



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

Dec 4, 2019 – 01:43 PM EST

PDB ID : 6V1T  
EMDB ID: : EMD-21017  
Title : Empty AAVrh.39 particle  
Authors : Mietzsch, M.; Agbandje-McKenna, M.  
Deposited on : 2019-11-21  
Resolution : 3.39 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

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

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MolProbity : 4.02b-467  
Percentile statistics : 20171227.v01 (using entries in the PDB archive December 27th 2017)  
Ideal geometry (proteins) : Engh & Huber (2001)  
Ideal geometry (DNA, RNA) : Parkinson et. al. (1996)  
Validation Pipeline (wwPDB-VP) : 2.4

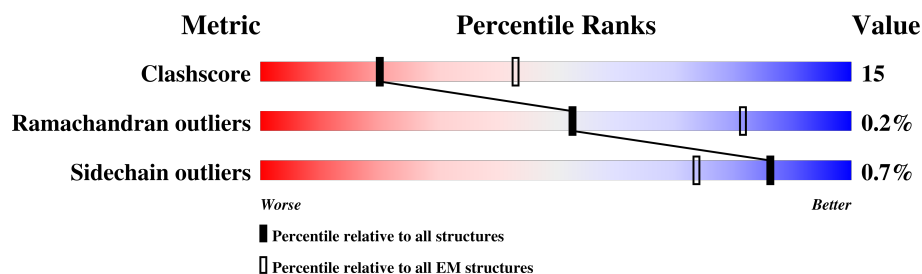
# 1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

*ELECTRON MICROSCOPY*

The reported resolution of this entry is 3.39 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	136327	1886
Ramachandran outliers	132723	1663
Sidechain outliers	132532	1531

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	1	521	64%	36% .
1	2	521	64%	35% .
1	3	521	64%	35% .
1	4	521	65%	35% .
1	5	521	66%	33% .
1	6	521	65%	35% .
1	7	521	64%	35% .
1	8	521	65%	34% .
1	A	521	63%	36% .

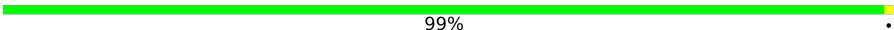
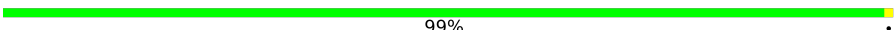
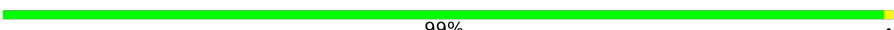
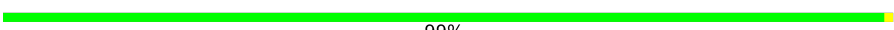
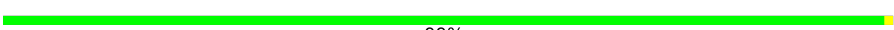





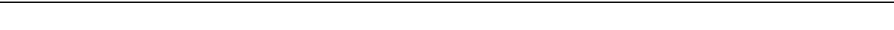

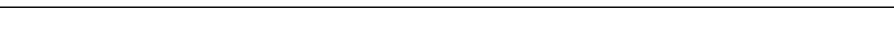
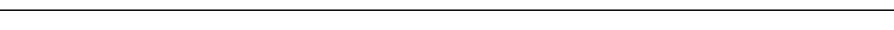
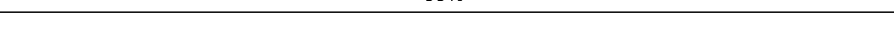
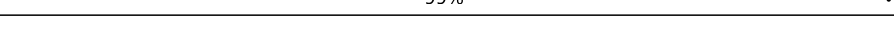
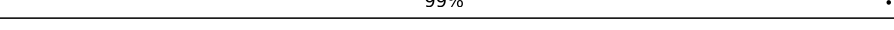
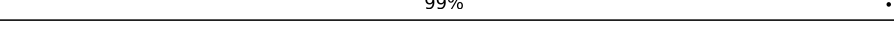
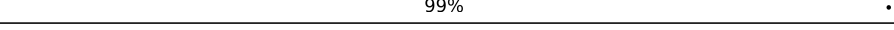
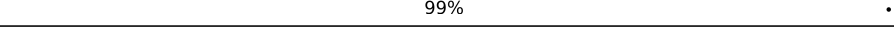
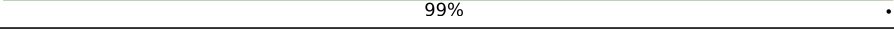
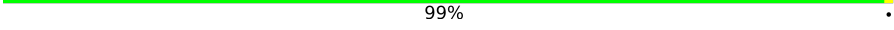
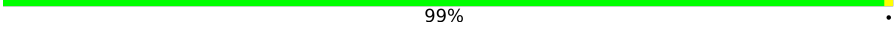
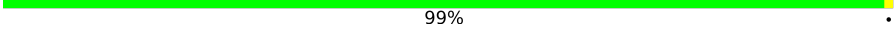
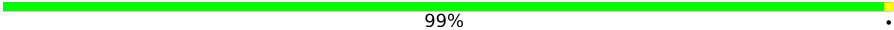
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Mol	Chain	Length	Quality of chain
1	B	521	 65% 34% .
1	C	521	 64% 35% .
1	D	521	 63% 36% .
1	E	521	 64% 36% .
1	F	521	 64% 36% .
1	G	521	 63% 36% .
1	H	521	 63% 36% .
1	I	521	 64% 36% .
1	J	521	 63% 36% .
1	K	521	 63% 37% .
1	L	521	 64% 36% .
1	M	521	 63% 37% .
1	N	521	 64% 36% .
1	O	521	 63% 36% .
1	P	521	 64% 36% .
1	Q	521	 64% 36% .
1	R	521	 63% 36% .
1	S	521	 63% 36% .
1	T	521	 63% 36% .
1	U	521	 63% 36% .
1	V	521	 63% 36% .
1	W	521	 63% 37% .
1	X	521	 64% 36% .
1	Y	521	 62% 37% .
1	Z	521	 63% 37% .

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Mol	Chain	Length	Quality of chain
1	a	521	 99%
1	b	521	 99%
1	c	521	 99%
1	d	521	 99%
1	e	521	 99%
1	f	521	 99%
1	g	521	 99%
1	h	521	 99%
1	i	521	 99%
1	j	521	 99%
1	k	521	 99%
1	l	521	 99%
1	m	521	 99%
1	n	521	 99%
1	o	521	 99%
1	p	521	 99%
1	q	521	 99%
1	r	521	 99%
1	s	521	 99%
1	t	521	 99%
1	u	521	 99%
1	v	521	 99%
1	w	521	 99%
1	x	521	 99%
1	y	521	 99%

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Mol	Chain	Length	Quality of chain
1	z	521	<div><div></div><div>99%</div><div></div></div>

## 2 Entry composition

There is only 1 type of molecule in this entry. The entry contains 248280 atoms, of which 0 are hydrogens and 0 are deuteriums.

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

- Molecule 1 is a protein called Capsid protein VP1.

Mol	Chain	Residues	Atoms					AltConf	Trace
1	A	521	Total	C	N	O	S	0	0
			4138	2612	715	797	14		
1	B	521	Total	C	N	O	S	0	0
			4138	2612	715	797	14		
1	C	521	Total	C	N	O	S	0	0
			4138	2612	715	797	14		
1	D	521	Total	C	N	O	S	0	0
			4138	2612	715	797	14		
1	E	521	Total	C	N	O	S	0	0
			4138	2612	715	797	14		
1	F	521	Total	C	N	O	S	0	0
			4138	2612	715	797	14		
1	G	521	Total	C	N	O	S	0	0
			4138	2612	715	797	14		
1	H	521	Total	C	N	O	S	0	0
			4138	2612	715	797	14		
1	I	521	Total	C	N	O	S	0	0
			4138	2612	715	797	14		
1	J	521	Total	C	N	O	S	0	0
			4138	2612	715	797	14		
1	K	521	Total	C	N	O	S	0	0
			4138	2612	715	797	14		
1	L	521	Total	C	N	O	S	0	0
			4138	2612	715	797	14		
1	M	521	Total	C	N	O	S	0	0
			4138	2612	715	797	14		
1	N	521	Total	C	N	O	S	0	0
			4138	2612	715	797	14		
1	O	521	Total	C	N	O	S	0	0
			4138	2612	715	797	14		
1	P	521	Total	C	N	O	S	0	0
			4138	2612	715	797	14		
1	Q	521	Total	C	N	O	S	0	0
			4138	2612	715	797	14		

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Mol	Chain	Residues	Atoms					AltConf	Trace
1	R	521	Total 4138	C 2612	N 715	O 797	S 14	0	0
1	S	521	Total 4138	C 2612	N 715	O 797	S 14	0	0
1	T	521	Total 4138	C 2612	N 715	O 797	S 14	0	0
1	U	521	Total 4138	C 2612	N 715	O 797	S 14	0	0
1	V	521	Total 4138	C 2612	N 715	O 797	S 14	0	0
1	W	521	Total 4138	C 2612	N 715	O 797	S 14	0	0
1	X	521	Total 4138	C 2612	N 715	O 797	S 14	0	0
1	Y	521	Total 4138	C 2612	N 715	O 797	S 14	0	0
1	Z	521	Total 4138	C 2612	N 715	O 797	S 14	0	0
1	a	521	Total 4138	C 2612	N 715	O 797	S 14	0	0
1	b	521	Total 4138	C 2612	N 715	O 797	S 14	0	0
1	c	521	Total 4138	C 2612	N 715	O 797	S 14	0	0
1	d	521	Total 4138	C 2612	N 715	O 797	S 14	0	0
1	e	521	Total 4138	C 2612	N 715	O 797	S 14	0	0
1	f	521	Total 4138	C 2612	N 715	O 797	S 14	0	0
1	g	521	Total 4138	C 2612	N 715	O 797	S 14	0	0
1	h	521	Total 4138	C 2612	N 715	O 797	S 14	0	0
1	i	521	Total 4138	C 2612	N 715	O 797	S 14	0	0
1	j	521	Total 4138	C 2612	N 715	O 797	S 14	0	0
1	k	521	Total 4138	C 2612	N 715	O 797	S 14	0	0
1	l	521	Total 4138	C 2612	N 715	O 797	S 14	0	0

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Mol	Chain	Residues	Atoms					AltConf	Trace
1	m	521	Total 4138	C 2612	N 715	O 797	S 14	0	0
1	n	521	Total 4138	C 2612	N 715	O 797	S 14	0	0
1	o	521	Total 4138	C 2612	N 715	O 797	S 14	0	0
1	p	521	Total 4138	C 2612	N 715	O 797	S 14	0	0
1	q	521	Total 4138	C 2612	N 715	O 797	S 14	0	0
1	r	521	Total 4138	C 2612	N 715	O 797	S 14	0	0
1	s	521	Total 4138	C 2612	N 715	O 797	S 14	0	0
1	t	521	Total 4138	C 2612	N 715	O 797	S 14	0	0
1	u	521	Total 4138	C 2612	N 715	O 797	S 14	0	0
1	v	521	Total 4138	C 2612	N 715	O 797	S 14	0	0
1	w	521	Total 4138	C 2612	N 715	O 797	S 14	0	0
1	x	521	Total 4138	C 2612	N 715	O 797	S 14	0	0
1	y	521	Total 4138	C 2612	N 715	O 797	S 14	0	0
1	z	521	Total 4138	C 2612	N 715	O 797	S 14	0	0
1	1	521	Total 4138	C 2612	N 715	O 797	S 14	0	0
1	2	521	Total 4138	C 2612	N 715	O 797	S 14	0	0
1	3	521	Total 4138	C 2612	N 715	O 797	S 14	0	0
1	4	521	Total 4138	C 2612	N 715	O 797	S 14	0	0
1	5	521	Total 4138	C 2612	N 715	O 797	S 14	0	0
1	6	521	Total 4138	C 2612	N 715	O 797	S 14	0	0
1	7	521	Total 4138	C 2612	N 715	O 797	S 14	0	0

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Mol	Chain	Residues	Atoms					AltConf	Trace
1	8	521	Total	C	N	O	S	0	0
			4138	2612	715	797	14		

There are 120 discrepancies between the modelled and reference sequences:

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

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

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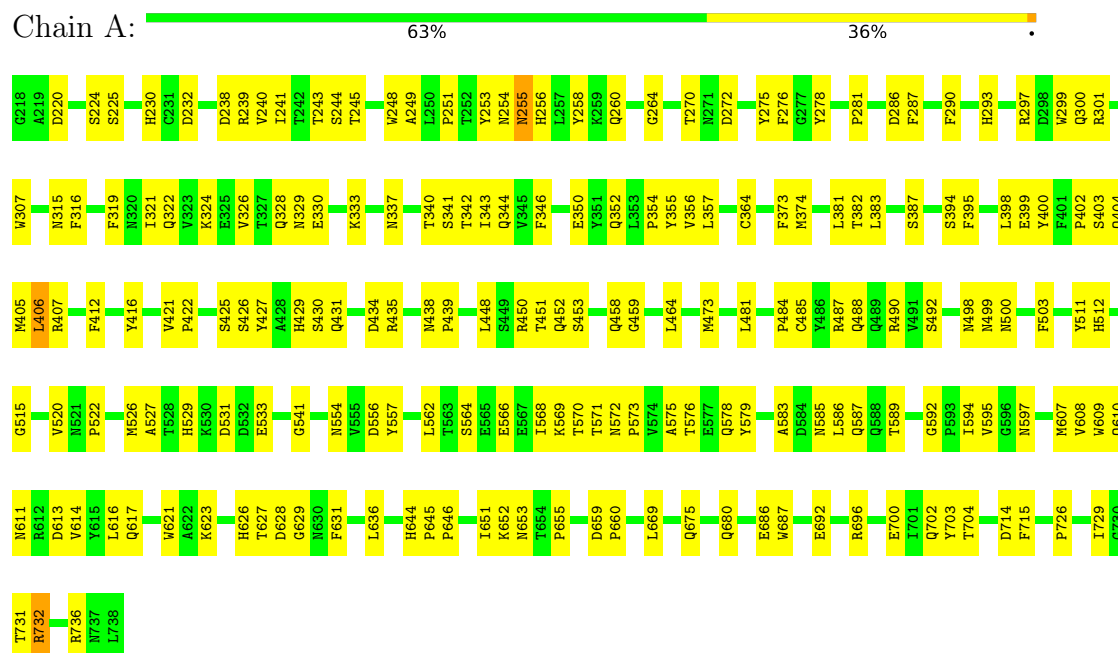
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Chain	Residue	Modelled	Actual	Comment	Reference
n	315	ASN	SER	conflict	UNP B4Y886
n	417	GLN	THR	conflict	UNP B4Y886
o	315	ASN	SER	conflict	UNP B4Y886
o	417	GLN	THR	conflict	UNP B4Y886
p	315	ASN	SER	conflict	UNP B4Y886
p	417	GLN	THR	conflict	UNP B4Y886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

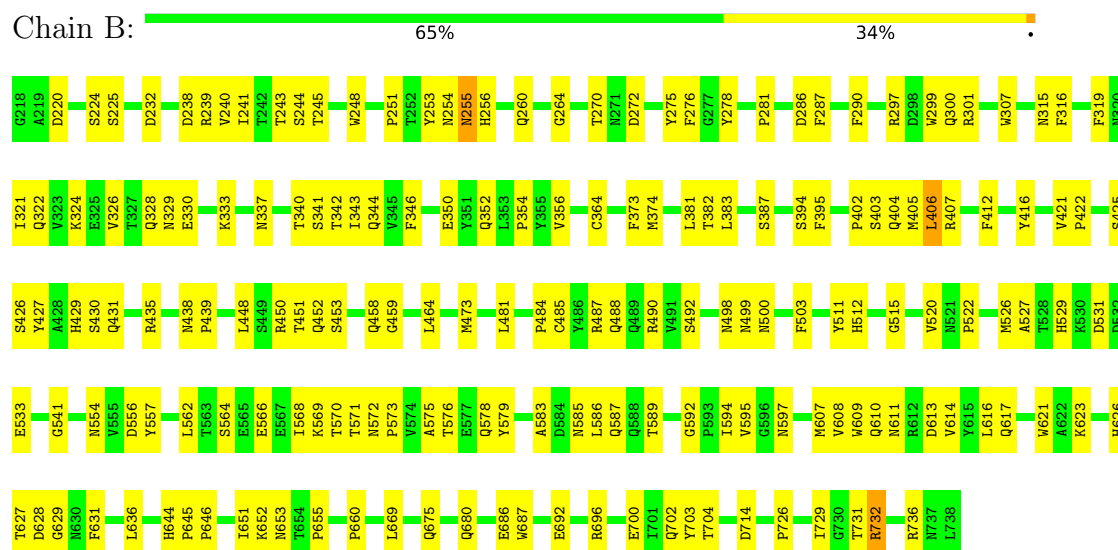
### 3 Residue-property plots

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.

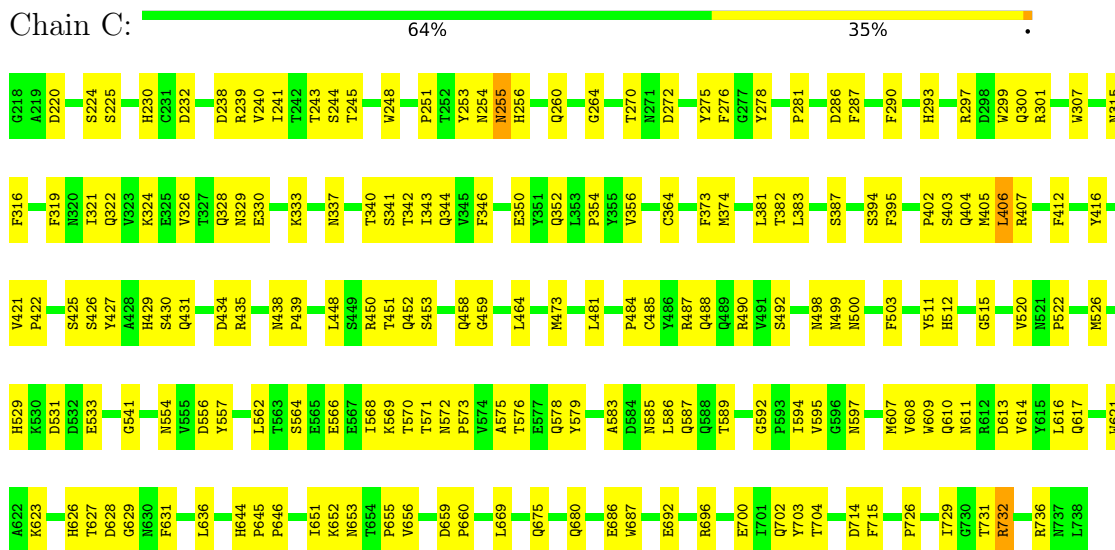
#### • Molecule 1: Capsid protein VP1



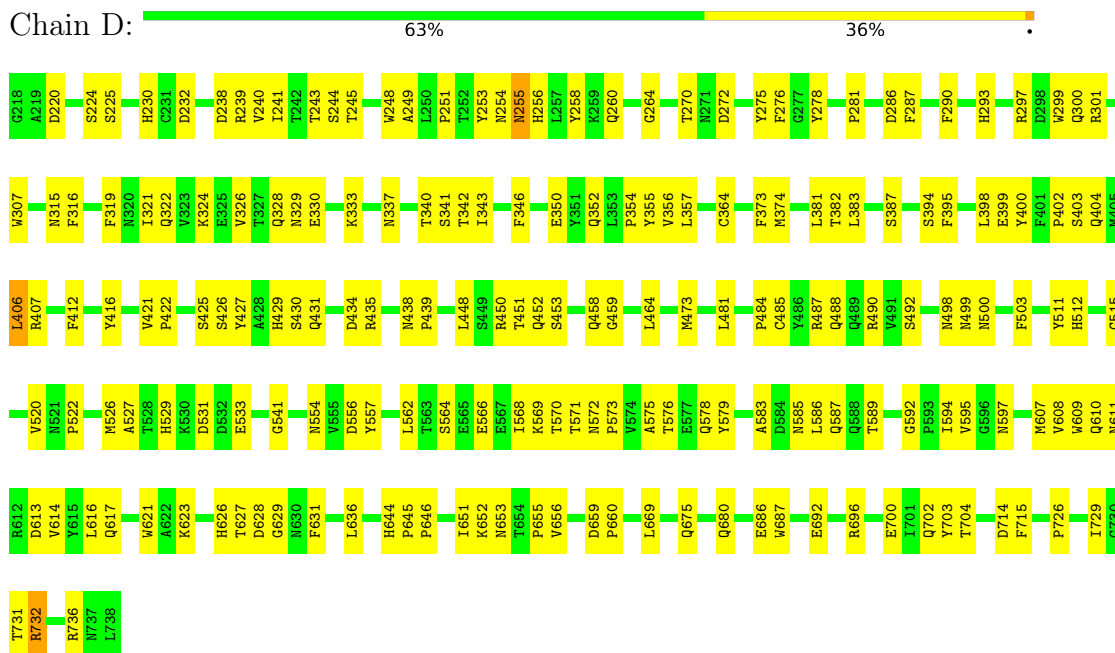
#### • Molecule 1: Capsid protein VP1



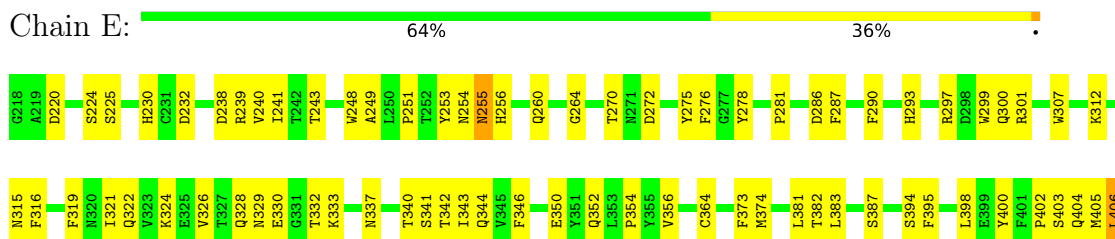
- Molecule 1: Capsid protein VP1



- Molecule 1: Capsid protein VP1



- Molecule 1: Capsid protein VP1

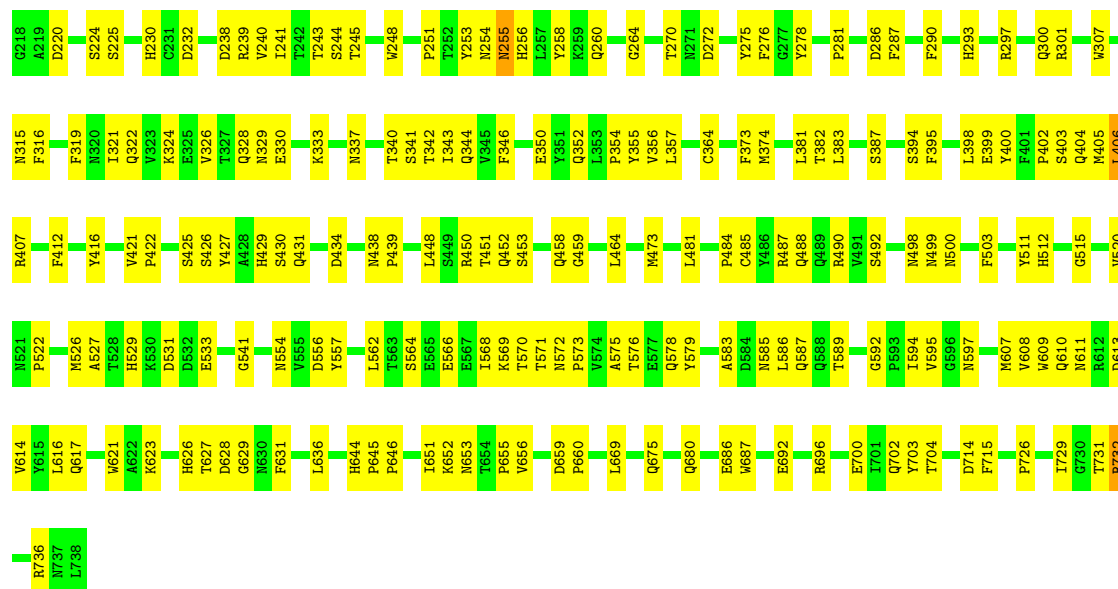






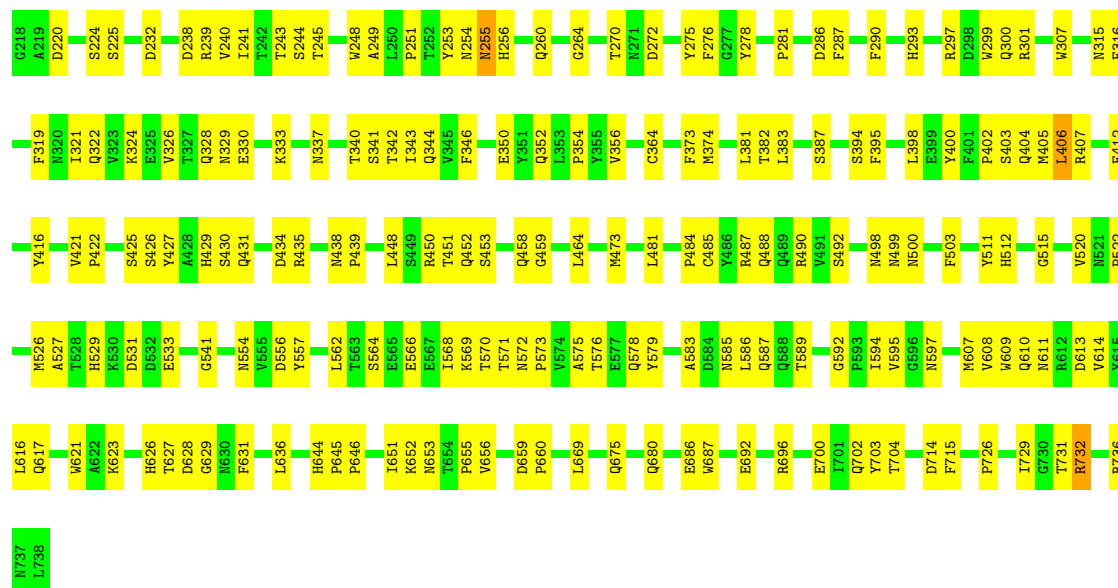
• Molecule 1: Capsid protein VP1

Chain H: 63% 36%



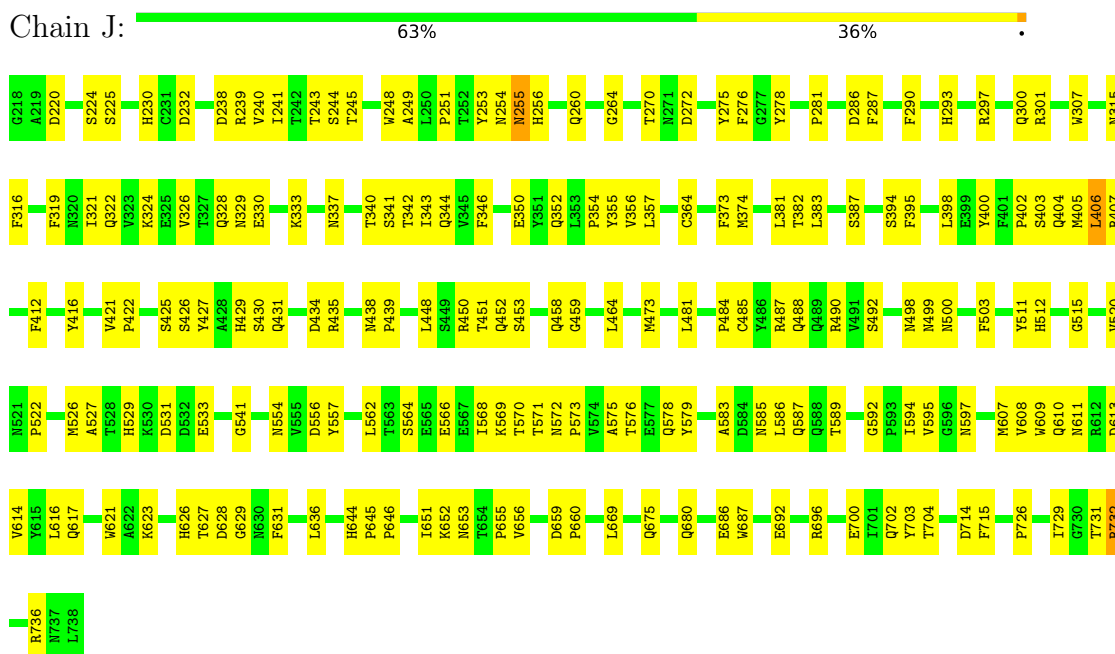
• Molecule 1: Capsid protein VP1

Chain I: 64% 36%



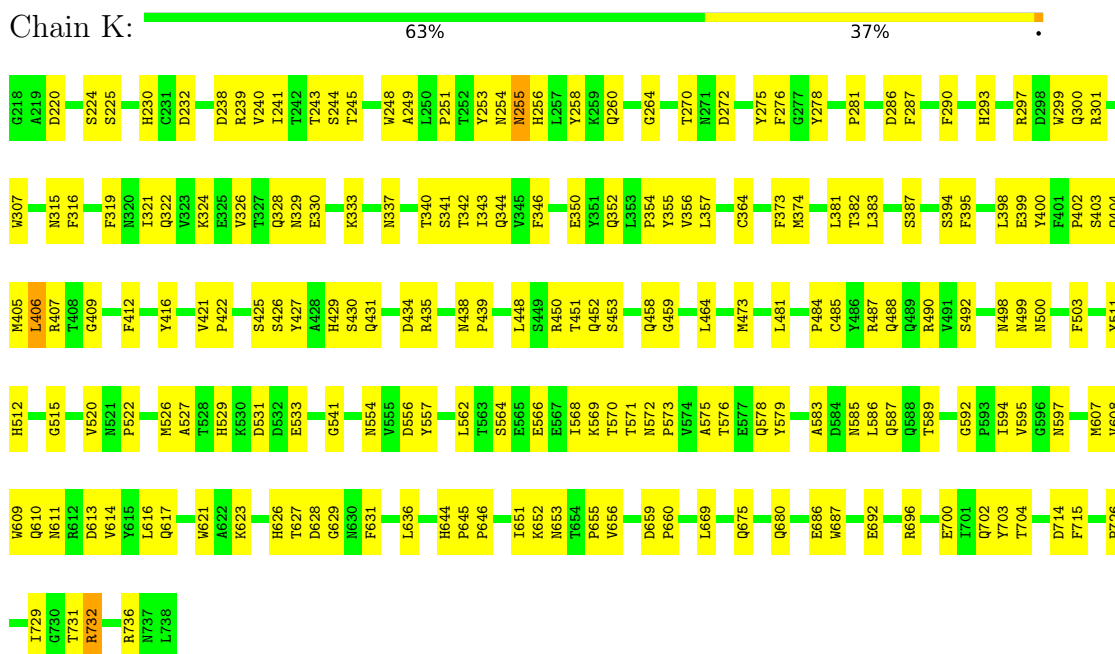
• Molecule 1: Capsid protein VP1

## Chain J:



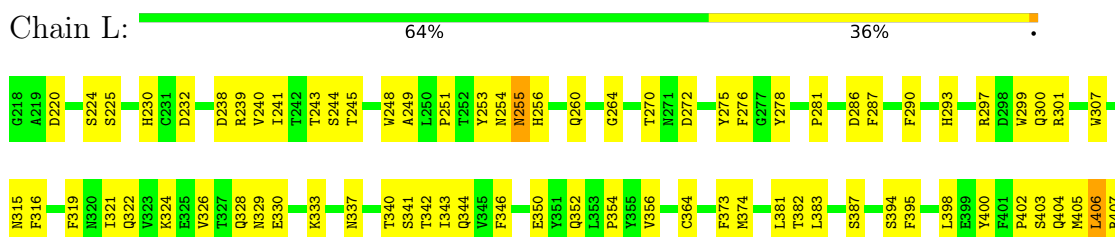
## • Molecule 1: Capsid protein VP1

## Chain K:

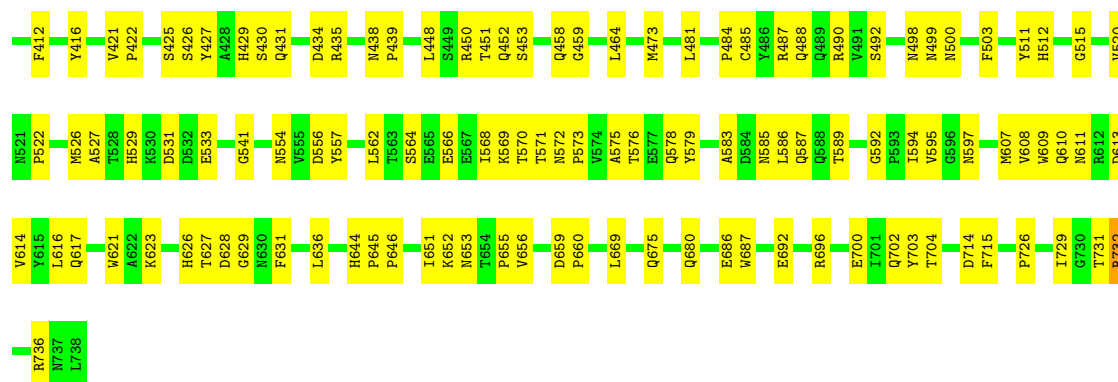


## • Molecule 1: Capsid protein VP1

## Chain L:

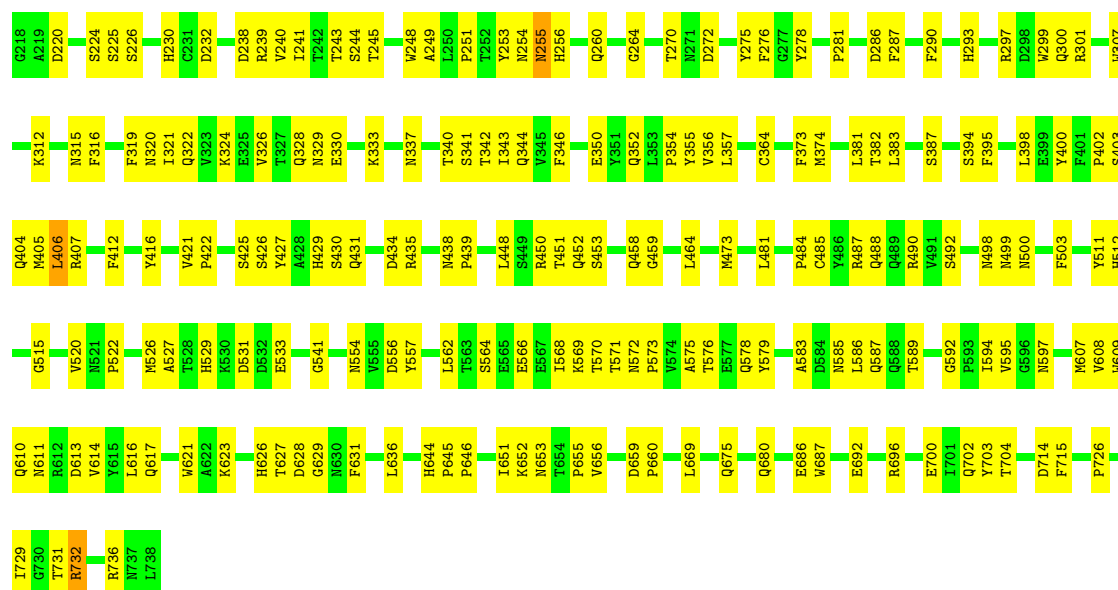






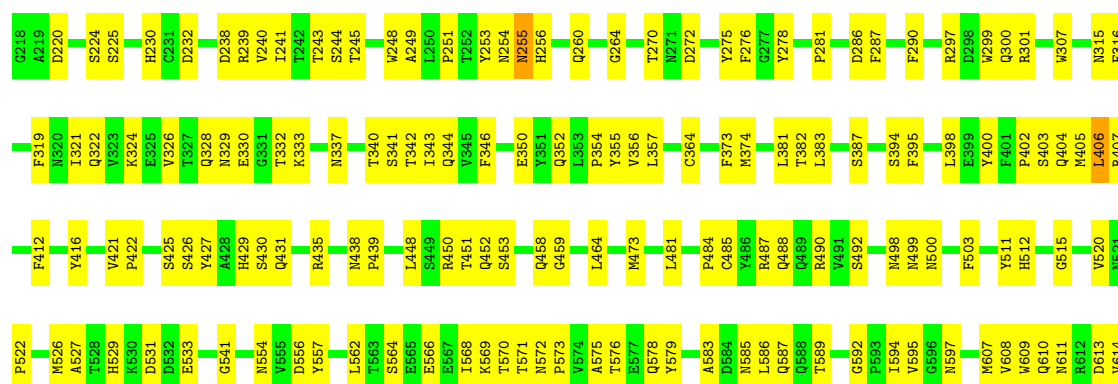
• Molecule 1: Capsid protein VP1

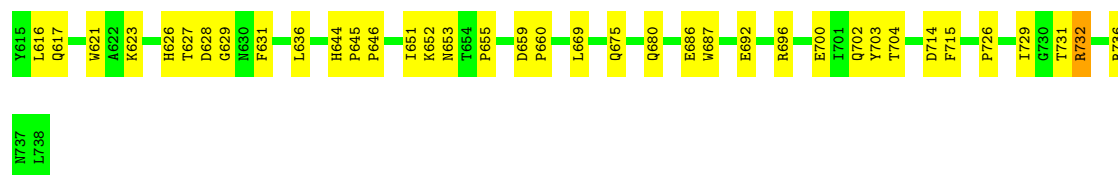
Chain M:  63% 37% .



• Molecule 1: Capsid protein VP1

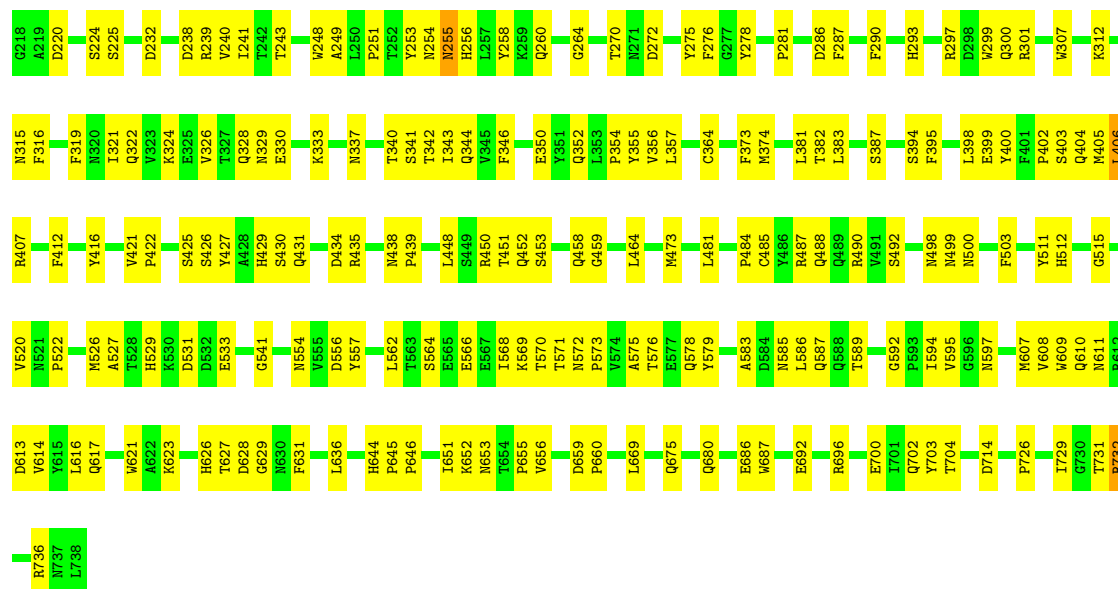
Chain N:  64% 36% .





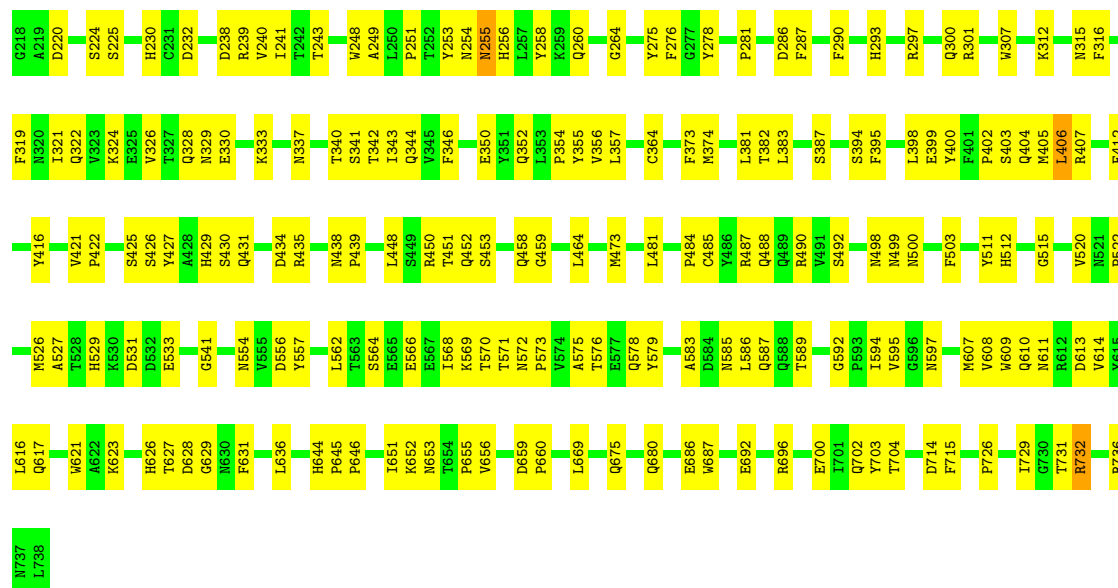
• Molecule 1: Capsid protein VP1

Chain O: 63% 36%



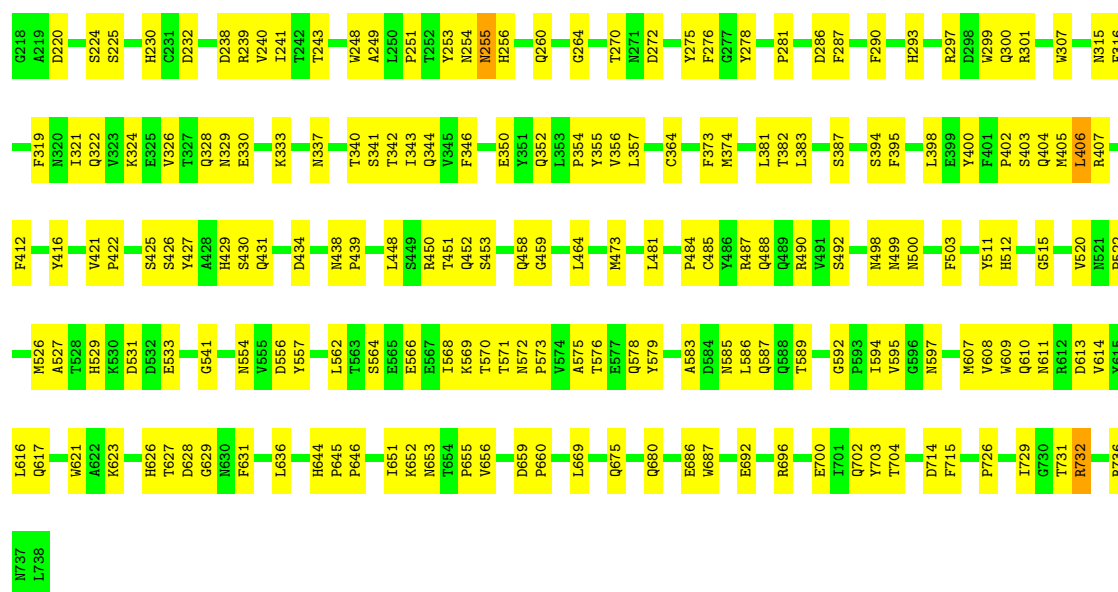
• Molecule 1: Capsid protein VP1

Chain P: 64% 36%



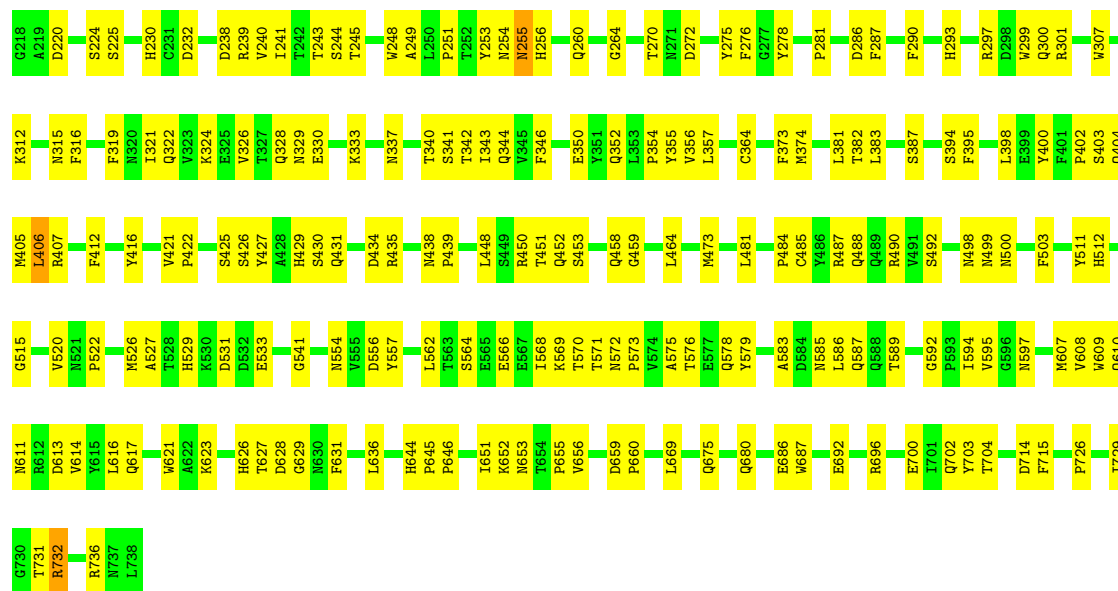
• Molecule 1: Capsid protein VP1

Chain Q:  64% 36%



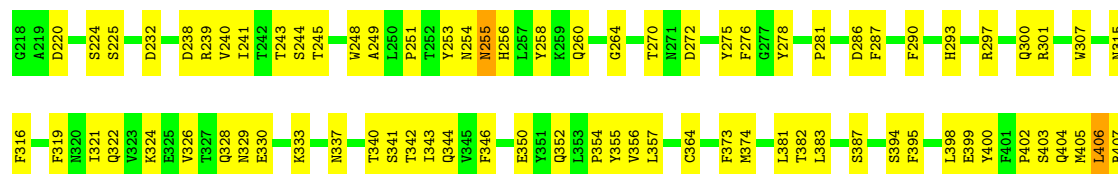
• Molecule 1: Capsid protein VP1

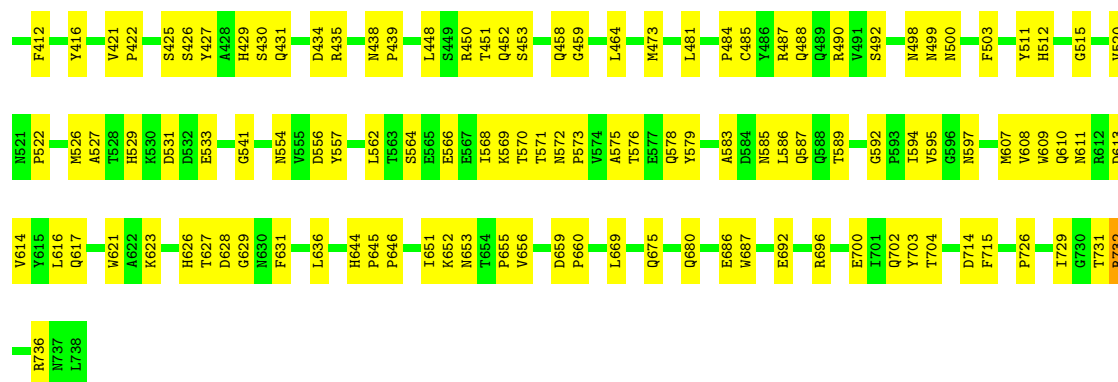
Chain R:  63% 36%



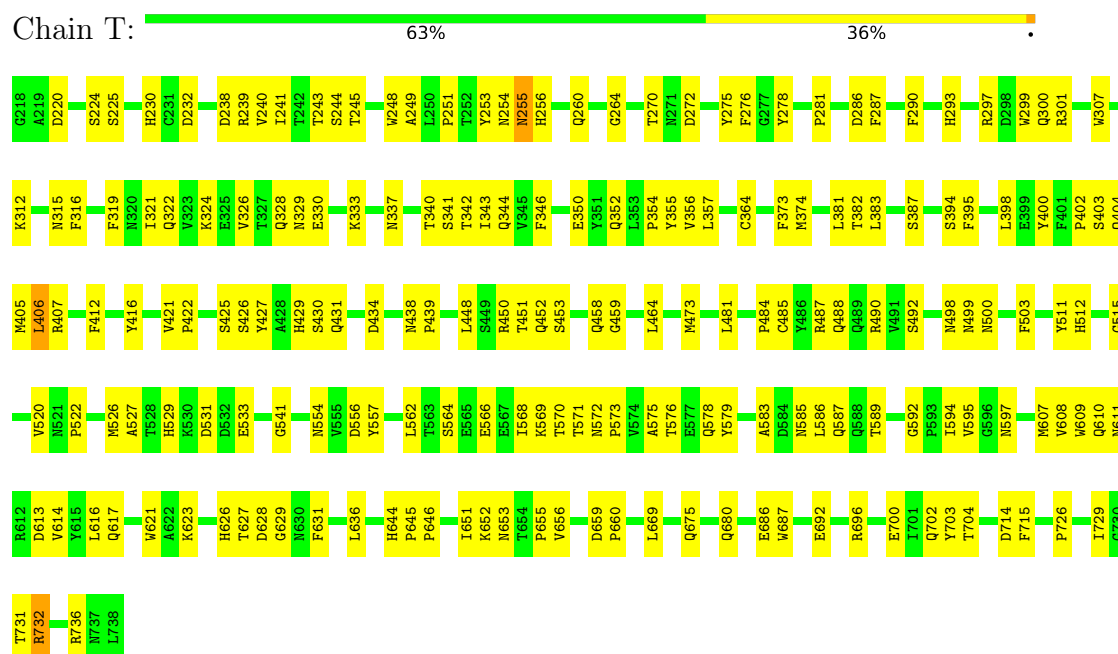
• Molecule 1: Capsid protein VP1

Chain S:  63% 36%

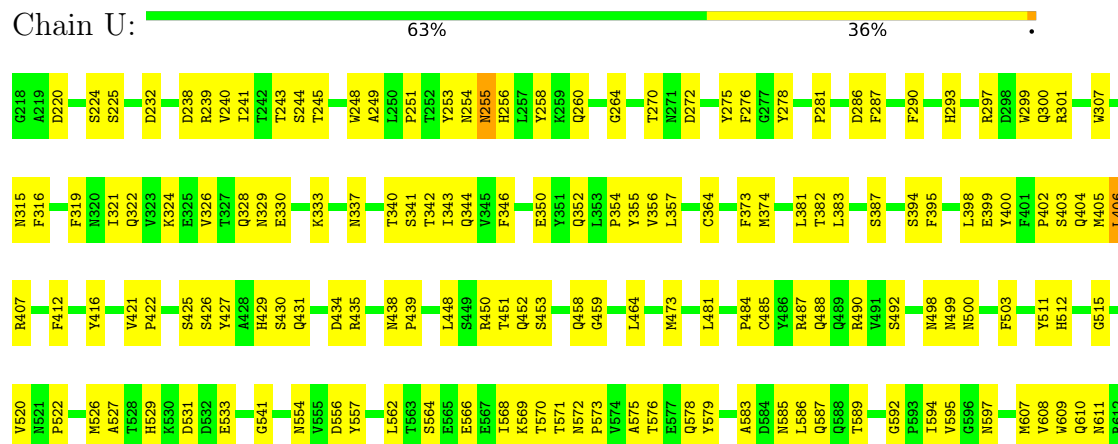


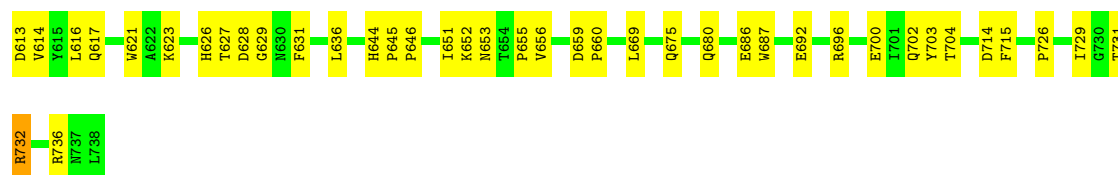


- Molecule 1: Capsid protein VP1



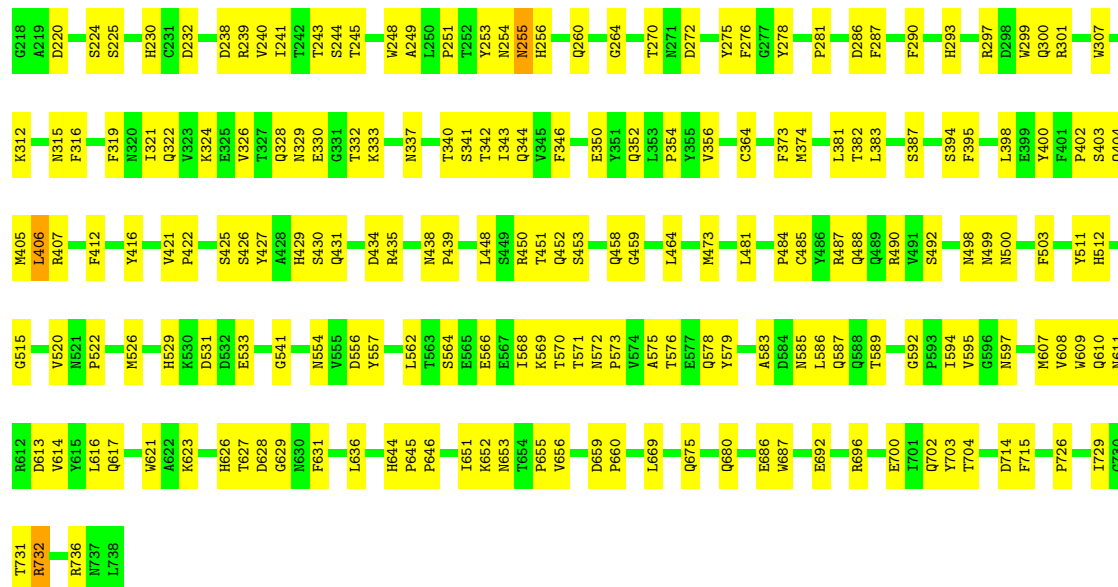
- Molecule 1: Capsid protein VP1





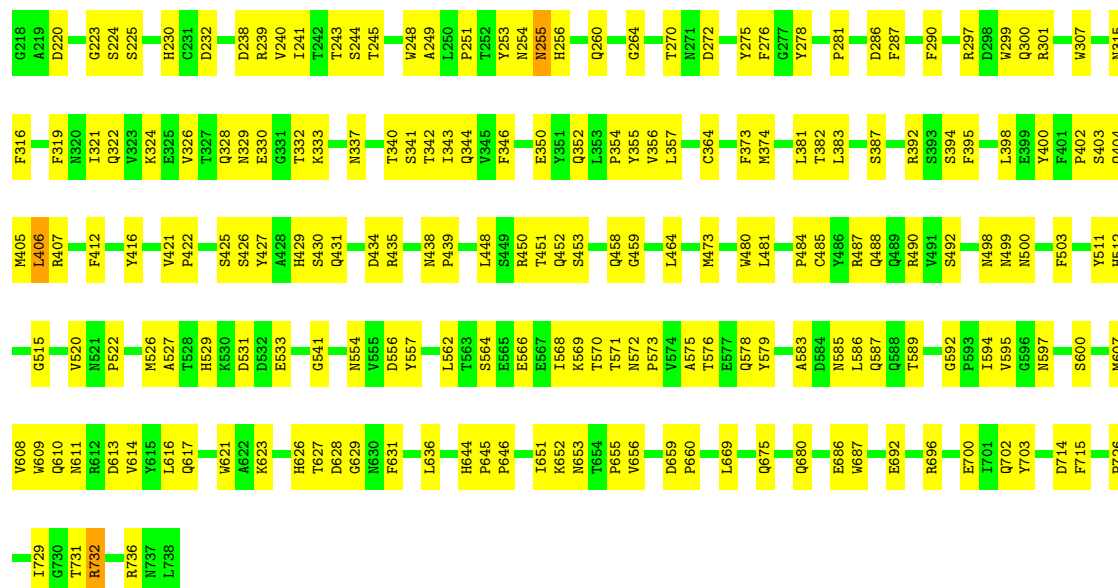
• Molecule 1: Capsid protein VP1

Chain V: 63% 36%



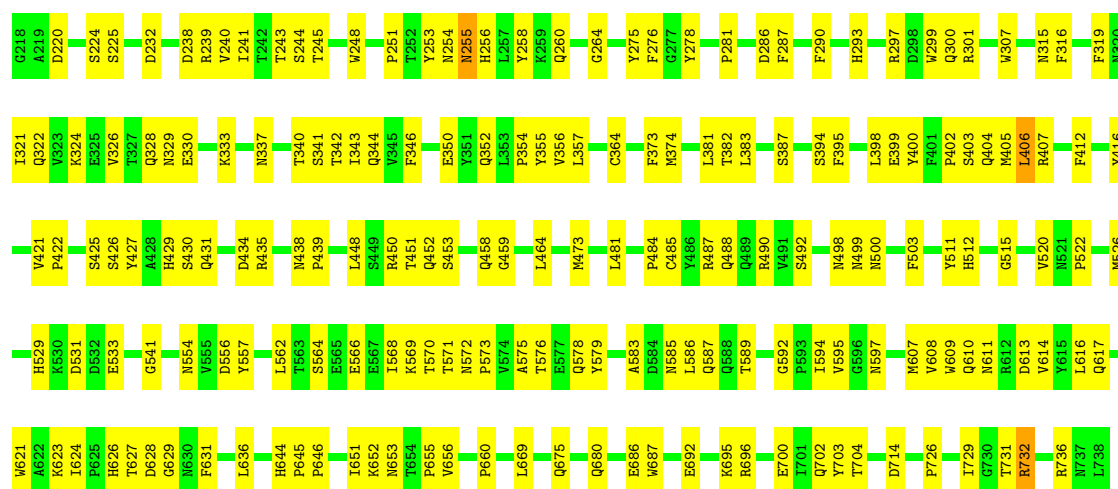
• Molecule 1: Capsid protein VP1

Chain W: 63% 37%



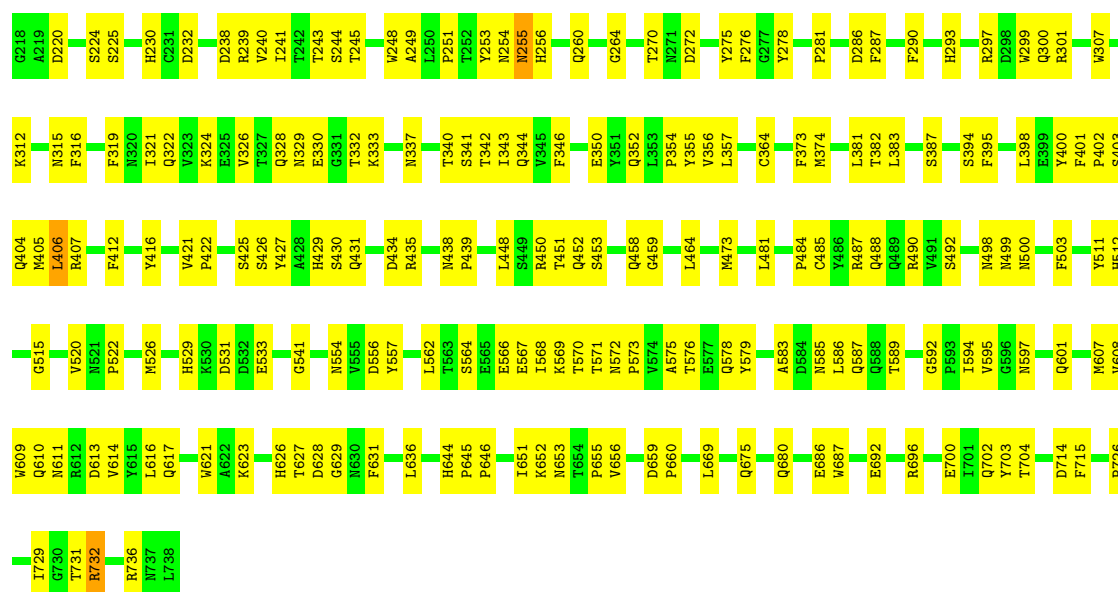
• Molecule 1: Capsid protein VP1

Chain X:  64% 36%



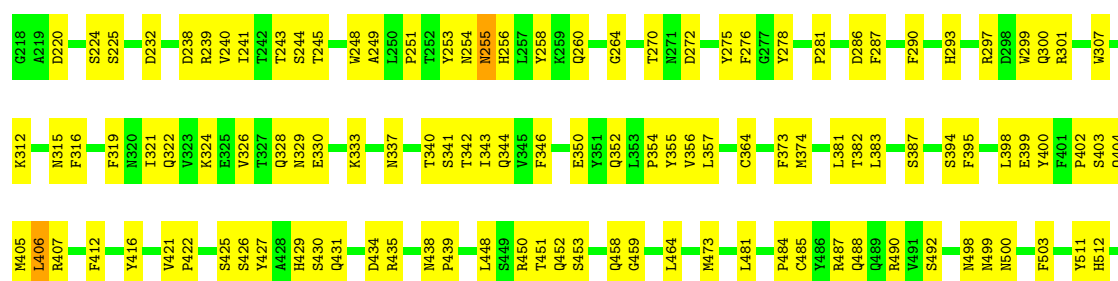
• Molecule 1: Capsid protein VP1

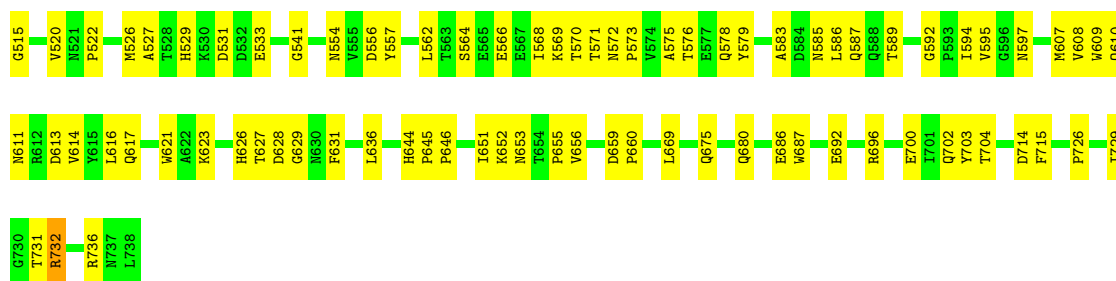
Chain Y:  62% 37%



• Molecule 1: Capsid protein VP1

Chain Z:  63% 37%





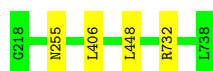
- Molecule 1: Capsid protein VP1

Chain a:  99%



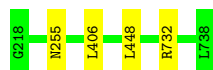
- Molecule 1: Capsid protein VP1

Chain b:  99%



- Molecule 1: Capsid protein VP1

Chain c:  99%



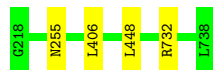
- Molecule 1: Capsid protein VP1

Chain d:  99%



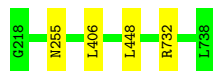
- Molecule 1: Capsid protein VP1

Chain e:  99%



- Molecule 1: Capsid protein VP1

Chain f:  99%



- Molecule 1: Capsid protein VP1

Chain g:  99% .



- Molecule 1: Capsid protein VP1

Chain h:  99% .



- Molecule 1: Capsid protein VP1

Chain i:  99% .



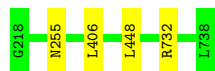
- Molecule 1: Capsid protein VP1

Chain j:  99% .



- Molecule 1: Capsid protein VP1

Chain k:  99% .



- Molecule 1: Capsid protein VP1

Chain l:  99% .



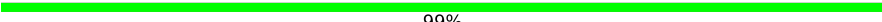
- Molecule 1: Capsid protein VP1

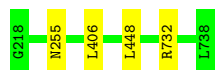
Chain m:  99% .



- Molecule 1: Capsid protein VP1



Chain n:  99%



- Molecule 1: Capsid protein VP1

Chain o:  99%



- Molecule 1: Capsid protein VP1

Chain p:  99%



- Molecule 1: Capsid protein VP1

Chain q:  99%



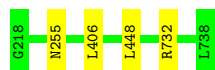
- Molecule 1: Capsid protein VP1

Chain r:  99%



- Molecule 1: Capsid protein VP1

Chain s:  99%



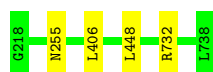
- Molecule 1: Capsid protein VP1

Chain t:  99%



- Molecule 1: Capsid protein VP1

Chain u:  99%



- Molecule 1: Capsid protein VP1

Chain v: 99%



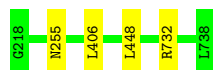
- Molecule 1: Capsid protein VP1

Chain w: 99%



- Molecule 1: Capsid protein VP1

Chain x: 99%



- Molecule 1: Capsid protein VP1

Chain y: 99%



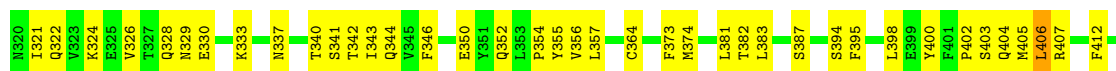
- Molecule 1: Capsid protein VP1

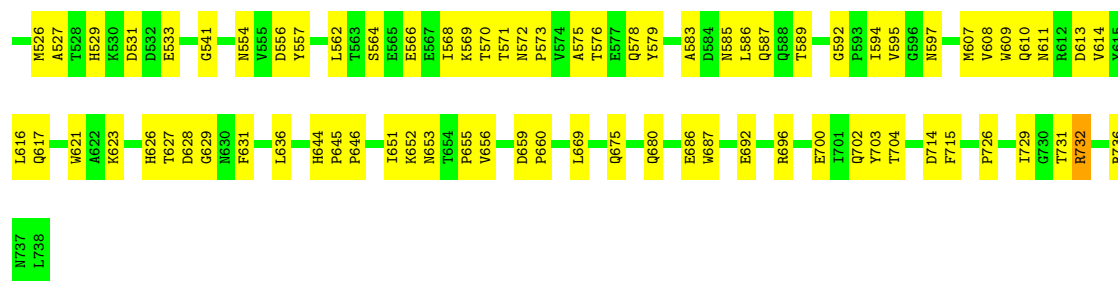
Chain z: 99%



- Molecule 1: Capsid protein VP1

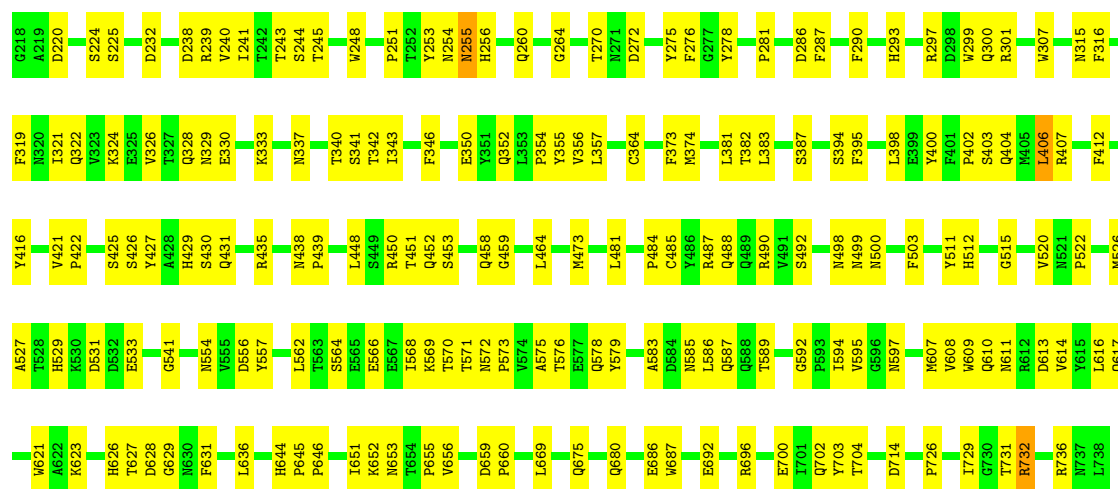
Chain 1: 64%





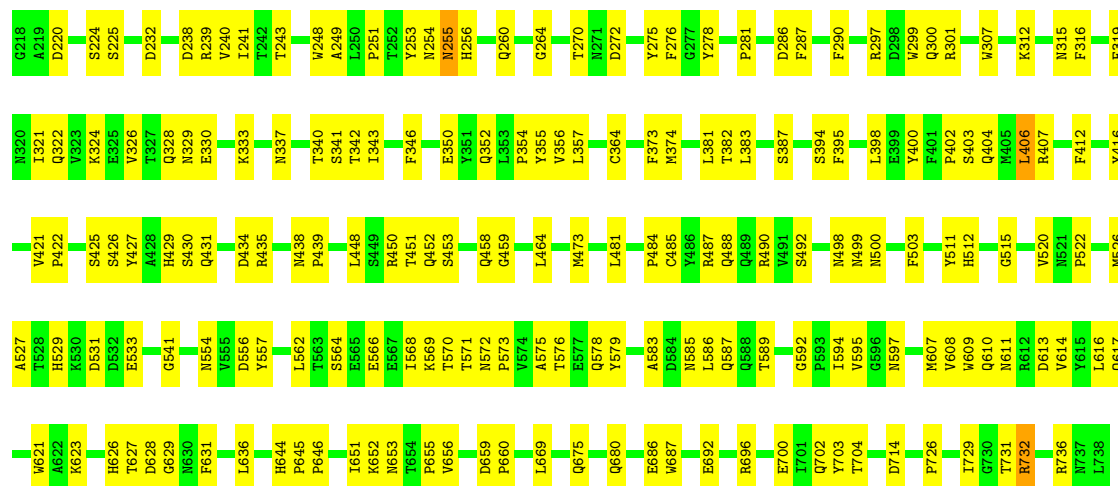
• Molecule 1: Capsid protein VP1

Chain 2: 64% 35%



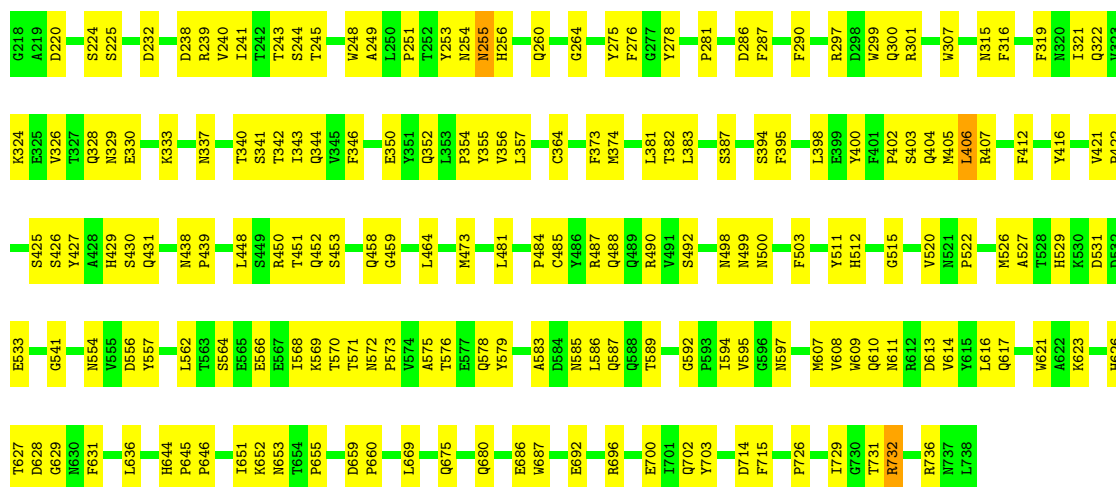
• Molecule 1: Capsid protein VP1

Chain 3: 64% 35%



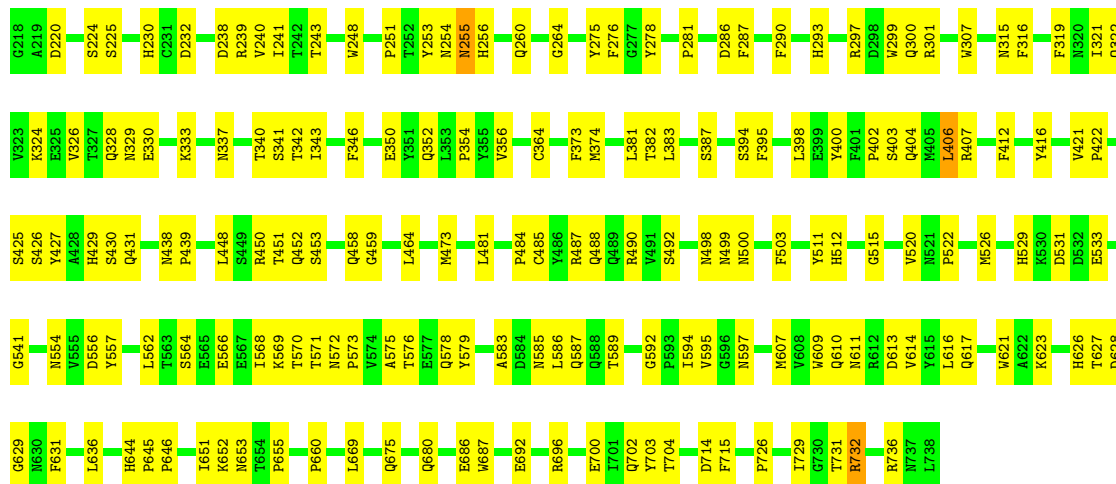
• Molecule 1: Capsid protein VP1

Chain 4: 65% 35%



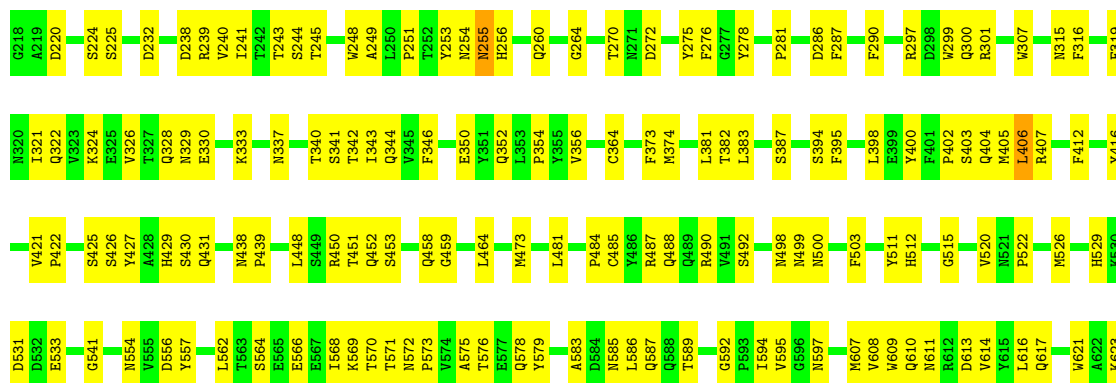
### • Molecule 1: Capsid protein VP1

Chain 5: 66% 33%



### • Molecule 1: Capsid protein VP1

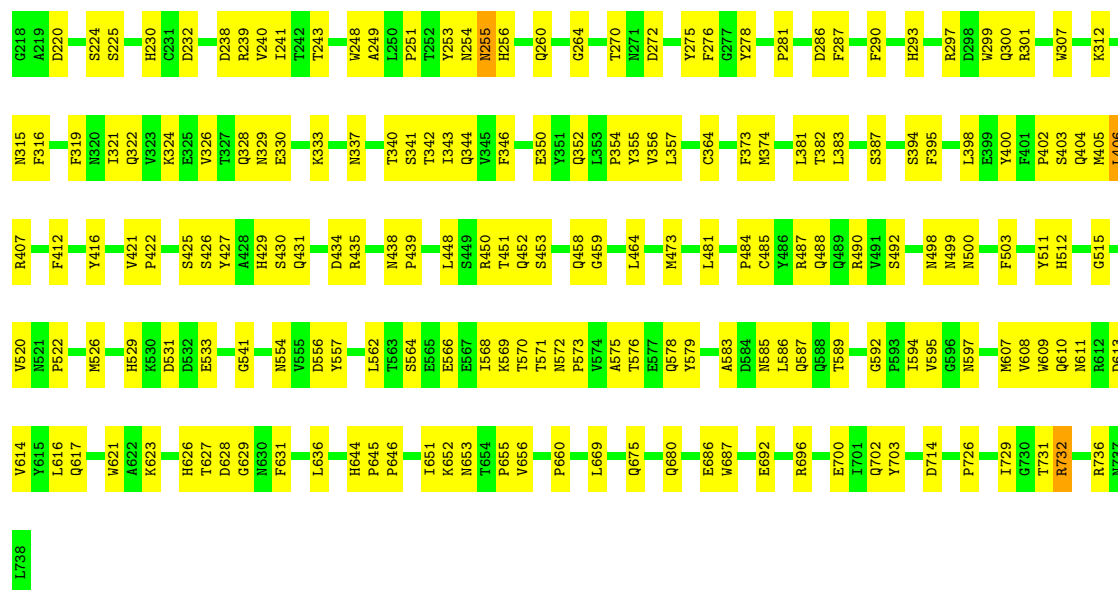
Chain 6: 65% 35%





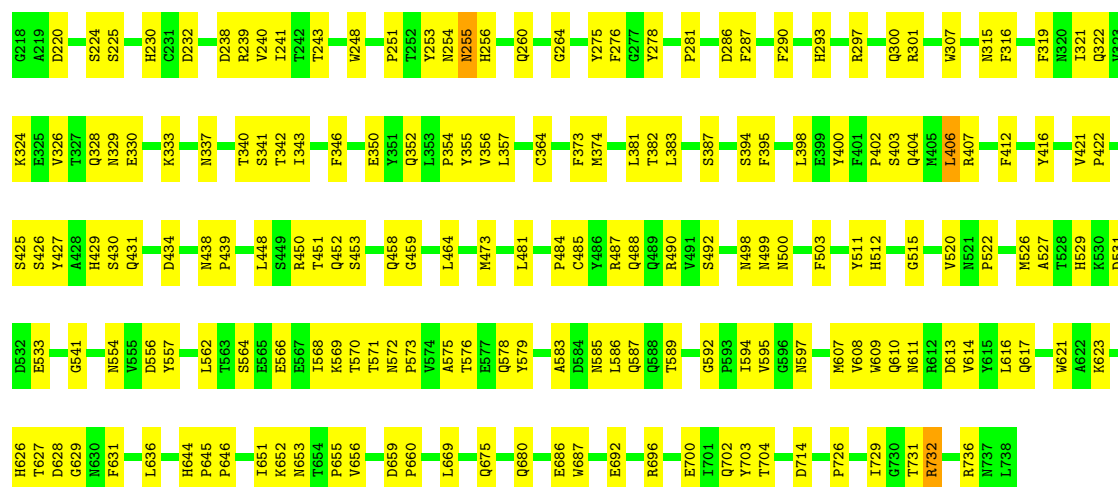
• Molecule 1: Capsid protein VP1

Chain 7: 64% 35%



• Molecule 1: Capsid protein VP1

Chain 8: 65% 34%



## 4 Experimental information

Property	Value	Source
Reconstruction method	SINGLE PARTICLE	Depositor
Imposed symmetry	POINT, I	Depositor
Number of particles used	52912	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 ( $e^-/\text{\AA}^2$ )	67	Depositor
Minimum defocus (nm)	Not provided	Depositor
Maximum defocus (nm)	Not provided	Depositor
Magnification	Not provided	Depositor
Image detector	DIRECT ELECTRON DE-20 (5k x 3k)	Depositor

## 5 Model quality [i](#)

### 5.1 Standard geometry [i](#)

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	1	0.52	0/4261	0.55	0/5810
1	2	0.52	0/4261	0.55	0/5810
1	3	0.52	0/4261	0.55	0/5810
1	4	0.52	0/4261	0.55	0/5810
1	5	0.52	0/4261	0.55	0/5810
1	6	0.52	0/4261	0.55	0/5810
1	7	0.52	0/4261	0.55	0/5810
1	8	0.52	0/4261	0.55	0/5810
1	A	0.52	0/4261	0.55	0/5810
1	B	0.52	0/4261	0.55	0/5810
1	C	0.52	0/4261	0.55	0/5810
1	D	0.52	0/4261	0.55	0/5810
1	E	0.52	0/4261	0.55	0/5810
1	F	0.52	0/4261	0.55	0/5810
1	G	0.52	0/4261	0.55	0/5810
1	H	0.52	0/4261	0.55	0/5810
1	I	0.52	0/4261	0.55	0/5810
1	J	0.52	0/4261	0.55	0/5810
1	K	0.52	0/4261	0.55	0/5810
1	L	0.52	0/4261	0.55	0/5810
1	M	0.52	0/4261	0.55	0/5810
1	N	0.52	0/4261	0.55	0/5810
1	O	0.52	0/4261	0.55	0/5810
1	P	0.52	0/4261	0.55	0/5810
1	Q	0.52	0/4261	0.55	0/5810
1	R	0.52	0/4261	0.55	0/5810
1	S	0.52	0/4261	0.55	0/5810
1	T	0.52	0/4261	0.55	0/5810
1	U	0.52	0/4261	0.55	0/5810
1	V	0.52	0/4261	0.55	0/5810
1	W	0.52	0/4261	0.55	0/5810
1	X	0.52	0/4261	0.55	0/5810
1	Y	0.52	0/4261	0.55	0/5810
1	Z	0.52	0/4261	0.55	0/5810

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	# Z  >2	RMSZ	# Z  >2
1	a	0.52	0/4261	0.55	0/5810
1	b	0.52	0/4261	0.55	0/5810
1	c	0.52	0/4261	0.55	0/5810
1	d	0.52	0/4261	0.55	0/5810
1	e	0.52	0/4261	0.55	0/5810
1	f	0.52	0/4261	0.55	0/5810
1	g	0.52	0/4261	0.55	0/5810
1	h	0.52	0/4261	0.55	0/5810
1	i	0.52	0/4261	0.55	0/5810
1	j	0.52	0/4261	0.55	0/5810
1	k	0.52	0/4261	0.55	0/5810
1	l	0.52	0/4261	0.55	0/5810
1	m	0.52	0/4261	0.55	0/5810
1	n	0.52	0/4261	0.55	0/5810
1	o	0.52	0/4261	0.55	0/5810
1	p	0.52	0/4261	0.55	0/5810
1	q	0.52	0/4261	0.55	0/5810
1	r	0.52	0/4261	0.55	0/5810
1	s	0.52	0/4261	0.55	0/5810
1	t	0.52	0/4261	0.55	0/5810
1	u	0.52	0/4261	0.55	0/5810
1	v	0.52	0/4261	0.55	0/5810
1	w	0.52	0/4261	0.55	0/5810
1	x	0.52	0/4261	0.55	0/5810
1	y	0.52	0/4261	0.55	0/5810
1	z	0.52	0/4261	0.55	0/5810
All	All	0.52	0/255660	0.55	0/348600

There are no bond length outliers.

There are no bond angle outliers.

There are no chirality outliers.

There are no planarity outliers.

## 5.2 Too-close contacts ⓘ

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



Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	1	4138	0	3900	217	0
1	2	4138	0	3900	215	0
1	3	4138	0	3900	217	0
1	4	4138	0	3900	214	0
1	5	4138	0	3900	211	0
1	6	4138	0	3900	212	0
1	7	4138	0	3900	217	0
1	8	4138	0	3900	213	0
1	A	4138	0	3900	299	0
1	B	4138	0	3900	282	0
1	C	4138	0	3900	292	0
1	D	4138	0	3900	296	0
1	E	4138	0	3900	298	0
1	F	4138	0	3900	294	0
1	G	4138	0	3900	298	0
1	H	4138	0	3900	283	0
1	I	4138	0	3900	280	0
1	J	4138	0	3900	291	0
1	K	4138	0	3900	300	0
1	L	4138	0	3900	296	0
1	M	4138	0	3900	293	0
1	N	4138	0	3900	292	0
1	O	4138	0	3900	296	0
1	P	4138	0	3900	283	0
1	Q	4138	0	3900	283	0
1	R	4138	0	3900	272	0
1	S	4138	0	3900	274	0
1	T	4138	0	3900	292	0
1	U	4138	0	3900	299	0
1	V	4138	0	3900	298	0
1	W	4138	0	3900	308	0
1	X	4138	0	3900	297	0
1	Y	4138	0	3900	302	0
1	Z	4138	0	3900	298	0
1	a	4138	0	3900	0	0
1	b	4138	0	3900	0	0
1	c	4138	0	3900	0	0
1	d	4138	0	3900	0	0
1	e	4138	0	3900	0	0
1	f	4138	0	3900	0	0
1	g	4138	0	3900	0	0
1	h	4138	0	3900	0	0
1	i	4138	0	3900	0	0

*Continued on next page...*

*Continued from previous page...*

Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	j	4138	0	3900	0	0
1	k	4138	0	3900	0	0
1	l	4138	0	3900	0	0
1	m	4138	0	3900	0	0
1	n	4138	0	3900	0	0
1	o	4138	0	3900	0	0
1	p	4138	0	3900	0	0
1	q	4138	0	3900	0	0
1	r	4138	0	3900	0	0
1	s	4138	0	3900	0	0
1	t	4138	0	3900	0	0
1	u	4138	0	3900	0	0
1	v	4138	0	3900	0	0
1	w	4138	0	3900	0	0
1	x	4138	0	3900	0	0
1	y	4138	0	3900	0	0
1	z	4138	0	3900	0	0
All	All	248280	0	234000	7130	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 15.

