



Full wwPDB EM Validation Report ⓘ

May 19, 2025 – 03:50 AM EDT

PDB ID : 5IPI / pdb_00005ipi
EMDB ID : EMD-8099
Title : Structure of Adeno-associated virus type 2 VLP
Authors : Drouin, L.M.; Lins, B.; Janssen, M.E.; Bennet, A.; Chipman, P.; McKenna, R.; Chen, W.; Muzyczka, N.; Cardone, G.; Baker, T.S.; Agbandje-McKenna, M.
Deposited on : 2016-03-09
Resolution : 3.80 Å(reported)

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

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

A user guide is available at

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

The types of validation reports are described at

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

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

EMDB validation analysis : 0.0.1.dev118
MolProbity : 4-5-2 with Phenix2.0rc1
Percentile statistics : 20231227.v01 (using entries in the PDB archive December 27th 2023)
MapQ : 1.9.13
Ideal geometry (proteins) : Engh & Huber (2001)
Ideal geometry (DNA, RNA) : Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP) : 2.43.1

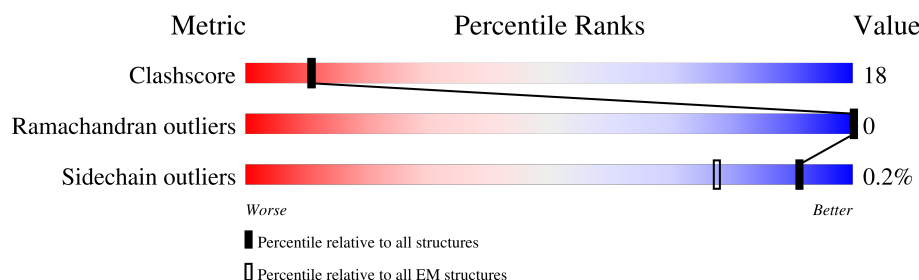
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

ELECTRON MICROSCOPY

The reported resolution of this entry is 3.80 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	210492	15764
Ramachandran outliers	207382	16835
Sidechain outliers	206894	16415

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

Mol	Chain	Length	Quality of chain
1	1	735	17% 44% 25% 30%
1	2	735	17% 45% 24% 30%
1	3	735	16% 44% 25% 30%
1	4	735	17% 44% 25% 30%
1	5	735	17% 44% 25% 30%
1	6	735	17% 44% 25% 30%
1	7	735	16% 44% 26% 30%
1	8	735	16% 44% 25% 30%

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Mol	Chain	Length	Quality of chain
1	A	735	
1	B	735	
1	C	735	
1	D	735	
1	E	735	
1	F	735	
1	G	735	
1	H	735	
1	I	735	
1	J	735	
1	K	735	
1	L	735	
1	M	735	
1	N	735	
1	O	735	
1	P	735	
1	Q	735	
1	R	735	
1	S	735	
1	T	735	
1	U	735	
1	V	735	
1	W	735	
1	X	735	
1	Y	735	

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Mol	Chain	Length	Quality of chain
1	Z	735	
1	a	735	
1	b	735	
1	c	735	
1	d	735	
1	e	735	
1	f	735	
1	g	735	
1	h	735	
1	i	735	
1	j	735	
1	k	735	
1	l	735	
1	m	735	
1	n	735	
1	o	735	
1	p	735	
1	q	735	
1	r	735	
1	s	735	
1	t	735	
1	u	735	
1	v	735	
1	w	735	
1	x	735	

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Mol	Chain	Length	Quality of chain
1	y	735	17% 43% 26% 30%
1	z	735	17% 45% 25% 30%

2 Entry composition [i](#)

There is only 1 type of molecule in this entry. The entry contains 246360 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	511	Total	C	N	O	S	0	0
			4106	2588	716	789	13		
1	B	511	Total	C	N	O	S	0	0
			4106	2588	716	789	13		
1	C	511	Total	C	N	O	S	0	0
			4106	2588	716	789	13		
1	D	511	Total	C	N	O	S	0	0
			4106	2588	716	789	13		
1	E	511	Total	C	N	O	S	0	0
			4106	2588	716	789	13		
1	F	511	Total	C	N	O	S	0	0
			4106	2588	716	789	13		
1	G	511	Total	C	N	O	S	0	0
			4106	2588	716	789	13		
1	H	511	Total	C	N	O	S	0	0
			4106	2588	716	789	13		
1	I	511	Total	C	N	O	S	0	0
			4106	2588	716	789	13		
1	J	511	Total	C	N	O	S	0	0
			4106	2588	716	789	13		
1	K	511	Total	C	N	O	S	0	0
			4106	2588	716	789	13		
1	L	511	Total	C	N	O	S	0	0
			4106	2588	716	789	13		
1	M	511	Total	C	N	O	S	0	0
			4106	2588	716	789	13		
1	N	511	Total	C	N	O	S	0	0
			4106	2588	716	789	13		
1	O	511	Total	C	N	O	S	0	0
			4106	2588	716	789	13		
1	P	511	Total	C	N	O	S	0	0
			4106	2588	716	789	13		
1	Q	511	Total	C	N	O	S	0	0
			4106	2588	716	789	13		

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Mol	Chain	Residues	Atoms					AltConf	Trace
1	R	511	Total 4106	C 2588	N 716	O 789	S 13	0	0
1	S	511	Total 4106	C 2588	N 716	O 789	S 13	0	0
1	T	511	Total 4106	C 2588	N 716	O 789	S 13	0	0
1	U	511	Total 4106	C 2588	N 716	O 789	S 13	0	0
1	V	511	Total 4106	C 2588	N 716	O 789	S 13	0	0
1	W	511	Total 4106	C 2588	N 716	O 789	S 13	0	0
1	X	511	Total 4106	C 2588	N 716	O 789	S 13	0	0
1	Y	511	Total 4106	C 2588	N 716	O 789	S 13	0	0
1	Z	511	Total 4106	C 2588	N 716	O 789	S 13	0	0
1	a	511	Total 4106	C 2588	N 716	O 789	S 13	0	0
1	b	511	Total 4106	C 2588	N 716	O 789	S 13	0	0
1	c	511	Total 4106	C 2588	N 716	O 789	S 13	0	0
1	d	511	Total 4106	C 2588	N 716	O 789	S 13	0	0
1	e	511	Total 4106	C 2588	N 716	O 789	S 13	0	0
1	f	511	Total 4106	C 2588	N 716	O 789	S 13	0	0
1	g	511	Total 4106	C 2588	N 716	O 789	S 13	0	0
1	h	511	Total 4106	C 2588	N 716	O 789	S 13	0	0
1	i	511	Total 4106	C 2588	N 716	O 789	S 13	0	0
1	j	511	Total 4106	C 2588	N 716	O 789	S 13	0	0
1	k	511	Total 4106	C 2588	N 716	O 789	S 13	0	0
1	l	511	Total 4106	C 2588	N 716	O 789	S 13	0	0

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Mol	Chain	Residues	Atoms					AltConf	Trace
1	m	511	Total 4106	C 2588	N 716	O 789	S 13	0	0
1	n	511	Total 4106	C 2588	N 716	O 789	S 13	0	0
1	o	511	Total 4106	C 2588	N 716	O 789	S 13	0	0
1	p	511	Total 4106	C 2588	N 716	O 789	S 13	0	0
1	q	511	Total 4106	C 2588	N 716	O 789	S 13	0	0
1	r	511	Total 4106	C 2588	N 716	O 789	S 13	0	0
1	s	511	Total 4106	C 2588	N 716	O 789	S 13	0	0
1	t	511	Total 4106	C 2588	N 716	O 789	S 13	0	0
1	u	511	Total 4106	C 2588	N 716	O 789	S 13	0	0
1	v	511	Total 4106	C 2588	N 716	O 789	S 13	0	0
1	w	511	Total 4106	C 2588	N 716	O 789	S 13	0	0
1	x	511	Total 4106	C 2588	N 716	O 789	S 13	0	0
1	y	511	Total 4106	C 2588	N 716	O 789	S 13	0	0
1	z	511	Total 4106	C 2588	N 716	O 789	S 13	0	0
1	1	511	Total 4106	C 2588	N 716	O 789	S 13	0	0
1	2	511	Total 4106	C 2588	N 716	O 789	S 13	0	0
1	3	511	Total 4106	C 2588	N 716	O 789	S 13	0	0
1	4	511	Total 4106	C 2588	N 716	O 789	S 13	0	0
1	5	511	Total 4106	C 2588	N 716	O 789	S 13	0	0
1	6	511	Total 4106	C 2588	N 716	O 789	S 13	0	0
1	7	511	Total 4106	C 2588	N 716	O 789	S 13	0	0

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Mol	Chain	Residues	Atoms					AltConf	Trace
1	8	511	Total	C	N	O	S	0	0
			4106	2588	716	789	13		

There are 60 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
A	452	THR	SER	conflict	UNP P03135
B	452	THR	SER	conflict	UNP P03135
C	452	THR	SER	conflict	UNP P03135
D	452	THR	SER	conflict	UNP P03135
E	452	THR	SER	conflict	UNP P03135
F	452	THR	SER	conflict	UNP P03135
G	452	THR	SER	conflict	UNP P03135
H	452	THR	SER	conflict	UNP P03135
I	452	THR	SER	conflict	UNP P03135
J	452	THR	SER	conflict	UNP P03135
K	452	THR	SER	conflict	UNP P03135
L	452	THR	SER	conflict	UNP P03135
M	452	THR	SER	conflict	UNP P03135
N	452	THR	SER	conflict	UNP P03135
O	452	THR	SER	conflict	UNP P03135
P	452	THR	SER	conflict	UNP P03135
Q	452	THR	SER	conflict	UNP P03135
R	452	THR	SER	conflict	UNP P03135
S	452	THR	SER	conflict	UNP P03135
T	452	THR	SER	conflict	UNP P03135
U	452	THR	SER	conflict	UNP P03135
V	452	THR	SER	conflict	UNP P03135
W	452	THR	SER	conflict	UNP P03135
X	452	THR	SER	conflict	UNP P03135
Y	452	THR	SER	conflict	UNP P03135
Z	452	THR	SER	conflict	UNP P03135
a	452	THR	SER	conflict	UNP P03135
b	452	THR	SER	conflict	UNP P03135
c	452	THR	SER	conflict	UNP P03135
d	452	THR	SER	conflict	UNP P03135
e	452	THR	SER	conflict	UNP P03135
f	452	THR	SER	conflict	UNP P03135
g	452	THR	SER	conflict	UNP P03135
h	452	THR	SER	conflict	UNP P03135
i	452	THR	SER	conflict	UNP P03135
j	452	THR	SER	conflict	UNP P03135

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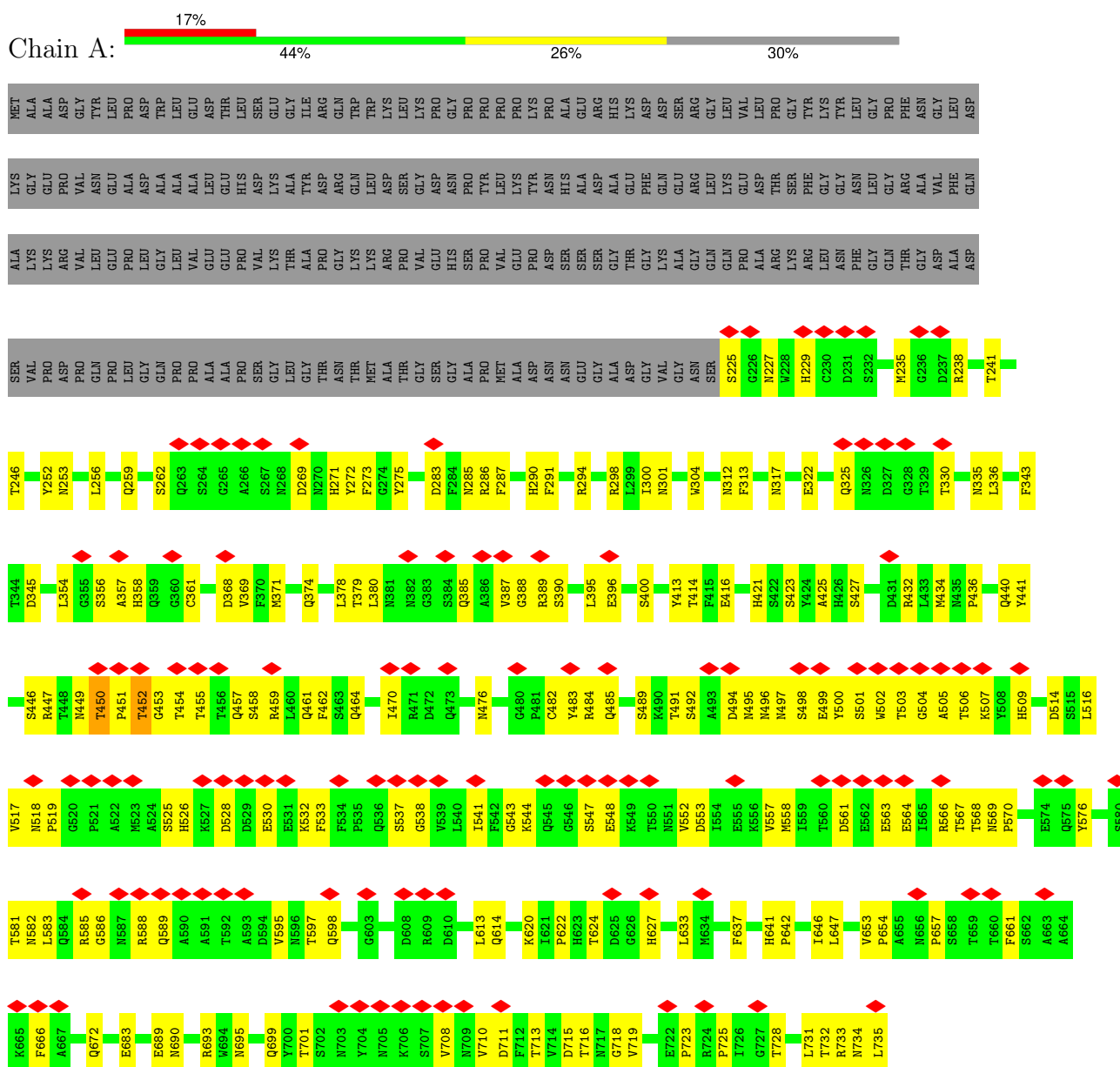
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Chain	Residue	Modelled	Actual	Comment	Reference
k	452	THR	SER	conflict	UNP P03135
l	452	THR	SER	conflict	UNP P03135
m	452	THR	SER	conflict	UNP P03135
n	452	THR	SER	conflict	UNP P03135
o	452	THR	SER	conflict	UNP P03135
p	452	THR	SER	conflict	UNP P03135
q	452	THR	SER	conflict	UNP P03135
r	452	THR	SER	conflict	UNP P03135
s	452	THR	SER	conflict	UNP P03135
t	452	THR	SER	conflict	UNP P03135
u	452	THR	SER	conflict	UNP P03135
v	452	THR	SER	conflict	UNP P03135
w	452	THR	SER	conflict	UNP P03135
x	452	THR	SER	conflict	UNP P03135
y	452	THR	SER	conflict	UNP P03135
z	452	THR	SER	conflict	UNP P03135
1	452	THR	SER	conflict	UNP P03135
2	452	THR	SER	conflict	UNP P03135
3	452	THR	SER	conflict	UNP P03135
4	452	THR	SER	conflict	UNP P03135
5	452	THR	SER	conflict	UNP P03135
6	452	THR	SER	conflict	UNP P03135
7	452	THR	SER	conflict	UNP P03135
8	452	THR	SER	conflict	UNP P03135

