



# Full wwPDB/EMDatabank EM Map/Model Validation Report ⓘ

Jan 17, 2018 – 05:46 PM EST

PDB ID : 6BWV  
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/EMDatabank EM Map/Model Validation Report  
for a publicly released PDB/EMDB entry.

We welcome your comments at [validation@mail.wwpdb.org](mailto:validation@mail.wwpdb.org)  
A user guide is available at  
<http://wwpdb.org/validation/2016/EMValidationReportHelp>  
with specific help available everywhere you see the ⓘ symbol.

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MolProbity : 4.02b-467  
Percentile statistics : 20161228.v01 (using entries in the PDB archive December 28th 2016)  
Ideal geometry (proteins) : Engh & Huber (2001)  
Ideal geometry (DNA, RNA) : Parkinson et. al. (1996)  
Validation Pipeline (wwPDB-VP) : rb-20030736

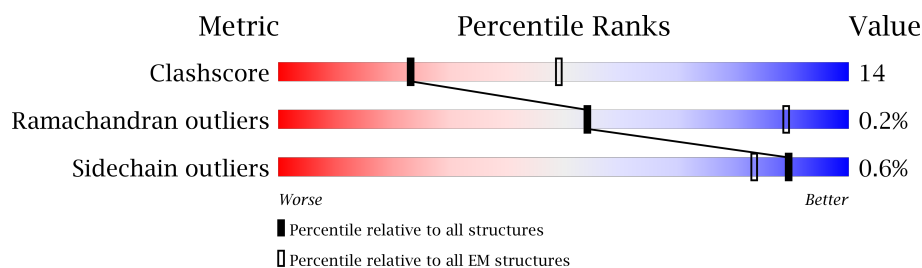
# 1 Overall quality at a glance

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.
















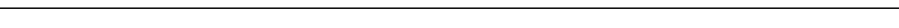











Metric	Whole archive (#Entries)	EM structures (#Entries)
Clashscore	125131	1336
Ramachandran outliers	121729	1120
Sidechain outliers	121581	1026

The table below summarises the geometric issues observed across the polymeric chains. The red, orange, yellow and green segments on the bar indicate the fraction of residues that contain outliers for  $\geq 3$ , 2, 1 and 0 types of geometric quality criteria. A grey segment represents the fraction of residues that are not modelled. The numeric value for each fraction is indicated below the corresponding segment, with a dot representing fractions  $\leq 5\%$ .

Mol	Chain	Length	Quality of chain
1	0	537	64% 36% .
1	1	537	64% 35% .
1	2	537	63% 36% .
1	3	537	63% 36% .
1	4	537	64% 35% .
1	5	537	64% 35% .
1	6	537	65% 35% .
1	7	537	64% 36% .
1	A	537	64% 35% .

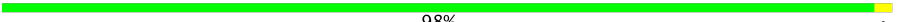
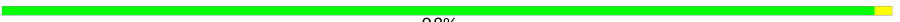
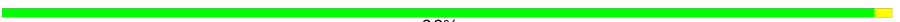












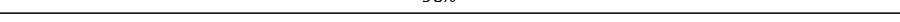
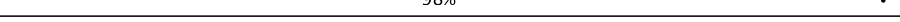
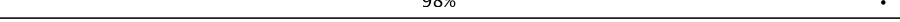
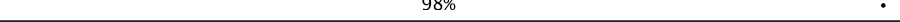
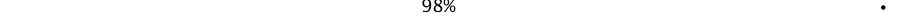
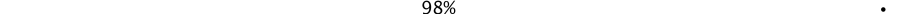
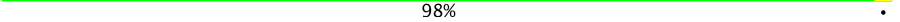
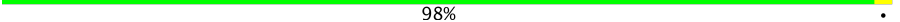
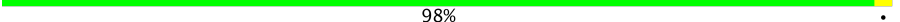
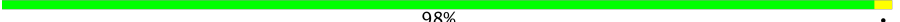
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Mol	Chain	Length	Quality of chain
1	B	537	 63% 36% .
1	C	537	 63% 36% .
1	D	537	 64% 36% .
1	E	537	 63% 36% .
1	F	537	 63% 36% .
1	G	537	 62% 37% .
1	H	537	 63% 36% .
1	I	537	 63% 36% .
1	J	537	 64% 35% .
1	K	537	 63% 36% .
1	L	537	 63% 37% .
1	M	537	 64% 35% .
1	N	537	 63% 37% .
1	O	537	 63% 36% .
1	P	537	 62% 37% .
1	Q	537	 63% 36% .
1	R	537	 64% 36% .
1	S	537	 63% 36% .
1	T	537	 64% 36% .
1	U	537	 64% 36% .
1	V	537	 63% 36% .
1	W	537	 64% 35% .
1	X	537	 64% 35% .
1	Y	537	 63% 36% .
1	Z	537	 63% 36% .

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Mol	Chain	Length	Quality of chain
1	a	537	 98% .
1	b	537	 98% .
1	c	537	 98% .
1	d	537	 98% .
1	e	537	 98% .
1	f	537	 98% .
1	g	537	 98% .
1	h	537	 98% .
1	i	537	 98% .
1	j	537	 98% .
1	k	537	 98% .
1	l	537	 98% .
1	m	537	 98% .
1	n	537	 98% .
1	o	537	 98% .
1	p	537	 98% .
1	q	537	 98% .
1	r	537	 98% .
1	s	537	 98% .
1	t	537	 98% .
1	u	537	 98% .
1	v	537	 98% .
1	w	537	 98% .
1	x	537	 98% .
1	y	537	 98% .

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Mol	Chain	Length	Quality of chain
1	z	537	<div><div></div><div>98%</div><div></div></div>

## 2 Entry composition

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	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		
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		

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

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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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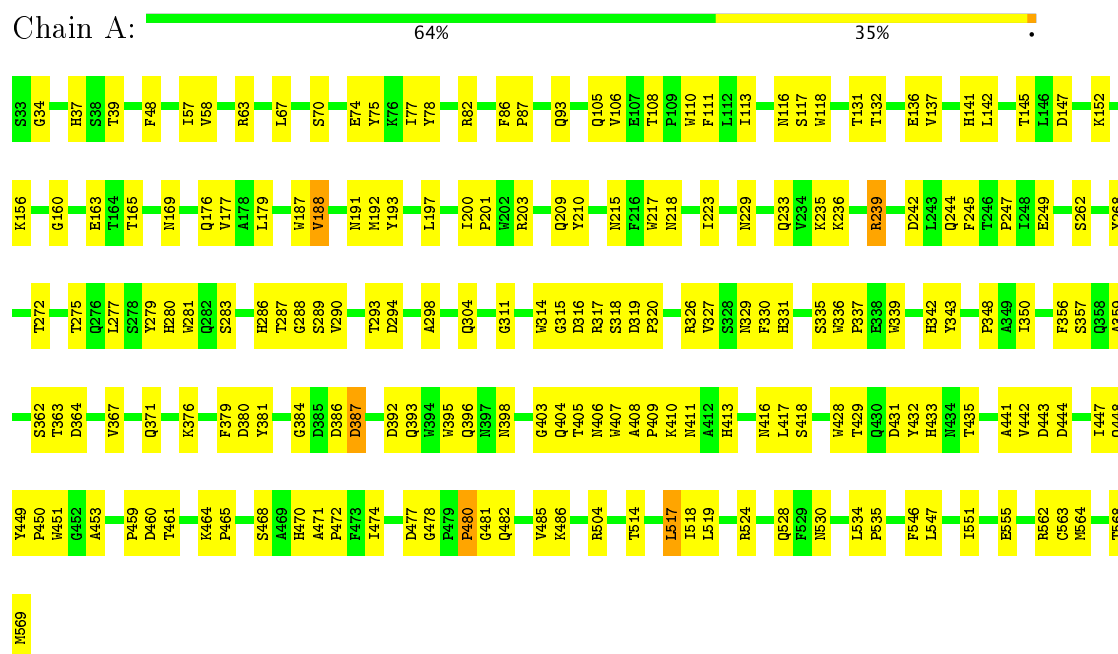
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Chain	Residue	Modelled	Actual	Comment	Reference
e	35	VAL	ILE	conflict	UNP A0A097PIK3
f	35	VAL	ILE	conflict	UNP A0A097PIK3
g	35	VAL	ILE	conflict	UNP A0A097PIK3
h	35	VAL	ILE	conflict	UNP A0A097PIK3
i	35	VAL	ILE	conflict	UNP A0A097PIK3
j	35	VAL	ILE	conflict	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

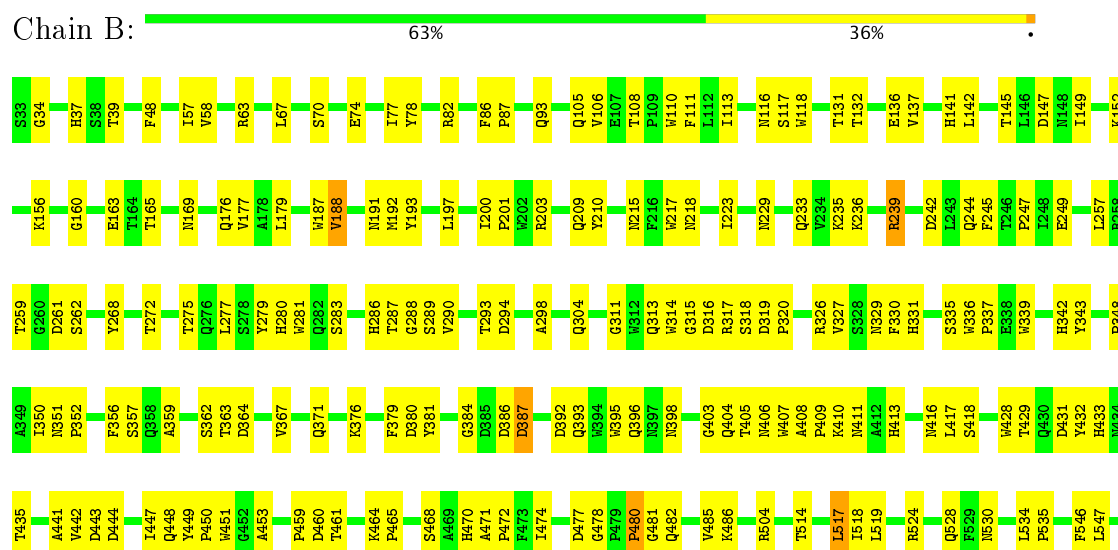
### 3 Residue-property plots

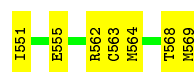
These plots are drawn for all protein, RNA and DNA chains in the entry. The first graphic for a chain summarises the proportions of the various outlier classes displayed in the second graphic. The second graphic shows the sequence view annotated by issues in geometry. Residues are color-coded according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

#### • Molecule 1: VP2



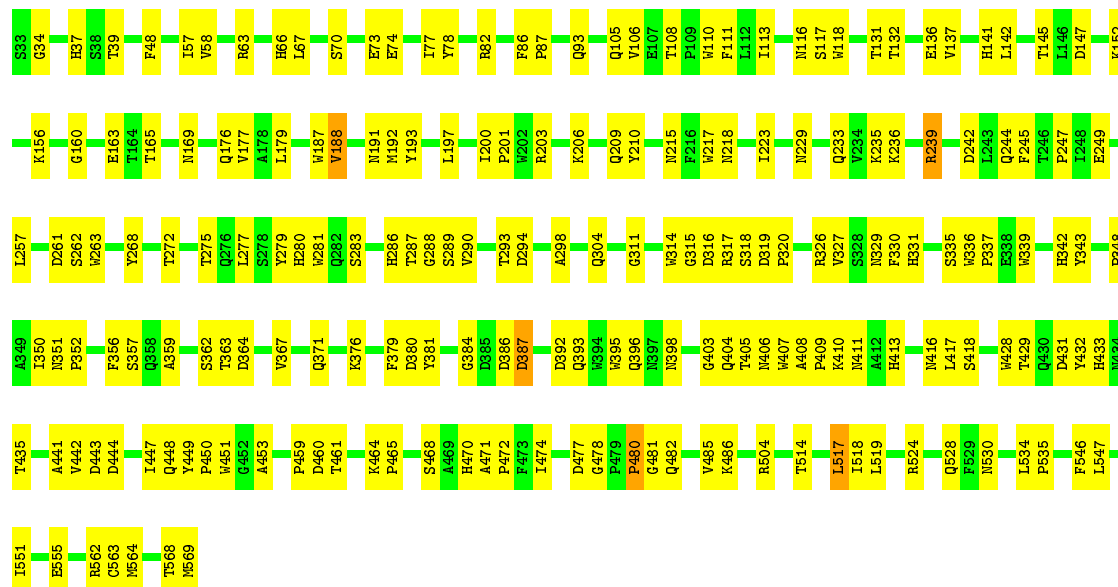
#### • Molecule 1: VP2





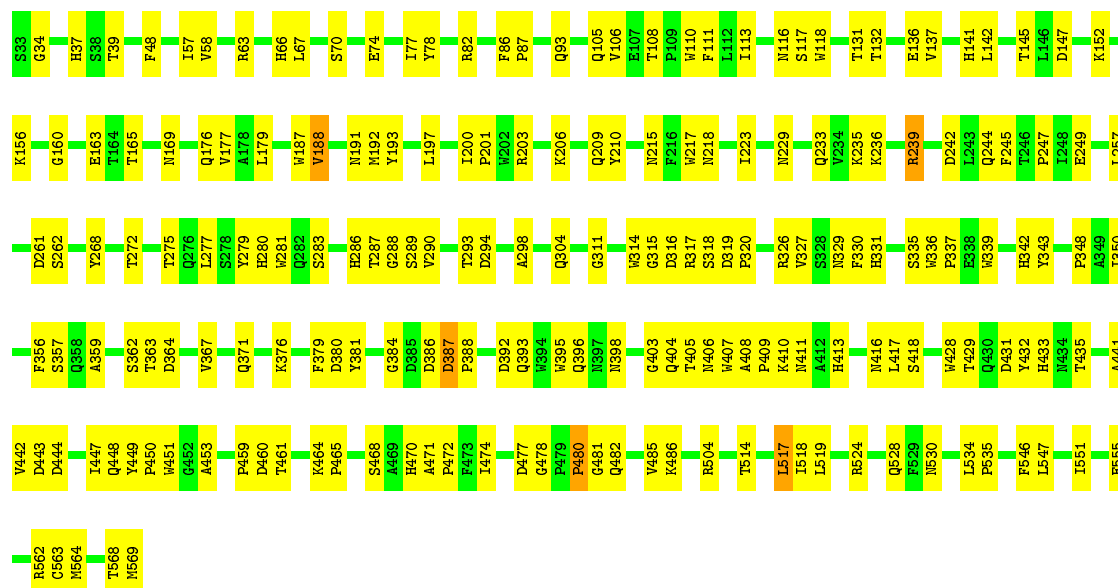
• Molecule 1: VP2

Chain C:  63% 36%



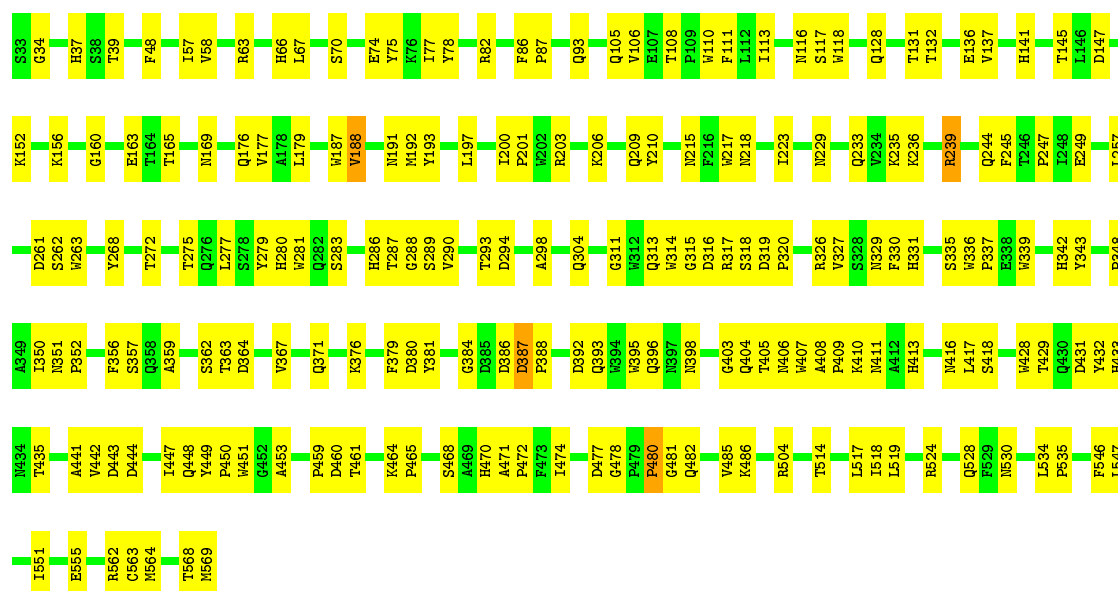
• Molecule 1: VP2

Chain D:  64% 36%



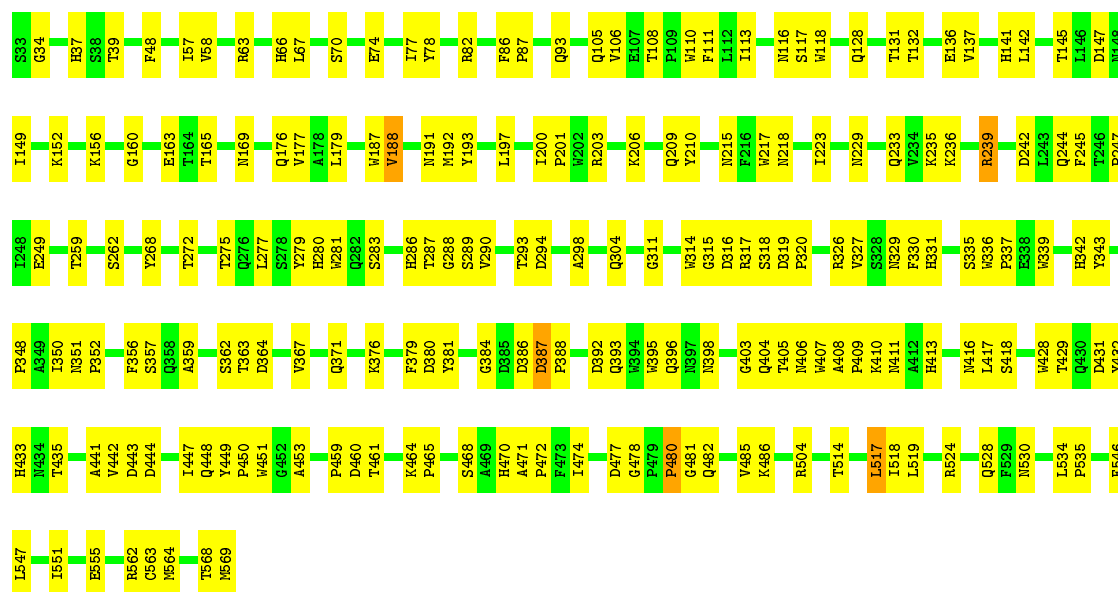
• Molecule 1: VP2

Chain E:  63% 36%



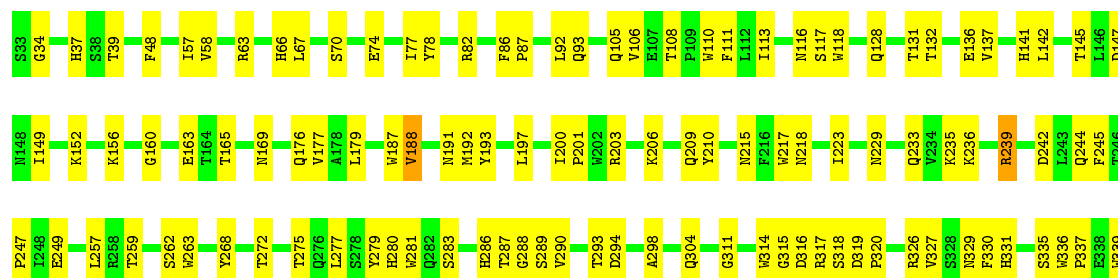
• Molecule 1: VP2

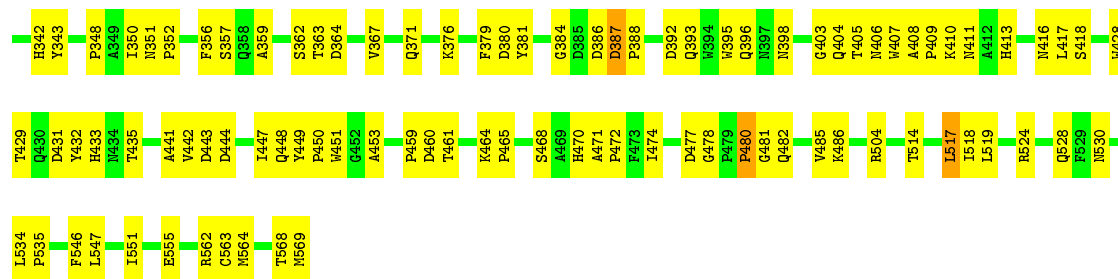
Chain F: 63% 36% .



• Molecule 1: VP2

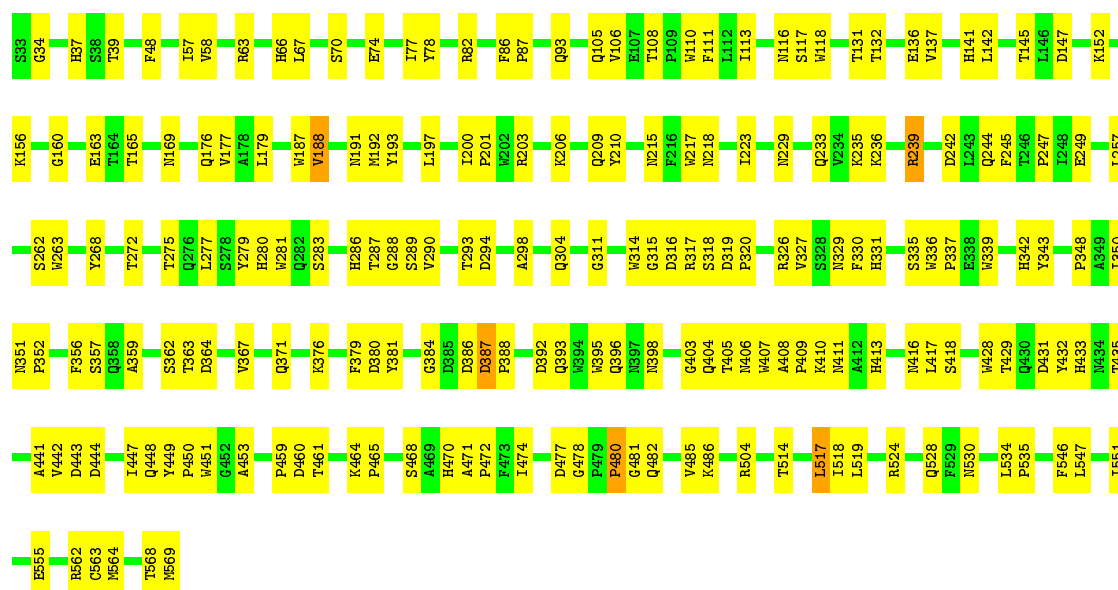
Chain G: 62% 37% .





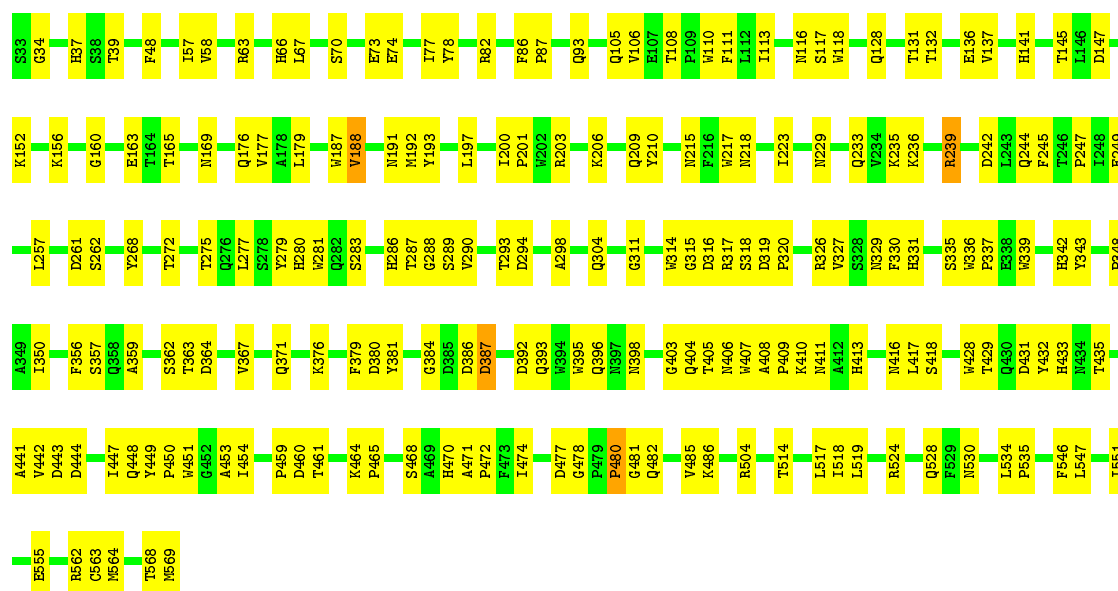
• Molecule 1: VP2

Chain H: 63% 36% .

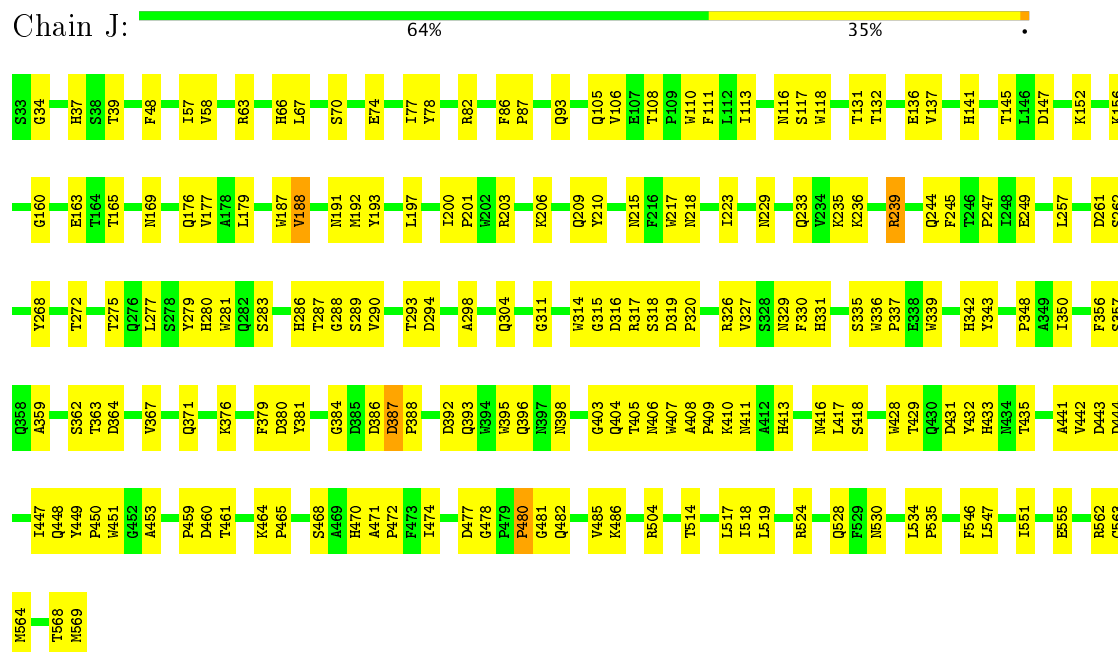


• Molecule 1: VP2

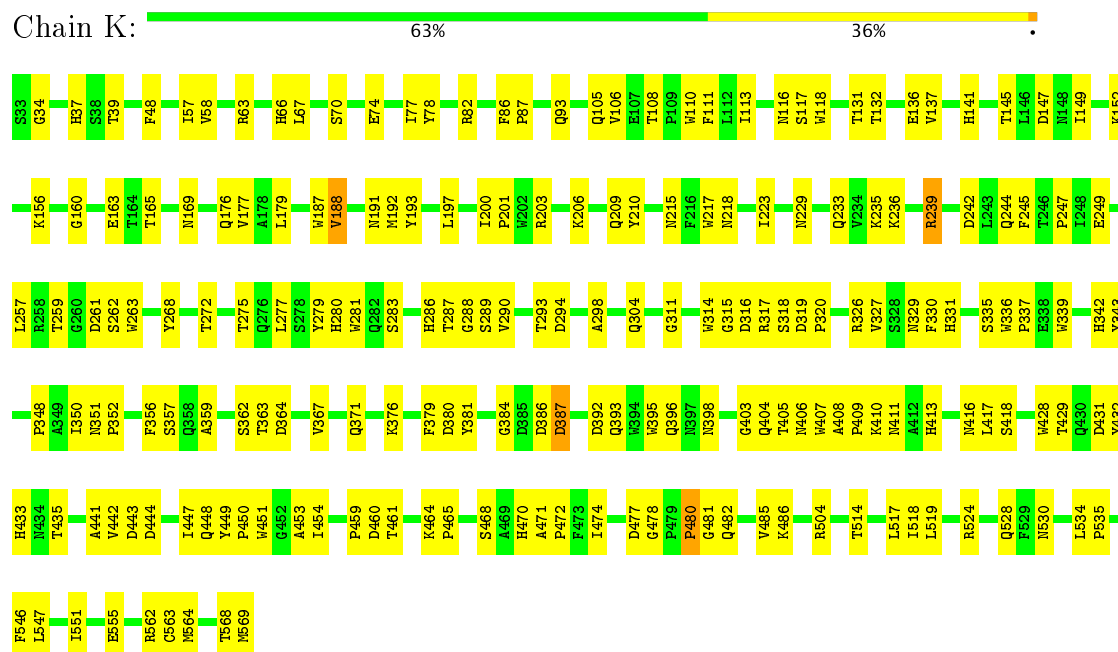
Chain I: 63% 36% .



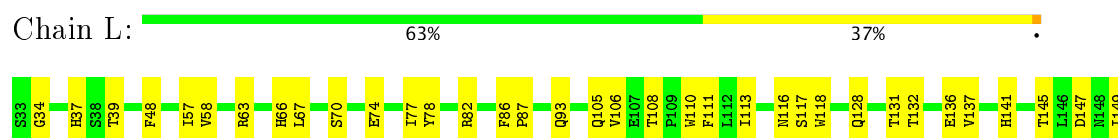
- Molecule 1: VP2



- Molecule 1: VP2

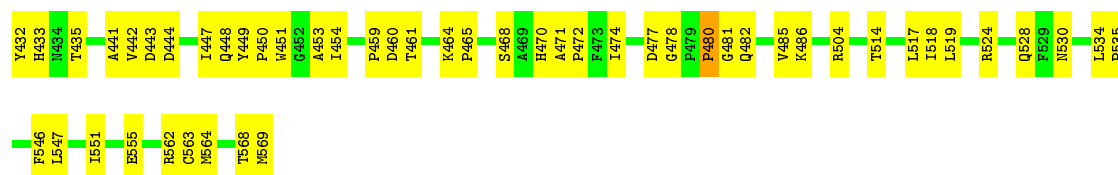


- Molecule 1: VP2



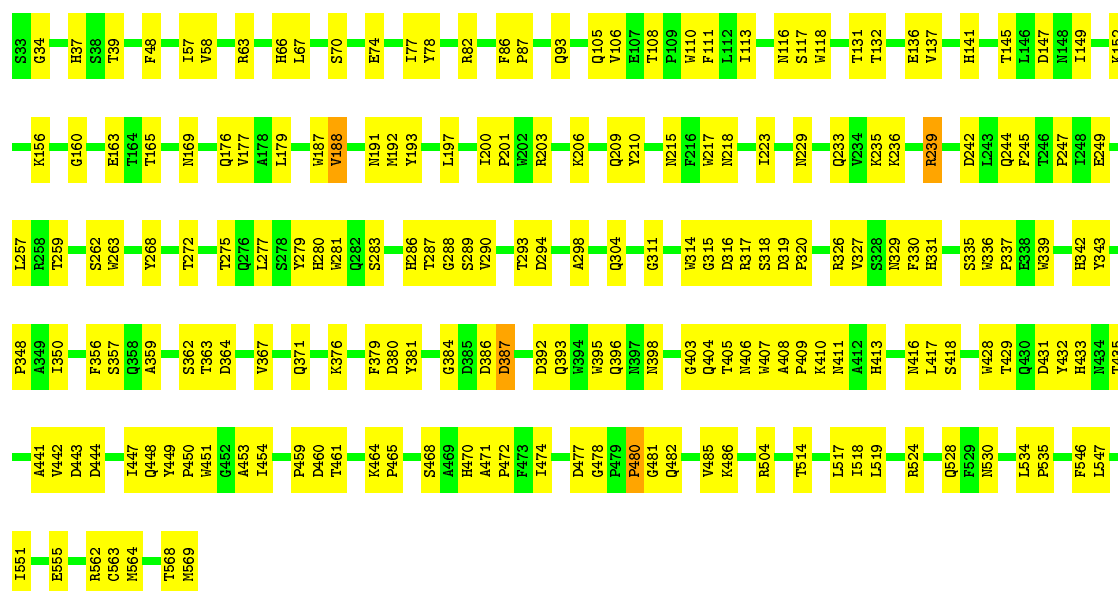






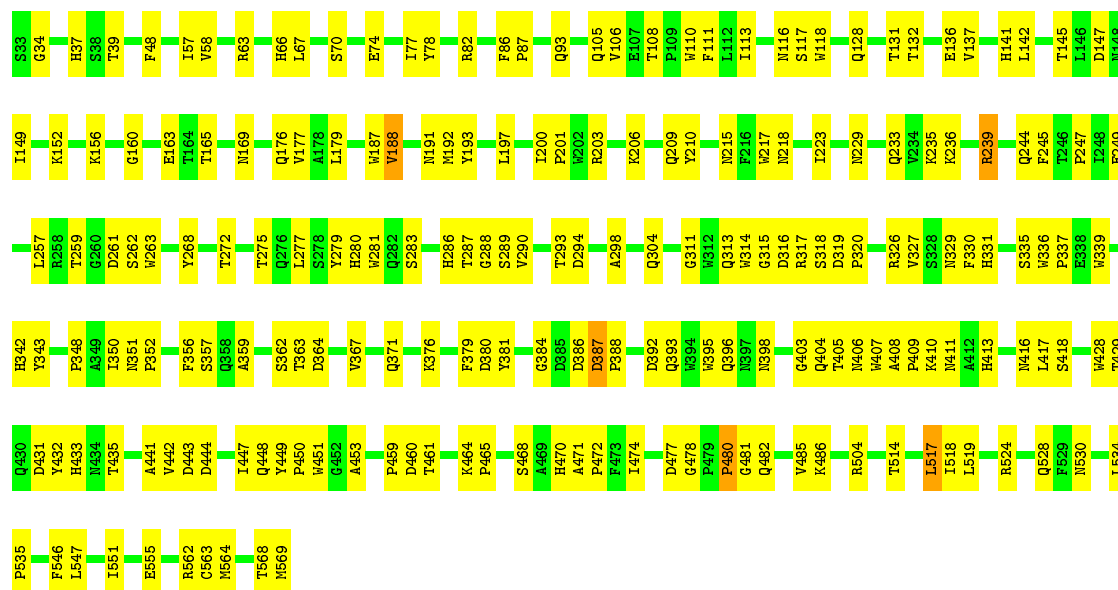
• Molecule 1: VP2

Chain O: 63% 36%

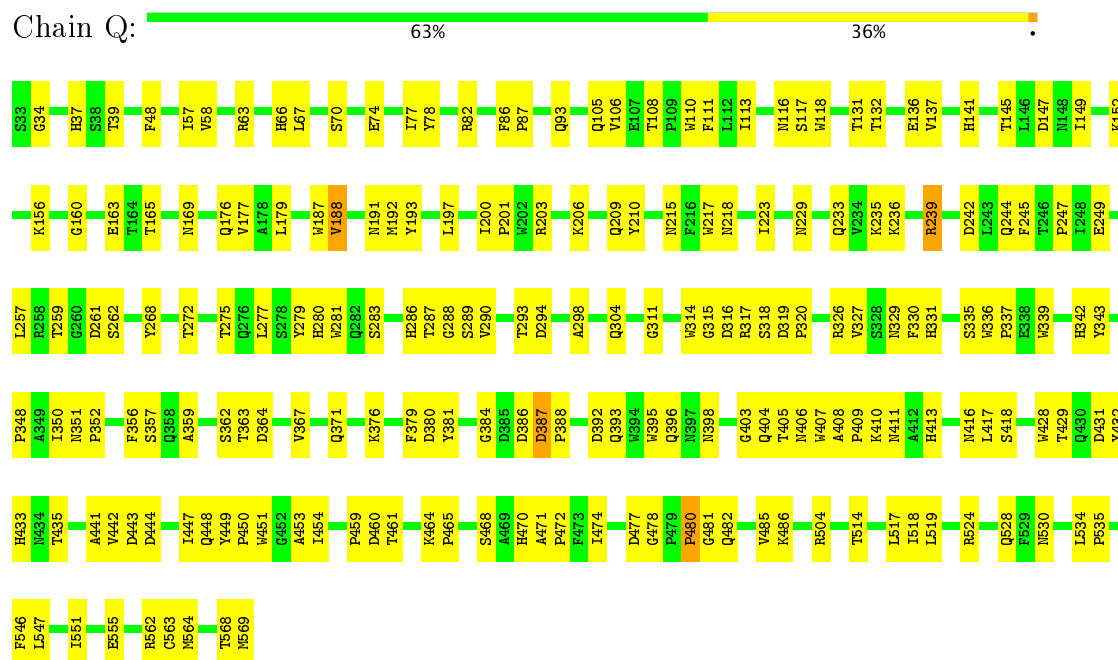


• Molecule 1: VP2

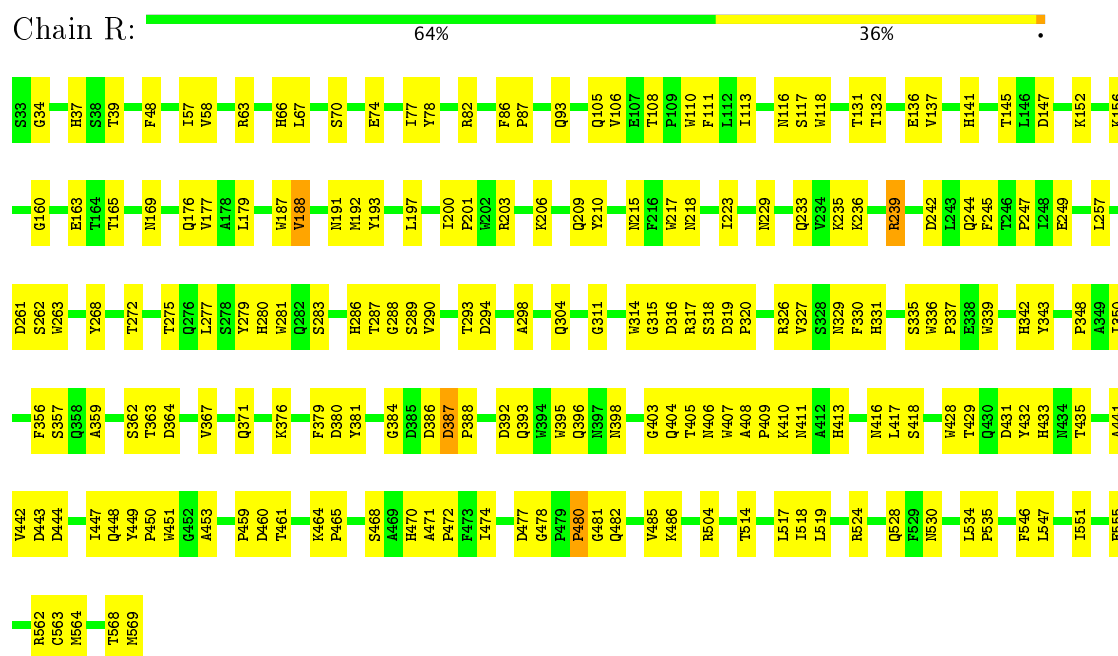
Chain P: 62% 37%



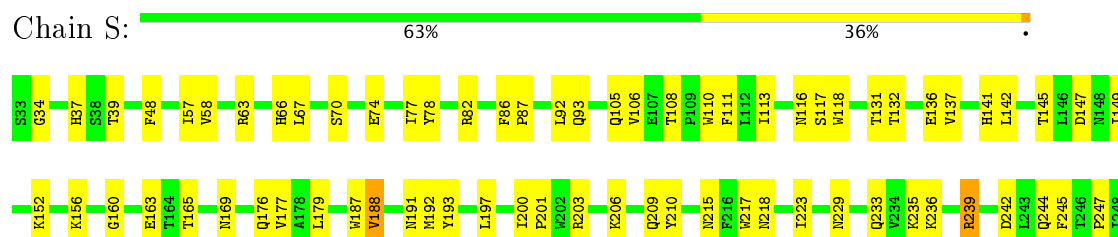
• Molecule 1: VP2

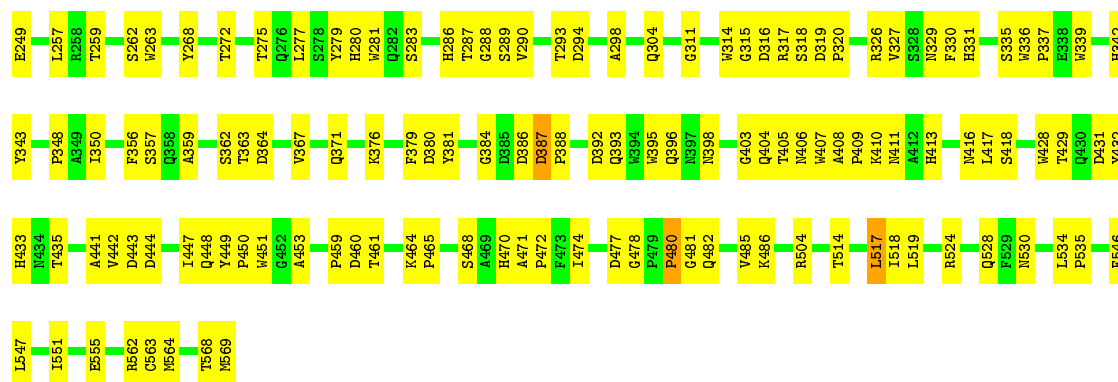


- Molecule 1: VP2



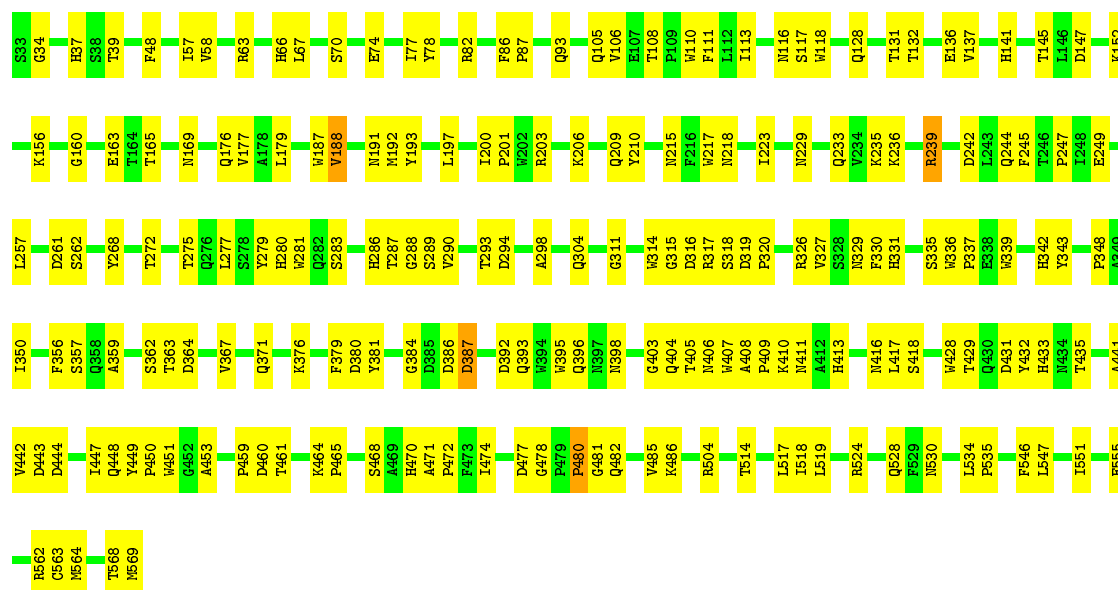
- Molecule 1: VP2





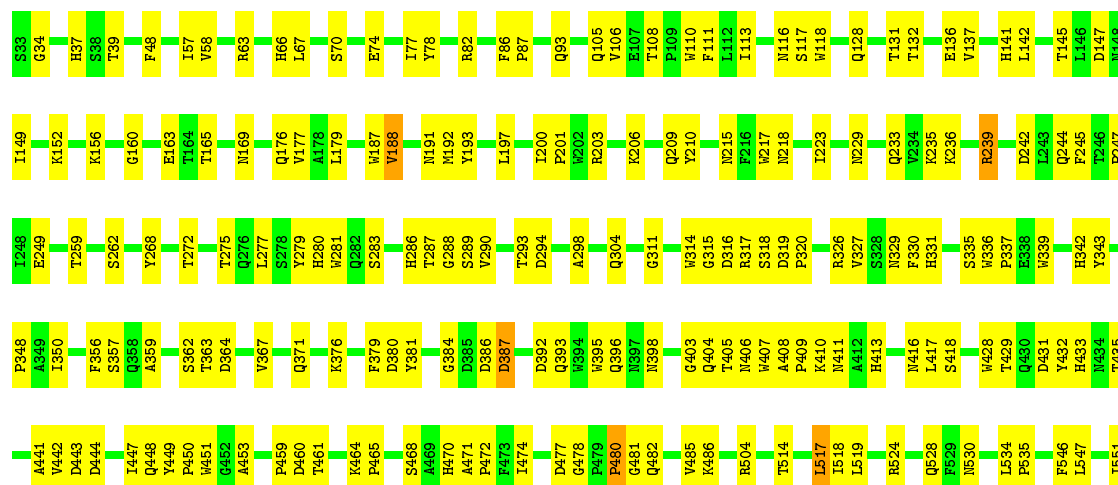
• Molecule 1: VP2

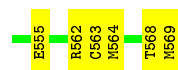
Chain T: 64% 36%



• Molecule 1: VP2

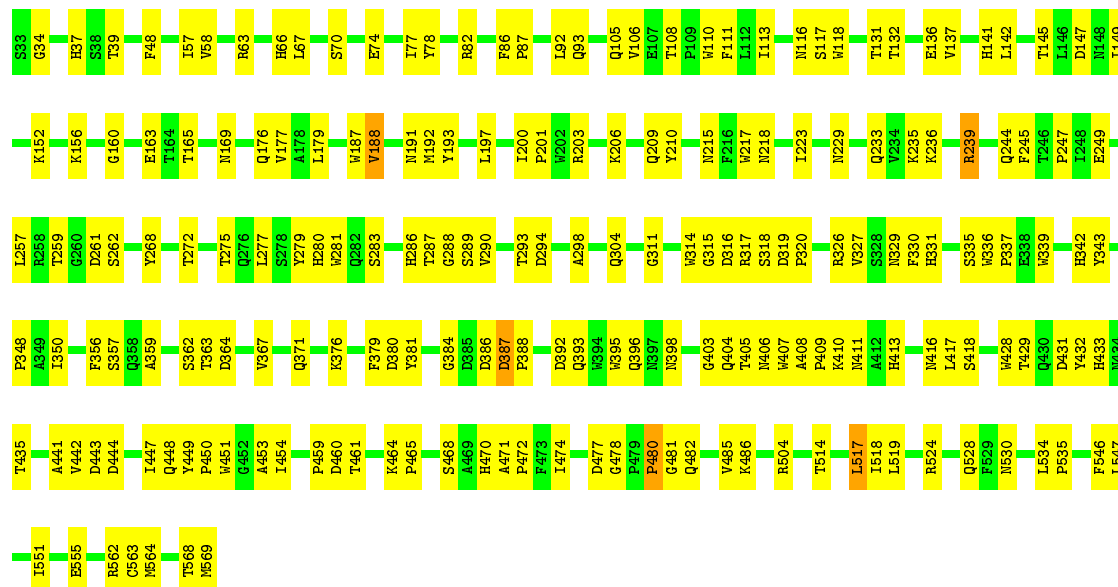
Chain U: 64% 36%





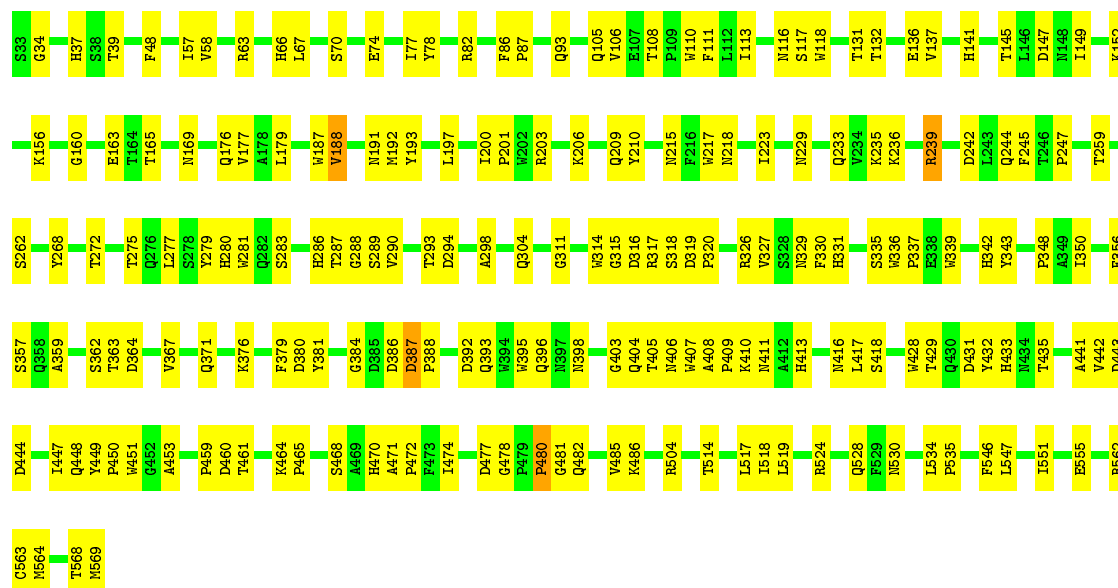
• Molecule 1: VP2

Chain V: 63% 36%



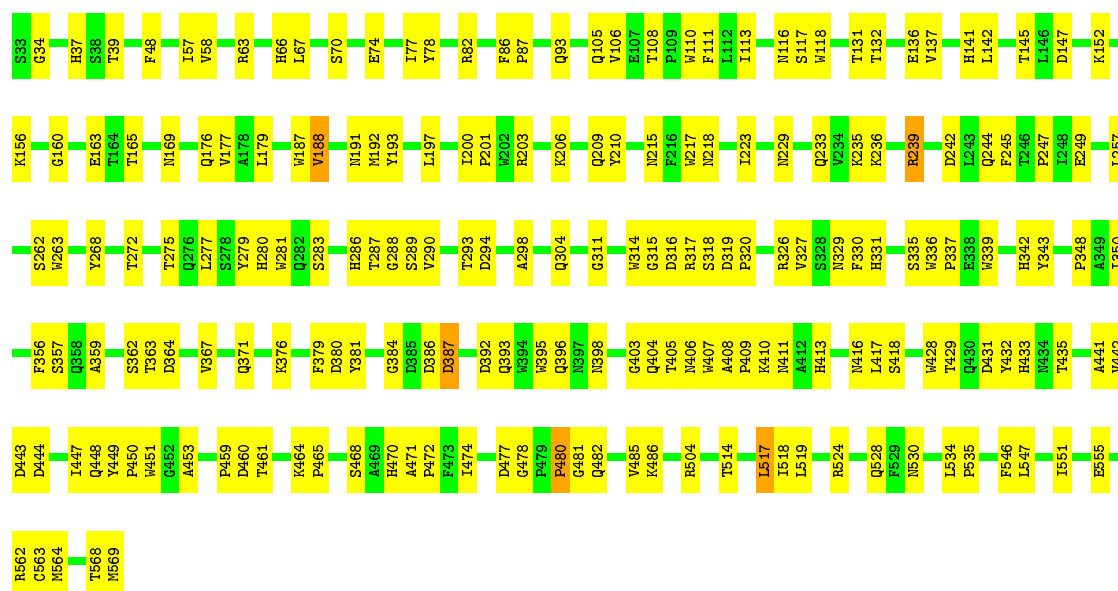
• Molecule 1: VP2

Chain W: 64% 35%



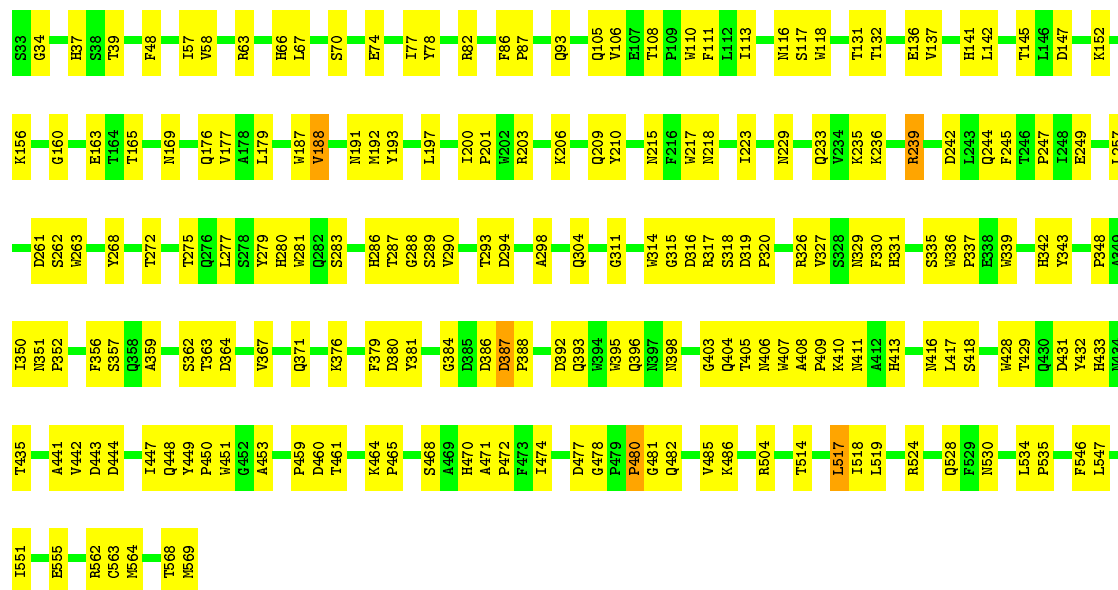
• Molecule 1: VP2

Chain X: 64% 35%



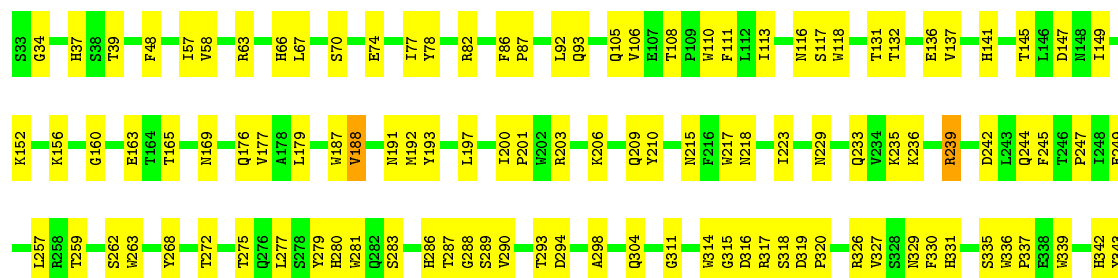
### • Molecule 1: VP2

Chain Y: 63% 36% .



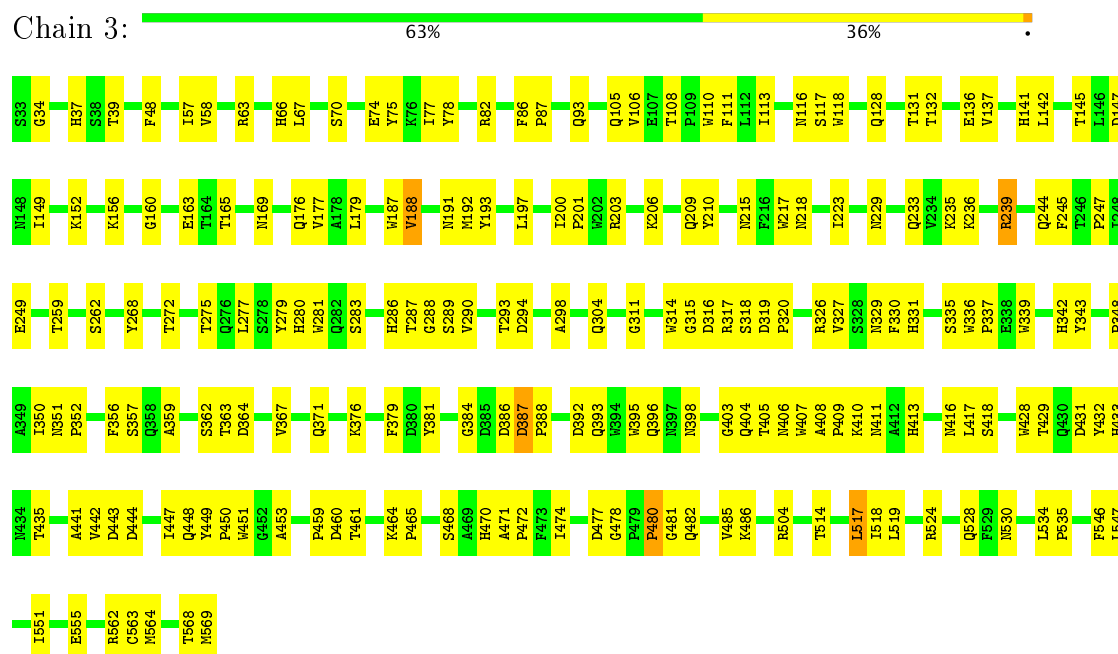
### • Molecule 1: VP2

Chain Z: 63% 36% .

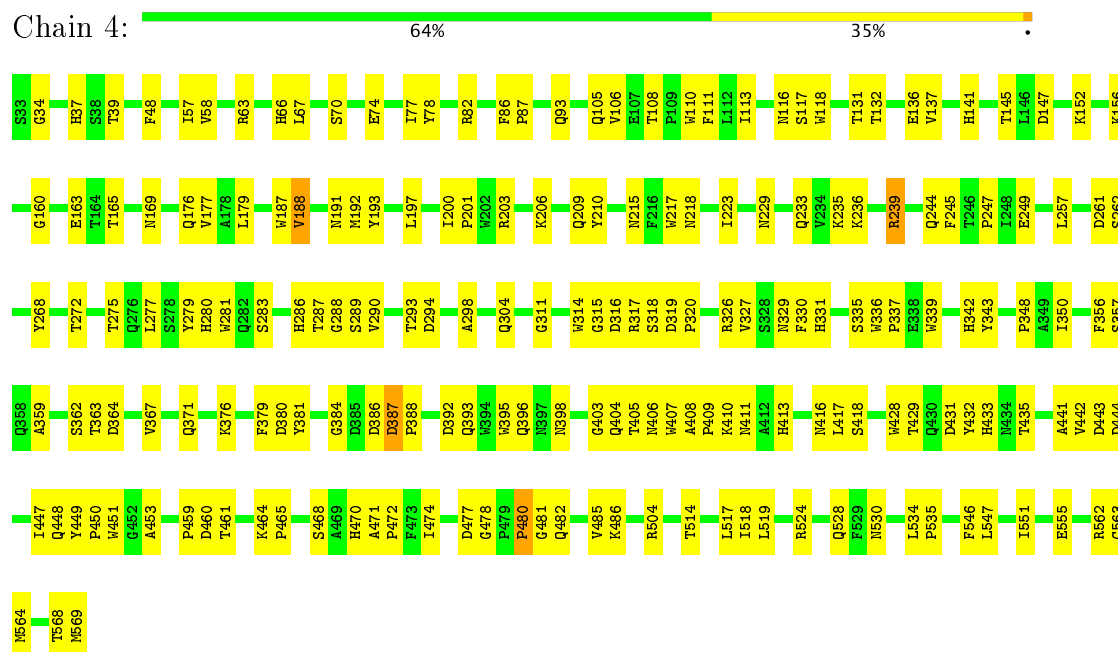




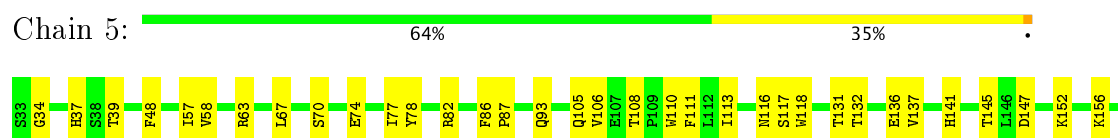
- Molecule 1: VP2

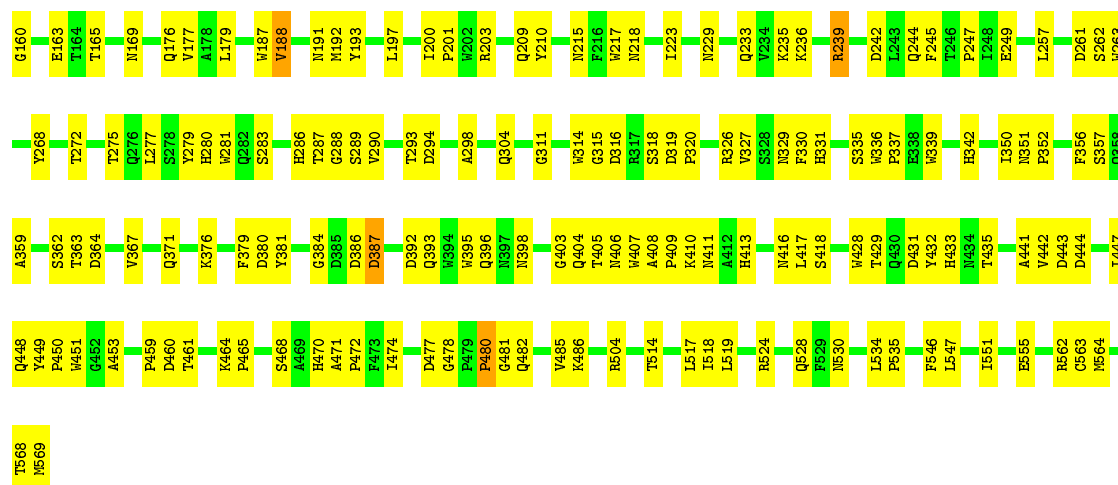


- Molecule 1: VP2



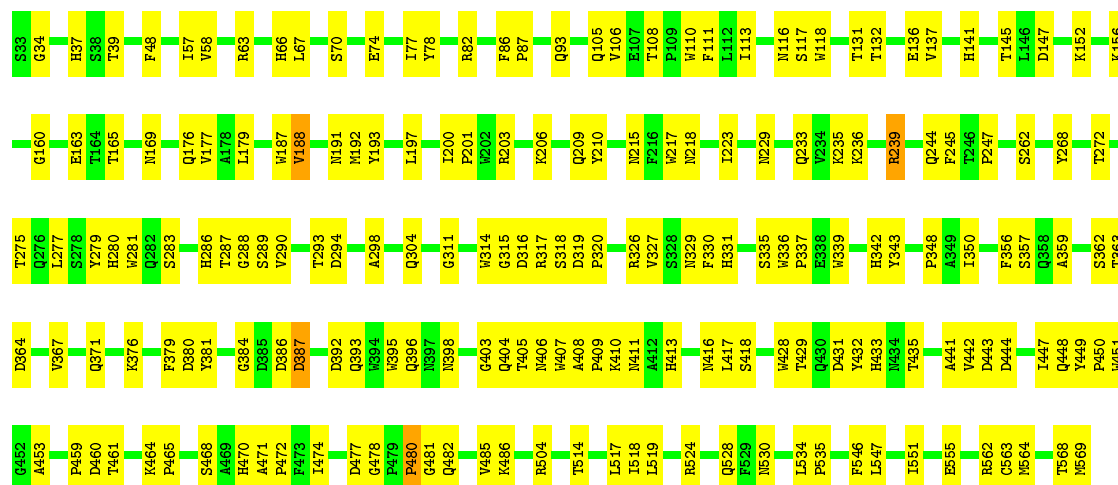
- Molecule 1: VP2





• Molecule 1: VP2

Chain 6: 65% 35% .



• Molecule 1: VP2

Chain a: 98% .



• Molecule 1: VP2

Chain b: 98% .



• Molecule 1: VP2

Chain c: 98% .