All (7130) 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:G:613:ASP:HB3	1:G:732:ARG:HD2	1.28	1.16
1:P:613:ASP:HB3	1:P:732:ARG:HD2	1.28	1.16
1:H:613:ASP:HB3	1:H:732:ARG:HD2	1.28	1.16
1:K:613:ASP:HB3	1:K:732:ARG:HD2	1.28	1.16
1:C:613:ASP:HB3	1:C:732:ARG:HD2	1.28	1.15
1:I:613:ASP:HB3	1:I:732:ARG:HD2	1.28	1.15
1:R:613:ASP:HB3	1:R:732:ARG:HD2	1.28	1.14
1:W:613:ASP:HB3	1:W:732:ARG:HD2	1.28	1.14
1:S:613:ASP:HB2	1:S:731:THR:HG22	1.30	1.14
1:H:613:ASP:HB2	1:H:731:THR:HG22	1.30	1.14
1:T:613:ASP:HB2	1:T:731:THR:HG22	1.30	1.14
1:Y:613:ASP:HB3	1:Y:732:ARG:HD2	1.28	1.14
1:E:613:ASP:HB3	1:E:732:ARG:HD2	1.28	1.14
1:R:613:ASP:HB2	1:R:731:THR:HG22	1.30	1.14
1:M:613:ASP:HB2	1:M:731:THR:HG22	1.30	1.14
1:J:613:ASP:HB2	1:J:731:THR:HG22	1.30	1.14

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:O:613:ASP:HB3	1:O:732:ARG:HD2	1.28	1.13
1:U:613:ASP:HB3	1:U:732:ARG:HD2	1.28	1.13
1:D:613:ASP:HB2	1:D:731:THR:HG22	1.30	1.13
1:V:613:ASP:HB3	1:V:732:ARG:HD2	1.28	1.13
1:E:613:ASP:HB2	1:E:731:THR:HG22	1.30	1.13
1:5:613:ASP:HB2	1:5:731:THR:HG22	1.30	1.13
1:7:613:ASP:HB2	1:7:731:THR:HG22	1.30	1.13
1:A:613:ASP:HB3	1:A:732:ARG:HD2	1.28	1.13
1:Q:613:ASP:HB2	1:Q:731:THR:HG22	1.30	1.13
1:Z:613:ASP:HB2	1:Z:731:THR:HG22	1.30	1.13
1:2:613:ASP:HB2	1:2:731:THR:HG22	1.30	1.13
1:K:613:ASP:HB2	1:K:731:THR:HG22	1.30	1.13
1:L:613:ASP:HB2	1:L:731:THR:HG22	1.30	1.13
1:M:613:ASP:HB3	1:M:732:ARG:HD2	1.28	1.13
1:N:613:ASP:HB3	1:N:732:ARG:HD2	1.28	1.13
1:S:613:ASP:HB3	1:S:732:ARG:HD2	1.28	1.13
1:W:609:TRP:NE1	1:X:629:GLY:HA3	69.43	1.13
1:C:613:ASP:HB2	1:C:731:THR:HG22	1.30	1.12
1:B:613:ASP:HB3	1:B:732:ARG:HD2	1.28	1.12
1:T:613:ASP:HB3	1:T:732:ARG:HD2	1.28	1.12
1:X:613:ASP:HB2	1:X:731:THR:HG22	1.30	1.12
1:Z:613:ASP:HB3	1:Z:732:ARG:HD2	1.28	1.12
1:3:613:ASP:HB3	1:3:732:ARG:HD2	1.28	1.12
1:J:613:ASP:HB3	1:J:732:ARG:HD2	1.28	1.12
1:U:613:ASP:HB2	1:U:731:THR:HG22	1.30	1.12
1:V:613:ASP:HB2	1:V:731:THR:HG22	1.30	1.12
1:N:613:ASP:HB2	1:N:731:THR:HG22	1.30	1.12
1:X:609:TRP:NE1	1:Y:629:GLY:HA3	55.87	1.12
1:A:609:TRP:NE1	1:8:629:GLY:HA3	126.18	1.11
1:N:609:TRP:NE1	1:P:629:GLY:HA3	1.66	1.11
1:W:613:ASP:HB2	1:W:731:THR:HG22	1.30	1.11
1:A:613:ASP:HB2	1:A:731:THR:HG22	1.30	1.11
1:A:609:TRP:NE1	1:G:629:GLY:HA3	1.66	1.11
1:G:613:ASP:HB2	1:G:731:THR:HG22	1.30	1.11
1:V:629:GLY:HA3	1:X:609:TRP:NE1	1.66	1.11
1:2:613:ASP:HB3	1:2:732:ARG:HD2	1.28	1.11
1:6:609:TRP:NE1	1:7:629:GLY:HA3	1.66	1.11
1:E:629:GLY:HA3	1:F:609:TRP:NE1	1.66	1.11
1:F:613:ASP:HB3	1:F:732:ARG:HD2	1.28	1.11
1:A:629:GLY:HA3	1:K:609:TRP:NE1	107.11	1.11
1:R:609:TRP:NE1	1:S:629:GLY:HA3	1.66	1.11

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:629:GLY:HA3	1:V:609:TRP:NE1	113.89	1.11
1:H:629:GLY:HA3	1:Y:609:TRP:NE1	1.66	1.11
1:C:609:TRP:NE1	1:O:629:GLY:HA3	132.69	1.11
1:D:609:TRP:NE1	1:N:629:GLY:HA3	1.66	1.11
1:D:613:ASP:HB3	1:D:732:ARG:HD2	1.28	1.11
1:J:609:TRP:NE1	1:K:629:GLY:HA3	69.43	1.11
1:4:613:ASP:HB2	1:4:731:THR:HG22	1.30	1.11
1:I:613:ASP:HB2	1:I:731:THR:HG22	1.30	1.11
1:O:609:TRP:NE1	1:P:629:GLY:HA3	55.87	1.11
1:F:340:THR:CA	1:F:407:ARG:HH21	1.64	1.10
1:F:609:TRP:NE1	1:H:629:GLY:HA3	120.42	1.10
1:J:340:THR:CA	1:J:407:ARG:HH21	1.65	1.10
1:J:609:TRP:NE1	1:L:629:GLY:HA3	1.66	1.10
1:Z:340:THR:CA	1:Z:407:ARG:HH21	1.65	1.10
1:Z:609:TRP:NE1	1:I:629:GLY:HA3	82.93	1.10
1:A:629:GLY:HA3	1:I:609:TRP:NE1	1.66	1.10
1:L:340:THR:CA	1:L:407:ARG:HH21	1.65	1.10
1:L:609:TRP:NE1	1:T:629:GLY:HA3	194.67	1.10
1:C:629:GLY:HA3	1:M:609:TRP:NE1	1.66	1.10
1:1:613:ASP:HB2	1:1:731:THR:HG22	1.30	1.10
1:G:609:TRP:NE1	1:I:629:GLY:HA3	1.66	1.10
1:Q:340:THR:CA	1:Q:407:ARG:HH21	1.65	1.10
1:R:629:GLY:HA3	1:U:609:TRP:NE1	1.66	1.10
1:B:629:GLY:HA3	1:L:609:TRP:NE1	1.66	1.10
1:W:340:THR:CA	1:W:407:ARG:HH21	1.64	1.10
1:X:613:ASP:HB3	1:X:732:ARG:HD2	1.28	1.10
1:C:629:GLY:HA3	1:P:609:TRP:NE1	68.92	1.10
1:T:629:GLY:HA3	1:V:609:TRP:NE1	112.00	1.10
1:B:629:GLY:HA3	1:C:609:TRP:NE1	55.87	1.10
1:F:613:ASP:HB2	1:F:731:THR:HG22	1.30	1.10
1:N:609:TRP:NE1	1:O:629:GLY:HA3	69.43	1.10
1:3:629:GLY:HA3	1:4:609:TRP:NE1	1.66	1.10
1:L:613:ASP:HB3	1:L:732:ARG:HD2	1.28	1.10
1:5:609:TRP:NE1	1:6:629:GLY:HA3	1.66	1.10
1:E:340:THR:CA	1:E:407:ARG:HH21	1.65	1.10
1:I:340:THR:CA	1:I:407:ARG:HH21	1.65	1.10
1:F:629:GLY:HA3	1:Q:609:TRP:NE1	1.66	1.10
1:5:340:THR:CA	1:5:407:ARG:HH21	1.65	1.10
1:C:340:THR:CA	1:C:407:ARG:HH21	1.65	1.10
1:Q:609:TRP:NE1	1:R:629:GLY:HA3	69.43	1.10
1:V:340:THR:CA	1:V:407:ARG:HH21	1.64	1.10

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:W:609:TRP:NE1	1:Y:629:GLY:HA3	1.66	1.10
1:6:613:ASP:HB2	1:6:731:THR:HG22	1.30	1.09
1:O:613:ASP:HB2	1:O:731:THR:HG22	1.30	1.09
1:X:340:THR:CA	1:X:407:ARG:HH21	1.64	1.09
1:Y:340:THR:CA	1:Y:407:ARG:HH21	1.64	1.09
1:1:340:THR:CA	1:1:407:ARG:HH21	1.64	1.09
1:4:340:THR:CA	1:4:407:ARG:HH21	1.65	1.09
1:G:629:GLY:HA3	1:H:609:TRP:NE1	69.43	1.09
1:I:609:TRP:NE1	1:J:629:GLY:HA3	55.87	1.09
1:R:340:THR:CA	1:R:407:ARG:HH21	1.65	1.09
1:F:629:GLY:HA3	1:G:609:TRP:NE1	81.45	1.09
1:I:629:GLY:HA3	1:K:609:TRP:NE1	112.01	1.09
1:U:340:THR:CA	1:U:407:ARG:HH21	1.65	1.09
1:7:340:THR:CA	1:7:407:ARG:HH21	1.65	1.09
1:N:340:THR:CA	1:N:407:ARG:HH21	1.65	1.09
1:T:340:THR:CA	1:T:407:ARG:HH21	1.64	1.09
1:4:613:ASP:HB3	1:4:732:ARG:HD2	1.28	1.09
1:D:609:TRP:NE1	1:L:629:GLY:HA3	120.42	1.09
1:D:629:GLY:HA3	1:P:609:TRP:NE1	1.65	1.09
1:S:340:THR:CA	1:S:407:ARG:HH21	1.64	1.09
1:D:340:THR:CA	1:D:407:ARG:HH21	1.64	1.09
1:M:340:THR:CA	1:M:407:ARG:HH21	1.65	1.09
1:Q:613:ASP:HB3	1:Q:732:ARG:HD2	1.28	1.09
1:B:609:TRP:NE1	1:M:629:GLY:HA3	84.60	1.09
1:Z:629:GLY:HA3	1:2:609:TRP:NE1	71.04	1.09
1:3:613:ASP:HB2	1:3:731:THR:HG22	1.30	1.09
1:6:340:THR:CA	1:6:407:ARG:HH21	1.64	1.09
1:K:340:THR:CA	1:K:407:ARG:HH21	1.64	1.09
1:K:629:GLY:HA3	1:8:609:TRP:NE1	1.65	1.09
1:A:340:THR:CA	1:A:407:ARG:HH21	1.64	1.09
1:B:340:THR:CA	1:B:407:ARG:HH21	1.64	1.09
1:7:613:ASP:HB3	1:7:732:ARG:HD2	1.28	1.09
1:B:609:TRP:NE1	1:J:629:GLY:HA3	1.67	1.09
1:G:340:THR:CA	1:G:407:ARG:HH21	1.65	1.09
1:P:340:THR:CA	1:P:407:ARG:HH21	1.65	1.09
1:T:609:TRP:NE1	1:U:629:GLY:HA3	55.87	1.09
1:8:340:THR:CA	1:8:407:ARG:HH21	1.64	1.08
1:H:340:THR:CA	1:H:407:ARG:HH21	1.65	1.08
1:M:609:TRP:NE1	1:N:629:GLY:HA3	55.87	1.08
1:1:613:ASP:HB3	1:1:732:ARG:HD2	1.28	1.08
1:5:629:GLY:HA3	1:7:609:TRP:NE1	1.66	1.08

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:P:613:ASP:HB2	1:P:731:THR:HG22	1.30	1.08
1:E:609:TRP:NE1	1:Q:629:GLY:HA3	1.66	1.08
1:Q:629:GLY:HA3	1:S:609:TRP:NE1	81.45	1.08
1:D:629:GLY:HA3	1:T:609:TRP:NE1	117.45	1.08
1:3:340:THR:CA	1:3:407:ARG:HH21	1.64	1.08
1:5:613:ASP:HB3	1:5:732:ARG:HD2	1.28	1.08
1:B:613:ASP:HB2	1:B:731:THR:HG22	1.30	1.08
1:Z:609:TRP:NE1	1:4:629:GLY:HA3	1.66	1.08
1:Z:629:GLY:HA3	1:3:609:TRP:NE1	1.66	1.08
1:E:609:TRP:NE1	1:X:629:GLY:HA3	133.25	1.08
1:H:609:TRP:NE1	1:W:629:GLY:HA3	1.66	1.08
1:O:340:THR:CA	1:O:407:ARG:HH21	1.64	1.08
1:1:609:TRP:NE1	1:2:629:GLY:HA3	1.66	1.08
1:W:629:GLY:HA3	1:Y:609:TRP:NE1	16.79	1.08
1:2:340:THR:CA	1:2:407:ARG:HH21	1.65	1.08
1:Y:613:ASP:HB2	1:Y:731:THR:HG22	1.30	1.08
1:M:629:GLY:HA3	1:O:609:TRP:NE1	112.00	1.08
1:U:609:TRP:NE1	1:V:629:GLY:HA3	69.43	1.08
1:6:613:ASP:HB3	1:6:732:ARG:HD2	1.28	1.07
1:S:609:TRP:NE1	1:U:629:GLY:HA3	1.66	1.07
1:8:613:ASP:HB2	1:8:731:THR:HG22	1.30	1.06
1:8:613:ASP:HB3	1:8:732:ARG:HD2	1.28	1.06
1:D:613:ASP:HB3	1:D:732:ARG:CD	1.87	1.05
1:K:613:ASP:HB3	1:K:732:ARG:CD	1.87	1.05
1:H:613:ASP:HB3	1:H:732:ARG:CD	1.87	1.05
1:A:613:ASP:HB3	1:A:732:ARG:CD	1.87	1.05
1:O:613:ASP:HB3	1:O:732:ARG:CD	1.87	1.05
1:S:613:ASP:HB3	1:S:732:ARG:CD	1.87	1.05
1:W:613:ASP:HB3	1:W:732:ARG:CD	1.87	1.05
1:Q:613:ASP:HB3	1:Q:732:ARG:CD	1.87	1.05
1:8:613:ASP:HB3	1:8:732:ARG:CD	1.87	1.05
1:R:613:ASP:HB3	1:R:732:ARG:CD	1.87	1.05
1:Y:613:ASP:HB3	1:Y:732:ARG:CD	1.87	1.05
1:Z:613:ASP:HB3	1:Z:732:ARG:CD	1.87	1.05
1:L:613:ASP:HB3	1:L:732:ARG:CD	1.87	1.05
1:T:613:ASP:HB3	1:T:732:ARG:CD	1.87	1.05
1:C:613:ASP:HB3	1:C:732:ARG:CD	1.87	1.05
1:N:613:ASP:HB3	1:N:732:ARG:CD	1.87	1.05
1:P:613:ASP:HB3	1:P:732:ARG:CD	1.87	1.05
1:U:613:ASP:HB3	1:U:732:ARG:CD	1.87	1.04
1:4:613:ASP:HB3	1:4:732:ARG:CD	1.87	1.04

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:X:613:ASP:HB3	1:X:732:ARG:CD	1.87	1.04
1:2:613:ASP:HB3	1:2:732:ARG:CD	1.87	1.04
1:B:613:ASP:HB3	1:B:732:ARG:CD	1.87	1.04
1:J:613:ASP:HB3	1:J:732:ARG:CD	1.87	1.04
1:M:613:ASP:HB3	1:M:732:ARG:CD	1.87	1.04
1:F:613:ASP:HB3	1:F:732:ARG:CD	1.87	1.04
1:G:613:ASP:HB3	1:G:732:ARG:CD	1.87	1.04
1:3:613:ASP:HB3	1:3:732:ARG:CD	1.87	1.04
1:I:613:ASP:HB3	1:I:732:ARG:CD	1.87	1.04
1:E:613:ASP:HB3	1:E:732:ARG:CD	1.87	1.04
1:V:613:ASP:HB3	1:V:732:ARG:CD	1.87	1.04
1:7:613:ASP:HB3	1:7:732:ARG:CD	1.87	1.03
1:5:613:ASP:HB3	1:5:732:ARG:CD	1.87	1.03
1:6:613:ASP:HB3	1:6:732:ARG:CD	1.87	1.03
1:1:613:ASP:HB3	1:1:732:ARG:CD	1.87	1.02
1:W:609:TRP:CD1	1:X:629:GLY:HA3	68.63	1.01
1:B:629:GLY:HA3	1:C:609:TRP:CD1	55.06	0.99
1:B:629:GLY:HA3	1:L:609:TRP:CD1	1.98	0.99
1:3:629:GLY:HA3	1:4:609:TRP:CD1	1.98	0.99
1:Z:629:GLY:HA3	1:2:609:TRP:CD1	70.36	0.99
1:5:629:GLY:HA3	1:7:609:TRP:CD1	1.98	0.99
1:D:609:TRP:CD1	1:L:629:GLY:HA3	120.34	0.99
1:N:609:TRP:CD1	1:O:629:GLY:HA3	68.63	0.99
1:E:609:TRP:CD1	1:Q:629:GLY:HA3	1.98	0.99
1:V:629:GLY:HA3	1:X:609:TRP:CD1	1.98	0.99
1:K:629:GLY:HA3	1:8:609:TRP:CD1	1.97	0.99
1:6:609:TRP:CD1	1:7:629:GLY:HA3	1.98	0.99
1:E:629:GLY:HA3	1:F:609:TRP:CD1	1.98	0.99
1:D:629:GLY:HA3	1:P:609:TRP:CD1	1.97	0.99
1:C:629:GLY:HA3	1:M:609:TRP:CD1	1.98	0.99
1:M:609:TRP:CD1	1:N:629:GLY:HA3	55.06	0.99
1:E:629:GLY:HA3	1:V:609:TRP:CD1	113.92	0.99
1:G:629:GLY:HA3	1:H:609:TRP:CD1	68.63	0.99
1:I:629:GLY:HA3	1:K:609:TRP:CD1	111.52	0.99
1:X:609:TRP:CD1	1:Y:629:GLY:HA3	55.06	0.99
1:Z:609:TRP:CD1	1:4:629:GLY:HA3	1.98	0.99
1:J:609:TRP:CD1	1:L:629:GLY:HA3	1.98	0.98
1:N:609:TRP:CD1	1:P:629:GLY:HA3	1.98	0.98
1:Z:629:GLY:HA3	1:3:609:TRP:CD1	1.98	0.98
1:L:609:TRP:CD1	1:T:629:GLY:HA3	195.03	0.98
1:Z:609:TRP:CD1	1:1:629:GLY:HA3	83.36	0.98

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:629:GLY:HA3	1:O:609:TRP:CD1	111.51	0.98
1:1:609:TRP:CD1	1:2:629:GLY:HA3	1.98	0.98
1:A:609:TRP:CD1	1:8:629:GLY:HA3	127.53	0.98
1:G:609:TRP:CD1	1:I:629:GLY:HA3	1.97	0.98
1:F:609:TRP:CD1	1:H:629:GLY:HA3	120.34	0.98
1:H:609:TRP:CD1	1:W:629:GLY:HA3	1.98	0.98
1:C:629:GLY:HA3	1:P:609:TRP:CD1	69.43	0.98
1:Q:609:TRP:CD1	1:R:629:GLY:HA3	68.63	0.98
1:D:629:GLY:HA3	1:T:609:TRP:CD1	117.35	0.98
1:U:609:TRP:CD1	1:V:629:GLY:HA3	68.63	0.98
1:W:609:TRP:CD1	1:Y:629:GLY:HA3	1.98	0.98
1:J:609:TRP:CD1	1:K:629:GLY:HA3	68.63	0.98
1:D:609:TRP:CD1	1:N:629:GLY:HA3	1.98	0.98
1:Q:629:GLY:HA3	1:S:609:TRP:CD1	82.54	0.98
1:5:609:TRP:CD1	1:6:629:GLY:HA3	1.98	0.98
1:C:609:TRP:CD1	1:O:629:GLY:HA3	134.04	0.98
1:S:609:TRP:CD1	1:U:629:GLY:HA3	1.98	0.98
1:E:609:TRP:CD1	1:X:629:GLY:HA3	134.35	0.98
1:A:629:GLY:HA3	1:K:609:TRP:CD1	106.54	0.98
1:F:629:GLY:HA3	1:Q:609:TRP:CD1	1.98	0.98
1:T:629:GLY:HA3	1:V:609:TRP:CD1	111.51	0.98
1:R:629:GLY:HA3	1:U:609:TRP:CD1	1.98	0.97
1:A:629:GLY:HA3	1:I:609:TRP:CD1	1.98	0.97
1:R:609:TRP:CD1	1:S:629:GLY:HA3	1.98	0.97
1:T:609:TRP:CD1	1:U:629:GLY:HA3	55.06	0.97
1:A:609:TRP:CD1	1:G:629:GLY:HA3	1.98	0.97
1:I:609:TRP:CD1	1:J:629:GLY:HA3	55.06	0.97
1:B:609:TRP:CD1	1:M:629:GLY:HA3	85.83	0.97
1:H:629:GLY:HA3	1:Y:609:TRP:CD1	1.98	0.97
1:O:609:TRP:CD1	1:P:629:GLY:HA3	55.07	0.97
1:F:629:GLY:HA3	1:G:609:TRP:CD1	82.54	0.97
1:B:609:TRP:CD1	1:J:629:GLY:HA3	1.99	0.97
1:W:340:THR:HA	1:W:407:ARG:HH21	1.32	0.95
1:Z:340:THR:HA	1:Z:407:ARG:HH21	1.32	0.95
1:Q:340:THR:HA	1:Q:407:ARG:HH21	1.32	0.95
1:K:340:THR:HA	1:K:407:ARG:HH21	1.32	0.94
1:L:340:THR:HA	1:L:407:ARG:HH21	1.32	0.94
1:T:340:THR:HA	1:T:407:ARG:HH21	1.32	0.94
1:W:629:GLY:HA3	1:Y:609:TRP:CD1	17.68	0.94
1:G:340:THR:HA	1:G:407:ARG:HH21	1.32	0.94
1:H:340:THR:HA	1:H:407:ARG:HH21	1.32	0.94

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:6:340:THR:HA	1:6:407:ARG:HH21	1.32	0.94
1:1:340:THR:HA	1:1:407:ARG:HH21	1.32	0.94
1:O:340:THR:HA	1:O:407:ARG:HH21	1.32	0.94
1:1:340:THR:HA	1:1:407:ARG:HH21	1.32	0.94
1:3:340:THR:HA	1:3:407:ARG:HH21	1.32	0.94
1:B:340:THR:HA	1:B:407:ARG:HH21	1.32	0.94
1:R:340:THR:HA	1:R:407:ARG:HH21	1.32	0.94
1:F:340:THR:HA	1:F:407:ARG:HH21	1.32	0.94
1:M:340:THR:HA	1:M:407:ARG:HH21	1.32	0.94
1:A:340:THR:HA	1:A:407:ARG:NH2	1.83	0.94
1:E:340:THR:HA	1:E:407:ARG:NH2	1.83	0.94
1:H:340:THR:HA	1:H:407:ARG:NH2	1.83	0.94
1:S:340:THR:HA	1:S:407:ARG:NH2	1.83	0.94
1:T:340:THR:HA	1:T:407:ARG:NH2	1.83	0.94
1:X:340:THR:HA	1:X:407:ARG:HH21	1.32	0.94
1:1:340:THR:HA	1:1:407:ARG:NH2	1.83	0.94
1:7:340:THR:HA	1:7:407:ARG:NH2	1.83	0.94
1:W:340:THR:HA	1:W:407:ARG:NH2	1.83	0.94
1:A:340:THR:HA	1:A:407:ARG:HH21	1.32	0.94
1:B:340:THR:HA	1:B:407:ARG:NH2	1.83	0.94
1:N:340:THR:HA	1:N:407:ARG:NH2	1.83	0.94
1:V:340:THR:HA	1:V:407:ARG:NH2	1.83	0.94
1:Y:340:THR:HA	1:Y:407:ARG:NH2	1.83	0.94
1:D:340:THR:HA	1:D:407:ARG:HH21	1.32	0.93
1:L:340:THR:HA	1:L:407:ARG:NH2	1.83	0.93
1:Q:340:THR:HA	1:Q:407:ARG:NH2	1.83	0.93
1:R:340:THR:HA	1:R:407:ARG:NH2	1.83	0.93
1:Z:340:THR:HA	1:Z:407:ARG:NH2	1.83	0.93
1:G:340:THR:HA	1:G:407:ARG:NH2	1.83	0.93
1:K:340:THR:HA	1:K:407:ARG:NH2	1.83	0.93
1:P:340:THR:HA	1:P:407:ARG:NH2	1.83	0.93
1:5:340:THR:HA	1:5:407:ARG:NH2	1.83	0.93
1:8:340:THR:HA	1:8:407:ARG:NH2	1.83	0.93
1:D:340:THR:HA	1:D:407:ARG:NH2	1.83	0.93
1:F:340:THR:HA	1:F:407:ARG:NH2	1.83	0.93
1:U:340:THR:HA	1:U:407:ARG:NH2	1.83	0.93
1:2:340:THR:HA	1:2:407:ARG:NH2	1.83	0.93
1:6:340:THR:HA	1:6:407:ARG:NH2	1.83	0.93
1:I:340:THR:HA	1:I:407:ARG:NH2	1.83	0.93
1:J:340:THR:HA	1:J:407:ARG:NH2	1.83	0.93
1:M:340:THR:HA	1:M:407:ARG:NH2	1.83	0.93

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:O:340:THR:HA	1:O:407:ARG:NH2	1.83	0.93
1:S:340:THR:HA	1:S:407:ARG:HH21	1.32	0.93
1:3:340:THR:HA	1:3:407:ARG:NH2	1.83	0.93
1:C:340:THR:HA	1:C:407:ARG:NH2	1.83	0.93
1:U:340:THR:HA	1:U:407:ARG:HH21	1.32	0.92
1:X:340:THR:HA	1:X:407:ARG:NH2	1.83	0.92
1:C:340:THR:HA	1:C:407:ARG:HH21	1.32	0.92
1:V:340:THR:HA	1:V:407:ARG:HH21	1.32	0.92
1:4:340:THR:HA	1:4:407:ARG:NH2	1.83	0.92
1:Y:340:THR:HA	1:Y:407:ARG:HH21	1.32	0.92
1:J:340:THR:HA	1:J:407:ARG:HH21	1.32	0.91
1:P:340:THR:HA	1:P:407:ARG:HH21	1.32	0.91
1:8:340:THR:HA	1:8:407:ARG:HH21	1.32	0.91
1:4:340:THR:HA	1:4:407:ARG:HH21	1.32	0.90
1:N:340:THR:HA	1:N:407:ARG:HH21	1.32	0.90
1:E:340:THR:HA	1:E:407:ARG:HH21	1.32	0.90
1:A:609:TRP:HH2	1:A:631:PHE:CZ	1.90	0.90
1:N:609:TRP:HH2	1:N:631:PHE:CZ	1.90	0.90
1:B:609:TRP:HH2	1:B:631:PHE:CZ	1.90	0.90
1:O:609:TRP:HH2	1:O:631:PHE:CZ	1.90	0.90
1:R:609:TRP:HH2	1:R:631:PHE:CZ	1.90	0.90
1:Y:609:TRP:HH2	1:Y:631:PHE:CZ	1.90	0.90
1:T:609:TRP:HH2	1:T:631:PHE:CZ	1.90	0.90
1:1:609:TRP:HH2	1:1:631:PHE:CZ	1.90	0.90
1:J:609:TRP:HH2	1:J:631:PHE:CZ	1.90	0.90
1:S:609:TRP:HH2	1:S:631:PHE:CZ	1.90	0.90
1:M:609:TRP:HH2	1:M:631:PHE:CZ	1.90	0.90
1:U:609:TRP:HH2	1:U:631:PHE:CZ	1.90	0.90
1:V:609:TRP:HH2	1:V:631:PHE:CZ	1.90	0.90
1:Z:609:TRP:HH2	1:Z:631:PHE:CZ	1.90	0.90
1:7:609:TRP:HH2	1:7:631:PHE:CZ	1.90	0.89
1:E:609:TRP:HH2	1:E:631:PHE:CZ	1.90	0.89
1:X:609:TRP:HH2	1:X:631:PHE:CZ	1.90	0.89
1:2:609:TRP:HH2	1:2:631:PHE:CZ	1.90	0.89
1:D:609:TRP:HH2	1:D:631:PHE:CZ	1.90	0.89
1:5:340:THR:HA	1:5:407:ARG:HH21	1.32	0.89
1:C:340:THR:HB	1:D:322:GLN:HE21	1.38	0.89
1:K:322:GLN:HE21	1:L:340:THR:HB	1.38	0.89
1:H:609:TRP:HH2	1:H:631:PHE:CZ	1.90	0.89
1:W:609:TRP:HH2	1:W:631:PHE:CZ	1.90	0.89
1:F:609:TRP:HH2	1:F:631:PHE:CZ	1.90	0.89

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:609:TRP:HH2	1:I:631:PHE:CZ	1.90	0.89
1:C:609:TRP:HH2	1:C:631:PHE:CZ	1.90	0.89
1:G:609:TRP:HH2	1:G:631:PHE:CZ	1.90	0.89
1:R:340:THR:HB	1:X:322:GLN:HE21	88.02	0.89
1:6:609:TRP:HH2	1:6:631:PHE:CZ	1.90	0.89
1:8:609:TRP:HH2	1:8:631:PHE:CZ	1.90	0.89
1:L:609:TRP:HH2	1:L:631:PHE:CZ	1.90	0.89
1:P:609:TRP:HH2	1:P:631:PHE:CZ	1.90	0.89
1:Q:322:GLN:HE21	1:Y:340:THR:HB	156.76	0.89
1:X:322:GLN:HE21	1:Y:340:THR:HB	1.38	0.89
1:7:340:THR:HA	1:7:407:ARG:HH21	1.32	0.88
1:V:340:THR:HB	1:W:322:GLN:HE21	1.37	0.88
1:K:609:TRP:HH2	1:K:631:PHE:CZ	1.90	0.88
1:Q:609:TRP:HH2	1:Q:631:PHE:CZ	1.90	0.88
1:U:340:THR:HB	1:5:322:GLN:HE21	176.54	0.88
1:V:322:GLN:HE21	1:W:340:THR:HB	23.56	0.88
1:2:340:THR:HA	1:2:407:ARG:HH21	1.32	0.88
1:3:609:TRP:HH2	1:3:631:PHE:CZ	1.90	0.88
1:4:609:TRP:HH2	1:4:631:PHE:CZ	1.90	0.88
1:E:340:THR:HB	1:U:322:GLN:HE21	156.83	0.88
1:E:322:GLN:HE21	1:H:340:THR:HB	120.09	0.88
1:P:322:GLN:HE21	1:Q:340:THR:HB	1.38	0.88
1:2:322:GLN:HE21	1:3:340:THR:HB	1.39	0.88
1:5:340:THR:HB	1:8:322:GLN:HE21	1.38	0.88
1:Q:322:GLN:HE21	1:S:340:THR:HB	1.38	0.88
1:D:340:THR:HB	1:S:322:GLN:HE21	102.06	0.88
1:U:322:GLN:HE21	1:2:340:THR:HB	167.61	0.88
1:Z:340:THR:HB	1:4:322:GLN:HE21	96.99	0.88
1:5:609:TRP:HH2	1:5:631:PHE:CZ	1.90	0.88
1:D:322:GLN:HE21	1:O:340:THR:HB	107.76	0.88
1:V:340:THR:HB	1:1:322:GLN:HE21	164.17	0.88
1:L:340:THR:HB	1:N:322:GLN:HE21	120.11	0.88
1:P:340:THR:HB	1:6:322:GLN:HE21	165.35	0.88
1:H:322:GLN:HE21	1:I:340:THR:HB	1.38	0.88
1:B:322:GLN:HE21	1:O:340:THR:HB	122.58	0.88
1:3:322:GLN:HE21	1:8:340:THR:HB	1.37	0.87
1:G:340:THR:HB	1:K:322:GLN:HE21	159.06	0.87
1:A:322:GLN:HE21	1:Z:340:THR:HB	107.17	0.87
1:F:322:GLN:HE21	1:G:340:THR:HB	1.38	0.87
1:T:322:GLN:HE21	1:U:340:THR:HB	1.38	0.87
1:G:322:GLN:HE21	1:W:340:THR:HB	1.39	0.87

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:613:ASP:CB	1:J:732:ARG:HD2	2.05	0.87
1:6:613:ASP:CB	1:6:732:ARG:HD2	2.05	0.87
1:A:340:THR:HB	1:B:322:GLN:HE21	1.38	0.87
1:B:340:THR:HB	1:C:322:GLN:HE21	1.38	0.87
1:F:613:ASP:CB	1:F:732:ARG:HD2	2.05	0.87
1:G:613:ASP:CB	1:G:732:ARG:HD2	2.05	0.87
1:I:322:GLN:HE21	1:J:340:THR:HB	1.38	0.87
1:M:613:ASP:CB	1:M:732:ARG:HD2	2.05	0.87
1:M:340:THR:HB	1:N:322:GLN:HE21	23.56	0.87
1:P:613:ASP:CB	1:P:732:ARG:HD2	2.05	0.87
1:X:613:ASP:CB	1:X:732:ARG:HD2	2.05	0.87
1:7:613:ASP:CB	1:7:732:ARG:HD2	2.05	0.87
1:C:322:GLN:HE21	1:M:340:THR:HB	96.99	0.87
1:O:322:GLN:HE21	1:P:340:THR:HB	1.37	0.87
1:E:613:ASP:CB	1:E:732:ARG:HD2	2.05	0.87
1:I:613:ASP:CB	1:I:732:ARG:HD2	2.05	0.87
1:Z:613:ASP:CB	1:Z:732:ARG:HD2	2.05	0.87
1:B:340:THR:HB	1:L:322:GLN:HE21	82.71	0.87
1:C:613:ASP:CB	1:C:732:ARG:HD2	2.05	0.87
1:L:613:ASP:CB	1:L:732:ARG:HD2	2.05	0.87
1:X:330:GLU:N	1:X:330:GLU:OE1	2.08	0.87
1:3:613:ASP:CB	1:3:732:ARG:HD2	2.05	0.87
1:4:613:ASP:CB	1:4:732:ARG:HD2	2.05	0.87
1:J:330:GLU:N	1:J:330:GLU:OE1	2.08	0.87
1:M:330:GLU:OE1	1:M:330:GLU:N	2.08	0.87
1:O:330:GLU:N	1:O:330:GLU:OE1	2.08	0.87
1:1:613:ASP:CB	1:1:732:ARG:HD2	2.05	0.86
1:3:330:GLU:OE1	1:3:330:GLU:N	2.08	0.86
1:D:330:GLU:N	1:D:330:GLU:OE1	2.08	0.86
1:N:613:ASP:CB	1:N:732:ARG:HD2	2.05	0.86
1:O:613:ASP:CB	1:O:732:ARG:HD2	2.05	0.86
1:Q:330:GLU:N	1:Q:330:GLU:OE1	2.08	0.86
1:Q:613:ASP:CB	1:Q:732:ARG:HD2	2.05	0.86
1:W:330:GLU:OE1	1:W:330:GLU:N	2.08	0.86
1:2:330:GLU:N	1:2:330:GLU:OE1	2.08	0.86
1:5:330:GLU:OE1	1:5:330:GLU:N	2.08	0.86
1:5:613:ASP:CB	1:5:732:ARG:HD2	2.05	0.86
1:D:329:ASN:C	1:D:330:GLU:OE1	2.14	0.86
1:E:329:ASN:C	1:E:330:GLU:OE1	2.14	0.86
1:H:329:ASN:C	1:H:330:GLU:OE1	2.14	0.86
1:K:329:ASN:C	1:K:330:GLU:OE1	2.14	0.86

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:322:GLN:HE21	1:N:340:THR:HB	1.39	0.86
1:N:329:ASN:C	1:N:330:GLU:OE1	2.14	0.86
1:S:329:ASN:C	1:S:330:GLU:OE1	2.14	0.86
1:S:330:GLU:N	1:S:330:GLU:OE1	2.08	0.86
1:T:613:ASP:CB	1:T:732:ARG:HD2	2.05	0.86
1:W:329:ASN:C	1:W:330:GLU:OE1	2.14	0.86
1:2:613:ASP:CB	1:2:732:ARG:HD2	2.05	0.86
1:Y:322:GLN:HE21	1:4:340:THR:HB	1.39	0.86
1:8:330:GLU:N	1:8:330:GLU:OE1	2.08	0.86
1:A:329:ASN:C	1:A:330:GLU:OE1	2.14	0.86
1:B:330:GLU:OE1	1:B:330:GLU:N	2.08	0.86
1:D:613:ASP:CB	1:D:732:ARG:HD2	2.05	0.86
1:F:330:GLU:OE1	1:F:330:GLU:N	2.08	0.86
1:H:330:GLU:OE1	1:H:330:GLU:N	2.08	0.86
1:H:613:ASP:CB	1:H:732:ARG:HD2	2.05	0.86
1:P:330:GLU:N	1:P:330:GLU:OE1	2.08	0.86
1:R:329:ASN:C	1:R:330:GLU:OE1	2.14	0.86
1:U:329:ASN:C	1:U:330:GLU:OE1	2.14	0.86
1:U:330:GLU:OE1	1:U:330:GLU:N	2.08	0.86
1:W:613:ASP:CB	1:W:732:ARG:HD2	2.05	0.86
1:4:340:THR:CA	1:4:407:ARG:NH2	2.39	0.86
1:6:330:GLU:OE1	1:6:330:GLU:N	2.08	0.86
1:7:329:ASN:C	1:7:330:GLU:OE1	2.14	0.86
1:A:340:THR:HB	1:J:322:GLN:HE21	88.98	0.86
1:C:330:GLU:N	1:C:330:GLU:OE1	2.08	0.86
1:E:330:GLU:N	1:E:330:GLU:OE1	2.08	0.86
1:G:329:ASN:C	1:G:330:GLU:OE1	2.14	0.86
1:I:330:GLU:OE1	1:I:330:GLU:N	2.08	0.86
1:K:613:ASP:CB	1:K:732:ARG:HD2	2.05	0.86
1:N:340:THR:CA	1:N:407:ARG:NH2	2.39	0.86
1:N:340:THR:HB	1:R:322:GLN:HE21	159.06	0.86
1:P:329:ASN:C	1:P:330:GLU:OE1	2.14	0.86
1:R:330:GLU:OE1	1:R:330:GLU:N	2.08	0.86
1:Y:330:GLU:N	1:Y:330:GLU:OE1	2.08	0.86
1:A:613:ASP:CB	1:A:732:ARG:HD2	2.05	0.86
1:C:329:ASN:C	1:C:330:GLU:OE1	2.14	0.86
1:K:330:GLU:N	1:K:330:GLU:OE1	2.08	0.86
1:L:329:ASN:C	1:L:330:GLU:OE1	2.14	0.86
1:F:340:THR:HB	1:R:322:GLN:HE21	1.38	0.86
1:R:613:ASP:CB	1:R:732:ARG:HD2	2.05	0.86
1:T:329:ASN:C	1:T:330:GLU:OE1	2.14	0.86

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Y:613:ASP:CB	1:Y:732:ARG:HD2	2.05	0.86
1:A:330:GLU:OE1	1:A:330:GLU:N	2.08	0.86
1:B:613:ASP:CB	1:B:732:ARG:HD2	2.05	0.86
1:C:340:THR:CA	1:C:407:ARG:NH2	2.39	0.86
1:G:330:GLU:OE1	1:G:330:GLU:N	2.08	0.86
1:S:613:ASP:CB	1:S:732:ARG:HD2	2.05	0.86
1:K:340:THR:HB	1:W:322:GLN:HE21	171.12	0.86
1:A:340:THR:CA	1:A:407:ARG:NH2	2.39	0.86
1:L:340:THR:CA	1:L:407:ARG:NH2	2.39	0.86
1:V:329:ASN:C	1:V:330:GLU:OE1	2.14	0.86
1:B:329:ASN:C	1:B:330:GLU:OE1	2.14	0.86
1:C:340:THR:HB	1:S:322:GLN:HE21	108.26	0.86
1:I:329:ASN:C	1:I:330:GLU:OE1	2.14	0.86
1:T:322:GLN:HE21	1:6:340:THR:HB	170.62	0.86
1:X:329:ASN:C	1:X:330:GLU:OE1	2.14	0.86
1:Y:329:ASN:C	1:Y:330:GLU:OE1	2.14	0.86
1:Z:329:ASN:C	1:Z:330:GLU:OE1	2.14	0.86
1:2:329:ASN:C	1:2:330:GLU:OE1	2.14	0.86
1:3:329:ASN:C	1:3:330:GLU:OE1	2.14	0.86
1:L:330:GLU:N	1:L:330:GLU:OE1	2.08	0.86
1:M:329:ASN:C	1:M:330:GLU:OE1	2.14	0.86
1:O:329:ASN:C	1:O:330:GLU:OE1	2.14	0.86
1:U:406:LEU:HD21	1:U:412:PHE:HB2	1.59	0.86
1:W:406:LEU:HD21	1:W:412:PHE:HB2	1.58	0.86
1:J:322:GLN:HE21	1:X:340:THR:HB	122.59	0.86
1:8:329:ASN:C	1:8:330:GLU:OE1	2.14	0.85
1:E:406:LEU:HD21	1:E:412:PHE:HB2	1.59	0.85
1:I:340:THR:CA	1:I:407:ARG:NH2	2.39	0.85
1:S:406:LEU:HD21	1:S:412:PHE:HB2	1.58	0.85
1:V:406:LEU:HD21	1:V:412:PHE:HB2	1.58	0.85
1:V:613:ASP:CB	1:V:732:ARG:HD2	2.05	0.85
1:X:340:THR:CA	1:X:407:ARG:NH2	2.39	0.85
1:5:329:ASN:C	1:5:330:GLU:OE1	2.14	0.85
1:7:330:GLU:OE1	1:7:330:GLU:N	2.08	0.85
1:8:613:ASP:CB	1:8:732:ARG:HD2	2.05	0.85
1:F:340:THR:HB	1:Z:322:GLN:HE21	112.20	0.85
1:J:329:ASN:C	1:J:330:GLU:OE1	2.14	0.85
1:Q:329:ASN:C	1:Q:330:GLU:OE1	2.14	0.85
1:R:340:THR:HB	1:V:322:GLN:HE21	1.38	0.85
1:U:613:ASP:CB	1:U:732:ARG:HD2	2.05	0.85
1:F:322:GLN:HE21	1:X:340:THR:HB	113.41	0.85

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Y:406:LEU:HD21	1:Y:412:PHE:HB2	1.58	0.85
1:Z:330:GLU:N	1:Z:330:GLU:OE1	2.08	0.85
1:1:330:GLU:N	1:1:330:GLU:OE1	2.08	0.85
1:8:340:THR:CA	1:8:407:ARG:NH2	2.39	0.85
1:M:322:GLN:HE21	1:S:340:THR:HB	108.60	0.85
1:N:406:LEU:HD21	1:N:412:PHE:HB2	1.58	0.85
1:O:322:GLN:HE21	1:7:340:THR:HB	163.31	0.85
1:V:330:GLU:N	1:V:330:GLU:OE1	2.08	0.85
1:Z:340:THR:CA	1:Z:407:ARG:NH2	2.39	0.85
1:3:340:THR:CA	1:3:407:ARG:NH2	2.39	0.85
1:4:406:LEU:HD21	1:4:412:PHE:HB2	1.58	0.85
1:A:406:LEU:HD21	1:A:412:PHE:HB2	1.58	0.85
1:D:340:THR:CA	1:D:407:ARG:NH2	2.39	0.85
1:E:340:THR:CA	1:E:407:ARG:NH2	2.39	0.85
1:K:340:THR:CA	1:K:407:ARG:NH2	2.39	0.85
1:N:330:GLU:N	1:N:330:GLU:OE1	2.08	0.85
1:O:340:THR:CA	1:O:407:ARG:NH2	2.39	0.85
1:4:329:ASN:C	1:4:330:GLU:OE1	2.14	0.85
1:B:340:THR:CA	1:B:407:ARG:NH2	2.39	0.85
1:F:340:THR:C	1:F:407:ARG:HH21	1.80	0.85
1:P:340:THR:CA	1:P:407:ARG:NH2	2.39	0.85
1:T:330:GLU:OE1	1:T:330:GLU:N	2.08	0.85
1:6:340:THR:C	1:6:407:ARG:HH21	1.80	0.85
1:7:340:THR:CA	1:7:407:ARG:NH2	2.39	0.85
1:F:329:ASN:C	1:F:330:GLU:OE1	2.14	0.85
1:G:340:THR:CA	1:G:407:ARG:NH2	2.39	0.85
1:J:340:THR:HB	1:L:322:GLN:HE21	96.99	0.85
1:H:340:THR:HB	1:Z:322:GLN:HE21	1.39	0.85
1:3:340:THR:C	1:3:407:ARG:HH21	1.80	0.85
1:4:330:GLU:N	1:4:330:GLU:OE1	2.08	0.85
1:A:322:GLN:HE21	1:E:340:THR:HB	1.39	0.85
1:G:406:LEU:HD21	1:G:412:PHE:HB2	1.58	0.85
1:H:406:LEU:HD21	1:H:412:PHE:HB2	1.58	0.85
1:I:406:LEU:HD21	1:I:412:PHE:HB2	1.58	0.85
1:O:340:THR:C	1:O:407:ARG:HH21	1.80	0.85
1:R:340:THR:CA	1:R:407:ARG:NH2	2.39	0.85
1:R:340:THR:C	1:R:407:ARG:HH21	1.80	0.85
1:T:340:THR:C	1:T:407:ARG:HH21	1.80	0.85
1:G:340:THR:C	1:G:407:ARG:HH21	1.80	0.85
1:I:340:THR:C	1:I:407:ARG:HH21	1.80	0.85
1:Q:406:LEU:HD21	1:Q:412:PHE:HB2	1.58	0.85

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:T:340:THR:CA	1:T:407:ARG:NH2	2.39	0.85
1:I:322:GLN:HE21	1:T:340:THR:HB	174.97	0.85
1:V:340:THR:C	1:V:407:ARG:HH21	1.80	0.85
1:A:340:THR:C	1:A:407:ARG:HH21	1.80	0.85
1:D:340:THR:C	1:D:407:ARG:HH21	1.80	0.85
1:2:340:THR:C	1:2:407:ARG:HH21	1.80	0.85
1:4:340:THR:C	1:4:407:ARG:HH21	1.80	0.85
1:6:329:ASN:C	1:6:330:GLU:OE1	2.14	0.85
1:8:340:THR:C	1:8:407:ARG:HH21	1.80	0.85
1:8:406:LEU:HD21	1:8:412:PHE:HB2	1.58	0.85
1:G:322:GLN:HE21	1:1:340:THR:HB	165.35	0.85
1:K:406:LEU:HD21	1:K:412:PHE:HB2	1.59	0.85
1:P:340:THR:C	1:P:407:ARG:HH21	1.80	0.85
1:Q:340:THR:CA	1:Q:407:ARG:NH2	2.39	0.85
1:U:340:THR:C	1:U:407:ARG:HH21	1.80	0.85
1:D:406:LEU:HD21	1:D:412:PHE:HB2	1.58	0.84
1:D:340:THR:HB	1:E:322:GLN:HE21	1.39	0.84
1:M:340:THR:C	1:M:407:ARG:HH21	1.80	0.84
1:N:340:THR:C	1:N:407:ARG:HH21	1.80	0.84
1:P:406:LEU:HD21	1:P:412:PHE:HB2	1.59	0.84
1:Q:340:THR:C	1:Q:407:ARG:HH21	1.80	0.84
1:Y:340:THR:C	1:Y:407:ARG:HH21	1.80	0.84
1:Z:340:THR:C	1:Z:407:ARG:HH21	1.80	0.84
1:1:329:ASN:C	1:1:330:GLU:OE1	2.14	0.84
1:W:340:THR:CA	1:W:407:ARG:NH2	2.39	0.84
1:W:340:THR:C	1:W:407:ARG:HH21	1.80	0.84
1:3:406:LEU:HD21	1:3:412:PHE:HB2	1.58	0.84
1:6:406:LEU:HD21	1:6:412:PHE:HB2	1.58	0.84
1:E:340:THR:C	1:E:407:ARG:HH21	1.80	0.84
1:F:340:THR:CA	1:F:407:ARG:NH2	2.39	0.84
1:J:340:THR:CA	1:J:407:ARG:NH2	2.39	0.84
1:5:406:LEU:HD21	1:5:412:PHE:HB2	1.58	0.84
1:F:406:LEU:HD21	1:F:412:PHE:HB2	1.58	0.84
1:O:406:LEU:HD21	1:O:412:PHE:HB2	1.58	0.84
1:U:340:THR:CA	1:U:407:ARG:NH2	2.39	0.84
1:K:340:THR:HB	1:7:322:GLN:HE21	1.38	0.84
1:V:340:THR:CA	1:V:407:ARG:NH2	2.39	0.84
1:B:340:THR:C	1:B:407:ARG:HH21	1.80	0.84
1:5:340:THR:CA	1:5:407:ARG:NH2	2.39	0.84
1:C:406:LEU:HD21	1:C:412:PHE:HB2	1.58	0.84
1:T:340:THR:HB	1:Y:322:GLN:HE21	119.15	0.84