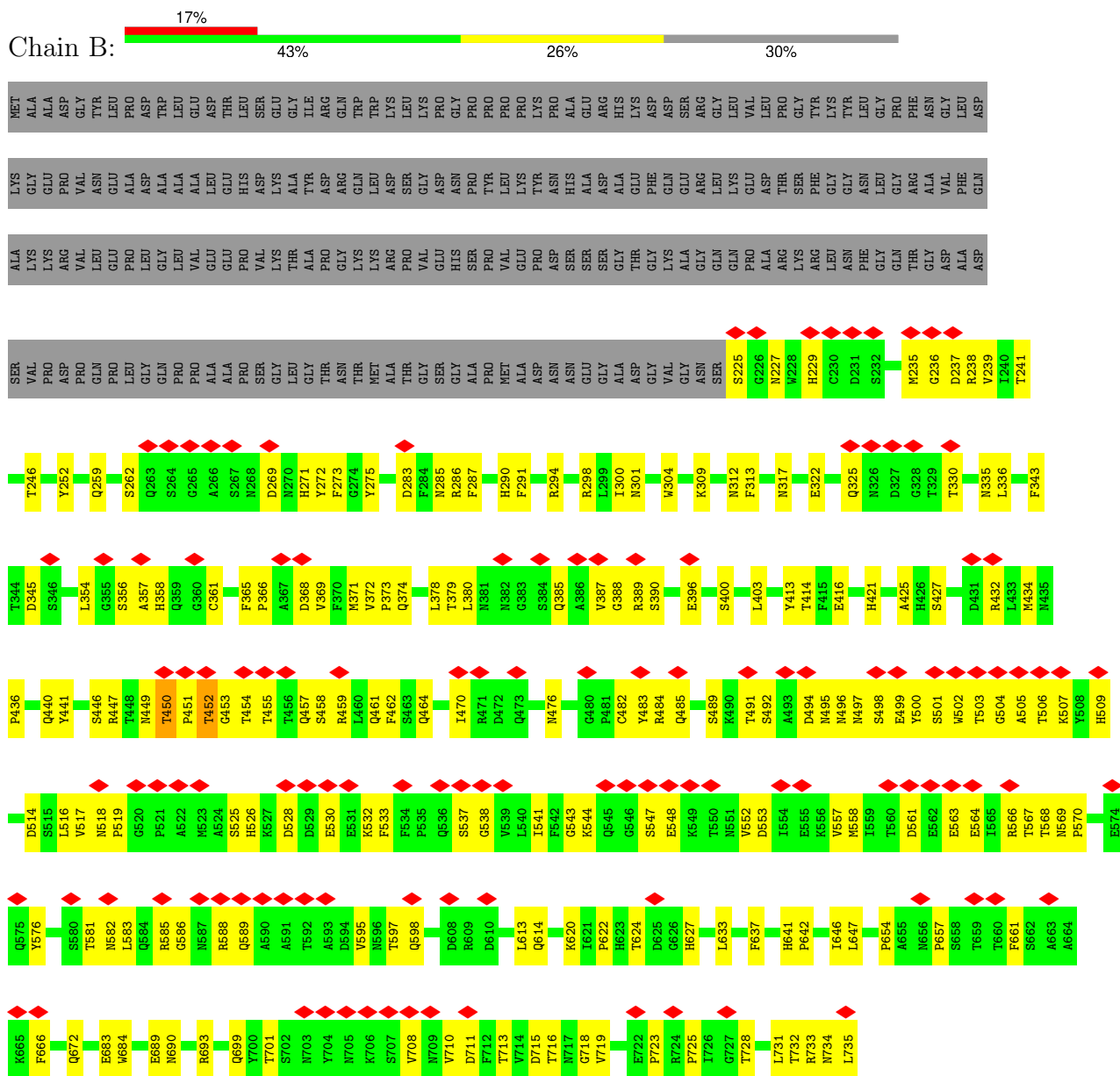
3 Residue-property plots

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

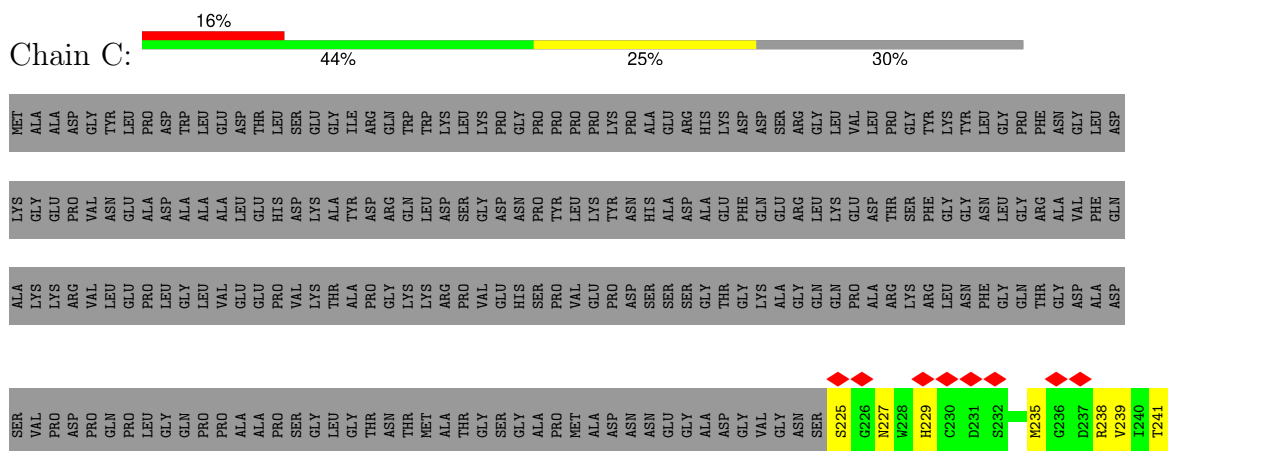
• Molecule 1: Capsid protein VP1

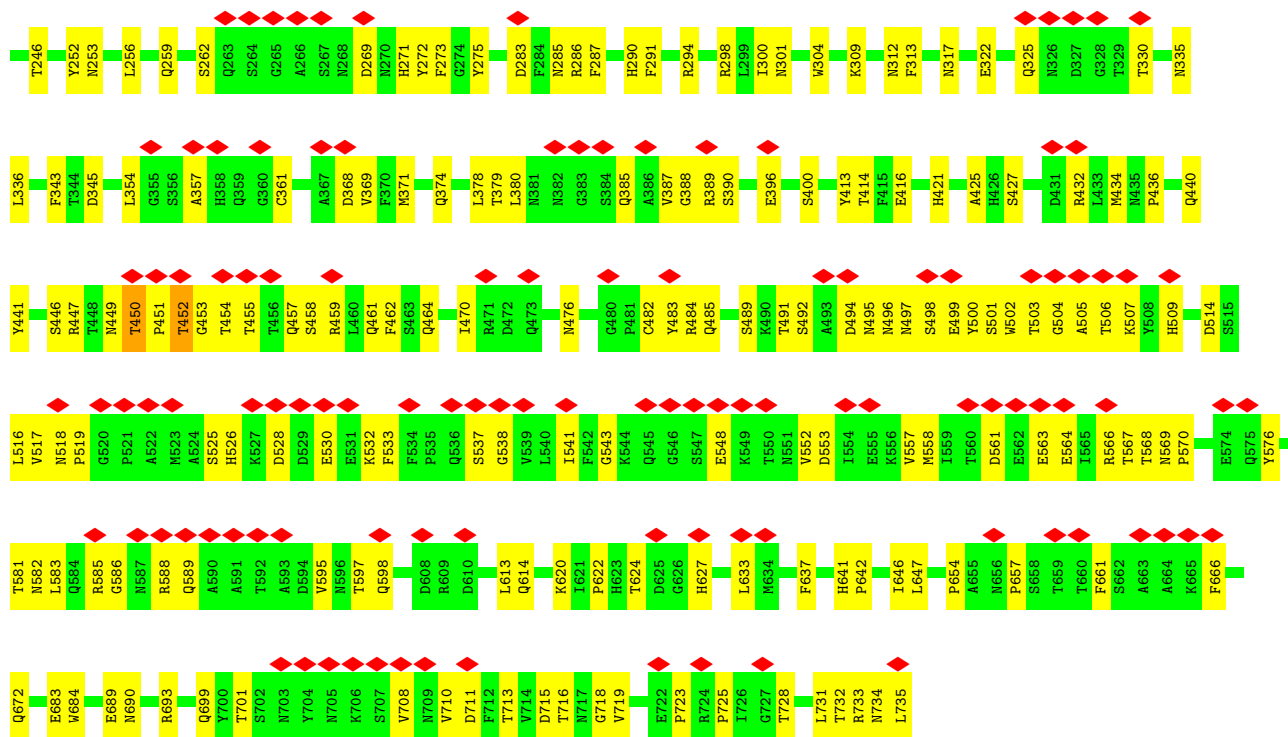


• Molecule 1: Capsid protein VP1

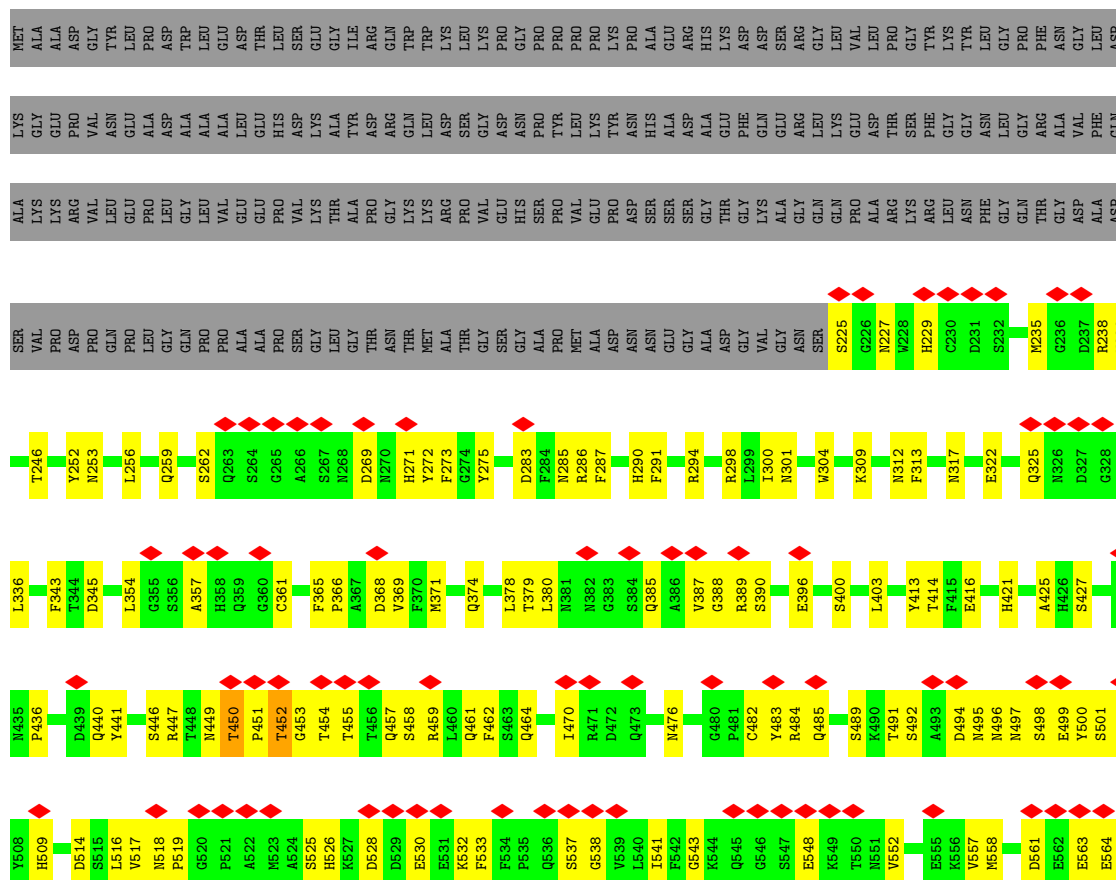


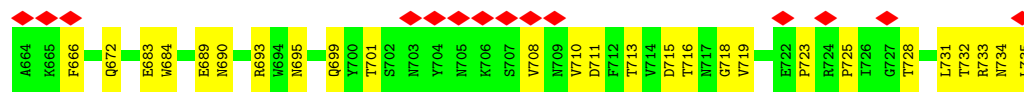
- Molecule 1: Capsid protein VP1



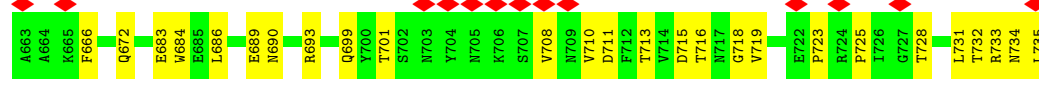
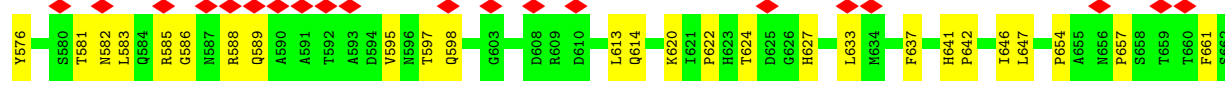
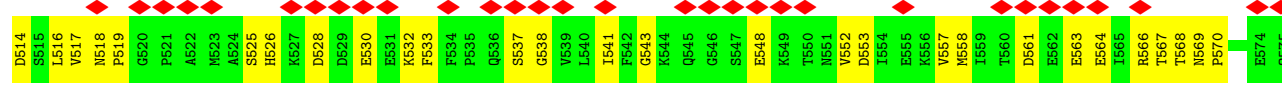
