.41
1:X:350:ILE:HG21	1:5:314:TRP:CD1	2.56	0.41
1:X:380:ASP:OD1	1:X:381:TYR:N	2.45	0.41
1:X:528:GLN:NE2	1:X:530:ASN:O	2.49	0.41
1:Y:343:TYR:HA	1:Y:348:PRO:HA	2.03	0.41
1:Z:66:HIS:HD2	1:Z:206:LYS:NZ	2.19	0.41
1:Z:343:TYR:HA	1:Z:348:PRO:HA	2.03	0.41
1:1:311:GLY:CA	1:0:193:TYR:HA	2.50	0.41
1:3:317:ARG:H	1:i:376:LYS:HD3	1.85	0.41
1:3:343:TYR:HA	1:3:348:PRO:HA	2.03	0.41
1:3:376:LYS:HD3	1:j:317:ARG:H	1.85	0.41
1:4:317:ARG:H	1:f:376:LYS:HD3	1.85	0.41
1:4:343:TYR:HA	1:4:348:PRO:HA	2.03	0.41
1:4:431:ASP:O	1:4:432:TYR:HB2	2.19	0.41
1:5:235:LYS:HE2	1:5:235:LYS:HB2	1.82	0.41
1:d:177:VAL:HG22	1:d:485:VAL:HG12	2.02	0.41
1:i:326:ARG:HD3	1:j:193:TYR:CZ	2.55	0.41
1:i:364:ASP:OD1	1:i:367:VAL:HG12	2.20	0.41
1:j:66:HIS:HD2	1:j:206:LYS:NZ	2.19	0.41
1:j:387:ASP:HA	1:j:388:PRO:HD3	1.84	0.41
1:m:477:ASP:CG	1:m:478:GLY:H	2.27	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:p:364:ASP:OD1	1:p:367:VAL:HG12	2.20	0.41
1:q:350:ILE:HG21	1:s:314:TRP:CD1	2.56	0.41
1:q:392:ASP:OD1	1:q:393:GLN:N	2.50	0.41
1:r:477:ASP:CG	1:r:478:GLY:H	2.27	0.41
1:w:177:VAL:HG22	1:w:485:VAL:HG12	2.02	0.41
1:w:350:ILE:HG21	1:x:314:TRP:CD1	2.56	0.41
1:y:177:VAL:HG22	1:y:485:VAL:HG12	2.02	0.41
1:y:343:TYR:HA	1:y:348:PRO:HA	2.03	0.41
1:B:343:TYR:HA	1:B:348:PRO:HA	2.03	0.41
1:B:350:ILE:HG21	1:L:314:TRP:CD1	2.56	0.41
1:D:314:TRP:CD1	1:N:350:ILE:HG21	2.56	0.41
1:D:392:ASP:OD1	1:D:393:GLN:N	2.50	0.41
1:E:435:THR:O	1:Q:336:TRP:HH2	2.03	0.41
1:H:314:TRP:CD1	1:W:350:ILE:HG21	2.56	0.41
1:K:193:TYR:HA	1:0:311:GLY:CA	2.50	0.41
1:K:193:TYR:CZ	1:0:326:ARG:HD3	2.55	0.41
1:M:431:ASP:O	1:M:432:TYR:HB2	2.19	0.41
1:N:453:ALA:O	1:N:472:PRO:HD2	2.21	0.41
1:R:177:VAL:HG22	1:R:485:VAL:HG12	2.02	0.41
1:R:343:TYR:HA	1:R:348:PRO:HA	2.03	0.41
1:V:177:VAL:HG22	1:V:485:VAL:HG12	2.02	0.41
1:V:343:TYR:HA	1:V:348:PRO:HA	2.03	0.41
1:W:343:TYR:HA	1:W:348:PRO:HA	2.03	0.41
1:X:193:TYR:CZ	1:5:326:ARG:HD3	2.55	0.41
1:Y:66:HIS:HD2	1:Y:206:LYS:NZ	2.19	0.41
1:1:380:ASP:OD1	1:1:381:TYR:N	2.45	0.41
1:3:330:PHE:HZ	1:i:474:ILE:HD12	1.84	0.41
1:4:66:HIS:HD2	1:4:206:LYS:NZ	2.19	0.41
1:6:279:TYR:OH	1:b:242:ASP:OD2	2.30	0.41
1:b:535:PRO:HD3	1:b:564:MET:HE3	2.02	0.41
1:c:350:ILE:HG21	1:e:314:TRP:CD1	2.56	0.41
1:d:326:ARG:HD3	1:e:193:TYR:CZ	2.55	0.41
1:d:431:ASP:O	1:d:432:TYR:HB2	2.19	0.41
1:h:249:GLU:OE1	1:h:249:GLU:N	2.51	0.41
1:h:477:ASP:CG	1:h:478:GLY:H	2.27	0.41
1:n:317:ARG:H	1:o:376:LYS:HD3	1.85	0.41
1:n:343:TYR:HA	1:n:348:PRO:HA	2.03	0.41
1:n:350:ILE:HG21	1:p:314:TRP:CD1	2.55	0.41
1:o:249:GLU:OE1	1:o:249:GLU:N	2.51	0.41
1:o:326:ARG:HD3	1:p:193:TYR:CZ	2.55	0.41
1:q:380:ASP:OD1	1:q:381:TYR:N	2.45	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:r:314:TRP:CD1	1:s:350:ILE:HG21	2.55	0.41
1:r:453:ALA:O	1:r:472:PRO:HD2	2.21	0.41
1:u:343:TYR:HA	1:u:348:PRO:HA	2.03	0.41
1:w:343:TYR:HA	1:w:348:PRO:HA	2.03	0.41
1:y:364:ASP:OD1	1:y:367:VAL:HG12	2.20	0.41
1:z:66:HIS:HD2	1:z:206:LYS:NZ	2.19	0.41
1:0:177:VAL:HG22	1:0:485:VAL:HG12	2.02	0.41
1:0:387:ASP:HA	1:0:388:PRO:HD3	1.84	0.41
1:B:311:GLY:CA	1:J:193:TYR:HA	2.50	0.41
1:B:314:TRP:CD1	1:J:350:ILE:HG21	2.55	0.41
1:B:317:ARG:H	1:J:376:LYS:HD3	1.86	0.41
1:G:535:PRO:HD3	1:G:564:MET:HE3	2.01	0.41
1:L:535:PRO:HD3	1:L:564:MET:HE3	2.02	0.41
1:O:453:ALA:O	1:O:472:PRO:HD2	2.21	0.41
1:P:177:VAL:HG22	1:P:485:VAL:HG12	2.02	0.41
1:Q:343:TYR:HA	1:Q:348:PRO:HA	2.03	0.41
1:S:66:HIS:HD2	1:S:206:LYS:NZ	2.19	0.41
1:V:535:PRO:HD3	1:V:564:MET:HE3	2.02	0.41
1:W:200:ILE:HA	1:W:201:PRO:HD3	1.89	0.41
1:W:326:ARG:HD3	1:Y:193:TYR:CZ	2.56	0.41
1:X:242:ASP:OD2	1:5:279:TYR:OH	2.29	0.41
1:2:66:HIS:HD2	1:2:206:LYS:NZ	2.19	0.41
1:5:39:THR:HG21	1:5:262:SER:CB	2.46	0.41
1:6:66:HIS:HD2	1:6:206:LYS:NZ	2.19	0.41
1:a:343:TYR:HA	1:a:348:PRO:HA	2.03	0.41
1:a:350:ILE:HG21	1:b:314:TRP:CD1	2.56	0.41
1:c:177:VAL:HG22	1:c:485:VAL:HG12	2.02	0.41
1:i:380:ASP:CG	1:i:381:TYR:H	2.25	0.41
1:j:177:VAL:HG22	1:j:485:VAL:HG12	2.02	0.41
1:j:431:ASP:O	1:j:432:TYR:HB2	2.19	0.41
1:k:242:ASP:OD2	1:m:279:TYR:OH	2.30	0.41
1:k:311:GLY:CA	1:l:193:TYR:HA	2.50	0.41
1:k:453:ALA:O	1:k:472:PRO:HD2	2.21	0.41
1:l:326:ARG:HD3	1:m:193:TYR:CZ	2.56	0.41
1:l:364:ASP:OD1	1:l:367:VAL:HG12	2.20	0.41
1:l:392:ASP:OD1	1:l:393:GLN:N	2.50	0.41
1:q:314:TRP:CD1	1:r:350:ILE:HG21	2.56	0.41
1:s:66:HIS:HD2	1:s:206:LYS:NZ	2.19	0.41
1:t:350:ILE:HG21	1:v:314:TRP:CD1	2.56	0.41
1:v:535:PRO:HD3	1:v:564:MET:HE3	2.02	0.41
1:y:453:ALA:O	1:y:472:PRO:HD2	2.21	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:249:GLU:OE1	1:A:249:GLU:N	2.51	0.41
1:A:535:PRO:HD3	1:A:564:MET:HE3	2.02	0.41
1:B:535:PRO:HD3	1:B:564:MET:HE3	2.02	0.41
1:C:66:HIS:HD2	1:C:206:LYS:NZ	2.19	0.41
1:C:193:TYR:CZ	1:M:326:ARG:HD3	2.55	0.41
1:C:317:ARG:H	1:2:376:LYS:HD3	1.85	0.41
1:C:453:ALA:O	1:C:472:PRO:HD2	2.21	0.41
1:D:431:ASP:O	1:D:432:TYR:HB2	2.19	0.41
1:E:311:GLY:CA	1:Q:193:TYR:HA	2.51	0.41
1:G:314:TRP:CD1	1:I:350:ILE:HG21	2.56	0.41
1:G:343:TYR:HA	1:G:348:PRO:HA	2.03	0.41
1:G:364:ASP:OD1	1:G:367:VAL:HG12	2.20	0.41
1:H:343:TYR:HA	1:H:348:PRO:HA	2.03	0.41
1:I:66:HIS:HD2	1:I:206:LYS:NZ	2.19	0.41
1:J:66:HIS:HD2	1:J:206:LYS:NZ	2.19	0.41
1:J:235:LYS:HE2	1:J:235:LYS:HB2	1.82	0.41
1:J:314:TRP:CD1	1:L:350:ILE:HG21	2.56	0.41
1:J:535:PRO:HD3	1:J:564:MET:HE3	2.02	0.41
1:M:66:HIS:HD2	1:M:206:LYS:NZ	2.19	0.41
1:M:535:PRO:HD3	1:M:564:MET:HE3	2.02	0.41
1:N:177:VAL:HG22	1:N:485:VAL:HG12	2.02	0.41
1:O:193:TYR:CZ	1:h:326:ARG:HD3	2.56	0.41
1:O:311:GLY:CA	1:g:193:TYR:HA	2.50	0.41
1:P:66:HIS:HD2	1:P:206:LYS:NZ	2.19	0.41
1:P:249:GLU:OE1	1:P:249:GLU:N	2.51	0.41
1:Q:477:ASP:CG	1:Q:478:GLY:H	2.27	0.41
1:R:364:ASP:OD1	1:R:367:VAL:HG12	2.20	0.41
1:R:453:ALA:O	1:R:472:PRO:HD2	2.21	0.41
1:S:364:ASP:OD1	1:S:367:VAL:HG12	2.20	0.41
1:S:453:ALA:O	1:S:472:PRO:HD2	2.21	0.41
1:T:474:ILE:HD12	1:f:330:PHE:HZ	1.84	0.41
1:U:200:ILE:HA	1:U:201:PRO:HD3	1.89	0.41
1:V:364:ASP:OD1	1:V:367:VAL:HG12	2.20	0.41
1:V:376:LYS:HD3	1:X:317:ARG:H	1.86	0.41
1:Z:193:TYR:CZ	1:w:326:ARG:HD3	2.56	0.41
1:Z:326:ARG:HD3	1:x:193:TYR:CZ	2.56	0.41
1:1:317:ARG:H	1:0:376:LYS:HD3	1.86	0.41
1:1:528:GLN:NE2	1:1:530:ASN:O	2.49	0.41
1:2:177:VAL:HG22	1:2:485:VAL:HG12	2.02	0.41
1:2:351:ASN:HA	1:2:352:PRO:HD3	1.93	0.41
1:2:453:ALA:O	1:2:472:PRO:HD2	2.21	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:3:314:TRP:CD1	1:i:350:ILE:HG21	2.56	0.41
1:3:453:ALA:O	1:3:472:PRO:HD2	2.21	0.41
1:4:177:VAL:HG22	1:4:485:VAL:HG12	2.02	0.41
1:4:364:ASP:OD1	1:4:367:VAL:HG12	2.20	0.41
1:4:447:ILE:HD13	1:4:447:ILE:HG21	1.84	0.41
1:6:193:TYR:HA	1:a:311:GLY:CA	2.50	0.41
1:6:193:TYR:CZ	1:a:326:ARG:HD3	2.55	0.41
1:6:350:ILE:HG21	1:a:314:TRP:CD1	2.55	0.41
1:6:376:LYS:HD3	1:a:317:ARG:H	1.86	0.41
1:c:66:HIS:HD2	1:c:206:LYS:NZ	2.19	0.41
1:c:376:LYS:HD3	1:e:317:ARG:H	1.85	0.41
1:c:453:ALA:O	1:c:472:PRO:HD2	2.21	0.41
1:d:66:HIS:HD2	1:d:206:LYS:NZ	2.19	0.41
1:d:535:PRO:HD3	1:d:564:MET:HE3	2.02	0.41
1:e:66:HIS:HD2	1:e:206:LYS:NZ	2.19	0.41
1:e:453:ALA:O	1:e:472:PRO:HD2	2.21	0.41
1:f:453:ALA:O	1:f:472:PRO:HD2	2.21	0.41
1:g:326:ARG:HD3	1:h:193:TYR:CZ	2.56	0.41
1:g:364:ASP:OD1	1:g:367:VAL:HG12	2.20	0.41
1:g:392:ASP:OD1	1:g:393:GLN:N	2.50	0.41
1:g:453:ALA:O	1:g:472:PRO:HD2	2.21	0.41
1:h:66:HIS:HD2	1:h:206:LYS:NZ	2.19	0.41
1:h:235:LYS:HE2	1:h:235:LYS:HB2	1.82	0.41
1:j:364:ASP:OD1	1:j:367:VAL:HG12	2.20	0.41
1:k:66:HIS:HD2	1:k:206:LYS:NZ	2.19	0.41
1:k:193:TYR:CZ	1:m:326:ARG:HD3	2.56	0.41
1:l:453:ALA:O	1:l:472:PRO:HD2	2.21	0.41
1:m:66:HIS:HD2	1:m:206:LYS:NZ	2.19	0.41
1:m:249:GLU:OE1	1:m:249:GLU:N	2.51	0.41
1:n:477:ASP:CG	1:n:478:GLY:H	2.27	0.41
1:o:177:VAL:HG22	1:o:485:VAL:HG12	2.02	0.41
1:o:317:ARG:H	1:p:376:LYS:HD3	1.86	0.41
1:r:177:VAL:HG22	1:r:485:VAL:HG12	2.02	0.41
1:s:177:VAL:HG22	1:s:485:VAL:HG12	2.02	0.41
1:t:66:HIS:HD2	1:t:206:LYS:NZ	2.19	0.41
1:t:326:ARG:HD3	1:u:193:TYR:CZ	2.55	0.41
1:u:477:ASP:CG	1:u:478:GLY:H	2.27	0.41
1:v:200:ILE:HA	1:v:201:PRO:HD3	1.89	0.41
1:v:287:THR:CG2	1:v:569:MET:HG2	2.46	0.41
1:v:343:TYR:HA	1:v:348:PRO:HA	2.03	0.41
1:v:364:ASP:OD1	1:v:367:VAL:HG12	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:x:343:TYR:HA	1:x:348:PRO:HA	2.03	0.41
1:y:66:HIS:HD2	1:y:206:LYS:NZ	2.19	0.41
1:y:314:TRP:CD1	1:z:350:ILE:HG21	2.56	0.41
1:z:364:ASP:OD1	1:z:367:VAL:HG12	2.20	0.41
1:z:453:ALA:O	1:z:472:PRO:HD2	2.21	0.41
1:7:66:HIS:HD2	1:7:206:LYS:NZ	2.19	0.41
1:0:200:ILE:HA	1:0:201:PRO:HD3	1.89	0.41
1:0:343:TYR:HA	1:0:348:PRO:HA	2.03	0.41
1:0:431:ASP:O	1:0:432:TYR:HB2	2.19	0.41
1:0:535:PRO:HD3	1:0:564:MET:HE3	2.02	0.41
1:B:326:ARG:HD3	1:J:193:TYR:CZ	2.55	0.41
1:D:535:PRO:HD3	1:D:564:MET:HE3	2.02	0.41
1:E:257:LEU:HD22	1:E:261:ASP:HB3	2.04	0.41
1:F:122:MET:O	1:F:449:TYR:OH	2.31	0.41
1:F:177:VAL:HG22	1:F:485:VAL:HG12	2.02	0.41
1:H:193:TYR:CZ	1:Y:326:ARG:HD3	2.56	0.41
1:I:73:GLU:OE2	1:I:486:LYS:NZ	2.50	0.41
1:K:350:ILE:HG21	1:0:314:TRP:CD1	2.56	0.41
1:L:73:GLU:OE2	1:L:486:LYS:NZ	2.50	0.41
1:M:193:TYR:CZ	1:2:326:ARG:HD3	2.55	0.41
1:O:66:HIS:HD2	1:O:206:LYS:NZ	2.19	0.41
1:T:350:ILE:HG21	1:f:314:TRP:CD1	2.56	0.41
1:T:380:ASP:CG	1:T:381:TYR:H	2.25	0.41
1:U:66:HIS:HD2	1:U:206:LYS:NZ	2.19	0.41
1:U:343:TYR:HA	1:U:348:PRO:HA	2.02	0.41
1:V:257:LEU:HD22	1:V:261:ASP:HB3	2.03	0.41
1:X:453:ALA:O	1:X:472:PRO:HD2	2.21	0.41
1:1:453:ALA:O	1:1:472:PRO:HD2	2.21	0.41
1:4:453:ALA:O	1:4:472:PRO:HD2	2.21	0.41
1:6:535:PRO:HD3	1:6:564:MET:HE3	2.02	0.41
1:a:535:PRO:HD3	1:a:564:MET:HE3	2.02	0.41
1:g:66:HIS:HD2	1:g:206:LYS:NZ	2.19	0.41
1:h:142:LEU:HD13	1:h:517:LEU:HB3	2.03	0.41
1:j:257:LEU:HD22	1:j:261:ASP:HB3	2.03	0.41
1:k:447:ILE:HD13	1:k:447:ILE:HG21	1.84	0.41
1:l:66:HIS:HD2	1:l:206:LYS:NZ	2.19	0.41
1:n:311:GLY:CA	1:o:193:TYR:HA	2.51	0.41
1:o:122:MET:O	1:o:449:TYR:OH	2.31	0.41
1:o:453:ALA:O	1:o:472:PRO:HD2	2.21	0.41
1:p:75:TYR:OH	1:p:249:GLU:OE1	2.27	0.41
1:p:257:LEU:HD22	1:p:261:ASP:HB3	2.03	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:q:431:ASP:O	1:q:432:TYR:HB2	2.19	0.41
1:q:535:PRO:HD3	1:q:564:MET:HE3	2.02	0.41
1:s:249:GLU:OE1	1:s:249:GLU:N	2.51	0.41
1:u:535:PRO:HD3	1:u:564:MET:HE3	2.02	0.41
1:w:200:ILE:HA	1:w:201:PRO:HD3	1.89	0.41
1:0:364:ASP:OD1	1:0:367:VAL:HG12	2.20	0.41
1:A:290:VAL:HG11	1:G:105:GLN:OE1	2.21	0.40
1:D:257:LEU:HD22	1:D:261:ASP:HB3	2.04	0.40
1:E:317:ARG:H	1:Q:376:LYS:HD3	1.85	0.40
1:F:453:ALA:O	1:F:472:PRO:HD2	2.21	0.40
1:G:142:LEU:HD13	1:G:517:LEU:HB3	2.04	0.40
1:G:287:THR:CG2	1:G:569:MET:HG2	2.46	0.40
1:H:453:ALA:O	1:H:472:PRO:HD2	2.21	0.40
1:J:453:ALA:O	1:J:472:PRO:HD2	2.21	0.40
1:K:376:LYS:HD3	1:0:317:ARG:H	1.86	0.40
1:Q:453:ALA:O	1:Q:472:PRO:HD2	2.21	0.40
1:R:66:HIS:HD2	1:R:206:LYS:NZ	2.19	0.40
1:S:257:LEU:HD11	1:S:263:TRP:HB2	2.04	0.40
1:S:326:ARG:HD3	1:U:193:TYR:CZ	2.55	0.40
1:S:477:ASP:CG	1:S:478:GLY:H	2.27	0.40
1:V:92:LEU:HD23	1:V:92:LEU:HA	1.90	0.40
1:V:142:LEU:HD13	1:V:517:LEU:HB3	2.04	0.40
1:V:314:TRP:CD1	1:5:350:ILE:HG21	2.56	0.40
1:V:317:ARG:H	1:5:376:LYS:HD3	1.86	0.40
1:2:73:GLU:OE2	1:2:486:LYS:NZ	2.51	0.40