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:2:406:LEU:HD21	1:2:412:PHE:HB2	1.58	0.84
1:J:406:LEU:HD21	1:J:412:PHE:HB2	1.59	0.84
1:L:406:LEU:HD21	1:L:412:PHE:HB2	1.58	0.84
1:S:340:THR:CA	1:S:407:ARG:NH2	2.39	0.84
1:L:340:THR:C	1:L:407:ARG:HH21	1.80	0.84
1:X:340:THR:C	1:X:407:ARG:HH21	1.80	0.84
1:X:406:LEU:HD21	1:X:412:PHE:HB2	1.58	0.84
1:C:340:THR:C	1:C:407:ARG:HH21	1.80	0.83
1:J:340:THR:C	1:J:407:ARG:HH21	1.80	0.83
1:M:406:LEU:HD21	1:M:412:PHE:HB2	1.59	0.83
1:Z:406:LEU:HD21	1:Z:412:PHE:HB2	1.58	0.83
1:5:340:THR:C	1:5:407:ARG:HH21	1.80	0.83
1:7:406:LEU:HD21	1:7:412:PHE:HB2	1.59	0.83
1:1:340:THR:C	1:1:407:ARG:HH21	1.80	0.83
1:K:340:THR:C	1:K:407:ARG:HH21	1.80	0.83
1:1:406:LEU:HD21	1:1:412:PHE:HB2	1.58	0.83
1:S:340:THR:C	1:S:407:ARG:HH21	1.80	0.83
1:T:406:LEU:HD21	1:T:412:PHE:HB2	1.58	0.83
1:M:340:THR:CA	1:M:407:ARG:NH2	2.39	0.83
1:Y:340:THR:CA	1:Y:407:ARG:NH2	2.39	0.83
1:1:340:THR:CA	1:1:407:ARG:NH2	2.39	0.83
1:B:406:LEU:HD21	1:B:412:PHE:HB2	1.59	0.83
1:7:340:THR:C	1:7:407:ARG:HH21	1.80	0.83
1:R:406:LEU:HD21	1:R:412:PHE:HB2	1.58	0.83
1:H:340:THR:CA	1:H:407:ARG:NH2	2.39	0.83
1:H:340:THR:C	1:H:407:ARG:HH21	1.80	0.82
1:6:340:THR:CA	1:6:407:ARG:NH2	2.39	0.82
1:N:736:ARG:HH21	1:O:626:HIS:CD2	52.99	0.81
1:3:626:HIS:CD2	1:4:736:ARG:HH21	1.99	0.81
1:I:736:ARG:HH21	1:J:626:HIS:CD2	39.07	0.81
1:S:736:ARG:HH21	1:U:626:HIS:CD2	1.99	0.81
1:U:736:ARG:HH21	1:V:626:HIS:CD2	52.99	0.81
1:F:626:HIS:CD2	1:G:736:ARG:HH21	82.78	0.81
1:Q:736:ARG:HH21	1:R:626:HIS:CD2	52.99	0.81
1:5:736:ARG:HH21	1:6:626:HIS:CD2	1.99	0.81
1:B:626:HIS:CD2	1:L:736:ARG:HH21	1.99	0.81
1:B:626:HIS:CD2	1:C:736:ARG:HH21	39.07	0.81
1:F:626:HIS:CD2	1:Q:736:ARG:HH21	1.99	0.81
1:O:736:ARG:HH21	1:P:626:HIS:CD2	39.07	0.81
1:T:626:HIS:CD2	1:V:736:ARG:HH21	87.66	0.81
1:W:736:ARG:HH21	1:Y:626:HIS:CD2	1.99	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:736:ARG:HH21	1:J:626:HIS:CD2	1.99	0.81
1:E:626:HIS:CD2	1:F:736:ARG:HH21	1.99	0.81
1:B:736:ARG:HH21	1:M:626:HIS:CD2	97.24	0.81
1:2:340:THR:CA	1:2:407:ARG:NH2	2.39	0.81
1:6:736:ARG:HH21	1:7:626:HIS:CD2	1.99	0.81
1:5:626:HIS:CD2	1:7:736:ARG:HH21	1.99	0.81
1:A:736:ARG:HH21	1:8:626:HIS:CD2	129.91	0.81
1:C:626:HIS:CD2	1:M:736:ARG:HH21	1.99	0.81
1:E:736:ARG:HH21	1:Q:626:HIS:CD2	1.99	0.81
1:J:736:ARG:HH21	1:L:626:HIS:CD2	1.99	0.81
1:K:626:HIS:CD2	1:8:736:ARG:HH21	1.99	0.81
1:I:626:HIS:CD2	1:K:736:ARG:HH21	87.67	0.81
1:N:736:ARG:HH21	1:P:626:HIS:CD2	1.99	0.81
1:D:626:HIS:CD2	1:P:736:ARG:HH21	1.99	0.81
1:R:626:HIS:CD2	1:U:736:ARG:HH21	1.99	0.81
1:C:736:ARG:HH21	1:O:626:HIS:CD2	134.29	0.80
1:G:626:HIS:CD2	1:H:736:ARG:HH21	52.99	0.80
1:X:736:ARG:HH21	1:Y:626:HIS:CD2	39.07	0.80
1:M:626:HIS:CD2	1:O:736:ARG:HH21	87.66	0.80
1:D:736:ARG:HH21	1:N:626:HIS:CD2	1.99	0.80
1:L:736:ARG:HH21	1:T:626:HIS:CD2	179.02	0.80
1:T:736:ARG:HH21	1:U:626:HIS:CD2	39.07	0.80
1:Z:626:HIS:CD2	1:3:736:ARG:HH21	1.99	0.80
1:Z:736:ARG:HH21	1:1:626:HIS:CD2	83.37	0.80
1:A:626:HIS:CD2	1:I:736:ARG:HH21	1.99	0.80
1:A:626:HIS:CD2	1:K:736:ARG:HH21	88.00	0.80
1:V:626:HIS:CD2	1:X:736:ARG:HH21	1.99	0.80
1:D:626:HIS:CD2	1:T:736:ARG:HH21	105.33	0.80
1:E:736:ARG:HH21	1:X:626:HIS:CD2	134.51	0.80
1:1:736:ARG:HH21	1:2:626:HIS:CD2	1.99	0.80
1:A:736:ARG:HH21	1:G:626:HIS:CD2	2.00	0.80
1:R:736:ARG:HH21	1:S:626:HIS:CD2	1.99	0.80
1:H:736:ARG:HH21	1:W:626:HIS:CD2	1.99	0.80
1:F:736:ARG:HH21	1:H:626:HIS:CD2	111.00	0.80
1:J:736:ARG:HH21	1:K:626:HIS:CD2	52.98	0.80
1:D:736:ARG:HH21	1:L:626:HIS:CD2	111.00	0.80
1:W:626:HIS:CD2	1:Y:736:ARG:HH21	32.20	0.80
1:Z:626:HIS:CD2	1:2:736:ARG:HH21	67.35	0.80
1:Q:626:HIS:CD2	1:S:736:ARG:HH21	82.79	0.79
1:E:626:HIS:CD2	1:V:736:ARG:HH21	110.83	0.79
1:Z:736:ARG:HH21	1:4:626:HIS:CD2	1.99	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:626:HIS:CD2	1:P:736:ARG:HH21	56.12	0.79
1:H:626:HIS:CD2	1:Y:736:ARG:HH21	1.99	0.79
1:G:736:ARG:HH21	1:I:626:HIS:CD2	1.99	0.79
1:M:736:ARG:HH21	1:N:626:HIS:CD2	39.06	0.79
1:T:429:HIS:CD2	1:T:610:GLN:OE1	2.36	0.79
1:I:429:HIS:CD2	1:I:610:GLN:OE1	2.36	0.79
1:A:429:HIS:CD2	1:A:610:GLN:OE1	2.36	0.79
1:D:429:HIS:CD2	1:D:610:GLN:OE1	2.36	0.79
1:O:429:HIS:CD2	1:O:610:GLN:OE1	2.36	0.79
1:S:429:HIS:CD2	1:S:610:GLN:OE1	2.36	0.79
1:U:429:HIS:CD2	1:U:610:GLN:OE1	2.36	0.79
1:4:429:HIS:CD2	1:4:610:GLN:OE1	2.36	0.79
1:L:429:HIS:CD2	1:L:610:GLN:OE1	2.36	0.79
1:N:429:HIS:CD2	1:N:610:GLN:OE1	2.36	0.79
1:P:429:HIS:CD2	1:P:610:GLN:OE1	2.36	0.79
1:Z:429:HIS:CD2	1:Z:610:GLN:OE1	2.36	0.79
1:2:429:HIS:CD2	1:2:610:GLN:OE1	2.36	0.79
1:5:429:HIS:CD2	1:5:610:GLN:OE1	2.36	0.79
1:8:429:HIS:CD2	1:8:610:GLN:OE1	2.36	0.79
1:Q:429:HIS:CD2	1:Q:610:GLN:OE1	2.36	0.79
1:X:429:HIS:CD2	1:X:610:GLN:OE1	2.36	0.79
1:G:429:HIS:CD2	1:G:610:GLN:OE1	2.36	0.78
1:I:429:HIS:CD2	1:I:610:GLN:OE1	2.36	0.78
1:J:429:HIS:CD2	1:J:610:GLN:OE1	2.36	0.78
1:K:429:HIS:CD2	1:K:610:GLN:OE1	2.36	0.78
1:E:429:HIS:CD2	1:E:610:GLN:OE1	2.36	0.78
1:F:429:HIS:CD2	1:F:610:GLN:OE1	2.36	0.78
1:H:429:HIS:CD2	1:H:610:GLN:OE1	2.36	0.78
1:6:429:HIS:CD2	1:6:610:GLN:OE1	2.36	0.78
1:M:429:HIS:CD2	1:M:610:GLN:OE1	2.36	0.78
1:W:429:HIS:CD2	1:W:610:GLN:OE1	2.36	0.78
1:3:429:HIS:CD2	1:3:610:GLN:OE1	2.36	0.78
1:7:429:HIS:CD2	1:7:610:GLN:OE1	2.36	0.78
1:B:429:HIS:CD2	1:B:610:GLN:OE1	2.36	0.78
1:C:429:HIS:CD2	1:C:610:GLN:OE1	2.36	0.78
1:Y:429:HIS:CD2	1:Y:610:GLN:OE1	2.36	0.78
1:R:429:HIS:CD2	1:R:610:GLN:OE1	2.36	0.78
1:V:429:HIS:CD2	1:V:610:GLN:OE1	2.36	0.78
1:7:613:ASP:OD1	1:7:732:ARG:HD3	1.85	0.77
1:E:613:ASP:OD1	1:E:732:ARG:HD3	1.85	0.77
1:1:613:ASP:OD1	1:1:732:ARG:HD3	1.85	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:613:ASP:OD1	1:D:732:ARG:HD3	1.85	0.77
1:J:613:ASP:OD1	1:J:732:ARG:HD3	1.85	0.77
1:M:613:ASP:OD1	1:M:732:ARG:HD3	1.85	0.77
1:T:613:ASP:OD1	1:T:732:ARG:HD3	1.85	0.77
1:2:613:ASP:OD1	1:2:732:ARG:HD3	1.85	0.76
1:P:613:ASP:OD1	1:P:732:ARG:HD3	1.85	0.76
1:8:613:ASP:OD1	1:8:732:ARG:HD3	1.85	0.76
1:A:613:ASP:OD1	1:A:732:ARG:HD3	1.85	0.76
1:C:613:ASP:OD1	1:C:732:ARG:HD3	1.85	0.76
1:5:613:ASP:OD1	1:5:732:ARG:HD3	1.85	0.76
1:I:613:ASP:OD1	1:I:732:ARG:HD3	1.85	0.76
1:R:613:ASP:OD1	1:R:732:ARG:HD3	1.85	0.76
1:X:613:ASP:OD1	1:X:732:ARG:HD3	1.85	0.76
1:L:613:ASP:OD1	1:L:732:ARG:HD3	1.85	0.76
1:O:613:ASP:OD1	1:O:732:ARG:HD3	1.85	0.76
1:Q:613:ASP:OD1	1:Q:732:ARG:HD3	1.85	0.76
1:U:613:ASP:OD1	1:U:732:ARG:HD3	1.85	0.76
1:W:613:ASP:OD1	1:W:732:ARG:HD3	1.85	0.76
1:Y:613:ASP:OD1	1:Y:732:ARG:HD3	1.85	0.76
1:H:613:ASP:OD1	1:H:732:ARG:HD3	1.85	0.76
1:4:613:ASP:OD1	1:4:732:ARG:HD3	1.85	0.76
1:K:613:ASP:OD1	1:K:732:ARG:HD3	1.85	0.76
1:V:613:ASP:OD1	1:V:732:ARG:HD3	1.85	0.76
1:N:613:ASP:OD1	1:N:732:ARG:HD3	1.85	0.76
1:X:609:TRP:HE1	1:Y:629:GLY:HA3	55.62	0.76
1:6:613:ASP:OD1	1:6:732:ARG:HD3	1.85	0.76
1:F:613:ASP:OD1	1:F:732:ARG:HD3	1.85	0.76
1:B:613:ASP:OD1	1:B:732:ARG:HD3	1.85	0.76
1:W:609:TRP:HE1	1:X:629:GLY:HA3	69.18	0.76
1:F:613:ASP:CB	1:F:732:ARG:CD	2.65	0.75
1:S:613:ASP:OD1	1:S:732:ARG:HD3	1.85	0.75
1:6:613:ASP:CB	1:6:732:ARG:CD	2.65	0.75
1:G:613:ASP:OD1	1:G:732:ARG:HD3	1.85	0.75
1:3:613:ASP:OD1	1:3:732:ARG:HD3	1.85	0.75
1:Z:613:ASP:OD1	1:Z:732:ARG:HD3	1.85	0.75
1:A:613:ASP:CB	1:A:732:ARG:CD	2.65	0.75
1:E:609:TRP:HH2	1:E:631:PHE:HZ	1.35	0.75
1:J:613:ASP:CB	1:J:732:ARG:CD	2.65	0.75
1:O:613:ASP:CB	1:O:732:ARG:CD	2.65	0.75
1:L:609:TRP:HE1	1:T:629:GLY:HA3	194.04	0.75
1:W:736:ARG:HH21	1:X:626:HIS:CD2	52.99	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Z:609:TRP:HE1	1:I:629:GLY:HA3	82.92	0.74
1:G:609:TRP:HE1	1:I:629:GLY:HA3	1.52	0.74
1:W:609:TRP:HH2	1:W:631:PHE:HZ	1.35	0.74
1:7:307:TRP:O	1:7:426:SER:HB3	1.88	0.74
1:A:609:TRP:HE1	1:G:629:GLY:HA3	1.52	0.74
1:C:629:GLY:HA3	1:P:609:TRP:HE1	68.95	0.74
1:E:307:TRP:O	1:E:426:SER:HB3	1.88	0.74
1:F:609:TRP:HH2	1:F:631:PHE:HZ	1.35	0.74
1:H:629:GLY:HA3	1:Y:609:TRP:HE1	1.52	0.74
1:R:307:TRP:O	1:R:426:SER:HB3	1.88	0.74
1:R:609:TRP:HE1	1:S:629:GLY:HA3	1.52	0.74
1:T:307:TRP:O	1:T:426:SER:HB3	1.88	0.74
1:V:609:TRP:HH2	1:V:631:PHE:HZ	1.35	0.74
1:6:609:TRP:HH2	1:6:631:PHE:HZ	1.35	0.74
1:C:307:TRP:O	1:C:426:SER:HB3	1.88	0.74
1:G:307:TRP:O	1:G:426:SER:HB3	1.88	0.74
1:G:629:GLY:HA3	1:H:609:TRP:HE1	69.18	0.74
1:I:307:TRP:O	1:I:426:SER:HB3	1.87	0.74
1:M:307:TRP:O	1:M:426:SER:HB3	1.88	0.74
1:N:307:TRP:O	1:N:426:SER:HB3	1.88	0.74
1:O:307:TRP:O	1:O:426:SER:HB3	1.88	0.74
1:U:307:TRP:O	1:U:426:SER:HB3	1.88	0.74
1:U:609:TRP:HH2	1:U:631:PHE:HZ	1.35	0.74
1:W:307:TRP:O	1:W:426:SER:HB3	1.88	0.74
1:X:613:ASP:CB	1:X:732:ARG:CD	2.65	0.74
1:4:307:TRP:O	1:4:426:SER:HB3	1.87	0.74
1:A:307:TRP:O	1:A:426:SER:HB3	1.88	0.74
1:C:609:TRP:HH2	1:C:631:PHE:HZ	1.35	0.74
1:I:629:GLY:HA3	1:K:609:TRP:HE1	111.79	0.74
1:P:307:TRP:O	1:P:426:SER:HB3	1.88	0.74
1:Q:307:TRP:O	1:Q:426:SER:HB3	1.88	0.74
1:R:609:TRP:HH2	1:R:631:PHE:HZ	1.35	0.74
1:S:307:TRP:O	1:S:426:SER:HB3	1.88	0.74
1:Y:609:TRP:HH2	1:Y:631:PHE:HZ	1.35	0.74
1:B:609:TRP:HH2	1:B:631:PHE:HZ	1.35	0.74
1:O:609:TRP:HE1	1:P:629:GLY:HA3	55.62	0.74
1:Q:609:TRP:HE1	1:R:629:GLY:HA3	69.19	0.74
1:U:613:ASP:CB	1:U:732:ARG:CD	2.65	0.74
1:V:613:ASP:CB	1:V:732:ARG:CD	2.65	0.74
1:U:609:TRP:HE1	1:V:629:GLY:HA3	69.18	0.74
1:W:609:TRP:HE1	1:Y:629:GLY:HA3	1.52	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Z:307:TRP:O	1:Z:426:SER:HB3	1.88	0.74
1:2:613:ASP:CB	1:2:732:ARG:CD	2.65	0.74
1:D:613:ASP:CB	1:D:732:ARG:CD	2.65	0.74
1:F:307:TRP:O	1:F:426:SER:HB3	1.88	0.74
1:H:609:TRP:HH2	1:H:631:PHE:HZ	1.35	0.74
1:J:609:TRP:HH2	1:J:631:PHE:HZ	1.35	0.74
1:L:609:TRP:HH2	1:L:631:PHE:HZ	1.35	0.74
1:S:613:ASP:CB	1:S:732:ARG:CD	2.65	0.74
1:Y:307:TRP:O	1:Y:426:SER:HB3	1.88	0.74
1:1:613:ASP:CB	1:1:732:ARG:CD	2.65	0.74
1:6:307:TRP:O	1:6:426:SER:HB3	1.88	0.74
1:K:609:TRP:HH2	1:K:631:PHE:HZ	1.35	0.74
1:S:609:TRP:HE1	1:U:629:GLY:HA3	1.52	0.74
1:T:613:ASP:CB	1:T:732:ARG:CD	2.65	0.74
1:R:629:GLY:HA3	1:U:609:TRP:HE1	1.53	0.74
1:B:307:TRP:O	1:B:426:SER:HB3	1.88	0.74
1:J:307:TRP:O	1:J:426:SER:HB3	1.88	0.74
1:K:613:ASP:CB	1:K:732:ARG:CD	2.65	0.74
1:L:307:TRP:O	1:L:426:SER:HB3	1.88	0.74
1:B:609:TRP:HE1	1:M:629:GLY:HA3	84.03	0.74
1:P:613:ASP:CB	1:P:732:ARG:CD	2.65	0.74
1:R:531:ASP:OD1	1:R:569:LYS:NZ	2.21	0.74
1:T:629:GLY:HA3	1:V:609:TRP:HE1	111.78	0.74
1:V:307:TRP:O	1:V:426:SER:HB3	1.88	0.74
1:V:629:GLY:HA3	1:X:609:TRP:HE1	1.52	0.74
1:5:613:ASP:CB	1:5:732:ARG:CD	2.65	0.74
1:8:613:ASP:CB	1:8:732:ARG:CD	2.65	0.74
1:B:609:TRP:HE1	1:J:629:GLY:HA3	1.53	0.74
1:X:609:TRP:HH2	1:X:631:PHE:HZ	1.35	0.74
1:Y:531:ASP:OD1	1:Y:569:LYS:NZ	2.21	0.74
1:2:307:TRP:O	1:2:426:SER:HB3	1.88	0.73
1:7:531:ASP:OD1	1:7:569:LYS:NZ	2.21	0.73
1:I:613:ASP:CB	1:I:732:ARG:CD	2.65	0.73
1:K:307:TRP:O	1:K:426:SER:HB3	1.88	0.73
1:N:531:ASP:OD1	1:N:569:LYS:NZ	2.21	0.73
1:Q:613:ASP:CB	1:Q:732:ARG:CD	2.65	0.73
1:4:531:ASP:OD1	1:4:569:LYS:NZ	2.21	0.73
1:5:307:TRP:O	1:5:426:SER:HB3	1.88	0.73
1:C:629:GLY:HA3	1:M:609:TRP:HE1	1.52	0.73
1:E:531:ASP:OD1	1:E:569:LYS:NZ	2.21	0.73
1:G:613:ASP:CB	1:G:732:ARG:CD	2.65	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:629:GLY:HA3	1:8:609:TRP:HE1	1.52	0.73
1:8:307:TRP:O	1:8:426:SER:HB3	1.88	0.73
1:D:307:TRP:O	1:D:426:SER:HB3	1.87	0.73
1:H:307:TRP:O	1:H:426:SER:HB3	1.87	0.73
1:H:613:ASP:CB	1:H:732:ARG:CD	2.65	0.73
1:J:609:TRP:HE1	1:L:629:GLY:HA3	1.52	0.73
1:S:609:TRP:HH2	1:S:631:PHE:HZ	1.35	0.73
1:D:629:GLY:HA3	1:P:609:TRP:HE1	1.52	0.73
1:E:609:TRP:HE1	1:X:629:GLY:HA3	132.88	0.73
1:F:609:TRP:HE1	1:H:629:GLY:HA3	119.77	0.73
1:J:609:TRP:HE1	1:K:629:GLY:HA3	69.18	0.73
1:Z:609:TRP:HH2	1:Z:631:PHE:HZ	1.35	0.73
1:7:609:TRP:HH2	1:7:631:PHE:HZ	1.35	0.73
1:I:609:TRP:HH2	1:I:631:PHE:HZ	1.35	0.73
1:3:531:ASP:OD1	1:3:569:LYS:NZ	2.21	0.73
1:I:609:TRP:HE1	1:J:629:GLY:HA3	55.62	0.73
1:Q:531:ASP:OD1	1:Q:569:LYS:NZ	2.21	0.73
1:F:629:GLY:HA3	1:G:609:TRP:HE1	80.85	0.73
1:O:531:ASP:OD1	1:O:569:LYS:NZ	2.21	0.73
1:C:609:TRP:HE1	1:O:629:GLY:HA3	132.09	0.73
1:T:609:TRP:HE1	1:U:629:GLY:HA3	55.62	0.73
1:Z:613:ASP:CB	1:Z:732:ARG:CD	2.65	0.73
1:6:531:ASP:OD1	1:6:569:LYS:NZ	2.21	0.73
1:M:613:ASP:CB	1:M:732:ARG:CD	2.65	0.73
1:Q:629:GLY:HA3	1:S:609:TRP:HE1	80.85	0.73
1:W:531:ASP:OD1	1:W:569:LYS:NZ	2.21	0.73
1:2:609:TRP:HH2	1:2:631:PHE:HZ	1.35	0.73
1:F:531:ASP:OD1	1:F:569:LYS:NZ	2.21	0.73
1:Z:629:GLY:HA3	1:3:609:TRP:HE1	1.52	0.73
1:3:307:TRP:O	1:3:426:SER:HB3	1.88	0.72
1:K:531:ASP:OD1	1:K:569:LYS:NZ	2.21	0.72
1:D:609:TRP:HE1	1:L:629:GLY:HA3	119.77	0.72
1:A:629:GLY:HA3	1:I:609:TRP:HE1	1.52	0.72
1:D:609:TRP:HH2	1:D:631:PHE:HZ	1.35	0.72
1:M:328:GLN:HE22	1:M:333:LYS:HG3	1.55	0.72
1:M:531:ASP:OD1	1:M:569:LYS:NZ	2.21	0.72
1:V:531:ASP:OD1	1:V:569:LYS:NZ	2.21	0.72
1:3:240:VAL:HG13	1:3:687:TRP:HB2	1.72	0.72
1:7:240:VAL:HG13	1:7:687:TRP:HB2	1.72	0.72
1:A:629:GLY:HA3	1:K:609:TRP:HE1	106.87	0.72
1:A:609:TRP:HH2	1:A:631:PHE:HZ	1.35	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:328:GLN:HE22	1:B:333:LYS:HG3	1.55	0.72
1:D:531:ASP:OD1	1:D:569:LYS:NZ	2.21	0.72
1:E:240:VAL:HG13	1:E:687:TRP:HB2	1.72	0.72
1:D:609:TRP:HE1	1:N:629:GLY:HA3	1.52	0.72
1:M:629:GLY:HA3	1:O:609:TRP:HE1	111.78	0.72
1:O:240:VAL:HG13	1:O:687:TRP:HB2	1.72	0.72
1:Q:240:VAL:HG13	1:Q:687:TRP:HB2	1.72	0.72
1:H:609:TRP:HE1	1:W:629:GLY:HA3	1.53	0.72
1:W:240:VAL:HG13	1:W:687:TRP:HB2	1.72	0.72
1:Z:328:GLN:HE22	1:Z:333:LYS:HG3	1.55	0.72
1:1:307:TRP:O	1:1:426:SER:HB3	1.88	0.72
1:A:328:GLN:HE22	1:A:333:LYS:HG3	1.55	0.72
1:A:240:VAL:HG13	1:A:687:TRP:HB2	1.72	0.72
1:B:629:GLY:HA3	1:L:609:TRP:HE1	1.52	0.72
1:D:240:VAL:HG13	1:D:687:TRP:HB2	1.72	0.72
1:H:340:THR:O	1:H:407:ARG:NH2	2.23	0.72
1:K:340:THR:O	1:K:407:ARG:NH2	2.23	0.72
1:K:240:VAL:HG13	1:K:687:TRP:HB2	1.72	0.72
1:N:328:GLN:HE22	1:N:333:LYS:HG3	1.55	0.72
1:N:240:VAL:HG13	1:N:687:TRP:HB2	1.71	0.72
1:P:240:VAL:HG13	1:P:687:TRP:HB2	1.72	0.72
1:V:328:GLN:HE22	1:V:333:LYS:HG3	1.54	0.72
1:Z:531:ASP:OD1	1:Z:569:LYS:NZ	2.21	0.72
1:Z:240:VAL:HG13	1:Z:687:TRP:HB2	1.72	0.72
1:3:328:GLN:HE22	1:3:333:LYS:HG3	1.55	0.72
1:8:240:VAL:HG13	1:8:687:TRP:HB2	1.72	0.72
1:C:613:ASP:CB	1:C:732:ARG:CD	2.65	0.72
1:C:240:VAL:HG13	1:C:687:TRP:HB2	1.72	0.72
1:F:340:THR:O	1:F:407:ARG:NH2	2.23	0.72
1:M:240:VAL:HG13	1:M:687:TRP:HB2	1.72	0.72
1:N:609:TRP:HH2	1:N:631:PHE:HZ	1.35	0.72
1:O:340:THR:O	1:O:407:ARG:NH2	2.23	0.72
1:Q:328:GLN:HE22	1:Q:333:LYS:HG3	1.55	0.72
1:U:328:GLN:HE22	1:U:333:LYS:HG3	1.55	0.72
1:U:340:THR:O	1:U:407:ARG:NH2	2.23	0.72
1:X:307:TRP:O	1:X:426:SER:HB3	1.88	0.72
1:X:431:GLN:HE22	1:Y:354:PRO:HB3	48.18	0.72
1:Z:629:GLY:HA3	1:2:609:TRP:HE1	70.70	0.72
1:3:340:THR:O	1:3:407:ARG:NH2	2.23	0.72
1:3:613:ASP:CB	1:3:732:ARG:CD	2.65	0.72
1:6:340:THR:O	1:6:407:ARG:NH2	2.23	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:240:VAL:HG13	1:B:687:TRP:HB2	1.72	0.72
1:C:328:GLN:HE22	1:C:333:LYS:HG3	1.55	0.72
1:I:613:ASP:CB	1:I:731:THR:HG22	2.17	0.72
1:J:328:GLN:HE22	1:J:333:LYS:HG3	1.55	0.72
1:L:328:GLN:HE22	1:L:333:LYS:HG3	1.55	0.72
1:L:240:VAL:HG13	1:L:687:TRP:HB2	1.72	0.72
1:O:328:GLN:HE22	1:O:333:LYS:HG3	1.55	0.72
1:V:340:THR:O	1:V:407:ARG:NH2	2.23	0.72
1:W:328:GLN:HE22	1:W:333:LYS:HG3	1.55	0.72
1:2:240:VAL:HG13	1:2:687:TRP:HB2	1.72	0.72
1:5:609:TRP:HH2	1:5:631:PHE:HZ	1.35	0.72
1:B:629:GLY:HA3	1:C:609:TRP:HE1	55.62	0.72
1:G:321:ILE:HD13	1:G:343:ILE:HD11	1.72	0.72
1:H:240:VAL:HG13	1:H:687:TRP:HB2	1.72	0.72
1:J:531:ASP:OD1	1:J:569:LYS:NZ	2.21	0.72
1:K:328:GLN:HE22	1:K:333:LYS:HG3	1.55	0.72
1:P:321:ILE:HD13	1:P:343:ILE:HD11	1.72	0.72
1:P:328:GLN:HE22	1:P:333:LYS:HG3	1.55	0.72
1:P:531:ASP:OD1	1:P:569:LYS:NZ	2.21	0.72
1:Q:609:TRP:HH2	1:Q:631:PHE:HZ	1.35	0.72
1:X:328:GLN:HE22	1:X:333:LYS:HG3	1.55	0.72
1:A:531:ASP:OD1	1:A:569:LYS:NZ	2.21	0.72
1:F:328:GLN:HE22	1:F:333:LYS:HG3	1.55	0.72
1:G:328:GLN:HE22	1:G:333:LYS:HG3	1.55	0.72
1:G:531:ASP:OD1	1:G:569:LYS:NZ	2.21	0.72
1:G:240:VAL:HG13	1:G:687:TRP:HB2	1.72	0.72
1:J:340:THR:O	1:J:407:ARG:NH2	2.23	0.72
1:M:340:THR:O	1:M:407:ARG:NH2	2.23	0.72
1:S:240:VAL:HG13	1:S:687:TRP:HB2	1.72	0.72
1:X:240:VAL:HG13	1:X:687:TRP:HB2	1.71	0.72
1:D:328:GLN:HE22	1:D:333:LYS:HG3	1.55	0.72
1:H:321:ILE:HD13	1:H:343:ILE:HD11	1.72	0.72
1:I:240:VAL:HG13	1:I:687:TRP:HB2	1.72	0.72
1:L:321:ILE:HD13	1:L:343:ILE:HD11	1.72	0.72
1:O:609:TRP:HH2	1:O:631:PHE:HZ	1.35	0.72
1:S:321:ILE:HD13	1:S:343:ILE:HD11	1.72	0.72
1:S:328:GLN:HE22	1:S:333:LYS:HG3	1.55	0.72
1:S:340:THR:O	1:S:407:ARG:NH2	2.23	0.72
1:U:613:ASP:CB	1:U:731:THR:HG22	2.17	0.72
1:Z:340:THR:O	1:Z:407:ARG:NH2	2.23	0.72
1:4:340:THR:O	1:4:407:ARG:NH2	2.23	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:321:ILE:HD13	1:A:343:ILE:HD11	1.72	0.72
1:C:321:ILE:HD13	1:C:343:ILE:HD11	1.72	0.72
1:D:340:THR:O	1:D:407:ARG:NH2	2.23	0.72
1:H:328:GLN:HE22	1:H:333:LYS:HG3	1.55	0.72
1:N:340:THR:O	1:N:407:ARG:NH2	2.23	0.72
1:N:321:ILE:HD13	1:N:343:ILE:HD11	1.72	0.72
1:S:613:ASP:CB	1:S:731:THR:HG22	2.17	0.72
1:U:321:ILE:HD13	1:U:343:ILE:HD11	1.72	0.72
1:V:321:ILE:HD13	1:V:343:ILE:HD11	1.72	0.72
1:X:321:ILE:HD13	1:X:343:ILE:HD11	1.72	0.72
1:X:340:THR:O	1:X:407:ARG:NH2	2.23	0.72
1:1:340:THR:O	1:1:407:ARG:NH2	2.23	0.71
1:2:531:ASP:OD1	1:2:569:LYS:NZ	2.21	0.71
1:4:328:GLN:HE22	1:4:333:LYS:HG3	1.55	0.71
1:A:340:THR:O	1:A:407:ARG:NH2	2.23	0.71
1:E:328:GLN:HE22	1:E:333:LYS:HG3	1.55	0.71
1:F:321:ILE:HD13	1:F:343:ILE:HD11	1.72	0.71
1:T:340:THR:O	1:T:407:ARG:NH2	2.23	0.71
1:V:240:VAL:HG13	1:V:687:TRP:HB2	1.72	0.71
1:Z:321:ILE:HD13	1:Z:343:ILE:HD11	1.72	0.71
1:K:321:ILE:HD13	1:K:343:ILE:HD11	1.72	0.71
1:N:613:ASP:CB	1:N:732:ARG:CD	2.65	0.71
1:R:328:GLN:HE22	1:R:333:LYS:HG3	1.55	0.71
1:U:240:VAL:HG13	1:U:687:TRP:HB2	1.72	0.71
1:Y:328:GLN:HE22	1:Y:333:LYS:HG3	1.55	0.71
1:Y:321:ILE:HD13	1:Y:343:ILE:HD11	1.72	0.71
1:5:340:THR:O	1:5:407:ARG:NH2	2.23	0.71
1:6:328:GLN:HE22	1:6:333:LYS:HG3	1.55	0.71
1:7:328:GLN:HE22	1:7:333:LYS:HG3	1.55	0.71
1:B:613:ASP:CB	1:B:732:ARG:CD	2.65	0.71
1:I:328:GLN:HE22	1:I:333:LYS:HG3	1.55	0.71
1:M:609:TRP:HH2	1:M:631:PHE:HZ	1.35	0.71
1:O:321:ILE:HD13	1:O:343:ILE:HD11	1.72	0.71
1:W:340:THR:O	1:W:407:ARG:NH2	2.23	0.71
1:Y:240:VAL:HG13	1:Y:687:TRP:HB2	1.72	0.71
1:Z:609:TRP:HE1	1:4:629:GLY:HA3	1.52	0.71
1:2:321:ILE:HD13	1:2:343:ILE:HD11	1.72	0.71
1:4:609:TRP:HH2	1:4:631:PHE:HZ	1.35	0.71
1:5:240:VAL:HG13	1:5:687:TRP:HB2	1.72	0.71
1:7:613:ASP:CB	1:7:732:ARG:CD	2.65	0.71
1:C:531:ASP:OD1	1:C:569:LYS:NZ	2.21	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:321:ILE:HD13	1:D:343:ILE:HD11	1.72	0.71
1:E:340:THR:O	1:E:407:ARG:NH2	2.23	0.71
1:F:629:GLY:HA3	1:Q:609:TRP:HE1	1.52	0.71
1:J:321:ILE:HD13	1:J:343:ILE:HD11	1.72	0.71
1:Q:340:THR:O	1:Q:407:ARG:NH2	2.23	0.71
1:R:240:VAL:HG13	1:R:687:TRP:HB2	1.72	0.71
1:R:613:ASP:CB	1:R:732:ARG:CD	2.65	0.71
1:1:240:VAL:HG13	1:1:687:TRP:HB2	1.72	0.71
1:8:328:GLN:HE22	1:8:333:LYS:HG3	1.55	0.71
1:B:340:THR:O	1:B:407:ARG:NH2	2.23	0.71
1:E:613:ASP:CB	1:E:732:ARG:CD	2.65	0.71
1:R:321:ILE:HD13	1:R:343:ILE:HD11	1.72	0.71
1:T:328:GLN:HE22	1:T:333:LYS:HG3	1.54	0.71
1:T:609:TRP:HH2	1:T:631:PHE:HZ	1.35	0.71
1:V:354:PRO:HB3	1:X:431:GLN:HE22	1.56	0.71
1:Y:613:ASP:CB	1:Y:732:ARG:CD	2.65	0.71
1:1:328:GLN:HE22	1:1:333:LYS:HG3	1.54	0.71
1:1:609:TRP:HH2	1:1:631:PHE:HZ	1.35	0.71
1:2:340:THR:O	1:2:407:ARG:NH2	2.23	0.71
1:3:609:TRP:HH2	1:3:631:PHE:HZ	1.35	0.71
1:C:340:THR:O	1:C:407:ARG:NH2	2.23	0.71
1:F:240:VAL:HG13	1:F:687:TRP:HB2	1.72	0.71
1:I:531:ASP:OD1	1:I:569:LYS:NZ	2.21	0.71
1:L:340:THR:O	1:L:407:ARG:NH2	2.23	0.71
1:R:340:THR:O	1:R:407:ARG:NH2	2.23	0.71
1:5:609:TRP:HE1	1:6:629:GLY:HA3	1.52	0.71
1:G:340:THR:O	1:G:407:ARG:NH2	2.23	0.71
1:I:340:THR:O	1:I:407:ARG:NH2	2.23	0.71
1:J:240:VAL:HG13	1:J:687:TRP:HB2	1.72	0.71
1:M:609:TRP:HE1	1:N:629:GLY:HA3	55.62	0.71
1:N:431:GLN:HE22	1:P:354:PRO:HB3	1.56	0.71
1:P:340:THR:O	1:P:407:ARG:NH2	2.23	0.71
1:T:240:VAL:HG13	1:T:687:TRP:HB2	1.72	0.71
1:6:321:ILE:HD13	1:6:343:ILE:HD11	1.72	0.71
1:A:431:GLN:HE22	1:8:354:PRO:HB3	151.44	0.71
1:G:609:TRP:HH2	1:G:631:PHE:HZ	1.35	0.71
1:M:321:ILE:HD13	1:M:343:ILE:HD11	1.72	0.71
1:Y:340:THR:O	1:Y:407:ARG:NH2	2.23	0.71
1:2:613:ASP:CB	1:2:731:THR:HG22	2.17	0.71
1:V:613:ASP:CB	1:V:731:THR:HG22	2.17	0.71
1:W:613:ASP:CB	1:W:731:THR:HG22	2.17	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:4:321:ILE:HD13	1:4:343:ILE:HD11	1.72	0.70
1:4:240:VAL:HG13	1:4:687:TRP:HB2	1.72	0.70
1:D:354:PRO:HB3	1:P:431:GLN:HE22	1.56	0.70
1:D:613:ASP:CB	1:D:731:THR:HG22	2.17	0.70
1:H:531:ASP:OD1	1:H:569:LYS:NZ	2.21	0.70
1:K:354:PRO:HB3	1:8:431:GLN:HE22	1.56	0.70
1:L:613:ASP:CB	1:L:731:THR:HG22	2.17	0.70
1:Z:613:ASP:CB	1:Z:731:THR:HG22	2.17	0.70
1:3:613:ASP:CB	1:3:731:THR:HG22	2.17	0.70
1:8:321:ILE:HD13	1:8:343:ILE:HD11	1.72	0.70
1:U:531:ASP:OD1	1:U:569:LYS:NZ	2.21	0.70
1:X:531:ASP:OD1	1:X:569:LYS:NZ	2.21	0.70
1:6:240:VAL:HG13	1:6:687:TRP:HB2	1.72	0.70
1:P:609:TRP:HH2	1:P:631:PHE:HZ	1.35	0.70
1:Q:613:ASP:CB	1:Q:731:THR:HG22	2.17	0.70
1:S:531:ASP:OD1	1:S:569:LYS:NZ	2.21	0.70
1:T:321:ILE:HD13	1:T:343:ILE:HD11	1.72	0.70
1:W:431:GLN:HE22	1:X:354:PRO:HB3	49.86	0.70
1:1:531:ASP:OD1	1:1:569:LYS:NZ	2.21	0.70
1:3:321:ILE:HD13	1:3:343:ILE:HD11	1.72	0.70
1:7:340:THR:O	1:7:407:ARG:NH2	2.23	0.70
1:8:340:THR:O	1:8:407:ARG:NH2	2.23	0.70
1:C:354:PRO:HB3	1:M:431:GLN:HE22	1.56	0.70
1:J:431:GLN:HE22	1:L:354:PRO:HB3	1.56	0.70
1:E:431:GLN:HE22	1:X:354:PRO:HB3	152.92	0.70
1:2:328:GLN:HE22	1:2:333:LYS:HG3	1.55	0.70
1:E:321:ILE:HD13	1:E:343:ILE:HD11	1.72	0.70
1:E:629:GLY:HA3	1:V:609:TRP:HE1	113.23	0.70
1:I:321:ILE:HD13	1:I:343:ILE:HD11	1.72	0.70
1:O:613:ASP:CB	1:O:731:THR:HG22	2.17	0.70
1:C:354:PRO:HB3	1:P:431:GLN:HE22	50.43	0.70
1:W:613:ASP:CB	1:W:732:ARG:CD	2.65	0.70
1:7:321:ILE:HD13	1:7:343:ILE:HD11	1.72	0.70
1:E:354:PRO:HB3	1:V:431:GLN:HE22	134.34	0.70
1:L:431:GLN:HE22	1:T:354:PRO:HB3	195.36	0.70
1:L:613:ASP:CB	1:L:732:ARG:CD	2.65	0.70
1:Z:431:GLN:HE22	1:1:354:PRO:HB3	95.21	0.70
1:1:609:TRP:HE1	1:2:629:GLY:HA3	1.52	0.70
1:3:354:PRO:HB3	1:4:431:GLN:HE22	1.57	0.70
1:5:328:GLN:HE22	1:5:333:LYS:HG3	1.55	0.70
1:5:531:ASP:OD1	1:5:569:LYS:NZ	2.21	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:431:GLN:HE22	1:I:354:PRO:HB3	1.56	0.70
1:T:531:ASP:OD1	1:T:569:LYS:NZ	2.21	0.70
1:B:354:PRO:HB3	1:C:431:GLN:HE22	48.18	0.70
1:W:354:PRO:HB3	1:Y:431:GLN:HE22	47.36	0.70
1:5:354:PRO:HB3	1:7:431:GLN:HE22	1.56	0.70
1:B:354:PRO:HB3	1:L:431:GLN:HE22	1.57	0.70
1:B:531:ASP:OD1	1:B:569:LYS:NZ	2.21	0.70
1:D:431:GLN:HE22	1:L:354:PRO:HB3	123.10	0.70
1:Q:321:ILE:HD13	1:Q:343:ILE:HD11	1.72	0.70
1:Y:613:ASP:CB	1:Y:731:THR:HG22	2.17	0.70
1:Z:431:GLN:HE22	1:4:354:PRO:HB3	1.57	0.70
1:5:321:ILE:HD13	1:5:343:ILE:HD11	1.72	0.70
1:H:354:PRO:HB3	1:Y:431:GLN:HE22	1.57	0.70
1:M:431:GLN:HE22	1:N:354:PRO:HB3	48.18	0.70
1:N:431:GLN:HE22	1:O:354:PRO:HB3	49.86	0.70
1:R:613:ASP:CB	1:R:731:THR:HG22	2.17	0.70
1:1:321:ILE:HD13	1:1:343:ILE:HD11	1.72	0.69
1:3:629:GLY:HA3	1:4:609:TRP:HE1	1.53	0.69
1:D:629:GLY:HA3	1:T:609:TRP:HE1	117.29	0.69
1:E:431:GLN:HE22	1:Q:354:PRO:HB3	1.56	0.69
1:E:609:TRP:HE1	1:Q:629:GLY:HA3	1.53	0.69
1:1:431:GLN:HE22	1:2:354:PRO:HB3	1.57	0.69
1:5:431:GLN:HE22	1:6:354:PRO:HB3	1.57	0.69
1:O:431:GLN:HE22	1:P:354:PRO:HB3	48.18	0.69
1:R:431:GLN:HE22	1:S:354:PRO:HB3	1.57	0.69
1:Z:354:PRO:HB3	1:2:431:GLN:HE22	83.20	0.69
1:F:354:PRO:HB3	1:G:431:GLN:HE22	93.39	0.69
1:F:354:PRO:HB3	1:Q:431:GLN:HE22	1.57	0.69
1:I:431:GLN:HE22	1:J:354:PRO:HB3	48.18	0.69
1:M:354:PRO:HB3	1:O:431:GLN:HE22	81.00	0.69
1:T:613:ASP:CB	1:T:731:THR:HG22	2.17	0.69
1:W:321:ILE:HD13	1:W:343:ILE:HD11	1.72	0.69
1:Z:354:PRO:HB3	1:3:431:GLN:HE22	1.56	0.69
1:8:531:ASP:OD1	1:8:569:LYS:NZ	2.21	0.69
1:A:326:VAL:HG21	1:A:333:LYS:HZ1	1.61	0.69
1:D:611:ASN:O	1:D:732:ARG:NH1	2.26	0.69
1:H:613:ASP:CB	1:H:731:THR:HG22	2.17	0.69
1:B:431:GLN:HE22	1:J:354:PRO:HB3	1.57	0.69
1:J:613:ASP:CB	1:J:731:THR:HG22	2.17	0.69
1:J:611:ASN:O	1:J:732:ARG:NH1	2.26	0.69
1:K:611:ASN:O	1:K:732:ARG:NH1	2.26	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:613:ASP:CB	1:M:731:THR:HG22	2.17	0.69
1:M:611:ASN:O	1:M:732:ARG:NH1	2.26	0.69
1:Q:611:ASN:O	1:Q:732:ARG:NH1	2.26	0.69
1:S:611:ASN:O	1:S:732:ARG:NH1	2.26	0.69
1:D:354:PRO:HB3	1:T:431:GLN:HE22	115.59	0.69
1:U:611:ASN:O	1:U:732:ARG:NH1	2.26	0.69
1:W:629:GLY:HA3	1:Y:609:TRP:HE1	16.89	0.69
1:4:611:ASN:O	1:4:732:ARG:NH1	2.26	0.69
1:5:611:ASN:O	1:5:732:ARG:NH1	2.26	0.69
1:B:321:ILE:HD13	1:B:343:ILE:HD11	1.72	0.69
1:B:431:GLN:HE22	1:M:354:PRO:HB3	121.50	0.69
1:C:611:ASN:O	1:C:732:ARG:NH1	2.26	0.69
1:A:431:GLN:HE22	1:G:354:PRO:HB3	1.57	0.69
1:G:611:ASN:O	1:G:732:ARG:NH1	2.26	0.69
1:G:354:PRO:HB3	1:H:431:GLN:HE22	49.86	0.69
1:I:611:ASN:O	1:I:732:ARG:NH1	2.26	0.69
1:I:354:PRO:HB3	1:K:431:GLN:HE22	81.00	0.69
1:L:531:ASP:OD1	1:L:569:LYS:NZ	2.21	0.69
1:N:609:TRP:HE1	1:O:629:GLY:HA3	69.18	0.69
1:N:613:ASP:CB	1:N:731:THR:HG22	2.17	0.69
1:N:611:ASN:O	1:N:732:ARG:NH1	2.26	0.69
1:T:354:PRO:HB3	1:V:431:GLN:HE22	80.99	0.69
1:4:613:ASP:CB	1:4:731:THR:HG22	2.17	0.69
1:5:629:GLY:HA3	1:7:609:TRP:HE1	1.53	0.69
1:H:611:ASN:O	1:H:732:ARG:NH1	2.26	0.69
1:P:613:ASP:CB	1:P:731:THR:HG22	2.17	0.69
1:W:611:ASN:O	1:W:732:ARG:NH1	2.26	0.69
1:K:613:ASP:CB	1:K:731:THR:HG22	2.17	0.69
1:Q:431:GLN:HE22	1:R:354:PRO:HB3	49.86	0.69
1:W:431:GLN:HE22	1:Y:354:PRO:HB3	1.56	0.69
1:Z:611:ASN:O	1:Z:732:ARG:NH1	2.26	0.69
1:3:611:ASN:O	1:3:732:ARG:NH1	2.26	0.69
1:4:613:ASP:CB	1:4:732:ARG:CD	2.65	0.69
1:6:431:GLN:HE22	1:7:354:PRO:HB3	1.57	0.69
1:8:613:ASP:CB	1:8:731:THR:HG22	2.17	0.69
1:F:431:GLN:HE22	1:H:354:PRO:HB3	123.10	0.69
1:F:611:ASN:O	1:F:732:ARG:NH1	2.26	0.69
1:O:611:ASN:O	1:O:732:ARG:NH1	2.26	0.69
1:R:354:PRO:HB3	1:U:431:GLN:HE22	1.57	0.69
1:6:611:ASN:O	1:6:732:ARG:NH1	2.26	0.69
1:7:611:ASN:O	1:7:732:ARG:NH1	2.26	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:611:ASN:O	1:B:732:ARG:NH1	2.26	0.69
1:I:611:ASN:O	1:I:732:ARG:NH1	2.26	0.69
1:8:609:TRP:HH2	1:8:631:PHE:HZ	1.35	0.69
1:E:611:ASN:O	1:E:732:ARG:NH1	2.26	0.69
1:2:611:ASN:O	1:2:732:ARG:NH1	2.26	0.69
1:E:354:PRO:HB3	1:F:431:GLN:HE22	1.57	0.69
1:J:431:GLN:HE22	1:K:354:PRO:HB3	49.85	0.69
1:R:611:ASN:O	1:R:732:ARG:NH1	2.26	0.69
1:T:611:ASN:O	1:T:732:ARG:NH1	2.26	0.69
1:G:609:TRP:CH2	1:G:631:PHE:CZ	2.80	0.68
1:L:611:ASN:O	1:L:732:ARG:NH1	2.26	0.68
1:T:431:GLN:HE22	1:U:354:PRO:HB3	48.19	0.68
1:T:609:TRP:CH2	1:T:631:PHE:CZ	2.80	0.68
1:7:484:PRO:HD3	1:7:609:TRP:HE3	1.59	0.68
1:8:611:ASN:O	1:8:732:ARG:NH1	2.26	0.68
1:B:484:PRO:HD3	1:B:609:TRP:HE3	1.59	0.68
1:P:611:ASN:O	1:P:732:ARG:NH1	2.26	0.68
1:U:484:PRO:HD3	1:U:609:TRP:HE3	1.59	0.68
1:V:611:ASN:O	1:V:732:ARG:NH1	2.26	0.68
1:3:484:PRO:HD3	1:3:609:TRP:HE3	1.59	0.68
1:D:484:PRO:HD3	1:D:609:TRP:HE3	1.59	0.68
1:E:484:PRO:HD3	1:E:609:TRP:HE3	1.59	0.68
1:I:609:TRP:CH2	1:I:631:PHE:CZ	2.80	0.68
1:K:484:PRO:HD3	1:K:609:TRP:HE3	1.59	0.68
1:Q:354:PRO:HB3	1:S:431:GLN:HE22	93.39	0.68
1:V:484:PRO:HD3	1:V:609:TRP:HE3	1.59	0.68
1:X:611:ASN:O	1:X:732:ARG:NH1	2.26	0.68
1:I:613:ASP:HB2	1:I:731:THR:CG2	2.19	0.68
1:K:402:PRO:HG3	1:W:232:ASP:HB3	155.14	0.68
1:O:484:PRO:HD3	1:O:609:TRP:HE3	1.59	0.68
1:6:609:TRP:HE1	1:7:629:GLY:HA3	1.52	0.68
1:8:484:PRO:HD3	1:8:609:TRP:HE3	1.59	0.68
1:N:484:PRO:HD3	1:N:609:TRP:HE3	1.59	0.68
1:N:609:TRP:HE1	1:P:629:GLY:HA3	1.52	0.68
1:H:431:GLN:HE22	1:W:354:PRO:HB3	1.57	0.68
1:Q:322:GLN:NE2	1:Y:340:THR:CB	157.88	0.68
1:A:484:PRO:HD3	1:A:609:TRP:HE3	1.59	0.68
1:A:613:ASP:CB	1:A:731:THR:HG22	2.17	0.68
1:A:611:ASN:O	1:A:732:ARG:NH1	2.26	0.68
1:G:326:VAL:HG21	1:G:333:LYS:HZ1	1.59	0.68
1:H:609:TRP:CH2	1:H:631:PHE:CZ	2.80	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:484:PRO:HD3	1:M:609:TRP:HE3	1.59	0.68
1:P:326:VAL:HG21	1:P:333:LYS:HZ1	1.74	0.68
1:W:326:VAL:HG21	1:W:333:LYS:HZ1	1.59	0.68
1:W:484:PRO:HD3	1:W:609:TRP:HE3	1.59	0.68
1:Z:484:PRO:HD3	1:Z:609:TRP:HE3	1.59	0.68
1:2:484:PRO:HD3	1:2:609:TRP:HE3	1.59	0.68
1:C:484:PRO:HD3	1:C:609:TRP:HE3	1.59	0.68
1:G:613:ASP:HB2	1:G:731:THR:CG2	2.19	0.68
1:I:484:PRO:HD3	1:I:609:TRP:HE3	1.59	0.68
1:Y:611:ASN:O	1:Y:732:ARG:NH1	2.26	0.68
1:F:613:ASP:HB2	1:F:731:THR:CG2	2.18	0.68
1:P:484:PRO:HD3	1:P:609:TRP:HE3	1.59	0.68
1:S:609:TRP:CH2	1:S:631:PHE:CZ	2.80	0.68
1:U:431:GLN:HE22	1:V:354:PRO:HB3	49.86	0.68
1:Y:484:PRO:HD3	1:Y:609:TRP:HE3	1.59	0.68
1:E:629:GLY:HA3	1:F:609:TRP:HE1	1.52	0.68
1:L:484:PRO:HD3	1:L:609:TRP:HE3	1.59	0.68
1:C:431:GLN:HE22	1:O:354:PRO:HB3	152.23	0.68
1:S:431:GLN:HE22	1:U:354:PRO:HB3	1.57	0.68
1:6:232:ASP:O	1:6:243:THR:HG22	1.94	0.68
1:A:609:TRP:HE1	1:8:629:GLY:HA3	125.64	0.68
1:A:354:PRO:HB3	1:I:431:GLN:HE22	1.57	0.68
1:B:232:ASP:O	1:B:243:THR:HG22	1.94	0.68
1:B:613:ASP:CB	1:B:731:THR:HG22	2.17	0.68
1:F:232:ASP:O	1:F:243:THR:HG22	1.94	0.68
1:G:484:PRO:HD3	1:G:609:TRP:HE3	1.59	0.68
1:H:232:ASP:O	1:H:243:THR:HG22	1.94	0.68
1:J:613:ASP:HB2	1:J:731:THR:CG2	2.19	0.68
1:D:431:GLN:HE22	1:N:354:PRO:HB3	1.56	0.68
1:P:609:TRP:CH2	1:P:631:PHE:CZ	2.80	0.68
1:S:232:ASP:O	1:S:243:THR:HG22	1.94	0.68
1:T:326:VAL:HG21	1:T:333:LYS:HZ1	1.58	0.68
1:X:613:ASP:CB	1:X:731:THR:HG22	2.17	0.68
1:A:232:ASP:O	1:A:243:THR:HG22	1.94	0.67
1:D:232:ASP:O	1:D:243:THR:HG22	1.95	0.67
1:F:609:TRP:CH2	1:F:631:PHE:CZ	2.80	0.67
1:G:232:ASP:O	1:G:243:THR:HG22	1.95	0.67
1:N:232:ASP:O	1:N:243:THR:HG22	1.95	0.67
1:O:232:ASP:O	1:O:243:THR:HG22	1.94	0.67
1:P:232:ASP:O	1:P:243:THR:HG22	1.95	0.67
1:U:232:ASP:O	1:U:243:THR:HG22	1.95	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:2:232:ASP:O	1:2:243:THR:HG22	1.95	0.67
1:3:322:GLN:HE21	1:8:340:THR:CB	2.07	0.67
1:4:484:PRO:HD3	1:4:609:TRP:HE3	1.59	0.67
1:A:484:PRO:HD3	1:A:609:TRP:CE3	2.30	0.67
1:G:484:PRO:HD3	1:G:609:TRP:CE3	2.30	0.67
1:J:609:TRP:CH2	1:J:631:PHE:CZ	2.80	0.67
1:P:484:PRO:HD3	1:P:609:TRP:CE3	2.30	0.67
1:Q:484:PRO:HD3	1:Q:609:TRP:HE3	1.59	0.67
1:T:484:PRO:HD3	1:T:609:TRP:HE3	1.59	0.67
1:U:484:PRO:HD3	1:U:609:TRP:CE3	2.30	0.67
1:5:232:ASP:O	1:5:243:THR:HG22	1.95	0.67
1:A:354:PRO:HB3	1:K:431:GLN:HE22	95.88	0.67
1:O:484:PRO:HD3	1:O:609:TRP:CE3	2.30	0.67
1:Q:232:ASP:O	1:Q:243:THR:HG22	1.95	0.67
1:R:484:PRO:HD3	1:R:609:TRP:HE3	1.59	0.67
1:V:484:PRO:HD3	1:V:609:TRP:CE3	2.30	0.67
1:1:613:ASP:CB	1:1:731:THR:HG22	2.17	0.67
1:8:232:ASP:O	1:8:243:THR:HG22	1.94	0.67
1:E:232:ASP:O	1:E:243:THR:HG22	1.95	0.67
1:K:232:ASP:O	1:K:243:THR:HG22	1.95	0.67
1:L:484:PRO:HD3	1:L:609:TRP:CE3	2.30	0.67
1:N:484:PRO:HD3	1:N:609:TRP:CE3	2.30	0.67
1:O:322:GLN:HE21	1:P:340:THR:CB	2.07	0.67
1:R:340:THR:CB	1:V:322:GLN:HE21	2.08	0.67
1:V:613:ASP:HB2	1:V:731:THR:CG2	2.19	0.67
1:Y:350:GLU:OE1	1:Y:352:GLN:NE2	2.28	0.67
1:7:232:ASP:O	1:7:243:THR:HG22	1.95	0.67
1:B:340:THR:CB	1:C:322:GLN:HE21	2.08	0.67
1:D:350:GLU:OE1	1:D:352:GLN:NE2	2.28	0.67
1:D:484:PRO:HD3	1:D:609:TRP:CE3	2.30	0.67
1:F:350:GLU:OE1	1:F:352:GLN:NE2	2.28	0.67
1:G:613:ASP:CB	1:G:731:THR:HG22	2.17	0.67
1:H:350:GLU:OE1	1:H:352:GLN:NE2	2.28	0.67
1:S:350:GLU:OE1	1:S:352:GLN:NE2	2.28	0.67
1:T:232:ASP:O	1:T:243:THR:HG22	1.95	0.67
1:V:232:ASP:O	1:V:243:THR:HG22	1.94	0.67
1:V:350:GLU:OE1	1:V:352:GLN:NE2	2.28	0.67
1:W:484:PRO:HD3	1:W:609:TRP:CE3	2.30	0.67
1:4:484:PRO:HD3	1:4:609:TRP:CE3	2.30	0.67
1:6:350:GLU:OE1	1:6:352:GLN:NE2	2.28	0.67
1:8:350:GLU:OE1	1:8:352:GLN:NE2	2.28	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:484:PRO:HD3	1:E:609:TRP:CE3	2.30	0.67
1:K:350:GLU:OE1	1:K:352:GLN:NE2	2.28	0.67
1:K:484:PRO:HD3	1:K:609:TRP:CE3	2.30	0.67
1:B:340:THR:CB	1:L:322:GLN:HE21	83.53	0.67
1:Q:322:GLN:HE21	1:Y:340:THR:CB	157.61	0.67
1:R:232:ASP:O	1:R:243:THR:HG22	1.95	0.67
1:T:484:PRO:HD3	1:T:609:TRP:CE3	2.30	0.67
1:V:340:THR:CB	1:W:322:GLN:NE2	2.58	0.67
1:X:484:PRO:HD3	1:X:609:TRP:HE3	1.59	0.67
1:Y:613:ASP:HB2	1:Y:731:THR:CG2	2.19	0.67
1:Z:484:PRO:HD3	1:Z:609:TRP:CE3	2.30	0.67
1:1:484:PRO:HD3	1:1:609:TRP:CE3	2.30	0.67
1:8:484:PRO:HD3	1:8:609:TRP:CE3	2.30	0.67
1:B:609:TRP:CH2	1:B:631:PHE:CZ	2.80	0.67
1:O:350:GLU:OE1	1:O:352:GLN:NE2	2.28	0.67
1:P:350:GLU:OE1	1:P:352:GLN:NE2	2.28	0.67
1:R:484:PRO:HD3	1:R:609:TRP:CE3	2.30	0.67
1:1:326:VAL:HG21	1:1:333:LYS:HZ1	1.59	0.67
1:3:350:GLU:OE1	1:3:352:GLN:NE2	2.28	0.67
1:C:350:GLU:OE1	1:C:352:GLN:NE2	2.28	0.67
1:F:613:ASP:CB	1:F:731:THR:HG22	2.17	0.67
1:I:326:VAL:HG21	1:I:333:LYS:HZ1	1.65	0.67
1:I:350:GLU:OE1	1:I:352:GLN:NE2	2.28	0.67
1:J:343:ILE:HD12	1:J:651:ILE:HD11	1.77	0.67
1:Q:350:GLU:OE1	1:Q:352:GLN:NE2	2.28	0.67
1:T:350:GLU:OE1	1:T:352:GLN:NE2	2.28	0.67
1:W:350:GLU:OE1	1:W:352:GLN:NE2	2.28	0.67
1:Z:232:ASP:O	1:Z:243:THR:HG22	1.94	0.67
1:V:340:THR:CB	1:1:322:GLN:HE21	164.75	0.67
1:1:350:GLU:OE1	1:1:352:GLN:NE2	2.28	0.67
1:2:350:GLU:OE1	1:2:352:GLN:NE2	2.28	0.67
1:3:484:PRO:HD3	1:3:609:TRP:CE3	2.30	0.67
1:5:350:GLU:OE1	1:5:352:GLN:NE2	2.28	0.67
1:5:613:ASP:CB	1:5:731:THR:HG22	2.17	0.67
1:A:350:GLU:OE1	1:A:352:GLN:NE2	2.28	0.67
1:B:322:GLN:HE21	1:O:340:THR:CB	122.12	0.67
1:B:484:PRO:HD3	1:B:609:TRP:CE3	2.30	0.67
1:C:484:PRO:HD3	1:C:609:TRP:CE3	2.30	0.67
1:F:343:ILE:HD12	1:F:651:ILE:HD11	1.77	0.67
1:H:484:PRO:HD3	1:H:609:TRP:HE3	1.59	0.67
1:I:484:PRO:HD3	1:I:609:TRP:CE3	2.30	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:484:PRO:HD3	1:J:609:TRP:CE3	2.30	0.67
1:L:232:ASP:O	1:L:243:THR:HG22	1.95	0.67
1:L:350:GLU:OE1	1:L:352:GLN:NE2	2.28	0.67
1:M:484:PRO:HD3	1:M:609:TRP:CE3	2.30	0.67
1:R:343:ILE:HD12	1:R:651:ILE:HD11	1.77	0.67
1:T:322:GLN:HE21	1:6:340:THR:CB	171.03	0.67
1:R:340:THR:CB	1:X:322:GLN:HE21	88.79	0.67
1:Y:343:ILE:HD12	1:Y:651:ILE:HD11	1.77	0.67
1:1:484:PRO:HD3	1:1:609:TRP:HE3	1.59	0.67
1:2:484:PRO:HD3	1:2:609:TRP:CE3	2.30	0.67
1:2:343:ILE:HD12	1:2:651:ILE:HD11	1.77	0.67
1:5:484:PRO:HD3	1:5:609:TRP:HE3	1.59	0.67
1:A:343:ILE:HD12	1:A:651:ILE:HD11	1.77	0.67
1:C:232:ASP:O	1:C:243:THR:HG22	1.95	0.67
1:D:343:ILE:HD12	1:D:651:ILE:HD11	1.77	0.67
1:G:350:GLU:OE1	1:G:352:GLN:NE2	2.28	0.67
1:I:232:ASP:O	1:I:243:THR:HG22	1.95	0.67
1:K:609:TRP:CH2	1:K:631:PHE:CZ	2.80	0.67
1:L:609:TRP:CH2	1:L:631:PHE:CZ	2.80	0.67
1:S:484:PRO:HD3	1:S:609:TRP:CE3	2.30	0.67
1:W:343:ILE:HD12	1:W:651:ILE:HD11	1.77	0.67
1:X:350:GLU:OE1	1:X:352:GLN:NE2	2.28	0.67
1:Z:350:GLU:OE1	1:Z:352:GLN:NE2	2.28	0.67
1:6:343:ILE:HD12	1:6:651:ILE:HD11	1.77	0.66
1:7:350:GLU:OE1	1:7:352:GLN:NE2	2.28	0.66
1:A:609:TRP:CH2	1:A:631:PHE:CZ	2.80	0.66
1:C:340:THR:CB	1:D:322:GLN:NE2	2.59	0.66
1:E:350:GLU:OE1	1:E:352:GLN:NE2	2.28	0.66
1:J:322:GLN:HE21	1:X:340:THR:CB	122.12	0.66
1:K:322:GLN:NE2	1:L:340:THR:CB	2.59	0.66
1:M:232:ASP:O	1:M:243:THR:HG22	1.94	0.66
1:N:343:ILE:HD12	1:N:651:ILE:HD11	1.77	0.66
1:N:350:GLU:OE1	1:N:352:GLN:NE2	2.28	0.66
1:Q:343:ILE:HD12	1:Q:651:ILE:HD11	1.77	0.66
1:Q:484:PRO:HD3	1:Q:609:TRP:CE3	2.30	0.66
1:F:340:THR:CB	1:R:322:GLN:HE21	2.08	0.66
1:3:343:ILE:HD12	1:3:651:ILE:HD11	1.77	0.66
1:5:343:ILE:HD12	1:5:651:ILE:HD11	1.77	0.66
1:C:609:TRP:CH2	1:C:631:PHE:CZ	2.80	0.66
1:I:343:ILE:HD12	1:I:651:ILE:HD11	1.77	0.66
1:J:232:ASP:O	1:J:243:THR:HG22	1.94	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:P:322:GLN:HE21	1:Q:340:THR:CB	2.08	0.66
1:Y:232:ASP:O	1:Y:243:THR:HG22	1.94	0.66
1:Z:340:THR:HB	1:4:322:GLN:NE2	97.41	0.66
1:1:343:ILE:HD12	1:1:651:ILE:HD11	1.77	0.66
1:3:322:GLN:NE2	1:8:340:THR:CB	2.58	0.66
1:4:232:ASP:O	1:4:243:THR:HG22	1.94	0.66
1:5:484:PRO:HD3	1:5:609:TRP:CE3	2.30	0.66
1:5:609:TRP:CH2	1:5:631:PHE:CZ	2.80	0.66
1:7:484:PRO:HD3	1:7:609:TRP:CE3	2.30	0.66
1:8:425:SER:O	1:8:732:ARG:NH2	2.29	0.66
1:B:350:GLU:OE1	1:B:352:GLN:NE2	2.28	0.66
1:B:425:SER:O	1:B:732:ARG:NH2	2.29	0.66
1:E:343:ILE:HD12	1:E:651:ILE:HD11	1.77	0.66
1:F:425:SER:O	1:F:732:ARG:NH2	2.29	0.66
1:G:322:GLN:HE21	1:W:340:THR:CB	2.09	0.66
1:G:343:ILE:HD12	1:G:651:ILE:HD11	1.77	0.66
1:G:425:SER:O	1:G:732:ARG:NH2	2.29	0.66
1:J:425:SER:O	1:J:732:ARG:NH2	2.29	0.66
1:L:340:THR:HB	1:N:322:GLN:NE2	120.92	0.66
1:O:343:ILE:HD12	1:O:651:ILE:HD11	1.77	0.66
1:O:609:TRP:CH2	1:O:631:PHE:CZ	2.80	0.66
1:P:425:SER:O	1:P:732:ARG:NH2	2.29	0.66
1:Q:609:TRP:CH2	1:Q:631:PHE:CZ	2.80	0.66
1:T:343:ILE:HD12	1:T:651:ILE:HD11	1.77	0.66
1:U:350:GLU:OE1	1:U:352:GLN:NE2	2.28	0.66
1:W:232:ASP:O	1:W:243:THR:HG22	1.94	0.66
1:K:340:THR:CB	1:W:322:GLN:HE21	171.16	0.66
1:Z:343:ILE:HD12	1:Z:651:ILE:HD11	1.77	0.66
1:6:484:PRO:HD3	1:6:609:TRP:CE3	2.30	0.66
1:A:425:SER:O	1:A:732:ARG:NH2	2.29	0.66
1:A:340:THR:CB	1:B:322:GLN:HE21	2.09	0.66
1:D:609:TRP:CH2	1:D:631:PHE:CZ	2.80	0.66
1:E:609:TRP:CH2	1:E:631:PHE:CZ	2.80	0.66
1:F:322:GLN:HE21	1:X:340:THR:CB	113.37	0.66
1:F:484:PRO:HD3	1:F:609:TRP:CE3	2.30	0.66
1:H:343:ILE:HD12	1:H:651:ILE:HD11	1.77	0.66
1:M:343:ILE:HD12	1:M:651:ILE:HD11	1.77	0.66
1:O:425:SER:O	1:O:732:ARG:NH2	2.29	0.66
1:C:340:THR:CB	1:S:322:GLN:HE21	108.98	0.66
1:S:343:ILE:HD12	1:S:651:ILE:HD11	1.77	0.66
1:U:343:ILE:HD12	1:U:651:ILE:HD11	1.77	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Y:484:PRO:HD3	1:Y:609:TRP:CE3	2.30	0.66
1:3:232:ASP:O	1:3:243:THR:HG22	1.94	0.66
1:4:350:GLU:OE1	1:4:352:GLN:NE2	2.28	0.66
1:4:425:SER:O	1:4:732:ARG:NH2	2.29	0.66
1:6:609:TRP:CH2	1:6:631:PHE:CZ	2.80	0.66
1:7:609:TRP:CH2	1:7:631:PHE:CZ	2.80	0.66
1:7:425:SER:O	1:7:732:ARG:NH2	2.29	0.66
1:D:613:ASP:HB2	1:D:731:THR:CG2	2.19	0.66
1:E:322:GLN:HE21	1:H:340:THR:CB	119.62	0.66
1:E:425:SER:O	1:E:732:ARG:NH2	2.29	0.66
1:G:340:THR:CB	1:K:322:GLN:NE2	159.81	0.66
1:H:322:GLN:HE21	1:I:340:THR:CB	2.08	0.66
1:H:484:PRO:HD3	1:H:609:TRP:CE3	2.30	0.66
1:O:322:GLN:NE2	1:P:340:THR:CB	2.58	0.66
1:P:322:GLN:NE2	1:Q:340:THR:CB	2.59	0.66
1:R:340:THR:CB	1:X:322:GLN:NE2	88.78	0.66
1:V:340:THR:HB	1:W:322:GLN:NE2	2.10	0.66
1:X:322:GLN:HE21	1:Y:340:THR:CB	2.08	0.66
1:Q:232:ASP:HB3	1:Y:402:PRO:HG3	119.88	0.66
1:A:322:GLN:NE2	1:Z:340:THR:HB	107.71	0.66
1:P:340:THR:CB	1:6:322:GLN:NE2	166.67	0.66
1:6:425:SER:O	1:6:732:ARG:NH2	2.29	0.66
1:5:340:THR:CB	1:8:322:GLN:NE2	2.59	0.66
1:F:322:GLN:NE2	1:G:340:THR:CB	2.59	0.66
1:F:484:PRO:HD3	1:F:609:TRP:HE3	1.59	0.66
1:H:322:GLN:NE2	1:I:340:THR:CB	2.59	0.66
1:J:350:GLU:OE1	1:J:352:GLN:NE2	2.28	0.66
1:N:425:SER:O	1:N:732:ARG:NH2	2.29	0.66
1:P:343:ILE:HD12	1:P:651:ILE:HD11	1.77	0.66
1:R:350:GLU:OE1	1:R:352:GLN:NE2	2.28	0.66
1:V:322:GLN:NE2	1:W:340:THR:CB	23.25	0.66
1:1:232:ASP:O	1:1:243:THR:HG22	1.95	0.66
1:1:425:SER:O	1:1:732:ARG:NH2	2.29	0.66
1:4:343:ILE:HD12	1:4:651:ILE:HD11	1.77	0.66
1:C:425:SER:O	1:C:732:ARG:NH2	2.29	0.66
1:C:343:ILE:HD12	1:C:651:ILE:HD11	1.77	0.66
1:C:340:THR:CB	1:D:322:GLN:HE21	2.08	0.66
1:D:425:SER:O	1:D:732:ARG:NH2	2.29	0.66
1:I:425:SER:O	1:I:732:ARG:NH2	2.29	0.66
1:K:613:ASP:HB2	1:K:731:THR:CG2	2.18	0.66
1:M:340:THR:HB	1:N:322:GLN:NE2	24.10	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:350:GLU:OE1	1:M:352:GLN:NE2	2.28	0.66
1:L:340:THR:CB	1:N:322:GLN:HE21	119.63	0.66
1:S:484:PRO:HD3	1:S:609:TRP:HE3	1.59	0.66
1:V:609:TRP:CH2	1:V:631:PHE:CZ	2.80	0.66
1:V:343:ILE:HD12	1:V:651:ILE:HD11	1.77	0.66
1:W:425:SER:O	1:W:732:ARG:NH2	2.29	0.66
1:X:232:ASP:O	1:X:243:THR:HG22	1.95	0.66
1:2:425:SER:O	1:2:732:ARG:NH2	2.29	0.66
1:O:322:GLN:NE2	1:7:340:THR:HB	163.63	0.66
1:B:343:ILE:HD12	1:B:651:ILE:HD11	1.77	0.66
1:D:340:THR:HB	1:E:322:GLN:NE2	2.11	0.66
1:E:326:VAL:HG21	1:E:333:LYS:HZ1	1.60	0.66
1:J:232:ASP:HB3	1:X:402:PRO:HG3	135.40	0.66
1:K:326:VAL:HG21	1:K:333:LYS:HZ1	1.60	0.66
1:Q:322:GLN:HE21	1:S:340:THR:CB	2.08	0.66
1:T:425:SER:O	1:T:732:ARG:NH2	2.29	0.66
1:U:609:TRP:CH2	1:U:631:PHE:CZ	2.80	0.66
1:V:340:THR:CB	1:1:322:GLN:NE2	165.52	0.66
1:V:322:GLN:NE2	1:W:340:THR:HB	24.10	0.66
1:Y:425:SER:O	1:Y:732:ARG:NH2	2.29	0.66
1:Z:613:ASP:HB2	1:Z:731:THR:CG2	2.19	0.66
1:Z:340:THR:CB	1:4:322:GLN:HE21	97.02	0.66
1:Y:322:GLN:NE2	1:4:340:THR:CB	2.59	0.66
1:U:340:THR:CB	1:5:322:GLN:NE2	177.14	0.66
1:6:484:PRO:HD3	1:6:609:TRP:HE3	1.59	0.66
1:C:322:GLN:NE2	1:M:340:THR:CB	97.45	0.66
1:C:613:ASP:CB	1:C:731:THR:HG22	2.17	0.66
1:D:326:VAL:HG21	1:D:333:LYS:HZ1	1.61	0.66
1:D:340:THR:CB	1:E:322:GLN:NE2	2.59	0.66
1:H:340:THR:CB	1:Z:322:GLN:NE2	2.59	0.66
1:H:425:SER:O	1:H:732:ARG:NH2	2.29	0.66
1:I:322:GLN:NE2	1:J:340:THR:CB	2.59	0.66
1:J:484:PRO:HD3	1:J:609:TRP:HE3	1.59	0.66
1:K:322:GLN:HE21	1:L:340:THR:CB	2.08	0.66
1:K:340:THR:CB	1:7:322:GLN:NE2	2.59	0.66
1:K:340:THR:HB	1:7:322:GLN:NE2	2.11	0.66
1:K:425:SER:O	1:K:732:ARG:NH2	2.29	0.66
1:L:340:THR:CB	1:N:322:GLN:NE2	120.44	0.66
1:N:340:THR:CB	1:R:322:GLN:NE2	159.81	0.66
1:N:340:THR:CB	1:R:322:GLN:HE21	159.52	0.66
1:Q:322:GLN:NE2	1:S:340:THR:CB	2.59	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:340:THR:CB	1:U:322:GLN:NE2	157.80	0.66
1:Y:609:TRP:CH2	1:Y:631:PHE:CZ	2.80	0.66
1:2:322:GLN:NE2	1:3:340:THR:CB	2.59	0.66
1:U:340:THR:CB	1:5:322:GLN:HE21	176.58	0.66
1:5:425:SER:O	1:5:732:ARG:NH2	2.29	0.66
1:6:613:ASP:CB	1:6:731:THR:HG22	2.17	0.66
1:7:326:VAL:HG21	1:7:333:LYS:HZ1	1.60	0.66
1:G:322:GLN:NE2	1:1:340:THR:CB	166.67	0.66
1:I:322:GLN:NE2	1:T:340:THR:CB	175.72	0.66
1:K:343:ILE:HD12	1:K:651:ILE:HD11	1.77	0.66
1:M:322:GLN:NE2	1:S:340:THR:CB	108.69	0.66
1:M:425:SER:O	1:M:732:ARG:NH2	2.29	0.66
1:Q:425:SER:O	1:Q:732:ARG:NH2	2.29	0.66
1:V:425:SER:O	1:V:732:ARG:NH2	2.29	0.66
1:X:322:GLN:NE2	1:Y:340:THR:CB	2.59	0.66
1:Y:322:GLN:HE21	1:4:340:THR:CB	2.08	0.66
1:E:232:ASP:HB3	1:H:402:PRO:HG3	131.61	0.65
1:A:322:GLN:NE2	1:E:340:THR:HB	2.11	0.65
1:F:340:THR:CB	1:Z:322:GLN:NE2	111.81	0.65
1:L:425:SER:O	1:L:732:ARG:NH2	2.29	0.65
1:D:322:GLN:NE2	1:O:340:THR:CB	107.71	0.65
1:R:340:THR:CB	1:V:322:GLN:NE2	2.59	0.65
1:R:425:SER:O	1:R:732:ARG:NH2	2.29	0.65
1:S:425:SER:O	1:S:732:ARG:NH2	2.29	0.65
1:T:322:GLN:NE2	1:U:340:THR:CB	2.59	0.65
1:U:425:SER:O	1:U:732:ARG:NH2	2.29	0.65
1:R:402:PRO:HG3	1:X:232:ASP:HB3	66.99	0.65
1:U:322:GLN:NE2	1:2:340:THR:CB	168.62	0.65
1:Z:340:THR:CB	1:4:322:GLN:NE2	97.45	0.65
1:A:340:THR:CB	1:J:322:GLN:NE2	90.32	0.65
1:A:402:PRO:HG3	1:J:232:ASP:HB3	68.13	0.65
1:D:340:THR:CB	1:S:322:GLN:NE2	103.72	0.65
1:H:402:PRO:HG3	1:Z:232:ASP:HB3	1.79	0.65
1:L:343:ILE:HD12	1:L:651:ILE:HD11	1.77	0.65
1:M:232:ASP:HB3	1:N:402:PRO:HG3	1.79	0.65
1:X:484:PRO:HD3	1:X:609:TRP:CE3	2.30	0.65
1:Z:425:SER:O	1:Z:732:ARG:NH2	2.29	0.65
1:2:609:TRP:CH2	1:2:631:PHE:CZ	2.80	0.65
1:Y:232:ASP:HB3	1:4:402:PRO:HG3	1.79	0.65
1:C:340:THR:CB	1:S:322:GLN:NE2	109.77	0.65
1:E:322:GLN:NE2	1:H:340:THR:CB	120.43	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:340:THR:CB	1:L:322:GLN:NE2	97.45	0.65
1:L:613:ASP:HB2	1:L:731:THR:CG2	2.18	0.65
1:M:232:ASP:HB3	1:S:402:PRO:HG3	104.59	0.65
1:M:322:GLN:HE21	1:N:340:THR:CB	2.08	0.65
1:M:322:GLN:NE2	1:N:340:THR:CB	2.59	0.65
1:M:322:GLN:NE2	1:N:340:THR:HB	2.12	0.65
1:N:402:PRO:HG3	1:R:232:ASP:HB3	122.21	0.65
1:F:232:ASP:HB3	1:X:402:PRO:HG3	112.58	0.65
1:O:322:GLN:NE2	1:7:340:THR:CB	164.14	0.65
1:5:402:PRO:HG3	1:8:232:ASP:HB3	1.78	0.65
1:B:322:GLN:NE2	1:O:340:THR:CB	122.72	0.65
1:F:326:VAL:HG21	1:F:333:LYS:HZ1	1.61	0.65
1:A:340:THR:CB	1:J:322:GLN:HE21	89.87	0.65
1:P:232:ASP:HB3	1:Q:402:PRO:HG3	1.78	0.65
1:S:613:ASP:HB2	1:S:731:THR:CG2	2.18	0.65
1:U:613:ASP:HB2	1:U:731:THR:CG2	2.18	0.65
1:W:609:TRP:CH2	1:W:631:PHE:CZ	2.80	0.65
1:F:340:THR:CB	1:Z:322:GLN:HE21	111.68	0.65
1:U:322:GLN:NE2	1:2:340:THR:HB	168.16	0.65
1:6:326:VAL:HG21	1:6:333:LYS:HZ1	1.61	0.65
1:5:340:THR:CB	1:8:322:GLN:HE21	2.08	0.65
1:H:232:ASP:HB3	1:I:402:PRO:HG3	1.79	0.65
1:J:340:THR:CB	1:L:322:GLN:HE21	97.02	0.65
1:G:232:ASP:HB3	1:W:402:PRO:HG3	1.79	0.65
1:4:326:VAL:HG21	1:4:333:LYS:HZ1	1.61	0.65
1:8:609:TRP:CH2	1:8:631:PHE:CZ	2.80	0.65
1:8:343:ILE:HD12	1:8:651:ILE:HD11	1.77	0.65
1:A:473:MET:HE1	1:8:275:TYR:HB3	167.94	0.65
1:A:340:THR:CB	1:B:322:GLN:NE2	2.59	0.65
1:C:402:PRO:HG3	1:S:232:ASP:HB3	117.79	0.65
1:D:402:PRO:HG3	1:S:232:ASP:HB3	94.32	0.65
1:E:404:GLN:NE2	1:E:406:LEU:HD11	2.12	0.65
1:G:340:THR:CB	1:K:322:GLN:HE21	159.52	0.65
1:B:340:THR:CB	1:L:322:GLN:NE2	83.45	0.65
1:D:322:GLN:NE2	1:O:340:THR:HB	108.25	0.65
1:N:473:MET:HE1	1:P:275:TYR:HB3	1.79	0.65
1:V:340:THR:CB	1:W:322:GLN:HE21	2.07	0.65
1:3:609:TRP:CH2	1:3:631:PHE:CZ	2.80	0.65
1:P:340:THR:CB	1:6:322:GLN:HE21	166.16	0.65
1:7:404:GLN:NE2	1:7:406:LEU:HD11	2.12	0.65
1:A:232:ASP:HB3	1:E:402:PRO:HG3	1.79	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:322:GLN:NE2	1:E:340:THR:CB	2.59	0.65
1:E:473:MET:HE1	1:Q:275:TYR:HB3	1.79	0.65
1:F:322:GLN:HE21	1:G:340:THR:CB	2.08	0.65
1:F:340:THR:CB	1:R:322:GLN:NE2	2.59	0.65
1:G:404:GLN:NE2	1:G:406:LEU:HD11	2.12	0.65
1:H:404:GLN:NE2	1:H:406:LEU:HD11	2.12	0.65
1:J:322:GLN:NE2	1:X:340:THR:CB	122.73	0.65
1:M:322:GLN:HE21	1:S:340:THR:CB	108.61	0.65
1:M:340:THR:CB	1:N:322:GLN:NE2	23.25	0.65
1:N:609:TRP:CH2	1:N:631:PHE:CZ	2.80	0.65
1:D:232:ASP:HB3	1:O:402:PRO:HG3	104.16	0.65
1:P:404:GLN:NE2	1:P:406:LEU:HD11	2.12	0.65
1:R:340:THR:HB	1:V:322:GLN:NE2	2.11	0.65
1:R:340:THR:HB	1:X:322:GLN:NE2	88.01	0.65
1:S:404:GLN:NE2	1:S:406:LEU:HD11	2.12	0.65
1:T:322:GLN:NE2	1:6:340:THR:CB	171.84	0.65
1:T:340:THR:HB	1:Y:322:GLN:NE2	119.97	0.65
1:U:232:ASP:HB3	1:2:402:PRO:HG3	146.23	0.65
1:X:232:ASP:HB3	1:Y:402:PRO:HG3	1.79	0.65
1:A:322:GLN:NE2	1:Z:340:THR:CB	107.53	0.65
1:2:232:ASP:HB3	1:3:402:PRO:HG3	1.79	0.65
1:2:322:GLN:NE2	1:3:340:THR:HB	2.11	0.65
1:5:275:TYR:HB3	1:7:473:MET:HE1	1.79	0.65
1:A:473:MET:HE1	1:G:275:TYR:HB3	1.79	0.65
1:B:404:GLN:NE2	1:B:406:LEU:HD11	2.12	0.65
1:B:340:THR:CB	1:C:322:GLN:NE2	2.59	0.65
1:C:402:PRO:HG3	1:D:232:ASP:HB3	1.78	0.65
1:E:340:THR:HB	1:U:322:GLN:NE2	157.26	0.65
1:G:402:PRO:HG3	1:K:232:ASP:HB3	122.21	0.65
1:U:473:MET:HE1	1:V:275:TYR:HB3	56.99	0.65
1:V:404:GLN:NE2	1:V:406:LEU:HD11	2.12	0.65
1:W:473:MET:HE1	1:X:275:TYR:HB3	56.98	0.65
1:X:425:SER:O	1:X:732:ARG:NH2	2.29	0.65
1:X:343:ILE:HD12	1:X:651:ILE:HD11	1.77	0.65
1:Y:404:GLN:NE2	1:Y:406:LEU:HD11	2.12	0.65
1:1:609:TRP:CH2	1:1:631:PHE:CZ	2.80	0.65
1:A:404:GLN:NE2	1:A:406:LEU:HD11	2.12	0.65
1:C:404:GLN:NE2	1:C:406:LEU:HD11	2.12	0.65
1:I:404:GLN:NE2	1:I:406:LEU:HD11	2.12	0.65
1:L:404:GLN:NE2	1:L:406:LEU:HD11	2.12	0.65
1:D:275:TYR:HB3	1:P:473:MET:HE1	1.78	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:U:404:GLN:NE2	1:U:406:LEU:HD11	2.12	0.65
1:G:322:GLN:NE2	1:W:340:THR:CB	2.59	0.65
1:J:322:GLN:NE2	1:X:340:THR:HB	123.19	0.65
1:H:340:THR:CB	1:Z:322:GLN:HE21	2.08	0.65
1:4:404:GLN:NE2	1:4:406:LEU:HD11	2.12	0.65
1:F:340:THR:HB	1:R:322:GLN:NE2	2.11	0.65
1:K:232:ASP:HB3	1:L:402:PRO:HG3	1.78	0.65
1:N:404:GLN:NE2	1:N:406:LEU:HD11	2.12	0.65
1:T:340:THR:CB	1:Y:322:GLN:NE2	119.86	0.65
1:S:473:MET:HE1	1:U:275:TYR:HB3	1.78	0.65
1:E:340:THR:CB	1:U:322:GLN:HE21	157.37	0.65
1:F:322:GLN:NE2	1:X:340:THR:CB	113.97	0.65
1:F:322:GLN:NE2	1:X:340:THR:HB	114.03	0.65
1:Z:404:GLN:NE2	1:Z:406:LEU:HD11	2.12	0.65
1:5:613:ASP:HB2	1:5:731:THR:CG2	2.18	0.64
1:T:322:GLN:NE2	1:6:340:THR:HB	171.43	0.64
1:8:404:GLN:NE2	1:8:406:LEU:HD11	2.12	0.64
1:K:275:TYR:HB3	1:8:473:MET:HE1	1.78	0.64
1:E:275:TYR:HB3	1:F:473:MET:HE1	1.79	0.64
1:O:232:ASP:HB3	1:P:402:PRO:HG3	1.78	0.64
1:T:613:ASP:HB2	1:T:731:THR:CG2	2.19	0.64
1:R:402:PRO:HG3	1:V:232:ASP:HB3	1.78	0.64
1:X:404:GLN:NE2	1:X:406:LEU:HD11	2.12	0.64
1:3:425:SER:O	1:3:732:ARG:NH2	2.29	0.64
1:5:473:MET:HE1	1:6:275:TYR:HB3	1.79	0.64
1:6:473:MET:HE1	1:7:275:TYR:HB3	1.79	0.64
1:O:232:ASP:HB3	1:7:402:PRO:HG3	142.00	0.64
1:7:343:ILE:HD12	1:7:651:ILE:HD11	1.77	0.64
1:B:340:THR:HB	1:L:322:GLN:NE2	82.63	0.64
1:D:404:GLN:NE2	1:D:406:LEU:HD11	2.12	0.64
1:G:232:ASP:HB3	1:1:402:PRO:HG3	140.55	0.64
1:K:404:GLN:NE2	1:K:406:LEU:HD11	2.12	0.64
1:C:232:ASP:HB3	1:M:402:PRO:HG3	73.44	0.64
1:R:404:GLN:NE2	1:R:406:LEU:HD11	2.12	0.64
1:T:232:ASP:HB3	1:6:402:PRO:HG3	167.73	0.64
1:X:322:GLN:NE2	1:Y:340:THR:HB	2.11	0.64
1:1:404:GLN:NE2	1:1:406:LEU:HD11	2.12	0.64
1:1:613:ASP:HB2	1:1:731:THR:CG2	2.19	0.64
1:B:613:ASP:HB3	1:B:732:ARG:NE	2.13	0.64
1:C:340:THR:HB	1:S:322:GLN:NE2	109.05	0.64
1:F:275:TYR:HB3	1:Q:473:MET:HE1	1.79	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:402:PRO:HG3	1:R:232:ASP:HB3	1.79	0.64
1:I:232:ASP:HB3	1:J:402:PRO:HG3	1.79	0.64
1:I:232:ASP:HB3	1:T:402:PRO:HG3	170.00	0.64
1:M:404:GLN:NE2	1:M:406:LEU:HD11	2.12	0.64
1:O:322:GLN:HE21	1:7:340:THR:CB	163.82	0.64
1:B:322:GLN:NE2	1:O:340:THR:HB	123.19	0.64
1:O:404:GLN:NE2	1:O:406:LEU:HD11	2.12	0.64
1:Q:613:ASP:HB3	1:Q:732:ARG:NE	2.13	0.64
1:T:404:GLN:NE2	1:T:406:LEU:HD11	2.12	0.64
1:E:275:TYR:HB3	1:V:473:MET:HE1	152.04	0.64
1:T:275:TYR:HB3	1:V:473:MET:HE1	90.79	0.64
1:W:613:ASP:HB3	1:W:732:ARG:NE	2.13	0.64
1:3:232:ASP:HB3	1:8:402:PRO:HG3	1.78	0.64
1:4:613:ASP:HB3	1:4:732:ARG:NE	2.13	0.64
1:B:340:THR:HB	1:C:322:GLN:NE2	2.11	0.64
1:M:613:ASP:HB2	1:M:731:THR:CG2	2.18	0.64
1:N:613:ASP:HB3	1:N:732:ARG:NE	2.13	0.64
1:O:613:ASP:HB2	1:O:731:THR:CG2	2.18	0.64
1:E:402:PRO:HG3	1:U:232:ASP:HB3	119.48	0.64
1:V:340:THR:HB	1:1:322:GLN:NE2	164.94	0.64
1:P:402:PRO:HG3	1:6:232:ASP:HB3	140.55	0.64
1:7:613:ASP:CB	1:7:731:THR:HG22	2.17	0.64
1:7:613:ASP:HB3	1:7:732:ARG:NE	2.13	0.64
1:A:492:SER:O	1:A:498:ASN:ND2	2.31	0.64
1:C:613:ASP:HB2	1:C:731:THR:CG2	2.18	0.64
1:D:484:PRO:CD	1:D:609:TRP:HE3	2.11	0.64
1:K:484:PRO:CD	1:K:609:TRP:HE3	2.11	0.64
1:L:613:ASP:HB3	1:L:732:ARG:NE	2.13	0.64
1:O:473:MET:HE1	1:P:275:TYR:HB3	57.25	0.64
1:O:492:SER:O	1:O:498:ASN:ND2	2.31	0.64
1:Q:404:GLN:NE2	1:Q:406:LEU:HD11	2.12	0.64
1:Q:613:ASP:HB2	1:Q:731:THR:CG2	2.18	0.64
1:Q:473:MET:HE1	1:R:275:TYR:HB3	56.99	0.64
1:R:275:TYR:HB3	1:U:473:MET:HE1	1.79	0.64
1:S:326:VAL:HG21	1:S:333:LYS:HZ1	1.63	0.64
1:T:492:SER:O	1:T:498:ASN:ND2	2.31	0.64
1:U:326:VAL:HG21	1:U:333:LYS:HZ1	1.68	0.64
1:U:484:PRO:CD	1:U:609:TRP:HE3	2.11	0.64
1:V:322:GLN:HE21	1:W:340:THR:CB	22.72	0.64
1:Z:613:ASP:HB3	1:Z:732:ARG:NE	2.13	0.64
1:1:492:SER:O	1:1:498:ASN:ND2	2.31	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:3:484:PRO:CD	1:3:609:TRP:HE3	2.11	0.64
1:U:402:PRO:HG3	1:5:232:ASP:HB3	169.47	0.64
1:5:404:GLN:NE2	1:5:406:LEU:HD11	2.12	0.64
1:K:340:THR:CB	1:7:322:GLN:HE21	2.08	0.64
1:A:322:GLN:HE21	1:E:340:THR:CB	2.09	0.64
1:A:340:THR:HB	1:B:322:GLN:NE2	2.11	0.64
1:A:484:PRO:CD	1:A:609:TRP:HE3	2.11	0.64
1:B:402:PRO:HG3	1:C:232:ASP:HB3	1.78	0.64
1:E:613:ASP:HB3	1:E:732:ARG:NE	2.13	0.64
1:K:340:THR:CB	1:W:322:GLN:NE2	171.93	0.64
1:B:473:MET:HE1	1:M:275:TYR:HB3	135.14	0.64
1:O:484:PRO:CD	1:O:609:TRP:HE3	2.11	0.64
1:P:492:SER:O	1:P:498:ASN:ND2	2.31	0.64
1:D:340:THR:CB	1:S:322:GLN:HE21	102.94	0.64
1:V:484:PRO:CD	1:V:609:TRP:HE3	2.11	0.64
1:W:382:THR:HG22	1:W:383:LEU:H	1.63	0.64
1:W:498:ASN:OD1	1:Y:587:GLN:NE2	40.20	0.64
1:1:484:PRO:CD	1:1:609:TRP:HE3	2.11	0.64
1:8:613:ASP:HB3	1:8:732:ARG:NE	2.13	0.64
1:A:613:ASP:HB2	1:A:731:THR:CG2	2.19	0.64
1:C:484:PRO:CD	1:C:609:TRP:HE3	2.11	0.64
1:C:613:ASP:HB3	1:C:732:ARG:NE	2.13	0.64
1:D:340:THR:CB	1:E:322:GLN:HE21	2.08	0.64
1:E:492:SER:O	1:E:498:ASN:ND2	2.31	0.64
1:F:232:ASP:HB3	1:G:402:PRO:HG3	1.79	0.64
1:G:492:SER:O	1:G:498:ASN:ND2	2.31	0.64
1:H:613:ASP:HB3	1:H:732:ARG:NE	2.13	0.64
1:I:484:PRO:CD	1:I:609:TRP:HE3	2.11	0.64
1:J:484:PRO:CD	1:J:609:TRP:HE3	2.11	0.64
1:K:613:ASP:HB3	1:K:732:ARG:NE	2.13	0.64
1:P:613:ASP:HB3	1:P:732:ARG:NE	2.13	0.64
1:Q:484:PRO:CD	1:Q:609:TRP:HE3	2.11	0.64
1:R:613:ASP:HB3	1:R:732:ARG:NE	2.13	0.64
1:T:613:ASP:HB3	1:T:732:ARG:NE	2.13	0.64
1:U:322:GLN:HE21	1:2:340:THR:CB	168.06	0.64
1:T:322:GLN:NE2	1:U:340:THR:HB	2.11	0.64
1:W:404:GLN:NE2	1:W:406:LEU:HD11	2.12	0.64
1:W:492:SER:O	1:W:498:ASN:ND2	2.31	0.64
1:X:613:ASP:HB2	1:X:731:THR:CG2	2.18	0.64
1:Y:326:VAL:HG21	1:Y:333:LYS:HZ1	1.63	0.64
1:2:613:ASP:HB3	1:2:732:ARG:NE	2.13	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:5:484:PRO:CD	1:5:609:TRP:HE3	2.11	0.64
1:6:484:PRO:CD	1:6:609:TRP:HE3	2.11	0.64
1:B:402:PRO:HG3	1:L:232:ASP:HB3	38.39	0.64
1:C:322:GLN:HE21	1:M:340:THR:CB	97.02	0.64
1:F:613:ASP:HB3	1:F:732:ARG:NE	2.13	0.64
1:G:484:PRO:CD	1:G:609:TRP:HE3	2.11	0.64
1:H:340:THR:HB	1:Z:322:GLN:NE2	2.11	0.64
1:J:404:GLN:NE2	1:J:406:LEU:HD11	2.12	0.64
1:M:609:TRP:CH2	1:M:631:PHE:CZ	2.80	0.64
1:Q:382:THR:HG22	1:Q:383:LEU:H	1.63	0.64
1:T:484:PRO:CD	1:T:609:TRP:HE3	2.11	0.64
1:V:275:TYR:HB3	1:X:473:MET:HE1	1.79	0.64
1:V:326:VAL:HG21	1:V:333:LYS:HZ1	1.61	0.64
1:V:402:PRO:HG3	1:1:232:ASP:HB3	142.52	0.64
1:W:484:PRO:CD	1:W:609:TRP:HE3	2.11	0.64
1:W:613:ASP:HB2	1:W:731:THR:CG2	2.18	0.64
1:Z:609:TRP:CH2	1:Z:631:PHE:CZ	2.80	0.64
1:2:326:VAL:HG21	1:2:333:LYS:HZ1	1.62	0.64
1:6:613:ASP:HB3	1:6:732:ARG:NE	2.13	0.64
1:8:484:PRO:CD	1:8:609:TRP:HE3	2.11	0.64
1:A:232:ASP:HB3	1:Z:402:PRO:HG3	116.06	0.64
1:B:232:ASP:HB3	1:O:402:PRO:HG3	135.40	0.64
1:B:484:PRO:CD	1:B:609:TRP:HE3	2.11	0.64
1:B:275:TYR:HB3	1:C:473:MET:HE1	57.22	0.64
1:D:473:MET:HE1	1:N:275:TYR:HB3	1.80	0.64
1:D:613:ASP:HB3	1:D:732:ARG:NE	2.13	0.64
1:E:613:ASP:HB2	1:E:731:THR:CG2	2.18	0.64
1:F:382:THR:HG22	1:F:383:LEU:H	1.63	0.64
1:F:484:PRO:CD	1:F:609:TRP:HE3	2.11	0.64
1:I:382:THR:HG22	1:I:383:LEU:H	1.63	0.64
1:L:484:PRO:CD	1:L:609:TRP:HE3	2.11	0.64
1:M:402:PRO:HG3	1:N:232:ASP:HB3	57.94	0.64
1:P:484:PRO:CD	1:P:609:TRP:HE3	2.11	0.64
1:Q:232:ASP:HB3	1:S:402:PRO:HG3	1.79	0.64
1:U:382:THR:HG22	1:U:383:LEU:H	1.63	0.64
1:V:382:THR:HG22	1:V:383:LEU:H	1.63	0.64
1:W:473:MET:HE1	1:Y:275:TYR:HB3	1.79	0.64
1:Q:322:GLN:NE2	1:Y:340:THR:OG1	158.93	0.64
1:2:484:PRO:CD	1:2:609:TRP:HE3	2.11	0.64
1:6:382:THR:HG22	1:6:383:LEU:H	1.63	0.64
1:7:382:THR:HG22	1:7:383:LEU:H	1.63	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:382:THR:HG22	1:D:383:LEU:H	1.63	0.64
1:E:382:THR:HG22	1:E:383:LEU:H	1.63	0.64
1:E:613:ASP:CB	1:E:731:THR:HG22	2.17	0.64
1:F:404:GLN:NE2	1:F:406:LEU:HD11	2.12	0.64
1:G:382:THR:HG22	1:G:383:LEU:H	1.63	0.64
1:F:473:MET:HE1	1:H:275:TYR:HB3	139.10	0.64
1:I:322:GLN:HE21	1:J:340:THR:CB	2.09	0.64
1:B:275:TYR:HB3	1:L:473:MET:HE1	1.79	0.64
1:P:382:THR:HG22	1:P:383:LEU:H	1.63	0.64
1:R:609:TRP:CH2	1:R:631:PHE:CZ	2.80	0.64
1:M:322:GLN:NE2	1:S:340:THR:HB	108.67	0.64
1:S:484:PRO:CD	1:S:609:TRP:HE3	2.11	0.64
1:I:322:GLN:NE2	1:T:340:THR:HB	175.76	0.64
1:T:232:ASP:HB3	1:U:402:PRO:HG3	1.79	0.64
1:U:613:ASP:HB3	1:U:732:ARG:NE	2.13	0.64
1:V:613:ASP:HB3	1:V:732:ARG:NE	2.13	0.64
1:2:404:GLN:NE2	1:2:406:LEU:HD11	2.12	0.63
1:3:404:GLN:NE2	1:3:406:LEU:HD11	2.12	0.63
1:6:404:GLN:NE2	1:6:406:LEU:HD11	2.12	0.63
1:A:613:ASP:HB3	1:A:732:ARG:NE	2.13	0.63
1:C:382:THR:HG22	1:C:383:LEU:H	1.63	0.63
1:K:382:THR:HG22	1:K:383:LEU:H	1.63	0.63
1:M:484:PRO:CD	1:M:609:TRP:HE3	2.11	0.63
1:O:613:ASP:HB3	1:O:732:ARG:NE	2.13	0.63
1:R:484:PRO:CD	1:R:609:TRP:HE3	2.11	0.63
1:V:492:SER:O	1:V:498:ASN:ND2	2.31	0.63
1:V:402:PRO:HG3	1:W:232:ASP:HB3	1.78	0.63
1:X:613:ASP:HB3	1:X:732:ARG:NE	2.13	0.63
1:Y:382:THR:HG22	1:Y:383:LEU:H	1.63	0.63
1:Y:613:ASP:HB3	1:Y:732:ARG:NE	2.13	0.63
1:Z:484:PRO:CD	1:Z:609:TRP:HE3	2.11	0.63
1:3:492:SER:O	1:3:498:ASN:ND2	2.31	0.63
1:Z:402:PRO:HG3	1:4:232:ASP:HB3	73.44	0.63
1:7:484:PRO:CD	1:7:609:TRP:HE3	2.11	0.63
1:8:382:THR:HG22	1:8:383:LEU:H	1.63	0.63
1:E:484:PRO:CD	1:E:609:TRP:HE3	2.11	0.63
1:G:322:GLN:HE21	1:1:340:THR:CB	166.16	0.63
1:J:473:MET:HE1	1:K:275:TYR:HB3	56.98	0.63
1:M:382:THR:HG22	1:M:383:LEU:H	1.63	0.63
1:L:402:PRO:HG3	1:N:232:ASP:HB3	131.62	0.63
1:U:492:SER:O	1:U:498:ASN:ND2	2.31	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Y:484:PRO:CD	1:Y:609:TRP:HE3	2.11	0.63
1:G:322:GLN:NE2	1:1:340:THR:HB	165.86	0.63
1:A:382:THR:HG22	1:A:383:LEU:H	1.63	0.63
1:F:340:THR:HB	1:Z:322:GLN:NE2	112.33	0.63
1:H:484:PRO:CD	1:H:609:TRP:HE3	2.11	0.63
1:J:613:ASP:HB3	1:J:732:ARG:NE	2.13	0.63
1:N:484:PRO:CD	1:N:609:TRP:HE3	2.11	0.63
1:Z:382:THR:HG22	1:Z:383:LEU:H	1.63	0.63
1:1:613:ASP:HB3	1:1:732:ARG:NE	2.13	0.63
1:3:382:THR:HG22	1:3:383:LEU:H	1.63	0.63
1:3:613:ASP:HB2	1:3:731:THR:CG2	2.18	0.63
1:4:484:PRO:CD	1:4:609:TRP:HE3	2.11	0.63
1:4:609:TRP:CH2	1:4:631:PHE:CZ	2.80	0.63
1:A:275:TYR:HB3	1:K:473:MET:HE1	109.33	0.63
1:C:473:MET:HE1	1:O:275:TYR:HB3	168.70	0.63
1:A:275:TYR:HB3	1:I:473:MET:HE1	1.81	0.63
1:O:382:THR:HG22	1:O:383:LEU:H	1.63	0.63
1:4:382:THR:HG22	1:4:383:LEU:H	1.63	0.63
1:5:613:ASP:HB3	1:5:732:ARG:NE	2.13	0.63
1:G:613:ASP:HB3	1:G:732:ARG:NE	2.13	0.63
1:G:473:MET:HE1	1:I:275:TYR:HB3	1.80	0.63
1:I:322:GLN:HE21	1:T:340:THR:CB	174.93	0.63
1:M:326:VAL:HG21	1:M:333:LYS:HZ1	1.64	0.63
1:M:613:ASP:HB3	1:M:732:ARG:NE	2.13	0.63
1:S:492:SER:O	1:S:498:ASN:ND2	2.31	0.63
1:Z:275:TYR:HB3	1:2:473:MET:HE1	94.82	0.63
1:3:613:ASP:HB3	1:3:732:ARG:NE	2.13	0.63
1:A:322:GLN:HE21	1:Z:340:THR:CB	106.99	0.63
1:A:402:PRO:HG3	1:B:232:ASP:HB3	1.80	0.63
1:G:275:TYR:HB3	1:H:473:MET:HE1	56.99	0.63
1:N:382:THR:HG22	1:N:383:LEU:H	1.63	0.63
1:C:275:TYR:HB3	1:P:473:MET:HE1	54.75	0.63
1:X:609:TRP:CH2	1:X:631:PHE:CZ	2.80	0.63
1:D:473:MET:HE1	1:L:275:TYR:HB3	139.13	0.63
1:J:340:THR:HB	1:L:322:GLN:NE2	97.42	0.63
1:J:492:SER:O	1:J:498:ASN:ND2	2.31	0.63
1:T:382:THR:HG22	1:T:383:LEU:H	1.63	0.63
1:1:382:THR:HG22	1:1:383:LEU:H	1.63	0.63
1:F:492:SER:O	1:F:498:ASN:ND2	2.31	0.63
1:K:322:GLN:NE2	1:L:340:THR:HB	2.10	0.63
1:M:492:SER:O	1:M:498:ASN:ND2	2.31	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:S:382:THR:HG22	1:S:383:LEU:H	1.63	0.63
1:D:402:PRO:HG3	1:E:232:ASP:HB3	1.79	0.63
1:X:484:PRO:CD	1:X:609:TRP:HE3	2.11	0.63
1:X:473:MET:HE1	1:Y:275:TYR:HB3	57.22	0.63
1:3:275:TYR:HB3	1:4:473:MET:HE1	1.79	0.62
1:F:402:PRO:HG3	1:Z:232:ASP:HB3	111.74	0.62
1:H:382:THR:HG22	1:H:383:LEU:H	1.63	0.62
1:I:322:GLN:NE2	1:J:340:THR:HB	2.11	0.62
1:C:322:GLN:NE2	1:M:340:THR:HB	97.42	0.62
1:N:492:SER:O	1:N:498:ASN:ND2	2.31	0.62
1:S:613:ASP:HB3	1:S:732:ARG:NE	2.13	0.62
1:X:382:THR:HG22	1:X:383:LEU:H	1.63	0.62
1:Z:492:SER:O	1:Z:498:ASN:ND2	2.31	0.62
1:2:382:THR:HG22	1:2:383:LEU:H	1.63	0.62
1:B:473:MET:HE1	1:J:275:TYR:HB3	1.81	0.62
1:C:340:THR:HB	1:D:322:GLN:NE2	2.10	0.62
1:I:613:ASP:HB3	1:I:732:ARG:NE	2.13	0.62
1:K:402:PRO:HG3	1:7:232:ASP:HB3	1.79	0.62
1:C:275:TYR:HB3	1:M:473:MET:HE1	1.79	0.62
1:R:382:THR:HG22	1:R:383:LEU:H	1.63	0.62
1:H:473:MET:HE1	1:W:275:TYR:HB3	1.79	0.62
1:B:382:THR:HG22	1:B:383:LEU:H	1.63	0.62
1:C:326:VAL:HG21	1:C:333:LYS:HZ1	1.68	0.62
1:F:275:TYR:HB3	1:G:473:MET:HE1	104.51	0.62