- Molecule 1: VP2

Chain d:  98%



- Molecule 1: VP2

Chain e:  98%



- Molecule 1: VP2

Chain f:  98%



- Molecule 1: VP2

Chain g:  98%



- Molecule 1: VP2

Chain h:  98%



- Molecule 1: VP2

Chain i:  98%



- Molecule 1: VP2

Chain j:  98%



## • Molecule 1: VP2

Chain k:  98%

## • Molecule 1: VP2

Chain l:  98%

## • Molecule 1: VP2

Chain m:  98%

## • Molecule 1: VP2

Chain n:  98%

## • Molecule 1: VP2

Chain o:  98%

## • Molecule 1: VP2

Chain p:  98%

## • Molecule 1: VP2

Chain q:  98%

## • Molecule 1: VP2

Chain r:  98%



- Molecule 1: VP2

Chain s:  98%



- Molecule 1: VP2

Chain t:  98%



- Molecule 1: VP2

Chain u:  98%



- Molecule 1: VP2

Chain v:  98%



- Molecule 1: VP2

Chain w:  98%



- Molecule 1: VP2

Chain x:  98%



- Molecule 1: VP2

Chain y:  98%



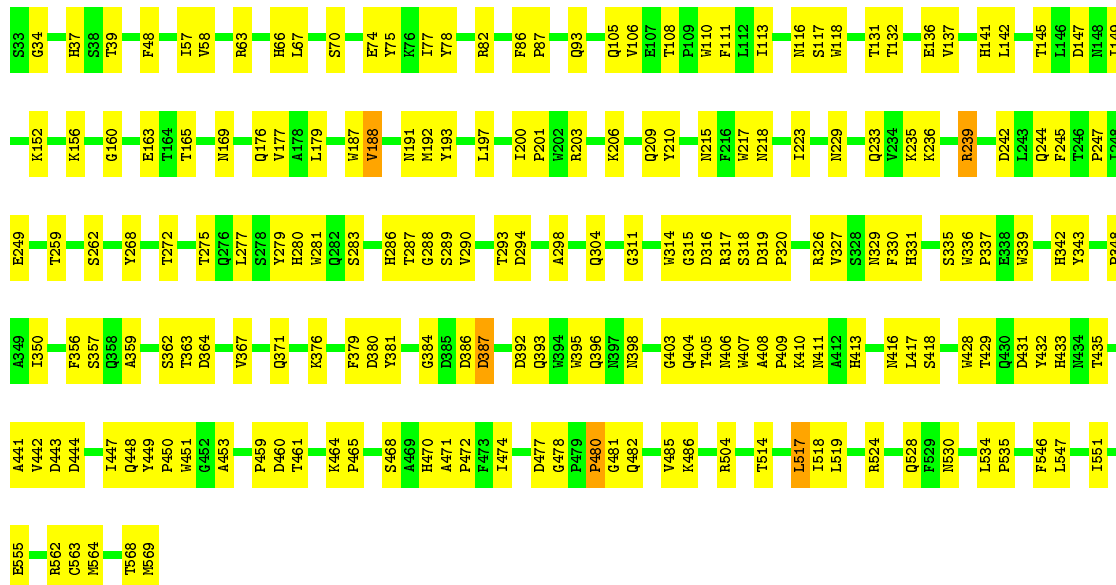
- Molecule 1: VP2

Chain z:  98%



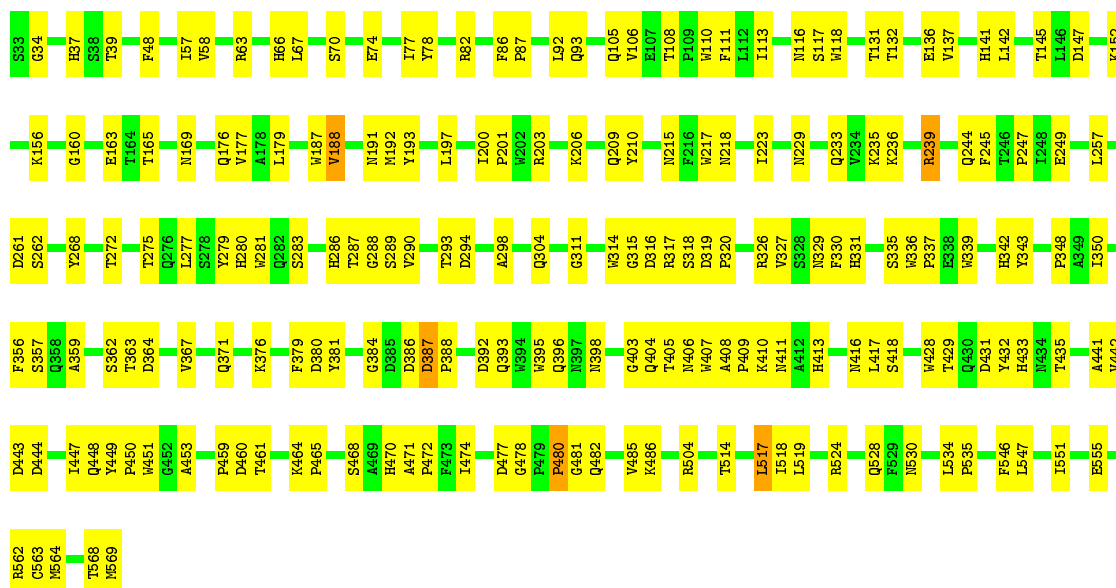
- Molecule 1: VP2

Chain 7:  64% 36%



- Molecule 1: VP2

Chain 0:  64% 36%



## 4 Experimental information

Property	Value	Source
Reconstruction method	SINGLE PARTICLE	Depositor
Imposed symmetry	POINT, Not provided	Depositor
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 ( $e^-/\text{\AA}^2$ )	60	Depositor
Minimum defocus (nm)	Not provided	Depositor
Maximum defocus (nm)	Not provided	Depositor
Magnification	Not provided	Depositor
Image detector	GATAN K2 SUMMIT (4k x 4k)	Depositor

## 5 Model quality ⓘ

### 5.1 Standard geometry ⓘ

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

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	# $ Z  > 2$	RMSZ	# $ Z  > 2$
1	0	0.49	0/4500	0.60	4/6156 (0.1%)
1	1	0.49	0/4500	0.60	4/6156 (0.1%)
1	2	0.49	0/4500	0.60	4/6156 (0.1%)
1	3	0.49	0/4500	0.60	4/6156 (0.1%)
1	4	0.49	0/4500	0.60	4/6156 (0.1%)
1	5	0.49	0/4500	0.60	4/6156 (0.1%)
1	6	0.49	0/4500	0.60	4/6156 (0.1%)
1	7	0.49	0/4500	0.60	4/6156 (0.1%)
1	A	0.49	0/4500	0.60	4/6156 (0.1%)
1	B	0.49	0/4500	0.60	4/6156 (0.1%)
1	C	0.49	0/4500	0.60	4/6156 (0.1%)
1	D	0.49	0/4500	0.60	4/6156 (0.1%)
1	E	0.49	0/4500	0.60	4/6156 (0.1%)
1	F	0.49	0/4500	0.60	4/6156 (0.1%)
1	G	0.49	0/4500	0.60	4/6156 (0.1%)
1	H	0.49	0/4500	0.60	4/6156 (0.1%)
1	I	0.49	0/4500	0.60	4/6156 (0.1%)
1	J	0.49	0/4500	0.60	4/6156 (0.1%)
1	K	0.49	0/4500	0.60	4/6156 (0.1%)
1	L	0.49	0/4500	0.60	4/6156 (0.1%)
1	M	0.49	0/4500	0.60	4/6156 (0.1%)
1	N	0.49	0/4500	0.60	4/6156 (0.1%)
1	O	0.49	0/4500	0.60	4/6156 (0.1%)
1	P	0.49	0/4500	0.60	4/6156 (0.1%)
1	Q	0.49	0/4500	0.60	4/6156 (0.1%)
1	R	0.49	0/4500	0.60	4/6156 (0.1%)
1	S	0.49	0/4500	0.60	4/6156 (0.1%)
1	T	0.49	0/4500	0.60	4/6156 (0.1%)
1	U	0.49	0/4500	0.60	4/6156 (0.1%)
1	V	0.49	0/4500	0.60	4/6156 (0.1%)
1	W	0.49	0/4500	0.60	4/6156 (0.1%)
1	X	0.49	0/4500	0.60	4/6156 (0.1%)
1	Y	0.49	0/4500	0.60	4/6156 (0.1%)
1	Z	0.49	0/4500	0.60	4/6156 (0.1%)

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	# Z  >2	RMSZ	# Z  >2
1	a	0.49	0/4500	0.60	4/6156 (0.1%)
1	b	0.49	0/4500	0.60	4/6156 (0.1%)
1	c	0.49	0/4500	0.60	4/6156 (0.1%)
1	d	0.49	0/4500	0.60	4/6156 (0.1%)
1	e	0.49	0/4500	0.60	4/6156 (0.1%)
1	f	0.49	0/4500	0.60	4/6156 (0.1%)
1	g	0.49	0/4500	0.60	4/6156 (0.1%)
1	h	0.49	0/4500	0.60	4/6156 (0.1%)
1	i	0.49	0/4500	0.60	4/6156 (0.1%)
1	j	0.49	0/4500	0.60	4/6156 (0.1%)
1	k	0.49	0/4500	0.60	4/6156 (0.1%)
1	l	0.49	0/4500	0.60	4/6156 (0.1%)
1	m	0.49	0/4500	0.60	4/6156 (0.1%)
1	n	0.49	0/4500	0.60	4/6156 (0.1%)
1	o	0.49	0/4500	0.60	4/6156 (0.1%)
1	p	0.49	0/4500	0.60	4/6156 (0.1%)
1	q	0.49	0/4500	0.60	4/6156 (0.1%)
1	r	0.49	0/4500	0.60	4/6156 (0.1%)
1	s	0.49	0/4500	0.60	4/6156 (0.1%)
1	t	0.49	0/4500	0.60	4/6156 (0.1%)
1	u	0.49	0/4500	0.60	4/6156 (0.1%)
1	v	0.49	0/4500	0.60	4/6156 (0.1%)
1	w	0.49	0/4500	0.60	4/6156 (0.1%)
1	x	0.49	0/4500	0.60	4/6156 (0.1%)
1	y	0.49	0/4500	0.60	4/6156 (0.1%)
1	z	0.49	0/4500	0.60	4/6156 (0.1%)
All	All	0.49	0/270000	0.60	240/369360 (0.1%)

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 (240) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	Q	293	THR	C-N-CA	-6.01	106.68	121.70
1	O	293	THR	C-N-CA	-6.01	106.68	121.70
1	D	293	THR	C-N-CA	-6.00	106.69	121.70
1	Y	293	THR	C-N-CA	-6.00	106.70	121.70
1	g	293	THR	C-N-CA	-6.00	106.70	121.70
1	P	293	THR	C-N-CA	-6.00	106.70	121.70
1	F	293	THR	C-N-CA	-6.00	106.71	121.70
1	p	293	THR	C-N-CA	-5.99	106.72	121.70
1	7	293	THR	C-N-CA	-5.99	106.72	121.70
1	M	293	THR	C-N-CA	-5.99	106.72	121.70
1	T	293	THR	C-N-CA	-5.99	106.72	121.70
1	2	293	THR	C-N-CA	-5.99	106.72	121.70
1	i	293	THR	C-N-CA	-5.99	106.72	121.70
1	u	293	THR	C-N-CA	-5.99	106.72	121.70
1	A	293	THR	C-N-CA	-5.99	106.73	121.70
1	C	293	THR	C-N-CA	-5.99	106.73	121.70
1	G	293	THR	C-N-CA	-5.99	106.73	121.70
1	L	293	THR	C-N-CA	-5.99	106.73	121.70
1	O	293	THR	C-N-CA	-5.99	106.73	121.70
1	U	293	THR	C-N-CA	-5.99	106.73	121.70
1	V	293	THR	C-N-CA	-5.99	106.73	121.70
1	Z	293	THR	C-N-CA	-5.99	106.73	121.70
1	l	293	THR	C-N-CA	-5.99	106.73	121.70
1	k	293	THR	C-N-CA	-5.99	106.73	121.70
1	s	293	THR	C-N-CA	-5.99	106.73	121.70
1	w	293	THR	C-N-CA	-5.99	106.73	121.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	y	293	THR	C-N-CA	-5.99	106.73	121.70
1	K	293	THR	C-N-CA	-5.99	106.74	121.70
1	X	293	THR	C-N-CA	-5.99	106.74	121.70
1	r	293	THR	C-N-CA	-5.99	106.74	121.70
1	J	293	THR	C-N-CA	-5.98	106.74	121.70
1	B	293	THR	C-N-CA	-5.98	106.74	121.70
1	E	293	THR	C-N-CA	-5.98	106.74	121.70
1	R	293	THR	C-N-CA	-5.98	106.75	121.70
1	W	293	THR	C-N-CA	-5.98	106.74	121.70
1	a	293	THR	C-N-CA	-5.98	106.74	121.70
1	b	293	THR	C-N-CA	-5.98	106.75	121.70
1	c	293	THR	C-N-CA	-5.98	106.74	121.70
1	e	293	THR	C-N-CA	-5.98	106.75	121.70
1	l	293	THR	C-N-CA	-5.98	106.75	121.70
1	n	293	THR	C-N-CA	-5.98	106.75	121.70
1	o	293	THR	C-N-CA	-5.98	106.74	121.70
1	I	293	THR	C-N-CA	-5.98	106.76	121.70
1	N	293	THR	C-N-CA	-5.98	106.75	121.70
1	3	293	THR	C-N-CA	-5.98	106.76	121.70
1	4	293	THR	C-N-CA	-5.98	106.75	121.70
1	5	293	THR	C-N-CA	-5.98	106.75	121.70
1	6	293	THR	C-N-CA	-5.98	106.75	121.70
1	d	293	THR	C-N-CA	-5.98	106.75	121.70
1	f	293	THR	C-N-CA	-5.98	106.76	121.70
1	j	293	THR	C-N-CA	-5.98	106.75	121.70
1	q	293	THR	C-N-CA	-5.98	106.75	121.70
1	t	293	THR	C-N-CA	-5.98	106.76	121.70
1	v	293	THR	C-N-CA	-5.98	106.75	121.70
1	z	293	THR	C-N-CA	-5.98	106.75	121.70
1	H	293	THR	C-N-CA	-5.97	106.77	121.70
1	S	293	THR	C-N-CA	-5.97	106.77	121.70
1	h	293	THR	C-N-CA	-5.97	106.77	121.70
1	m	293	THR	C-N-CA	-5.97	106.77	121.70
1	x	293	THR	C-N-CA	-5.97	106.77	121.70
1	t	517	LEU	CA-CB-CG	5.61	128.20	115.30
1	I	517	LEU	CA-CB-CG	5.60	128.19	115.30
1	3	517	LEU	CA-CB-CG	5.60	128.19	115.30
1	f	517	LEU	CA-CB-CG	5.60	128.19	115.30
1	U	517	LEU	CA-CB-CG	5.60	128.18	115.30
1	j	517	LEU	CA-CB-CG	5.60	128.18	115.30
1	Y	517	LEU	CA-CB-CG	5.60	128.17	115.30
1	Z	517	LEU	CA-CB-CG	5.60	128.17	115.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	0	517	LEU	CA-CB-CG	5.60	128.17	115.30
1	B	517	LEU	CA-CB-CG	5.59	128.17	115.30
1	C	517	LEU	CA-CB-CG	5.59	128.17	115.30
1	F	517	LEU	CA-CB-CG	5.59	128.17	115.30
1	S	517	LEU	CA-CB-CG	5.59	128.17	115.30
1	2	517	LEU	CA-CB-CG	5.59	128.17	115.30
1	D	517	LEU	CA-CB-CG	5.59	128.16	115.30
1	K	517	LEU	CA-CB-CG	5.59	128.16	115.30
1	P	517	LEU	CA-CB-CG	5.59	128.16	115.30
1	T	517	LEU	CA-CB-CG	5.59	128.16	115.30
1	X	517	LEU	CA-CB-CG	5.59	128.16	115.30
1	i	517	LEU	CA-CB-CG	5.59	128.16	115.30
1	r	517	LEU	CA-CB-CG	5.59	128.16	115.30
1	z	517	LEU	CA-CB-CG	5.59	128.16	115.30
1	5	517	LEU	CA-CB-CG	5.59	128.15	115.30
1	q	517	LEU	CA-CB-CG	5.59	128.15	115.30
1	M	517	LEU	CA-CB-CG	5.59	128.15	115.30
1	p	517	LEU	CA-CB-CG	5.59	128.15	115.30
1	7	517	LEU	CA-CB-CG	5.59	128.15	115.30
1	R	517	LEU	CA-CB-CG	5.58	128.15	115.30
1	g	517	LEU	CA-CB-CG	5.58	128.15	115.30
1	l	517	LEU	CA-CB-CG	5.58	128.15	115.30
1	A	517	LEU	CA-CB-CG	5.58	128.14	115.30
1	G	517	LEU	CA-CB-CG	5.58	128.14	115.30
1	4	517	LEU	CA-CB-CG	5.58	128.14	115.30
1	u	517	LEU	CA-CB-CG	5.58	128.14	115.30
1	v	517	LEU	CA-CB-CG	5.58	128.14	115.30
1	E	517	LEU	CA-CB-CG	5.58	128.14	115.30
1	J	517	LEU	CA-CB-CG	5.58	128.14	115.30
1	N	517	LEU	CA-CB-CG	5.58	128.14	115.30
1	O	517	LEU	CA-CB-CG	5.58	128.14	115.30
1	W	517	LEU	CA-CB-CG	5.58	128.14	115.30
1	6	517	LEU	CA-CB-CG	5.58	128.14	115.30
1	a	517	LEU	CA-CB-CG	5.58	128.14	115.30
1	c	517	LEU	CA-CB-CG	5.58	128.14	115.30
1	d	517	LEU	CA-CB-CG	5.58	128.14	115.30
1	k	517	LEU	CA-CB-CG	5.58	128.14	115.30
1	w	517	LEU	CA-CB-CG	5.58	128.14	115.30
1	Q	517	LEU	CA-CB-CG	5.58	128.13	115.30
1	V	517	LEU	CA-CB-CG	5.58	128.13	115.30
1	s	517	LEU	CA-CB-CG	5.58	128.13	115.30
1	H	517	LEU	CA-CB-CG	5.58	128.12	115.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	h	517	LEU	CA-CB-CG	5.58	128.12	115.30
1	m	517	LEU	CA-CB-CG	5.58	128.12	115.30
1	o	517	LEU	CA-CB-CG	5.58	128.12	115.30
1	x	517	LEU	CA-CB-CG	5.58	128.12	115.30
1	L	517	LEU	CA-CB-CG	5.57	128.11	115.30
1	l	517	LEU	CA-CB-CG	5.57	128.11	115.30
1	b	517	LEU	CA-CB-CG	5.57	128.11	115.30
1	e	517	LEU	CA-CB-CG	5.57	128.11	115.30
1	n	517	LEU	CA-CB-CG	5.57	128.11	115.30
1	y	517	LEU	CA-CB-CG	5.57	128.11	115.30
1	G	337	PRO	N-CA-C	-5.43	97.98	112.10
1	S	337	PRO	N-CA-C	-5.43	97.98	112.10
1	4	337	PRO	N-CA-C	-5.43	97.98	112.10
1	j	337	PRO	N-CA-C	-5.43	97.98	112.10
1	v	337	PRO	N-CA-C	-5.43	97.98	112.10
1	x	337	PRO	N-CA-C	-5.43	97.98	112.10
1	z	337	PRO	N-CA-C	-5.43	97.98	112.10
1	C	337	PRO	N-CA-C	-5.43	97.98	112.10
1	K	337	PRO	N-CA-C	-5.42	98.00	112.10
1	V	337	PRO	N-CA-C	-5.42	98.00	112.10
1	2	337	PRO	N-CA-C	-5.42	98.00	112.10
1	5	337	PRO	N-CA-C	-5.42	98.00	112.10
1	g	337	PRO	N-CA-C	-5.42	97.99	112.10
1	h	337	PRO	N-CA-C	-5.42	98.00	112.10
1	l	337	PRO	N-CA-C	-5.42	97.99	112.10
1	m	337	PRO	N-CA-C	-5.42	98.00	112.10
1	q	337	PRO	N-CA-C	-5.42	98.00	112.10
1	O	337	PRO	N-CA-C	-5.42	98.01	112.10
1	T	337	PRO	N-CA-C	-5.42	98.01	112.10
1	e	337	PRO	N-CA-C	-5.42	98.00	112.10
1	i	337	PRO	N-CA-C	-5.42	98.01	112.10
1	u	337	PRO	N-CA-C	-5.42	98.01	112.10
1	B	337	PRO	N-CA-C	-5.42	98.01	112.10
1	a	337	PRO	N-CA-C	-5.42	98.01	112.10
1	b	337	PRO	N-CA-C	-5.42	98.01	112.10
1	c	337	PRO	N-CA-C	-5.42	98.01	112.10
1	N	337	PRO	N-CA-C	-5.42	98.01	112.10
1	W	337	PRO	N-CA-C	-5.42	98.01	112.10
1	w	337	PRO	N-CA-C	-5.42	98.01	112.10
1	7	337	PRO	N-CA-C	-5.42	98.01	112.10
1	A	337	PRO	N-CA-C	-5.42	98.02	112.10
1	0	337	PRO	N-CA-C	-5.42	98.02	112.10

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	D	337	PRO	N-CA-C	-5.41	98.03	112.10
1	R	337	PRO	N-CA-C	-5.41	98.03	112.10
1	X	337	PRO	N-CA-C	-5.41	98.03	112.10
1	k	337	PRO	N-CA-C	-5.41	98.02	112.10
1	r	337	PRO	N-CA-C	-5.41	98.03	112.10
1	y	337	PRO	N-CA-C	-5.41	98.03	112.10
1	H	337	PRO	N-CA-C	-5.41	98.03	112.10
1	L	337	PRO	N-CA-C	-5.41	98.03	112.10
1	o	337	PRO	N-CA-C	-5.41	98.03	112.10
1	F	337	PRO	N-CA-C	-5.41	98.03	112.10
1	I	337	PRO	N-CA-C	-5.41	98.03	112.10
1	1	337	PRO	N-CA-C	-5.41	98.03	112.10
1	3	337	PRO	N-CA-C	-5.41	98.03	112.10
1	f	337	PRO	N-CA-C	-5.41	98.03	112.10
1	t	337	PRO	N-CA-C	-5.41	98.03	112.10
1	J	337	PRO	N-CA-C	-5.41	98.04	112.10
1	M	337	PRO	N-CA-C	-5.41	98.04	112.10
1	P	337	PRO	N-CA-C	-5.41	98.04	112.10
1	6	337	PRO	N-CA-C	-5.41	98.04	112.10
1	d	337	PRO	N-CA-C	-5.41	98.04	112.10
1	s	337	PRO	N-CA-C	-5.41	98.04	112.10
1	U	337	PRO	N-CA-C	-5.41	98.04	112.10
1	p	337	PRO	N-CA-C	-5.41	98.04	112.10
1	Y	337	PRO	N-CA-C	-5.41	98.05	112.10
1	Z	337	PRO	N-CA-C	-5.41	98.05	112.10
1	n	337	PRO	N-CA-C	-5.41	98.05	112.10
1	Q	337	PRO	N-CA-C	-5.40	98.05	112.10
1	E	337	PRO	N-CA-C	-5.40	98.07	112.10
1	G	429	THR	N-CA-C	5.38	125.53	111.00
1	X	429	THR	N-CA-C	5.38	125.53	111.00
1	4	429	THR	N-CA-C	5.38	125.53	111.00
1	j	429	THR	N-CA-C	5.38	125.53	111.00
1	r	429	THR	N-CA-C	5.38	125.53	111.00
1	v	429	THR	N-CA-C	5.38	125.53	111.00
1	K	429	THR	N-CA-C	5.38	125.52	111.00
1	U	429	THR	N-CA-C	5.38	125.52	111.00
1	7	429	THR	N-CA-C	5.38	125.52	111.00
1	I	429	THR	N-CA-C	5.38	125.52	111.00
1	3	429	THR	N-CA-C	5.38	125.52	111.00
1	b	429	THR	N-CA-C	5.38	125.51	111.00
1	f	429	THR	N-CA-C	5.38	125.52	111.00
1	i	429	THR	N-CA-C	5.38	125.52	111.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	t	429	THR	N-CA-C	5.38	125.52	111.00
1	u	429	THR	N-CA-C	5.38	125.52	111.00
1	6	429	THR	N-CA-C	5.38	125.51	111.00
1	d	429	THR	N-CA-C	5.38	125.51	111.00
1	T	429	THR	N-CA-C	5.37	125.51	111.00
1	D	429	THR	N-CA-C	5.37	125.50	111.00
1	F	429	THR	N-CA-C	5.37	125.50	111.00
1	H	429	THR	N-CA-C	5.37	125.50	111.00
1	L	429	THR	N-CA-C	5.37	125.50	111.00
1	N	429	THR	N-CA-C	5.37	125.50	111.00
1	P	429	THR	N-CA-C	5.37	125.50	111.00
1	l	429	THR	N-CA-C	5.37	125.50	111.00
1	a	429	THR	N-CA-C	5.37	125.50	111.00
1	c	429	THR	N-CA-C	5.37	125.50	111.00
1	o	429	THR	N-CA-C	5.37	125.50	111.00
1	x	429	THR	N-CA-C	5.37	125.50	111.00
1	y	429	THR	N-CA-C	5.37	125.50	111.00
1	O	429	THR	N-CA-C	5.37	125.50	111.00
1	V	429	THR	N-CA-C	5.37	125.50	111.00
1	5	429	THR	N-CA-C	5.37	125.49	111.00
1	q	429	THR	N-CA-C	5.37	125.49	111.00
1	s	429	THR	N-CA-C	5.37	125.50	111.00
1	S	429	THR	N-CA-C	5.37	125.49	111.00
1	Y	429	THR	N-CA-C	5.37	125.49	111.00
1	Z	429	THR	N-CA-C	5.37	125.49	111.00
1	A	429	THR	N-CA-C	5.37	125.49	111.00
1	E	429	THR	N-CA-C	5.37	125.48	111.00
1	g	429	THR	N-CA-C	5.37	125.48	111.00
1	l	429	THR	N-CA-C	5.37	125.48	111.00
1	p	429	THR	N-CA-C	5.37	125.48	111.00
1	z	429	THR	N-CA-C	5.37	125.49	111.00
1	Q	429	THR	N-CA-C	5.36	125.48	111.00
1	R	429	THR	N-CA-C	5.36	125.48	111.00
1	h	429	THR	N-CA-C	5.36	125.48	111.00
1	m	429	THR	N-CA-C	5.36	125.48	111.00
1	n	429	THR	N-CA-C	5.36	125.48	111.00
1	B	429	THR	N-CA-C	5.36	125.48	111.00
1	J	429	THR	N-CA-C	5.36	125.48	111.00
1	M	429	THR	N-CA-C	5.36	125.48	111.00
1	W	429	THR	N-CA-C	5.36	125.47	111.00
1	0	429	THR	N-CA-C	5.36	125.47	111.00
1	e	429	THR	N-CA-C	5.36	125.47	111.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	2	429	THR	N-CA-C	5.36	125.46	111.00
1	C	429	THR	N-CA-C	5.35	125.46	111.00
1	k	429	THR	N-CA-C	5.35	125.44	111.00
1	w	429	THR	N-CA-C	5.35	125.44	111.00

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
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

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Mol	Chain	Res	Type	Group
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

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	223	0
1	1	4353	0	4079	216	0
1	2	4353	0	4079	221	0
1	3	4353	0	4079	218	0
1	4	4353	0	4079	215	0
1	5	4353	0	4079	218	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	6	4353	0	4079	216	0
1	7	4353	0	4079	221	0
1	A	4353	0	4079	297	0
1	B	4353	0	4079	307	0
1	C	4353	0	4079	310	0
1	D	4353	0	4079	307	0
1	E	4353	0	4079	307	0
1	F	4353	0	4079	304	0
1	G	4353	0	4079	309	0
1	H	4353	0	4079	305	0
1	I	4353	0	4079	306	0
1	J	4353	0	4079	305	0
1	K	4353	0	4079	314	0
1	L	4353	0	4079	309	0
1	M	4353	0	4079	306	0
1	N	4353	0	4079	308	0
1	O	4353	0	4079	309	0
1	P	4353	0	4079	306	0
1	Q	4353	0	4079	302	0
1	R	4353	0	4079	270	0
1	S	4353	0	4079	274	0
1	T	4353	0	4079	304	0
1	U	4353	0	4079	303	0
1	V	4353	0	4079	312	0
1	W	4353	0	4079	304	0
1	X	4353	0	4079	300	0
1	Y	4353	0	4079	309	0
1	Z	4353	0	4079	307	0
1	a	4353	0	4079	0	0
1	b	4353	0	4079	0	0
1	c	4353	0	4079	0	0
1	d	4353	0	4079	0	0
1	e	4353	0	4079	0	0
1	f	4353	0	4079	0	0
1	g	4353	0	4079	0	0
1	h	4353	0	4079	0	0
1	i	4353	0	4079	0	0
1	j	4353	0	4079	0	0
1	k	4353	0	4079	0	0
1	l	4353	0	4079	0	0
1	m	4353	0	4079	0	0
1	n	4353	0	4079	0	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	o	4353	0	4079	0	0
1	p	4353	0	4079	0	0
1	q	4353	0	4079	0	0
1	r	4353	0	4079	0	0
1	s	4353	0	4079	0	0
1	t	4353	0	4079	0	0
1	u	4353	0	4079	0	0
1	v	4353	0	4079	0	0
1	w	4353	0	4079	0	0
1	x	4353	0	4079	0	0
1	y	4353	0	4079	0	0
1	z	4353	0	4079	0	0
All	All	261180	0	244740	7092	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 14.

All (7092) 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)
1:3:272:THR:HG22	1:3:474:ILE:O	1.39	1.23
1:S:272:THR:HG22	1:S:474:ILE:O	1.39	1.23
1:F:272:THR:HG22	1:F:474:ILE:O	1.40	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:G:272:THR:HG22	1:G:474:ILE:O	1.40	1.22
1:I:272:THR:HG22	1:I:474:ILE:O	1.39	1.22
1:O:272:THR:HG22	1:O:474:ILE:O	1.39	1.22
1:L:272:THR:HG22	1:L:474:ILE:O	1.39	1.22
1:P:272:THR:HG22	1:P:474:ILE:O	1.39	1.22
1:T:272:THR:HG22	1:T:474:ILE:O	1.39	1.21
1:V:272:THR:HG22	1:V: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:A:272:THR:HG22	1:A: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
1:1:272:THR:HG22	1:1:474:ILE:O	1.39	1.20

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:E:272:THR:HG22	1:E:474:ILE:O	1.39	1.19
1:D:272:THR:HG22	1:D:474:ILE:O	1.39	1.19
1:N:272:THR:HG22	1:N:474:ILE:O	1.40	1.18
1:J:272:THR:HG22	1:J: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
1:4:272:THR:HG22	1:4:474: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:D:116:ASN:O	1:D:191:ASN:ND2	1.97	0.98
1:M:116:ASN:O	1:M: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: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:Y:116:ASN:O	1:Y:191:ASN:ND2	1.97	0.98
1:Z:116:ASN:O	1:Z:191:ASN:ND2	1.97	0.98
1:O:116:ASN:O	1:O:191:ASN:ND2	1.97	0.98
1:U:116:ASN:O	1:U:191:ASN:ND2	1.97	0.98
1:7:116:ASN:O	1:7:191: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
1:X:116:ASN:O	1:X:191:ASN:ND2	1.97	0.98
1:I:116:ASN:O	1:I:191:ASN:ND2	1.97	0.98
1:4:116:ASN:O	1:4:191:ASN:ND2	1.97	0.98
1:A:116:ASN:O	1:A:191:ASN:ND2	1.97	0.98
1:J:116:ASN:O	1:J:191:ASN:ND2	1.97	0.98
1:0:116:ASN:O	1:0:191: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: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: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:T:116:ASN:O	1:T: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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:116:ASN:O	1:G:191:ASN:ND2	1.97	0.97
1:3:116:ASN:O	1:3:191:ASN:ND2	1.97	0.97
1:B:116:ASN:O	1:B:191:ASN:ND2	1.97	0.97
1:5:116:ASN:O	1:5:191:ASN:ND2	1.97	0.96
1:L:116:ASN:O	1:L:191:ASN:ND2	1.97	0.96
1:6:116:ASN:O	1:6:191:ASN:ND2	1.97	0.96
1:6:335:SER:H	1:6:435:THR:HG22	1.32	0.95
1:G:335:SER:H	1:G: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:T:335:SER:H	1:T:435:THR:HG22	1.32	0.94
1:A:335:SER:H	1:A: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:Q:335:SER:H	1:Q:435:THR:HG22	1.32	0.94
1:B:335:SER:H	1:B:435:THR:HG22	1.32	0.94
1:F:335:SER:H	1:F: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: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: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
1:0:335:SER:H	1:0:435:THR:HG22	1.32	0.93
1:N:335:SER:H	1:N:435:THR:HG22	1.32	0.93
1:7:335:SER:H	1:7:435:THR:HG22	1.32	0.93
1:R:335:SER:H	1:R:435:THR:HG22	1.32	0.93
1:3:335:SER:H	1:3:435:THR:HG22	1.32	0.93
1:K:335:SER:H	1:K: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
1:5:335:SER:H	1:5:435:THR:HG22	1.32	0.92
1:W:335:SER:H	1:W:435:THR:HG22	1.32	0.92
1:2:335:SER:H	1:2:435:THR:HG22	1.32	0.92
1:7:272:THR:CG2	1:7:474:ILE:O	2.21	0.89

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
1:5:272:THR:CG2	1:5:474: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:Y:272:THR:CG2	1:Y:474:ILE:O	2.21	0.89
1:2:272:THR:CG2	1:2:474:ILE:O	2.21	0.89
1:Z:272:THR:CG2	1:Z: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
1:B:272:THR:CG2	1:B: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
1:0:272:THR:CG2	1:0:474:ILE:O	2.21	0.89
1:C:272:THR:CG2	1:C:474:ILE:O	2.21	0.89
1:F:272:THR:CG2	1:F: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
1:1:272: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:X:272:THR:CG2	1:X:474:ILE:O	2.21	0.88
1:E:272:THR:CG2	1:E:474:ILE:O	2.21	0.88
1:M:272:THR:CG2	1:M: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: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: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: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:I:200:ILE:HD11	1:I:203:ARG:HG3	1.60	0.84