1:3:350:ILE:HG21	1:j:314:TRP:CD1	2.56	0.40
1:4:257:LEU:HD22	1:4:261:ASP:HB3	2.04	0.40
1:4:314:TRP:CD1	1:f:350:ILE:HG21	2.56	0.40
1:5:453:ALA:O	1:5:472:PRO:HD2	2.21	0.40
1:6:311:GLY:CA	1:b:193:TYR:HA	2.50	0.40
1:6:314:TRP:CD1	1:b:350:ILE:HG21	2.56	0.40
1:6:453:ALA:O	1:6:472:PRO:HD2	2.21	0.40
1:c:326:ARG:HD3	1:d:193:TYR:CZ	2.55	0.40
1:e:257:LEU:HD22	1:e:261:ASP:HB3	2.03	0.40
1:j:453:ALA:O	1:j:472:PRO:HD2	2.21	0.40
1:m:142:LEU:HD13	1:m:517:LEU:HB3	2.03	0.40
1:n:351:ASN:HA	1:n:352:PRO:HD3	1.93	0.40
1:n:453:ALA:O	1:n:472:PRO:HD2	2.21	0.40
1:q:257:LEU:HD22	1:q:261:ASP:HB3	2.04	0.40
1:r:66:HIS:HD2	1:r:206:LYS:NZ	2.19	0.40
1:t:453:ALA:O	1:t:472:PRO:HD2	2.21	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:u:249:GLU:OE1	1:u:249:GLU:N	2.51	0.40
1:u:314:TRP:CD1	1:v:350:ILE:HG21	2.56	0.40
1:v:142:LEU:HD13	1:v:517:LEU:HB3	2.04	0.40
1:y:193:TYR:HA	1:7:311:GLY:CA	2.50	0.40
1:y:350:ILE:HG21	1:7:314:TRP:CD1	2.55	0.40
1:z:257:LEU:HD11	1:z:263:TRP:HB2	2.04	0.40
1:z:326:ARG:HD3	1:7:193:TYR:CZ	2.55	0.40
1:0:142:LEU:HD13	1:0:517:LEU:HB3	2.04	0.40
1:0:392:ASP:OD1	1:0:393:GLN:N	2.50	0.40
1:B:453:ALA:O	1:B:472:PRO:HD2	2.21	0.40
1:C:343:TYR:HA	1:C:348:PRO:HA	2.03	0.40
1:E:257:LEU:HD11	1:E:263:TRP:HB2	2.04	0.40
1:F:66:HIS:HD2	1:F:206:LYS:NZ	2.19	0.40
1:G:326:ARG:HD3	1:I:193:TYR:CZ	2.56	0.40
1:I:257:LEU:HD22	1:I:261:ASP:HB3	2.03	0.40
1:I:453:ALA:O	1:I:472:PRO:HD2	2.21	0.40
1:J:311:GLY:CA	1:L:193:TYR:HA	2.50	0.40
1:K:235:LYS:HB2	1:K:235:LYS:HE2	1.82	0.40
1:K:351:ASN:HA	1:K:352:PRO:HD3	1.93	0.40
1:N:66:HIS:HD2	1:N:206:LYS:NZ	2.19	0.40
1:O:149:ILE:O	1:O:259:THR:HG23	2.22	0.40
1:O:193:TYR:HA	1:h:311:GLY:CA	2.50	0.40
1:O:314:TRP:CD1	1:g:350:ILE:HG21	2.56	0.40
1:O:326:ARG:HD3	1:g:193:TYR:CZ	2.56	0.40
1:P:535:PRO:HD3	1:P:564:MET:HE3	2.02	0.40
1:Q:351:ASN:HA	1:Q:352:PRO:HD3	1.93	0.40
1:R:193:TYR:HA	1:U:311:GLY:CA	2.50	0.40
1:R:257:LEU:HD22	1:R:261:ASP:HB3	2.03	0.40
1:R:314:TRP:CD1	1:S:350:ILE:HG21	2.56	0.40
1:T:200:ILE:HA	1:T:201:PRO:HD3	1.89	0.40
1:V:350:ILE:HG21	1:X:314:TRP:CD1	2.55	0.40
1:V:431:ASP:O	1:V:432:TYR:HB2	2.19	0.40
1:V:447:ILE:HG21	1:V:447:ILE:HD13	1.84	0.40
1:W:314:TRP:CD1	1:Y:350:ILE:HG21	2.56	0.40
1:Z:350:ILE:HG21	1:w:314:TRP:CD1	2.56	0.40
1:1:314:TRP:CD1	1:0:350:ILE:HG21	2.55	0.40
1:5:351:ASN:HA	1:5:352:PRO:HD3	1.93	0.40
1:5:477:ASP:CG	1:5:478:GLY:H	2.27	0.40
1:a:142:LEU:HD13	1:a:517:LEU:HB3	2.04	0.40
1:a:453:ALA:O	1:a:472:PRO:HD2	2.21	0.40
1:b:73:GLU:OE2	1:b:486:LYS:NZ	2.50	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:c:142:LEU:HD13	1:c:517:LEU:HB3	2.04	0.40
1:c:193:TYR:HA	1:e:311:GLY:CA	2.51	0.40
1:c:447:ILE:HD13	1:c:447:ILE:HG21	1.84	0.40
1:e:343:TYR:HA	1:e:348:PRO:HA	2.03	0.40
1:h:257:LEU:HD11	1:h:263:TRP:HB2	2.04	0.40
1:j:477:ASP:CG	1:j:478:GLY:H	2.27	0.40
1:k:116:ASN:OD1	1:k:454:ILE:N	2.53	0.40
1:m:257:LEU:HD11	1:m:263:TRP:HB2	2.04	0.40
1:p:257:LEU:HD11	1:p:263:TRP:HB2	2.04	0.40
1:s:387:ASP:HA	1:s:388:PRO:HD3	1.84	0.40
1:v:380:ASP:OD1	1:v:381:TYR:N	2.45	0.40
1:w:364:ASP:OD1	1:w:367:VAL:HG12	2.20	0.40
1:x:453:ALA:O	1:x:472:PRO:HD2	2.21	0.40
1:y:142:LEU:HD13	1:y:517:LEU:HB3	2.03	0.40
1:y:257:LEU:HD22	1:y:261:ASP:HB3	2.03	0.40
1:7:447:ILE:HG21	1:7:447:ILE:HD13	1.84	0.40
1:0:66:HIS:HD2	1:0:206:LYS:NZ	2.19	0.40
1:0:257:LEU:HD22	1:0:261:ASP:HB3	2.04	0.40
1:C:257:LEU:HD22	1:C:261:ASP:HB3	2.04	0.40
1:C:311:GLY:CA	1:2:193:TYR:HA	2.51	0.40
1:E:314:TRP:CD1	1:Q:350:ILE:HG21	2.56	0.40
1:H:142:LEU:HD13	1:H:517:LEU:HB3	2.04	0.40
1:J:317:ARG:H	1:L:376:LYS:HD3	1.85	0.40
1:J:343:TYR:HA	1:J:348:PRO:HA	2.03	0.40
1:K:242:ASP:OD2	1:0:279:TYR:OH	2.30	0.40
1:K:257:LEU:HD11	1:K:263:TRP:HB2	2.04	0.40
1:K:453:ALA:O	1:K:472:PRO:HD2	2.21	0.40
1:K:477:ASP:CG	1:K:478:GLY:H	2.27	0.40
1:L:177:VAL:HG22	1:L:485:VAL:HG12	2.02	0.40
1:M:142:LEU:HD13	1:M:517:LEU:HB3	2.04	0.40
1:N:257:LEU:HD22	1:N:261:ASP:HB3	2.03	0.40
1:N:257:LEU:HD11	1:N:263:TRP:HB2	2.04	0.40
1:Q:66:HIS:HD2	1:Q:206:LYS:NZ	2.19	0.40
1:Q:149:ILE:O	1:Q:259:THR:HG23	2.22	0.40
1:S:311:GLY:CA	1:U:193:TYR:HA	2.51	0.40
1:T:128:GLN:O	1:T:132:THR:HG23	2.22	0.40
1:U:142:LEU:HD13	1:U:517:LEU:HB3	2.04	0.40
1:V:66:HIS:HD2	1:V:206:LYS:NZ	2.19	0.40
1:W:364:ASP:OD1	1:W:367:VAL:HG12	2.20	0.40
1:X:343:TYR:HA	1:X:348:PRO:HA	2.03	0.40
1:Y:257:LEU:HD11	1:Y:263:TRP:HB2	2.04	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Z:257:LEU:HD11	1:Z:263:TRP:HB2	2.04	0.40
1:1:343:TYR:HA	1:1:348:PRO:HA	2.03	0.40
1:2:142:LEU:HD13	1:2:517:LEU:HB3	2.04	0.40
1:5:257:LEU:HD11	1:5:263:TRP:HB2	2.04	0.40
1:6:317:ARG:H	1:b:376:LYS:HD3	1.85	0.40
1:b:177:VAL:HG22	1:b:485:VAL:HG12	2.02	0.40
1:c:351:ASN:HA	1:c:352:PRO:HD3	1.93	0.40
1:d:142:LEU:HD13	1:d:517:LEU:HB3	2.04	0.40
1:i:128:GLN:O	1:i:132:THR:HG23	2.22	0.40
1:i:453:ALA:O	1:i:472:PRO:HD2	2.21	0.40
1:k:149:ILE:O	1:k:259:THR:HG23	2.22	0.40
1:k:314:TRP:CD1	1:l:350:ILE:HG21	2.56	0.40
1:k:326:ARG:HD3	1:l:193:TYR:CZ	2.56	0.40
1:l:257:LEU:HD11	1:l:263:TRP:HB2	2.04	0.40
1:m:392:ASP:OD1	1:m:393:GLN:N	2.50	0.40
1:n:66:HIS:HD2	1:n:206:LYS:NZ	2.19	0.40
1:n:149:ILE:O	1:n:259:THR:HG23	2.22	0.40
1:n:314:TRP:CD1	1:o:350:ILE:HG21	2.56	0.40
1:n:376:LYS:HD3	1:p:317:ARG:H	1.85	0.40
1:o:66:HIS:HD2	1:o:206:LYS:NZ	2.19	0.40
1:o:314:TRP:CD1	1:p:350:ILE:HG21	2.56	0.40
1:r:73:GLU:OE2	1:r:486:LYS:NZ	2.50	0.40
1:r:257:LEU:HD11	1:r:263:TRP:HB2	2.04	0.40
1:t:73:GLU:OE2	1:t:486:LYS:NZ	2.50	0.40
1:t:193:TYR:CZ	1:v:326:ARG:HD3	2.56	0.40
1:t:257:LEU:HD22	1:t:261:ASP:HB3	2.03	0.40
1:v:453:ALA:O	1:v:472:PRO:HD2	2.21	0.40
1:w:66:HIS:HD2	1:w:206:LYS:NZ	2.19	0.40
1:w:453:ALA:O	1:w:472:PRO:HD2	2.21	0.40
1:x:142:LEU:HD13	1:x:517:LEU:HB3	2.04	0.40
1:y:279:TYR:OH	1:z:242:ASP:OD2	2.29	0.40
1:z:177:VAL:HG22	1:z:485:VAL:HG12	2.02	0.40
1:7:142:LEU:HD13	1:7:517:LEU:HB3	2.04	0.40
1:7:343:TYR:HA	1:7:348:PRO:HA	2.03	0.40
1:A:350:ILE:HG21	1:I:314:TRP:CD1	2.55	0.40
1:B:142:LEU:HD13	1:B:517:LEU:HB3	2.04	0.40
1:B:376:LYS:HD3	1:L:317:ARG:H	1.85	0.40
1:E:350:ILE:HG21	1:F:314:TRP:CD1	2.56	0.40
1:F:149:ILE:O	1:F:259:THR:HG23	2.22	0.40
1:G:66:HIS:HD2	1:G:206:LYS:NZ	2.19	0.40
1:G:149:ILE:O	1:G:259:THR:HG23	2.22	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:453:ALA:O	1:G:472:PRO:HD2	2.21	0.40
1:K:257:LEU:HD22	1:K:261:ASP:HB3	2.04	0.40
1:O:116:ASN:OD1	1:O:454:ILE:N	2.53	0.40
1:P:142:LEU:HD13	1:P:517:LEU:HB3	2.04	0.40
1:R:350:ILE:HG21	1:U:314:TRP:CD1	2.56	0.40
1:S:149:ILE:O	1:S:259:THR:HG23	2.22	0.40
1:S:249:GLU:OE1	1:S:249:GLU:N	2.51	0.40
1:T:453:ALA:O	1:T:472:PRO:HD2	2.21	0.40
1:V:392:ASP:OD1	1:V:393:GLN:N	2.50	0.40
1:V:453:ALA:O	1:V:472:PRO:HD2	2.21	0.40
1:W:66:HIS:HD2	1:W:206:LYS:NZ	2.19	0.40
1:W:149:ILE:O	1:W:259:THR:HG23	2.22	0.40
1:W:453:ALA:O	1:W:472:PRO:HD2	2.21	0.40
1:X:142:LEU:HD13	1:X:517:LEU:HB3	2.04	0.40
1:1:142:LEU:HD13	1:1:517:LEU:HB3	2.04	0.40
1:2:39:THR:HG21	1:2:262:SER:CB	2.46	0.40
1:4:477:ASP:CG	1:4:478:GLY:H	2.27	0.40
1:5:257:LEU:HD22	1:5:261:ASP:HB3	2.04	0.40
1:b:257:LEU:HD22	1:b:261:ASP:HB3	2.03	0.40
1:b:343:TYR:HA	1:b:348:PRO:HA	2.03	0.40
1:c:73:GLU:OE2	1:c:486:LYS:NZ	2.51	0.40
1:c:193:TYR:CZ	1:e:326:ARG:HD3	2.55	0.40
1:d:317:ARG:H	1:e:376:LYS:HD3	1.85	0.40
1:g:257:LEU:HD11	1:g:263:TRP:HB2	2.04	0.40
1:i:116:ASN:OD1	1:i:454:ILE:N	2.53	0.40
1:i:392:ASP:OD1	1:i:393:GLN:N	2.50	0.40
1:k:193:TYR:HA	1:m:311:GLY:CA	2.50	0.40
1:n:116:ASN:OD1	1:n:454:ILE:N	2.53	0.40
1:o:149:ILE:O	1:o:259:THR:HG23	2.22	0.40
1:p:453:ALA:O	1:p:472:PRO:HD2	2.21	0.40
1:r:257:LEU:HD22	1:r:261:ASP:HB3	2.04	0.40
1:s:142:LEU:HD13	1:s:517:LEU:HB3	2.04	0.40
1:s:149:ILE:O	1:s:259:THR:HG23	2.22	0.40
1:s:535:PRO:HD3	1:s:564:MET:HE3	2.02	0.40
1:t:128:GLN:O	1:t:132:THR:HG23	2.22	0.40
1:u:142:LEU:HD13	1:u:517:LEU:HB3	2.04	0.40
1:v:116:ASN:OD1	1:v:454:ILE:N	2.53	0.40
1:v:149:ILE:O	1:v:259:THR:HG23	2.22	0.40
1:z:149:ILE:O	1:z:259:THR:HG23	2.22	0.40
1:z:249:GLU:OE1	1:z:249:GLU:N	2.51	0.40
1:z:311:GLY:CA	1:7:193:TYR:HA	2.50	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:z:477:ASP:CG	1:z:478:GLY:H	2.27	0.40
1:7:149:ILE:O	1:7:259:THR:HG23	2.22	0.40
1:0:447:ILE:HG21	1:0:447:ILE:HD13	1.84	0.40
1:A:142:LEU:HD13	1:A:517:LEU:HB3	2.04	0.40
1:A:314:TRP:CD1	1:G:350:ILE:HG21	2.56	0.40
1:B:313:GLN:CB	1:B:317:ARG:HB2	2.52	0.40
1:C:326:ARG:HD3	1:2:193:TYR:CZ	2.55	0.40
1:C:376:LYS:HD3	1:M:317:ARG:H	1.85	0.40
1:C:477:ASP:CG	1:C:478:GLY:H	2.27	0.40
1:D:343:TYR:HA	1:D:348:PRO:HA	2.03	0.40
1:E:128:GLN:O	1:E:132:THR:HG23	2.22	0.40
1:E:313:GLN:CB	1:E:317:ARG:HB2	2.52	0.40
1:I:128:GLN:O	1:I:132:THR:HG23	2.22	0.40
1:K:343:TYR:HA	1:K:348:PRO:HA	2.03	0.40
1:L:149:ILE:O	1:L:259:THR:HG23	2.22	0.40
1:L:257:LEU:HD22	1:L:261:ASP:HB3	2.04	0.40
1:L:343:TYR:HA	1:L:348:PRO:HA	2.03	0.40
1:L:453:ALA:O	1:L:472:PRO:HD2	2.21	0.40
1:M:453:ALA:O	1:M:472:PRO:HD2	2.21	0.40
1:N:249:GLU:OE1	1:N:249:GLU:N	2.51	0.40
1:N:313:GLN:CB	1:N:317:ARG:HB2	2.52	0.40
1:O:257:LEU:HD11	1:O:263:TRP:HB2	2.04	0.40
1:P:149:ILE:O	1:P:259:THR:HG23	2.22	0.40
1:Q:116:ASN:OD1	1:Q:454:ILE:N	2.53	0.40
1:R:235:LYS:HB2	1:R:235:LYS:HE2	1.82	0.40
1:R:257:LEU:HD11	1:R:263:TRP:HB2	2.04	0.40
1:S:177:VAL:HG22	1:S:485:VAL:HG12	2.02	0.40
1:U:149:ILE:O	1:U:259:THR:HG23	2.22	0.40
1:Y:142:LEU:HD13	1:Y:517:LEU:HB3	2.04	0.40
1:Y:351:ASN:HA	1:Y:352:PRO:HD3	1.93	0.40
1:Y:453:ALA:O	1:Y:472:PRO:HD2	2.21	0.40
1:2:257:LEU:HD11	1:2:263:TRP:HB2	2.04	0.40
1:3:128:GLN:O	1:3:132:THR:HG23	2.22	0.40
1:3:142:LEU:HD13	1:3:517:LEU:HB3	2.04	0.40
1:3:149:ILE:O	1:3:259:THR:HG23	2.22	0.40
1:6:343:TYR:HA	1:6:348:PRO:HA	2.03	0.40
1:a:177:VAL:HG22	1:a:485:VAL:HG12	2.02	0.40
1:b:149:ILE:O	1:b:259:THR:HG23	2.22	0.40
1:b:453:ALA:O	1:b:472:PRO:HD2	2.21	0.40
1:c:257:LEU:HD11	1:c:263:TRP:HB2	2.04	0.40
1:d:453:ALA:O	1:d:472:PRO:HD2	2.21	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:e:477:ASP:CG	1:e:478:GLY:H	2.27	0.40
1:f:128:GLN:O	1:f:132:THR:HG23	2.22	0.40
1:f:142:LEU:HD13	1:f:517:LEU:HB3	2.04	0.40
1:g:128:GLN:O	1:g:132:THR:HG23	2.22	0.40
1:h:392:ASP:OD1	1:h:393:GLN:N	2.50	0.40
1:i:200:ILE:HA	1:i:201:PRO:HD3	1.89	0.40
1:i:447:ILE:HG21	1:i:447:ILE:HD13	1.84	0.40
1:l:128:GLN:O	1:l:132:THR:HG23	2.22	0.40
1:m:122:MET:O	1:m:449:TYR:OH	2.31	0.40
1:m:235:LYS:HE2	1:m:235:LYS:HB2	1.82	0.40
1:p:128:GLN:O	1:p:132:THR:HG23	2.22	0.40
1:p:313:GLN:CB	1:p:317:ARG:HB2	2.52	0.40
1:r:249:GLU:OE1	1:r:249:GLU:N	2.51	0.40
1:u:66:HIS:HD2	1:u:206:LYS:NZ	2.19	0.40
1:u:128:GLN:O	1:u:132:THR:HG23	2.22	0.40
1:v:66:HIS:HD2	1:v:206:LYS:NZ	2.19	0.40
1:w:149:ILE:O	1:w:259:THR:HG23	2.22	0.40
1:x:257:LEU:HD11	1:x:263:TRP:HB2	2.04	0.40
1:y:257:LEU:HD11	1:y:263:TRP:HB2	2.04	0.40
1:y:447:ILE:HG21	1:y:447:ILE:HD13	1.84	0.40
1:y:477:ASP:CG	1:y:478:GLY:H	2.27	0.40
1:0:92:LEU:HD23	1:0:92:LEU:HA	1.90	0.40
1:0:453:ALA:O	1:0:472:PRO:HD2	2.21	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	0	535/537 (100%)	513 (96%)	21 (4%)	1 (0%)	43	62
1	1	535/537 (100%)	513 (96%)	21 (4%)	1 (0%)	43	62