1:G:484:PRO:CD	1:G:609:TRP:CE3	2.83	0.62
1:P:340:THR:HB	1:6:322:GLN:NE2	165.86	0.62
1:P:484:PRO:CD	1:P:609:TRP:CE3	2.83	0.62
1:R:326:VAL:HG21	1:R:333:LYS:HZ1	1.69	0.62
1:W:499:ASN:HD22	1:Y:592:GLY:HA2	33.08	0.62
1:3:484:PRO:CD	1:3:609:TRP:CE3	2.83	0.62
1:5:382:THR:HG22	1:5:383:LEU:H	1.63	0.62
1:8:613:ASP:HB2	1:8:731:THR:CG2	2.19	0.62
1:H:484:PRO:CD	1:H:609:TRP:CE3	2.83	0.62
1:I:484:PRO:CD	1:I:609:TRP:CE3	2.83	0.62
1:K:484:PRO:CD	1:K:609:TRP:CE3	2.83	0.62
1:J:402:PRO:HG3	1:L:232:ASP:HB3	73.44	0.62
1:O:484:PRO:CD	1:O:609:TRP:CE3	2.83	0.62
1:Z:326:VAL:HG21	1:Z:333:LYS:HZ1	1.64	0.62
1:5:326:VAL:HG21	1:5:333:LYS:HZ1	1.65	0.62
1:E:473:MET:HE1	1:X:275:TYR:HB3	168.47	0.62
1:I:473:MET:HE1	1:J:275:TYR:HB3	57.24	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:484:PRO:CD	1:J:609:TRP:CE3	2.83	0.62
1:L:382:THR:HG22	1:L:383:LEU:H	1.63	0.62
1:L:484:PRO:CD	1:L:609:TRP:CE3	2.83	0.62
1:P:613:ASP:HB2	1:P:731:THR:CG2	2.19	0.62
1:R:613:ASP:HB2	1:R:731:THR:CG2	2.18	0.62
1:U:484:PRO:CD	1:U:609:TRP:CE3	2.83	0.62
1:Y:484:PRO:CD	1:Y:609:TRP:CE3	2.83	0.62
1:2:613:ASP:HB2	1:2:731:THR:CG2	2.19	0.62
1:B:484:PRO:CD	1:B:609:TRP:CE3	2.83	0.62
1:B:613:ASP:HB2	1:B:731:THR:CG2	2.19	0.62
1:F:484:PRO:CD	1:F:609:TRP:CE3	2.83	0.62
1:F:322:GLN:NE2	1:G:340:THR:HB	2.11	0.62
1:H:613:ASP:HB2	1:H:731:THR:CG2	2.18	0.62
1:J:473:MET:HE1	1:L:275:TYR:HB3	1.80	0.62
1:L:473:MET:HE1	1:T:275:TYR:HB3	217.76	0.62
1:Q:326:VAL:HG21	1:Q:333:LYS:HZ1	1.65	0.62
1:R:484:PRO:CD	1:R:609:TRP:CE3	2.83	0.62
1:T:484:PRO:CD	1:T:609:TRP:CE3	2.83	0.62
1:V:484:PRO:CD	1:V:609:TRP:CE3	2.83	0.62
1:Z:484:PRO:CD	1:Z:609:TRP:CE3	2.83	0.62
1:A:484:PRO:CD	1:A:609:TRP:CE3	2.83	0.62
1:N:484:PRO:CD	1:N:609:TRP:CE3	2.83	0.62
1:7:484:PRO:CD	1:7:609:TRP:CE3	2.83	0.62
1:C:484:PRO:CD	1:C:609:TRP:CE3	2.83	0.62
1:E:484:PRO:CD	1:E:609:TRP:CE3	2.83	0.62
1:K:340:THR:OG1	1:W:322:GLN:NE2	173.04	0.62
1:N:340:THR:HB	1:R:322:GLN:NE2	159.35	0.62
1:Z:473:MET:HE1	1:1:275:TYR:HB3	103.92	0.62
1:1:484:PRO:CD	1:1:609:TRP:CE3	2.83	0.62
1:Z:275:TYR:HB3	1:3:473:MET:HE1	1.81	0.62
1:5:484:PRO:CD	1:5:609:TRP:CE3	2.83	0.62
1:6:484:PRO:CD	1:6:609:TRP:CE3	2.83	0.62
1:J:382:THR:HG22	1:J:383:LEU:H	1.63	0.62
1:L:492:SER:O	1:L:498:ASN:ND2	2.31	0.62
1:M:484:PRO:CD	1:M:609:TRP:CE3	2.83	0.62
1:O:326:VAL:HG21	1:O:333:LYS:HZ1	1.66	0.62
1:Q:484:PRO:CD	1:Q:609:TRP:CE3	2.83	0.62
1:W:484:PRO:CD	1:W:609:TRP:CE3	2.83	0.62
1:T:402:PRO:HG3	1:Y:232:ASP:HB3	138.13	0.62
1:A:340:THR:HB	1:J:322:GLN:NE2	89.43	0.62
1:D:275:TYR:HB3	1:T:473:MET:HE1	128.86	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:484:PRO:CD	1:D:609:TRP:CE3	2.83	0.62
1:H:492:SER:O	1:H:498:ASN:ND2	2.31	0.62
1:M:275:TYR:HB3	1:O:473:MET:HE1	90.79	0.62
1:S:484:PRO:CD	1:S:609:TRP:CE3	2.83	0.62
1:T:473:MET:HE1	1:U:275:TYR:HB3	57.24	0.62
1:Y:322:GLN:NE2	1:4:340:THR:HB	2.11	0.61
1:4:484:PRO:CD	1:4:609:TRP:CE3	2.83	0.61
1:C:492:SER:O	1:C:498:ASN:ND2	2.31	0.61
1:I:275:TYR:HB3	1:K:473:MET:HE1	90.80	0.61
1:R:473:MET:HE1	1:S:275:TYR:HB3	1.81	0.61
1:X:492:SER:O	1:X:498:ASN:ND2	2.31	0.61
1:H:275:TYR:HB3	1:Y:473:MET:HE1	1.81	0.61
1:1:473:MET:HE1	1:2:275:TYR:HB3	1.81	0.61
1:2:492:SER:O	1:2:498:ASN:ND2	2.31	0.61
1:D:492:SER:O	1:D:498:ASN:ND2	2.31	0.61
1:R:492:SER:O	1:R:498:ASN:ND2	2.31	0.61
1:X:484:PRO:CD	1:X:609:TRP:CE3	2.83	0.61
1:2:484:PRO:CD	1:2:609:TRP:CE3	2.83	0.61
1:3:326:VAL:HG21	1:3:333:LYS:HZ1	1.65	0.61
1:H:326:VAL:HG21	1:H:333:LYS:HZ1	1.65	0.61
1:Y:492:SER:O	1:Y:498:ASN:ND2	2.31	0.61
1:6:492:SER:O	1:6:498:ASN:ND2	2.31	0.61
1:E:322:GLN:NE2	1:H:340:THR:HB	120.91	0.61
1:N:473:MET:HE1	1:O:275:TYR:HB3	56.98	0.61
1:P:322:GLN:NE2	1:Q:340:THR:HB	2.11	0.61
1:Q:492:SER:O	1:Q:498:ASN:ND2	2.31	0.61
1:V:340:THR:OG1	1:W:322:GLN:NE2	2.34	0.61
1:5:340:THR:HB	1:8:322:GLN:NE2	2.11	0.61
1:6:578:GLN:OE1	1:6:597:ASN:ND2	2.34	0.61
1:C:342:THR:HG22	1:C:407:ARG:HG3	1.83	0.61
1:D:578:GLN:OE1	1:D:597:ASN:ND2	2.34	0.61
1:F:578:GLN:OE1	1:F:597:ASN:ND2	2.34	0.61
1:I:342:THR:HG22	1:I:407:ARG:HG3	1.83	0.61
1:K:578:GLN:OE1	1:K:597:ASN:ND2	2.34	0.61
1:L:578:GLN:OE1	1:L:597:ASN:ND2	2.34	0.61
1:R:342:THR:HG22	1:R:407:ARG:HG3	1.83	0.61
1:Z:578:GLN:OE1	1:Z:597:ASN:ND2	2.34	0.61
1:3:578:GLN:OE1	1:3:597:ASN:ND2	2.34	0.61
1:8:484:PRO:CD	1:8:609:TRP:CE3	2.83	0.61
1:A:578:GLN:OE1	1:A:597:ASN:ND2	2.34	0.61
1:E:578:GLN:OE1	1:E:597:ASN:ND2	2.34	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:578:GLN:OE1	1:N:597:ASN:ND2	2.34	0.61
1:V:578:GLN:OE1	1:V:597:ASN:ND2	2.34	0.61
1:W:578:GLN:OE1	1:W:597:ASN:ND2	2.34	0.61
1:Y:342:THR:HG22	1:Y:407:ARG:HG3	1.83	0.61
1:Y:578:GLN:OE1	1:Y:597:ASN:ND2	2.34	0.61
1:3:322:GLN:NE2	1:8:340:THR:OG1	2.34	0.60
1:C:404:GLN:HE21	1:C:406:LEU:CD1	2.14	0.60
1:H:342:THR:HG22	1:H:407:ARG:HG3	1.83	0.60
1:H:578:GLN:OE1	1:H:597:ASN:ND2	2.34	0.60
1:J:578:GLN:OE1	1:J:597:ASN:ND2	2.34	0.60
1:M:578:GLN:OE1	1:M:597:ASN:ND2	2.34	0.60
1:O:322:GLN:NE2	1:P:340:THR:OG1	2.34	0.60
1:O:578:GLN:OE1	1:O:597:ASN:ND2	2.34	0.60
1:R:340:THR:OG1	1:V:322:GLN:NE2	2.34	0.60
1:S:342:THR:HG22	1:S:407:ARG:HG3	1.83	0.60
1:U:578:GLN:OE1	1:U:597:ASN:ND2	2.34	0.60
1:1:578:GLN:OE1	1:1:597:ASN:ND2	2.34	0.60
1:3:342:THR:HG22	1:3:407:ARG:HG3	1.83	0.60
1:4:342:THR:HG22	1:4:407:ARG:HG3	1.83	0.60
1:7:578:GLN:OE1	1:7:597:ASN:ND2	2.34	0.60
1:B:404:GLN:HE21	1:B:406:LEU:CD1	2.15	0.60
1:E:404:GLN:HE21	1:E:406:LEU:CD1	2.14	0.60
1:F:404:GLN:HE21	1:F:406:LEU:CD1	2.14	0.60
1:J:404:GLN:HE21	1:J:406:LEU:CD1	2.14	0.60
1:K:492:SER:O	1:K:498:ASN:ND2	2.31	0.60
1:L:404:GLN:HE21	1:L:406:LEU:CD1	2.14	0.60
1:M:404:GLN:HE21	1:M:406:LEU:CD1	2.15	0.60
1:N:342:THR:HG22	1:N:407:ARG:HG3	1.83	0.60
1:O:342:THR:HG22	1:O:407:ARG:HG3	1.83	0.60
1:Q:342:THR:HG22	1:Q:407:ARG:HG3	1.83	0.60
1:R:340:THR:OG1	1:X:322:GLN:NE2	89.53	0.60
1:R:578:GLN:OE1	1:R:597:ASN:ND2	2.34	0.60
1:T:404:GLN:HE21	1:T:406:LEU:CD1	2.15	0.60
1:T:578:GLN:OE1	1:T:597:ASN:ND2	2.34	0.60
1:V:232:ASP:HB3	1:W:402:PRO:HG3	57.94	0.60
1:W:342:THR:HG22	1:W:407:ARG:HG3	1.83	0.60
1:1:404:GLN:HE21	1:1:406:LEU:CD1	2.15	0.60
1:3:404:GLN:HE21	1:3:406:LEU:HD11	1.67	0.60
1:4:578:GLN:OE1	1:4:597:ASN:ND2	2.34	0.60
1:7:404:GLN:HE21	1:7:406:LEU:CD1	2.15	0.60
1:8:578:GLN:OE1	1:8:597:ASN:ND2	2.34	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:326:VAL:HG21	1:J:333:LYS:HZ1	1.65	0.60
1:P:578:GLN:OE1	1:P:597:ASN:ND2	2.34	0.60
1:Q:275:TYR:HB3	1:S:473:MET:HE1	104.42	0.60
1:R:404:GLN:HE21	1:R:406:LEU:CD1	2.15	0.60
1:W:404:GLN:HE21	1:W:406:LEU:HD11	1.67	0.60
1:X:578:GLN:OE1	1:X:597:ASN:ND2	2.34	0.60
1:Y:404:GLN:HE21	1:Y:406:LEU:CD1	2.14	0.60
1:Y:404:GLN:HE21	1:Y:406:LEU:HD11	1.67	0.60
1:7:404:GLN:HE21	1:7:406:LEU:HD11	1.67	0.60
1:8:342:THR:HG22	1:8:407:ARG:HG3	1.83	0.60
1:A:404:GLN:HE21	1:A:406:LEU:HD11	1.67	0.60
1:B:322:GLN:NE2	1:O:340:THR:OG1	123.65	0.60
1:B:340:THR:OG1	1:C:322:GLN:NE2	2.34	0.60
1:E:404:GLN:HE21	1:E:406:LEU:HD11	1.67	0.60
1:J:322:GLN:NE2	1:X:340:THR:OG1	123.65	0.60
1:O:404:GLN:HE21	1:O:406:LEU:HD11	1.67	0.60
1:S:404:GLN:HE21	1:S:406:LEU:CD1	2.14	0.60
1:U:404:GLN:HE21	1:U:406:LEU:CD1	2.15	0.60
1:V:342:THR:HG22	1:V:407:ARG:HG3	1.83	0.60
1:V:404:GLN:HE21	1:V:406:LEU:CD1	2.15	0.60
1:W:587:GLN:NE2	1:X:498:ASN:OD1	75.45	0.60
1:1:342:THR:HG22	1:1:407:ARG:HG3	1.83	0.60
1:2:404:GLN:HE21	1:2:406:LEU:CD1	2.14	0.60
1:C:578:GLN:OE1	1:C:597:ASN:ND2	2.34	0.60
1:I:404:GLN:HE21	1:I:406:LEU:HD11	1.67	0.60
1:B:340:THR:OG1	1:L:322:GLN:NE2	83.82	0.60
1:L:404:GLN:HE21	1:L:406:LEU:HD11	1.67	0.60
1:P:342:THR:HG22	1:P:407:ARG:HG3	1.83	0.60
1:P:404:GLN:HE21	1:P:406:LEU:CD1	2.14	0.60
1:S:578:GLN:OE1	1:S:597:ASN:ND2	2.34	0.60
1:T:342:THR:HG22	1:T:407:ARG:HG3	1.83	0.60
1:U:342:THR:HG22	1:U:407:ARG:HG3	1.83	0.60
1:2:342:THR:HG22	1:2:407:ARG:HG3	1.83	0.60
1:2:578:GLN:OE1	1:2:597:ASN:ND2	2.34	0.60
1:7:613:ASP:HB2	1:7:731:THR:CG2	2.18	0.60
1:D:404:GLN:HE21	1:D:406:LEU:CD1	2.15	0.60
1:D:342:THR:HG22	1:D:407:ARG:HG3	1.83	0.60
1:E:322:GLN:NE2	1:H:340:THR:OG1	121.31	0.60
1:G:404:GLN:HE21	1:G:406:LEU:CD1	2.14	0.60
1:H:404:GLN:HE21	1:H:406:LEU:HD11	1.67	0.60
1:K:322:GLN:NE2	1:L:340:THR:OG1	2.34	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:473:MET:HE1	1:N:275:TYR:HB3	57.21	0.60
1:T:404:GLN:HE21	1:T:406:LEU:HD11	1.67	0.60
1:E:340:THR:OG1	1:U:322:GLN:NE2	158.72	0.60
1:V:404:GLN:HE21	1:V:406:LEU:HD11	1.67	0.60
1:W:404:GLN:HE21	1:W:406:LEU:CD1	2.14	0.60
1:X:322:GLN:NE2	1:Y:340:THR:OG1	2.35	0.60
1:F:322:GLN:NE2	1:X:340:THR:OG1	114.56	0.60
1:Z:404:GLN:HE21	1:Z:406:LEU:CD1	2.14	0.60
1:Z:473:MET:HE1	1:4:275:TYR:HB3	1.84	0.60
1:5:340:THR:OG1	1:8:322:GLN:NE2	2.34	0.60
1:5:342:THR:HG22	1:5:407:ARG:HG3	1.83	0.60
1:7:492:SER:O	1:7:498:ASN:ND2	2.31	0.60
1:C:340:THR:OG1	1:D:322:GLN:NE2	2.34	0.60
1:E:342:THR:HG22	1:E:407:ARG:HG3	1.83	0.60
1:G:404:GLN:HE21	1:G:406:LEU:HD11	1.67	0.60
1:G:342:THR:HG22	1:G:407:ARG:HG3	1.83	0.60
1:G:578:GLN:OE1	1:G:597:ASN:ND2	2.34	0.60
1:I:578:GLN:OE1	1:I:597:ASN:ND2	2.34	0.60
1:K:404:GLN:HE21	1:K:406:LEU:CD1	2.15	0.60
1:L:342:THR:HG22	1:L:407:ARG:HG3	1.83	0.60
1:O:404:GLN:HE21	1:O:406:LEU:CD1	2.15	0.60
1:Q:578:GLN:OE1	1:Q:597:ASN:ND2	2.34	0.60
1:R:404:GLN:HE21	1:R:406:LEU:HD11	1.67	0.60
1:X:326:VAL:HG21	1:X:333:LYS:HZ1	1.66	0.60
1:Z:404:GLN:HE21	1:Z:406:LEU:HD11	1.67	0.60
1:A:404:GLN:HE21	1:A:406:LEU:CD1	2.14	0.60
1:A:342:THR:HG22	1:A:407:ARG:HG3	1.83	0.60
1:C:404:GLN:HE21	1:C:406:LEU:HD11	1.67	0.60
1:F:340:THR:OG1	1:R:322:GLN:NE2	2.35	0.60
1:G:340:THR:OG1	1:K:322:GLN:NE2	160.74	0.60
1:H:322:GLN:NE2	1:I:340:THR:OG1	2.35	0.60
1:I:404:GLN:HE21	1:I:406:LEU:CD1	2.14	0.60
1:K:340:THR:OG1	1:7:322:GLN:NE2	2.35	0.60
1:K:342:THR:HG22	1:K:407:ARG:HG3	1.83	0.60
1:K:404:GLN:HE21	1:K:406:LEU:HD11	1.67	0.60
1:P:322:GLN:NE2	1:Q:340:THR:OG1	2.34	0.60
1:7:342:THR:HG22	1:7:407:ARG:HG3	1.83	0.60
1:A:340:THR:OG1	1:J:322:GLN:NE2	90.77	0.60
1:B:578:GLN:OE1	1:B:597:ASN:ND2	2.34	0.60
1:D:340:THR:OG1	1:E:322:GLN:NE2	2.35	0.60
1:H:404:GLN:HE21	1:H:406:LEU:CD1	2.15	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:407:ARG:HD3	1:W:224:SER:O	159.32	0.60
1:M:404:GLN:HE21	1:M:406:LEU:HD11	1.67	0.60
1:T:322:GLN:NE2	1:6:340:THR:OG1	173.19	0.60
1:X:342:THR:HG22	1:X:407:ARG:HG3	1.83	0.60
1:W:275:TYR:HB3	1:Y:473:MET:HE1	50.65	0.60
1:2:404:GLN:HE21	1:2:406:LEU:HD11	1.67	0.60
1:4:613:ASP:HB2	1:4:731:THR:CG2	2.18	0.60
1:5:404:GLN:HE21	1:5:406:LEU:CD1	2.15	0.60
1:8:404:GLN:HE21	1:8:406:LEU:CD1	2.15	0.60
1:A:322:GLN:NE2	1:E:340:THR:OG1	2.35	0.60
1:A:340:THR:OG1	1:B:322:GLN:NE2	2.35	0.60
1:B:342:THR:HG22	1:B:407:ARG:HG3	1.83	0.60
1:C:322:GLN:NE2	1:M:340:THR:OG1	97.88	0.60
1:I:322:GLN:NE2	1:J:340:THR:OG1	2.35	0.60
1:L:340:THR:OG1	1:N:322:GLN:NE2	121.32	0.60
1:P:340:THR:OG1	1:6:322:GLN:NE2	167.78	0.60
1:Q:404:GLN:HE21	1:Q:406:LEU:CD1	2.15	0.60
1:S:404:GLN:HE21	1:S:406:LEU:HD11	1.67	0.60
1:V:374:MET:HB2	1:W:669:LEU:HD11	49.55	0.60
1:A:322:GLN:NE2	1:Z:340:THR:OG1	108.54	0.60
1:3:404:GLN:HE21	1:3:406:LEU:CD1	2.14	0.59
1:4:404:GLN:HE21	1:4:406:LEU:CD1	2.15	0.59
1:5:492:SER:O	1:5:498:ASN:ND2	2.31	0.59
1:D:404:GLN:HE21	1:D:406:LEU:HD11	1.67	0.59
1:F:322:GLN:NE2	1:G:340:THR:OG1	2.35	0.59
1:J:342:THR:HG22	1:J:407:ARG:HG3	1.83	0.59
1:M:322:GLN:NE2	1:N:340:THR:OG1	2.35	0.59
1:M:342:THR:HG22	1:M:407:ARG:HG3	1.83	0.59
1:M:340:THR:OG1	1:N:322:GLN:NE2	23.51	0.59
1:G:322:GLN:NE2	1:W:340:THR:OG1	2.35	0.59
1:X:404:GLN:HE21	1:X:406:LEU:CD1	2.15	0.59
1:W:589:THR:HA	1:X:499:ASN:HA	81.71	0.59
1:4:404:GLN:HE21	1:4:406:LEU:HD11	1.67	0.59
1:U:340:THR:OG1	1:5:322:GLN:NE2	178.50	0.59
1:C:340:THR:OG1	1:S:322:GLN:NE2	110.68	0.59
1:G:696:ARG:HD3	1:G:700:GLU:OE2	2.03	0.59
1:I:696:ARG:HD3	1:I:700:GLU:OE2	2.03	0.59
1:N:404:GLN:HE21	1:N:406:LEU:CD1	2.14	0.59
1:Q:322:GLN:NE2	1:S:340:THR:OG1	2.35	0.59
1:X:404:GLN:HE21	1:X:406:LEU:HD11	1.67	0.59
1:U:322:GLN:NE2	1:2:340:THR:OG1	169.63	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Z:340:THR:OG1	1:4:322:GLN:NE2	97.88	0.59
1:5:578:GLN:OE1	1:5:597:ASN:ND2	2.34	0.59
1:B:404:GLN:HE21	1:B:406:LEU:HD11	1.67	0.59
1:D:340:THR:OG1	1:S:322:GLN:NE2	104.26	0.59
1:I:322:GLN:NE2	1:T:340:THR:OG1	177.05	0.59
1:N:404:GLN:HE21	1:N:406:LEU:HD11	1.67	0.59
1:N:613:ASP:HB2	1:N:731:THR:CG2	2.18	0.59
1:S:696:ARG:HD3	1:S:700:GLU:OE2	2.03	0.59
1:U:340:THR:HB	1:5:322:GLN:NE2	177.10	0.59
1:U:696:ARG:HD3	1:U:700:GLU:OE2	2.03	0.59
1:F:340:THR:OG1	1:Z:322:GLN:NE2	112.69	0.59
1:1:404:GLN:HE21	1:1:406:LEU:HD11	1.67	0.59
1:O:322:GLN:NE2	1:7:340:THR:OG1	165.44	0.59
1:8:696:ARG:HD3	1:8:700:GLU:OE2	2.03	0.59
1:F:342:THR:HG22	1:F:407:ARG:HG3	1.83	0.59
1:J:340:THR:OG1	1:L:322:GLN:NE2	97.88	0.59
1:N:326:VAL:HG21	1:N:333:LYS:HZ1	1.69	0.59
1:N:340:THR:OG1	1:R:322:GLN:NE2	160.74	0.59
1:M:669:LEU:HD11	1:N:374:MET:HB2	49.54	0.59
1:N:696:ARG:HD3	1:N:700:GLU:OE2	2.03	0.59
1:P:696:ARG:HD3	1:P:700:GLU:OE2	2.03	0.59
1:Q:404:GLN:HE21	1:Q:406:LEU:HD11	1.67	0.59
1:Y:696:ARG:HD3	1:Y:700:GLU:OE2	2.03	0.59
1:Y:322:GLN:NE2	1:4:340:THR:OG1	2.35	0.59
1:4:492:SER:O	1:4:498:ASN:ND2	2.31	0.59
1:7:696:ARG:HD3	1:7:700:GLU:OE2	2.03	0.59
1:A:696:ARG:HD3	1:A:700:GLU:OE2	2.03	0.59
1:B:696:ARG:HD3	1:B:700:GLU:OE2	2.03	0.59
1:C:499:ASN:OD1	1:C:500:ASN:N	2.36	0.59
1:D:696:ARG:HD3	1:D:700:GLU:OE2	2.03	0.59
1:E:696:ARG:HD3	1:E:700:GLU:OE2	2.03	0.59
1:G:322:GLN:NE2	1:1:340:THR:OG1	167.78	0.59
1:I:499:ASN:OD1	1:I:500:ASN:N	2.36	0.59
1:O:696:ARG:HD3	1:O:700:GLU:OE2	2.03	0.59
1:T:322:GLN:HE21	1:U:340:THR:CB	2.08	0.59
1:V:499:ASN:OD1	1:V:500:ASN:N	2.36	0.59
1:V:696:ARG:HD3	1:V:700:GLU:OE2	2.03	0.59
1:Y:499:ASN:OD1	1:Y:500:ASN:N	2.36	0.59
1:2:696:ARG:HD3	1:2:700:GLU:OE2	2.03	0.59
1:3:696:ARG:HD3	1:3:700:GLU:OE2	2.03	0.59
1:6:342:THR:HG22	1:6:407:ARG:HG3	1.83	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:6:613:ASP:HB2	1:6:731:THR:CG2	2.18	0.59
1:F:696:ARG:HD3	1:F:700:GLU:OE2	2.03	0.59
1:J:696:ARG:HD3	1:J:700:GLU:OE2	2.03	0.59
1:L:326:VAL:HG21	1:L:333:LYS:HZ1	1.68	0.59
1:T:499:ASN:OD1	1:T:500:ASN:N	2.36	0.59
1:T:696:ARG:HD3	1:T:700:GLU:OE2	2.03	0.59
1:W:499:ASN:OD1	1:W:500:ASN:N	2.36	0.59
1:A:374:MET:HB2	1:Z:669:LEU:HD11	117.17	0.59
1:1:696:ARG:HD3	1:1:700:GLU:OE2	2.03	0.59
1:4:696:ARG:HD3	1:4:700:GLU:OE2	2.03	0.59
1:6:404:GLN:HE21	1:6:406:LEU:CD1	2.14	0.59
1:E:499:ASN:OD1	1:E:500:ASN:N	2.36	0.59
1:F:404:GLN:HE21	1:F:406:LEU:HD11	1.67	0.59
1:F:499:ASN:OD1	1:F:500:ASN:N	2.36	0.59
1:H:499:ASN:OD1	1:H:500:ASN:N	2.36	0.59
1:J:499:ASN:OD1	1:J:500:ASN:N	2.36	0.59
1:K:499:ASN:OD1	1:K:500:ASN:N	2.36	0.59
1:K:696:ARG:HD3	1:K:700:GLU:OE2	2.03	0.59
1:R:499:ASN:OD1	1:R:500:ASN:N	2.36	0.59
1:Q:322:GLN:NE2	1:S:340:THR:HB	2.11	0.59
1:E:669:LEU:HD11	1:U:374:MET:HB2	161.16	0.59
1:Z:342:THR:HG22	1:Z:407:ARG:HG3	1.83	0.59
1:2:322:GLN:NE2	1:3:340:THR:OG1	2.35	0.59
1:3:499:ASN:OD1	1:3:500:ASN:N	2.36	0.59
1:D:499:ASN:OD1	1:D:500:ASN:N	2.36	0.59
1:G:499:ASN:OD1	1:G:500:ASN:N	2.36	0.59
1:H:340:THR:OG1	1:Z:322:GLN:NE2	2.35	0.59
1:L:324:LYS:NZ	1:L:337:ASN:OD1	2.35	0.59
1:M:322:GLN:NE2	1:S:340:THR:OG1	109.72	0.59
1:M:499:ASN:OD1	1:M:500:ASN:N	2.36	0.59
1:O:499:ASN:OD1	1:O:500:ASN:N	2.36	0.59
1:P:404:GLN:HE21	1:P:406:LEU:HD11	1.67	0.59
1:P:499:ASN:OD1	1:P:500:ASN:N	2.36	0.59
1:Q:499:ASN:OD1	1:Q:500:ASN:N	2.36	0.59
1:U:404:GLN:HE21	1:U:406:LEU:HD11	1.67	0.59
1:U:499:ASN:OD1	1:U:500:ASN:N	2.36	0.59
1:V:340:THR:OG1	1:1:322:GLN:NE2	166.51	0.59
1:Z:499:ASN:OD1	1:Z:500:ASN:N	2.36	0.59
1:1:499:ASN:OD1	1:1:500:ASN:N	2.36	0.59
1:2:499:ASN:OD1	1:2:500:ASN:N	2.36	0.59
1:5:499:ASN:OD1	1:5:500:ASN:N	2.36	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:7:499:ASN:OD1	1:7:500:ASN:N	2.36	0.59
1:A:374:MET:HB2	1:E:669:LEU:HD11	1.85	0.59
1:B:499:ASN:OD1	1:B:500:ASN:N	2.36	0.59
1:E:374:MET:HB2	1:H:669:LEU:HD11	145.44	0.59
1:H:696:ARG:HD3	1:H:700:GLU:OE2	2.03	0.59
1:L:696:ARG:HD3	1:L:700:GLU:OE2	2.03	0.59
1:D:322:GLN:NE2	1:O:340:THR:OG1	108.49	0.59
1:Q:696:ARG:HD3	1:Q:700:GLU:OE2	2.03	0.59
1:W:696:ARG:HD3	1:W:700:GLU:OE2	2.03	0.59
1:8:404:GLN:HE21	1:8:406:LEU:HD11	1.67	0.59
1:C:696:ARG:HD3	1:C:700:GLU:OE2	2.03	0.59
1:R:696:ARG:HD3	1:R:700:GLU:OE2	2.03	0.59
1:T:322:GLN:NE2	1:U:340:THR:OG1	2.35	0.59
1:V:322:GLN:NE2	1:W:340:THR:OG1	23.51	0.59
1:F:374:MET:HB2	1:X:669:LEU:HD11	139.67	0.58
1:R:669:LEU:HD11	1:V:374:MET:HB2	1.85	0.58
1:5:696:ARG:HD3	1:5:700:GLU:OE2	2.03	0.58
1:6:696:ARG:HD3	1:6:700:GLU:OE2	2.03	0.58
1:A:669:LEU:HD11	1:B:374:MET:HB2	1.85	0.58
1:B:374:MET:HB2	1:O:669:LEU:HD11	155.92	0.58
1:F:374:MET:HB2	1:G:669:LEU:HD11	1.85	0.58
1:J:669:LEU:HD11	1:L:374:MET:HB2	98.54	0.58
1:P:669:LEU:HD11	1:6:374:MET:HB2	181.70	0.58
1:W:341:SER:HB3	1:W:675:GLN:HE22	1.69	0.58
1:X:499:ASN:OD1	1:X:500:ASN:N	2.36	0.58
1:T:374:MET:HB2	1:6:669:LEU:HD11	186.14	0.58
1:O:374:MET:HB2	1:7:669:LEU:HD11	173.63	0.58
1:8:492:SER:O	1:8:498:ASN:ND2	2.31	0.58
1:A:341:SER:HB3	1:A:675:GLN:HE22	1.69	0.58
1:C:669:LEU:HD11	1:D:374:MET:HB2	1.85	0.58
1:E:341:SER:HB3	1:E:675:GLN:HE22	1.69	0.58
1:F:669:LEU:HD11	1:R:374:MET:HB2	1.85	0.58
1:F:669:LEU:HD11	1:Z:374:MET:HB2	140.19	0.58
1:K:374:MET:HB2	1:L:669:LEU:HD11	1.85	0.58
1:C:669:LEU:HD11	1:S:374:MET:HB2	118.43	0.58
1:U:341:SER:HB3	1:U:675:GLN:HE22	1.69	0.58
1:V:341:SER:HB3	1:V:675:GLN:HE22	1.69	0.58
1:R:669:LEU:HD11	1:X:374:MET:HB2	77.84	0.58
1:8:499:ASN:OD1	1:8:500:ASN:N	2.36	0.58
1:H:374:MET:HB2	1:I:669:LEU:HD11	1.85	0.58
1:J:374:MET:HB2	1:X:669:LEU:HD11	155.92	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:341:SER:HB3	1:M:675:GLN:HE22	1.69	0.58
1:N:499:ASN:OD1	1:N:500:ASN:N	2.36	0.58
1:X:696:ARG:HD3	1:X:700:GLU:OE2	2.03	0.58
1:Z:341:SER:HB3	1:Z:675:GLN:HE22	1.69	0.58
1:Z:696:ARG:HD3	1:Z:700:GLU:OE2	2.03	0.58
1:3:341:SER:HB3	1:3:675:GLN:HE22	1.69	0.58
1:4:613:ASP:OD1	1:4:732:ARG:CD	2.52	0.58
1:G:341:SER:HB3	1:G:675:GLN:HE22	1.69	0.58
1:L:341:SER:HB3	1:L:675:GLN:HE22	1.69	0.58
1:N:341:SER:HB3	1:N:675:GLN:HE22	1.69	0.58
1:N:613:ASP:OD1	1:N:732:ARG:CD	2.52	0.58
1:P:341:SER:HB3	1:P:675:GLN:HE22	1.69	0.58
1:R:341:SER:HB3	1:R:675:GLN:HE22	1.69	0.58
1:Y:341:SER:HB3	1:Y:675:GLN:HE22	1.69	0.58
1:4:499:ASN:OD1	1:4:500:ASN:N	2.36	0.58
1:5:404:GLN:HE21	1:5:406:LEU:HD11	1.67	0.58
1:5:613:ASP:OD1	1:5:732:ARG:CD	2.52	0.58
1:K:669:LEU:HD11	1:7:374:MET:HB2	1.85	0.58
1:A:499:ASN:OD1	1:A:500:ASN:N	2.36	0.58
1:C:232:ASP:N	1:C:232:ASP:OD1	2.37	0.58
1:H:232:ASP:OD1	1:H:232:ASP:N	2.37	0.58
1:J:613:ASP:OD1	1:J:732:ARG:CD	2.52	0.58
1:L:232:ASP:N	1:L:232:ASP:OD1	2.37	0.58
1:M:696:ARG:HD3	1:M:700:GLU:OE2	2.03	0.58
1:M:613:ASP:OD1	1:M:732:ARG:CD	2.52	0.58
1:L:669:LEU:HD11	1:N:374:MET:HB2	145.45	0.58
1:O:341:SER:HB3	1:O:675:GLN:HE22	1.69	0.58
1:P:613:ASP:OD1	1:P:732:ARG:CD	2.52	0.58
1:S:499:ASN:OD1	1:S:500:ASN:N	2.36	0.58
1:T:340:THR:OG1	1:Y:322:GLN:NE2	120.95	0.58
1:V:232:ASP:N	1:V:232:ASP:OD1	2.37	0.58
1:X:374:MET:HB2	1:Y:669:LEU:HD11	1.85	0.58
1:6:499:ASN:OD1	1:6:500:ASN:N	2.36	0.58
1:8:613:ASP:OD1	1:8:732:ARG:CD	2.52	0.58
1:B:492:SER:O	1:B:498:ASN:ND2	2.31	0.58
1:K:232:ASP:N	1:K:232:ASP:OD1	2.37	0.58
1:Q:613:ASP:OD1	1:Q:732:ARG:CD	2.52	0.58
1:S:341:SER:HB3	1:S:675:GLN:HE22	1.69	0.58
1:Y:232:ASP:N	1:Y:232:ASP:OD1	2.37	0.58
1:Q:374:MET:HB2	1:Y:669:LEU:HD11	162.21	0.58
1:C:613:ASP:OD1	1:C:732:ARG:CD	2.52	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:613:ASP:OD1	1:G:732:ARG:CD	2.52	0.58
1:I:232:ASP:N	1:I:232:ASP:OD1	2.37	0.58
1:I:492:SER:O	1:I:498:ASN:ND2	2.31	0.58
1:I:613:ASP:OD1	1:I:732:ARG:CD	2.52	0.58
1:L:613:ASP:OD1	1:L:732:ARG:CD	2.52	0.58
1:T:340:THR:CB	1:Y:322:GLN:HE21	119.05	0.58
1:D:669:LEU:HD11	1:E:374:MET:HB2	1.85	0.58
1:J:404:GLN:HE21	1:J:406:LEU:HD11	1.67	0.58
1:L:499:ASN:OD1	1:L:500:ASN:N	2.36	0.58
1:R:232:ASP:N	1:R:232:ASP:OD1	2.37	0.58
1:Q:374:MET:HB2	1:S:669:LEU:HD11	1.85	0.58
1:W:613:ASP:OD1	1:W:732:ARG:CD	2.52	0.58
1:Z:669:LEU:HD11	1:4:374:MET:HB2	98.54	0.58
1:Z:613:ASP:OD1	1:Z:732:ARG:CD	2.52	0.58
1:4:341:SER:HB3	1:4:675:GLN:HE22	1.69	0.58
1:7:341:SER:HB3	1:7:675:GLN:HE22	1.69	0.58
1:C:341:SER:HB3	1:C:675:GLN:HE22	1.69	0.58
1:G:669:LEU:HD11	1:K:374:MET:HB2	172.83	0.58
1:K:498:ASN:OD1	1:8:587:GLN:NE2	2.37	0.58
1:D:498:ASN:OD1	1:P:587:GLN:NE2	2.37	0.58
1:U:669:LEU:HD11	1:5:374:MET:HB2	203.53	0.58
1:6:341:SER:HB3	1:6:675:GLN:HE22	1.69	0.57
1:F:232:ASP:N	1:F:232:ASP:OD1	2.37	0.57
1:G:374:MET:HB2	1:W:669:LEU:HD11	1.86	0.57
1:K:613:ASP:OD1	1:K:732:ARG:CD	2.52	0.57
1:O:613:ASP:OD1	1:O:732:ARG:CD	2.52	0.57
1:W:609:TRP:NE1	1:X:629:GLY:CA	68.75	0.57
1:Q:224:SER:O	1:Y:407:ARG:HD3	146.87	0.57
1:2:341:SER:HB3	1:2:675:GLN:HE22	1.69	0.57
1:A:613:ASP:OD1	1:A:732:ARG:CD	2.52	0.57
1:D:341:SER:HB3	1:D:675:GLN:HE22	1.69	0.57
1:H:613:ASP:OD1	1:H:732:ARG:CD	2.52	0.57
1:N:232:ASP:OD1	1:N:232:ASP:N	2.37	0.57
1:Q:617:GLN:N	1:Q:617:GLN:OE1	2.38	0.57
1:T:232:ASP:N	1:T:232:ASP:OD1	2.37	0.57
1:K:669:LEU:HD11	1:W:374:MET:HB2	188.91	0.57
1:W:617:GLN:OE1	1:W:617:GLN:N	2.38	0.57
1:4:232:ASP:OD1	1:4:232:ASP:N	2.37	0.57
1:8:341:SER:HB3	1:8:675:GLN:HE22	1.69	0.57
1:A:617:GLN:OE1	1:A:617:GLN:N	2.38	0.57
1:F:341:SER:HB3	1:F:675:GLN:HE22	1.69	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:613:ASP:OD1	1:F:732:ARG:CD	2.52	0.57
1:H:669:LEU:HD11	1:Z:374:MET:HB2	1.85	0.57
1:I:341:SER:HB3	1:I:675:GLN:HE22	1.69	0.57
1:K:341:SER:HB3	1:K:675:GLN:HE22	1.69	0.57
1:O:617:GLN:OE1	1:O:617:GLN:N	2.38	0.57
1:P:374:MET:HB2	1:Q:669:LEU:HD11	1.85	0.57
1:P:617:GLN:N	1:P:617:GLN:OE1	2.38	0.57
1:S:232:ASP:N	1:S:232:ASP:OD1	2.37	0.57
1:U:613:ASP:OD1	1:U:732:ARG:CD	2.52	0.57
1:V:613:ASP:OD1	1:V:732:ARG:CD	2.52	0.57
1:1:341:SER:HB3	1:1:675:GLN:HE22	1.69	0.57
1:3:232:ASP:N	1:3:232:ASP:OD1	2.37	0.57
1:5:617:GLN:OE1	1:5:617:GLN:N	2.38	0.57
1:6:617:GLN:N	1:6:617:GLN:OE1	2.38	0.57
1:B:613:ASP:OD1	1:B:732:ARG:CD	2.52	0.57
1:F:617:GLN:N	1:F:617:GLN:OE1	2.38	0.57
1:G:617:GLN:N	1:G:617:GLN:OE1	2.38	0.57
1:A:669:LEU:HD11	1:J:374:MET:HB2	76.83	0.57
1:U:232:ASP:OD1	1:U:232:ASP:N	2.37	0.57
1:W:232:ASP:OD1	1:W:232:ASP:N	2.37	0.57
1:X:587:GLN:NE2	1:Y:498:ASN:OD1	109.07	0.57
1:2:374:MET:HB2	1:3:669:LEU:HD11	1.86	0.57
1:2:613:ASP:OD1	1:2:732:ARG:CD	2.52	0.57
1:4:617:GLN:OE1	1:4:617:GLN:N	2.38	0.57
1:8:557:TYR:HE1	1:8:562:LEU:HD11	1.70	0.57
1:B:341:SER:HB3	1:B:675:GLN:HE22	1.69	0.57
1:D:613:ASP:OD1	1:D:732:ARG:CD	2.52	0.57
1:K:652:LYS:HG2	1:K:653:ASN:O	2.05	0.57
1:M:374:MET:HB2	1:N:669:LEU:HD11	1.85	0.57
1:M:374:MET:HB2	1:S:669:LEU:HD11	126.53	0.57
1:M:617:GLN:N	1:M:617:GLN:OE1	2.38	0.57
1:O:232:ASP:N	1:O:232:ASP:OD1	2.37	0.57
1:Q:341:SER:HB3	1:Q:675:GLN:HE22	1.69	0.57
1:D:669:LEU:HD11	1:S:374:MET:HB2	105.45	0.57
1:V:669:LEU:HD11	1:W:374:MET:HB2	1.86	0.57
1:Z:617:GLN:OE1	1:Z:617:GLN:N	2.38	0.57
1:3:617:GLN:N	1:3:617:GLN:OE1	2.38	0.57
1:5:341:SER:HB3	1:5:675:GLN:HE22	1.69	0.57
1:G:374:MET:HB2	1:1:669:LEU:HD11	181.70	0.57
1:G:557:TYR:HE1	1:G:562:LEU:HD11	1.70	0.57
1:J:341:SER:HB3	1:J:675:GLN:HE22	1.69	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:557:TYR:HE1	1:N:562:LEU:HD11	1.70	0.57
1:N:617:GLN:N	1:N:617:GLN:OE1	2.38	0.57
1:P:557:TYR:HE1	1:P:562:LEU:HD11	1.70	0.57
1:R:557:TYR:HE1	1:R:562:LEU:HD11	1.70	0.57
1:R:652:LYS:HG2	1:R:653:ASN:O	2.05	0.57
1:T:341:SER:HB3	1:T:675:GLN:HE22	1.69	0.57
1:T:557:TYR:HE1	1:T:562:LEU:HD11	1.70	0.57
1:T:652:LYS:HG2	1:T:653:ASN:O	2.05	0.57
1:W:557:TYR:HE1	1:W:562:LEU:HD11	1.70	0.57
1:2:652:LYS:HG2	1:2:653:ASN:O	2.05	0.57
1:3:557:TYR:HE1	1:3:562:LEU:HD11	1.70	0.57
1:4:557:TYR:HE1	1:4:562:LEU:HD11	1.70	0.57
1:6:613:ASP:OD1	1:6:732:ARG:CD	2.52	0.57
1:8:382:THR:HG21	1:8:394:SER:H	1.70	0.57
1:A:652:LYS:HG2	1:A:653:ASN:O	2.05	0.57
1:D:652:LYS:HG2	1:D:653:ASN:O	2.05	0.57
1:H:652:LYS:HG2	1:H:653:ASN:O	2.05	0.57
1:J:382:THR:HG21	1:J:394:SER:H	1.70	0.57
1:L:652:LYS:HG2	1:L:653:ASN:O	2.05	0.57
1:N:652:LYS:HG2	1:N:653:ASN:O	2.05	0.57
1:O:557:TYR:HE1	1:O:562:LEU:HD11	1.70	0.57
1:P:382:THR:HG21	1:P:394:SER:H	1.70	0.57
1:S:241:ILE:HG12	1:S:686:GLU:HG3	1.87	0.57
1:I:374:MET:HB2	1:T:669:LEU:HD11	196.77	0.57
1:U:241:ILE:HG12	1:U:686:GLU:HG3	1.87	0.57
1:U:374:MET:HB2	1:2:669:LEU:HD11	189.89	0.57
1:U:652:LYS:HG2	1:U:653:ASN:O	2.05	0.57
1:1:617:GLN:N	1:1:617:GLN:OE1	2.38	0.57
1:2:382:THR:HG21	1:2:394:SER:H	1.70	0.57
1:A:557:TYR:HE1	1:A:562:LEU:HD11	1.70	0.57
1:C:260:GLN:NE2	1:C:276:PHE:HE1	2.03	0.57
1:C:617:GLN:OE1	1:C:617:GLN:N	2.38	0.57
1:C:241:ILE:HG12	1:C:686:GLU:HG3	1.87	0.57
1:D:382:THR:HG21	1:D:394:SER:H	1.70	0.57
1:F:382:THR:HG21	1:F:394:SER:H	1.70	0.57
1:G:232:ASP:OD1	1:G:232:ASP:N	2.37	0.57
1:H:617:GLN:N	1:H:617:GLN:OE1	2.38	0.57
1:H:241:ILE:HG12	1:H:686:GLU:HG3	1.87	0.57
1:I:260:GLN:NE2	1:I:276:PHE:HE1	2.03	0.57
1:I:374:MET:HB2	1:J:669:LEU:HD11	1.85	0.57
1:L:617:GLN:N	1:L:617:GLN:OE1	2.38	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:374:MET:HB2	1:M:669:LEU:HD11	98.54	0.57
1:O:382:THR:HG21	1:O:394:SER:H	1.70	0.57
1:D:374:MET:HB2	1:O:669:LEU:HD11	120.61	0.57
1:Q:557:TYR:HE1	1:Q:562:LEU:HD11	1.70	0.57
1:Q:652:LYS:HG2	1:Q:653:ASN:O	2.05	0.57
1:Q:241:ILE:HG12	1:Q:686:GLU:HG3	1.87	0.57
1:S:382:THR:HG21	1:S:394:SER:H	1.70	0.57
1:S:617:GLN:OE1	1:S:617:GLN:N	2.38	0.57
1:S:652:LYS:HG2	1:S:653:ASN:O	2.05	0.57
1:T:617:GLN:OE1	1:T:617:GLN:N	2.38	0.57
1:T:613:ASP:OD1	1:T:732:ARG:CD	2.52	0.57
1:V:617:GLN:N	1:V:617:GLN:OE1	2.38	0.57
1:W:241:ILE:HG12	1:W:686:GLU:HG3	1.87	0.57
1:W:652:LYS:HG2	1:W:653:ASN:O	2.05	0.57
1:Y:617:GLN:OE1	1:Y:617:GLN:N	2.38	0.57
1:Y:652:LYS:HG2	1:Y:653:ASN:O	2.05	0.57
1:Z:652:LYS:HG2	1:Z:653:ASN:O	2.05	0.57
1:1:613:ASP:OD1	1:1:732:ARG:CD	2.52	0.57
1:3:382:THR:HG21	1:3:394:SER:H	1.70	0.57
1:4:241:ILE:HG12	1:4:686:GLU:HG3	1.87	0.57
1:5:260:GLN:NE2	1:5:276:PHE:HE1	2.03	0.57
1:5:669:LEU:HD11	1:8:374:MET:HB2	1.85	0.57
1:B:652:LYS:HG2	1:B:653:ASN:O	2.05	0.57
1:B:669:LEU:HD11	1:C:374:MET:HB2	1.85	0.57
1:E:617:GLN:OE1	1:E:617:GLN:N	2.38	0.57
1:F:260:GLN:NE2	1:F:276:PHE:HE1	2.03	0.57
1:H:290:PHE:CE2	1:H:614:VAL:HB	2.40	0.57
1:J:260:GLN:NE2	1:J:276:PHE:HE1	2.03	0.57
1:J:557:TYR:HE1	1:J:562:LEU:HD11	1.70	0.57
1:K:290:PHE:CE2	1:K:614:VAL:HB	2.40	0.57
1:K:382:THR:HG21	1:K:394:SER:H	1.70	0.57
1:L:241:ILE:HG12	1:L:686:GLU:HG3	1.87	0.57
1:L:260:GLN:NE2	1:L:276:PHE:HE1	2.03	0.57
1:M:241:ILE:HG12	1:M:686:GLU:HG3	1.87	0.57
1:M:404:GLN:HG2	1:M:406:LEU:CD1	2.35	0.57
1:M:557:TYR:HE1	1:M:562:LEU:HD11	1.70	0.57
1:N:241:ILE:HG12	1:N:686:GLU:HG3	1.87	0.57
1:O:241:ILE:HG12	1:O:686:GLU:HG3	1.87	0.57
1:P:232:ASP:N	1:P:232:ASP:OD1	2.37	0.57
1:P:652:LYS:HG2	1:P:653:ASN:O	2.05	0.57
1:Q:260:GLN:NE2	1:Q:276:PHE:HE1	2.03	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Q:290:PHE:CE2	1:Q:614:VAL:HB	2.40	0.57
1:U:382:THR:HG21	1:U:394:SER:H	1.70	0.57
1:U:290:PHE:CE2	1:U:614:VAL:HB	2.40	0.57
1:U:617:GLN:N	1:U:617:GLN:OE1	2.38	0.57
1:V:260:GLN:NE2	1:V:276:PHE:HE1	2.03	0.57
1:V:652:LYS:HG2	1:V:653:ASN:O	2.05	0.57
1:X:232:ASP:OD1	1:X:232:ASP:N	2.37	0.57
1:X:382:THR:HG21	1:X:394:SER:H	1.70	0.57
1:X:613:ASP:OD1	1:X:732:ARG:CD	2.52	0.57
1:Z:241:ILE:HG12	1:Z:686:GLU:HG3	1.87	0.57
1:Z:404:GLN:HG2	1:Z:406:LEU:CD1	2.35	0.57
1:1:557:TYR:HE1	1:1:562:LEU:HD11	1.70	0.57
1:4:260:GLN:NE2	1:4:276:PHE:HE1	2.03	0.57
1:5:556:ASP:OD1	1:5:557:TYR:N	2.38	0.57
1:5:290:PHE:CE2	1:5:614:VAL:HB	2.40	0.57
1:7:617:GLN:N	1:7:617:GLN:OE1	2.38	0.57
1:B:669:LEU:HD11	1:L:374:MET:HB2	73.70	0.57
1:E:290:PHE:CE2	1:E:614:VAL:HB	2.40	0.57
1:F:557:TYR:HE1	1:F:562:LEU:HD11	1.70	0.57
1:G:241:ILE:HG12	1:G:686:GLU:HG3	1.87	0.57
1:G:260:GLN:NE2	1:G:276:PHE:HE1	2.03	0.57
1:G:652:LYS:HG2	1:G:653:ASN:O	2.05	0.57
1:H:341:SER:HB3	1:H:675:GLN:HE22	1.69	0.57
1:I:241:ILE:HG12	1:I:686:GLU:HG3	1.87	0.57
1:K:623:LYS:HB2	1:K:645:PRO:HG3	1.87	0.57
1:N:260:GLN:NE2	1:N:276:PHE:HE1	2.03	0.57
1:Q:556:ASP:OD1	1:Q:557:TYR:N	2.38	0.57
1:R:382:THR:HG21	1:R:394:SER:H	1.70	0.57
1:R:613:ASP:OD1	1:R:732:ARG:CD	2.52	0.57
1:T:382:THR:HG21	1:T:394:SER:H	1.70	0.57
1:U:260:GLN:NE2	1:U:276:PHE:HE1	2.03	0.57
1:V:290:PHE:CE2	1:V:614:VAL:HB	2.40	0.57
1:V:404:GLN:HG2	1:V:406:LEU:CD1	2.35	0.57
1:E:498:ASN:OD1	1:V:587:GLN:NE2	181.87	0.57
1:V:241:ILE:HG12	1:V:686:GLU:HG3	1.87	0.57
1:X:341:SER:HB3	1:X:675:GLN:HE22	1.69	0.57
1:Y:260:GLN:NE2	1:Y:276:PHE:HE1	2.03	0.57
1:Y:382:THR:HG21	1:Y:394:SER:H	1.70	0.57
1:Z:557:TYR:HE1	1:Z:562:LEU:HD11	1.70	0.57
1:2:557:TYR:HE1	1:2:562:LEU:HD11	1.70	0.56
1:4:652:LYS:HG2	1:4:653:ASN:O	2.05	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:5:404:GLN:HG2	1:5:406:LEU:CD1	2.35	0.56
1:5:241:ILE:HG12	1:5:686:GLU:HG3	1.87	0.56
1:7:232:ASP:OD1	1:7:232:ASP:N	2.37	0.56
1:7:652:LYS:HG2	1:7:653:ASN:O	2.05	0.56
1:B:241:ILE:HG12	1:B:686:GLU:HG3	1.87	0.56
1:C:290:PHE:CE2	1:C:614:VAL:HB	2.40	0.56
1:D:404:GLN:HG2	1:D:406:LEU:CD1	2.35	0.56
1:D:623:LYS:HB2	1:D:645:PRO:HG3	1.87	0.56
1:E:623:LYS:HB2	1:E:645:PRO:HG3	1.87	0.56
1:E:652:LYS:HG2	1:E:653:ASN:O	2.05	0.56
1:G:290:PHE:CE2	1:G:614:VAL:HB	2.40	0.56
1:H:382:THR:HG21	1:H:394:SER:H	1.70	0.56
1:I:290:PHE:CE2	1:I:614:VAL:HB	2.40	0.56
1:I:617:GLN:N	1:I:617:GLN:OE1	2.38	0.56
1:I:652:LYS:HG2	1:I:653:ASN:O	2.05	0.56
1:J:232:ASP:OD1	1:J:232:ASP:N	2.37	0.56
1:J:404:GLN:HG2	1:J:406:LEU:CD1	2.35	0.56
1:J:290:PHE:CE2	1:J:614:VAL:HB	2.40	0.56
1:J:617:GLN:OE1	1:J:617:GLN:N	2.38	0.56
1:K:557:TYR:HE1	1:K:562:LEU:HD11	1.70	0.56
1:M:260:GLN:NE2	1:M:276:PHE:HE1	2.03	0.56
1:M:382:THR:HG21	1:M:394:SER:H	1.70	0.56
1:M:652:LYS:HG2	1:M:653:ASN:O	2.05	0.56
1:N:556:ASP:OD1	1:N:557:TYR:N	2.38	0.56
1:Q:404:GLN:HG2	1:Q:406:LEU:CD1	2.35	0.56
1:S:613:ASP:OD1	1:S:732:ARG:CD	2.52	0.56
1:W:382:THR:HG21	1:W:394:SER:H	1.70	0.56
1:Z:260:GLN:NE2	1:Z:276:PHE:HE1	2.03	0.56
1:1:382:THR:HG21	1:1:394:SER:H	1.70	0.56
1:1:623:LYS:HB2	1:1:645:PRO:HG3	1.87	0.56
1:2:324:LYS:NZ	1:2:337:ASN:OD1	2.35	0.56
1:3:652:LYS:HG2	1:3:653:ASN:O	2.05	0.56
1:4:290:PHE:CE2	1:4:614:VAL:HB	2.40	0.56
1:4:556:ASP:OD1	1:4:557:TYR:N	2.38	0.56
1:5:557:TYR:HE1	1:5:562:LEU:HD11	1.70	0.56
1:6:260:GLN:NE2	1:6:276:PHE:HE1	2.03	0.56
1:7:382:THR:HG21	1:7:394:SER:H	1.70	0.56
1:7:404:GLN:HG2	1:7:406:LEU:CD1	2.35	0.56
1:8:617:GLN:OE1	1:8:617:GLN:N	2.38	0.56
1:8:652:LYS:HG2	1:8:653:ASN:O	2.05	0.56
1:A:241:ILE:HG12	1:A:686:GLU:HG3	1.87	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:326:VAL:HG21	1:B:333:LYS:HZ1	1.70	0.56
1:B:623:LYS:HB2	1:B:645:PRO:HG3	1.88	0.56
1:C:404:GLN:HG2	1:C:406:LEU:CD1	2.35	0.56
1:C:652:LYS:HG2	1:C:653:ASN:O	2.05	0.56
1:D:557:TYR:HE1	1:D:562:LEU:HD11	1.70	0.56
1:E:232:ASP:N	1:E:232:ASP:OD1	2.37	0.56
1:E:404:GLN:HG2	1:E:406:LEU:CD1	2.35	0.56
1:F:556:ASP:OD1	1:F:557:TYR:N	2.38	0.56
1:G:324:LYS:NZ	1:G:337:ASN:OD1	2.35	0.56
1:G:404:GLN:HG2	1:G:406:LEU:CD1	2.35	0.56
1:A:587:GLN:NE2	1:G:498:ASN:OD1	2.38	0.56
1:H:623:LYS:HB2	1:H:645:PRO:HG3	1.88	0.56
1:J:652:LYS:HG2	1:J:653:ASN:O	2.05	0.56
1:K:404:GLN:HG2	1:K:406:LEU:CD1	2.35	0.56
1:L:556:ASP:OD1	1:L:557:TYR:N	2.38	0.56
1:P:241:ILE:HG12	1:P:686:GLU:HG3	1.87	0.56
1:R:241:ILE:HG12	1:R:686:GLU:HG3	1.87	0.56
1:R:623:LYS:HB2	1:R:645:PRO:HG3	1.87	0.56
1:S:260:GLN:NE2	1:S:276:PHE:HE1	2.03	0.56
1:S:623:LYS:HB2	1:S:645:PRO:HG3	1.87	0.56
1:T:290:PHE:CE2	1:T:614:VAL:HB	2.40	0.56
1:U:404:GLN:HG2	1:U:406:LEU:CD1	2.35	0.56
1:V:623:LYS:HB2	1:V:645:PRO:HG3	1.87	0.56
1:W:290:PHE:CE2	1:W:614:VAL:HB	2.40	0.56
1:X:557:TYR:HE1	1:X:562:LEU:HD11	1.70	0.56
1:Y:374:MET:HB2	1:4:669:LEU:HD11	1.85	0.56
1:Y:404:GLN:HG2	1:Y:406:LEU:CD1	2.35	0.56
1:Y:623:LYS:HB2	1:Y:645:PRO:HG3	1.87	0.56
1:Q:251:PRO:HB3	1:Y:660:PRO:HG2	169.11	0.56
1:Z:382:THR:HG21	1:Z:394:SER:H	1.70	0.56
1:Z:556:ASP:OD1	1:Z:557:TYR:N	2.38	0.56
1:1:290:PHE:CE2	1:1:614:VAL:HB	2.40	0.56
1:1:587:GLN:NE2	1:2:498:ASN:OD1	2.39	0.56
1:2:404:GLN:HG2	1:2:406:LEU:CD1	2.35	0.56
1:3:623:LYS:HB2	1:3:645:PRO:HG3	1.87	0.56
1:7:623:LYS:HB2	1:7:645:PRO:HG3	1.87	0.56
1:8:623:LYS:HB2	1:8:645:PRO:HG3	1.87	0.56
1:8:241:ILE:HG12	1:8:686:GLU:HG3	1.87	0.56
1:A:290:PHE:CE2	1:A:614:VAL:HB	2.40	0.56
1:E:557:TYR:HE1	1:E:562:LEU:HD11	1.70	0.56
1:F:290:PHE:CE2	1:F:614:VAL:HB	2.40	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:557:TYR:HE1	1:H:562:LEU:HD11	1.70	0.56
1:I:404:GLN:HG2	1:I:406:LEU:CD1	2.35	0.56
1:I:557:TYR:HE1	1:I:562:LEU:HD11	1.70	0.56
1:J:556:ASP:OD1	1:J:557:TYR:N	2.38	0.56
1:L:404:GLN:HG2	1:L:406:LEU:CD1	2.35	0.56
1:D:587:GLN:NE2	1:L:498:ASN:OD1	151.79	0.56
1:L:557:TYR:HE1	1:L:562:LEU:HD11	1.70	0.56
1:N:290:PHE:CE2	1:N:614:VAL:HB	2.40	0.56
1:O:290:PHE:CE2	1:O:614:VAL:HB	2.40	0.56
1:O:556:ASP:OD1	1:O:557:TYR:N	2.38	0.56
1:O:623:LYS:HB2	1:O:645:PRO:HG3	1.87	0.56
1:O:652:LYS:HG2	1:O:653:ASN:O	2.05	0.56
1:P:404:GLN:HG2	1:P:406:LEU:CD1	2.35	0.56
1:P:623:LYS:HB2	1:P:645:PRO:HG3	1.88	0.56
1:R:260:GLN:NE2	1:R:276:PHE:HE1	2.03	0.56
1:N:669:LEU:HD11	1:R:374:MET:HB2	172.83	0.56
1:T:241:ILE:HG12	1:T:686:GLU:HG3	1.87	0.56
1:D:498:ASN:OD1	1:T:587:GLN:NE2	153.17	0.56
1:T:623:LYS:HB2	1:T:645:PRO:HG3	1.87	0.56
1:Z:498:ASN:OD1	1:2:587:GLN:NE2	112.94	0.56
1:1:241:ILE:HG12	1:1:686:GLU:HG3	1.87	0.56
1:3:290:PHE:CE2	1:3:614:VAL:HB	2.40	0.56
1:3:556:ASP:OD1	1:3:557:TYR:N	2.38	0.56
1:6:557:TYR:HE1	1:6:562:LEU:HD11	1.70	0.56
1:8:290:PHE:CE2	1:8:614:VAL:HB	2.40	0.56
1:A:260:GLN:NE2	1:A:276:PHE:HE1	2.03	0.56
1:A:556:ASP:OD1	1:A:557:TYR:N	2.38	0.56
1:B:404:GLN:HG2	1:B:406:LEU:CD1	2.35	0.56
1:D:241:ILE:HG12	1:D:686:GLU:HG3	1.87	0.56
1:D:324:LYS:NZ	1:D:337:ASN:OD1	2.35	0.56
1:E:382:THR:HG21	1:E:394:SER:H	1.70	0.56
1:F:404:GLN:HG2	1:F:406:LEU:CD1	2.35	0.56
1:G:382:THR:HG21	1:G:394:SER:H	1.70	0.56
1:H:404:GLN:HG2	1:H:406:LEU:CD1	2.35	0.56
1:I:324:LYS:NZ	1:I:337:ASN:OD1	2.35	0.56
1:M:290:PHE:CE2	1:M:614:VAL:HB	2.40	0.56
1:M:623:LYS:HB2	1:M:645:PRO:HG3	1.87	0.56
1:N:404:GLN:HG2	1:N:406:LEU:CD1	2.35	0.56
1:O:260:GLN:NE2	1:O:276:PHE:HE1	2.03	0.56
1:P:290:PHE:CE2	1:P:614:VAL:HB	2.40	0.56
1:R:290:PHE:CE2	1:R:614:VAL:HB	2.40	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:S:556:ASP:OD1	1:S:557:TYR:N	2.38	0.56
1:W:260:GLN:NE2	1:W:276:PHE:HE1	2.03	0.56
1:X:617:GLN:OE1	1:X:617:GLN:N	2.38	0.56
1:Y:290:PHE:CE2	1:Y:614:VAL:HB	2.40	0.56
1:Y:557:TYR:HE1	1:Y:562:LEU:HD11	1.70	0.56
1:2:617:GLN:N	1:2:617:GLN:OE1	2.38	0.56
1:4:382:THR:HG21	1:4:394:SER:H	1.70	0.56
1:4:404:GLN:HG2	1:4:406:LEU:CD1	2.35	0.56
1:A:324:LYS:NZ	1:A:337:ASN:OD1	2.35	0.56
1:A:660:PRO:HG2	1:J:251:PRO:HB3	80.96	0.56
1:C:557:TYR:HE1	1:C:562:LEU:HD11	1.70	0.56
1:F:652:LYS:HG2	1:F:653:ASN:O	2.05	0.56
1:G:623:LYS:HB2	1:G:645:PRO:HG3	1.87	0.56
1:H:324:LYS:NZ	1:H:337:ASN:OD1	2.35	0.56
1:E:251:PRO:HB3	1:H:660:PRO:HG2	139.82	0.56
1:J:241:ILE:HG12	1:J:686:GLU:HG3	1.87	0.56
1:J:623:LYS:HB2	1:J:645:PRO:HG3	1.87	0.56
1:K:556:ASP:OD1	1:K:557:TYR:N	2.38	0.56
1:A:498:ASN:OD1	1:K:587:GLN:NE2	159.36	0.56
1:L:382:THR:HG21	1:L:394:SER:H	1.70	0.56
1:N:382:THR:HG21	1:N:394:SER:H	1.70	0.56
1:D:587:GLN:NE2	1:N:498:ASN:OD1	2.39	0.56
1:P:260:GLN:NE2	1:P:276:PHE:HE1	2.03	0.56
1:P:324:LYS:NZ	1:P:337:ASN:OD1	2.35	0.56
1:Q:232:ASP:OD1	1:Q:232:ASP:N	2.37	0.56
1:S:290:PHE:CE2	1:S:614:VAL:HB	2.40	0.56
1:T:260:GLN:NE2	1:T:276:PHE:HE1	2.03	0.56
1:T:404:GLN:HG2	1:T:406:LEU:CD1	2.35	0.56
1:U:556:ASP:OD1	1:U:557:TYR:N	2.38	0.56
1:T:374:MET:HB2	1:U:669:LEU:HD11	1.86	0.56
1:T:498:ASN:OD1	1:V:587:GLN:NE2	123.77	0.56
1:1:404:GLN:HG2	1:1:406:LEU:CD1	2.35	0.56
1:2:241:ILE:HG12	1:2:686:GLU:HG3	1.87	0.56
1:3:374:MET:HB2	1:8:669:LEU:HD11	1.86	0.56
1:P:660:PRO:HG2	1:6:251:PRO:HB3	184.90	0.56
1:6:241:ILE:HG12	1:6:686:GLU:HG3	1.87	0.56
1:B:260:GLN:NE2	1:B:276:PHE:HE1	2.03	0.56
1:B:556:ASP:OD1	1:B:557:TYR:N	2.38	0.56
1:B:290:PHE:CE2	1:B:614:VAL:HB	2.40	0.56
1:C:382:THR:HG21	1:C:394:SER:H	1.70	0.56
1:D:260:GLN:NE2	1:D:276:PHE:HE1	2.03	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:617:GLN:N	1:D:617:GLN:OE1	2.38	0.56
1:F:623:LYS:HB2	1:F:645:PRO:HG3	1.87	0.56
1:F:251:PRO:HB3	1:G:660:PRO:HG2	1.88	0.56
1:H:556:ASP:OD1	1:H:557:TYR:N	2.38	0.56
1:I:623:LYS:HB2	1:I:645:PRO:HG3	1.87	0.56
1:B:587:GLN:NE2	1:J:498:ASN:OD1	2.39	0.56
1:L:290:PHE:CE2	1:L:614:VAL:HB	2.40	0.56
1:M:498:ASN:OD1	1:O:587:GLN:NE2	123.79	0.56
1:M:556:ASP:OD1	1:M:557:TYR:N	2.38	0.56
1:M:251:PRO:HB3	1:N:660:PRO:HG2	1.88	0.56
1:O:374:MET:HB2	1:P:669:LEU:HD11	1.86	0.56
1:S:324:LYS:NZ	1:S:337:ASN:OD1	2.35	0.56
1:S:557:TYR:HE1	1:S:562:LEU:HD11	1.70	0.56
1:L:587:GLN:NE2	1:T:498:ASN:OD1	232.40	0.56
1:V:557:TYR:HE1	1:V:562:LEU:HD11	1.70	0.56
1:V:669:LEU:HD11	1:1:374:MET:HB2	172.47	0.56
1:W:404:GLN:HG2	1:W:406:LEU:CD1	2.35	0.56
1:W:499:ASN:HA	1:Y:589:THR:HA	40.08	0.56
1:X:260:GLN:NE2	1:X:276:PHE:HE1	2.03	0.56
1:Y:241:ILE:HG12	1:Y:686:GLU:HG3	1.87	0.56
1:Z:498:ASN:OD1	1:3:587:GLN:NE2	2.39	0.56
1:1:260:GLN:NE2	1:1:276:PHE:HE1	2.03	0.56
1:2:260:GLN:NE2	1:2:276:PHE:HE1	2.03	0.56
1:Z:499:ASN:HA	1:2:589:THR:HA	118.46	0.56
1:2:623:LYS:HB2	1:2:645:PRO:HG3	1.87	0.56
1:6:382:THR:HG21	1:6:394:SER:H	1.70	0.56
1:7:260:GLN:NE2	1:7:276:PHE:HE1	2.03	0.56
1:C:623:LYS:HB2	1:C:645:PRO:HG3	1.87	0.56
1:D:340:THR:HB	1:S:322:GLN:NE2	102.85	0.56
1:D:589:THR:HA	1:L:499:ASN:HA	161.60	0.56
1:E:260:GLN:NE2	1:E:276:PHE:HE1	2.03	0.56
1:F:241:ILE:HG12	1:F:686:GLU:HG3	1.87	0.56
1:G:498:ASN:OD1	1:H:587:GLN:NE2	75.45	0.56
1:I:498:ASN:OD1	1:K:587:GLN:NE2	123.79	0.56
1:B:587:GLN:NE2	1:M:498:ASN:OD1	128.24	0.56
1:N:660:PRO:HG2	1:R:251:PRO:HB3	179.86	0.56
1:O:322:GLN:NE2	1:P:340:THR:HB	2.10	0.56
1:R:498:ASN:OD1	1:U:587:GLN:NE2	2.39	0.56
1:R:617:GLN:OE1	1:R:617:GLN:N	2.38	0.56
1:T:251:PRO:HB3	1:U:660:PRO:HG2	1.88	0.56
1:V:660:PRO:HG2	1:1:251:PRO:HB3	174.75	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:V:660:PRO:HG2	1:W:251:PRO:HB3	1.88	0.56
1:G:251:PRO:HB3	1:W:660:PRO:HG2	1.88	0.56
1:X:290:PHE:CE2	1:X:614:VAL:HB	2.40	0.56
1:Y:251:PRO:HB3	1:4:660:PRO:HG2	1.88	0.56
1:H:498:ASN:OD1	1:Y:587:GLN:NE2	2.39	0.56
1:Z:587:GLN:NE2	1:1:498:ASN:OD1	93.61	0.56
1:3:260:GLN:NE2	1:3:276:PHE:HE1	2.03	0.56
1:3:241:ILE:HG12	1:3:686:GLU:HG3	1.87	0.56
1:6:587:GLN:NE2	1:7:498:ASN:OD1	2.39	0.56
1:3:322:GLN:NE2	1:8:340:THR:HB	2.10	0.56
1:8:556:ASP:OD1	1:8:557:TYR:N	2.38	0.56
1:D:232:ASP:OD1	1:D:232:ASP:N	2.37	0.56
1:D:322:GLN:HE21	1:O:340:THR:CB	107.23	0.56
1:E:498:ASN:OD1	1:F:587:GLN:NE2	2.39	0.56
1:E:613:ASP:OD1	1:E:732:ARG:CD	2.52	0.56
1:F:498:ASN:OD1	1:G:587:GLN:NE2	89.79	0.56
1:I:251:PRO:HB3	1:J:660:PRO:HG2	1.88	0.56
1:I:587:GLN:NE2	1:J:498:ASN:OD1	109.06	0.56
1:O:587:GLN:NE2	1:P:498:ASN:OD1	109.07	0.56
1:P:251:PRO:HB3	1:Q:660:PRO:HG2	1.88	0.56
1:R:587:GLN:NE2	1:S:498:ASN:OD1	2.39	0.56
1:T:556:ASP:OD1	1:T:557:TYR:N	2.38	0.56
1:W:556:ASP:OD1	1:W:557:TYR:N	2.38	0.56
1:1:556:ASP:OD1	1:1:557:TYR:N	2.38	0.56
1:1:652:LYS:HG2	1:1:653:ASN:O	2.05	0.56
1:2:232:ASP:N	1:2:232:ASP:OD1	2.37	0.56
1:2:290:PHE:CE2	1:2:614:VAL:HB	2.40	0.56
1:3:613:ASP:OD1	1:3:732:ARG:CD	2.52	0.56
1:Z:587:GLN:NE2	1:4:498:ASN:OD1	2.39	0.56
1:A:382:THR:HG21	1:A:394:SER:H	1.70	0.56
1:A:404:GLN:HG2	1:A:406:LEU:CD1	2.35	0.56
1:B:382:THR:HG21	1:B:394:SER:H	1.70	0.56
1:B:660:PRO:HG2	1:C:251:PRO:HB3	1.88	0.56
1:C:251:PRO:HB3	1:M:660:PRO:HG2	102.64	0.56
1:C:499:ASN:HA	1:M:589:THR:HA	1.88	0.56
1:D:290:PHE:CE2	1:D:614:VAL:HB	2.40	0.56
1:G:587:GLN:NE2	1:I:498:ASN:OD1	2.39	0.56
1:J:251:PRO:HB3	1:X:660:PRO:HG2	151.79	0.56
1:J:589:THR:HA	1:L:499:ASN:HA	1.88	0.56
1:P:556:ASP:OD1	1:P:557:TYR:N	2.38	0.56
1:C:498:ASN:OD1	1:P:587:GLN:NE2	78.24	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:R:404:GLN:HG2	1:R:406:LEU:CD1	2.35	0.56
1:T:669:LEU:HD11	1:Y:374:MET:HB2	142.22	0.56
1:W:623:LYS:HB2	1:W:645:PRO:HG3	1.87	0.56
1:V:251:PRO:HB3	1:W:660:PRO:HG2	42.94	0.56
1:Y:613:ASP:OD1	1:Y:732:ARG:CD	2.52	0.56
1:2:251:PRO:HB3	1:3:660:PRO:HG2	1.88	0.56
1:6:290:PHE:CE2	1:6:614:VAL:HB	2.40	0.56
1:6:652:LYS:HG2	1:6:653:ASN:O	2.05	0.56
1:7:290:PHE:CE2	1:7:614:VAL:HB	2.40	0.56
1:8:404:GLN:HG2	1:8:406:LEU:CD1	2.35	0.56
1:C:556:ASP:OD1	1:C:557:TYR:N	2.38	0.56
1:K:241:ILE:HG12	1:K:686:GLU:HG3	1.87	0.56
1:B:660:PRO:HG2	1:L:251:PRO:HB3	84.82	0.56
1:J:587:GLN:NE2	1:L:498:ASN:OD1	2.39	0.56
1:L:623:LYS:HB2	1:L:645:PRO:HG3	1.87	0.56
1:M:587:GLN:NE2	1:N:498:ASN:OD1	109.07	0.56
1:O:404:GLN:HG2	1:O:406:LEU:CD1	2.35	0.56
1:R:556:ASP:OD1	1:R:557:TYR:N	2.38	0.56
1:S:404:GLN:HG2	1:S:406:LEU:CD1	2.35	0.56
1:X:404:GLN:HG2	1:X:406:LEU:CD1	2.35	0.56
1:X:556:ASP:OD1	1:X:557:TYR:N	2.38	0.56
1:Y:556:ASP:OD1	1:Y:557:TYR:N	2.38	0.56
1:3:404:GLN:HG2	1:3:406:LEU:CD1	2.35	0.56
1:3:498:ASN:OD1	1:4:587:GLN:NE2	2.39	0.56
1:4:623:LYS:HB2	1:4:645:PRO:HG3	1.88	0.56
1:5:623:LYS:HB2	1:5:645:PRO:HG3	1.87	0.56
1:5:652:LYS:HG2	1:5:653:ASN:O	2.05	0.56
1:B:617:GLN:N	1:B:617:GLN:OE1	2.38	0.56
1:D:251:PRO:HB3	1:O:660:PRO:HG2	118.39	0.56
1:D:556:ASP:OD1	1:D:557:TYR:N	2.38	0.56
1:E:499:ASN:HA	1:V:589:THR:HA	190.31	0.56
1:F:224:SER:O	1:X:407:ARG:HD3	102.13	0.56
1:G:556:ASP:OD1	1:G:557:TYR:N	2.38	0.56
1:I:556:ASP:OD1	1:I:557:TYR:N	2.38	0.56
1:K:617:GLN:N	1:K:617:GLN:OE1	2.38	0.56
1:L:660:PRO:HG2	1:N:251:PRO:HB3	139.84	0.56
1:C:498:ASN:OD1	1:M:587:GLN:NE2	2.39	0.56
1:N:623:LYS:HB2	1:N:645:PRO:HG3	1.87	0.56
1:N:587:GLN:NE2	1:O:498:ASN:OD1	75.45	0.56
1:V:324:LYS:NZ	1:V:337:ASN:OD1	2.35	0.56
1:J:224:SER:O	1:X:407:ARG:HD3	111.80	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Z:290:PHE:CE2	1:Z:614:VAL:HB	2.40	0.56
1:2:322:GLN:HE21	1:3:340:THR:CB	2.09	0.55
1:Z:660:PRO:HG2	1:4:251:PRO:HB3	102.64	0.55
1:6:404:GLN:HE21	1:6:406:LEU:HD11	1.67	0.55
1:6:556:ASP:OD1	1:6:557:TYR:N	2.38	0.55
1:T:251:PRO:HB3	1:6:660:PRO:HG2	181.55	0.55
1:7:556:ASP:OD1	1:7:557:TYR:N	2.38	0.55
1:7:557:TYR:HE1	1:7:562:LEU:HD11	1.70	0.55
1:3:251:PRO:HB3	1:8:660:PRO:HG2	1.88	0.55
1:A:587:GLN:NE2	1:8:498:ASN:OD1	173.48	0.55
1:C:660:PRO:HG2	1:D:251:PRO:HB3	1.87	0.55
1:E:241:ILE:HG12	1:E:686:GLU:HG3	1.87	0.55
1:D:660:PRO:HG2	1:E:251:PRO:HB3	1.88	0.55
1:E:587:GLN:NE2	1:Q:498:ASN:OD1	2.39	0.55
1:H:260:GLN:NE2	1:H:276:PHE:HE1	2.03	0.55
1:M:232:ASP:N	1:M:232:ASP:OD1	2.37	0.55
1:N:587:GLN:NE2	1:P:498:ASN:OD1	2.39	0.55
1:O:251:PRO:HB3	1:P:660:PRO:HG2	1.88	0.55
1:Q:623:LYS:HB2	1:Q:645:PRO:HG3	1.87	0.55
1:F:660:PRO:HG2	1:R:251:PRO:HB3	1.88	0.55
1:R:324:LYS:NZ	1:R:337:ASN:OD1	2.35	0.55
1:U:324:LYS:NZ	1:U:337:ASN:OD1	2.35	0.55
1:E:589:THR:HA	1:X:499:ASN:HA	156.86	0.55
1:Z:623:LYS:HB2	1:Z:645:PRO:HG3	1.87	0.55
1:G:251:PRO:HB3	1:1:660:PRO:HG2	184.90	0.55
1:5:498:ASN:OD1	1:7:587:GLN:NE2	2.39	0.55
1:5:499:ASN:HA	1:7:589:THR:HA	1.89	0.55
1:6:589:THR:HA	1:7:499:ASN:HA	1.89	0.55
1:7:241:ILE:HG12	1:7:686:GLU:HG3	1.87	0.55
1:K:660:PRO:HG2	1:7:251:PRO:HB3	1.88	0.55
1:D:589:THR:HA	1:N:499:ASN:HA	1.88	0.55
1:E:499:ASN:HA	1:F:589:THR:HA	1.88	0.55
1:E:556:ASP:OD1	1:E:557:TYR:N	2.38	0.55
1:E:589:THR:HA	1:Q:499:ASN:HA	1.89	0.55
1:I:251:PRO:HB3	1:T:660:PRO:HG2	193.25	0.55
1:K:499:ASN:HA	1:8:589:THR:HA	1.87	0.55
1:A:499:ASN:HA	1:K:589:THR:HA	166.20	0.55
1:K:251:PRO:HB3	1:L:660:PRO:HG2	1.87	0.55
1:D:499:ASN:HA	1:P:589:THR:HA	1.87	0.55
1:Q:251:PRO:HB3	1:S:660:PRO:HG2	1.88	0.55
1:U:557:TYR:HE1	1:U:562:LEU:HD11	1.70	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:V:498:ASN:OD1	1:X:587:GLN:NE2	2.39	0.55
1:5:587:GLN:NE2	1:6:498:ASN:OD1	2.39	0.55
1:A:499:ASN:HA	1:I:589:THR:HA	1.88	0.55
1:A:660:PRO:HG2	1:B:251:PRO:HB3	1.88	0.55
1:C:589:THR:HA	1:O:499:ASN:HA	156.65	0.55
1:F:587:GLN:NE2	1:H:498:ASN:OD1	151.79	0.55
1:F:589:THR:HA	1:H:499:ASN:HA	161.59	0.55
1:K:260:GLN:NE2	1:K:276:PHE:HE1	2.03	0.55
1:U:660:PRO:HG2	1:5:251:PRO:HB3	202.67	0.55
1:R:660:PRO:HG2	1:X:251:PRO:HB3	82.32	0.55
1:X:652:LYS:HG2	1:X:653:ASN:O	2.05	0.55
1:F:251:PRO:HB3	1:X:660:PRO:HG2	139.58	0.55
1:Z:589:THR:HA	1:1:499:ASN:HA	97.18	0.55
1:6:404:GLN:HG2	1:6:406:LEU:CD1	2.35	0.55
1:6:623:LYS:HB2	1:6:645:PRO:HG3	1.87	0.55
1:7:613:ASP:OD1	1:7:732:ARG:CD	2.52	0.55
1:8:260:GLN:NE2	1:8:276:PHE:HE1	2.03	0.55
1:B:251:PRO:HB3	1:O:660:PRO:HG2	151.79	0.55
1:H:224:SER:O	1:I:407:ARG:HD3	2.08	0.55
1:I:382:THR:HG21	1:I:394:SER:H	1.70	0.55
1:L:589:THR:HA	1:T:499:ASN:HA	245.56	0.55
1:M:589:THR:HA	1:N:499:ASN:HA	113.33	0.55
1:T:587:GLN:NE2	1:U:498:ASN:OD1	109.07	0.55
1:E:660:PRO:HG2	1:U:251:PRO:HB3	167.96	0.55
1:U:623:LYS:HB2	1:U:645:PRO:HG3	1.87	0.55
1:V:556:ASP:OD1	1:V:557:TYR:N	2.38	0.55
1:X:623:LYS:HB2	1:X:645:PRO:HG3	1.87	0.55
1:X:589:THR:HA	1:Y:499:ASN:HA	113.32	0.55
1:X:251:PRO:HB3	1:Y:660:PRO:HG2	1.87	0.55
1:Z:232:ASP:N	1:Z:232:ASP:OD1	2.37	0.55
1:1:232:ASP:N	1:1:232:ASP:OD1	2.37	0.55
1:Y:224:SER:O	1:4:407:ARG:HD3	2.07	0.55
1:Z:589:THR:HA	1:4:499:ASN:HA	1.88	0.55
1:5:329:ASN:OD1	1:5:330:GLU:OE1	2.25	0.55
1:5:382:THR:HG21	1:5:394:SER:H	1.70	0.55
1:G:407:ARG:HD3	1:K:224:SER:O	146.88	0.55
1:J:587:GLN:NE2	1:K:498:ASN:OD1	75.45	0.55
1:M:340:THR:CB	1:N:322:GLN:HE21	22.72	0.55
1:N:407:ARG:HD3	1:R:224:SER:O	146.88	0.55
1:C:499:ASN:HA	1:P:589:THR:HA	80.88	0.55
1:Q:382:THR:HG21	1:Q:394:SER:H	1.70	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:498:ASN:OD1	1:Q:587:GLN:NE2	2.39	0.55
1:Q:587:GLN:NE2	1:R:498:ASN:OD1	75.44	0.55
1:D:660:PRO:HG2	1:S:251:PRO:HB3	104.67	0.55
1:T:324:LYS:NZ	1:T:337:ASN:OD1	2.35	0.55
1:U:251:PRO:HB3	1:2:660:PRO:HG2	192.97	0.55
1:R:407:ARG:HD3	1:V:224:SER:O	2.06	0.55
1:V:499:ASN:HA	1:X:589:THR:HA	1.88	0.55
1:W:587:GLN:NE2	1:Y:498:ASN:OD1	2.39	0.55
1:3:329:ASN:OD1	1:3:330:GLU:OE1	2.25	0.55
1:B:329:ASN:OD1	1:B:330:GLU:OE1	2.25	0.55
1:B:557:TYR:HE1	1:B:562:LEU:HD11	1.70	0.55
1:C:660:PRO:HG2	1:S:251:PRO:HB3	111.59	0.55
1:E:587:GLN:NE2	1:X:498:ASN:OD1	149.10	0.55
1:G:589:THR:HA	1:I:499:ASN:HA	1.88	0.55
1:H:251:PRO:HB3	1:I:660:PRO:HG2	1.88	0.55
1:O:329:ASN:OD1	1:O:330:GLU:OE1	2.25	0.55
1:Q:329:ASN:OD1	1:Q:330:GLU:OE1	2.25	0.55
1:Q:589:THR:HA	1:R:499:ASN:HA	81.70	0.55
1:S:329:ASN:OD1	1:S:330:GLU:OE1	2.25	0.55
1:T:499:ASN:HA	1:V:589:THR:HA	131.67	0.55
1:U:329:ASN:OD1	1:U:330:GLU:OE1	2.25	0.55
1:V:329:ASN:OD1	1:V:330:GLU:OE1	2.25	0.55
1:X:241:ILE:HG12	1:X:686:GLU:HG3	1.87	0.55
1:1:329:ASN:OD1	1:1:330:GLU:OE1	2.25	0.55
1:8:329:ASN:OD1	1:8:330:GLU:OE1	2.25	0.55
1:B:498:ASN:OD1	1:C:587:GLN:NE2	109.06	0.55
1:D:407:ARG:HD3	1:E:224:SER:O	2.07	0.55
1:A:224:SER:O	1:E:407:ARG:HD3	2.07	0.55
1:E:407:ARG:HD3	1:U:224:SER:O	146.57	0.55
1:G:660:PRO:HG2	1:K:251:PRO:HB3	179.86	0.55
1:H:329:ASN:OD1	1:H:330:GLU:OE1	2.25	0.55
1:J:589:THR:HA	1:K:499:ASN:HA	81.71	0.55
1:M:660:PRO:HG2	1:N:251:PRO:HB3	42.94	0.55
1:P:329:ASN:OD1	1:P:330:GLU:OE1	2.25	0.55
1:R:329:ASN:OD1	1:R:330:GLU:OE1	2.25	0.55
1:R:499:ASN:HA	1:U:589:THR:HA	1.89	0.55
1:T:329:ASN:OD1	1:T:330:GLU:OE1	2.25	0.55
1:Y:329:ASN:OD1	1:Y:330:GLU:OE1	2.25	0.55
1:F:660:PRO:HG2	1:Z:251:PRO:HB3	140.20	0.55
1:2:556:ASP:OD1	1:2:557:TYR:N	2.38	0.55
1:U:407:ARG:HD3	1:5:224:SER:O	163.85	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:5:589:THR:HA	1:6:499:ASN:HA	1.88	0.55
1:K:407:ARG:HD3	1:7:224:SER:O	2.07	0.55
1:A:251:PRO:HB3	1:Z:660:PRO:HG2	110.38	0.55
1:J:660:PRO:HG2	1:L:251:PRO:HB3	102.64	0.55
1:K:324:LYS:NZ	1:K:337:ASN:OD1	2.35	0.55
1:B:498:ASN:OD1	1:L:587:GLN:NE2	2.39	0.55
1:N:324:LYS:NZ	1:N:337:ASN:OD1	2.35	0.55
1:Q:224:SER:O	1:S:407:ARG:HD3	2.07	0.55
1:P:224:SER:O	1:Q:407:ARG:HD3	2.06	0.55
1:F:499:ASN:HA	1:Q:589:THR:HA	1.88	0.55
1:M:251:PRO:HB3	1:S:660:PRO:HG2	126.11	0.55
1:V:382:THR:HG21	1:V:394:SER:H	1.70	0.55
1:W:329:ASN:OD1	1:W:330:GLU:OE1	2.25	0.55
1:W:589:THR:HA	1:Y:499:ASN:HA	1.88	0.55
1:H:660:PRO:HG2	1:Z:251:PRO:HB3	1.88	0.55
1:5:407:ARG:HD3	1:8:224:SER:O	2.06	0.55
1:A:224:SER:O	1:Z:407:ARG:HD3	103.02	0.55
1:A:623:LYS:HB2	1:A:645:PRO:HG3	1.87	0.55
1:C:329:ASN:OD1	1:C:330:GLU:OE1	2.25	0.55
1:C:587:GLN:NE2	1:O:498:ASN:OD1	147.64	0.55
1:H:587:GLN:NE2	1:W:498:ASN:OD1	2.39	0.55
1:K:329:ASN:OD1	1:K:330:GLU:OE1	2.25	0.55
1:M:407:ARG:HD3	1:N:224:SER:O	20.76	0.55
1:Q:498:ASN:OD1	1:S:587:GLN:NE2	89.79	0.55
1:G:224:SER:O	1:W:407:ARG:HD3	2.07	0.55
1:1:589:THR:HA	1:2:499:ASN:HA	1.88	0.55
1:6:329:ASN:OD1	1:6:330:GLU:OE1	2.25	0.55
1:A:589:THR:HA	1:8:499:ASN:HA	180.99	0.55
1:B:324:LYS:NZ	1:B:337:ASN:OD1	2.35	0.55
1:C:340:THR:CB	1:C:407:ARG:HH21	2.20	0.55
1:D:329:ASN:OD1	1:D:330:GLU:OE1	2.25	0.55
1:E:329:ASN:OD1	1:E:330:GLU:OE1	2.25	0.55
1:G:329:ASN:OD1	1:G:330:GLU:OE1	2.25	0.55
1:G:499:ASN:HA	1:H:589:THR:HA	81.71	0.55
1:F:499:ASN:HA	1:G:589:THR:HA	96.61	0.55
1:I:340:THR:CB	1:I:407:ARG:HH21	2.20	0.55
1:I:499:ASN:HA	1:K:589:THR:HA	131.68	0.55
1:A:498:ASN:OD1	1:I:587:GLN:NE2	2.39	0.55
1:A:407:ARG:HD3	1:J:224:SER:O	85.49	0.55
1:L:329:ASN:OD1	1:L:330:GLU:OE1	2.25	0.55
1:B:499:ASN:HA	1:L:589:THR:HA	1.88	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:589:THR:HA	1:P:499:ASN:HA	1.88	0.55
1:D:499:ASN:HA	1:T:589:THR:HA	159.76	0.55
1:S:587:GLN:NE2	1:U:498:ASN:OD1	2.39	0.55
1:W:324:LYS:NZ	1:W:337:ASN:OD1	2.35	0.55
1:5:714:ASP:HB3	1:5:726:PRO:HG3	1.90	0.54
1:A:329:ASN:OD1	1:A:330:GLU:OE1	2.25	0.54
1:B:499:ASN:HA	1:C:589:THR:HA	113.32	0.54
1:F:329:ASN:OD1	1:F:330:GLU:OE1	2.25	0.54
1:I:329:ASN:OD1	1:I:330:GLU:OE1	2.25	0.54
1:I:589:THR:HA	1:J:499:ASN:HA	113.32	0.54
1:M:329:ASN:OD1	1:M:330:GLU:OE1	2.25	0.54
1:M:224:SER:O	1:N:407:ARG:HD3	2.06	0.54
1:Q:714:ASP:HB3	1:Q:726:PRO:HG3	1.90	0.54
1:S:714:ASP:HB3	1:S:726:PRO:HG3	1.90	0.54
1:U:587:GLN:NE2	1:V:498:ASN:OD1	75.44	0.54
1:V:407:ARG:HD3	1:W:224:SER:O	2.08	0.54
1:G:322:GLN:NE2	1:W:340:THR:HB	2.11	0.54
1:W:592:GLY:HA2	1:X:499:ASN:HD22	81.02	0.54
1:3:499:ASN:HA	1:4:589:THR:HA	1.89	0.54
1:C:714:ASP:HB3	1:C:726:PRO:HG3	1.90	0.54
1:C:407:ARG:HD3	1:D:224:SER:O	2.07	0.54
1:E:324:LYS:NZ	1:E:337:ASN:OD1	2.35	0.54
1:J:329:ASN:OD1	1:J:330:GLU:OE1	2.25	0.54
1:K:224:SER:O	1:L:407:ARG:HD3	2.07	0.54
1:L:340:THR:CB	1:L:407:ARG:HH21	2.20	0.54
1:N:329:ASN:OD1	1:N:330:GLU:OE1	2.25	0.54
1:O:714:ASP:HB3	1:O:726:PRO:HG3	1.90	0.54
1:X:714:ASP:HB3	1:X:726:PRO:HG3	1.90	0.54
1:1:714:ASP:HB3	1:1:726:PRO:HG3	1.90	0.54
1:7:340:THR:CB	1:7:407:ARG:HH21	2.20	0.54
1:5:660:PRO:HG2	1:8:251:PRO:HB3	1.88	0.54
1:A:589:THR:HA	1:G:499:ASN:HA	1.88	0.54
1:A:714:ASP:HB3	1:A:726:PRO:HG3	1.90	0.54
1:B:714:ASP:HB3	1:B:726:PRO:HG3	1.90	0.54
1:E:340:THR:CB	1:E:407:ARG:HH21	2.21	0.54
1:H:714:ASP:HB3	1:H:726:PRO:HG3	1.90	0.54
1:I:714:ASP:HB3	1:I:726:PRO:HG3	1.90	0.54
1:N:589:THR:HA	1:O:499:ASN:HA	81.71	0.54
1:R:660:PRO:HG2	1:V:251:PRO:HB3	1.88	0.54
1:T:714:ASP:HB3	1:T:726:PRO:HG3	1.90	0.54
1:Z:324:LYS:NZ	1:Z:337:ASN:OD1	2.35	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:407:ARG:HD3	1:L:224:SER:O	77.84	0.54
1:R:714:ASP:HB3	1:R:726:PRO:HG3	1.90	0.54
1:M:224:SER:O	1:S:407:ARG:HD3	101.39	0.54
1:W:340:THR:CB	1:W:407:ARG:HH21	2.20	0.54
1:Z:714:ASP:HB3	1:Z:726:PRO:HG3	1.89	0.54
1:1:340:THR:CB	1:1:407:ARG:HH21	2.20	0.54
1:2:714:ASP:HB3	1:2:726:PRO:HG3	1.90	0.54
1:4:714:ASP:HB3	1:4:726:PRO:HG3	1.90	0.54
1:B:407:ARG:HD3	1:C:224:SER:O	2.07	0.54
1:C:407:ARG:HD3	1:S:224:SER:O	103.60	0.54
1:D:224:SER:O	1:O:407:ARG:HD3	100.97	0.54
1:D:714:ASP:HB3	1:D:726:PRO:HG3	1.90	0.54
1:L:714:ASP:HB3	1:L:726:PRO:HG3	1.90	0.54
1:N:714:ASP:HB3	1:N:726:PRO:HG3	1.90	0.54
1:T:340:THR:CB	1:T:407:ARG:HH21	2.20	0.54
1:K:660:PRO:HG2	1:W:251:PRO:HB3	189.33	0.54
1:3:340:THR:CB	1:3:407:ARG:HH21	2.20	0.54
1:5:340:THR:CB	1:5:407:ARG:HH21	2.21	0.54
1:8:324:LYS:NZ	1:8:337:ASN:OD1	2.35	0.54
1:H:407:ARG:HD3	1:Z:224:SER:O	2.07	0.54
1:L:407:ARG:HD3	1:N:224:SER:O	111.25	0.54
1:U:714:ASP:HB3	1:U:726:PRO:HG3	1.90	0.54
1:V:714:ASP:HB3	1:V:726:PRO:HG3	1.90	0.54
1:X:329:ASN:OD1	1:X:330:GLU:OE1	2.25	0.54
1:X:340:THR:CB	1:X:407:ARG:HH21	2.20	0.54
1:H:499:ASN:HA	1:Y:589:THR:HA	1.88	0.54
1:Z:329:ASN:OD1	1:Z:330:GLU:OE1	2.25	0.54
1:Z:407:ARG:HD3	1:4:224:SER:O	90.29	0.54
1:Z:340:THR:CB	1:Z:407:ARG:HH21	2.20	0.54
1:2:224:SER:O	1:3:407:ARG:HD3	2.07	0.54
1:G:340:THR:CB	1:G:407:ARG:HH21	2.20	0.54
1:M:714:ASP:HB3	1:M:726:PRO:HG3	1.90	0.54
1:O:340:THR:CB	1:O:407:ARG:HH21	2.20	0.54
1:Q:340:THR:CB	1:Q:407:ARG:HH21	2.21	0.54
1:1:324:LYS:NZ	1:1:337:ASN:OD1	2.35	0.54
1:A:340:THR:CB	1:A:407:ARG:HH21	2.20	0.54
1:B:232:ASP:N	1:B:232:ASP:OD1	2.37	0.54
1:A:251:PRO:HB3	1:E:660:PRO:HG2	1.88	0.54
1:K:714:ASP:HB3	1:K:726:PRO:HG3	1.90	0.54
1:O:224:SER:O	1:7:407:ARG:HD3	153.78	0.54
1:P:340:THR:CB	1:P:407:ARG:HH21	2.21	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:R:589:THR:HA	1:S:499:ASN:HA	1.88	0.54
1:U:589:THR:HA	1:V:499:ASN:HA	81.70	0.54
1:Y:714:ASP:HB3	1:Y:726:PRO:HG3	1.89	0.54
1:G:714:ASP:HB3	1:G:726:PRO:HG3	1.90	0.54
1:J:407:ARG:HD3	1:L:224:SER:O	90.29	0.54
1:M:324:LYS:NZ	1:M:337:ASN:OD1	2.35	0.54
1:O:251:PRO:HB3	1:7:660:PRO:HG2	176.14	0.54
1:S:589:THR:HA	1:U:499:ASN:HA	1.89	0.54
1:W:714:ASP:HB3	1:W:726:PRO:HG3	1.90	0.54
1:X:324:LYS:NZ	1:X:337:ASN:OD1	2.35	0.54
1:2:329:ASN:OD1	1:2:330:GLU:OE1	2.25	0.54
1:J:340:THR:CB	1:J:407:ARG:HH21	2.21	0.54
1:M:340:THR:CB	1:M:407:ARG:HH21	2.21	0.54
1:P:714:ASP:HB3	1:P:726:PRO:HG3	1.90	0.54
1:X:224:SER:O	1:Y:407:ARG:HD3	2.07	0.54
1:Y:526:MET:HE1	1:Y:575:ALA:HA	1.94	0.54
1:1:340:THR:CB	1:1:407:ARG:NH2	2.72	0.53
1:8:340:THR:CB	1:8:407:ARG:NH2	2.72	0.53
1:B:589:THR:HA	1:J:499:ASN:HA	1.89	0.53
1:J:324:LYS:NZ	1:J:337:ASN:OD1	2.35	0.53
1:O:224:SER:O	1:P:407:ARG:HD3	2.08	0.53
1:Q:324:LYS:NZ	1:Q:337:ASN:OD1	2.35	0.53
1:R:434:ASP:OD1	1:R:434:ASP:N	2.41	0.53
1:T:224:SER:O	1:U:407:ARG:HD3	2.08	0.53
1:T:340:THR:CB	1:T:407:ARG:NH2	2.72	0.53
1:U:224:SER:O	1:2:407:ARG:HD3	154.12	0.53
1:T:589:THR:HA	1:U:499:ASN:HA	113.33	0.53
1:V:526:MET:HE1	1:V:575:ALA:HA	1.90	0.53
1:3:714:ASP:HB3	1:3:726:PRO:HG3	1.90	0.53
1:4:329:ASN:OD1	1:4:330:GLU:OE1	2.25	0.53
1:5:340:THR:CB	1:5:407:ARG:NH2	2.72	0.53
1:7:329:ASN:OD1	1:7:330:GLU:OE1	2.25	0.53
1:3:224:SER:O	1:8:407:ARG:HD3	2.08	0.53
1:A:340:THR:CB	1:A:407:ARG:NH2	2.72	0.53
1:B:589:THR:HA	1:M:499:ASN:HA	133.83	0.53
1:D:407:ARG:HD3	1:S:224:SER:O	95.96	0.53
1:E:254:ASN:O	1:E:255:ASN:C	2.47	0.53
1:H:340:THR:CB	1:H:407:ARG:NH2	2.72	0.53
1:H:322:GLN:NE2	1:I:340:THR:HB	2.11	0.53
1:M:254:ASN:O	1:M:255:ASN:C	2.47	0.53
1:N:340:THR:CB	1:N:407:ARG:NH2	2.72	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:P:340:THR:CB	1:P:407:ARG:NH2	2.72	0.53
1:O:589:THR:HA	1:P:499:ASN:HA	113.33	0.53
1:Q:340:THR:CB	1:Q:407:ARG:NH2	2.72	0.53
1:V:407:ARG:HD3	1:1:224:SER:O	153.63	0.53
1:W:254:ASN:O	1:W:255:ASN:C	2.47	0.53
1:R:407:ARG:HD3	1:X:224:SER:O	85.55	0.53
1:Y:324:LYS:NZ	1:Y:337:ASN:OD1	2.35	0.53
1:Z:254:ASN:O	1:Z:255:ASN:C	2.47	0.53
1:2:340:THR:CB	1:2:407:ARG:NH2	2.72	0.53
1:Z:629:GLY:CA	1:3:609:TRP:CD1	2.85	0.53
1:5:254:ASN:O	1:5:255:ASN:C	2.47	0.53
1:8:232:ASP:OD1	1:8:232:ASP:N	2.37	0.53
1:D:340:THR:CB	1:D:407:ARG:NH2	2.72	0.53
1:J:714:ASP:HB3	1:J:726:PRO:HG3	1.90	0.53
1:K:340:THR:CB	1:K:407:ARG:NH2	2.72	0.53
1:N:340:THR:CB	1:N:407:ARG:HH21	2.21	0.53
1:Q:254:ASN:O	1:Q:255:ASN:C	2.47	0.53
1:Q:499:ASN:HA	1:S:589:THR:HA	96.60	0.53
1:U:340:THR:CB	1:U:407:ARG:NH2	2.72	0.53
1:V:340:THR:CB	1:V:407:ARG:NH2	2.72	0.53
1:W:340:THR:CB	1:W:407:ARG:NH2	2.72	0.53
1:F:407:ARG:HD3	1:Z:224:SER:O	101.97	0.53
1:Z:499:ASN:HA	1:3:589:THR:HA	1.88	0.53
1:D:328:GLN:NE2	1:D:333:LYS:HG3	2.24	0.53
1:E:224:SER:O	1:H:407:ARG:HD3	111.23	0.53
1:E:340:THR:CB	1:E:407:ARG:NH2	2.72	0.53
1:H:589:THR:HA	1:W:499:ASN:HA	1.89	0.53
1:I:224:SER:O	1:T:407:ARG:HD3	164.00	0.53
1:M:499:ASN:HA	1:O:589:THR:HA	131.68	0.53
1:B:224:SER:O	1:O:407:ARG:HD3	111.80	0.53
1:T:224:SER:O	1:6:407:ARG:HD3	161.39	0.53
1:4:254:ASN:O	1:4:255:ASN:C	2.47	0.53
1:A:232:ASP:N	1:A:232:ASP:OD1	2.37	0.53
1:C:328:GLN:NE2	1:C:333:LYS:HG3	2.24	0.53
1:C:324:LYS:NZ	1:C:337:ASN:OD1	2.35	0.53
1:G:340:THR:CB	1:G:407:ARG:NH2	2.72	0.53
1:H:425:SER:HB3	1:W:628:ASP:OD1	2.09	0.53
1:J:340:THR:CB	1:J:407:ARG:NH2	2.72	0.53
1:N:254:ASN:O	1:N:255:ASN:C	2.47	0.53
1:M:629:GLY:CA	1:O:609:TRP:CD1	110.58	0.53
1:Q:628:ASP:OD1	1:S:425:SER:HB3	86.47	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:499:ASN:HD22	1:V:592:GLY:HA2	181.95	0.53
1:G:224:SER:O	1:1:407:ARG:HD3	153.72	0.53
1:4:340:THR:CB	1:4:407:ARG:NH2	2.72	0.53
1:P:407:ARG:HD3	1:6:224:SER:O	153.72	0.53
1:B:529:HIS:ND1	1:B:533:GLU:O	2.42	0.53
1:E:434:ASP:OD1	1:E:434:ASP:N	2.41	0.53
1:F:407:ARG:HD3	1:R:224:SER:O	2.07	0.53
1:F:340:THR:CB	1:F:407:ARG:NH2	2.72	0.53
1:F:714:ASP:HB3	1:F:726:PRO:HG3	1.90	0.53
1:H:529:HIS:ND1	1:H:533:GLU:O	2.42	0.53
1:I:340:THR:CB	1:I:407:ARG:NH2	2.72	0.53
1:O:324:LYS:NZ	1:O:337:ASN:OD1	2.35	0.53
1:S:529:HIS:ND1	1:S:533:GLU:O	2.42	0.53
1:W:586:LEU:HD21	1:X:490:ARG:NH1	82.11	0.53
1:Y:254:ASN:O	1:Y:255:ASN:C	2.47	0.53
1:Y:529:HIS:ND1	1:Y:533:GLU:O	2.42	0.53
1:1:254:ASN:O	1:1:255:ASN:C	2.47	0.53
1:3:324:LYS:NZ	1:3:337:ASN:OD1	2.35	0.53
1:6:529:HIS:ND1	1:6:533:GLU:O	2.42	0.53
1:6:714:ASP:HB3	1:6:726:PRO:HG3	1.90	0.53
1:7:434:ASP:OD1	1:7:434:ASP:N	2.41	0.53
1:D:529:HIS:ND1	1:D:533:GLU:O	2.42	0.53
1:E:529:HIS:ND1	1:E:533:GLU:O	2.42	0.53
1:F:224:SER:O	1:G:407:ARG:HD3	2.08	0.53
1:F:529:HIS:ND1	1:F:533:GLU:O	2.42	0.53
1:H:340:THR:CB	1:H:407:ARG:HH21	2.21	0.53
1:K:340:THR:CB	1:K:407:ARG:HH21	2.21	0.53
1:O:340:THR:CB	1:O:407:ARG:NH2	2.72	0.53
1:S:340:THR:CB	1:S:407:ARG:HH21	2.20	0.53
1:S:340:THR:CB	1:S:407:ARG:NH2	2.72	0.53
1:V:254:ASN:O	1:V:255:ASN:C	2.47	0.53
1:V:529:HIS:ND1	1:V:533:GLU:O	2.42	0.53
1:W:434:ASP:OD1	1:W:434:ASP:N	2.41	0.53
1:1:328:GLN:NE2	1:1:333:LYS:HG3	2.24	0.53
1:3:328:GLN:NE2	1:3:333:LYS:HG3	2.24	0.53
1:3:628:ASP:OD1	1:4:425:SER:HB3	2.09	0.53
1:7:340:THR:CB	1:7:407:ARG:NH2	2.72	0.53
1:B:328:GLN:NE2	1:B:333:LYS:HG3	2.24	0.53
1:C:529:HIS:ND1	1:C:533:GLU:O	2.42	0.53
1:D:340:THR:CB	1:D:407:ARG:HH21	2.20	0.53
1:F:324:LYS:NZ	1:F:337:ASN:OD1	2.35	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:526:MET:HE1	1:I:575:ALA:HA	1.99	0.53
1:I:529:HIS:ND1	1:I:533:GLU:O	2.42	0.53
1:J:328:GLN:NE2	1:J:333:LYS:HG3	2.24	0.53
1:K:529:HIS:ND1	1:K:533:GLU:O	2.42	0.53
1:M:340:THR:CB	1:M:407:ARG:NH2	2.72	0.53
1:N:425:SER:HB3	1:O:628:ASP:OD1	64.00	0.53
1:R:529:HIS:ND1	1:R:533:GLU:O	2.42	0.53
1:T:254:ASN:O	1:T:255:ASN:C	2.47	0.53
1:T:529:HIS:ND1	1:T:533:GLU:O	2.42	0.53
1:U:416:TYR:OH	1:U:644:HIS:O	2.27	0.53
1:W:529:HIS:ND1	1:W:533:GLU:O	2.42	0.53
1:A:529:HIS:ND1	1:A:533:GLU:O	2.42	0.53