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:O:200:ILE:HD11	1:O: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
1:2:200: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:L:200:ILE:HD11	1:L: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:J:200:ILE:HD11	1:J:203:ARG:HG3	1.60	0.83
1:U:200:ILE:HD11	1:U:203:ARG:HG3	1.60	0.83
1:M:200:ILE:HD11	1:M:203:ARG:HG3	1.60	0.83
1:D:200:ILE:HD11	1:D:203:ARG:HG3	1.60	0.83
1:H:200:ILE:HD11	1:H:203:ARG:HG3	1.60	0.83
1:V:200:ILE:HD11	1:V: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
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
1:7:200:ILE:HD11	1:7:203:ARG:HG3	1.60	0.82
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
1:1:200:ILE:HD11	1:1:203:ARG:HG3	1.60	0.81
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:D:283:SER:H	1:D:286:HIS:HD2	1.30	0.79
1:E:283:SER:H	1:E:286:HIS:HD2	1.30	0.79
1:0:283:SER:H	1:0:286:HIS:HD2	1.30	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	1.31	0.79
1:P:283:SER:H	1:P:286:HIS:HD2	1.30	0.79
1:R:431:ASP:HB3	1:R:433:HIS:CD2	2.18	0.79
1:Y:431:ASP:HB3	1:Y:433:HIS:CD2	2.18	0.79
1:G:283:SER:H	1:G:286:HIS:HD2	1.30	0.79
1:O:431:ASP:HB3	1:O:433:HIS:CD2	2.18	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
1:1:431:ASP:HB3	1:1:433:HIS:CD2	2.18	0.79
1:H:431:ASP:HB3	1:H:433:HIS:CD2	2.18	0.79
1:I:431:ASP:HB3	1:I:433:HIS:CD2	2.18	0.79
1:K:431:ASP:HB3	1:K:433:HIS:CD2	2.18	0.79
1:Z:431:ASP:HB3	1:Z:433:HIS:CD2	2.18	0.79
1:D:431:ASP:HB3	1:D:433:HIS:CD2	2.18	0.79
1:K:283:SER:H	1:K:286:HIS:HD2	1.30	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: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:E:431:ASP:HB3	1:E:433:HIS:CD2	2.18	0.79
1:W:431:ASP:HB3	1:W:433:HIS:CD2	2.18	0.79
1:O:283:SER:H	1:O:286:HIS:HD2	1.30	0.79
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:X:283:SER:H	1:X:286:HIS:HD2	1.30	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: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:Q:431:ASP:HB3	1:Q:433:HIS:CD2	2.18	0.78
1:6:431:ASP:HB3	1:6:433: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
1:0:431:ASP:HB3	1:0:433:HIS:CD2	2.18	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: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:W:335:SER:OG	1:W:406:ASN:ND2	2.17	0.78
1:2:335:SER:OG	1:2:406:ASN:ND2	2.17	0.78
1:A:283:SER:H	1:A:286:HIS:HD2	1.30	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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: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:T:335:SER:OG	1:T:406:ASN:ND2	2.17	0.78
1:Z:283:SER:H	1:Z:286:HIS:HD2	1.30	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: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
1:7:283:SER:H	1:7:286:HIS:HD2	1.31	0.78
1:F:283:SER:H	1:F: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:R:283:SER:H	1:R: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:Y:283:SER:H	1:Y:286:HIS:HD2	1.30	0.78
1:0:335:SER:OG	1:0:406: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:335:SER:OG	1:V:406:ASN:ND2	2.17	0.77
1:G:335:SER:OG	1:G:406:ASN:ND2	2.17	0.77
1:U:335:SER:OG	1:U:406:ASN:ND2	2.17	0.77
1:Z:335:SER:OG	1:Z:406:ASN:ND2	2.17	0.77
1:4:335:SER:OG	1:4:406:ASN:ND2	2.17	0.77
1:7:335:SER:OG	1:7:406:ASN:ND2	2.17	0.77
1:B:283:SER:H	1:B:286:HIS:HD2	1.30	0.77
1:B:287:THR:HG23	1:B:569:MET:HG2	1.67	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:Q:283:SER:H	1:Q:286:HIS:HD2	1.30	0.77
1:R:287:THR:HG23	1:R:569:MET:HG2	1.67	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
1:5:283:SER:H	1:5:286:HIS:HD2	1.30	0.77
1:K:287:THR:HG23	1:K:569:MET:HG2	1.67	0.77
1:W:287:THR:HG23	1:W:569:MET:HG2	1.67	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:K:335:SER:OG	1:K:406:ASN:ND2	2.17	0.77
1:P:287:THR:HG23	1:P:569:MET:HG2	1.67	0.77
1:T:287:THR:HG23	1:T:569:MET:HG2	1.67	0.77
1:Y:287:THR:HG23	1:Y: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: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
1:4:431: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:X:287:THR:HG23	1:X:569:MET:HG2	1.67	0.77
1:4:287:THR:HG23	1:4:569:MET:HG2	1.67	0.77
1:H:335:SER:OG	1:H:406:ASN:ND2	2.17	0.77
1:X:335:SER:OG	1:X:406:ASN:ND2	2.17	0.77
1:I:287:THR:HG23	1:I:569:MET:HG2	1.67	0.77
1:O:217:TRP:CE2	1:O:239:ARG:HD2	2.20	0.77
1:2:283:SER:H	1:2:286:HIS:HD2	1.30	0.77
1:J:287:THR:HG23	1:J:569:MET:HG2	1.67	0.77
1:L:217:TRP:CE2	1:L:239:ARG:HD2	2.20	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
1:Z:217:TRP:CE2	1:Z:239:ARG:HD2	2.20	0.77
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: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:H:447:ILE:HG22	1:H:472:PRO:HG3	1.68	0.76
1:I:217:TRP:CE2	1:I:239:ARG:HD2	2.21	0.76
1:M:447:ILE:HG22	1:M:472:PRO:HG3	1.68	0.76
1:T:217:TRP:CE2	1:T:239:ARG:HD2	2.20	0.76
1:X:217:TRP:CE2	1:X:239:ARG:HD2	2.20	0.76
1:Y:217:TRP:CE2	1:Y:239:ARG:HD2	2.20	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:F:217:TRP:CE2	1:F:239:ARG:HD2	2.21	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:217:TRP:CE2	1:G:239:ARG:HD2	2.21	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:Q:447:ILE:HG22	1:Q:472:PRO:HG3	1.68	0.76
1:V:217:TRP:CE2	1:V:239:ARG:HD2	2.20	0.76
1:7:447:ILE:HG22	1:7:472:PRO:HG3	1.68	0.76
1:A:39:THR:HG21	1:A:262:SER:HB3	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	2.20	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
1:5:217: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	2.21	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: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:U:39:THR:HG21	1:U:262:SER:HB3	1.68	0.76
1:Z:447:ILE:HG22	1:Z:472:PRO:HG3	1.68	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: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: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
1:7:287:THR:HG23	1:7:569:MET:HG2	1.67	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
1:0:39:THR:HG21	1:0:262:SER:HB3	1.68	0.76
1:B:39:THR:HG21	1:B:262:SER:HB3	1.68	0.76
1:P:217:TRP:CE2	1:P:239:ARG:HD2	2.20	0.76
1:S:39:THR:HG21	1:S:262:SER:HB3	1.68	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
1:1:447:ILE:HG22	1:1:472:PRO:HG3	1.68	0.76
1:C:39:THR:HG21	1:C:262:SER:HB3	1.68	0.76
1:D:287:THR:HG23	1:D:569:MET:HG2	1.67	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:Z:39:THR:HG21	1:Z: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: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:N:39:THR:HG21	1:N:262:SER:HB3	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
1:3:39:THR:HG21	1:3:262:SER:HB3	1.68	0.75
1:Q:39:THR:HG21	1:Q:262:SER:HB3	1.68	0.75
1:V:287:THR:HG23	1:V:569:MET:HG2	1.67	0.75
1:X:447:ILE:HG22	1:X: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:H:287:THR:HG23	1:H:569:MET:HG2	1.67	0.75
1:Z:287:THR:HG23	1:Z:569:MET:HG2	1.67	0.75
1:C:447:ILE:HG22	1:C:472:PRO:HG3	1.68	0.75
1:J:217:TRP:CE2	1:J:239:ARG:HD2	2.20	0.75
1:O:287:THR:HG23	1:O:569:MET:HG2	1.67	0.75
1:J:39:THR:HG21	1:J:262:SER:HB3	1.68	0.75
1:W:447:ILE:HG22	1:W:472:PRO:HG3	1.68	0.75
1:G:447:ILE:HG22	1:G:472:PRO:HG3	1.68	0.75
1:O:217:TRP:CE2	1:O:239:ARG:HD2	2.20	0.75
1:2:447:ILE:HG22	1:2:472:PRO:HG3	1.68	0.75
1:6:217:TRP:CE2	1:6:239:ARG:HD2	2.21	0.75
1:6:39:THR:HG21	1:6:262:SER:HB3	1.68	0.75
1:7:217:TRP:CE2	1:7:239:ARG:HD2	2.20	0.75
1:J:447:ILE:HG22	1:J:472:PRO:HG3	1.68	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:O:447:ILE:HG22	1:O:472:PRO:HG3	1.67	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:4:447:ILE:HG22	1:4:472:PRO:HG3	1.68	0.75
1:7:176:GLN:HE21	1:7:486:LYS:HE3	1.52	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
1:3:447: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:B:176:GLN:HE21	1:B:486:LYS:HE3	1.52	0.75
1:F:176:GLN:HE21	1:F:486:LYS:HE3	1.52	0.75
1:L:176:GLN:HE21	1:L:486:LYS:HE3	1.52	0.75
1:K:176:GLN:HE21	1:K:486:LYS:HE3	1.52	0.74
1:M:287:THR:HG23	1:M:569:MET:HG2	1.67	0.74
1:4:217:TRP:CE2	1:4:239:ARG:HD2	2.21	0.74
1:4:176:GLN:HE21	1:4:486:LYS:HE3	1.52	0.74
1:5:176:GLN:HE21	1:5:486:LYS:HE3	1.52	0.74
1:C:176:GLN:HE21	1:C: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:W:39:THR:HG21	1:W:262:SER:HB3	1.68	0.74
1:S:176:GLN:HE21	1:S:486:LYS:HE3	1.52	0.74
1:L:447:ILE:HG22	1:L:472:PRO:HG3	1.68	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:Z:176:GLN:HE21	1:Z:486:LYS:HE3	1.52	0.74
1:5:287:THR:HG23	1:5:569:MET:HG2	1.67	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:Q:176:GLN:HE21	1:Q:486:LYS:HE3	1.52	0.74
1:I:176:GLN:HE21	1:I:486:LYS:HE3	1.52	0.74
1:D:176:GLN:HE21	1:D:486:LYS:HE3	1.52	0.74
1:O:176:GLN:HE21	1:O:486:LYS:HE3	1.52	0.74
1:P:176:GLN:HE21	1:P:486:LYS:HE3	1.52	0.74
1:F:393:GLN:NE2	1:Q:318:SER:OG	2.20	0.74
1:5:447:ILE:HG22	1:5:472:PRO:HG3	1.68	0.74
1:5:39:THR:HG21	1:5:262:SER:HB3	1.68	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
1:6:447:ILE:HG22	1:6:472:PRO:HG3	1.68	0.74
1:D:331:HIS:HE1	1:N:342:HIS:CD2	2.06	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:X:176:GLN:HE21	1:X:486:LYS:HE3	1.52	0.74
1:X:342:HIS:CD2	1:5:331:HIS:HE1	2.06	0.74
1:0:176:GLN:HE21	1:0:486:LYS:HE3	1.52	0.73
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: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:Q:331:HIS:HE1	1:R:342:HIS:CD2	70.29	0.73
1:T:176:GLN:HE21	1:T:486:LYS:HE3	1.52	0.73
1:1:331:HIS:HE1	1:0:342:HIS:CD2	2.06	0.73
1:E:342:HIS:CD2	1:F:331:HIS:HE1	2.06	0.73
1:I:331:HIS:HE1	1:J:342:HIS:CD2	62.26	0.73
1:R:331:HIS:HE1	1:S:342:HIS:CD2	2.07	0.73
1:T:331:HIS:HE1	1:4:342:HIS:CD2	2.06	0.73
1:I:342:HIS:O	1:3:411:ASN:ND2	190.31	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	94.97	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:Y:342:HIS:CD2	1:7:331:HIS:HE1	181.20	0.73
1:B:342:HIS:CD2	1:6:331:HIS:HE1	217.35	0.73
1:A:331:HIS:HE1	1:6:342:HIS:CD2	179.15	0.73
1:7:39:THR:HG21	1:7:262:SER:HB3	1.68	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:F:411:ASN:ND2	1:T:342:HIS:O	155.20	0.73
1:G:176:GLN:HE21	1:G:486:LYS:HE3	1.52	0.73
1:G:342:HIS:CD2	1:O:331:HIS:HE1	178.63	0.73
1:O:331:HIS:HE1	1:P:342:HIS:CD2	62.25	0.73
1:N:411:ASN:ND2	1:P:342:HIS:O	2.22	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	70.25	0.73
1:W:331:HIS:HE1	1:Z:342:HIS:CD2	82.78	0.73
1:C:411:ASN:ND2	1:2:342:HIS:O	2.22	0.73
1:2:176:GLN:HE21	1:2:486:LYS:HE3	1.52	0.73
1:A:411:ASN:ND2	1:6:342:HIS:O	189.08	0.73
1:B:411:ASN:ND2	1:J:342:HIS:O	2.22	0.73
1:C:342:HIS:O	1:E:411:ASN:ND2	121.88	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:331:HIS:HE1	1:L:342:HIS:CD2	2.07	0.73
1:K:331:HIS:HE1	1:L:342:HIS:CD2	62.26	0.73
1:R:342:HIS:CD2	1:U:331:HIS:HE1	2.06	0.73
1:S:70:SER:O	1:S:504:ARG:NH2	2.22	0.73
1:R:342:HIS:O	1:U:411:ASN:ND2	2.22	0.73
1:V:70:SER:O	1:V:504:ARG:NH2	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:I:342:HIS:CD2	1:3:331:HIS:HE1	181.21	0.73
1:Y:342:HIS:O	1:7:411:ASN:ND2	190.30	0.73
1:G:331:HIS:HE1	1:I:342:HIS:CD2	2.07	0.73
1:J:411:ASN:ND2	1:3:342:HIS:O	139.56	0.73
1:H:411:ASN:ND2	1:O:342:HIS:O	213.65	0.73
1:D:342:HIS:CD2	1:P:331:HIS:HE1	2.07	0.73
1:P:70:SER:O	1:P:504:ARG:NH2	2.22	0.73
1:R:70:SER:O	1:R:504:ARG:NH2	2.22	0.73
1:Q:342:HIS:CD2	1:S:331:HIS:HE1	92.18	0.73
1:F:331:HIS:HE1	1:T:342:HIS:CD2	149.05	0.73
1:T:342:HIS:CD2	1:V:331:HIS:HE1	112.36	0.73
1:W:70:SER:O	1:W:504:ARG:NH2	2.22	0.73
1:C:331:HIS:HE1	1:2:342:HIS:CD2	2.07	0.73
1:Z:411:ASN:ND2	1:7:342:HIS:O	155.18	0.73
1:A:70:SER:O	1:A:504:ARG:NH2	2.22	0.73
1:J:70:SER:O	1:J:504:ARG:NH2	2.22	0.73
1:K:342:HIS:O	1:M:411:ASN:ND2	137.64	0.73
1:N:70:SER:O	1:N:504:ARG:NH2	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
1:6:70:SER:O	1:6:504:ARG:NH2	2.22	0.73
1:C:70:SER:O	1:C:504:ARG:NH2	2.22	0.73
1:C:331:HIS:HE1	1:D:342:HIS:CD2	92.17	0.73
1:D:70:SER:O	1:D:504:ARG:NH2	2.22	0.73
1:E:70:SER:O	1:E:504:ARG:NH2	2.22	0.73
1:F:342:HIS:O	1:4:411:ASN:ND2	140.12	0.73
1:F:371:GLN:NE2	1:Q:416:ASN:OD1	2.22	0.73
1:F:70:SER:O	1:F:504:ARG:NH2	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:U:70:SER:O	1:U:504:ARG:NH2	2.22	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:X:342:HIS:O	1:Z:411:ASN:ND2	119.34	0.73
1:V:411:ASN:ND2	1:5:342:HIS:O	2.22	0.73
1:C:342:HIS:CD2	1:E:331:HIS:HE1	117.31	0.73
1:M:176:GLN:HE21	1:M: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	70.25	0.73
1:T:411:ASN:ND2	1:4:342:HIS:O	2.22	0.73
1:W:411:ASN:ND2	1:Y:342:HIS:O	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:H:342:HIS:O	1:Y:411:ASN:ND2	2.21	0.73
1:I:411:ASN:ND2	1:J:342:HIS:O	64.60	0.73
1:K:342:HIS:O	1:O:411:ASN:ND2	2.22	0.73
1:K:411:ASN:ND2	1:L:342:HIS:O	64.60	0.73
1:J:411:ASN:ND2	1:L:342:HIS:O	2.22	0.73
1:L:70:SER:O	1:L:504:ARG:NH2	2.22	0.73
1:G:342:HIS:O	1:O:411:ASN:ND2	186.17	0.73
1:T:70:SER:O	1:T:504:ARG:NH2	2.22	0.73
1:U:411:ASN:ND2	1:V:342:HIS:O	74.01	0.73
1:W:411:ASN:ND2	1:Z:342:HIS:O	88.24	0.73
1:1:70:SER:O	1:1:504:ARG:NH2	2.22	0.72
1:C:411:ASN:ND2	1:D:342:HIS:O	94.97	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:L:318:SER:OG	1:M:393:GLN:NE2	110.15	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	74.01	0.72
1:7:70:SER:O	1:7:504:ARG:NH2	2.22	0.72
1:A:318:SER:OG	1:G:393:GLN:NE2	2.22	0.72
1:B:342:HIS:O	1:6:411:ASN:ND2	226.86	0.72
1:G:318:SER:OG	1:H:393:GLN:NE2	55.76	0.72
1:N:411:ASN:ND2	1:O:342:HIS:O	74.01	0.72
1:O:411:ASN:ND2	1:P:342:HIS:O	64.60	0.72
1:Q:342:HIS:O	1:S:411:ASN:ND2	94.99	0.72
1:A:342:HIS:CD2	1:B:331:HIS:HE1	62.25	0.72
1:B:342:HIS:CD2	1:L:331:HIS:HE1	2.07	0.72
1:L:411:ASN:ND2	1:M:342:HIS:O	88.29	0.72
1:T:331:HIS:HE1	1:U:342:HIS:CD2	62.26	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:331:HIS:HE1	1:W:342:HIS:CD2	2.07	0.72
1:W:342:HIS:CD2	1:X:331:HIS:HE1	70.25	0.72
1:X:342:HIS:CD2	1:Z:331:HIS:HE1	112.36	0.72
1:K:342:HIS:CD2	1:O:331:HIS:HE1	2.07	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:H:342:HIS:CD2	1:Y:331:HIS:HE1	2.07	0.72
1:J:331:HIS:HE1	1:3:342:HIS:CD2	131.77	0.72
1:F:342:HIS:CD2	1:4:331:HIS:HE1	135.82	0.72
1:G:411:ASN:ND2	1:H:342:HIS:O	74.01	0.72
1:H:411:ASN:ND2	1:W:342:HIS:O	2.22	0.72
1:B:342:HIS:O	1:L:411:ASN:ND2	2.22	0.72
1:N:342:HIS:O	1:P:411:ASN:ND2	24.53	0.72
1:T:411:ASN:ND2	1:U:342:HIS:O	64.60	0.72
1:W:342:HIS:O	1:X:411:ASN:ND2	74.01	0.72
1:Z:70:SER:O	1:Z:504:ARG:NH2	2.22	0.72
1:K:342:HIS:CD2	1:M:331:HIS:HE1	130.59	0.72
1:H:331:HIS:HE1	1:O:342:HIS:CD2	203.12	0.72
1:Y:331:HIS:HE1	1:Z:342:HIS:CD2	70.26	0.72
1:Z:331:HIS:HE1	1:7:342:HIS:CD2	149.04	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
1:3:70:SER:O	1:3:504:ARG:NH2	2.22	0.72
1:A:342:HIS:CD2	1:I:331:HIS:HE1	2.07	0.72
1:A:342:HIS:O	1:B:411:ASN:ND2	64.59	0.72
1:N:342:HIS:CD2	1:P:331:HIS:HE1	24.09	0.72
1:D:411:ASN:ND2	1:N:342:HIS:O	2.22	0.72
1:4:70:SER:O	1:4:504:ARG:NH2	2.22	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:V:342:HIS:O	1:X:411:ASN:ND2	2.22	0.72
1:H:393:GLN:NE2	1:Y:318:SER:OG	2.22	0.72
1:1:411:ASN:ND2	1:O:342:HIS:O	2.22	0.72
1:F:393:GLN:NE2	1:4:318:SER:OG	180.37	0.72
1:Q:411:ASN:ND2	1:R:342:HIS:O	74.05	0.72
1:X:393:GLN:NE2	1:Z:318:SER:OG	92.06	0.72
1:G:331:HIS:HE1	1:H:342:HIS:CD2	70.25	0.71
1:L:331:HIS:HE1	1:M:342:HIS:CD2	85.33	0.71
1:T:342:HIS:O	1:V:411:ASN:ND2	119.34	0.71
1:J:318:SER:OG	1:3:393:GLN:NE2	108.00	0.71
1:K:411:ASN:ND2	1:1:342:HIS:O	2.22	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:X:342:HIS:O	1:5:411:ASN:ND2	2.22	0.71
1:K:318:SER:OG	1:L:393:GLN:NE2	100.14	0.71
1:C:342:HIS:CD2	1:M:331:HIS:HE1	2.07	0.71
1:T:393:GLN:NE2	1:V:318:SER:OG	92.06	0.71
1:A:393:GLN:NE2	1:B:318:SER:OG	100.14	0.71
1:G:318:SER:OG	1:I:393:GLN:NE2	2.24	0.71
1:G:393:GLN:NE2	1:O:318:SER:OG	211.97	0.71
1:B:393:GLN:NE2	1:L:318:SER:OG	2.24	0.71
1:W:318:SER:OG	1:Y:393:GLN:NE2	2.24	0.71
1:W:318:SER:OG	1:Z:393:GLN:NE2	54.01	0.71
1:D:331:HIS:HE1	1:E:342:HIS:CD2	92.17	0.71
1:O:331:HIS:CE1	1:P:342:HIS:CD2	62.72	0.71
1:B:393:GLN:NE2	1:6:318:SER:OG	231.86	0.71
1:I:331:HIS:CE1	1:J:342:HIS:CD2	62.73	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:O:70:SER:O	1:O:504:ARG:NH2	2.22	0.71
1:2:187:TRP:O	1:2:482:GLN:NE2	2.24	0.71
1:T:331:HIS:CE1	1:4:342:HIS:CD2	2.79	0.71
1:C:187:TRP:O	1:C:482:GLN:NE2	2.24	0.71
1:E:342:HIS:CD2	1:F:331:HIS:CE1	2.79	0.71
1:N:342:HIS:CD2	1:P:331:HIS:CE1	23.69	0.71
1:W:331:HIS:CE1	1:Z:342:HIS:CD2	81.89	0.71
1:A:342:HIS:O	1:I:411:ASN:ND2	2.23	0.71
1:I:393:GLN:NE2	1:3:318:SER:OG	172.41	0.71
1:Q:187:TRP:O	1:Q:482:GLN:NE2	2.24	0.71
1:F:318:SER:OG	1:T:393:GLN:NE2	155.81	0.71
1:T:331:HIS:CE1	1:U:342:HIS:CD2	62.73	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:M:342:HIS:CD2	1:2:331:HIS:CE1	2.79	0.71
1:4:187:TRP:O	1:4:482:GLN:NE2	2.24	0.71
1:A:331:HIS:CE1	1:6:342:HIS:CD2	178.31	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:C:331:HIS:CE1	1:D:342:HIS:CD2	92.39	0.71
1:E:342:HIS:CE1	1:F:406:ASN:CG	2.64	0.71
1:J:187:TRP:O	1:J:482:GLN:NE2	2.24	0.71
1:K:187:TRP:O	1:K:482:GLN:NE2	2.24	0.71
1:R:318:SER:OG	1:S:393:GLN:NE2	2.24	0.71
1:Y:187:TRP:O	1:Y:482:GLN:NE2	2.24	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:Z:318:SER:OG	1:7:393:GLN:NE2	155.79	0.71
1:A:342:HIS:CD2	1:B:331:HIS:CE1	62.72	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:F:187:TRP:O	1:F:482:GLN:NE2	2.24	0.71
1:K:318:SER:OG	1:1:393:GLN:NE2	2.24	0.71
1:K:342:HIS:CD2	1:M:331:HIS:CE1	129.83	0.71
1:M:187:TRP:O	1:M:482:GLN:NE2	2.24	0.71
1:H:331:HIS:CE1	1:O:342:HIS:CD2	202.53	0.71
1:S:331:HIS:CE1	1:U:342:HIS:CD2	2.79	0.71
1:Y:318:SER:OG	1:Z:393:GLN:NE2	55.77	0.71
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:A:342:HIS:CD2	1:I:331:HIS:CE1	2.79	0.70
1:H:187:TRP:O	1:H:482:GLN:NE2	2.24	0.70
1:K:342:HIS:CD2	1:0:331:HIS:CE1	2.79	0.70
1:N:393:GLN:NE2	1:P:318:SER:OG	58.49	0.70
1:O:318:SER:OG	1:P:393:GLN:NE2	100.14	0.70
1:V:331:HIS:CE1	1:5:342:HIS:CD2	2.79	0.70
1:Z:331:HIS:CE1	1:7:342:HIS:CD2	148.67	0.70
1:0:187:TRP:O	1:0:482:GLN:NE2	2.24	0.70
1:B:187:TRP:O	1:B:482:GLN:NE2	2.24	0.70
1:I:187:TRP:O	1:I:482:GLN:NE2	2.24	0.70
1:O:187:TRP:O	1:O:482:GLN:NE2	2.24	0.70
1:S:187:TRP:O	1:S:482:GLN:NE2	2.24	0.70
1:Y:331:HIS:CE1	1:Z:342:HIS:CD2	70.48	0.70
1:A:187:TRP:O	1:A:482:GLN:NE2	2.24	0.70
1:B:342:HIS:CD2	1:6:331:HIS:CE1	217.14	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:K:393:GLN:NE2	1:M:318:SER:OG	108.63	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:318:SER:OG	1:U:393:GLN:NE2	100.14	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
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:C:393:GLN:NE2	1:M:318:SER:OG	2.24	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:318:SER:OG	1:E:393:GLN:NE2	95.47	0.70
1:F:524:ARG:NH1	1:F:564:MET:SD	2.65	0.70
1:H:318:SER:OG	1:O:393:GLN:NE2	199.83	0.70
1:L:187:TRP:O	1:L:482:GLN:NE2	2.24	0.70
1:N:318:SER:OG	1:O:393:GLN:NE2	55.75	0.70
1:D:318:SER:OG	1:N:393:GLN:NE2	2.24	0.70
1:Q:524:ARG:NH1	1:Q:564:MET:SD	2.65	0.70
1:Q:331:HIS:CE1	1:R:342:HIS:CD2	70.51	0.70
1:Q:318:SER:OG	1:R:393:GLN:NE2	55.81	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	55.75	0.70
1:X:187:TRP:O	1:X:482:GLN:NE2	2.24	0.70
1:H:342:HIS:CE1	1:Y:406:ASN:CG	2.65	0.70
1:A:524:ARG:NH1	1:A: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:B:318:SER:OG	1:J:393: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: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:T:524:ARG:NH1	1:T:564:MET:SD	2.65	0.70
1:U:524:ARG:NH1	1:U:564:MET:SD	2.65	0.70
1:H:331:HIS:CE1	1:W:342:HIS:CD2	2.79	0.70
1:W:342:HIS:CD2	1:X:331:HIS:CE1	70.47	0.70
1:Y:342:HIS:CD2	1:7:331:HIS:CE1	180.86	0.70
1:X:342:HIS:CE1	1:Z:406:ASN:CG	118.16	0.70
1:A:318:SER:OG	1:6:393:GLN:NE2	156.64	0.70
1:C:524:ARG:NH1	1:C:564:MET:SD	2.65	0.70
1:D:331:HIS:CE1	1:E:342:HIS:CD2	92.39	0.70
1:D:331:HIS:CE1	1:N: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:K:524:ARG:NH1	1:K:564:MET:SD	2.65	0.70
1:C:342:HIS:CD2	1:M:331:HIS:CE1	2.79	0.70
1:M:524:ARG:NH1	1:M:564:MET:SD	2.65	0.70
1:D:406:ASN:CG	1:N:342:HIS:CE1	2.65	0.70
1:Q:406:ASN:CG	1:R:342:HIS:CE1	73.24	0.70
1:Z:524:ARG:NH1	1:Z:564:MET:SD	2.65	0.70
1:5:524:ARG:NH1	1:5:564:MET:SD	2.65	0.70
1:E:82:ARG:NH2	1:E:218:ASN:OD1	2.25	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:524:ARG:NH1	1:G:564:MET:SD	2.65	0.70
1:G:331:HIS:CE1	1:H:342:HIS:CD2	70.47	0.70
1:A:393:GLN:NE2	1:I:318:SER:OG	2.24	0.70
1:N:318:SER:OG	1:P:393:GLN:NE2	2.25	0.70
1:G:342:HIS:CE1	1:O:406:ASN:CG	179.82	0.70
1:N:406:ASN:CG	1:P:342:HIS:CE1	2.65	0.70
1:R:406:ASN:CG	1:S:342:HIS:CE1	2.65	0.70
1:U:187:TRP:O	1:U:482:GLN:NE2	2.24	0.70
1:R:342:HIS:CD2	1:U:331:HIS:CE1	2.79	0.70
1:W:524:ARG:NH1	1:W:564:MET:SD	2.65	0.70
1:Y:524:ARG:NH1	1:Y:564:MET:SD	2.65	0.70
1:K:342:HIS:CE1	1:O:406:ASN:CG	2.65	0.70
1:O:524:ARG:NH1	1:O:564:MET:SD	2.65	0.70
1:I:342:HIS:CD2	1:3:331:HIS:CE1	180.87	0.70
1:7:187:TRP:O	1:7:482:GLN:NE2	2.24	0.70
1:A:342:HIS:CE1	1:B:406:ASN:CG	61.21	0.70
1:C:331:HIS:CE1	1:2:342:HIS:CD2	2.79	0.70
1:C:342:HIS:CD2	1:E:331:HIS:CE1	117.73	0.70
1:F:82:ARG:NH2	1:F:218:ASN:OD1	2.25	0.70
1:K:406:ASN:CG	1:L:342:HIS:CE1	61.22	0.70
1:L:331:HIS:CE1	1:M:342:HIS:CD2	85.67	0.70
1:B:342:HIS:CE1	1:L:406:ASN:CG	2.65	0.70
1:P:187:TRP:O	1:P:482:GLN:NE2	2.24	0.70
1:Q:393:GLN:NE2	1:S:318:SER:OG	95.49	0.70
1:R:342:HIS:CE1	1:U:406:ASN:CG	2.65	0.70
1:R:524:ARG:NH1	1:R:564:MET:SD	2.65	0.70
1:T:82:ARG:NH2	1:T:218:ASN:OD1	2.25	0.70
1:V:342:HIS:CD2	1:X:331:HIS:CE1	2.79	0.70
1:V:406:ASN:CG	1:5:342:HIS:CE1	2.65	0.70
1:V:524:ARG:NH1	1:V:564:MET:SD	2.65	0.70
1:X:524:ARG:NH1	1:X:564:MET:SD	2.65	0.70
1:1:406:ASN:CG	1:O:342:HIS:CE1	2.65	0.70
1:1:331:HIS:CE1	1:O:342:HIS:CD2	2.79	0.70
1:1:524:ARG:NH1	1:1:564:MET:SD	2.65	0.70
1:Y:342:HIS:CE1	1:7:406:ASN:CG	186.48	0.70
1:D:82:ARG:NH2	1:D:218:ASN:OD1	2.25	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:O:406:ASN:CG	1:P:342:HIS:CE1	61.22	0.70
1:P:82:ARG:NH2	1:P:218:ASN:OD1	2.25	0.70
1:D:393:GLN:NE2	1:P:318:SER:OG	2.24	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:F:331:HIS:CE1	1:T:342:HIS:CD2	148.69	0.70
1:W:393:GLN:NE2	1:X:318:SER:OG	55.75	0.70
1:W:406:ASN:CG	1:Y:342:HIS:CE1	2.65	0.70
1:V:342:HIS:CE1	1:X:406:ASN:CG	2.65	0.70
1:Y:406:ASN:CG	1:Z:342:HIS:CE1	73.21	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:D:342:HIS:CD2	1:P:331:HIS:CE1	2.79	0.70
1:C:318:SER:OG	1:D:393:GLN:NE2	95.47	0.70
1:I:82:ARG:NH2	1:I:218:ASN:OD1	2.25	0.70
1:G:406:ASN:CG	1:I:342:HIS:CE1	2.65	0.70
1:I:406:ASN:CG	1:J:342:HIS:CE1	61.22	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:K:342:HIS:CE1	1:M:406:ASN:CG	135.93	0.70
1:H:406:ASN:CG	1:O:342:HIS:CE1	209.14	0.70
1:S:82:ARG:NH2	1:S:218:ASN:OD1	2.25	0.70
1:T:406:ASN:CG	1:4:342:HIS:CE1	2.65	0.70
1:H:406:ASN:CG	1:W:342:HIS:CE1	2.65	0.70
1:W:342:HIS:CE1	1:X:406:ASN:CG	73.20	0.70
1:W:406:ASN:CG	1:Z:342:HIS:CE1	88.77	0.70
1:Y:393:GLN:NE2	1:7:318:SER:OG	172.41	0.69
1:7:524:ARG:NH1	1:7:564:MET:SD	2.65	0.69
1:C:342:HIS:CE1	1:M:406:ASN:CG	2.65	0.69
1:C:406:ASN:CG	1:D:342:HIS:CE1	92.41	0.69
1:E:187:TRP:O	1:E:482:GLN:NE2	2.24	0.69
1:F:406:ASN:CG	1:T:342:HIS:CE1	151.67	0.69
1:H:318:SER:OG	1:W:393:GLN:NE2	2.24	0.69
1:D:342:HIS:CE1	1:P:406:ASN:CG	2.65	0.69
1:Q:342:HIS:CD2	1:S:331:HIS:CE1	92.40	0.69
1:R:393:GLN:NE2	1:U:318:SER:OG	2.24	0.69
1:U:406:ASN:CG	1:V:342:HIS:CE1	73.20	0.69
1:T:342:HIS:CE1	1:V:406:ASN:CG	118.16	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:C:342:HIS:CE1	1:E:406:ASN:CG	117.44	0.69
1:M:342:HIS:CE1	1:2:406:ASN:CG	2.66	0.69
1:N:331:HIS:CE1	1:O:342:HIS:CD2	70.47	0.69
1:N:82:ARG:NH2	1:N:218:ASN:OD1	2.25	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Q:342:HIS:CE1	1:S:406:ASN:CG	92.42	0.69
1:K:331:HIS:CE1	1:1:342:HIS:CD2	2.79	0.69
1:3:82:ARG:NH2	1:3:218:ASN:OD1	2.25	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:C:406:ASN:CG	1:2:342:HIS:CE1	2.65	0.69
1:H:342:HIS:CD2	1:Y:331:HIS:CE1	2.80	0.69
1:G:406:ASN:CG	1:H:342:HIS:CE1	73.20	0.69
1:I:342:HIS:CE1	1:3:406:ASN:CG	186.49	0.69
1:K:82:ARG:NH2	1:K:218:ASN:OD1	2.25	0.69
1:N:406:ASN:CG	1:O:342:HIS:CE1	73.20	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:X:342:HIS:CD2	1:Z:331:HIS:CE1	112.02	0.69
1:K:393:GLN:NE2	1:0:318:SER:OG	2.24	0.69
1:B:524:ARG:NH1	1:B:564:MET:SD	2.65	0.69
1:C:393:GLN:NE2	1:E:318:SER:OG	141.95	0.69
1:D:406:ASN:CG	1:E:342:HIS:CE1	92.41	0.69
1:I:318:SER:OG	1:J:393:GLN:NE2	100.14	0.69
1:J:406:ASN:CG	1:3:342:HIS:CE1	138.28	0.69
1:J:82:ARG:NH2	1:J:218:ASN:OD1	2.25	0.69
1:L:406:ASN:CG	1:M:342:HIS:CE1	84.74	0.69
1:S:406:ASN:CG	1:U:342:HIS:CE1	2.65	0.69
1:T:342:HIS:CD2	1:V:331:HIS:CE1	112.02	0.69
1:T:406:ASN:CG	1:U:342:HIS:CE1	61.22	0.69
1:X:342:HIS:CD2	1:5:331:HIS:CE1	2.79	0.69
1:C:82:ARG:NH2	1:C:218:ASN:OD1	2.25	0.69
1:F:342:HIS:CE1	1:4:406:ASN:CG	133.86	0.69
1:G:331:HIS:CE1	1:I:342:HIS:CD2	2.79	0.69
1:G:342:HIS:CD2	1:O:331:HIS:CE1	178.70	0.69
1:K:406:ASN:CG	1:1:342:HIS:CE1	2.65	0.69
1:K:331:HIS:CE1	1:L:342:HIS:CD2	62.72	0.69
1:U:331:HIS:CE1	1:V:342:HIS:CD2	70.47	0.69
1:X:82:ARG:NH2	1:X:218:ASN:OD1	2.25	0.69
1:Z:406:ASN:CG	1:7:342:HIS:CE1	151.66	0.69
1:1:82:ARG:NH2	1:1:218:ASN:OD1	2.25	0.69
1:C:318:SER:OG	1:2:393:GLN:NE2	2.24	0.69
1:2:524:ARG:NH1	1:2:564:MET:SD	2.65	0.69
1:B:406:ASN:CG	1:J:342:HIS:CE1	2.66	0.69
1:N:342:HIS:CE1	1:P:406:ASN:CG	23.85	0.69
1:2:82:ARG:NH2	1:2:218:ASN:OD1	2.25	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:331:HIS:CE1	1:3:342:HIS:CD2	130.95	0.69
1:F:342:HIS:CD2	1:4:331:HIS:CE1	136.06	0.69
1:4:524:ARG:NH1	1:4:564:MET:SD	2.65	0.69
1:B:342:HIS:CE1	1:6:406:ASN:CG	220.78	0.69
1:D:524:ARG:NH1	1:D:564:MET:SD	2.65	0.69
1:X:342:HIS:CE1	1:5:406:ASN:CG	2.65	0.69
1:7:82:ARG:NH2	1:7:218:ASN:OD1	2.25	0.69
1:A:406:ASN:CG	1:6:342:HIS:CE1	186.25	0.69
1:A:406:ASN:CG	1:G:342:HIS:CE1	2.66	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: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:V:82:ARG:NH2	1:V:218:ASN:OD1	2.25	0.69
1:Y:82:ARG:NH2	1:Y:218:ASN:OD1	2.25	0.69
1:E:331:HIS:CE1	1:Q:342:HIS:CD2	2.81	0.69
1:G:468:SER:HB3	1:G:474:ILE:HD11	1.75	0.69
1:J:406:ASN:CG	1:L:342:HIS:CE1	2.65	0.69
1:K:409:PRO:O	1:L:223:ILE:HD11	68.50	0.69
1:M:468:SER:HB3	1:M:474:ILE:HD11	1.75	0.69
1:E:331:HIS:HE1	1:Q:342:HIS:CD2	2.09	0.69
1:U:82:ARG:NH2	1:U:218:ASN:OD1	2.25	0.69
1:T:409:PRO:O	1:U:223:ILE:HD11	68.51	0.69
1:V:468:SER:HB3	1:V:474:ILE:HD11	1.75	0.69
1:Y:223:ILE:HD11	1:7:409:PRO:O	203.76	0.69
1:0:82:ARG:NH2	1:0:218:ASN:OD1	2.25	0.69
1:6:468:SER:HB3	1:6:474:ILE:HD11	1.75	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:H:468:SER:HB3	1:H:474:ILE:HD11	1.75	0.69
1:J:468:SER:HB3	1:J:474:ILE:HD11	1.75	0.69
1:G:223:ILE:HD11	1:O:409:PRO:O	196.11	0.69
1:5:82:ARG:NH2	1:5:218:ASN:OD1	2.25	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:M:223:ILE:HD11	1:2:409:PRO:O	1.93	0.68
1:B:223:ILE:HD11	1:6:409:PRO:O	239.91	0.68
1:C:409:PRO:O	1:D:223:ILE:HD11	101.10	0.68
1:A:223:ILE:HD11	1:I:409:PRO:O	1.94	0.68
1:J:409:PRO:O	1:L:223:ILE:HD11	1.93	0.68
1:V:393:GLN:NE2	1:X:318:SER:OG	2.25	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1:318:SER:OG	1:0:393:GLN:NE2	2.25	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:I:409:PRO:O	1:J:223:ILE:HD11	68.50	0.68
1:O:468:SER:HB3	1:O:474:ILE:HD11	1.75	0.68
1:T:409:PRO:O	1:4:223:ILE:HD11	1.93	0.68
1:U:409:PRO:O	1:V:223:ILE:HD11	81.92	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:Q:409:PRO:O	1:R:223:ILE:HD11	81.96	0.68
1:W:409:PRO:O	1:Z:223:ILE:HD11	96.88	0.68
1:F:223:ILE:HD11	1:4:409:PRO:O	144.47	0.68
1:A:223:ILE:HD11	1:B:409:PRO:O	68.49	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:Q:468:SER:HB3	1:Q:474:ILE:HD11	1.75	0.68
1:T:223:ILE:HD11	1:V:409:PRO:O	131.69	0.68
1:Y:409:PRO:O	1:Z:223:ILE:HD11	81.93	0.68
1:K:223:ILE:HD11	1:0:409:PRO:O	1.93	0.68
1:G:409:PRO:O	1:I:223:ILE:HD11	1.94	0.68
1:J:409:PRO:O	1:3:223:ILE:HD11	150.15	0.68
1:W:409:PRO:O	1:Y:223:ILE:HD11	1.93	0.68
1:1:409:PRO:O	1:0:223:ILE:HD11	1.93	0.68
1:V:409:PRO:O	1:5:223:ILE:HD11	1.93	0.68
1:A:331:HIS:CE1	1:G:342:HIS:CD2	2.80	0.68
1:A:342:HIS:CE1	1:I:406:ASN:CG	2.67	0.68
1:I:468:SER:HB3	1:I:474:ILE:HD11	1.75	0.68
1:N:223:ILE:HD11	1:P:409:PRO:O	22.06	0.68
1:E:416:ASN:OD1	1:Q:371:GLN:NE2	2.27	0.68
1:I:223:ILE:HD11	1:3:409:PRO:O	203.77	0.68
1:4:468:SER:HB3	1:4:474:ILE:HD11	1.75	0.68
1:Z:409:PRO:O	1:7:223:ILE:HD11	163.73	0.68
1:D:409:PRO:O	1:E:223:ILE:HD11	101.10	0.68
1:K:223:ILE:HD11	1:M:409:PRO:O	149.19	0.68
1:C:223:ILE:HD11	1:M:409:PRO:O	1.93	0.68
1:H:409:PRO:O	1:O:223:ILE:HD11	229.07	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:R:468:SER:HB3	1:R:474:ILE:HD11	1.75	0.68
1:F:409:PRO:O	1:T:223:ILE:HD11	163.75	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: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
1:2:468: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:B:468:SER:HB3	1:B: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
1:W:468:SER:HB3	1:W:474:ILE:HD11	1.75	0.68
1:N:409:PRO:O	1:O:223:ILE:HD11	81.92	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	101.12	0.67
1:1:468:SER:HB3	1:1:474:ILE:HD11	1.75	0.67
1:I:342:HIS:ND1	1:I:342:HIS:O	2.28	0.67
1:D:223:ILE:HD11	1:P:409:PRO:O	1.93	0.67
1:Q:132:THR:HG22	1:Q:535:PRO:HD2	1.77	0.67
1:1:132:THR:HG22	1:1:535:PRO:HD2	1.77	0.67
1:K:409:PRO:O	1:1:223:ILE:HD11	1.93	0.67
1:K:132:THR:HG22	1:K:535:PRO:HD2	1.77	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:X:223:ILE:HD11	1:5:409:PRO:O	1.93	0.67
1:A:409:PRO:O	1:6:223:ILE:HD11	203.96	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:A:409:PRO:O	1:G:223:ILE:HD11	1.94	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:S:132:THR:HG22	1:S:535:PRO:HD2	1.77	0.67
1:S:342:HIS:ND1	1:S:342:HIS:O	2.28	0.67
1:X:223:ILE:HD11	1:Z:409:PRO:O	131.69	0.67
1:W:223:ILE:HD11	1:X:409:PRO:O	81.91	0.67
1:G:409:PRO:O	1:H:223:ILE:HD11	81.92	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:132:THR:HG22	1:L:535:PRO:HD2	1.77	0.67
1:L:409:PRO:O	1:M:223:ILE:HD11	90.33	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:132:THR:HG22	1:B:535:PRO:HD2	1.77	0.67
1:B:409:PRO:O	1:J:223:ILE:HD11	1.93	0.67
1:W:132:THR:HG22	1:W:535:PRO:HD2	1.77	0.67
1:H:223:ILE:HD11	1:Y:409:PRO:O	1.94	0.67
1:Z:342:HIS:O	1:Z:342:HIS:ND1	2.28	0.67
1:O:342:HIS:O	1:O:342:HIS:ND1	2.28	0.67
1:E:342:HIS:ND1	1:E:342:HIS:O	2.28	0.67
1:L:468:SER:HB3	1:L:474:ILE:HD11	1.75	0.67
1:N:342:HIS:ND1	1:N:342:HIS:O	2.28	0.67
1:R:342:HIS:O	1:R:342:HIS:ND1	2.28	0.67
1:V:342:HIS:ND1	1:V:342:HIS:O	2.28	0.67
1:I:342:HIS:O	1:I: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:ND1	1:A:342:HIS:O	2.28	0.67
1:F:342:HIS:O	1:F:342:HIS:ND1	2.28	0.67
1:K:342:HIS:ND1	1:K:342:HIS:O	2.28	0.67
1:O:409:PRO:O	1:P:223:ILE:HD11	68.50	0.67
1:Q:342:HIS:O	1:Q:342:HIS:ND1	2.28	0.67
1:X:342:HIS:ND1	1:X:342:HIS:O	2.28	0.67
1:Y:342:HIS:ND1	1:Y:342:HIS:O	2.28	0.67
1:O:468:SER:HB3	1:O:474:ILE:HD11	1.75	0.67
1:B:342:HIS:ND1	1:B:342:HIS:O	2.28	0.67
1:E:132:THR:HG22	1:E:535:PRO:HD2	1.77	0.67
1:J:132:THR:HG22	1:J:535:PRO:HD2	1.77	0.67
1:O:342:HIS:ND1	1:O:342:HIS:O	2.28	0.67
1:5:468:SER:HB3	1:5:474:ILE:HD11	1.75	0.67
1:C:342:HIS:ND1	1:C:342:HIS:O	2.28	0.67
1:M:132:THR:HG22	1:M:535:PRO:HD2	1.77	0.67
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: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
1:5:342:HIS:ND1	1:5:342:HIS:O	2.28	0.66
1:A:132:THR:HG22	1:A: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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:T:132:THR:HG22	1:T:535:PRO:HD2	1.77	0.66
1:Z:132:THR:HG22	1:Z:535:PRO:HD2	1.77	0.66
1:C:409:PRO:O	1:2:223:ILE:HD11	1.94	0.66
1:4:82:ARG:NH2	1:4:218:ASN:OD1	2.25	0.66
1:Z:468:SER:HB3	1:Z:474:ILE:HD11	1.75	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
1:M:342:HIS:O	1:M:342:HIS:ND1	2.28	0.66
1:F:460:ASP:OD1	1:Q:568:THR:O	2.13	0.66
1:W:342:HIS:ND1	1:W:342:HIS:O	2.28	0.66
1:D:342:HIS:ND1	1:D:342:HIS:O	2.28	0.66
1:C:223:ILE:HD11	1:E:409:PRO:O	130.43	0.66
1:X:371:GLN:NE2	1:Z:416:ASN:OD1	123.23	0.66
1:3:342:HIS:ND1	1:3:342:HIS:O	2.28	0.66
1:H:371:GLN:NE2	1:Y:416:ASN:OD1	2.29	0.66
1:J:342:HIS:O	1:J:342:HIS:ND1	2.28	0.66
1:R:67:LEU:HD11	1:R:111:PHE:HD2	1.61	0.66
1:4:342:HIS:O	1:4:342:HIS:ND1	2.28	0.66
1:B:371:GLN:NE2	1:6:416:ASN:OD1	235.69	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:H:342:HIS:CE1	1:Y:406:ASN:OD1	2.49	0.66
1:I:179:LEU:HD11	1:I:481:GLY:HA2	1.78	0.66
1:G:406:ASN:OD1	1:I:342:HIS:CE1	2.49	0.66
1:P:179:LEU:HD11	1:P:481:GLY:HA2	1.78	0.66
1:S:179:LEU:HD11	1:S:481:GLY:HA2	1.78	0.66
1:T:342:HIS:CE1	1:V:406:ASN:OD1	118.07	0.66
1:T:179:LEU:HD11	1:T:481:GLY:HA2	1.78	0.66
1:U:342:HIS:ND1	1:U:342:HIS:O	2.28	0.66
1:O:287:THR:HG23	1:O:569:MET:CG	2.26	0.66
1:M:371:GLN:NE2	1:2:416:ASN:OD1	2.29	0.66
1:7:342:HIS:ND1	1:7:342:HIS:O	2.28	0.66
1:D:132:THR:HG22	1:D:535:PRO:HD2	1.77	0.66
1:C:416:ASN:OD1	1:D:371:GLN:NE2	87.68	0.66
1:D:179:LEU:HD11	1:D:481:GLY:HA2	1.78	0.66
1:F:132:THR:HG22	1:F:535:PRO:HD2	1.77	0.66
1:G:179:LEU:HD11	1:G:481:GLY:HA2	1.78	0.66
1:J:406:ASN:OD1	1:3:342:HIS:CE1	138.35	0.66
1:J:416:ASN:OD1	1:L:371:GLN:NE2	2.29	0.66
1:L:416:ASN:OD1	1:M:371:GLN:NE2	102.87	0.66
1:L:179:LEU:HD11	1:L:481:GLY:HA2	1.78	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:179:LEU:HD11	1:M:481:GLY:HA2	1.78	0.66
1:Q:67:LEU:HD11	1:Q:111:PHE:HD2	1.61	0.66
1:V:287:THR:HG23	1:V:569:MET:CG	2.26	0.66
1:W:406:ASN:OD1	1:Y:342:HIS:CE1	2.49	0.66
1:X:342:HIS:CE1	1:Z:406:ASN:OD1	118.06	0.66
1:Y:67:LEU:HD11	1:Y:111:PHE:HD2	1.61	0.66
1:W:406:ASN:OD1	1:Z:342:HIS:CE1	88.98	0.66
1:3:67:LEU:HD11	1:3:111:PHE:HD2	1.61	0.66
1:I:371:GLN:NE2	1:3:416:ASN:OD1	190.21	0.66
1:4:67:LEU:HD11	1:4:111:PHE:HD2	1.61	0.66
1:7:67:LEU:HD11	1:7:111:PHE:HD2	1.61	0.66
1:B:287:THR:HG23	1:B:569:MET:CG	2.26	0.66
1:F:342:HIS:CE1	1:4:406:ASN:OD1	134.97	0.66
1:F:416:ASN:OD1	1:T:371:GLN:NE2	140.74	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:I:287:THR:HG23	1:I:569:MET:CG	2.26	0.66
1:L:287:THR:HG23	1:L:569:MET:CG	2.26	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	33.50	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:T:287:THR:HG23	1:T:569:MET:CG	2.26	0.66
1:Y:371:GLN:NE2	1:7:416:ASN:OD1	190.21	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:A:371:GLN:NE2	1:B:416:ASN:OD1	101.99	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:G:416:ASN:OD1	1:H:371:GLN:NE2	75.95	0.66
1:H:406:ASN:OD1	1:W:342:HIS:CE1	2.49	0.66
1:J:67:LEU:HD11	1:J:111:PHE:HD2	1.61	0.66
1:B:371:GLN:NE2	1:L:416:ASN:OD1	2.29	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	93.49	0.66
1:S:287:THR:HG23	1:S:569:MET:CG	2.26	0.66
1:U:67:LEU:HD11	1:U:111:PHE:HD2	1.61	0.66
1:S:416:ASN:OD1	1:U:371:GLN:NE2	2.29	0.66
1:Z:287:THR:HG23	1:Z:569:MET:CG	2.26	0.66
1:6:132:THR:HG22	1:6:535:PRO:HD2	1.77	0.65
1:A:342:HIS:CE1	1:B:406:ASN:OD1	61.28	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:287:THR:HG23	1:C:569:MET:CG	2.26	0.65
1:E:67:LEU:HD11	1:E:111:PHE:HD2	1.61	0.65
1:G:287:THR:HG23	1:G:569:MET:CG	2.26	0.65
1:K:406:ASN:OD1	1:1:342:HIS:CE1	2.49	0.65
1:N:416:ASN:OD1	1:O:371:GLN:NE2	75.94	0.65
1:P:287:THR:HG23	1:P:569:MET:CG	2.26	0.65
1:E:409:PRO:O	1:Q:223:ILE:HD11	1.95	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	73.11	0.65
1:X:67:LEU:HD11	1:X:111:PHE:HD2	1.61	0.65
1:Y:416:ASN:OD1	1:Z:371:GLN:NE2	75.96	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:F:371:GLN:NE2	1:4:416:ASN:OD1	170.02	0.65
1:A:287:THR:HG23	1:A:569:MET:CG	2.26	0.65
1:D:67:LEU:HD11	1:D:111:PHE:HD2	1.61	0.65
1:C:406:ASN:OD1	1:D:342:HIS:CE1	93.48	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:L:406:ASN:OD1	1:M:342:HIS:CE1	84.88	0.65
1:S:67:LEU:HD11	1:S:111:PHE:HD2	1.61	0.65
1:V:67:LEU:HD11	1:V:111:PHE:HD2	1.61	0.65
1:X:342:HIS:CE1	1:5:406:ASN:OD1	2.50	0.65
1:V:371:GLN:NE2	1:X:416:ASN:OD1	2.29	0.65
1:Z:416:ASN:OD1	1:7:371:GLN:NE2	140.72	0.65
1:Z:67:LEU:HD11	1:Z:111:PHE:HD2	1.61	0.65
1:K:371:GLN:NE2	1:0:416:ASN:OD1	2.29	0.65
1:1:67:LEU:HD11	1:1:111:PHE:HD2	1.61	0.65
1:J:416:ASN:OD1	1:3:371:GLN:NE2	118.20	0.65
1:I:342:HIS:CE1	1:3:406:ASN:OD1	186.91	0.65
1:A:179:LEU:HD11	1:A:481:GLY:HA2	1.78	0.65
1:C:342:HIS:CE1	1:M:406:ASN:OD1	2.50	0.65
1:D:406:ASN:OD1	1:E:342:HIS:CE1	93.48	0.65
1:F:406:ASN:OD1	1:T:342:HIS:CE1	152.77	0.65
1:G:406:ASN:OD1	1:H:342:HIS:CE1	73.11	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:M:416:ASN:OD1	120.47	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:287:THR:HG23	1:N:569:MET:CG	2.26	0.65
1:N:342:HIS:CE1	1:P:406:ASN:OD1	24.26	0.65
1:H:416:ASN:OD1	1:O:371:GLN:NE2	221.27	0.65
1:R:406:ASN:OD1	1:S:342:HIS:CE1	2.49	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:O:132:THR:HG22	1:O:535:PRO:HD2	1.77	0.65
1:3:132:THR:HG22	1:3:535:PRO:HD2	1.77	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
1:5:67: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
1:7:287:THR:HG23	1:7:569:MET:CG	2.26	0.65
1:7:179:LEU:HD11	1:7:481:GLY:HA2	1.78	0.65
1:A:67:LEU:HD11	1:A:111:PHE:HD2	1.61	0.65
1:G:342:HIS:CE1	1:O:406:ASN:OD1	180.58	0.65
1:I:406:ASN:OD1	1:J:342:HIS:CE1	61.29	0.65
1:J:179:LEU:HD11	1:J:481:GLY:HA2	1.78	0.65
1:L:67:LEU:HD11	1:L:111:PHE:HD2	1.61	0.65
1:K:406:ASN:OD1	1:L:342:HIS:CE1	61.29	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:R:287:THR:HG23	1:R:569:MET:CG	2.26	0.65
1:Q:416:ASN:OD1	1:R:371:GLN:NE2	75.98	0.65
1:C:416:ASN:OD1	1:2:371:GLN:NE2	2.29	0.65
1:T:406:ASN:OD1	1:4:342:HIS:CE1	2.49	0.65
1:O:67:LEU:HD11	1:O:111:PHE:HD2	1.61	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: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:K:416:ASN:OD1	1:1:371:GLN:NE2	2.29	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:B:67:LEU:HD11	1:B:111:PHE:HD2	1.61	0.65
1:C:371:GLN:NE2	1:E:416:ASN:OD1	151.38	0.65
1:A:371:GLN:NE2	1:I:416:ASN:OD1	2.29	0.65
1:K:67:LEU:HD11	1:K:111:PHE:HD2	1.61	0.65
1:K:342:HIS:CE1	1:O:406:ASN:OD1	2.49	0.65
1:K:287:THR:HG23	1:K:569:MET:CG	2.26	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:406:ASN:OD1	1:O:342:HIS:CE1	73.11	0.65
1:Q:371:GLN:NE2	1:S:416:ASN:OD1	87.72	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	75.94	0.65
1:Y:406:ASN:OD1	1:Z:342:HIS:CE1	73.12	0.65
1:Y:287:THR:HG23	1:Y:569:MET:CG	2.26	0.65
1:Z:406:ASN:OD1	1:7:342:HIS:CE1	152.76	0.65
1:C:406:ASN:OD1	1:2:342:HIS:CE1	2.49	0.65
1:6:287:THR:HG23	1:6:569:MET:CG	2.26	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:287:THR:HG23	1:E:569:MET:CG	2.26	0.65
1:E:179:LEU:HD11	1:E:481:GLY:HA2	1.78	0.65
1:O:287:THR:HG23	1:O:569:MET:CG	2.26	0.65
1:E:406:ASN:CG	1:Q:342:HIS:CE1	2.70	0.65
1:T:416:ASN:OD1	1:U:371:GLN:NE2	101.99	0.65
1:U:416:ASN:OD1	1:V:371:GLN:NE2	75.94	0.65
1:T:371:GLN:NE2	1:V:416:ASN:OD1	123.23	0.65
1:H:416:ASN:OD1	1:W:371:GLN:NE2	2.29	0.65
1:W:568:THR:O	1:Y:460:ASP:OD1	2.15	0.65
1:W:568:THR:O	1:Z:460:ASP:OD1	80.21	0.65
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:C:67:LEU:HD11	1:C:111:PHE:HD2	1.61	0.65
1:H:406:ASN:OD1	1:O:342:HIS:CE1	209.71	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:J:287:THR:HG23	1:J:569:MET:CG	2.26	0.65
1:G:460:ASP:OD1	1:O:568:THR:O	150.37	0.65
1:O:406:ASN:OD1	1:P:342:HIS:CE1	61.29	0.65
1:N: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:T:406:ASN:OD1	1:U:342:HIS:CE1	61.29	0.65
1:U:568:THR:O	1:V:460:ASP:OD1	57.79	0.65
1:T:460:ASP:OD1	1:V:568:THR:O	92.34	0.65
1:X:287:THR:HG23	1:X:569:MET:CG	2.26	0.65
1:3:283:SER:H	1:3:286:HIS:CD2	2.15	0.65
1:A:416:ASN:OD1	1:6:371:GLN:NE2	179.22	0.65
1:C:342:HIS:CE1	1:E:406:ASN:OD1	118.07	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:287:THR:HG23	1:F:569:MET:CG	2.26	0.65
1:F:342:HIS:CE1	1:Q:406:ASN:CG	2.70	0.65
1:G:78:TYR:OH	1:G:105:GLN:NE2	2.30	0.65
1:H:568:THR:O	1:O:460:ASP:OD1	174.15	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	101.99	0.65
1:K:460:ASP:OD1	1:M:568:THR:O	119.22	0.65
1:K:568:THR:O	1:L:460:ASP:OD1	43.88	0.65
1:M:78:TYR:OH	1:M:105:GLN:NE2	2.30	0.65
1:O:416:ASN:OD1	1:P:371:GLN:NE2	101.99	0.65
1:Q:406:ASN:OD1	1:R:342:HIS:CE1	73.15	0.65
1:W:179:LEU:HD11	1:W:481:GLY:HA2	1.78	0.65
1:2:179:LEU:HD11	1:2:481:GLY:HA2	1.78	0.65
1:T:416:ASN:OD1	1:4:371:GLN:NE2	2.29	0.65
1:6:78:TYR:OH	1:6:105:GLN:NE2	2.30	0.65
1:7:78:TYR:OH	1:7:105:GLN:NE2	2.30	0.65
1:A:78:TYR:OH	1:A:105:GLN:NE2	2.30	0.65
1:B:179:LEU:HD11	1:B:481:GLY:HA2	1.78	0.65
1:B:78:TYR:OH	1:B:105:GLN:NE2	2.30	0.65
1:C:179:LEU:HD11	1:C:481:GLY:HA2	1.78	0.65
1:D:287:THR:HG23	1:D:569:MET:CG	2.26	0.65
1:F:283:SER:H	1:F:286:HIS:CD2	2.15	0.65
1:H:460:ASP:OD1	1:Y:568:THR:O	2.15	0.65
1:B:416:ASN:OD1	1:J:371:GLN:NE2	2.29	0.65
1:J:78:TYR:OH	1:J:105:GLN:NE2	2.30	0.65
1:L:78:TYR:OH	1:L:105:GLN:NE2	2.30	0.65
1:K:342:HIS:CE1	1:M:406:ASN:OD1	136.64	0.65
1:O:179:LEU:HD11	1:O:481:GLY:HA2	1.78	0.65
1:P:283:SER:H	1:P:286:HIS:CD2	2.15	0.65
1:S:283:SER:H	1:S:286:HIS:CD2	2.15	0.65
1:S:78:TYR:OH	1:S:105:GLN:NE2	2.30	0.65
1:U:406:ASN:OD1	1:V:342:HIS:CE1	73.11	0.65
1:U:78:TYR:OH	1:U:105:GLN:NE2	2.30	0.65
1:X:460:ASP:OD1	1:Z:568:THR:O	92.34	0.65
1:Y:78:TYR:OH	1:Y:105:GLN:NE2	2.30	0.65
1:W:416:ASN:OD1	1:Y:371:GLN:NE2	2.30	0.65
1:Z:78:TYR:OH	1:Z:105:GLN:NE2	2.30	0.65
1:W:416:ASN:OD1	1:Z:371:GLN:NE2	55.57	0.65
1:Z:179:LEU:HD11	1:Z:481:GLY:HA2	1.78	0.65
1:3:287:THR:HG23	1:3:569:MET:CG	2.26	0.64
1:I:460:ASP:OD1	1:3:568:THR:O	157.26	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:406:ASN:OD1	1:G:342:HIS:CE1	2.50	0.64
1:F:179:LEU:HD11	1:F:481:GLY:HA2	1.78	0.64
1:G:371:GLN:NE2	1:O:416:ASN:OD1	215.29	0.64
1:B:568:THR:O	1:J:460:ASP:OD1	2.16	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
1:M:287:THR:HG23	1:M:569:MET:CG	2.26	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:Y:460:ASP:OD1	1:7:568:THR:O	157.25	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:Y:342:HIS:CE1	1:7:406:ASN:OD1	186.91	0.64
1:A:568:THR:O	1:6:460:ASP:OD1	157.34	0.64
1:K:416:ASN:OD1	1:L:371:GLN:NE2	101.99	0.64
1:N:78:TYR:OH	1:N:105:GLN:NE2	2.30	0.64
1:R:460:ASP:OD1	1:U:568:THR:O	2.15	0.64
1:F:568:THR:O	1:T:460:ASP:OD1	139.91	0.64
1:R:342:HIS:CE1	1:U:406:ASN:OD1	2.49	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
1:0:67:LEU:HD11	1:0:111:PHE:HD2	1.61	0.64
1:1:406:ASN:OD1	1:0:342:HIS:CE1	2.50	0.64
1:M:460:ASP:OD1	1:2:568:THR:O	2.15	0.64
1:7:132:THR:HG22	1:7:535:PRO:HD2	1.77	0.64
1:B:460:ASP:OD1	1:6:568:THR:O	191.20	0.64
1:C:78:TYR:OH	1:C:105:GLN:NE2	2.30	0.64
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:H:67:LEU:HD11	1:H:111:PHE:HD2	1.61	0.64
1:S:568:THR:O	1:U:460:ASP:OD1	2.16	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	57.80	0.64
1:5:179:LEU:HD11	1:5:481:GLY:HA2	1.78	0.64
1:C:568:THR:O	1:D:460:ASP:OD1	87.57	0.64
1:D:416:ASN:OD1	1:E:371:GLN:NE2	87.68	0.64
1:E:568:THR:O	1:Q:460:ASP:OD1	2.14	0.64
1:H:287:THR:HG23	1:H:569:MET:CG	2.26	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:R:568:THR:O	1:S:460:ASP:OD1	2.15	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Z:568:THR:O	1:7:460:ASP:OD1	139.89	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:B:342:HIS:CE1	1:6:406:ASN:OD1	221.79	0.64
1:C:371:GLN:NE2	1:M:416:ASN:OD1	2.29	0.64
1:C:118:TRP:HB2	1:C:449:TYR:O	1.98	0.64
1:D:568:THR:O	1:E:460:ASP:OD1	87.57	0.64
1:E:118:TRP:HB2	1:E:449:TYR:O	1.98	0.64
1:C:460:ASP:OD1	1:E:568:THR:O	95.08	0.64
1:G:568:THR:O	1:H:460:ASP:OD1	57.80	0.64
1:H:283:SER:H	1:H:286:HIS:CD2	2.15	0.64
1:J:406:ASN:OD1	1:L:342:HIS:CE1	2.50	0.64
1:L:568:THR:O	1:M:460:ASP:OD1	73.31	0.64
1:O:78:TYR:OH	1:O:105:GLN:NE2	2.30	0.64
1:D:78:TYR:OH	1:D:105:GLN:NE2	2.30	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:I:568:THR:O	1:J:460:ASP:OD1	43.88	0.64
1:C:460:ASP:OD1	1:M:568:THR:O	2.15	0.64
1:N:118:TRP:HB2	1:N:449:TYR:O	1.98	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: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:118:TRP:HB2	1:S:449:TYR:O	1.98	0.64
1:Y:179:LEU:HD11	1:Y:481:GLY:HA2	1.78	0.64
1:O:78:TYR:OH	1:O:105:GLN:NE2	2.30	0.64
1:O:179:LEU:HD11	1:O:481:GLY:HA2	1.78	0.64
1:J:568:THR:O	1:3:460:ASP:OD1	118.51	0.64
1:4:287:THR:HG23	1:4:569:MET:CG	2.26	0.64
1:F:460:ASP:OD1	1:4:568:THR:O	118.48	0.64
1:A:406:ASN:OD1	1:6:342:HIS:CE1	186.71	0.64
1:C:568:THR:O	1:2:460:ASP:OD1	2.15	0.64
1:E:371:GLN:NE2	1:F:416:ASN:OD1	2.30	0.64
1:F:459:PRO:HB3	1:Q:569:MET:CE	2.28	0.64
1:B:406:ASN:OD1	1:J:342:HIS:CE1	2.50	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: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
1:3:179:LEU:HD11	1:3:481:GLY:HA2	1.78	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:118:TRP:HB2	1:D:449:TYR:O	1.98	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:Q:179:LEU:HD11	1:Q: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:L:118:TRP:HB2	1:L:449:TYR:O	1.98	0.64
1:N:179:LEU:HD11	1:N:481:GLY:HA2	1.78	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
1:V:568:THR:O	1:5:460:ASP:OD1	2.15	0.64
1:7:118:TRP:HB2	1:7:449:TYR:O	1.98	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:N:568:THR:O	1:O:460:ASP:OD1	57.80	0.64
1:R:283:SER:H	1:R:286:HIS:CD2	2.15	0.64
1:T:78:TYR:OH	1:T:105:GLN:NE2	2.30	0.64
1:U:118:TRP:HB2	1:U:449:TYR:O	1.98	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:K:460:ASP:OD1	1:O:568:THR:O	2.15	0.63
1:C:283:SER:H	1:C:286:HIS:CD2	2.15	0.63
1:F:118:TRP:HB2	1:F:449:TYR:O	1.98	0.63
1:K:118:TRP:HB2	1:K:449:TYR:O	1.98	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	31.02	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:568:THR:O	1:P:460:ASP:OD1	43.88	0.63
1:X:118:TRP:HB2	1:X:449:TYR:O	1.98	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:283:SER:HB3	1:A:403:GLY:HA2	1.81	0.63
1:E:283:SER:HB3	1:E:403:GLY:HA2	1.81	0.63
1:N:568:THR:O	1:P:460:ASP:OD1	2.16	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:W:78:TYR:OH	1:W:105:GLN:NE2	2.30	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:B:283:SER:HB3	1:B:403:GLY:HA2	1.81	0.63
1:G:283:SER:HB3	1:G:403:GLY:HA2	1.81	0.63
1:L:283:SER:HB3	1:L:403:GLY:HA2	1.81	0.63
1:O:283:SER:HB3	1:O:403:GLY:HA2	1.81	0.63
1:3:283:SER:HB3	1:3:403:GLY:HA2	1.81	0.63
1:3:118:TRP:HB2	1:3:449:TYR:O	1.98	0.63
1:5:283:SER:HB3	1:5:403:GLY:HA2	1.81	0.63
1:7:283:SER:H	1:7:286:HIS:CD2	2.15	0.63
1:A:460:ASP:OD1	1:B:568:THR:O	43.87	0.63
1:F:283:SER:HB3	1:F:403:GLY:HA2	1.81	0.63
1:E:460:ASP:OD1	1:F:568:THR:O	2.16	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:283:SER:H	1:U:286:HIS:CD2	2.15	0.63
1:O:118:TRP:HB2	1:O:449:TYR:O	1.98	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: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
1:1:111: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: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:B:460:ASP:OD1	1:L:568:THR:O	2.16	0.63
1:O:111:PHE:HD1	1:O:209:GLN:HA	1.64	0.63
1:O:283:SER:HB3	1:O:403:GLY:HA2	1.81	0.63
1:Q:283:SER:HB3	1:Q:403:GLY:HA2	1.81	0.63
1:T:283:SER:HB3	1:T:403:GLY:HA2	1.81	0.63
1:X:283:SER:HB3	1:X:403:GLY:HA2	1.81	0.63
1:1:568:THR:O	1:O:460:ASP:OD1	2.16	0.63
1:2:111:PHE:HD1	1:2:209:GLN:HA	1.64	0.63
1:C:111:PHE:HD1	1:C: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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:283:SER:HB3	1:I:403:GLY:HA2	1.81	0.63
1:A:460:ASP:OD1	1:I:568:THR:O	2.15	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: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
1:5:111:PHE:HD1	1:5:209:GLN:HA	1.64	0.63
1:C:283:SER:HB3	1:C:403:GLY:HA2	1.81	0.63
1:E:283:SER:H	1:E:286:HIS:CD2	2.15	0.63
1:K:283:SER:H	1:K:286:HIS:CD2	2.15	0.63
1:Q:111:PHE:HD1	1:Q:209:GLN:HA	1.64	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:Q:460:ASP:OD1	1:S:568:THR:O	87.56	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:H:568:THR:O	1:W:460:ASP:OD1	2.15	0.63
1:K:568:THR:O	1:1:460:ASP:OD1	2.16	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:283:SER:H	1:B:286:HIS:CD2	2.15	0.62
1:P:111:PHE:HD1	1:P: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	57.80	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: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: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	2.11	0.62
1:S:283:SER:HB3	1:S:403:GLY:HA2	1.81	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: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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:569:MET:CE	1:Q:459:PRO:HB3	2.30	0.62
1:R:283:SER:HB3	1:R:403:GLY:HA2	1.81	0.62
1:Q:568:THR:O	1:R:460:ASP:OD1	57.82	0.62
1:S:63:ARG:HG3	1:S:197:LEU:HD23	1.82	0.62
1:T:568:THR:O	1:U:460:ASP:OD1	43.88	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: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
1:4:63: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:111:PHE:HD1	1:J:209:GLN:HA	1.64	0.62
1:J:63:ARG:HG3	1:J:197:LEU:HD23	1.81	0.62
1:N:281:TRP:CE3	1:P:215:ASN:HB3	2.35	0.62
1:Z:63:ARG:HG3	1:Z:197:LEU:HD23	1.82	0.62
1:B:63:ARG:HG3	1:B:197:LEU:HD23	1.82	0.62
1:D:568:THR:O	1:N:460:ASP:OD1	2.16	0.62
1:F:111:PHE:HD1	1:F:209:GLN:HA	1.64	0.62
1:K:63:ARG:HG3	1:K:197:LEU:HD23	1.82	0.62
1:N:63:ARG:HG3	1:N: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:X:283:SER:H	1:X:286:HIS:CD2	2.15	0.62
1:6:111:PHE:HD1	1:6:209:GLN:HA	1.64	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:U:131:THR:HG22	1:U:563:CYS:SG	2.40	0.62
1:1:131:THR:HG22	1:1:563:CYS:SG	2.40	0.62
1:7:283:SER:HB3	1:7:403:GLY:HA2	1.81	0.62
1:C:131:THR:HG22	1:C:563:CYS:SG	2.40	0.62
1:C:63:ARG:HG3	1:C:197:LEU:HD23	1.81	0.62
1:G:131:THR:HG22	1:G:563:CYS:SG	2.40	0.62
1:H:131:THR:HG22	1:H:563:CYS:SG	2.40	0.62
1:M:131:THR:HG22	1:M:563:CYS:SG	2.40	0.62
1:Z:111:PHE:HD1	1:Z:209:GLN:HA	1.64	0.62
1:0:283:SER:H	1:0:286:HIS:CD2	2.15	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:131:THR:HG22	1:D:563:CYS:SG	2.40	0.62
1:D:63:ARG:HG3	1:D:197:LEU:HD23	1.82	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: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:Y:215:ASN:HB3	1:7:281:TRP:CE3	172.04	0.62
1:Y:283:SER:HB3	1:Y:403:GLY:HA2	1.81	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	38.87	0.62
1:E:63:ARG:HG3	1:E:197:LEU:HD23	1.81	0.62
1:G:63:ARG:HG3	1:G:197:LEU:HD23	1.82	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	60.46	0.62
1:N:569:MET:HE1	1:O:459:PRO:HB3	59.61	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
1:3:131: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:B:215:ASN:HB3	1:L:281:TRP:CE3	2.35	0.62
1:D:335:SER:N	1:D:435:THR:HG22	2.11	0.62
1:F:131:THR:HG22	1:F:563:CYS:SG	2.40	0.62
1:F:63:ARG:HG3	1:F:197:LEU:HD23	1.82	0.62
1:H:63:ARG:HG3	1:H:197:LEU:HD23	1.82	0.62
1:N:131:THR:HG22	1:N:563:CYS:SG	2.40	0.62
1:O:131:THR:HG22	1:O:563:CYS:SG	2.40	0.62
1:P:131:THR:HG22	1:P: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:V:63:ARG:HG3	1:V:197:LEU:HD23	1.82	0.62
1:Y:63:ARG:HG3	1:Y:197:LEU:HD23	1.82	0.62
1:0:63:ARG:HG3	1:0:197:LEU:HD23	1.82	0.61
1:3:111:PHE:HD1	1:3:209:GLN:HA	1.64	0.61
1:B:215:ASN:HB3	1:6:281:TRP:CE3	210.49	0.61
1:I:131:THR:HG22	1:I:563:CYS:SG	2.40	0.61
1:I:281:TRP:CE3	1:J:215:ASN:HB3	38.87	0.61
1:K:131:THR:HG22	1:K:563:CYS:SG	2.40	0.61
1:O:281:TRP:CE3	1:P:215:ASN:HB3	38.87	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:K:281:TRP:CE3	1:1:215:ASN:HB3	2.35	0.61
1:I:215:ASN:HB3	1:3:281:TRP:CE3	172.04	0.61
1:7:63:ARG:HG3	1:7:197:LEU:HD23	1.82	0.61
1:C:215:ASN:HB3	1:E:281:TRP:CE3	94.90	0.61
1:C:281:TRP:CE3	1:2:215:ASN:HB3	2.35	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:T:281:TRP:CE3	1:4:215:ASN:HB3	2.35	0.61
1:T:63:ARG:HG3	1:T:197:LEU:HD23	1.81	0.61
1:U:281:TRP:CE3	1:V:215:ASN:HB3	60.46	0.61
1:U:569:MET:HE1	1:V:459:PRO:HB3	59.62	0.61
1:W:215:ASN:HB3	1:X:281:TRP:CE3	60.47	0.61
1:W:281:TRP:CE3	1:Y:215:ASN:HB3	2.36	0.61
1:W:281:TRP:CE3	1:Z:215:ASN:HB3	96.43	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: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:E:406:ASN:OD1	1:Q:342:HIS:CE1	2.53	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:N:215:ASN:HB3	1:P:281:TRP:CE3	45.26	0.61
1:Q:281:TRP:CE3	1:R:215:ASN:HB3	60.50	0.61
1:R:294:ASP:OD1	1:R:304:GLN:HB3	2.01	0.61
1:F:281:TRP:CE3	1:T:215:ASN:HB3	161.52	0.61
1:T:281:TRP:CE3	1:U:215:ASN:HB3	38.87	0.61
1:U:63:ARG:HG3	1:U:197:LEU:HD23	1.81	0.61
1:X:215:ASN:HB3	1:5:281:TRP:CE3	2.35	0.61
1:X:63:ARG:HG3	1:X:197:LEU:HD23	1.82	0.61
1:Z:294:ASP:OD1	1:Z:304:GLN:HB3	2.01	0.61
1:1:281:TRP:CE3	1:0:215:ASN:HB3	2.35	0.61
1:0:131:THR:HG22	1:0:563:CYS:SG	2.40	0.61
1:2:131:THR:HG22	1:2:563:CYS:SG	2.40	0.61
1:B:131:THR:HG22	1:B:563:CYS:SG	2.40	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:F:342:HIS:CE1	1:Q:406:ASN:OD1	2.53	0.61
1:S:294:ASP:OD1	1:S:304:GLN:HB3	2.01	0.61
1:T:294:ASP:OD1	1:T:304:GLN:HB3	2.01	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:V:294:ASP:OD1	1:V:304:GLN:HB3	2.01	0.61
1:W:131:THR:HG22	1:W:563:CYS:SG	2.40	0.61
1:W:569:MET:CE	1:Y:459:PRO:HB3	2.31	0.61
1:W:569:MET:CE	1:Z:459:PRO:HB3	73.91	0.61
1:Y:281:TRP:CE3	1:Z:215:ASN:HB3	60.47	0.61
1:O:294:ASP:OD1	1:O:304:GLN:HB3	2.01	0.61
1:5:63:ARG:HG3	1:5:197:LEU:HD23	1.82	0.61
1:Z:281:TRP:CE3	1:7:215:ASN:HB3	161.51	0.61
1:A:281:TRP:CE3	1:6:215:ASN:HB3	173.50	0.61
1:A:294:ASP:OD1	1:A:304:GLN:HB3	2.01	0.61
1:D:294:ASP:OD1	1:D:304:GLN:HB3	2.01	0.61
1:G:294:ASP:OD1	1:G:304:GLN:HB3	2.01	0.61
1:C:215:ASN:HB3	1:M:281:TRP:CE3	2.35	0.61
1:Q:215:ASN:HB3	1:S:281:TRP:CE3	100.13	0.61
1:W:63:ARG:HG3	1:W:197:LEU:HD23	1.82	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:M:215:ASN:HB3	1:2:281:TRP:CE3	2.35	0.61
1:5:294:ASP:OD1	1:5:304:GLN:HB3	2.01	0.61
1:7:111:PHE:HD1	1:7:209:GLN:HA	1.64	0.61
1:D:281:TRP:CE3	1:E:215:ASN:HB3	100.14	0.61
1:G:281:TRP:CE3	1:H:215:ASN:HB3	60.46	0.61
1:I:283:SER:H	1:I:286:HIS:CD2	2.15	0.61
1:B:281:TRP:CE3	1:J:215:ASN:HB3	2.35	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:215:ASN:HB3	1:X:281:TRP:CE3	2.35	0.61
1:4:111:PHE:HD1	1:4:209:GLN:HA	1.64	0.61
1:V:281:TRP:CE3	1:5:215:ASN:HB3	2.35	0.61
1:A:63:ARG:HG3	1:A:197:LEU:HD23	1.82	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	100.14	0.61
1:F:459:PRO:HB3	1:4:569:MET:CE	126.95	0.61
1:A:569:MET:CE	1:G:459:PRO:HB3	2.30	0.61
1:K:294:ASP:OD1	1:K:304:GLN:HB3	2.01	0.61
1:K:459:PRO:HB3	1:M:569:MET:CE	117.23	0.61
1:L:281:TRP:CE3	1:M:215:ASN:HB3	81.84	0.61
1:M:294:ASP:OD1	1:M:304:GLN:HB3	2.01	0.61
1:H:569:MET:CE	1:O:459:PRO:HB3	179.42	0.61
1:O:569:MET:CE	1:P:459:PRO:HB3	54.36	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:W:316:ASP:HA	1:Y:376:LYS:HD2	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:J:569:MET:CE	1:3:459:PRO:HB3	116.24	0.61
1:6:131:THR:HG22	1:6:563:CYS:SG	2.40	0.61
1:7:131:THR:HG22	1:7:563:CYS:SG	2.40	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:H:294:ASP:OD1	1:H:304:GLN:HB3	2.01	0.61
1:A:215:ASN:HB3	1:I:281:TRP:CE3	2.36	0.61
1:J:131:THR:HG22	1:J:563:CYS:SG	2.40	0.61
1:G:215:ASN:HB3	1:O:281:TRP:CE3	159.15	0.61
1:S:281:TRP:CE3	1:U:215:ASN:HB3	2.35	0.61
1:S:569:MET:CE	1:U:459:PRO:HB3	2.31	0.61
1:T:215:ASN:HB3	1:V:281:TRP:CE3	96.08	0.61
1:V:376:LYS:HA	1:V:395:TRP:HA	1.83	0.61
1:W:316:ASP:HA	1:Z:376:LYS:HD2	49.66	0.61
1:W:283:SER:HB3	1:W:403:GLY:HA2	1.81	0.61
1:4:131:THR:HG22	1:4:563:CYS:SG	2.40	0.61
1:7:294:ASP:OD1	1:7:304:GLN:HB3	2.01	0.61
1:B:459:PRO:HB3	1:L:569:MET:CE	2.31	0.61
1:D:569:MET:CE	1:E:459:PRO:HB3	86.84	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:O:281:TRP:CE3	2.35	0.61
1:K:281:TRP:CE3	1:L:215:ASN:HB3	38.87	0.61
1:K:569:MET:CE	1:L:459:PRO:HB3	54.36	0.61
1:N:459:PRO:HB3	1:P:569:MET:HE1	27.38	0.61
1:N:459:PRO:HB3	1:P:569:MET:CE	28.26	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:Z:569:MET:CE	1:7:459:PRO:HB3	138.69	0.61
1:6:376:LYS:HA	1:6:395:TRP:HA	1.83	0.61
1:A:459:PRO:HB3	1:B:569:MET:CE	54.35	0.61
1:E:459:PRO:HB3	1:F:569:MET:CE	2.31	0.61
1:G:569:MET:CE	1:I:459:PRO:HB3	2.31	0.61
1:J:376:LYS:HA	1:J:395:TRP:HA	1.83	0.61
1:K:316:ASP:HA	1:L:376:LYS:HD2	98.23	0.61
1:O:294:ASP:OD1	1:O:304:GLN:HB3	2.01	0.61
1:G:376:LYS:HD2	1:O:316:ASP:HA	208.42	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:569:MET:CE	1:O:459:PRO:HB3	59.02	0.61
1:G:459:PRO:HB3	1:O:569:MET:CE	160.91	0.61
1:E:569:MET:HE1	1:Q:459:PRO:HB3	1.82	0.61
1:R:376:LYS:HA	1:R:395:TRP:HA	1.83	0.61
1:R:459:PRO:HB3	1:U:569:MET:CE	2.31	0.61
1:4:376:LYS:HA	1:4:395:TRP:HA	1.83	0.60
1:A:569:MET:CE	1:6:459:PRO:HB3	158.05	0.60
1:C:459:PRO:HB3	1:M:569:MET:CE	2.31	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:B:569:MET:CE	1:J:459:PRO:HB3	2.31	0.60
1:O:376:LYS:HA	1:O:395:TRP:HA	1.83	0.60
1:Q:294:ASP:OD1	1:Q:304:GLN:HB3	2.01	0.60
1:T:459:PRO:HB3	1:V:569:MET:CE	94.51	0.60
1:Y:459:PRO:HB3	1:7:569:MET:CE	160.40	0.60
1:E:335:SER:N	1:E:435:THR:HG22	2.12	0.60
1:J:316:ASP:HA	1:3:376:LYS:HD2	108.83	0.60
1:P:294:ASP:OD1	1:P:304:GLN:HB3	2.01	0.60
1:K:459:PRO:HB3	1:0:569:MET:CE	2.31	0.60
1:X:459:PRO:HB3	1:5:569:MET:CE	2.31	0.60
1:C:335:SER:N	1:C:435:THR:HG22	2.12	0.60
1:F:376:LYS:HD2	1:4:316:ASP:HA	172.07	0.60
1:K:569:MET:CE	1:1:459:PRO:HB3	2.31	0.60
1:L:376:LYS:HA	1:L:395:TRP:HA	1.83	0.60
1:W:294:ASP:OD1	1:W:304:GLN:HB3	2.01	0.60
1:W:459:PRO:HB3	1:X:569:MET:HE1	59.58	0.60
1:X:215:ASN:HB3	1:Z:281:TRP:CE3	96.08	0.60
1:X:376:LYS:HD2	1:Z:316:ASP:HA	101.61	0.60
1:X:459:PRO:HB3	1:Z:569:MET:CE	94.50	0.60
1:Y:294:ASP:OD1	1:Y:304:GLN:HB3	2.01	0.60
1:Y:376:LYS:HA	1:Y:395:TRP:HA	1.83	0.60
1:A:459:PRO:HB3	1:I:569:MET:CE	2.30	0.60
1:B:376:LYS:HA	1:B:395:TRP:HA	1.83	0.60
1:B:335:SER:N	1:B:435:THR:HG22	2.12	0.60
1:F:294:ASP:OD1	1:F:304:GLN:HB3	2.01	0.60
1:H:569:MET:CE	1:W:459:PRO:HB3	2.31	0.60
1:J:294:ASP:OD1	1:J:304:GLN:HB3	2.01	0.60
1:N:376:LYS:HA	1:N:395:TRP:HA	1.83	0.60
1:N:569:MET:CE	1:P:459:PRO:HB3	2.31	0.60
1:Q:569:MET:CE	1:R:459:PRO:HB3	59.05	0.60
1:R:569:MET:CE	1:S:459:PRO:HB3	2.31	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:W:376:LYS:HA	1:W:395:TRP:HA	1.83	0.60
1:V:459:PRO:HB3	1:X:569:MET:CE	2.31	0.60
1:W:459:PRO:HB3	1:X:569:MET:CE	59.02	0.60
1:H:459:PRO:HB3	1:Y:569:MET:CE	2.31	0.60
1:Z:376:LYS:HA	1:Z:395:TRP:HA	1.83	0.60
1:I:569:MET:CE	1:O:459:PRO:HB3	2.31	0.60
1:J:281:TRP:CE3	1:3:215:ASN:HB3	135.20	0.60
1:F:215:ASN:HB3	1:4:281:TRP:CE3	129.80	0.60
1:4:294:ASP:OD1	1:4:304:GLN:HB3	2.01	0.60
1:D:569:MET:CE	1:N:459:PRO:HB3	2.31	0.60
1:H:376:LYS:HD2	1:Y:316:ASP:HA	1.82	0.60
1:I:569:MET:CE	1:J:459:PRO:HB3	54.36	0.60
1:Q:376:LYS:HA	1:Q:395:TRP:HA	1.83	0.60
1:F:316:ASP:HA	1:T:376:LYS:HD2	145.59	0.60
1:T:569:MET:CE	1:4:459:PRO:HB3	2.31	0.60
1:V:569:MET:CE	1:5:459:PRO:HB3	2.31	0.60
1:Y:569:MET:CE	1:Z:459:PRO:HB3	59.02	0.60
1:I:316:ASP:HA	1:O:376:LYS:HD2	1.84	0.60
1:I:376:LYS:HD2	1:3:316:ASP:HA	175.55	0.60
1:L:335:SER:N	1:L:435:THR:HG22	2.12	0.60
1:O:316:ASP:HA	1:P:376:LYS:HD2	98.23	0.60
1:R:376:LYS:HD2	1:U:316:ASP:HA	1.83	0.60
1:T:569:MET:HE1	1:U:459:PRO:HB3	54.70	0.60
1:X:376:LYS:HA	1:X:395:TRP:HA	1.83	0.60
1:O:111:PHE:HD1	1:O:209:GLN:HA	1.64	0.60
1:O:376:LYS:HA	1:O:395:TRP:HA	1.83	0.60
1:3:376:LYS:HA	1:3:395:TRP:HA	1.83	0.60
1:7:376:LYS:HA	1:7:395:TRP:HA	1.83	0.60
1:A:281:TRP:CE3	1:G:215:ASN:HB3	2.36	0.60
1:A:459:PRO:HB3	1:I:569:MET:HE1	1.84	0.60
1:H:376:LYS:HA	1:H:395:TRP:HA	1.83	0.60
1:L:569:MET:CE	1:M:459:PRO:HB3	78.12	0.60
1:M:376:LYS:HA	1:M:395:TRP:HA	1.83	0.60
1:R:316:ASP:HA	1:S:376:LYS:HD2	1.83	0.60
1:V:376:LYS:HD2	1:X:316:ASP:HA	1.84	0.60
1:Y:316:ASP:HA	1:Z:376:LYS:HD2	62.18	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:Y:376:LYS:HD2	1:7:316:ASP:HA	175.55	0.60
1:D:316:ASP:HA	1:E:376:LYS:HD2	89.07	0.60
1:G:569:MET:CE	1:H:459:PRO:HB3	59.02	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:281:TRP:CE3	1:O:215:ASN:HB3	187.31	0.60
1:X:294:ASP:OD1	1:X:304:GLN:HB3	2.01	0.60
1:4:335:SER:N	1:4:435:THR:HG22	2.11	0.60
1:F:569:MET:CE	1:T:459:PRO:HB3	138.71	0.60
1:K:215:ASN:HB3	1:M:281:TRP:CE3	134.21	0.60
1:N:316:ASP:HA	1:O:376:LYS:HD2	62.16	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:O:217:TRP:CD1	1:O:239:ARG:HD2	2.37	0.60
1:A:217:TRP:CD1	1:A:239:ARG:HD2	2.37	0.60
1:A:569:MET:HE1	1:G:459:PRO:HB3	1.83	0.60
1:C:459:PRO:HB3	1:E:569:MET:CE	104.36	0.60
1:D:376:LYS:HA	1:D:395:TRP:HA	1.83	0.60
1:D:569:MET:HE1	1:E:459:PRO:HB3	86.06	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	106.91	0.60
1:M:459:PRO:HB3	1:2:569:MET:CE	2.31	0.60
1:N:376:LYS:HD2	1:P:316:ASP:HA	47.11	0.60
1:D:459:PRO:HB3	1:P:569:MET:CE	2.31	0.60
1:Q:459:PRO:HB3	1:S:569:MET:CE	86.84	0.60
1:U:217:TRP:CD1	1:U:239:ARG:HD2	2.37	0.60
1:T:316:ASP:HA	1:U:376:LYS:HD2	98.23	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:I:459:PRO:HB3	1:3:569:MET:CE	160.40	0.59
1:C:569:MET:CE	1:D:459:PRO:HB3	86.85	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	62.17	0.59
1:I:316:ASP:HA	1:J:376:LYS:HD2	98.23	0.59
1:B: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:C:376:LYS:HD2	1:M:316:ASP:HA	1.84	0.59
1:O:217:TRP:CD1	1:O:239:ARG:HD2	2.37	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
1:B:217:TRP:CD1	1:B:239:ARG:HD2	2.37	0.59
1:B:459:PRO:HB3	1:6:569:MET:CE	196.72	0.59
1:C:217:TRP:CD1	1:C:239:ARG:HD2	2.37	0.59
1:C:459:PRO:HB3	1:M:569:MET:HE1	1.82	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:569:MET:CE	1:2:459:PRO:HB3	2.31	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:O: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:Q:316:ASP:HA	1:R:376:LYS:HD2	62.21	0.59
1:T:316:ASP:HA	1:4:376:LYS:HD2	1.84	0.59
1:T:569:MET:CE	1:U:459:PRO:HB3	54.36	0.59
1:U:569:MET:CE	1:V:459:PRO:HB3	59.02	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:A:316:ASP:HA	1:6:376:LYS:HD2	160.56	0.59
1:A:376:LYS:HD2	1:B:316:ASP:HA	98.23	0.59
1:B:376:LYS:HD2	1:L:316:ASP:HA	1.84	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: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:A:376:LYS:HD2	1:I:316:ASP:HA	1.84	0.59
1:J:569:MET:CE	1:L:459:PRO:HB3	2.31	0.59
1:S:376:LYS:HA	1:S:395:TRP:HA	1.83	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
1:2:376:LYS:HA	1:2:395:TRP:HA	1.83	0.59
1:D:534:LEU:HD23	1:M:534:LEU:HD23	1.85	0.59
1:D:534:LEU:HD23	1:Q:534:LEU:HD23	121.21	0.59
1:D:82:ARG:HG2	1:D:86:PHE:CD2	2.38	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:E:316:ASP:HA	1:Q:376:LYS:HD2	1.84	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	62.16	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:A:316:ASP:HA	1:G:376:LYS:HD2	1.84	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:335:SER:N	1:G:435:THR:HG22	2.11	0.59
1:I:217:TRP:CD1	1:I:239:ARG:HD2	2.37	0.59
1:J:316:ASP:HA	1:L:376:LYS:HD2	1.84	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	107.88	0.59
1:P:217:TRP:CD1	1:P:239:ARG:HD2	2.37	0.59
1:X:82:ARG:HG2	1:X:86:PHE:CD2	2.38	0.59
1:W:534:LEU:HD23	1:1:534:LEU:HD23	120.42	0.59
1:3:82:ARG:HG2	1:3:86:PHE:CD2	2.38	0.59
1:B:376:LYS:HD2	1:6:316:ASP:HA	228.39	0.59
1:C:376:LYS:HD2	1:E:316:ASP:HA	141.31	0.59
1:E:82:ARG:HG2	1:E:86:PHE:CD2	2.38	0.59
1:C:534:LEU:HD23	1:F:534:LEU:HD23	102.43	0.59
1:B:534:LEU:HD23	1:I:534:LEU:HD23	1.85	0.59
1:J:534:LEU:HD23	1:K:534:LEU:HD23	1.85	0.59
1:J:82:ARG:HG2	1:J:86:PHE:CD2	2.38	0.59
1:H:316:ASP:HA	1:O:376:LYS:HD2	203.29	0.59
1:Q:534:LEU:HD23	1:R:534:LEU:HD23	1.83	0.59
1:S:217:TRP:CD1	1:S:239:ARG:HD2	2.37	0.59
1:S:82:ARG:HG2	1:S:86:PHE:CD2	2.38	0.59
1:A:534:LEU:HD23	1:T:534:LEU:HD23	119.63	0.59
1:T:82:ARG:HG2	1:T:86:PHE:CD2	2.38	0.59
1:H:316:ASP:HA	1:W:376:LYS:HD2	1.84	0.59
1:W:534:LEU:HD23	1:X:534:LEU:HD23	1.85	0.59
1:Z:82:ARG:HG2	1:Z:86:PHE:CD2	2.38	0.59
1:2:534:LEU:HD23	1:3:534:LEU:HD23	1.85	0.59
1:X:376:LYS:HD2	1:5:316:ASP:HA	1.84	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: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:O:335:SER:N	1:O:435:THR:HG22	2.12	0.59
1:O:82:ARG:HG2	1:O:86:PHE:CD2	2.38	0.59
1:0:82:ARG:HG2	1:0:86:PHE:CD2	2.38	0.59
1:2:217:TRP:CD1	1:2:239:ARG:HD2	2.37	0.59
1:C:316:ASP:HA	1:2:376:LYS:HD2	1.84	0.59
1:5:335:SER:N	1:5:435:THR:HG22	2.11	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:6:283:SER:H	1:6:286:HIS:CD2	2.15	0.59
1:B:217:TRP:CD2	1:B:239:ARG:HD2	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:R:217:TRP:CD1	1:R:239:ARG:HD2	2.37	0.59
1:U:316:ASP:HA	1:V:376:LYS:HD2	62.16	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
1:7:335:SER:N	1:7:435:THR:HG22	2.12	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:M:217:TRP:CD1	1:M:239:ARG:HD2	2.37	0.59
1:Q:376:LYS:HD2	1:S:316:ASP:HA	89.10	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:Y:82:ARG:HG2	1:Y:86:PHE:CD2	2.38	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
1:6:335:SER:N	1:6:435:THR:HG22	2.11	0.59
1:B:534:LEU:HD23	1:E:534:LEU:HD23	103.93	0.59
1:F:217:TRP:CD2	1:F:239:ARG:HD2	2.38	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
1:J:534:LEU:HD23	1:M:534:LEU:HD23	119.66	0.59
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:X:217:TRP:CD2	1:X:239:ARG:HD2	2.38	0.59
1:Y:217:TRP:CD2	1:Y:239:ARG:HD2	2.38	0.59
1:H:534:LEU:HD23	1:4:534:LEU:HD23	177.43	0.58
1:4:82:ARG:HG2	1:4:86:PHE:CD2	2.38	0.58
1:E:217:TRP:CD2	1:E:239:ARG:HD2	2.38	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: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:Q:217:TRP:CD1	1:Q:239:ARG:HD2	2.37	0.58
1:K:534:LEU:HD23	1:R:534:LEU:HD23	165.74	0.58
1:S:217:TRP:CD2	1:S:239:ARG:HD2	2.38	0.58