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	2	535/537 (100%)	513 (96%)	21 (4%)	1 (0%)	43	62
1	3	535/537 (100%)	513 (96%)	21 (4%)	1 (0%)	43	62
1	4	535/537 (100%)	513 (96%)	21 (4%)	1 (0%)	43	62
1	5	535/537 (100%)	513 (96%)	21 (4%)	1 (0%)	43	62
1	6	535/537 (100%)	513 (96%)	21 (4%)	1 (0%)	43	62
1	7	535/537 (100%)	513 (96%)	21 (4%)	1 (0%)	43	62
1	A	535/537 (100%)	513 (96%)	21 (4%)	1 (0%)	43	62
1	B	535/537 (100%)	513 (96%)	21 (4%)	1 (0%)	43	62
1	C	535/537 (100%)	513 (96%)	21 (4%)	1 (0%)	43	62
1	D	535/537 (100%)	513 (96%)	21 (4%)	1 (0%)	43	62
1	E	535/537 (100%)	513 (96%)	21 (4%)	1 (0%)	43	62
1	F	535/537 (100%)	513 (96%)	21 (4%)	1 (0%)	43	62
1	G	535/537 (100%)	513 (96%)	21 (4%)	1 (0%)	43	62
1	H	535/537 (100%)	513 (96%)	21 (4%)	1 (0%)	43	62
1	I	535/537 (100%)	513 (96%)	21 (4%)	1 (0%)	43	62
1	J	535/537 (100%)	513 (96%)	21 (4%)	1 (0%)	43	62
1	K	535/537 (100%)	513 (96%)	21 (4%)	1 (0%)	43	62
1	L	535/537 (100%)	513 (96%)	21 (4%)	1 (0%)	43	62
1	M	535/537 (100%)	513 (96%)	21 (4%)	1 (0%)	43	62
1	N	535/537 (100%)	513 (96%)	21 (4%)	1 (0%)	43	62
1	O	535/537 (100%)	513 (96%)	21 (4%)	1 (0%)	43	62
1	P	535/537 (100%)	513 (96%)	21 (4%)	1 (0%)	43	62
1	Q	535/537 (100%)	513 (96%)	21 (4%)	1 (0%)	43	62
1	R	535/537 (100%)	513 (96%)	21 (4%)	1 (0%)	43	62
1	S	535/537 (100%)	513 (96%)	21 (4%)	1 (0%)	43	62
1	T	535/537 (100%)	513 (96%)	21 (4%)	1 (0%)	43	62
1	U	535/537 (100%)	513 (96%)	21 (4%)	1 (0%)	43	62
1	V	535/537 (100%)	513 (96%)	21 (4%)	1 (0%)	43	62
1	W	535/537 (100%)	513 (96%)	21 (4%)	1 (0%)	43	62
1	X	535/537 (100%)	513 (96%)	21 (4%)	1 (0%)	43	62
1	Y	535/537 (100%)	513 (96%)	21 (4%)	1 (0%)	43	62