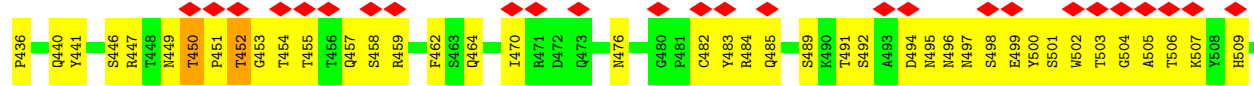
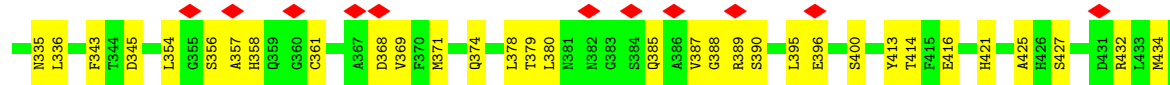
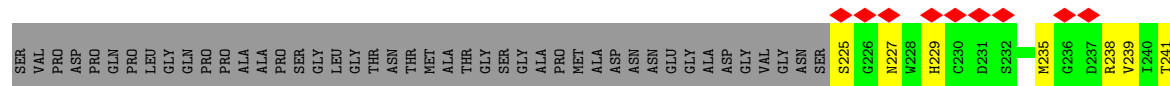
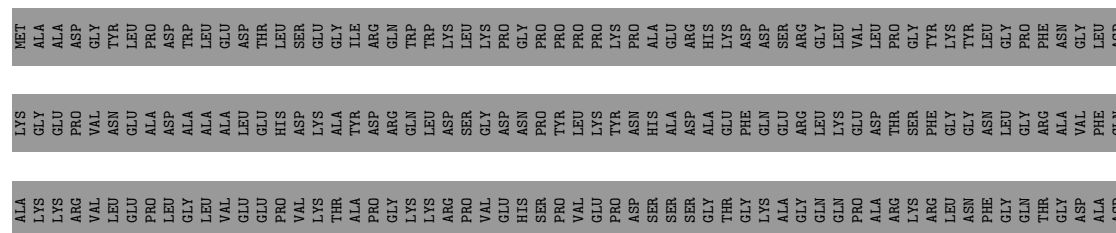


• Molecule 1: Capsid protein VP1

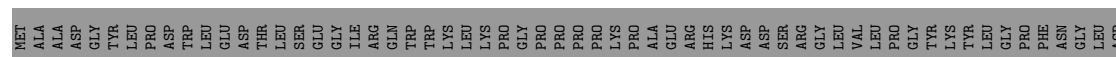


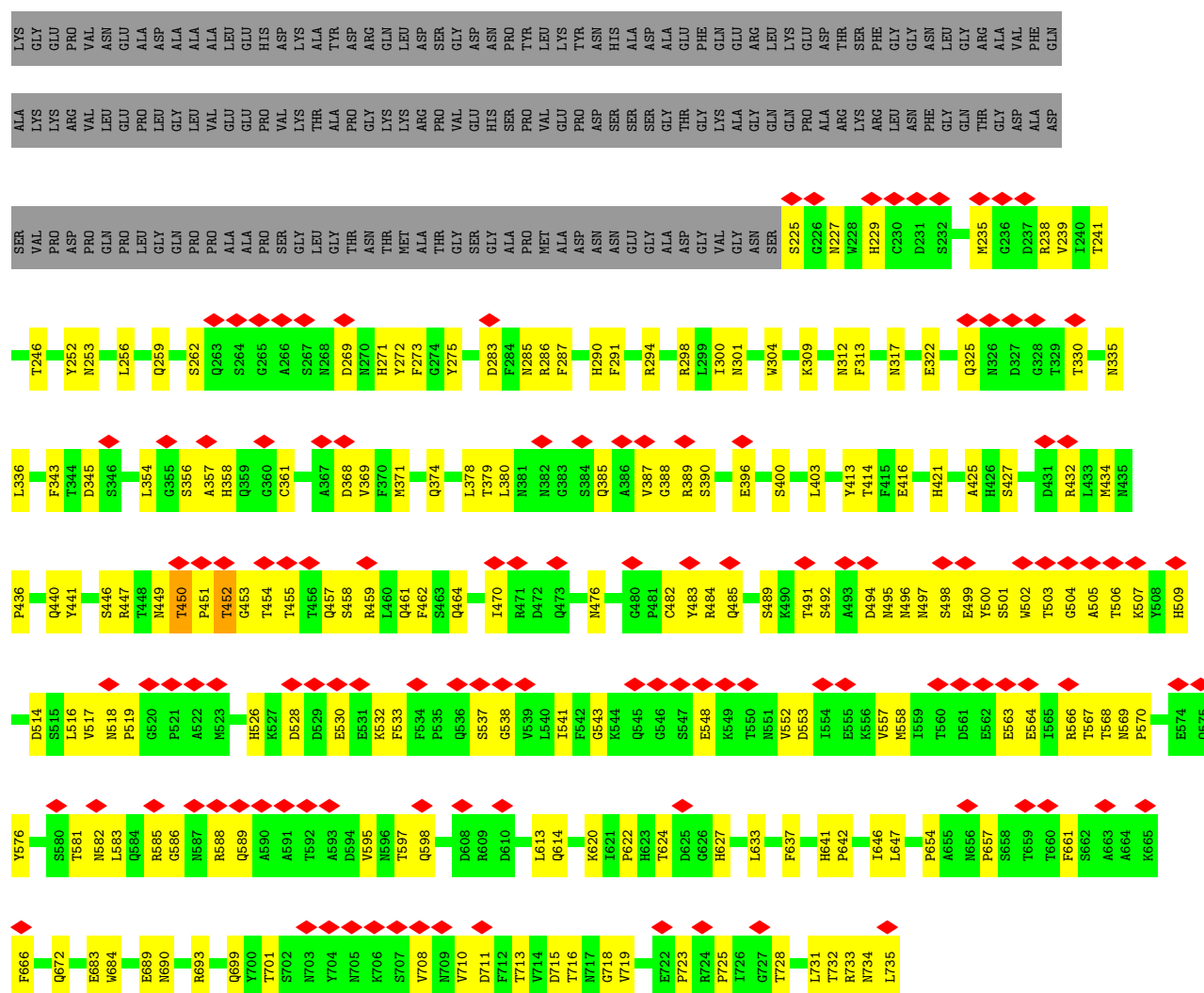


Chain E:

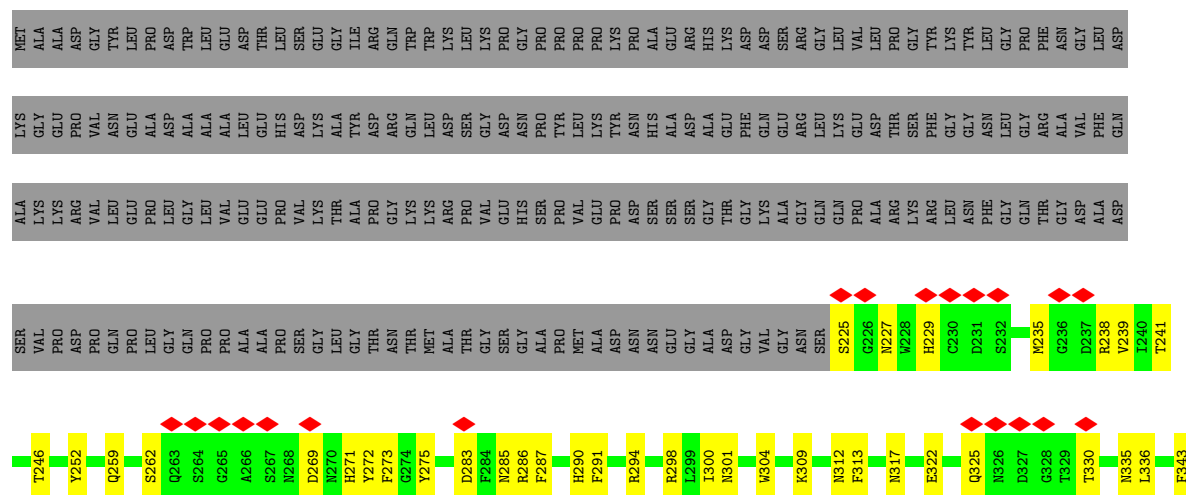


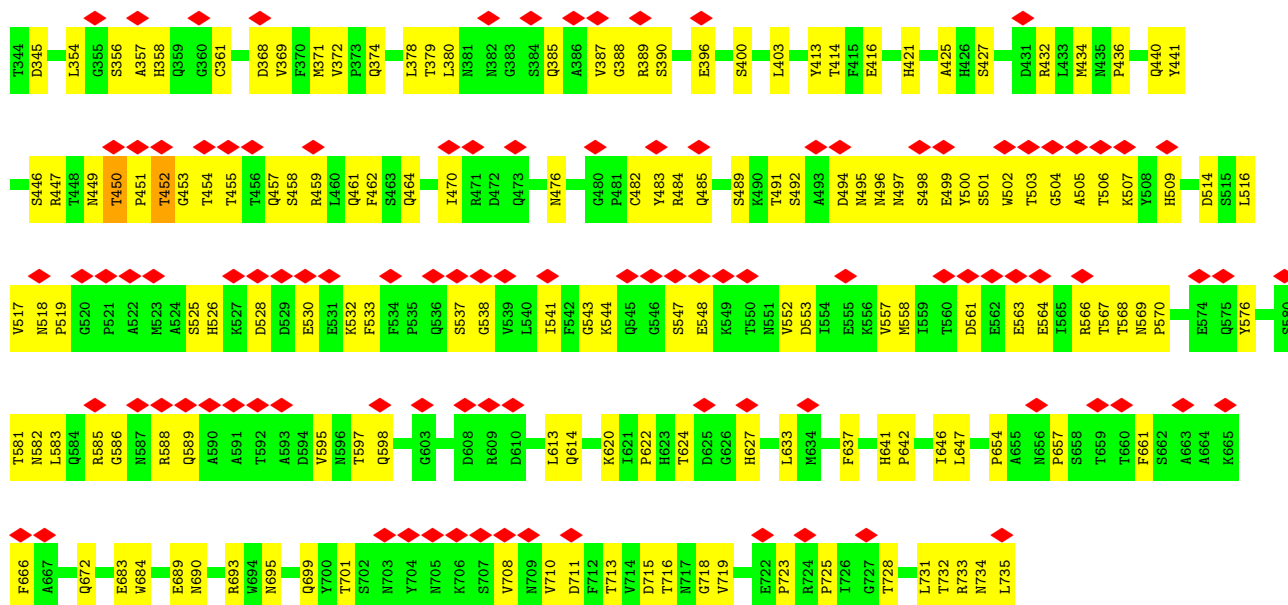
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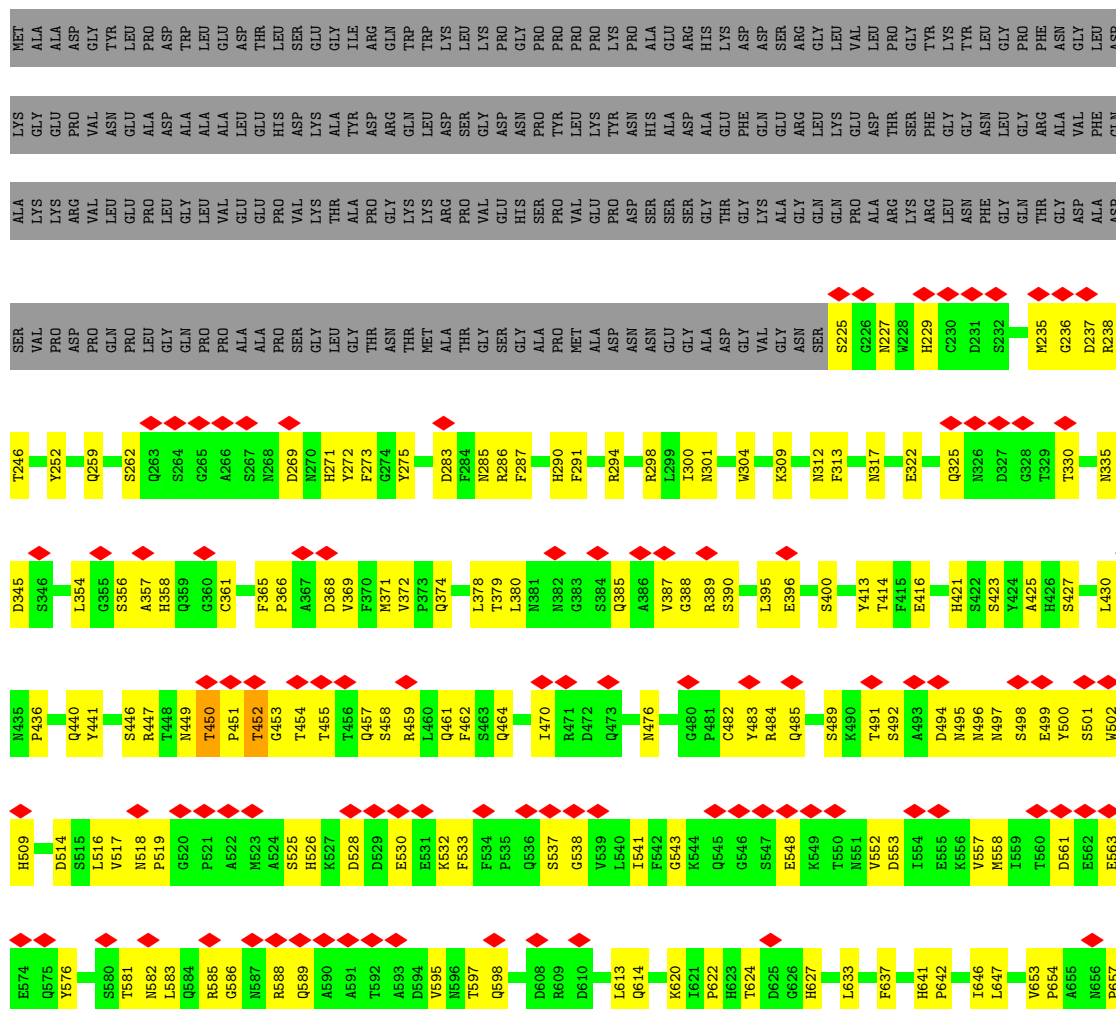
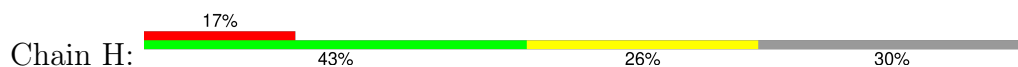