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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	0.58
1:V:534:LEU:HD23	1:X:534:LEU:HD23	63.34	0.58
1:7:82:ARG:HG2	1:7:86:PHE:CD2	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:D:217:TRP:CD2	1:D:239:ARG:HD2	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:Q:108:THR:HG23	1:Q:110:TRP:H	1.68	0.58
1:U:82:ARG:HG2	1:U:86:PHE:CD2	2.38	0.58
1:7:217:TRP:CD1	1:7:239:ARG:HD2	2.37	0.58
1:Z:316:ASP:HA	1:7:376:LYS:HD2	145.56	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:U:217:TRP:CD2	1:U:239:ARG:HD2	2.38	0.58
1:S:316:ASP:HA	1:U:376:LYS:HD2	1.84	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:B:63:ARG:NH1	1:B:201:PRO:HA	2.19	0.58
1:D:108:THR:HG23	1:D:110:TRP:H	1.69	0.58
1:J:63:ARG:NH1	1:J:201:PRO:HA	2.19	0.58
1:K:217:TRP:CD2	1:K:239:ARG:HD2	2.38	0.58
1:K:63:ARG:NH1	1:K:201:PRO:HA	2.19	0.58
1:L:63:ARG:NH1	1:L:201:PRO:HA	2.19	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:P:335:SER:N	1:P:435:THR:HG22	2.12	0.58
1:R:217:TRP:CD2	1:R:239:ARG:HD2	2.38	0.58
1:T:376:LYS:HD2	1:V:316:ASP:HA	101.61	0.58
1:Y:534:LEU:HD23	1:Z:534:LEU:HD23	1.85	0.58
1:E:63:ARG:NH1	1:E:201:PRO:HA	2.19	0.58
1:A:37:HIS:HE1	1:E:34:GLY:HA2	1.68	0.58
1:F:63:ARG:NH1	1:F: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:J:335:SER:H	1:J:435:THR:CG2	2.13	0.58
1:M:108:THR:HG23	1:M:110:TRP:H	1.69	0.58
1:O:217:TRP:CD2	1:O:239:ARG:HD2	2.38	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Q:217:TRP:CD2	1:Q:239:ARG:HD2	2.38	0.58
1:Q:82:ARG:HG2	1:Q:86:PHE:CD2	2.38	0.58
1:V:217:TRP:CD2	1:V:239:ARG:HD2	2.38	0.58
1:W:82:ARG:HG2	1:W:86:PHE:CD2	2.38	0.58
1:Y:108:THR:HG23	1:Y:110:TRP:H	1.69	0.58
1:Y:63:ARG:NH1	1:Y:201:PRO:HA	2.19	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
1:2:63: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:C:63:ARG:NH1	1:C:201:PRO:HA	2.19	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:X:108:THR:HG23	1:X:110:TRP:H	1.69	0.58
1:Z:108:THR:HG23	1:Z:110:TRP:H	1.69	0.58
1:4:108:THR:HG23	1:4:110:TRP:H	1.69	0.58
1:7:108:THR:HG23	1:7:110:TRP:H	1.69	0.58
1:H:34:GLY:HA2	1:L:37:HIS:HE1	100.06	0.58
1:G:37:HIS:HE1	1:M:34:GLY:HA2	153.08	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: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
1:1:82:ARG:HG2	1:1:86:PHE:CD2	2.38	0.58
1:M:376:LYS:HD2	1:2:316:ASP:HA	1.84	0.58
1:B:108:THR:HG23	1:B:110:TRP:H	1.69	0.58
1:D:63:ARG:NH1	1:D:201:PRO:HA	2.19	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	119.65	0.58
1:L:108:THR:HG23	1:L:110:TRP:H	1.69	0.58
1:S:534:LEU:HD23	1:T:534:LEU:HD23	1.85	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:108:THR:HG23	1:N:110:TRP:H	1.68	0.58
1:R:176:GLN:NE2	1:R:486:LYS:HE3	2.19	0.58
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:316:ASP:HA	1:D:376:LYS:HD2	89.07	0.58
1:K:108:THR:HG23	1:K:110:TRP:H	1.69	0.58
1:N:176:GLN:NE2	1:N:486:LYS:HE3	2.19	0.58
1:S:108:THR:HG23	1:S:110:TRP:H	1.69	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:X:335:SER:N	1:X:435:THR:HG22	2.11	0.58
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:F:108:THR:HG23	1:F:110:TRP:H	1.69	0.57
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:239:ARG:HB3	1:I:239:ARG:NH2	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:N:534:LEU:HD23	1:Y:534:LEU:HD23	194.56	0.57
1:O:108:THR:HG23	1:O:110:TRP:H	1.69	0.57
1:O:569:MET:HE1	1:P:459:PRO:HB3	54.70	0.57
1:P:108:THR:HG23	1:P:110:TRP:H	1.69	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:P:534:LEU:HD23	1:S:534:LEU:HD23	103.93	0.57
1:T:239:ARG:NH2	1:T:239:ARG:HB3	2.20	0.57
1:W:176:GLN:NE2	1:W:486:LYS:HE3	2.19	0.57
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
1:0:63:ARG:NH1	1:0:201: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: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:L:239:ARG:HB3	1:L:239:ARG:NH2	2.20	0.57
1:N:63:ARG:NH1	1:N:201:PRO:HA	2.19	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:R:63:ARG:NH1	1:R:201:PRO:HA	2.19	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:T:63:ARG:NH1	1:T:201:PRO:HA	2.19	0.57
1:V:63:ARG:NH1	1:V:201:PRO:HA	2.19	0.57
1:X:546:PHE:HA	1:X:555:GLU:O	2.05	0.57
1:I:534:LEU:HD23	1:Z:534:LEU:HD23	103.93	0.57
1:O:546:PHE:HA	1:O:555:GLU:O	2.04	0.57
1:4:217:TRP:CD2	1:4:239:ARG:HD2	2.38	0.57
1:F:193:TYR:HA	1:4:311:GLY:HA3	160.34	0.57
1:A:63:ARG:NH1	1:A:201:PRO:HA	2.19	0.57
1:J:546:PHE:HA	1:J:555:GLU:O	2.04	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: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:239:ARG:NH2	1:V:239:ARG:HB3	2.20	0.57
1:V:546:PHE:HA	1:V:555:GLU:O	2.05	0.57
1:W:239:ARG:NH2	1:W:239:ARG:HB3	2.20	0.57
1:W:335:SER:N	1:W:435:THR:HG22	2.11	0.57
1:X:34:GLY:HA2	1:Y:37:HIS:HE1	11.10	0.57
1:Y:546:PHE:HA	1:Y:555:GLU:O	2.04	0.57
1:J:311:GLY:HA3	1:3:193:TYR:HA	109.62	0.57
1:3:239:ARG:NH2	1:3:239:ARG:HB3	2.19	0.57
1:7:63:ARG:NH1	1:7:201:PRO:HA	2.19	0.57
1:7:534:LEU:HD23	1:O:534:LEU:HD23	1.85	0.57
1:7:546:PHE:HA	1:7:555:GLU:O	2.05	0.57
1:A:239:ARG:HB3	1:A:239:ARG:NH2	2.20	0.57
1:A:176:GLN:NE2	1:A:486:LYS:HE3	2.19	0.57
1:B:239:ARG:HB3	1:B:239:ARG:NH2	2.19	0.57
1:E:459:PRO:HB3	1:F:569:MET:HE1	1.85	0.57
1:F:239:ARG:NH2	1:F:239:ARG:HB3	2.20	0.57
1:G:63:ARG:NH1	1:G:201:PRO:HA	2.19	0.57
1:I:108:THR:HG23	1:I:110:TRP:H	1.69	0.57
1:M:239:ARG:NH2	1:M:239:ARG:HB3	2.19	0.57
1:Q:239:ARG:NH2	1:Q:239:ARG:HB3	2.19	0.57
1:T:176:GLN:NE2	1:T:486:LYS:HE3	2.19	0.57
1:U:534:LEU:HD23	1:V:534:LEU:HD23	1.85	0.57
1:H:34:GLY:HA2	1:Z:37:HIS:HE1	1.69	0.57
1:I:108:THR:HG23	1:I:110:TRP:H	1.69	0.57
1:4:546:PHE:HA	1:4:555:GLU:O	2.05	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:459:PRO:HB3	1:4:569:MET:HE1	126.24	0.57
1:7:217:TRP:CD2	1:7:239:ARG:HD2	2.38	0.57
1:E:108:THR:HG23	1:E:110:TRP:H	1.69	0.57
1:F:311:GLY:HA3	1:T:193:TYR:HA	151.49	0.57
1:F:137:VAL:HG21	1:F:519:LEU:HD23	1.87	0.57
1:A:534:LEU:HD23	1:F:534:LEU:HD23	1.85	0.57
1:G:176:GLN:NE2	1:G:486:LYS:HE3	2.19	0.57
1:G:137:VAL:HG21	1:G:519:LEU:HD23	1.87	0.57
1:H:239:ARG:HB3	1:H:239:ARG:NH2	2.20	0.57
1:I:176:GLN:NE2	1:I:486:LYS:HE3	2.19	0.57
1:K:311:GLY:HA3	1:L:193:TYR:HA	80.89	0.57
1:L:335:SER:H	1:L:435:THR:CG2	2.13	0.57
1:G:193:TYR:HA	1:O:311:GLY:HA3	188.91	0.57
1:O:534:LEU:HD23	1:U:534:LEU:HD23	145.52	0.57
1:Q:176:GLN:NE2	1:Q:486:LYS:HE3	2.19	0.57
1:D:37:HIS:HE1	1:R:34:GLY:HA2	100.18	0.57
1:S:546:PHE:HA	1:S:555:GLU:O	2.04	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
1:1:137:VAL:HG21	1:1:519:LEU:HD23	1.87	0.57
1:I:193:TYR:HA	1:3:311:GLY:HA3	162.44	0.57
1:X:34:GLY:HA2	1:6:37:HIS:HE1	1.70	0.57
1:7:137:VAL:HG21	1:7:519:LEU:HD23	1.87	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:J:569:MET:HE1	1:3:459:PRO:HB3	116.24	0.57
1:L:137:VAL:HG21	1:L:519:LEU:HD23	1.87	0.57
1:M:37:HIS:HE1	1:N:34:GLY:HA2	1.70	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: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:V:176:GLN:NE2	1:V:486:LYS:HE3	2.19	0.57
1:V:137:VAL:HG21	1:V:519:LEU:HD23	1.87	0.57
1:W:569:MET:HE1	1:Y:459:PRO:HB3	1.87	0.57
1:X:63:ARG:NH1	1:X:201:PRO:HA	2.19	0.57
1:W:569:MET:HE1	1:Z:459:PRO:HB3	73.42	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:6:546:PHE:HA	1:6:555:GLU:O	2.05	0.57
1:B:176:GLN:NE2	1:B:486:LYS:HE3	2.19	0.57
1:B:193:TYR:HA	1:6:311:GLY:HA3	214.90	0.57
1:B:37:HIS:HE1	1:C:34:GLY:HA2	11.09	0.57
1:B:546:PHE:HA	1:B:555:GLU:O	2.05	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: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:311:GLY:HA3	1:L:193:TYR:HA	1.87	0.57
1:J:37:HIS:HE1	1:1:34:GLY:HA2	1.70	0.57
1:O:239:ARG:HB3	1:O:239:ARG:NH2	2.20	0.57
1:P:546:PHE:HA	1:P:555:GLU:O	2.05	0.57
1:Q:546:PHE:HA	1:Q:555:GLU:O	2.04	0.57
1:T:108:THR:HG23	1:T:110:TRP:H	1.69	0.57
1:T:546:PHE:HA	1:T:555:GLU:O	2.04	0.57
1:R:193:TYR:HA	1:U:311:GLY:HA3	1.87	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
1:1:63: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:NH2	1:4:239:ARG:HB3	2.19	0.57
1:Y:193:TYR:HA	1:7:311:GLY:HA3	162.44	0.57
1:A:108:THR:HG23	1:A:110:TRP:H	1.69	0.57
1:C:217:TRP:NE1	1:C:239:ARG:HD2	2.20	0.57
1:C:546:PHE:HA	1:C:555:GLU:O	2.04	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:J:239:ARG:NH2	1:J:239:ARG:HB3	2.20	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:L:37:HIS:HE1	1:2:34:GLY:HA2	1.70	0.57
1:L:546:PHE:HA	1:L:555:GLU:O	2.04	0.57
1:M:335:SER:H	1:M:435:THR:CG2	2.13	0.57
1:D:193:TYR:HA	1:P:311:GLY:HA3	1.87	0.57
1:K:37:HIS:HE1	1:S:34:GLY:HA2	153.57	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	51.52	0.57
1:O:137:VAL:HG21	1:O:519:LEU:HD23	1.87	0.57
1:1:239:ARG:NH2	1:1:239:ARG:HB3	2.20	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:3:546:PHE:HA	1:3:555:GLU:O	2.04	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:E:176:GLN:NE2	1:E:486:LYS:HE3	2.19	0.57
1:F:546:PHE:HA	1:F:555:GLU:O	2.04	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:P:63:ARG:NH1	1:P:201:PRO:HA	2.19	0.57
1:S:176:GLN:NE2	1:S:486:LYS:HE3	2.19	0.57
1:X:239:ARG:HB3	1:X:239:ARG:NH2	2.19	0.57
1:X:459:PRO:HB3	1:5:569:MET:HE1	1.87	0.57
1:Y:311:GLY:HA3	1:Z:193:TYR:HA	51.53	0.57
1:X:193:TYR:HA	1:Z:311:GLY:HA3	82.24	0.57
1:Z:176:GLN:NE2	1:Z:486:LYS:HE3	2.19	0.57
1:7:239:ARG:NH2	1:7:239:ARG:HB3	2.20	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:J:37:HIS:HE1	1:K:34:GLY:HA2	84.98	0.57
1:O:37:HIS:HE1	1:P:34:GLY:HA2	1.70	0.57
1:P:137:VAL:HG21	1:P:519:LEU:HD23	1.87	0.57
1:Q:217:TRP:NE1	1:Q:239:ARG:HD2	2.20	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:R:335:SER:N	1:R:435:THR:HG22	2.12	0.57
1:Q:193:TYR:HA	1:S:311:GLY:HA3	93.70	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:Y:176:GLN:NE2	1:Y:486:LYS:HE3	2.19	0.57
1:W:311:GLY:HA3	1:Y:193:TYR:HA	1.87	0.57
1:Y:239:ARG:HB3	1:Y:239:ARG:NH2	2.20	0.57
1:Z:239:ARG:NH2	1:Z:239:ARG:HB3	2.20	0.57
1:Z:137:VAL:HG21	1:Z:519:LEU:HD23	1.87	0.57
1:0:335:SER:N	1:0:435:THR:HG22	2.11	0.56
1:2:108:THR:HG23	1:2:110:TRP:H	1.69	0.56
1:5:239:ARG:HB3	1:5:239:ARG:NH2	2.19	0.56
1:5:63:ARG:NH1	1:5:201:PRO:HA	2.19	0.56
1:D:311:GLY:HA3	1:N:193:TYR:HA	1.87	0.56
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:459:PRO:HB3	1:Q:569:MET:HE2	1.85	0.56
1:L:217:TRP:NE1	1:L:239:ARG:HD2	2.20	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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: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: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:P:34:GLY:HA2	1:U:37:HIS:HE1	100.06	0.56
1:O:176:GLN:NE2	1:O:486:LYS:HE3	2.19	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
1:7:217:TRP:NE1	1:7:239:ARG:HD2	2.20	0.56
1:A:137:VAL:HG21	1:A:519:LEU:HD23	1.87	0.56
1:B:217:TRP:NE1	1:B:239:ARG:HD2	2.20	0.56
1:B:459:PRO:HB3	1:6:569:MET:HE1	196.29	0.56
1:F:152:LYS:HA	1:F:169:ASN:HA	1.87	0.56
1:I:217:TRP:NE1	1:I:239:ARG:HD2	2.20	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:K:137:VAL:HG21	1:K:519:LEU:HD23	1.87	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:R:137:VAL:HG21	1:R:519:LEU:HD23	1.87	0.56
1:Q:311:GLY:HA3	1:R:193:TYR:HA	51.57	0.56
1:S:137:VAL:HG21	1:S:519:LEU:HD23	1.87	0.56
1:C:37:HIS:HE1	1:T:34:GLY:HA2	153.56	0.56
1:T:34:GLY:HA2	1:X:37:HIS:HE1	100.06	0.56
1:T:335:SER:N	1:T:435:THR:HG22	2.12	0.56
1:S:311:GLY:HA3	1:U:193:TYR:HA	1.87	0.56
1:V:37:HIS:HE1	1:W:34:GLY:HA2	11.10	0.56
1:V:335:SER:N	1:V:435:THR:HG22	2.11	0.56
1:H:311:GLY:HA3	1:W:193:TYR:HA	1.87	0.56
1:W:193:TYR:HA	1:X:311:GLY:HA3	51.52	0.56
1:W:311:GLY:HA3	1:Z:193:TYR:HA	62.56	0.56
1:O:239:ARG:NH2	1:O:239:ARG:HB3	2.20	0.56
1:I:34:GLY:HA2	1:2:37:HIS:HE1	100.18	0.56
1:6:239:ARG:NH2	1:6:239:ARG:HB3	2.20	0.56
1:Z:311:GLY:HA3	1:7:193:TYR:HA	151.47	0.56
1:7:176:GLN:NE2	1:7:486:LYS:HE3	2.19	0.56
1:D:34:GLY:HA2	1:F:37:HIS:HE1	91.74	0.56
1:H:37:HIS:HE1	1:I:34:GLY:HA2	1.70	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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: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:Y:137:VAL:HG21	1:Y:519:LEU:HD23	1.87	0.56
1:2:546:PHE:HA	1:2:555:GLU:O	2.04	0.56
1:3:217:TRP:NE1	1:3:239:ARG:HD2	2.20	0.56
1:3:176:GLN:NE2	1:3:486:LYS:HE3	2.19	0.56
1:U:37:HIS:HE1	1:5:34:GLY:HA2	1.70	0.56
1:7:152:LYS:HA	1:7:169:ASN:HA	1.87	0.56
1:A:217:TRP:NE1	1:A:239:ARG:HD2	2.20	0.56
1:A:459:PRO:HB3	1:B:569:MET:HE1	54.71	0.56
1:F:37:HIS:HE1	1:G:34:GLY:HA2	1.71	0.56
1:G:311:GLY:HA3	1:I:193:TYR:HA	1.87	0.56
1:G:37:HIS:HE1	1:W:34:GLY:HA2	1.70	0.56
1:G:546:PHE:HA	1:G:555:GLU:O	2.05	0.56
1:I:137:VAL:HG21	1:I:519:LEU:HD23	1.87	0.56
1:M:34:GLY:HA2	1:3:37:HIS:HE1	1.70	0.56
1:N:34:GLY:HA2	1:S:37:HIS:HE1	91.94	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:217:TRP:NE1	1:R:239:ARG:HD2	2.20	0.56
1:U:152:LYS:HA	1:U:169:ASN:HA	1.87	0.56
1:T:193:TYR:HA	1:V:311:GLY:HA3	82.24	0.56
1:W:152:LYS:HA	1:W:169:ASN:HA	1.87	0.56
1:Y:335:SER:H	1:Y:435:THR:CG2	2.13	0.56
1:1:311:GLY:HA3	1:0:193:TYR:HA	1.87	0.56
1:1:217:TRP:NE1	1:1:239:ARG:HD2	2.20	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:217:TRP:NE1	1:F: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:A:311:GLY:HA3	1:G:193:TYR:HA	1.88	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:S:152:LYS:HA	1:S:169:ASN:HA	1.88	0.56
1:T:311:GLY:HA3	1:4:193:TYR:HA	1.87	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:T:137:VAL:HG21	1:T:519:LEU:HD23	1.87	0.56
1:V:152:LYS:HA	1:V:169:ASN:HA	1.88	0.56
1:W:108:THR:HG23	1:W:110:TRP:H	1.69	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:V:311:GLY:HA3	1:5:193:TYR:HA	1.87	0.56
1:B:34:GLY:HA2	1:5:37:HIS:HE1	156.40	0.56
1:5:176:GLN:NE2	1:5:486:LYS:HE3	2.19	0.56
1:B:193:TYR:HA	1:L:311:GLY:HA3	1.87	0.56
1:A:193:TYR:HA	1:B:311:GLY:HA3	80.90	0.56
1:B:137:VAL:HG21	1:B:519:LEU:HD23	1.87	0.56
1:J:137:VAL:HG21	1:J:519:LEU:HD23	1.87	0.56
1:K:152:LYS:HA	1:K:169:ASN:HA	1.87	0.56
1:K:176:GLN:NE2	1:K:486:LYS:HE3	2.19	0.56
1:K:37:HIS:HE1	1:L:34:GLY:HA2	1.71	0.56
1:P:152:LYS:HA	1:P:169:ASN:HA	1.88	0.56
1:S:217:TRP:NE1	1:S:239:ARG:HD2	2.20	0.56
1:W:546:PHE:HA	1:W:555:GLU:O	2.05	0.56
1:Z:152:LYS:HA	1:Z:169:ASN:HA	1.87	0.56
1:K:193:TYR:HA	1:0:311:GLY:HA3	1.87	0.56
1:6:217:TRP:NE1	1:6:239:ARG:HD2	2.20	0.56
1:6:137:VAL:HG21	1:6:519:LEU:HD23	1.87	0.56
1:I:311:GLY:HA3	1:J:193:TYR:HA	80.89	0.56
1:M:217:TRP:NE1	1:M:239:ARG:HD2	2.20	0.56
1:N:37:HIS:HE1	1:Z:34:GLY:HA2	156.98	0.56
1:Q:152:LYS:HA	1:Q:169:ASN:HA	1.88	0.56
1:V:217:TRP:NE1	1:V:239:ARG:HD2	2.20	0.56
1:O:37:HIS:HE1	1:V:34:GLY:HA2	97.30	0.56
1:X:393:GLN:NE2	1:Z:318:SER:CB	92.92	0.56
1:Y:217:TRP:NE1	1:Y:239:ARG:HD2	2.20	0.56
1:3:152:LYS:HA	1:3:169:ASN:HA	1.87	0.56
1:B:34:GLY:HA2	1:C:37:HIS:HE1	1.70	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:O:311:GLY:HA3	1:P:193:TYR:HA	80.89	0.56
1:P:275:THR:HG21	1:P:472:PRO:HB2	1.88	0.56
1:T:311:GLY:HA3	1:U:193:TYR:HA	80.89	0.56
1:H:393:GLN:NE2	1:Y:318:SER:CB	2.69	0.56
1:Z:217:TRP:NE1	1:Z:239:ARG:HD2	2.20	0.56
1:0:217:TRP:NE1	1:0:239:ARG:HD2	2.20	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Y:34:GLY:HA2	1:O:37:HIS:HE1	100.19	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:N:193:TYR:HA	1:P:311:GLY:HA3	51.14	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:U:275:THR:HG21	1:U:472:PRO:HB2	1.88	0.56
1:A:37:HIS:HE1	1:U:34:GLY:HA2	145.37	0.56
1:Y:152:LYS:HA	1:Y: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	93.70	0.56
1:K:217:TRP:NE1	1:K:239:ARG:HD2	2.20	0.56
1:L:58:VAL:HG22	1:L:518:ILE:HG12	1.88	0.56
1:N:275:THR:HG21	1:N:472:PRO:HB2	1.88	0.56
1:V:34:GLY:HA2	1:W:37:HIS:HE1	1.70	0.56
1:1:58:VAL:HG22	1:1:518:ILE:HG12	1.88	0.56
1:C:311:GLY:HA3	1:2:193:TYR:HA	1.87	0.56
1:A:34:GLY:HA2	1:E:37:HIS:HE1	11.07	0.56
1:B:58:VAL:HG22	1:B:518:ILE:HG12	1.88	0.56
1:C:152:LYS:HA	1:C:169:ASN:HA	1.87	0.56
1:E:335:SER:H	1:E:435:THR:CG2	2.13	0.56
1:H:58:VAL:HG22	1:H:518:ILE:HG12	1.88	0.56
1:I:37:HIS:HE1	1:J:34:GLY:HA2	1.70	0.56
1:L:311:GLY:HA3	1:M:193:TYR:HA	100.72	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:O:275:THR:HG21	1:O:472:PRO:HB2	1.88	0.56
1:Q:275:THR:HG21	1:Q:472:PRO:HB2	1.88	0.56
1:W:58:VAL:HG22	1:W:518:ILE:HG12	1.88	0.56
1:5:217:TRP:NE1	1:5:239:ARG:HD2	2.20	0.55
1:T:37:HIS:HE1	1:6:34:GLY:HA2	91.94	0.55
1:Z:569:MET:HE1	1:7:459:PRO:HB3	137.74	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	122.08	0.55
1:D:137:VAL:HG21	1:D:519:LEU:HD23	1.87	0.55
1:E:152:LYS:HA	1:E:169:ASN:HA	1.87	0.55
1:F:275:THR:HG21	1:F:472:PRO:HB2	1.88	0.55
1:G:217:TRP:NE1	1:G:239:ARG:HD2	2.20	0.55
1:L:152:LYS:HA	1:L:169:ASN:HA	1.88	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:468:SER:OG	1:L:471:ALA:O	2.21	0.55
1:M:37:HIS:HE1	1:3:34:GLY:HA2	11.10	0.55
1:N:311:GLY:HA3	1:O:193:TYR:HA	51.52	0.55
1:O:217:TRP:NE1	1:O: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:W:37:HIS:HE1	1:0:34:GLY:HA2	150.30	0.55
1:X:58:VAL:HG22	1:X:518:ILE:HG12	1.88	0.55
1:J:34:GLY:HA2	1:Z:37:HIS:HE1	11.76	0.55
1:6:58:VAL:HG22	1:6:518:ILE:HG12	1.88	0.55
1:D:58:VAL:HG22	1:D:518:ILE:HG12	1.88	0.55
1:G:318:SER:CB	1:H:393:GLN:NE2	55.94	0.55
1:G:468:SER:OG	1:G:471:ALA:O	2.21	0.55
1:G:58:VAL:HG22	1:G:518:ILE:HG12	1.88	0.55
1:H:152:LYS:HA	1:H:169:ASN:HA	1.88	0.55
1:G:311:GLY:HA3	1:H:193:TYR:HA	51.52	0.55
1:J:58:VAL:HG22	1:J:518:ILE:HG12	1.88	0.55
1:L:318:SER:CB	1:M:393:GLN:NE2	110.41	0.55
1:M:152:LYS:HA	1:M:169:ASN:HA	1.87	0.55
1:P:58:VAL:HG22	1:P:518:ILE:HG12	1.88	0.55
1:Q:58:VAL:HG22	1:Q: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
1:0:335:SER:H	1:0:435:THR:CG2	2.13	0.55
1:2:137:VAL:HG21	1:2:519:LEU:HD23	1.87	0.55
1:M:193:TYR:HA	1:2:311:GLY:HA3	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: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:F:34:GLY:HA2	1:H:37:HIS:HE1	90.24	0.55
1:I:152:LYS:HA	1:I:169:ASN:HA	1.88	0.55
1:I:58:VAL:HG22	1:I:518:ILE:HG12	1.88	0.55
1:J:275:THR:HG21	1:J: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: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
1:1:152:LYS:HA	1:1:169:ASN:HA	1.87	0.55
1:7:58:VAL:HG22	1:7:518:ILE:HG12	1.88	0.55
1:A:152:LYS:HA	1:A:169:ASN:HA	1.87	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:E:58:VAL:HG22	1:E:518:ILE:HG12	1.89	0.55
1:I:37:HIS:HE1	1:7:34:GLY:HA2	91.09	0.55
1:K:193:TYR:HA	1:M:311:GLY:HA3	108.29	0.55
1:K:275:THR:HG21	1:K:472:PRO:HB2	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: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:O:34:GLY:HA2	1:Y:37:HIS:HE1	156.99	0.55
1:Y:58:VAL:HG22	1:Y:518:ILE:HG12	1.88	0.55
1:O:152:LYS:HA	1:O:169:ASN:HA	1.87	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
1:7:217:TRP:CE2	1:7:239:ARG:CD	2.90	0.55
1:H:339:TRP:HE3	1:H:350:ILE:HD11	1.72	0.55
1:K:311:GLY:HA3	1:1:193:TYR:HA	1.87	0.55
1:M:339:TRP:HE3	1:M:350:ILE:HD11	1.72	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:O:339:TRP:HE3	1:O:350:ILE:HD11	1.72	0.55
1:J:318:SER:CB	1:3:393:GLN:NE2	109.01	0.55
1:A:311:GLY:HA3	1:6:193:TYR:HA	150.35	0.55
1:A:569:MET:HE1	1:6:459:PRO:HB3	157.79	0.55
1:6:275:THR:HG21	1:6:472:PRO:HB2	1.88	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:D:311:GLY:HA3	1:E:193:TYR:HA	93.70	0.55
1:H:176:GLN:NE2	1:H:486:LYS:HE3	2.19	0.55
1:H:311:GLY:HA3	1:O:193:TYR:HA	183.00	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:C:193:TYR:HA	1:M:311:GLY:HA3	1.87	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: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: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:O:275:THR:HG21	1:O:472:PRO:HB2	1.88	0.55
1:1:217:TRP:CE2	1:1:239:ARG:CD	2.90	0.55
1:1:176:GLN:NE2	1:1:486:LYS:HE3	2.19	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:F:393:GLN:NE2	1:4:318:SER:CB	179.32	0.55
1:A:339:TRP:HE3	1:A:350:ILE:HD11	1.72	0.55
1:E:34:GLY:HA2	1:Q:37:HIS:HE1	91.03	0.55
1:F:217:TRP:CE2	1:F:239:ARG:CD	2.90	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:L:275:THR:HG21	1:L:472:PRO:HB2	1.88	0.55
1:R:58:VAL:HG22	1:R:518:ILE:HG12	1.88	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:X:176:GLN:NE2	1:X:486:LYS:HE3	2.19	0.55
1:X:275:THR:HG21	1:X:472:PRO:HB2	1.88	0.55
1:2:152:LYS:HA	1:2:169:ASN:HA	1.87	0.55
1:A:217:TRP:CE2	1:A:239:ARG:CD	2.90	0.55
1:A:58:VAL:HG22	1:A:518:ILE:HG12	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:C:217:TRP:CE2	1:C:239:ARG:CD	2.90	0.55
1:H:275:THR:HG21	1:H:472:PRO:HB2	1.88	0.55
1:J:339:TRP:HE3	1:J:350:ILE:HD11	1.72	0.55
1:M:275:THR:HG21	1:M:472:PRO:HB2	1.88	0.55
1:N:318:SER:CB	1:O:393:GLN:NE2	55.93	0.55
1:K:459:PRO:HB3	1:O:569:MET:HE1	1.88	0.55
1:4:339:TRP:HE3	1:4:350:ILE:HD11	1.72	0.55
1:C:34:GLY:HA2	1:D:37:HIS:HE1	1.71	0.55
1:F:34:GLY:HA2	1:R:37:HIS:HE1	1.70	0.55
1:J:217:TRP:CE2	1:J:239:ARG:CD	2.90	0.55
1:W:275:THR:HG21	1:W:472:PRO:HB2	1.88	0.55
1:W:318:SER:CB	1:Z:393:GLN:NE2	53.85	0.55
1:Z:335:SER:H	1:Z:435:THR:CG2	2.13	0.55
1:4:217:TRP:CE2	1:4:239:ARG:CD	2.90	0.55
1:D:34:GLY:HA2	1:E:37:HIS:HE1	1.70	0.55
1:C:459:PRO:HB3	1:E:569:MET:HE2	103.60	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:217:TRP:O	1:F:236:LYS:HA	2.07	0.55
1:J:468:SER:OG	1:J:471:ALA:O	2.22	0.55
1:K:339:TRP:HE3	1:K:350:ILE:HD11	1.72	0.55
1:L:339:TRP:HE3	1:L:350:ILE:HD11	1.72	0.55
1:B:459:PRO:HB3	1:L:569:MET:HE1	1.88	0.55
1:P:37:HIS:HE1	1:Q:34:GLY:HA2	1.76	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:551:ILE:HD11	1:Z:298:ALA:HA	1.89	0.55
1:Y:298:ALA:HA	1:Z:551:ILE:HD11	1.89	0.55
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
1:7:217:TRP:O	1:7:236:LYS:HA	2.08	0.54
1:B:393:GLN:NE2	1:6:318:SER:CB	231.70	0.54
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:G:339:TRP:HE3	1:G:350:ILE:HD11	1.72	0.54
1:K:217:TRP:O	1:K:236:LYS:HA	2.07	0.54
1:J:318:SER:CB	1:L:393:GLN:NE2	2.71	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:O	1:P:236:LYS:HA	2.08	0.54
1:P:217:TRP:CE2	1:P:239:ARG:CD	2.90	0.54
1:S:318:SER:CB	1:U:393:GLN:NE2	2.71	0.54
1:R:318:SER:CB	1:S:393:GLN:NE2	2.70	0.54
1:V:569:MET:HE1	1:5:459:PRO:HB3	1.88	0.54
1:Y:318:SER:CB	1:Z:393:GLN:NE2	55.95	0.54
1:7:275:THR:HG21	1:7:472:PRO:HB2	1.88	0.54
1:B:217:TRP:O	1:B:236:LYS:HA	2.08	0.54
1:A:393:GLN:NE2	1:B:318:SER:CB	99.64	0.54
1:C:339:TRP:HE3	1:C:350:ILE:HD11	1.72	0.54
1:E:298:ALA:HA	1:P:551:ILE:HD11	1.90	0.54
1:C:393:GLN:NE2	1:E:318:SER:CB	141.15	0.54
1:E:339:TRP:HE3	1:E:350:ILE:HD11	1.72	0.54
1:E:393:GLN:NE2	1:F:318:SER:CB	2.70	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:L:217:TRP:O	1:L:236:LYS:HA	2.07	0.54
1:B:393:GLN:NE2	1:L:318:SER:CB	2.70	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:O:217:TRP:O	1:O:236:LYS:HA	2.08	0.54
1:E:311:GLY:HA3	1:Q:193:TYR:HA	1.88	0.54
1:K:298:ALA:HA	1:R:551:ILE:HD11	172.59	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	92.93	0.54
1:U:217:TRP:O	1:U:236:LYS:HA	2.08	0.54
1:V:58:VAL:HG22	1:V:518:ILE:HG12	1.88	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
1:1:217:TRP:O	1:1:236:LYS:HA	2.08	0.54
1:K:318:SER:CB	1:1:393:GLN:NE2	2.70	0.54
1:A:34:GLY:HA2	1:B:37:HIS:HE1	1.72	0.54
1:D:318:SER:CB	1:E:393:GLN:NE2	94.12	0.54
1:D:318:SER:CB	1:N: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:F:339:TRP:HE3	1:F:350:ILE:HD11	1.72	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:O:117:SER:HB2	1:O:191:ASN:HD21	1.73	0.54
1:R:117:SER:HB2	1:R:191:ASN:HD21	1.73	0.54
1:R:217:TRP:O	1:R:236:LYS:HA	2.07	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	99.64	0.54
1:W:217:TRP:O	1:W:236:LYS:HA	2.08	0.54
1:X:217:TRP:O	1:X:236:LYS:HA	2.08	0.54
1:Z:117:SER:HB2	1:Z:191:ASN:HD21	1.73	0.54
1:Z:318:SER:CB	1:7:393:GLN:NE2	154.75	0.54
1:Z:58:VAL:HG22	1:Z:518:ILE:HG12	1.88	0.54
1:A:217:TRP:O	1:A:236:LYS:HA	2.08	0.54
1:D:217:TRP:O	1:D:236:LYS:HA	2.07	0.54
1:D:339:TRP:HE3	1:D:350:ILE:HD11	1.72	0.54
1:D:393:GLN:NE2	1:P:318:SER:CB	2.71	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	99.64	0.54
1:N:117:SER:HB2	1:N:191:ASN:HD21	1.73	0.54
1:G:393:GLN:NE2	1:O:318:SER:CB	211.66	0.54
1:P:339:TRP:HE3	1:P:350:ILE:HD11	1.72	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Q:393:GLN:NE2	1:S:318:SER:CB	94.14	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	94.12	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:393:GLN:NE2	1:M:318:SER:CB	108.40	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:217:TRP:CE2	1:M:239:ARG:CD	2.90	0.54
1:C:393:GLN:NE2	1:M:318:SER:CB	2.71	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:H:318:SER:CB	1:O:393:GLN:NE2	200.46	0.54
1:Q:318:SER:CB	1:R:393:GLN:NE2	55.98	0.54
1:R:217:TRP:CE2	1:R:239:ARG:CD	2.90	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:T:117:SER:HB2	1:T:191:ASN:HD21	1.73	0.54
1:X:393:GLN:NE2	1:5:318:SER:CB	2.71	0.54
1:Y:217:TRP:O	1:Y:236:LYS:HA	2.08	0.54
1:6:217:TRP:O	1:6:236:LYS:HA	2.08	0.54
1:A:318:SER:CB	1:6:393:GLN:NE2	157.45	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:H:217:TRP:O	1:H:236:LYS:HA	2.08	0.54
1:H:459:PRO:HB3	1:Y:569:MET:HE1	1.90	0.54
1:I:339:TRP:HE3	1:I:350:ILE:HD11	1.72	0.54
1:L:34:GLY:HA2	1:R:37:HIS:HE1	147.98	0.54
1:T:339:TRP:HE3	1:T:350:ILE:HD11	1.72	0.54
1:U:318:SER:CB	1:V:393:GLN:NE2	55.93	0.54
1:W:298:ALA:HA	1:X:551:ILE:HD11	1.89	0.54
1:X:117:SER:HB2	1:X:191:ASN:HD21	1.73	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
1:0:58:VAL:HG22	1:0:518:ILE:HG12	1.88	0.54
1:W:298:ALA:HA	1:1:551:ILE:HD11	115.18	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: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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:J:217:TRP:O	1:J:236:LYS:HA	2.08	0.54
1:K:217:TRP:CE2	1:K:239:ARG:CD	2.90	0.54
1:P:298:ALA:HA	1:S:551:ILE:HD11	126.76	0.54
1:Q:117:SER:HB2	1:Q:191:ASN:HD21	1.73	0.54
1:O:217:TRP:O	1:O:236:LYS:HA	2.08	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:I:393:GLN:NE2	1:3:318:SER:CB	173.10	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: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:K:569:MET:HE1	1:1:459:PRO:HB3	1.90	0.54
1:G:298:ALA:HA	1:L:551:ILE:HD11	140.34	0.54
1:G:34:GLY:HA2	1:N:37:HIS:HE1	150.30	0.54
1:V:217:TRP:O	1:V:236:LYS:HA	2.08	0.54
1:V:217:TRP:CE2	1:V:239:ARG:CD	2.90	0.54
1:V:318:SER:CB	1:5:393:GLN:NE2	2.71	0.54
1:1:318:SER:CB	1:O:393:GLN:NE2	2.71	0.54
1:2:298:ALA:HA	1:3:551:ILE:HD11	1.90	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:C:298:ALA:HA	1:F:551:ILE:HD11	167.17	0.54
1:D:217:TRP:CE2	1:D:239:ARG:CD	2.90	0.54
1:D:406:ASN:CB	1:N:342:HIS:HE1	2.21	0.54
1:D:551:ILE:HD11	1:Q:298:ALA:HA	139.36	0.54
1:F:318:SER:CB	1:T:393:GLN:NE2	154.77	0.54
1:G:551:ILE:HD11	1:L:298:ALA:HA	140.35	0.54
1:G:569:MET:HE1	1:H:459:PRO:HB3	59.61	0.54
1:D:298:ALA:HA	1:M:551:ILE:HD11	1.90	0.54
1:O:318:SER:CB	1:P:393:GLN:NE2	99.64	0.54
1:O:58:VAL:HG22	1:O:518:ILE:HG12	1.89	0.54
1:U:117:SER:HB2	1:U:191:ASN:HD21	1.73	0.54
1:V:551:ILE:HD11	1:X:298:ALA:HA	42.99	0.54
1:V:393:GLN:NE2	1:X:318:SER:CB	2.71	0.54
1:O:117:SER:HB2	1:O:191:ASN:HD21	1.73	0.54
1:3:58:VAL:HG22	1:3:518:ILE:HG12	1.88	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:5:298:ALA:HA	1:6:551:ILE:HD11	1.90	0.54
1:7:339:TRP:HE3	1:7:350:ILE:HD11	1.72	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	126.76	0.54
1:G:406:ASN:CB	1:I:342:HIS:HE1	2.22	0.54
1:I:342:HIS:HE1	1:3:406:ASN:CB	186.16	0.54
1:J:551:ILE:HD11	1:K:298:ALA:HA	1.90	0.54
1:M:117:SER:HB2	1:M:191:ASN:HD21	1.73	0.54
1:Q:406:ASN:CB	1:R:342:HIS:HE1	73.03	0.54
1:T:217:TRP:O	1:T:236:LYS:HA	2.08	0.54
1:F:406:ASN:CB	1:T:342:HIS:HE1	152.19	0.54
1:V:117:SER:HB2	1:V:191:ASN:HD21	1.73	0.54
1:T:342:HIS:HE1	1:V:406:ASN:CB	118.39	0.54
1:X:217:TRP:CE2	1:X:239:ARG:CD	2.90	0.54
1:X:37:HIS:HE1	1:Y:34:GLY:HA2	1.72	0.54
1:Z:217:TRP:O	1:Z:236:LYS:HA	2.08	0.54
1:W:406:ASN:CB	1:Z:342:HIS:HE1	90.43	0.54
1:Z:34:GLY:HA2	1:1:37:HIS:HE1	1.72	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:T:318:SER:CB	1:4:393:GLN:NE2	2.71	0.53
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:B:342:HIS:HE1	1:6:406:ASN:CB	220.00	0.53
1:Y:393:GLN:NE2	1:7:318:SER:CB	173.10	0.53
1:7:551:ILE:HD11	1:0:298:ALA:HA	1.90	0.53
1:D:342:HIS:HE1	1:P:406:ASN:CB	2.21	0.53
1:G:450:PRO:HB2	1:G:451:TRP:CD2	2.44	0.53
1:H:551:ILE:HD11	1:4:298:ALA:HA	232.75	0.53
1:I:217:TRP:O	1:I:236:LYS:HA	2.08	0.53
1:I:217:TRP:CE2	1:I:239:ARG:CD	2.90	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:L:450:PRO:HB2	1:L:451:TRP:CD2	2.44	0.53
1:N:298:ALA:HA	1:Y:551:ILE:HD11	227.58	0.53
1:N:318:SER:CB	1:P:393:GLN:NE2	2.71	0.53
1:Q:342:HIS:HE1	1:S:406:ASN:CB	92.78	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:Q:37:HIS:CE1	1:S:34:GLY:HA2	2.42	0.53
1:T:217:TRP:CE2	1:T:239:ARG:CD	2.90	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:356:PHE:HB2	1:Z:405:THR:HG22	1.91	0.53
1:1:406:ASN:CB	1:0:342:HIS:HE1	2.21	0.53
1:K:406:ASN:CB	1:1:342:HIS:HE1	2.21	0.53
1:2:233:GLN:OE1	1:2:236:LYS:HB3	2.09	0.53
1:2:58:VAL:HG22	1:2:518:ILE:HG12	1.88	0.53
1:X:342:HIS:HE1	1:5:406:ASN:CB	2.21	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
1:7:117:SER:HB2	1:7:191:ASN:HD21	1.73	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
1:J:551:ILE:HD11	1:M:298:ALA:HA	140.35	0.53
1:K:233:GLN:OE1	1:K:236:LYS:HB3	2.09	0.53
1:J:298:ALA:HA	1:M:551:ILE:HD11	140.35	0.53
1:M:287:THR:HG21	1:M:569:MET:HE3	2.02	0.53
1:N:342:HIS:HE1	1:P:406:ASN:CB	24.45	0.53
1:N:393:GLN:NE2	1:P:318:SER:CB	57.18	0.53
1:O:233:GLN:OE1	1:O:236:LYS:HB3	2.09	0.53
1:P:233:GLN:OE1	1:P:236:LYS:HB3	2.09	0.53
1:Q:287:THR:HG21	1:Q:569:MET:HE3	1.90	0.53
1:R:450:PRO:HB2	1:R:451:TRP:CD2	2.44	0.53
1:U:406:ASN:CB	1:V:342:HIS:HE1	72.99	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:Y:233:GLN:OE1	1:Y:236:LYS:HB3	2.09	0.53
1:0:356:PHE:HB2	1:0:405:THR:HG22	1.91	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:H:298:ALA:HA	1:4:551:ILE:HD11	180.80	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	139.23	0.53
1:C:551:ILE:HD11	1:F:298:ALA:HA	69.98	0.53
1:F:468:SER:OG	1:F:471:ALA:O	2.21	0.53
1:H:287:THR:HG21	1:H:569:MET:HE3	1.92	0.53
1:B:298:ALA:HA	1:I:551:ILE:HD11	1.90	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:551:ILE:HD11	1:Z:298:ALA:HA	126.77	0.53
1:I:318:SER:CB	1:J:393:GLN:NE2	99.64	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: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:S:298:ALA:HA	1:T:551:ILE:HD11	1.90	0.53
1:W:117:SER:HB2	1:W: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:D:450:PRO:HB2	1:D:451:TRP:CD2	2.44	0.53
1:E:233:GLN:OE1	1:E:236:LYS:HB3	2.09	0.53
1:E:356:PHE:HB2	1:E:405:THR:HG22	1.91	0.53
1:G:233:GLN:OE1	1:G:236:LYS:HB3	2.09	0.53
1:H:450:PRO:HB2	1:H:451:TRP:CD2	2.44	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: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:N:217:TRP:CE2	1:N:239:ARG:CD	2.90	0.53
1:O:406:ASN:CB	1:P:342:HIS:HE1	59.53	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:Q:298:ALA:HA	1:R:551:ILE:HD11	1.91	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	55.93	0.53
1:Y:342:HIS:HE1	1:7:406:ASN:CB	186.15	0.53
1:1:233:GLN:OE1	1:1:236:LYS:HB3	2.09	0.53
1:C:406:ASN:CB	1:2:342:HIS:HE1	2.21	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:D:298:ALA:HA	1:Q:551:ILE:HD11	139.43	0.53
1:D:406:ASN:CB	1:E:342:HIS:HE1	92.77	0.53
1:E:468:SER:OG	1:E:471:ALA:O	2.21	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:L:233:GLN:OE1	1:L:236:LYS:HB3	2.09	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:342:HIS:HE1	1:U:406:ASN:CB	2.21	0.53
1:S:468:SER:OG	1:S:471:ALA:O	2.21	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:T:406:ASN:CB	1:4:342:HIS:HE1	2.21	0.53
1:W:217:TRP:CE2	1:W:239:ARG:CD	2.90	0.53
1:H:318:SER:CB	1:W:393:GLN:NE2	2.71	0.53
1:Y:406:ASN:CB	1:Z:342:HIS:HE1	73.00	0.53
1:Y:450:PRO:HB2	1:Y:451:TRP:CD2	2.44	0.53
1:0:217:TRP:CE2	1:0:239:ARG:CD	2.90	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
1:7:450:PRO:HB2	1:7:451:TRP:CD2	2.44	0.53
1:C:468:SER:OG	1:C:471:ALA:O	2.22	0.53
1:B:551:ILE:HD11	1:E:298:ALA:HA	120.52	0.53
1:F:233:GLN:OE1	1:F:236:LYS:HB3	2.09	0.53
1:I:406:ASN:CB	1:J:342:HIS:HE1	59.53	0.53
1:J:77:ILE:HG12	1:J:106:VAL:HB	1.91	0.53
1:K:459:PRO:HB3	1:M:569:MET:HE2	118.01	0.53
1:N:468:SER:OG	1:N:471:ALA:O	2.22	0.53
1:H:569:MET:HE2	1:O:459:PRO:HB3	179.49	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:W:356:PHE:HB2	1:W: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
1:3:117:SER:HB2	1:3:191:ASN:HD21	1.73	0.53
1:4:77:ILE:HG12	1:4:106:VAL:HB	1.91	0.53
1:7:233:GLN:OE1	1:7:236:LYS:HB3	2.09	0.53
1:A:450:PRO:HB2	1:A:451:TRP:CD2	2.44	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:C:342:HIS:HE1	1:E:406:ASN:CB	116.22	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:B:406:ASN:CB	1:J:342:HIS:HE1	2.21	0.53
1:J:406:ASN:CB	1:3:342:HIS:HE1	138.92	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	72.99	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: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:S:406:ASN:CB	1:U:342:HIS:HE1	2.21	0.53
1:V:450:PRO:HB2	1:V:451:TRP:CD2	2.44	0.53
1:U:298:ALA:HA	1:V:551:ILE:HD11	1.90	0.53
1:X:233:GLN:OE1	1:X:236:LYS:HB3	2.09	0.53
1:N:551:ILE:HD11	1:Y:298:ALA:HA	227.55	0.53
1:Z:468:SER:OG	1:Z:471:ALA:O	2.21	0.53
1:O:450:PRO:HB2	1:O:451:TRP:CD2	2.44	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:A:406:ASN:CB	1:6:342:HIS:HE1	186.86	0.53
1:7:298:ALA:HA	1:O:551:ILE:HD11	1.90	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:G:342:HIS:HE1	1:O:406:ASN:CB	178.17	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:J:145:THR:OG1	1:J:514:THR:OG1	2.27	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: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:W:77:ILE:HG12	1:W:106:VAL:HB	1.91	0.53
1:Z:233:GLN:OE1	1:Z:236:LYS:HB3	2.09	0.53
1:4:141:HIS:NE2	1:4:518:ILE:HD12	2.24	0.53
1:5:551:ILE:HD11	1:6:298:ALA:HA	1.90	0.53
1:E:287:THR:HG21	1:E:569:MET:HE3	2.02	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:342:HIS:HE1	1:4:406:ASN:CB	132.28	0.53
1:G:356:PHE:HB2	1:G:405:THR:HG22	1.91	0.53
1:G:145:THR:OG1	1:G:514:THR:OG1	2.27	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:K:406:ASN:CB	1:L:342:HIS:HE1	59.53	0.53
1:J:298:ALA:HA	1:K:551:ILE:HD11	1.90	0.53
1:K:569:MET:HE1	1:L:459:PRO:HB3	54.68	0.53
1:M:233:GLN:OE1	1:M:236:LYS:HB3	2.09	0.53
1:O:298:ALA:HA	1:U:551:ILE:HD11	194.43	0.53
1:O:335:SER:H	1:O:435:THR:CG2	2.13	0.53
1:O:450:PRO:HB2	1:O:451:TRP:CD2	2.44	0.53
1:G:459:PRO:HB3	1:O:569:MET:HE1	160.78	0.53
1:Q:233:GLN:OE1	1:Q:236:LYS:HB3	2.09	0.53
1:T:450:PRO:HB2	1:T:451:TRP:CD2	2.44	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
1:W:450:PRO:HB2	1:W:451:TRP:CD2	2.44	0.53
1:X:192:MET:SD	1:Z:327:VAL:HG13	90.53	0.53
1:5:141:HIS:NE2	1:5:518:ILE:HD12	2.24	0.53
1:Z:406:ASN:CB	1:7:342:HIS:HE1	152.18	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:450:PRO:HB2	1:E:451:TRP:CD2	2.44	0.53
1:F:356:PHE:HB2	1:F:405:THR:HG22	1.91	0.53
1:G:406:ASN:CB	1:H:342:HIS:HE1	72.99	0.53
1:H:233:GLN:OE1	1:H:236:LYS:HB3	2.09	0.53
1:H:342:HIS:HE1	1:Y:406:ASN:CB	2.21	0.53
1:G:318:SER:CB	1:H:393:GLN:HE22	56.44	0.53
1:H:406:ASN:CB	1:W:342:HIS:HE1	2.22	0.53
1:I:298:ALA:HA	1:Z:551:ILE:HD11	120.54	0.53
1:J:141:HIS:NE2	1:J:518:ILE:HD12	2.25	0.53
1:K:141:HIS:NE2	1:K:518:ILE:HD12	2.24	0.53
1:K:77:ILE:HG12	1:K:106:VAL:HB	1.91	0.53
1:B:342:HIS:HE1	1:L:406:ASN:CB	2.21	0.53
1:L:318:SER:CB	1:M:393:GLN:HE22	110.56	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:P:141:HIS:NE2	1:P:518:ILE:HD12	2.25	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:S:77:ILE:HG12	1:S:106:VAL:HB	1.91	0.53
1:T:145:THR:OG1	1:T:514:THR:OG1	2.27	0.53
1:O:551:ILE:HD11	1:U:298:ALA:HA	145.13	0.53
1:U:356:PHE:HB2	1:U:405:THR:HG22	1.91	0.53
1:Z:77:ILE:HG12	1:Z:106:VAL:HB	1.91	0.53
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:141:HIS:NE2	1:A:518:ILE:HD12	2.24	0.52
1:A:342:HIS:HE1	1:B:406:ASN:CB	59.52	0.52
1:A:356:PHE:HB2	1:A:405:THR:HG22	1.91	0.52
1:A:145:THR:OG1	1:A:514:THR:OG1	2.27	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:406:ASN:CB	1:D:342:HIS:HE1	92.77	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: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: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:145:THR:OG1	1:S:514:THR:OG1	2.27	0.52
1:S:569:MET:HE1	1:U:459:PRO:HB3	1.91	0.52
1:U:141:HIS:NE2	1:U:518:ILE:HD12	2.25	0.52
1:T:406:ASN:CB	1:U:342:HIS:HE1	59.53	0.52
1:U:468:SER:OG	1:U:471:ALA:O	2.22	0.52
1:Y:287:THR:HG21	1:Y:569:MET:HE3	1.97	0.52
1:Y:141:HIS:NE2	1:Y:518:ILE:HD12	2.25	0.52
1:Z:141:HIS:NE2	1:Z:518:ILE:HD12	2.25	0.52
1:X:342:HIS:HE1	1:Z:406:ASN:CB	118.38	0.52
1:Y:569:MET:HE2	1:Z:459:PRO:HB3	58.38	0.52
1:X:459:PRO:HB3	1:Z:569:MET:HE1	94.95	0.52
1:0:233:GLN:OE1	1:0:236:LYS:HB3	2.09	0.52
1:0:77:ILE:HG12	1:0:106:VAL:HB	1.91	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:C:145:THR:OG1	1:C:514:THR:OG1	2.27	0.52
1:D:356:PHE:HB2	1:D:405:THR:HG22	1.91	0.52
1:F:141:HIS:NE2	1:F:518:ILE:HD12	2.25	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:393:GLN:HE22	1:Y:318:SER:CB	2.22	0.52
1:H:356:PHE:HB2	1:H:405:THR:HG22	1.91	0.52
1:H:77:ILE:HG12	1:H:106:VAL:HB	1.91	0.52
1:G:327:VAL:HG13	1:I:192:MET:SD	2.50	0.52
1:J:117:SER:HB2	1:J:191:ASN:HD21	1.73	0.52
1:J:233:GLN:OE1	1:J:236:LYS:HB3	2.09	0.52
1:K:145:THR:OG1	1:K:514:THR:OG1	2.27	0.52
1:L:145:THR:OG1	1:L:514:THR:OG1	2.27	0.52
1:M:77:ILE:HG12	1:M:106:VAL:HB	1.91	0.52
1:M:141:HIS:NE2	1:M:518:ILE:HD12	2.25	0.52
1:L:406:ASN:CB	1:M:342:HIS:HE1	83.06	0.52
1:M:468:SER:OG	1:M:471:ALA:O	2.22	0.52
1:R:145:THR:OG1	1:R:514:THR:OG1	2.27	0.52
1:T:569:MET:HE1	1:4:459:PRO:HB3	1.91	0.52
1:T:192:MET:SD	1:V:327:VAL:HG13	90.53	0.52
1:W:342:HIS:HE1	1:X:406:ASN:CB	72.99	0.52
1:Y:145:THR:OG1	1:Y:514:THR:OG1	2.27	0.52
1:X:393:GLN:HE22	1:Z:318:SER:CB	93.50	0.52
1:Z:145:THR:OG1	1:Z:514:THR:OG1	2.27	0.52
1:2:356:PHE:HB2	1:2:405:THR:HG22	1.90	0.52
1:M:342:HIS:HE1	1:2:406:ASN:CB	2.22	0.52
1:2:77:ILE:HG12	1:2:106:VAL:HB	1.91	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
1:7:145:THR:OG1	1:7:514:THR:OG1	2.27	0.52
1:A:406:ASN:CB	1:G:342:HIS:HE1	2.22	0.52
1:A:547:LEU:HD21	1:F:530:ASN:ND2	2.25	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:G:407:TRP:CE3	1:G:410:LYS:HE2	2.45	0.52
1:G:327:VAL:HG13	1:H:192:MET:SD	56.32	0.52
1:H:34:GLY:HA2	1:L:37:HIS:CE1	99.72	0.52
1:H:407:TRP:CE3	1:H:410:LYS:HE2	2.45	0.52
1:B:551:ILE:HD11	1:I:298:ALA:HA	1.90	0.52
1:K:327:VAL:HG13	1:L:192:MET:SD	77.10	0.52
1:K:407:TRP:CE3	1:K:410:LYS:HE2	2.45	0.52
1:L:327:VAL:HG13	1:M:192:MET:SD	94.27	0.52
1:M:407:TRP:CE3	1:M:410:LYS:HE2	2.45	0.52
1:Q:356:PHE:HB2	1:Q:405:THR:HG22	1.91	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:X:141:HIS:NE2	1:X:518:ILE:HD12	2.25	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	2.22	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:141:HIS:NE2	1:G:518:ILE:HD12	2.24	0.52
1:G:192:MET:SD	1:O:327:VAL:HG13	182.87	0.52
1:G:298:ALA:HA	1:H:551:ILE:HD11	1.90	0.52
1:G:37:HIS:CE1	1:M:34:GLY:HA2	153.11	0.52
1:I:141:HIS:NE2	1:I:518:ILE:HD12	2.24	0.52
1:M:356:PHE:HB2	1:M:405:THR:HG22	1.91	0.52
1:N:145:THR:OG1	1:N:514:THR:OG1	2.27	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: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:U:407:TRP:CE3	1:U:410:LYS:HE2	2.45	0.52
1:V:298:ALA:HA	1:X:551:ILE:HD11	103.14	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
1:4:117: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:V:406:ASN:CB	1:5:342:HIS:HE1	2.21	0.52
1:6:141:HIS:NE2	1:6:518:ILE:HD12	2.25	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:D:407:TRP:CE3	1:D:410:LYS:HE2	2.45	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:I:569:MET:HE1	1:J:459:PRO:HB3	54.62	0.52
1:K:342:HIS:HE1	1:O:406:ASN:CB	2.21	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:A:551:ILE:HD11	1:T:298:ALA:HA	139.23	0.52
1:W:407:TRP:CE3	1:W:410:LYS:HE2	2.45	0.52
1:W:145:THR:OG1	1:W:514:THR:OG1	2.27	0.52
1:6:356:PHE:HB2	1:6:405:THR:HG22	1.91	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	120.25	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:342:HIS:HE1	1:M:406:ASN:CB	137.20	0.52
1:N:192:MET:SD	1:P:327:VAL:HG13	39.28	0.52
1:Q:407:TRP:CE3	1:Q:410:LYS:HE2	2.45	0.52
1:R:407:TRP:CE3	1:R:410:LYS:HE2	2.45	0.52
1:U:77:ILE:HG12	1:U:106:VAL:HB	1.91	0.52
1:H:34:GLY:HA2	1:Z:37:HIS:CE1	2.45	0.52
1:O:407:TRP:CE3	1:O:410:LYS:HE2	2.45	0.52
1:2:141:HIS:NE2	1:2:518:ILE:HD12	2.25	0.52
1:C:327:VAL:HG13	1:2:192:MET:SD	2.50	0.52
1:2:407:TRP:CE3	1:2:410:LYS:HE2	2.45	0.52
1:J:327:VAL:HG13	1:3:192:MET:SD	108.58	0.52
1:F:192:MET:SD	1:4:327:VAL:HG13	150.08	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
1:7:210:TYR:HE1	1:7:482:GLN:HE21	1.58	0.52
1:B:407:TRP:CE3	1:B:410:LYS:HE2	2.45	0.52
1:C:407:TRP:CE3	1:C:410:LYS:HE2	2.45	0.52
1:H:406:ASN:CB	1:O:342:HIS:HE1	208.94	0.52
1:J:37:HIS:CE1	1:K:34:GLY:HA2	84.16	0.52
1:J:569:MET:HE1	1:L:459:PRO:HB3	1.91	0.52
1:O:34:GLY:HA2	1:4:37:HIS:CE1	2.45	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:X:34:GLY:HA2	1:Y:37:HIS:CE1	11.55	0.52
1:5:335:SER:H	1:5:435:THR:CG2	2.13	0.52
1:7:77:ILE:HG12	1:7:106:VAL:HB	1.91	0.52
1:A:233:GLN:OE1	1:A:236:LYS:HB3	2.09	0.52
1:D:327:VAL:HG13	1:E:192:MET:SD	86.39	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:J:356:PHE:HB2	1:J:405:THR:HG22	1.91	0.52
1:C:192:MET:SD	1:M:327:VAL:HG13	2.50	0.52
1:N:77:ILE:HG12	1:N:106:VAL:HB	1.91	0.52
1:D:569:MET:HE1	1:N:459:PRO:HB3	1.92	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:U:327:VAL:HG13	1:V:192:MET:SD	56.31	0.52
1:V:210:TYR:HE1	1:V:482:GLN:HE21	1.58	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:C:210:TYR:HE1	1:C:482:GLN:HE21	1.58	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:F:569:MET:HE1	1:T:459:PRO:HB3	137.75	0.52
1:G:393:GLN:HE22	1:O:318:SER:CB	212.23	0.52
1:H:145:THR:OG1	1:H:514:THR:OG1	2.27	0.52
1:J:359:ALA:HA	1:J:362:SER:HB2	1.92	0.52
1:K:318:SER:CB	1:L:393:GLN:HE22	99.73	0.52
1:O:359:ALA:HA	1:O:362:SER:HB2	1.92	0.52
1:R:359:ALA:HA	1:R:362:SER:HB2	1.92	0.52
1:R:287:THR:HG21	1:R:569:MET:HE3	1.92	0.52
1:P:551:ILE:HD11	1:S:298:ALA:HA	120.53	0.52
1:V:37:HIS:CE1	1:W:34:GLY:HA2	11.55	0.52
1:W:141:HIS:NE2	1:W:518:ILE:HD12	2.25	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:X:145:THR:OG1	1:X:514:THR:OG1	2.27	0.52
1:Y:359:ALA:HA	1:Y:362:SER:HB2	1.92	0.52
1:Y:210:TYR:HE1	1:Y: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:E:407:TRP:CE3	1:E:410:LYS:HE2	2.45	0.52
1:F:359:ALA:HA	1:F:362:SER:HB2	1.92	0.52
1:H:359:ALA:HA	1:H:362:SER:HB2	1.92	0.52
1:A:342:HIS:HE1	1:I:406:ASN:CB	2.22	0.52
1:I:459:PRO:HB3	1:3:569:MET:HE1	160.51	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: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:D:318:SER:CB	1:N:393:GLN:HE22	2.23	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	77.10	0.52
1:N:530:ASN:ND2	1:O:547:LEU:HD21	2.25	0.52
1:P:407:TRP:CE3	1:P:410:LYS:HE2	2.45	0.52
1:Q:141:HIS:NE2	1:Q:518:ILE:HD12	2.24	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Q:210:TYR:HE1	1:Q:482:GLN:HE21	1.58	0.52
1:Q:359:ALA:HA	1:Q:362:SER:HB2	1.92	0.52
1:R:387:ASP:N	1:R:387:ASP:OD1	2.43	0.52
1:Q:318:SER:CB	1:R:393:GLN:HE22	56.49	0.52
1:G:37:HIS:CE1	1:W:34:GLY:HA2	2.45	0.52
1:X:34:GLY:HA2	1:6:37:HIS:CE1	2.45	0.52
1:Y:327:VAL:HG13	1:Z:192:MET:SD	56.32	0.52
1:Z:210:TYR:HE1	1:Z:482:GLN:HE21	1.58	0.52
1:4:287:THR:CG2	1:4:569:MET:SD	2.99	0.51
1:B:359:ALA:HA	1:B:362:SER:HB2	1.92	0.51
1:D:359:ALA:HA	1:D:362:SER:HB2	1.93	0.51
1:D:387:ASP:OD1	1:D:387:ASP:N	2.43	0.51
1:D:210:TYR:HE1	1:D:482:GLN:HE21	1.58	0.51
1:D:547:LEU:HD21	1:M:530:ASN:ND2	2.25	0.51
1:E:77:ILE:HG12	1:E:106:VAL:HB	1.91	0.51
1:H:327:VAL:HG13	1:W:192:MET:SD	2.50	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	183.43	0.51
1:M:287:THR:CG2	1:M:569:MET:SD	2.99	0.51
1:M:387:ASP:N	1:M:387:ASP:OD1	2.43	0.51
1:O:387:ASP:N	1:O:387:ASP:OD1	2.43	0.51
1:O:287:THR:CG2	1:O:569:MET:SD	2.99	0.51
1:Q:387:ASP:OD1	1:Q:387:ASP:N	2.43	0.51
1:D:530:ASN:ND2	1:Q:547:LEU:HD21	125.89	0.51
1:R:192:MET:SD	1:U:327:VAL:HG13	2.50	0.51
1:S:407:TRP:CE3	1:S:410:LYS:HE2	2.45	0.51
1:W:287:THR:CG2	1:W:569:MET:SD	2.99	0.51
1:W:192:MET:SD	1:X:327:VAL:HG13	56.31	0.51
1:Y:387:ASP:N	1:Y:387:ASP:OD1	2.43	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:K:327:VAL:HG13	1:1:192:MET:SD	2.50	0.51
1:J:37:HIS:CE1	1:1:34:GLY:HA2	2.45	0.51
1:1:82:ARG:HG2	1:1:86:PHE:CG	2.46	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:Y:192:MET:SD	1:7:327:VAL:HG13	162.62	0.51
1:A:359:ALA:HA	1:A:362:SER:HB2	1.92	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:287:THR:CG2	1:A:569:MET:SD	2.99	0.51
1:B:210:TYR:HE1	1:B:482:GLN:HE21	1.58	0.51
1:B:37:HIS:CE1	1:C:34:GLY:HA2	11.55	0.51
1:B:287:THR:CG2	1:B:569:MET:SD	2.99	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:339:TRP:CE3	1:D:350:ILE:HD11	2.46	0.51
1:D:318:SER:CB	1:E:393:GLN:HE22	94.67	0.51
1:E:404:GLN:NE2	1:E:443:ASP:H	2.09	0.51
1:G:318:SER:CB	1:I:393:GLN:HE22	2.23	0.51
1:G:339:TRP:CE3	1:G:350:ILE:HD11	2.46	0.51
1:I:339:TRP:CE3	1:I:350:ILE:HD11	2.46	0.51
1:I:37:HIS:CE1	1:7:34:GLY:HA2	91.03	0.51
1:K:335:SER:H	1:K:435:THR:CG2	2.13	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:L:77:ILE:HG12	1:L:106:VAL:HB	1.91	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: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:S:339:TRP:CE3	1:S:350:ILE:HD11	2.46	0.51
1:T:339:TRP:CE3	1:T:350:ILE:HD11	2.46	0.51
1:T:37:HIS:CE1	1:U:34:GLY:HA2	2.46	0.51
1:A:547:LEU:HD21	1:T:530:ASN:ND2	127.87	0.51
1:T:327:VAL:HG13	1:U:192:MET:SD	77.10	0.51
1:U:335:SER:H	1:U:435:THR:CG2	2.13	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:H:569:MET:HE2	1:W:459:PRO:HB3	1.91	0.51
1:W:551:ILE:HD11	1:1:298:ALA:HA	177.67	0.51
1:W:551:ILE:HD11	1:X:298:ALA:HA	1.91	0.51
1:X:77:ILE:HG12	1:X:106:VAL:HB	1.91	0.51
1:1:387:ASP:N	1:1:387:ASP:OD1	2.43	0.51
1:1:404:GLN:NE2	1:1:443:ASP:H	2.09	0.51
1:C:318:SER:CB	1:2:393:GLN:HE22	2.23	0.51
1:3:387:ASP:N	1:3:387:ASP:OD1	2.43	0.51
1:4:356:PHE:HB2	1:4:405:THR:HG22	1.91	0.51
1:5:287:THR:CG2	1:5:569:MET:SD	2.99	0.51
1:6:359:ALA:HA	1:6:362:SER:HB2	1.92	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:7:141:HIS:NE2	1:7:518:ILE:HD12	2.25	0.51
1:7:82:ARG:HG2	1:7:86:PHE:CG	2.46	0.51
1:A:210:TYR:HE1	1:A:482:GLN:HE21	1.58	0.51
1:B:547:LEU:HD21	1:E:530:ASN:ND2	104.79	0.51
1:B:547:LEU:HD21	1:I:530:ASN:ND2	2.26	0.51
1:C:547:LEU:HD21	1:F:530:ASN:ND2	86.46	0.51
1:E:287:THR:CG2	1:E:569:MET:SD	2.99	0.51
1:G:318:SER:HB2	1:H:393:GLN:NE2	56.59	0.51
1:G:547:LEU:HD21	1:H:530:ASN:ND2	2.26	0.51
1:B:530:ASN:ND2	1:I:547:LEU:HD21	2.26	0.51
1:B:327:VAL:HG13	1:J:192:MET:SD	2.50	0.51
1:J:327:VAL:HG13	1:L:192:MET:SD	2.50	0.51
1:I:37:HIS:CE1	1:J:34:GLY:HA2	2.46	0.51
1:K:37:HIS:CE1	1:S:34:GLY:HA2	153.74	0.51
1:K:404:GLN:NE2	1:K:443:ASP:H	2.09	0.51
1:L:569:MET:HE2	1:M:459:PRO:HB3	77.34	0.51
1:M:339:TRP:CE3	1:M:350:ILE:HD11	2.46	0.51
1:L:318:SER:HB2	1:M:393:GLN:NE2	110.89	0.51
1:N:327:VAL:HG13	1:P:192:MET:SD	2.50	0.51
1:N:82:ARG:HG2	1:N:86:PHE:CG	2.46	0.51
1:O:530:ASN:ND2	1:U:547:LEU:HD21	165.34	0.51
1:P:339:TRP:CE3	1:P:350:ILE:HD11	2.46	0.51
1:P:287:THR:CG2	1:P:569:MET:SD	2.99	0.51
1:Q:82:ARG:HG2	1:Q:86:PHE:CG	2.46	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:210:TYR:HE1	1:S:482:GLN:HE21	1.58	0.51
1:S:82:ARG:HG2	1:S:86:PHE:CG	2.46	0.51
1:T:37:HIS:CE1	1:6:34:GLY:HA2	92.67	0.51
1:A:530:ASN:ND2	1:T:547:LEU:HD21	127.87	0.51
1:U:339:TRP:CE3	1:U:350:ILE:HD11	2.46	0.51
1:T:318:SER:CB	1:U:393:GLN:HE22	99.73	0.51
1:U:82:ARG:HG2	1:U:86:PHE:CG	2.46	0.51
1:T:393:GLN:HE22	1:V:318:SER:CB	93.50	0.51
1:V:547:LEU:HD21	1:X:530:ASN:ND2	53.17	0.51
1:W:359:ALA:HA	1:W:362:SER:HB2	1.92	0.51
1:X:192:MET:SD	1:5:327:VAL:HG13	2.50	0.51
1:X:387:ASP:N	1:X:387:ASP:OD1	2.43	0.51
1:X:404:GLN:NE2	1:X:443:ASP:H	2.09	0.51
1:X:82:ARG:HG2	1:X:86:PHE:CG	2.46	0.51
1:Y:287:THR:CG2	1:Y:569:MET:SD	2.99	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Z:404:GLN:NE2	1:Z:443:ASP:H	2.09	0.51
1:I:530:ASN:ND2	1:Z:547:LEU:HD21	104.80	0.51
1:Z:287:THR:CG2	1:Z:569:MET:SD	2.99	0.51
1:Z:82:ARG:HG2	1:Z:86:PHE:CG	2.46	0.51
1:1:327:VAL:HG13	1:0:192:MET:SD	2.50	0.51
1:1:287:THR:CG2	1:1:569:MET:SD	2.99	0.51
1:M:192:MET:SD	1:2:327:VAL:HG13	2.50	0.51
1:I:393:GLN:HE22	1:3:318:SER:CB	173.87	0.51
1:4:210:TYR:HE1	1:4:482:GLN:HE21	1.58	0.51
1:4:82:ARG:HG2	1:4:86:PHE:CG	2.46	0.51
1:V:327:VAL:HG13	1:5:192:MET:SD	2.50	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:A:327:VAL:HG13	1:6:192:MET:SD	152.28	0.51
1:6:404:GLN:NE2	1:6:443:ASP:H	2.09	0.51
1:7:339:TRP:CE3	1:7:350:ILE:HD11	2.46	0.51
1:Z:318:SER:CB	1:7:393:GLN:HE22	155.30	0.51
1:A:331:HIS:CE1	1:6:342:HIS:HD2	177.39	0.51
1:A:339:TRP:CE3	1:A:350:ILE:HD11	2.46	0.51
1:A:404:GLN:NE2	1:A:443:ASP:H	2.09	0.51
1:B:339:TRP:CE3	1:B:350:ILE:HD11	2.46	0.51
1:B:34:GLY:HA2	1:C:37:HIS:CE1	2.45	0.51
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:145:THR:OG1	1:D:514:THR:OG1	2.27	0.51
1:C:327:VAL:HG13	1:D:192:MET:SD	86.39	0.51
1:D:192:MET:SD	1:P:327:VAL:HG13	2.50	0.51
1:E:342:HIS:CE1	1:F:406:ASN:CB	2.94	0.51
1:E:82:ARG:HG2	1:E:86:PHE:CG	2.46	0.51
1:F:193:TYR:HA	1:Q:311:GLY:HA3	1.91	0.51
1:F:318:SER:CB	1:T:393:GLN:HE22	155.32	0.51
1:F:387:ASP:N	1:F:387:ASP:OD1	2.43	0.51
1:G:404:GLN:NE2	1:G:443:ASP:H	2.09	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:H:287:THR:CG2	1:H:569:MET:SD	2.99	0.51
1:B:331:HIS:CE1	1:J:342:HIS:HD2	2.29	0.51
1:J:404:GLN:NE2	1:J:443:ASP:H	2.09	0.51
1:J:82:ARG:HG2	1:J:86:PHE:CG	2.46	0.51
1:K:82:ARG:HG2	1:K:86:PHE:CG	2.46	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:M:145:THR:OG1	1:M:514:THR:OG1	2.27	0.51
1:N:34:GLY:HA2	1:S:37:HIS:CE1	92.67	0.51
1:P:210:TYR:HE1	1:P:482:GLN:HE21	1.58	0.51
1:D:342:HIS:HD2	1:P:331:HIS:CE1	2.29	0.51
1:O:37:HIS:CE1	1:P:34:GLY:HA2	2.45	0.51
1:Q:145:THR:OG1	1:Q:514:THR:OG1	2.27	0.51
1:R:287:THR:CG2	1:R:569:MET:SD	2.99	0.51
1:R:339:TRP:CE3	1:R:350:ILE:HD11	2.46	0.51
1:R:82:ARG:HG2	1:R:86:PHE:CG	2.46	0.51
1:S:547:LEU:HD21	1:T:530:ASN:ND2	2.26	0.51
1:S:287:THR:CG2	1:S:569:MET:SD	2.99	0.51
1:U:387:ASP:N	1:U:387:ASP:OD1	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:X:468:SER:OG	1:X:471:ALA:O	2.22	0.51
1:X:287:THR:CG2	1:X:569:MET:SD	2.99	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: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
1:0:141: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
1:1:210: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
1:3:359:ALA:HA	1:3:362:SER:HB2	1.92	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:Y:393:GLN:HE22	1:7:318:SER:CB	173.87	0.51
1:7:387:ASP:OD1	1:7:387:ASP:N	2.43	0.51
1:A:318:SER:CB	1:G:393:GLN:HE22	2.23	0.51
1:B:34:GLY:HA2	1:5:37:HIS:CE1	156.43	0.51
1:C:404:GLN:NE2	1:C:443:ASP:H	2.09	0.51
1:D:34:GLY:HA2	1:E:37:HIS:CE1	2.45	0.51
1:C:393:GLN:HE22	1:E:318:SER:CB	141.67	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:E:145:THR:OG1	1:E:514:THR:OG1	2.27	0.51
1:F:319:ASP:HB3	1:F:320:PRO:HD3	1.93	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:327:VAL:HG13	1:T:192:MET:SD	140.31	0.51
1:F:82:ARG:HG2	1:F:86:PHE:CG	2.46	0.51
1:H:82:ARG:HG2	1:H:86:PHE:CG	2.46	0.51
1:I:210:TYR:HE1	1:I:482:GLN:HE21	1.58	0.51
1:I:342:HIS:HD2	1:3:331:HIS:CE1	180.07	0.51
1:I:287:THR:CG2	1:I:569:MET:SD	2.99	0.51
1:I:327:VAL:HG13	1:J:192:MET:SD	77.10	0.51
1:J:407:TRP:CE3	1:J:410:LYS:HE2	2.45	0.51
1:J:210:TYR:HE1	1:J:482:GLN:HE21	1.58	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:M:319:ASP:HB3	1:M:320:PRO:HD3	1.93	0.51
1:M:82:ARG:HG2	1:M:86:PHE:CG	2.46	0.51
1:N:318:SER:CB	1:P:393:GLN:HE22	2.24	0.51
1:N:319:ASP:HB3	1:N:320:PRO:HD3	1.93	0.51
1:N:359:ALA:HA	1:N:362:SER:HB2	1.92	0.51
1:N:37:HIS:CE1	1:Z:34:GLY:HA2	157.05	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:O:82:ARG:HG2	1:O:86:PHE:CG	2.46	0.51
1:P:359:ALA:HA	1:P:362:SER:HB2	1.93	0.51
1:O:318:SER:CB	1:P:393:GLN:HE22	99.73	0.51
1:P:82:ARG:HG2	1:P:86:PHE:CG	2.46	0.51
1:Q:192:MET:SD	1:S:327:VAL:HG13	86.40	0.51
1:K:551:ILE:HD11	1:R:298:ALA:HA	209.84	0.51
1:R:393:GLN:HE22	1:U:318:SER:CB	2.24	0.51
1:Q:342:HIS:HD2	1:S:331:HIS:CE1	91.63	0.51
1:S:359:ALA:HA	1:S:362:SER:HB2	1.92	0.51
1:R:318:SER:CB	1:S:393:GLN:HE22	2.23	0.51
1:T:319:ASP:HB3	1:T:320:PRO:HD3	1.93	0.51
1:U:404:GLN:NE2	1:U:443:ASP:H	2.09	0.51
1:V:387:ASP:N	1:V:387:ASP:OD1	2.43	0.51
1:V:404:GLN:NE2	1:V:443:ASP:H	2.09	0.51
1:X:319:ASP:HB3	1:X:320:PRO:HD3	1.93	0.51
1:0:210:TYR:HE1	1:0:482:GLN:HE21	1.58	0.51
1:B:192:MET:SD	1:6:327:VAL:HG13	208.55	0.51
1:A:318:SER:CB	1:6:393:GLN:HE22	158.22	0.51
1:6:82:ARG:HG2	1:6:86:PHE:CG	2.46	0.51
1:B:387:ASP:N	1:B:387:ASP:OD1	2.43	0.51
1:B:407:TRP:CZ3	1:B:410:LYS:HE2	2.46	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:C:331:HIS:CE1	1:D:342:HIS:HD2	91.62	0.51
1:D:37:HIS:CE1	1:R:34:GLY:HA2	100.69	0.51
1:D:407:TRP:CZ3	1:D:410:LYS:HE2	2.46	0.51
1:D:82:ARG:HG2	1:D:86:PHE:CG	2.46	0.51
1:E:210:TYR:HE1	1:E:482:GLN:HE21	1.58	0.51
1:F:331:HIS:CE1	1:T:342:HIS:HD2	148.09	0.51
1:I:192:MET:SD	1:3:327:VAL:HG13	162.62	0.51
1:I:319:ASP:HB3	1:I:320:PRO:HD3	1.93	0.51
1:I:387:ASP:N	1:I:387:ASP:OD1	2.43	0.51
1:I:407:TRP:CZ3	1:I:410:LYS:HE2	2.46	0.51
1:I:82:ARG:HG2	1:I:86:PHE:CG	2.46	0.51
1:B:318:SER:CB	1:J:393:GLN:HE22	2.24	0.51
1:I:318:SER:CB	1:J:393:GLN:HE22	99.73	0.51
1:K:192:MET:SD	1:M:327:VAL:HG13	107.05	0.51
1:K:339:TRP:CE3	1:K:350:ILE:HD11	2.46	0.51
1:K:210:TYR:HE1	1:K:482:GLN:HE21	1.58	0.51
1:L:387:ASP:N	1:L:387:ASP:OD1	2.43	0.51
1:L:404:GLN:NE2	1:L:443:ASP:H	2.09	0.51
1:N:318:SER:CB	1:O:393:GLN:HE22	56.44	0.51
1:N:327:VAL:HG13	1:O:192:MET:SD	56.31	0.51
1:O:210:TYR:HE1	1:O:482:GLN:HE21	1.58	0.51
1:O:319:ASP:HB3	1:O:320:PRO:HD3	1.93	0.51
1:P:387:ASP:OD1	1:P:387:ASP:N	2.43	0.51
1:P:145:THR:OG1	1:P:514:THR:OG1	2.27	0.51
1:P:37:HIS:CE1	1:Q:34:GLY:HA2	2.52	0.51
1:Q:327:VAL:HG13	1:R:192:MET:SD	56.35	0.51
1:R:569:MET:HE2	1:S:459:PRO:HB3	1.92	0.51
1:T:210:TYR:HE1	1:T:482:GLN:HE21	1.58	0.51
1:C:37:HIS:CE1	1:T:34:GLY:HA2	154.02	0.51
1:T:387:ASP:N	1:T:387:ASP:OD1	2.43	0.51
1:T:407:TRP:CZ3	1:T:410:LYS:HE2	2.46	0.51
1:T:287:THR:CG2	1:T:569:MET:SD	2.98	0.51
1:U:331:HIS:CE1	1:V:342:HIS:HD2	69.74	0.51
1:X:210:TYR:HE1	1:X:482:GLN:HE21	1.58	0.51
1:Y:82:ARG:HG2	1:Y:86:PHE:CG	2.46	0.51
1:Z:359:ALA:HA	1:Z:362:SER:HB2	1.92	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:T:318:SER:CB	1:4:393:GLN:HE22	2.24	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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	11.52	0.51
1:A:387:ASP:N	1:A:387:ASP:OD1	2.43	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:404:GLN:NE2	1:B:443:ASP:H	2.09	0.51
1:C:359:ALA:HA	1:C:362:SER:HB2	1.92	0.51
1:C:407:TRP:CZ3	1:C:410:LYS:HE2	2.46	0.51
1:C:287:THR:CG2	1:C:569:MET:SD	2.99	0.51
1:C:82:ARG:HG2	1:C:86:PHE:CG	2.46	0.51
1:E:387:ASP:OD1	1:E:387:ASP:N	2.43	0.51
1:F:404:GLN:NE2	1:F:443:ASP:H	2.09	0.51
1:F:407:TRP:CZ3	1:F:410:LYS:HE2	2.46	0.51
1:F:287:THR:CG2	1:F:569:MET:SD	2.98	0.51
1:G:319:ASP:HB3	1:G:320:PRO:HD3	1.93	0.51
1:G:287:THR:CG2	1:G:569:MET:SD	2.99	0.51
1:H:327:VAL:HG13	1:O:192:MET:SD	184.43	0.51
1:A:393:GLN:HE22	1:I:318:SER:CB	2.24	0.51
1:K:37:HIS:CE1	1:L:34:GLY:HA2	2.46	0.51
1:M:342:HIS:HD2	1:2:331:HIS:CE1	2.29	0.51
1:D:530:ASN:ND2	1:M:547:LEU:HD21	2.26	0.51
1:M:37:HIS:CE1	1:N:34:GLY:HA2	2.45	0.51
1:N:407:TRP:CZ3	1:N:410:LYS:HE2	2.46	0.51
1:P:319:ASP:HB3	1:P:320:PRO:HD3	1.93	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:Q:287:THR:CG2	1:Q:569:MET:SD	2.98	0.51
1:R:404:GLN:NE2	1:R:443:ASP:H	2.09	0.51
1:R:407:TRP:CZ3	1:R:410:LYS:HE2	2.46	0.51
1:R:459:PRO:HB3	1:U:569:MET:HE2	1.92	0.51
1:P:530:ASN:ND2	1:S:547:LEU:HD21	110.80	0.51
1:T:327:VAL:HG13	1:4:192:MET:SD	2.50	0.51
1:T:82:ARG:HG2	1:T:86:PHE:CG	2.46	0.51
1:A:37:HIS:CE1	1:U:34:GLY:HA2	144.97	0.51
1:U:407:TRP:CZ3	1:U:410:LYS:HE2	2.46	0.51
1:V:319:ASP:HB3	1:V:320:PRO:HD3	1.93	0.51
1:V:82:ARG:HG2	1:V:86:PHE:CG	2.46	0.51
1:W:406:ASN:CB	1:Z:342:HIS:CE1	89.59	0.51
1:W:406:ASN:CB	1:Y:342:HIS:CE1	2.94	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Y:407:TRP:CZ3	1:Y:410:LYS:HE2	2.46	0.51
1:Z:319:ASP:HB3	1:Z:320:PRO:HD3	1.93	0.51
1:Y:318:SER:CB	1:Z:393:GLN:HE22	56.46	0.51
1:Z:407:TRP:CZ3	1:Z:410:LYS:HE2	2.46	0.51
1:O:404:GLN:NE2	1:O:443:ASP:H	2.09	0.51
1:O:82:ARG:HG2	1:O:86:PHE:CG	2.46	0.51
1:2:530:ASN:ND2	1:3:547:LEU:HD21	2.26	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:404:GLN:NE2	1:D:443:ASP:H	2.09	0.51
1:F:339:TRP:CE3	1:F:350:ILE:HD11	2.46	0.51
1:G:359:ALA:HA	1:G:362:SER:HB2	1.92	0.51
1:I:34:GLY:HA2	1:2:37:HIS:CE1	100.70	0.51
1:I:404:GLN:NE2	1:I:443:ASP:H	2.09	0.51
1:L:319:ASP:HB3	1:L:320:PRO:HD3	1.93	0.51
1:L:287:THR:CG2	1:L:569:MET:SD	2.99	0.51
1:M:210:TYR:HE1	1:M:482:GLN:HE21	1.58	0.51
1:M:37:HIS:CE1	1:3:34:GLY:HA2	11.55	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:E:530:ASN:ND2	1:P:547:LEU:HD21	2.26	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:V:339:TRP:CE3	1:V:350:ILE:HD11	2.46	0.51
1:W:200:ILE:HD11	1:W:203:ARG:CG	2.38	0.51
1:W:210:TYR:HE1	1:W:482:GLN:HE21	1.58	0.51
1:W:82:ARG:HG2	1:W:86:PHE:CG	2.46	0.51
1:X:244:GLN:NE2	1:Z:281:TRP:HE1	91.05	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:W:547:LEU:HD21	1:1:530:ASN:ND2	146.35	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
1:3:407:TRP:CZ3	1:3:410:LYS:HE2	2.46	0.51
1:3:280:HIS:HD2	1:3:443:ASP:OD2	1.94	0.51
1:5:407:TRP:CZ3	1:5:410:LYS:HE2	2.46	0.51
1:6:339:TRP:CE3	1:6:350:ILE:HD11	2.46	0.51
1:6:280:HIS:HD2	1:6:443:ASP:OD2	1.94	0.51
1:7:407:TRP:CZ3	1:7:410:LYS:HE2	2.46	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:7:287:THR:CG2	1:7:569:MET:SD	2.99	0.51
1:B:192:MET:SD	1:L:327:VAL:HG13	2.50	0.51
1:B:200:ILE:HD11	1:B:203:ARG:CG	2.38	0.51
1:C:318:SER:CB	1:D:393:GLN:HE22	94.67	0.51
1:C:319:ASP:HB3	1:C:320:PRO:HD3	1.93	0.51
1:D:547:LEU:HD21	1:Q:530:ASN:ND2	125.86	0.51
1:E:319:ASP:HB3	1:E:320:PRO:HD3	1.93	0.51
1:F:34:GLY:HA2	1:H:37:HIS:CE1	89.44	0.51
1:C:530:ASN:ND2	1:F:547:LEU:HD21	130.45	0.51
1:G:393:GLN:NE2	1:O:318:SER:HB2	211.54	0.51
1:H:210:TYR:HE1	1:H:482:GLN:HE21	1.58	0.51
1:I:359:ALA:HA	1:I:362:SER:HB2	1.92	0.51
1:J:280:HIS:HD2	1:J:443:ASP:OD2	1.94	0.51
1:K:244:GLN:NE2	1:M:281:TRP:HE1	129.66	0.51
1:K:407:TRP:CZ3	1:K:410:LYS:HE2	2.46	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
1:N:387:ASP:N	1:N:387:ASP:OD1	2.43	0.51
1:N:393:GLN:HE22	1:P:318:SER:CB	57.03	0.51
1:H:281:TRP:HE1	1:O:244:GLN:NE2	178.07	0.51
1:O:407:TRP:CZ3	1:O:410:LYS:HE2	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:V:359:ALA:HA	1:V:362:SER:HB2	1.92	0.51
1:W:327:VAL:HG13	1:Y:192:MET:SD	2.50	0.51
1:X:407:TRP:CZ3	1:X:410:LYS:HE2	2.46	0.51
1:X:280:HIS:HD2	1:X:443:ASP:OD2	1.94	0.51
1:H:244:GLN:NE2	1:Y:281:TRP:HE1	2.09	0.51
1:Y:468:SER:OG	1:Y:471:ALA:O	2.21	0.51
1:W:327:VAL:HG13	1:Z:192:MET:SD	58.42	0.51
1:K:244:GLN:NE2	1:0:281:TRP:HE1	2.09	0.51
1:1:407:TRP:CZ3	1:1:410:LYS:HE2	2.46	0.51
1:2:319:ASP:HB3	1:2:320:PRO:HD3	1.93	0.51
1:2:82:ARG:HG2	1:2:86:PHE:CG	2.46	0.51
1:B:393:GLN:HE22	1:6:318:SER:CB	232.53	0.51
1:5:530:ASN:ND2	1:6:547:LEU:HD21	2.26	0.51
1:A:192:MET:SD	1:B:327:VAL:HG13	77.10	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:244:GLN:NE2	1:O:281:TRP:HE1	149.31	0.51
1:G:280:HIS:HD2	1:G:443:ASP:OD2	1.94	0.51
1:G:82:ARG:HG2	1:G:86:PHE:CG	2.46	0.51
1:G:281:TRP:HE1	1:H:244:GLN:NE2	56.75	0.51
1:H:530:ASN:ND2	1:4:547:LEU:HD21	176.93	0.51
1:J:339:TRP:CE3	1:J:350:ILE:HD11	2.46	0.51
1:L:281:TRP:HE1	1:M:244:GLN:NE2	77.15	0.51
1:K:318:SER:HB2	1:L:393:GLN:NE2	100.00	0.51
1:J:530:ASN:ND2	1:M:547:LEU:HD21	127.91	0.51
1:N:404:GLN:NE2	1:N:443:ASP:H	2.09	0.51
1:O:406:ASN:CB	1:P:342:HIS:CE1	59.91	0.51
1:D:244:GLN:NE2	1:P:281:TRP:HE1	2.09	0.51
1:P:547:LEU:HD21	1:S:530:ASN:ND2	104.79	0.51
1:Q:244:GLN:NE2	1:S:281:TRP:HE1	95.77	0.51
1:R:117:SER:HB2	1:R:191:ASN:ND2	2.26	0.51
1:R:331:HIS:CE1	1:S:342:HIS:HD2	2.29	0.51
1:T:404:GLN:NE2	1:T:443:ASP:H	2.09	0.51
1:O:547:LEU:HD21	1:U:530:ASN:ND2	139.09	0.51
1:U:318:SER:CB	1:V:393:GLN:HE22	56.44	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:547:LEU:HD21	1:X:530:ASN:ND2	2.25	0.51
1:V:393:GLN:HE22	1:X:318:SER:CB	2.24	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	56.75	0.51
1:W:318:SER:CB	1:Z:393:GLN:HE22	54.14	0.51
1:I:569:MET:HE1	1:O:459:PRO:HB3	1.92	0.50
1:M:34:GLY:HA2	1:3:37:HIS:CE1	2.46	0.50
1:H:547:LEU:HD21	1:4:530:ASN:ND2	198.73	0.50
1:V:281:TRP:HE1	1:5:244:GLN:NE2	2.09	0.50
1:A:319:ASP:HB3	1:A:320:PRO:HD3	1.93	0.50
1:A:82:ARG:HG2	1:A:86:PHE:CG	2.46	0.50
1:B:569:MET:HE1	1:J:459:PRO:HB3	1.93	0.50
1:E:342:HIS:HD2	1:F:331:HIS:CE1	2.28	0.50
1:G:530:ASN:ND2	1:L:547:LEU:HD21	127.91	0.50
1:G:547:LEU:HD21	1:L:530:ASN:ND2	127.91	0.50
1:H:404:GLN:NE2	1:H:443:ASP:H	2.09	0.50
1:I:117:SER:HB2	1:I:191:ASN:ND2	2.27	0.50
1:I:200:ILE:HD11	1:I:203:ARG:CG	2.38	0.50
1:G:406:ASN:CB	1:I:342:HIS:CE1	2.95	0.50
1:J:547:LEU:HD21	1:K:530:ASN:ND2	2.26	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:281:TRP:HE1	1:L:244:GLN:NE2	33.68	0.50
1:L:407:TRP:CZ3	1:L:410:LYS:HE2	2.46	0.50
1:L:287:THR:HG21	1:L:569:MET:HE3	1.98	0.50
1:L:82:ARG:HG2	1:L:86:PHE:CG	2.46	0.50
1:N:287:THR:HG21	1:N:569:MET:HE3	1.93	0.50
1:N:331:HIS:CE1	1:P:342:HIS:HD2	2.29	0.50
1:O:331:HIS:CE1	1:P:342:HIS:HD2	62.69	0.50
1:O:34:GLY:HA2	1:Y:37:HIS:CE1	157.05	0.50
1:P:477:ASP:OD1	1:P:478:GLY:N	2.43	0.50
1:E:547:LEU:HD21	1:P:530:ASN:ND2	2.26	0.50
1:R:281:TRP:HE1	1:S:244:GLN:NE2	2.10	0.50
1:S:387:ASP:N	1:S:387:ASP:OD1	2.43	0.50
1:T:200:ILE:HD11	1:T:203:ARG:CG	2.38	0.50
1:V:117:SER:HB2	1:V:191:ASN:ND2	2.27	0.50
1:V:406:ASN:CB	1:5:342:HIS:CE1	2.95	0.50
1:H:281:TRP:HE1	1:W:244:GLN:NE2	2.09	0.50
1:W:318:SER:CB	1:Y:393:GLN:HE22	2.23	0.50
1:V:34:GLY:HA2	1:W:37:HIS:CE1	2.45	0.50
1:Z:339:TRP:CE3	1:Z:350:ILE:HD11	2.46	0.50
1:W:37:HIS:CE1	1:0:34:GLY:HA2	149.85	0.50
1:1:318:SER:CB	1:0:393:GLN:HE22	2.24	0.50
1:K:342:HIS:CE1	1:0:406:ASN:CB	2.95	0.50
1:K:281:TRP:HE1	1:1:244:GLN:NE2	2.10	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:X:244:GLN:NE2	1:5:281:TRP:HE1	2.10	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:117:SER:HB2	1:A:191:ASN:ND2	2.26	0.50
1:A:37:HIS:CE1	1:E:34:GLY:HA2	2.44	0.50
1:A:57:ILE:HB	1:A:519:LEU:HB2	1.94	0.50
1:B:117:SER:HB2	1:B:191:ASN:ND2	2.27	0.50
1:B:57:ILE:HB	1:B:519:LEU:HB2	1.94	0.50
1:C:356:PHE:CG	1:C:405:THR:HA	2.47	0.50
1:D:468:SER:OG	1:D:471:ALA:O	2.22	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: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:E:244:GLN:NE2	1:F:281:TRP:HE1	2.09	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:34:GLY:HA2	1:F:37:HIS:CE1	90.93	0.50
1:G:117:SER:HB2	1:G:191:ASN:ND2	2.27	0.50
1:G:356:PHE:CG	1:G:405:THR:HA	2.47	0.50
1:G:57:ILE:HB	1:G:519:LEU:HB2	1.94	0.50
1:A:192:MET:SD	1:I:327:VAL:HG13	2.51	0.50
1:I:287:THR:CG2	1:I:569:MET:CG	2.90	0.50
1:J:356:PHE:CG	1:J:405:THR:HA	2.47	0.50
1:J:547:LEU:HD21	1:M:530:ASN:ND2	127.91	0.50
1:K:280:HIS:HD2	1:K:443:ASP:OD2	1.95	0.50
1:J:318:SER:CB	1:L:393:GLN:HE22	2.24	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:407:TRP:CZ3	1:P:410:LYS:HE2	2.46	0.50
1:R:406:ASN:CB	1:S:342:HIS:CE1	2.94	0.50
1:S:407:TRP:CZ3	1:S: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:356:PHE:CG	1:U:405:THR:HA	2.47	0.50
1:T:342:HIS:CE1	1:V:406:ASN:CB	117.55	0.50
1:V:459:PRO:HB3	1:X:569:MET:HE1	1.92	0.50
1:W:404:GLN:NE2	1:W:443:ASP:H	2.09	0.50
1:W:57:ILE:HB	1:W:519:LEU:HB2	1.94	0.50
1:X:356:PHE:CG	1:X:405:THR:HA	2.47	0.50
1:W:530:ASN:ND2	1:X:547:LEU:HD21	2.27	0.50
1:Z:477:ASP:OD1	1:Z:478:GLY:N	2.43	0.50
1:7:547:LEU:HD21	1:0:530:ASN:ND2	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:T:406:ASN:CB	1:4:342:HIS:CE1	2.95	0.50
1:B:342:HIS:HD2	1:6:331:HIS:CE1	216.44	0.50
1:6:356:PHE:CG	1:6:405:THR:HA	2.47	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:B:530:ASN:ND2	1:E:547:LEU:HD21	110.79	0.50
1:C:57:ILE:HB	1:C:519:LEU:HB2	1.94	0.50
1:E:327:VAL:HG13	1:Q:192:MET:SD	2.52	0.50
1:E:34:GLY:HA2	1:Q:37:HIS:CE1	90.66	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:356:PHE:CG	1:E:405:THR:HA	2.47	0.50
1:E:461:THR:HB	1:F:442:VAL:O	2.11	0.50
1:G:342:HIS:HD2	1:O:331:HIS:CE1	178.35	0.50
1:H:117:SER:HB2	1:H:191:ASN:ND2	2.26	0.50
1:J:287:THR:CG2	1:J:569:MET:CG	2.90	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: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
1:N:244:GLN:NE2	1:P:281:TRP:HE1	46.66	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:T:287:THR:CG2	1:T:569:MET:CG	2.90	0.50
1:R:342:HIS:CE1	1:U:406:ASN:CB	2.95	0.50
1:U:547:LEU:HD21	1:V:530:ASN:ND2	2.26	0.50
1:V:57:ILE:HB	1:V:519:LEU:HB2	1.94	0.50
1:X:117:SER:HB2	1:X:191:ASN:ND2	2.27	0.50
1:W:244:GLN:NE2	1:X:281:TRP:HE1	56.75	0.50
1:Y:342:HIS:CE1	1:7:406:ASN:CB	185.48	0.50
1:H:342:HIS:CE1	1:Y:406:ASN:CB	2.94	0.50
1:Y:280:HIS:HD2	1:Y:443:ASP:OD2	1.94	0.50
1:Y:530:ASN:ND2	1:Z:547:LEU:HD21	2.26	0.50
1:Y:287:THR:CG2	1:Y:569:MET:CG	2.90	0.50
1:Z:117:SER:HB2	1:Z:191:ASN:ND2	2.26	0.50
1:X:342:HIS:CE1	1:Z:406:ASN:CB	117.55	0.50
1:0:407:TRP:CZ3	1:0:410:LYS:HE2	2.46	0.50
1:1:145:THR:OG1	1:1:514:THR:OG1	2.27	0.50
1:4:319:ASP:HB3	1:4:320:PRO:HD3	1.93	0.50
1:F:342:HIS:HD2	1:4:331:HIS:CE1	136.02	0.50
1:4:339:TRP:CE3	1:4:350:ILE:HD11	2.46	0.50
1:4:287:THR:CG2	1:4:569:MET:CG	2.90	0.50
1:4:57:ILE:HB	1:4:519:LEU:HB2	1.94	0.50
1:A:281:TRP:HE1	1:6:244:GLN:NE2	166.56	0.50
1:5:547:LEU:HD21	1:6:530:ASN:ND2	2.26	0.50
1:6:287:THR:CG2	1:6:569:MET:SD	2.99	0.50
1:B:287:THR:CG2	1:B:569:MET:CG	2.90	0.50
1:C:244:GLN:NE2	1:E:281:TRP:HE1	87.00	0.50
1:C:281:TRP:HE1	1:2:244:GLN:NE2	2.09	0.50
1:C:34:GLY:HA2	1:D:37:HIS:CE1	2.46	0.50
1:D:406:ASN:CB	1:N:342:HIS:CE1	2.94	0.50
1:F:244:GLN:NE2	1:4:281:TRP:HE1	122.93	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:406:ASN:CB	1:H:342:HIS:CE1	72.09	0.50
1:H:387:ASP:N	1:H:387:ASP:OD1	2.43	0.50
1:H:407:TRP:CZ3	1:H:410:LYS:HE2	2.46	0.50
1:H:280:HIS:HD2	1:H:443:ASP:OD2	1.94	0.50
1:I:356:PHE:CG	1:I:405:THR:HA	2.47	0.50
1:I:406:ASN:CB	1:J:342:HIS:CE1	59.91	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:J:57:ILE:HB	1:J:519:LEU:HB2	1.94	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:Q:356:PHE:CG	1:Q:405:THR:HA	2.47	0.50
1:Q:57:ILE:HB	1:Q:519:LEU:HB2	1.94	0.50
1:Q:281:TRP:HE1	1:R:244:GLN:NE2	56.78	0.50
1:Q:569:MET:HE1	1:R:459:PRO:HB3	59.67	0.50
1:T:356:PHE:CG	1:T:405:THR:HA	2.47	0.50
1:U:287:THR:HG21	1:U:569:MET:HE3	1.92	0.50
1:U:359:ALA:HA	1:U:362:SER:HB2	1.92	0.50
1:V:356:PHE:CG	1:V:405:THR:HA	2.47	0.50
1:W:319:ASP:HB3	1:W:320:PRO:HD3	1.93	0.50
1:W:407:TRP:CZ3	1:W:410:LYS:HE2	2.46	0.50
1:W:530:ASN:ND2	1:1:547:LEU:HD21	109.89	0.50
1:Y:356:PHE:CG	1:Y:405:THR:HA	2.47	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
1:0:280: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
1:0:468:SER:OG	1:0:471:ALA:O	2.21	0.50
1:J:331:HIS:CE1	1:3:342:HIS:HD2	130.43	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:280:HIS:HD2	1:A:443:ASP:OD2	1.94	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:E:287:THR:CG2	1:E:569:MET:CG	2.90	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:H:384:GLY:O	1:H:555:GLU:HG3	2.12	0.50
1:G:569:MET:HE2	1:I:459:PRO:HB3	1.93	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	62.69	0.50
1:L:406:ASN:CB	1:M:342:HIS:CE1	83.40	0.50
1:M:384:GLY:O	1:M:555:GLU:HG3	2.12	0.50
1:D:281:TRP:HE1	1:N:244:GLN:NE2	2.10	0.50
1:N:57:ILE:HB	1:N:519:LEU:HB2	1.94	0.50
1:N:547:LEU:HD21	1:Y:530:ASN:ND2	206.49	0.50
1:N:547:LEU:HD21	1:O:530:ASN:ND2	2.27	0.50
1:O:287:THR:CG2	1:O:569:MET:CG	2.90	0.50
1:O:57:ILE:HB	1:O:519:LEU:HB2	1.94	0.50
1:P:117:SER:HB2	1:P:191:ASN:ND2	2.26	0.50
1:P:200:ILE:HD11	1:P:203:ARG:CG	2.38	0.50
1:N:342:HIS:CE1	1:P:406:ASN:CB	24.85	0.50
1:P:287:THR:CG2	1:P:569:MET:CG	2.90	0.50
1:P:287:THR:HG21	1:P:569:MET:HE3	1.93	0.50
1:Q:406:ASN:CB	1:R:342:HIS:CE1	72.12	0.50
1:R:356:PHE:CG	1:R:405:THR:HA	2.47	0.50
1:R:57:ILE:HB	1:R:519:LEU:HB2	1.94	0.50
1:S:117:SER:HB2	1:S:191:ASN:ND2	2.27	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	99.72	0.50
1:U:280:HIS:HD2	1:U:443:ASP:OD2	1.94	0.50
1:U:281:TRP:HE1	1:V:244:GLN:NE2	56.75	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:X:339:TRP:CE3	1:X:350:ILE:HD11	2.46	0.50
1:Y:244:GLN:NE2	1:7:281:TRP:HE1	163.91	0.50
1:Y:331:HIS:CE1	1:Z:342:HIS:HD2	69.74	0.50
1:7:530:ASN:ND2	1:0:547:LEU:HD21	2.26	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:J:406:ASN:CB	1:3:342:HIS:CE1	138.35	0.50
1:3:356:PHE:CG	1:3:405:THR:HA	2.47	0.50
1:I:342:HIS:CE1	1:3:406:ASN:CB	185.49	0.50
1:4:117:SER:HB2	1:4:191:ASN:ND2	2.27	0.50
1:4:387:ASP:N	1:4:387:ASP:OD1	2.43	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:5:57:ILE:HB	1:5:519:LEU:HB2	1.94	0.50
1:Z:327:VAL:HG13	1:7:192:MET:SD	140.29	0.50
1:7:359:ALA:HA	1:7:362:SER:HB2	1.92	0.50
1:B:280:HIS:HD2	1:B:443:ASP:OD2	1.94	0.50
1:A:244:GLN:NE2	1:B:281:TRP:HE1	33.69	0.50
1:B:393:GLN:HE22	1:L:318:SER:CB	2.24	0.50
1:C:280:HIS:HD2	1:C:443:ASP:OD2	1.95	0.50
1:D:287:THR:CG2	1:D:569:MET:CG	2.90	0.50
1:E:200:ILE:HD11	1:E:203:ARG:CG	2.38	0.50
1:F:34:GLY:HA2	1:R:37:HIS:CE1	2.45	0.50
1:F:356:PHE:CG	1:F:405:THR:HA	2.47	0.50
1:F:57:ILE:HB	1:F:519:LEU:HB2	1.94	0.50
1:H:242:ASP:OD2	1:Y:279:TYR:OH	2.29	0.50
1:H:318:SER:CB	1:O:393:GLN:HE22	201.26	0.50
1:H:318:SER:CB	1:W:393:GLN:HE22	2.24	0.50
1:I:281:TRP:HE1	1:J:244:GLN:NE2	33.68	0.50
1:J:117:SER:HB2	1:J:191:ASN:ND2	2.26	0.50
1:J:281:TRP:HE1	1:3:244:GLN:NE2	131.07	0.50
1:J:331:HIS:CE1	1:L:342:HIS:HD2	2.29	0.50
1:K:200:ILE:HD11	1:K:203:ARG:CG	2.38	0.50
1:K:530:ASN:ND2	1:R:547:LEU:HD21	166.58	0.50
1:K:57:ILE:HB	1:K:519:LEU:HB2	1.94	0.50
1:C:547:LEU:HD21	1:L:530:ASN:ND2	2.26	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:404:GLN:NE2	1:O:443:ASP:H	2.09	0.50
1:S:287:THR:CG2	1:S:569:MET:CG	2.90	0.50
1:S:287:THR:HG21	1:S:569:MET:HE3	1.96	0.50
1:F:406:ASN:CB	1:T:342:HIS:CE1	151.56	0.50
1:T:393:GLN:NE2	1:V:318:SER:HB2	93.39	0.50
1:S:327:VAL:HG13	1:U:192:MET:SD	2.50	0.50
1:U:406:ASN:CB	1:V:342:HIS:CE1	72.09	0.50
1:T:459:PRO:HB3	1:V:569:MET:HE2	94.42	0.50
1:V:530:ASN:ND2	1:X:547:LEU:HD21	80.09	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	72.10	0.50
1:K:461:THR:HB	1:0:442:VAL:O	2.12	0.50
1:0:287:THR:CG2	1:0:569:MET:CG	2.90	0.50
1:0:57:ILE:HB	1:0:519:LEU:HB2	1.94	0.50
1:K:318:SER:HB2	1:1:393:GLN:NE2	2.27	0.50
1:1:287:THR:CG2	1:1:569:MET:CG	2.90	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:3:200:ILE:HD11	1:3:203:ARG:CG	2.38	0.50
1:J:318:SER:CB	1:3:393:GLN:HE22	109.45	0.50
1:3:57:ILE:HB	1:3:519:LEU:HB2	1.94	0.50
1:4:356:PHE:CG	1:4:405:THR:HA	2.47	0.50
1:F:342:HIS:CE1	1:4:406:ASN:CB	132.82	0.50
1:4:477:ASP:OD1	1:4:478:GLY:N	2.43	0.50
1:X:393:GLN:NE2	1:5:318:SER:HB2	2.27	0.50
1:U:37:HIS:CE1	1:5:34:GLY:HA2	2.45	0.50
1:7:384:GLY:O	1:7:555:GLU:HG3	2.12	0.50
1:7:141:HIS:CE1	1:7:518:ILE:HD12	2.47	0.50
1:A:384:GLY:O	1:A:555:GLU:HG3	2.12	0.50
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:D:459:PRO:HB3	1:P:569:MET:HE2	1.93	0.50
1:G:287:THR:HG21	1:G:569:MET:HE3	1.93	0.50
1:G:387:ASP:N	1:G:387:ASP:OD1	2.43	0.50
1:H:356:PHE:CG	1:H:405:THR:HA	2.47	0.50
1:G:318:SER:HB2	1:I:393:GLN:NE2	2.27	0.50
1:J:387:ASP:OD1	1:J:387:ASP:N	2.43	0.50
1:K:342:HIS:CE1	1:M:406:ASN:CB	136.38	0.50
1:K:356:PHE:CG	1:K:405:THR:HA	2.47	0.50
1:K:393:GLN:HE22	1:M:318:SER:CB	109.06	0.50
1:M:356:PHE:CG	1:M:405:THR:HA	2.47	0.50
1:M:287:THR:CG2	1:M:569:MET:CG	2.90	0.50
1:N:281:TRP:HE1	1:O:244:GLN:NE2	56.75	0.50
1:H:406:ASN:CB	1:O:342:HIS:CE1	208.46	0.50
1:N:318:SER:HB2	1:O:393:GLN:NE2	56.58	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:U:384:GLY:O	1:U:555:GLU:HG3	2.12	0.50
1:U:141:HIS:CE1	1:U:518:ILE:HD12	2.47	0.50
1:V:442:VAL:O	1:5:461:THR:HB	2.12	0.50
1:V:287:THR:CG2	1:V:569:MET:CG	2.90	0.50
1:W:468:SER:OG	1:W:471:ALA:O	2.22	0.50
1:X:242:ASP:OD2	1:Z:279:TYR:OH	102.46	0.50
1:X:287:THR:CG2	1:X:569:MET:CG	2.90	0.50
1:N:530:ASN:ND2	1:Y:547:LEU:HD21	206.50	0.50
1:Z:356:PHE:CG	1:Z:405:THR:HA	2.47	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:S:37:HIS:CE1	1:4:34:GLY:HA2	2.46	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
1:7:468:SER:OG	1:7:471:ALA:O	2.22	0.50
1:A:393:GLN:HE22	1:B:318:SER:CB	99.74	0.50
1:B:342:HIS:CE1	1:L:406:ASN:CB	2.95	0.50
1:A:461:THR:HB	1:B:442:VAL:O	49.79	0.50
1:B:461:THR:HB	1:L:442:VAL:O	2.12	0.50
1:C:141:HIS:CE1	1:C:518:ILE:HD12	2.47	0.50
1:C:200:ILE:HD11	1:C:203:ARG:CG	2.38	0.50
1:D:384:GLY:O	1:D:555:GLU:HG3	2.12	0.50
1:D:356:PHE:CG	1:D:405:THR:HA	2.47	0.50
1:D:141:HIS:CE1	1:D:518:ILE:HD12	2.47	0.50
1:D:57:ILE:HB	1:D:519:LEU:HB2	1.94	0.50
1:E:406:ASN:CB	1:Q:342:HIS:HE1	2.24	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: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:280:HIS:HD2	1:I:443:ASP:OD2	1.94	0.50
1:I:141:HIS:CE1	1:I:518:ILE:HD12	2.47	0.50
1:J:318:SER:HB2	1:3:393:GLN:NE2	108.63	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:J:406:ASN:CB	1:L:342:HIS:CE1	2.95	0.50
1:M:141:HIS:CE1	1:M:518:ILE:HD12	2.47	0.50
1:D:342:HIS:CE1	1:P:406:ASN:CB	2.95	0.50
1:Q:461:THR:HB	1:S:442:VAL:O	83.58	0.50
1:Q:141:HIS:CE1	1:Q:518:ILE:HD12	2.47	0.50
1:R:141:HIS:CE1	1:R:518:ILE:HD12	2.47	0.50
1:Q:342:HIS:CE1	1:S:406:ASN:CB	91.87	0.50
1:S:530:ASN:ND2	1:T:547:LEU:HD21	2.26	0.50
1:Q:459:PRO:HB3	1:S:569:MET:HE2	86.59	0.50
1:T:141:HIS:CE1	1:T:518:ILE:HD12	2.47	0.50
1:T:281:TRP:HE1	1:4:244:GLN:NE2	2.10	0.50
1:T:280:HIS:HD2	1:T:443:ASP:OD2	1.94	0.50
1:S:281:TRP:HE1	1:U:244:GLN:NE2	2.10	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:V:468:SER:OG	1:V:471:ALA:O	2.22	0.50
1:V:287:THR:HG21	1:V:569:MET:HE3	1.98	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:W:387:ASP:OD1	1:W:387:ASP:N	2.43	0.50
1:W:393:GLN:HE22	1:X:318:SER:CB	56.44	0.50
1:V:342:HIS:CE1	1:X:406:ASN:CB	2.95	0.50
1:Y:393:GLN:NE2	1:7:318:SER:HB2	173.19	0.50
1:Z:281:TRP:HE1	1:7:244:GLN:NE2	155.87	0.50
1:Y:318:SER:HB2	1:Z:393:GLN:NE2	56.60	0.50
1:I:547:LEU:HD21	1:Z:530:ASN:ND2	110.80	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:K:406:ASN:CB	1:1:342:HIS:CE1	2.94	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:F:393:GLN:HE22	1:4:318:SER:CB	179.71	0.50
1:B:244:GLN:NE2	1:6:281:TRP:HE1	200.37	0.50
1:A:342:HIS:CE1	1:B:406:ASN:CB	59.90	0.50
1:B:141:HIS:CE1	1:B:518:ILE:HD12	2.47	0.50
1:C:318:SER:HB2	1:D:393:GLN:NE2	93.77	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:E:384:GLY:O	1:E:555:GLU:HG3	2.12	0.50
1:F:37:HIS:CE1	1:G:34:GLY:HA2	2.46	0.50
1:I:384:GLY:O	1:I:555:GLU:HG3	2.12	0.50
1:J:108:THR:HG22	1:J:210:TYR:O	2.13	0.50
1:L:141:HIS:CE1	1:L:518:ILE:HD12	2.47	0.50
1:N:141:HIS:CE1	1:N:518:ILE:HD12	2.47	0.50
1:N:117:SER:HB2	1:N:191:ASN:ND2	2.26	0.50
1:D:442:VAL:O	1:N:461:THR:HB	2.12	0.50
1:D:393:GLN:HE22	1:P:318:SER:CB	2.24	0.50
1:Q:280:HIS:HD2	1:Q:443:ASP:OD2	1.94	0.50
1:Q:442:VAL:O	1:R:461:THR:HB	66.18	0.50
1:Q:331:HIS:CE1	1:R:342:HIS:HD2	69.77	0.50
1:R:384:GLY:O	1:R:555:GLU:HG3	2.12	0.50
1:S:477:ASP:OD1	1:S:478:GLY:N	2.43	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
1:Z:141:HIS:CE1	1:Z:518:ILE:HD12	2.47	0.50
1:O:356:PHE:CG	1:O:405:THR:HA	2.47	0.49
1:2:117:SER:HB2	1:2:191:ASN:ND2	2.27	0.49
1:M:393:GLN:NE2	1:2:318:SER:HB2	2.27	0.49
1:C:318:SER:HB2	1:2:393:GLN:NE2	2.27	0.49
1:3:82:ARG:HG2	1:3:86:PHE:CG	2.46	0.49
1:4:108:THR:HG22	1:4:210:TYR:O	2.13	0.49
1:F:393:GLN:NE2	1:4:318:SER:HB2	178.86	0.49
1:F:461:THR:HB	1:4:442:VAL:O	114.06	0.49
1:X:342:HIS:CE1	1:5:406:ASN:CB	2.94	0.49
1:6:210:TYR:HE1	1:6:482:GLN:HE21	1.58	0.49
1:B:342:HIS:CE1	1:6:406:ASN:CB	219.59	0.49
1:6:57:ILE:HB	1:6:519:LEU:HB2	1.94	0.49
1:A:331:HIS:CE1	1:G:342:HIS:HD2	2.30	0.49
1:A:393:GLN:NE2	1:B:318:SER:HB2	100.01	0.49
1:A:530:ASN:ND2	1:F:547:LEU:HD21	2.26	0.49
1:B:393:GLN:NE2	1:L:318:SER:HB2	2.27	0.49
1:C:117:SER:HB2	1:C:191:ASN:ND2	2.27	0.49
1:C:384:GLY:O	1:C:555:GLU:HG3	2.12	0.49
1:C:406:ASN:CB	1:2:342:HIS:CE1	2.94	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:I:393:GLN:NE2	1:3:318:SER:HB2	173.19	0.49
1:J:442:VAL:O	1:3:461:THR:HB	125.90	0.49
1:K:461:THR:HB	1:M:442:VAL:O	124.27	0.49
1:J:281:TRP:HE1	1:L:244:GLN:NE2	2.10	0.49
1:M:57:ILE:HB	1:M:519:LEU:HB2	1.94	0.49
1:N:384:GLY:O	1:N:555:GLU:HG3	2.12	0.49
1:N:280:HIS:HD2	1:N:443:ASP:OD2	1.94	0.49
1:O:37:HIS:CE1	1:V:34:GLY:HA2	98.02	0.49
1:O:384:GLY:O	1:O:555:GLU:HG3	2.12	0.49
1:H:442:VAL:O	1:O:461:THR:HB	186.00	0.49
1:O:318:SER:HB2	1:P:393:GLN:NE2	100.00	0.49
1:Q:384:GLY:O	1:Q:555:GLU:HG3	2.12	0.49
1:Q:393:GLN:HE22	1:S:318:SER:CB	94.69	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:U:287:THR:CG2	1:U:569:MET:CG	2.90	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:X:86:PHE:CG	1:X:87:PRO:HD2	2.47	0.49
1:Y:86:PHE:CG	1:Y:87:PRO:HD2	2.48	0.49
1:0:117:SER:HB2	1:0:191:ASN:ND2	2.26	0.49
1:0:477:ASP:OD1	1:0:478:GLY:N	2.43	0.49
1:0:141:HIS:CE1	1:0:518:ILE:HD12	2.47	0.49
1:1:384:GLY:O	1:1:555:GLU:HG3	2.12	0.49
1:1:86:PHE:CG	1:1:87:PRO:HD2	2.48	0.49
1:M:342:HIS:CE1	1:2:406:ASN:CB	2.95	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
1:7:280: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:A:141:HIS:CE1	1:A:518:ILE:HD12	2.47	0.49
1:A:86:PHE:CG	1:A:87:PRO:HD2	2.48	0.49
1:B:342:HIS:HD2	1:L:331:HIS:CE1	2.29	0.49
1:C:406:ASN:CB	1:D:342:HIS:CE1	91.86	0.49
1:C:86:PHE:CG	1:C:87:PRO:HD2	2.48	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:C:342:HIS:CE1	1:E:406:ASN:CB	115.95	0.49
1:E:280:HIS:HD2	1:E:443:ASP:OD2	1.94	0.49
1:E:141:HIS:CE1	1:E:518:ILE:HD12	2.47	0.49
1:G:108:THR:HG22	1:G:210:TYR:O	2.12	0.49
1:J:86:PHE:CG	1:J:87:PRO:HD2	2.48	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:D:331:HIS:CE1	1:N:342:HIS:HD2	2.29	0.49
1:P:156:LYS:HD3	1:P:165:THR:HG22	1.95	0.49
1:P:280:HIS:HD2	1:P:443:ASP:OD2	1.94	0.49
1:P:57:ILE:HB	1:P:519:LEU:HB2	1.93	0.49
1:Q:108:THR:HG22	1:Q:210:TYR:O	2.13	0.49
1:R:108:THR:HG22	1:R:210:TYR:O	2.12	0.49
1:R:86:PHE:CG	1:R:87:PRO:HD2	2.48	0.49
1:S:280:HIS:HD2	1:S:443:ASP:OD2	1.94	0.49
1:S:384:GLY:O	1:S:555:GLU:HG3	2.12	0.49
1:S:406:ASN:CB	1:U:342:HIS:CE1	2.94	0.49
1:S:141:HIS:CE1	1:S:518:ILE:HD12	2.47	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:T:406:ASN:CB	1:U:342:HIS:CE1	59.91	0.49
1:T:86:PHE:CG	1:T:87:PRO:HD2	2.47	0.49
1:S:331:HIS:CE1	1:U:342:HIS:HD2	2.29	0.49
1:V:141:HIS:CE1	1:V:518:ILE:HD12	2.47	0.49
1:W:141:HIS:CE1	1:W:518:ILE:HD12	2.47	0.49
1:W:86:PHE:CG	1:W:87:PRO:HD2	2.48	0.49
1:X:393:GLN:NE2	1:Z:318:SER:HB2	93.39	0.49
1:Y:384:GLY:O	1:Y:555:GLU:HG3	2.12	0.49
1:W:318:SER:HB2	1:Y:393:GLN:NE2	2.26	0.49
1:Z:384:GLY:O	1:Z:555:GLU:HG3	2.12	0.49
1:1:318:SER:HB2	1:0:393:GLN:NE2	2.27	0.49
1:1:108:THR:HG22	1:1:210:TYR:O	2.13	0.49
1:K:442:VAL:O	1:1:461:THR:HB	2.12	0.49
1:C:569:MET:HE1	1:2:459:PRO:HB3	1.93	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:Z:406:ASN:CB	1:7:342:HIS:CE1	151.55	0.49
1:A:342:HIS:HD2	1:B:331:HIS:CE1	62.68	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:C:393:GLN:NE2	1:E:318:SER:HB2	141.21	0.49
1:D:442:VAL:O	1:E:461:THR:HB	83.58	0.49
1:E:156:LYS:HD3	1:E:165:THR:HG22	1.95	0.49
1:F:117:SER:HB2	1:F:191:ASN:ND2	2.26	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:H:86:PHE:CG	1:H:87:PRO:HD2	2.48	0.49
1:I:57:ILE:HB	1:I:519:LEU:HB2	1.94	0.49
1:J:156:LYS:HD3	1:J:165:THR:HG22	1.95	0.49
1:K:384:GLY:O	1:K:555:GLU:HG3	2.12	0.49
1:N:108:THR:HG22	1:N:210:TYR:O	2.13	0.49
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:R:279:TYR:OH	1:S:242:ASP:OD2	2.29	0.49
1:F:318:SER:HB2	1:T:393:GLN:NE2	153.96	0.49
1:V:108:THR:HG22	1:V:210:TYR:O	2.13	0.49
1:U:289:SER:HA	1:V:188:VAL:CG2	49.89	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:X:461:THR:HB	1:5:442:VAL:O	2.12	0.49
1:X:384:GLY:O	1:X:555:GLU:HG3	2.12	0.49
1:Z:331:HIS:CE1	1:7:342:HIS:HD2	148.08	0.49
1:K:393:GLN:NE2	1:0:318:SER:HB2	2.27	0.49
1:0:359:ALA:HA	1:0:362:SER:HB2	1.92	0.49
1:Y:34:GLY:HA2	1:0:37:HIS:CE1	100.70	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:M:459:PRO:HB3	1:2:569:MET:HE1	1.93	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:V:318:SER:HB2	1:5:393:GLN:NE2	2.27	0.49
1:6:384:GLY:O	1:6:555:GLU:HG3	2.12	0.49
1:7:356:PHE:CG	1:7:405:THR:HA	2.47	0.49
1:Y:459:PRO:HB3	1:7:569:MET:HE2	160.20	0.49
1:A:200:ILE:HD11	1:A:203:ARG:CG	2.38	0.49
1:A:406:ASN:CB	1:6:342:HIS:CE1	186.13	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:D:86:PHE:CG	1:D:87:PRO:HD2	2.47	0.49
1:D:406:ASN:CB	1:E:342:HIS:CE1	91.86	0.49
1:E:86:PHE:CG	1:E:87:PRO:HD2	2.48	0.49
1:A:318:SER:HB2	1:G:393:GLN:NE2	2.27	0.49
1:G:289:SER:HA	1:H:188:VAL:CG2	49.89	0.49
1:H:461:THR:HB	1:Y:442:VAL:O	2.12	0.49
1:I:477:ASP:OD1	1:I:478:GLY:N	2.43	0.49
1:I:287:THR:HG21	1:I:569:MET:CE	2.43	0.49
1:I:86:PHE:CG	1:I:87:PRO:HD2	2.48	0.49
1:K:86:PHE:CG	1:K:87:PRO:HD2	2.47	0.49
1:L:384:GLY:O	1:L:555:GLU:HG3	2.12	0.49
1:L:289:SER:HA	1:M:188:VAL:CG2	90.37	0.49
1:C:461:THR:HB	1:M:442:VAL:O	2.13	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:N:86:PHE:CG	1:N:87:PRO:HD2	2.48	0.49
1:O:281:TRP:HE1	1:P:244:GLN:NE2	33.68	0.49
1:O:356:PHE:CG	1:O:405:THR:HA	2.47	0.49
1:N:442:VAL:O	1:O:461:THR:HB	66.16	0.49
1:O:86:PHE:CG	1:O:87:PRO:HD2	2.48	0.49
1:N:393:GLN:NE2	1:P:318:SER:HB2	56.54	0.49
1:Q:156:LYS:HD3	1:Q:165:THR:HG22	1.95	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Q:318:SER:HB2	1:R:393:GLN:NE2	56.63	0.49
1:R:34:GLY:HA2	1:V:37:HIS:CE1	2.46	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:108:THR:HG22	1:T:210:TYR:O	2.12	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:T:57:ILE:HB	1:T:519:LEU:HB2	1.94	0.49
1:U:156:LYS:HD3	1:U:165:THR:HG22	1.95	0.49
1:H:289:SER:HA	1:W:188:VAL:CG2	2.43	0.49
1:W:188:VAL:CG2	1:X:289:SER:HA	49.89	0.49
1:W:318:SER:HB2	1:Z:393:GLN:NE2	52.96	0.49
1:W:461:THR:HB	1:X:442:VAL:O	66.16	0.49
1:V:393:GLN:NE2	1:X:318:SER:HB2	2.27	0.49
1:X:57:ILE:HB	1:X:519:LEU:HB2	1.94	0.49
1:J:34:GLY:HA2	1:Z:37:HIS:CE1	12.58	0.49
1:I:442:VAL:O	1:O:461:THR:HB	2.12	0.49
1:I:287:THR:HG21	1:I:569:MET:CE	2.43	0.49
1:3:384:GLY:O	1:3:555:GLU:HG3	2.12	0.49
1:B:461:THR:HB	1:6:442:VAL:O	195.04	0.49
1:7:156:LYS:HD3	1:7:165:THR:HG22	1.95	0.49
1:7:75:TYR:OH	1:7:249:GLU:OE1	2.27	0.49
1:7:287:THR:HG21	1:7:569:MET:HE3	1.93	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:B:287:THR:HG21	1:B:569:MET:HE3	1.95	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:G:569:MET:HE1	1:I:459:PRO:HB3	1.94	0.49
1:L:156:LYS:HD3	1:L:165:THR:HG22	1.95	0.49
1:J:442:VAL:O	1:L:461:THR:HB	2.13	0.49
1:M:108:THR:HG22	1:M:210:TYR:O	2.13	0.49
1:N:287:THR:HG21	1:N:569:MET:CE	2.43	0.49
1:N:406:ASN:CB	1:O:342:HIS:CE1	72.09	0.49
1:O:442:VAL:O	1:P:461:THR:HB	49.80	0.49
1:F:393:GLN:HE22	1:Q:318:SER:CB	2.24	0.49
1:Q:453:ALA:H	1:Q:470:HIS:HE1	1.61	0.49
1:Q:86:PHE:CG	1:Q:87:PRO:HD2	2.48	0.49
1:S:57:ILE:HB	1:S:519:LEU:HB2	1.94	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:T:289:SER:HA	1:U:188:VAL:CG2	60.61	0.49
1:U:477:ASP:OD1	1:U:478:GLY:N	2.43	0.49
1:U:287:THR:HG21	1:U:569:MET:CE	2.43	0.49
1:V:86:PHE:CG	1:V:87:PRO:HD2	2.48	0.49
1:Y:108:THR:HG22	1:Y:210:TYR:O	2.13	0.49
1:Z:57:ILE:HB	1:Z:519:LEU:HB2	1.94	0.49
1:Z:86:PHE:CG	1:Z:87:PRO:HD2	2.48	0.49
1:0:86:PHE:CG	1:0:87:PRO:HD2	2.48	0.49
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:Z:442:VAL:O	1:7:461:THR:HB	136.75	0.49
1:A:156:LYS:HD3	1:A:165:THR:HG22	1.95	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:D:156:LYS:HD3	1:D:165:THR:HG22	1.95	0.49
1:C:289:SER:HA	1:D:188:VAL:CG2	93.91	0.49
1:D:318:SER:HB2	1:E:393:GLN:NE2	93.77	0.49
1:C:569:MET:HE1	1:D:459:PRO:HB3	86.07	0.49
1:E:318:SER:HB2	1:Q:393:GLN:NE2	2.27	0.49
1:E:287:THR:HG21	1:E:569:MET:CE	2.43	0.49
1:G:156:LYS:HD3	1:G:165:THR:HG22	1.95	0.49
1:A:289:SER:HA	1:G:188:VAL:CG2	2.43	0.49
1:G:342:HIS:HE1	1:O:406:ASN:CG	179.60	0.49
1:H:406:ASN:CB	1:W:342:HIS:CE1	2.95	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	100.00	0.49
1:J:384:GLY:O	1:J:555:GLU:HG3	2.12	0.49
1:K:406:ASN:CB	1:L:342:HIS:CE1	59.91	0.49
1:M:477:ASP:OD1	1:M:478:GLY:N	2.43	0.49
1:N:453:ALA:H	1:N:470:HIS:HE1	1.61	0.49
1:N:569:MET:HE1	1:P:459:PRO:HB3	1.95	0.49
1:N:569:MET:HE2	1:P:459:PRO:HB3	1.94	0.49
1:O:287:THR:HG21	1:O:569:MET:CE	2.43	0.49
1:G:342:HIS:CE1	1:O:406:ASN:CB	178.39	0.49
1:P:287:THR:HG21	1:P:569:MET:CE	2.43	0.49
1:P:34:GLY:HA2	1:U:37:HIS:CE1	99.72	0.49
1:R:287:THR:HG21	1:R:569:MET:CE	2.43	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:S:287:THR:HG21	1:S:569:MET:CE	2.43	0.49
1:T:281:TRP:HE1	1:U:244:GLN:NE2	33.68	0.49
1:U:318:SER:HB2	1:V:393:GLN:NE2	56.58	0.49
1:R:461:THR:HB	1:U:442:VAL:O	2.12	0.49
1:V:156:LYS:HD3	1:V:165:THR:HG22	1.95	0.49
1:V:461:THR:HB	1:X:442:VAL:O	2.12	0.49
1:T:459:PRO:HB3	1:V:569:MET:HE1	94.94	0.49
1:W:342:HIS:CE1	1:X:406:ASN:CB	72.09	0.49
1:X:453:ALA:H	1:X:470:HIS:HE1	1.61	0.49
1:X:287:THR:HG21	1:X:569:MET:CE	2.43	0.49
1:W:442:VAL:O	1:Y:461:THR:HB	2.13	0.49
1:Z:280:HIS:HD2	1:Z:443:ASP:OD2	1.94	0.49
1:X:461:THR:HB	1:Z:442:VAL:O	106.78	0.49
1:W:442:VAL:O	1:Z:461:THR:HB	84.09	0.49
1:O:156:LYS:HD3	1:O:165:THR:HG22	1.95	0.49
1:I:453:ALA:H	1:I:470:HIS:HE1	1.61	0.49
1:M:188:VAL:CG2	1:2:289:SER:HA	2.43	0.49
1:3:86:PHE:CG	1:3:87:PRO:HD2	2.48	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:Y:461:THR:HB	1:7:442:VAL:O	166.25	0.49
1:C:108:THR:HG22	1:C:210:TYR:O	2.13	0.49
1:D:459:PRO:HB3	1:P:569:MET:HE1	1.94	0.49
1:F:406:ASN:CG	1:T:342:HIS:HE1	152.30	0.49
1:F:86:PHE:CG	1:F:87:PRO:HD2	2.48	0.49
1:G:331:HIS:CE1	1:I:342:HIS:HD2	2.29	0.49
1:I:442:VAL:O	1:J:461:THR:HB	49.80	0.49
1:K:287:THR:HG21	1:K:569:MET:CE	2.43	0.49
1:K:141:HIS:CE1	1:K:518:ILE:HD12	2.47	0.49
1:K:406:ASN:CG	1:L:342:HIS:HE1	60.83	0.49
1:L:86:PHE:CG	1:L:87:PRO:HD2	2.48	0.49
1:O:156:LYS:HD3	1:O:165:THR:HG22	1.95	0.49
1:P:108:THR:HG22	1:P:210:TYR:O	2.13	0.49
1:N:342:HIS:HD2	1:P:331:HIS:CE1	24.16	0.49
1:Q:459:PRO:HB3	1:S:569:MET:HE1	86.06	0.49
1:R:289:SER:HA	1:S:188:VAL:CG2	2.43	0.49
1:R:569:MET:HE1	1:S:459:PRO:HB3	1.96	0.49
1:S:200:ILE:HD11	1:S:203:ARG:CG	2.38	0.49
1:U:86:PHE:CG	1:U:87:PRO:HD2	2.48	0.49
1:W:393:GLN:NE2	1:X:318:SER:HB2	56.58	0.49
1:Z:287:THR:HG21	1:Z:569:MET:CE	2.43	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:X:342:HIS:HE1	1:Z:406:ASN:CG	118.99	0.49
1:K:318:SER:CB	1:1:393:GLN:HE22	2.24	0.49
1:1:57:ILE:HB	1:1:519:LEU:HB2	1.94	0.49
1:2:287:THR:CG2	1:2:569:MET:CG	2.90	0.49
1:2:287:THR:HG21	1:2:569:MET:HE3	1.94	0.49
1:T:442:VAL:O	1:4:461:THR:HB	2.13	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:B:453:ALA:H	1:B:470:HIS:HE1	1.61	0.49
1:B:569:MET:HE2	1:J:459:PRO:HB3	1.95	0.49
1:C:477:ASP:OD1	1:C:478:GLY:N	2.43	0.49
1:D:477:ASP:OD1	1:D:478:GLY:N	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:G:86:PHE:CG	1:G:87:PRO:HD2	2.47	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
1:G:442:VAL:O	1:H:461:THR:HB	66.16	0.49
1:H:453:ALA:H	1:H:470:HIS:HE1	1.61	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:K:156:LYS:HD3	1:K:165:THR:HG22	1.95	0.49
1:L:442:VAL:O	1:M:461:THR:HB	71.87	0.49
1:C:393:GLN:NE2	1:M:318:SER:HB2	2.27	0.49
1:M:287:THR:HG21	1:M:569:MET:CE	2.43	0.49
1:D:289:SER:HA	1:N:188:VAL:CG2	2.43	0.49
1:N:289:SER:HA	1:P:188:VAL:CG2	2.43	0.49
1:N:331:HIS:CE1	1:O:342:HIS:HD2	69.74	0.49
1:O:108:THR:HG22	1:O:210:TYR:O	2.13	0.49
1:P:141:HIS:CE1	1:P:518:ILE:HD12	2.47	0.49
1:P:86:PHE:CG	1:P:87:PRO:HD2	2.48	0.49
1:S:108:THR:HG22	1:S:210:TYR:O	2.13	0.49
1:T:156:LYS:HD3	1:T:165:THR:HG22	1.95	0.49
1:T:461:THR:HB	1:V:442:VAL:O	106.78	0.49
1:T:318:SER:HB2	1:U:393:GLN:NE2	100.00	0.49
1:S:442:VAL:O	1:U:461:THR:HB	2.12	0.49
1:T:342:HIS:HD2	1:V:331:HIS:CE1	111.13	0.49
1:Y:156:LYS:HD3	1:Y:165:THR:HG22	1.95	0.49
1:W:289:SER:HA	1:Y:188:VAL:CG2	2.42	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Z:200:ILE:HD11	1:Z:203:ARG:CG	2.38	0.49
1:X:188:VAL:CG2	1:Z:289:SER:HA	78.88	0.49
1:2:200:ILE:HD11	1:2:203:ARG:CG	2.38	0.49
1:I:342:HIS:HE1	1:3:406:ASN:CG	187.16	0.49
1:V:289:SER:HA	1:5:188: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:B:188:VAL:CG2	1:6:289:SER:HA	203.85	0.49
1:6:387:ASP:N	1:6:387:ASP:OD1	2.43	0.49
1:C:287:THR:HG21	1:C:569:MET:HE3	1.94	0.49
1:D:460:ASP:HA	1:D:464:LYS:HE3	1.95	0.49
1:C:442:VAL:O	1:D:461:THR:HB	83.58	0.49
1:E:108:THR:HG22	1:E:210:TYR:O	2.13	0.49
1:D:281:TRP:HE1	1:E:244:GLN:NE2	95.79	0.49
1:F:156:LYS:HD3	1:F:165:THR:HG22	1.95	0.49
1:F:188:VAL:CG2	1:4:289:SER:HA	143.25	0.49
1:G:287:THR:HG21	1:G:569:MET:CE	2.43	0.49
1:H:156:LYS:HD3	1:H:165:THR:HG22	1.95	0.49
1:H:287:THR:HG21	1:H:569:MET:CE	2.43	0.49
1:I:156:LYS:HD3	1:I:165:THR:HG22	1.95	0.49
1:A:342:HIS:CE1	1:I:406:ASN:CB	2.95	0.49
1:J:289:SER:HA	1:3:188:VAL:CG2	115.68	0.49
1:K:453:ALA:H	1:K:470:HIS:HE1	1.61	0.49
1:L:453:ALA:H	1:L:470:HIS:HE1	1.61	0.49
1:D:279:TYR:OH	1:N:242:ASP:OD2	2.29	0.49
1:P:384:GLY:O	1:P:555:GLU:HG3	2.12	0.49
1:Q:406:ASN:CG	1:R:342:HIS:HE1	74.14	0.49
1:Q:460:ASP:HA	1:Q:464:LYS:HE3	1.95	0.49
1:Q:289:SER:HA	1:R:188:VAL:CG2	49.93	0.49
1:U:57:ILE:HB	1:U:519:LEU:HB2	1.93	0.49
1:T:188:VAL:CG2	1:V:289:SER:HA	78.88	0.49
1:W:281:TRP:HE1	1:Z:244:GLN:NE2	95.21	0.49
1:W:289:SER:HA	1:Z:188:VAL:CG2	74.94	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:W:281:TRP:HE1	1:Y:244:GLN:NE2	2.09	0.49
1:Z:108:THR:HG22	1:Z:210:TYR:O	2.13	0.49
1:W:331:HIS:CE1	1:Z:342:HIS:HD2	81.24	0.49
1:Z:406:ASN:CG	1:7:342:HIS:HE1	152.28	0.49
1:Z:453:ALA:H	1:Z:470:HIS:HE1	1.61	0.49
1:0:287:THR:HG21	1:0:569:MET:CE	2.43	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:188:VAL:CG2	1:O:289:SER:HA	2.43	0.49
1:1:141:HIS:CE1	1:1:518:ILE:HD12	2.47	0.49
1:M:461:THR:HB	1:2:442:VAL:O	2.13	0.49
1:C:569:MET:HE2	1:2:459:PRO:HB3	1.95	0.49
1:5:287:THR:HG21	1:5:569:MET:CE	2.43	0.49
1:X:393:GLN:HE22	1:5:318:SER:CB	2.24	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:Y:188:VAL:CG2	1:7:289:SER:HA	158.01	0.49
1:B:108:THR:HG22	1:B:210:TYR:O	2.13	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:406:ASN:CG	1:N:342:HIS:HE1	2.16	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	91.62	0.49
1:E:460:ASP:HA	1:E:464:LYS:HE3	1.95	0.49
1:E:342:HIS:HE1	1:F:406:ASN:CG	2.15	0.49
1:F:460:ASP:HA	1:F:464:LYS:HE3	1.95	0.49
1:H:318:SER:HB2	1:O:393:GLN:NE2	200.29	0.49
1:I:244:GLN:NE2	1:3:281:TRP:HE1	163.91	0.49
1:J:453:ALA:H	1:J:470:HIS:HE1	1.61	0.49
1:L:108:THR:HG22	1:L:210:TYR:O	2.12	0.49
1:M:453:ALA:H	1:M:470:HIS:HE1	1.61	0.49
1:N:289:SER:HA	1:O:188:VAL:CG2	49.88	0.49
1:O:453:ALA:H	1:O:470:HIS:HE1	1.61	0.49
1:E:441:ALA:HB2	1:Q:465:PRO:HG3	1.95	0.49
1:Q:530:ASN:ND2	1:R:547:LEU:HD21	2.28	0.49
1:Q:287:THR:CG2	1:Q:569:MET:CG	2.90	0.49
1:R:156:LYS:HD3	1:R:165:THR:HG22	1.95	0.49
1:F:281:TRP:HE1	1:T:244:GLN:NE2	155.88	0.49
1:U:108:THR:HG22	1:U:210:TYR:O	2.13	0.49
1:T:442:VAL:O	1:U:461:THR:HB	49.80	0.49
1:T:244:GLN:NE2	1:V:281:TRP:HE1	91.05	0.49
1:V:287:THR:HG21	1:V:569:MET:CE	2.43	0.49
1:W:453:ALA:H	1:W:470:HIS:HE1	1.61	0.49
1:X:141:HIS:CE1	1:X:518:ILE:HD12	2.47	0.49
1:W:331:HIS:CE1	1:Y:342:HIS:HD2	2.29	0.49
1:1:281:TRP:HE1	1:O:244:GLN:NE2	2.10	0.48
1:1:289:SER:HA	1:O:188:VAL:CG2	2.43	0.48
1:M:244:GLN:NE2	1:2:281:TRP:HE1	2.10	0.48
1:2:287:THR:HG21	1:2:569:MET:CE	2.43	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:3:460:ASP:HA	1:3:464:LYS:HE3	1.95	0.48
1:4:460:ASP:HA	1:4:464:LYS:HE3	1.95	0.48
1:4:141:HIS:CE1	1:4:518:ILE:HD12	2.47	0.48
1:5:279:TYR:HB3	1:5:562:ARG:HG2	1.96	0.48
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:C:342:HIS:HD2	1:M:331:HIS:CE1	2.29	0.48
1:C:281:TRP:HE1	1:D:244:GLN:NE2	95.79	0.48
1:E:453:ALA:H	1:E:470:HIS:HE1	1.61	0.48
1:F:287:THR:HG21	1:F:569:MET:CE	2.43	0.48
1:G:200:ILE:HD11	1:G:203:ARG:CG	2.38	0.48
1:G:34:GLY:HA2	1:N:37:HIS:CE1	149.85	0.48
1:G:281:TRP:HE1	1:I:244:GLN:NE2	2.09	0.48
1:J:289:SER:HA	1:L:188:VAL:CG2	2.43	0.48
1:J:460:ASP:HA	1:J:464:LYS:HE3	1.95	0.48
1:K:279:TYR:HB3	1:K:562:ARG:HG2	1.95	0.48
1:M:279:TYR:HB3	1:M:562:ARG:HG2	1.96	0.48
1:K:393:GLN:NE2	1:M:318:SER:HB2	107.45	0.48
1:N:318:SER:HB2	1:P:393:GLN:NE2	2.27	0.48
1:S:453:ALA:H	1:S:470:HIS:HE1	1.61	0.48
1:S:318:SER:HB2	1:U:393:GLN:NE2	2.27	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:O:108:THR:HG22	1:O:210:TYR:O	2.13	0.48
1:2:156:LYS:HD3	1:2:165:THR:HG22	1.95	0.48
1:C:289:SER:HA	1:2:188:VAL:CG2	2.43	0.48
1:B:393:GLN:NE2	1:6:318:SER:HB2	231.44	0.48
1:6:287:THR:HG21	1:6:569:MET:CE	2.43	0.48
1:6:86:PHE:CG	1:6:87:PRO:HD2	2.48	0.48
1:Z:318:SER:HB2	1:7:393:GLN:NE2	153.94	0.48
1:A:108:THR:HG22	1:A:210:TYR:O	2.13	0.48
1:A:188:VAL:CG2	1:B:289:SER:HA	60.62	0.48
1:C:442:VAL:O	1:2:461:THR:HB	2.12	0.48
1:H:279:TYR:HB3	1:H:562:ARG:HG2	1.96	0.48
1:I:460:ASP:HA	1:I:464:LYS:HE3	1.95	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:287:THR:HG21	1:K:569:MET:HE3	1.97	0.48
1:K:477:ASP:OD1	1:K:478:GLY:N	2.43	0.48
1:L:34:GLY:HA2	1:R:37:HIS:CE1	148.19	0.48
1:C:342:HIS:HE1	1:M:406:ASN:CG	2.16	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:O:279:TYR:HB3	1:O:562:ARG:HG2	1.95	0.48
1:G:188:VAL:CG2	1:O:289:SER:HA	168.98	0.48
1:O:287:THR:HG21	1:O:569:MET:HE3	1.95	0.48
1:P:460:ASP:HA	1:P:464:LYS:HE3	1.95	0.48
1:P:453:ALA:H	1:P:470:HIS:HE1	1.61	0.48
1:R:188:VAL:CG2	1:U:289:SER:HA	2.43	0.48
1:Q:279:TYR:OH	1:R:242:ASP:OD2	62.88	0.48
1:T:460:ASP:HA	1:T:464:LYS:HE3	1.95	0.48
1:V:188:VAL:CG2	1:X:289:SER:HA	2.43	0.48
1:Z:279:TYR:HB3	1:Z: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
1:7:86:PHE:CG	1:7:87:PRO:HD2	2.48	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:D:289:SER:HA	1:E:188:VAL:CG2	93.92	0.48
1:D:406:ASN:CG	1:E:342:HIS:HE1	93.32	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: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:H:289:SER:HA	1:O:188:VAL:CG2	173.93	0.48
1:O:200:ILE:HD11	1:O:203:ARG:CG	2.38	0.48
1:O:477:ASP:OD1	1:O:478:GLY:N	2.43	0.48
1:R:200:ILE:HD11	1:R:203:ARG:CG	2.38	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
1:0:453:ALA:H	1:0:470:HIS:HE1	1.61	0.48
1:1:200:ILE:HD11	1:1:203:ARG:CG	2.38	0.48
1:3:453:ALA:H	1:3:470:HIS:HE1	1.61	0.48
1:3:287:THR:HG21	1:3:569:MET:CE	2.43	0.48
1:3:287:THR:HG21	1:3:569:MET:HE3	1.95	0.48
1:5:108:THR:HG22	1:5:210:TYR:O	2.13	0.48
1:A:442:VAL:O	1:6:461:THR:HB	167.95	0.48
1:7:335:SER:H	1:7:435:THR:CG2	2.13	0.48
1:A:289:SER:HA	1:6:188:VAL:CG2	151.95	0.48
1:A:318:SER:HB2	1:6:393:GLN:NE2	156.99	0.48
1:A:393:GLN:NE2	1:I:318:SER:HB2	2.28	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:442:VAL:O	1:J:461:THR:HB	2.13	0.48
1:B:460:ASP:HA	1:B:464:LYS:HE3	1.95	0.48
1:C:156:LYS:HD3	1:C:165:THR:HG22	1.95	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:C:461:THR:HB	1:E:442:VAL:O	101.20	0.48
1:C:569:MET:HE2	1:D:459:PRO:HB3	86.58	0.48
1:C:188:VAL:CG2	1:E:289:SER:HA	104.36	0.48
1:E:329:ASN:OD1	1:Q:470:HIS:HB3	2.14	0.48
1:G:460:ASP:HA	1:G:464:LYS:HE3	1.95	0.48
1:G:279:TYR:HB3	1:G:562:ARG:HG2	1.96	0.48
1:I:289:SER:HA	1:J:188:VAL:CG2	60.61	0.48
1:B:289:SER:HA	1:J:188:VAL:CG2	2.43	0.48
1:I:331:HIS:CE1	1:J:342:HIS:HD2	62.69	0.48
1:K:289:SER:HA	1:L:188:VAL:CG2	60.61	0.48
1:L:279:TYR:HB3	1:L:562:ARG:HG2	1.96	0.48
1:K:188:VAL:CG2	1:M:289:SER:HA	114.50	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:O:289:SER:HA	1:P:188:VAL:CG2	60.61	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:R:477:ASP:OD1	1:R:478:GLY:N	2.43	0.48
1:Q:393:GLN:NE2	1:S:318:SER:HB2	93.79	0.48
1:U:442:VAL:O	1:V:461:THR:HB	66.15	0.48
1:W:342:HIS:HD2	1:X:331:HIS:CE1	69.74	0.48
1:Y:442:VAL:O	1:Z:461:THR:HB	66.16	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	151.35	0.48
1:M:459:PRO:HB3	1:2:569:MET:HE2	1.95	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
1:7:57:ILE:HB	1:7:519:LEU:HB2	1.94	0.48
1:E:279:TYR:HB3	1:E:562:ARG:HG2	1.96	0.48
1:F:287:THR:HG21	1:F:569:MET:HE3	2.00	0.48
1:F:442:VAL:O	1:T:461:THR:HB	136.76	0.48
1:J:318:SER:HB2	1:L:393:GLN:NE2	2.27	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:P:279:TYR:HB3	1:P:562:ARG:HG2	1.96	0.48
1:F:192:MET:SD	1:Q:327:VAL:HG13	2.52	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Q:279:TYR:HB3	1:Q:562:ARG:HG2	1.96	0.48
1:Q:287:THR:HG21	1:Q:569:MET:CE	2.43	0.48
1:R:442:VAL:O	1:S:461:THR:HB	2.13	0.48
1:Q:547:LEU:HD21	1:R:530:ASN:ND2	2.28	0.48
1:S:460:ASP:HA	1:S:464:LYS:HE3	1.95	0.48
1:S:289:SER:HA	1:U:188:VAL:CG2	2.43	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:W:287:THR:HG21	1:W:569:MET:CE	2.43	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:L:381:TYR:OH	1:2:74:GLU:OE2	2.32	0.48
1:3:156:LYS:HD3	1:3:165:THR:HG22	1.95	0.48
1:4:287:THR:HG21	1:4:569:MET:CE	2.43	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: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:I:461:THR:HB	1:3:442:VAL:O	166.26	0.48
1:B:318:SER:HB2	1:J:393:GLN:NE2	2.27	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	195.30	0.48
1:N:156:LYS:HD3	1:N:165:THR:HG22	1.95	0.48
1:N:188:VAL:CG2	1:P:289:SER:HA	47.29	0.48
1:Q:386:ASP:CG	1:Q:387:ASP:OD1	2.52	0.48
1:Q:477:ASP:OD1	1:Q:478:GLY:N	2.43	0.48
1:R:453:ALA:H	1:R:470:HIS:HE1	1.61	0.48
1:S:279:TYR:HB3	1:S:562:ARG:HG2	1.96	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:H:331:HIS:CE1	1:W:342:HIS:HD2	2.29	0.48
1:Y:74:GLU:OE2	1:0:381:TYR:OH	158.25	0.48
1:K:342:HIS:HD2	1:0:331:HIS:CE1	2.29	0.48
1:W:381:TYR:OH	1:0:74:GLU:OE2	159.29	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
1:3:108:THR:HG22	1:3:210:TYR:O	2.13	0.48
1:3:386:ASP:CG	1:3:387:ASP:OD1	2.52	0.48
1:T:331:HIS:CE1	1:4:342:HIS:HD2	2.29	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
1:6:460:ASP:HA	1:6:464:LYS:HE3	1.95	0.48
1:6:279:TYR:HB3	1:6:562:ARG:HG2	1.96	0.48
1:7:386:ASP:CG	1:7:387:ASP:OD1	2.52	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:386:ASP:CG	1:F:387:ASP:OD1	2.52	0.48
1:F:477:ASP:OD1	1:F:478:GLY:N	2.43	0.48
1:F:279:TYR:HB3	1:F:562:ARG:HG2	1.96	0.48
1:L:569:MET:HE1	1:M:459:PRO:HB3	78.46	0.48
1:N:279:TYR:HB3	1:N:562:ARG:HG2	1.96	0.48
1:N:376:LYS:HG3	1:N:395:TRP:HB2	1.96	0.48
1:N:406:ASN:CG	1:O:342:HIS:HE1	74.10	0.48
1:P:386:ASP:CG	1:P:387:ASP:OD1	2.52	0.48
1:Q:376:LYS:HG3	1:Q:395:TRP:HB2	1.96	0.48
1:S:386:ASP:CG	1:S:387:ASP:OD1	2.52	0.48
1:C:381:TYR:OH	1:T:74:GLU:OE2	209.80	0.48
1:V:279:TYR:HB3	1:V:562:ARG:HG2	1.96	0.48
1:Y:386:ASP:CG	1:Y:387:ASP:OD1	2.52	0.48
1:Y:289:SER:HA	1:Z:188:VAL:CG2	49.89	0.48
1:Z:386:ASP:CG	1:Z:387:ASP:OD1	2.52	0.48
1:0:279:TYR:HB3	1:0:562:ARG:HG2	1.96	0.48
1:1:279:TYR:HB3	1:1:562:ARG:HG2	1.96	0.48
1:M:342:HIS:HE1	1:2:406:ASN:CG	2.17	0.48
1:2:279:TYR:HB3	1:2:562:ARG:HG2	1.96	0.48
1:3:376:LYS:HG3	1:3:395:TRP:HB2	1.96	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
1:6:386:ASP:CG	1:6:387:ASP:OD1	2.52	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:I:381:TYR:OH	1:7:74:GLU:OE2	139.94	0.48
1:C:460:ASP:HA	1:C:464:LYS:HE3	1.95	0.48
1:D:108:THR:OG1	1:D:110:TRP:HD1	1.97	0.48
1:D:188:VAL:CG2	1:P:289:SER:HA	2.43	0.48
1:D:386:ASP:CG	1:D:387:ASP:OD1	2.52	0.48
1:F:376:LYS:HG3	1:F:395:TRP:HB2	1.96	0.48
1:G:386:ASP:CG	1:G:387:ASP:OD1	2.52	0.48
1:A:442:VAL:O	1:G:461:THR:HB	2.13	0.48
1:H:376:LYS:HG3	1:H:395:TRP:HB2	1.96	0.48
1:I:453:ALA:H	1:I:470:HIS:HE1	1.61	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:74:GLU:OE2	1:2:381:TYR:OH	158.25	0.48
1:J:108:THR:OG1	1:J:110:TRP:HD1	1.97	0.48
1:J:386:ASP:CG	1:J:387:ASP:OD1	2.52	0.48
1:B:342:HIS:HE1	1:L:406:ASN:CG	2.16	0.48
1:M:376:LYS:HG3	1:M:395:TRP:HB2	1.96	0.48
1:M:460:ASP:HA	1:M:464:LYS:HE3	1.95	0.48
1:N:460:ASP:HA	1:N:464:LYS:HE3	1.95	0.48
1:N:74:GLU:OE2	1:S:381:TYR:OH	139.89	0.48
1:P:74:GLU:OE2	1:U:381:TYR:OH	136.67	0.48
1:F:289:SER:HA	1:T:188:VAL:CG2	151.37	0.48
1:T:386:ASP:CG	1:T:387:ASP:OD1	2.52	0.48
1:U:386:ASP:CG	1:U:387:ASP:OD1	2.52	0.48
1:U:279:TYR:HB3	1:U:562:ARG:HG2	1.96	0.48
1:O:381:TYR:OH	1:V:74:GLU:OE2	164.40	0.48
1:X:188:VAL:CG2	1:5:289:SER:HA	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:K:289:SER:HA	1:1:188:VAL:CG2	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:I:459:PRO:HB3	1:3:569:MET:HE2	160.22	0.48
1:5:156:LYS:HD3	1:5:165:THR:HG22	1.95	0.48
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:244:GLN:NE2	1:I:281:TRP:HE1	2.11	0.48
1:A:342:HIS:HE1	1:B:406:ASN:CG	60.82	0.48
1:C:315:GLY:HA3	1:C:417:LEU:O	2.14	0.48
1:C:406:ASN:CG	1:D:342:HIS:HE1	93.32	0.48
1:G:376:LYS:HG3	1:G:395:TRP:HB2	1.96	0.48
1:I:386:ASP:CG	1:I:387:ASP:OD1	2.52	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:L:287:THR:HG21	1:L:569:MET:CE	2.43	0.48
1:L:386:ASP:CG	1:L:387:ASP:OD1	2.52	0.48
1:M:108:THR:OG1	1:M:110:TRP:HD1	1.97	0.48
1:N:108:THR:OG1	1:N:110:TRP:HD1	1.97	0.48
1:Q:188:VAL:CG2	1:S:289:SER:HA	93.91	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:S:315:GLY:HA3	1:S:417:LEU:O	2.14	0.48
1:S:376:LYS:HG3	1:S:395:TRP:HB2	1.96	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:U:108:THR:OG1	1:U:110:TRP:HD1	1.97	0.48
1:X:477:ASP:OD1	1:X:478:GLY:N	2.43	0.48
1:Z:376:LYS:HG3	1:Z:395:TRP:HB2	1.96	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:A:386:ASP:CG	1:A:387:ASP:OD1	2.52	0.48
1:A:460:ASP:HA	1:A:464:LYS:HE3	1.95	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:F:569:MET:HE2	1:T:459:PRO:HB3	139.03	0.48
1:H:406:ASN:CG	1:O:342:HIS:HE1	209.63	0.48
1:H:315:GLY:HA3	1:H:417:LEU:O	2.14	0.48
1:I:188:VAL:CG2	1:3:289:SER:HA	158.02	0.48
1:I:287:THR:HG21	1:I:569:MET:HE3	2.01	0.48
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:M:386:ASP:CG	1:M:387:ASP:OD1	2.52	0.48
1:K:342:HIS:HE1	1:M:406:ASN:CG	136.74	0.48
1:P:108:THR:OG1	1:P:110:TRP:HD1	1.97	0.48
1:P:315:GLY:HA3	1:P:417:LEU:O	2.14	0.48
1:Q:108:THR:OG1	1:Q:110:TRP:HD1	1.97	0.48
1:R:386:ASP:CG	1:R:387:ASP:OD1	2.52	0.48
1:R:460:ASP:HA	1:R:464:LYS:HE3	1.95	0.48
1:T:453:ALA:H	1:T:470:HIS:HE1	1.61	0.48
1:T:287:THR:HG21	1:T:569:MET: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:V:460:ASP:HA	1:V:464:LYS:HE3	1.95	0.48
1:X:315:GLY:HA3	1:X:417:LEU:O	2.14	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
1:3:315: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:A:453:ALA:H	1:A:470:HIS:HE1	1.61	0.47
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:386:ASP:CG	1:C:387:ASP:OD1	2.52	0.47
1:E:315:GLY:HA3	1:E:417:LEU:O	2.14	0.47
1:F:108:THR:OG1	1:F:110:TRP:HD1	1.97	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:108:THR:OG1	1:G:110:TRP:HD1	1.97	0.47
1:G:315:GLY:HA3	1:G:417:LEU:O	2.14	0.47
1:G:461:THR:HB	1:O:442:VAL:O	155.44	0.47
1:F:381:TYR:OH	1:G:74:GLU:OE2	2.32	0.47
1:H:460:ASP:HA	1:H:464:LYS:HE3	1.95	0.47
1:I:376:LYS:HG3	1:I:395:TRP:HB2	1.96	0.47
1:M:315:GLY:HA3	1:M:417:LEU:O	2.14	0.47
1:N:406:ASN:CG	1:P:342:HIS:HE1	2.16	0.47
1:N:315:GLY:HA3	1:N:417:LEU:O	2.14	0.47
1:O:386:ASP:CG	1:O:387:ASP:OD1	2.52	0.47
1:O:376:LYS:HG3	1:O:395:TRP:HB2	1.96	0.47
1:O:406:ASN:CG	1:P:342:HIS:HE1	60.83	0.47
1:O:460:ASP:HA	1:O:464:LYS:HE3	1.95	0.47
1:N:442:VAL:O	1:P:461:THR:HB	2.12	0.47
1:R:217:TRP:CG	1:R:239:ARG:HD2	2.49	0.47
1:R:315:GLY:HA3	1:R:417:LEU:O	2.14	0.47
1:T:376:LYS:HG3	1:T:395:TRP:HB2	1.96	0.47
1:V:386:ASP:CG	1:V:387:ASP:OD1	2.52	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: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:Y:217:TRP:CG	1:Y:239:ARG:HD2	2.50	0.47
1:0:108:THR:OG1	1:0:110:TRP:HD1	1.97	0.47
1:0:386:ASP:CG	1:0:387:ASP:OD1	2.52	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:Y:459:PRO:HB3	1:7:569:MET:HE1	160.52	0.47
1:C:376:LYS:HG3	1:C:395:TRP:HB2	1.96	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:287:THR:HG21	1:D:569:MET:HE3	1.95	0.47
1:E:406:ASN:CB	1:Q:342:HIS:CE1	2.97	0.47
1:F:217:TRP:CG	1:F:239:ARG:HD2	2.50	0.47
1:F:244:GLN:NE2	1:Q:281:TRP:HE1	2.12	0.47
1:F:315:GLY:HA3	1:F:417:LEU:O	2.14	0.47
1:G:477:ASP:OD1	1:G:478:GLY:N	2.43	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:386:ASP:CG	1:H:387:ASP:OD1	2.52	0.47
1:J:315:GLY:HA3	1:J:417:LEU:O	2.14	0.47
1:K:386:ASP:CG	1:K:387:ASP:OD1	2.52	0.47
1:L:108:THR:OG1	1:L:110:TRP:HD1	1.97	0.47
1:J:569:MET:HE2	1:L:459:PRO:HB3	1.96	0.47
1:K:442:VAL:O	1:L:461:THR:HB	49.80	0.47
1:L:477:ASP:OD1	1:L:478:GLY:N	2.43	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:P:381:TYR:OH	1:Q:74:GLU:OE2	2.32	0.47
1:Q:569:MET:HE2	1:R:459:PRO:HB3	58.41	0.47
1:T:315:GLY:HA3	1:T:417:LEU:O	2.14	0.47
1:V:108:THR:OG1	1:V:110:TRP:HD1	1.97	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
1:1:331:HIS:CE1	1:0:342:HIS:HD2	2.29	0.47
1:2:386:ASP:CG	1:2:387:ASP:OD1	2.52	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:T:569:MET:HE2	1:4:459:PRO:HB3	1.96	0.47
1:J:217:TRP:CG	1:J:239:ARG:HD2	2.50	0.47
1:M:217:TRP:CG	1:M:239:ARG:HD2	2.50	0.47
1:N:461:THR:HB	1:P:442:VAL:O	22.97	0.47
1:O:315:GLY:HA3	1:O:417:LEU:O	2.14	0.47
1:P:217:TRP:CG	1:P:239:ARG:HD2	2.49	0.47
1:P:376:LYS:HG3	1:P:395:TRP:HB2	1.96	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:460:ASP:HA	1:U:464:LYS:HE3	1.95	0.47
1:Z:217:TRP:CG	1:Z:239:ARG:HD2	2.50	0.47
1:1:108:THR:OG1	1:1:110:TRP:HD1	1.97	0.47
1:1:386:ASP:CG	1:1:387:ASP:OD1	2.52	0.47
1:4:453:ALA:H	1:4:470:HIS:HE1	1.61	0.47
1:Y:342:HIS:HD2	1:7:331:HIS:CE1	180.07	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:C:314:TRP:CZ2	1:C:327:VAL:HG23	2.50	0.47
1:D:404:GLN:HE22	1:D:443:ASP:H	1.63	0.47
1:D:74:GLU:OE2	1:E:381:TYR:OH	2.31	0.47
1:E:376:LYS:HG3	1:E:395:TRP:HB2	1.96	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:217:TRP:CG	1:G:239:ARG:HD2	2.50	0.47
1:H:217:TRP:CG	1:H:239:ARG:HD2	2.50	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:K:404:GLN:HE22	1:K:443:ASP:H	1.63	0.47
1:L:217:TRP:CG	1:L:239:ARG:HD2	2.50	0.47
1:O:314:TRP:CZ2	1:O:327:VAL:HG23	2.50	0.47
1:O:404:GLN:HE22	1:O:443:ASP:H	1.63	0.47
1:O:74:GLU:OE2	1:4:381:TYR:OH	2.32	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
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:314:TRP:CZ2	1:T:327:VAL:HG23	2.50	0.47
1:X:217:TRP:CG	1:X:239:ARG:HD2	2.49	0.47
1:Y:380:ASP:OD1	1:Y:381:TYR:N	2.45	0.47
1:X:381:TYR:OH	1:Y:74:GLU:OE2	2.32	0.47
1:Z:74:GLU:OE2	1:1:381:TYR:OH	2.32	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
1:4:376:LYS:HG3	1:4:395:TRP:HB2	1.96	0.47
1:4:39:THR:HB	1:4:147:ASP:HB2	1.97	0.47
1:X:342:HIS:HD2	1:5:331:HIS:CE1	2.29	0.47
1:5:386:ASP:CG	1:5:387:ASP:OD1	2.52	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:A:108:THR:OG1	1:A:110:TRP:HD1	1.97	0.47
1:B:386:ASP:CG	1:B:387:ASP:OD1	2.52	0.47
1:C:217:TRP:CG	1:C:239:ARG:HD2	2.50	0.47
1:E:314:TRP:CZ2	1:E:327:VAL:HG23	2.50	0.47
1:E:386:ASP:CG	1:E:387:ASP:OD1	2.52	0.47
1:I:404:GLN:HE22	1:I:443:ASP:H	1.63	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:J:39:THR:HB	1:J:147:ASP:HB2	1.97	0.47
1:J:376:LYS:HG3	1:J:395:TRP:HB2	1.96	0.47
1:I:569:MET:HE2	1:J:459:PRO:HB3	53.49	0.47
1:K:314:TRP:CZ2	1:K:327:VAL:HG23	2.50	0.47
1:J:381:TYR:OH	1:K:74:GLU:OE2	84.51	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:404:GLN:HE22	1:M:443:ASP:H	1.63	0.47
1:N:404:GLN:HE22	1:N:443:ASP:H	1.63	0.47
1:P:380:ASP:OD1	1:P:381:TYR:N	2.45	0.47
1:R:406:ASN:CG	1:S:342:HIS:HE1	2.17	0.47
1:S:39:THR:HB	1:S:147:ASP:HB2	1.97	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
1:X:314:TRP:CZ2	1:X:327:VAL:HG23	2.50	0.47
1:X:386:ASP:CG	1:X:387:ASP:OD1	2.52	0.47
1:Z:380:ASP:OD1	1:Z:381:TYR:N	2.45	0.47
1:J:381:TYR:OH	1:1:74:GLU:OE2	2.32	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
1:7:460:ASP:HA	1:7:464:LYS:HE3	1.95	0.47
1:7:453:ALA:H	1:7:470:HIS:HE1	1.61	0.47
1:A:279:TYR:HB3	1:A:562:ARG:HG2	1.96	0.47
1:B:315:GLY:HA3	1:B:417:LEU:O	2.14	0.47
1:B:314:TRP:CZ2	1:B:327:VAL:HG23	2.50	0.47
1:I:108:THR:OG1	1:I:110:TRP:HD1	1.97	0.47
1:K:331:HIS:CE1	1:1:342:HIS:HD2	2.29	0.47
1:L:315:GLY:HA3	1:L:417:LEU:O	2.14	0.47
1:L:314:TRP:CZ2	1:L:327:VAL:HG23	2.50	0.47
1:L:39:THR:HB	1:L:147:ASP:HB2	1.97	0.47
1:R:108:THR:OG1	1:R:110:TRP:HD1	1.97	0.47
1:T:406:ASN:CG	1:4:342:HIS:HE1	2.16	0.47
1:T:279:TYR:HB3	1:T:562:ARG:HG2	1.96	0.47
1:T:74:GLU:OE2	1:X:381:TYR:OH	136.67	0.47
1:U:315:GLY:HA3	1:U:417:LEU:O	2.14	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:Y:108:THR:OG1	1:Y:110:TRP:HD1	1.97	0.47
1:Z:108:THR:OG1	1:Z:110:TRP:HD1	1.97	0.47
1:Z:39:THR:HB	1:Z:147:ASP:HB2	1.97	0.47
1:0:404:GLN:HE22	1:0:443:ASP:H	1.63	0.47
1:2:108:THR:HG21	1:2:210:TYR:HD2	1.80	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
1:6:39:THR:HB	1:6:147:ASP:HB2	1.97	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