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	Z	535/537 (100%)	513 (96%)	21 (4%)	1 (0%)	43	62
1	a	535/537 (100%)	513 (96%)	21 (4%)	1 (0%)	43	62
1	b	535/537 (100%)	513 (96%)	21 (4%)	1 (0%)	43	62
1	c	535/537 (100%)	513 (96%)	21 (4%)	1 (0%)	43	62
1	d	535/537 (100%)	513 (96%)	21 (4%)	1 (0%)	43	62
1	e	535/537 (100%)	513 (96%)	21 (4%)	1 (0%)	43	62
1	f	535/537 (100%)	513 (96%)	21 (4%)	1 (0%)	43	62
1	g	535/537 (100%)	513 (96%)	21 (4%)	1 (0%)	43	62
1	h	535/537 (100%)	513 (96%)	21 (4%)	1 (0%)	43	62
1	i	535/537 (100%)	513 (96%)	21 (4%)	1 (0%)	43	62
1	j	535/537 (100%)	513 (96%)	21 (4%)	1 (0%)	43	62
1	k	535/537 (100%)	513 (96%)	21 (4%)	1 (0%)	43	62
1	l	535/537 (100%)	513 (96%)	21 (4%)	1 (0%)	43	62
1	m	535/537 (100%)	513 (96%)	21 (4%)	1 (0%)	43	62
1	n	535/537 (100%)	513 (96%)	21 (4%)	1 (0%)	43	62
1	o	535/537 (100%)	513 (96%)	21 (4%)	1 (0%)	43	62
1	p	535/537 (100%)	513 (96%)	21 (4%)	1 (0%)	43	62
1	q	535/537 (100%)	513 (96%)	21 (4%)	1 (0%)	43	62
1	r	535/537 (100%)	513 (96%)	21 (4%)	1 (0%)	43	62
1	s	535/537 (100%)	513 (96%)	21 (4%)	1 (0%)	43	62
1	t	535/537 (100%)	513 (96%)	21 (4%)	1 (0%)	43	62
1	u	535/537 (100%)	513 (96%)	21 (4%)	1 (0%)	43	62
1	v	535/537 (100%)	513 (96%)	21 (4%)	1 (0%)	43	62
1	w	535/537 (100%)	513 (96%)	21 (4%)	1 (0%)	43	62
1	x	535/537 (100%)	513 (96%)	21 (4%)	1 (0%)	43	62
1	y	535/537 (100%)	513 (96%)	21 (4%)	1 (0%)	43	62
1	z	535/537 (100%)	513 (96%)	21 (4%)	1 (0%)	43	62
All	All	32100/32220 (100%)	30780 (96%)	1260 (4%)	60 (0%)	44	62