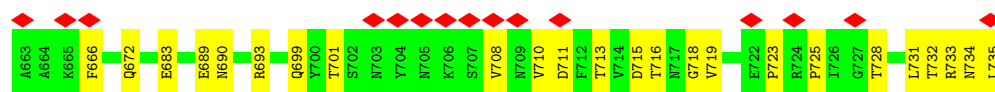
- Molecule 1: Capsid protein VP1



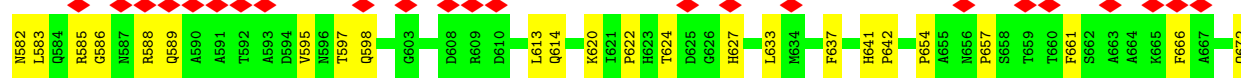
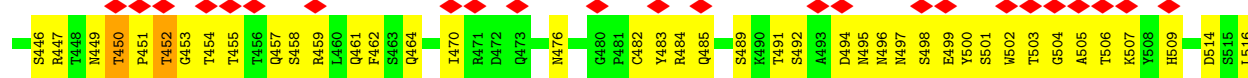
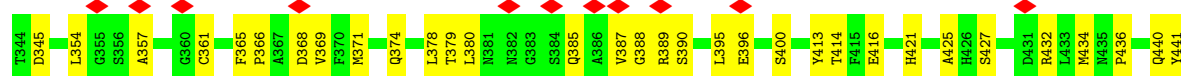
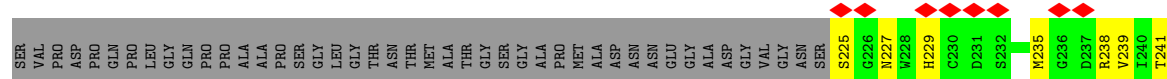
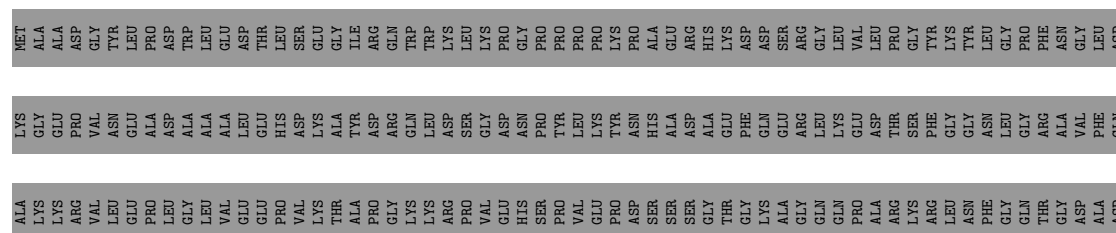
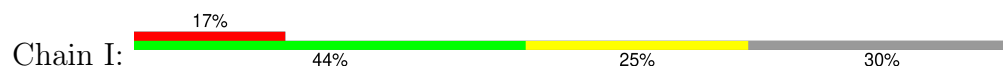


• Molecule 1: Capsid protein VP1

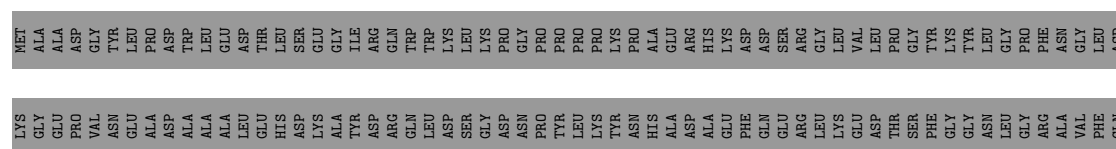
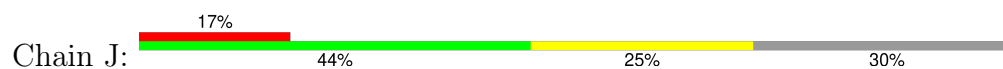


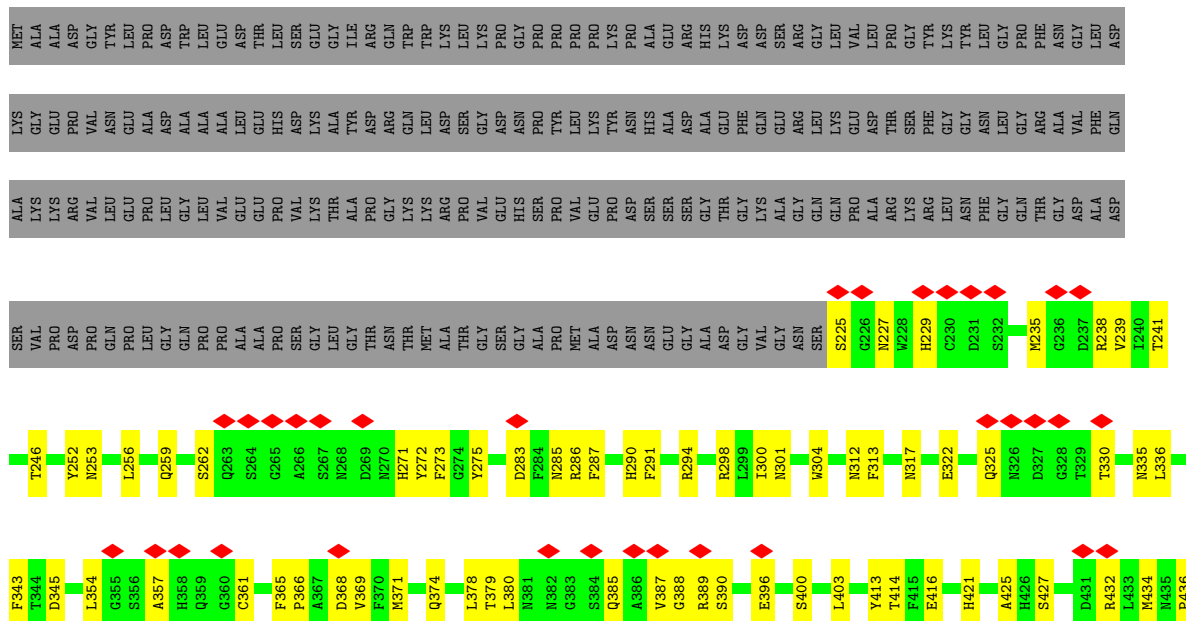


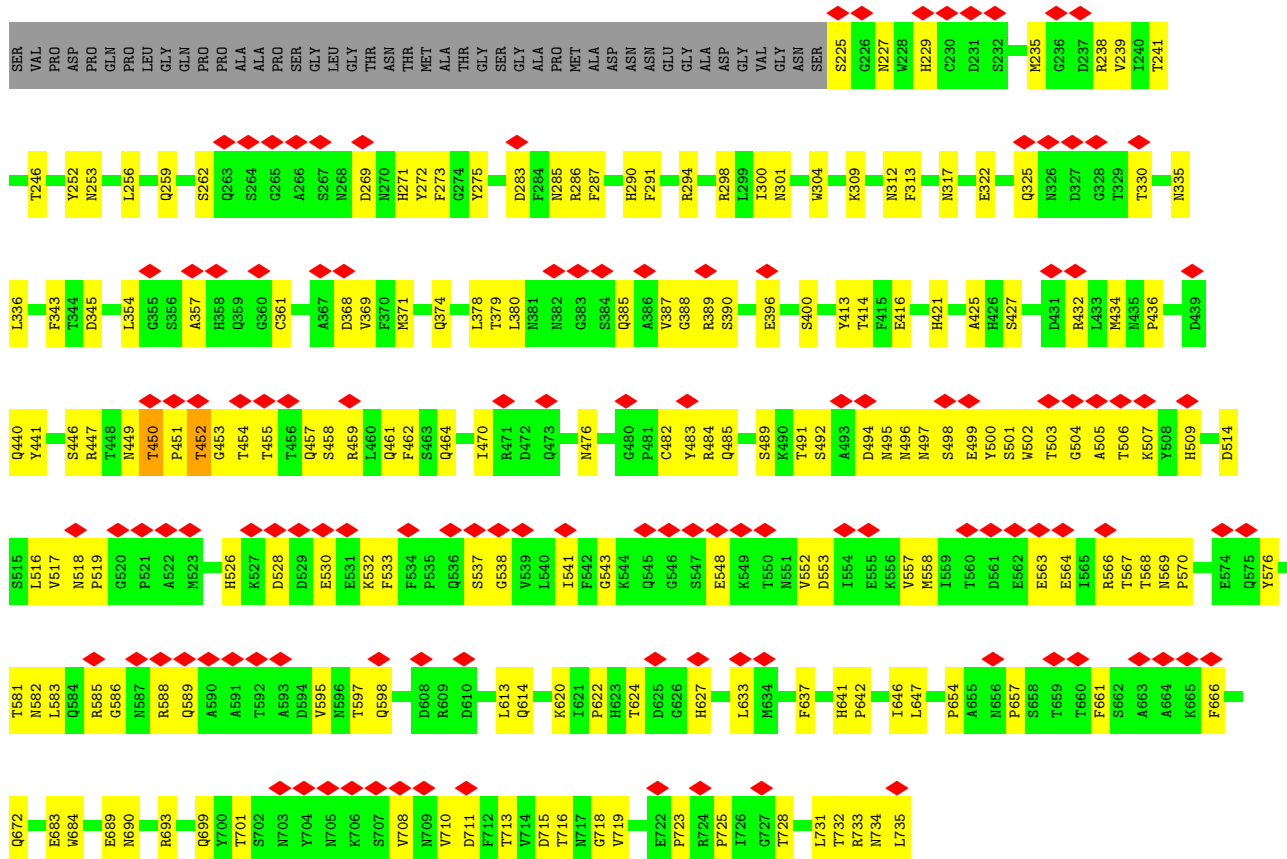
• Molecule 1: Capsid protein VP1



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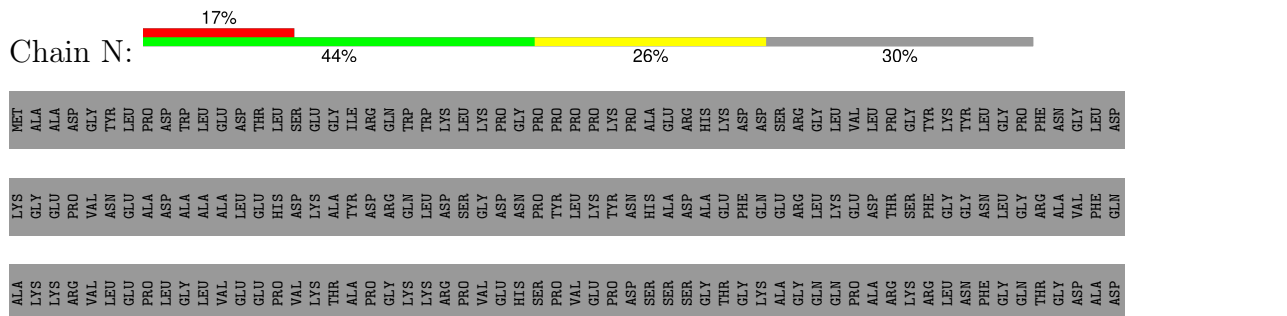