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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:C:413:HIS:CE1	1:C:428:TRP:HB2	2.50	0.47
1:C:342:HIS:HE1	1:E:406:ASN:CG	117.71	0.47
1:F:314:TRP:CZ2	1:F:327:VAL:HG23	2.50	0.47
1:G:39:THR:HB	1:G:147:ASP:HB2	1.97	0.47
1:G:459:PRO:HB3	1:O:569:MET:HE2	160.33	0.47
1:I:279:TYR:HB3	1:I:562:ARG:HG2	1.96	0.47
1:I:406:ASN:CG	1:J:342:HIS:HE1	60.83	0.47
1:K:217:TRP:CG	1:K:239:ARG:HD2	2.50	0.47
1:N:386:ASP:CG	1:N:387:ASP:OD1	2.52	0.47
1:P:404:GLN:HE22	1:P:443:ASP:H	1.63	0.47
1:R:404:GLN:HE22	1:R:443:ASP:H	1.63	0.47
1:D:381:TYR:OH	1:R:74:GLU:OE2	158.25	0.47
1:U:217:TRP:CG	1:U:239:ARG:HD2	2.50	0.47
1:S:569:MET:HE2	1:U:459:PRO:HB3	1.96	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: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: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:413:HIS:CE1	1:Z:428:TRP:HB2	2.50	0.47
1:Z:287:THR:HG21	1:Z:569:MET:HE3	1.95	0.47
1:O:376:LYS:HG3	1:O:395:TRP:HB2	1.96	0.47
1:1:460:ASP:HA	1:1:464:LYS:HE3	1.95	0.47
1:1:287:THR:HG21	1:1:569:MET:HE3	1.96	0.47
1:2:245:PHE:CZ	1:2:247:PRO:HG3	2.50	0.47
1:3:75:TYR:OH	1:3:249:GLU:OE1	2.27	0.47
1:4:314:TRP:CZ2	1:4:327:VAL:HG23	2.50	0.47
1:5:413:HIS:CE1	1:5:428:TRP:HB2	2.50	0.47
1:6:245:PHE:CZ	1:6:247:PRO:HG3	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
1:7:404:GLN:HE22	1:7:443:ASP:H	1.63	0.47
1:A:315:GLY:HA3	1:A:417:LEU:O	2.14	0.47
1:A:39:THR:HB	1:A:147:ASP:HB2	1.97	0.47
1:B:268:TYR:CD2	1:B:480:PRO:HB3	2.50	0.47
1:B:39:THR:HB	1:B:147:ASP:HB2	1.97	0.47
1:D:314:TRP:CZ2	1:D:327:VAL:HG23	2.50	0.47
1:E:108:THR:HG21	1:E:210:TYR:HD2	1.80	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:217:TRP:CG	1:E:239:ARG:HD2	2.50	0.47
1:E:39:THR:HB	1:E:147:ASP:HB2	1.97	0.47
1:H:108:THR:OG1	1:H:110:TRP:HD1	1.97	0.47
1:H:329:ASN:OD1	1:O:470:HIS:HB3	180.99	0.47
1:H:331:HIS:CE1	1:O:342:HIS:HD2	201.67	0.47
1:H:404:GLN:HE22	1:H:443:ASP:H	1.63	0.47
1:I:268:TYR:CD2	1:I:480:PRO:HB3	2.50	0.47
1:I:413:HIS:CE1	1:I:428:TRP:HB2	2.50	0.47
1:J:245:PHE:CZ	1:J:247:PRO:HG3	2.50	0.47
1:K:108:THR:OG1	1:K:110:TRP:HD1	1.97	0.47
1:K:245:PHE:CZ	1:K:247:PRO:HG3	2.50	0.47
1:K:413:HIS:CE1	1:K:428:TRP:HB2	2.50	0.47
1:K:470:HIS:HB3	1:M:329:ASN:OD1	105.45	0.47
1:K:268:TYR:CD2	1:K:480:PRO:HB3	2.50	0.47
1:K:569:MET:HE2	1:L:459:PRO:HB3	53.48	0.47
1:N:39:THR:HB	1:N:147:ASP:HB2	1.97	0.47
1:M:381:TYR:OH	1:N:74:GLU:OE2	2.32	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:N:342:HIS:HE1	1:P:406:ASN:CG	23.41	0.47
1:E:289:SER:HA	1:Q:188:VAL:CG2	2.44	0.47
1:Q:314:TRP:CZ2	1:Q:327:VAL:HG23	2.50	0.47
1:S:413:HIS:CE1	1:S:428:TRP:HB2	2.50	0.47
1:T:108:THR:OG1	1:T:110:TRP:HD1	1.97	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:T:413:HIS:CE1	1:T:428:TRP:HB2	2.50	0.47
1:U:108:THR:HG21	1:U:210:TYR:HD2	1.80	0.47
1:U:376:LYS:HG3	1:U:395:TRP:HB2	1.96	0.47
1:U:39:THR:HB	1:U:147:ASP:HB2	1.97	0.47
1:U:413:HIS:CE1	1:U:428:TRP:HB2	2.50	0.47
1:U:404:GLN:HE22	1:U:443:ASP:H	1.63	0.47
1:V:404:GLN:HE22	1:V:443:ASP:H	1.63	0.47
1:V:413:HIS:CE1	1:V:428:TRP:HB2	2.50	0.47
1:X:287:THR:HG21	1:X:569:MET:HE3	1.96	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:O:93:GLN:HB2	1:O:229:ASN:O	2.15	0.47
1:2:404:GLN:HE22	1:2:443:ASP:H	1.63	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:S:381:TYR:OH	1:4:74:GLU:OE2	2.32	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: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: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:F:188:VAL:CG2	1:Q:289:SER:HA	2.45	0.47
1:I:245:PHE:CZ	1:I:247:PRO:HG3	2.50	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: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:K:342:HIS:HD2	1:M:331:HIS:CE1	128.92	0.47
1:M:413:HIS:CE1	1:M:428:TRP:HB2	2.50	0.47
1:P:108:THR:HG21	1:P:210:TYR:HD2	1.80	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:Q:329:ASN:OD1	1:R:470:HIS:HB3	55.62	0.47
1:S:268:TYR:CD2	1:S:480:PRO:HB3	2.50	0.47
1:S:404:GLN:HE22	1:S:443:ASP:H	1.63	0.47
1:W:245:PHE:CZ	1:W:247:PRO:HG3	2.50	0.47
1:W:386:ASP:CG	1:W:387:ASP:OD1	2.52	0.47
1:O:413:HIS:CE1	1:O:428:TRP:HB2	2.50	0.47
1:3:93:GLN:HB2	1:3:229:ASN:O	2.15	0.47
1:4:386:ASP:CG	1:4:387:ASP:OD1	2.52	0.47
1:6:268:TYR:CD2	1:6:480:PRO:HB3	2.50	0.47
1:A:314:TRP:CZ2	1:A:327:VAL:HG23	2.50	0.47
1:A:404:GLN:HE22	1:A:443:ASP:H	1.63	0.47
1:B:470:HIS:HB3	1:6:329:ASN:OD1	200.24	0.47
1:C:406:ASN:CG	1:2:342:HIS:HE1	2.16	0.47
1:C:470:HIS:HB3	1:M:329:ASN:OD1	2.15	0.47
1:D:329:ASN:OD1	1:E:470:HIS:HB3	80.88	0.47
1:E:413:HIS:CE1	1:E:428:TRP:HB2	2.50	0.47
1:E:93:GLN:HB2	1:E:229:ASN:O	2.15	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:393:GLN:NE2	1:Q:318:SER:HB2	2.30	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:200:ILE:HD11	1:H:203:ARG:CG	2.38	0.47
1:H:39:THR:HB	1:H:147:ASP:HB2	1.97	0.47
1:H:93:GLN:HB2	1:H:229:ASN:O	2.15	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
1:J:268:TYR:CD2	1:J:480:PRO:HB3	2.50	0.47
1:J:74:GLU:OE2	1:Z:381:TYR:OH	63.35	0.47
1:M:93:GLN:HB2	1:M:229:ASN:O	2.15	0.47
1:M:242:ASP:OD2	1:2:279:TYR:OH	2.30	0.47
1:M:268:TYR:CD2	1:M:480:PRO:HB3	2.50	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:D:329:ASN:OD1	1:N:470:HIS:HB3	2.15	0.47
1:O:74:GLU:OE2	1:Y:381:TYR:OH	203.51	0.47
1:R:268:TYR:CD2	1:R:480:PRO:HB3	2.50	0.47
1:F:279:TYR:OH	1:T:242:ASP:OD2	164.30	0.47
1:T:39:THR:HB	1:T:147:ASP:HB2	1.97	0.47
1:V:268:TYR:CD2	1:V:480:PRO:HB3	2.50	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:H:569:MET:HE1	1:W:459:PRO:HB3	1.96	0.47
1:X:39:THR:HB	1:X:147:ASP:HB2	1.97	0.47
1:Y:314:TRP:CZ2	1:Y:327:VAL:HG23	2.50	0.47
1:Y:93:GLN:HB2	1:Y:229:ASN:O	2.15	0.47
1:X:459:PRO:HB3	1:Z:569:MET:HE2	94.41	0.47
1:O:108:THR:HG21	1:O:210:TYR:HD2	1.80	0.47
1:1:93:GLN:HB2	1:1:229:ASN:O	2.15	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:Y:470:HIS:HB3	1:7:329:ASN:OD1	157.68	0.47
1:7:93:GLN:HB2	1:7:229:ASN:O	2.15	0.47
1:B:404:GLN:HE22	1:B:443:ASP:H	1.63	0.47
1:B:93:GLN:HB2	1:B:229:ASN:O	2.15	0.47
1:C:404:GLN:HE22	1:C:443:ASP:H	1.63	0.47
1:D:93:GLN:HB2	1:D:229:ASN:O	2.15	0.47
1:E:245:PHE:CZ	1:E:247:PRO:HG3	2.50	0.47
1:C:342:HIS:HD2	1:E:331:HIS:CE1	117.10	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:E:188:VAL:HG23	1:F:288:GLY:O	2.15	0.47
1:G:245:PHE:CZ	1:G: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	55.59	0.47
1:G:268:TYR:CD2	1:G:480:PRO:HB3	2.50	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:H:268:TYR:CD2	1:H:480:PRO:HB3	2.50	0.47
1:A:465:PRO:HG3	1:I:441:ALA:HB2	1.97	0.47
1:L:413:HIS:CE1	1:L:428:TRP:HB2	2.50	0.47
1:J:329:ASN:OD1	1:L:470:HIS:HB3	2.15	0.47
1:N:470:HIS:HB3	1:P:329:ASN:OD1	34.23	0.47
1:N:268:TYR:CD2	1:N:480:PRO:HB3	2.50	0.47
1:O:316:ASP:O	1:O:418:SER:HA	2.15	0.47
1:P:245:PHE:CZ	1:P:247:PRO:HG3	2.50	0.47
1:P:268:TYR:CD2	1:P:480:PRO:HB3	2.50	0.47
1:P:93:GLN:HB2	1:P:229:ASN:O	2.15	0.47
1:E:435:THR:O	1:Q:336:TRP:CH2	2.68	0.47
1:R:108:THR:HG21	1:R:210:TYR:HD2	1.80	0.47
1:R:93:GLN:HB2	1:R:229:ASN:O	2.15	0.47
1:R:316:ASP:O	1:R:418:SER:HA	2.15	0.47
1:S:314:TRP:CZ2	1:S:327:VAL:HG23	2.50	0.47
1:S:329:ASN:OD1	1:U:470:HIS:HB3	2.15	0.47
1:U:93:GLN:HB2	1:U:229:ASN:O	2.15	0.47
1:R:470:HIS:HB3	1:U:329:ASN:OD1	2.15	0.47
1:V:39:THR:HB	1:V:147:ASP:HB2	1.97	0.47
1:V:108:THR:HG21	1:V:210:TYR:HD2	1.80	0.47
1:V:93:GLN:HB2	1:V:229:ASN:O	2.15	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:I:108:THR:HG21	1:I:210:TYR:HD2	1.80	0.46
1:I:413:HIS:CE1	1:I:428:TRP:HB2	2.50	0.46
1:2:122:MET:O	1:2:449:TYR:OH	2.31	0.46
1:F:470:HIS:HB3	1:4:329:ASN:OD1	143.19	0.46
1:5:245:PHE:CZ	1:5:247:PRO:HG3	2.50	0.46
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:A:268:TYR:CD2	1:A:480:PRO:HB3	2.50	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:B:316:ASP:O	1:B:418:SER:HA	2.15	0.46
1:D:200:ILE:HD11	1:D:203:ARG:CG	2.38	0.46
1:D:39:THR:HB	1:D:147:ASP:HB2	1.97	0.46
1:F:316:ASP:O	1:F:418:SER:HA	2.15	0.46
1:F:459:PRO:HB3	1:Q:569:MET:HE1	1.97	0.46
1:H:316:ASP:O	1:H:418:SER:HA	2.15	0.46
1:L:329:ASN:OD1	1:M:470:HIS:HB3	87.17	0.46
1:L:404:GLN:HE22	1:L:443:ASP:H	1.63	0.46
1:L:93:GLN:HB2	1:L:229:ASN:O	2.15	0.46
1:M:316:ASP:O	1:M:418:SER:HA	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:Q:93:GLN:HB2	1:Q:229:ASN:O	2.15	0.46
1:F:470:HIS:HB3	1:Q:329:ASN:OD1	2.15	0.46
1:F:342:HIS:HD2	1:Q:331:HIS:CE1	2.31	0.46
1:R:39:THR:HB	1:R:147:ASP:HB2	1.97	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: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:S:316:ASP:O	1:S:418:SER:HA	2.15	0.46
1:T:108:THR:HG21	1:T:210:TYR:HD2	1.80	0.46
1:W:108:THR:OG1	1:W:110:TRP:HD1	1.97	0.46
1:W:217:TRP:CG	1:W:239:ARG:HD2	2.50	0.46
1:W:93:GLN:HB2	1:W:229:ASN:O	2.15	0.46
1:X:245:PHE:CZ	1:X:247:PRO:HG3	2.50	0.46
1:X:404:GLN:HE22	1:X:443:ASP:H	1.63	0.46
1:X:413:HIS:CE1	1:X:428:TRP:HB2	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:314:TRP:CZ2	1:Z:327:VAL:HG23	2.50	0.46
1:Z:329:ASN:OD1	1:7:470:HIS:HB3	131.87	0.46
1:Z:404:GLN:HE22	1:Z:443:ASP:H	1.63	0.46
1:O:217:TRP:CG	1:O:239:ARG:HD2	2.50	0.46
1:M:470:HIS:HB3	1:2:329:ASN:OD1	2.15	0.46
1:2:468:SER:OG	1:2:471:ALA:O	2.22	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:3:314:TRP:CZ2	1:3:327:VAL:HG23	2.50	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	74.68	0.46
1:B:470:HIS:HB3	1:L:329:ASN:OD1	2.15	0.46
1:C:279:TYR:OH	1:D:242:ASP:OD2	100.50	0.46
1:E:268:TYR:CD2	1:E:480:PRO:HB3	2.50	0.46
1:F:413:HIS:CE1	1:F:428:TRP:HB2	2.50	0.46
1:G:404:GLN:HE22	1:G:443:ASP:H	1.63	0.46
1:H:386:ASP:OD1	1:H:387:ASP:OD1	2.34	0.46
1:G:441:ALA:HB2	1:H:465:PRO:HG3	62.13	0.46
1:J:329:ASN:OD1	1:3:470:HIS:HB3	104.58	0.46
1:K:93:GLN:HB2	1:K:229:ASN:O	2.15	0.46
1:L:441:ALA:HB2	1:M:465:PRO:HG3	75.39	0.46
1:M:386:ASP:OD1	1:M: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: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:N:329:ASN:OD1	1:O:470:HIS:HB3	55.59	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	80.89	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:268:TYR:CD2	1:W:480:PRO:HB3	2.50	0.46
1:Y:406:ASN:CG	1:Z:342:HIS:HE1	74.11	0.46
1:Y:404:GLN:HE22	1:Y:443:ASP:H	1.63	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
1:0:245:PHE:CZ	1:0:247:PRO:HG3	2.50	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:C:329:ASN:OD1	1:D:470:HIS:HB3	80.88	0.46
1:D:268:TYR:CD2	1:D:480:PRO:HB3	2.50	0.46
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:314:TRP:CZ2	1:H:327:VAL:HG23	2.50	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:335:SER:N	1:H:406:ASN:HD22	2.14	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:L:316:ASP:O	1:L:418:SER:HA	2.15	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:O:93:GLN:HB2	1:O:229:ASN:O	2.15	0.46
1:Q:268:TYR:CD2	1:Q:480:PRO:HB3	2.50	0.46
1:T:217:TRP:CG	1:T:239:ARG:HD2	2.50	0.46
1:W:335:SER:N	1:W:406:ASN:HD22	2.14	0.46
1:W:406:ASN:CG	1:Y:342:HIS:HE1	2.16	0.46
1:W:406:ASN:CG	1:Z:342:HIS:HE1	89.62	0.46
1:X:316:ASP:O	1:X:418:SER:HA	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:Y:569:MET:HE1	1:Z:459:PRO:HB3	59.57	0.46
1:1:386:ASP:OD1	1:1:387:ASP:OD1	2.34	0.46
1:1:316:ASP:O	1:1:418:SER:HA	2.15	0.46
1:K:329:ASN:OD1	1:1:470:HIS:HB3	2.15	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
1:6:335:SER:N	1:6:406:ASN:HD22	2.14	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:C:39:THR:HB	1:C:147:ASP:HB2	1.97	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:F:268:TYR:CD2	1:F:480:PRO:HB3	2.50	0.46
1:I:217:TRP:CG	1:I:239:ARG:HD2	2.49	0.46
1:I:316:ASP:O	1:I:418:SER:HA	2.15	0.46
1:K:316:ASP:O	1:K:418:SER:HA	2.15	0.46
1:L:386:ASP:OD1	1:L:387:ASP:OD1	2.34	0.46
1:N:386:ASP:OD1	1:N:387:ASP:OD1	2.34	0.46
1:D:470:HIS:HB3	1:P:329:ASN:OD1	2.15	0.46
1:Q:108:THR:HG21	1:Q:210:TYR:HD2	1.80	0.46
1:Q:413:HIS:CE1	1:Q:428:TRP:HB2	2.50	0.46
1:Q:316:ASP:O	1:Q:418:SER:HA	2.15	0.46
1:R:386:ASP:OD1	1:R:387:ASP:OD1	2.34	0.46
1:R:459:PRO:HB3	1:U:569:MET:HE1	1.96	0.46
1:U:386:ASP:OD1	1:U:387:ASP:OD1	2.34	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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: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:X:342:HIS:HD2	1:Z:331:HIS:CE1	111.13	0.46
1:X:465:PRO:HG3	1:Z:441:ALA:HB2	102.44	0.46
1:0:268:TYR:CD2	1:0:480:PRO:HB3	2.50	0.46
1:0:39:THR:HB	1:0:147:ASP:HB2	1.97	0.46
1:1:329:ASN:OD1	1:0:470:HIS:HB3	2.15	0.46
1:0:287:THR:HG21	1:0:569:MET:HE3	1.98	0.46
1:2:268:TYR:CD2	1:2:480:PRO:HB3	2.50	0.46
1:3:335:SER:N	1:3:406:ASN:HD22	2.14	0.46
1:3:316:ASP:O	1:3:418:SER:HA	2.15	0.46
1:3:268:TYR:CD2	1:3:480:PRO:HB3	2.50	0.46
1:7:413:HIS:CE1	1:7:428:TRP:HB2	2.50	0.46
1:7:316:ASP:O	1:7:418:SER:HA	2.15	0.46
1:A:287:THR:HG21	1:A:569:MET:HE3	2.01	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:93:GLN:HB2	1:C:229:ASN:O	2.15	0.46
1:C:268:TYR:CD2	1:C:480:PRO:HB3	2.50	0.46
1:C:335:SER:N	1:C:406:ASN:HD22	2.14	0.46
1:C:470:HIS:HB3	1:E:329:ASN:OD1	117.76	0.46
1:D:386:ASP:OD1	1:D:387:ASP:OD1	2.34	0.46
1:F:39:THR:HB	1:F:147:ASP:HB2	1.97	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:335:SER:N	1:N:406:ASN:HD22	2.14	0.46
1:N:279:TYR:OH	1:O:242:ASP:OD2	62.85	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:N:329:ASN:OD1	1:P:470:HIS:HB3	2.15	0.46
1:Q:386:ASP:OD1	1:Q:387:ASP:OD1	2.34	0.46
1:R:329:ASN:OD1	1:S:470:HIS:HB3	2.15	0.46
1:Q:465:PRO:HG3	1:S:441:ALA:HB2	81.17	0.46
1:S:441:ALA:HB2	1:U:465:PRO:HG3	1.98	0.46
1:S:93:GLN:HB2	1:S:229:ASN:O	2.15	0.46
1:T:316:ASP:O	1:T:418:SER:HA	2.15	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:W:316:ASP:O	1:W:418:SER:HA	2.15	0.46
1:V:470:HIS:HB3	1:X:329:ASN:OD1	2.15	0.46
1:Y:386:ASP:OD1	1:Y:387:ASP:OD1	2.34	0.46
1:W:329:ASN:OD1	1:Z:470:HIS:HB3	55.78	0.46
1:Z:93:GLN:HB2	1:Z:229:ASN:O	2.15	0.46
1:1:569:MET:HE2	1:0:459:PRO:HB3	1.97	0.46
1:6:468:SER:OG	1:6:471:ALA:O	2.22	0.46
1:7:245:PHE:CZ	1:7:247:PRO:HG3	2.50	0.46
1:A:245:PHE:CZ	1:A:247:PRO:HG3	2.50	0.46
1:E:335:SER:N	1:E:406:ASN:HD22	2.14	0.46
1:H:413:HIS:CE1	1:H:428:TRP:HB2	2.50	0.46
1:I:386:ASP:OD1	1:I:387:ASP:OD1	2.34	0.46
1:J:287:THR:HG21	1:J:569:MET:HE3	1.95	0.46
1:K:108:THR:HG21	1:K:210:TYR:HD2	1.80	0.46
1:M:108:THR:HG21	1:M:210:TYR:HD2	1.80	0.46
1:D:569:MET:HE2	1:N:459:PRO:HB3	1.97	0.46
1:O:108:THR:HG21	1:O:210:TYR:HD2	1.80	0.46
1:D:465:PRO:HG3	1:P:441:ALA:HB2	1.98	0.46
1:Q:245:PHE:CZ	1:Q:247:PRO:HG3	2.50	0.46
1:Q:335:SER:N	1:Q:406:ASN:HD22	2.14	0.46
1:T:329:ASN:OD1	1:U:470:HIS:HB3	74.68	0.46
1:T:386:ASP:OD1	1:T:387:ASP:OD1	2.34	0.46
1:W:380:ASP:OD1	1:W:381:TYR:N	2.45	0.46
1:W:404:GLN:HE22	1:W:443:ASP:H	1.63	0.46
1:W:441:ALA:HB2	1:Z:465:PRO:HG3	72.88	0.46
1:V:459:PRO:HB3	1:X:569:MET:HE2	1.97	0.46
1:W:329:ASN:OD1	1:Y:470:HIS:HB3	2.15	0.46
1:0:314:TRP:CZ2	1:0:327:VAL:HG23	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:U:381:TYR:OH	1:5:74:GLU:OE2	2.32	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
1:A:335:SER:N	1:A:406:ASN:HD22	2.14	0.46
1:A:93:GLN:HB2	1:A:229:ASN:O	2.15	0.46
1:C:329:ASN:OD1	1:2:470:HIS:HB3	2.15	0.46
1:D:387:ASP:HA	1:D:388:PRO:HD3	1.84	0.46
1:F:461:THR:HB	1:Q:442:VAL:O	2.16	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:188:VAL:HG23	1:O:288:GLY:O	168.18	0.46
1:G:406:ASN:CG	1:I:342:HIS:HE1	2.16	0.46
1:G:470:HIS:HB3	1:O:329:ASN:OD1	176.49	0.46
1:G:331:HIS:CE1	1:H:342:HIS:HD2	69.74	0.46
1:I:335:SER:N	1:I:406:ASN:HD22	2.14	0.46
1:B:329:ASN:OD1	1:J:470:HIS:HB3	2.15	0.46
1:K:335:SER:N	1:K:406:ASN:HD22	2.14	0.46
1:K:39:THR:HB	1:K:147:ASP:HB2	1.97	0.46
1:K:74:GLU:OE2	1:7:381:TYR:OH	2.32	0.46
1:L:108:THR:HG21	1:L:210:TYR:HD2	1.80	0.46
1:K:288:GLY:O	1:L:188:VAL:HG23	58.54	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:O:329:ASN:OD1	1:P:470:HIS:HB3	74.68	0.46
1:F:465:PRO:HG3	1:Q:441:ALA:HB2	1.98	0.46
1:T:335:SER:N	1:T:406:ASN:HD22	2.14	0.46
1:T:342:HIS:HE1	1:V:406:ASN:CG	118.99	0.46
1:W:441:ALA:HB2	1:Y:465:PRO:HG3	1.98	0.46
1:X:268:TYR:CD2	1:X:480:PRO:HB3	2.50	0.46
1:Z:441:ALA:HB2	1:7:465:PRO:HG3	132.12	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
1:7:268:TYR:CD2	1:7:480:PRO:HB3	2.50	0.46
1:A:329:ASN:OD1	1:6:470:HIS:HB3	149.81	0.46
1:B:380:ASP:OD1	1:B:381:TYR:N	2.45	0.46
1:B:74:GLU:OE2	1:5:381:TYR:OH	208.92	0.46
1:B:74:GLU:OE2	1:C:381:TYR:OH	2.32	0.46
1:D:528:GLN:NE2	1:D:530:ASN:O	2.49	0.46
1:F:82:ARG:NH1	1:F:236:LYS:HD3	2.31	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:L:331:HIS:CE1	1:M:342:HIS:HD2	85.86	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:O:39:THR:HB	1:O:147:ASP:HB2	1.97	0.46
1:O:441:ALA:HB2	1:P:465:PRO:HG3	59.45	0.46
1:P:396:GLN:OE1	1:P:448:GLN:NE2	2.49	0.46
1:T:288:GLY:O	1:U:188:VAL:HG23	58.54	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
1:2:39:THR:HB	1:2:147:ASP:HB2	1.97	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:3:108:THR:HG21	1:3:210:TYR:HD2	1.80	0.46
1:M:381:TYR:OH	1:3:74:GLU:OE2	62.39	0.46
1:T:288:GLY:O	1:4:188:VAL:HG23	2.16	0.46
1:4:396:GLN:OE1	1:4:448:GLN:NE2	2.49	0.46
1:T:329:ASN:OD1	1:4:470:HIS:HB3	2.15	0.46
1:5:396:GLN:OE1	1:5:448:GLN:NE2	2.49	0.46
1:5:39:THR:HB	1:5:147:ASP:HB2	1.97	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:B:396:GLN:OE1	1:B:448:GLN:NE2	2.49	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:I:396:GLN:OE1	1:I:448:GLN:NE2	2.49	0.46
1:I:470:HIS:HB3	1:3:329:ASN:OD1	157.68	0.46
1:I:288:GLY:O	1:J:188:VAL:HG23	58.54	0.46
1:J:396:GLN:OE1	1:J:448:GLN:NE2	2.49	0.46
1:I:329:ASN:OD1	1:J:470:HIS:HB3	74.68	0.46
1:I:381:TYR:OH	1:J:74:GLU:OE2	2.32	0.46
1:J:93:GLN:HB2	1:J:229:ASN:O	2.15	0.46
1:K:329:ASN:OD1	1:L:470:HIS:HB3	74.68	0.46
1:M:387:ASP:HA	1:M:388:PRO:HD3	1.84	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	20.28	0.46
1:Q:396:GLN:OE1	1:Q:448:GLN:NE2	2.49	0.46
1:Q:528:GLN:NE2	1:Q:530:ASN:O	2.49	0.46
1:R:396:GLN:OE1	1:R:448:GLN:NE2	2.49	0.46
1:R:82:ARG:NH1	1:R:236:LYS:HD3	2.31	0.46
1:S:82:ARG:NH1	1:S:236:LYS:HD3	2.31	0.46
1:T:93:GLN:HB2	1:T:229:ASN:O	2.15	0.46
1:T:396:GLN:OE1	1:T:448:GLN:NE2	2.49	0.46
1:V:288:GLY:O	1:5:188:VAL:HG23	2.16	0.46
1:V:316:ASP:O	1:V:418:SER:HA	2.16	0.46
1:H:288:GLY:O	1:W:188:VAL:HG23	2.16	0.46
1:W:413:HIS:CE1	1:W:428:TRP:HB2	2.50	0.46
1:W:188:VAL:HG23	1:X:288:GLY:O	50.32	0.46
1:X:74:GLU:OE2	1:Y:381:TYR:OH	62.39	0.46
1:Y:396:GLN:OE1	1:Y:448:GLN:NE2	2.49	0.46
1:Y:82:ARG:NH1	1:Y:236:LYS:HD3	2.31	0.46
1:K:188:VAL:HG23	1:0:288:GLY:O	2.16	0.46
1:0:396:GLN:OE1	1:0:448:GLN:NE2	2.49	0.46
1:1:268:TYR:CD2	1:1:480:PRO:HB3	2.50	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
1:6:200:ILE:HD11	1:6:203:ARG:CG	2.38	0.46
1:T:381:TYR:OH	1:6:74:GLU:OE2	139.89	0.46
1:7:335:SER:N	1:7:406:ASN:HD22	2.14	0.46
1:A:74:GLU:OE2	1:E:381:TYR:OH	62.36	0.46
1:B:82:ARG:NH1	1:B:236:LYS:HD3	2.31	0.46
1:D:396:GLN:OE1	1:D:448:GLN:NE2	2.49	0.46
1:D:335:SER:N	1:D:406:ASN:HD22	2.14	0.46
1:E:239:ARG:HH21	1:E:239:ARG:HB3	1.81	0.46
1:E:470:HIS:HB3	1:F:329:ASN:OD1	2.16	0.46
1:F:108:THR:HG21	1:F:210:TYR:HD2	1.80	0.46
1:G:316:ASP:O	1:G:418:SER:HA	2.15	0.46
1:G:387:ASP:HA	1:G:388:PRO:HD3	1.84	0.46
1:G:335:SER:N	1:G:406:ASN:HD22	2.14	0.46
1:G:82:ARG:NH1	1:G:236:LYS:HD3	2.31	0.46
1:H:288:GLY:O	1:O:188:VAL:HG23	175.94	0.46
1:H:74:GLU:OE2	1:Z:381:TYR:OH	2.33	0.46
1:I:82:ARG:NH1	1:I:236:LYS:HD3	2.31	0.46
1:I:93:GLN:HB2	1:I:229:ASN:O	2.15	0.46
1:J:82:ARG:NH1	1:J:236:LYS:HD3	2.31	0.46
1:K:396:GLN:OE1	1:K:448:GLN:NE2	2.49	0.46
1:K:470:HIS:HB3	1:O: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:288:GLY:O	1:P:188:VAL:HG23	58.54	0.46
1:P:239:ARG:HH21	1:P:239:ARG:HB3	1.81	0.46
1:P:335:SER:N	1:P:406:ASN:HD22	2.14	0.46
1:S:335:SER:N	1:S:406:ASN:HD22	2.14	0.46
1:T:465:PRO:HG3	1:V:441:ALA:HB2	102.45	0.46
1:R:465:PRO:HG3	1:U:441:ALA:HB2	1.98	0.46
1:V:188:VAL:HG23	1:X:288:GLY:O	2.16	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	50.32	0.46
1:Z:82:ARG:NH1	1:Z:236:LYS:HD3	2.31	0.46
1:1:288:GLY:O	1:O:188:VAL:HG23	2.16	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:288:GLY:O	1:2:188:VAL:HG23	2.16	0.45
1:2:239:ARG:HH21	1:2:239:ARG:HB3	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:X:465:PRO:HG3	1:5:441:ALA:HB2	1.98	0.45
1:V:329:ASN:OD1	1:5:470:HIS:HB3	2.15	0.45
1:7:82:ARG:NH1	1:7:236:LYS:HD3	2.31	0.45
1:Y:465:PRO:HG3	1:7:441:ALA:HB2	162.74	0.45
1:D:316:ASP:O	1:D:418:SER:HA	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:C:188:VAL:HG23	1:E:288:GLY:O	103.14	0.45
1:F:329:ASN:OD1	1:T:470:HIS:HB3	131.89	0.45
1:F:396:GLN:OE1	1:F:448:GLN:NE2	2.49	0.45
1:E:465:PRO:HG3	1:F:441:ALA:HB2	1.98	0.45
1:F:74:GLU:OE2	1:H:381:TYR:OH	113.99	0.45
1:G:528:GLN:NE2	1:G:530:ASN:O	2.49	0.45
1:G:441:ALA:HB2	1:I:465:PRO:HG3	1.98	0.45
1:K:386:ASP:OD1	1:K:387:ASP:OD1	2.34	0.45
1:K:441:ALA:HB2	1:I:465:PRO:HG3	1.98	0.45
1:L:528:GLN:NE2	1:L:530:ASN:O	2.49	0.45
1:K:381:TYR:OH	1:L:74:GLU:OE2	2.32	0.45
1:L:288:GLY:O	1:M:188:VAL:HG23	88.86	0.45
1:K:188:VAL:HG23	1:M:288:GLY:O	115.89	0.45
1:N:200:ILE:HD11	1:N:203:ARG:CG	2.38	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	62.13	0.45
1:O:396:GLN:OE1	1:O:448:GLN:NE2	2.49	0.45
1:N:188:VAL:HG23	1:P:288:GLY:O	46.22	0.45
1:P:386:ASP:OD1	1:P:387:ASP:OD1	2.34	0.45
1:Q:82:ARG:NH1	1:Q:236:LYS:HD3	2.31	0.45
1:R:239:ARG:HH21	1:R:239:ARG:HB3	1.81	0.45
1:R:441:ALA:HB2	1:S:465:PRO:HG3	1.98	0.45
1:R:288:GLY:O	1:S:188:VAL:HG23	2.16	0.45
1:S:396:GLN:OE1	1:S:448:GLN:NE2	2.49	0.45
1:T:441:ALA:HB2	1:U:465:PRO:HG3	59.45	0.45
1:T:82:ARG:NH1	1:T:236:LYS:HD3	2.31	0.45
1:U:82:ARG:NH1	1:U:236:LYS:HD3	2.31	0.45
1:U:288:GLY:O	1:V:188:VAL:HG23	50.32	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:W:279:TYR:OH	1:Y:242:ASP:OD2	2.30	0.45
1:O:316:ASP:O	1:O:418:SER:HA	2.15	0.45
1:5:357:SER:HB2	1:5:398:ASN:O	2.17	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:C:239:ARG:HB3	1:C:239:ARG:HH21	1.81	0.45
1:C:316:ASP:O	1:C:418:SER:HA	2.16	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	81.17	0.45
1:D:288:GLY:O	1:E:188:VAL:HG23	92.23	0.45
1:E:75:TYR:OH	1:E:249:GLU:OE1	2.27	0.45
1:G:396:GLN:OE1	1:G:448:GLN:NE2	2.49	0.45
1:G:288:GLY:O	1:H:188:VAL:HG23	50.32	0.45
1:H:459:PRO:HB3	1:Y:569:MET:HE2	1.97	0.45
1:K:357:SER:HB2	1:K:398:ASN:O	2.17	0.45
1:B:188:VAL:HG23	1:L:288:GLY:O	2.16	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:N:82:ARG:NH1	1:N:236:LYS:HD3	2.31	0.45
1:Q:357:SER:HB2	1:Q:398:ASN:O	2.17	0.45
1:T:239:ARG:HH21	1:T:239:ARG:HB3	1.82	0.45
1:U:396:GLN:OE1	1:U:448:GLN:NE2	2.49	0.45
1:A:381:TYR:OH	1:U:74:GLU:OE2	161.61	0.45
1:W:386:ASP:OD1	1:W:387:ASP:OD1	2.34	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:Y:441:ALA:HB2	1:Z:465:PRO:HG3	62.13	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:J:288:GLY:O	1:3:188:VAL:HG23	117.78	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:F:188:VAL:HG23	1:4:288:GLY:O	141.50	0.45
1:F:342:HIS:HE1	1:4:406:ASN:CG	133.33	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
1:7:39:THR:HB	1:7:147:ASP:HB2	1.97	0.45
1:A:188:VAL:HG23	1:B:288:GLY:O	58.55	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:H:82:ARG:NH1	1:H:236:LYS:HD3	2.31	0.45
1:I:239:ARG:HB3	1:I:239:ARG:HH21	1.81	0.45
1:J:406:ASN:CG	1:3:342:HIS:HE1	138.85	0.45
1:L:387:ASP:HA	1:L:388:PRO:HD3	1.84	0.45
1:C:188:VAL:HG23	1:M:288:GLY:O	2.16	0.45
1:M:465:PRO:HG3	1:2:441:ALA:HB2	1.98	0.45
1:O:82:ARG:NH1	1:O:236:LYS:HD3	2.31	0.45
1:P:82:ARG:NH1	1:P:236:LYS:HD3	2.31	0.45
1:Q:387:ASP:HA	1:Q:388:PRO:HD3	1.84	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:H:329:ASN:OD1	1:W:470:HIS:HB3	2.15	0.45
1:X:396:GLN:OE1	1:X:448:GLN:NE2	2.49	0.45
1:X:82:ARG:NH1	1:X:236:LYS:HD3	2.31	0.45
1:Y:239:ARG:HH21	1:Y:239:ARG:HB3	1.82	0.45
1:Y:335:SER:N	1:Y:406:ASN:HD22	2.14	0.45
1:Z:239:ARG:HH21	1:Z:239:ARG:HB3	1.82	0.45
1:0:82:ARG:NH1	1:0:236:LYS:HD3	2.31	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	81.17	0.45
1:F:239:ARG:HH21	1:F:239:ARG:HB3	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
1:H:239:ARG:HH21	1:H:239:ARG:HB3	1.82	0.45
1:H:396:GLN:OE1	1:H:448:GLN:NE2	2.49	0.45
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:R:357:SER:HB2	1:R:398:ASN:O	2.17	0.45
1:S:357:SER:HB2	1:S:398:ASN:O	2.17	0.45
1:F:288:GLY:O	1:T:188:VAL:HG23	150.65	0.45
1:W:288:GLY:O	1:Z:188:VAL:HG23	76.17	0.45
1:W:470:HIS:HB3	1:X:329:ASN:OD1	55.59	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:W:547:LEU:HD21	1:X:530:ASN:HD22	1.82	0.45
1:W:288:GLY:O	1:Y:188:VAL:HG23	2.16	0.45
1:Y:329:ASN:OD1	1:Z:470:HIS:HB3	55.59	0.45
1:X:188:VAL:HG23	1:Z:288:GLY:O	81.14	0.45
1:0:200:ILE:HD11	1:0:203:ARG:CG	2.38	0.45
1:1:396:GLN:OE1	1:1:448:GLN:NE2	2.49	0.45
1:2:357:SER:HB2	1:2:398:ASN:O	2.17	0.45
1:6:386:ASP:OD1	1:6:387:ASP:OD1	2.34	0.45
1:7:357:SER:HB2	1:7:398:ASN:O	2.17	0.45
1:B:357:SER:HB2	1:B:398:ASN:O	2.17	0.45
1:D:239:ARG:HB3	1:D:239:ARG:HH21	1.82	0.45
1:F:357:SER:HB2	1:F:398:ASN:O	2.17	0.45
1:C:530:ASN:HD22	1:F:547:LEU:HD21	130.72	0.45
1:G:319:ASP:N	1:G:320:PRO:CD	2.80	0.45
1:G:569:MET:HE2	1:H:459:PRO:HB3	58.38	0.45
1:I:188:VAL:HG23	1:3:288:GLY:O	159.30	0.45
1:I:380:ASP:OD1	1:I:381:TYR:N	2.45	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:I:441:ALA:HB2	1:J:465:PRO:HG3	59.44	0.45
1:J:547:LEU:HD21	1:M:530:ASN:HD22	128.64	0.45
1:K:528:GLN:NE2	1:K:530:ASN:O	2.49	0.45
1:L:357:SER:HB2	1:L:398:ASN:O	2.17	0.45
1:K:441:ALA:HB2	1:L:465:PRO:HG3	59.45	0.45
1:O:239:ARG:HH21	1:O:239:ARG:HB3	1.82	0.45
1:G:465:PRO:HG3	1:O:441:ALA:HB2	163.43	0.45
1:O:528:GLN:NE2	1:O:530:ASN:O	2.49	0.45
1:A:547:LEU:HD21	1:T:530:ASN:HD22	128.08	0.45
1:U:329:ASN:OD1	1:V:470:HIS:HB3	55.59	0.45
1:T:188:VAL:HG23	1:V:288:GLY:O	81.14	0.45
1:W:547:LEU:HD21	1:1:530:ASN:HD22	146.60	0.45
1:H:470:HIS:HB3	1:Y:329:ASN:OD1	2.15	0.45
1:Z:235:LYS:HB2	1:Z:235:LYS:HE2	1.82	0.45
1:0:386:ASP:OD1	1:0:387:ASP:OD1	2.34	0.45
1:M:188:VAL:HG23	1:2:288:GLY:O	2.17	0.45
1:3:239:ARG:HH21	1:3:239:ARG:HB3	1.81	0.45
1:3:357:SER:HB2	1:3:398:ASN:O	2.17	0.45
1:T:441:ALA:HB2	1:4:465:PRO:HG3	1.98	0.45
1:4:528:GLN:NE2	1:4:530:ASN:O	2.49	0.45
1:H:530:ASN:HD22	1:4:547:LEU:HD21	177.47	0.45
1:5:319:ASP:N	1:5:320:PRO:CD	2.80	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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: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:C:319:ASP:N	1:C:320:PRO:CD	2.80	0.45
1:C:386:ASP:OD1	1:C:387:ASP:OD1	2.34	0.45
1:C:288:GLY:O	1:D:188:VAL:HG23	92.23	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:H:188:VAL:HG23	1:Y:288:GLY:O	2.16	0.45
1:B:547:LEU:HD21	1:I:530:ASN:HD22	1.82	0.45
1:J:547:LEU:HD21	1:K:530:ASN:HD22	1.82	0.45
1:L:319:ASP:N	1:L:320:PRO:CD	2.80	0.45
1:N:530:ASN:HD22	1:Y:547:LEU:HD21	207.32	0.45
1:N:288:GLY:O	1:O:188:VAL:HG23	50.32	0.45
1:T:331:HIS:CE1	1:U:342:HIS:HD2	62.69	0.45
1:U:239:ARG:HH21	1:U:239:ARG:HB3	1.81	0.45
1:U:357:SER:HB2	1:U:398:ASN:O	2.17	0.45
1:G:381:TYR:OH	1:W:74:GLU:OE2	2.32	0.45
1:Z:108:THR:HG21	1:Z:210:TYR:HD2	1.80	0.45
1:K:288:GLY:O	1:I:188:VAL:HG23	2.16	0.45
1:K:569:MET:HE2	1:I:459:PRO:HB3	1.98	0.45
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
1:5:547:LEU:HD21	1:6:530:ASN:HD22	1.82	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:A:357:SER:HB2	1:A:398:ASN:O	2.17	0.45
1:A:465:PRO:HG3	1:B:441:ALA:HB2	59.44	0.45
1:C:465:PRO:HG3	1:E:441:ALA:HB2	108.38	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:F:217:TRP:HE3	1:F:235:LYS:HD2	1.82	0.45
1:A:288:GLY:O	1:G:188:VAL:HG23	2.17	0.45
1:H:528:GLN:NE2	1:H:530:ASN:O	2.49	0.45
1:H:547:LEU:HD21	1:4:530:ASN:HD22	199.45	0.45
1:G:288:GLY:O	1:I:188:VAL:HG23	2.16	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:K:319:ASP:N	1:K:320:PRO:CD	2.80	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:380:ASP:OD1	1:K:381:TYR:N	2.45	0.45
1:J:530:ASN:HD22	1:K:547:LEU:HD21	1.82	0.45
1:M:200:ILE:HD11	1:M:203:ARG:CG	2.38	0.45
1:P:547:LEU:HD21	1:S:530:ASN:HD22	105.21	0.45
1:Q:217:TRP:HE3	1:Q:235:LYS:HD2	1.82	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:P:530:ASN:HD22	1:S:547:LEU:HD21	111.05	0.45
1:T:357:SER:HB2	1:T:398:ASN:O	2.17	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:188:VAL:HG23	1:5:288:GLY:O	2.16	0.45
1:X:470:HIS:HB3	1:Z:329:ASN:OD1	91.75	0.45
1:N:547:LEU:HD21	1:Y:530:ASN:HD22	207.30	0.45
1:Y:547:LEU:HD21	1:Z:530:ASN:HD22	1.82	0.45
1:Z:396:GLN:OE1	1:Z:448:GLN:NE2	2.49	0.45
1:Y:530:ASN:HD22	1:Z:547:LEU:HD21	1.82	0.45
1:O:335:SER:N	1:O:406:ASN:HD22	2.14	0.45
1:K:465:PRO:HG3	1:O:441:ALA:HB2	1.98	0.45
1:7:530:ASN:HD22	1:O:547:LEU:HD21	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	128.08	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: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: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:E:287:THR:HG21	1:E:569:MET:SD	2.57	0.45
1:E:528:GLN:NE2	1:E:530:ASN:O	2.49	0.45
1:F:441:ALA:HB2	1:T:465:PRO:HG3	132.13	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:K:239:ARG:HH21	1:K:239:ARG:HB3	1.81	0.45
1:B:465:PRO:HG3	1:L:441:ALA:HB2	1.98	0.45
1:L:287:THR:HG21	1:L:569:MET:SD	2.57	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
1:K:465:PRO:HG3	1:M:441:ALA:HB2	118.17	0.45
1:J:530:ASN:HD22	1:M:547:LEU:HD21	128.64	0.45
1:O:357:SER:HB2	1:O:398:ASN:O	2.17	0.45
1:Q:441:ALA:HB2	1:R:465:PRO:HG3	62.16	0.45
1:D:547:LEU:HD21	1:Q:530:ASN:HD22	126.57	0.45
1:R:217:TRP:HE3	1:R:235:LYS:HD2	1.82	0.45
1:R:335:SER:N	1:R:406:ASN:HD22	2.14	0.45
1:R:287:THR:HG21	1:R:569:MET:SD	2.57	0.45
1:T:380:ASP:OD1	1:T:381:TYR:N	2.45	0.45
1:W:465:PRO:HG3	1:X:441:ALA:HB2	62.13	0.45
1:Y:217:TRP:HE3	1:Y:235:LYS:HD2	1.82	0.45
1:Y:287:THR:HG21	1:Y:569:MET:SD	2.57	0.45
1:Z:217:TRP:HE3	1:Z:235:LYS:HD2	1.82	0.45
1:Z:287:THR:HG21	1:Z:569:MET:SD	2.57	0.45
1:O:357:SER:HB2	1:O:398:ASN:O	2.17	0.45
1:O:287:THR:HG21	1:O:569:MET:SD	2.57	0.45
1:3:396:GLN:OE1	1:3:448:GLN:NE2	2.49	0.45
1:4:404:GLN:HE22	1:4:443:ASP:H	1.63	0.45
1:5:239:ARG:HH21	1:5:239:ARG:HB3	1.81	0.45
1:6:160:GLY:HA2	1:6:163:GLU:OE1	2.17	0.45
1:A:288:GLY:O	1:6:188:VAL:HG23	154.45	0.45
1:A:160:GLY:HA2	1:A:163:GLU:OE1	2.17	0.45
1:B:530:ASN:HD22	1:I:547:LEU:HD21	1.82	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:D:188:VAL:HG23	1:P:288:GLY:O	2.16	0.45
1:D:441:ALA:HB2	1:N:465:PRO:HG3	1.98	0.45
1:E:160:GLY:HA2	1:E:163:GLU:OE1	2.17	0.45
1:B:530:ASN:HD22	1:E:547:LEU:HD21	111.04	0.45
1:G:406:ASN:CG	1:H:342:HIS:HE1	74.11	0.45
1:H:160:GLY:HA2	1:H:163:GLU:OE1	2.17	0.45
1:H:441:ALA:HB2	1:W:465:PRO:HG3	1.98	0.45
1:A:336:TRP:CH2	1:I:435:THR:O	2.70	0.45
1:I:465:PRO:HG3	1:3:441:ALA:HB2	162.75	0.45
1:J:160:GLY:HA2	1:J:163:GLU:OE1	2.17	0.45
1:B:288:GLY:O	1:J:188:VAL:HG23	2.17	0.45
1:L:74:GLU:OE2	1:R:381:TYR:OH	186.52	0.45
1:M:287:THR:HG21	1:M:569:MET:SD	2.57	0.45
1:M:74:GLU:OE2	1:3:381:TYR:OH	2.32	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:288:GLY:O	1:N:188:VAL:HG23	2.16	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:P:217:TRP:HE3	1:P:235:LYS:HD2	1.82	0.45
1:P:287:THR:HG21	1:P:569:MET:SD	2.57	0.45
1:S:528:GLN:NE2	1:S:530:ASN:O	2.49	0.45
1:S:287:THR:HG21	1:S:569:MET:SD	2.57	0.45
1:U:160:GLY:HA2	1:U:163:GLU:OE1	2.17	0.45
1:V:239:ARG:HH21	1:V:239:ARG:HB3	1.81	0.45
1:V:287:THR:HG21	1:V:569:MET:SD	2.57	0.45
1:W:239:ARG:HH21	1:W:239:ARG:HB3	1.82	0.45
1:V:381:TYR:OH	1:W:74:GLU:OE2	62.39	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	159.30	0.45
1:0:235:LYS:HB2	1:0:235:LYS:HE2	1.82	0.45
1:2:386:ASP:OD1	1:2:387:ASP:OD1	2.34	0.45
1:2:335:SER:N	1:2:406:ASN:HD22	2.14	0.45
1:4:380:ASP:OD1	1:4:381:TYR:N	2.45	0.45
1:V:279:TYR:OH	1:5:242:ASP:OD2	2.30	0.45
1:V:441:ALA:HB2	1:5:465:PRO:HG3	1.98	0.45
1:7:319:ASP:N	1:7:320:PRO:CD	2.80	0.45
1:A:530:ASN:HD22	1:F:547:LEU:HD21	1.82	0.45
1:B:459:PRO:HB3	1:L:569:MET:HE2	1.99	0.45
1:B:287:THR:HG21	1:B:569:MET:SD	2.57	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:319:ASP:N	1:E:320:PRO:CD	2.80	0.45
1:F:387:ASP:HA	1:F:388:PRO:HD3	1.84	0.45
1:G:287:THR:HG21	1:G:569:MET:SD	2.57	0.45
1:H:217:TRP:HE3	1:H:235:LYS:HD2	1.82	0.45
1:H:441:ALA:HB2	1:O:465:PRO:HG3	184.84	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	183.85	0.45
1:J:441:ALA:HB2	1:L:465:PRO:HG3	1.98	0.45
1:N:160:GLY:HA2	1:N:163:GLU:OE1	2.17	0.45
1:N:319:ASP:N	1:N:320:PRO:CD	2.80	0.45
1:N:528:GLN:NE2	1:N:530:ASN:O	2.49	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:530:ASN:HD22	1:P:547:LEU:HD21	1.82	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	92.22	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	50.36	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: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: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:W:82:ARG:NH1	1:W:236:LYS:HD3	2.31	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:K:459:PRO:HB3	1:O:569:MET:HE2	1.99	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
1:4:335:SER:N	1:4:406:ASN:HD22	2.14	0.44
1:4:287:THR:HG21	1:4:569:MET:SD	2.57	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
1:7:217:TRP:HE3	1:7:235:LYS:HD2	1.82	0.44
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:A:74:GLU:OE2	1:B:381:TYR:OH	2.32	0.44
1:D:74:GLU:OE2	1:F:381:TYR:OH	82.34	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:G:239:ARG:HH21	1:G:239:ARG:HB3	1.81	0.44
1:G:74:GLU:OE2	1:N:381:TYR:OH	159.30	0.44
1:G:279:TYR:OH	1:I:242:ASP:OD2	2.30	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: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:Q:319:ASP:N	1:Q:320:PRO:CD	2.80	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:T:242:ASP:OD2	1:V:279:TYR:OH	102.47	0.44
1:T:470:HIS:HB3	1:V:329:ASN:OD1	91.75	0.44
1:V:387:ASP:HA	1:V:388:PRO:HD3	1.84	0.44
1:U:441:ALA:HB2	1:V:465:PRO:HG3	62.13	0.44
1:H:279:TYR:OH	1:W:242:ASP:OD2	2.30	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:160:GLY:HA2	1:Z:163:GLU:OE1	2.17	0.44
1:Z:528:GLN:NE2	1:Z:530:ASN:O	2.49	0.44
1:0:319:ASP:N	1:0:320:PRO:CD	2.80	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:B:465:PRO:HG3	1:6:441:ALA:HB2	195.58	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: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:D:319:ASP:N	1:D:320:PRO:CD	2.80	0.44
1:E:136:GLU:HA	1:E:277:LEU:HD13	2.00	0.44
1:E:380:ASP:OD1	1:E:381:TYR:N	2.45	0.44
1:F:160:GLY:HA2	1:F:163:GLU:OE1	2.17	0.44
1:F:404:GLN:HE22	1:F:443:ASP:H	1.63	0.44
1:G:329:ASN:OD1	1:I:470:HIS:HB3	2.15	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:H:406:ASN:CG	1:W:342:HIS:HE1	2.16	0.44
1:J:239:ARG:HH21	1:J:239:ARG:HB3	1.82	0.44
1:K:408:ALA:N	1:K:409:PRO:CD	2.80	0.44
1:K:287:THR:HG21	1:K:569:MET:SD	2.57	0.44
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: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:S:319:ASP:N	1:S:320:PRO:CD	2.80	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:U:530:ASN:HD22	1:V:547:LEU:HD21	1.82	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:V:569:MET:HE2	1:5:459:PRO:HB3	1.99	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:H:336:TRP:CH2	1:Y:435:THR:O	2.71	0.44
1:Y:528:GLN:NE2	1:Y:530:ASN:O	2.49	0.44
1:X:336:TRP:CH2	1:Z:435:THR:O	119.45	0.44
1:1:239:ARG:HH21	1:1:239:ARG:HB3	1.81	0.44
1:1:406:ASN:CG	1:0:342:HIS:HE1	2.16	0.44
1:2:136:GLU:HA	1:2:277:LEU:HD13	2.00	0.44
1:J:441:ALA:HB2	1:3:465:PRO:HG3	117.13	0.44
1:5:380:ASP:OD1	1:5:381:TYR:N	2.45	0.44
1:A:242:ASP:OD2	1:B:279:TYR:OH	25.51	0.44
1:A:287:THR:HG21	1:A:569:MET:SD	2.57	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:H:357:SER:HB2	1:H:398:ASN:O	2.17	0.44
1:A:342:HIS:HD2	1:I:331:HIS:CE1	2.30	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:L:406:ASN:CG	1:M:342:HIS:HE1	84.40	0.44
1:P:408:ALA:N	1:P:409:PRO:CD	2.80	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: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:V:342:HIS:HE1	1:X:406:ASN:CG	2.16	0.44
1:W:342:HIS:HE1	1:X:406:ASN:CG	74.10	0.44
1:Y:387:ASP:HA	1:Y:388:PRO:HD3	1.84	0.44
1:0:239:ARG:HH21	1:0:239:ARG:HB3	1.82	0.44
1:1:160:GLY:HA2	1:1:163:GLU:OE1	2.17	0.44
1:1:136:GLU:HA	1:1:277:LEU:HD13	2.00	0.44
1:2:217:TRP:HE3	1:2:235:LYS:HD2	1.82	0.44
1:2:82:ARG:NH1	1:2:236:LYS:HD3	2.31	0.44
1:F:465:PRO:HG3	1:4:441:ALA:HB2	124.26	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:4:468:SER:OG	1:4:471:ALA:O	2.21	0.44
1:4:48:PHE:CE1	1:4:57:ILE:HG23	2.53	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:217:TRP:HE3	1:A:235:LYS:HD2	1.82	0.44
1:A:48:PHE:CE1	1:A:57:ILE:HG23	2.53	0.44
1:B:48:PHE:CE1	1:B:57:ILE:HG23	2.53	0.44
1:C:136:GLU:HA	1:C:277:LEU:HD13	2.00	0.44
1:C:48:PHE:CE1	1:C:57:ILE:HG23	2.53	0.44
1:F:408:ALA:N	1:F:409:PRO:CD	2.80	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: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:N:408:ALA:N	1:N:409:PRO:CD	2.80	0.44
1:O:319:ASP:N	1:O:320:PRO:CD	2.80	0.44
1:G:336:TRP:CH2	1:O:435:THR:O	183.14	0.44
1:O:287:THR:HG21	1:O:569:MET:SD	2.57	0.44
1:S:408:ALA:N	1:S:409:PRO:CD	2.80	0.44
1:S:48:PHE:CE1	1:S:57:ILE:HG23	2.53	0.44
1:T:160:GLY:HA2	1:T:163:GLU:OE1	2.17	0.44
1:U:287:THR:HG21	1:U:569:MET:SD	2.57	0.44
1:W:287:THR:HG21	1:W:569:MET:HE3	1.99	0.44
1:W:530:ASN:HD22	1:1:547:LEU:HD21	110.61	0.44
1:Z:288:GLY:O	1:7:188:VAL:HG23	150.63	0.44
1:Z:319:ASP:N	1:Z:320:PRO:CD	2.80	0.44
1:I:530:ASN:HD22	1:Z:547:LEU:HD21	105.22	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:C:435:THR:O	1:2:336:TRP:CH2	2.71	0.44
1:2:380:ASP:OD1	1:2:381:TYR:N	2.45	0.44
1:2:48:PHE:CE1	1:2:57:ILE:HG23	2.53	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
1:7:287:THR:HG21	1:7:569:MET:SD	2.57	0.44
1:A:336:TRP:CH2	1:B:435:THR:O	75.38	0.44
1:B:528:GLN:NE2	1:B:530:ASN:O	2.49	0.44
1:C:217:TRP:HE3	1:C:235:LYS:HD2	1.82	0.44
1:C:82:ARG:NH1	1:C:236:LYS:HD3	2.31	0.44
1:E:217:TRP:HE3	1:E:235:LYS:HD2	1.82	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:408:ALA:N	1:E:409:PRO:CD	2.80	0.44
1:C:336:TRP:CH2	1:E:435:THR:O	125.47	0.44
1:F:136:GLU:HA	1:F:277:LEU:HD13	1.99	0.44
1:F:287:THR:HG21	1:F:569:MET:SD	2.57	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:528:GLN:NE2	1:I:530:ASN:O	2.49	0.44
1:I:287:THR:HG21	1:I:569:MET:SD	2.57	0.44
1:J:288:GLY:O	1:L:188:VAL:HG23	2.16	0.44
1:L:217:TRP:HE3	1:L:235:LYS:HD2	1.82	0.44
1:K:435:THR:O	1:L:336:TRP:CH2	75.39	0.44
1:B:336:TRP:CH2	1:L:435:THR:O	2.71	0.44
1:N:239:ARG:HH21	1:N:239:ARG:HB3	1.81	0.44
1:N:48:PHE:CE1	1:N:57:ILE:HG23	2.53	0.44
1:O:48:PHE:CE1	1:O:57:ILE:HG23	2.53	0.44
1:Q:408:ALA:N	1:Q:409: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:T:287:THR:HG21	1:T:569:MET:SD	2.57	0.44
1:X:408:ALA:N	1:X:409:PRO:CD	2.80	0.44
1:X:48:PHE:CE1	1:X:57:ILE:HG23	2.53	0.44
1:V:530:ASN:HD22	1:X:547:LEU:HD21	80.65	0.44
1:Z:48:PHE:CE1	1:Z:57:ILE:HG23	2.53	0.44
1:1:357:SER:HB2	1:1:398:ASN:O	2.17	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:B:188:VAL:HG23	1:6:288:GLY:O	203.90	0.44
1:7:380:ASP:OD1	1:7:381:TYR:N	2.45	0.44
1:A:330:PHE:HZ	1:G:474:ILE:HD12	1.83	0.44
1:A:408:ALA:N	1:A:409:PRO:CD	2.80	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:G:530:ASN:HD22	1:H:547:LEU:HD21	1.82	0.44
1:I:217:TRP:HE3	1:I:235:LYS:HD2	1.82	0.44
1:I:48:PHE:CE1	1:I:57:ILE:HG23	2.53	0.44
1:K:48:PHE:CE1	1:K:57:ILE:HG23	2.53	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:G:381:TYR:OH	1:M:74:GLU:OE2	193.71	0.44
1:N:441:ALA:HB2	1:P:465:PRO:HG3	1.98	0.44
1:E:330:PHE:HZ	1:Q:474:ILE:HD12	1.83	0.44
1:Q:48:PHE:CE1	1:Q:57:ILE:HG23	2.53	0.44
1:Q:381:TYR:OH	1:S:74:GLU:OE2	2.32	0.44
1:T:217:TRP:HE3	1:T:235:LYS:HD2	1.82	0.44
1:T:48:PHE:CE1	1:T:57:ILE:HG23	2.53	0.44
1:S:288:GLY:O	1:U:188:VAL:HG23	2.16	0.44
1:U:435:THR:O	1:V:336:TRP:CH2	72.17	0.44
1:W:435:THR:O	1:Z:336:TRP:CH2	74.88	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:Z:408:ALA:N	1:Z:409:PRO:CD	2.80	0.44
1:O:160:GLY:HA2	1:O:163:GLU:OE1	2.17	0.44
1:O:408:ALA:N	1:O:409:PRO:CD	2.80	0.44
1:O:48:PHE:CE1	1:O:57:ILE:HG23	2.53	0.44
1:3:160:GLY:HA2	1:3:163:GLU:OE1	2.17	0.44
1:6:217:TRP:HE3	1:6:235:LYS:HD2	1.82	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:B:217:TRP:HE3	1:B:235:LYS:HD2	1.82	0.44
1:C:314:TRP:HB2	1:C:417:LEU:HD23	2.00	0.44
1:C:435:THR:O	1:D:336:TRP:CH2	81.82	0.44
1:E:387:ASP:HA	1:E:388:PRO:HD3	1.84	0.44
1:E:48:PHE:CE1	1:E:57:ILE:HG23	2.53	0.44
1:G:136:GLU:HA	1:G:277:LEU:HD13	2.00	0.44
1:G:48:PHE:CE1	1:G:57:ILE:HG23	2.53	0.44
1:H:136:GLU:HA	1:H:277:LEU:HD13	2.00	0.44
1:H:74:GLU:OE2	1:L:381:TYR:OH	136.67	0.44
1:G:435:THR:O	1:I:336:TRP:CH2	2.71	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:K:314:TRP:HB2	1:K:417:LEU:HD23	2.00	0.44
1:K:530:ASN:HD22	1:R:547:LEU:HD21	166.97	0.44
1:M:48:PHE:CE1	1:M:57:ILE:HG23	2.53	0.44
1:O:314:TRP:HB2	1:O:417:LEU:HD23	2.00	0.44
1:O:408:ALA:N	1:O:409:PRO:CD	2.80	0.44
1:N:547:LEU:HD21	1:O:530:ASN:HD22	1.82	0.44
1:P:314:TRP:HB2	1:P:417:LEU:HD23	2.00	0.44
1:R:435:THR:O	1:S:336:TRP:CH2	2.71	0.44
1:R:74:GLU:OE2	1:V:381:TYR:OH	2.32	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:T:435:THR:O	1:U:336:TRP:CH2	75.39	0.44
1:V:235:LYS:HB2	1:V:235:LYS:HE2	1.82	0.44
1:T:336:TRP:CH2	1:V:435:THR:O	119.45	0.44
1:V:48:PHE:CE1	1:V:57:ILE:HG23	2.53	0.44
1:W:319:ASP:N	1:W:320:PRO:CD	2.80	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
1:2:249:GLU:OE1	1:2:249:GLU:N	2.51	0.44
1:2:314:TRP:HB2	1:2:417:LEU:HD23	2.00	0.44
1:2:287:THR:HG21	1:2:569:MET:SD	2.57	0.44
1:3:287:THR:HG21	1:3:569:MET:SD	2.57	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:Z:569:MET:HE2	1:7:459:PRO:HB3	138.96	0.44
1:A:435:THR:O	1:G:336:TRP:CH2	2.71	0.44
1:D:48:PHE:CE1	1:D:57:ILE:HG23	2.53	0.44
1:F:435:THR:O	1:T:336:TRP:CH2	134.18	0.44
1:G:547:LEU:HD21	1:L:530:ASN:HD22	128.64	0.44
1:I:336:TRP:CH2	1:3:435:THR:O	179.02	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: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: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: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:H:435:THR:O	1:W:336:TRP:CH2	2.71	0.44
1:X:200:ILE:HA	1:X:201:PRO:HD3	1.89	0.44
1:V:547:LEU:HD21	1:X:530:ASN:HD22	53.67	0.44
1:Z:113:ILE:HG23	1:Z:197:LEU:HD11	2.00	0.44
1:I:547:LEU:HD21	1:Z:530:ASN:HD22	111.05	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
1:7:48: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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:249:GLU:N	1:C:249:GLU:OE1	2.51	0.44
1:D:113:ILE:HG23	1:D:197:LEU:HD11	2.00	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: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:G:435:THR:O	1:H:336:TRP:CH2	72.17	0.44
1:H:408:ALA:N	1:H:409:PRO:CD	2.80	0.44
1:I:113:ILE:HG23	1:I:197:LEU:HD11	2.00	0.44
1:K:336:TRP:CH2	1:O:435:THR:O	2.71	0.44
1:L:314:TRP:HB2	1:L:417:LEU:HD23	2.00	0.44
1:L:435:THR:O	1:M:336:TRP:CH2	82.59	0.44
1:N:314:TRP:HB2	1:N:417:LEU:HD23	2.00	0.44
1:N:435:THR:O	1:P:336:TRP:CH2	2.71	0.44
1:P:160:GLY:HA2	1:P:163:GLU:OE1	2.17	0.44
1:Q:200:ILE:HA	1:Q:201:PRO:HD3	1.89	0.44
1:Q:435:THR:O	1:R:336:TRP:CH2	72.19	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:336:TRP:CH2	1:X:435:THR:O	72.17	0.44
1:W:314:TRP:HB2	1:W:417:LEU:HD23	2.00	0.44
1:X:113:ILE:HG23	1:X:197:LEU:HD11	2.00	0.44
1:Z:136:GLU:HA	1:Z:277:LEU:HD13	2.00	0.44
1:Y:435:THR:O	1:Z:336:TRP:CH2	72.17	0.44
1:Z:387:ASP:HA	1:Z:388:PRO:HD3	1.84	0.44
1:0:380:ASP:OD1	1:0:381:TYR:N	2.45	0.43
1:4:287:THR:HG21	1:4:569:MET:HE3	1.99	0.43
1:5:160:GLY:HA2	1:5:163:GLU:OE1	2.17	0.43
1:B:392:ASP:OD1	1:B:393:GLN:N	2.50	0.43
1:B:314:TRP:HB2	1:B:417:LEU:HD23	2.00	0.43
1:C:200:ILE:HA	1:C:201:PRO:HD3	1.89	0.43
1:E:235:LYS:HE2	1:E:235:LYS:HB2	1.82	0.43
1:B:547:LEU:HD21	1:E:530:ASN:HD22	105.21	0.43
1:E:74:GLU:OE2	1:Q:381:TYR:OH	94.95	0.43
1:E:86:PHE:CD1	1:E:87:PRO:HD2	2.53	0.43
1:F:314:TRP:HB2	1:F:417:LEU:HD23	2.00	0.43
1:G:314:TRP:HB2	1:G:417:LEU:HD23	2.00	0.43
1:I:314:TRP:HB2	1:I:417:LEU:HD23	2.00	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:86:PHE:CD1	1:K:87:PRO:HD2	2.53	0.43
1:C:530:ASN:HD22	1:L:547:LEU:HD21	1.82	0.43
1:G:530:ASN:HD22	1:L:547:LEU:HD21	128.63	0.43
1:M:113:ILE:HG23	1:M:197:LEU:HD11	2.00	0.43
1:N:86:PHE:CD1	1:N:87:PRO:HD2	2.53	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:HH21	1:Q:239:ARG:HB3	1.81	0.43
1:F:342:HIS:HE1	1:Q:406:ASN:CG	2.21	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:S:86:PHE:CD1	1:S:87:PRO:HD2	2.53	0.43
1:T:381:TYR:OH	1:U:74:GLU:OE2	2.32	0.43
1:U:86:PHE:CD1	1:U:87:PRO:HD2	2.54	0.43
1:W:217:TRP:HE3	1:W:235:LYS:HD2	1.82	0.43
1:Y:136:GLU:HA	1:Y:277:LEU:HD13	2.00	0.43
1:Z:392:ASP:OD1	1:Z:393:GLN:N	2.50	0.43
1:1:314:TRP:HB2	1:1:417:LEU:HD23	2.00	0.43
1:1:48:PHE:CE1	1:1:57:ILE:HG23	2.53	0.43
1:2:379:PHE:CE2	1:2:392:ASP:HB3	2.54	0.43
1:2:86:PHE:CD1	1:2:87:PRO:HD2	2.53	0.43
1:4:160:GLY:HA2	1:4:163:GLU:OE1	2.17	0.43
1:5:287:THR:HG21	1:5:569:MET:HE3	1.99	0.43
1:B:336:TRP:CH2	1:6:435:THR:O	211.38	0.43
1:7:113:ILE:HG23	1:7:197:LEU:HD11	2.00	0.43
1:A:435:THR:O	1:6:336:TRP:CH2	177.84	0.43
1:A:86:PHE:CD1	1:A:87:PRO:HD2	2.53	0.43
1:C:379:PHE:CE2	1:C:392:ASP:HB3	2.54	0.43
1:C:86:PHE:CD1	1:C:87:PRO:HD2	2.54	0.43
1:D:530:ASN:HD22	1:Q:547:LEU:HD21	126.61	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	81.82	0.43
1:E:379:PHE:CE2	1:E:392:ASP:HB3	2.54	0.43
1:G:289:SER:HA	1:I:188:VAL:HG23	2.00	0.43
1:I:235:LYS:HE2	1:I:235:LYS:HB2	1.82	0.43
1:K:188:VAL:HG23	1:M:289:SER:HA	115.28	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:188:VAL:HG23	1:P:289:SER:HA	46.62	0.43
1:Q:86:PHE:CD1	1:Q:87:PRO:HD2	2.54	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:R:314:TRP:HB2	1:R:417:LEU:HD23	2.00	0.43
1:S:136:GLU:HA	1:S:277:LEU:HD13	2.00	0.43
1:S:160:GLY:HA2	1:S:163:GLU:OE1	2.17	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:T:314:TRP:HB2	1:T:417:LEU:HD23	2.00	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:136:GLU:HA	1:V:277:LEU:HD13	2.00	0.43
1:V:336:TRP:CH2	1:X:435:THR:O	2.71	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:239:ARG:HB3	1:X:239:ARG:HH21	1.81	0.43
1:0:314:TRP:HB2	1:0:417:LEU:HD23	2.00	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:342:HIS:HE1	1:6:406:ASN:CG	221.18	0.43
1:7:239:ARG:HH21	1:7:239:ARG:HB3	1.81	0.43
1:B:379:PHE:CE2	1:B:392:ASP:HB3	2.54	0.43
1:C:336:TRP:CH2	1:M:435:THR:O	2.71	0.43
1:F:249:GLU:N	1:F:249:GLU:OE1	2.51	0.43
1:G:86:PHE:CD1	1:G:87:PRO:HD2	2.53	0.43
1:I:86:PHE:CD1	1:I:87:PRO:HD2	2.53	0.43
1:J:379:PHE:CE2	1:J:392:ASP:HB3	2.54	0.43
1:K:136:GLU:HA	1:K:277:LEU:HD13	1.99	0.43
1:K:379:PHE:CE2	1:K:392:ASP:HB3	2.54	0.43
1:K:459:PRO:HB3	1:M:569:MET:HE1	116.46	0.43
1:O:136:GLU:HA	1:O:277:LEU:HD13	2.00	0.43
1:H:289:SER:HA	1:O:188:VAL:HG23	174.80	0.43
1:R:48:PHE:CE1	1:R:57:ILE:HG23	2.53	0.43
1:S:239:ARG:HB3	1:S:239:ARG:HH21	1.82	0.43
1:T:188:VAL:HG23	1:V:289:SER:HA	79.77	0.43
1:T:86:PHE:CD1	1:T:87:PRO:HD2	2.53	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:W:235:LYS:HB2	1:W:235:LYS:HE2	1.82	0.43
1:W:408:ALA:N	1:W:409:PRO:CD	2.80	0.43
1:X:314:TRP:HB2	1:X:417:LEU:HD23	2.00	0.43
1:Z:314:TRP:HB2	1:Z:417:LEU:HD23	2.00	0.43
1:7:547:LEU:HD21	1:0:530:ASN:HD22	1.82	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:0:86:PHE:CD1	1:0:87:PRO:HD2	2.53	0.43
1:3:314:TRP:HB2	1:3:417:LEU:HD23	2.00	0.43
1:3:48:PHE:CE1	1:3:57:ILE:HG23	2.53	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
1:A:441:ALA:HB2	1:6:465:PRO:HG3	162.05	0.43
1:B:441:ALA:HB2	1:J:465:PRO:HG3	1.98	0.43
1:D:289:SER:HA	1:E:188:VAL:HG23	94.37	0.43
1:F:379:PHE:CE2	1:F:392:ASP:HB3	2.54	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	50.37	0.43
1:H:379:PHE:CE2	1:H:392:ASP:HB3	2.54	0.43
1:I:435:THR:O	1:J:336:TRP:CH2	75.39	0.43
1:B:435:THR:O	1:J:336:TRP:CH2	2.71	0.43
1:J:435:THR:O	1:3:336:TRP:CH2	125.48	0.43
1:K:113:ILE:HG23	1:K:197:LEU:HD11	2.00	0.43
1:L:86:PHE:CD1	1:L:87:PRO:HD2	2.53	0.43
1:L:289:SER:HA	1:M:188:VAL:HG23	89.81	0.43
1:C:188:VAL:HG23	1:M:289:SER:HA	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:H:435:THR:O	1:O:336:TRP:CH2	205.49	0.43
1:O:435:THR:O	1:P:336:TRP:CH2	75.39	0.43
1:N:289:SER:HA	1:P:188:VAL:HG23	2.01	0.43
1:Q:235:LYS:HB2	1:Q:235:LYS:HE2	1.82	0.43
1:R:289:SER:HA	1:S:188:VAL:HG23	2.01	0.43
1:T:235:LYS:HB2	1:T:235:LYS:HE2	1.82	0.43
1:T:435:THR:O	1:4:336:TRP:CH2	2.71	0.43
1:U:379:PHE:CE2	1:U:392:ASP:HB3	2.54	0.43
1:O:530:ASN:HD22	1:U:547:LEU:HD21	165.92	0.43
1:U:547:LEU:HD21	1:V:530:ASN:HD22	1.82	0.43
1:V:379:PHE:CE2	1:V:392:ASP:HB3	2.54	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:N:381:TYR:OH	1:Z:74:GLU:OE2	203.50	0.43
1:Z:86:PHE:CD1	1:Z:87:PRO:HD2	2.54	0.43
1:0:528:GLN:NE2	1:0:530:ASN:O	2.49	0.43
1:1:379:PHE:CE2	1:1:392:ASP:HB3	2.54	0.43
1:5:113:ILE:HG23	1:5:197:LEU:HD11	2.00	0.43
1:6:444:ASP:OD1	1:6:562:ARG:NH2	2.52	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:C:289:SER:HA	1:D:188:VAL:HG23	94.37	0.43
1:D:379:PHE:CE2	1:D:392:ASP:HB3	2.54	0.43
1:F:336:TRP:CH2	1:4:435:THR:O	135.46	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:H:569:MET:HE1	1:O:459:PRO:HB3	179.32	0.43
1:H:86:PHE:CD1	1:H:87:PRO:HD2	2.54	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:330:PHE:HZ	1:M:474:ILE:HD12	78.77	0.43
1:K:336:TRP:CH2	1:M:435:THR:O	126.34	0.43
1:D:547:LEU:HD21	1:M:530:ASN:HD22	1.82	0.43
1:N:336:TRP:CH2	1:P:435:THR:O	12.21	0.43
1:N:379:PHE:CE2	1:N:392:ASP:HB3	2.54	0.43
1:N:435:THR:O	1:O:336:TRP:CH2	72.17	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	139.88	0.43
1:Q:379:PHE:CE2	1:Q:392:ASP:HB3	2.54	0.43
1:S:444:ASP:OD1	1:S:562:ARG:NH2	2.52	0.43
1:U:136:GLU:HA	1:U:277:LEU:HD13	2.00	0.43
1:V:86:PHE:CD1	1:V:87:PRO:HD2	2.53	0.43
1:W:113:ILE:HG23	1:W:197:LEU:HD11	2.00	0.43
1:X:379:PHE:CE2	1:X:392:ASP:HB3	2.54	0.43
1:Y:314:TRP:HB2	1:Y:417:LEU:HD23	2.00	0.43
1:H:474:ILE:HD12	1:Y:330:PHE:HZ	1.84	0.43
1:Y:48:PHE:CE1	1:Y:57:ILE:HG23	2.53	0.43
1:X:474:ILE:HD12	1:Z:330:PHE:HZ	93.10	0.43
1:Z:444:ASP:OD1	1:Z:562:ARG:NH2	2.52	0.43
1:1:290:VAL:HG11	1:0:105:GLN:OE1	2.19	0.43
1:0:379:PHE:CE2	1:0:392:ASP:HB3	2.54	0.43
1:3:444:ASP:OD1	1:3:562:ARG:NH2	2.52	0.43
1:3:86:PHE:CD1	1:3:87:PRO:HD2	2.53	0.43
1:4:249:GLU:N	1:4:249:GLU:OE1	2.51	0.43
1:7:379:PHE:CE2	1:7:392:ASP:HB3	2.54	0.43
1:A:314:TRP:HB2	1:A:417:LEU:HD23	2.00	0.43
1:A:459:PRO:HB3	1:B:569:MET:HE2	53.46	0.43
1:A:444:ASP:OD1	1:A:562:ARG:NH2	2.52	0.43
1:B:381:TYR:OH	1:C:74:GLU:OE2	62.39	0.43
1:D:336:TRP:CH2	1:P:435:THR:O	2.71	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:249:GLU:N	1:E:249:GLU:OE1	2.51	0.43
1:F:444:ASP:OD1	1:F:562:ARG:NH2	2.52	0.43
1:F:86:PHE:CD1	1:F:87:PRO:HD2	2.54	0.43
1:G:113:ILE:HG23	1:G:197:LEU:HD11	2.00	0.43
1:G:330:PHE:HZ	1:H:474:ILE:HD12	56.67	0.43
1:J:113:ILE:HG23	1:J:197:LEU:HD11	2.00	0.43
1:J:249:GLU:N	1:J:249:GLU:OE1	2.51	0.43
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:314:TRP:HB2	1:M:417:LEU:HD23	2.00	0.43
1:O:444:ASP:OD1	1:O:562:ARG:NH2	2.52	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:Q:336:TRP:CH2	1:S:435:THR:O	81.84	0.43
1:U:444:ASP:OD1	1:U:562:ARG:NH2	2.52	0.43
1:V:289:SER:HA	1:5:188:VAL:HG23	2.01	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:W:387:ASP:HA	1:W:388:PRO:HD3	1.84	0.43
1:Y:86:PHE:CD1	1:Y:87:PRO:HD2	2.54	0.43
1:W:569:MET:HE2	1:Z:459:PRO:HB3	74.83	0.43
1:O:136:GLU:HA	1:O:277:LEU:HD13	2.00	0.43
1:M:188:VAL:HG23	1:2:289:SER:HA	2.01	0.43
1:5:444:ASP:OD1	1:5:562:ARG:NH2	2.52	0.43
1:6:408:ALA:N	1:6:409:PRO:CD	2.80	0.43
1:7:314:TRP:HB2	1:7:417:LEU:HD23	2.00	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:G:188:VAL:HG23	1:O:289:SER:HA	169.32	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: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:J:330:PHE:HZ	1:3:474:ILE:HD12	104.92	0.43
1:N:290:VAL:HG11	1:P:105:GLN:OE1	2.19	0.43
1:P:444:ASP:OD1	1:P:562:ARG:NH2	2.52	0.43
1:R:290:VAL:HG11	1:S:105:GLN:OE1	2.19	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:379:PHE:CE2	1:T:392:ASP:HB3	2.54	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:Y:105:GLN:OE1	1:7:290:VAL:HG11	165.52	0.43
1:Y:290:VAL:HG11	1:Z:105:GLN:OE1	49.18	0.43
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:F:474:ILE:HD12	1:4:330:PHE:HZ	129.25	0.43
1:X:336:TRP:CH2	1:5:435:THR:O	2.71	0.43
1:6:392:ASP:OD1	1:6:393:GLN:N	2.50	0.43
1:A:569:MET:HE2	1:6:459:PRO:HB3	158.60	0.43
1:Z:290:VAL:HG11	1:7:105:GLN:OE1	164.90	0.43
1:7:528:GLN:NE2	1:7:530:ASN:O	2.49	0.43
1:B:188:VAL:HG23	1:6:289:SER:HA	204.34	0.43
1:B:113:ILE:HG23	1:B:197:LEU:HD11	2.00	0.43
1:B:459:PRO:HB3	1:6:569:MET:HE2	196.49	0.43
1:E:200:ILE:HA	1:E:201:PRO:HD3	1.89	0.43
1:G:330:PHE:HZ	1:I:474:ILE:HD12	1.84	0.43
1:J:406:ASN:CG	1:L:342:HIS:HE1	2.16	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:K:289:SER:HA	1:L:188:VAL:HG23	60.56	0.43
1:L:249:GLU:N	1:L:249:GLU:OE1	2.51	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	49.18	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:336:TRP:CH2	1:U:435:THR:O	2.71	0.43
1:R:379:PHE:CE2	1:R:392:ASP:HB3	2.54	0.43
1:T:290:VAL:HG11	1:U:105:GLN:OE1	59.68	0.43
1:V:290:VAL:HG11	1:5:105:GLN:OE1	2.19	0.43
1:W:188:VAL:HG23	1:X:289:SER:HA	50.37	0.43
1:W:86:PHE:CD1	1:W:87:PRO:HD2	2.53	0.43
1:X:86:PHE:CD1	1:X:87:PRO:HD2	2.53	0.43
1:W:569:MET:HE2	1:Y:459:PRO:HB3	2.00	0.43
1:1:86:PHE:CD1	1:1:87:PRO:HD2	2.53	0.43
1:T:289:SER:HA	1:4:188:VAL:HG23	2.00	0.43
1:6:287:THR:HG21	1:6:569:MET:HE3	1.99	0.43
1:6:86:PHE:CD1	1:6:87:PRO:HD2	2.53	0.43
1:Z:435:THR:O	1:7:336:TRP:CH2	134.16	0.43
1:A:105:GLN:OE1	1:B:290:VAL:HG11	59.69	0.43
1:A:113:ILE:HG23	1:A:197:LEU:HD11	2.00	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:105:GLN:OE1	1:L:290:VAL:HG11	2.19	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:B:86:PHE:CD1	1:B:87:PRO:HD2	2.53	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: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:I:444:ASP:OD1	1:I:562:ARG:NH2	2.52	0.43
1:J:314:TRP:HB2	1:J:417:LEU:HD23	2.00	0.43
1:K:105:GLN:OE1	1:O:290:VAL:HG11	2.19	0.43
1:K:200:ILE:HA	1:K:201:PRO:HD3	1.89	0.43
1:K:435:THR:O	1:I:336:TRP:CH2	2.71	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:444:ASP:OD1	1:R:562:ARG:NH2	2.52	0.43
1:Q:105:GLN:OE1	1:S:290:VAL:HG11	101.40	0.43
1:S:290:VAL:HG11	1:U:105:GLN:OE1	2.19	0.43
1:T:474:ILE:HD12	1:V:330:PHE:HZ	93.10	0.43
1:U:249:GLU:OE1	1:U:249:GLU:N	2.51	0.43
1:T:406:ASN:CG	1:U:342:HIS:HE1	60.83	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	50.37	0.43
1:Y:444:ASP:OD1	1:Y:562:ARG:NH2	2.52	0.43
1:Z:379:PHE:CE2	1:Z:392:ASP:HB3	2.54	0.43
1:I:289:SER:HA	1:O:188:VAL:HG23	2.01	0.43
1:O:444:ASP:OD1	1:O:562:ARG:NH2	2.52	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
1:7:136: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:A:431:ASP:O	1:A:432:TYR:HB2	2.19	0.43
1:B:249:GLU:OE1	1:B:249:GLU:N	2.51	0.43
1:D:289:SER:HA	1:N:188:VAL:HG23	2.01	0.43
1:G:290:VAL:HG11	1:I:105:GLN:OE1	2.19	0.43
1:A:474:ILE:HD12	1:I:330:PHE:HZ	1.84	0.43
1:I:289:SER:HA	1:J:188:VAL:HG23	60.56	0.43
1:J:289:SER:HA	1:L:188:VAL:HG23	2.01	0.43
1:N:342:HIS:ND1	1:N:342:HIS:C	2.73	0.43
1:D:105:GLN:OE1	1:P:290:VAL:HG11	2.19	0.43
1:D:474:ILE:HD12	1:P:330:PHE:HZ	1.84	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:P:431:ASP:O	1:P:432:TYR:HB2	2.19	0.43
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:T:444:ASP:OD1	1:T:562:ARG:NH2	2.52	0.43
1:U:330:PHE:HZ	1:V:474:ILE:HD12	56.67	0.43
1:S:406:ASN:CG	1:U:342:HIS:HE1	2.16	0.43
1:U:431:ASP:O	1:U:432:TYR:HB2	2.19	0.43
1:V:188:VAL:HG23	1:X:289:SER:HA	2.01	0.43
1:W:392:ASP:OD1	1:W:393:GLN:N	2.50	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:H:342:HIS:HE1	1:Y:406:ASN:CG	2.16	0.43
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
1:4:314:TRP:HB2	1:4:417:LEU:HD23	2.00	0.42
1:4:86:PHE:CD1	1:4:87:PRO:HD2	2.53	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
1:7:431:ASP:O	1:7:432:TYR:HB2	2.19	0.42
1:Y:336:TRP:CH2	1:7:435:THR:O	179.01	0.42
1:A:188:VAL:HG23	1:I:289:SER:HA	2.01	0.42
1:A:188:VAL:HG23	1:B:289:SER:HA	60.56	0.42
1:B:342:HIS:ND1	1:B:342:HIS:C	2.73	0.42
1:C:113:ILE:HG23	1:C:197:LEU:HD11	2.00	0.42
1:A:289:SER:HA	1:G:188:VAL:HG23	2.01	0.42
1:I:249:GLU:OE1	1:I:249:GLU:N	2.51	0.42
1:I:342:HIS:C	1:I:342:HIS:ND1	2.73	0.42
1:J:392:ASP:OD1	1:J:393:GLN:N	2.50	0.42
1:K:249:GLU:N	1:K:249:GLU:OE1	2.51	0.42
1:K:290:VAL:HG11	1:1:105:GLN:OE1	2.19	0.42
1:K:342:HIS:ND1	1:K:342:HIS:C	2.73	0.42
1:L:342:HIS:ND1	1:L:342:HIS:C	2.73	0.42
1:N:242:ASP:OD2	1:P:279:TYR:OH	50.25	0.42
1:O:342:HIS:ND1	1:O:342:HIS:C	2.73	0.42
1:P:113:ILE:HG23	1:P:197:LEU:HD11	2.00	0.42
1:Q:289:SER:HA	1:R:188:VAL:HG23	50.41	0.42
1:R:342:HIS:C	1:R:342:HIS:ND1	2.73	0.42
1:R:431:ASP:O	1:R:432:TYR:HB2	2.19	0.42
1:T:105:GLN:OE1	1:V:290:VAL:HG11	78.56	0.42
1:T:249:GLU:OE1	1:T:249:GLU:N	2.51	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:T:330:PHE:HZ	1:4:474:ILE:HD12	1.84	0.42
1:T:342:HIS:C	1:T:342:HIS:ND1	2.73	0.42
1:V:431:ASP:O	1:V:432:TYR:HB2	2.19	0.42
1:V:444:ASP:OD1	1:V:562:ARG:NH2	2.52	0.42
1:W:330:PHE:HZ	1:Z:474:ILE:HD12	59.34	0.42
1:X:380:ASP:OD1	1:X:381:TYR:N	2.45	0.42
1:Y:342:HIS:ND1	1:Y:342:HIS:C	2.73	0.42
1:Z:342:HIS:C	1:Z:342:HIS:ND1	2.73	0.42
1:Z:431:ASP:O	1:Z:432:TYR:HB2	2.19	0.42
1:1:444:ASP:OD1	1:1:562:ARG:NH2	2.52	0.42
1:C:290:VAL:HG11	1:2:105:GLN:OE1	2.19	0.42
1:J:569:MET:HE2	1:3:459:PRO:HB3	116.78	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:B:105:GLN:OE1	1:6:290:VAL:HG11	214.48	0.42
1:Z:289:SER:HA	1:7:188:VAL:HG23	151.49	0.42
1:7:444:ASP:OD1	1:7:562:ARG:NH2	2.52	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:547:LEU:HD21	1:F:530:ASN:HD22	86.64	0.42
1:D:444:ASP:OD1	1:D:562:ARG:NH2	2.52	0.42
1:E:113:ILE:HG23	1:E:197:LEU:HD11	2.00	0.42
1:C:105:GLN:OE1	1:E:290:VAL:HG11	104.07	0.42
1:F:200:ILE:HA	1:F:201:PRO:HD3	1.89	0.42
1:F:459:PRO:HB3	1:4:569:MET:HE2	126.57	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:330:PHE:HZ	1:J:474:ILE:HD12	65.80	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	59.68	0.42
1:K:431:ASP:O	1:K:432:TYR:HB2	2.19	0.42
1:N:105:GLN:OE1	1:P:290:VAL:HG11	56.47	0.42
1:N:431:ASP:O	1:N:432:TYR:HB2	2.19	0.42
1:G:105:GLN:OE1	1:O:290:VAL:HG11	174.62	0.42
1:F:474:ILE:HD12	1:Q:330:PHE:HZ	1.83	0.42
1:Q:474:ILE:HD12	1:S:330:PHE:HZ	76.80	0.42
1:S:289:SER:HA	1:U:188:VAL:HG23	2.01	0.42
1:U:289:SER:HA	1:V:188:VAL:HG23	50.37	0.42
1:R:342:HIS:HE1	1:U:406:ASN:CG	2.16	0.42
1:W:330:PHE:HZ	1:Y:474:ILE:HD12	1.84	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Y:379:PHE:CE2	1:Y:392:ASP:HB3	2.54	0.42
1:Y:342:HIS:HE1	1:7:406:ASN:CG	187.15	0.42
1:C:188:VAL:HG23	1:E:289:SER:HA	105.15	0.42
1:C:290:VAL:HG11	1:D:105:GLN:OE1	101.40	0.42
1:E:392:ASP:OD1	1:E:393:GLN:N	2.50	0.42
1:F:113:ILE:HG23	1:F:197:LEU:HD11	2.00	0.42
1:F:342:HIS:C	1:F:342:HIS:ND1	2.73	0.42
1:G:342:HIS:C	1:G:342:HIS:ND1	2.73	0.42
1:G:290:VAL:HG11	1:H:105:GLN:OE1	49.18	0.42
1:H:188:VAL:HG23	1:Y:289:SER:HA	2.01	0.42
1:I:290:VAL:HG11	1:J:105:GLN:OE1	59.68	0.42
1:J:290:VAL:HG11	1:3:105:GLN:OE1	126.02	0.42
1:J:290:VAL:HG11	1:L:105:GLN:OE1	2.19	0.42
1:L:290:VAL:HG11	1:M:105:GLN:OE1	95.16	0.42
1:B:474:ILE:HD12	1:L:330:PHE:HZ	1.84	0.42
1:P:379:PHE:CE2	1:P:392:ASP:HB3	2.54	0.42
1:T:290:VAL:HG11	1:4:105:GLN:OE1	2.19	0.42
1:T:289:SER:HA	1:U:188:VAL:HG23	60.56	0.42
1:U:342:HIS:C	1:U:342:HIS:ND1	2.73	0.42
1:U:290:VAL:HG11	1:V:105:GLN:OE1	49.18	0.42
1:X:105:GLN:OE1	1:Z:290:VAL:HG11	78.55	0.42
1:H:105:GLN:OE1	1:Y:290:VAL:HG11	2.20	0.42
1:1:113:ILE:HG23	1:1:197:LEU:HD11	2.00	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:Z:279:TYR:OH	1:7:242:ASP:OD2	164.29	0.42
1:7:342:HIS:ND1	1:7:342:HIS:C	2.73	0.42
1:A:474:ILE:HD12	1:B:330:PHE:HZ	65.79	0.42
1:C:289:SER:HA	1:2:188:VAL:HG23	2.01	0.42
1:C:330:PHE:HZ	1:D:474:ILE:HD12	76.79	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:C:459:PRO:HB3	1:E:569:MET:HE1	104.21	0.42
1:E:431:ASP:O	1:E:432:TYR:HB2	2.19	0.42
1:F:105:GLN:OE1	1:4:290:VAL:HG11	151.16	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:387:ASP:HA	1:H:388:PRO:HD3	1.84	0.42
1:I:431:ASP:O	1:I:432:TYR:HB2	2.19	0.42
1:K:342:HIS:HE1	1:0:406:ASN:CG	2.16	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:474:ILE:HD12	1:2:330:PHE:HZ	1.85	0.42
1:N:113:ILE:HG23	1:N:197:LEU:HD11	2.00	0.42
1:O:200:ILE:HA	1:O:201:PRO:HD3	1.89	0.42
1:G:474:ILE:HD12	1:O:330:PHE:HZ	164.02	0.42
1:Q:444:ASP:OD1	1:Q:562:ARG:NH2	2.52	0.42
1:U:406:ASN:CG	1:V:342:HIS:HE1	74.10	0.42
1:V:249:GLU:OE1	1:V:249:GLU:N	2.51	0.42
1:X:188:VAL:HG23	1:Z:289:SER:HA	79.76	0.42
1:W:474:ILE:HD12	1:X:330:PHE:HZ	56.67	0.42
1:Y:392:ASP:OD1	1:Y:393:GLN:N	2.50	0.42
1:O:249:GLU:N	1:O:249:GLU:OE1	2.51	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:B:474:ILE:HD12	1:6:330:PHE:HZ	189.67	0.42
1:C:474:ILE:HD12	1:E:330:PHE:HZ	109.58	0.42
1:D:314:TRP:HB2	1:D:417:LEU:HD23	2.00	0.42
1:J:431:ASP:O	1:J:432:TYR:HB2	2.19	0.42
1:K:392:ASP:OD1	1:K:393:GLN:N	2.50	0.42
1:L:351:ASN:HA	1:L:352:PRO:HD3	1.93	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:O:447:ILE:HG21	1:O:447:ILE:HD13	1.84	0.42
1:N:474:ILE:HD12	1:P:330:PHE:HZ	24.94	0.42
1:R:326:ARG:HD3	1:S:193:TYR:CZ	2.55	0.42
1:T:431:ASP:O	1:T:432:TYR:HB2	2.19	0.42
1:S:279:TYR:OH	1:U:242:ASP:OD2	2.29	0.42
1:W:289:SER:HA	1:Z:188:VAL:HG23	74.92	0.42
1:W:342:HIS:ND1	1:W:342:HIS:C	2.73	0.42
1:X:376:LYS:HD3	1:Z:317:ARG:H	98.60	0.42
1:1:249:GLU:OE1	1:1:249:GLU:N	2.51	0.42
1:1:330:PHE:HZ	1:O:474:ILE:HD12	1.85	0.42
1:M:105:GLN:OE1	1:2:290:VAL:HG11	2.19	0.42
1:2:342:HIS:C	1:2:342:HIS:ND1	2.73	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
1:7:235:LYS:HE2	1:7:235:LYS:HB2	1.82	0.42
1:D:330:PHE:HZ	1:N:474:ILE:HD12	1.85	0.42
1:F:351:ASN:HA	1:F:352:PRO:HD3	1.93	0.42
1:F:431:ASP:O	1:F:432:TYR:HB2	2.19	0.42
1:G:317:ARG:H	1:H:376:LYS:HD3	59.99	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J: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:K:330:PHE:HZ	1:L:474:ILE:HD12	65.80	0.42
1:K:105:GLN:OE1	1:M:290:VAL:HG11	124.15	0.42
1:L:317:ARG:H	1:M:376:LYS:HD3	105.80	0.42
1:N:444:ASP:OD1	1:N:562:ARG:NH2	2.52	0.42
1:H:290:VAL:HG11	1:O:105:GLN:OE1	180.32	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:N:326:ARG:HD3	1:P:193:TYR:CZ	2.55	0.42
1:P:342:HIS:ND1	1:P:342:HIS:C	2.73	0.42
1:Q:113:ILE:HG23	1:Q:197:LEU:HD11	2.00	0.42
1:Q:330:PHE:HZ	1:R:474:ILE:HD12	56.70	0.42
1:Q:177:VAL:HG22	1:Q:485:VAL:HG12	2.02	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	65.80	0.42
1:U:177:VAL:HG22	1:U:485:VAL:HG12	2.02	0.42
1:V:474:ILE:HD12	1:X:330:PHE:HZ	1.85	0.42
1:W:317:ARG:H	1:Y:376:LYS:HD3	1.85	0.42
1:W:317:ARG:H	1:Z:376:LYS:HD3	52.51	0.42
1:W:289:SER:HA	1:Y:188:VAL:HG23	2.00	0.42
1:Y:431:ASP:O	1:Y:432:TYR:HB2	2.19	0.42
1:I:326:ARG:HD3	1:O:193:TYR:CZ	2.55	0.42
1:A:330:PHE:HZ	1:6:474:ILE:HD12	148.63	0.42
1:Y:188:VAL:HG23	1:7:289:SER:HA	158.51	0.42
1:A:177:VAL:HG22	1:A:485:VAL:HG12	2.02	0.42
1:C:330:PHE:HZ	1:2:474:ILE:HD12	1.84	0.42
1:C:342:HIS:C	1:C:342:HIS:ND1	2.73	0.42
1:D:364:ASP:OD1	1:D:367:VAL:HG12	2.20	0.42
1:E:406:ASN:CG	1:Q:342:HIS:HE1	2.21	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:A:317:ARG:H	1:G:376:LYS:HD3	1.85	0.42
1:H:177:VAL:HG22	1:H:485:VAL:HG12	2.02	0.42
1:H:342:HIS:C	1:H:342:HIS:ND1	2.73	0.42
1:H:351:ASN:HA	1:H:352:PRO:HD3	1.93	0.42
1:K:177:VAL:HG22	1:K:485:VAL:HG12	2.02	0.42
1:L:177:VAL:HG22	1:L:485:VAL:HG12	2.02	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:279:TYR:OH	1:L:242:ASP:OD2	25.52	0.42
1:K:317:ARG:H	1:L:376:LYS:HD3	95.44	0.42
1:M:364:ASP:OD1	1:M:367:VAL:HG12	2.20	0.42
1:N:235:LYS:HB2	1:N:235:LYS:HE2	1.82	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: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:330:PHE:HZ	1:S:474:ILE:HD12	1.84	0.42
1:S:342:HIS:ND1	1:S:342:HIS:C	2.73	0.42
1:S:92:LEU:HD23	1:S:92:LEU:HA	1.90	0.42
1:R:188:VAL:HG23	1:U:289:SER:HA	2.00	0.42
1:U:364:ASP:OD1	1:U:367:VAL:HG12	2.20	0.42
1:U:39:THR:HG21	1:U:262:SER:CB	2.46	0.42
1:V:177:VAL:HG22	1:V:485:VAL:HG12	2.02	0.42
1:X:249:GLU:OE1	1:X:249:GLU:N	2.51	0.42
1:V:193:TYR:CZ	1:X:326:ARG:HD3	2.55	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
1:2:364:ASP:OD1	1:2:367:VAL:HG12	2.20	0.42
1:4:239:ARG:HB3	1:4:239:ARG:HH21	1.81	0.42
1:V:406:ASN:CG	1:5:342:HIS:HE1	2.16	0.42
1:5:364:ASP:OD1	1:5:367:VAL:HG12	2.20	0.42
1:7:364:ASP:OD1	1:7:367:VAL:HG12	2.20	0.42
1:A:364:ASP:OD1	1:A:367:VAL:HG12	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:193:TYR:HA	1:P:311:GLY:CA	2.50	0.42
1:D:330:PHE:HZ	1:E:474:ILE:HD12	76.79	0.42
1:D:342:HIS:C	1:D:342:HIS:ND1	2.73	0.42
1:D:177:VAL:HG22	1:D:485:VAL:HG12	2.02	0.42
1:E:105:GLN:OE1	1:F:290:VAL:HG11	2.18	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:I:105:GLN:OE1	1:3:290:VAL:HG11	165.52	0.42
1:G:311:GLY:CA	1:I:193:TYR:HA	2.50	0.42
1:A:105:GLN:OE1	1:I:290:VAL:HG11	2.20	0.42
1:J:342:HIS:C	1:J:342:HIS:ND1	2.73	0.42
1:K:364:ASP:OD1	1:K:367:VAL:HG12	2.20	0.42
1:M:177:VAL:HG22	1:M:485:VAL:HG12	2.02	0.42
1:M:342:HIS:ND1	1:M:342:HIS:C	2.73	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:351:ASN:HA	1:M:352:PRO:HD3	1.93	0.42
1:N:193:TYR:CZ	1:P:326:ARG:HD3	46.55	0.42
1:E:288:GLY:O	1:Q:188:VAL:HG23	2.20	0.42
1:F:290:VAL:HG11	1:T:105:GLN:OE1	164.91	0.42
1:T:193:TYR:HA	1:V:311:GLY:CA	82.44	0.42
1:T:376:LYS:HD3	1:V:317:ARG:H	98.60	0.42
1:Y:177:VAL:HG22	1:Y:485:VAL:HG12	2.02	0.42
1:Y:249:GLU:N	1:Y:249:GLU:OE1	2.51	0.42
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
1:3:351:ASN:HA	1:3:352:PRO:HD3	1.93	0.42
1:F:188:VAL:HG23	1:4:289:SER:HA	143.35	0.42
1:4:342:HIS:C	1:4:342:HIS:ND1	2.73	0.42
1:5:379:PHE:CE2	1:5:392:ASP:HB3	2.54	0.42
1:A:289:SER:HA	1:6:188:VAL:HG23	152.67	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:C:364:ASP:OD1	1:C:367:VAL:HG12	2.20	0.42
1:D:193:TYR:CZ	1:P:326:ARG:HD3	2.55	0.42
1:G:351:ASN:HA	1:G:352:PRO:HD3	1.93	0.42
1:G:376:LYS:HD3	1:O:317:ARG:H	206.43	0.42
1:G:380:ASP:OD1	1:G:381:TYR:N	2.44	0.42
1:L:364:ASP:OD1	1:L:367:VAL:HG12	2.20	0.42
1:M:200:ILE:HA	1:M:201:PRO:HD3	1.89	0.42
1:M:39:THR:HG21	1:M:262:SER:CB	2.46	0.42
1:N:193:TYR:HA	1:P:311:GLY:CA	51.02	0.42
1:N:177:VAL:HG22	1:N:485:VAL:HG12	2.02	0.42
1:O:289:SER:HA	1:P:188:VAL:HG23	60.56	0.42
1:P:351:ASN:HA	1:P:352:PRO:HD3	1.93	0.42
1:N:330:PHE:HZ	1:P:474:ILE:HD12	1.85	0.42
1:Q:193:TYR:HA	1:S:311:GLY:CA	94.19	0.42
1:R:317:ARG:H	1:S:376:LYS:HD3	1.85	0.42
1:R:311:GLY:CA	1:S:193:TYR:HA	2.51	0.42
1:Q:193:TYR:CZ	1:S:326:ARG:HD3	93.69	0.42
1:U:235:LYS:HB2	1:U:235:LYS:HE2	1.82	0.42
1:R:474:ILE:HD12	1:U:330:PHE:HZ	1.85	0.42
1:W:444:ASP:OD1	1:W:562:ARG:NH2	2.52	0.42
1:X:342:HIS:C	1:X:342:HIS:ND1	2.73	0.42
1:W:311:GLY:CA	1:Y:193:TYR:HA	2.50	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:2:431:ASP:O	1:2:432:TYR:HB2	2.19	0.42
1:J:289:SER:HA	1:3:188:VAL:HG23	115.62	0.42
1:I:188:VAL:HG23	1:3:289:SER:HA	158.51	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:289:SER:HA	1:J:188:VAL:HG23	2.01	0.42
1:B:351:ASN:HA	1:B:352:PRO:HD3	1.93	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:235:LYS:HB2	1:G:235:LYS:HE2	1.82	0.42
1:G:242:ASP:OD2	1:O:279:TYR:OH	148.44	0.42
1:G:92:LEU:HD23	1:G:92:LEU:HA	1.90	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: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
1:T:39:THR:HG21	1:T:262:SER:CB	2.46	0.42
1:S:317:ARG:H	1:U:376:LYS:HD3	1.85	0.42
1:T:317:ARG:H	1:U:376:LYS:HD3	95.44	0.42
1:W:105:GLN:OE1	1:X:290:VAL:HG11	49.18	0.42
1:W:290:VAL:HG11	1:Y:105:GLN:OE1	2.20	0.42
1:W:290:VAL:HG11	1:Z:105:GLN:OE1	86.26	0.42
1:Y:317:ARG:H	1:Z:376:LYS:HD3	60.00	0.42
1:Y:474:ILE:HD12	1:7:330:PHE:HZ	153.44	0.42
1:W:311:GLY:CA	1:Z:193:TYR:HA	61.76	0.42
1:1:177:VAL:HG22	1:1:485:VAL:HG12	2.02	0.41
1:K:289:SER:HA	1:1:188:VAL:HG23	2.01	0.41
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:X:188:VAL:HG23	1:5:289:SER:HA	2.01	0.41
1:6:364:ASP:OD1	1:6:367:VAL:HG12	2.20	0.41
1:A:290:VAL:HG11	1:6:105:GLN:OE1	161.20	0.41
1:A:380:ASP:OD1	1:A:381:TYR:N	2.45	0.41
1:F:289:SER:HA	1:T:188:VAL:HG23	151.51	0.41
1:I:39:THR:HG21	1:I:262:SER:CB	2.46	0.41
1:B:290:VAL:HG11	1:J:105:GLN:OE1	2.19	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:N:364:ASP:OD1	1:N:367:VAL:HG12	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:O:177:VAL:HG22	1:O:485:VAL:HG12	2.02	0.41
1:Q:290:VAL:HG11	1:R:105:GLN:OE1	49.23	0.41
1:S:200:ILE:HA	1:S:201:PRO:HD3	1.89	0.41
1:T:364:ASP:OD1	1:T:367:VAL:HG12	2.20	0.41
1:X:364:ASP:OD1	1:X:367:VAL:HG12	2.20	0.41
1:Y:242:ASP:OD2	1:7:279:TYR:OH	173.73	0.41
1:Z:92:LEU:HD23	1:Z:92:LEU:HA	1.90	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
1:5:342:HIS:ND1	1:5:342:HIS:C	2.73	0.41
1:Y:376:LYS:HD3	1:7:317:ARG:H	174.14	0.41
1:A:235:LYS:HE2	1:A:235:LYS:HB2	1.82	0.41
1:B:193:TYR:CZ	1:6:326:ARG:HD3	215.26	0.41
1:C:193:TYR:HA	1:M:311:GLY:CA	2.50	0.41
1:C:343:TYR:HA	1:C:348:PRO:HA	2.03	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:D:39:THR:HG21	1:D:262:SER:CB	2.46	0.41
1:E:351:ASN:HA	1:E:352:PRO:HD3	1.93	0.41
1:E:474:ILE:HD12	1:F:330:PHE:HZ	1.84	0.41
1:G:343:TYR:HA	1:G:348:PRO:HA	2.03	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:N:289:SER:HA	1:O:188:VAL:HG23	50.37	0.41
1:O:249:GLU:OE1	1:O:249:GLU:N	2.51	0.41
1:O:569:MET:HE2	1:P:459:PRO:HB3	53.47	0.41
1:Q:242:ASP:OD2	1:S:279:TYR:OH	100.49	0.41
1:Q:317:ARG:H	1:R:376:LYS:HD3	60.03	0.41
1:R:242:ASP:OD2	1:U:279:TYR:OH	2.30	0.41
1:V:392:ASP:OD1	1:V:393:GLN:N	2.50	0.41
1:H:290:VAL:HG11	1:W:105:GLN:OE1	2.19	0.41
1:W:431:ASP:O	1:W:432:TYR:HB2	2.19	0.41
1:Z:343:TYR:HA	1:Z:348:PRO:HA	2.03	0.41
1:I:193:TYR:CZ	1:3:326:ARG:HD3	166.72	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
1:6:235:LYS:HB2	1:6:235:LYS:HE2	1.82	0.41
1:Z:317:ARG:H	1:7:376:LYS:HD3	147.85	0.41
1:7:392:ASP:OD1	1:7:393:GLN:N	2.50	0.41
1:A:193:TYR:CZ	1:B:326:ARG:HD3	71.32	0.41
1:C:350:ILE:HG21	1:M:314:TRP:CD1	2.56	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:D:431:ASP:O	1:D:432:TYR:HB2	2.19	0.41
1:D:311:GLY:CA	1:E:193:TYR:HA	94.19	0.41
1:E:343:TYR:HA	1:E:348:PRO:HA	2.03	0.41
1:E:364:ASP:OD1	1:E:367:VAL:HG12	2.20	0.41
1:F:193:TYR:CZ	1:4:326:ARG:HD3	153.65	0.41
1:E:376:LYS:HD3	1:F:317:ARG:H	1.85	0.41
1:G:392:ASP:OD1	1:G:393:GLN:N	2.50	0.41
1:H:314:TRP:CD1	1:O:350:ILE:HG21	200.48	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	95.44	0.41
1:J:279:TYR:OH	1:L:242:ASP:OD2	2.30	0.41
1:L:343:TYR:HA	1:L:348:PRO:HA	2.03	0.41
1:M:350:ILE:HG21	1:2:314:TRP:CD1	2.55	0.41
1:O:290:VAL:HG11	1:P:105:GLN:OE1	59.68	0.41
1:D:188:VAL:HG23	1:P:289:SER:HA	2.01	0.41
1:P:343:TYR:HA	1:P:348:PRO:HA	2.03	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:S:343:TYR:HA	1:S:348:PRO:HA	2.03	0.41
1:F:326:ARG:HD3	1:T:193:TYR:CZ	153.19	0.41
1:U:392:ASP:OD1	1:U:393:GLN:N	2.50	0.41
1:V:342:HIS:ND1	1:V:342:HIS:C	2.73	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:J:326:ARG:HD3	1:3:193:TYR:CZ	117.68	0.41
1:3:66:HIS:HD2	1:3:206:LYS:NZ	2.19	0.41
1:X:474:ILE:HD12	1:5:330:PHE:HZ	1.85	0.41
1:7:177:VAL:HG22	1:7:485:VAL:HG12	2.02	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:314:TRP:CD1	1:D:350:ILE:HG21	91.85	0.41
1:D:317:ARG:H	1:N:376:LYS:HD3	1.85	0.41
1:D:380:ASP:OD1	1:D:381:TYR:N	2.45	0.41
1:D:290:VAL:HG11	1:E:105:GLN:OE1	101.41	0.41
1:E:459:PRO:HB3	1:F:569:MET:HE2	2.03	0.41
1:F:343:TYR:HA	1:F:348:PRO:HA	2.03	0.41
1:A:376:LYS:HD3	1:I:317:ARG:H	1.86	0.41
1:I:343:TYR:HA	1:I:348:PRO:HA	2.03	0.41
1:I:392:ASP:OD1	1:I:393:GLN:N	2.50	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:314:TRP:CD1	1:J:350:ILE:HG21	78.56	0.41
1:J:447:ILE:HG21	1:J:447:ILE:HD13	1.84	0.41
1:K:343:TYR:HA	1:K:348:PRO:HA	2.03	0.41
1:B:193:TYR:CZ	1:L:326:ARG:HD3	2.55	0.41
1:K:474:ILE:HD12	1:M:330:PHE:HZ	105.76	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	56.67	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:P:66:HIS:HD2	1:P:206:LYS:NZ	2.19	0.41
1:Q:188:VAL:HG23	1:S:289:SER:HA	94.37	0.41
1:Q:326:ARG:HD3	1:R:193:TYR:CZ	53.53	0.41
1:Q:342:HIS:C	1:Q:342:HIS:ND1	2.73	0.41
1:Q:376:LYS:HD3	1:S:317:ARG:H	90.38	0.41
1:R:193:TYR:CZ	1:U:326:ARG:HD3	2.55	0.41
1:T:343:TYR:HA	1:T:348:PRO:HA	2.03	0.41
1:T:177:VAL:HG22	1:T:485:VAL:HG12	2.02	0.41
1:V:200:ILE:HA	1:V:201:PRO:HD3	1.89	0.41
1:H:326:ARG:HD3	1:W:193:TYR:CZ	2.56	0.41
1:W:193:TYR:CZ	1:X:326:ARG:HD3	53.48	0.41
1:W:193:TYR:HA	1:X:311:GLY:CA	52.22	0.41
1:W:39:THR:HG21	1:W:262:SER:CB	2.46	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	124.85	0.41
1:Y:330:PHE:HZ	1:Z:474:ILE:HD12	56.67	0.41
1:K:474:ILE:HD12	1:O:330:PHE:HZ	1.85	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
1:1:66: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:V:311:GLY:CA	1:5:193:TYR:HA	2.50	0.41
1:7:200:ILE:HA	1:7:201:PRO:HD3	1.89	0.41
1:Y:193:TYR:CZ	1:7:326:ARG:HD3	166.72	0.41
1:A:39:THR:CG2	1:A:262:SER:HB3	2.46	0.41
1:C:317:ARG:H	1:D:376:LYS:HD3	90.36	0.41
1:D:314:TRP:CD1	1:E:350:ILE:HG21	91.84	0.41
1:E:66:HIS:HD2	1:E:206:LYS:NZ	2.19	0.41
1:F:177:VAL:HG22	1:F:485:VAL:HG12	2.02	0.41
1:F:66:HIS:HD2	1:F:206:LYS:NZ	2.19	0.41
1:H:317:ARG:H	1:O:376:LYS:HD3	201.30	0.41
1:J:343:TYR:HA	1:J:348:PRO:HA	2.03	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:376:LYS:HD3	1:M:317:ARG:H	109.23	0.41
1:K:39:THR:HG21	1:K:262:SER:CB	2.46	0.41
1:K:350:ILE:HG21	1:M:314:TRP:CD1	118.88	0.41
1:N:326:ARG:HD3	1:O:193:TYR:CZ	53.48	0.41
1:O:330:PHE:HZ	1:P:474:ILE:HD12	65.80	0.41
1:F:188:VAL:HG23	1:Q:288:GLY:O	2.20	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:U:317:ARG:H	1:V:376:LYS:HD3	59.98	0.41
1:U:326:ARG:HD3	1:V:193:TYR:CZ	53.48	0.41
1:V:193:TYR:HA	1:X:311:GLY:CA	2.50	0.41
1:V:92:LEU:HA	1:V:92:LEU:HD23	1.90	0.41
1:X:66:HIS:HD2	1:X:206:LYS:NZ	2.19	0.41
1:Y:326:ARG:HD3	1:Z:193:TYR:CZ	53.49	0.41
1:1:311:GLY:CA	1:0:193:TYR:HA	2.50	0.41
1:K:326:ARG:HD3	1:1:193:TYR:CZ	2.55	0.41
1:K:279:TYR:OH	1:1:242:ASP:OD2	2.29	0.41
1:C:314:TRP:CD1	1:2:350:ILE:HG21	2.56	0.41
1:I:376:LYS:HD3	1:3:317:ARG:H	174.14	0.41
1:3:343:TYR:HA	1:3:348:PRO:HA	2.03	0.41
1:J:317:ARG:H	1:3:376:LYS:HD3	109.68	0.41
1:T:326:ARG:HD3	1:4:193:TYR:CZ	2.55	0.41
1:F:376:LYS:HD3	1:4:317:ARG:H	171.33	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:V:326:ARG:HD3	1:5:193:TYR:CZ	2.55	0.41
1:5:235:LYS:HE2	1:5:235:LYS:HB2	1.82	0.41
1:X:350:ILE:HG21	1:5:314:TRP:CD1	2.56	0.41
1:A:343:TYR:HA	1:A:348:PRO:HA	2.03	0.41
1:D:350:ILE:HG21	1:P:314:TRP:CD1	2.56	0.41
1:F:317:ARG:H	1:T:376:LYS:HD3	147.87	0.41
1:G:200:ILE:HA	1:G:201:PRO:HD3	1.89	0.41
1:G:249:GLU:N	1:G:249:GLU:OE1	2.51	0.41
1:A:406:ASN:CG	1:G:342:HIS:HE1	2.17	0.41
1:H:330:PHE:HZ	1:O:474:ILE:HD12	175.27	0.41
1:I:326:ARG:HD3	1:J:193:TYR:CZ	71.32	0.41
1:B:406:ASN:CG	1:J:342:HIS:HE1	2.16	0.41
1:J:387:ASP:HA	1:J:388:PRO:HD3	1.84	0.41
1:J:66:HIS:HD2	1:J:206:LYS:NZ	2.19	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:P:387:ASP:HA	1:P:388:PRO:HD3	1.84	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:Q:350:ILE:HG21	1:S:314:TRP:CD1	91.86	0.41
1:Q:392:ASP:OD1	1:Q:393:GLN:N	2.50	0.41
1:S:330:PHE:HZ	1:U:474:ILE:HD12	1.84	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:W:350:ILE:HG21	1:X:314:TRP:CD1	65.94	0.41
1:X:193:TYR:HA	1:5:311:GLY:CA	2.51	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
1:0:177: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
1:1:380:ASP:OD1	1:1:381:TYR:N	2.45	0.41
1:I:474:ILE:HD12	1:3:330:PHE:HZ	153.45	0.41
1:4:66:HIS:HD2	1:4:206:LYS:NZ	2.19	0.41
1:A:342:HIS:HE1	1:I:406:ASN:CG	2.18	0.41
1:B:242:ASP:OD2	1:6:279:TYR:OH	208.02	0.41
1:B:343:TYR:HA	1:B:348:PRO:HA	2.03	0.41
1:C:350:ILE:HG21	1:E:314:TRP:CD1	128.61	0.41
1:D:314:TRP:CD1	1:N:350:ILE:HG21	2.56	0.41
1:D:326:ARG:HD3	1:E:193:TYR:CZ	93.69	0.41
1:D:392:ASP:OD1	1:D:393:GLN:N	2.50	0.41
1:H:249:GLU:N	1:H:249:GLU:OE1	2.51	0.41
1:K:193:TYR:CZ	1:0:326:ARG:HD3	2.55	0.41
1:K:193:TYR:HA	1:0:311:GLY:CA	2.50	0.41
1:B:350:ILE:HG21	1:L:314:TRP:CD1	2.56	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	32.24	0.41
1:N:453:ALA:O	1:N:472:PRO:HD2	2.21	0.41
1:O:326:ARG:HD3	1:P:193:TYR:CZ	71.31	0.41
1:N:317:ARG:H	1:O:376:LYS:HD3	59.98	0.41
1:E:435:THR:O	1:Q:336:TRP:HH2	2.03	0.41
1:R:314:TRP:CD1	1:S:350:ILE:HG21	2.56	0.41
1:R:343:TYR:HA	1:R:348:PRO:HA	2.03	0.41
1:R:453:ALA:O	1:R:472:PRO:HD2	2.21	0.41
1:R:177:VAL:HG22	1:R:485:VAL:HG12	2.02	0.41
1:U:343:TYR:HA	1:U:348:PRO:HA	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:314:TRP:CD1	1:W:350:ILE:HG21	2.56	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
1:2:66: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:350:ILE:HG21	1:B:314:TRP:CD1	78.56	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:K:242:ASP:OD2	1:M:279:TYR:OH	141.83	0.41
1:K:453:ALA:O	1:K:472:PRO:HD2	2.21	0.41
1:K:311:GLY:CA	1:L:193:TYR:HA	81.81	0.41
1:L:392:ASP:OD1	1:L:393:GLN:N	2.50	0.41
1:L:326:ARG:HD3	1:M:193:TYR:CZ	96.53	0.41
1:O:453:ALA:O	1:O:472:PRO:HD2	2.21	0.41
1:Q:314:TRP:CD1	1:R:350:ILE:HG21	65.98	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:T:350:ILE:HG21	1:V:314:TRP:CD1	104.57	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:Y:453:ALA:O	1:Y:472:PRO:HD2	2.21	0.41
1:0:343:TYR:HA	1:0:348:PRO:HA	2.03	0.41
1:1:528:GLN:NE2	1:1:530:ASN:O	2.49	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
1:4:364:ASP:OD1	1:4:367:VAL:HG12	2.20	0.41
1:A:406:ASN:CG	1:6:342:HIS:HE1	186.98	0.41
1:A:314:TRP:CD1	1:6:350:ILE:HG21	168.10	0.41
1:A:249:GLU:N	1:A:249:GLU:OE1	2.51	0.41
1:A:342:HIS:ND1	1:A:342:HIS:C	2.73	0.41
1:C:453:ALA:O	1:C:472:PRO:HD2	2.21	0.41
1:D:342:HIS:HE1	1:P:406:ASN:CG	2.16	0.41
1:G:193:TYR:HA	1:O:311:GLY:CA	189.46	0.41
1:G:326:ARG:HD3	1:H:193:TYR:CZ	53.49	0.41
1:G:364:ASP:OD1	1:G:367:VAL:HG12	2.20	0.41
1:H:326:ARG:HD3	1:O:193:TYR:CZ	186.54	0.41
1:H:343:TYR:HA	1:H:348:PRO:HA	2.03	0.41
1:H:66:HIS:HD2	1:H:206:LYS:NZ	2.19	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:314:TRP:CD1	1:I:350:ILE:HG21	2.56	0.41
1:I:66:HIS:HD2	1:I:206:LYS:NZ	2.19	0.41
1:J:235:LYS:HE2	1:J:235:LYS:HB2	1.82	0.41
1:C:193:TYR:CZ	1:M:326:ARG:HD3	2.55	0.41
1:K:193:TYR:CZ	1:M:326:ARG:HD3	115.61	0.41
1:M:66:HIS:HD2	1:M:206:LYS:NZ	2.19	0.41
1:O:317:ARG:H	1:P:376:LYS:HD3	95.44	0.41
1:Q:342:HIS:HE1	1:S:406:ASN:CG	93.33	0.41
1:S:453:ALA:O	1:S:472:PRO:HD2	2.21	0.41
1:S:177:VAL:HG22	1:S:485:VAL:HG12	2.02	0.41
1:T:326:ARG:HD3	1:U:193:TYR:CZ	71.32	0.41
1:F:330:PHE:HZ	1:T:474:ILE:HD12	124.87	0.41
1:T:66:HIS:HD2	1:T:206:LYS:NZ	2.19	0.41
1:U:200:ILE:HA	1:U:201:PRO:HD3	1.89	0.41
1:V:376:LYS:HD3	1:X:317:ARG:H	1.86	0.41
1:V:287:THR:CG2	1:V:569:MET:HG2	2.46	0.41
1:W:326:ARG:HD3	1:Z:193:TYR:CZ	70.45	0.41
1:X:343:TYR:HA	1:X:348:PRO:HA	2.03	0.41
1:Z:453:ALA:O	1:Z:472:PRO:HD2	2.21	0.41
1:0:200:ILE:HA	1:0:201:PRO:HD3	1.89	0.41
1:1:317:ARG:H	1:0:376:LYS:HD3	1.86	0.41
1:0:431:ASP:O	1:0:432:TYR:HB2	2.19	0.41
1:2:177:VAL:HG22	1:2:485:VAL:HG12	2.02	0.41
1:I:350:ILE:HG21	1:3:314:TRP:CD1	176.91	0.41
1:3:453:ALA:O	1:3:472:PRO:HD2	2.21	0.41
1:4:447:ILE:HG21	1:4:447:ILE:HD13	1.84	0.41
1:4:177:VAL:HG22	1:4:485:VAL:HG12	2.02	0.41
1:A:311:GLY:CA	1:6:193:TYR:HA	149.75	0.41
1:A:317:ARG:H	1:6:376:LYS:HD3	160.07	0.41
1:7:66:HIS:HD2	1:7:206:LYS:NZ	2.19	0.41
1:A:326:ARG:HD3	1:6:193:TYR:CZ	158.48	0.41
1:C:317:ARG:H	1:2:376:LYS:HD3	1.85	0.41
1:C:376:LYS:HD3	1:E:317:ARG:H	138.85	0.41
1:C:66:HIS:HD2	1:C:206:LYS:NZ	2.19	0.41
1:D:66:HIS:HD2	1:D:206:LYS:NZ	2.19	0.41
1:E:342:HIS:C	1:E:342:HIS:ND1	2.73	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:453:ALA:O	1:G:472:PRO:HD2	2.21	0.41
1:H:235:LYS:HE2	1:H:235:LYS:HB2	1.82	0.41
1:K:66:HIS:HD2	1:K:206:LYS:NZ	2.19	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:314:TRP:CD1	1:L:350:ILE:HG21	2.56	0.41
1:L:453:ALA:O	1:L:472:PRO:HD2	2.21	0.41
1:M:249:GLU:OE1	1:M:249:GLU:N	2.51	0.41
1:P:249:GLU:N	1:P:249:GLU:OE1	2.51	0.41
1:E:311:GLY:CA	1:Q:193:TYR:HA	2.51	0.41
1:V:364:ASP:OD1	1:V:367:VAL:HG12	2.20	0.41
1:X:193:TYR:CZ	1:Z:326:ARG:HD3	86.54	0.41
1:Y:314:TRP:CD1	1:Z:350:ILE:HG21	65.95	0.41
1:O:342:HIS:C	1:O:342:HIS:ND1	2.73	0.41
1:O:364:ASP:OD1	1:O:367:VAL:HG12	2.20	0.41
1:1:453:ALA:O	1:1:472:PRO:HD2	2.21	0.41
1:3:342:HIS:ND1	1:3:342:HIS:C	2.73	0.41
1:4:453:ALA:O	1:4:472:PRO:HD2	2.21	0.41
1:6:342:HIS:C	1:6:342:HIS:ND1	2.73	0.41
1:E:257:LEU:HD22	1:E:261:ASP:HB3	2.04	0.41
1:F:314:TRP:CD1	1:T:350:ILE:HG21	146.49	0.41
1:G:66:HIS:HD2	1:G:206:LYS:NZ	2.19	0.41
1:H:193:TYR:CZ	1:Y:326:ARG:HD3	2.56	0.41
1:H:142:LEU:HD13	1:H:517:LEU:HB3	2.04	0.41
1:I:73:GLU:OE2	1:I:486:LYS:NZ	2.50	0.41
1:B:326:ARG:HD3	1:J:193:TYR:CZ	2.55	0.41
1:J:257:LEU:HD22	1:J:261:ASP:HB3	2.03	0.41
1:K:350:ILE:HG21	1:O:314:TRP:CD1	2.56	0.41
1:K:447:ILE:HG21	1:K:447:ILE:HD13	1.84	0.41
1:L:66:HIS:HD2	1:L:206:LYS:NZ	2.19	0.41
1:M:193:TYR:CZ	1:2:326:ARG:HD3	2.55	0.41
1:N:311:GLY:CA	1:O:193:TYR:HA	52.22	0.41
1:O:66:HIS:HD2	1:O:206:LYS:NZ	2.19	0.41
1:P:257:LEU:HD22	1:P:261:ASP:HB3	2.04	0.41
1:S:249:GLU:OE1	1:S:249:GLU:N	2.51	0.41
1:U:66:HIS:HD2	1:U:206:LYS:NZ	2.19	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:O:142:LEU:HD13	1:O:517:LEU:HB3	2.04	0.40
1:K:376:LYS:HD3	1:O:317:ARG:H	1.86	0.40
1:O:392:ASP:OD1	1:O:393:GLN:N	2.50	0.40
1:K:406:ASN:CG	1:1:342:HIS:HE1	2.16	0.40
1:2:73:GLU:OE2	1:2:486:LYS:NZ	2.51	0.40
1:J:314:TRP:CD1	1:3:350:ILE:HG21	118.65	0.40
1:4:257:LEU:HD22	1:4:261:ASP:HB3	2.04	0.40
1:5:453:ALA:O	1:5:472:PRO:HD2	2.21	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:350:ILE:HG21	1:6:314:TRP:CD1	221.22	0.40
1:6:453:ALA:O	1:6:472:PRO:HD2	2.21	0.40
1:Y:350:ILE:HG21	1:7:314:TRP:CD1	176.90	0.40
1:A:290:VAL:HG11	1:G:105:GLN:OE1	2.21	0.40
1:B:193:TYR:HA	1:6:311:GLY:CA	215.19	0.40
1:C:326:ARG:HD3	1:D:193:TYR:CZ	93.68	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:350:ILE:HG21	1:4:314:TRP:CD1	153.31	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:M:142:LEU:HD13	1:M:517:LEU:HB3	2.04	0.40
1:N:351:ASN:HA	1:N:352:PRO:HD3	1.93	0.40
1:H:279:TYR:OH	1:O:242:ASP:OD2	189.45	0.40
1:Q:257:LEU:HD22	1:Q:261:ASP:HB3	2.03	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:T:453:ALA:O	1:T:472:PRO:HD2	2.21	0.40
1:U:314:TRP:CD1	1:V:350:ILE:HG21	65.94	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:Y:193:TYR:HA	1:7:311:GLY:CA	162.55	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	153.17	0.40
1:0:257:LEU:HD22	1:0:261:ASP:HB3	2.04	0.40
1:0:66:HIS:HD2	1:0:206:LYS:NZ	2.19	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
1:7:447:ILE:HD13	1:7:447:ILE:HG21	1.84	0.40
1:A:142:LEU:HD13	1:A:517:LEU:HB3	2.04	0.40
1:A:75:TYR:OH	1:A:249:GLU:OE1	2.27	0.40
1:A:453:ALA:O	1:A:472:PRO:HD2	2.21	0.40
1:B:453:ALA:O	1:B:472:PRO:HD2	2.21	0.40
1:C:193:TYR:HA	1:E:311:GLY:CA	122.89	0.40
1:C:447:ILE:HG21	1:C:447:ILE:HD13	1.84	0.40
1:C:142:LEU:HD13	1:C:517:LEU:HB3	2.04	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:257:LEU:HD11	1:E:263:TRP:HB2	2.04	0.40
1:G:193:TYR:CZ	1:O:326:ARG:HD3	183.75	0.40
1:G:326:ARG:HD3	1:I:193:TYR:CZ	2.56	0.40
1:G:350:ILE:HG21	1:O:314:TRP:CD1	191.78	0.40
1:H:257:LEU:HD11	1:H:263:TRP:HB2	2.04	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:K:116:ASN:OD1	1:K:454:ILE:N	2.53	0.40
1:K:351:ASN:HA	1:K:352:PRO:HD3	1.93	0.40
1:J:311:GLY:CA	1:L:193:TYR:HA	2.50	0.40
1:M:257:LEU:HD11	1:M:263:TRP:HB2	2.04	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:H:311:GLY:CA	1:O:193:TYR:HA	182.91	0.40
1:P:257:LEU:HD11	1:P:263:TRP:HB2	2.04	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: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:447:ILE:HD13	1:V:447:ILE:HG21	1.84	0.40
1:W:364:ASP:OD1	1:W:367:VAL:HG12	2.20	0.40
1:Y:257:LEU:HD22	1:Y:261:ASP:HB3	2.04	0.40
1:W:314:TRP:CD1	1:Y:350:ILE:HG21	2.56	0.40
1:Y:142:LEU:HD13	1:Y:517:LEU:HB3	2.04	0.40
1:W:314:TRP:CD1	1:Z:350:ILE:HG21	65.24	0.40
1:1:342:HIS:C	1:1:342:HIS:ND1	2.73	0.40
1:1:343:TYR:HA	1:1:348:PRO:HA	2.03	0.40
1:C:311:GLY:CA	1:2:193:TYR:HA	2.51	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
1:7:142: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:B:177:VAL:HG22	1:B:485:VAL:HG12	2.02	0.40
1:B:376:LYS:HD3	1:6:317:ARG:H	227.53	0.40
1:C:257:LEU:HD22	1:C:261:ASP:HB3	2.04	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:K:149:ILE:O	1:K:259:THR:HG23	2.22	0.40
1:K:242:ASP:OD2	1:O:279:TYR:OH	2.30	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:257:LEU:HD11	1:K:263:TRP:HB2	2.04	0.40
1:K:326:ARG:HD3	1:L:193:TYR:CZ	71.32	0.40
1:L:257:LEU:HD11	1:L:263:TRP:HB2	2.04	0.40
1:K:314:TRP:CD1	1:L:350:ILE:HG21	78.56	0.40
1:J:317:ARG:H	1:L:376:LYS:HD3	1.85	0.40
1:M:392:ASP:OD1	1:M:393:GLN:N	2.50	0.40
1:N:257:LEU:HD22	1:N:261:ASP:HB3	2.03	0.40
1:N:149:ILE:O	1:N:259:THR:HG23	2.22	0.40
1:N:257:LEU:HD11	1:N:263:TRP:HB2	2.04	0.40
1:O:314:TRP:CD1	1:P:350:ILE:HG21	78.56	0.40
1:N:314:TRP:CD1	1:O:350:ILE:HG21	65.94	0.40
1:N:376:LYS:HD3	1:P:317:ARG:H	48.22	0.40
1:Q:149:ILE:O	1:Q:259:THR:HG23	2.22	0.40
1:E:314:TRP:CD1	1:Q:350:ILE:HG21	2.56	0.40
1:Q:66:HIS:HD2	1:Q:206:LYS:NZ	2.19	0.40
1:R:257:LEU:HD11	1:R:263:TRP:HB2	2.04	0.40
1:T:128:GLN:O	1:T:132:THR:HG23	2.22	0.40
1:T:257:LEU:HD22	1:T:261:ASP:HB3	2.03	0.40
1:U:142:LEU:HD13	1:U:517:LEU:HB3	2.04	0.40
1:S:311:GLY:CA	1:U:193:TYR:HA	2.51	0.40
1:V:66:HIS:HD2	1:V:206:LYS:NZ	2.19	0.40
1:T:193:TYR:CZ	1:V:326:ARG:HD3	86.54	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:X:342:HIS:HE1	1:5:406:ASN:CG	2.16	0.40
1:Y:257:LEU:HD11	1:Y:263:TRP:HB2	2.04	0.40
1:Y:279:TYR:OH	1:Z:242:ASP:OD2	62.85	0.40
1:O:447:ILE:HG21	1:O:447:ILE:HD13	1.84	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
1:5:257:LEU:HD22	1:5:261:ASP:HB3	2.04	0.40
1:Z:311:GLY:CA	1:7:193:TYR:HA	151.41	0.40
1:7:149:ILE:O	1:7:259:THR:HG23	2.22	0.40
1:B:142:LEU:HD13	1:B:517:LEU:HB3	2.04	0.40
1:B:257:LEU:HD22	1:B:261:ASP:HB3	2.04	0.40
1:C:193:TYR:CZ	1:E:326:ARG:HD3	116.20	0.40
1:C:73:GLU:OE2	1:C:486:LYS:NZ	2.50	0.40
1:D:317:ARG:H	1:E:376:LYS:HD3	90.36	0.40
1:F:149:ILE:O	1:F:259:THR:HG23	2.22	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:350:ILE:HG21	1:F:314:TRP:CD1	2.56	0.40
1:G:149:ILE:O	1:G:259:THR:HG23	2.22	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:A:350:ILE:HG21	1:I:314:TRP:CD1	2.55	0.40
1:K:193:TYR:HA	1:M:311:GLY:CA	107.61	0.40
1:K:257:LEU:HD22	1:K:261:ASP:HB3	2.04	0.40
1:B:376:LYS:HD3	1:L:317:ARG:H	1.85	0.40
1:N:116:ASN:OD1	1:N:454:ILE:N	2.53	0.40
1:O:116:ASN:OD1	1:O:454:ILE:N	2.53	0.40
1:P:453:ALA:O	1:P:472:PRO:HD2	2.21	0.40
1:P:142:LEU:HD13	1:P:517:LEU:HB3	2.04	0.40
1:S:149:ILE:O	1:S:259:THR:HG23	2.22	0.40
1:S:142:LEU:HD13	1:S:517:LEU:HB3	2.04	0.40
1:R:350:ILE:HG21	1:U:314:TRP:CD1	2.56	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:W:149:ILE:O	1:W:259:THR:HG23	2.22	0.40
1:Z:149:ILE:O	1:Z:259:THR:HG23	2.22	0.40
1:O:453:ALA:O	1:O:472:PRO:HD2	2.21	0.40
1:O:92:LEU:HA	1:O:92:LEU:HD23	1.90	0.40
1:C:326:ARG:HD3	1:2:193:TYR:CZ	2.55	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:314:TRP:CD1	1:G:350:ILE:HG21	2.56	0.40
1:B:149:ILE:O	1:B:259:THR:HG23	2.22	0.40
1:B:313:GLN:CB	1:B:317:ARG:HB2	2.52	0.40
1:C:257:LEU:HD11	1:C:263:TRP:HB2	2.04	0.40
1:D:343:TYR:HA	1:D:348:PRO:HA	2.03	0.40
1:D:453:ALA:O	1:D:472:PRO:HD2	2.21	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: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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:128:GLN:O	1:L:132:THR:HG23	2.22	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:M:235:LYS:HB2	1:M:235:LYS:HE2	1.82	0.40
1:C:376:LYS:HD3	1:M:317:ARG:H	1.85	0.40
1:M:453:ALA:O	1:M:472:PRO:HD2	2.21	0.40
1:N:249:GLU:N	1:N:249:GLU:OE1	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:128:GLN:O	1:P:132:THR:HG23	2.22	0.40
1:P:149:ILE:O	1:P:259:THR:HG23	2.22	0.40
1:P:313:GLN:CB	1:P:317:ARG:HB2	2.52	0.40
1:Q:116:ASN:OD1	1:Q:454:ILE:N	2.53	0.40
1:R:249:GLU:N	1:R:249:GLU:OE1	2.51	0.40
1:U:128:GLN:O	1:U:132:THR:HG23	2.22	0.40
1:U:149:ILE:O	1:U:259:THR:HG23	2.22	0.40
1:X:257:LEU:HD11	1:X:263:TRP:HB2	2.04	0.40
1:Y:351:ASN:HA	1:Y:352:PRO:HD3	1.93	0.40
1:Y:447:ILE:HD13	1:Y:447:ILE:HG21	1.84	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%)	51	81
1	1	535/537 (100%)	513 (96%)	21 (4%)	1 (0%)	51	81
1	2	535/537 (100%)	513 (96%)	21 (4%)	1 (0%)	51	81
1	3	535/537 (100%)	513 (96%)	21 (4%)	1 (0%)	51	81
1	4	535/537 (100%)	513 (96%)	21 (4%)	1 (0%)	51	81