All (60) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	A	188	VAL

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Mol	Chain	Res	Type
1	B	188	VAL
1	C	188	VAL
1	D	188	VAL
1	E	188	VAL
1	F	188	VAL
1	G	188	VAL
1	H	188	VAL
1	I	188	VAL
1	J	188	VAL
1	K	188	VAL
1	L	188	VAL
1	M	188	VAL
1	N	188	VAL
1	O	188	VAL
1	P	188	VAL
1	Q	188	VAL
1	R	188	VAL
1	S	188	VAL
1	T	188	VAL
1	U	188	VAL
1	V	188	VAL
1	W	188	VAL
1	X	188	VAL
1	Y	188	VAL
1	Z	188	VAL
1	1	188	VAL
1	2	188	VAL
1	3	188	VAL
1	4	188	VAL
1	5	188	VAL
1	6	188	VAL
1	a	188	VAL
1	b	188	VAL
1	c	188	VAL
1	d	188	VAL
1	e	188	VAL
1	f	188	VAL
1	g	188	VAL
1	h	188	VAL
1	i	188	VAL
1	j	188	VAL
1	k	188	VAL

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Mol	Chain	Res	Type
1	l	188	VAL
1	m	188	VAL
1	n	188	VAL
1	o	188	VAL
1	p	188	VAL
1	q	188	VAL
1	r	188	VAL
1	s	188	VAL
1	t	188	VAL
1	u	188	VAL
1	v	188	VAL
1	w	188	VAL
1	x	188	VAL
1	y	188	VAL
1	z	188	VAL
1	7	188	VAL
1	0	188	VAL

5.3.2 Protein sidechains (i)

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

5.3.3 RNA (i)

There are no RNA molecules in this entry.

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

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

5.5 Carbohydrates (i)

There are no oligosaccharides in this entry.

5.6 Ligand geometry (i)

There are no ligands in this entry.