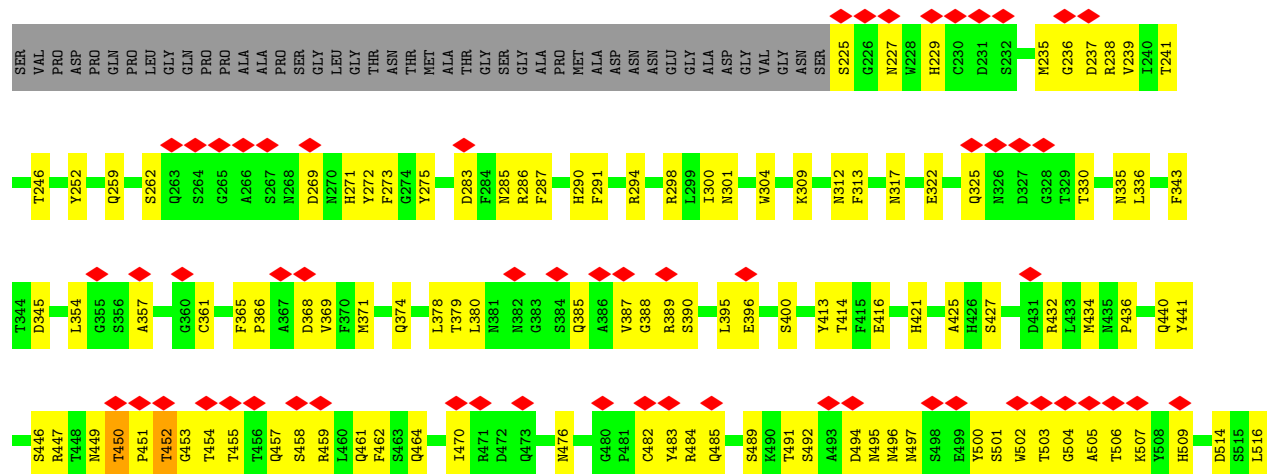


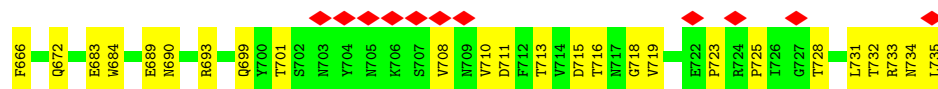
Chain M:



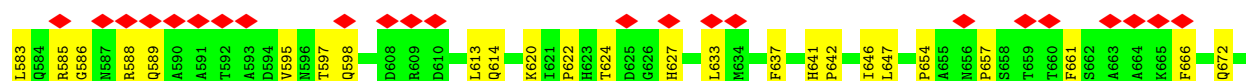
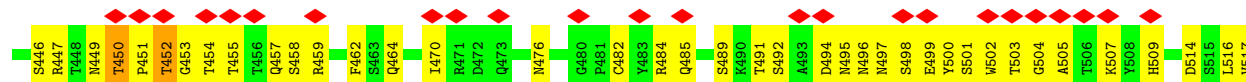
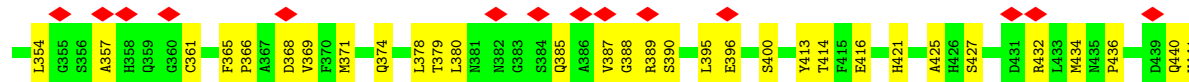
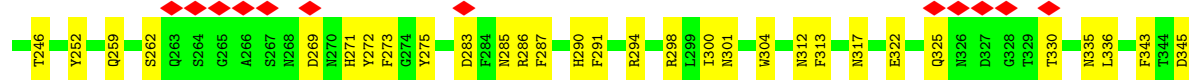
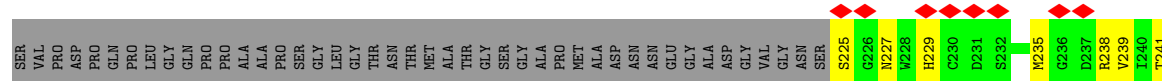
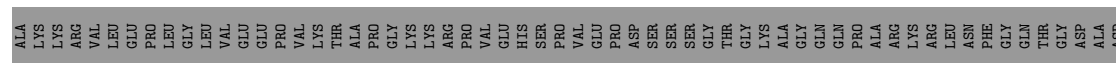
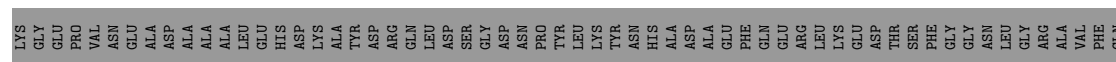
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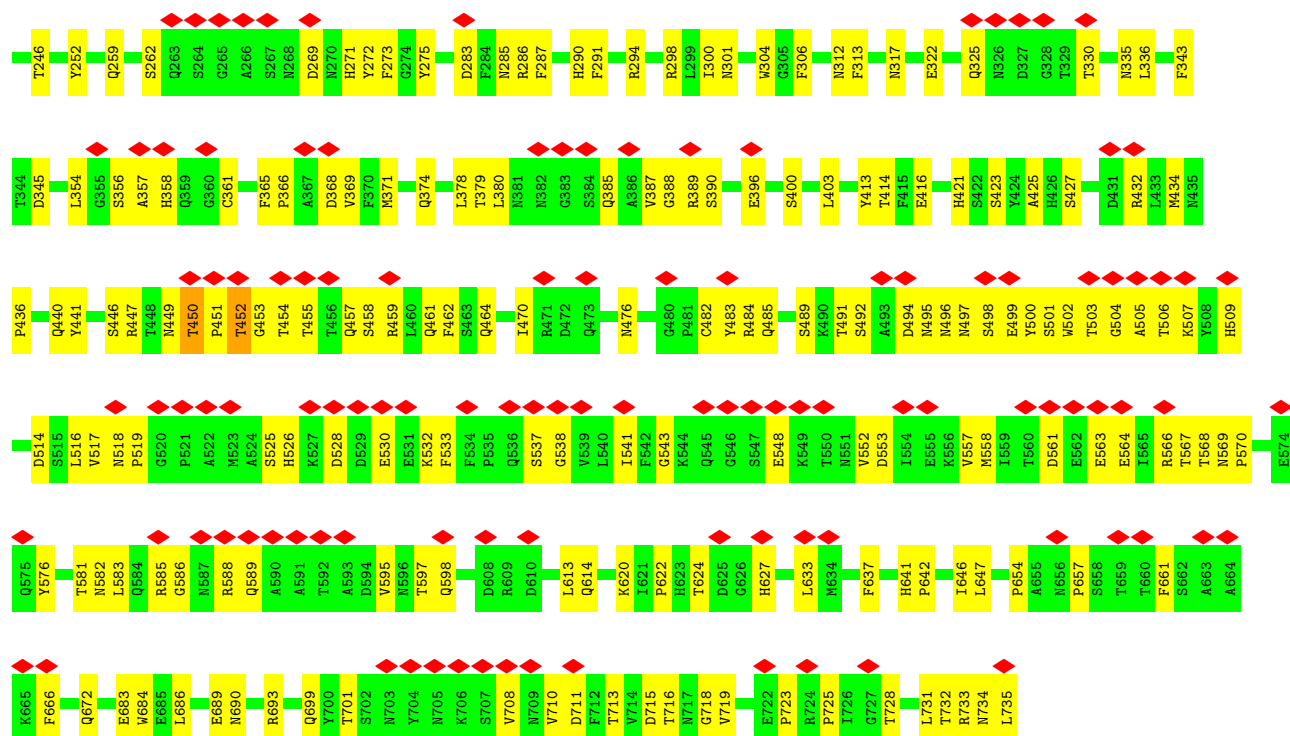


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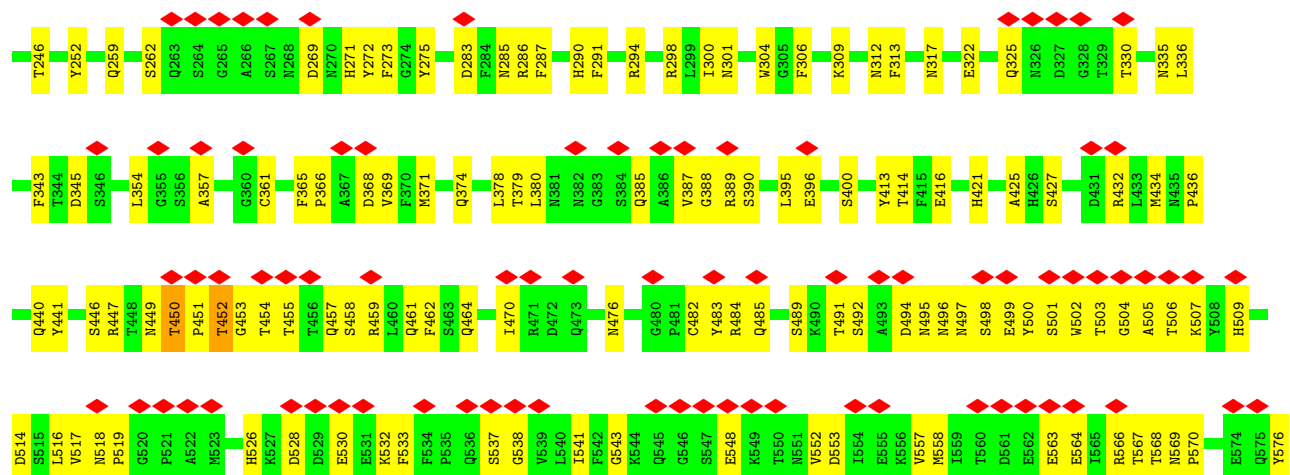
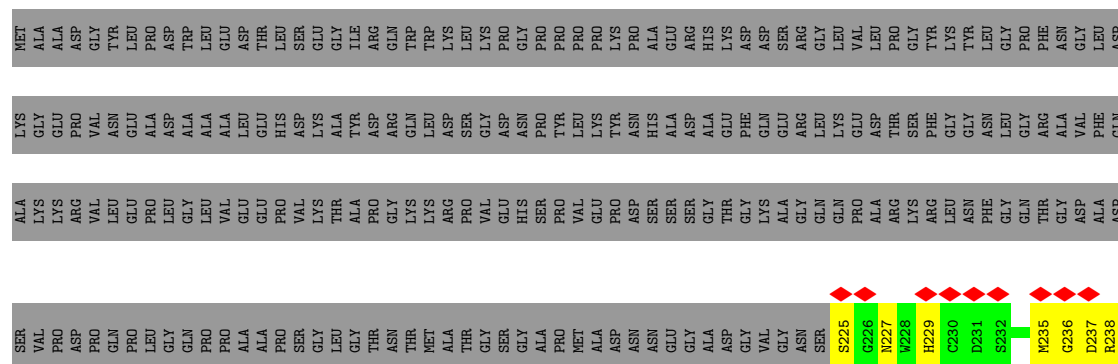


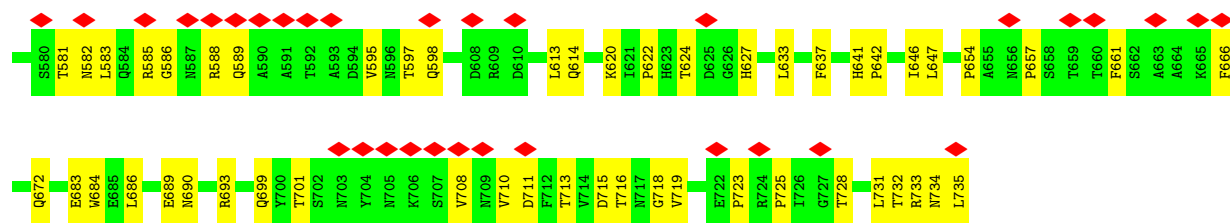
- Molecule 1: Capsid protein VP1



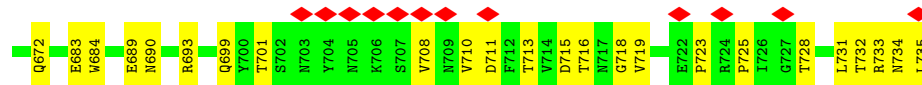
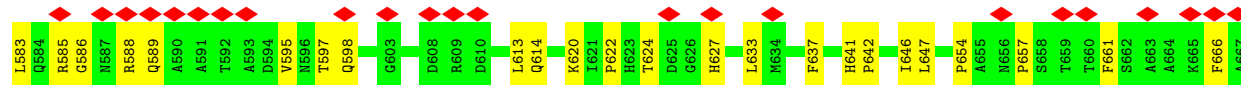
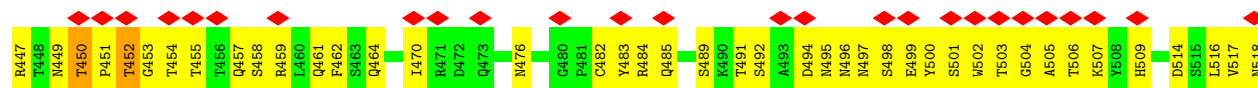
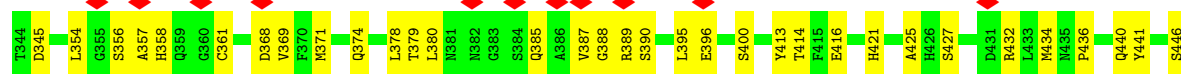
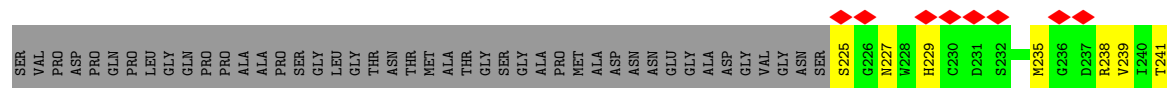
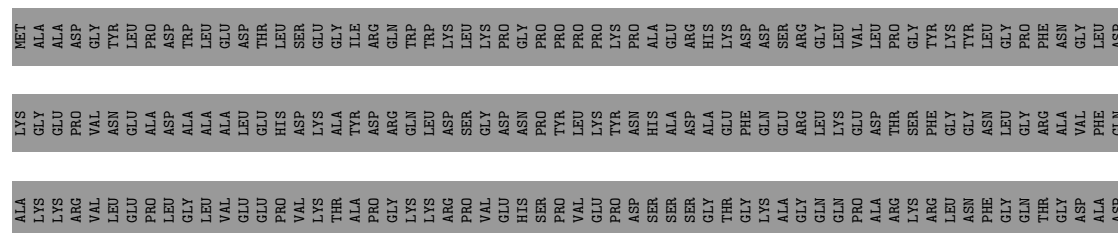