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	5	535/537 (100%)	513 (96%)	21 (4%)	1 (0%)	51	81
1	6	535/537 (100%)	513 (96%)	21 (4%)	1 (0%)	51	81
1	7	535/537 (100%)	513 (96%)	21 (4%)	1 (0%)	51	81
1	A	535/537 (100%)	513 (96%)	21 (4%)	1 (0%)	51	81
1	B	535/537 (100%)	513 (96%)	21 (4%)	1 (0%)	51	81
1	C	535/537 (100%)	513 (96%)	21 (4%)	1 (0%)	51	81
1	D	535/537 (100%)	513 (96%)	21 (4%)	1 (0%)	51	81
1	E	535/537 (100%)	513 (96%)	21 (4%)	1 (0%)	51	81
1	F	535/537 (100%)	513 (96%)	21 (4%)	1 (0%)	51	81
1	G	535/537 (100%)	513 (96%)	21 (4%)	1 (0%)	51	81
1	H	535/537 (100%)	513 (96%)	21 (4%)	1 (0%)	51	81
1	I	535/537 (100%)	513 (96%)	21 (4%)	1 (0%)	51	81
1	J	535/537 (100%)	513 (96%)	21 (4%)	1 (0%)	51	81
1	K	535/537 (100%)	513 (96%)	21 (4%)	1 (0%)	51	81
1	L	535/537 (100%)	513 (96%)	21 (4%)	1 (0%)	51	81
1	M	535/537 (100%)	513 (96%)	21 (4%)	1 (0%)	51	81
1	N	535/537 (100%)	513 (96%)	21 (4%)	1 (0%)	51	81
1	O	535/537 (100%)	513 (96%)	21 (4%)	1 (0%)	51	81
1	P	535/537 (100%)	513 (96%)	21 (4%)	1 (0%)	51	81
1	Q	535/537 (100%)	513 (96%)	21 (4%)	1 (0%)	51	81
1	R	535/537 (100%)	513 (96%)	21 (4%)	1 (0%)	51	81
1	S	535/537 (100%)	513 (96%)	21 (4%)	1 (0%)	51	81
1	T	535/537 (100%)	513 (96%)	21 (4%)	1 (0%)	51	81
1	U	535/537 (100%)	513 (96%)	21 (4%)	1 (0%)	51	81
1	V	535/537 (100%)	513 (96%)	21 (4%)	1 (0%)	51	81
1	W	535/537 (100%)	513 (96%)	21 (4%)	1 (0%)	51	81
1	X	535/537 (100%)	513 (96%)	21 (4%)	1 (0%)	51	81
1	Y	535/537 (100%)	513 (96%)	21 (4%)	1 (0%)	51	81
1	Z	535/537 (100%)	513 (96%)	21 (4%)	1 (0%)	51	81
1	a	535/537 (100%)	513 (96%)	21 (4%)	1 (0%)	51	81
1	b	535/537 (100%)	513 (96%)	21 (4%)	1 (0%)	51	81