5.7 Other polymers (i)

There are no such residues in this entry.

5.8 Polymer linkage issues (i)

There are no chain breaks in this entry.

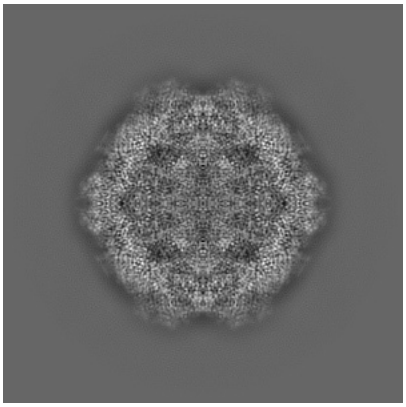
6 Map visualisation

This section contains visualisations of the EMDB entry EMD-7300. These allow visual inspection of the internal detail of the map and identification of artifacts.

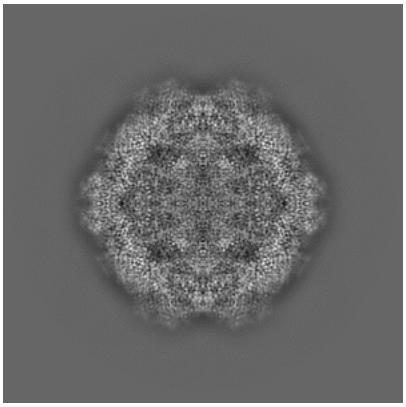
No raw map or half-maps were deposited for this entry and therefore no images, graphs, etc. pertaining to the raw map can be shown.

6.1 Orthogonal projections

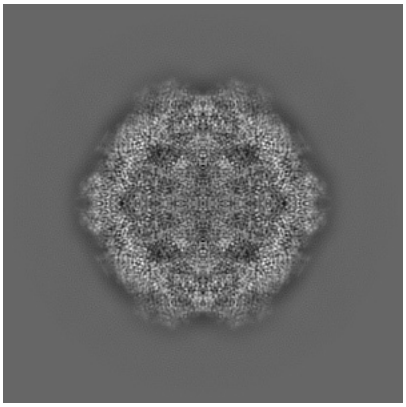
6.1.1 Primary map



X



Y

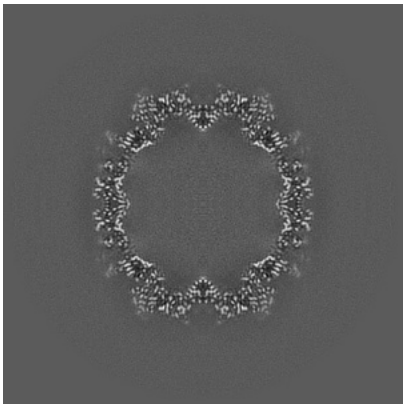


Z

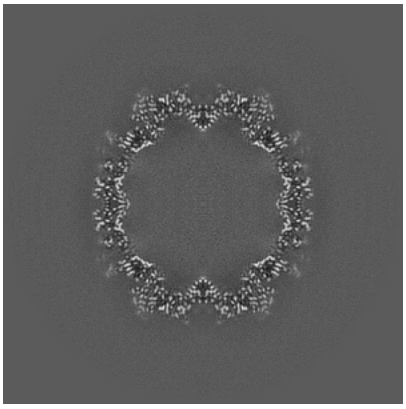
The images above show the map projected in three orthogonal directions.

6.2 Central slices

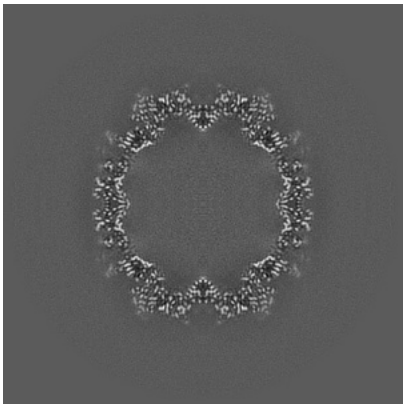
6.2.1 Primary map



X Index: 205



Y Index: 205

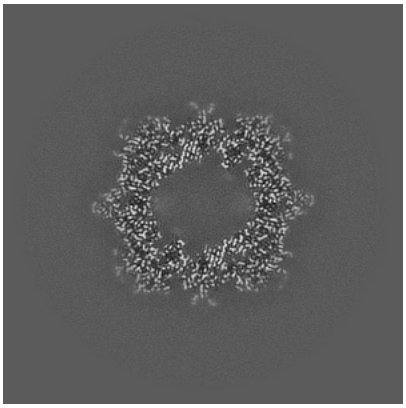


Z Index: 205

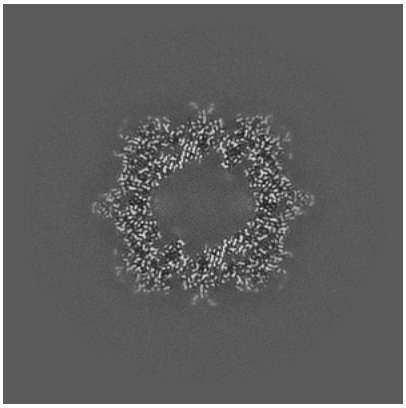
The images above show central slices of the map in three orthogonal directions.

6.3 Largest variance slices (i)

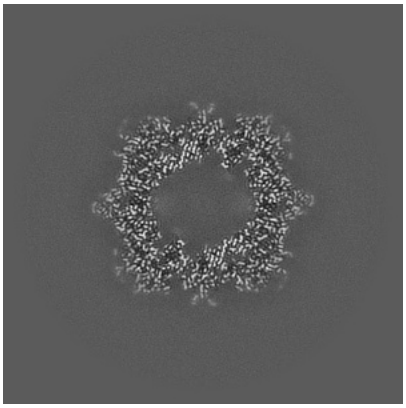
6.3.1 Primary map



X Index: 271



Y Index: 271

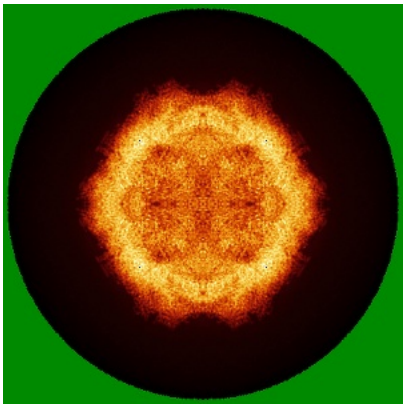


Z Index: 271

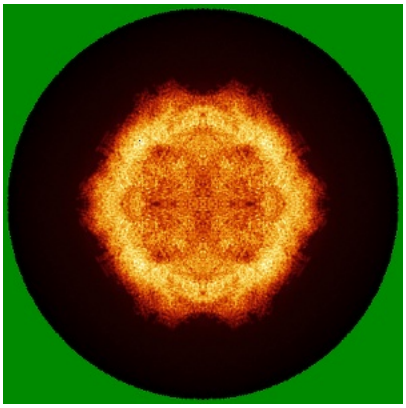
The images above show the largest variance slices of the map in three orthogonal directions.

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

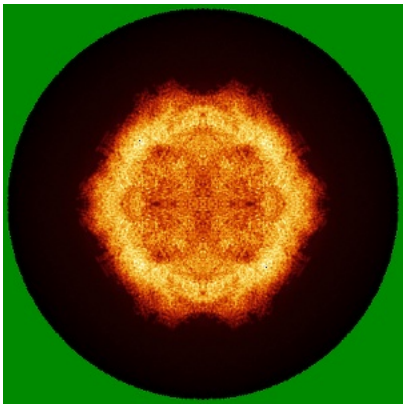
6.4.1 Primary map



X



Y

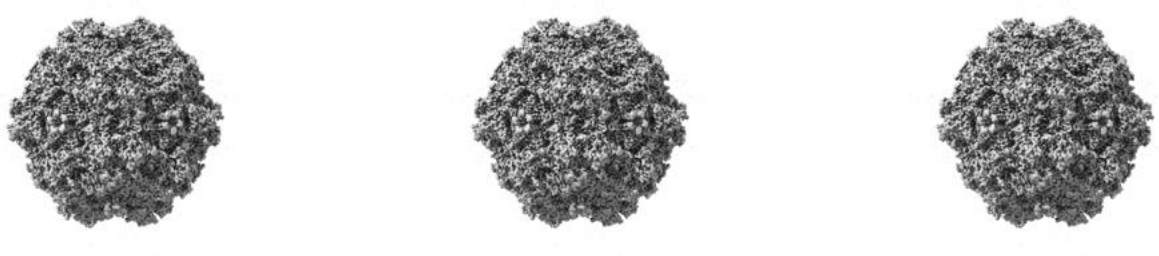


Z

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.