• Molecule 1: Capsid protein VP1

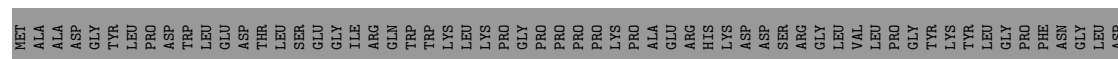
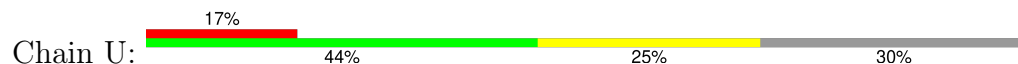


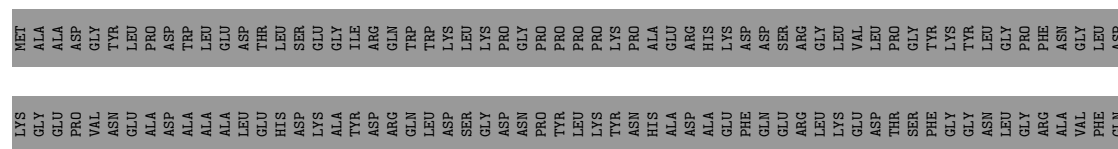
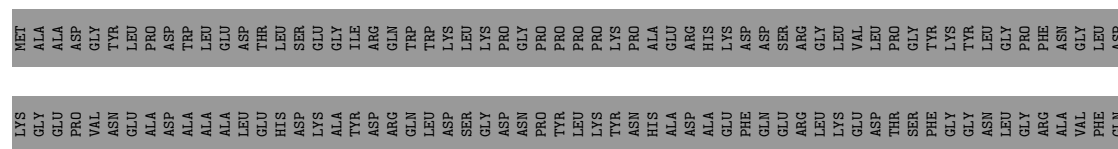