1:A:407:ARG:HD3	1:B:224:SER:O	2.08	0.53
1:B:340:THR:CB	1:B:407:ARG:NH2	2.72	0.53
1:G:526:MET:HE1	1:G:575:ALA:HA	2.03	0.53
1:J:529:HIS:ND1	1:J:533:GLU:O	2.42	0.53
1:L:529:HIS:ND1	1:L:533:GLU:O	2.42	0.53
1:O:328:GLN:NE2	1:O:333:LYS:HG3	2.24	0.53
1:T:328:GLN:NE2	1:T:333:LYS:HG3	2.24	0.53
1:Y:340:THR:CB	1:Y:407:ARG:NH2	2.71	0.53
1:Z:529:HIS:ND1	1:Z:533:GLU:O	2.42	0.53
1:4:529:HIS:ND1	1:4:533:GLU:O	2.42	0.53
1:C:340:THR:CB	1:C:407:ARG:NH2	2.71	0.53
1:D:499:ASN:HD22	1:P:592:GLY:HA2	1.74	0.53
1:F:328:GLN:NE2	1:F:333:LYS:HG3	2.24	0.53
1:M:529:HIS:ND1	1:M:533:GLU:O	2.42	0.53
1:O:254:ASN:O	1:O:255:ASN:C	2.47	0.53
1:O:529:HIS:ND1	1:O:533:GLU:O	2.42	0.53
1:O:583:ALA:HA	1:O:595:VAL:HG12	1.91	0.53
1:Q:529:HIS:ND1	1:Q:533:GLU:O	2.42	0.53
1:T:660:PRO:HG2	1:Y:251:PRO:HB3	133.29	0.53
1:U:529:HIS:ND1	1:U:533:GLU:O	2.42	0.53
1:W:416:TYR:OH	1:W:644:HIS:O	2.27	0.53
1:Z:340:THR:CB	1:Z:407:ARG:NH2	2.71	0.53
1:Z:628:ASP:OD1	1:3:425:SER:HB3	2.09	0.53
1:3:254:ASN:O	1:3:255:ASN:C	2.47	0.52
1:3:583:ALA:HA	1:3:595:VAL:HG12	1.91	0.52
1:5:583:ALA:HA	1:5:595:VAL:HG12	1.92	0.52
1:6:254:ASN:O	1:6:255:ASN:C	2.47	0.52
1:A:254:ASN:O	1:A:255:ASN:C	2.47	0.52
1:A:628:ASP:OD1	1:K:425:SER:HB3	92.28	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:340:THR:CB	1:L:407:ARG:NH2	2.71	0.52
1:C:224:SER:O	1:M:407:ARG:HD3	90.29	0.52
1:B:425:SER:HB3	1:M:628:ASP:OD1	90.09	0.52
1:M:628:ASP:OD1	1:O:425:SER:HB3	104.94	0.52
1:N:529:HIS:ND1	1:N:533:GLU:O	2.42	0.52
1:D:425:SER:HB3	1:N:628:ASP:OD1	2.10	0.52
1:N:416:TYR:OH	1:N:644:HIS:O	2.27	0.52
1:Q:416:TYR:OH	1:Q:644:HIS:O	2.27	0.52
1:R:254:ASN:O	1:R:256:HIS:N	2.43	0.52
1:S:328:GLN:NE2	1:S:333:LYS:HG3	2.24	0.52
1:T:254:ASN:O	1:T:256:HIS:N	2.43	0.52
1:X:529:HIS:ND1	1:X:533:GLU:O	2.42	0.52
1:X:592:GLY:HA2	1:Y:499:ASN:HD22	104.86	0.52
1:Z:425:SER:HB3	1:1:628:ASP:OD1	85.07	0.52
1:1:254:ASN:O	1:1:256:HIS:N	2.43	0.52
1:4:416:TYR:OH	1:4:644:HIS:O	2.27	0.52
1:5:232:ASP:N	1:5:232:ASP:OD1	2.37	0.52
1:6:340:THR:CB	1:6:407:ARG:NH2	2.72	0.52
1:7:529:HIS:ND1	1:7:533:GLU:O	2.42	0.52
1:6:425:SER:HB3	1:7:628:ASP:OD1	2.09	0.52
1:8:340:THR:CB	1:8:407:ARG:HH21	2.20	0.52
1:K:499:ASN:HD22	1:8:592:GLY:HA2	1.74	0.52
1:8:714:ASP:HB3	1:8:726:PRO:HG3	1.90	0.52
1:G:254:ASN:O	1:G:256:HIS:N	2.43	0.52
1:G:529:HIS:ND1	1:G:533:GLU:O	2.42	0.52
1:G:416:TYR:OH	1:G:644:HIS:O	2.27	0.52
1:I:224:SER:O	1:J:407:ARG:HD3	2.08	0.52
1:I:416:TYR:OH	1:I:644:HIS:O	2.27	0.52
1:J:425:SER:HB3	1:L:628:ASP:OD1	2.10	0.52
1:C:628:ASP:OD1	1:M:425:SER:HB3	2.10	0.52
1:P:254:ASN:O	1:P:256:HIS:N	2.43	0.52
1:Q:583:ALA:HA	1:Q:595:VAL:HG12	1.92	0.52
1:S:254:ASN:O	1:S:256:HIS:N	2.43	0.52
1:S:583:ALA:HA	1:S:595:VAL:HG12	1.92	0.52
1:U:254:ASN:O	1:U:256:HIS:N	2.43	0.52
1:U:583:ALA:HA	1:U:595:VAL:HG12	1.92	0.52
1:T:425:SER:HB3	1:U:628:ASP:OD1	39.71	0.52
1:W:583:ALA:HA	1:W:595:VAL:HG12	1.91	0.52
1:X:340:THR:CB	1:X:407:ARG:NH2	2.72	0.52
1:X:416:TYR:OH	1:X:644:HIS:O	2.27	0.52
1:Y:254:ASN:O	1:Y:256:HIS:N	2.43	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:6:583:ALA:HA	1:6:595:VAL:HG12	1.92	0.52
1:7:328:GLN:NE2	1:7:333:LYS:HG3	2.24	0.52
1:C:254:ASN:O	1:C:256:HIS:N	2.43	0.52
1:B:628:ASP:OD1	1:C:425:SER:HB3	39.71	0.52
1:F:254:ASN:O	1:F:255:ASN:C	2.47	0.52
1:E:628:ASP:OD1	1:F:425:SER:HB3	2.09	0.52
1:F:583:ALA:HA	1:F:595:VAL:HG12	1.92	0.52
1:F:628:ASP:OD1	1:G:425:SER:HB3	86.46	0.52
1:H:254:ASN:O	1:H:255:ASN:C	2.47	0.52
1:I:254:ASN:O	1:I:255:ASN:C	2.47	0.52
1:I:254:ASN:O	1:I:256:HIS:N	2.43	0.52
1:B:425:SER:HB3	1:J:628:ASP:OD1	2.09	0.52
1:I:425:SER:HB3	1:J:628:ASP:OD1	39.70	0.52
1:K:254:ASN:O	1:K:255:ASN:C	2.47	0.52
1:L:254:ASN:O	1:L:256:HIS:N	2.43	0.52
1:M:254:ASN:O	1:M:256:HIS:N	2.43	0.52
1:O:425:SER:HB3	1:P:628:ASP:OD1	39.71	0.52
1:R:340:THR:CB	1:R:407:ARG:HH21	2.21	0.52
1:L:425:SER:HB3	1:T:628:ASP:OD1	188.62	0.52
1:U:328:GLN:NE2	1:U:333:LYS:HG3	2.24	0.52
1:U:340:THR:CB	1:U:407:ARG:HH21	2.20	0.52
1:1:592:GLY:HA2	1:2:499:ASN:HD22	1.75	0.52
1:6:254:ASN:O	1:6:256:HIS:N	2.43	0.52
1:7:254:ASN:O	1:7:256:HIS:N	2.43	0.52
1:A:609:TRP:CD1	1:G:629:GLY:CA	2.85	0.52
1:D:254:ASN:O	1:D:255:ASN:C	2.47	0.52
1:E:254:ASN:O	1:E:256:HIS:N	2.43	0.52
1:F:254:ASN:O	1:F:256:HIS:N	2.43	0.52
1:H:254:ASN:O	1:H:256:HIS:N	2.43	0.52
1:I:592:GLY:HA2	1:J:499:ASN:HD22	104.85	0.52
1:K:254:ASN:O	1:K:256:HIS:N	2.43	0.52
1:B:628:ASP:OD1	1:L:425:SER:HB3	2.10	0.52
1:O:416:TYR:OH	1:O:644:HIS:O	2.27	0.52
1:R:254:ASN:O	1:R:255:ASN:C	2.47	0.52
1:R:340:THR:CB	1:R:407:ARG:NH2	2.72	0.52
1:R:425:SER:HB3	1:S:628:ASP:OD1	2.09	0.52
1:R:583:ALA:HA	1:R:595:VAL:HG12	1.92	0.52
1:Q:425:SER:HB3	1:R:628:ASP:OD1	64.00	0.52
1:U:570:THR:OG1	1:U:571:THR:N	2.43	0.52
1:S:425:SER:HB3	1:U:628:ASP:OD1	2.09	0.52
1:V:254:ASN:O	1:V:256:HIS:N	2.43	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:X:583:ALA:HA	1:X:595:VAL:HG12	1.92	0.52
1:1:529:HIS:ND1	1:1:533:GLU:O	2.42	0.52
1:2:529:HIS:ND1	1:2:533:GLU:O	2.42	0.52
1:2:570:THR:OG1	1:2:571:THR:N	2.43	0.52
1:5:254:ASN:O	1:5:256:HIS:N	2.43	0.52
1:7:416:TYR:OH	1:7:644:HIS:O	2.27	0.52
1:8:254:ASN:O	1:8:256:HIS:N	2.43	0.52
1:A:583:ALA:HA	1:A:595:VAL:HG12	1.92	0.52
1:A:416:TYR:OH	1:A:644:HIS:O	2.27	0.52
1:C:254:ASN:O	1:C:255:ASN:C	2.47	0.52
1:D:570:THR:OG1	1:D:571:THR:N	2.43	0.52
1:E:328:GLN:NE2	1:E:333:LYS:HG3	2.24	0.52
1:H:628:ASP:OD1	1:Y:425:SER:HB3	2.09	0.52
1:K:583:ALA:HA	1:K:595:VAL:HG12	1.92	0.52
1:C:628:ASP:OD1	1:P:425:SER:HB3	66.27	0.52
1:Q:254:ASN:O	1:Q:256:HIS:N	2.43	0.52
1:Q:328:GLN:NE2	1:Q:333:LYS:HG3	2.24	0.52
1:D:499:ASN:HD22	1:T:592:GLY:HA2	158.64	0.52
1:V:340:THR:CB	1:V:407:ARG:HH21	2.20	0.52
1:V:570:THR:OG1	1:V:571:THR:N	2.43	0.52
1:W:328:GLN:NE2	1:W:333:LYS:HG3	2.24	0.52
1:W:425:SER:HB3	1:Y:628:ASP:OD1	2.09	0.52
1:W:628:ASP:OD1	1:Y:425:SER:HB3	28.05	0.52
1:Z:254:ASN:O	1:Z:256:HIS:N	2.43	0.52
1:Z:583:ALA:HA	1:Z:595:VAL:HG12	1.92	0.52
1:2:254:ASN:O	1:2:256:HIS:N	2.43	0.52
1:1:425:SER:HB3	1:2:628:ASP:OD1	2.09	0.52
1:3:340:THR:CB	1:3:407:ARG:NH2	2.72	0.52
1:5:628:ASP:OD1	1:7:425:SER:HB3	2.09	0.52
1:8:570:THR:OG1	1:8:571:THR:N	2.43	0.52
1:A:254:ASN:O	1:A:256:HIS:N	2.43	0.52
1:C:570:THR:OG1	1:C:571:THR:N	2.43	0.52
1:C:583:ALA:HA	1:C:595:VAL:HG12	1.92	0.52
1:D:254:ASN:O	1:D:256:HIS:N	2.43	0.52
1:E:416:TYR:OH	1:E:644:HIS:O	2.27	0.52
1:G:340:THR:HB	1:K:322:GLN:NE2	159.35	0.52
1:G:425:SER:HB3	1:I:628:ASP:OD1	2.10	0.52
1:J:254:ASN:O	1:J:256:HIS:N	2.43	0.52
1:P:570:THR:OG1	1:P:571:THR:N	2.43	0.52
1:T:583:ALA:HA	1:T:595:VAL:HG12	1.91	0.52
1:W:254:ASN:O	1:W:256:HIS:N	2.43	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:W:570:THR:OG1	1:W:571:THR:N	2.43	0.52
1:3:629:GLY:CA	1:4:609:TRP:CD1	2.85	0.52
1:6:232:ASP:OD1	1:6:232:ASP:N	2.37	0.52
1:B:583:ALA:HA	1:B:595:VAL:HG12	1.92	0.52
1:C:499:ASN:HD22	1:M:592:GLY:HA2	1.75	0.52
1:C:609:TRP:CH2	1:C:631:PHE:CE2	2.98	0.52
1:F:329:ASN:CG	1:F:330:GLU:OE1	2.49	0.52
1:F:499:ASN:HD22	1:G:592:GLY:HA2	96.49	0.52
1:I:609:TRP:CH2	1:I:631:PHE:CE2	2.98	0.52
1:L:583:ALA:HA	1:L:595:VAL:HG12	1.92	0.52
1:L:416:TYR:OH	1:L:644:HIS:O	2.27	0.52
1:M:570:THR:OG1	1:M:571:THR:N	2.43	0.52
1:M:583:ALA:HA	1:M:595:VAL:HG12	1.92	0.52
1:O:254:ASN:O	1:O:256:HIS:N	2.43	0.52
1:E:425:SER:HB3	1:Q:628:ASP:OD1	2.09	0.52
1:R:329:ASN:CG	1:R:330:GLU:OE1	2.48	0.52
1:R:570:THR:OG1	1:R:571:THR:N	2.43	0.52
1:S:609:TRP:CH2	1:S:631:PHE:CE2	2.98	0.52
1:D:628:ASP:OD1	1:T:425:SER:HB3	109.61	0.52
1:U:425:SER:HB3	1:V:628:ASP:OD1	64.00	0.52
1:U:609:TRP:CH2	1:U:631:PHE:CE2	2.98	0.52
1:X:570:THR:OG1	1:X:571:THR:N	2.43	0.52
1:Y:329:ASN:CG	1:Y:330:GLU:OE1	2.48	0.52
1:Q:322:GLN:NE2	1:Y:340:THR:HB	157.04	0.52
1:Y:570:THR:OG1	1:Y:571:THR:N	2.43	0.52
1:1:570:THR:OG1	1:1:571:THR:N	2.43	0.52
1:2:254:ASN:O	1:2:255:ASN:C	2.47	0.52
1:2:609:TRP:CH2	1:2:631:PHE:CE2	2.98	0.52
1:3:609:TRP:CH2	1:3:631:PHE:CE2	2.98	0.52
1:3:503:PHE:CE2	1:4:451:THR:HG21	2.45	0.52
1:6:570:THR:OG1	1:6:571:THR:N	2.43	0.52
1:7:714:ASP:HB3	1:7:726:PRO:HG3	1.90	0.52
1:8:326:VAL:HG21	1:8:333:LYS:HZ1	1.74	0.52
1:A:609:TRP:CH2	1:A:631:PHE:CE2	2.98	0.52
1:B:609:TRP:CH2	1:B:631:PHE:CE2	2.98	0.52
1:D:583:ALA:HA	1:D:595:VAL:HG12	1.92	0.52
1:D:609:TRP:CH2	1:D:631:PHE:CE2	2.98	0.52
1:E:570:THR:OG1	1:E:571:THR:N	2.43	0.52
1:E:714:ASP:HB3	1:E:726:PRO:HG3	1.90	0.52
1:F:340:THR:CB	1:F:407:ARG:HH21	2.20	0.52
1:G:583:ALA:HA	1:G:595:VAL:HG12	1.92	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:425:SER:HB3	1:G:628:ASP:OD1	2.10	0.52
1:G:629:GLY:CA	1:H:609:TRP:CD1	67.96	0.52
1:J:329:ASN:CG	1:J:330:GLU:OE1	2.49	0.52
1:J:592:GLY:HA2	1:L:499:ASN:HD22	1.75	0.52
1:J:583:ALA:HA	1:J:595:VAL:HG12	1.92	0.52
1:J:416:TYR:OH	1:J:644:HIS:O	2.27	0.52
1:L:570:THR:OG1	1:L:571:THR:N	2.43	0.52
1:L:609:TRP:CH2	1:L:631:PHE:CE2	2.98	0.52
1:N:451:THR:HG21	1:O:503:PHE:CE2	74.84	0.52
1:O:609:TRP:CD1	1:P:629:GLY:CA	54.85	0.52
1:O:609:TRP:CH2	1:O:631:PHE:CE2	2.98	0.52
1:P:583:ALA:HA	1:P:595:VAL:HG12	1.92	0.52
1:Q:329:ASN:CG	1:Q:330:GLU:OE1	2.48	0.52
1:S:329:ASN:CG	1:S:330:GLU:OE1	2.49	0.52
1:S:439:PRO:HB3	1:U:381:LEU:HD21	1.92	0.52
1:T:499:ASN:HD22	1:V:592:GLY:HA2	132.30	0.52
1:V:609:TRP:CH2	1:V:631:PHE:CE2	2.98	0.52
1:W:329:ASN:CG	1:W:330:GLU:OE1	2.49	0.52
1:Y:609:TRP:CH2	1:Y:631:PHE:CE2	2.98	0.52
1:Z:570:THR:OG1	1:Z:571:THR:N	2.43	0.52
1:Z:416:TYR:OH	1:Z:644:HIS:O	2.27	0.52
1:4:583:ALA:HA	1:4:595:VAL:HG12	1.92	0.52
1:7:583:ALA:HA	1:7:595:VAL:HG12	1.91	0.52
1:A:329:ASN:CG	1:A:330:GLU:OE1	2.49	0.52
1:A:499:ASN:HD22	1:I:592:GLY:HA2	1.75	0.52
1:A:592:GLY:HA2	1:G:499:ASN:HD22	1.75	0.52
1:E:583:ALA:HA	1:E:595:VAL:HG12	1.91	0.52
1:F:570:THR:OG1	1:F:571:THR:N	2.43	0.52
1:F:416:TYR:OH	1:F:644:HIS:O	2.27	0.52
1:H:329:ASN:CG	1:H:330:GLU:OE1	2.49	0.52
1:A:628:ASP:OD1	1:I:425:SER:HB3	2.09	0.52
1:K:570:THR:OG1	1:K:571:THR:N	2.43	0.52
1:I:629:GLY:CA	1:K:609:TRP:CD1	110.58	0.52
1:M:425:SER:HB3	1:N:628:ASP:OD1	39.70	0.52
1:N:583:ALA:HA	1:N:595:VAL:HG12	1.92	0.52
1:N:609:TRP:CH2	1:N:631:PHE:CE2	2.98	0.52
1:O:329:ASN:CG	1:O:330:GLU:OE1	2.49	0.52
1:C:592:GLY:HA2	1:O:499:ASN:HD22	157.84	0.52
1:C:425:SER:HB3	1:O:628:ASP:OD1	139.02	0.52
1:Q:609:TRP:CH2	1:Q:631:PHE:CE2	2.98	0.52
1:R:592:GLY:HA2	1:S:499:ASN:HD22	1.75	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:T:570:THR:OG1	1:T:571:THR:N	2.43	0.52
1:R:499:ASN:HD22	1:U:592:GLY:HA2	1.75	0.52
1:T:629:GLY:CA	1:V:609:TRP:CD1	110.58	0.52
1:W:609:TRP:CD1	1:X:629:GLY:CA	67.95	0.52
1:W:609:TRP:CH2	1:W:631:PHE:CE2	2.98	0.52
1:Z:609:TRP:CH2	1:Z:631:PHE:CE2	2.98	0.52
1:2:583:ALA:HA	1:2:595:VAL:HG12	1.92	0.52
1:8:529:HIS:ND1	1:8:533:GLU:O	2.42	0.52
1:D:329:ASN:CG	1:D:330:GLU:OE1	2.49	0.52
1:A:381:LEU:HD21	1:I:439:PRO:HB3	1.92	0.52
1:J:451:THR:HG21	1:K:503:PHE:CE2	74.84	0.52
1:P:529:HIS:ND1	1:P:533:GLU:O	2.42	0.52
1:U:439:PRO:HB3	1:V:381:LEU:HD21	51.18	0.52
1:T:628:ASP:OD1	1:V:425:SER:HB3	104.94	0.52
1:W:439:PRO:HB3	1:X:381:LEU:HD21	51.17	0.52
1:X:254:ASN:O	1:X:256:HIS:N	2.43	0.52
1:E:592:GLY:HA2	1:X:499:ASN:HD22	158.89	0.52
1:Z:425:SER:HB3	1:4:628:ASP:OD1	2.09	0.52
1:Z:609:TRP:CD1	1:4:629:GLY:CA	2.85	0.52
1:Z:628:ASP:OD1	1:2:425:SER:HB3	63.15	0.52
1:2:329:ASN:CG	1:2:330:GLU:OE1	2.49	0.51
1:3:529:HIS:ND1	1:3:533:GLU:O	2.42	0.51
1:Z:451:THR:HG21	1:4:503:PHE:CE2	2.45	0.51
1:A:328:GLN:NE2	1:A:333:LYS:HG3	2.24	0.51
1:B:381:LEU:HD21	1:C:439:PRO:HB3	57.15	0.51
1:B:592:GLY:HA2	1:M:499:ASN:HD22	127.71	0.51
1:C:416:TYR:OH	1:C:644:HIS:O	2.27	0.51
1:F:628:ASP:OD1	1:Q:425:SER:HB3	2.09	0.51
1:G:381:LEU:HD21	1:H:439:PRO:HB3	51.18	0.51
1:H:609:TRP:CH2	1:H:631:PHE:CE2	2.98	0.51
1:J:254:ASN:O	1:J:255:ASN:C	2.47	0.51
1:B:592:GLY:HA2	1:J:499:ASN:HD22	1.75	0.51
1:M:329:ASN:CG	1:M:330:GLU:OE1	2.49	0.51
1:M:451:THR:HG21	1:N:503:PHE:CE2	103.39	0.51
1:M:609:TRP:CD1	1:N:629:GLY:CA	54.84	0.51
1:M:609:TRP:CH2	1:M:631:PHE:CE2	2.98	0.51
1:N:254:ASN:O	1:N:256:HIS:N	2.43	0.51
1:N:609:TRP:CD1	1:O:629:GLY:CA	67.96	0.51
1:N:425:SER:HB3	1:P:628:ASP:OD1	2.10	0.51
1:P:416:TYR:OH	1:P:644:HIS:O	2.27	0.51
1:T:592:GLY:HA2	1:U:499:ASN:HD22	104.86	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:T:609:TRP:CH2	1:T:631:PHE:CE2	2.98	0.51
1:R:629:GLY:CA	1:U:609:TRP:CD1	2.85	0.51
1:V:583:ALA:HA	1:V:595:VAL:HG12	1.92	0.51
1:X:609:TRP:CH2	1:X:631:PHE:CE2	2.98	0.51
1:Y:340:THR:CB	1:Y:407:ARG:HH21	2.20	0.51
1:Y:583:ALA:HA	1:Y:595:VAL:HG12	1.92	0.51
1:4:609:TRP:CH2	1:4:631:PHE:CE2	2.98	0.51
1:5:324:LYS:NZ	1:5:337:ASN:OD1	2.35	0.51
1:5:425:SER:HB3	1:6:628:ASP:OD1	2.09	0.51
1:6:609:TRP:CH2	1:6:631:PHE:CE2	2.98	0.51
1:K:628:ASP:OD1	1:8:425:SER:HB3	2.10	0.51
1:A:570:THR:OG1	1:A:571:THR:N	2.43	0.51
1:B:254:ASN:O	1:B:256:HIS:N	2.43	0.51
1:B:499:ASN:HD22	1:L:592:GLY:HA2	1.75	0.51
1:C:329:ASN:CG	1:C:330:GLU:OE1	2.48	0.51
1:D:526:MET:HE1	1:D:575:ALA:HA	1.93	0.51
1:E:329:ASN:CG	1:E:330:GLU:OE1	2.49	0.51
1:F:609:TRP:CH2	1:F:631:PHE:CE2	2.98	0.51
1:G:254:ASN:O	1:G:255:ASN:C	2.47	0.51
1:H:570:THR:OG1	1:H:571:THR:N	2.43	0.51
1:I:570:THR:OG1	1:I:571:THR:N	2.43	0.51
1:I:583:ALA:HA	1:I:595:VAL:HG12	1.92	0.51
1:I:381:LEU:HD21	1:K:439:PRO:HB3	81.49	0.51
1:L:329:ASN:CG	1:L:330:GLU:OE1	2.48	0.51
1:B:381:LEU:HD21	1:L:439:PRO:HB3	1.92	0.51
1:D:425:SER:HB3	1:L:628:ASP:OD1	116.06	0.51
1:O:592:GLY:HA2	1:P:499:ASN:HD22	104.87	0.51
1:D:628:ASP:OD1	1:P:425:SER:HB3	2.10	0.51
1:E:451:THR:HG21	1:Q:503:PHE:CE2	2.46	0.51
1:R:628:ASP:OD1	1:U:425:SER:HB3	2.09	0.51
1:R:609:TRP:CH2	1:R:631:PHE:CE2	2.98	0.51
1:T:329:ASN:CG	1:T:330:GLU:OE1	2.49	0.51
1:U:329:ASN:CG	1:U:330:GLU:OE1	2.49	0.51
1:V:329:ASN:CG	1:V:330:GLU:OE1	2.48	0.51
1:4:254:ASN:O	1:4:256:HIS:N	2.43	0.51
1:4:570:THR:OG1	1:4:571:THR:N	2.43	0.51
1:5:503:PHE:CE2	1:7:451:THR:HG21	2.46	0.51
1:5:529:HIS:ND1	1:5:533:GLU:O	2.42	0.51
1:7:329:ASN:CG	1:7:330:GLU:OE1	2.49	0.51
1:A:425:SER:HB3	1:8:628:ASP:OD1	127.16	0.51
1:B:499:ASN:HD22	1:C:592:GLY:HA2	104.85	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:570:THR:OG1	1:B:571:THR:N	2.43	0.51
1:E:628:ASP:OD1	1:V:425:SER:HB3	104.11	0.51
1:F:451:THR:HG21	1:H:503:PHE:CE2	155.25	0.51
1:G:592:GLY:HA2	1:I:499:ASN:HD22	1.75	0.51
1:J:609:TRP:CH2	1:J:631:PHE:CE2	2.98	0.51
1:I:628:ASP:OD1	1:K:425:SER:HB3	104.94	0.51
1:L:254:ASN:O	1:L:255:ASN:C	2.47	0.51
1:N:570:THR:OG1	1:N:571:THR:N	2.43	0.51
1:C:439:PRO:HB3	1:O:381:LEU:HD21	166.95	0.51
1:P:254:ASN:O	1:P:255:ASN:C	2.47	0.51
1:R:328:GLN:NE2	1:R:333:LYS:HG3	2.24	0.51
1:S:570:THR:OG1	1:S:571:THR:N	2.43	0.51
1:U:609:TRP:NE1	1:V:629:GLY:CA	68.75	0.51
1:W:592:GLY:HA2	1:Y:499:ASN:HD22	1.75	0.51
1:3:254:ASN:O	1:3:256:HIS:N	2.43	0.51
1:3:499:ASN:HD22	1:4:592:GLY:HA2	1.76	0.51
1:6:329:ASN:CG	1:6:330:GLU:OE1	2.49	0.51
1:6:439:PRO:HB3	1:7:381:LEU:HD21	1.92	0.51
1:7:254:ASN:O	1:7:255:ASN:C	2.47	0.51
1:8:329:ASN:CG	1:8:330:GLU:OE1	2.48	0.51
1:D:416:TYR:OH	1:D:644:HIS:O	2.27	0.51
1:G:328:GLN:NE2	1:G:333:LYS:HG3	2.24	0.51
1:I:329:ASN:CG	1:I:330:GLU:OE1	2.49	0.51
1:N:592:GLY:HA2	1:P:499:ASN:HD22	1.75	0.51
1:P:329:ASN:CG	1:P:330:GLU:OE1	2.49	0.51
1:Q:592:GLY:HA2	1:R:499:ASN:HD22	81.02	0.51
1:W:583:ALA:O	1:X:487:ARG:HD2	80.57	0.51
1:E:451:THR:HG21	1:X:503:PHE:CE2	156.10	0.51
1:2:416:TYR:OH	1:2:644:HIS:O	2.27	0.51
1:6:340:THR:CB	1:6:407:ARG:HH21	2.21	0.51
1:5:381:LEU:HD21	1:7:439:PRO:HB3	1.93	0.51
1:7:609:TRP:CH2	1:7:631:PHE:CE2	2.98	0.51
1:B:329:ASN:CG	1:B:330:GLU:OE1	2.49	0.51
1:C:286:ASP:O	1:C:364:CYS:HA	2.11	0.51
1:C:499:ASN:HD22	1:P:592:GLY:HA2	83.00	0.51
1:E:381:LEU:HD21	1:F:439:PRO:HB3	1.92	0.51
1:E:503:PHE:CE2	1:F:451:THR:HG21	2.45	0.51
1:G:434:ASP:OD1	1:G:434:ASP:N	2.41	0.51
1:G:570:THR:OG1	1:G:571:THR:N	2.43	0.51
1:I:286:ASP:O	1:I:364:CYS:HA	2.11	0.51
1:I:328:GLN:NE2	1:I:333:LYS:HG3	2.24	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:570:THR:OG1	1:J:571:THR:N	2.43	0.51
1:M:381:LEU:HD21	1:O:439:PRO:HB3	81.48	0.51
1:N:329:ASN:CG	1:N:330:GLU:OE1	2.48	0.51
1:N:592:GLY:HA2	1:O:499:ASN:HD22	81.02	0.51
1:O:429:HIS:NE2	1:P:627:THR:HG22	43.01	0.51
1:O:570:THR:OG1	1:O:571:THR:N	2.43	0.51
1:Q:286:ASP:O	1:Q:364:CYS:HA	2.11	0.51
1:E:439:PRO:HB3	1:Q:381:LEU:HD21	1.93	0.51
1:Q:451:THR:HG21	1:R:503:PHE:CE2	74.84	0.51
1:T:451:THR:HG21	1:U:503:PHE:CE2	103.39	0.51
1:V:328:GLN:NE2	1:V:333:LYS:HG3	2.24	0.51
1:W:451:THR:HG21	1:Y:503:PHE:CE2	2.46	0.51
1:X:329:ASN:CG	1:X:330:GLU:OE1	2.49	0.51
1:T:407:ARG:HD3	1:Y:224:SER:O	112.65	0.51
1:Z:329:ASN:CG	1:Z:330:GLU:OE1	2.48	0.51
1:Z:381:LEU:HD21	1:3:439:PRO:HB3	1.93	0.51
1:Z:451:THR:HG21	1:1:503:PHE:CE2	95.07	0.51
1:1:583:ALA:HA	1:1:595:VAL:HG12	1.92	0.51
1:1:609:TRP:CH2	1:1:631:PHE:CE2	2.98	0.51
1:4:286:ASP:O	1:4:364:CYS:HA	2.11	0.51
1:5:286:ASP:O	1:5:364:CYS:HA	2.11	0.51
1:5:609:TRP:CH2	1:5:631:PHE:CE2	2.98	0.51
1:6:286:ASP:O	1:6:364:CYS:HA	2.11	0.51
1:8:254:ASN:O	1:8:255:ASN:C	2.47	0.51
1:A:592:GLY:HA2	1:8:499:ASN:HD22	177.57	0.51
1:A:286:ASP:O	1:A:364:CYS:HA	2.11	0.51
1:E:609:TRP:CH2	1:E:631:PHE:CE2	2.98	0.51
1:G:628:ASP:OD1	1:H:425:SER:HB3	64.00	0.51
1:H:583:ALA:HA	1:H:595:VAL:HG12	1.92	0.51
1:K:609:TRP:CH2	1:K:631:PHE:CE2	2.98	0.51
1:B:439:PRO:HB3	1:M:381:LEU:HD21	136.86	0.51
1:B:429:HIS:NE2	1:M:627:THR:HG22	100.44	0.51
1:O:286:ASP:O	1:O:364:CYS:HA	2.11	0.51
1:E:592:GLY:HA2	1:Q:499:ASN:HD22	1.75	0.51
1:F:499:ASN:HD22	1:Q:592:GLY:HA2	1.75	0.51
1:S:286:ASP:O	1:S:364:CYS:HA	2.11	0.51
1:U:429:HIS:NE2	1:V:627:THR:HG22	60.08	0.51
1:R:381:LEU:HD21	1:U:439:PRO:HB3	1.93	0.51
1:S:429:HIS:NE2	1:U:627:THR:HG22	2.26	0.51
1:V:627:THR:HG22	1:X:429:HIS:NE2	2.26	0.51
1:Y:251:PRO:HG3	1:Y:374:MET:HE3	1.97	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Z:503:PHE:CE2	1:2:451:THR:HG21	111.45	0.51
1:Z:503:PHE:CE2	1:3:451:THR:HG21	2.46	0.51
1:4:329:ASN:CG	1:4:330:GLU:OE1	2.49	0.51
1:4:324:LYS:NZ	1:4:337:ASN:OD1	2.35	0.51
1:5:499:ASN:HD22	1:7:592:GLY:HA2	1.75	0.51
1:5:592:GLY:HA2	1:6:499:ASN:HD22	1.75	0.51
1:6:451:THR:HG21	1:7:503:PHE:CE2	2.45	0.51
1:8:609:TRP:CH2	1:8:631:PHE:CE2	2.98	0.51
1:A:503:PHE:CE2	1:I:451:THR:HG21	2.46	0.51
1:B:286:ASP:O	1:B:364:CYS:HA	2.11	0.51
1:B:429:HIS:NE2	1:J:627:THR:HG22	2.26	0.51
1:D:381:LEU:HD21	1:P:439:PRO:HB3	1.93	0.51
1:F:286:ASP:O	1:F:364:CYS:HA	2.11	0.51
1:G:609:TRP:CH2	1:G:631:PHE:CE2	2.98	0.51
1:B:439:PRO:HB3	1:J:381:LEU:HD21	1.92	0.51
1:K:329:ASN:CG	1:K:330:GLU:OE1	2.49	0.51
1:M:503:PHE:CE2	1:O:451:THR:HG21	119.84	0.51
1:N:286:ASP:O	1:N:364:CYS:HA	2.11	0.51
1:C:451:THR:HG21	1:O:503:PHE:CE2	157.51	0.51
1:P:609:TRP:CH2	1:P:631:PHE:CE2	2.98	0.51
1:Q:429:HIS:NE2	1:R:627:THR:HG22	60.08	0.51
1:L:439:PRO:HB3	1:T:381:LEU:HD21	209.69	0.51
1:U:254:ASN:O	1:U:255:ASN:C	2.47	0.51
1:U:286:ASP:O	1:U:364:CYS:HA	2.11	0.51
1:V:224:SER:O	1:W:407:ARG:HD3	20.75	0.51
1:V:286:ASP:O	1:V:364:CYS:HA	2.11	0.51
1:T:381:LEU:HD21	1:V:439:PRO:HB3	81.47	0.51
1:T:503:PHE:CE2	1:V:451:THR:HG21	119.82	0.51
1:V:628:ASP:OD1	1:X:425:SER:HB3	2.10	0.51
1:Y:328:GLN:NE2	1:Y:333:LYS:HG3	2.24	0.51
1:Z:286:ASP:O	1:Z:364:CYS:HA	2.11	0.51
1:Z:439:PRO:HB3	1:1:381:LEU:HD21	101.32	0.51
1:3:286:ASP:O	1:3:364:CYS:HA	2.11	0.51
1:Z:627:THR:HG22	1:3:429:HIS:NE2	2.26	0.51
1:Z:499:ASN:HD22	1:3:592:GLY:HA2	1.75	0.51
1:3:627:THR:HG22	1:4:429:HIS:NE2	2.26	0.51
1:4:490:ARG:HB2	1:4:576:THR:HB	1.93	0.51
1:5:329:ASN:CG	1:5:330:GLU:OE1	2.48	0.51
1:6:592:GLY:HA2	1:7:499:ASN:HD22	1.75	0.51
1:B:503:PHE:CE2	1:L:451:THR:HG21	2.46	0.51
1:C:627:THR:HG22	1:M:429:HIS:NE2	2.26	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:451:THR:HG21	1:L:503:PHE:CE2	155.25	0.51
1:E:499:ASN:HD22	1:F:592:GLY:HA2	1.75	0.51
1:F:627:THR:HG22	1:Q:429:HIS:NE2	2.26	0.51
1:H:286:ASP:O	1:H:364:CYS:HA	2.11	0.51
1:J:429:HIS:NE2	1:L:627:THR:HG22	2.26	0.51
1:K:286:ASP:O	1:K:364:CYS:HA	2.11	0.51
1:K:381:LEU:HD21	1:8:439:PRO:HB3	1.93	0.51
1:L:286:ASP:O	1:L:364:CYS:HA	2.11	0.51
1:L:451:THR:HG21	1:T:503:PHE:CE2	234.86	0.51
1:R:429:HIS:NE2	1:S:627:THR:HG22	2.26	0.51
1:R:451:THR:HG21	1:S:503:PHE:CE2	2.46	0.51
1:R:503:PHE:CE2	1:U:451:THR:HG21	2.46	0.51
1:S:592:GLY:HA2	1:U:499:ASN:HD22	1.75	0.51
1:T:439:PRO:HB3	1:U:381:LEU:HD21	57.16	0.51
1:U:592:GLY:HA2	1:V:499:ASN:HD22	81.01	0.51
1:E:381:LEU:HD21	1:V:439:PRO:HB3	150.55	0.51
1:W:429:HIS:NE2	1:Y:627:THR:HG22	2.26	0.51
1:W:609:TRP:CD1	1:Y:629:GLY:CA	2.85	0.51
1:Z:429:HIS:NE2	1:I:627:THR:HG22	89.17	0.51
1:5:328:GLN:NE2	1:5:333:LYS:HG3	2.24	0.51
1:5:429:HIS:NE2	1:6:627:THR:HG22	2.26	0.51
1:B:503:PHE:CE2	1:C:451:THR:HG21	103.38	0.51
1:C:503:PHE:CE2	1:P:451:THR:HG21	72.83	0.51
1:F:592:GLY:HA2	1:H:499:ASN:HD22	158.62	0.51
1:G:286:ASP:O	1:G:364:CYS:HA	2.11	0.51
1:G:451:THR:HG21	1:I:503:PHE:CE2	2.46	0.51
1:G:503:PHE:CE2	1:H:451:THR:HG21	74.85	0.51
1:H:490:ARG:HB2	1:H:576:THR:HB	1.93	0.51
1:H:627:THR:HG22	1:Y:429:HIS:NE2	2.26	0.51
1:G:439:PRO:HB3	1:I:381:LEU:HD21	1.93	0.51
1:I:439:PRO:HB3	1:J:381:LEU:HD21	57.15	0.51
1:J:429:HIS:NE2	1:K:627:THR:HG22	60.07	0.51
1:J:609:TRP:CD1	1:K:629:GLY:CA	67.95	0.51
1:I:627:THR:HG22	1:K:429:HIS:NE2	99.35	0.51
1:A:503:PHE:CE2	1:K:451:THR:HG21	153.24	0.51
1:I:503:PHE:CE2	1:K:451:THR:HG21	119.83	0.51
1:L:429:HIS:NE2	1:T:627:THR:HG22	194.04	0.51
1:L:490:ARG:HB2	1:L:576:THR:HB	1.93	0.51
1:M:416:TYR:OH	1:M:644:HIS:O	2.27	0.51
1:N:490:ARG:HB2	1:N:576:THR:HB	1.93	0.51
1:M:627:THR:HG22	1:O:429:HIS:NE2	99.35	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:499:ASN:HD22	1:O:592:GLY:HA2	132.32	0.51
1:N:429:HIS:NE2	1:O:627:THR:HG22	60.08	0.51
1:P:286:ASP:O	1:P:364:CYS:HA	2.11	0.51
1:Q:570:THR:OG1	1:Q:571:THR:N	2.43	0.51
1:R:439:PRO:HB3	1:S:381:LEU:HD21	1.92	0.51
1:Q:503:PHE:CE2	1:S:451:THR:HG21	98.75	0.51
1:U:451:THR:HG21	1:V:503:PHE:CE2	74.84	0.51
1:H:439:PRO:HB3	1:W:381:LEU:HD21	1.92	0.51
1:X:254:ASN:O	1:X:255:ASN:C	2.47	0.51
1:X:429:HIS:NE2	1:Y:627:THR:HG22	43.01	0.51
1:Z:490:ARG:HB2	1:Z:576:THR:HB	1.93	0.51
1:3:629:GLY:CA	1:4:609:TRP:NE1	2.58	0.51
1:7:490:ARG:HB2	1:7:576:THR:HB	1.93	0.51
1:8:286:ASP:O	1:8:364:CYS:HA	2.11	0.51
1:C:307:TRP:O	1:C:426:SER:CB	2.59	0.51
1:C:381:LEU:HD21	1:P:439:PRO:HB3	49.07	0.51
1:G:329:ASN:CG	1:G:330:GLU:OE1	2.49	0.51
1:F:381:LEU:HD21	1:G:439:PRO:HB3	104.33	0.51
1:G:627:THR:HG22	1:H:429:HIS:NE2	60.08	0.51
1:F:429:HIS:NE2	1:H:627:THR:HG22	119.77	0.51
1:J:286:ASP:O	1:J:364:CYS:HA	2.11	0.51
1:J:592:GLY:HA2	1:K:499:ASN:HD22	81.02	0.51
1:K:490:ARG:HB2	1:K:576:THR:HB	1.93	0.51
1:L:307:TRP:O	1:L:426:SER:CB	2.59	0.51
1:J:439:PRO:HB3	1:L:381:LEU:HD21	1.93	0.51
1:J:451:THR:HG21	1:L:503:PHE:CE2	2.46	0.51
1:M:328:GLN:NE2	1:M:333:LYS:HG3	2.24	0.51
1:D:451:THR:HG21	1:N:503:PHE:CE2	2.46	0.51
1:N:609:TRP:NE1	1:P:629:GLY:CA	2.58	0.51
1:P:490:ARG:HB2	1:P:576:THR:HB	1.93	0.51
1:Q:346:PHE:HB3	1:Q:403:SER:HA	1.93	0.51
1:Q:439:PRO:HB3	1:R:381:LEU:HD21	51.18	0.51
1:F:503:PHE:CE2	1:Q:451:THR:HG21	2.46	0.51
1:S:346:PHE:HB3	1:S:403:SER:HA	1.93	0.51
1:Q:381:LEU:HD21	1:S:439:PRO:HB3	104.34	0.51
1:T:490:ARG:HB2	1:T:576:THR:HB	1.93	0.51
1:U:526:MET:HE1	1:U:575:ALA:HA	1.96	0.51
1:V:503:PHE:CE2	1:X:451:THR:HG21	2.46	0.51
1:W:439:PRO:HB3	1:Y:381:LEU:HD21	1.93	0.51
1:2:307:TRP:O	1:2:426:SER:CB	2.59	0.50
1:3:490:ARG:HB2	1:3:576:THR:HB	1.93	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:5:346:PHE:HB3	1:5:403:SER:HA	1.93	0.50
1:5:451:THR:HG21	1:6:503:PHE:CE2	2.46	0.50
1:8:490:ARG:HB2	1:8:576:THR:HB	1.93	0.50
1:A:346:PHE:HB3	1:A:403:SER:HA	1.93	0.50
1:A:439:PRO:HB3	1:8:381:LEU:HD21	165.99	0.50
1:A:609:TRP:NE1	1:8:629:GLY:CA	126.27	0.50
1:C:503:PHE:CE2	1:M:451:THR:HG21	2.46	0.50
1:C:490:ARG:HB2	1:C:576:THR:HB	1.93	0.50
1:D:307:TRP:O	1:D:426:SER:CB	2.59	0.50
1:E:609:TRP:CD1	1:Q:629:GLY:CA	2.85	0.50
1:H:451:THR:HG21	1:W:503:PHE:CE2	2.45	0.50
1:M:286:ASP:O	1:M:364:CYS:HA	2.11	0.50
1:C:381:LEU:HD21	1:M:439:PRO:HB3	1.93	0.50
1:M:439:PRO:HB3	1:N:381:LEU:HD21	57.15	0.50
1:N:439:PRO:HB3	1:P:381:LEU:HD21	1.93	0.50
1:R:286:ASP:O	1:R:364:CYS:HA	2.11	0.50
1:S:254:ASN:O	1:S:255:ASN:C	2.47	0.50
1:S:451:THR:HG21	1:U:503:PHE:CE2	2.45	0.50
1:T:286:ASP:O	1:T:364:CYS:HA	2.11	0.50
1:Y:286:ASP:O	1:Y:364:CYS:HA	2.11	0.50
1:H:503:PHE:CE2	1:Y:451:THR:HG21	2.45	0.50
1:Z:592:GLY:HA2	1:1:499:ASN:HD22	99.25	0.50
1:2:346:PHE:HB3	1:2:403:SER:HA	1.93	0.50
1:3:329:ASN:CG	1:3:330:GLU:OE1	2.49	0.50
1:5:570:THR:OG1	1:5:571:THR:N	2.43	0.50
1:5:629:GLY:CA	1:7:609:TRP:CD1	2.85	0.50
1:B:451:THR:HG21	1:M:503:PHE:CE2	133.76	0.50
1:B:416:TYR:OH	1:B:644:HIS:O	2.27	0.50
1:C:609:TRP:CD1	1:O:629:GLY:CA	133.45	0.50
1:D:346:PHE:HB3	1:D:403:SER:HA	1.93	0.50
1:D:429:HIS:NE2	1:L:627:THR:HG22	119.77	0.50
1:D:503:PHE:CE2	1:T:451:THR:HG21	149.88	0.50
1:E:490:ARG:HB2	1:E:576:THR:HB	1.93	0.50
1:F:609:TRP:CD1	1:H:629:GLY:CA	119.77	0.50
1:F:503:PHE:CE2	1:G:451:THR:HG21	98.75	0.50
1:G:490:ARG:HB2	1:G:576:THR:HB	1.93	0.50
1:H:346:PHE:HB3	1:H:403:SER:HA	1.93	0.50
1:I:451:THR:HG21	1:J:503:PHE:CE2	103.38	0.50
1:I:490:ARG:HB2	1:I:576:THR:HB	1.93	0.50
1:B:451:THR:HG21	1:J:503:PHE:CE2	2.46	0.50
1:K:346:PHE:HB3	1:K:403:SER:HA	1.93	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:499:ASN:HD22	1:K:592:GLY:HA2	160.85	0.50
1:C:429:HIS:NE2	1:O:627:THR:HG22	143.29	0.50
1:Q:251:PRO:HG3	1:Q:374:MET:HE3	1.97	0.50
1:S:490:ARG:HB2	1:S:576:THR:HB	1.94	0.50
1:D:627:THR:HG22	1:T:429:HIS:NE2	114.59	0.50
1:X:346:PHE:HB3	1:X:403:SER:HA	1.94	0.50
1:Z:627:THR:HG22	1:2:429:HIS:NE2	70.99	0.50
1:1:340:THR:HB	1:1:407:ARG:NH2	2.27	0.50
1:1:439:PRO:HB3	1:2:381:LEU:HD21	1.93	0.50
1:1:451:THR:HG21	1:2:503:PHE:CE2	2.46	0.50
1:1:429:HIS:NE2	1:2:627:THR:HG22	2.26	0.50
1:3:416:TYR:OH	1:3:644:HIS:O	2.27	0.50
1:4:340:THR:CB	1:4:407:ARG:HH21	2.21	0.50
1:6:324:LYS:NZ	1:6:337:ASN:OD1	2.35	0.50
1:7:340:THR:HB	1:7:407:ARG:NH2	2.27	0.50
1:8:346:PHE:HB3	1:8:403:SER:HA	1.93	0.50
1:8:583:ALA:HA	1:8:595:VAL:HG12	1.92	0.50
1:D:381:LEU:HD21	1:T:439:PRO:HB3	122.62	0.50
1:E:439:PRO:HB3	1:X:381:LEU:HD21	165.80	0.50
1:H:340:THR:HB	1:H:407:ARG:NH2	2.27	0.50
1:I:499:ASN:HD22	1:K:592:GLY:HA2	132.32	0.50
1:L:592:GLY:HA2	1:T:499:ASN:HD22	246.32	0.50
1:O:346:PHE:HB3	1:O:403:SER:HA	1.93	0.50
1:O:490:ARG:HB2	1:O:576:THR:HB	1.94	0.50
1:P:328:GLN:NE2	1:P:333:LYS:HG3	2.24	0.50
1:P:346:PHE:HB3	1:P:403:SER:HA	1.93	0.50
1:Q:609:TRP:CD1	1:R:629:GLY:CA	67.96	0.50
1:R:490:ARG:HB2	1:R:576:THR:HB	1.94	0.50
1:S:340:THR:HB	1:S:407:ARG:NH2	2.27	0.50
1:T:340:THR:HB	1:T:407:ARG:NH2	2.27	0.50
1:W:286:ASP:O	1:W:364:CYS:HA	2.11	0.50
1:W:490:ARG:NH1	1:Y:586:LEU:HD21	33.69	0.50
1:Z:439:PRO:HB3	1:4:381:LEU:HD21	1.92	0.50
1:4:340:THR:HB	1:4:407:ARG:NH2	2.27	0.50
1:7:346:PHE:HB3	1:7:403:SER:HA	1.93	0.50
1:7:570:THR:OG1	1:7:571:THR:N	2.43	0.50
1:A:340:THR:HB	1:A:407:ARG:NH2	2.27	0.50
1:A:490:ARG:HB2	1:A:576:THR:HB	1.93	0.50
1:B:346:PHE:HB3	1:B:403:SER:HA	1.93	0.50
1:E:340:THR:HB	1:E:407:ARG:NH2	2.27	0.50
1:E:627:THR:HG22	1:F:429:HIS:NE2	2.26	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:499:ASN:HD22	1:H:592:GLY:HA2	81.02	0.50
1:A:429:HIS:NE2	1:G:627:THR:HG22	2.27	0.50
1:H:328:GLN:NE2	1:H:333:LYS:HG3	2.24	0.50
1:F:425:SER:HB3	1:H:628:ASP:OD1	116.06	0.50
1:J:425:SER:HB3	1:K:628:ASP:OD1	64.00	0.50
1:I:429:HIS:NE2	1:J:627:THR:HG22	43.01	0.50
1:D:592:GLY:HA2	1:N:499:ASN:HD22	1.75	0.50
1:R:416:TYR:OH	1:R:644:HIS:O	2.27	0.50
1:W:636:LEU:HD11	1:Y:481:LEU:CD1	23.78	0.50
1:X:490:ARG:HB2	1:X:576:THR:HB	1.93	0.50
1:1:329:ASN:CG	1:1:330:GLU:OE1	2.49	0.50
1:2:286:ASP:O	1:2:364:CYS:HA	2.11	0.50
1:2:340:THR:CB	1:2:407:ARG:HH21	2.20	0.50
1:Z:429:HIS:NE2	1:4:627:THR:HG22	2.26	0.50
1:6:429:HIS:NE2	1:7:627:THR:HG22	2.26	0.50
1:8:340:THR:HB	1:8:407:ARG:NH2	2.27	0.50
1:A:451:THR:HG21	1:8:503:PHE:CE2	177.35	0.50
1:A:439:PRO:HB3	1:G:381:LEU:HD21	1.92	0.50
1:D:592:GLY:HA2	1:L:499:ASN:HD22	158.62	0.50
1:E:286:ASP:O	1:E:364:CYS:HA	2.11	0.50
1:E:346:PHE:HB3	1:E:403:SER:HA	1.93	0.50
1:F:627:THR:HG22	1:G:429:HIS:NE2	88.21	0.50
1:H:592:GLY:HA2	1:W:499:ASN:HD22	1.76	0.50
1:J:340:THR:HB	1:J:407:ARG:NH2	2.27	0.50
1:K:328:GLN:NE2	1:K:333:LYS:HG3	2.24	0.50
1:M:592:GLY:HA2	1:N:499:ASN:HD22	104.86	0.50
1:N:328:GLN:NE2	1:N:333:LYS:HG3	2.24	0.50
1:N:340:THR:HB	1:N:407:ARG:NH2	2.27	0.50
1:N:439:PRO:HB3	1:O:381:LEU:HD21	51.17	0.50
1:N:429:HIS:NE2	1:P:627:THR:HG22	2.26	0.50
1:Q:490:ARG:HB2	1:Q:576:THR:HB	1.94	0.50
1:U:346:PHE:HB3	1:U:403:SER:HA	1.93	0.50
1:U:490:ARG:HB2	1:U:576:THR:HB	1.93	0.50
1:W:490:ARG:HB2	1:W:576:THR:HB	1.93	0.50
1:E:429:HIS:NE2	1:X:627:THR:HG22	143.65	0.50
1:Z:381:LEU:HD21	1:2:439:PRO:HB3	93.28	0.50
1:3:381:LEU:HD21	1:4:439:PRO:HB3	1.92	0.50
1:5:429:HIS:NE2	1:5:610:GLN:OE1	2.45	0.50
1:6:416:TYR:OH	1:6:644:HIS:O	2.27	0.50
1:7:286:ASP:O	1:7:364:CYS:HA	2.11	0.50
1:7:324:LYS:NZ	1:7:337:ASN:OD1	2.35	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:8:328:GLN:NE2	1:8:333:LYS:HG3	2.24	0.50
1:B:627:THR:HG22	1:C:429:HIS:NE2	43.01	0.50
1:E:627:THR:HG22	1:V:429:HIS:NE2	116.74	0.50
1:F:439:PRO:HB3	1:H:381:LEU:HD21	134.63	0.50
1:G:346:PHE:HB3	1:G:403:SER:HA	1.93	0.50
1:J:439:PRO:HB3	1:K:381:LEU:HD21	51.17	0.50
1:K:340:THR:HB	1:K:407:ARG:NH2	2.27	0.50
1:M:429:HIS:NE2	1:N:627:THR:HG22	43.01	0.50
1:N:451:THR:HG21	1:P:503:PHE:CE2	2.46	0.50
1:P:340:THR:HB	1:P:407:ARG:NH2	2.27	0.50
1:T:346:PHE:HB3	1:T:403:SER:HA	1.93	0.50
1:V:499:ASN:HD22	1:X:592:GLY:HA2	1.75	0.50
1:V:490:ARG:HB2	1:V:576:THR:HB	1.93	0.50
1:X:315:ASN:OD1	1:X:316:PHE:N	2.45	0.50
1:X:425:SER:HB3	1:Y:628:ASP:OD1	39.71	0.50
1:Z:499:ASN:HD22	1:2:592:GLY:HA2	112.77	0.50
1:5:416:TYR:OH	1:5:644:HIS:O	2.27	0.50
1:5:300:GLN:NE2	1:5:703:TYR:O	2.45	0.50
1:7:315:ASN:OD1	1:7:316:PHE:N	2.45	0.50
1:A:429:HIS:NE2	1:8:627:THR:HG22	137.45	0.50
1:D:286:ASP:O	1:D:364:CYS:HA	2.11	0.50
1:E:315:ASN:OD1	1:E:316:PHE:N	2.45	0.50
1:F:315:ASN:OD1	1:F:316:PHE:N	2.45	0.50
1:F:346:PHE:HB3	1:F:403:SER:HA	1.93	0.50
1:G:429:HIS:NE2	1:I:627:THR:HG22	2.26	0.50
1:H:315:ASN:OD1	1:H:316:PHE:N	2.45	0.50
1:I:346:PHE:HB3	1:I:403:SER:HA	1.93	0.50
1:K:315:ASN:OD1	1:K:316:PHE:N	2.45	0.50
1:D:439:PRO:HB3	1:L:381:LEU:HD21	134.63	0.50
1:M:315:ASN:OD1	1:M:316:PHE:N	2.45	0.50
1:N:346:PHE:HB3	1:N:403:SER:HA	1.93	0.50
1:D:429:HIS:NE2	1:N:627:THR:HG22	2.26	0.50
1:Q:340:THR:HB	1:Q:407:ARG:NH2	2.27	0.50
1:Q:429:HIS:NE2	1:Q:610:GLN:OE1	2.45	0.50
1:R:346:PHE:HB3	1:R:403:SER:HA	1.93	0.50
1:U:340:THR:HB	1:U:407:ARG:NH2	2.27	0.50
1:V:315:ASN:OD1	1:V:316:PHE:N	2.45	0.50
1:V:346:PHE:HB3	1:V:403:SER:HA	1.93	0.50
1:X:340:THR:HB	1:X:407:ARG:NH2	2.27	0.50
1:Y:315:ASN:OD1	1:Y:316:PHE:N	2.45	0.50
1:H:499:ASN:HD22	1:Y:592:GLY:HA2	1.75	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Y:416:TYR:OH	1:Y:644:HIS:O	2.27	0.50
1:Z:592:GLY:HA2	1:4:499:ASN:HD22	1.75	0.50
1:4:328:GLN:NE2	1:4:333:LYS:HG3	2.24	0.50
1:5:340:THR:HB	1:5:407:ARG:NH2	2.27	0.50
1:6:346:PHE:HB3	1:6:403:SER:HA	1.93	0.50
1:A:627:THR:HG22	1:K:429:HIS:NE2	96.75	0.50
1:B:340:THR:HB	1:B:407:ARG:NH2	2.27	0.50
1:B:627:THR:HG22	1:L:429:HIS:NE2	2.26	0.50
1:E:425:SER:HB3	1:X:628:ASP:OD1	138.48	0.50
1:F:340:THR:HB	1:F:407:ARG:NH2	2.27	0.50
1:F:490:ARG:HB2	1:F:576:THR:HB	1.94	0.50
1:J:315:ASN:OD1	1:J:316:PHE:N	2.45	0.50
1:K:627:THR:HG22	1:8:429:HIS:NE2	2.26	0.50
1:M:490:ARG:HB2	1:M:576:THR:HB	1.93	0.50
1:C:627:THR:HG22	1:P:429:HIS:NE2	63.56	0.50
1:F:381:LEU:HD21	1:Q:439:PRO:HB3	1.92	0.50
1:Q:499:ASN:HD22	1:S:592:GLY:HA2	96.49	0.50
1:S:315:ASN:OD1	1:S:316:PHE:N	2.45	0.50
1:S:609:TRP:CD1	1:U:629:GLY:CA	2.85	0.50
1:U:315:ASN:OD1	1:U:316:PHE:N	2.45	0.50
1:W:315:ASN:OD1	1:W:316:PHE:N	2.45	0.50
1:V:381:LEU:HD21	1:X:439:PRO:HB3	1.93	0.50
1:Z:346:PHE:HB3	1:Z:403:SER:HA	1.93	0.50
1:Z:429:HIS:NE2	1:Z:610:GLN:OE1	2.45	0.50
1:1:315:ASN:OD1	1:1:316:PHE:N	2.45	0.50
1:1:490:ARG:HB2	1:1:576:THR:HB	1.93	0.50
1:6:490:ARG:HB2	1:6:576:THR:HB	1.94	0.50
1:7:429:HIS:NE2	1:7:610:GLN:OE1	2.45	0.50
1:A:627:THR:HG22	1:I:429:HIS:NE2	2.27	0.50
1:B:429:HIS:NE2	1:B:610:GLN:OE1	2.45	0.50
1:C:340:THR:HB	1:C:407:ARG:NH2	2.27	0.50
1:D:627:THR:HG22	1:P:429:HIS:NE2	2.26	0.50
1:E:429:HIS:NE2	1:E:610:GLN:OE1	2.45	0.50
1:E:609:TRP:NE1	1:X:629:GLY:CA	133.07	0.50
1:H:307:TRP:O	1:H:426:SER:CB	2.59	0.50
1:L:315:ASN:OD1	1:L:316:PHE:N	2.45	0.50
1:M:429:HIS:NE2	1:M:610:GLN:OE1	2.45	0.50
1:O:451:THR:HG21	1:P:503:PHE:CE2	103.39	0.50
1:Q:300:GLN:NE2	1:Q:703:TYR:O	2.45	0.50
1:T:315:ASN:OD1	1:T:316:PHE:N	2.45	0.50
1:V:340:THR:HB	1:V:407:ARG:NH2	2.27	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:T:627:THR:HG22	1:V:429:HIS:NE2	99.34	0.50
1:V:629:GLY:CA	1:X:609:TRP:CD1	2.85	0.50
1:Z:328:GLN:NE2	1:Z:333:LYS:HG3	2.24	0.50
1:3:570:THR:OG1	1:3:571:THR:N	2.43	0.49
1:5:490:ARG:HB2	1:5:576:THR:HB	1.94	0.49
1:5:439:PRO:HB3	1:6:381:LEU:HD21	1.92	0.49
1:B:300:GLN:NE2	1:B:703:TYR:O	2.45	0.49
1:C:315:ASN:OD1	1:C:316:PHE:N	2.45	0.49
1:G:315:ASN:OD1	1:G:316:PHE:N	2.45	0.49
1:H:429:HIS:NE2	1:H:610:GLN:OE1	2.45	0.49
1:I:315:ASN:OD1	1:I:316:PHE:N	2.45	0.49
1:K:307:TRP:O	1:K:426:SER:CB	2.59	0.49
1:K:429:HIS:NE2	1:K:610:GLN:OE1	2.45	0.49
1:L:346:PHE:HB3	1:L:403:SER:HA	1.93	0.49
1:M:346:PHE:HB3	1:M:403:SER:HA	1.94	0.49
1:O:340:THR:HB	1:O:407:ARG:NH2	2.27	0.49
1:O:439:PRO:HB3	1:P:381:LEU:HD21	57.15	0.49
1:P:315:ASN:OD1	1:P:316:PHE:N	2.45	0.49
1:R:315:ASN:OD1	1:R:316:PHE:N	2.45	0.49
1:T:526:MET:HE1	1:T:575:ALA:HA	1.93	0.49
1:U:609:TRP:CD1	1:V:629:GLY:CA	67.95	0.49
1:T:429:HIS:NE2	1:U:627:THR:HG22	43.01	0.49
1:V:300:GLN:NE2	1:V:703:TYR:O	2.45	0.49
1:W:307:TRP:O	1:W:426:SER:CB	2.59	0.49
1:W:340:THR:HB	1:W:407:ARG:NH2	2.27	0.49
1:W:300:GLN:NE2	1:W:703:TYR:O	2.45	0.49
1:Y:340:THR:HB	1:Y:407:ARG:NH2	2.27	0.49
1:3:340:THR:HB	1:3:407:ARG:NH2	2.27	0.49
1:5:609:TRP:CD1	1:6:629:GLY:CA	2.85	0.49
1:6:429:HIS:NE2	1:6:610:GLN:OE1	2.45	0.49
1:8:315:ASN:OD1	1:8:316:PHE:N	2.45	0.49
1:E:429:HIS:NE2	1:Q:627:THR:HG22	2.26	0.49
1:G:429:HIS:NE2	1:G:610:GLN:OE1	2.45	0.49
1:H:434:ASP:OD1	1:H:434:ASP:N	2.41	0.49
1:I:340:THR:HB	1:I:407:ARG:NH2	2.27	0.49
1:J:346:PHE:HB3	1:J:403:SER:HA	1.94	0.49
1:M:340:THR:HB	1:M:407:ARG:NH2	2.27	0.49
1:M:426:SER:OG	1:M:731:THR:O	2.31	0.49
1:F:629:GLY:CA	1:Q:609:TRP:CD1	2.85	0.49
1:S:307:TRP:O	1:S:426:SER:CB	2.59	0.49
1:S:434:ASP:OD1	1:S:434:ASP:N	2.41	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:U:307:TRP:O	1:U:426:SER:CB	2.59	0.49
1:R:627:THR:HG22	1:U:429:HIS:NE2	2.26	0.49
1:X:487:ARG:HG2	1:X:488:GLN:N	2.28	0.49
1:Y:346:PHE:HB3	1:Y:403:SER:HA	1.93	0.49
1:Y:429:HIS:NE2	1:Y:610:GLN:OE1	2.45	0.49
1:Y:300:GLN:NE2	1:Y:703:TYR:O	2.45	0.49
1:Z:426:SER:OG	1:Z:731:THR:O	2.30	0.49
1:1:286:ASP:O	1:1:364:CYS:HA	2.11	0.49
1:1:487:ARG:HG2	1:1:488:GLN:N	2.28	0.49
1:Z:629:GLY:CA	1:2:609:TRP:CD1	70.70	0.49
1:4:429:HIS:NE2	1:4:610:GLN:OE1	2.45	0.49
1:6:307:TRP:O	1:6:426:SER:CB	2.59	0.49
1:5:627:THR:HG22	1:7:429:HIS:NE2	2.26	0.49
1:A:451:THR:HG21	1:G:503:PHE:CE2	2.47	0.49
1:B:629:GLY:CA	1:C:609:TRP:NE1	55.63	0.49
1:C:429:HIS:NE2	1:C:610:GLN:OE1	2.45	0.49
1:D:340:THR:HB	1:D:407:ARG:NH2	2.27	0.49
1:D:487:ARG:HG2	1:D:488:GLN:N	2.28	0.49
1:D:490:ARG:HB2	1:D:576:THR:HB	1.93	0.49
1:F:429:HIS:NE2	1:F:610:GLN:OE1	2.45	0.49
1:I:429:HIS:NE2	1:I:610:GLN:OE1	2.45	0.49
1:K:487:ARG:HG2	1:K:488:GLN:N	2.28	0.49
1:L:429:HIS:NE2	1:L:610:GLN:OE1	2.45	0.49
1:Q:307:TRP:O	1:Q:426:SER:CB	2.59	0.49
1:Q:315:ASN:OD1	1:Q:316:PHE:N	2.45	0.49
1:R:426:SER:OG	1:R:731:THR:O	2.31	0.49
1:S:429:HIS:NE2	1:S:610:GLN:OE1	2.45	0.49
1:T:429:HIS:NE2	1:T:610:GLN:OE1	2.45	0.49
1:T:487:ARG:HG2	1:T:488:GLN:N	2.28	0.49
1:T:426:SER:OG	1:T:731:THR:O	2.31	0.49
1:V:429:HIS:NE2	1:V:610:GLN:OE1	2.45	0.49
1:X:609:TRP:CD1	1:Y:629:GLY:CA	54.84	0.49
1:1:429:HIS:NE2	1:1:610:GLN:OE1	2.45	0.49
1:2:315:ASN:OD1	1:2:316:PHE:N	2.45	0.49
1:2:340:THR:HB	1:2:407:ARG:NH2	2.27	0.49
1:2:487:ARG:HG2	1:2:488:GLN:N	2.28	0.49
1:2:490:ARG:HB2	1:2:576:THR:HB	1.93	0.49
1:6:340:THR:HB	1:6:407:ARG:NH2	2.27	0.49
1:7:307:TRP:O	1:7:426:SER:CB	2.59	0.49
1:7:426:SER:OG	1:7:731:THR:O	2.31	0.49
1:8:429:HIS:NE2	1:8:610:GLN:OE1	2.45	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:8:416:TYR:OH	1:8:644:HIS:O	2.27	0.49
1:A:315:ASN:OD1	1:A:316:PHE:N	2.45	0.49
1:B:487:ARG:HG2	1:B:488:GLN:N	2.27	0.49
1:D:315:ASN:OD1	1:D:316:PHE:N	2.45	0.49
1:D:503:PHE:CE2	1:P:451:THR:HG21	2.47	0.49
1:D:609:TRP:CD1	1:L:629:GLY:CA	119.77	0.49
1:E:426:SER:OG	1:E:731:THR:O	2.31	0.49
1:G:340:THR:HB	1:G:407:ARG:NH2	2.27	0.49
1:H:381:LEU:HD21	1:Y:439:PRO:HB3	1.92	0.49
1:H:487:ARG:HG2	1:H:488:GLN:N	2.27	0.49
1:H:416:TYR:OH	1:H:644:HIS:O	2.27	0.49
1:A:629:GLY:CA	1:I:609:TRP:CD1	2.86	0.49
1:J:490:ARG:HB2	1:J:576:THR:HB	1.93	0.49
1:K:503:PHE:CE2	1:8:451:THR:HG21	2.47	0.49
1:K:416:TYR:OH	1:K:644:HIS:O	2.27	0.49
1:L:340:THR:HB	1:L:407:ARG:NH2	2.27	0.49
1:B:629:GLY:CA	1:L:609:TRP:NE1	2.58	0.49
1:N:315:ASN:OD1	1:N:316:PHE:N	2.45	0.49
1:N:429:HIS:NE2	1:N:610:GLN:OE1	2.45	0.49
1:P:429:HIS:NE2	1:P:610:GLN:OE1	2.45	0.49
1:W:429:HIS:NE2	1:W:610:GLN:OE1	2.45	0.49
1:W:481:LEU:CD1	1:X:636:LEU:HD11	64.79	0.49
1:X:300:GLN:NE2	1:X:703:TYR:O	2.45	0.49
1:X:426:SER:OG	1:X:731:THR:O	2.31	0.49
1:Y:490:ARG:HB2	1:Y:576:THR:HB	1.93	0.49
1:Z:340:THR:HB	1:Z:407:ARG:NH2	2.27	0.49
1:1:307:TRP:O	1:1:426:SER:CB	2.59	0.49
1:2:426:SER:OG	1:2:731:THR:O	2.31	0.49
1:4:315:ASN:OD1	1:4:316:PHE:N	2.45	0.49
1:A:429:HIS:NE2	1:A:610:GLN:OE1	2.45	0.49
1:B:315:ASN:OD1	1:B:316:PHE:N	2.45	0.49
1:D:426:SER:OG	1:D:731:THR:O	2.31	0.49
1:F:307:TRP:O	1:F:426:SER:CB	2.59	0.49
1:L:426:SER:OG	1:L:731:THR:O	2.31	0.49
1:Q:627:THR:HG22	1:S:429:HIS:NE2	88.21	0.49
1:T:416:TYR:OH	1:T:644:HIS:O	2.27	0.49
1:W:346:PHE:HB3	1:W:403:SER:HA	1.93	0.49
1:W:426:SER:OG	1:W:731:THR:O	2.31	0.49
1:W:627:THR:HG22	1:Y:429:HIS:NE2	31.27	0.49
1:Y:429:HIS:HD2	1:Y:610:GLN:OE1	1.94	0.49
1:Z:487:ARG:HG2	1:Z:488:GLN:N	2.28	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:5:487:ARG:HG2	1:5:488:GLN:N	2.28	0.49
1:6:251:PRO:HG3	1:6:374:MET:HE3	1.95	0.49
1:7:300:GLN:NE2	1:7:703:TYR:O	2.45	0.49
1:B:490:ARG:HB2	1:B:576:THR:HB	1.93	0.49
1:C:346:PHE:HB3	1:C:403:SER:HA	1.93	0.49
1:C:426:SER:OG	1:C:731:THR:O	2.31	0.49
1:E:307:TRP:O	1:E:426:SER:CB	2.59	0.49
1:E:487:ARG:HG2	1:E:488:GLN:N	2.27	0.49
1:G:426:SER:OG	1:G:731:THR:O	2.31	0.49
1:H:426:SER:OG	1:H:731:THR:O	2.31	0.49
1:J:429:HIS:NE2	1:J:610:GLN:OE1	2.45	0.49
1:L:328:GLN:NE2	1:L:333:LYS:HG3	2.24	0.49
1:M:487:ARG:HG2	1:M:488:GLN:N	2.28	0.49
1:R:300:GLN:NE2	1:R:703:TYR:O	2.45	0.49
1:S:487:ARG:HG2	1:S:488:GLN:N	2.28	0.49
1:U:487:ARG:HG2	1:U:488:GLN:N	2.28	0.49
1:V:429:HIS:HD2	1:V:610:GLN:OE1	1.94	0.49
1:H:429:HIS:NE2	1:W:627:THR:HG22	2.26	0.49
1:X:286:ASP:O	1:X:364:CYS:HA	2.11	0.49
1:X:328:GLN:NE2	1:X:333:LYS:HG3	2.24	0.49
1:3:429:HIS:NE2	1:3:610:GLN:OE1	2.45	0.49
1:4:346:PHE:HB3	1:4:403:SER:HA	1.93	0.49
1:5:609:TRP:NE1	1:6:629:GLY:CA	2.58	0.49
1:6:609:TRP:CD1	1:7:629:GLY:CA	2.85	0.49
1:A:307:TRP:O	1:A:426:SER:CB	2.59	0.49
1:B:254:ASN:O	1:B:255:ASN:C	2.47	0.49
1:D:429:HIS:NE2	1:D:610:GLN:OE1	2.45	0.49
1:F:251:PRO:HG3	1:F:374:MET:HE3	1.95	0.49
1:I:426:SER:OG	1:I:731:THR:O	2.31	0.49
1:J:300:GLN:NE2	1:J:703:TYR:O	2.45	0.49
1:O:429:HIS:NE2	1:O:610:GLN:OE1	2.45	0.49
1:Q:487:ARG:HG2	1:Q:488:GLN:N	2.27	0.49
1:T:307:TRP:O	1:T:426:SER:CB	2.59	0.49
1:X:429:HIS:HD2	1:X:610:GLN:OE1	1.94	0.49
1:1:346:PHE:HB3	1:1:403:SER:HA	1.93	0.49
1:1:434:ASP:OD1	1:1:434:ASP:N	2.41	0.49
1:6:487:ARG:HG2	1:6:488:GLN:N	2.28	0.49
1:7:487:ARG:HG2	1:7:488:GLN:N	2.28	0.49
1:C:487:ARG:HG2	1:C:488:GLN:N	2.28	0.49
1:E:503:PHE:CE2	1:V:451:THR:HG21	181.65	0.49
1:E:300:GLN:NE2	1:E:703:TYR:O	2.45	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:487:ARG:HG2	1:F:488:GLN:N	2.28	0.49
1:F:300:GLN:NE2	1:F:703:TYR:O	2.45	0.49
1:G:300:GLN:NE2	1:G:703:TYR:O	2.45	0.49
1:A:381:LEU:HD21	1:K:439:PRO:HB3	103.48	0.49
1:L:487:ARG:HG2	1:L:488:GLN:N	2.28	0.49
1:D:439:PRO:HB3	1:N:381:LEU:HD21	1.93	0.49
1:O:315:ASN:OD1	1:O:316:PHE:N	2.45	0.49
1:R:340:THR:HB	1:R:407:ARG:NH2	2.27	0.49
1:R:429:HIS:NE2	1:R:610:GLN:OE1	2.45	0.49
1:U:300:GLN:NE2	1:U:703:TYR:O	2.45	0.49
1:V:487:ARG:HG2	1:V:488:GLN:N	2.27	0.49
1:W:487:ARG:HG2	1:W:488:GLN:N	2.28	0.49
1:Z:315:ASN:OD1	1:Z:316:PHE:N	2.45	0.49
1:2:429:HIS:NE2	1:2:610:GLN:OE1	2.45	0.49
1:3:346:PHE:HB3	1:3:403:SER:HA	1.93	0.49
1:4:307:TRP:O	1:4:426:SER:CB	2.59	0.49
1:5:315:ASN:OD1	1:5:316:PHE:N	2.45	0.49
1:I:300:GLN:NE2	1:I:703:TYR:O	2.45	0.49
1:O:307:TRP:O	1:O:426:SER:CB	2.59	0.49
1:R:487:ARG:HG2	1:R:488:GLN:N	2.28	0.49
1:S:300:GLN:NE2	1:S:703:TYR:O	2.45	0.49
1:U:429:HIS:NE2	1:U:610:GLN:OE1	2.45	0.49
1:X:429:HIS:NE2	1:X:610:GLN:OE1	2.45	0.49
1:Y:487:ARG:HG2	1:Y:488:GLN:N	2.28	0.49
1:8:429:HIS:HD2	1:8:610:GLN:OE1	1.94	0.49
1:B:426:SER:OG	1:B:731:THR:O	2.31	0.49
1:H:300:GLN:NE2	1:H:703:TYR:O	2.45	0.49
1:J:487:ARG:HG2	1:J:488:GLN:N	2.28	0.49
1:N:609:TRP:CD1	1:P:629:GLY:CA	2.85	0.49
1:P:300:GLN:NE2	1:P:703:TYR:O	2.45	0.49
1:U:251:PRO:HG3	1:U:374:MET:HE3	1.95	0.49
1:W:464:LEU:HD23	1:X:554:ASN:HB3	59.34	0.49
1:8:300:GLN:NE2	1:8:703:TYR:O	2.45	0.48
1:F:585:ASN:OD1	1:F:594:ILE:N	2.45	0.48
1:E:629:GLY:CA	1:F:609:TRP:CD1	2.85	0.48
1:I:487:ARG:HG2	1:I:488:GLN:N	2.28	0.48
1:M:300:GLN:NE2	1:M:703:TYR:O	2.45	0.48
1:N:307:TRP:O	1:N:426:SER:CB	2.59	0.48
1:T:434:ASP:OD1	1:T:434:ASP:N	2.41	0.48
1:Y:307:TRP:O	1:Y:426:SER:CB	2.59	0.48
1:X:481:LEU:CD1	1:Y:636:LEU:HD11	73.03	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Y:426:SER:OG	1:Y:731:THR:O	2.30	0.48
1:3:487:ARG:HG2	1:3:488:GLN:N	2.28	0.48
1:4:487:ARG:HG2	1:4:488:GLN:N	2.27	0.48
1:K:629:GLY:CA	1:8:609:TRP:CD1	2.84	0.48
1:K:426:SER:OG	1:K:731:THR:O	2.31	0.48
1:M:307:TRP:O	1:M:426:SER:CB	2.59	0.48
1:N:487:ARG:HG2	1:N:488:GLN:N	2.27	0.48
1:P:487:ARG:HG2	1:P:488:GLN:N	2.28	0.48
1:P:429:HIS:HD2	1:P:610:GLN:OE1	1.94	0.48
1:U:426:SER:OG	1:U:731:THR:O	2.31	0.48
1:3:382:THR:HG22	1:3:383:LEU:N	2.29	0.48
1:5:307:TRP:O	1:5:426:SER:CB	2.59	0.48
1:6:315:ASN:OD1	1:6:316:PHE:N	2.45	0.48
1:A:426:SER:OG	1:A:731:THR:O	2.31	0.48
1:D:609:TRP:NE1	1:L:629:GLY:CA	119.85	0.48
1:J:307:TRP:O	1:J:426:SER:CB	2.59	0.48
1:J:585:ASN:OD1	1:J:594:ILE:N	2.45	0.48
1:O:487:ARG:HG2	1:O:488:GLN:N	2.28	0.48
1:F:629:GLY:CA	1:Q:609:TRP:NE1	2.58	0.48
1:R:307:TRP:O	1:R:426:SER:CB	2.59	0.48
1:Y:382:THR:HG22	1:Y:383:LEU:N	2.29	0.48
1:3:315:ASN:OD1	1:3:316:PHE:N	2.45	0.48
1:8:487:ARG:HG2	1:8:488:GLN:N	2.27	0.48
1:A:609:TRP:CD1	1:8:629:GLY:CA	127.63	0.48
1:B:307:TRP:O	1:B:426:SER:CB	2.59	0.48
1:E:609:TRP:CD1	1:X:629:GLY:CA	134.17	0.48
1:I:307:TRP:O	1:I:426:SER:CB	2.59	0.48
1:K:434:ASP:OD1	1:K:434:ASP:N	2.41	0.48
1:O:382:THR:HG22	1:O:383:LEU:N	2.29	0.48
1:S:426:SER:OG	1:S:731:THR:O	2.31	0.48
1:V:416:TYR:OH	1:V:644:HIS:O	2.27	0.48
1:2:526:MET:HE1	1:2:575:ALA:HA	1.96	0.48
1:B:382:THR:HG22	1:B:383:LEU:N	2.29	0.48
1:C:434:ASP:OD1	1:C:434:ASP:N	2.41	0.48
1:F:426:SER:OG	1:F:731:THR:O	2.31	0.48
1:N:426:SER:OG	1:N:731:THR:O	2.31	0.48
1:R:429:HIS:HD2	1:R:610:GLN:OE1	1.94	0.48
1:V:382:THR:HG22	1:V:383:LEU:N	2.29	0.48
1:E:629:GLY:CA	1:V:609:TRP:CD1	114.10	0.48
1:X:451:THR:HG21	1:Y:503:PHE:CE2	103.39	0.48
1:W:554:ASN:HB3	1:Y:464:LEU:HD23	60.11	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Z:307:TRP:O	1:Z:426:SER:CB	2.59	0.48
1:4:251:PRO:HG3	1:4:374:MET:HE3	1.95	0.48
1:7:585:ASN:OD1	1:7:594:ILE:N	2.45	0.48
1:A:487:ARG:HG2	1:A:488:GLN:N	2.28	0.48
1:C:300:GLN:NE2	1:C:703:TYR:O	2.45	0.48
1:E:382:THR:HG22	1:E:383:LEU:N	2.29	0.48
1:E:585:ASN:OD1	1:E:594:ILE:N	2.45	0.48
1:G:487:ARG:HG2	1:G:488:GLN:N	2.28	0.48
1:J:426:SER:OG	1:J:731:THR:O	2.31	0.48
1:D:629:GLY:CA	1:P:609:TRP:CD1	2.84	0.48
1:P:426:SER:OG	1:P:731:THR:O	2.31	0.48
1:Q:434:ASP:OD1	1:Q:434:ASP:N	2.41	0.48
1:V:426:SER:OG	1:V:731:THR:O	2.31	0.48
1:W:490:ARG:CZ	1:Y:586:LEU:HD21	33.25	0.48
1:1:426:SER:OG	1:1:731:THR:O	2.31	0.48
1:6:300:GLN:NE2	1:6:703:TYR:O	2.45	0.48
1:7:382:THR:HG22	1:7:383:LEU:N	2.29	0.48
1:A:429:HIS:HD2	1:A:610:GLN:OE1	1.94	0.48
1:C:382:THR:HG22	1:C:383:LEU:N	2.29	0.48
1:D:382:THR:HG22	1:D:383:LEU:N	2.29	0.48
1:D:434:ASP:OD1	1:D:434:ASP:N	2.41	0.48
1:G:307:TRP:O	1:G:426:SER:CB	2.59	0.48
1:I:382:THR:HG22	1:I:383:LEU:N	2.29	0.48
1:I:434:ASP:OD1	1:I:434:ASP:N	2.41	0.48
1:L:300:GLN:NE2	1:L:703:TYR:O	2.45	0.48
1:R:585:ASN:OD1	1:R:594:ILE:N	2.45	0.48
1:V:307:TRP:O	1:V:426:SER:CB	2.59	0.48
1:V:585:ASN:OD1	1:V:594:ILE:N	2.45	0.48
1:X:382:THR:HG22	1:X:383:LEU:N	2.29	0.48
1:Y:585:ASN:OD1	1:Y:594:ILE:N	2.45	0.48
1:2:382:THR:HG22	1:2:383:LEU:N	2.29	0.48
1:5:429:HIS:HD2	1:5:610:GLN:OE1	1.94	0.48
1:6:328:GLN:NE2	1:6:333:LYS:HG3	2.24	0.48
1:K:300:GLN:NE2	1:K:703:TYR:O	2.45	0.48
1:N:287:PHE:CE1	1:N:621:TRP:HH2	2.32	0.48
1:Q:287:PHE:CE1	1:Q:621:TRP:HH2	2.32	0.48
1:W:287:PHE:CE1	1:W:621:TRP:HH2	2.32	0.48
1:1:287:PHE:CE1	1:1:621:TRP:HH2	2.32	0.48
1:Z:629:GLY:CA	1:2:609:TRP:NE1	71.37	0.48
1:A:287:PHE:CE1	1:A:621:TRP:HH2	2.32	0.48
1:J:382:THR:HG22	1:J:383:LEU:N	2.29	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:526:MET:HE1	1:J:575:ALA:HA	1.96	0.48
1:K:287:PHE:CE1	1:K:621:TRP:HH2	2.32	0.48
1:M:382:THR:HG22	1:M:383:LEU:N	2.29	0.48
1:O:429:HIS:HD2	1:O:610:GLN:OE1	1.94	0.48
1:Q:429:HIS:HD2	1:Q:610:GLN:OE1	1.94	0.48
1:T:629:GLY:CA	1:V:609:TRP:NE1	111.06	0.48
1:W:429:HIS:NE2	1:X:627:THR:HG22	60.07	0.48
1:D:287:PHE:CE1	1:D:621:TRP:HH2	2.32	0.48
1:D:300:GLN:NE2	1:D:703:TYR:O	2.45	0.48
1:G:251:PRO:HG3	1:G:374:MET:HE3	1.99	0.48
1:L:382:THR:HG22	1:L:383:LEU:N	2.29	0.48
1:S:251:PRO:HG3	1:S:374:MET:HE3	1.95	0.48
1:T:287:PHE:CE1	1:T:621:TRP:HH2	2.32	0.48
1:U:585:ASN:OD1	1:U:594:ILE:N	2.45	0.48
1:W:585:ASN:OD1	1:W:594:ILE:N	2.45	0.48
1:W:586:LEU:HD21	1:X:490:ARG:CZ	82.07	0.48
1:X:439:PRO:HB3	1:Y:381:LEU:HD21	57.15	0.48
1:2:300:GLN:NE2	1:2:703:TYR:O	2.45	0.47
1:4:287:PHE:CE1	1:4:621:TRP:HH2	2.32	0.47
1:4:426:SER:OG	1:4:731:THR:O	2.31	0.47
1:A:382:THR:HG22	1:A:383:LEU:N	2.29	0.47
1:F:287:PHE:CE1	1:F:621:TRP:HH2	2.32	0.47
1:Q:585:ASN:OD1	1:Q:594:ILE:N	2.45	0.47
1:E:629:GLY:CA	1:V:609:TRP:NE1	114.07	0.47
1:X:526:MET:HE1	1:X:575:ALA:HA	2.02	0.47
1:Z:300:GLN:NE2	1:Z:703:TYR:O	2.45	0.47
1:6:287:PHE:CE1	1:6:621:TRP:HH2	2.32	0.47
1:B:287:PHE:CE1	1:B:621:TRP:HH2	2.32	0.47
1:H:585:ASN:OD1	1:H:594:ILE:N	2.45	0.47
1:U:258:TYR:OH	1:U:399:GLU:OE1	2.22	0.47
1:R:629:GLY:CA	1:U:609:TRP:NE1	2.58	0.47
1:W:251:PRO:HG3	1:W:374:MET:HE3	1.95	0.47
1:W:438:ASN:HB2	1:X:356:VAL:CG2	47.40	0.47
1:Q:232:ASP:HB3	1:Y:402:PRO:CG	120.31	0.47
1:1:609:TRP:CD1	1:2:629:GLY:CA	2.85	0.47
1:3:485:CYS:HB2	1:3:573:PRO:HG3	1.97	0.47
1:3:300:GLN:NE2	1:3:703:TYR:O	2.45	0.47
1:C:485:CYS:HB2	1:C:573:PRO:HG3	1.97	0.47
1:D:485:CYS:HB2	1:D:573:PRO:HG3	1.97	0.47
1:G:287:PHE:CE1	1:G:621:TRP:HH2	2.32	0.47
1:H:258:TYR:OH	1:H:399:GLU:OE1	2.22	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:429:HIS:HD2	1:H:610:GLN:OE1	1.94	0.47
1:H:287:PHE:CE1	1:H:621:TRP:HH2	2.32	0.47
1:K:485:CYS:HB2	1:K:573:PRO:HG3	1.97	0.47
1:L:485:CYS:HB2	1:L:573:PRO:HG3	1.97	0.47
1:M:287:PHE:CE1	1:M:621:TRP:HH2	2.32	0.47
1:O:287:PHE:CE1	1:O:621:TRP:HH2	2.32	0.47
1:O:485:CYS:HB2	1:O:573:PRO:HG3	1.97	0.47
1:S:287:PHE:CE1	1:S:621:TRP:HH2	2.32	0.47
1:T:609:TRP:CD1	1:U:629:GLY:CA	54.84	0.47
1:Z:287:PHE:CE1	1:Z:621:TRP:HH2	2.32	0.47
1:Z:382:THR:HG22	1:Z:383:LEU:N	2.29	0.47
1:1:416:TYR:OH	1:1:644:HIS:O	2.27	0.47
1:4:485:CYS:HB2	1:4:573:PRO:HG3	1.97	0.47
1:5:251:PRO:HG3	1:5:374:MET:HE3	1.97	0.47
1:6:426:SER:OG	1:6:731:THR:O	2.31	0.47
1:7:287:PHE:CE1	1:7:621:TRP:HH2	2.32	0.47
1:K:636:LEU:HD11	1:8:481:LEU:CD1	2.45	0.47
1:B:485:CYS:HB2	1:B:573:PRO:HG3	1.97	0.47
1:B:585:ASN:OD1	1:B:594:ILE:N	2.45	0.47
1:I:287:PHE:CE1	1:I:621:TRP:HH2	2.32	0.47
1:J:485:CYS:HB2	1:J:573:PRO:HG3	1.97	0.47
1:J:287:PHE:CE1	1:J:621:TRP:HH2	2.32	0.47
1:L:287:PHE:CE1	1:L:621:TRP:HH2	2.32	0.47
1:M:226:SER:HG	1:M:320:ASN:H	1.60	0.47
1:M:485:CYS:HB2	1:M:573:PRO:HG3	1.97	0.47
1:N:485:CYS:HB2	1:N:573:PRO:HG3	1.97	0.47
1:P:382:THR:HG22	1:P:383:LEU:N	2.29	0.47
1:R:287:PHE:CE1	1:R:621:TRP:HH2	2.32	0.47
1:S:258:TYR:OH	1:S:399:GLU:OE1	2.22	0.47
1:W:382:THR:HG22	1:W:383:LEU:N	2.29	0.47
1:X:307:TRP:O	1:X:426:SER:CB	2.59	0.47
1:X:585:ASN:OD1	1:X:594:ILE:N	2.45	0.47
1:8:426:SER:OG	1:8:731:THR:O	2.31	0.47
1:D:636:LEU:HD11	1:P:481:LEU:CD1	2.45	0.47
1:E:287:PHE:CE1	1:E:621:TRP:HH2	2.32	0.47
1:M:585:ASN:OD1	1:M:594:ILE:N	2.45	0.47
1:O:300:GLN:NE2	1:O:703:TYR:O	2.45	0.47
1:Q:485:CYS:HB2	1:Q:573:PRO:HG3	1.97	0.47
1:S:429:HIS:HD2	1:S:610:GLN:OE1	1.94	0.47
1:U:434:ASP:N	1:U:434:ASP:OD1	2.41	0.47
1:V:434:ASP:OD1	1:V:434:ASP:N	2.41	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:W:586:LEU:HD11	1:X:490:ARG:NE	79.81	0.47
1:Y:287:PHE:CE1	1:Y:621:TRP:HH2	2.32	0.47
1:A:383:LEU:HG	1:I:430:SER:O	2.15	0.47
1:G:382:THR:HG22	1:G:383:LEU:N	2.29	0.47
1:I:485:CYS:HB2	1:I:573:PRO:HG3	1.97	0.47
1:P:485:CYS:HB2	1:P:573:PRO:HG3	1.97	0.47
1:R:609:TRP:CD1	1:S:629:GLY:CA	2.85	0.47
1:W:485:CYS:HB2	1:W:573:PRO:HG3	1.97	0.47
1:A:251:PRO:HG3	1:A:374:MET:HE3	1.98	0.47
1:C:287:PHE:CE1	1:C:621:TRP:HH2	2.32	0.47
1:F:434:ASP:OD1	1:F:434:ASP:N	2.41	0.47
1:F:429:HIS:HD2	1:F:610:GLN:OE1	1.94	0.47
1:G:485:CYS:HB2	1:G:573:PRO:HG3	1.97	0.47
1:J:429:HIS:HD2	1:J:610:GLN:OE1	1.94	0.47
1:R:430:SER:O	1:S:383:LEU:HG	2.15	0.47
1:E:636:LEU:HD11	1:V:481:LEU:CD1	140.68	0.47
1:V:287:PHE:CE1	1:V:621:TRP:HH2	2.32	0.47
1:H:383:LEU:HG	1:Y:430:SER:O	2.15	0.47
1:Y:485:CYS:HB2	1:Y:573:PRO:HG3	1.97	0.47
1:6:485:CYS:HB2	1:6:573:PRO:HG3	1.97	0.47
1:A:300:GLN:NE2	1:A:703:TYR:O	2.45	0.47
1:F:485:CYS:HB2	1:F:573:PRO:HG3	1.97	0.47
1:A:430:SER:O	1:G:383:LEU:HG	2.15	0.47
1:A:481:LEU:CD1	1:G:636:LEU:HD11	2.45	0.47
1:K:429:HIS:HD2	1:K:610:GLN:OE1	1.94	0.47
1:Q:426:SER:OG	1:Q:731:THR:O	2.31	0.47
1:R:485:CYS:HB2	1:R:573:PRO:HG3	1.97	0.47
1:D:629:GLY:CA	1:T:609:TRP:CD1	117.49	0.47
1:U:287:PHE:CE1	1:U:621:TRP:HH2	2.32	0.47
1:E:356:VAL:CG2	1:V:438:ASN:HB2	146.15	0.47
1:W:451:THR:HG21	1:X:503:PHE:CE2	74.84	0.47
1:5:238:ASP:OD1	1:5:239:ARG:N	2.48	0.47
1:5:430:SER:O	1:6:383:LEU:HG	2.15	0.47
1:7:526:MET:HE1	1:7:575:ALA:HA	1.96	0.47
1:8:485:CYS:HB2	1:8:573:PRO:HG3	1.97	0.47
1:C:481:LEU:CD1	1:O:636:LEU:HD11	135.98	0.47
1:D:238:ASP:OD1	1:D:239:ARG:N	2.48	0.47
1:E:609:TRP:NE1	1:Q:629:GLY:CA	2.58	0.47
1:L:585:ASN:OD1	1:L:594:ILE:N	2.45	0.47
1:D:481:LEU:CD1	1:L:636:LEU:HD11	128.54	0.47
1:N:251:PRO:HG3	1:N:374:MET:HE3	1.95	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:526:MET:HE1	1:N:575:ALA:HA	1.96	0.47
1:N:300:GLN:NE2	1:N:703:TYR:O	2.45	0.47
1:O:430:SER:O	1:P:383:LEU:HG	38.13	0.47
1:C:629:GLY:CA	1:P:609:TRP:CD1	69.06	0.47
1:O:481:LEU:CD1	1:P:636:LEU:HD11	73.03	0.47
1:F:383:LEU:HG	1:Q:430:SER:O	2.15	0.47
1:T:300:GLN:NE2	1:T:703:TYR:O	2.45	0.47
1:V:485:CYS:HB2	1:V:573:PRO:HG3	1.97	0.47
1:X:564:SER:OG	1:X:566:GLU:HG2	2.15	0.47
1:2:328:GLN:NE2	1:2:333:LYS:HG3	2.24	0.47
1:Z:636:LEU:HD11	1:2:481:LEU:CD1	87.26	0.47
1:2:564:SER:OG	1:2:566:GLU:HG2	2.15	0.47
1:2:287:PHE:CE1	1:2:621:TRP:HH2	2.32	0.47
1:7:485:CYS:HB2	1:7:573:PRO:HG3	1.97	0.47
1:E:485:CYS:HB2	1:E:573:PRO:HG3	1.97	0.47
1:I:585:ASN:OD1	1:I:594:ILE:N	2.45	0.47
1:K:238:ASP:OD1	1:K:239:ARG:N	2.48	0.47
1:L:526:MET:HE1	1:L:575:ALA:HA	1.97	0.47
1:P:307:TRP:O	1:P:426:SER:CB	2.59	0.47
1:P:287:PHE:CE1	1:P:621:TRP:HH2	2.32	0.47
1:Q:238:ASP:OD1	1:Q:239:ARG:N	2.48	0.47
1:R:564:SER:OG	1:R:566:GLU:HG2	2.15	0.47
1:U:564:SER:OG	1:U:566:GLU:HG2	2.15	0.47
1:U:485:CYS:HB2	1:U:573:PRO:HG3	1.97	0.47
1:W:425:SER:HB3	1:X:628:ASP:OD1	64.00	0.47
1:X:287:PHE:CE1	1:X:621:TRP:HH2	2.32	0.47
1:E:481:LEU:CD1	1:X:636:LEU:HD11	137.47	0.47
1:Y:238:ASP:OD1	1:Y:239:ARG:N	2.48	0.47
1:Y:564:SER:OG	1:Y:566:GLU:HG2	2.15	0.47
1:Z:356:VAL:CG2	1:2:438:ASN:HB2	90.36	0.47
1:3:287:PHE:CE1	1:3:621:TRP:HH2	2.32	0.47
1:5:426:SER:OG	1:5:731:THR:O	2.31	0.47
1:8:287:PHE:CE1	1:8:621:TRP:HH2	2.32	0.47
1:A:526:MET:HE1	1:A:575:ALA:HA	2.17	0.47
1:C:238:ASP:OD1	1:C:239:ARG:N	2.48	0.47
1:C:430:SER:O	1:O:383:LEU:HG	161.48	0.47
1:C:564:SER:OG	1:C:566:GLU:HG2	2.15	0.47
1:C:526:MET:HE1	1:C:575:ALA:HA	1.97	0.47
1:C:585:ASN:OD1	1:C:594:ILE:N	2.45	0.47
1:D:564:SER:OG	1:D:566:GLU:HG2	2.15	0.47
1:F:238:ASP:OD1	1:F:239:ARG:N	2.48	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:564:SER:OG	1:I:566:GLU:HG2	2.15	0.47
1:K:564:SER:OG	1:K:566:GLU:HG2	2.15	0.47
1:L:238:ASP:OD1	1:L:239:ARG:N	2.48	0.47
1:B:636:LEU:HD11	1:L:481:LEU:CD1	2.45	0.47
1:M:564:SER:OG	1:M:566:GLU:HG2	2.15	0.47
1:N:430:SER:O	1:O:383:LEU:HG	58.20	0.47
1:Q:481:LEU:CD1	1:R:636:LEU:HD11	64.79	0.47
1:S:485:CYS:HB2	1:S:573:PRO:HG3	1.97	0.47
1:T:383:LEU:HG	1:V:430:SER:O	93.81	0.47
1:R:383:LEU:HG	1:U:430:SER:O	2.15	0.47
1:V:238:ASP:OD1	1:V:239:ARG:N	2.48	0.47
1:V:564:SER:OG	1:V:566:GLU:HG2	2.15	0.47
1:V:636:LEU:HD11	1:X:481:LEU:CD1	2.45	0.47
1:X:238:ASP:OD1	1:X:239:ARG:N	2.48	0.47
1:X:609:TRP:NE1	1:Y:629:GLY:CA	55.63	0.47
1:W:481:LEU:CD1	1:Y:636:LEU:HD11	2.45	0.47
1:Z:564:SER:OG	1:Z:566:GLU:HG2	2.15	0.47
1:1:300:GLN:NE2	1:1:703:TYR:O	2.45	0.46
1:3:383:LEU:HG	1:4:430:SER:O	2.15	0.46
1:6:238:ASP:OD1	1:6:239:ARG:N	2.48	0.46
1:5:481:LEU:CD1	1:6:636:LEU:HD11	2.45	0.46
1:5:629:GLY:CA	1:7:609:TRP:NE1	2.58	0.46
1:A:585:ASN:OD1	1:A:594:ILE:N	2.45	0.46
1:B:636:LEU:HD11	1:C:481:LEU:CD1	73.03	0.46
1:D:438:ASN:HB2	1:L:356:VAL:CG2	126.55	0.46
1:E:564:SER:OG	1:E:566:GLU:HG2	2.15	0.46
1:H:430:SER:O	1:W:383:LEU:HG	2.15	0.46
1:H:481:LEU:CD1	1:W:636:LEU:HD11	2.46	0.46
1:G:430:SER:O	1:I:383:LEU:HG	2.16	0.46
1:O:426:SER:OG	1:O:731:THR:O	2.31	0.46
1:C:383:LEU:HG	1:P:430:SER:O	57.70	0.46
1:Q:636:LEU:HD11	1:S:481:LEU:CD1	82.55	0.46
1:R:238:ASP:OD1	1:R:239:ARG:N	2.48	0.46
1:S:416:TYR:OH	1:S:644:HIS:O	2.27	0.46
1:S:430:SER:O	1:U:383:LEU:HG	2.15	0.46
1:W:430:SER:O	1:X:383:LEU:HG	58.19	0.46
1:W:487:ARG:HD2	1:Y:583:ALA:O	18.74	0.46
1:Z:383:LEU:HG	1:3:430:SER:O	2.15	0.46
1:Z:485:CYS:HB2	1:Z:573:PRO:HG3	1.97	0.46
1:Z:585:ASN:OD1	1:Z:594:ILE:N	2.45	0.46
1:4:238:ASP:OD1	1:4:239:ARG:N	2.48	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:5:564:SER:OG	1:5:566:GLU:HG2	2.15	0.46
1:6:430:SER:O	1:7:383:LEU:HG	2.15	0.46
1:8:382:THR:HG22	1:8:383:LEU:N	2.29	0.46
1:A:238:ASP:OD1	1:A:239:ARG:N	2.48	0.46
1:A:564:SER:OG	1:A:566:GLU:HG2	2.15	0.46
1:A:636:LEU:HD11	1:I:481:LEU:CD1	2.46	0.46
1:E:383:LEU:HG	1:F:430:SER:O	2.15	0.46
1:G:383:LEU:HG	1:H:430:SER:O	58.20	0.46
1:G:564:SER:OG	1:G:566:GLU:HG2	2.15	0.46
1:G:609:TRP:CD1	1:I:629:GLY:CA	2.85	0.46
1:F:481:LEU:CD1	1:H:636:LEU:HD11	128.54	0.46
1:K:382:THR:HG22	1:K:383:LEU:N	2.29	0.46
1:J:481:LEU:CD1	1:K:636:LEU:HD11	64.79	0.46
1:N:238:ASP:OD1	1:N:239:ARG:N	2.48	0.46
1:M:383:LEU:HG	1:O:430:SER:O	93.81	0.46
1:Q:383:LEU:HG	1:S:430:SER:O	100.57	0.46
1:F:636:LEU:HD11	1:Q:481:LEU:CD1	2.45	0.46
1:S:564:SER:OG	1:S:566:GLU:HG2	2.15	0.46
1:T:238:ASP:OD1	1:T:239:ARG:N	2.48	0.46
1:T:485:CYS:HB2	1:T:573:PRO:HG3	1.97	0.46
1:W:564:SER:OG	1:W:566:GLU:HG2	2.15	0.46
1:Z:438:ASN:HB2	1:I:356:VAL:CG2	93.26	0.46
1:I:485:CYS:HB2	1:I:573:PRO:HG3	1.97	0.46
1:A:438:ASN:HB2	1:G:356:VAL:CG2	2.46	0.46
1:A:485:CYS:HB2	1:A:573:PRO:HG3	1.97	0.46
1:B:238:ASP:OD1	1:B:239:ARG:N	2.48	0.46
1:B:383:LEU:HG	1:L:430:SER:O	2.15	0.46
1:E:238:ASP:OD1	1:E:239:ARG:N	2.48	0.46
1:G:585:ASN:OD1	1:G:594:ILE:N	2.45	0.46
1:G:429:HIS:HD2	1:G:610:GLN:OE1	1.94	0.46
1:H:485:CYS:HB2	1:H:573:PRO:HG3	1.97	0.46
1:G:481:LEU:CD1	1:I:636:LEU:HD11	2.45	0.46
1:I:430:SER:O	1:J:383:LEU:HG	38.12	0.46
1:L:438:ASN:HB2	1:T:356:VAL:CG2	195.61	0.46
1:L:564:SER:OG	1:L:566:GLU:HG2	2.15	0.46
1:O:585:ASN:OD1	1:O:594:ILE:N	2.45	0.46
1:C:636:LEU:HD11	1:P:481:LEU:CD1	67.49	0.46
1:Q:564:SER:OG	1:Q:566:GLU:HG2	2.15	0.46
1:Q:609:TRP:NE1	1:R:629:GLY:CA	68.75	0.46
1:U:430:SER:O	1:V:383:LEU:HG	58.20	0.46
1:W:238:ASP:OD1	1:W:239:ARG:N	2.48	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:X:485:CYS:HB2	1:X:573:PRO:HG3	1.97	0.46
1:Z:429:HIS:HD2	1:Z:610:GLN:OE1	1.94	0.46
1:2:238:ASP:OD1	1:2:239:ARG:N	2.48	0.46
1:5:287:PHE:CE1	1:5:621:TRP:HH2	2.32	0.46
1:5:356:VAL:CG2	1:7:438:ASN:HB2	2.46	0.46
1:B:356:VAL:CG2	1:C:438:ASN:HB2	62.41	0.46
1:B:356:VAL:CG2	1:L:438:ASN:HB2	2.46	0.46
1:B:383:LEU:HG	1:C:430:SER:O	38.12	0.46
1:E:430:SER:O	1:X:383:LEU:HG	160.72	0.46
1:E:636:LEU:HD11	1:F:481:LEU:CD1	2.45	0.46
1:G:238:ASP:OD1	1:G:239:ARG:N	2.48	0.46
1:I:238:ASP:OD1	1:I:239:ARG:N	2.48	0.46
1:I:383:LEU:HG	1:K:430:SER:O	93.82	0.46
1:J:430:SER:O	1:L:383:LEU:HG	2.16	0.46
1:J:430:SER:O	1:K:383:LEU:HG	58.19	0.46
1:C:383:LEU:HG	1:M:430:SER:O	2.16	0.46
1:M:429:HIS:HD2	1:M:610:GLN:OE1	1.94	0.46
1:N:564:SER:OG	1:N:566:GLU:HG2	2.15	0.46
1:P:585:ASN:OD1	1:P:594:ILE:N	2.45	0.46
1:Q:438:ASN:HB2	1:R:356:VAL:CG2	47.40	0.46
1:W:383:LEU:HG	1:Y:430:SER:O	46.29	0.46
1:W:438:ASN:HB2	1:Y:356:VAL:CG2	2.46	0.46
1:Z:251:PRO:HG3	1:Z:374:MET:HE3	2.02	0.46
1:2:485:CYS:HB2	1:2:573:PRO:HG3	1.97	0.46
1:1:481:LEU:CD1	1:2:636:LEU:HD11	2.45	0.46
1:3:356:VAL:CG2	1:4:438:ASN:HB2	2.46	0.46
1:7:238:ASP:OD1	1:7:239:ARG:N	2.48	0.46
1:6:481:LEU:CD1	1:7:636:LEU:HD11	2.45	0.46
1:A:434:ASP:N	1:A:434:ASP:OD1	2.41	0.46
1:B:438:ASN:HB2	1:M:356:VAL:CG2	128.40	0.46
1:B:564:SER:OG	1:B:566:GLU:HG2	2.15	0.46
1:D:356:VAL:CG2	1:P:438:ASN:HB2	2.45	0.46
1:E:356:VAL:CG2	1:F:438:ASN:HB2	2.46	0.46
1:E:438:ASN:HB2	1:Q:356:VAL:CG2	2.46	0.46
1:F:383:LEU:HG	1:G:430:SER:O	100.57	0.46
1:F:430:SER:O	1:H:383:LEU:HG	129.37	0.46
1:H:564:SER:OG	1:H:566:GLU:HG2	2.15	0.46
1:I:636:LEU:HD11	1:K:481:LEU:CD1	106.48	0.46
1:B:438:ASN:HB2	1:J:356:VAL:CG2	2.46	0.46
1:J:564:SER:OG	1:J:566:GLU:HG2	2.15	0.46
1:L:251:PRO:HG3	1:L:374:MET:HE3	2.02	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:O:251:PRO:HG3	1:O:374:MET:HE3	1.98	0.46
1:N:438:ASN:HB2	1:O:356:VAL:CG2	47.40	0.46
1:P:251:PRO:HG3	1:P:374:MET:HE3	1.98	0.46
1:O:438:ASN:HB2	1:P:356:VAL:CG2	62.42	0.46
1:C:629:GLY:CA	1:P:609:TRP:NE1	68.55	0.46
1:R:251:PRO:HG3	1:R:374:MET:HE3	1.97	0.46
1:S:382:THR:HG22	1:S:383:LEU:N	2.29	0.46
1:T:251:PRO:HG3	1:T:374:MET:HE3	2.01	0.46
1:D:636:LEU:HD11	1:T:481:LEU:CD1	128.50	0.46
1:U:238:ASP:OD1	1:U:239:ARG:N	2.48	0.46
1:W:429:HIS:HD2	1:W:610:GLN:OE1	1.94	0.46
1:3:238:ASP:OD1	1:3:239:ARG:N	2.48	0.46
1:3:251:PRO:HG3	1:3:374:MET:HE3	1.98	0.46
1:4:564:SER:OG	1:4:566:GLU:HG2	2.15	0.46