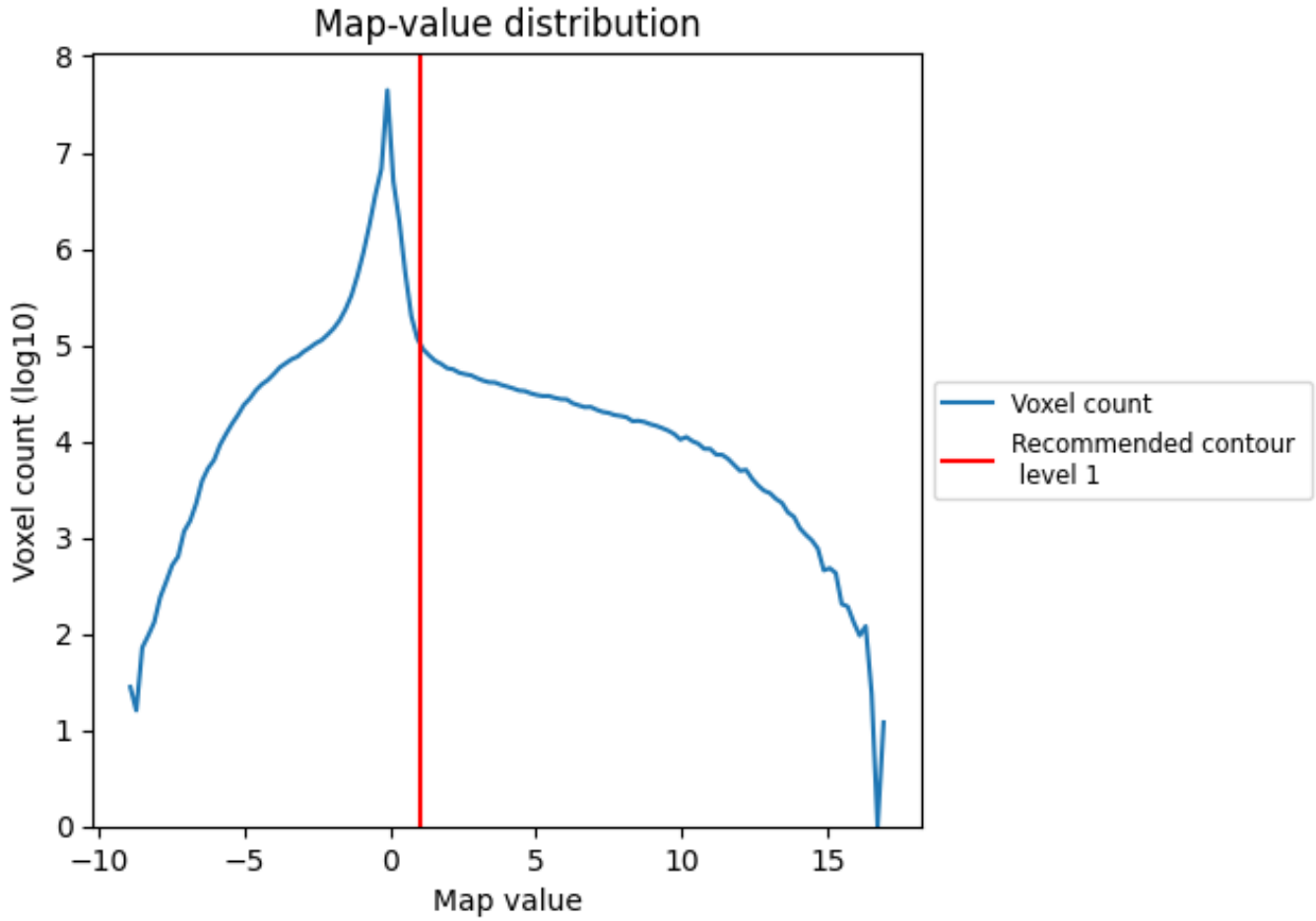
6.6 Mask visualisation (i)

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

7 Map analysis

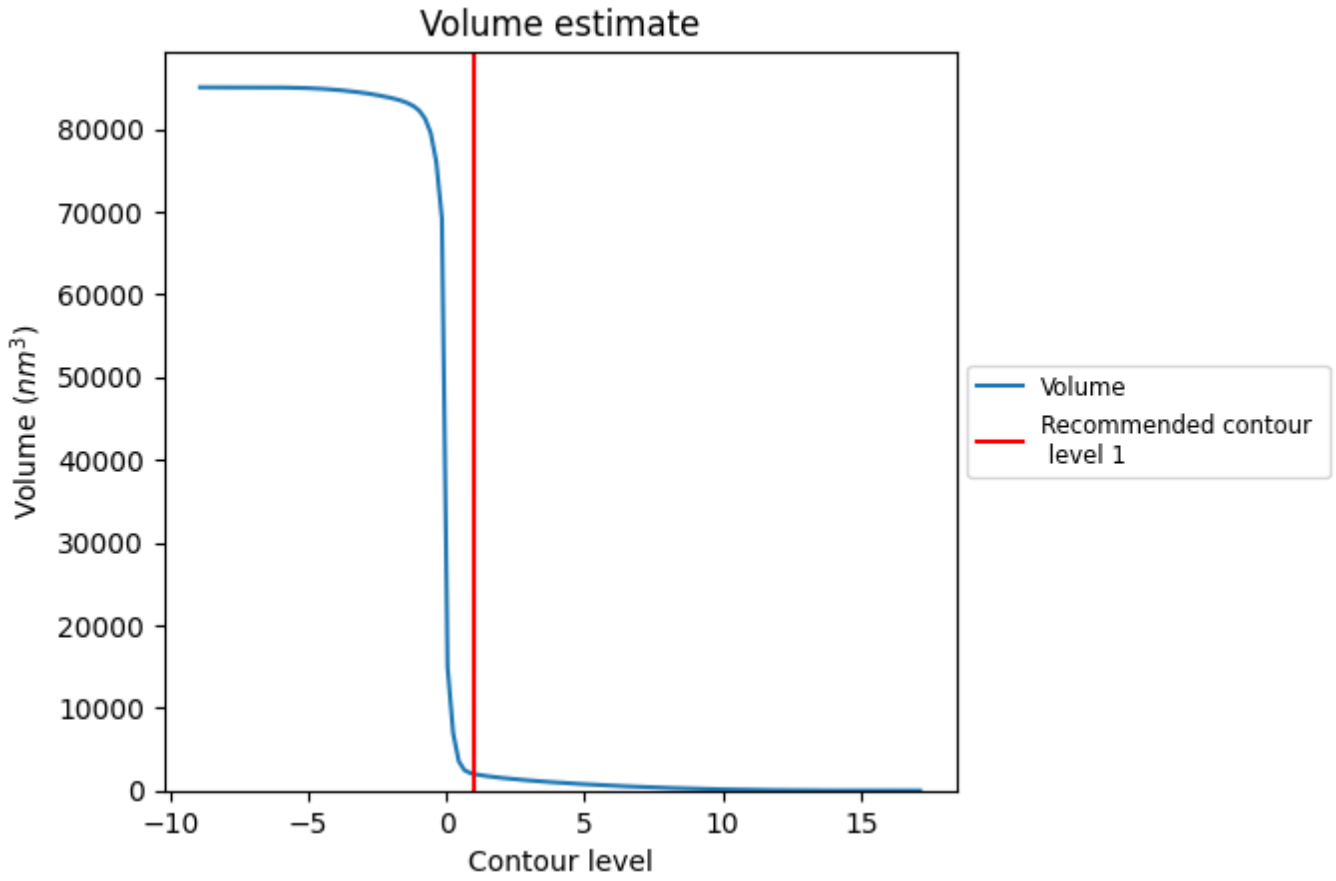
This section contains the results of statistical analysis of the map.

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.

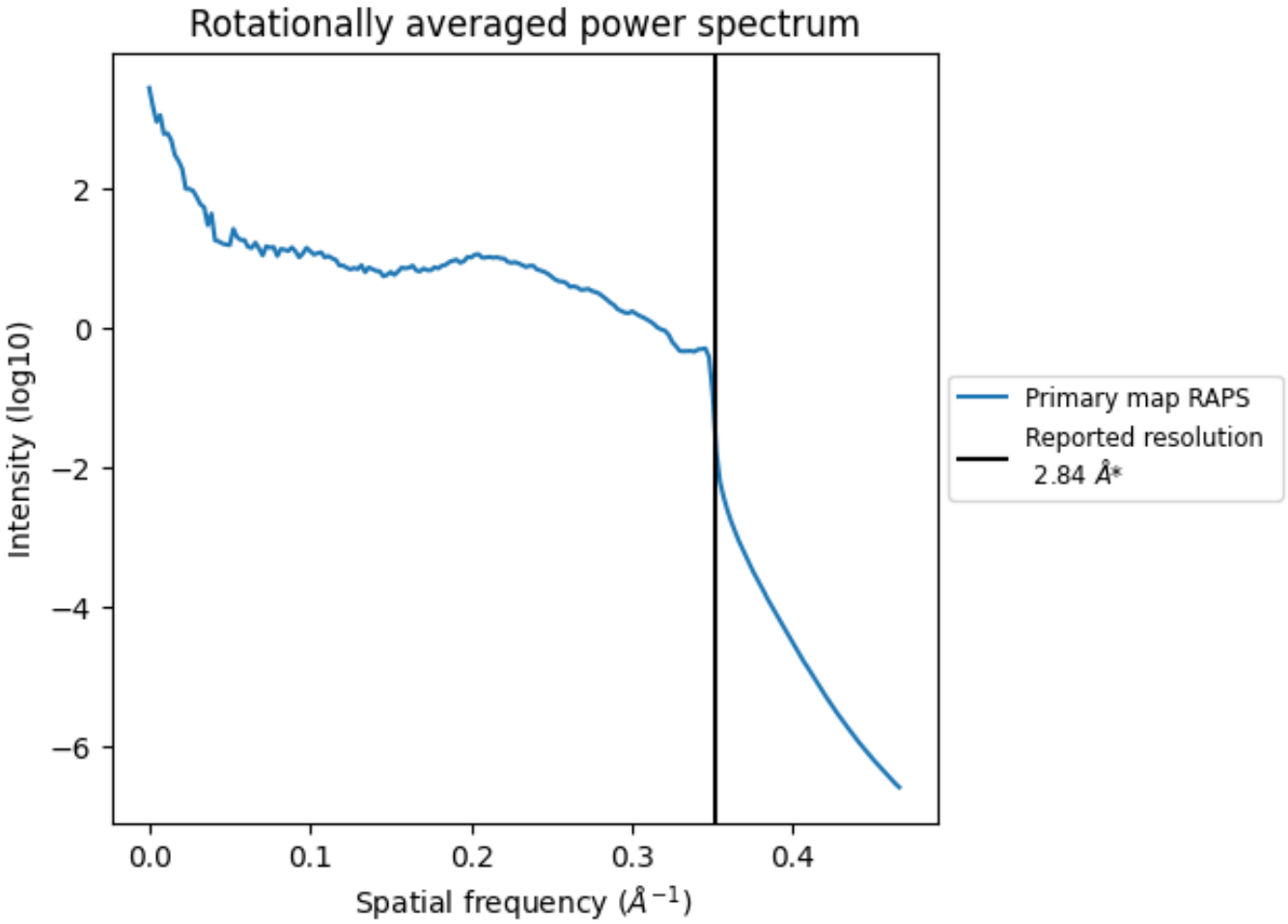
7.2 Volume estimate



The volume at the recommended contour level is 2012 nm^3; this corresponds to an approximate mass of 1818 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 0.352 Å^{-1}