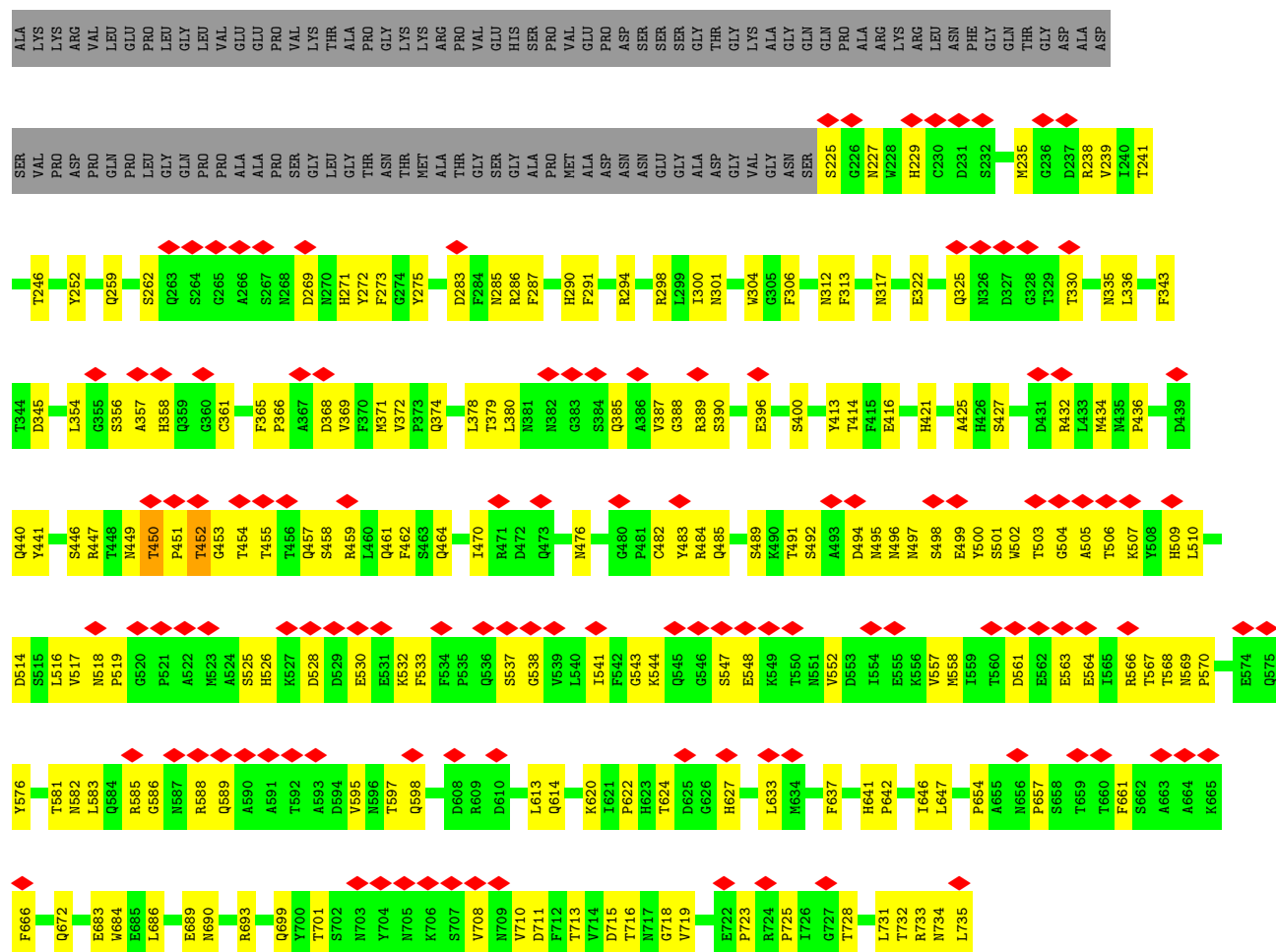
• Molecule 1: Capsid protein VP1



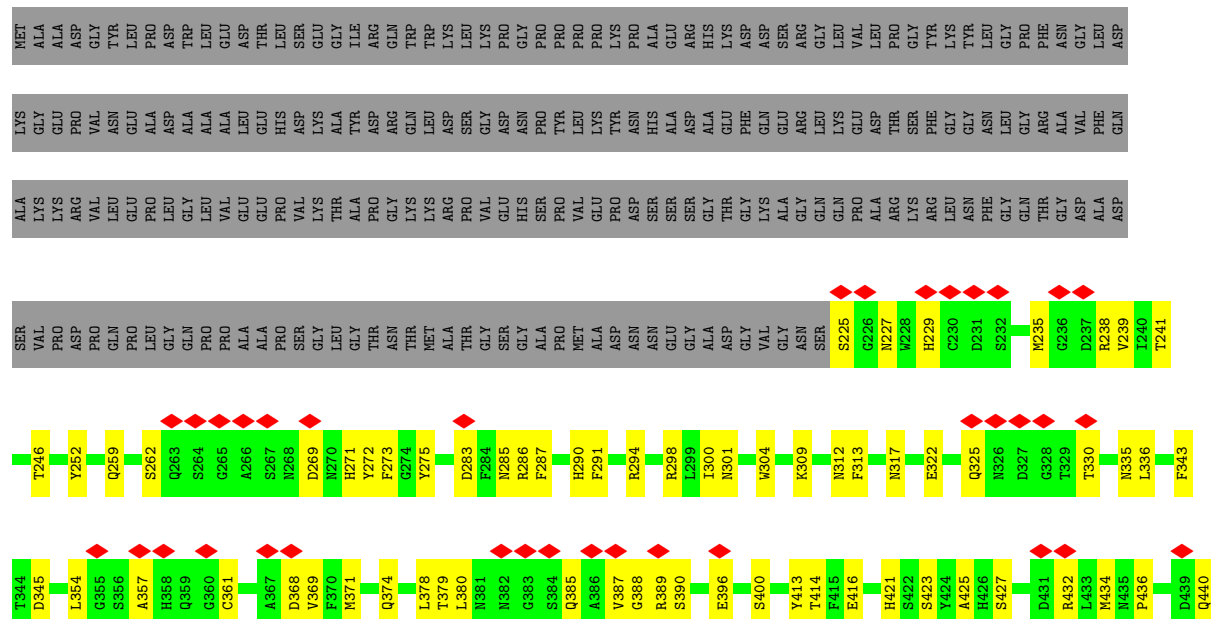
• Molecule 1: Capsid protein VP1

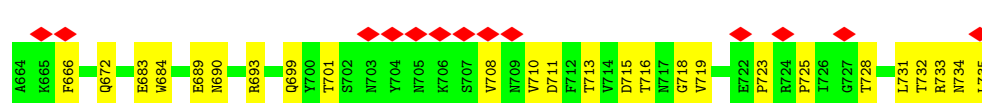






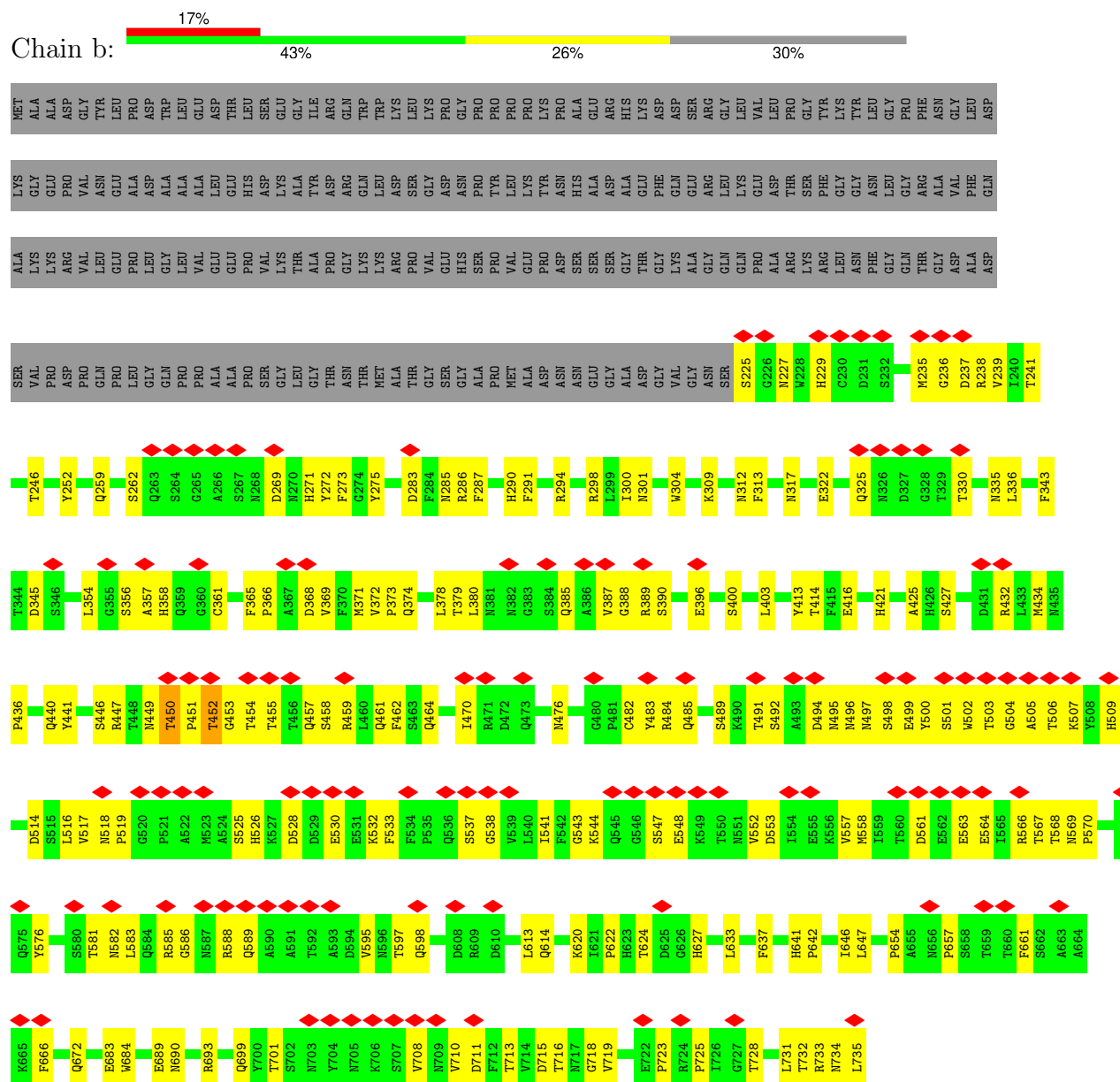
• Molecule 1: Capsid protein VP1





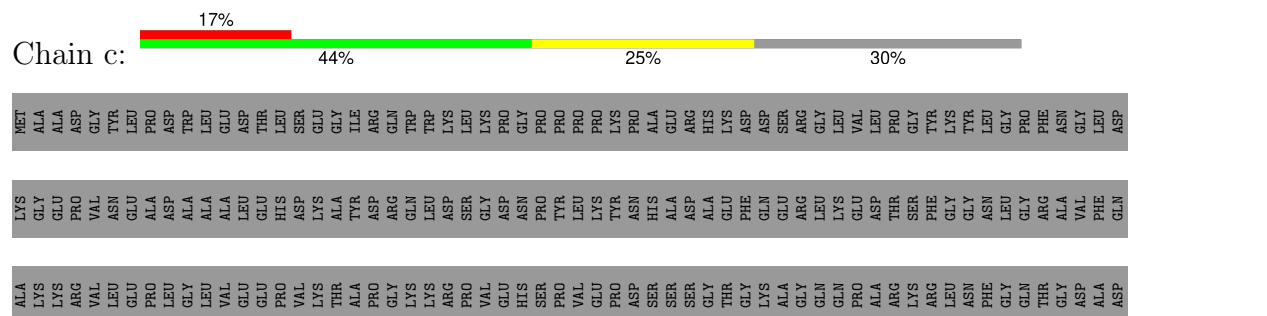
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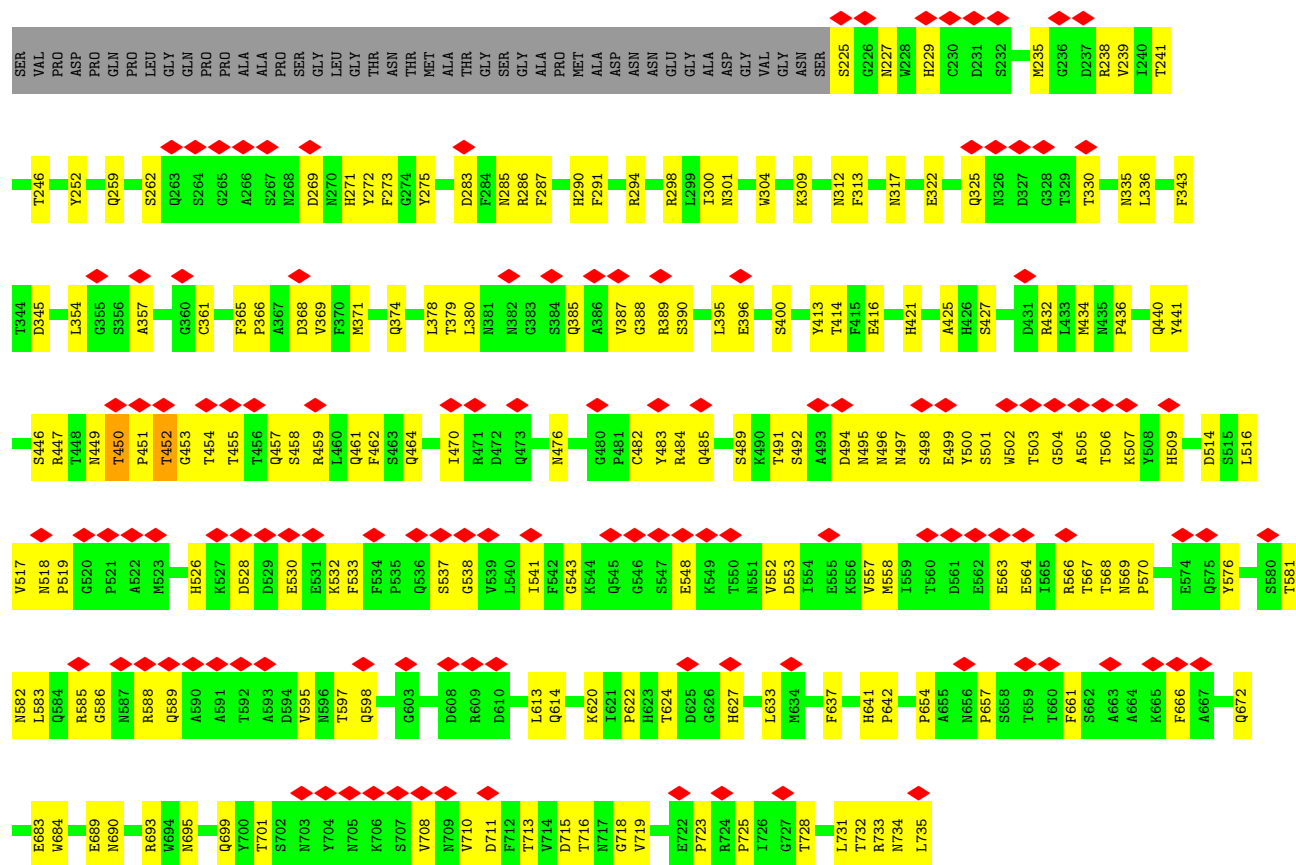
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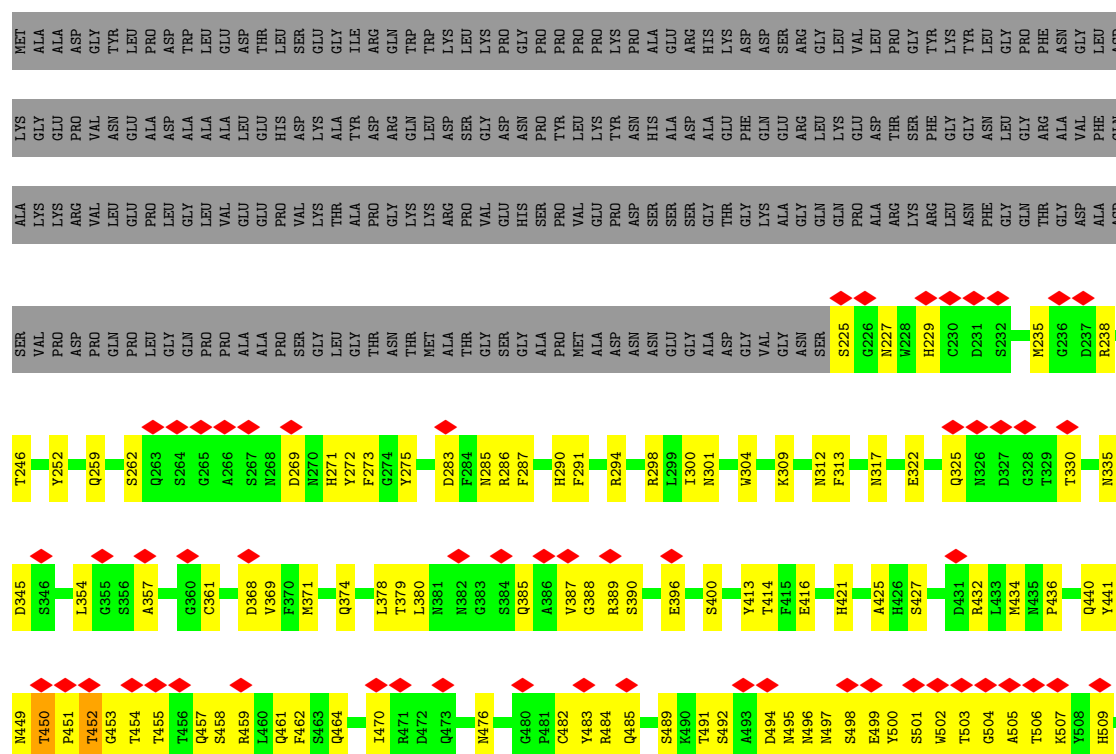
• Molecule 1: Capsid protein VP1

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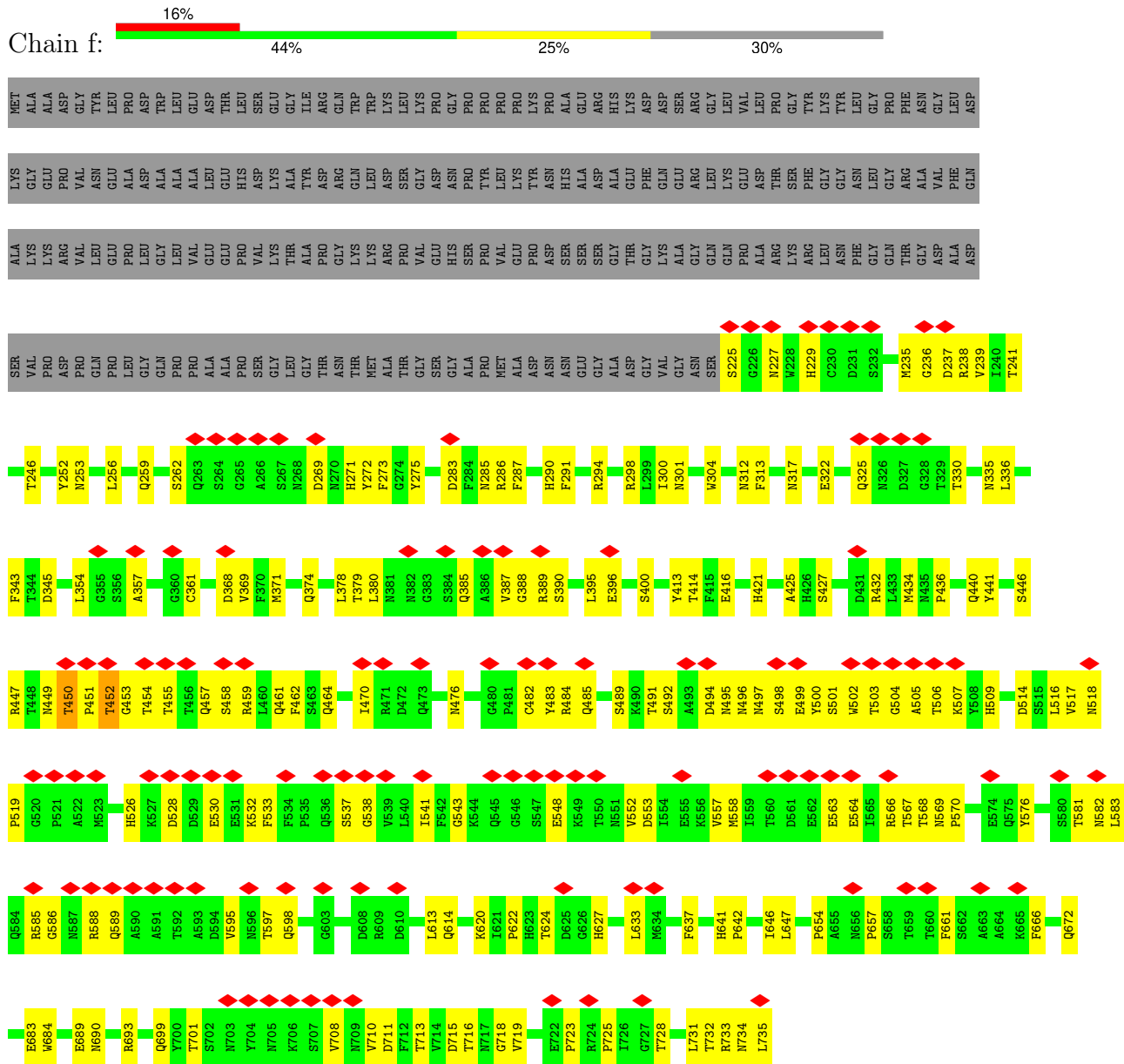