1:6:585:ASN:OD1	1:6:594:ILE:N	2.45	0.46
1:6:429:HIS:HD2	1:6:610:GLN:OE1	1.94	0.46
1:6:438:ASN:HB2	1:7:356:VAL:CG2	2.46	0.46
1:K:356:VAL:CG2	1:8:438:ASN:HB2	2.45	0.46
1:F:356:VAL:CG2	1:G:438:ASN:HB2	95.33	0.46
1:F:564:SER:OG	1:F:566:GLU:HG2	2.15	0.46
1:F:636:LEU:HD11	1:G:481:LEU:CD1	82.55	0.46
1:G:636:LEU:HD11	1:H:481:LEU:CD1	64.80	0.46
1:H:238:ASP:OD1	1:H:239:ARG:N	2.48	0.46
1:I:481:LEU:CD1	1:J:636:LEU:HD11	73.03	0.46
1:M:438:ASN:HB2	1:N:356:VAL:CG2	62.41	0.46
1:O:238:ASP:OD1	1:O:239:ARG:N	2.48	0.46
1:N:481:LEU:CD1	1:P:636:LEU:HD11	2.45	0.46
1:S:481:LEU:CD1	1:U:636:LEU:HD11	2.45	0.46
1:R:481:LEU:CD1	1:S:636:LEU:HD11	2.45	0.46
1:T:430:SER:O	1:U:383:LEU:HG	38.13	0.46
1:Z:438:ASN:HB2	1:4:356:VAL:CG2	2.46	0.46
1:1:438:ASN:HB2	1:2:356:VAL:CG2	2.46	0.46
1:1:430:SER:O	1:2:383:LEU:HG	2.15	0.46
1:A:481:LEU:CD1	1:8:636:LEU:HD11	144.80	0.46
1:D:438:ASN:HB2	1:N:356:VAL:CG2	2.46	0.46
1:F:609:TRP:NE1	1:H:629:GLY:CA	119.85	0.46
1:H:382:THR:HG22	1:H:383:LEU:N	2.29	0.46
1:G:438:ASN:HB2	1:I:356:VAL:CG2	2.46	0.46
1:J:232:ASP:HB3	1:X:402:PRO:CG	135.04	0.46
1:J:609:TRP:NE1	1:K:629:GLY:CA	68.74	0.46
1:A:636:LEU:HD11	1:K:481:LEU:CD1	123.25	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:481:LEU:CD1	1:N:636:LEU:HD11	73.03	0.46
1:M:636:LEU:HD11	1:O:481:LEU:CD1	106.48	0.46
1:R:382:THR:HG22	1:R:383:LEU:N	2.29	0.46
1:S:238:ASP:OD1	1:S:239:ARG:N	2.48	0.46
1:D:356:VAL:CG2	1:T:438:ASN:HB2	117.73	0.46
1:S:438:ASN:HB2	1:U:356:VAL:CG2	2.46	0.46
1:U:438:ASN:HB2	1:V:356:VAL:CG2	47.40	0.46
1:V:356:VAL:CG2	1:X:438:ASN:HB2	2.46	0.46
1:U:481:LEU:CD1	1:V:636:LEU:HD11	64.79	0.46
1:Z:238:ASP:OD1	1:Z:239:ARG:N	2.48	0.46
1:Z:636:LEU:HD11	1:3:481:LEU:CD1	2.45	0.46
1:3:307:TRP:O	1:3:426:SER:CB	2.59	0.46
1:5:438:ASN:HB2	1:6:356:VAL:CG2	2.46	0.46
1:7:564:SER:OG	1:7:566:GLU:HG2	2.15	0.46
1:D:251:PRO:HG3	1:D:374:MET:HE3	1.98	0.46
1:J:438:ASN:HB2	1:L:356:VAL:CG2	2.46	0.46
1:M:238:ASP:OD1	1:M:239:ARG:N	2.48	0.46
1:N:481:LEU:CD1	1:O:636:LEU:HD11	64.79	0.46
1:D:481:LEU:CD1	1:N:636:LEU:HD11	2.45	0.46
1:O:434:ASP:N	1:O:434:ASP:OD1	2.41	0.46
1:O:564:SER:OG	1:O:566:GLU:HG2	2.15	0.46
1:P:238:ASP:OD1	1:P:239:ARG:N	2.48	0.46
1:F:356:VAL:CG2	1:Q:438:ASN:HB2	2.46	0.46
1:R:438:ASN:HB2	1:S:356:VAL:CG2	2.46	0.46
1:D:383:LEU:HG	1:T:430:SER:O	117.10	0.46
1:U:429:HIS:HD2	1:U:610:GLN:OE1	1.94	0.46
1:W:430:SER:O	1:Y:383:LEU:HG	2.15	0.46
1:Z:481:LEU:CD1	1:4:636:LEU:HD11	2.45	0.46
1:2:251:PRO:HG3	1:2:374:MET:HE3	1.98	0.46
1:3:636:LEU:HD11	1:4:481:LEU:CD1	2.46	0.46
1:5:485:CYS:HB2	1:5:573:PRO:HG3	1.97	0.46
1:K:402:PRO:CG	1:7:232:ASP:HB3	2.46	0.46
1:5:636:LEU:HD11	1:7:481:LEU:CD1	2.45	0.46
1:8:307:TRP:O	1:8:426:SER:CB	2.59	0.46
1:K:383:LEU:HG	1:8:430:SER:O	2.16	0.46
1:8:564:SER:OG	1:8:566:GLU:HG2	2.15	0.46
1:C:356:VAL:CG2	1:M:438:ASN:HB2	2.46	0.46
1:C:356:VAL:CG2	1:P:438:ASN:HB2	46.03	0.46
1:D:383:LEU:HG	1:P:430:SER:O	2.16	0.46
1:E:481:LEU:CD1	1:Q:636:LEU:HD11	2.45	0.46
1:J:238:ASP:OD1	1:J:239:ARG:N	2.48	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:438:ASN:HB2	1:J:356:VAL:CG2	62.42	0.46
1:L:434:ASP:N	1:L:434:ASP:OD1	2.41	0.46
1:M:526:MET:HE1	1:M:575:ALA:HA	1.97	0.46
1:T:356:VAL:CG2	1:V:438:ASN:HB2	75.78	0.46
1:T:438:ASN:HB2	1:U:356:VAL:CG2	62.42	0.46
1:R:356:VAL:CG2	1:U:438:ASN:HB2	2.46	0.46
1:T:481:LEU:CD1	1:U:636:LEU:HD11	73.03	0.46
1:U:307:TRP:CE2	1:U:692:GLU:HG2	2.51	0.46
1:V:307:TRP:CE2	1:V:692:GLU:HG2	2.51	0.46
1:W:490:ARG:NE	1:Y:586:LEU:HD11	34.18	0.46
1:W:609:TRP:NE1	1:Y:629:GLY:CA	2.58	0.46
1:H:636:LEU:HD11	1:Y:481:LEU:CD1	2.45	0.46
1:Z:356:VAL:CG2	1:3:438:ASN:HB2	2.46	0.46
1:4:300:GLN:NE2	1:4:703:TYR:O	2.45	0.46
1:B:430:SER:O	1:J:383:LEU:HG	2.15	0.46
1:B:481:LEU:CD1	1:M:636:LEU:HD11	103.17	0.46
1:F:382:THR:HG22	1:F:383:LEU:N	2.29	0.46
1:H:307:TRP:CE2	1:H:692:GLU:HG2	2.51	0.46
1:K:402:PRO:CG	1:W:232:ASP:HB3	154.68	0.46
1:A:383:LEU:HG	1:K:430:SER:O	92.75	0.46
1:A:356:VAL:CG2	1:K:438:ASN:HB2	104.37	0.46
1:N:429:HIS:HD2	1:N:610:GLN:OE1	1.94	0.46
1:N:307:TRP:CE2	1:N:692:GLU:HG2	2.51	0.46
1:P:564:SER:OG	1:P:566:GLU:HG2	2.15	0.46
1:Q:430:SER:O	1:R:383:LEU:HG	58.20	0.46
1:S:307:TRP:CE2	1:S:692:GLU:HG2	2.52	0.46
1:W:307:TRP:CE2	1:W:692:GLU:HG2	2.51	0.46
1:V:629:GLY:CA	1:X:609:TRP:NE1	2.58	0.46
1:X:307:TRP:CE2	1:X:692:GLU:HG2	2.52	0.46
1:Z:307:TRP:CE2	1:Z:692:GLU:HG2	2.51	0.46
1:1:564:SER:OG	1:1:566:GLU:HG2	2.15	0.45
1:4:307:TRP:CE2	1:4:692:GLU:HG2	2.51	0.45
1:5:402:PRO:CG	1:8:232:ASP:HB3	2.46	0.45
1:8:238:ASP:OD1	1:8:239:ARG:N	2.48	0.45
1:A:307:TRP:CE2	1:A:692:GLU:HG2	2.52	0.45
1:G:609:TRP:NE1	1:I:629:GLY:CA	2.58	0.45
1:F:438:ASN:HB2	1:H:356:VAL:CG2	126.54	0.45
1:J:609:TRP:NE1	1:L:629:GLY:CA	2.58	0.45
1:B:481:LEU:CD1	1:J:636:LEU:HD11	2.45	0.45
1:J:616:LEU:HD22	1:J:729:ILE:HD12	1.99	0.45
1:L:307:TRP:CE2	1:L:692:GLU:HG2	2.51	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:430:SER:O	1:L:383:LEU:HG	129.37	0.45
1:B:430:SER:O	1:M:383:LEU:HG	121.35	0.45
1:M:307:TRP:CE2	1:M:692:GLU:HG2	2.52	0.45
1:O:307:TRP:CE2	1:O:692:GLU:HG2	2.51	0.45
1:M:356:VAL:CG2	1:O:438:ASN:HB2	75.79	0.45
1:P:232:ASP:HB3	1:Q:402:PRO:CG	2.46	0.45
1:Q:307:TRP:CE2	1:Q:692:GLU:HG2	2.52	0.45
1:T:636:LEU:HD11	1:V:481:LEU:CD1	106.47	0.45
1:V:251:PRO:HG3	1:V:374:MET:HE3	1.98	0.45
1:E:383:LEU:HG	1:V:430:SER:O	129.87	0.45
1:V:402:PRO:CG	1:W:232:ASP:HB3	2.46	0.45
1:1:238:ASP:OD1	1:1:239:ARG:N	2.48	0.45
1:3:564:SER:OG	1:3:566:GLU:HG2	2.15	0.45
1:3:585:ASN:OD1	1:3:594:ILE:N	2.45	0.45
1:6:564:SER:OG	1:6:566:GLU:HG2	2.15	0.45
1:A:290:PHE:O	1:A:293:HIS:N	2.47	0.45
1:B:307:TRP:CE2	1:B:692:GLU:HG2	2.51	0.45
1:C:307:TRP:CE2	1:C:692:GLU:HG2	2.51	0.45
1:E:490:ARG:NH1	1:V:586:LEU:HD21	175.31	0.45
1:G:356:VAL:CG2	1:H:438:ASN:HB2	47.40	0.45
1:F:629:GLY:CA	1:G:609:TRP:CD1	81.78	0.45
1:G:616:LEU:HD22	1:G:729:ILE:HD12	1.99	0.45
1:I:616:LEU:HD22	1:I:729:ILE:HD12	1.99	0.45
1:J:307:TRP:CE2	1:J:692:GLU:HG2	2.52	0.45
1:K:307:TRP:CE2	1:K:692:GLU:HG2	2.52	0.45
1:D:430:SER:O	1:N:383:LEU:HG	2.15	0.45
1:O:290:PHE:O	1:O:293:HIS:N	2.47	0.45
1:T:564:SER:OG	1:T:566:GLU:HG2	2.15	0.45
1:U:427:TYR:HD1	1:U:427:TYR:O	2.00	0.45
1:R:402:PRO:CG	1:V:232:ASP:HB3	2.46	0.45
1:X:258:TYR:OH	1:X:399:GLU:OE1	2.22	0.45
1:Y:616:LEU:HD22	1:Y:729:ILE:HD12	1.99	0.45
1:Z:430:SER:O	1:4:383:LEU:HG	2.15	0.45
1:V:402:PRO:CG	1:1:232:ASP:HB3	142.50	0.45
1:2:427:TYR:HD1	1:2:427:TYR:O	2.00	0.45
1:3:526:MET:HE1	1:3:575:ALA:HA	1.99	0.45
1:4:382:THR:HG22	1:4:383:LEU:N	2.29	0.45
1:5:383:LEU:HG	1:7:430:SER:O	2.15	0.45
1:A:430:SER:O	1:8:383:LEU:HG	153.37	0.45
1:D:307:TRP:CE2	1:D:692:GLU:HG2	2.52	0.45
1:D:427:TYR:HD1	1:D:427:TYR:O	2.00	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:427:TYR:HD1	1:E:427:TYR:O	2.00	0.45
1:F:307:TRP:CE2	1:F:692:GLU:HG2	2.52	0.45
1:G:427:TYR:HD1	1:G:427:TYR:O	2.00	0.45
1:J:434:ASP:OD1	1:J:434:ASP:N	2.41	0.45
1:K:427:TYR:O	1:K:427:TYR:HD1	2.00	0.45
1:K:435:ARG:HA	1:K:435:ARG:HD3	1.79	0.45
1:K:490:ARG:NH1	1:8:586:LEU:HD21	2.31	0.45
1:C:636:LEU:HD11	1:M:481:LEU:CD1	2.45	0.45
1:M:616:LEU:HD22	1:M:729:ILE:HD12	1.99	0.45
1:N:329:ASN:O	1:N:332:THR:OG1	2.31	0.45
1:N:382:THR:HG22	1:N:383:LEU:N	2.29	0.45
1:P:427:TYR:O	1:P:427:TYR:HD1	2.00	0.45
1:D:554:ASN:HB3	1:P:464:LEU:HD23	1.98	0.45
1:Q:382:THR:HG22	1:Q:383:LEU:N	2.29	0.45
1:R:616:LEU:HD22	1:R:729:ILE:HD12	1.99	0.45
1:L:430:SER:O	1:T:383:LEU:HG	205.55	0.45
1:L:481:LEU:CD1	1:T:636:LEU:HD11	203.73	0.45
1:R:636:LEU:HD11	1:U:481:LEU:CD1	2.45	0.45
1:V:427:TYR:HD1	1:V:427:TYR:O	2.00	0.45
1:X:464:LEU:HD23	1:Y:554:ASN:HB3	101.16	0.45
1:H:356:VAL:CG2	1:Y:438:ASN:HB2	2.46	0.45
1:Z:383:LEU:HG	1:2:430:SER:O	80.13	0.45
1:Z:481:LEU:CD1	1:1:636:LEU:HD11	86.46	0.45
1:A:527:ALA:O	1:A:575:ALA:N	2.45	0.45
1:D:435:ARG:HD3	1:D:435:ARG:HA	1.79	0.45
1:D:429:HIS:HD2	1:D:610:GLN:OE1	1.94	0.45
1:D:616:LEU:HD22	1:D:729:ILE:HD12	1.99	0.45
1:E:435:ARG:HA	1:E:435:ARG:HD3	1.79	0.45
1:G:341:SER:HB3	1:G:675:GLN:NE2	2.32	0.45
1:H:438:ASN:HB2	1:W:356:VAL:CG2	2.46	0.45
1:I:356:VAL:CG2	1:K:438:ASN:HB2	75.80	0.45
1:J:438:ASN:HB2	1:K:356:VAL:CG2	47.40	0.45
1:K:616:LEU:HD22	1:K:729:ILE:HD12	1.99	0.45
1:J:481:LEU:CD1	1:L:636:LEU:HD11	2.45	0.45
1:L:402:PRO:CG	1:N:232:ASP:HB3	131.05	0.45
1:N:435:ARG:HA	1:N:435:ARG:HD3	1.79	0.45
1:C:438:ASN:HB2	1:O:356:VAL:CG2	152.95	0.45
1:O:616:LEU:HD22	1:O:729:ILE:HD12	1.99	0.45
1:N:438:ASN:HB2	1:P:356:VAL:CG2	2.46	0.45
1:N:430:SER:O	1:P:383:LEU:HG	2.16	0.45
1:D:490:ARG:NH1	1:P:586:LEU:HD21	2.31	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:R:307:TRP:CE2	1:R:692:GLU:HG2	2.52	0.45
1:S:616:LEU:HD22	1:S:729:ILE:HD12	1.99	0.45
1:T:232:ASP:HB3	1:6:402:PRO:CG	168.01	0.45
1:U:382:THR:HG22	1:U:383:LEU:N	2.29	0.45
1:U:616:LEU:HD22	1:U:729:ILE:HD12	1.99	0.45
1:W:427:TYR:O	1:W:427:TYR:HD1	2.00	0.45
1:E:438:ASN:HB2	1:X:356:VAL:CG2	152.15	0.45
1:3:616:LEU:HD22	1:3:729:ILE:HD12	1.99	0.45
1:A:438:ASN:HB2	1:8:356:VAL:CG2	156.60	0.45
1:K:554:ASN:HB3	1:8:464:LEU:HD23	1.98	0.45
1:A:356:VAL:CG2	1:I:438:ASN:HB2	2.46	0.45
1:A:616:LEU:HD22	1:A:729:ILE:HD12	1.99	0.45
1:E:430:SER:O	1:Q:383:LEU:HG	2.15	0.45
1:A:586:LEU:HD21	1:G:490:ARG:NH1	2.32	0.45
1:I:341:SER:HB3	1:I:675:GLN:NE2	2.32	0.45
1:K:527:ALA:O	1:K:575:ALA:N	2.45	0.45
1:M:434:ASP:OD1	1:M:434:ASP:N	2.41	0.45
1:M:430:SER:O	1:N:383:LEU:HG	38.12	0.45
1:P:527:ALA:O	1:P:575:ALA:N	2.45	0.45
1:Q:356:VAL:CG2	1:S:438:ASN:HB2	95.33	0.45
1:Q:427:TYR:O	1:Q:427:TYR:HD1	2.00	0.45
1:F:402:PRO:CG	1:R:232:ASP:HB3	2.47	0.45
1:R:341:SER:HB3	1:R:675:GLN:NE2	2.32	0.45
1:T:232:ASP:HB3	1:U:402:PRO:CG	2.47	0.45
1:T:307:TRP:CE2	1:T:692:GLU:HG2	2.52	0.45
1:T:382:THR:HG22	1:T:383:LEU:N	2.29	0.45
1:1:382:THR:HG22	1:1:383:LEU:N	2.29	0.45
1:2:429:HIS:HD2	1:2:610:GLN:OE1	1.95	0.45
1:3:341:SER:HB3	1:3:675:GLN:NE2	2.32	0.45
1:Z:402:PRO:CG	1:4:232:ASP:HB3	72.76	0.45
1:4:427:TYR:HD1	1:4:427:TYR:O	2.00	0.45
1:5:427:TYR:O	1:5:427:TYR:HD1	2.00	0.45
1:6:341:SER:HB3	1:6:675:GLN:NE2	2.32	0.45
1:B:232:ASP:HB3	1:O:402:PRO:CG	135.04	0.45
1:E:527:ALA:O	1:E:575:ALA:N	2.45	0.45
1:E:526:MET:HE1	1:E:575:ALA:HA	1.97	0.45
1:F:232:ASP:HB3	1:X:402:PRO:CG	111.83	0.45
1:F:341:SER:HB3	1:F:675:GLN:NE2	2.32	0.45
1:H:427:TYR:O	1:H:427:TYR:HD1	2.00	0.45
1:F:586:LEU:HD21	1:H:490:ARG:NH1	147.85	0.45
1:I:609:TRP:CD1	1:J:629:GLY:CA	54.84	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:629:GLY:CA	1:I:609:TRP:NE1	2.59	0.45
1:A:629:GLY:CA	1:K:609:TRP:CD1	106.47	0.45
1:L:341:SER:HB3	1:L:675:GLN:NE2	2.32	0.45
1:L:616:LEU:HD22	1:L:729:ILE:HD12	1.99	0.45
1:M:251:PRO:HG3	1:M:374:MET:HE3	1.99	0.45
1:C:629:GLY:CA	1:M:609:TRP:NE1	2.58	0.45
1:N:427:TYR:HD1	1:N:427:TYR:O	2.00	0.45
1:O:341:SER:HB3	1:O:675:GLN:NE2	2.32	0.45
1:P:616:LEU:HD22	1:P:729:ILE:HD12	1.99	0.45
1:D:402:PRO:CG	1:S:232:ASP:HB3	94.65	0.45
1:S:427:TYR:HD1	1:S:427:TYR:O	2.00	0.45
1:T:290:PHE:O	1:T:293:HIS:N	2.47	0.45
1:T:341:SER:HB3	1:T:675:GLN:NE2	2.32	0.45
1:V:616:LEU:HD22	1:V:729:ILE:HD12	1.99	0.45
1:W:381:LEU:HD21	1:Y:439:PRO:HB3	54.71	0.45
1:W:435:ARG:HA	1:W:435:ARG:HD3	1.79	0.45
1:Y:427:TYR:O	1:Y:427:TYR:HD1	2.00	0.45
1:Z:427:TYR:HD1	1:Z:427:TYR:O	2.00	0.45
1:Z:430:SER:O	1:1:383:LEU:HG	98.59	0.45
1:Z:616:LEU:HD22	1:Z:729:ILE:HD12	1.99	0.45
1:3:527:ALA:O	1:3:575:ALA:N	2.45	0.45
1:7:427:TYR:O	1:7:427:TYR:CD1	2.70	0.45
1:7:616:LEU:HD22	1:7:729:ILE:HD12	1.99	0.45
1:8:616:LEU:HD22	1:8:729:ILE:HD12	1.99	0.45
1:A:341:SER:HB3	1:A:675:GLN:NE2	2.32	0.45
1:A:490:ARG:NH1	1:K:586:LEU:HD21	162.28	0.45
1:C:616:LEU:HD22	1:C:729:ILE:HD12	1.99	0.45
1:E:427:TYR:CD1	1:E:427:TYR:O	2.70	0.45
1:F:427:TYR:O	1:F:427:TYR:HD1	2.00	0.45
1:F:616:LEU:HD22	1:F:729:ILE:HD12	1.99	0.45
1:G:490:ARG:NH1	1:H:586:LEU:HD21	82.11	0.45
1:I:251:PRO:HG3	1:I:374:MET:HE3	1.99	0.45
1:J:427:TYR:HD1	1:J:427:TYR:O	2.00	0.45
1:K:251:PRO:HG3	1:K:374:MET:HE3	1.98	0.45
1:B:402:PRO:CG	1:L:232:ASP:HB3	38.69	0.45
1:M:427:TYR:O	1:M:427:TYR:HD1	2.00	0.45
1:N:585:ASN:OD1	1:N:594:ILE:N	2.45	0.45
1:N:616:LEU:HD22	1:N:729:ILE:HD12	1.99	0.45
1:C:490:ARG:NH1	1:P:586:LEU:HD21	85.40	0.45
1:U:232:ASP:HB3	1:2:402:PRO:CG	145.84	0.45
1:U:342:THR:HG22	1:U:407:ARG:CG	2.47	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:V:342:THR:HG22	1:V:407:ARG:CG	2.47	0.45
1:V:435:ARG:HA	1:V:435:ARG:HD3	1.79	0.45
1:W:616:LEU:HD22	1:W:729:ILE:HD12	1.99	0.45
1:Z:341:SER:HB3	1:Z:675:GLN:NE2	2.32	0.45
1:1:427:TYR:HD1	1:1:427:TYR:O	2.00	0.45
1:2:307:TRP:CE2	1:2:692:GLU:HG2	2.52	0.45
1:3:427:TYR:O	1:3:427:TYR:CD1	2.70	0.45
1:5:382:THR:HG22	1:5:383:LEU:N	2.29	0.45
1:6:342:THR:HG22	1:6:407:ARG:CG	2.47	0.45
1:6:621:TRP:CH2	1:6:646:PRO:HG2	2.52	0.45
1:6:616:LEU:HD22	1:6:729:ILE:HD12	1.99	0.45
1:8:527:ALA:O	1:8:575:ALA:N	2.45	0.45
1:8:307:TRP:CE2	1:8:692:GLU:HG2	2.51	0.45
1:A:427:TYR:HD1	1:A:427:TYR:O	2.00	0.45
1:B:402:PRO:CG	1:C:232:ASP:HB3	2.46	0.45
1:C:427:TYR:O	1:C:427:TYR:CD1	2.70	0.45
1:C:609:TRP:NE1	1:O:629:GLY:CA	132.10	0.45
1:D:342:THR:HG22	1:D:407:ARG:CG	2.47	0.45
1:D:586:LEU:HD21	1:L:490:ARG:NH1	147.85	0.45
1:D:586:LEU:HD21	1:N:490:ARG:NH1	2.32	0.45
1:E:307:TRP:CE2	1:E:692:GLU:HG2	2.51	0.45
1:E:616:LEU:HD22	1:E:729:ILE:HD12	1.99	0.45
1:F:342:THR:HG22	1:F:407:ARG:CG	2.47	0.45
1:G:307:TRP:CE2	1:G:692:GLU:HG2	2.52	0.45
1:G:586:LEU:HD21	1:I:490:ARG:NH1	2.32	0.45
1:J:704:THR:HB	1:W:702:GLN:HB2	149.52	0.45
1:K:342:THR:HG22	1:K:407:ARG:CG	2.47	0.45
1:J:586:LEU:HD21	1:K:490:ARG:NH1	82.11	0.45
1:L:427:TYR:O	1:L:427:TYR:CD1	2.70	0.45
1:B:629:GLY:CA	1:L:609:TRP:CD1	2.85	0.45
1:L:621:TRP:CH2	1:L:646:PRO:HG2	2.52	0.45
1:M:220:ASP:N	1:M:220:ASP:OD1	2.50	0.45
1:M:341:SER:HB3	1:M:675:GLN:NE2	2.32	0.45
1:O:427:TYR:CD1	1:O:427:TYR:O	2.70	0.45
1:P:307:TRP:CE2	1:P:692:GLU:HG2	2.51	0.45
1:Q:232:ASP:HB3	1:S:402:PRO:CG	2.47	0.45
1:F:490:ARG:NH1	1:Q:586:LEU:HD21	2.32	0.45
1:R:290:PHE:O	1:R:293:HIS:N	2.47	0.45
1:S:220:ASP:OD1	1:S:220:ASP:N	2.50	0.45
1:C:402:PRO:CG	1:S:232:ASP:HB3	118.52	0.45
1:T:427:TYR:O	1:T:427:TYR:HD1	2.00	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:U:220:ASP:OD1	1:U:220:ASP:N	2.50	0.45
1:U:621:TRP:CH2	1:U:646:PRO:HG2	2.52	0.45
1:V:383:LEU:HG	1:X:430:SER:O	2.16	0.45
1:V:621:TRP:CH2	1:V:646:PRO:HG2	2.52	0.45
1:W:527:ALA:O	1:W:575:ALA:N	2.45	0.45
1:X:342:THR:HG22	1:X:407:ARG:CG	2.47	0.45
1:X:621:TRP:CH2	1:X:646:PRO:HG2	2.52	0.45
1:Z:220:ASP:N	1:Z:220:ASP:OD1	2.50	0.45
1:1:342:THR:HG22	1:1:407:ARG:CG	2.47	0.45
1:Z:490:ARG:NH1	1:2:586:LEU:HD21	108.38	0.45
1:3:435:ARG:HD3	1:3:435:ARG:HA	1.79	0.45
1:4:427:TYR:O	1:4:427:TYR:CD1	2.70	0.45
1:4:616:LEU:HD22	1:4:729:ILE:HD12	1.99	0.45
1:U:402:PRO:CG	1:5:232:ASP:HB3	169.57	0.45
1:5:342:THR:HG22	1:5:407:ARG:CG	2.47	0.45
1:5:586:LEU:HD21	1:6:490:ARG:NH1	2.32	0.45
1:7:307:TRP:CE2	1:7:692:GLU:HG2	2.51	0.45
1:8:224:SER:OG	1:8:225:SER:N	2.50	0.45
1:8:329:ASN:CA	1:8:330:GLU:OE1	2.65	0.45
1:C:342:THR:HG22	1:C:407:ARG:CG	2.47	0.45
1:C:586:LEU:HD21	1:O:490:ARG:NH1	133.98	0.45
1:E:224:SER:OG	1:E:225:SER:N	2.50	0.45
1:F:621:TRP:CH2	1:F:646:PRO:HG2	2.52	0.45
1:H:224:SER:OG	1:H:225:SER:N	2.50	0.45
1:H:232:ASP:HB3	1:I:402:PRO:CG	2.46	0.45
1:H:527:ALA:O	1:H:575:ALA:N	2.45	0.45
1:H:609:TRP:CD1	1:W:629:GLY:CA	2.85	0.45
1:I:307:TRP:CE2	1:I:692:GLU:HG2	2.51	0.45
1:I:342:THR:HG22	1:I:407:ARG:CG	2.47	0.45
1:I:490:ARG:NH1	1:K:586:LEU:HD21	134.89	0.45
1:J:341:SER:HB3	1:J:675:GLN:NE2	2.32	0.45
1:J:621:TRP:CH2	1:J:646:PRO:HG2	2.52	0.45
1:K:329:ASN:CA	1:K:330:GLU:OE1	2.65	0.45
1:K:621:TRP:CH2	1:K:646:PRO:HG2	2.52	0.45
1:N:427:TYR:CD1	1:N:427:TYR:O	2.70	0.45
1:N:621:TRP:CH2	1:N:646:PRO:HG2	2.52	0.45
1:O:435:ARG:HA	1:O:435:ARG:HD3	1.79	0.45
1:O:527:ALA:O	1:O:575:ALA:N	2.45	0.45
1:P:224:SER:OG	1:P:225:SER:N	2.50	0.45
1:P:329:ASN:CA	1:P:330:GLU:OE1	2.65	0.45
1:Q:342:THR:HG22	1:Q:407:ARG:CG	2.47	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:R:224:SER:OG	1:R:225:SER:N	2.50	0.45
1:S:224:SER:OG	1:S:225:SER:N	2.50	0.45
1:S:329:ASN:CA	1:S:330:GLU:OE1	2.65	0.45
1:T:342:THR:HG22	1:T:407:ARG:CG	2.47	0.45
1:W:224:SER:OG	1:W:225:SER:N	2.50	0.45
1:W:427:TYR:O	1:W:427:TYR:CD1	2.70	0.45
1:W:480:TRP:CH2	1:X:624:ILE:HG12	59.23	0.45
1:Y:224:SER:OG	1:Y:225:SER:N	2.50	0.45
1:Y:341:SER:HB3	1:Y:675:GLN:NE2	2.32	0.45
1:X:586:LEU:HD21	1:Y:490:ARG:NH1	113.84	0.45
1:Z:427:TYR:O	1:Z:427:TYR:CD1	2.70	0.45
1:Z:621:TRP:CH2	1:Z:646:PRO:HG2	2.52	0.45
1:1:427:TYR:O	1:1:427:TYR:CD1	2.70	0.45
1:1:453:SER:OG	1:1:458:GLN:O	2.36	0.45
1:4:244:SER:C	1:4:245:THR:HG1	2.20	0.45
1:4:329:ASN:CA	1:4:330:GLU:OE1	2.65	0.45
1:4:621:TRP:CH2	1:4:646:PRO:HG2	2.52	0.45
1:5:224:SER:OG	1:5:225:SER:N	2.50	0.45
1:8:427:TYR:O	1:8:427:TYR:HD1	2.00	0.45
1:8:453:SER:OG	1:8:458:GLN:O	2.35	0.45
1:B:586:LEU:HD21	1:J:490:ARG:NH1	2.32	0.45
1:B:586:LEU:HD21	1:M:490:ARG:NH1	113.08	0.45
1:C:224:SER:OG	1:C:225:SER:N	2.50	0.45
1:C:290:PHE:O	1:C:293:HIS:N	2.47	0.45
1:C:621:TRP:CH2	1:C:646:PRO:HG2	2.52	0.45
1:D:329:ASN:CA	1:D:330:GLU:OE1	2.65	0.45
1:D:609:TRP:CD1	1:N:629:GLY:CA	2.85	0.45
1:F:609:TRP:O	1:F:609:TRP:CD1	2.71	0.45
1:G:427:TYR:CD1	1:G:427:TYR:O	2.70	0.45
1:H:220:ASP:OD1	1:H:220:ASP:N	2.50	0.45
1:H:251:PRO:HG3	1:H:374:MET:HE3	2.02	0.45
1:H:329:ASN:CA	1:H:330:GLU:OE1	2.65	0.45
1:H:427:TYR:CD1	1:H:427:TYR:O	2.70	0.45
1:H:621:TRP:CH2	1:H:646:PRO:HG2	2.52	0.45
1:H:616:LEU:HD22	1:H:729:ILE:HD12	1.99	0.45
1:I:427:TYR:O	1:I:427:TYR:HD1	2.00	0.45
1:K:427:TYR:O	1:K:427:TYR:CD1	2.70	0.45
1:L:224:SER:OG	1:L:225:SER:N	2.50	0.45
1:J:586:LEU:HD21	1:L:490:ARG:NH1	2.32	0.45
1:M:490:ARG:NH1	1:O:586:LEU:HD21	134.89	0.45
1:M:527:ALA:O	1:M:575:ALA:N	2.45	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:621:TRP:CH2	1:M:646:PRO:HG2	2.52	0.45
1:N:329:ASN:CA	1:N:330:GLU:OE1	2.65	0.45
1:O:427:TYR:O	1:O:427:TYR:HD1	2.00	0.45
1:Q:224:SER:OG	1:Q:225:SER:N	2.50	0.45
1:Q:341:SER:HB3	1:Q:675:GLN:NE2	2.32	0.45
1:T:220:ASP:OD1	1:T:220:ASP:N	2.50	0.45
1:T:453:SER:OG	1:T:458:GLN:O	2.36	0.45
1:D:490:ARG:NH1	1:T:586:LEU:HD21	150.92	0.45
1:X:430:SER:O	1:Y:383:LEU:HG	38.13	0.45
1:X:609:TRP:CD1	1:X:609:TRP:O	2.70	0.45
1:W:586:LEU:HD21	1:Y:490:ARG:NH1	2.32	0.45
1:Y:621:TRP:CH2	1:Y:646:PRO:HG2	2.52	0.45
1:1:220:ASP:N	1:1:220:ASP:OD1	2.50	0.44
1:1:307:TRP:CE2	1:1:692:GLU:HG2	2.52	0.44
1:1:586:LEU:HD21	1:2:490:ARG:NH1	2.32	0.44
1:2:585:ASN:OD1	1:2:594:ILE:N	2.45	0.44
1:Z:490:ARG:NH1	1:3:586:LEU:HD21	2.32	0.44
1:5:609:TRP:CD1	1:5:609:TRP:O	2.70	0.44
1:5:307:TRP:CE2	1:5:692:GLU:HG2	2.52	0.44
1:5:616:LEU:HD22	1:5:729:ILE:HD12	1.99	0.44
1:6:427:TYR:CD1	1:6:427:TYR:O	2.70	0.44
1:6:609:TRP:O	1:6:609:TRP:CD1	2.71	0.44
1:7:427:TYR:O	1:7:427:TYR:HD1	2.00	0.44
1:A:342:THR:HG22	1:A:407:ARG:CG	2.47	0.44
1:A:464:LEU:HD23	1:G:554:ASN:HB3	1.99	0.44
1:B:340:THR:CB	1:B:407:ARG:HH21	2.20	0.44
1:B:427:TYR:O	1:B:427:TYR:CD1	2.70	0.44
1:B:609:TRP:O	1:B:609:TRP:CD1	2.70	0.44
1:C:427:TYR:O	1:C:427:TYR:HD1	2.00	0.44
1:C:490:ARG:NH1	1:M:586:LEU:HD21	2.32	0.44
1:D:609:TRP:NE1	1:N:629:GLY:CA	2.58	0.44
1:E:621:TRP:CH2	1:E:646:PRO:HG2	2.52	0.44
1:F:427:TYR:CD1	1:F:427:TYR:O	2.70	0.44
1:G:342:THR:HG22	1:G:407:ARG:CG	2.47	0.44
1:G:426:SER:O	1:G:732:ARG:HA	2.18	0.44
1:G:453:SER:OG	1:G:458:GLN:O	2.36	0.44
1:H:490:ARG:NH1	1:Y:586:LEU:HD21	2.32	0.44
1:I:224:SER:OG	1:I:225:SER:N	2.50	0.44
1:I:427:TYR:O	1:I:427:TYR:CD1	2.70	0.44
1:I:453:SER:OG	1:I:458:GLN:O	2.35	0.44
1:J:453:SER:OG	1:J:458:GLN:O	2.36	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:609:TRP:CD1	1:J:609:TRP:O	2.70	0.44
1:L:290:PHE:O	1:L:293:HIS:N	2.47	0.44
1:M:427:TYR:O	1:M:427:TYR:CD1	2.70	0.44
1:O:342:THR:HG22	1:O:407:ARG:CG	2.47	0.44
1:P:453:SER:OG	1:P:458:GLN:O	2.36	0.44
1:Q:609:TRP:CD1	1:Q:609:TRP:O	2.70	0.44
1:R:329:ASN:CA	1:R:330:GLU:OE1	2.65	0.44
1:R:609:TRP:O	1:R:609:TRP:CD1	2.70	0.44
1:R:621:TRP:CH2	1:R:646:PRO:HG2	2.52	0.44
1:R:586:LEU:HD21	1:S:490:ARG:NH1	2.32	0.44
1:S:621:TRP:CH2	1:S:646:PRO:HG2	2.52	0.44
1:T:329:ASN:CA	1:T:330:GLU:OE1	2.65	0.44
1:T:427:TYR:CD1	1:T:427:TYR:O	2.70	0.44
1:V:220:ASP:N	1:V:220:ASP:OD1	2.50	0.44
1:V:427:TYR:CD1	1:V:427:TYR:O	2.70	0.44
1:E:554:ASN:HB3	1:V:464:LEU:HD23	189.11	0.44
1:W:341:SER:HB3	1:W:675:GLN:NE2	2.32	0.44
1:E:736:ARG:NH2	1:X:626:HIS:CD2	134.92	0.44
1:Y:427:TYR:O	1:Y:427:TYR:CD1	2.70	0.44
1:Y:435:ARG:HD3	1:Y:435:ARG:HA	1.79	0.44
1:Y:609:TRP:CD1	1:Y:609:TRP:O	2.71	0.44
1:1:429:HIS:CE1	1:2:627:THR:HG22	2.53	0.44
1:2:224:SER:OG	1:2:225:SER:N	2.50	0.44
1:2:427:TYR:CD1	1:2:427:TYR:O	2.70	0.44
1:2:435:ARG:HD3	1:2:435:ARG:HA	1.79	0.44
1:Z:554:ASN:HB3	1:2:464:LEU:HD23	117.92	0.44
1:6:224:SER:OG	1:6:225:SER:N	2.50	0.44
1:5:627:THR:HG22	1:7:429:HIS:CE1	2.53	0.44
1:7:621:TRP:CH2	1:7:646:PRO:HG2	2.52	0.44
1:A:244:SER:C	1:A:245:THR:HG1	2.20	0.44
1:A:490:ARG:NH1	1:I:586:LEU:HD21	2.33	0.44
1:A:621:TRP:CH2	1:A:646:PRO:HG2	2.52	0.44
1:B:341:SER:HB3	1:B:675:GLN:NE2	2.32	0.44
1:B:427:TYR:HD1	1:B:427:TYR:O	2.00	0.44
1:C:232:ASP:HB3	1:M:402:PRO:CG	72.77	0.44
1:C:329:ASN:CA	1:C:330:GLU:OE1	2.65	0.44
1:D:224:SER:OG	1:D:225:SER:N	2.50	0.44
1:D:427:TYR:CD1	1:D:427:TYR:O	2.70	0.44
1:D:627:THR:HG22	1:T:429:HIS:CE1	113.28	0.44
1:E:609:TRP:CD1	1:E:609:TRP:O	2.71	0.44
1:F:224:SER:OG	1:F:225:SER:N	2.50	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:224:SER:OG	1:G:225:SER:N	2.50	0.44
1:I:220:ASP:OD1	1:I:220:ASP:N	2.50	0.44
1:I:329:ASN:CA	1:I:330:GLU:OE1	2.65	0.44
1:I:426:SER:O	1:I:732:ARG:HA	2.18	0.44
1:J:527:ALA:O	1:J:575:ALA:N	2.45	0.44
1:K:340:THR:HB	1:W:322:GLN:HB3	169.68	0.44
1:K:585:ASN:OD1	1:K:594:ILE:N	2.45	0.44
1:D:464:LEU:HD23	1:L:554:ASN:HB3	152.53	0.44
1:O:586:LEU:HD21	1:P:490:ARG:NH1	113.85	0.44
1:Q:586:LEU:HD21	1:R:490:ARG:NH1	82.11	0.44
1:R:342:THR:HG22	1:R:407:ARG:CG	2.47	0.44
1:R:427:TYR:CD1	1:R:427:TYR:O	2.70	0.44
1:T:609:TRP:O	1:T:609:TRP:CD1	2.70	0.44
1:V:609:TRP:CD1	1:V:609:TRP:O	2.71	0.44
1:U:736:ARG:NH2	1:V:626:HIS:CD2	52.27	0.44
1:W:609:TRP:CD1	1:W:609:TRP:O	2.70	0.44
1:H:429:HIS:CE1	1:W:627:THR:HG22	2.52	0.44
1:X:427:TYR:CD1	1:X:427:TYR:O	2.70	0.44
1:E:586:LEU:HD21	1:X:490:ARG:NH1	135.24	0.44
1:Y:329:ASN:CA	1:Y:330:GLU:OE1	2.65	0.44
1:Z:258:TYR:OH	1:Z:399:GLU:OE1	2.22	0.44
1:3:329:ASN:CA	1:3:330:GLU:OE1	2.65	0.44
1:3:307:TRP:CE2	1:3:692:GLU:HG2	2.51	0.44
1:3:426:SER:O	1:3:732:ARG:HA	2.18	0.44
1:4:342:THR:HG22	1:4:407:ARG:CG	2.47	0.44
1:5:427:TYR:O	1:5:427:TYR:CD1	2.70	0.44
1:8:342:THR:HG22	1:8:407:ARG:CG	2.47	0.44
1:B:554:ASN:HB3	1:L:464:LEU:HD23	2.00	0.44
1:C:220:ASP:OD1	1:C:220:ASP:N	2.50	0.44
1:B:554:ASN:HB3	1:C:464:LEU:HD23	101.16	0.44
1:B:629:GLY:CA	1:C:609:TRP:CD1	54.84	0.44
1:C:609:TRP:CD1	1:C:609:TRP:O	2.71	0.44
1:E:251:PRO:HG3	1:E:374:MET:HE3	2.02	0.44
1:E:464:LEU:HD23	1:X:554:ASN:HB3	169.26	0.44
1:F:453:SER:OG	1:F:458:GLN:O	2.35	0.44
1:F:426:SER:O	1:F:732:ARG:HA	2.18	0.44
1:G:329:ASN:CA	1:G:330:GLU:OE1	2.65	0.44
1:I:232:ASP:HB3	1:J:402:PRO:CG	2.47	0.44
1:A:554:ASN:HB3	1:I:464:LEU:HD23	2.00	0.44
1:J:220:ASP:N	1:J:220:ASP:OD1	2.50	0.44
1:J:426:SER:O	1:J:732:ARG:HA	2.18	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:426:SER:O	1:L:732:ARG:HA	2.18	0.44
1:L:586:LEU:HD21	1:T:490:ARG:NH1	229.16	0.44
1:M:426:SER:O	1:M:732:ARG:HA	2.18	0.44
1:N:244:SER:C	1:N:245:THR:HG1	2.24	0.44
1:N:453:SER:OG	1:N:458:GLN:O	2.36	0.44
1:O:329:ASN:CA	1:O:330:GLU:OE1	2.65	0.44
1:P:342:THR:HG22	1:P:407:ARG:CG	2.47	0.44
1:Q:427:TYR:O	1:Q:427:TYR:CD1	2.70	0.44
1:E:429:HIS:CE1	1:Q:627:THR:HG22	2.53	0.44
1:Q:616:LEU:HD22	1:Q:729:ILE:HD12	1.99	0.44
1:R:426:SER:O	1:R:732:ARG:HA	2.18	0.44
1:S:341:SER:HB3	1:S:675:GLN:NE2	2.32	0.44
1:Q:627:THR:HG22	1:S:429:HIS:CE1	88.79	0.44
1:T:426:SER:O	1:T:732:ARG:HA	2.18	0.44
1:U:426:SER:O	1:U:732:ARG:HA	2.18	0.44
1:U:609:TRP:O	1:U:609:TRP:CD1	2.71	0.44
1:R:402:PRO:CG	1:X:232:ASP:HB3	67.86	0.44
1:X:426:SER:O	1:X:732:ARG:HA	2.18	0.44
1:X:453:SER:OG	1:X:458:GLN:O	2.36	0.44
1:Y:342:THR:HG22	1:Y:407:ARG:CG	2.47	0.44
1:Y:307:TRP:CE2	1:Y:692:GLU:HG2	2.51	0.44
1:Z:224:SER:OG	1:Z:225:SER:N	2.50	0.44
1:Z:426:SER:O	1:Z:732:ARG:HA	2.18	0.44
1:Z:434:ASP:N	1:Z:434:ASP:OD1	2.41	0.44
1:1:609:TRP:O	1:1:609:TRP:CD1	2.70	0.44
1:4:609:TRP:CD1	1:4:609:TRP:O	2.71	0.44
1:6:329:ASN:CA	1:6:330:GLU:OE1	2.65	0.44
1:8:427:TYR:CD1	1:8:427:TYR:O	2.70	0.44
1:A:453:SER:OG	1:A:458:GLN:O	2.36	0.44
1:B:224:SER:OG	1:B:225:SER:N	2.50	0.44
1:A:402:PRO:CG	1:B:232:ASP:HB3	2.47	0.44
1:B:429:HIS:CE1	1:J:627:THR:HG22	2.53	0.44
1:B:453:SER:OG	1:B:458:GLN:O	2.36	0.44
1:B:616:LEU:HD22	1:B:729:ILE:HD12	1.99	0.44
1:C:453:SER:OG	1:C:458:GLN:O	2.36	0.44
1:C:464:LEU:HD23	1:O:554:ASN:HB3	168.69	0.44
1:C:426:SER:O	1:C:732:ARG:HA	2.18	0.44
1:D:244:SER:C	1:D:245:THR:HG1	2.21	0.44
1:D:453:SER:OG	1:D:458:GLN:O	2.36	0.44
1:D:585:ASN:OD1	1:D:594:ILE:N	2.45	0.44
1:F:220:ASP:OD1	1:F:220:ASP:N	2.50	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:329:ASN:CA	1:F:330:GLU:OE1	2.65	0.44
1:G:244:SER:C	1:G:245:THR:HG1	2.21	0.44
1:H:341:SER:HB3	1:H:675:GLN:NE2	2.32	0.44
1:I:429:HIS:CE1	1:J:627:THR:HG22	42.74	0.44
1:J:244:SER:C	1:J:245:THR:HG1	2.25	0.44
1:J:427:TYR:CD1	1:J:427:TYR:O	2.70	0.44
1:K:453:SER:OG	1:K:458:GLN:O	2.36	0.44
1:L:329:ASN:CA	1:L:330:GLU:OE1	2.65	0.44
1:L:609:TRP:CD1	1:L:609:TRP:O	2.71	0.44
1:B:429:HIS:CE1	1:M:627:THR:HG22	100.88	0.44
1:N:342:THR:HG22	1:N:407:ARG:CG	2.47	0.44
1:O:220:ASP:N	1:O:220:ASP:OD1	2.50	0.44
1:O:224:SER:OG	1:O:225:SER:N	2.50	0.44
1:O:426:SER:O	1:O:732:ARG:HA	2.18	0.44
1:P:427:TYR:O	1:P:427:TYR:CD1	2.70	0.44
1:P:621:TRP:CH2	1:P:646:PRO:HG2	2.52	0.44
1:R:427:TYR:HD1	1:R:427:TYR:O	2.00	0.44
1:Q:629:GLY:CA	1:S:609:TRP:CD1	81.78	0.44
1:U:341:SER:HB3	1:U:675:GLN:NE2	2.32	0.44
1:U:435:ARG:HD3	1:U:435:ARG:HA	1.79	0.44
1:X:224:SER:OG	1:X:225:SER:N	2.50	0.44
1:F:402:PRO:CG	1:Z:232:ASP:HB3	111.45	0.44
1:1:526:MET:CE	1:1:575:ALA:HA	2.48	0.44
1:2:220:ASP:N	1:2:220:ASP:OD1	2.50	0.44
1:2:426:SER:O	1:2:732:ARG:HA	2.18	0.44
1:2:453:SER:OG	1:2:458:GLN:O	2.36	0.44
1:2:621:TRP:CH2	1:2:646:PRO:HG2	2.52	0.44
1:4:254:ASN:C	1:4:256:HIS:N	2.71	0.44
1:Z:586:LEU:HD21	1:4:490:ARG:NH1	2.32	0.44
1:5:220:ASP:OD1	1:5:220:ASP:N	2.50	0.44
1:5:453:SER:OG	1:5:458:GLN:O	2.35	0.44
1:6:382:THR:HG22	1:6:383:LEU:N	2.29	0.44
1:7:224:SER:OG	1:7:225:SER:N	2.50	0.44
1:8:426:SER:O	1:8:732:ARG:HA	2.18	0.44
1:A:220:ASP:OD1	1:A:220:ASP:N	2.50	0.44
1:A:224:SER:OG	1:A:225:SER:N	2.50	0.44
1:A:329:ASN:CA	1:A:330:GLU:OE1	2.65	0.44
1:A:426:SER:O	1:A:732:ARG:HA	2.18	0.44
1:A:609:TRP:O	1:A:609:TRP:CD1	2.70	0.44
1:B:220:ASP:OD1	1:B:220:ASP:N	2.50	0.44
1:B:329:ASN:CA	1:B:330:GLU:OE1	2.65	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:626:HIS:CD2	1:C:736:ARG:NH2	38.21	0.44
1:D:220:ASP:N	1:D:220:ASP:OD1	2.50	0.44
1:D:426:SER:O	1:D:732:ARG:HA	2.18	0.44
1:E:429:HIS:HD2	1:E:610:GLN:OE1	1.94	0.44
1:F:490:ARG:NH1	1:G:586:LEU:HD21	81.54	0.44
1:F:627:THR:HG22	1:G:429:HIS:CE1	88.79	0.44
1:G:526:MET:CE	1:G:575:ALA:HA	2.48	0.44
1:G:621:TRP:CH2	1:G:646:PRO:HG2	2.52	0.44
1:H:453:SER:OG	1:H:458:GLN:O	2.36	0.44
1:I:526:MET:CE	1:I:575:ALA:HA	2.48	0.44
1:I:586:LEU:HD21	1:J:490:ARG:NH1	113.84	0.44
1:I:621:TRP:CH2	1:I:646:PRO:HG2	2.52	0.44
1:J:224:SER:OG	1:J:225:SER:N	2.50	0.44
1:J:329:ASN:CA	1:J:330:GLU:OE1	2.65	0.44
1:J:342:THR:HG22	1:J:407:ARG:CG	2.47	0.44
1:J:526:MET:CE	1:J:575:ALA:HA	2.48	0.44
1:K:341:SER:HB3	1:K:675:GLN:NE2	2.32	0.44
1:L:453:SER:OG	1:L:458:GLN:O	2.36	0.44
1:M:329:ASN:CA	1:M:330:GLU:OE1	2.65	0.44
1:N:254:ASN:C	1:N:256:HIS:N	2.71	0.44
1:M:586:LEU:HD21	1:N:490:ARG:NH1	113.84	0.44
1:N:609:TRP:CD1	1:N:609:TRP:O	2.71	0.44
1:M:627:THR:HG22	1:O:429:HIS:CE1	98.10	0.44
1:P:426:SER:O	1:P:732:ARG:HA	2.18	0.44
1:P:609:TRP:O	1:P:609:TRP:CD1	2.71	0.44
1:Q:329:ASN:CA	1:Q:330:GLU:OE1	2.65	0.44
1:R:526:MET:CE	1:R:575:ALA:HA	2.48	0.44
1:S:427:TYR:CD1	1:S:427:TYR:O	2.70	0.44
1:S:609:TRP:O	1:S:609:TRP:CD1	2.71	0.44
1:S:426:SER:O	1:S:732:ARG:HA	2.18	0.44
1:T:526:MET:CE	1:T:575:ALA:HA	2.48	0.44
1:S:736:ARG:NH2	1:U:626:HIS:CD2	2.79	0.44
1:V:341:SER:HB3	1:V:675:GLN:NE2	2.32	0.44
1:W:356:VAL:CG2	1:Y:438:ASN:HB2	50.39	0.44
1:X:220:ASP:N	1:X:220:ASP:OD1	2.50	0.44
1:Y:254:ASN:C	1:Y:256:HIS:N	2.71	0.44
1:Y:290:PHE:O	1:Y:293:HIS:N	2.47	0.44
1:Y:526:MET:CE	1:Y:575:ALA:HA	2.48	0.44
1:Z:453:SER:OG	1:Z:458:GLN:O	2.35	0.44
1:Z:586:LEU:HD21	1:1:490:ARG:NH1	84.86	0.44
1:Z:627:THR:HG22	1:3:429:HIS:CE1	2.53	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1:426:SER:O	1:1:732:ARG:HA	2.18	0.44
1:3:427:TYR:HD1	1:3:427:TYR:O	2.00	0.44
1:Z:583:ALA:O	1:4:487:ARG:HD2	2.18	0.44
1:Z:429:HIS:CE1	1:4:627:THR:HG22	2.53	0.44
1:5:526:MET:CE	1:5:575:ALA:HA	2.48	0.44
1:5:621:TRP:CH2	1:5:646:PRO:HG2	2.52	0.44
1:6:307:TRP:CE2	1:6:692:GLU:HG2	2.52	0.44
1:6:526:MET:CE	1:6:575:ALA:HA	2.48	0.44
1:7:453:SER:OG	1:7:458:GLN:O	2.36	0.44
1:A:435:ARG:HD3	1:A:435:ARG:HA	1.79	0.44
1:B:621:TRP:CH2	1:B:646:PRO:HG2	2.52	0.44
1:C:429:HIS:CE1	1:O:627:THR:HG22	143.28	0.44
1:D:487:ARG:HD2	1:P:583:ALA:O	2.17	0.44
1:D:621:TRP:CH2	1:D:646:PRO:HG2	2.52	0.44
1:E:453:SER:OG	1:E:458:GLN:O	2.36	0.44
1:F:526:MET:CE	1:F:575:ALA:HA	2.48	0.44
1:G:583:ALA:O	1:I:487:ARG:HD2	2.18	0.44
1:G:609:TRP:CD1	1:G:609:TRP:O	2.71	0.44
1:H:526:MET:CE	1:H:575:ALA:HA	2.48	0.44
1:H:609:TRP:O	1:H:609:TRP:CD1	2.71	0.44
1:K:487:ARG:HD2	1:8:583:ALA:O	2.18	0.44
1:A:629:GLY:CA	1:K:609:TRP:NE1	107.03	0.44
1:K:626:HIS:CD2	1:8:736:ARG:NH2	2.79	0.44
1:J:402:PRO:CG	1:L:232:ASP:HB3	72.77	0.44
1:L:244:SER:C	1:L:245:THR:HG1	2.22	0.44
1:L:527:ALA:O	1:L:575:ALA:N	2.45	0.44
1:B:490:ARG:NH1	1:L:586:LEU:HD21	2.32	0.44
1:M:232:ASP:HB3	1:N:402:PRO:CG	2.46	0.44
1:M:290:PHE:O	1:M:293:HIS:N	2.47	0.44
1:M:342:THR:HG22	1:M:407:ARG:CG	2.47	0.44
1:C:554:ASN:HB3	1:M:464:LEU:HD23	2.00	0.44
1:M:526:MET:CE	1:M:575:ALA:HA	2.48	0.44
1:M:583:ALA:O	1:N:487:ARG:HD2	94.88	0.44
1:Q:220:ASP:OD1	1:Q:220:ASP:N	2.50	0.44
1:Q:429:HIS:CE1	1:R:627:THR:HG22	59.30	0.44
1:Q:453:SER:OG	1:Q:458:GLN:O	2.35	0.44
1:S:453:SER:OG	1:S:458:GLN:O	2.35	0.44
1:U:427:TYR:CD1	1:U:427:TYR:O	2.70	0.44
1:U:453:SER:OG	1:U:458:GLN:O	2.36	0.44
1:V:224:SER:OG	1:V:225:SER:N	2.50	0.44
1:V:254:ASN:C	1:V:256:HIS:N	2.71	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:T:627:THR:HG22	1:V:429:HIS:CE1	98.10	0.44
1:V:490:ARG:NH1	1:X:586:LEU:HD21	2.33	0.44
1:Y:220:ASP:OD1	1:Y:220:ASP:N	2.50	0.44
1:Y:426:SER:O	1:Y:732:ARG:HA	2.18	0.44
1:Z:329:ASN:CA	1:Z:330:GLU:OE1	2.65	0.44
1:Z:609:TRP:O	1:Z:609:TRP:CD1	2.71	0.44
1:2:609:TRP:O	1:2:609:TRP:CD1	2.71	0.44
1:3:526:MET:CE	1:3:575:ALA:HA	2.48	0.44
1:4:426:SER:O	1:4:732:ARG:HA	2.18	0.44
1:3:627:THR:HG22	1:4:429:HIS:CE1	2.52	0.44
1:Z:464:LEU:HD23	1:4:554:ASN:HB3	2.00	0.44
1:4:585:ASN:OD1	1:4:594:ILE:N	2.45	0.44
1:5:554:ASN:HB3	1:7:464:LEU:HD23	2.00	0.44
1:7:426:SER:O	1:7:732:ARG:HA	2.18	0.44
1:A:429:HIS:CE1	1:8:627:THR:HG22	137.34	0.44
1:A:232:ASP:HB3	1:E:402:PRO:CG	2.46	0.44
1:A:427:TYR:O	1:A:427:TYR:CD1	2.70	0.44
1:B:490:ARG:NH1	1:C:586:LEU:HD21	113.84	0.44
1:D:609:TRP:O	1:D:609:TRP:CD1	2.71	0.44
1:E:526:MET:CE	1:E:575:ALA:HA	2.48	0.44
1:H:586:LEU:HD21	1:W:490:ARG:NH1	2.33	0.44
1:H:426:SER:O	1:H:732:ARG:HA	2.18	0.44
1:J:464:LEU:HD23	1:L:554:ASN:HB3	2.00	0.44
1:K:526:MET:CE	1:K:575:ALA:HA	2.48	0.44
1:K:609:TRP:CD1	1:K:609:TRP:O	2.70	0.44
1:L:427:TYR:O	1:L:427:TYR:HD1	2.00	0.44
1:M:429:HIS:CE1	1:N:627:THR:HG22	42.74	0.44
1:M:464:LEU:HD23	1:N:554:ASN:HB3	101.17	0.44
1:N:429:HIS:CE1	1:P:627:THR:HG22	2.53	0.44
1:N:426:SER:O	1:N:732:ARG:HA	2.18	0.44
1:O:526:MET:CE	1:O:575:ALA:HA	2.48	0.44
1:O:621:TRP:CH2	1:O:646:PRO:HG2	2.52	0.44
1:P:254:ASN:C	1:P:256:HIS:N	2.71	0.44
1:C:487:ARG:HD2	1:P:583:ALA:O	83.16	0.44
1:Q:322:GLN:HB3	1:Y:340:THR:HB	156.83	0.44
1:Q:526:MET:CE	1:Q:575:ALA:HA	2.48	0.44
1:E:464:LEU:HD23	1:Q:554:ASN:HB3	2.00	0.44
1:Q:621:TRP:CH2	1:Q:646:PRO:HG2	2.52	0.44
1:R:254:ASN:C	1:R:256:HIS:N	2.71	0.44
1:D:629:GLY:CA	1:T:609:TRP:NE1	117.58	0.44
1:T:616:LEU:HD22	1:T:729:ILE:HD12	1.99	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:R:627:THR:HG22	1:U:429:HIS:CE1	2.53	0.44
1:V:290:PHE:O	1:V:293:HIS:N	2.47	0.44
1:V:426:SER:O	1:V:732:ARG:HA	2.18	0.44
1:W:220:ASP:N	1:W:220:ASP:OD1	2.50	0.44
1:W:329:ASN:CA	1:W:330:GLU:OE1	2.65	0.44
1:W:526:MET:CE	1:W:575:ALA:HA	2.48	0.44
1:W:621:TRP:CH2	1:W:646:PRO:HG2	2.52	0.44
1:X:232:ASP:HB3	1:Y:402:PRO:CG	2.46	0.44
1:X:329:ASN:CA	1:X:330:GLU:OE1	2.65	0.44
1:W:429:HIS:CE1	1:Y:627:THR:HG22	2.53	0.44
1:Z:244:SER:C	1:Z:245:THR:HG1	2.22	0.44
1:1:585:ASN:OD1	1:1:594:ILE:N	2.45	0.44
1:2:254:ASN:C	1:2:256:HIS:N	2.71	0.44
1:2:329:ASN:CA	1:2:330:GLU:OE1	2.65	0.44
1:3:224:SER:OG	1:3:225:SER:N	2.50	0.44
1:3:254:ASN:C	1:3:256:HIS:N	2.71	0.44
1:3:434:ASP:N	1:3:434:ASP:OD1	2.41	0.44
1:5:522:PRO:O	1:5:541:GLY:HA2	2.18	0.44
1:6:453:SER:OG	1:6:458:GLN:O	2.35	0.44
1:B:627:THR:HG22	1:C:429:HIS:CE1	42.74	0.44
1:B:627:THR:HG22	1:L:429:HIS:CE1	2.53	0.44
1:D:583:ALA:O	1:L:487:ARG:HD2	144.66	0.44
1:E:341:SER:HB3	1:E:675:GLN:NE2	2.32	0.44
1:E:342:THR:HG22	1:E:407:ARG:CG	2.47	0.44
1:E:426:SER:O	1:E:732:ARG:HA	2.18	0.44
1:E:429:HIS:CE1	1:X:627:THR:HG22	143.07	0.44
1:E:627:THR:HG22	1:F:429:HIS:CE1	2.53	0.44
1:F:435:ARG:HA	1:F:435:ARG:HD3	1.80	0.44
1:G:464:LEU:HD23	1:I:554:ASN:HB3	2.00	0.44
1:F:583:ALA:O	1:H:487:ARG:HD2	144.66	0.44
1:A:402:PRO:CG	1:J:232:ASP:HB3	68.73	0.44
1:J:522:PRO:O	1:J:541:GLY:HA2	2.18	0.44
1:M:522:PRO:O	1:M:541:GLY:HA2	2.18	0.44
1:N:224:SER:OG	1:N:225:SER:N	2.50	0.44
1:N:429:HIS:CE1	1:O:627:THR:HG22	59.30	0.44
1:D:583:ALA:O	1:N:487:ARG:HD2	2.18	0.44
1:O:254:ASN:C	1:O:256:HIS:N	2.71	0.44
1:O:609:TRP:O	1:O:609:TRP:CD1	2.71	0.44
1:Q:522:PRO:O	1:Q:541:GLY:HA2	2.18	0.44
1:R:435:ARG:HD3	1:R:435:ARG:HA	1.79	0.44
1:T:224:SER:OG	1:T:225:SER:N	2.50	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:T:621:TRP:CH2	1:T:646:PRO:HG2	2.52	0.44
1:S:586:LEU:HD21	1:U:490:ARG:NH1	2.32	0.44
1:V:453:SER:OG	1:V:458:GLN:O	2.35	0.44
1:V:554:ASN:HB3	1:X:464:LEU:HD23	1.99	0.44
1:H:464:LEU:HD23	1:W:554:ASN:HB3	2.00	0.44
1:X:251:PRO:HG3	1:X:374:MET:HE3	1.99	0.44
1:X:616:LEU:HD22	1:X:729:ILE:HD12	1.99	0.44
1:Z:342:THR:HG22	1:Z:407:ARG:CG	2.47	0.44
1:1:224:SER:OG	1:1:225:SER:N	2.50	0.44
1:1:621:TRP:CH2	1:1:646:PRO:HG2	2.52	0.44
1:1:616:LEU:HD22	1:1:729:ILE:HD12	1.99	0.44
1:2:342:THR:HG22	1:2:407:ARG:CG	2.47	0.44
1:3:322:GLN:HB3	1:8:340:THR:HB	2.00	0.44
1:3:426:SER:OG	1:3:731:THR:O	2.31	0.44
1:5:254:ASN:C	1:5:256:HIS:N	2.71	0.44
1:6:427:TYR:O	1:6:427:TYR:HD1	2.00	0.44
1:6:429:HIS:CE1	1:7:627:THR:HG22	2.53	0.44
1:6:586:LEU:HD21	1:7:490:ARG:NH1	2.32	0.44
1:7:341:SER:HB3	1:7:675:GLN:NE2	2.32	0.44
1:7:429:HIS:HD2	1:7:610:GLN:OE1	1.94	0.44
1:A:254:ASN:C	1:A:256:HIS:N	2.71	0.44
1:A:487:ARG:HD2	1:K:583:ALA:O	148.14	0.44
1:A:522:PRO:O	1:A:541:GLY:HA2	2.18	0.44
1:B:522:PRO:O	1:B:541:GLY:HA2	2.18	0.44
1:B:526:MET:CE	1:B:575:ALA:HA	2.48	0.44
1:C:435:ARG:HA	1:C:435:ARG:HD3	1.79	0.44
1:C:554:ASN:HB3	1:P:464:LEU:HD23	59.18	0.44
1:C:627:THR:HG22	1:M:429:HIS:CE1	2.53	0.44
1:C:627:THR:HG22	1:P:429:HIS:CE1	62.81	0.44
1:D:254:ASN:C	1:D:256:HIS:N	2.71	0.44
1:E:490:ARG:NH1	1:F:586:LEU:HD21	2.32	0.44
1:G:627:THR:HG22	1:H:429:HIS:CE1	59.30	0.44
1:H:487:ARG:HD2	1:Y:583:ALA:O	2.18	0.44
1:A:627:THR:HG22	1:I:429:HIS:CE1	2.53	0.44
1:I:609:TRP:O	1:I:609:TRP:CD1	2.71	0.44
1:J:290:PHE:O	1:J:293:HIS:N	2.47	0.44
1:J:583:ALA:O	1:K:487:ARG:HD2	80.57	0.44
1:K:224:SER:OG	1:K:225:SER:N	2.50	0.44
1:I:627:THR:HG22	1:K:429:HIS:CE1	98.10	0.44
1:M:554:ASN:HB3	1:O:464:LEU:HD23	95.89	0.44
1:N:220:ASP:N	1:N:220:ASP:OD1	2.50	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Q:254:ASN:C	1:Q:256:HIS:N	2.71	0.44
1:Q:490:ARG:NH1	1:S:586:LEU:HD21	81.54	0.44
1:R:453:SER:OG	1:R:458:GLN:O	2.36	0.44
1:R:583:ALA:O	1:S:487:ARG:HD2	2.18	0.44
1:S:526:MET:CE	1:S:575:ALA:HA	2.48	0.44
1:T:254:ASN:C	1:T:256:HIS:N	2.71	0.44
1:T:585:ASN:OD1	1:T:594:ILE:N	2.45	0.44
1:U:244:SER:C	1:U:245:THR:HG1	2.21	0.44
1:V:244:SER:C	1:V:245:THR:HG1	2.23	0.44
1:U:586:LEU:HD21	1:V:490:ARG:NH1	82.11	0.44
1:W:342:THR:HG22	1:W:407:ARG:CG	2.47	0.44
1:X:427:TYR:HD1	1:X:427:TYR:O	2.00	0.44
1:V:627:THR:HG22	1:X:429:HIS:CE1	2.53	0.44
1:E:583:ALA:O	1:X:487:ARG:HD2	142.81	0.44
1:Z:527:ALA:O	1:Z:575:ALA:N	2.45	0.44
1:Z:554:ASN:HB3	1:3:464:LEU:HD23	2.00	0.44
1:1:522:PRO:O	1:1:541:GLY:HA2	2.18	0.43
1:2:244:SER:C	1:2:245:THR:HG1	2.22	0.43
1:2:616:LEU:HD22	1:2:729:ILE:HD12	1.99	0.43
1:3:220:ASP:OD1	1:3:220:ASP:N	2.50	0.43
1:3:621:TRP:CH2	1:3:646:PRO:HG2	2.52	0.43
1:4:526:MET:CE	1:4:575:ALA:HA	2.48	0.43
1:4:429:HIS:HD2	1:4:610:GLN:OE1	1.94	0.43
1:A:464:LEU:HD23	1:8:554:ASN:HB3	188.04	0.43
1:8:609:TRP:CD1	1:8:609:TRP:O	2.71	0.43
1:8:621:TRP:CH2	1:8:646:PRO:HG2	2.52	0.43
1:D:429:HIS:CE1	1:N:627:THR:HG22	2.53	0.43
1:D:464:LEU:HD23	1:N:554:ASN:HB3	2.00	0.43
1:D:526:MET:CE	1:D:575:ALA:HA	2.48	0.43
1:D:626:HIS:CD2	1:P:736:ARG:NH2	2.79	0.43
1:E:487:ARG:HD2	1:V:583:ALA:O	159.03	0.43
1:G:429:HIS:CE1	1:I:627:THR:HG22	2.53	0.43
1:J:429:HIS:CE1	1:L:627:THR:HG22	2.53	0.43
1:L:342:THR:HG22	1:L:407:ARG:CG	2.47	0.43
1:L:429:HIS:HD2	1:L:610:GLN:OE1	1.94	0.43
1:M:232:ASP:HB3	1:S:402:PRO:CG	105.10	0.43
1:N:464:LEU:HD23	1:P:554:ASN:HB3	1.99	0.43
1:N:522:PRO:O	1:N:541:GLY:HA2	2.18	0.43
1:O:232:ASP:HB3	1:7:402:PRO:CG	142.58	0.43
1:O:322:GLN:HB3	1:P:340:THR:HB	2.00	0.43
1:P:526:MET:CE	1:P:575:ALA:HA	2.48	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Q:554:ASN:HB3	1:S:464:LEU:HD23	103.69	0.43
1:S:254:ASN:C	1:S:256:HIS:N	2.71	0.43
1:S:522:PRO:O	1:S:541:GLY:HA2	2.18	0.43
1:R:429:HIS:CE1	1:S:627:THR:HG22	2.53	0.43
1:T:522:PRO:O	1:T:541:GLY:HA2	2.18	0.43
1:T:527:ALA:O	1:T:575:ALA:N	2.45	0.43
1:T:626:HIS:CD2	1:V:736:ARG:NH2	87.32	0.43
1:U:224:SER:OG	1:U:225:SER:N	2.50	0.43
1:T:487:ARG:HD2	1:V:583:ALA:O	131.94	0.43
1:X:341:SER:HB3	1:X:675:GLN:NE2	2.32	0.43
1:Z:487:ARG:HD2	1:2:583:ALA:O	98.13	0.43
1:Z:627:THR:HG22	1:2:429:HIS:CE1	70.57	0.43
1:2:526:MET:CE	1:2:575:ALA:HA	2.48	0.43
1:4:522:PRO:O	1:4:541:GLY:HA2	2.18	0.43
1:5:429:HIS:CE1	1:6:627:THR:HG22	2.53	0.43
1:6:464:LEU:HD23	1:7:554:ASN:HB3	2.00	0.43
1:5:487:ARG:HD2	1:7:583:ALA:O	2.18	0.43
1:8:278:TYR:CE2	1:8:395:PHE:HD1	2.37	0.43
1:A:554:ASN:HB3	1:K:464:LEU:HD23	147.58	0.43
1:A:586:LEU:HD21	1:8:490:ARG:NH1	161.69	0.43
1:A:627:THR:HG22	1:K:429:HIS:CE1	95.66	0.43
1:B:464:LEU:HD23	1:J:554:ASN:HB3	2.00	0.43
1:C:341:SER:HB3	1:C:675:GLN:NE2	2.32	0.43
1:E:329:ASN:CA	1:E:330:GLU:OE1	2.65	0.43
1:E:583:ALA:O	1:Q:487:ARG:HD2	2.18	0.43
1:F:290:PHE:O	1:F:293:HIS:N	2.47	0.43
1:F:627:THR:HG22	1:Q:429:HIS:CE1	2.53	0.43
1:G:452:GLN:HE21	1:G:459:GLY:HA3	1.84	0.43
1:G:522:PRO:O	1:G:541:GLY:HA2	2.18	0.43
1:H:522:PRO:O	1:H:541:GLY:HA2	2.18	0.43
1:I:522:PRO:O	1:I:541:GLY:HA2	2.18	0.43
1:J:254:ASN:C	1:J:256:HIS:N	2.71	0.43
1:K:254:ASN:C	1:K:256:HIS:N	2.71	0.43
1:D:429:HIS:CE1	1:L:627:THR:HG22	119.48	0.43
1:M:224:SER:OG	1:M:225:SER:N	2.50	0.43
1:N:526:MET:CE	1:N:575:ALA:HA	2.48	0.43
1:N:609:TRP:NE1	1:O:629:GLY:CA	68.75	0.43
1:O:278:TYR:CE2	1:O:395:PHE:HD1	2.37	0.43
1:O:453:SER:OG	1:O:458:GLN:O	2.36	0.43
1:O:464:LEU:HD23	1:P:554:ASN:HB3	101.17	0.43
1:P:452:GLN:HE21	1:P:459:GLY:HA3	1.84	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:586:LEU:HD21	1:P:490:ARG:NH1	2.33	0.43
1:R:452:GLN:HE21	1:R:459:GLY:HA3	1.84	0.43
1:S:429:HIS:CE1	1:U:627:THR:HG22	2.53	0.43
1:S:527:ALA:O	1:S:575:ALA:N	2.45	0.43
1:T:429:HIS:CE1	1:U:627:THR:HG22	42.74	0.43
1:U:254:ASN:C	1:U:256:HIS:N	2.71	0.43
1:U:329:ASN:CA	1:U:330:GLU:OE1	2.65	0.43
1:U:429:HIS:CE1	1:V:627:THR:HG22	59.30	0.43
1:R:487:ARG:HD2	1:U:583:ALA:O	2.18	0.43
1:W:522:PRO:O	1:W:541:GLY:HA2	2.18	0.43
1:W:586:LEU:HD11	1:X:490:ARG:CZ	80.29	0.43
1:X:435:ARG:HD3	1:X:435:ARG:HA	1.79	0.43
1:H:402:PRO:CG	1:Z:232:ASP:HB3	2.46	0.43
1:Z:526:MET:CE	1:Z:575:ALA:HA	2.48	0.43
1:1:609:TRP:NE1	1:2:629:GLY:CA	2.59	0.43
1:2:452:GLN:HE21	1:2:459:GLY:HA3	1.84	0.43
1:3:278:TYR:CE2	1:3:395:PHE:HD1	2.37	0.43
1:4:290:PHE:HE2	1:4:614:VAL:HB	1.84	0.43
1:5:278:TYR:CE2	1:5:395:PHE:HD1	2.37	0.43
1:5:585:ASN:OD1	1:5:594:ILE:N	2.45	0.43
1:6:426:SER:O	1:6:732:ARG:HA	2.18	0.43
1:8:254:ASN:C	1:8:256:HIS:N	2.71	0.43
1:A:526:MET:CE	1:A:575:ALA:HA	2.48	0.43
1:B:340:THR:O	1:B:407:ARG:CZ	2.67	0.43
1:D:278:TYR:CE2	1:D:395:PHE:HD1	2.37	0.43
1:E:554:ASN:HB3	1:F:464:LEU:HD23	2.00	0.43
1:F:487:ARG:HD2	1:Q:583:ALA:O	2.18	0.43
1:G:232:ASP:HB3	1:W:402:PRO:CG	2.46	0.43
1:J:251:PRO:HG3	1:J:374:MET:HE3	1.99	0.43
1:K:278:TYR:CE2	1:K:395:PHE:HD1	2.37	0.43
1:L:435:ARG:HA	1:L:435:ARG:HD3	1.79	0.43
1:M:254:ASN:C	1:M:256:HIS:N	2.71	0.43
1:M:278:TYR:CE2	1:M:395:PHE:HD1	2.37	0.43
1:M:290:PHE:HE2	1:M:614:VAL:HB	1.84	0.43
1:M:453:SER:OG	1:M:458:GLN:O	2.36	0.43
1:B:464:LEU:HD23	1:M:554:ASN:HB3	153.02	0.43
1:M:609:TRP:CD1	1:M:609:TRP:O	2.70	0.43
1:N:290:PHE:HE2	1:N:614:VAL:HB	1.84	0.43
1:N:586:LEU:HD21	1:O:490:ARG:NH1	82.11	0.43
1:P:278:TYR:CE2	1:P:395:PHE:HD1	2.37	0.43
1:P:434:ASP:OD1	1:P:434:ASP:N	2.41	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Q:526:MET:HE1	1:Q:575:ALA:HA	2.00	0.43
1:R:340:THR:O	1:R:407:ARG:CZ	2.67	0.43
1:R:522:PRO:O	1:R:541:GLY:HA2	2.18	0.43
1:R:527:ALA:O	1:R:575:ALA:N	2.45	0.43
1:R:626:HIS:CD2	1:U:736:ARG:NH2	2.79	0.43
1:S:278:TYR:CE2	1:S:395:PHE:HD1	2.37	0.43
1:S:340:THR:O	1:S:407:ARG:CZ	2.67	0.43
1:S:452:GLN:HE21	1:S:459:GLY:HA3	1.84	0.43
1:U:290:PHE:O	1:U:293:HIS:N	2.47	0.43
1:U:340:THR:O	1:U:407:ARG:CZ	2.67	0.43
1:U:527:ALA:O	1:U:575:ALA:N	2.45	0.43
1:V:702:GLN:HB2	1:Y:704:THR:HB	125.42	0.43
1:W:340:THR:O	1:W:407:ARG:CZ	2.67	0.43
1:W:426:SER:O	1:W:732:ARG:HA	2.18	0.43
1:W:453:SER:OG	1:W:458:GLN:O	2.36	0.43
1:W:490:ARG:CZ	1:Y:586:LEU:HD11	34.66	0.43
1:X:340:THR:O	1:X:407:ARG:CZ	2.67	0.43
1:X:452:GLN:HE21	1:X:459:GLY:HA3	1.84	0.43
1:X:438:ASN:HB2	1:Y:356:VAL:CG2	62.42	0.43
1:X:586:LEU:HD21	1:Y:490:ARG:CZ	113.44	0.43
1:H:629:GLY:CA	1:Y:609:TRP:CD1	2.85	0.43
1:Z:278:TYR:CE2	1:Z:395:PHE:HD1	2.37	0.43
1:3:452:GLN:HE21	1:3:459:GLY:HA3	1.84	0.43
1:3:490:ARG:NH1	1:4:586:LEU:HD21	2.33	0.43
1:3:609:TRP:CD1	1:3:609:TRP:O	2.70	0.43
1:4:224:SER:OG	1:4:225:SER:N	2.50	0.43
1:4:452:GLN:HE21	1:4:459:GLY:HA3	1.84	0.43
1:8:526:MET:CE	1:8:575:ALA:HA	2.48	0.43
1:A:290:PHE:HE2	1:A:614:VAL:HB	1.84	0.43
1:B:251:PRO:HG3	1:B:374:MET:HE3	2.01	0.43
1:C:526:MET:CE	1:C:575:ALA:HA	2.48	0.43
1:C:429:HIS:HD2	1:C:610:GLN:OE1	1.94	0.43
1:C:340:THR:HB	1:D:322:GLN:HB3	2.00	0.43
1:D:452:GLN:HE21	1:D:459:GLY:HA3	1.84	0.43
1:D:626:HIS:CD2	1:T:736:ARG:NH2	105.27	0.43
1:E:340:THR:O	1:E:407:ARG:CZ	2.67	0.43
1:F:522:PRO:O	1:F:541:GLY:HA2	2.18	0.43
1:H:342:THR:HG22	1:H:407:ARG:CG	2.47	0.43
1:H:452:GLN:HE21	1:H:459:GLY:HA3	1.84	0.43
1:J:278:TYR:CE2	1:J:395:PHE:HD1	2.37	0.43
1:J:290:PHE:HE2	1:J:614:VAL:HB	1.84	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:627:THR:HG22	1:8:429:HIS:CE1	2.53	0.43
1:K:426:SER:O	1:K:732:ARG:HA	2.18	0.43
1:L:452:GLN:HE21	1:L:459:GLY:HA3	1.84	0.43
1:M:244:SER:C	1:M:245:THR:HG1	2.25	0.43
1:N:452:GLN:HE21	1:N:459:GLY:HA3	1.84	0.43
1:N:583:ALA:O	1:O:487:ARG:HD2	80.57	0.43
1:O:429:HIS:CE1	1:P:627:THR:HG22	42.74	0.43
1:O:452:GLN:HE21	1:O:459:GLY:HA3	1.84	0.43
1:Q:278:TYR:CE2	1:Q:395:PHE:HD1	2.37	0.43
1:Q:452:GLN:HE21	1:Q:459:GLY:HA3	1.84	0.43
1:Q:527:ALA:O	1:Q:575:ALA:N	2.45	0.43
1:Q:426:SER:O	1:Q:732:ARG:HA	2.18	0.43
1:R:464:LEU:HD23	1:S:554:ASN:HB3	2.00	0.43
1:R:490:ARG:NH1	1:U:586:LEU:HD21	2.32	0.43
1:R:554:ASN:HB3	1:U:464:LEU:HD23	2.00	0.43
1:S:290:PHE:O	1:S:293:HIS:N	2.47	0.43
1:T:244:SER:C	1:T:245:THR:HG1	2.28	0.43
1:T:340:THR:O	1:T:407:ARG:CZ	2.67	0.43
1:T:452:GLN:HE21	1:T:459:GLY:HA3	1.84	0.43
1:T:554:ASN:HB3	1:V:464:LEU:HD23	95.87	0.43
1:U:278:TYR:CE2	1:U:395:PHE:HD1	2.37	0.43
1:U:452:GLN:HE21	1:U:459:GLY:HA3	1.84	0.43
1:V:340:THR:O	1:V:407:ARG:CZ	2.67	0.43
1:Y:340:THR:O	1:Y:407:ARG:CZ	2.67	0.43
1:Y:453:SER:OG	1:Y:458:GLN:O	2.35	0.43
1:H:554:ASN:HB3	1:Y:464:LEU:HD23	2.00	0.43
1:W:629:GLY:CA	1:Y:609:TRP:CD1	18.16	0.43
1:1:452:GLN:HE21	1:1:459:GLY:HA3	1.84	0.43
1:1:736:ARG:NH2	1:2:626:HIS:CD2	2.79	0.43
1:3:453:SER:OG	1:3:458:GLN:O	2.36	0.43
1:4:453:SER:OG	1:4:458:GLN:O	2.36	0.43
1:5:426:SER:O	1:5:732:ARG:HA	2.18	0.43
1:5:452:GLN:HE21	1:5:459:GLY:HA3	1.84	0.43
1:5:490:ARG:NH1	1:7:586:LEU:HD21	2.32	0.43
1:5:526:MET:HE1	1:5:575:ALA:HA	2.00	0.43
1:5:583:ALA:O	1:6:487:ARG:HD2	2.18	0.43
1:6:220:ASP:N	1:6:220:ASP:OD1	2.50	0.43
1:7:342:THR:HG22	1:7:407:ARG:CG	2.47	0.43
1:7:609:TRP:O	1:7:609:TRP:CD1	2.71	0.43
1:8:251:PRO:HG3	1:8:374:MET:HE3	2.01	0.43
1:A:278:TYR:CE2	1:A:395:PHE:HD1	2.37	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:426:SER:O	1:B:732:ARG:HA	2.18	0.43
1:C:278:TYR:CE2	1:C:395:PHE:HD1	2.37	0.43
1:C:340:THR:O	1:C:407:ARG:CZ	2.67	0.43
1:C:452:GLN:HE21	1:C:459:GLY:HA3	1.84	0.43
1:C:487:ARG:HD2	1:M:583:ALA:O	2.18	0.43
1:C:522:PRO:O	1:C:541:GLY:HA2	2.18	0.43
1:E:322:GLN:HB3	1:H:340:THR:HB	118.81	0.43
1:E:522:PRO:O	1:E:541:GLY:HA2	2.18	0.43
1:E:586:LEU:HD21	1:Q:490:ARG:NH1	2.32	0.43
1:F:290:PHE:HE2	1:F:614:VAL:HB	1.84	0.43
1:G:340:THR:O	1:G:407:ARG:CZ	2.67	0.43
1:H:340:THR:O	1:H:407:ARG:CZ	2.67	0.43
1:J:435:ARG:HA	1:J:435:ARG:HD3	1.79	0.43
1:I:583:ALA:O	1:J:487:ARG:HD2	94.87	0.43
1:J:583:ALA:O	1:L:487:ARG:HD2	2.18	0.43
1:K:322:GLN:HB3	1:L:340:THR:HB	2.00	0.43
1:K:340:THR:O	1:K:407:ARG:CZ	2.67	0.43
1:L:278:TYR:CE2	1:L:395:PHE:HD1	2.37	0.43
1:L:340:THR:O	1:L:407:ARG:CZ	2.67	0.43
1:L:526:MET:CE	1:L:575:ALA:HA	2.48	0.43
1:L:290:PHE:HE2	1:L:614:VAL:HB	1.84	0.43
1:N:278:TYR:CE2	1:N:395:PHE:HD1	2.36	0.43
1:P:340:THR:O	1:P:407:ARG:CZ	2.67	0.43
1:Q:579:TYR:OH	1:Q:607:MET:HE2	2.26	0.43
1:R:244:SER:C	1:R:245:THR:HG1	2.20	0.43
1:R:278:TYR:CE2	1:R:395:PHE:HD1	2.37	0.43
1:R:340:THR:HB	1:X:322:GLN:HB3	87.65	0.43
1:S:342:THR:HG22	1:S:407:ARG:CG	2.47	0.43
1:T:278:TYR:CE2	1:T:395:PHE:HD1	2.37	0.43
1:T:464:LEU:HD23	1:U:554:ASN:HB3	101.17	0.43
1:T:490:ARG:NH1	1:V:586:LEU:HD21	134.88	0.43
1:U:522:PRO:O	1:U:541:GLY:HA2	2.18	0.43
1:V:522:PRO:O	1:V:541:GLY:HA2	2.18	0.43
1:V:526:MET:CE	1:V:575:ALA:HA	2.48	0.43
1:X:322:GLN:HB3	1:Y:340:THR:HB	2.01	0.43
1:Y:522:PRO:O	1:Y:541:GLY:HA2	2.18	0.43
1:Z:290:PHE:HE2	1:Z:614:VAL:HB	1.84	0.43
1:Z:429:HIS:CE1	1:1:627:THR:HG22	88.24	0.43
1:2:290:PHE:O	1:2:293:HIS:N	2.47	0.43
1:3:487:ARG:HD2	1:4:583:ALA:O	2.19	0.43
1:7:248:TRP:HB3	1:7:373:PHE:CZ	2.54	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:7:522:PRO:O	1:7:541:GLY:HA2	2.18	0.43
1:B:487:ARG:HD2	1:C:583:ALA:O	94.88	0.43
1:D:290:PHE:O	1:D:293:HIS:N	2.47	0.43
1:D:627:THR:HG22	1:P:429:HIS:CE1	2.53	0.43
1:E:220:ASP:N	1:E:220:ASP:OD1	2.50	0.43
1:E:248:TRP:HB3	1:E:373:PHE:CZ	2.54	0.43
1:E:264:GLY:HA2	1:E:387:SER:HB3	2.01	0.43
1:F:254:ASN:C	1:F:256:HIS:N	2.71	0.43
1:F:452:GLN:HE21	1:F:459:GLY:HA3	1.84	0.43
1:F:554:ASN:HB3	1:G:464:LEU:HD23	103.69	0.43
1:E:487:ARG:HD2	1:F:583:ALA:O	2.18	0.43
1:G:254:ASN:C	1:G:256:HIS:N	2.71	0.43
1:H:627:THR:HG22	1:Y:429:HIS:CE1	2.53	0.43
1:I:340:THR:O	1:I:407:ARG:CZ	2.67	0.43
1:L:220:ASP:N	1:L:220:ASP:OD1	2.50	0.43
1:L:522:PRO:O	1:L:541:GLY:HA2	2.18	0.43
1:B:487:ARG:HD2	1:L:583:ALA:O	2.18	0.43
1:C:629:GLY:CA	1:M:609:TRP:CD1	2.85	0.43
1:O:264:GLY:HA2	1:O:387:SER:HB3	2.01	0.43
1:N:402:PRO:CG	1:R:232:ASP:HB3	121.79	0.43
1:L:429:HIS:CE1	1:T:627:THR:HG22	192.92	0.43
1:V:278:TYR:CE2	1:V:395:PHE:HD1	2.37	0.43
1:W:329:ASN:O	1:W:332:THR:OG1	2.31	0.43
1:T:402:PRO:CG	1:Y:232:ASP:HB3	138.29	0.43
1:Y:278:TYR:CE2	1:Y:395:PHE:HD1	2.37	0.43
1:Y:452:GLN:HE21	1:Y:459:GLY:HA3	1.84	0.43
1:Z:609:TRP:NE1	1:1:629:GLY:CA	83.23	0.43
1:1:278:TYR:CE2	1:1:395:PHE:HD1	2.37	0.43
1:2:297:ARG:HG3	1:2:301:ARG:NH1	2.34	0.43
1:2:341:SER:HB3	1:2:675:GLN:NE2	2.32	0.43
1:3:248:TRP:HB3	1:3:373:PHE:CZ	2.54	0.43
1:3:264:GLY:HA2	1:3:387:SER:HB3	2.01	0.43
1:4:220:ASP:N	1:4:220:ASP:OD1	2.50	0.43
1:4:278:TYR:CE2	1:4:395:PHE:HD1	2.37	0.43
1:6:522:PRO:O	1:6:541:GLY:HA2	2.18	0.43
1:7:329:ASN:CA	1:7:330:GLU:OE1	2.65	0.43
1:7:251:PRO:HG3	1:7:374:MET:HE3	2.01	0.43
1:A:248:TRP:HB3	1:A:373:PHE:CZ	2.54	0.43
1:A:264:GLY:HA2	1:A:387:SER:HB3	2.01	0.43
1:B:429:HIS:HD2	1:B:610:GLN:OE1	1.94	0.43
1:C:251:PRO:HG3	1:C:374:MET:HE3	2.02	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:340:THR:O	1:D:407:ARG:CZ	2.67	0.43
1:E:232:ASP:HB3	1:H:402:PRO:CG	131.04	0.43
1:E:329:ASN:O	1:E:332:THR:OG1	2.31	0.43
1:G:340:THR:HB	1:K:322:GLN:HB3	159.21	0.43
1:F:487:ARG:HD2	1:G:583:ALA:O	86.84	0.43
1:H:264:GLY:HA2	1:H:387:SER:HB3	2.01	0.43
1:I:278:TYR:CE2	1:I:395:PHE:HD1	2.37	0.43
1:J:452:GLN:HE21	1:J:459:GLY:HA3	1.84	0.43
1:K:244:SER:C	1:K:245:THR:HG1	2.22	0.43
1:K:452:GLN:HE21	1:K:459:GLY:HA3	1.84	0.43
1:I:487:ARG:HD2	1:K:583:ALA:O	131.96	0.43
1:J:429:HIS:CE1	1:K:627:THR:HG22	59.30	0.43
1:N:248:TRP:HB3	1:N:373:PHE:CZ	2.54	0.43
1:N:464:LEU:HD23	1:O:554:ASN:HB3	59.34	0.43
1:O:522:PRO:O	1:O:541:GLY:HA2	2.18	0.43
1:P:290:PHE:O	1:P:293:HIS:N	2.47	0.43
1:S:264:GLY:HA2	1:S:387:SER:HB3	2.01	0.43
1:T:586:LEU:HD21	1:U:490:ARG:NH1	113.84	0.43
1:U:526:MET:CE	1:U:575:ALA:HA	2.48	0.43
1:W:264:GLY:HA2	1:W:387:SER:HB3	2.01	0.43
1:W:278:TYR:CE2	1:W:395:PHE:HD1	2.37	0.43
1:W:452:GLN:HE21	1:W:459:GLY:HA3	1.84	0.43
1:X:248:TRP:HB3	1:X:373:PHE:CZ	2.54	0.43
1:X:340:THR:O	1:X:407:ARG:NE	2.52	0.43
1:Y:340:THR:O	1:Y:407:ARG:NE	2.52	0.43
1:Z:254:ASN:C	1:Z:256:HIS:N	2.71	0.43
1:Z:290:PHE:O	1:Z:293:HIS:N	2.47	0.43
1:Z:522:PRO:O	1:Z:541:GLY:HA2	2.18	0.43
1:1:251:PRO:HG3	1:1:374:MET:HE3	2.01	0.43
1:1:297:ARG:HG3	1:1:301:ARG:NH1	2.34	0.43
1:3:342:THR:HG22	1:3:407:ARG:CG	2.47	0.43
1:3:554:ASN:HB3	1:4:464:LEU:HD23	2.00	0.43
1:4:341:SER:HB3	1:4:675:GLN:NE2	2.32	0.43
1:6:583:ALA:O	1:7:487:ARG:HD2	2.18	0.43
1:7:526:MET:CE	1:7:575:ALA:HA	2.48	0.43
1:8:568:ILE:HD12	1:8:572:ASN:HD22	1.84	0.43
1:A:297:ARG:HG3	1:A:301:ARG:NH1	2.34	0.43
1:A:340:THR:O	1:A:407:ARG:NE	2.52	0.43
1:B:435:ARG:HD3	1:B:435:ARG:HA	1.79	0.43
1:C:254:ASN:C	1:C:256:HIS:N	2.71	0.43
1:D:297:ARG:HG3	1:D:301:ARG:NH1	2.34	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:341:SER:HB3	1:D:675:GLN:NE2	2.32	0.43
1:E:340:THR:O	1:E:407:ARG:NE	2.52	0.43
1:E:452:GLN:HE21	1:E:459:GLY:HA3	1.84	0.43
1:F:244:SER:C	1:F:245:THR:HG1	2.21	0.43
1:G:278:TYR:CE2	1:G:395:PHE:HD1	2.37	0.43
1:G:290:PHE:O	1:G:293:HIS:N	2.47	0.43
1:H:290:PHE:O	1:H:293:HIS:N	2.47	0.43
1:H:322:GLN:HB3	1:I:340:THR:HB	2.01	0.43
1:G:487:ARG:HD2	1:H:583:ALA:O	80.57	0.43
1:I:464:LEU:HD23	1:J:554:ASN:HB3	101.16	0.43
1:L:248:TRP:HB3	1:L:373:PHE:CZ	2.54	0.43
1:N:340:THR:O	1:N:407:ARG:CZ	2.67	0.43
1:N:340:THR:O	1:N:407:ARG:NE	2.52	0.43
1:O:340:THR:O	1:O:407:ARG:NE	2.52	0.43
1:D:490:ARG:CZ	1:P:586:LEU:HD21	2.49	0.43
1:Q:568:ILE:HD12	1:Q:572:ASN:HD22	1.84	0.43
1:S:297:ARG:HG3	1:S:301:ARG:NH1	2.34	0.43
1:Q:487:ARG:HD2	1:S:583:ALA:O	86.84	0.43
1:T:297:ARG:HG3	1:T:301:ARG:NH1	2.34	0.43
1:T:429:HIS:HD2	1:T:610:GLN:OE1	1.94	0.43
1:V:329:ASN:CA	1:V:330:GLU:OE1	2.65	0.43
1:V:340:THR:O	1:V:407:ARG:NE	2.52	0.43
1:V:452:GLN:HE21	1:V:459:GLY:HA3	1.84	0.43
1:V:340:THR:HB	1:W:322:GLN:HB3	2.00	0.43
1:Y:232:ASP:HB3	1:4:402:PRO:CG	2.46	0.43
1:Z:452:GLN:HE21	1:Z:459:GLY:HA3	1.84	0.43
1:1:464:LEU:HD23	1:2:554:ASN:HB3	2.00	0.43
1:1:527:ALA:O	1:1:575:ALA:N	2.45	0.43
1:4:340:THR:O	1:4:407:ARG:CZ	2.67	0.43
1:Z:736:ARG:NH2	1:4:626:HIS:CD2	2.79	0.43
1:5:329:ASN:CA	1:5:330:GLU:OE1	2.65	0.43
1:5:568:ILE:HD12	1:5:572:ASN:HD22	1.84	0.43
1:6:340:THR:O	1:6:407:ARG:NE	2.52	0.43
1:7:297:ARG:HG3	1:7:301:ARG:NH1	2.34	0.43
1:7:452:GLN:HE21	1:7:459:GLY:HA3	1.84	0.43
1:8:220:ASP:N	1:8:220:ASP:OD1	2.50	0.43
1:A:568:ILE:HD12	1:A:572:ASN:HD22	1.84	0.43
1:B:248:TRP:HB3	1:B:373:PHE:CZ	2.54	0.43
1:B:254:ASN:C	1:B:256:HIS:N	2.71	0.43
1:B:297:ARG:HG3	1:B:301:ARG:NH1	2.34	0.43
1:B:452:GLN:HE21	1:B:459:GLY:HA3	1.84	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:568:ILE:HD12	1:B:572:ASN:HD22	1.84	0.43
1:C:248:TRP:HB3	1:C:373:PHE:CZ	2.54	0.43
1:D:554:ASN:HB3	1:T:464:LEU:HD23	149.31	0.43
1:E:297:ARG:HG3	1:E:301:ARG:NH1	2.34	0.43
1:F:340:THR:O	1:F:407:ARG:NE	2.52	0.43
1:F:429:HIS:CE1	1:H:627:THR:HG22	119.48	0.43
1:F:568:ILE:HD12	1:F:572:ASN:HD22	1.84	0.43
1:G:340:THR:O	1:G:407:ARG:NE	2.52	0.43
1:G:554:ASN:HB3	1:H:464:LEU:HD23	59.35	0.43
1:H:248:TRP:HB3	1:H:373:PHE:CZ	2.54	0.43
1:H:278:TYR:CE2	1:H:395:PHE:HD1	2.37	0.43
1:I:244:SER:C	1:I:245:THR:HG1	2.27	0.43
1:I:248:TRP:HB3	1:I:373:PHE:CZ	2.54	0.43
1:I:554:ASN:HB3	1:K:464:LEU:HD23	95.89	0.43
1:J:568:ILE:HD12	1:J:572:ASN:HD22	1.84	0.43
1:K:490:ARG:CZ	1:8:586:LEU:HD21	2.49	0.43
1:K:568:ILE:HD12	1:K:572:ASN:HD22	1.84	0.43
1:L:609:TRP:NE1	1:T:629:GLY:CA	194.06	0.43
1:M:248:TRP:HB3	1:M:373:PHE:CZ	2.54	0.43
1:M:435:ARG:HA	1:M:435:ARG:HD3	1.79	0.43
1:M:402:PRO:CG	1:N:232:ASP:HB3	57.55	0.43
1:N:297:ARG:HG3	1:N:301:ARG:NH1	2.34	0.43
1:O:297:ARG:HG3	1:O:301:ARG:NH1	2.34	0.43
1:O:248:TRP:HB3	1:O:373:PHE:CZ	2.54	0.43
1:C:583:ALA:O	1:O:487:ARG:HD2	141.93	0.43
1:P:435:ARG:HA	1:P:435:ARG:HD3	1.79	0.43
1:Q:248:TRP:HB3	1:Q:373:PHE:CZ	2.54	0.43
1:Q:264:GLY:HA2	1:Q:387:SER:HB3	2.01	0.43
1:Q:464:LEU:HD23	1:R:554:ASN:HB3	59.34	0.43
1:S:248:TRP:HB3	1:S:373:PHE:CZ	2.54	0.43
1:T:340:THR:O	1:T:407:ARG:NE	2.52	0.43
1:L:464:LEU:HD23	1:T:554:ASN:HB3	229.42	0.43
1:U:297:ARG:HG3	1:U:301:ARG:NH1	2.34	0.43
1:U:568:ILE:HD12	1:U:572:ASN:HD22	1.84	0.43
1:V:487:ARG:HD2	1:X:583:ALA:O	2.19	0.43
1:V:568:ILE:HD12	1:V:572:ASN:HD22	1.84	0.43
1:W:248:TRP:HB3	1:W:373:PHE:CZ	2.54	0.43
1:H:583:ALA:O	1:W:487:ARG:HD2	2.19	0.43
1:W:627:THR:HG22	1:Y:429:HIS:CE1	31.36	0.43
1:X:429:HIS:CE1	1:Y:627:THR:HG22	42.74	0.43
1:X:522:PRO:O	1:X:541:GLY:HA2	2.18	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:X:583:ALA:O	1:Y:487:ARG:HD2	94.88	0.43
1:Z:248:TRP:HB3	1:Z:373:PHE:CZ	2.54	0.43
1:1:329:ASN:CA	1:1:330:GLU:OE1	2.65	0.43
1:1:340:THR:O	1:1:407:ARG:CZ	2.67	0.43
1:1:340:THR:O	1:1:407:ARG:NE	2.52	0.43
1:Z:464:LEU:HD23	1:1:554:ASN:HB3	105.20	0.43
1:2:278:TYR:CE2	1:2:395:PHE:HD1	2.37	0.43
1:1:466:SER:HG	1:2:554:ASN:H	1.67	0.43
1:3:340:THR:O	1:3:407:ARG:NE	2.52	0.43
1:3:511:TYR:HD2	1:3:520:VAL:HG22	1.84	0.43
1:3:522:PRO:O	1:3:541:GLY:HA2	2.18	0.43
1:4:340:THR:O	1:4:407:ARG:NE	2.52	0.43
1:5:264:GLY:HA2	1:5:387:SER:HB3	2.01	0.43
1:5:340:THR:O	1:5:407:ARG:NE	2.52	0.43
1:6:244:SER:C	1:6:245:THR:HG1	2.21	0.43
1:6:248:TRP:HB3	1:6:373:PHE:CZ	2.54	0.43
1:6:297:ARG:HG3	1:6:301:ARG:NH1	2.34	0.43
1:6:264:GLY:HA2	1:6:387:SER:HB3	2.01	0.43
1:6:568:ILE:HD12	1:6:572:ASN:HD22	1.84	0.43
1:7:340:THR:O	1:7:407:ARG:NE	2.52	0.43
1:8:522:PRO:O	1:8:541:GLY:HA2	2.18	0.43
1:8:585:ASN:OD1	1:8:594:ILE:N	2.45	0.43
1:A:340:THR:HB	1:J:322:GLN:HB3	87.22	0.43
1:B:264:GLY:HA2	1:B:387:SER:HB3	2.01	0.43
1:B:342:THR:HG22	1:B:407:ARG:CG	2.47	0.43
1:D:522:PRO:O	1:D:541:GLY:HA2	2.18	0.43
1:F:248:TRP:HB3	1:F:373:PHE:CZ	2.54	0.43
1:F:278:TYR:CE2	1:F:395:PHE:HD1	2.37	0.43
1:F:297:ARG:HG3	1:F:301:ARG:NH1	2.34	0.43
1:F:264:GLY:HA2	1:F:387:SER:HB3	2.01	0.43
1:G:264:GLY:HA2	1:G:387:SER:HB3	2.01	0.43
1:A:583:ALA:O	1:G:487:ARG:HD2	2.18	0.43
1:H:254:ASN:C	1:H:256:HIS:N	2.71	0.43
1:F:736:ARG:NH2	1:H:626:HIS:CD2	110.20	0.43
1:I:340:THR:O	1:I:407:ARG:NE	2.52	0.43
1:J:248:TRP:HB3	1:J:373:PHE:CZ	2.54	0.43
1:J:297:ARG:HG3	1:J:301:ARG:NH1	2.34	0.43
1:K:264:GLY:HA2	1:K:387:SER:HB3	2.01	0.43
1:K:522:PRO:O	1:K:541:GLY:HA2	2.18	0.43
1:L:254:ASN:C	1:L:256:HIS:N	2.71	0.43
1:L:264:GLY:HA2	1:L:387:SER:HB3	2.01	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:340:THR:O	1:L:407:ARG:NE	2.52	0.43
1:M:297:ARG:HG3	1:M:301:ARG:NH1	2.34	0.43
1:N:568:ILE:HD12	1:N:572:ASN:HD22	1.84	0.43
1:M:736:ARG:NH2	1:N:626:HIS:CD2	38.21	0.43
1:O:340:THR:O	1:O:407:ARG:CZ	2.67	0.43
1:O:511:TYR:HD2	1:O:520:VAL:HG22	1.84	0.43
1:P:220:ASP:N	1:P:220:ASP:OD1	2.50	0.43
1:P:248:TRP:HB3	1:P:373:PHE:CZ	2.54	0.43
1:P:264:GLY:HA2	1:P:387:SER:HB3	2.01	0.43
1:N:583:ALA:O	1:P:487:ARG:HD2	2.19	0.43
1:P:522:PRO:O	1:P:541:GLY:HA2	2.18	0.43
1:Q:340:THR:O	1:Q:407:ARG:NE	2.52	0.43
1:R:340:THR:O	1:R:407:ARG:NE	2.52	0.43
1:R:290:PHE:HE2	1:R:614:VAL:HB	1.84	0.43
1:S:583:ALA:O	1:U:487:ARG:HD2	2.18	0.43
1:V:297:ARG:HG3	1:V:301:ARG:NH1	2.34	0.43
1:V:264:GLY:HA2	1:V:387:SER:HB3	2.01	0.43
1:Y:244:SER:C	1:Y:245:THR:HG1	2.22	0.43
1:W:464:LEU:HD23	1:Y:554:ASN:HB3	2.00	0.43
1:Y:290:PHE:HE2	1:Y:614:VAL:HB	1.84	0.43
1:2:248:TRP:HB3	1:2:373:PHE:CZ	2.54	0.42
1:Z:487:ARG:HD2	1:3:583:ALA:O	2.18	0.42
1:4:297:ARG:HG3	1:4:301:ARG:NH1	2.34	0.42
1:7:568:ILE:HD12	1:7:572:ASN:HD22	1.84	0.42
1:8:290:PHE:O	1:8:293:HIS:N	2.47	0.42
1:8:297:ARG:HG3	1:8:301:ARG:NH1	2.34	0.42
1:A:583:ALA:O	1:8:487:ARG:HD2	155.50	0.42
1:A:232:ASP:HB3	1:Z:402:PRO:CG	116.08	0.42
1:A:340:THR:O	1:A:407:ARG:CZ	2.67	0.42
1:A:487:ARG:HD2	1:I:583:ALA:O	2.19	0.42
1:A:609:TRP:NE1	1:G:629:GLY:CA	2.58	0.42
1:C:297:ARG:HG3	1:C:301:ARG:NH1	2.34	0.42
1:C:264:GLY:HA2	1:C:387:SER:HB3	2.01	0.42
1:C:340:THR:O	1:C:407:ARG:NE	2.52	0.42
1:D:568:ILE:HD12	1:D:572:ASN:HD22	1.84	0.42
1:E:254:ASN:C	1:E:256:HIS:N	2.71	0.42
1:E:568:ILE:HD12	1:E:572:ASN:HD22	1.84	0.42
1:H:568:ILE:HD12	1:H:572:ASN:HD22	1.84	0.42
1:I:297:ARG:HG3	1:I:301:ARG:NH1	2.34	0.42
1:I:511:TYR:HD2	1:I:520:VAL:HG22	1.84	0.42
1:J:340:THR:O	1:J:407:ARG:NE	2.52	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:609:TRP:CD1	1:L:629:GLY:CA	2.85	0.42
1:K:248:TRP:HB3	1:K:373:PHE:CZ	2.54	0.42
1:K:297:ARG:HG3	1:K:301:ARG:NH1	2.34	0.42
1:M:340:THR:O	1:M:407:ARG:NE	2.52	0.42
1:M:568:ILE:HD12	1:M:572:ASN:HD22	1.84	0.42
1:N:341:SER:HB3	1:N:675:GLN:NE2	2.32	0.42
1:M:487:ARG:HD2	1:O:583:ALA:O	131.96	0.42
1:P:568:ILE:HD12	1:P:572:ASN:HD22	1.84	0.42
1:R:297:ARG:HG3	1:R:301:ARG:NH1	2.34	0.42
1:Q:583:ALA:O	1:R:487:ARG:HD2	80.57	0.42
1:U:264:GLY:HA2	1:U:387:SER:HB3	2.01	0.42
1:U:583:ALA:O	1:V:487:ARG:HD2	80.57	0.42
1:G:322:GLN:HB3	1:W:340:THR:HB	2.01	0.42
1:X:290:PHE:O	1:X:293:HIS:N	2.47	0.42
1:X:526:MET:CE	1:X:575:ALA:HA	2.48	0.42
1:X:579:TYR:OH	1:X:607:MET:CE	2.68	0.42
1:Y:297:ARG:HG3	1:Y:301:ARG:NH1	2.34	0.42
1:Y:511:TYR:HD2	1:Y:520:VAL:HG22	1.84	0.42
1:Z:340:THR:O	1:Z:407:ARG:CZ	2.67	0.42
1:1:341:SER:HB3	1:1:675:GLN:NE2	2.32	0.42