8 Fourier-Shell correlation

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

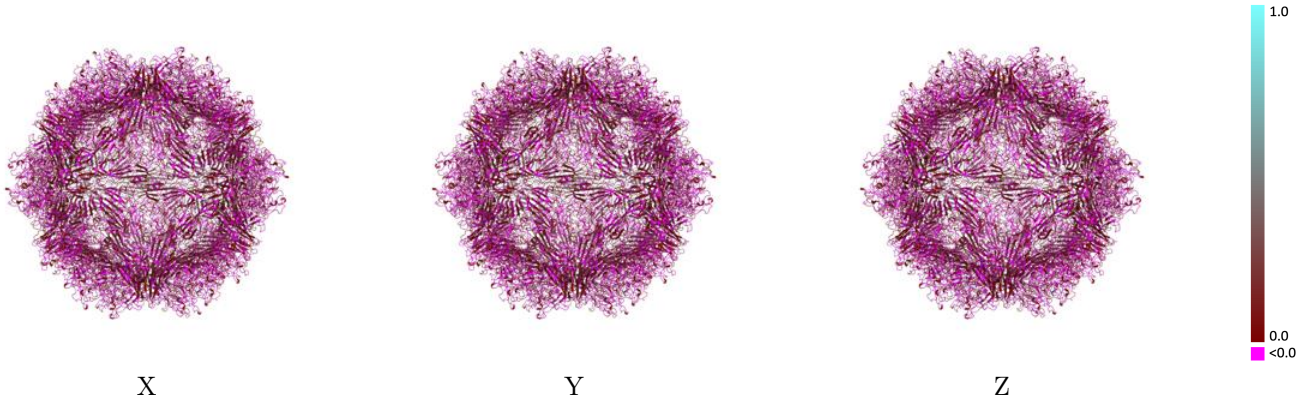
9 Map-model fit

This section contains information regarding the fit between EMDB map EMD-7300 and PDB model 6BWX. Per-residue inclusion information can be found in section 3 on page 11.

9.1 Map-model overlay

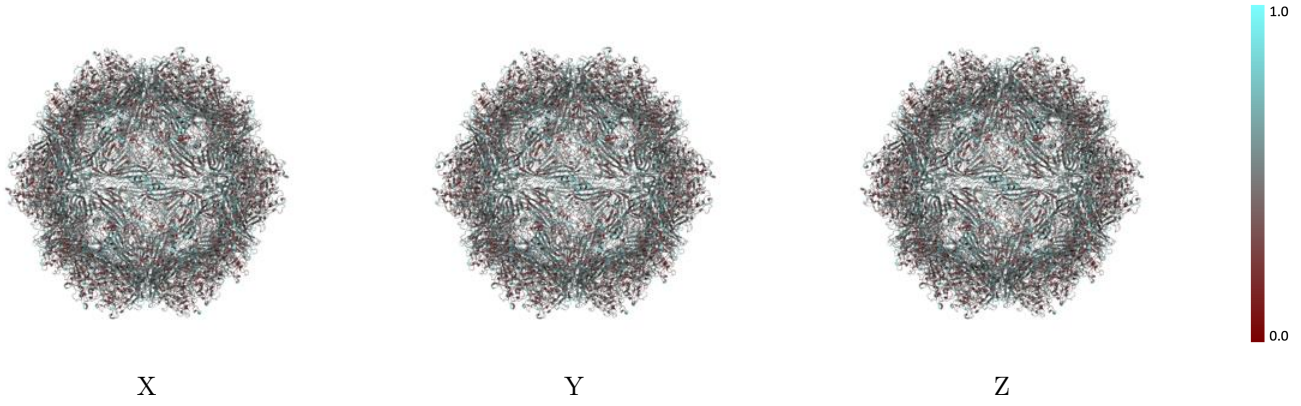
This section was not generated.

9.2 Q-score mapped to coordinate model



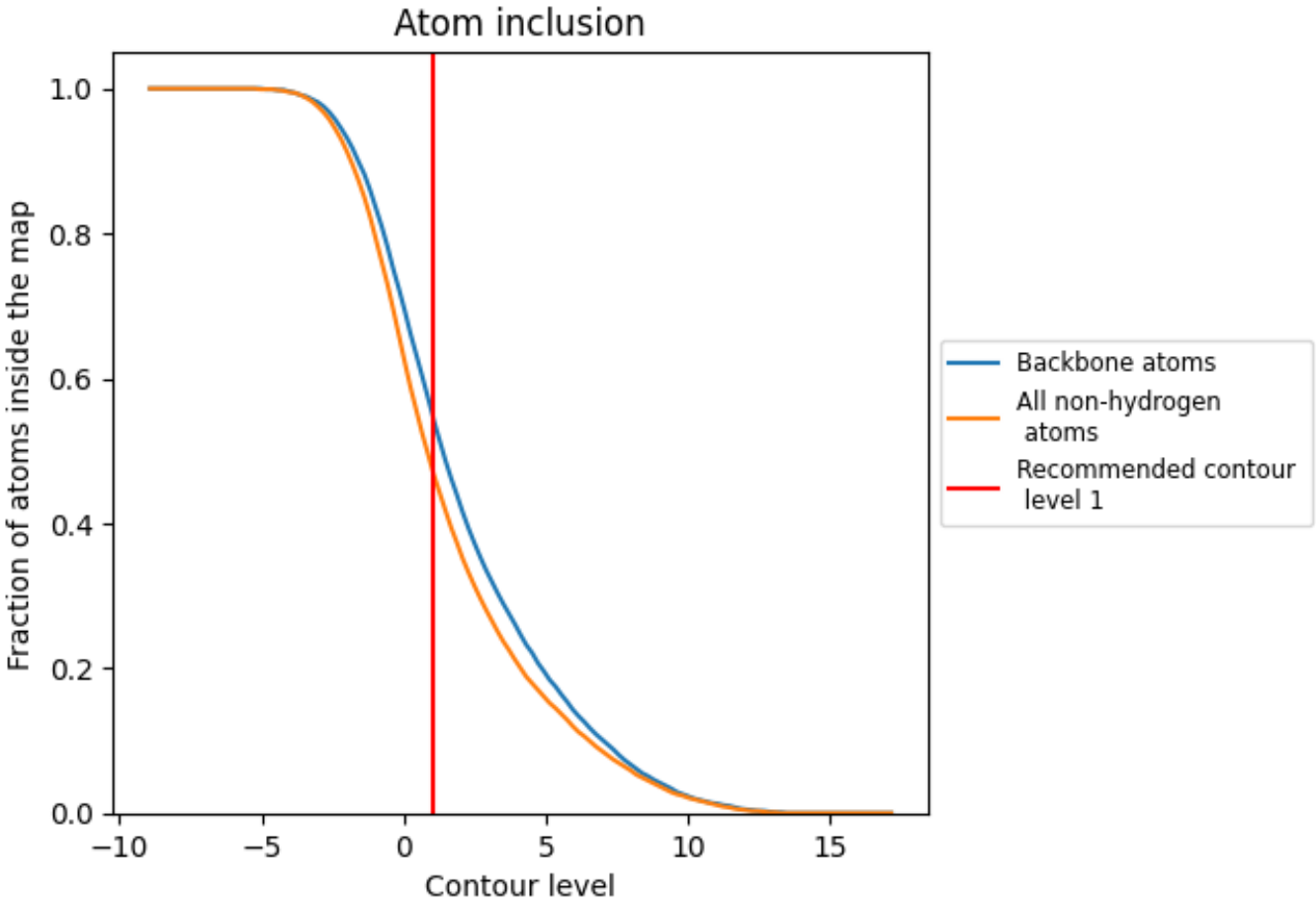
The images above show the model with each residue coloured according its Q-score. This shows their resolvability in the map with higher Q-score values reflecting better resolvability. Please note: Q-score is calculating the resolvability of atoms, and thus high values are only expected at resolutions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



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, 55% of all backbone atoms, 48% 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	0.4750	0.0490
0	0.4760	0.0580
1	0.4750	0.0590
2	0.4740	0.0550
3	0.4750	0.0520
4	0.4760	0.0460
5	0.4750	0.0430
6	0.4740	0.0510
7	0.4740	0.0480
A	0.4750	0.0440
B	0.4740	0.0530
C	0.4760	0.0530
D	0.4750	0.0510
E	0.4740	0.0390
F	0.4740	0.0330
G	0.4760	0.0420
H	0.4740	0.0500
I	0.4750	0.0510
J	0.4740	0.0560
K	0.4750	0.0580
L	0.4760	0.0550
M	0.4740	0.0550
N	0.4750	0.0520
O	0.4750	0.0480
P	0.4750	0.0440
Q	0.4770	0.0350
R	0.4760	0.0300
S	0.4740	0.0340
T	0.4750	0.0440
U	0.4740	0.0350
V	0.4760	0.0380
W	0.4750	0.0420
X	0.4760	0.0470
Y	0.4760	0.0510
Z	0.4760	0.0580

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Chain	Atom inclusion	Q-score
a	0.4730	0.0530
b	0.4760	0.0490
c	0.4730	0.0510
d	0.4740	0.0530
e	0.4760	0.0510
f	0.4750	0.0520
g	0.4760	0.0540
h	0.4740	0.0520
i	0.4750	0.0480
j	0.4760	0.0430
k	0.4750	0.0450
l	0.4760	0.0530
m	0.4740	0.0510
n	0.4750	0.0410
o	0.4740	0.0500
p	0.4740	0.0470
q	0.4750	0.0490
r	0.4760	0.0510
s	0.4760	0.0440
t	0.4750	0.0570
u	0.4750	0.0560
v	0.4760	0.0600
w	0.4750	0.0610
x	0.4740	0.0590
y	0.4760	0.0480
z	0.4730	0.0400