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	c	535/537 (100%)	513 (96%)	21 (4%)	1 (0%)	51	81
1	d	535/537 (100%)	513 (96%)	21 (4%)	1 (0%)	51	81
1	e	535/537 (100%)	513 (96%)	21 (4%)	1 (0%)	51	81
1	f	535/537 (100%)	513 (96%)	21 (4%)	1 (0%)	51	81
1	g	535/537 (100%)	513 (96%)	21 (4%)	1 (0%)	51	81
1	h	535/537 (100%)	513 (96%)	21 (4%)	1 (0%)	51	81
1	i	535/537 (100%)	513 (96%)	21 (4%)	1 (0%)	51	81
1	j	535/537 (100%)	513 (96%)	21 (4%)	1 (0%)	51	81
1	k	535/537 (100%)	513 (96%)	21 (4%)	1 (0%)	51	81
1	l	535/537 (100%)	513 (96%)	21 (4%)	1 (0%)	51	81
1	m	535/537 (100%)	513 (96%)	21 (4%)	1 (0%)	51	81
1	n	535/537 (100%)	513 (96%)	21 (4%)	1 (0%)	51	81
1	o	535/537 (100%)	513 (96%)	21 (4%)	1 (0%)	51	81
1	p	535/537 (100%)	513 (96%)	21 (4%)	1 (0%)	51	81
1	q	535/537 (100%)	513 (96%)	21 (4%)	1 (0%)	51	81
1	r	535/537 (100%)	513 (96%)	21 (4%)	1 (0%)	51	81
1	s	535/537 (100%)	513 (96%)	21 (4%)	1 (0%)	51	81
1	t	535/537 (100%)	513 (96%)	21 (4%)	1 (0%)	51	81
1	u	535/537 (100%)	513 (96%)	21 (4%)	1 (0%)	51	81
1	v	535/537 (100%)	513 (96%)	21 (4%)	1 (0%)	51	81
1	w	535/537 (100%)	513 (96%)	21 (4%)	1 (0%)	51	81
1	x	535/537 (100%)	513 (96%)	21 (4%)	1 (0%)	51	81
1	y	535/537 (100%)	513 (96%)	21 (4%)	1 (0%)	51	81
1	z	535/537 (100%)	513 (96%)	21 (4%)	1 (0%)	51	81
All	All	32100/32220 (100%)	30780 (96%)	1260 (4%)	60 (0%)	54	81