1:1:429:HIS:HD2	1:1:610:GLN:OE1	1.94	0.42
1:3:340:THR:O	1:3:407:ARG:CZ	2.67	0.42
1:3:579:TYR:OH	1:3:607:MET:CE	2.68	0.42
1:5:341:SER:HB3	1:5:675:GLN:NE2	2.32	0.42
1:5:511:TYR:HD2	1:5:520:VAL:HG22	1.84	0.42
1:6:278:TYR:CE2	1:6:395:PHE:HD1	2.37	0.42
1:6:340:THR:O	1:6:407:ARG:CZ	2.67	0.42
1:7:278:TYR:CE2	1:7:395:PHE:HD1	2.37	0.42
1:8:248:TRP:HB3	1:8:373:PHE:CZ	2.54	0.42
1:A:322:GLN:HB3	1:E:340:THR:HB	2.01	0.42
1:A:511:TYR:HD2	1:A:520:VAL:HG22	1.84	0.42
1:D:264:GLY:HA2	1:D:387:SER:HB3	2.01	0.42
1:D:248:TRP:HB3	1:D:373:PHE:CZ	2.54	0.42
1:E:278:TYR:CE2	1:E:395:PHE:HD1	2.37	0.42
1:F:340:THR:O	1:F:407:ARG:CZ	2.67	0.42
1:F:579:TYR:OH	1:F:607:MET:CE	2.67	0.42
1:E:629:GLY:CA	1:F:609:TRP:NE1	2.58	0.42
1:G:297:ARG:HG3	1:G:301:ARG:NH1	2.34	0.42
1:G:511:TYR:HD2	1:G:520:VAL:HG22	1.84	0.42
1:H:244:SER:C	1:H:245:THR:HG1	2.21	0.42
1:H:297:ARG:HG3	1:H:301:ARG:NH1	2.34	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:322:GLN:CB	1:X:340:THR:HB	123.47	0.42
1:L:579:TYR:OH	1:L:607:MET:CE	2.68	0.42
1:L:583:ALA:O	1:T:487:ARG:HD2	229.35	0.42
1:M:322:GLN:HB3	1:N:340:THR:HB	2.01	0.42
1:N:340:THR:HB	1:R:322:GLN:HB3	159.21	0.42
1:N:511:TYR:HD2	1:N:520:VAL:HG22	1.84	0.42
1:O:579:TYR:OH	1:O:607:MET:CE	2.68	0.42
1:P:297:ARG:HG3	1:P:301:ARG:NH1	2.34	0.42
1:Q:297:ARG:HG3	1:Q:301:ARG:NH1	2.34	0.42
1:Q:511:TYR:HD2	1:Q:520:VAL:HG22	1.84	0.42
1:R:264:GLY:HA2	1:R:387:SER:HB3	2.01	0.42
1:S:340:THR:O	1:S:407:ARG:NE	2.52	0.42
1:U:340:THR:O	1:U:407:ARG:NE	2.52	0.42
1:T:583:ALA:O	1:U:487:ARG:HD2	94.88	0.42
1:V:248:TRP:HB3	1:V:373:PHE:CZ	2.54	0.42
1:E:627:THR:HG22	1:V:429:HIS:CE1	116.70	0.42
1:K:407:ARG:CD	1:W:224:SER:O	159.76	0.42
1:W:297:ARG:HG3	1:W:301:ARG:NH1	2.34	0.42
1:W:511:TYR:HD2	1:W:520:VAL:HG22	1.84	0.42
1:Y:248:TRP:HB3	1:Y:373:PHE:CZ	2.54	0.42
1:Y:264:GLY:HA2	1:Y:387:SER:HB3	2.01	0.42
1:Z:579:TYR:OH	1:Z:607:MET:CE	2.67	0.42
1:1:248:TRP:HB3	1:1:373:PHE:CZ	2.54	0.42
1:2:322:GLN:HB3	1:3:340:THR:HB	2.01	0.42
1:2:522:PRO:O	1:2:541:GLY:HA2	2.18	0.42
1:Y:322:GLN:HB3	1:4:340:THR:HB	2.01	0.42
1:4:511:TYR:HD2	1:4:520:VAL:HG22	1.84	0.42
1:4:568:ILE:HD12	1:4:572:ASN:HD22	1.84	0.42
1:5:248:TRP:HB3	1:5:373:PHE:CZ	2.54	0.42
1:5:297:ARG:HG3	1:5:301:ARG:NH1	2.34	0.42
1:5:464:LEU:HD23	1:6:554:ASN:HB3	2.00	0.42
1:6:452:GLN:HE21	1:6:459:GLY:HA3	1.84	0.42
1:7:579:TYR:OH	1:7:607:MET:CE	2.67	0.42
1:A:452:GLN:HE21	1:A:459:GLY:HA3	1.84	0.42
1:B:278:TYR:CE2	1:B:395:PHE:HD1	2.37	0.42
1:B:609:TRP:CD1	1:M:629:GLY:CA	86.07	0.42
1:C:579:TYR:OH	1:C:607:MET:CE	2.67	0.42
1:E:579:TYR:OH	1:E:607:MET:CE	2.67	0.42
1:F:319:PHE:CE1	1:F:680:GLN:HB2	2.55	0.42
1:H:579:TYR:OH	1:H:607:MET:CE	2.68	0.42
1:I:452:GLN:HE21	1:I:459:GLY:HA3	1.84	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:579:TYR:OH	1:J:607:MET:CE	2.68	0.42
1:K:579:TYR:OH	1:K:607:MET:CE	2.67	0.42
1:M:340:THR:O	1:M:407:ARG:CZ	2.67	0.42
1:D:322:GLN:HB3	1:O:340:THR:HB	106.06	0.42
1:O:568:ILE:HD12	1:O:572:ASN:HD22	1.84	0.42
1:P:322:GLN:HB3	1:Q:340:THR:HB	2.01	0.42
1:P:258:TYR:OH	1:P:399:GLU:OE1	2.22	0.42
1:P:511:TYR:HD2	1:P:520:VAL:HG22	1.84	0.42
1:S:579:TYR:OH	1:S:607:MET:CE	2.67	0.42
1:T:568:ILE:HD12	1:T:572:ASN:HD22	1.84	0.42
1:T:579:TYR:OH	1:T:607:MET:CE	2.68	0.42
1:E:402:PRO:CG	1:U:232:ASP:HB3	119.32	0.42
1:U:579:TYR:OH	1:U:607:MET:CE	2.67	0.42
1:V:511:TYR:HD2	1:V:520:VAL:HG22	1.85	0.42
1:V:579:TYR:OH	1:V:607:MET:CE	2.67	0.42
1:W:254:ASN:C	1:W:256:HIS:N	2.71	0.42
1:W:568:ILE:HD12	1:W:572:ASN:HD22	1.84	0.42
1:W:579:TYR:OH	1:W:607:MET:CE	2.68	0.42
1:W:583:ALA:O	1:Y:487:ARG:HD2	2.18	0.42
1:X:254:ASN:C	1:X:256:HIS:N	2.71	0.42
1:Z:568:ILE:HD12	1:Z:572:ASN:HD22	1.84	0.42
1:1:568:ILE:HD12	1:1:572:ASN:HD22	1.84	0.42
1:1:579:TYR:OH	1:1:607:MET:CE	2.68	0.42
1:1:583:ALA:O	1:2:487:ARG:HD2	2.18	0.42
1:4:248:TRP:HB3	1:4:373:PHE:CZ	2.54	0.42
1:6:526:MET:HE1	1:6:575:ALA:HA	2.02	0.42
1:6:579:TYR:OH	1:6:607:MET:CE	2.67	0.42
1:6:609:TRP:NE1	1:7:629:GLY:CA	2.58	0.42
1:7:290:PHE:HE2	1:7:614:VAL:HB	1.84	0.42
1:A:319:PHE:CE1	1:A:680:GLN:HB2	2.55	0.42
1:B:609:TRP:CD1	1:J:629:GLY:CA	2.86	0.42
1:E:490:ARG:CZ	1:V:586:LEU:HD21	176.14	0.42
1:F:340:THR:HB	1:Z:322:GLN:HB3	113.22	0.42
1:F:464:LEU:HD23	1:H:554:ASN:HB3	152.53	0.42
1:F:554:ASN:HB3	1:Q:464:LEU:HD23	2.00	0.42
1:G:220:ASP:N	1:G:220:ASP:OD1	2.50	0.42
1:G:248:TRP:HB3	1:G:373:PHE:CZ	2.54	0.42
1:H:340:THR:O	1:H:407:ARG:NE	2.52	0.42
1:H:511:TYR:HD2	1:H:520:VAL:HG22	1.84	0.42
1:H:319:PHE:CE1	1:H:680:GLN:HB2	2.55	0.42
1:I:232:ASP:HB3	1:T:402:PRO:CG	169.77	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:579:TYR:OH	1:I:607:MET:CE	2.68	0.42
1:J:264:GLY:HA2	1:J:387:SER:HB3	2.01	0.42
1:J:322:GLN:HB3	1:X:340:THR:HB	122.83	0.42
1:J:319:PHE:CE1	1:J:680:GLN:HB2	2.55	0.42
1:K:511:TYR:HD2	1:K:520:VAL:HG22	1.84	0.42
1:K:579:TYR:OH	1:K:607:MET:HE2	2.28	0.42
1:J:736:ARG:NH2	1:K:626:HIS:CD2	52.26	0.42
1:B:340:THR:HB	1:L:322:GLN:HB3	82.60	0.42
1:L:568:ILE:HD12	1:L:572:ASN:HD22	1.84	0.42
1:M:264:GLY:HA2	1:M:387:SER:HB3	2.01	0.42
1:M:450:ARG:HG2	1:M:452:GLN:H	1.85	0.42
1:M:579:TYR:OH	1:M:607:MET:CE	2.67	0.42
1:N:319:PHE:CE1	1:N:680:GLN:HB2	2.55	0.42
1:O:583:ALA:O	1:P:487:ARG:HD2	94.88	0.42
1:Q:579:TYR:OH	1:Q:607:MET:CE	2.68	0.42
1:R:220:ASP:OD1	1:R:220:ASP:N	2.50	0.42
1:R:248:TRP:HB3	1:R:373:PHE:CZ	2.54	0.42
1:S:319:PHE:CE1	1:S:680:GLN:HB2	2.55	0.42
1:T:248:TRP:HB3	1:T:373:PHE:CZ	2.54	0.42
1:U:464:LEU:HD23	1:V:554:ASN:HB3	59.34	0.42
1:U:319:PHE:CE1	1:U:680:GLN:HB2	2.55	0.42
1:W:579:TYR:OH	1:W:607:MET:HE2	2.20	0.42
1:Y:319:PHE:CE1	1:Y:680:GLN:HB2	2.55	0.42
1:Z:340:THR:O	1:Z:407:ARG:NE	2.52	0.42
1:2:450:ARG:HG2	1:2:452:GLN:H	1.85	0.42
1:3:568:ILE:HD12	1:3:572:ASN:HD22	1.84	0.42
1:3:319:PHE:CE1	1:3:680:GLN:HB2	2.55	0.42
1:Z:340:THR:HB	1:4:322:GLN:CB	95.27	0.42
1:A:322:GLN:CB	1:E:340:THR:HB	2.50	0.42
1:A:429:HIS:CE1	1:G:627:THR:HG22	2.54	0.42
1:A:586:LEU:HD21	1:G:490:ARG:CZ	2.50	0.42
1:B:583:ALA:O	1:J:487:ARG:HD2	2.19	0.42
1:B:340:THR:HB	1:C:322:GLN:HB3	2.01	0.42
1:C:340:THR:HB	1:S:322:GLN:CB	107.31	0.42
1:E:290:PHE:HE2	1:E:614:VAL:HB	1.84	0.42
1:D:340:THR:HB	1:E:322:GLN:HB3	2.01	0.42
1:E:704:THR:HB	1:F:702:GLN:HB2	64.47	0.42
1:F:526:MET:HE1	1:F:575:ALA:HA	2.02	0.42
1:G:232:ASP:HB3	1:1:402:PRO:CG	140.77	0.42
1:G:258:TYR:OH	1:G:399:GLU:OE1	2.22	0.42
1:G:435:ARG:HA	1:G:435:ARG:HD3	1.79	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:579:TYR:OH	1:G:607:MET:CE	2.68	0.42
1:H:322:GLN:CB	1:I:340:THR:HB	2.50	0.42
1:H:579:TYR:OH	1:H:607:MET:HE2	2.26	0.42
1:I:254:ASN:C	1:I:256:HIS:N	2.71	0.42
1:J:340:THR:O	1:J:407:ARG:CZ	2.67	0.42
1:I:736:ARG:NH2	1:J:626:HIS:CD2	38.21	0.42
1:G:402:PRO:CG	1:K:232:ASP:HB3	121.79	0.42
1:L:340:THR:HB	1:N:322:GLN:CB	118.94	0.42
1:L:340:THR:HB	1:N:322:GLN:HB3	118.82	0.42
1:L:319:PHE:CE1	1:L:680:GLN:HB2	2.55	0.42
1:M:452:GLN:HE21	1:M:459:GLY:HA3	1.84	0.42
1:B:583:ALA:O	1:M:487:ARG:HD2	104.84	0.42
1:O:232:ASP:HB3	1:P:402:PRO:CG	2.46	0.42
1:O:319:PHE:CE1	1:O:680:GLN:HB2	2.55	0.42
1:R:568:ILE:HD12	1:R:572:ASN:HD22	1.84	0.42
1:R:579:TYR:OH	1:R:607:MET:CE	2.68	0.42
1:D:487:ARG:HD2	1:T:583:ALA:O	145.94	0.42
1:U:248:TRP:HB3	1:U:373:PHE:CZ	2.54	0.42
1:K:409:GLY:N	1:W:223:GLY:O	156.59	0.42
1:W:340:THR:O	1:W:407:ARG:NE	2.52	0.42
1:W:450:ARG:HG2	1:W:452:GLN:H	1.85	0.42
1:W:319:PHE:CE1	1:W:680:GLN:HB2	2.55	0.42
1:X:244:SER:C	1:X:245:THR:HG1	2.20	0.42
1:W:503:PHE:CE2	1:Y:451:THR:HG21	41.98	0.42
1:Y:568:ILE:HD12	1:Y:572:ASN:HD22	1.84	0.42
1:Z:319:PHE:CE1	1:Z:680:GLN:HB2	2.55	0.42
1:A:322:GLN:HB3	1:Z:340:THR:HB	105.40	0.42
1:Z:450:ARG:HG2	1:Z:452:GLN:H	1.85	0.42
1:Z:583:ALA:O	1:1:487:ARG:HD2	89.16	0.42
1:1:264:GLY:HA2	1:1:387:SER:HB3	2.01	0.42
1:V:340:THR:HB	1:1:322:GLN:HB3	162.67	0.42
1:2:232:ASP:HB3	1:3:402:PRO:CG	2.46	0.42
1:U:322:GLN:CB	1:2:340:THR:HB	168.80	0.42
1:2:340:THR:O	1:2:407:ARG:NE	2.52	0.42
1:2:319:PHE:CE1	1:2:680:GLN:HB2	2.55	0.42
1:4:319:PHE:CE1	1:4:680:GLN:HB2	2.55	0.42
1:8:452:GLN:HE21	1:8:459:GLY:HA3	1.84	0.42
1:8:579:TYR:OH	1:8:607:MET:CE	2.67	0.42
1:D:232:ASP:HB3	1:O:402:PRO:CG	103.46	0.42
1:D:340:THR:HB	1:S:322:GLN:CB	100.87	0.42
1:D:340:THR:O	1:D:407:ARG:NE	2.52	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:450:ARG:HG2	1:D:452:GLN:H	1.85	0.42
1:D:704:THR:HB	1:M:702:GLN:HB2	2.02	0.42
1:E:312:LYS:HA	1:E:312:LYS:HD2	1.90	0.42
1:E:322:GLN:CB	1:H:340:THR:HB	118.93	0.42
1:E:319:PHE:CE1	1:E:680:GLN:HB2	2.55	0.42
1:K:340:THR:HB	1:7:322:GLN:HB3	2.01	0.42
1:K:340:THR:O	1:K:407:ARG:NE	2.52	0.42
1:J:702:GLN:HB2	1:K:704:THR:HB	2.02	0.42
1:M:340:THR:HB	1:N:322:GLN:HB3	23.24	0.42
1:O:251:PRO:HG3	1:O:374:MET:CE	2.50	0.42
1:O:322:GLN:CB	1:P:340:THR:HB	2.49	0.42
1:O:290:PHE:HE2	1:O:614:VAL:HB	1.84	0.42
1:Q:450:ARG:HG2	1:Q:452:GLN:H	1.85	0.42
1:S:464:LEU:HD23	1:U:554:ASN:HB3	2.00	0.42
1:S:568:ILE:HD12	1:S:572:ASN:HD22	1.84	0.42
1:T:264:GLY:HA2	1:T:387:SER:HB3	2.01	0.42
1:V:319:PHE:CE1	1:V:680:GLN:HB2	2.55	0.42
1:X:297:ARG:HG3	1:X:301:ARG:NH1	2.34	0.42
1:T:656:VAL:HG11	1:Y:324:LYS:HE3	128.47	0.42
1:Y:579:TYR:OH	1:Y:607:MET:CE	2.67	0.42
1:Z:435:ARG:HA	1:Z:435:ARG:HD3	1.79	0.42
1:1:700:GLU:HB2	1:1:702:GLN:HE21	1.85	0.42
1:2:340:THR:O	1:2:407:ARG:CZ	2.67	0.42
1:Z:490:ARG:CZ	1:2:586:LEU:HD21	109.60	0.42
1:3:251:PRO:HG3	1:3:374:MET:CE	2.50	0.42
1:3:322:GLN:CB	1:8:340:THR:HB	2.49	0.42
1:3:700:GLU:HB2	1:3:702:GLN:HE21	1.85	0.42
1:4:579:TYR:OH	1:4:607:MET:CE	2.68	0.42
1:5:340:THR:O	1:5:407:ARG:CZ	2.67	0.42
1:P:402:PRO:CG	1:6:232:ASP:HB3	140.77	0.42
1:7:264:GLY:HA2	1:7:387:SER:HB3	2.01	0.42
1:O:322:GLN:CB	1:7:340:THR:HB	164.08	0.42
1:O:322:GLN:HB3	1:7:340:THR:HB	163.24	0.42
1:8:341:SER:HB3	1:8:675:GLN:NE2	2.32	0.42
1:A:251:PRO:HG3	1:A:374:MET:CE	2.50	0.42
1:B:251:PRO:HG3	1:B:374:MET:CE	2.50	0.42
1:B:340:THR:O	1:B:407:ARG:NE	2.52	0.42
1:C:319:PHE:CE1	1:C:680:GLN:HB2	2.55	0.42
1:D:251:PRO:HG3	1:D:374:MET:CE	2.50	0.42
1:D:256:HIS:CD2	1:D:655:PRO:HB3	2.55	0.42
1:D:319:PHE:CE1	1:D:680:GLN:HB2	2.55	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:232:ASP:HB3	1:G:402:PRO:CG	2.47	0.42
1:F:626:HIS:CD2	1:G:736:ARG:NH2	82.70	0.42
1:G:251:PRO:HG3	1:G:374:MET:CE	2.50	0.42
1:I:256:HIS:CD2	1:I:655:PRO:HB3	2.55	0.42
1:J:464:LEU:HD23	1:K:554:ASN:HB3	59.34	0.42
1:K:251:PRO:HG3	1:K:374:MET:CE	2.50	0.42
1:K:290:PHE:HE2	1:K:614:VAL:HB	1.84	0.42
1:L:297:ARG:HG3	1:L:301:ARG:NH1	2.34	0.42
1:L:511:TYR:HD2	1:L:520:VAL:HG22	1.84	0.42
1:L:609:TRP:CD1	1:T:629:GLY:CA	194.43	0.42
1:M:700:GLU:HB2	1:M:702:GLN:HE21	1.85	0.42
1:M:340:THR:HB	1:N:322:GLN:CB	23.19	0.42
1:N:450:ARG:HG2	1:N:452:GLN:H	1.85	0.42
1:O:700:GLU:HB2	1:O:702:GLN:HE21	1.85	0.42
1:O:704:THR:HB	1:6:702:GLN:HB2	153.49	0.42
1:P:251:PRO:HG3	1:P:374:MET:CE	2.50	0.42
1:P:579:TYR:OH	1:P:607:MET:CE	2.68	0.42
1:Q:340:THR:O	1:Q:407:ARG:CZ	2.67	0.42
1:Q:256:HIS:CD2	1:Q:655:PRO:HB3	2.55	0.42
1:S:251:PRO:HG3	1:S:374:MET:CE	2.50	0.42
1:S:450:ARG:HG2	1:S:452:GLN:H	1.85	0.42
1:T:700:GLU:HB2	1:T:702:GLN:HE21	1.85	0.42
1:U:251:PRO:HG3	1:U:374:MET:CE	2.50	0.42
1:T:322:GLN:HB3	1:U:340:THR:HB	2.01	0.42
1:U:450:ARG:HG2	1:U:452:GLN:H	1.85	0.42
1:V:700:GLU:HB2	1:V:702:GLN:HE21	1.85	0.42
1:X:278:TYR:CE2	1:X:395:PHE:HD1	2.37	0.42
1:X:450:ARG:HG2	1:X:452:GLN:H	1.85	0.42
1:X:290:PHE:HE2	1:X:614:VAL:HB	1.84	0.42
1:X:319:PHE:CE1	1:X:680:GLN:HB2	2.55	0.42
1:A:322:GLN:CB	1:Z:340:THR:HB	105.36	0.42
1:Z:511:TYR:HD2	1:Z:520:VAL:HG22	1.84	0.42
1:Z:700:GLU:HB2	1:Z:702:GLN:HE21	1.85	0.42
1:2:256:HIS:CD2	1:2:655:PRO:HB3	2.55	0.42
1:2:568:ILE:HD12	1:2:572:ASN:HD22	1.84	0.42
1:2:700:GLU:HB2	1:2:702:GLN:HE21	1.85	0.42
1:3:232:ASP:HB3	1:8:402:PRO:CG	2.46	0.42
1:4:450:ARG:HG2	1:4:452:GLN:H	1.85	0.42
1:5:579:TYR:OH	1:5:607:MET:CE	2.68	0.42
1:5:319:PHE:CE1	1:5:680:GLN:HB2	2.55	0.42
1:7:256:HIS:CD2	1:7:655:PRO:HB3	2.55	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:8:251:PRO:HG3	1:8:374:MET:CE	2.50	0.42
1:8:340:THR:O	1:8:407:ARG:CZ	2.67	0.42
1:A:450:ARG:HG2	1:A:452:GLN:H	1.85	0.42
1:A:700:GLU:HB2	1:A:702:GLN:HE21	1.85	0.42
1:B:579:TYR:OH	1:B:607:MET:CE	2.67	0.42
1:C:256:HIS:CD2	1:C:655:PRO:HB3	2.55	0.42
1:C:571:THR:HG22	1:C:608:VAL:O	2.20	0.42
1:C:609:TRP:C	1:C:609:TRP:CD1	2.93	0.42
1:D:700:GLU:HB2	1:D:702:GLN:HE21	1.85	0.42
1:E:256:HIS:CD2	1:E:655:PRO:HB3	2.55	0.42
1:E:421:VAL:CG2	1:E:422:PRO:HD2	2.50	0.42
1:F:251:PRO:HG3	1:F:374:MET:CE	2.50	0.42
1:G:256:HIS:CD2	1:G:655:PRO:HB3	2.55	0.42
1:H:251:PRO:HG3	1:H:374:MET:CE	2.50	0.42
1:I:290:PHE:O	1:I:293:HIS:N	2.47	0.42
1:J:251:PRO:HG3	1:J:374:MET:CE	2.50	0.42
1:K:256:HIS:CD2	1:K:655:PRO:HB3	2.55	0.42
1:L:450:ARG:HG2	1:L:452:GLN:H	1.85	0.42
1:D:586:LEU:HD21	1:L:490:ARG:CZ	148.76	0.42
1:L:571:THR:HG22	1:L:608:VAL:O	2.20	0.42
1:L:609:TRP:C	1:L:609:TRP:CD1	2.93	0.42
1:N:421:VAL:CG2	1:N:422:PRO:HD2	2.50	0.42
1:N:579:TYR:OH	1:N:607:MET:CE	2.68	0.42
1:O:609:TRP:NE1	1:P:629:GLY:CA	55.64	0.42
1:O:256:HIS:CD2	1:O:655:PRO:HB3	2.55	0.42
1:P:341:SER:HB3	1:P:675:GLN:NE2	2.32	0.42
1:Q:700:GLU:HB2	1:Q:702:GLN:HE21	1.85	0.42
1:S:435:ARG:HA	1:S:435:ARG:HD3	1.80	0.42
1:S:571:THR:HG22	1:S:608:VAL:O	2.20	0.42
1:S:609:TRP:NE1	1:U:629:GLY:CA	2.58	0.42
1:T:342:THR:HG22	1:T:407:ARG:HA	2.02	0.42
1:T:511:TYR:HD2	1:T:520:VAL:HG22	1.84	0.42
1:L:736:ARG:NH2	1:T:626:HIS:CD2	178.74	0.42
1:U:571:THR:HG22	1:U:608:VAL:O	2.20	0.42
1:V:251:PRO:HG3	1:V:374:MET:CE	2.50	0.42
1:V:340:THR:HB	1:W:322:GLN:CB	2.49	0.42
1:W:421:VAL:CG2	1:W:422:PRO:HD2	2.50	0.42
1:W:256:HIS:CD2	1:W:655:PRO:HB3	2.55	0.42
1:W:700:GLU:HB2	1:W:702:GLN:HE21	1.85	0.42
1:X:434:ASP:N	1:X:434:ASP:OD1	2.41	0.42
1:X:511:TYR:HD2	1:X:520:VAL:HG22	1.84	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Y:434:ASP:N	1:Y:434:ASP:OD1	2.41	0.42
1:W:629:GLY:CA	1:Y:609:TRP:NE1	17.22	0.42
1:Y:700:GLU:HB2	1:Y:702:GLN:HE21	1.85	0.42
1:Z:251:PRO:HG3	1:Z:374:MET:CE	2.50	0.42
1:Z:264:GLY:HA2	1:Z:387:SER:HB3	2.01	0.42
1:Z:297:ARG:HG3	1:Z:301:ARG:NH1	2.34	0.42
1:2:264:GLY:HA2	1:2:387:SER:HB3	2.01	0.42
1:3:297:ARG:HG3	1:3:301:ARG:NH1	2.34	0.42
1:3:571:THR:HG22	1:3:608:VAL:O	2.20	0.42
1:3:429:HIS:HD2	1:3:610:GLN:OE1	1.94	0.42
1:Z:340:THR:HB	1:4:322:GLN:HB3	95.31	0.42
1:5:256:HIS:CD2	1:5:655:PRO:HB3	2.55	0.42
1:6:254:ASN:C	1:6:256:HIS:N	2.71	0.42
1:6:700:GLU:HB2	1:6:702:GLN:HE21	1.85	0.42
1:7:290:PHE:O	1:7:293:HIS:N	2.47	0.42
1:7:319:PHE:CE1	1:7:680:GLN:HB2	2.55	0.42
1:7:340:THR:O	1:7:407:ARG:CZ	2.67	0.42
1:7:421:VAL:CG2	1:7:422:PRO:HD2	2.50	0.42
1:7:511:TYR:HD2	1:7:520:VAL:HG22	1.84	0.42
1:A:421:VAL:CG2	1:A:422:PRO:HD2	2.50	0.42
1:A:571:THR:HG22	1:A:608:VAL:O	2.20	0.42
1:A:579:TYR:OH	1:A:607:MET:CE	2.68	0.42
1:B:244:SER:C	1:B:245:THR:HG1	2.23	0.42
1:B:256:HIS:CD2	1:B:655:PRO:HB3	2.55	0.42
1:B:571:THR:HG22	1:B:608:VAL:O	2.20	0.42
1:C:450:ARG:HG2	1:C:452:GLN:H	1.85	0.42
1:D:511:TYR:HD2	1:D:520:VAL:HG22	1.84	0.42
1:D:579:TYR:OH	1:D:607:MET:CE	2.67	0.42
1:D:290:PHE:HE2	1:D:614:VAL:HB	1.84	0.42
1:E:290:PHE:O	1:E:293:HIS:N	2.47	0.42
1:E:342:THR:HG22	1:E:407:ARG:HA	2.02	0.42
1:E:511:TYR:HD2	1:E:520:VAL:HG22	1.84	0.42
1:E:609:TRP:C	1:E:609:TRP:CD1	2.94	0.42
1:E:702:GLN:HB2	1:P:704:THR:HB	2.02	0.42
1:F:484:PRO:HD2	1:F:609:TRP:CE3	2.55	0.42
1:G:319:PHE:CE1	1:G:680:GLN:HB2	2.55	0.42
1:G:571:THR:HG22	1:G:608:VAL:O	2.20	0.42
1:H:256:HIS:CD2	1:H:655:PRO:HB3	2.55	0.42
1:H:571:THR:HG22	1:H:608:VAL:O	2.20	0.42
1:I:264:GLY:HA2	1:I:387:SER:HB3	2.01	0.42
1:J:340:THR:HB	1:L:322:GLN:HB3	95.31	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:322:GLN:CB	1:L:340:THR:HB	2.49	0.42
1:K:450:ARG:HG2	1:K:452:GLN:H	1.85	0.42
1:A:490:ARG:CZ	1:K:586:LEU:HD21	162.53	0.42
1:K:319:PHE:CE1	1:K:680:GLN:HB2	2.55	0.42
1:L:251:PRO:HG3	1:L:374:MET:CE	2.50	0.42
1:B:490:ARG:CZ	1:L:586:LEU:HD21	2.50	0.42
1:L:256:HIS:CD2	1:L:655:PRO:HB3	2.55	0.42
1:M:342:THR:HG22	1:M:407:ARG:HA	2.02	0.42
1:M:571:THR:HG22	1:M:608:VAL:O	2.20	0.42
1:O:450:ARG:HG2	1:O:452:GLN:H	1.85	0.42
1:P:340:THR:O	1:P:407:ARG:NE	2.52	0.42
1:P:319:PHE:CE1	1:P:680:GLN:HB2	2.55	0.42
1:Q:319:PHE:CE1	1:Q:680:GLN:HB2	2.55	0.42
1:R:319:PHE:CE1	1:R:680:GLN:HB2	2.55	0.42
1:R:511:TYR:HD2	1:R:520:VAL:HG22	1.84	0.42
1:R:256:HIS:CD2	1:R:655:PRO:HB3	2.55	0.42
1:T:319:PHE:CE1	1:T:680:GLN:HB2	2.55	0.42
1:E:340:THR:HB	1:U:322:GLN:HB3	155.83	0.42
1:U:342:THR:HG22	1:U:407:ARG:HA	2.02	0.42
1:U:511:TYR:HD2	1:U:520:VAL:HG22	1.84	0.42
1:W:342:THR:HG22	1:W:407:ARG:HA	2.02	0.42
1:X:256:HIS:CD2	1:X:655:PRO:HB3	2.55	0.42
1:X:264:GLY:HA2	1:X:387:SER:HB3	2.01	0.42
1:X:322:GLN:CB	1:Y:340:THR:HB	2.50	0.42
1:E:586:LEU:HD21	1:X:490:ARG:CZ	136.56	0.42
1:Y:256:HIS:CD2	1:Y:655:PRO:HB3	2.55	0.42
1:Z:421:VAL:CG2	1:Z:422:PRO:HD2	2.50	0.42
1:Z:571:THR:HG22	1:Z:608:VAL:O	2.20	0.42
1:Z:609:TRP:CD1	1:1:629:GLY:CA	83.67	0.42
1:1:342:THR:HG22	1:1:407:ARG:HA	2.02	0.42
1:1:511:TYR:HD2	1:1:520:VAL:HG22	1.84	0.42
1:2:484:PRO:HD2	1:2:609:TRP:CE3	2.55	0.42
1:2:579:TYR:OH	1:2:607:MET:CE	2.68	0.42
1:Z:490:ARG:CZ	1:3:586:LEU:HD21	2.50	0.42
1:4:342:THR:HG22	1:4:407:ARG:HA	2.02	0.42
1:5:251:PRO:HG3	1:5:374:MET:CE	2.50	0.42
1:O:324:LYS:HE3	1:7:656:VAL:HG11	174.10	0.42
1:8:434:ASP:N	1:8:434:ASP:OD1	2.41	0.42
1:7:702:GLN:HB2	1:8:704:THR:HB	2.02	0.42
1:A:340:THR:HB	1:J:322:GLN:CB	87.10	0.42
1:A:609:TRP:CD1	1:A:609:TRP:C	2.93	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:256:HIS:CD2	1:A:655:PRO:HB3	2.55	0.42
1:B:322:GLN:HB3	1:O:340:THR:HB	122.83	0.42
1:B:421:VAL:CG2	1:B:422:PRO:HD2	2.50	0.42
1:B:490:ARG:CZ	1:C:586:LEU:HD21	113.43	0.42
1:B:319:PHE:CE1	1:B:680:GLN:HB2	2.55	0.42
1:C:342:THR:HG22	1:C:407:ARG:HA	2.02	0.42
1:C:340:THR:HB	1:D:322:GLN:CB	2.49	0.42
1:D:571:THR:HG22	1:D:608:VAL:O	2.20	0.42
1:D:484:PRO:HD2	1:D:609:TRP:CE3	2.55	0.42
1:E:571:THR:HG22	1:E:608:VAL:O	2.20	0.42
1:F:322:GLN:HB3	1:G:340:THR:HB	2.01	0.42
1:F:511:TYR:HD2	1:F:520:VAL:HG22	1.85	0.42
1:F:700:GLU:HB2	1:F:702:GLN:HE21	1.85	0.42
1:G:342:THR:HG22	1:G:407:ARG:HA	2.02	0.42
1:F:490:ARG:CZ	1:G:586:LEU:HD21	81.94	0.42
1:G:290:PHE:HE2	1:G:614:VAL:HB	1.84	0.42
1:H:421:VAL:CG2	1:H:422:PRO:HD2	2.50	0.42
1:H:450:ARG:HG2	1:H:452:GLN:H	1.85	0.42
1:I:586:LEU:HD21	1:J:490:ARG:CZ	113.43	0.42
1:I:571:THR:HG22	1:I:608:VAL:O	2.20	0.42
1:J:324:LYS:HE3	1:X:656:VAL:HG11	131.86	0.42
1:J:342:THR:HG22	1:J:407:ARG:HA	2.02	0.42
1:J:511:TYR:HD2	1:J:520:VAL:HG22	1.84	0.42
1:J:484:PRO:HD2	1:J:609:TRP:CE3	2.55	0.42
1:K:340:THR:HB	1:W:322:GLN:NE2	171.88	0.42
1:L:342:THR:HG22	1:L:407:ARG:HA	2.02	0.42
1:L:421:VAL:CG2	1:L:422:PRO:HD2	2.50	0.42
1:M:421:VAL:CG2	1:M:422:PRO:HD2	2.50	0.42
1:M:490:ARG:CZ	1:O:586:LEU:HD21	134.48	0.42
1:M:511:TYR:HD2	1:M:520:VAL:HG22	1.84	0.42
1:M:319:PHE:CE1	1:M:680:GLN:HB2	2.55	0.42
1:N:256:HIS:CD2	1:N:655:PRO:HB3	2.55	0.42
1:N:342:THR:HG22	1:N:407:ARG:HA	2.02	0.42
1:N:571:THR:HG22	1:N:608:VAL:O	2.20	0.42
1:O:571:THR:HG22	1:O:608:VAL:O	2.20	0.42
1:O:609:TRP:C	1:O:609:TRP:CD1	2.93	0.42
1:O:484:PRO:HD2	1:O:609:TRP:CE3	2.55	0.42
1:P:342:THR:HG22	1:P:407:ARG:HA	2.02	0.42
1:P:571:THR:HG22	1:P:608:VAL:O	2.20	0.42
1:Q:251:PRO:HG3	1:Q:374:MET:CE	2.50	0.42
1:R:340:THR:HB	1:V:322:GLN:CB	2.50	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:R:340:THR:HB	1:X:322:GLN:CB	88.05	0.42
1:R:609:TRP:C	1:R:609:TRP:CD1	2.93	0.42
1:C:656:VAL:HG11	1:S:324:LYS:HE3	114.73	0.42
1:S:511:TYR:HD2	1:S:520:VAL:HG22	1.85	0.42
1:T:256:HIS:CD2	1:T:655:PRO:HB3	2.55	0.42
1:S:702:GLN:HB2	1:T:704:THR:HB	2.02	0.42
1:U:421:VAL:CG2	1:U:422:PRO:HD2	2.50	0.42
1:V:342:THR:HG22	1:V:407:ARG:HA	2.02	0.42
1:W:251:PRO:HG3	1:W:374:MET:CE	2.50	0.42
1:G:322:GLN:CB	1:W:340:THR:HB	2.50	0.42
1:W:571:THR:HG22	1:W:608:VAL:O	2.20	0.42
1:W:609:TRP:CD1	1:W:609:TRP:C	2.93	0.42
1:F:322:GLN:CB	1:X:340:THR:HB	114.20	0.42
1:X:695:LYS:HB3	1:Y:401:PHE:HE1	36.06	0.42
1:Y:421:VAL:CG2	1:Y:422:PRO:HD2	2.50	0.42
1:1:251:PRO:HG3	1:1:374:MET:CE	2.50	0.41
1:1:319:PHE:CE1	1:1:680:GLN:HB2	2.55	0.41
1:U:704:THR:HB	1:1:702:GLN:HB2	172.30	0.41
1:2:527:ALA:O	1:2:575:ALA:N	2.45	0.41
1:2:571:THR:HG22	1:2:608:VAL:O	2.20	0.41
1:3:609:TRP:CD1	1:3:609:TRP:C	2.93	0.41
1:3:484:PRO:HD2	1:3:609:TRP:CE3	2.55	0.41
1:5:381:LEU:HA	1:5:381:LEU:HD23	1.90	0.41
1:5:609:TRP:CD1	1:5:609:TRP:C	2.93	0.41
1:T:702:GLN:HB2	1:5:704:THR:HB	203.78	0.41
1:7:312:LYS:HA	1:7:312:LYS:HD2	1.90	0.41
1:7:571:THR:HG22	1:7:608:VAL:O	2.20	0.41
1:8:450:ARG:HG2	1:8:452:GLN:H	1.85	0.41
1:B:450:ARG:HG2	1:B:452:GLN:H	1.85	0.41
1:B:511:TYR:HD2	1:B:520:VAL:HG22	1.84	0.41
1:C:244:SER:C	1:C:245:THR:HG1	2.23	0.41
1:C:340:THR:HB	1:S:322:GLN:HB3	107.19	0.41
1:C:568:ILE:HD12	1:C:572:ASN:HD22	1.84	0.41
1:C:586:LEU:HD21	1:O:490:ARG:CZ	135.05	0.41
1:C:402:PRO:CG	1:D:232:ASP:HB3	2.46	0.41
1:D:586:LEU:HD21	1:N:490:ARG:CZ	2.50	0.41
1:E:324:LYS:HE3	1:H:656:VAL:HG11	128.69	0.41
1:E:700:GLU:HB2	1:E:702:GLN:HE21	1.85	0.41
1:F:398:LEU:C	1:F:400:TYR:H	2.24	0.41
1:G:568:ILE:HD12	1:G:572:ASN:HD22	1.84	0.41
1:H:324:LYS:HE3	1:I:656:VAL:HG11	2.02	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:342:THR:HG22	1:H:407:ARG:HA	2.02	0.41
1:I:435:ARG:HD3	1:I:435:ARG:HA	1.79	0.41
1:I:450:ARG:HG2	1:I:452:GLN:H	1.85	0.41
1:I:319:PHE:CE1	1:I:680:GLN:HB2	2.55	0.41
1:J:421:VAL:CG2	1:J:422:PRO:HD2	2.50	0.41
1:J:609:TRP:C	1:J:609:TRP:CD1	2.93	0.41
1:K:571:THR:HG22	1:K:608:VAL:O	2.20	0.41
1:K:484:PRO:HD2	1:K:609:TRP:CE3	2.55	0.41
1:M:251:PRO:HG3	1:M:374:MET:CE	2.50	0.41
1:M:322:GLN:CB	1:N:340:THR:HB	2.50	0.41
1:M:322:GLN:HB3	1:S:340:THR:HB	109.60	0.41
1:M:609:TRP:CD1	1:M:609:TRP:C	2.93	0.41
1:O:381:LEU:HA	1:O:381:LEU:HD23	1.90	0.41
1:O:342:THR:HG22	1:O:407:ARG:HA	2.02	0.41
1:P:322:GLN:CB	1:Q:340:THR:HB	2.50	0.41
1:P:450:ARG:HG2	1:P:452:GLN:H	1.85	0.41
1:O:586:LEU:HD21	1:P:490:ARG:CZ	113.44	0.41
1:Q:421:VAL:CG2	1:Q:422:PRO:HD2	2.50	0.41
1:Q:609:TRP:CD1	1:Q:609:TRP:C	2.93	0.41
1:P:324:LYS:HE3	1:Q:656:VAL:HG11	2.03	0.41
1:R:398:LEU:C	1:R:400:TYR:H	2.24	0.41
1:R:421:VAL:CG2	1:R:422:PRO:HD2	2.50	0.41
1:S:244:SER:C	1:S:245:THR:HG1	2.22	0.41
1:S:256:HIS:CD2	1:S:655:PRO:HB3	2.55	0.41
1:Q:322:GLN:CB	1:S:340:THR:HB	2.50	0.41
1:S:342:THR:HG22	1:S:407:ARG:HA	2.02	0.41
1:T:251:PRO:HG3	1:T:374:MET:CE	2.50	0.41
1:T:450:ARG:HG2	1:T:452:GLN:H	1.85	0.41
1:U:256:HIS:CD2	1:U:655:PRO:HB3	2.55	0.41
1:U:382:THR:HG21	1:U:394:SER:N	2.35	0.41
1:U:702:GLN:HB2	1:1:704:THR:HB	174.09	0.41
1:V:421:VAL:CG2	1:V:422:PRO:HD2	2.50	0.41
1:G:324:LYS:HE3	1:W:656:VAL:HG11	2.02	0.41
1:X:251:PRO:HG3	1:X:374:MET:CE	2.50	0.41
1:X:324:LYS:HE3	1:Y:656:VAL:HG11	2.02	0.41
1:X:328:GLN:HE22	1:X:333:LYS:CG	2.30	0.41
1:X:568:ILE:HD12	1:X:572:ASN:HD22	1.84	0.41
1:Y:342:THR:HG22	1:Y:407:ARG:HA	2.02	0.41
1:Y:609:TRP:CD1	1:Y:609:TRP:C	2.93	0.41
1:Z:342:THR:HG22	1:Z:407:ARG:HA	2.02	0.41
1:Z:609:TRP:C	1:Z:609:TRP:CD1	2.93	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Z:256:HIS:CD2	1:Z:655:PRO:HB3	2.55	0.41
1:2:251:PRO:HG3	1:2:374:MET:CE	2.50	0.41
1:3:256:HIS:CD2	1:3:655:PRO:HB3	2.55	0.41
1:3:290:PHE:HE2	1:3:614:VAL:HB	1.84	0.41
1:4:251:PRO:HG3	1:4:374:MET:CE	2.50	0.41
1:5:340:THR:HB	1:8:322:GLN:CB	2.50	0.41
1:P:340:THR:HB	1:6:322:GLN:HB3	165.71	0.41
1:P:656:VAL:HG11	1:6:324:LYS:HE3	174.39	0.41
1:6:398:LEU:C	1:6:400:TYR:H	2.24	0.41
1:6:571:THR:HG22	1:6:608:VAL:O	2.20	0.41
1:7:700:GLU:HB2	1:7:702:GLN:HE21	1.85	0.41
1:8:328:GLN:HE22	1:8:333:LYS:CG	2.30	0.41
1:8:340:THR:O	1:8:407:ARG:NE	2.52	0.41
1:8:256:HIS:CD2	1:8:655:PRO:HB3	2.55	0.41
1:A:342:THR:HG22	1:A:407:ARG:HA	2.02	0.41
1:A:490:ARG:CZ	1:I:586:LEU:HD21	2.50	0.41
1:B:342:THR:HG22	1:B:407:ARG:HA	2.02	0.41
1:C:511:TYR:HD2	1:C:520:VAL:HG22	1.84	0.41
1:E:251:PRO:HG3	1:E:374:MET:CE	2.50	0.41
1:F:609:TRP:CD1	1:F:609:TRP:C	2.93	0.41
1:G:328:GLN:HE22	1:G:333:LYS:CG	2.30	0.41
1:G:382:THR:HG21	1:G:394:SER:N	2.36	0.41
1:G:421:VAL:CG2	1:G:422:PRO:HD2	2.50	0.41
1:H:340:THR:HB	1:Z:322:GLN:HB3	2.01	0.41
1:H:526:MET:HE1	1:H:575:ALA:HA	2.02	0.41
1:H:609:TRP:CD1	1:H:609:TRP:C	2.93	0.41
1:I:421:VAL:CG2	1:I:422:PRO:HD2	2.50	0.41
1:K:220:ASP:N	1:K:220:ASP:OD1	2.50	0.41
1:K:421:VAL:CG2	1:K:422:PRO:HD2	2.50	0.41
1:N:251:PRO:HG3	1:N:374:MET:CE	2.50	0.41
1:O:312:LYS:HA	1:O:312:LYS:HD2	1.90	0.41
1:O:398:LEU:C	1:O:400:TYR:H	2.24	0.41
1:O:421:VAL:CG2	1:O:422:PRO:HD2	2.50	0.41
1:O:526:MET:HE2	1:O:575:ALA:HA	2.11	0.41
1:P:382:THR:HG21	1:P:394:SER:N	2.35	0.41
1:P:421:VAL:CG2	1:P:422:PRO:HD2	2.50	0.41
1:P:290:PHE:HE2	1:P:614:VAL:HB	1.84	0.41
1:Q:290:PHE:O	1:Q:293:HIS:N	2.47	0.41
1:Q:398:LEU:C	1:Q:400:TYR:H	2.24	0.41
1:R:340:THR:HB	1:V:322:GLN:HB3	2.01	0.41
1:R:382:THR:HG21	1:R:394:SER:N	2.36	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:R:342:THR:HG22	1:R:407:ARG:HA	2.02	0.41
1:R:450:ARG:HG2	1:R:452:GLN:H	1.85	0.41
1:R:700:GLU:HB2	1:R:702:GLN:HE21	1.85	0.41
1:S:398:LEU:C	1:S:400:TYR:H	2.24	0.41
1:S:484:PRO:HD2	1:S:609:TRP:CE3	2.55	0.41
1:S:704:THR:HB	1:T:702:GLN:HB2	2.02	0.41
1:U:340:THR:HB	1:5:322:GLN:CB	177.63	0.41
1:U:484:PRO:HD2	1:U:609:TRP:CE3	2.55	0.41
1:U:700:GLU:HB2	1:U:702:GLN:HE21	1.85	0.41
1:W:328:GLN:HE22	1:W:333:LYS:CG	2.30	0.41
1:X:512:HIS:CE1	1:X:515:GLY:HA2	2.56	0.41
1:2:511:TYR:HD2	1:2:520:VAL:HG22	1.84	0.41
1:3:398:LEU:C	1:3:400:TYR:H	2.24	0.41
1:3:659:ASP:N	1:3:659:ASP:OD1	2.54	0.41
1:4:421:VAL:CG2	1:4:422:PRO:HD2	2.50	0.41
1:5:450:ARG:HG2	1:5:452:GLN:H	1.85	0.41
1:5:484:PRO:HD2	1:5:609:TRP:CE3	2.55	0.41
1:7:253:TYR:HB2	1:7:281:PRO:O	2.21	0.41
1:7:435:ARG:HD3	1:7:435:ARG:HA	1.79	0.41
1:7:484:PRO:HD2	1:7:609:TRP:CE3	2.55	0.41
1:8:700:GLU:HB2	1:8:702:GLN:HE21	1.85	0.41
1:A:324:LYS:HE3	1:E:656:VAL:HG11	2.02	0.41
1:A:702:GLN:HB2	1:3:704:THR:HB	151.94	0.41
1:A:704:THR:HB	1:F:702:GLN:HB2	2.03	0.41
1:C:381:LEU:HD23	1:C:381:LEU:HA	1.90	0.41
1:C:421:VAL:CG2	1:C:422:PRO:HD2	2.50	0.41
1:C:512:HIS:CE1	1:C:515:GLY:HA2	2.56	0.41
1:E:253:TYR:HB2	1:E:281:PRO:O	2.21	0.41
1:E:484:PRO:HD2	1:E:609:TRP:CE3	2.56	0.41
1:E:512:HIS:CE1	1:E:515:GLY:HA2	2.56	0.41
1:F:340:THR:HB	1:R:322:GLN:CB	2.50	0.41
1:F:571:THR:HG22	1:F:608:VAL:O	2.20	0.41
1:F:659:ASP:N	1:F:659:ASP:OD1	2.54	0.41
1:H:253:TYR:HB2	1:H:281:PRO:O	2.21	0.41
1:J:512:HIS:CE1	1:J:515:GLY:HA2	2.56	0.41
1:J:571:THR:HG22	1:J:608:VAL:O	2.20	0.41
1:K:290:PHE:O	1:K:293:HIS:N	2.47	0.41
1:K:526:MET:HE1	1:K:575:ALA:HA	2.14	0.41
1:L:382:THR:HG21	1:L:394:SER:N	2.35	0.41
1:L:700:GLU:HB2	1:L:702:GLN:HE21	1.85	0.41
1:M:256:HIS:CD2	1:M:655:PRO:HB3	2.55	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:264:GLY:HA2	1:N:387:SER:HB3	2.01	0.41
1:N:702:GLN:HB2	1:O:704:THR:HB	2.02	0.41
1:P:256:HIS:CD2	1:P:655:PRO:HB3	2.55	0.41
1:P:328:GLN:HE22	1:P:333:LYS:CG	2.30	0.41
1:P:700:GLU:HB2	1:P:702:GLN:HE21	1.85	0.41
1:Q:328:GLN:HE22	1:Q:333:LYS:CG	2.30	0.41
1:Q:381:LEU:HA	1:Q:381:LEU:HD23	1.90	0.41
1:F:490:ARG:CZ	1:Q:586:LEU:HD21	2.50	0.41
1:Q:484:PRO:HD2	1:Q:609:TRP:CE3	2.55	0.41
1:Q:702:GLN:HB2	1:X:704:THR:HB	108.13	0.41
1:Q:704:THR:HB	1:R:702:GLN:HB2	2.03	0.41
1:R:659:ASP:OD1	1:R:659:ASP:N	2.54	0.41
1:S:253:TYR:HB2	1:S:281:PRO:O	2.21	0.41
1:S:609:TRP:C	1:S:609:TRP:CD1	2.93	0.41
1:T:312:LYS:HA	1:T:312:LYS:HD2	1.90	0.41
1:T:398:LEU:C	1:T:400:TYR:H	2.24	0.41
1:T:659:ASP:N	1:T:659:ASP:OD1	2.54	0.41
1:U:253:TYR:HB2	1:U:281:PRO:O	2.21	0.41
1:E:340:THR:HB	1:U:322:GLN:CB	156.34	0.41
1:U:398:LEU:C	1:U:400:TYR:H	2.24	0.41
1:V:253:TYR:HB2	1:V:281:PRO:O	2.21	0.41
1:V:256:HIS:CD2	1:V:655:PRO:HB3	2.55	0.41
1:V:382:THR:HG21	1:V:394:SER:N	2.35	0.41
1:V:571:THR:HG22	1:V:608:VAL:O	2.20	0.41
1:W:398:LEU:C	1:W:400:TYR:H	2.24	0.41
1:W:512:HIS:CE1	1:W:515:GLY:HA2	2.56	0.41
1:F:322:GLN:HB3	1:X:340:THR:HB	113.62	0.41
1:X:342:THR:HG22	1:X:407:ARG:HA	2.02	0.41
1:Y:382:THR:HG21	1:Y:394:SER:N	2.36	0.41
1:Y:571:THR:HG22	1:Y:608:VAL:O	2.20	0.41
1:Z:253:TYR:HB2	1:Z:281:PRO:O	2.21	0.41
1:F:340:THR:HB	1:Z:322:GLN:CB	114.14	0.41
1:1:254:ASN:C	1:1:256:HIS:N	2.71	0.41
1:2:253:TYR:HB2	1:2:281:PRO:O	2.21	0.41
1:2:421:VAL:CG2	1:2:422:PRO:HD2	2.50	0.41
1:3:450:ARG:HG2	1:3:452:GLN:H	1.85	0.41
1:4:264:GLY:HA2	1:4:387:SER:HB3	2.01	0.41
1:6:251:PRO:HG3	1:6:374:MET:CE	2.50	0.41
1:5:586:LEU:HD21	1:6:490:ARG:CZ	2.50	0.41
1:6:511:TYR:HD2	1:6:520:VAL:HG22	1.85	0.41
1:6:609:TRP:C	1:6:609:TRP:CD1	2.93	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:7:220:ASP:OD1	1:7:220:ASP:N	2.50	0.41
1:8:253:TYR:HB2	1:8:281:PRO:O	2.21	0.41
1:8:264:GLY:HA2	1:8:387:SER:HB3	2.01	0.41
1:8:511:TYR:HD2	1:8:520:VAL:HG22	1.85	0.41
1:A:324:LYS:HE3	1:Z:656:VAL:HG11	115.90	0.41
1:C:700:GLU:HB2	1:C:702:GLN:HE21	1.85	0.41
1:D:421:VAL:CG2	1:D:422:PRO:HD2	2.50	0.41
1:D:527:ALA:O	1:D:575:ALA:N	2.45	0.41
1:E:586:LEU:HD21	1:Q:490:ARG:CZ	2.51	0.41
1:F:324:LYS:HE3	1:G:656:VAL:HG11	2.02	0.41
1:F:421:VAL:CG2	1:F:422:PRO:HD2	2.50	0.41
1:G:340:THR:HB	1:K:322:GLN:CB	160.11	0.41
1:F:586:LEU:HD21	1:H:490:ARG:CZ	148.76	0.41
1:H:512:HIS:CE1	1:H:515:GLY:HA2	2.56	0.41
1:I:568:ILE:HD12	1:I:572:ASN:HD22	1.84	0.41
1:I:609:TRP:C	1:I:609:TRP:CD1	2.93	0.41
1:I:429:HIS:HD2	1:I:610:GLN:OE1	1.94	0.41
1:J:256:HIS:CD2	1:J:655:PRO:HB3	2.55	0.41
1:J:659:ASP:N	1:J:659:ASP:OD1	2.54	0.41
1:K:232:ASP:HB3	1:L:402:PRO:CG	2.46	0.41
1:K:253:TYR:HB2	1:K:281:PRO:O	2.21	0.41
1:K:659:ASP:OD1	1:K:659:ASP:N	2.54	0.41
1:L:253:TYR:HB2	1:L:281:PRO:O	2.21	0.41
1:L:512:HIS:CE1	1:L:515:GLY:HA2	2.56	0.41
1:M:253:TYR:HB2	1:M:281:PRO:O	2.21	0.41
1:M:586:LEU:HD21	1:N:490:ARG:CZ	113.44	0.41
1:O:659:ASP:N	1:O:659:ASP:OD1	2.54	0.41
1:P:659:ASP:N	1:P:659:ASP:OD1	2.54	0.41
1:Q:571:THR:HG22	1:Q:608:VAL:O	2.20	0.41
1:R:312:LYS:HA	1:R:312:LYS:HD2	1.90	0.41
1:R:251:PRO:HG3	1:R:374:MET:CE	2.50	0.41
1:S:382:THR:HG21	1:S:394:SER:N	2.36	0.41
1:S:512:HIS:CE1	1:S:515:GLY:HA2	2.56	0.41
1:S:585:ASN:OD1	1:S:594:ILE:N	2.45	0.41
1:S:586:LEU:HD21	1:U:490:ARG:CZ	2.50	0.41
1:I:322:GLN:HB3	1:T:340:THR:HB	173.60	0.41
1:T:571:THR:HG22	1:T:608:VAL:O	2.20	0.41
1:U:290:PHE:HE2	1:U:614:VAL:HB	1.84	0.41
1:V:340:THR:HB	1:1:322:GLN:CB	162.98	0.41
1:U:586:LEU:HD21	1:V:490:ARG:CZ	82.06	0.41
1:X:398:LEU:C	1:X:400:TYR:H	2.24	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:V:490:ARG:CZ	1:X:586:LEU:HD21	2.50	0.41
1:Y:659:ASP:N	1:Y:659:ASP:OD1	2.54	0.41
1:1:421:VAL:CG2	1:1:422:PRO:HD2	2.50	0.41
1:1:571:THR:HG22	1:1:608:VAL:O	2.20	0.41
1:3:253:TYR:HB2	1:3:281:PRO:O	2.21	0.41
1:4:571:THR:HG22	1:4:608:VAL:O	2.20	0.41
1:5:290:PHE:O	1:5:293:HIS:N	2.47	0.41
1:5:340:THR:HB	1:8:322:GLN:HB3	2.01	0.41
1:5:398:LEU:C	1:5:400:TYR:H	2.24	0.41
1:6:290:PHE:HE2	1:6:614:VAL:HB	1.84	0.41
1:7:251:PRO:HG3	1:7:374:MET:CE	2.50	0.41
1:7:450:ARG:HG2	1:7:452:GLN:H	1.85	0.41
1:5:490:ARG:CZ	1:7:586:LEU:HD21	2.51	0.41
1:8:421:VAL:CG2	1:8:422:PRO:HD2	2.50	0.41
1:A:512:HIS:CE1	1:A:515:GLY:HA2	2.56	0.41
1:C:290:PHE:HE2	1:C:614:VAL:HB	1.84	0.41
1:D:253:TYR:HB2	1:D:281:PRO:O	2.21	0.41
1:D:340:THR:HB	1:S:322:GLN:HB3	100.83	0.41
1:D:659:ASP:N	1:D:659:ASP:OD1	2.54	0.41
1:E:450:ARG:HG2	1:E:452:GLN:H	1.85	0.41
1:F:253:TYR:HB2	1:F:281:PRO:O	2.21	0.41
1:F:512:HIS:CE1	1:F:515:GLY:HA2	2.56	0.41
1:G:609:TRP:CD1	1:G:609:TRP:C	2.93	0.41
1:G:700:GLU:HB2	1:G:702:GLN:HE21	1.85	0.41
1:H:344:GLN:HG2	1:H:405:MET:HG2	2.03	0.41
1:H:700:GLU:HB2	1:H:702:GLN:HE21	1.85	0.41
1:I:328:GLN:HE22	1:I:333:LYS:CG	2.30	0.41
1:I:398:LEU:C	1:I:400:TYR:H	2.24	0.41
1:J:344:GLN:HG2	1:J:405:MET:HG2	2.03	0.41
1:K:700:GLU:HB2	1:K:702:GLN:HE21	1.85	0.41
1:L:659:ASP:OD1	1:L:659:ASP:N	2.54	0.41
1:N:659:ASP:N	1:N:659:ASP:OD1	2.54	0.41
1:O:253:TYR:HB2	1:O:281:PRO:O	2.21	0.41
1:O:512:HIS:CE1	1:O:515:GLY:HA2	2.56	0.41
1:P:253:TYR:HB2	1:P:281:PRO:O	2.21	0.41
1:R:571:THR:HG22	1:R:608:VAL:O	2.20	0.41
1:S:344:GLN:HG2	1:S:405:MET:HG2	2.03	0.41
1:S:421:VAL:CG2	1:S:422:PRO:HD2	2.50	0.41
1:S:290:PHE:HE2	1:S:614:VAL:HB	1.84	0.41
1:T:322:GLN:CB	1:U:340:THR:HB	2.50	0.41
1:T:421:VAL:CG2	1:T:422:PRO:HD2	2.50	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:U:659:ASP:N	1:U:659:ASP:OD1	2.54	0.41
1:V:659:ASP:N	1:V:659:ASP:OD1	2.54	0.41
1:U:702:GLN:HB2	1:V:704:THR:HB	2.02	0.41
1:W:484:PRO:HD2	1:W:609:TRP:CE3	2.55	0.41
1:W:290:PHE:HE2	1:W:614:VAL:HB	1.84	0.41
1:W:659:ASP:N	1:W:659:ASP:OD1	2.54	0.41
1:F:324:LYS:HE3	1:X:656:VAL:HG11	119.46	0.41
1:Y:344:GLN:HG2	1:Y:405:MET:HG2	2.03	0.41
1:Y:398:LEU:C	1:Y:400:TYR:H	2.24	0.41
1:Y:450:ARG:HG2	1:Y:452:GLN:H	1.85	0.41
1:Z:659:ASP:OD1	1:Z:659:ASP:N	2.54	0.41
1:U:322:GLN:HB3	1:2:340:THR:HB	167.89	0.41
1:3:312:LYS:HD2	1:3:312:LYS:HA	1.90	0.41
1:3:342:THR:HG22	1:3:407:ARG:HA	2.02	0.41
1:3:421:VAL:CG2	1:3:422:PRO:HD2	2.50	0.41
1:Z:586:LEU:HD21	1:4:490:ARG:CZ	2.50	0.41
1:4:659:ASP:N	1:4:659:ASP:OD1	2.54	0.41
1:U:340:THR:HB	1:5:322:GLN:HB3	176.70	0.41
1:5:421:VAL:CG2	1:5:422:PRO:HD2	2.50	0.41
1:7:398:LEU:C	1:7:400:TYR:H	2.24	0.41
1:7:512:HIS:CE1	1:7:515:GLY:HA2	2.56	0.41
1:8:512:HIS:CE1	1:8:515:GLY:HA2	2.56	0.41
1:8:659:ASP:N	1:8:659:ASP:OD1	2.54	0.41
1:A:381:LEU:HD23	1:A:381:LEU:HA	1.90	0.41
1:C:253:TYR:HB2	1:C:281:PRO:O	2.21	0.41
1:D:398:LEU:C	1:D:400:TYR:H	2.24	0.41
1:E:398:LEU:C	1:E:400:TYR:H	2.24	0.41
1:E:659:ASP:N	1:E:659:ASP:OD1	2.54	0.41
1:G:322:GLN:HB3	1:1:340:THR:HB	165.71	0.41
1:G:398:LEU:C	1:G:400:TYR:H	2.24	0.41
1:G:450:ARG:HG2	1:G:452:GLN:H	1.85	0.41
1:G:512:HIS:CE1	1:G:515:GLY:HA2	2.56	0.41
1:G:527:ALA:O	1:G:575:ALA:N	2.45	0.41
1:H:290:PHE:HE2	1:H:614:VAL:HB	1.84	0.41
1:H:398:LEU:C	1:H:400:TYR:H	2.24	0.41
1:H:659:ASP:OD1	1:H:659:ASP:N	2.54	0.41
1:I:251:PRO:HG3	1:I:374:MET:CE	2.50	0.41
1:I:342:THR:HG22	1:I:407:ARG:HA	2.02	0.41
1:I:512:HIS:CE1	1:I:515:GLY:HA2	2.56	0.41
1:I:700:GLU:HB2	1:I:702:GLN:HE21	1.85	0.41
1:J:253:TYR:HB2	1:J:281:PRO:O	2.21	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:402:PRO:HG3	1:W:232:ASP:CB	154.46	0.41
1:K:512:HIS:CE1	1:K:515:GLY:HA2	2.56	0.41
1:D:736:ARG:NH2	1:L:626:HIS:CD2	110.20	0.41
1:M:344:GLN:HG2	1:M:405:MET:HG2	2.03	0.41
1:M:656:VAL:HG11	1:N:324:LYS:HE3	27.11	0.41
1:P:398:LEU:C	1:P:400:TYR:H	2.24	0.41
1:Q:322:GLN:HB3	1:S:340:THR:HB	2.01	0.41
1:Q:659:ASP:OD1	1:Q:659:ASP:N	2.54	0.41
1:R:344:GLN:HG2	1:R:405:MET:HG2	2.03	0.41
1:R:512:HIS:CE1	1:R:515:GLY:HA2	2.56	0.41
1:R:656:VAL:HG11	1:X:324:LYS:HE3	93.37	0.41
1:T:344:GLN:HG2	1:T:405:MET:HG2	2.03	0.41
1:T:609:TRP:C	1:T:609:TRP:CD1	2.93	0.41
1:U:512:HIS:CE1	1:U:515:GLY:HA2	2.56	0.41
1:V:344:GLN:HG2	1:V:405:MET:HG2	2.03	0.41
1:V:398:LEU:C	1:V:400:TYR:H	2.24	0.41
1:V:450:ARG:HG2	1:V:452:GLN:H	1.85	0.41
1:V:609:TRP:CD1	1:V:609:TRP:C	2.94	0.41
1:W:438:ASN:HB2	1:X:356:VAL:HG21	47.34	0.41
1:Q:322:GLN:CB	1:Y:340:THR:HB	157.69	0.41
1:Y:381:LEU:HD23	1:Y:381:LEU:HA	1.90	0.41
1:2:322:GLN:CB	1:3:340:THR:HB	2.50	0.41
1:2:398:LEU:C	1:2:400:TYR:H	2.24	0.41
1:2:512:HIS:CE1	1:2:515:GLY:HA2	2.56	0.41
1:2:659:ASP:N	1:2:659:ASP:OD1	2.54	0.41
1:Y:322:GLN:CB	1:4:340:THR:HB	2.51	0.41
1:5:253:TYR:HB2	1:5:281:PRO:O	2.21	0.41
1:5:512:HIS:CE1	1:5:515:GLY:HA2	2.56	0.41
1:6:512:HIS:CE1	1:6:515:GLY:HA2	2.56	0.41
1:7:254:ASN:C	1:7:256:HIS:N	2.71	0.41
1:8:571:THR:HG22	1:8:608:VAL:O	2.20	0.41
1:A:253:TYR:HB2	1:A:281:PRO:O	2.21	0.41
1:B:253:TYR:HB2	1:B:281:PRO:O	2.21	0.41
1:B:322:GLN:CB	1:O:340:THR:HB	123.47	0.41
1:A:340:THR:HB	1:B:322:GLN:HB3	2.02	0.41
1:B:452:GLN:HG3	1:B:459:GLY:O	2.21	0.41
1:C:251:PRO:HG3	1:C:374:MET:CE	2.50	0.41
1:F:256:HIS:CD2	1:F:655:PRO:HB3	2.55	0.41
1:H:609:TRP:NE1	1:W:629:GLY:CA	2.58	0.41
1:G:704:THR:HB	1:H:702:GLN:HB2	2.03	0.41
1:I:344:GLN:HG2	1:I:405:MET:HG2	2.03	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:700:GLU:HB2	1:J:702:GLN:HE21	1.85	0.41
1:K:340:THR:HB	1:W:322:GLN:CB	170.05	0.41
1:K:382:THR:HG21	1:K:394:SER:N	2.35	0.41
1:K:609:TRP:CD1	1:K:609:TRP:C	2.93	0.41
1:L:452:GLN:HG3	1:L:459:GLY:O	2.21	0.41
1:M:398:LEU:C	1:M:400:TYR:H	2.24	0.41
1:M:512:HIS:CE1	1:M:515:GLY:HA2	2.56	0.41
1:N:253:TYR:HB2	1:N:281:PRO:O	2.21	0.41
1:Q:253:TYR:HB2	1:Q:281:PRO:O	2.21	0.41
1:Q:512:HIS:CE1	1:Q:515:GLY:HA2	2.56	0.41
1:T:253:TYR:HB2	1:T:281:PRO:O	2.21	0.41
1:T:322:GLN:CB	1:6:340:THR:HB	169.60	0.41
1:T:490:ARG:CZ	1:V:586:LEU:HD21	134.46	0.41
1:T:512:HIS:CE1	1:T:515:GLY:HA2	2.56	0.41
1:T:324:LYS:HE3	1:U:656:VAL:HG11	2.02	0.41
1:V:626:HIS:CD2	1:X:736:ARG:NH2	2.79	0.41
1:V:656:VAL:HG11	1:1:324:LYS:HE3	172.46	0.41
1:W:381:LEU:HA	1:W:381:LEU:HD23	1.90	0.41
1:W:526:MET:HE1	1:W:575:ALA:HA	2.03	0.41
1:Z:398:LEU:C	1:Z:400:TYR:H	2.24	0.41
1:Z:452:GLN:HG3	1:Z:459:GLY:O	2.21	0.41
1:Z:626:HIS:CD2	1:2:736:ARG:NH2	66.50	0.41
1:Z:656:VAL:HG11	1:4:324:LYS:HE3	101.39	0.41
1:1:253:TYR:HB2	1:1:281:PRO:O	2.21	0.41
1:1:512:HIS:CE1	1:1:515:GLY:HA2	2.56	0.41
1:2:324:LYS:HE3	1:3:656:VAL:HG11	2.02	0.41
1:4:253:TYR:HB2	1:4:281:PRO:O	2.21	0.41
1:4:398:LEU:C	1:4:400:TYR:H	2.24	0.41
1:4:256:HIS:CD2	1:4:655:PRO:HB3	2.55	0.41
1:U:656:VAL:HG11	1:5:324:LYS:HE3	188.86	0.41
1:5:290:PHE:HE2	1:5:614:VAL:HB	1.84	0.41
1:6:344:GLN:HG2	1:6:405:MET:HG2	2.03	0.41
1:7:342:THR:HG22	1:7:407:ARG:HA	2.02	0.41
1:7:609:TRP:CD1	1:7:609:TRP:C	2.94	0.41
1:A:249:ALA:O	1:A:251:PRO:HD3	2.21	0.41
1:A:398:LEU:C	1:A:400:TYR:H	2.24	0.41
1:C:344:GLN:HG2	1:C:405:MET:HG2	2.03	0.41
1:D:324:LYS:HE3	1:O:656:VAL:HG11	115.70	0.41
1:D:452:GLN:HG3	1:D:459:GLY:O	2.21	0.41
1:D:512:HIS:CE1	1:D:515:GLY:HA2	2.56	0.41
1:D:609:TRP:C	1:D:609:TRP:CD1	2.94	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:344:GLN:HG2	1:F:405:MET:HG2	2.03	0.41
1:F:656:VAL:HG11	1:Z:324:LYS:HE3	121.34	0.41
1:H:382:THR:HG21	1:H:394:SER:N	2.36	0.41
1:K:344:GLN:HG2	1:K:405:MET:HG2	2.03	0.41
1:K:342:THR:HG22	1:K:407:ARG:HA	2.02	0.41
1:K:452:GLN:HG3	1:K:459:GLY:O	2.21	0.41
1:J:586:LEU:HD21	1:K:490:ARG:CZ	82.07	0.41
1:L:381:LEU:HD23	1:L:381:LEU:HA	1.90	0.41
1:L:656:VAL:HG11	1:N:324:LYS:HE3	128.70	0.41
1:M:312:LYS:HD2	1:M:312:LYS:HA	1.90	0.41
1:M:659:ASP:OD1	1:M:659:ASP:N	2.54	0.41
1:N:249:ALA:O	1:N:251:PRO:HD3	2.21	0.41
1:N:340:THR:HB	1:R:322:GLN:CB	160.11	0.41
1:N:398:LEU:C	1:N:400:TYR:H	2.24	0.41
1:P:512:HIS:CE1	1:P:515:GLY:HA2	2.56	0.41
1:C:490:ARG:CZ	1:P:586:LEU:HD21	84.82	0.41
1:P:704:THR:HB	1:S:702:GLN:HB2	106.17	0.41
1:Q:344:GLN:HG2	1:Q:405:MET:HG2	2.03	0.41
1:R:609:TRP:NE1	1:S:629:GLY:CA	2.58	0.41
1:S:700:GLU:HB2	1:S:702:GLN:HE21	1.85	0.41
1:T:324:LYS:HE3	1:6:656:VAL:HG11	181.75	0.41
1:V:322:GLN:CB	1:W:340:THR:HB	23.19	0.41
1:V:381:LEU:HD23	1:V:381:LEU:HA	1.90	0.41
1:V:656:VAL:HG11	1:W:324:LYS:HE3	2.03	0.41
1:W:344:GLN:HG2	1:W:405:MET:HG2	2.03	0.41
1:H:736:ARG:NH2	1:W:626:HIS:CD2	2.79	0.41
1:V:324:LYS:HE3	1:W:656:VAL:HG11	27.11	0.41
1:X:571:THR:HG22	1:X:608:VAL:O	2.20	0.41
1:Y:251:PRO:HG3	1:Y:374:MET:CE	2.50	0.41
1:Y:512:HIS:CE1	1:Y:515:GLY:HA2	2.56	0.41
1:Z:512:HIS:CE1	1:Z:515:GLY:HA2	2.56	0.41
1:1:450:ARG:HG2	1:1:452:GLN:H	1.85	0.41
1:1:609:TRP:C	1:1:609:TRP:CD1	2.93	0.41
1:Z:736:ARG:NH2	1:1:626:HIS:CD2	83.86	0.41
1:2:609:TRP:C	1:2:609:TRP:CD1	2.93	0.41
1:4:344:GLN:HG2	1:4:405:MET:HG2	2.03	0.41
1:3:490:ARG:CZ	1:4:586:LEU:HD21	2.51	0.41
1:6:256:HIS:CD2	1:6:655:PRO:HB3	2.55	0.41
1:6:319:PHE:CE1	1:6:680:GLN:HB2	2.55	0.41
1:A:702:GLN:HB2	1:F:704:THR:HB	2.02	0.41
1:B:270:THR:HG23	1:B:272:ASP:H	1.86	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:340:THR:HB	1:B:322:GLN:CB	2.50	0.41
1:B:609:TRP:C	1:B:609:TRP:CD1	2.93	0.41
1:D:258:TYR:OH	1:D:399:GLU:OE1	2.22	0.41
1:F:656:VAL:HG11	1:R:324:LYS:HE3	2.03	0.41
1:G:253:TYR:HB2	1:G:281:PRO:O	2.21	0.41
1:H:586:LEU:HD21	1:W:490:ARG:CZ	2.51	0.41
1:H:626:HIS:CD2	1:Y:736:ARG:NH2	2.79	0.41
1:I:485:CYS:HB3	1:I:579:TYR:HB2	2.03	0.41
1:J:249:ALA:O	1:J:251:PRO:HD3	2.21	0.41
1:B:586:LEU:HD21	1:J:490:ARG:CZ	2.50	0.41
1:K:258:TYR:OH	1:K:399:GLU:OE1	2.22	0.41
1:M:249:ALA:O	1:M:251:PRO:HD3	2.21	0.41
1:N:344:GLN:HG2	1:N:405:MET:HG2	2.03	0.41
1:N:512:HIS:CE1	1:N:515:GLY:HA2	2.56	0.41
1:N:586:LEU:HD21	1:O:490:ARG:CZ	82.07	0.41
1:N:700:GLU:HB2	1:N:702:GLN:HE21	1.85	0.41
1:D:322:GLN:CB	1:O:340:THR:HB	106.06	0.41
1:P:340:THR:HB	1:6:322:GLN:CB	166.65	0.41
1:P:355:TYR:CZ	1:P:357:LEU:HB2	2.56	0.41
1:P:452:GLN:HG3	1:P:459:GLY:O	2.21	0.41
1:Q:249:ALA:O	1:Q:251:PRO:HD3	2.21	0.41
1:Q:290:PHE:HE2	1:Q:614:VAL:HB	1.84	0.41
1:R:490:ARG:CZ	1:U:586:LEU:HD21	2.51	0.41
1:R:586:LEU:HD21	1:S:490:ARG:CZ	2.50	0.41
1:Q:324:LYS:HE3	1:S:656:VAL:HG11	2.03	0.41
1:S:659:ASP:OD1	1:S:659:ASP:N	2.54	0.41
1:L:586:LEU:HD21	1:T:490:ARG:CZ	230.09	0.41
1:V:249:ALA:O	1:V:251:PRO:HD3	2.21	0.41
1:V:270:THR:HG23	1:V:272:ASP:H	1.86	0.41
1:W:249:ALA:O	1:W:251:PRO:HD3	2.21	0.41
1:W:702:GLN:HB2	1:X:704:THR:HB	2.02	0.41
1:X:253:TYR:HB2	1:X:281:PRO:O	2.21	0.41
1:X:344:GLN:HG2	1:X:405:MET:HG2	2.03	0.41
1:Y:270:THR:HG23	1:Y:272:ASP:H	1.86	0.41
1:Y:484:PRO:HD2	1:Y:609:TRP:CE3	2.55	0.41
1:W:499:ASN:ND2	1:Y:592:GLY:HA2	33.53	0.41
1:Z:382:THR:HG21	1:Z:394:SER:N	2.36	0.41
1:Z:586:LEU:HD21	1:1:490:ARG:CZ	85.93	0.41
1:1:659:ASP:OD1	1:1:659:ASP:N	2.54	0.41
1:U:324:LYS:HE3	1:2:656:VAL:HG11	176.68	0.41
1:3:324:LYS:HE3	1:8:656:VAL:HG11	2.03	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:3:512:HIS:CE1	1:3:515:GLY:HA2	2.56	0.41
1:5:382:THR:HG21	1:5:394:SER:N	2.35	0.41
1:6:249:ALA:O	1:6:251:PRO:HD3	2.21	0.41
1:6:253:TYR:HB2	1:6:281:PRO:O	2.21	0.41
1:6:421:VAL:CG2	1:6:422:PRO:HD2	2.50	0.41
1:7:452:GLN:HG3	1:7:459:GLY:O	2.21	0.41
1:8:355:TYR:CZ	1:8:357:LEU:HB2	2.56	0.41
1:8:319:PHE:CE1	1:8:680:GLN:HB2	2.55	0.41
1:A:270:THR:HG23	1:A:272:ASP:H	1.86	0.41
1:A:452:GLN:HG3	1:A:459:GLY:O	2.21	0.41
1:A:484:PRO:HD2	1:A:609:TRP:HE3	1.86	0.41
1:B:586:LEU:HD21	1:M:490:ARG:CZ	114.11	0.41
1:B:579:TYR:OH	1:B:607:MET:HE2	2.21	0.41
1:B:704:THR:HB	1:C:702:GLN:HB2	67.47	0.41
1:E:249:ALA:O	1:E:251:PRO:HD3	2.21	0.41
1:E:344:GLN:HG2	1:E:405:MET:HG2	2.03	0.41
1:E:381:LEU:HD23	1:E:381:LEU:HA	1.90	0.41
1:E:715:PHE:CZ	1:E:729:ILE:HD11	2.56	0.41
1:F:249:ALA:O	1:F:251:PRO:HD3	2.21	0.41
1:F:322:GLN:CB	1:G:340:THR:HB	2.50	0.41
1:F:450:ARG:HG2	1:F:452:GLN:H	1.85	0.41
1:G:452:GLN:HG3	1:G:459:GLY:O	2.21	0.41
1:I:322:GLN:CB	1:T:340:THR:HB	174.01	0.41
1:G:586:LEU:HD21	1:I:490:ARG:CZ	2.50	0.41
1:J:382:THR:HG21	1:J:394:SER:N	2.35	0.41
1:J:398:LEU:C	1:J:400:TYR:H	2.24	0.41
1:J:656:VAL:HG11	1:L:324:LYS:HE3	101.39	0.41
1:N:586:LEU:HD21	1:P:490:ARG:CZ	2.50	0.41
1:O:270:THR:HG23	1:O:272:ASP:H	1.86	0.41
1:O:452:GLN:HG3	1:O:459:GLY:O	2.21	0.41
1:O:485:CYS:HB3	1:O:579:TYR:HB2	2.03	0.41
1:P:609:TRP:C	1:P:609:TRP:CD1	2.93	0.41
1:Q:490:ARG:CZ	1:S:586:LEU:HD21	81.94	0.41
1:F:340:THR:HB	1:R:322:GLN:HB3	2.01	0.41
1:R:299:TRP:CG	1:R:616:LEU:HD13	2.56	0.41
1:S:526:MET:HE1	1:S:575:ALA:HA	2.14	0.41
1:T:249:ALA:O	1:T:251:PRO:HD3	2.21	0.41
1:T:299:TRP:CG	1:T:616:LEU:HD13	2.56	0.41
1:T:586:LEU:HD21	1:U:490:ARG:CZ	113.44	0.41
1:U:270:THR:HG23	1:U:272:ASP:H	1.86	0.41
1:V:452:GLN:HG3	1:V:459:GLY:O	2.21	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:W:715:PHE:CZ	1:W:729:ILE:HD11	2.56	0.41
1:X:700:GLU:HB2	1:X:702:GLN:HE21	1.85	0.41
1:Y:452:GLN:HG3	1:Y:459:GLY:O	2.21	0.41
1:Y:299:TRP:CG	1:Y:616:LEU:HD13	2.56	0.41
1:1:256:HIS:CD2	1:1:655:PRO:HB3	2.55	0.41
1:1:715:PHE:CZ	1:1:729:ILE:HD11	2.56	0.41
1:1:586:LEU:HD21	1:2:490:ARG:CZ	2.50	0.41
1:3:355:TYR:CZ	1:3:357:LEU:HB2	2.56	0.41
1:3:452:GLN:HG3	1:3:459:GLY:O	2.21	0.41
1:4:249:ALA:O	1:4:251:PRO:HD3	2.21	0.41
1:4:299:TRP:CG	1:4:616:LEU:HD13	2.56	0.41
1:4:527:ALA:O	1:4:575:ALA:N	2.45	0.41
1:4:700:GLU:HB2	1:4:702:GLN:HE21	1.85	0.41
1:5:700:GLU:HB2	1:5:702:GLN:HE21	1.85	0.41
1:6:450:ARG:HG2	1:6:452:GLN:H	1.85	0.41
1:6:452:GLN:HG3	1:6:459:GLY:O	2.21	0.41
1:7:249:ALA:O	1:7:251:PRO:HD3	2.21	0.41
1:7:344:GLN:HG2	1:7:405:MET:HG2	2.03	0.41
1:7:299:TRP:CG	1:7:616:LEU:HD13	2.56	0.41
1:8:381:LEU:HD23	1:8:381:LEU:HA	1.90	0.41
1:8:398:LEU:C	1:8:400:TYR:H	2.24	0.41
1:8:485:CYS:HB3	1:8:579:TYR:HB2	2.03	0.41
1:A:355:TYR:CZ	1:A:357:LEU:HB2	2.56	0.41
1:A:485:CYS:HB3	1:A:579:TYR:HB2	2.03	0.41
1:A:586:LEU:HD21	1:8:490:ARG:CZ	162.33	0.41
1:A:484:PRO:HD2	1:A:609:TRP:CE3	2.55	0.41
1:B:512:HIS:CE1	1:B:515:GLY:HA2	2.56	0.41
1:B:299:TRP:CG	1:B:616:LEU:HD13	2.56	0.41
1:B:704:THR:HB	1:I:702:GLN:HB2	2.02	0.41
1:C:299:TRP:CG	1:C:616:LEU:HD13	2.56	0.41
1:B:340:THR:HB	1:C:322:GLN:CB	2.50	0.41
1:C:485:CYS:HB3	1:C:579:TYR:HB2	2.03	0.41
1:D:299:TRP:CG	1:D:616:LEU:HD13	2.56	0.41
1:D:340:THR:HB	1:E:322:GLN:CB	2.50	0.41
1:D:656:VAL:HG11	1:S:324:LYS:HE3	105.61	0.41
1:E:452:GLN:HG3	1:E:459:GLY:O	2.21	0.41
1:E:490:ARG:CZ	1:F:586:LEU:HD21	2.50	0.41
1:E:299:TRP:CG	1:E:616:LEU:HD13	2.56	0.41
1:E:656:VAL:HG11	1:U:324:LYS:HE3	164.77	0.41
1:F:355:TYR:CZ	1:F:357:LEU:HB2	2.56	0.41
1:F:342:THR:HG22	1:F:407:ARG:HA	2.02	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:452:GLN:HG3	1:F:459:GLY:O	2.21	0.41
1:E:702:GLN:HB2	1:F:704:THR:HB	67.31	0.41
1:G:322:GLN:CB	1:1:340:THR:HB	166.65	0.41
1:G:485:CYS:HB3	1:G:579:TYR:HB2	2.03	0.41
1:G:702:GLN:HB2	1:Z:704:THR:HB	65.16	0.41
1:G:715:PHE:CZ	1:G:729:ILE:HD11	2.56	0.41
1:H:355:TYR:CZ	1:H:357:LEU:HB2	2.56	0.41
1:I:253:TYR:HB2	1:I:281:PRO:O	2.21	0.41
1:I:527:ALA:O	1:I:575:ALA:N	2.45	0.41
1:J:340:THR:HB	1:L:322:GLN:CB	95.27	0.41
1:J:450:ARG:HG2	1:J:452:GLN:H	1.85	0.41
1:K:299:TRP:CG	1:K:616:LEU:HD13	2.56	0.41
1:K:340:THR:HB	1:7:322:GLN:CB	2.50	0.41
1:K:355:TYR:CZ	1:K:357:LEU:HB2	2.56	0.41
1:L:299:TRP:CG	1:L:616:LEU:HD13	2.56	0.41
1:B:340:THR:HB	1:L:322:GLN:CB	83.07	0.41
1:L:344:GLN:HG2	1:L:405:MET:HG2	2.03	0.41
1:I:702:GLN:HB2	1:L:704:THR:HB	68.00	0.41
1:M:382:THR:HG21	1:M:394:SER:N	2.35	0.41
1:M:484:PRO:HD2	1:M:609:TRP:HE3	1.86	0.41
1:M:715:PHE:CZ	1:M:729:ILE:HD11	2.56	0.41
1:N:299:TRP:CG	1:N:616:LEU:HD13	2.56	0.41
1:N:452:GLN:HG3	1:N:459:GLY:O	2.21	0.41
1:N:609:TRP:C	1:N:609:TRP:CD1	2.93	0.41
1:N:715:PHE:CZ	1:N:729:ILE:HD11	2.56	0.41
1:O:324:LYS:HE3	1:P:656:VAL:HG11	2.03	0.41
1:O:355:TYR:CZ	1:O:357:LEU:HB2	2.56	0.41
1:O:484:PRO:HD2	1:O:609:TRP:HE3	1.86	0.41
1:P:485:CYS:HB3	1:P:579:TYR:HB2	2.03	0.41
1:P:715:PHE:CZ	1:P:729:ILE:HD11	2.56	0.41
1:Q:342:THR:HG22	1:Q:407:ARG:HA	2.02	0.41
1:Q:715:PHE:CZ	1:Q:729:ILE:HD11	2.56	0.41
1:R:249:ALA:O	1:R:251:PRO:HD3	2.21	0.41
1:Q:702:GLN:HB2	1:R:704:THR:HB	2.02	0.41
1:S:249:ALA:O	1:S:251:PRO:HD3	2.21	0.41
1:T:715:PHE:CZ	1:T:729:ILE:HD11	2.56	0.41
1:U:249:ALA:O	1:U:251:PRO:HD3	2.21	0.41
1:U:452:GLN:HG3	1:U:459:GLY:O	2.21	0.41
1:U:609:TRP:CD1	1:U:609:TRP:C	2.94	0.41
1:V:484:PRO:HD2	1:V:609:TRP:CE3	2.55	0.41
1:W:270:THR:HG23	1:W:272:ASP:H	1.86	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:W:429:HIS:CE1	1:X:627:THR:HG22	59.30	0.41
1:X:421:VAL:CG2	1:X:422:PRO:HD2	2.50	0.41
1:W:480:TRP:CZ2	1:X:624:ILE:HA	59.48	0.41
1:Y:249:ALA:O	1:Y:251:PRO:HD3	2.21	0.41
1:X:611:ASN:ND2	1:Y:628:ASP:HB3	47.65	0.41
1:Z:715:PHE:CZ	1:Z:729:ILE:HD11	2.56	0.41
1:1:230:HIS:HB3	1:1:232:ASP:OD1	2.22	0.40
1:1:249:ALA:O	1:1:251:PRO:HD3	2.21	0.40
1:1:344:GLN:HG2	1:1:405:MET:HG2	2.03	0.40
1:1:355:TYR:CZ	1:1:357:LEU:HB2	2.56	0.40
1:2:270:THR:HG23	1:2:272:ASP:H	1.86	0.40
1:2:299:TRP:CG	1:2:616:LEU:HD13	2.56	0.40
1:2:704:THR:HB	1:4:702:GLN:HB2	2.03	0.40
1:3:249:ALA:O	1:3:251:PRO:HD3	2.21	0.40
1:4:355:TYR:CZ	1:4:357:LEU:HB2	2.56	0.40
1:4:452:GLN:HG3	1:4:459:GLY:O	2.21	0.40
1:6:299:TRP:CG	1:6:616:LEU:HD13	2.57	0.40
1:T:322:GLN:HB3	1:6:340:THR:HB	169.22	0.40
1:6:342:THR:HG22	1:6:407:ARG:HA	2.02	0.40
1:6:586:LEU:HD21	1:7:490:ARG:CZ	2.50	0.40
1:8:230:HIS:HB3	1:8:232:ASP:OD1	2.21	0.40
1:8:342:THR:HG22	1:8:407:ARG:HA	2.02	0.40
1:8:609:TRP:CD1	1:8:609:TRP:C	2.94	0.40
1:A:659:ASP:OD1	1:A:659:ASP:N	2.54	0.40
1:A:715:PHE:CZ	1:A:729:ILE:HD11	2.56	0.40
1:D:230:HIS:HB3	1:D:232:ASP:OD1	2.22	0.40
1:D:656:VAL:HG11	1:E:324:LYS:HE3	2.03	0.40
1:D:702:GLN:HB2	1:M:704:THR:HB	2.03	0.40
1:D:704:THR:HB	1:N:702:GLN:HB2	67.31	0.40
1:F:299:TRP:CG	1:F:616:LEU:HD13	2.56	0.40
1:G:230:HIS:HB3	1:G:232:ASP:OD1	2.21	0.40
1:G:659:ASP:N	1:G:659:ASP:OD1	2.54	0.40
1:G:702:GLN:HB2	1:H:704:THR:HB	2.02	0.40
1:H:490:ARG:CZ	1:Y:586:LEU:HD21	2.50	0.40
1:I:299:TRP:CG	1:I:616:LEU:HD13	2.56	0.40
1:I:659:ASP:OD1	1:I:659:ASP:N	2.54	0.40
1:J:230:HIS:HB3	1:J:232:ASP:OD1	2.22	0.40
1:J:355:TYR:CZ	1:J:357:LEU:HB2	2.56	0.40
1:J:452:GLN:HG3	1:J:459:GLY:O	2.21	0.40
1:J:704:THR:HB	1:K:702:GLN:HB2	2.03	0.40
1:K:230:HIS:HB3	1:K:232:ASP:OD1	2.22	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:656:VAL:HG11	1:K:324:LYS:HE3	167.50	0.40
1:K:656:VAL:HG11	1:7:324:LYS:HE3	2.03	0.40
1:L:398:LEU:C	1:L:400:TYR:H	2.24	0.40
1:L:715:PHE:CZ	1:L:729:ILE:HD11	2.56	0.40
1:M:230:HIS:HB3	1:M:232:ASP:OD1	2.22	0.40
1:M:299:TRP:CG	1:M:616:LEU:HD13	2.56	0.40
1:M:355:TYR:CZ	1:M:357:LEU:HB2	2.56	0.40
1:N:230:HIS:HB3	1:N:232:ASP:OD1	2.21	0.40
1:N:355:TYR:CZ	1:N:357:LEU:HB2	2.56	0.40
1:N:485:CYS:HB3	1:N:579:TYR:HB2	2.03	0.40
1:N:527:ALA:O	1:N:575:ALA:N	2.45	0.40
1:O:249:ALA:O	1:O:251:PRO:HD3	2.21	0.40
1:P:230:HIS:HB3	1:P:232:ASP:OD1	2.21	0.40
1:Q:230:HIS:HB3	1:Q:232:ASP:OD1	2.21	0.40
1:Q:270:THR:HG23	1:Q:272:ASP:H	1.86	0.40
1:Q:382:THR:HG21	1:Q:394:SER:N	2.35	0.40
1:S:355:TYR:CZ	1:S:357:LEU:HB2	2.56	0.40
1:S:452:GLN:HG3	1:S:459:GLY:O	2.21	0.40
1:T:230:HIS:HB3	1:T:232:ASP:OD1	2.22	0.40
1:D:490:ARG:CZ	1:T:586:LEU:HD21	151.74	0.40
1:V:512:HIS:CE1	1:V:515:GLY:HA2	2.56	0.40
1:V:290:PHE:HE2	1:V:614:VAL:HB	1.84	0.40
1:W:355:TYR:CZ	1:W:357:LEU:HB2	2.56	0.40
1:W:600:SER:OG	1:Y:601:GLN:NE2	10.46	0.40
1:X:609:TRP:CD1	1:X:609:TRP:C	2.93	0.40
1:Y:230:HIS:HB3	1:Y:232:ASP:OD1	2.21	0.40
1:Y:329:ASN:O	1:Y:332:THR:OG1	2.30	0.40
1:Z:299:TRP:CG	1:Z:616:LEU:HD13	2.56	0.40
1:Z:312:LYS:HA	1:Z:312:LYS:HD2	1.90	0.40
1:Z:355:TYR:CZ	1:Z:357:LEU:HB2	2.56	0.40
1:Z:484:PRO:HD2	1:Z:609:TRP:HE3	1.86	0.40
1:Z:626:HIS:CD2	1:3:736:ARG:NH2	2.79	0.40
1:2:342:THR:HG22	1:2:407:ARG:HA	2.02	0.40
1:3:270:THR:HG23	1:3:272:ASP:H	1.86	0.40
1:4:485:CYS:HB3	1:4:579:TYR:HB2	2.03	0.40
1:4:484:PRO:HD2	1:4:609:TRP:HE3	1.86	0.40
1:5:230:HIS:HB3	1:5:232:ASP:OD1	2.21	0.40
1:5:342:THR:HG22	1:5:407:ARG:HA	2.02	0.40
1:6:270:THR:HG23	1:6:272:ASP:H	1.86	0.40
1:8:484:PRO:HD2	1:8:609:TRP:CE3	2.55	0.40
1:A:230:HIS:HB3	1:A:232:ASP:OD1	2.22	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:299:TRP:CG	1:A:616:LEU:HD13	2.56	0.40
1:B:485:CYS:HB3	1:B:579:TYR:HB2	2.03	0.40
1:B:700:GLU:HB2	1:B:702:GLN:HE21	1.85	0.40
1:C:270:THR:HG23	1:C:272:ASP:H	1.86	0.40
1:C:659:ASP:OD1	1:C:659:ASP:N	2.54	0.40
1:D:249:ALA:O	1:D:251:PRO:HD3	2.21	0.40
1:D:270:THR:HG23	1:D:272:ASP:H	1.86	0.40
1:D:342:THR:HG22	1:D:407:ARG:HA	2.02	0.40
1:D:715:PHE:CZ	1:D:729:ILE:HD11	2.56	0.40
1:G:484:PRO:HD2	1:G:609:TRP:CE3	2.55	0.40
1:G:299:TRP:CG	1:G:616:LEU:HD13	2.56	0.40
1:G:626:HIS:CD2	1:H:736:ARG:NH2	52.26	0.40
1:H:230:HIS:HB3	1:H:232:ASP:OD1	2.22	0.40
1:H:270:THR:HG23	1:H:272:ASP:H	1.86	0.40
1:H:452:GLN:HG3	1:H:459:GLY:O	2.21	0.40
1:J:586:LEU:HD21	1:L:490:ARG:CZ	2.50	0.40
1:K:249:ALA:O	1:K:251:PRO:HD3	2.21	0.40
1:K:270:THR:HG23	1:K:272:ASP:H	1.86	0.40
1:K:398:LEU:C	1:K:400:TYR:H	2.24	0.40
1:K:715:PHE:CZ	1:K:729:ILE:HD11	2.56	0.40
1:L:249:ALA:O	1:L:251:PRO:HD3	2.21	0.40
1:L:270:THR:HG23	1:L:272:ASP:H	1.86	0.40
1:M:452:GLN:HG3	1:M:459:GLY:O	2.21	0.40
1:C:490:ARG:CZ	1:M:586:LEU:HD21	2.50	0.40
1:N:382:THR:HG21	1:N:394:SER:N	2.36	0.40
1:O:299:TRP:CG	1:O:616:LEU:HD13	2.56	0.40
1:O:344:GLN:HG2	1:O:405:MET:HG2	2.03	0.40
1:C:736:ARG:NH2	1:O:626:HIS:CD2	134.49	0.40
1:P:312:LYS:HD2	1:P:312:LYS:HA	1.90	0.40
1:P:484:PRO:HD2	1:P:609:TRP:CE3	2.55	0.40
1:Q:355:TYR:CZ	1:Q:357:LEU:HB2	2.56	0.40
1:Q:485:CYS:HB3	1:Q:579:TYR:HB2	2.03	0.40
1:Q:626:HIS:CD2	1:S:736:ARG:NH2	82.71	0.40
1:R:253:TYR:HB2	1:R:281:PRO:O	2.21	0.40
1:S:485:CYS:HB3	1:S:579:TYR:HB2	2.03	0.40
1:R:736:ARG:NH2	1:S:626:HIS:CD2	2.79	0.40
1:P:702:GLN:HB2	1:S:704:THR:HB	107.28	0.40
1:T:355:TYR:CZ	1:T:357:LEU:HB2	2.56	0.40
1:T:704:THR:HB	1:5:702:GLN:HB2	203.80	0.40
1:U:299:TRP:CG	1:U:616:LEU:HD13	2.56	0.40
1:U:355:TYR:CZ	1:U:357:LEU:HB2	2.56	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:U:704:THR:HB	1:V:702:GLN:HB2	2.03	0.40
1:V:230:HIS:HB3	1:V:232:ASP:OD1	2.21	0.40
1:V:299:TRP:CG	1:V:616:LEU:HD13	2.56	0.40
1:V:485:CYS:HB3	1:V:579:TYR:HB2	2.03	0.40
1:X:299:TRP:CG	1:X:616:LEU:HD13	2.56	0.40
1:X:355:TYR:CZ	1:X:357:LEU:HB2	2.56	0.40
1:X:484:PRO:HD2	1:X:609:TRP:CE3	2.56	0.40
1:Y:253:TYR:HB2	1:Y:281:PRO:O	2.21	0.40
1:Y:312:LYS:HA	1:Y:312:LYS:HD2	1.90	0.40
1:Y:355:TYR:CZ	1:Y:357:LEU:HB2	2.56	0.40
1:W:586:LEU:HD21	1:Y:490:ARG:CZ	2.50	0.40
1:Z:249:ALA:O	1:Z:251:PRO:HD3	2.21	0.40
1:Z:484:PRO:HD2	1:Z:609:TRP:CE3	2.55	0.40
1:1:270:THR:HG23	1:1:272:ASP:H	1.86	0.40
1:1:381:LEU:HD23	1:1:381:LEU:HA	1.90	0.40
1:4:609:TRP:CD1	1:4:609:TRP:C	2.93	0.40
1:5:715:PHE:CZ	1:5:729:ILE:HD11	2.56	0.40
1:7:230:HIS:HB3	1:7:232:ASP:OD1	2.22	0.40
1:A:626:HIS:CD2	1:I:736:ARG:NH2	2.79	0.40
1:B:484:PRO:HD2	1:B:609:TRP:CE3	2.55	0.40
1:B:702:GLN:HB2	1:I:704:THR:HB	2.02	0.40
1:C:328:GLN:HE22	1:C:333:LYS:CG	2.30	0.40
1:B:702:GLN:HB2	1:C:704:THR:HB	64.57	0.40
1:C:715:PHE:CZ	1:C:729:ILE:HD11	2.56	0.40
1:E:270:THR:HG23	1:E:272:ASP:H	1.86	0.40
1:F:270:THR:HG23	1:F:272:ASP:H	1.86	0.40
1:F:715:PHE:CZ	1:F:729:ILE:HD11	2.56	0.40
1:G:270:THR:HG23	1:G:272:ASP:H	1.86	0.40
1:G:324:LYS:HE3	1:1:656:VAL:HG11	174.40	0.40
1:H:485:CYS:HB3	1:H:579:TYR:HB2	2.03	0.40
1:H:715:PHE:CZ	1:H:729:ILE:HD11	2.56	0.40
1:I:322:GLN:HB3	1:J:340:THR:HB	2.02	0.40
1:I:324:LYS:HE3	1:T:656:VAL:HG11	186.87	0.40
1:G:736:ARG:NH2	1:I:626:HIS:CD2	2.79	0.40
1:I:704:THR:HB	1:L:702:GLN:HB2	65.07	0.40
1:J:270:THR:HG23	1:J:272:ASP:H	1.86	0.40
1:L:485:CYS:HB3	1:L:579:TYR:HB2	2.03	0.40
1:L:484:PRO:HD2	1:L:609:TRP:CE3	2.55	0.40
1:N:270:THR:HG23	1:N:272:ASP:H	1.86	0.40
1:N:484:PRO:HD2	1:N:609:TRP:HE3	1.86	0.40
1:N:704:THR:HB	1:O:702:GLN:HB2	2.02	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Q:586:LEU:HD21	1:R:490:ARG:CZ	82.07	0.40
1:R:270:THR:HG23	1:R:272:ASP:H	1.86	0.40
1:R:355:TYR:CZ	1:R:357:LEU:HB2	2.56	0.40
1:R:526:MET:HE1	1:R:575:ALA:HA	2.11	0.40
1:M:702:GLN:HB2	1:R:704:THR:HB	126.47	0.40
1:R:715:PHE:CZ	1:R:729:ILE:HD11	2.56	0.40
1:S:270:THR:HG23	1:S:272:ASP:H	1.86	0.40
1:T:270:THR:HG23	1:T:272:ASP:H	1.86	0.40
1:T:340:THR:HB	1:Y:322:GLN:CB	118.19	0.40
1:U:344:GLN:HG2	1:U:405:MET:HG2	2.03	0.40
1:U:485:CYS:HB3	1:U:579:TYR:HB2	2.03	0.40
1:U:579:TYR:OH	1:U:607:MET:HE2	2.29	0.40
1:V:312:LYS:HA	1:V:312:LYS:HD2	1.90	0.40
1:W:230:HIS:HB3	1:W:232:ASP:OD1	2.22	0.40
1:X:452:GLN:HG3	1:X:459:GLY:O	2.21	0.40
1:W:392:ARG:NH2	1:Y:567:GLU:HG3	47.59	0.40
1:H:629:GLY:CA	1:Y:609:TRP:NE1	2.58	0.40
1:Z:344:GLN:HG2	1:Z:405:MET:HG2	2.03	0.40
1:1:299:TRP:CG	1:1:616:LEU:HD13	2.56	0.40
1:1:398:LEU:C	1:1:400:TYR:H	2.24	0.40
1:3:299:TRP:CG	1:3:616:LEU:HD13	2.56	0.40
1:4:382:THR:HG21	1:4:394:SER:N	2.36	0.40
1:4:512:HIS:CE1	1:4:515:GLY:HA2	2.56	0.40
1:7:270:THR:HG23	1:7:272:ASP:H	1.86	0.40
1:8:452:GLN:HG3	1:8:459:GLY:O	2.21	0.40
1:A:344:GLN:HG2	1:A:405:MET:HG2	2.03	0.40
1:A:526:MET:HE2	1:A:575:ALA:HA	2.04	0.40
1:A:704:THR:HB	1:3:702:GLN:HB2	151.20	0.40
1:B:527:ALA:O	1:B:575:ALA:N	2.45	0.40
1:B:626:HIS:CD2	1:L:736:ARG:NH2	2.79	0.40
1:C:230:HIS:HB3	1:C:232:ASP:OD1	2.21	0.40
1:C:322:GLN:HB3	1:M:340:THR:HB	95.31	0.40
1:C:626:HIS:CD2	1:P:736:ARG:NH2	56.73	0.40
1:C:656:VAL:HG11	1:D:324:LYS:HE3	2.03	0.40
1:D:355:TYR:CZ	1:D:357:LEU:HB2	2.56	0.40
1:E:230:HIS:HB3	1:E:232:ASP:OD1	2.22	0.40
1:E:626:HIS:CD2	1:F:736:ARG:NH2	2.79	0.40
1:G:249:ALA:O	1:G:251:PRO:HD3	2.21	0.40
1:G:704:THR:HB	1:Z:702:GLN:HB2	68.02	0.40
1:H:326:VAL:HG21	1:H:333:LYS:NZ	2.37	0.40
1:H:702:GLN:HB2	1:K:704:THR:HB	109.59	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:249:ALA:O	1:I:251:PRO:HD3	2.21	0.40
1:I:270:THR:HG23	1:I:272:ASP:H	1.86	0.40
1:I:322:GLN:CB	1:J:340:THR:HB	2.50	0.40
1:I:626:HIS:CD2	1:K:736:ARG:NH2	87.32	0.40
1:K:324:LYS:HE3	1:L:656:VAL:HG11	2.03	0.40
1:K:326:VAL:HG21	1:K:333:LYS:NZ	2.37	0.40
1:I:490:ARG:CZ	1:K:586:LEU:HD21	134.47	0.40
1:M:322:GLN:CB	1:S:340:THR:HB	110.51	0.40
1:P:249:ALA:O	1:P:251:PRO:HD3	2.21	0.40
1:Q:452:GLN:HG3	1:Q:459:GLY:O	2.21	0.40
1:R:230:HIS:HB3	1:R:232:ASP:OD1	2.21	0.40
1:S:579:TYR:OH	1:S:607:MET:HE2	2.21	0.40
1:U:715:PHE:CZ	1:U:729:ILE:HD11	2.56	0.40
1:R:656:VAL:HG11	1:V:324:LYS:HE3	2.03	0.40
1:W:253:TYR:HB2	1:W:281:PRO:O	2.21	0.40
1:V:322:GLN:HB3	1:W:340:THR:HB	23.24	0.40
1:W:485:CYS:HB3	1:W:579:TYR:HB2	2.03	0.40
1:Y:485:CYS:HB3	1:Y:579:TYR:HB2	2.03	0.40
1:Y:704:THR:HB	1:Z:702:GLN:HB2	2.03	0.40
1:Y:715:PHE:CZ	1:Y:729:ILE:HD11	2.56	0.40
1:Z:485:CYS:HB3	1:Z:579:TYR:HB2	2.03	0.40
1:2:355:TYR:CZ	1:2:357:LEU:HB2	2.56	0.40
1:3:485:CYS:HB3	1:3:579:TYR:HB2	2.03	0.40
1:4:715:PHE:CZ	1:4:729:ILE:HD11	2.56	0.40
1:5:452:GLN:HG3	1:5:459:GLY:O	2.21	0.40
1:5:299:TRP:CG	1:5:616:LEU:HD13	2.56	0.40
1:6:659:ASP:N	1:6:659:ASP:OD1	2.54	0.40
1:7:355:TYR:CZ	1:7:357:LEU:HB2	2.56	0.40
1:7:579:TYR:OH	1:7:607:MET:HE2	2.22	0.40
1:8:484:PRO:HD2	1:8:609:TRP:HE3	1.86	0.40
1:A:382:THR:HG21	1:A:394:SER:N	2.36	0.40
1:A:258:TYR:OH	1:A:399:GLU:OE1	2.22	0.40
1:B:344:GLN:HG2	1:B:405:MET:HG2	2.03	0.40
1:C:322:GLN:CB	1:M:340:THR:HB	95.27	0.40
1:C:452:GLN:HG3	1:C:459:GLY:O	2.21	0.40
1:C:484:PRO:HD2	1:C:609:TRP:CE3	2.55	0.40
1:D:579:TYR:OH	1:D:607:MET:HE2	2.28	0.40
1:D:402:PRO:CG	1:E:232:ASP:HB3	2.46	0.40
1:G:344:GLN:HG2	1:G:405:MET:HG2	2.03	0.40
1:G:490:ARG:CZ	1:H:586:LEU:HD21	82.07	0.40
1:I:484:PRO:HD2	1:I:609:TRP:CE3	2.55	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:715:PHE:CZ	1:I:729:ILE:HD11	2.56	0.40
1:J:715:PHE:CZ	1:J:729:ILE:HD11	2.56	0.40
1:L:230:HIS:HB3	1:L:232:ASP:OD1	2.22	0.40
1:M:270:THR:HG23	1:M:272:ASP:H	1.86	0.40
1:M:626:HIS:CD2	1:O:736:ARG:NH2	87.32	0.40
1:O:258:TYR:OH	1:O:399:GLU:OE1	2.22	0.40
1:O:702:GLN:HB2	1:6:704:THR:HB	150.20	0.40
1:P:344:GLN:HG2	1:P:405:MET:HG2	2.03	0.40
1:E:704:THR:HB	1:P:702:GLN:HB2	2.03	0.40
1:Q:299:TRP:CG	1:Q:616:LEU:HD13	2.56	0.40
1:E:736:ARG:NH2	1:Q:626:HIS:CD2	2.79	0.40
1:M:704:THR:HB	1:R:702:GLN:HB2	126.47	0.40
1:S:715:PHE:CZ	1:S:729:ILE:HD11	2.56	0.40
1:V:329:ASN:O	1:V:332:THR:OG1	2.31	0.40
1:V:715:PHE:CZ	1:V:729:ILE:HD11	2.56	0.40
1:W:244:SER:C	1:W:245:THR:HG1	2.25	0.40
1:W:299:TRP:CG	1:W:616:LEU:HD13	2.56	0.40
1:W:382:THR:HG21	1:W:394:SER:N	2.35	0.40
1:Z:270:THR:HG23	1:Z:272:ASP:H	1.86	0.40
1:H:340:THR:HB	1:Z:322:GLN:CB	2.51	0.40
1:Y:702:GLN:HB2	1:Z:704:THR:HB	2.03	0.40

There are no symmetry-related clashes.

## 5.3 Torsion angles [i](#)

### 5.3.1 Protein backbone [i](#)

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

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

Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	1	519/521 (100%)	500 (96%)	18 (4%)	1 (0%)	49	82
1	2	519/521 (100%)	500 (96%)	18 (4%)	1 (0%)	49	82
1	3	519/521 (100%)	500 (96%)	18 (4%)	1 (0%)	49	82
1	4	519/521 (100%)	500 (96%)	18 (4%)	1 (0%)	49	82

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	5	519/521 (100%)	500 (96%)	18 (4%)	1 (0%)	49	82
1	6	519/521 (100%)	500 (96%)	18 (4%)	1 (0%)	49	82
1	7	519/521 (100%)	500 (96%)	18 (4%)	1 (0%)	49	82
1	8	519/521 (100%)	500 (96%)	18 (4%)	1 (0%)	49	82
1	A	519/521 (100%)	500 (96%)	18 (4%)	1 (0%)	49	82
1	B	519/521 (100%)	500 (96%)	18 (4%)	1 (0%)	49	82
1	C	519/521 (100%)	500 (96%)	18 (4%)	1 (0%)	49	82
1	D	519/521 (100%)	500 (96%)	18 (4%)	1 (0%)	49	82
1	E	519/521 (100%)	500 (96%)	18 (4%)	1 (0%)	49	82
1	F	519/521 (100%)	500 (96%)	18 (4%)	1 (0%)	49	82
1	G	519/521 (100%)	500 (96%)	18 (4%)	1 (0%)	49	82
1	H	519/521 (100%)	500 (96%)	18 (4%)	1 (0%)	49	82
1	I	519/521 (100%)	500 (96%)	18 (4%)	1 (0%)	49	82
1	J	519/521 (100%)	500 (96%)	18 (4%)	1 (0%)	49	82
1	K	519/521 (100%)	500 (96%)	18 (4%)	1 (0%)	49	82
1	L	519/521 (100%)	500 (96%)	18 (4%)	1 (0%)	49	82
1	M	519/521 (100%)	500 (96%)	18 (4%)	1 (0%)	49	82
1	N	519/521 (100%)	500 (96%)	18 (4%)	1 (0%)	49	82
1	O	519/521 (100%)	500 (96%)	18 (4%)	1 (0%)	49	82
1	P	519/521 (100%)	500 (96%)	18 (4%)	1 (0%)	49	82
1	Q	519/521 (100%)	500 (96%)	18 (4%)	1 (0%)	49	82
1	R	519/521 (100%)	501 (96%)	17 (3%)	1 (0%)	49	82
1	S	519/521 (100%)	500 (96%)	18 (4%)	1 (0%)	49	82
1	T	519/521 (100%)	500 (96%)	18 (4%)	1 (0%)	49	82
1	U	519/521 (100%)	500 (96%)	18 (4%)	1 (0%)	49	82
1	V	519/521 (100%)	500 (96%)	18 (4%)	1 (0%)	49	82
1	W	519/521 (100%)	500 (96%)	18 (4%)	1 (0%)	49	82
1	X	519/521 (100%)	500 (96%)	18 (4%)	1 (0%)	49	82
1	Y	519/521 (100%)	500 (96%)	18 (4%)	1 (0%)	49	82
1	Z	519/521 (100%)	500 (96%)	18 (4%)	1 (0%)	49	82
1	a	519/521 (100%)	500 (96%)	18 (4%)	1 (0%)	49	82

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	b	519/521 (100%)	500 (96%)	18 (4%)	1 (0%)	49	82
1	c	519/521 (100%)	500 (96%)	18 (4%)	1 (0%)	49	82
1	d	519/521 (100%)	500 (96%)	18 (4%)	1 (0%)	49	82
1	e	519/521 (100%)	500 (96%)	18 (4%)	1 (0%)	49	82
1	f	519/521 (100%)	500 (96%)	18 (4%)	1 (0%)	49	82
1	g	519/521 (100%)	500 (96%)	18 (4%)	1 (0%)	49	82
1	h	519/521 (100%)	500 (96%)	18 (4%)	1 (0%)	49	82
1	i	519/521 (100%)	500 (96%)	18 (4%)	1 (0%)	49	82
1	j	519/521 (100%)	501 (96%)	17 (3%)	1 (0%)	49	82
1	k	519/521 (100%)	500 (96%)	18 (4%)	1 (0%)	49	82
1	l	519/521 (100%)	500 (96%)	18 (4%)	1 (0%)	49	82
1	m	519/521 (100%)	500 (96%)	18 (4%)	1 (0%)	49	82
1	n	519/521 (100%)	500 (96%)	18 (4%)	1 (0%)	49	82
1	o	519/521 (100%)	500 (96%)	18 (4%)	1 (0%)	49	82
1	p	519/521 (100%)	500 (96%)	18 (4%)	1 (0%)	49	82
1	q	519/521 (100%)	500 (96%)	18 (4%)	1 (0%)	49	82
1	r	519/521 (100%)	501 (96%)	17 (3%)	1 (0%)	49	82
1	s	519/521 (100%)	500 (96%)	18 (4%)	1 (0%)	49	82
1	t	519/521 (100%)	500 (96%)	18 (4%)	1 (0%)	49	82
1	u	519/521 (100%)	500 (96%)	18 (4%)	1 (0%)	49	82
1	v	519/521 (100%)	500 (96%)	18 (4%)	1 (0%)	49	82
1	w	519/521 (100%)	500 (96%)	18 (4%)	1 (0%)	49	82
1	x	519/521 (100%)	500 (96%)	18 (4%)	1 (0%)	49	82
1	y	519/521 (100%)	500 (96%)	18 (4%)	1 (0%)	49	82
1	z	519/521 (100%)	500 (96%)	18 (4%)	1 (0%)	49	82
All	All	31140/31260 (100%)	30003 (96%)	1077 (4%)	60 (0%)	53	82

All (60) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	A	255	ASN
1	B	255	ASN
1	C	255	ASN

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Mol	Chain	Res	Type
1	D	255	ASN
1	E	255	ASN
1	F	255	ASN
1	G	255	ASN
1	H	255	ASN
1	I	255	ASN
1	J	255	ASN
1	K	255	ASN
1	L	255	ASN
1	M	255	ASN
1	N	255	ASN
1	O	255	ASN
1	P	255	ASN
1	Q	255	ASN
1	R	255	ASN
1	S	255	ASN
1	T	255	ASN
1	U	255	ASN
1	V	255	ASN
1	W	255	ASN
1	X	255	ASN
1	Y	255	ASN
1	Z	255	ASN
1	a	255	ASN
1	b	255	ASN
1	c	255	ASN
1	d	255	ASN
1	e	255	ASN
1	f	255	ASN
1	g	255	ASN
1	h	255	ASN
1	i	255	ASN
1	j	255	ASN
1	k	255	ASN
1	l	255	ASN
1	m	255	ASN
1	n	255	ASN
1	o	255	ASN
1	p	255	ASN
1	q	255	ASN
1	r	255	ASN
1	s	255	ASN

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Mol	Chain	Res	Type
1	t	255	ASN
1	u	255	ASN
1	v	255	ASN
1	w	255	ASN
1	x	255	ASN
1	y	255	ASN
1	z	255	ASN
1	1	255	ASN
1	2	255	ASN
1	3	255	ASN
1	4	255	ASN
1	5	255	ASN
1	6	255	ASN
1	7	255	ASN
1	8	255	ASN

### 5.3.2 Protein sidechains ⓘ

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

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

Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
1	1	454/454 (100%)	451 (99%)	3 (1%)	85	93
1	2	454/454 (100%)	451 (99%)	3 (1%)	85	93
1	3	454/454 (100%)	451 (99%)	3 (1%)	85	93
1	4	454/454 (100%)	451 (99%)	3 (1%)	85	93
1	5	454/454 (100%)	451 (99%)	3 (1%)	85	93
1	6	454/454 (100%)	451 (99%)	3 (1%)	85	93
1	7	454/454 (100%)	451 (99%)	3 (1%)	85	93
1	8	454/454 (100%)	451 (99%)	3 (1%)	85	93
1	A	454/454 (100%)	451 (99%)	3 (1%)	85	93
1	B	454/454 (100%)	451 (99%)	3 (1%)	85	93
1	C	454/454 (100%)	451 (99%)	3 (1%)	85	93
1	D	454/454 (100%)	451 (99%)	3 (1%)	85	93

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
1	E	454/454 (100%)	451 (99%)	3 (1%)	85	93
1	F	454/454 (100%)	451 (99%)	3 (1%)	85	93
1	G	454/454 (100%)	451 (99%)	3 (1%)	85	93
1	H	454/454 (100%)	451 (99%)	3 (1%)	85	93
1	I	454/454 (100%)	451 (99%)	3 (1%)	85	93
1	J	454/454 (100%)	451 (99%)	3 (1%)	85	93
1	K	454/454 (100%)	451 (99%)	3 (1%)	85	93
1	L	454/454 (100%)	451 (99%)	3 (1%)	85	93
1	M	454/454 (100%)	451 (99%)	3 (1%)	85	93
1	N	454/454 (100%)	451 (99%)	3 (1%)	85	93
1	O	454/454 (100%)	451 (99%)	3 (1%)	85	93
1	P	454/454 (100%)	451 (99%)	3 (1%)	85	93
1	Q	454/454 (100%)	451 (99%)	3 (1%)	85	93
1	R	454/454 (100%)	451 (99%)	3 (1%)	85	93
1	S	454/454 (100%)	451 (99%)	3 (1%)	85	93
1	T	454/454 (100%)	451 (99%)	3 (1%)	85	93
1	U	454/454 (100%)	451 (99%)	3 (1%)	85	93
1	V	454/454 (100%)	451 (99%)	3 (1%)	85	93
1	W	454/454 (100%)	451 (99%)	3 (1%)	85	93
1	X	454/454 (100%)	451 (99%)	3 (1%)	85	93
1	Y	454/454 (100%)	451 (99%)	3 (1%)	85	93
1	Z	454/454 (100%)	451 (99%)	3 (1%)	85	93
1	a	454/454 (100%)	451 (99%)	3 (1%)	85	93
1	b	454/454 (100%)	451 (99%)	3 (1%)	85	93
1	c	454/454 (100%)	451 (99%)	3 (1%)	85	93
1	d	454/454 (100%)	451 (99%)	3 (1%)	85	93
1	e	454/454 (100%)	451 (99%)	3 (1%)	85	93
1	f	454/454 (100%)	451 (99%)	3 (1%)	85	93
1	g	454/454 (100%)	451 (99%)	3 (1%)	85	93
1	h	454/454 (100%)	451 (99%)	3 (1%)	85	93
1	i	454/454 (100%)	451 (99%)	3 (1%)	85	93

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
1	j	454/454 (100%)	451 (99%)	3 (1%)	85	93
1	k	454/454 (100%)	451 (99%)	3 (1%)	85	93
1	l	454/454 (100%)	451 (99%)	3 (1%)	85	93
1	m	454/454 (100%)	451 (99%)	3 (1%)	85	93
1	n	454/454 (100%)	451 (99%)	3 (1%)	85	93
1	o	454/454 (100%)	451 (99%)	3 (1%)	85	93
1	p	454/454 (100%)	451 (99%)	3 (1%)	85	93
1	q	454/454 (100%)	451 (99%)	3 (1%)	85	93
1	r	454/454 (100%)	451 (99%)	3 (1%)	85	93
1	s	454/454 (100%)	451 (99%)	3 (1%)	85	93
1	t	454/454 (100%)	451 (99%)	3 (1%)	85	93
1	u	454/454 (100%)	451 (99%)	3 (1%)	85	93
1	v	454/454 (100%)	451 (99%)	3 (1%)	85	93
1	w	454/454 (100%)	451 (99%)	3 (1%)	85	93
1	x	454/454 (100%)	451 (99%)	3 (1%)	85	93
1	y	454/454 (100%)	451 (99%)	3 (1%)	85	93
1	z	454/454 (100%)	451 (99%)	3 (1%)	85	93
All	All	27240/27240 (100%)	27060 (99%)	180 (1%)	86	93

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

Mol	Chain	Res	Type
1	A	406	LEU
1	A	448	LEU
1	A	732	ARG
1	B	406	LEU
1	B	448	LEU
1	B	732	ARG
1	C	406	LEU
1	C	448	LEU
1	C	732	ARG
1	D	406	LEU
1	D	448	LEU
1	D	732	ARG
1	E	406	LEU
1	E	448	LEU

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Mol	Chain	Res	Type
1	E	732	ARG
1	F	406	LEU
1	F	448	LEU
1	F	732	ARG
1	G	406	LEU
1	G	448	LEU
1	G	732	ARG
1	H	406	LEU
1	H	448	LEU
1	H	732	ARG
1	I	406	LEU
1	I	448	LEU
1	I	732	ARG
1	J	406	LEU
1	J	448	LEU
1	J	732	ARG
1	K	406	LEU
1	K	448	LEU
1	K	732	ARG
1	L	406	LEU
1	L	448	LEU
1	L	732	ARG
1	M	406	LEU
1	M	448	LEU
1	M	732	ARG
1	N	406	LEU
1	N	448	LEU
1	N	732	ARG
1	O	406	LEU
1	O	448	LEU
1	O	732	ARG
1	P	406	LEU
1	P	448	LEU
1	P	732	ARG
1	Q	406	LEU
1	Q	448	LEU
1	Q	732	ARG
1	R	406	LEU
1	R	448	LEU
1	R	732	ARG
1	S	406	LEU
1	S	448	LEU

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Mol	Chain	Res	Type
1	S	732	ARG
1	T	406	LEU
1	T	448	LEU
1	T	732	ARG
1	U	406	LEU
1	U	448	LEU
1	U	732	ARG
1	V	406	LEU
1	V	448	LEU
1	V	732	ARG
1	W	406	LEU
1	W	448	LEU
1	W	732	ARG
1	X	406	LEU
1	X	448	LEU
1	X	732	ARG
1	Y	406	LEU
1	Y	448	LEU
1	Y	732	ARG
1	Z	406	LEU
1	Z	448	LEU
1	Z	732	ARG
1	a	406	LEU
1	a	448	LEU
1	a	732	ARG
1	b	406	LEU
1	b	448	LEU
1	b	732	ARG
1	c	406	LEU
1	c	448	LEU
1	c	732	ARG
1	d	406	LEU
1	d	448	LEU
1	d	732	ARG
1	e	406	LEU
1	e	448	LEU
1	e	732	ARG
1	f	406	LEU
1	f	448	LEU
1	f	732	ARG
1	g	406	LEU
1	g	448	LEU

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Mol	Chain	Res	Type
1	g	732	ARG
1	h	406	LEU
1	h	448	LEU
1	h	732	ARG
1	i	406	LEU
1	i	448	LEU
1	i	732	ARG
1	j	406	LEU
1	j	448	LEU
1	j	732	ARG
1	k	406	LEU
1	k	448	LEU
1	k	732	ARG
1	l	406	LEU
1	l	448	LEU
1	l	732	ARG
1	m	406	LEU
1	m	448	LEU
1	m	732	ARG
1	n	406	LEU
1	n	448	LEU
1	n	732	ARG
1	o	406	LEU
1	o	448	LEU
1	o	732	ARG
1	p	406	LEU
1	p	448	LEU
1	p	732	ARG
1	q	406	LEU
1	q	448	LEU
1	q	732	ARG
1	r	406	LEU
1	r	448	LEU
1	r	732	ARG
1	s	406	LEU
1	s	448	LEU
1	s	732	ARG
1	t	406	LEU
1	t	448	LEU
1	t	732	ARG
1	u	406	LEU
1	u	448	LEU

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Mol	Chain	Res	Type
1	u	732	ARG
1	v	406	LEU
1	v	448	LEU
1	v	732	ARG
1	w	406	LEU
1	w	448	LEU
1	w	732	ARG
1	x	406	LEU
1	x	448	LEU
1	x	732	ARG
1	y	406	LEU
1	y	448	LEU
1	y	732	ARG
1	z	406	LEU
1	z	448	LEU
1	z	732	ARG
1	1	406	LEU
1	1	448	LEU
1	1	732	ARG
1	2	406	LEU
1	2	448	LEU
1	2	732	ARG
1	3	406	LEU
1	3	448	LEU
1	3	732	ARG
1	4	406	LEU
1	4	448	LEU
1	4	732	ARG
1	5	406	LEU
1	5	448	LEU
1	5	732	ARG
1	6	406	LEU
1	6	448	LEU
1	6	732	ARG
1	7	406	LEU
1	7	448	LEU
1	7	732	ARG
1	8	406	LEU
1	8	448	LEU
1	8	732	ARG

Some sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (780) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	322	GLN
1	A	328	GLN
1	A	344	GLN
1	A	404	GLN
1	A	431	GLN
1	A	587	GLN
1	A	597	ASN
1	A	601	GLN
1	A	611	ASN
1	A	626	HIS
1	A	653	ASN
1	A	675	GLN
1	A	737	ASN
1	B	322	GLN
1	B	328	GLN
1	B	344	GLN
1	B	404	GLN
1	B	431	GLN
1	B	587	GLN
1	B	597	ASN
1	B	601	GLN
1	B	611	ASN
1	B	626	HIS
1	B	653	ASN
1	B	675	GLN
1	B	737	ASN
1	C	322	GLN
1	C	328	GLN
1	C	344	GLN
1	C	404	GLN
1	C	431	GLN
1	C	587	GLN
1	C	597	ASN
1	C	601	GLN
1	C	611	ASN
1	C	626	HIS
1	C	653	ASN
1	C	675	GLN
1	C	737	ASN
1	D	322	GLN
1	D	328	GLN
1	D	344	GLN
1	D	404	GLN

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Mol	Chain	Res	Type
1	D	431	GLN
1	D	587	GLN
1	D	597	ASN
1	D	601	GLN
1	D	611	ASN
1	D	626	HIS
1	D	653	ASN
1	D	675	GLN
1	D	737	ASN
1	E	322	GLN
1	E	328	GLN
1	E	344	GLN
1	E	404	GLN
1	E	431	GLN
1	E	587	GLN
1	E	597	ASN
1	E	601	GLN
1	E	611	ASN
1	E	626	HIS
1	E	653	ASN
1	E	675	GLN
1	E	737	ASN
1	F	322	GLN
1	F	328	GLN
1	F	344	GLN
1	F	404	GLN
1	F	431	GLN
1	F	587	GLN
1	F	597	ASN
1	F	601	GLN
1	F	611	ASN
1	F	626	HIS
1	F	653	ASN
1	F	675	GLN
1	F	737	ASN
1	G	322	GLN
1	G	328	GLN
1	G	344	GLN
1	G	404	GLN
1	G	431	GLN
1	G	587	GLN
1	G	597	ASN

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Mol	Chain	Res	Type
1	G	601	GLN
1	G	611	ASN
1	G	626	HIS
1	G	653	ASN
1	G	675	GLN
1	G	737	ASN
1	H	322	GLN
1	H	328	GLN
1	H	344	GLN
1	H	404	GLN
1	H	431	GLN
1	H	587	GLN
1	H	597	ASN
1	H	601	GLN
1	H	611	ASN
1	H	626	HIS
1	H	653	ASN
1	H	675	GLN
1	H	737	ASN
1	I	322	GLN
1	I	328	GLN
1	I	344	GLN
1	I	404	GLN
1	I	431	GLN
1	I	587	GLN
1	I	597	ASN
1	I	601	GLN
1	I	611	ASN
1	I	626	HIS
1	I	653	ASN
1	I	675	GLN
1	I	737	ASN
1	J	322	GLN
1	J	328	GLN
1	J	344	GLN
1	J	404	GLN
1	J	431	GLN
1	J	587	GLN
1	J	597	ASN
1	J	601	GLN
1	J	611	ASN
1	J	626	HIS

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Mol	Chain	Res	Type
1	J	653	ASN
1	J	675	GLN
1	J	737	ASN
1	K	322	GLN
1	K	328	GLN
1	K	344	GLN
1	K	404	GLN
1	K	431	GLN
1	K	587	GLN
1	K	597	ASN
1	K	601	GLN
1	K	611	ASN
1	K	626	HIS
1	K	653	ASN
1	K	675	GLN
1	K	737	ASN
1	L	322	GLN
1	L	328	GLN
1	L	344	GLN
1	L	404	GLN
1	L	431	GLN
1	L	587	GLN
1	L	597	ASN
1	L	601	GLN
1	L	611	ASN
1	L	626	HIS
1	L	653	ASN
1	L	675	GLN
1	L	737	ASN
1	M	322	GLN
1	M	328	GLN
1	M	344	GLN
1	M	404	GLN
1	M	431	GLN
1	M	587	GLN
1	M	597	ASN
1	M	601	GLN
1	M	611	ASN
1	M	626	HIS
1	M	653	ASN
1	M	675	GLN
1	M	737	ASN

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Mol	Chain	Res	Type
1	N	322	GLN
1	N	328	GLN
1	N	344	GLN
1	N	404	GLN
1	N	431	GLN
1	N	587	GLN
1	N	597	ASN
1	N	601	GLN
1	N	611	ASN
1	N	626	HIS
1	N	653	ASN
1	N	675	GLN
1	N	737	ASN
1	O	322	GLN
1	O	328	GLN
1	O	344	GLN
1	O	404	GLN
1	O	431	GLN
1	O	587	GLN
1	O	597	ASN
1	O	601	GLN
1	O	611	ASN
1	O	626	HIS
1	O	653	ASN
1	O	675	GLN
1	O	737	ASN
1	P	322	GLN
1	P	328	GLN
1	P	344	GLN
1	P	404	GLN
1	P	431	GLN
1	P	587	GLN
1	P	597	ASN
1	P	601	GLN
1	P	611	ASN
1	P	626	HIS
1	P	653	ASN
1	P	675	GLN
1	P	737	ASN
1	Q	322	GLN
1	Q	328	GLN
1	Q	344	GLN

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Mol	Chain	Res	Type
1	Q	404	GLN
1	Q	431	GLN
1	Q	587	GLN
1	Q	597	ASN
1	Q	601	GLN
1	Q	611	ASN
1	Q	626	HIS
1	Q	653	ASN
1	Q	675	GLN
1	Q	737	ASN
1	R	322	GLN
1	R	328	GLN
1	R	344	GLN
1	R	404	GLN
1	R	431	GLN
1	R	587	GLN
1	R	597	ASN
1	R	601	GLN
1	R	611	ASN
1	R	626	HIS
1	R	653	ASN
1	R	675	GLN
1	R	737	ASN
1	S	322	GLN
1	S	328	GLN
1	S	344	GLN
1	S	404	GLN
1	S	431	GLN
1	S	587	GLN
1	S	597	ASN
1	S	601	GLN
1	S	611	ASN
1	S	626	HIS
1	S	653	ASN
1	S	675	GLN
1	S	737	ASN
1	T	322	GLN
1	T	328	GLN
1	T	344	GLN
1	T	404	GLN
1	T	431	GLN
1	T	587	GLN

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Mol	Chain	Res	Type
1	T	597	ASN
1	T	601	GLN
1	T	611	ASN
1	T	626	HIS
1	T	653	ASN
1	T	675	GLN
1	T	737	ASN
1	U	322	GLN
1	U	328	GLN
1	U	344	GLN
1	U	404	GLN
1	U	431	GLN
1	U	587	GLN
1	U	597	ASN
1	U	601	GLN
1	U	611	ASN
1	U	626	HIS
1	U	653	ASN
1	U	675	GLN
1	U	737	ASN
1	V	322	GLN
1	V	328	GLN
1	V	344	GLN
1	V	404	GLN
1	V	431	GLN
1	V	587	GLN
1	V	597	ASN
1	V	601	GLN
1	V	611	ASN
1	V	626	HIS
1	V	653	ASN
1	V	675	GLN
1	V	737	ASN
1	W	322	GLN
1	W	328	GLN
1	W	344	GLN
1	W	404	GLN
1	W	431	GLN
1	W	587	GLN
1	W	597	ASN
1	W	601	GLN
1	W	611	ASN

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Mol	Chain	Res	Type
1	W	626	HIS
1	W	653	ASN
1	W	675	GLN
1	W	737	ASN
1	X	322	GLN
1	X	328	GLN
1	X	344	GLN
1	X	404	GLN
1	X	431	GLN
1	X	587	GLN
1	X	597	ASN
1	X	601	GLN
1	X	611	ASN
1	X	626	HIS
1	X	653	ASN
1	X	675	GLN
1	X	737	ASN
1	Y	322	GLN
1	Y	328	GLN
1	Y	344	GLN
1	Y	404	GLN
1	Y	431	GLN
1	Y	587	GLN
1	Y	597	ASN
1	Y	601	GLN
1	Y	611	ASN
1	Y	626	HIS
1	Y	653	ASN
1	Y	675	GLN
1	Y	737	ASN
1	Z	322	GLN
1	Z	328	GLN
1	Z	344	GLN
1	Z	404	GLN
1	Z	431	GLN
1	Z	587	GLN
1	Z	597	ASN
1	Z	601	GLN
1	Z	611	ASN
1	Z	626	HIS
1	Z	653	ASN
1	Z	675	GLN

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Mol	Chain	Res	Type
1	Z	737	ASN
1	a	322	GLN
1	a	328	GLN
1	a	344	GLN
1	a	404	GLN
1	a	431	GLN
1	a	587	GLN
1	a	597	ASN
1	a	601	GLN
1	a	611	ASN
1	a	626	HIS
1	a	653	ASN
1	a	675	GLN
1	a	737	ASN
1	b	322	GLN
1	b	328	GLN
1	b	344	GLN
1	b	404	GLN
1	b	431	GLN
1	b	587	GLN
1	b	597	ASN
1	b	601	GLN
1	b	611	ASN
1	b	626	HIS
1	b	653	ASN
1	b	675	GLN
1	b	737	ASN
1	c	322	GLN
1	c	328	GLN
1	c	344	GLN
1	c	404	GLN
1	c	431	GLN
1	c	587	GLN
1	c	597	ASN
1	c	601	GLN
1	c	611	ASN
1	c	626	HIS
1	c	653	ASN
1	c	675	GLN
1	c	737	ASN
1	d	322	GLN
1	d	328	GLN

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Mol	Chain	Res	Type
1	d	344	GLN
1	d	404	GLN
1	d	431	GLN
1	d	587	GLN
1	d	597	ASN
1	d	601	GLN
1	d	611	ASN
1	d	626	HIS
1	d	653	ASN
1	d	675	GLN
1	d	737	ASN
1	e	322	GLN
1	e	328	GLN
1	e	344	GLN
1	e	404	GLN
1	e	431	GLN
1	e	587	GLN
1	e	597	ASN
1	e	601	GLN
1	e	611	ASN
1	e	626	HIS
1	e	653	ASN
1	e	675	GLN
1	e	737	ASN
1	f	322	GLN
1	f	328	GLN
1	f	344	GLN
1	f	404	GLN
1	f	431	GLN
1	f	587	GLN
1	f	597	ASN
1	f	601	GLN
1	f	611	ASN
1	f	626	HIS
1	f	653	ASN
1	f	675	GLN
1	f	737	ASN
1	g	322	GLN
1	g	328	GLN
1	g	344	GLN
1	g	404	GLN
1	g	431	GLN

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Mol	Chain	Res	Type
1	g	587	GLN
1	g	597	ASN
1	g	601	GLN
1	g	611	ASN
1	g	626	HIS
1	g	653	ASN
1	g	675	GLN
1	g	737	ASN
1	h	322	GLN
1	h	328	GLN
1	h	344	GLN
1	h	404	GLN
1	h	431	GLN
1	h	587	GLN
1	h	597	ASN
1	h	601	GLN
1	h	611	ASN
1	h	626	HIS
1	h	653	ASN
1	h	675	GLN
1	h	737	ASN
1	i	322	GLN
1	i	328	GLN
1	i	344	GLN
1	i	404	GLN
1	i	431	GLN
1	i	587	GLN
1	i	597	ASN
1	i	601	GLN
1	i	611	ASN
1	i	626	HIS
1	i	653	ASN
1	i	675	GLN
1	i	737	ASN
1	j	322	GLN
1	j	328	GLN
1	j	344	GLN
1	j	404	GLN
1	j	431	GLN
1	j	587	GLN
1	j	597	ASN
1	j	601	GLN

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Mol	Chain	Res	Type
1	j	611	ASN
1	j	626	HIS
1	j	653	ASN
1	j	675	GLN
1	j	737	ASN
1	k	322	GLN
1	k	328	GLN
1	k	344	GLN
1	k	404	GLN
1	k	431	GLN
1	k	587	GLN
1	k	597	ASN
1	k	601	GLN
1	k	611	ASN
1	k	626	HIS
1	k	653	ASN
1	k	675	GLN
1	k	737	ASN
1	l	322	GLN
1	l	328	GLN
1	l	344	GLN
1	l	404	GLN
1	l	431	GLN
1	l	587	GLN
1	l	597	ASN
1	l	601	GLN
1	l	611	ASN
1	l	626	HIS
1	l	653	ASN
1	l	675	GLN
1	l	737	ASN
1	m	322	GLN
1	m	328	GLN
1	m	344	GLN
1	m	404	GLN
1	m	431	GLN
1	m	587	GLN
1	m	597	ASN
1	m	601	GLN
1	m	611	ASN
1	m	626	HIS
1	m	653	ASN

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Mol	Chain	Res	Type
1	m	675	GLN
1	m	737	ASN
1	n	322	GLN
1	n	328	GLN
1	n	344	GLN
1	n	404	GLN
1	n	431	GLN
1	n	587	GLN
1	n	597	ASN
1	n	601	GLN
1	n	611	ASN
1	n	626	HIS
1	n	653	ASN
1	n	675	GLN
1	n	737	ASN
1	o	322	GLN
1	o	328	GLN
1	o	344	GLN
1	o	404	GLN
1	o	431	GLN
1	o	587	GLN
1	o	597	ASN
1	o	601	GLN
1	o	611	ASN
1	o	626	HIS
1	o	653	ASN
1	o	675	GLN
1	o	737	ASN
1	p	322	GLN
1	p	328	GLN
1	p	344	GLN
1	p	404	GLN
1	p	431	GLN
1	p	587	GLN
1	p	597	ASN
1	p	601	GLN
1	p	611	ASN
1	p	626	HIS
1	p	653	ASN
1	p	675	GLN
1	p	737	ASN
1	q	322	GLN

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Mol	Chain	Res	Type
1	q	328	GLN
1	q	344	GLN
1	q	404	GLN
1	q	431	GLN
1	q	587	GLN
1	q	597	ASN
1	q	601	GLN
1	q	611	ASN
1	q	626	HIS
1	q	653	ASN
1	q	675	GLN
1	q	737	ASN
1	r	322	GLN
1	r	328	GLN
1	r	344	GLN
1	r	404	GLN
1	r	431	GLN
1	r	587	GLN
1	r	597	ASN
1	r	601	GLN
1	r	611	ASN
1	r	626	HIS
1	r	653	ASN
1	r	675	GLN
1	r	737	ASN
1	s	322	GLN
1	s	328	GLN
1	s	344	GLN
1	s	404	GLN
1	s	431	GLN
1	s	587	GLN
1	s	597	ASN
1	s	601	GLN
1	s	611	ASN
1	s	626	HIS
1	s	653	ASN
1	s	675	GLN
1	s	737	ASN
1	t	322	GLN
1	t	328	GLN
1	t	344	GLN
1	t	404	GLN

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Mol	Chain	Res	Type
1	t	431	GLN
1	t	587	GLN
1	t	597	ASN
1	t	601	GLN
1	t	611	ASN
1	t	626	HIS
1	t	653	ASN
1	t	675	GLN
1	t	737	ASN
1	u	322	GLN
1	u	328	GLN
1	u	344	GLN
1	u	404	GLN
1	u	431	GLN
1	u	587	GLN
1	u	597	ASN
1	u	601	GLN
1	u	611	ASN
1	u	626	HIS
1	u	653	ASN
1	u	675	GLN
1	u	737	ASN
1	v	322	GLN
1	v	328	GLN
1	v	344	GLN
1	v	404	GLN
1	v	431	GLN
1	v	587	GLN
1	v	597	ASN
1	v	601	GLN
1	v	611	ASN
1	v	626	HIS
1	v	653	ASN
1	v	675	GLN
1	v	737	ASN
1	w	322	GLN
1	w	328	GLN
1	w	344	GLN
1	w	404	GLN
1	w	431	GLN
1	w	587	GLN
1	w	597	ASN

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Mol	Chain	Res	Type
1	w	601	GLN
1	w	611	ASN
1	w	626	HIS
1	w	653	ASN
1	w	675	GLN
1	w	737	ASN
1	x	322	GLN
1	x	328	GLN
1	x	344	GLN
1	x	404	GLN
1	x	431	GLN
1	x	587	GLN
1	x	597	ASN
1	x	601	GLN
1	x	611	ASN
1	x	626	HIS
1	x	653	ASN
1	x	675	GLN
1	x	737	ASN
1	y	322	GLN
1	y	328	GLN
1	y	344	GLN
1	y	404	GLN
1	y	431	GLN
1	y	587	GLN
1	y	597	ASN
1	y	601	GLN
1	y	611	ASN
1	y	626	HIS
1	y	653	ASN
1	y	675	GLN
1	y	737	ASN
1	z	322	GLN
1	z	328	GLN
1	z	344	GLN
1	z	404	GLN
1	z	431	GLN
1	z	587	GLN
1	z	597	ASN
1	z	601	GLN
1	z	611	ASN
1	z	626	HIS

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Mol	Chain	Res	Type
1	z	653	ASN
1	z	675	GLN
1	z	737	ASN
1	1	322	GLN
1	1	328	GLN
1	1	344	GLN
1	1	404	GLN
1	1	431	GLN
1	1	587	GLN
1	1	597	ASN
1	1	601	GLN
1	1	611	ASN
1	1	626	HIS
1	1	653	ASN
1	1	675	GLN
1	1	737	ASN
1	2	322	GLN
1	2	328	GLN
1	2	344	GLN
1	2	404	GLN
1	2	431	GLN
1	2	587	GLN
1	2	597	ASN
1	2	601	GLN
1	2	611	ASN
1	2	626	HIS
1	2	653	ASN
1	2	675	GLN
1	2	737	ASN
1	3	322	GLN
1	3	328	GLN
1	3	344	GLN
1	3	404	GLN
1	3	431	GLN
1	3	587	GLN
1	3	597	ASN
1	3	601	GLN
1	3	611	ASN
1	3	626	HIS
1	3	653	ASN
1	3	675	GLN
1	3	737	ASN

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Mol	Chain	Res	Type
1	4	322	GLN
1	4	328	GLN
1	4	344	GLN
1	4	404	GLN
1	4	431	GLN
1	4	587	GLN
1	4	597	ASN
1	4	601	GLN
1	4	611	ASN
1	4	626	HIS
1	4	653	ASN
1	4	675	GLN
1	4	737	ASN
1	5	322	GLN
1	5	328	GLN
1	5	344	GLN
1	5	404	GLN
1	5	431	GLN
1	5	587	GLN
1	5	597	ASN
1	5	601	GLN
1	5	611	ASN
1	5	626	HIS
1	5	653	ASN
1	5	675	GLN
1	5	737	ASN
1	6	322	GLN
1	6	328	GLN
1	6	344	GLN
1	6	404	GLN
1	6	431	GLN
1	6	587	GLN
1	6	597	ASN
1	6	601	GLN
1	6	611	ASN
1	6	626	HIS
1	6	653	ASN
1	6	675	GLN
1	6	737	ASN
1	7	322	GLN
1	7	328	GLN
1	7	344	GLN

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Mol	Chain	Res	Type
1	7	404	GLN
1	7	431	GLN
1	7	587	GLN
1	7	597	ASN
1	7	601	GLN
1	7	611	ASN
1	7	626	HIS
1	7	653	ASN
1	7	675	GLN
1	7	737	ASN
1	8	322	GLN
1	8	328	GLN
1	8	344	GLN
1	8	404	GLN
1	8	431	GLN
1	8	587	GLN
1	8	597	ASN
1	8	601	GLN
1	8	611	ASN
1	8	626	HIS
1	8	653	ASN
1	8	675	GLN
1	8	737	ASN

### 5.3.3 RNA ⓘ

There are no RNA molecules in this entry.

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

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

### 5.5 Carbohydrates ⓘ

There are no carbohydrates in this entry.

### 5.6 Ligand geometry ⓘ

There are no ligands in this entry.



## 5.7 Other polymers [i](#)

There are no such residues in this entry.

## 5.8 Polymer linkage issues [i](#)

There are no chain breaks in this entry.