All (60) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	A	188	VAL
1	B	188	VAL
1	C	188	VAL
1	D	188	VAL
1	E	188	VAL

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Mol	Chain	Res	Type
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
1	l	188	VAL
1	m	188	VAL
1	n	188	VAL
1	o	188	VAL

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Mol	Chain	Res	Type
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 ⓘ

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

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

Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
1	0	473/473 (100%)	470 (99%)	3 (1%)	89	96
1	1	473/473 (100%)	470 (99%)	3 (1%)	89	96
1	2	473/473 (100%)	470 (99%)	3 (1%)	89	96
1	3	473/473 (100%)	470 (99%)	3 (1%)	89	96
1	4	473/473 (100%)	470 (99%)	3 (1%)	89	96
1	5	473/473 (100%)	470 (99%)	3 (1%)	89	96
1	6	473/473 (100%)	470 (99%)	3 (1%)	89	96
1	7	473/473 (100%)	470 (99%)	3 (1%)	89	96
1	A	473/473 (100%)	470 (99%)	3 (1%)	89	96
1	B	473/473 (100%)	470 (99%)	3 (1%)	89	96
1	C	473/473 (100%)	470 (99%)	3 (1%)	89	96
1	D	473/473 (100%)	470 (99%)	3 (1%)	89	96
1	E	473/473 (100%)	470 (99%)	3 (1%)	89	96
1	F	473/473 (100%)	470 (99%)	3 (1%)	89	96

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
1	G	473/473 (100%)	470 (99%)	3 (1%)	89	96
1	H	473/473 (100%)	470 (99%)	3 (1%)	89	96
1	I	473/473 (100%)	470 (99%)	3 (1%)	89	96
1	J	473/473 (100%)	470 (99%)	3 (1%)	89	96
1	K	473/473 (100%)	470 (99%)	3 (1%)	89	96
1	L	473/473 (100%)	470 (99%)	3 (1%)	89	96
1	M	473/473 (100%)	470 (99%)	3 (1%)	89	96
1	N	473/473 (100%)	470 (99%)	3 (1%)	89	96
1	O	473/473 (100%)	470 (99%)	3 (1%)	89	96
1	P	473/473 (100%)	470 (99%)	3 (1%)	89	96
1	Q	473/473 (100%)	470 (99%)	3 (1%)	89	96
1	R	473/473 (100%)	470 (99%)	3 (1%)	89	96
1	S	473/473 (100%)	470 (99%)	3 (1%)	89	96
1	T	473/473 (100%)	470 (99%)	3 (1%)	89	96
1	U	473/473 (100%)	470 (99%)	3 (1%)	89	96
1	V	473/473 (100%)	470 (99%)	3 (1%)	89	96
1	W	473/473 (100%)	470 (99%)	3 (1%)	89	96
1	X	473/473 (100%)	470 (99%)	3 (1%)	89	96
1	Y	473/473 (100%)	470 (99%)	3 (1%)	89	96
1	Z	473/473 (100%)	470 (99%)	3 (1%)	89	96
1	a	473/473 (100%)	470 (99%)	3 (1%)	89	96
1	b	473/473 (100%)	470 (99%)	3 (1%)	89	96
1	c	473/473 (100%)	470 (99%)	3 (1%)	89	96
1	d	473/473 (100%)	470 (99%)	3 (1%)	89	96
1	e	473/473 (100%)	470 (99%)	3 (1%)	89	96
1	f	473/473 (100%)	470 (99%)	3 (1%)	89	96
1	g	473/473 (100%)	470 (99%)	3 (1%)	89	96
1	h	473/473 (100%)	470 (99%)	3 (1%)	89	96
1	i	473/473 (100%)	470 (99%)	3 (1%)	89	96
1	j	473/473 (100%)	470 (99%)	3 (1%)	89	96
1	k	473/473 (100%)	470 (99%)	3 (1%)	89	96

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
1	l	473/473 (100%)	470 (99%)	3 (1%)	89	96
1	m	473/473 (100%)	470 (99%)	3 (1%)	89	96
1	n	473/473 (100%)	470 (99%)	3 (1%)	89	96
1	o	473/473 (100%)	470 (99%)	3 (1%)	89	96
1	p	473/473 (100%)	470 (99%)	3 (1%)	89	96
1	q	473/473 (100%)	470 (99%)	3 (1%)	89	96
1	r	473/473 (100%)	470 (99%)	3 (1%)	89	96
1	s	473/473 (100%)	470 (99%)	3 (1%)	89	96
1	t	473/473 (100%)	470 (99%)	3 (1%)	89	96
1	u	473/473 (100%)	470 (99%)	3 (1%)	89	96
1	v	473/473 (100%)	470 (99%)	3 (1%)	89	96
1	w	473/473 (100%)	470 (99%)	3 (1%)	89	96
1	x	473/473 (100%)	470 (99%)	3 (1%)	89	96
1	y	473/473 (100%)	470 (99%)	3 (1%)	89	96
1	z	473/473 (100%)	470 (99%)	3 (1%)	89	96
All	All	28380/28380 (100%)	28200 (99%)	180 (1%)	89	96

All (180) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	239	ARG
1	A	363	THR
1	A	387	ASP
1	B	239	ARG
1	B	363	THR
1	B	387	ASP
1	C	239	ARG
1	C	363	THR
1	C	387	ASP
1	D	239	ARG
1	D	363	THR
1	D	387	ASP
1	E	239	ARG
1	E	363	THR
1	E	387	ASP
1	F	239	ARG
1	F	363	THR

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Mol	Chain	Res	Type
1	F	387	ASP
1	G	239	ARG
1	G	363	THR
1	G	387	ASP
1	H	239	ARG
1	H	363	THR
1	H	387	ASP
1	I	239	ARG
1	I	363	THR
1	I	387	ASP
1	J	239	ARG
1	J	363	THR
1	J	387	ASP
1	K	239	ARG
1	K	363	THR
1	K	387	ASP
1	L	239	ARG
1	L	363	THR
1	L	387	ASP
1	M	239	ARG
1	M	363	THR
1	M	387	ASP
1	N	239	ARG
1	N	363	THR
1	N	387	ASP
1	O	239	ARG
1	O	363	THR
1	O	387	ASP
1	P	239	ARG
1	P	363	THR
1	P	387	ASP
1	Q	239	ARG
1	Q	363	THR
1	Q	387	ASP
1	R	239	ARG
1	R	363	THR
1	R	387	ASP
1	S	239	ARG
1	S	363	THR
1	S	387	ASP
1	T	239	ARG
1	T	363	THR

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Mol	Chain	Res	Type
1	T	387	ASP
1	U	239	ARG
1	U	363	THR
1	U	387	ASP
1	V	239	ARG
1	V	363	THR
1	V	387	ASP
1	W	239	ARG
1	W	363	THR
1	W	387	ASP
1	X	239	ARG
1	X	363	THR
1	X	387	ASP
1	Y	239	ARG
1	Y	363	THR
1	Y	387	ASP
1	Z	239	ARG
1	Z	363	THR
1	Z	387	ASP
1	1	239	ARG
1	1	363	THR
1	1	387	ASP
1	2	239	ARG
1	2	363	THR
1	2	387	ASP
1	3	239	ARG
1	3	363	THR
1	3	387	ASP
1	4	239	ARG
1	4	363	THR
1	4	387	ASP
1	5	239	ARG
1	5	363	THR
1	5	387	ASP
1	6	239	ARG
1	6	363	THR
1	6	387	ASP
1	a	239	ARG
1	a	363	THR
1	a	387	ASP
1	b	239	ARG
1	b	363	THR

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Mol	Chain	Res	Type
1	b	387	ASP
1	c	239	ARG
1	c	363	THR
1	c	387	ASP
1	d	239	ARG
1	d	363	THR
1	d	387	ASP
1	e	239	ARG
1	e	363	THR
1	e	387	ASP
1	f	239	ARG
1	f	363	THR
1	f	387	ASP
1	g	239	ARG
1	g	363	THR
1	g	387	ASP
1	h	239	ARG
1	h	363	THR
1	h	387	ASP
1	i	239	ARG
1	i	363	THR
1	i	387	ASP
1	j	239	ARG
1	j	363	THR
1	j	387	ASP
1	k	239	ARG
1	k	363	THR
1	k	387	ASP
1	l	239	ARG
1	l	363	THR
1	l	387	ASP
1	m	239	ARG
1	m	363	THR
1	m	387	ASP
1	n	239	ARG
1	n	363	THR
1	n	387	ASP
1	o	239	ARG
1	o	363	THR
1	o	387	ASP
1	p	239	ARG
1	p	363	THR

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Mol	Chain	Res	Type
1	p	387	ASP
1	q	239	ARG
1	q	363	THR
1	q	387	ASP
1	r	239	ARG
1	r	363	THR
1	r	387	ASP
1	s	239	ARG
1	s	363	THR
1	s	387	ASP
1	t	239	ARG
1	t	363	THR
1	t	387	ASP
1	u	239	ARG
1	u	363	THR
1	u	387	ASP
1	v	239	ARG
1	v	363	THR
1	v	387	ASP
1	w	239	ARG
1	w	363	THR
1	w	387	ASP
1	x	239	ARG
1	x	363	THR
1	x	387	ASP
1	y	239	ARG
1	y	363	THR
1	y	387	ASP
1	z	239	ARG
1	z	363	THR
1	z	387	ASP
1	7	239	ARG
1	7	363	THR
1	7	387	ASP
1	0	239	ARG
1	0	363	THR
1	0	387	ASP

Some sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (998) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	37	HIS

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Mol	Chain	Res	Type
1	A	93	GLN
1	A	103	HIS
1	A	105	GLN
1	A	129	GLN
1	A	148	ASN
1	A	176	GLN
1	A	280	HIS
1	A	286	HIS
1	A	291	HIS
1	A	305	ASN
1	A	331	HIS
1	A	342	HIS
1	A	393	GLN
1	A	448	GLN
1	A	470	HIS
1	B	37	HIS
1	B	93	GLN
1	B	103	HIS
1	B	105	GLN
1	B	129	GLN
1	B	148	ASN
1	B	176	GLN
1	B	244	GLN
1	B	280	HIS
1	B	286	HIS
1	B	291	HIS
1	B	305	ASN
1	B	331	HIS
1	B	342	HIS
1	B	393	GLN
1	B	448	GLN
1	B	470	HIS
1	C	37	HIS
1	C	93	GLN
1	C	103	HIS
1	C	105	GLN
1	C	129	GLN
1	C	148	ASN
1	C	176	GLN
1	C	244	GLN
1	C	280	HIS
1	C	286	HIS

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Mol	Chain	Res	Type
1	C	291	HIS
1	C	305	ASN
1	C	331	HIS
1	C	342	HIS
1	C	393	GLN
1	C	470	HIS
1	D	37	HIS
1	D	93	GLN
1	D	103	HIS
1	D	105	GLN
1	D	129	GLN
1	D	148	ASN
1	D	176	GLN
1	D	244	GLN
1	D	280	HIS
1	D	286	HIS
1	D	291	HIS
1	D	305	ASN
1	D	331	HIS
1	D	342	HIS
1	D	393	GLN
1	D	413	HIS
1	D	470	HIS
1	E	37	HIS
1	E	93	GLN
1	E	103	HIS
1	E	105	GLN
1	E	129	GLN
1	E	148	ASN
1	E	176	GLN
1	E	244	GLN
1	E	280	HIS
1	E	286	HIS
1	E	291	HIS
1	E	305	ASN
1	E	331	HIS
1	E	342	HIS
1	E	393	GLN
1	E	470	HIS
1	F	37	HIS
1	F	93	GLN
1	F	103	HIS

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Mol	Chain	Res	Type
1	F	105	GLN
1	F	129	GLN
1	F	148	ASN
1	F	176	GLN
1	F	244	GLN
1	F	280	HIS
1	F	286	HIS
1	F	291	HIS
1	F	305	ASN
1	F	331	HIS
1	F	342	HIS
1	F	393	GLN
1	F	413	HIS
1	G	37	HIS
1	G	93	GLN
1	G	103	HIS
1	G	105	GLN
1	G	129	GLN
1	G	148	ASN
1	G	176	GLN
1	G	244	GLN
1	G	280	HIS
1	G	286	HIS
1	G	291	HIS
1	G	305	ASN
1	G	331	HIS
1	G	342	HIS
1	G	393	GLN
1	G	470	HIS
1	H	37	HIS
1	H	93	GLN
1	H	103	HIS
1	H	105	GLN
1	H	129	GLN
1	H	148	ASN
1	H	176	GLN
1	H	244	GLN
1	H	280	HIS
1	H	286	HIS
1	H	291	HIS
1	H	305	ASN
1	H	331	HIS

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Mol	Chain	Res	Type
1	H	342	HIS
1	H	393	GLN
1	H	470	HIS
1	I	37	HIS
1	I	93	GLN
1	I	103	HIS
1	I	105	GLN
1	I	129	GLN
1	I	148	ASN
1	I	176	GLN
1	I	244	GLN
1	I	280	HIS
1	I	286	HIS
1	I	291	HIS
1	I	305	ASN
1	I	331	HIS
1	I	342	HIS
1	I	393	GLN
1	I	470	HIS
1	J	37	HIS
1	J	93	GLN
1	J	103	HIS
1	J	105	GLN
1	J	129	GLN
1	J	148	ASN
1	J	176	GLN
1	J	244	GLN
1	J	280	HIS
1	J	286	HIS
1	J	291	HIS
1	J	305	ASN
1	J	331	HIS
1	J	342	HIS
1	J	393	GLN
1	J	470	HIS
1	K	37	HIS
1	K	93	GLN
1	K	103	HIS
1	K	105	GLN
1	K	129	GLN
1	K	148	ASN
1	K	176	GLN

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Mol	Chain	Res	Type
1	K	244	GLN
1	K	280	HIS
1	K	286	HIS
1	K	291	HIS
1	K	305	ASN
1	K	331	HIS
1	K	342	HIS
1	K	393	GLN
1	K	448	GLN
1	K	470	HIS
1	L	37	HIS
1	L	93	GLN
1	L	103	HIS
1	L	105	GLN
1	L	129	GLN
1	L	148	ASN
1	L	176	GLN
1	L	244	GLN
1	L	280	HIS
1	L	286	HIS
1	L	291	HIS
1	L	305	ASN
1	L	331	HIS
1	L	342	HIS
1	L	393	GLN
1	L	413	HIS
1	L	470	HIS
1	M	37	HIS
1	M	93	GLN
1	M	103	HIS
1	M	105	GLN
1	M	129	GLN
1	M	148	ASN
1	M	176	GLN
1	M	244	GLN
1	M	280	HIS
1	M	286	HIS
1	M	291	HIS
1	M	305	ASN
1	M	331	HIS
1	M	342	HIS
1	M	393	GLN

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Mol	Chain	Res	Type
1	M	470	HIS
1	N	37	HIS
1	N	93	GLN
1	N	103	HIS
1	N	105	GLN
1	N	129	GLN
1	N	148	ASN
1	N	176	GLN
1	N	244	GLN
1	N	280	HIS
1	N	286	HIS
1	N	291	HIS
1	N	305	ASN
1	N	331	HIS
1	N	342	HIS
1	N	393	GLN
1	N	413	HIS
1	N	448	GLN
1	N	470	HIS
1	O	37	HIS
1	O	93	GLN
1	O	103	HIS
1	O	105	GLN
1	O	129	GLN
1	O	148	ASN
1	O	176	GLN
1	O	244	GLN
1	O	280	HIS
1	O	286	HIS
1	O	291	HIS
1	O	305	ASN
1	O	331	HIS
1	O	342	HIS
1	O	393	GLN
1	O	470	HIS
1	P	37	HIS
1	P	93	GLN
1	P	103	HIS
1	P	105	GLN
1	P	129	GLN
1	P	148	ASN
1	P	176	GLN

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Mol	Chain	Res	Type
1	P	244	GLN
1	P	280	HIS
1	P	286	HIS
1	P	291	HIS
1	P	305	ASN
1	P	331	HIS
1	P	342	HIS
1	P	393	GLN
1	P	413	HIS
1	P	448	GLN
1	P	470	HIS
1	Q	37	HIS
1	Q	103	HIS
1	Q	105	GLN
1	Q	129	GLN
1	Q	148	ASN
1	Q	176	GLN
1	Q	280	HIS
1	Q	286	HIS
1	Q	291	HIS
1	Q	305	ASN
1	Q	331	HIS
1	Q	342	HIS
1	Q	393	GLN
1	Q	470	HIS
1	R	37	HIS
1	R	93	GLN
1	R	103	HIS
1	R	105	GLN
1	R	129	GLN
1	R	148	ASN
1	R	176	GLN
1	R	244	GLN
1	R	280	HIS
1	R	286	HIS
1	R	291	HIS
1	R	305	ASN
1	R	331	HIS
1	R	342	HIS
1	R	393	GLN
1	R	470	HIS
1	S	37	HIS

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Mol	Chain	Res	Type
1	S	93	GLN
1	S	103	HIS
1	S	105	GLN
1	S	129	GLN
1	S	148	ASN
1	S	176	GLN
1	S	244	GLN
1	S	280	HIS
1	S	286	HIS
1	S	291	HIS
1	S	305	ASN
1	S	331	HIS
1	S	342	HIS
1	S	393	GLN
1	S	413	HIS
1	S	448	GLN
1	S	470	HIS
1	T	37	HIS
1	T	93	GLN
1	T	103	HIS
1	T	105	GLN
1	T	129	GLN
1	T	148	ASN
1	T	176	GLN
1	T	244	GLN
1	T	280	HIS
1	T	286	HIS
1	T	291	HIS
1	T	305	ASN
1	T	331	HIS
1	T	342	HIS
1	T	393	GLN
1	T	413	HIS
1	T	448	GLN
1	T	470	HIS
1	U	37	HIS
1	U	93	GLN
1	U	103	HIS
1	U	105	GLN
1	U	129	GLN
1	U	148	ASN
1	U	176	GLN

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Mol	Chain	Res	Type
1	U	244	GLN
1	U	280	HIS
1	U	286	HIS
1	U	291	HIS
1	U	305	ASN
1	U	331	HIS
1	U	342	HIS
1	U	393	GLN
1	U	448	GLN
1	U	470	HIS
1	V	37	HIS
1	V	93	GLN
1	V	103	HIS
1	V	105	GLN
1	V	129	GLN
1	V	148	ASN
1	V	176	GLN
1	V	244	GLN
1	V	280	HIS
1	V	286	HIS
1	V	291	HIS
1	V	305	ASN
1	V	331	HIS
1	V	342	HIS
1	V	393	GLN
1	V	470	HIS
1	W	37	HIS
1	W	93	GLN
1	W	103	HIS
1	W	105	GLN
1	W	129	GLN
1	W	148	ASN
1	W	176	GLN
1	W	244	GLN
1	W	280	HIS
1	W	286	HIS
1	W	291	HIS
1	W	305	ASN
1	W	331	HIS
1	W	342	HIS
1	W	393	GLN
1	W	413	HIS

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Mol	Chain	Res	Type
1	W	470	HIS
1	X	37	HIS
1	X	93	GLN
1	X	103	HIS
1	X	105	GLN
1	X	129	GLN
1	X	148	ASN
1	X	176	GLN
1	X	244	GLN
1	X	280	HIS
1	X	286	HIS
1	X	291	HIS
1	X	305	ASN
1	X	331	HIS
1	X	342	HIS
1	X	393	GLN
1	X	413	HIS
1	X	470	HIS
1	Y	37	HIS
1	Y	93	GLN
1	Y	103	HIS
1	Y	105	GLN
1	Y	129	GLN
1	Y	148	ASN
1	Y	176	GLN
1	Y	244	GLN
1	Y	280	HIS
1	Y	286	HIS
1	Y	291	HIS
1	Y	305	ASN
1	Y	331	HIS
1	Y	342	HIS
1	Y	393	GLN
1	Y	413	HIS
1	Y	448	GLN
1	Y	470	HIS
1	Z	37	HIS
1	Z	93	GLN
1	Z	103	HIS
1	Z	105	GLN
1	Z	129	GLN
1	Z	148	ASN

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Mol	Chain	Res	Type
1	Z	176	GLN
1	Z	244	GLN
1	Z	280	HIS
1	Z	286	HIS
1	Z	291	HIS
1	Z	305	ASN
1	Z	331	HIS
1	Z	342	HIS
1	Z	393	GLN
1	Z	413	HIS
1	Z	448	GLN
1	Z	470	HIS
1	1	37	HIS
1	1	93	GLN
1	1	103	HIS
1	1	105	GLN
1	1	129	GLN
1	1	148	ASN
1	1	176	GLN
1	1	244	GLN
1	1	280	HIS
1	1	286	HIS
1	1	291	HIS
1	1	305	ASN
1	1	331	HIS
1	1	342	HIS
1	1	393	GLN
1	1	413	HIS
1	1	470	HIS
1	2	37	HIS
1	2	93	GLN
1	2	103	HIS
1	2	105	GLN
1	2	129	GLN
1	2	148	ASN
1	2	176	GLN
1	2	244	GLN
1	2	280	HIS
1	2	286	HIS
1	2	291	HIS
1	2	305	ASN
1	2	331	HIS

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Mol	Chain	Res	Type
1	2	342	HIS
1	2	393	GLN
1	2	470	HIS
1	3	37	HIS
1	3	93	GLN
1	3	103	HIS
1	3	105	GLN
1	3	129	GLN
1	3	148	ASN
1	3	176	GLN
1	3	244	GLN
1	3	280	HIS
1	3	286	HIS
1	3	291	HIS
1	3	305	ASN
1	3	331	HIS
1	3	342	HIS
1	3	393	GLN
1	3	413	HIS
1	3	470	HIS
1	4	37	HIS
1	4	93	GLN
1	4	103	HIS
1	4	105	GLN
1	4	129	GLN
1	4	148	ASN
1	4	176	GLN
1	4	244	GLN
1	4	280	HIS
1	4	286	HIS
1	4	291	HIS
1	4	305	ASN
1	4	331	HIS
1	4	342	HIS
1	4	393	GLN
1	4	470	HIS
1	5	37	HIS
1	5	93	GLN
1	5	103	HIS
1	5	105	GLN
1	5	129	GLN
1	5	148	ASN

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Mol	Chain	Res	Type
1	5	176	GLN
1	5	244	GLN
1	5	280	HIS
1	5	286	HIS
1	5	291	HIS
1	5	305	ASN
1	5	331	HIS
1	5	342	HIS
1	5	393	GLN
1	5	448	GLN
1	5	470	HIS
1	6	37	HIS
1	6	93	GLN
1	6	103	HIS
1	6	105	GLN
1	6	129	GLN
1	6	148	ASN
1	6	176	GLN
1	6	244	GLN
1	6	280	HIS
1	6	286	HIS
1	6	291	HIS
1	6	305	ASN
1	6	331	HIS
1	6	342	HIS
1	6	393	GLN
1	6	448	GLN
1	6	470	HIS
1	a	37	HIS
1	a	93	GLN
1	a	103	HIS
1	a	105	GLN
1	a	129	GLN
1	a	148	ASN
1	a	176	GLN
1	a	244	GLN
1	a	280	HIS
1	a	286	HIS
1	a	291	HIS
1	a	305	ASN
1	a	331	HIS
1	a	342	HIS

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Mol	Chain	Res	Type
1	a	393	GLN
1	a	448	GLN
1	a	470	HIS
1	b	37	HIS
1	b	93	GLN
1	b	103	HIS
1	b	105	GLN
1	b	129	GLN
1	b	148	ASN
1	b	176	GLN
1	b	244	GLN
1	b	280	HIS
1	b	286	HIS
1	b	291	HIS
1	b	305	ASN
1	b	331	HIS
1	b	342	HIS
1	b	393	GLN
1	b	413	HIS
1	b	470	HIS
1	c	37	HIS
1	c	93	GLN
1	c	103	HIS
1	c	105	GLN
1	c	129	GLN
1	c	148	ASN
1	c	176	GLN
1	c	244	GLN
1	c	280	HIS
1	c	286	HIS
1	c	291	HIS
1	c	305	ASN
1	c	331	HIS
1	c	342	HIS
1	c	393	GLN
1	c	470	HIS
1	d	37	HIS
1	d	93	GLN
1	d	103	HIS
1	d	105	GLN
1	d	129	GLN
1	d	148	ASN

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Mol	Chain	Res	Type
1	d	176	GLN
1	d	244	GLN
1	d	280	HIS
1	d	286	HIS
1	d	291	HIS
1	d	305	ASN
1	d	331	HIS
1	d	342	HIS
1	d	393	GLN
1	d	470	HIS
1	e	37	HIS
1	e	93	GLN
1	e	103	HIS
1	e	105	GLN
1	e	129	GLN
1	e	148	ASN
1	e	176	GLN
1	e	244	GLN
1	e	280	HIS
1	e	286	HIS
1	e	291	HIS
1	e	305	ASN
1	e	331	HIS
1	e	342	HIS
1	e	393	GLN
1	e	470	HIS
1	f	37	HIS
1	f	93	GLN
1	f	103	HIS
1	f	105	GLN
1	f	129	GLN
1	f	148	ASN
1	f	176	GLN
1	f	244	GLN
1	f	280	HIS
1	f	286	HIS
1	f	291	HIS
1	f	305	ASN
1	f	331	HIS
1	f	342	HIS
1	f	393	GLN
1	f	413	HIS

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Mol	Chain	Res	Type
1	f	470	HIS
1	g	37	HIS
1	g	93	GLN
1	g	103	HIS
1	g	105	GLN
1	g	129	GLN
1	g	148	ASN
1	g	176	GLN
1	g	244	GLN
1	g	280	HIS
1	g	286	HIS
1	g	291	HIS
1	g	305	ASN
1	g	331	HIS
1	g	342	HIS
1	g	393	GLN
1	g	448	GLN
1	g	470	HIS
1	h	37	HIS
1	h	93	GLN
1	h	103	HIS
1	h	105	GLN
1	h	129	GLN
1	h	148	ASN
1	h	176	GLN
1	h	244	GLN
1	h	280	HIS
1	h	286	HIS
1	h	291	HIS
1	h	305	ASN
1	h	331	HIS
1	h	342	HIS
1	h	393	GLN
1	h	470	HIS
1	i	37	HIS
1	i	93	GLN
1	i	103	HIS
1	i	105	GLN
1	i	129	GLN
1	i	148	ASN
1	i	176	GLN
1	i	244	GLN

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Mol	Chain	Res	Type
1	i	280	HIS
1	i	286	HIS
1	i	291	HIS
1	i	305	ASN
1	i	331	HIS
1	i	342	HIS
1	i	393	GLN
1	i	448	GLN
1	i	470	HIS
1	j	37	HIS
1	j	93	GLN
1	j	103	HIS
1	j	105	GLN
1	j	129	GLN
1	j	148	ASN
1	j	176	GLN
1	j	244	GLN
1	j	280	HIS
1	j	286	HIS
1	j	291	HIS
1	j	305	ASN
1	j	331	HIS
1	j	342	HIS
1	j	393	GLN
1	j	470	HIS
1	k	37	HIS
1	k	93	GLN
1	k	103	HIS
1	k	105	GLN
1	k	129	GLN
1	k	148	ASN
1	k	176	GLN
1	k	244	GLN
1	k	280	HIS
1	k	286	HIS
1	k	291	HIS
1	k	305	ASN
1	k	331	HIS
1	k	342	HIS
1	k	393	GLN
1	k	470	HIS
1	l	37	HIS

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Mol	Chain	Res	Type
1	l	93	GLN
1	l	103	HIS
1	l	105	GLN
1	l	129	GLN
1	l	148	ASN
1	l	176	GLN
1	l	244	GLN
1	l	280	HIS
1	l	286	HIS
1	l	291	HIS
1	l	305	ASN
1	l	331	HIS
1	l	342	HIS
1	l	393	GLN
1	l	448	GLN
1	l	470	HIS
1	m	37	HIS
1	m	93	GLN
1	m	103	HIS
1	m	105	GLN
1	m	129	GLN
1	m	148	ASN
1	m	176	GLN
1	m	244	GLN
1	m	280	HIS
1	m	286	HIS
1	m	291	HIS
1	m	305	ASN
1	m	331	HIS
1	m	342	HIS
1	m	393	GLN
1	m	413	HIS
1	m	470	HIS
1	n	37	HIS
1	n	93	GLN
1	n	103	HIS
1	n	105	GLN
1	n	129	GLN
1	n	148	ASN
1	n	176	GLN
1	n	244	GLN
1	n	280	HIS

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Mol	Chain	Res	Type
1	n	286	HIS
1	n	291	HIS
1	n	305	ASN
1	n	331	HIS
1	n	342	HIS
1	n	393	GLN
1	n	470	HIS
1	o	37	HIS
1	o	93	GLN
1	o	103	HIS
1	o	105	GLN
1	o	129	GLN
1	o	148	ASN
1	o	176	GLN
1	o	244	GLN
1	o	280	HIS
1	o	286	HIS
1	o	291	HIS
1	o	305	ASN
1	o	331	HIS
1	o	342	HIS
1	o	393	GLN
1	o	413	HIS
1	o	470	HIS
1	p	37	HIS
1	p	93	GLN
1	p	103	HIS
1	p	105	GLN
1	p	129	GLN
1	p	148	ASN
1	p	176	GLN
1	p	244	GLN
1	p	280	HIS
1	p	286	HIS
1	p	291	HIS
1	p	305	ASN
1	p	331	HIS
1	p	342	HIS
1	p	393	GLN
1	p	470	HIS
1	q	37	HIS
1	q	93	GLN

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Mol	Chain	Res	Type
1	q	103	HIS
1	q	105	GLN
1	q	129	GLN
1	q	148	ASN
1	q	176	GLN
1	q	244	GLN
1	q	280	HIS
1	q	286	HIS
1	q	291	HIS
1	q	305	ASN
1	q	331	HIS
1	q	342	HIS
1	q	393	GLN
1	q	413	HIS
1	q	470	HIS
1	r	37	HIS
1	r	93	GLN
1	r	103	HIS
1	r	105	GLN
1	r	129	GLN
1	r	148	ASN
1	r	176	GLN
1	r	244	GLN
1	r	280	HIS
1	r	286	HIS
1	r	291	HIS
1	r	305	ASN
1	r	331	HIS
1	r	342	HIS
1	r	393	GLN
1	r	413	HIS
1	r	470	HIS
1	s	37	HIS
1	s	93	GLN
1	s	103	HIS
1	s	105	GLN
1	s	129	GLN
1	s	148	ASN
1	s	176	GLN
1	s	244	GLN
1	s	280	HIS
1	s	286	HIS

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Mol	Chain	Res	Type
1	s	291	HIS
1	s	305	ASN
1	s	331	HIS
1	s	342	HIS
1	s	393	GLN
1	s	413	HIS
1	s	448	GLN
1	s	470	HIS
1	t	37	HIS
1	t	93	GLN
1	t	103	HIS
1	t	105	GLN
1	t	129	GLN
1	t	148	ASN
1	t	176	GLN
1	t	244	GLN
1	t	280	HIS
1	t	286	HIS
1	t	291	HIS
1	t	305	ASN
1	t	331	HIS
1	t	342	HIS
1	t	393	GLN
1	t	470	HIS
1	u	37	HIS
1	u	93	GLN
1	u	103	HIS
1	u	105	GLN
1	u	129	GLN
1	u	148	ASN
1	u	176	GLN
1	u	244	GLN
1	u	280	HIS
1	u	286	HIS
1	u	291	HIS
1	u	305	ASN
1	u	331	HIS
1	u	342	HIS
1	u	393	GLN
1	u	448	GLN
1	u	470	HIS
1	v	37	HIS

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Mol	Chain	Res	Type
1	v	93	GLN
1	v	103	HIS
1	v	105	GLN
1	v	129	GLN
1	v	148	ASN
1	v	176	GLN
1	v	244	GLN
1	v	280	HIS
1	v	286	HIS
1	v	291	HIS
1	v	305	ASN
1	v	331	HIS
1	v	342	HIS
1	v	393	GLN
1	v	470	HIS
1	w	37	HIS
1	w	93	GLN
1	w	103	HIS
1	w	105	GLN
1	w	129	GLN
1	w	148	ASN
1	w	176	GLN
1	w	244	GLN
1	w	280	HIS
1	w	286	HIS
1	w	291	HIS
1	w	305	ASN
1	w	331	HIS
1	w	342	HIS
1	w	393	GLN
1	w	413	HIS
1	w	470	HIS
1	x	37	HIS
1	x	93	GLN
1	x	103	HIS
1	x	105	GLN
1	x	129	GLN
1	x	148	ASN
1	x	176	GLN
1	x	244	GLN
1	x	280	HIS
1	x	286	HIS

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Mol	Chain	Res	Type
1	x	291	HIS
1	x	305	ASN
1	x	331	HIS
1	x	342	HIS
1	x	393	GLN
1	x	470	HIS
1	y	37	HIS
1	y	93	GLN
1	y	103	HIS
1	y	105	GLN
1	y	129	GLN
1	y	148	ASN
1	y	176	GLN
1	y	244	GLN
1	y	280	HIS
1	y	286	HIS
1	y	291	HIS
1	y	305	ASN
1	y	331	HIS
1	y	342	HIS
1	y	393	GLN
1	y	470	HIS
1	z	37	HIS
1	z	93	GLN
1	z	103	HIS
1	z	105	GLN
1	z	129	GLN
1	z	148	ASN
1	z	176	GLN
1	z	244	GLN
1	z	280	HIS
1	z	286	HIS
1	z	291	HIS
1	z	305	ASN
1	z	331	HIS
1	z	342	HIS
1	z	393	GLN
1	z	413	HIS
1	z	448	GLN
1	z	470	HIS
1	7	37	HIS
1	7	93	GLN

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Mol	Chain	Res	Type
1	7	103	HIS
1	7	105	GLN
1	7	129	GLN
1	7	148	ASN
1	7	176	GLN
1	7	244	GLN
1	7	280	HIS
1	7	286	HIS
1	7	291	HIS
1	7	305	ASN
1	7	331	HIS
1	7	342	HIS
1	7	393	GLN
1	7	448	GLN
1	7	470	HIS
1	0	37	HIS
1	0	93	GLN
1	0	103	HIS
1	0	105	GLN
1	0	129	GLN
1	0	148	ASN
1	0	176	GLN
1	0	244	GLN
1	0	280	HIS
1	0	286	HIS
1	0	291	HIS
1	0	305	ASN
1	0	331	HIS
1	0	342	HIS
1	0	393	GLN
1	0	470	HIS

### 5.3.3 RNA ⓘ

There are no RNA molecules in this entry.

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

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

## 5.5 Carbohydrates [i](#)

There are no carbohydrates 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.