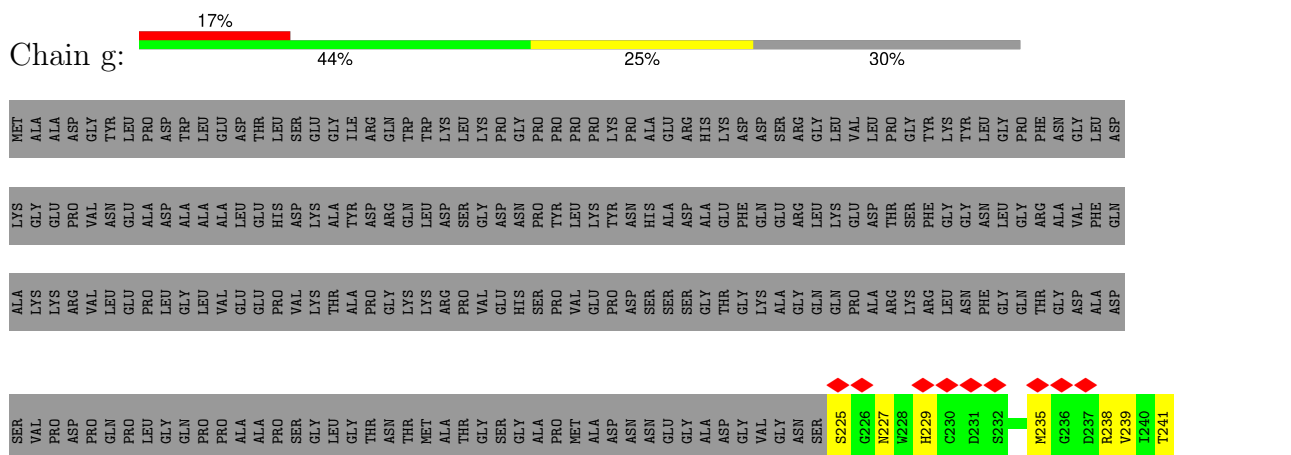
• Molecule 1: Capsid protein VP1

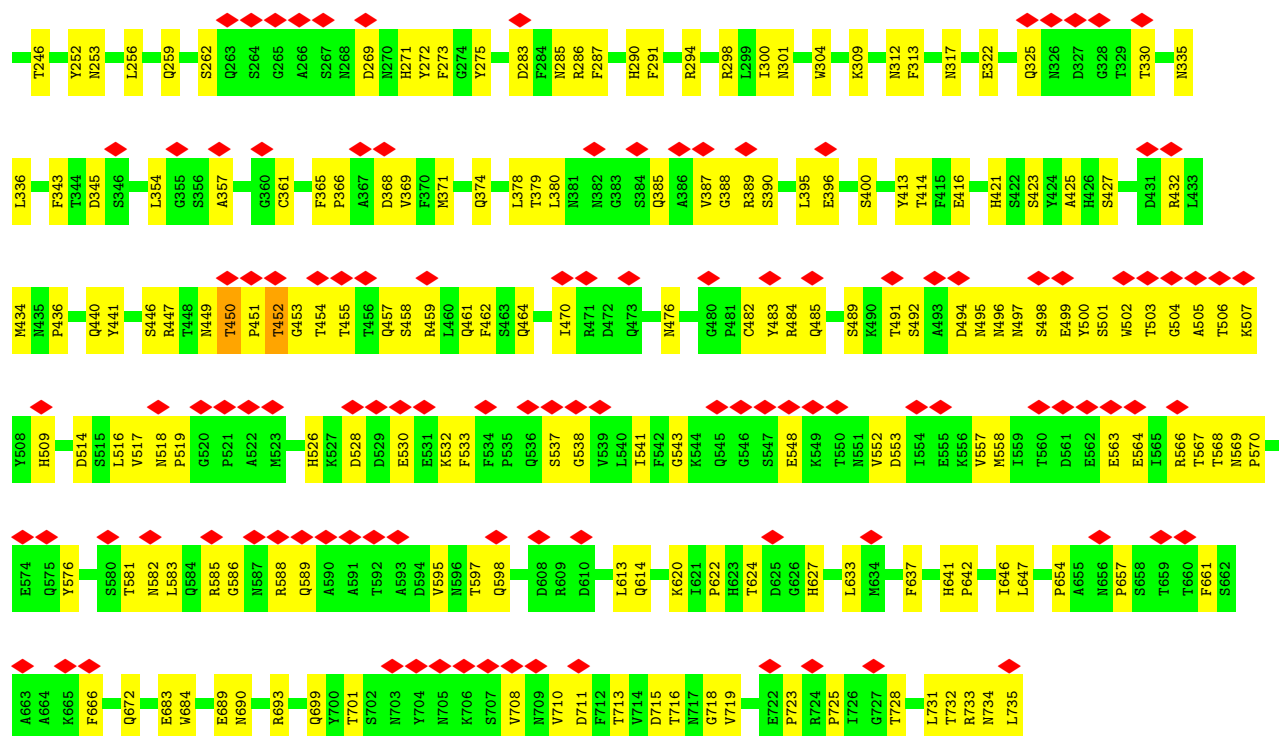




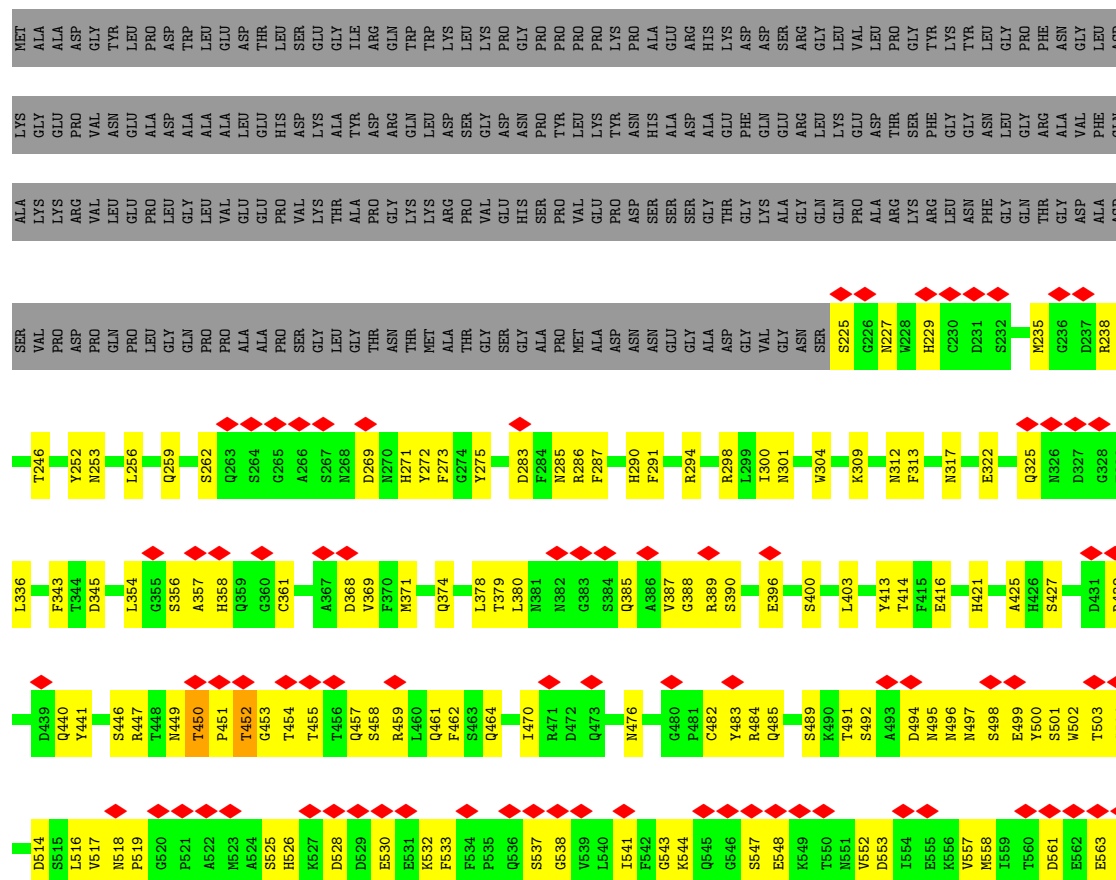


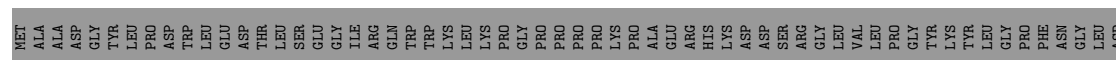
- Molecule 1: Capsid protein VP1

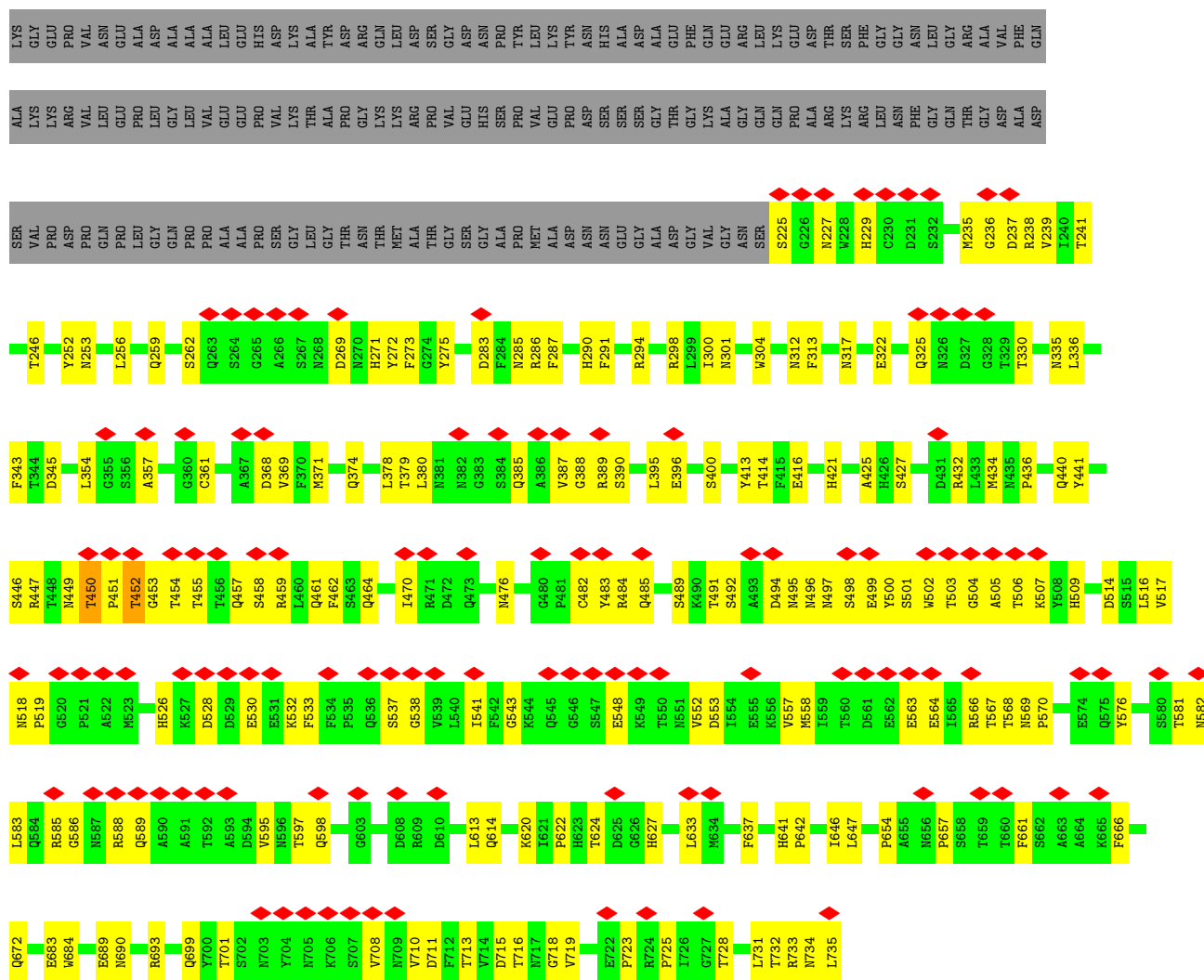




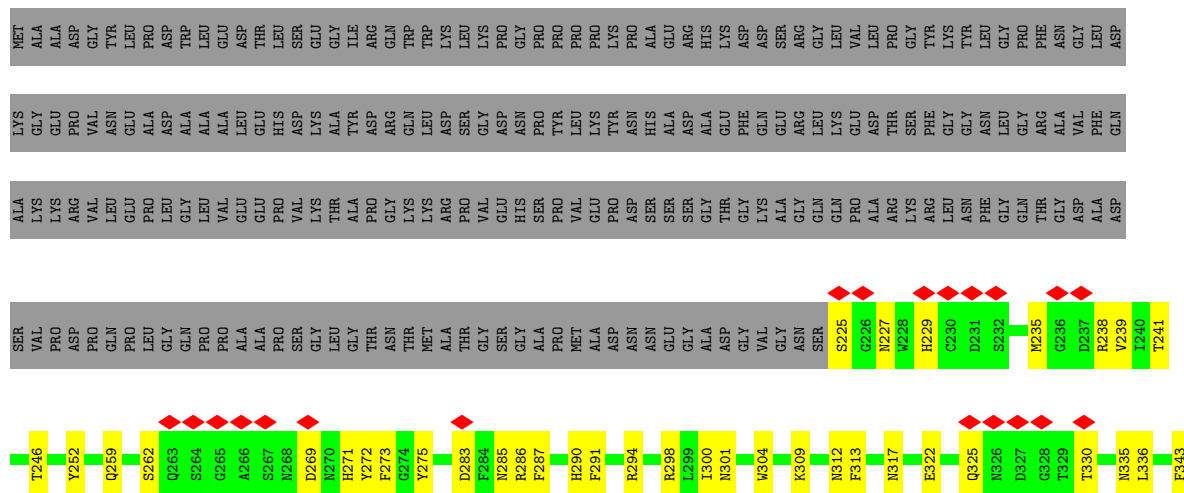
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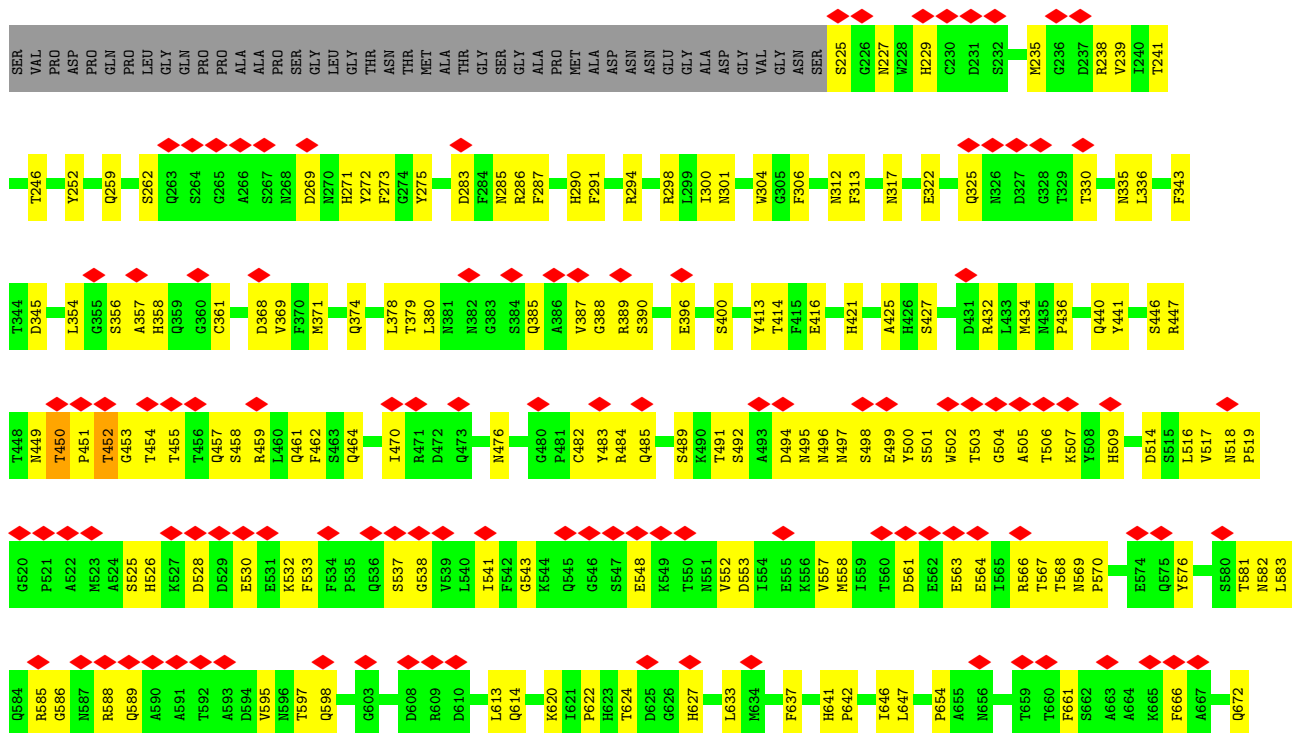


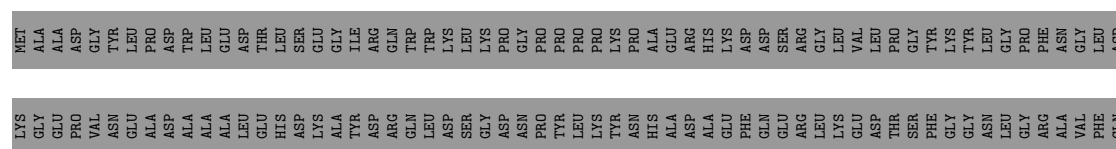


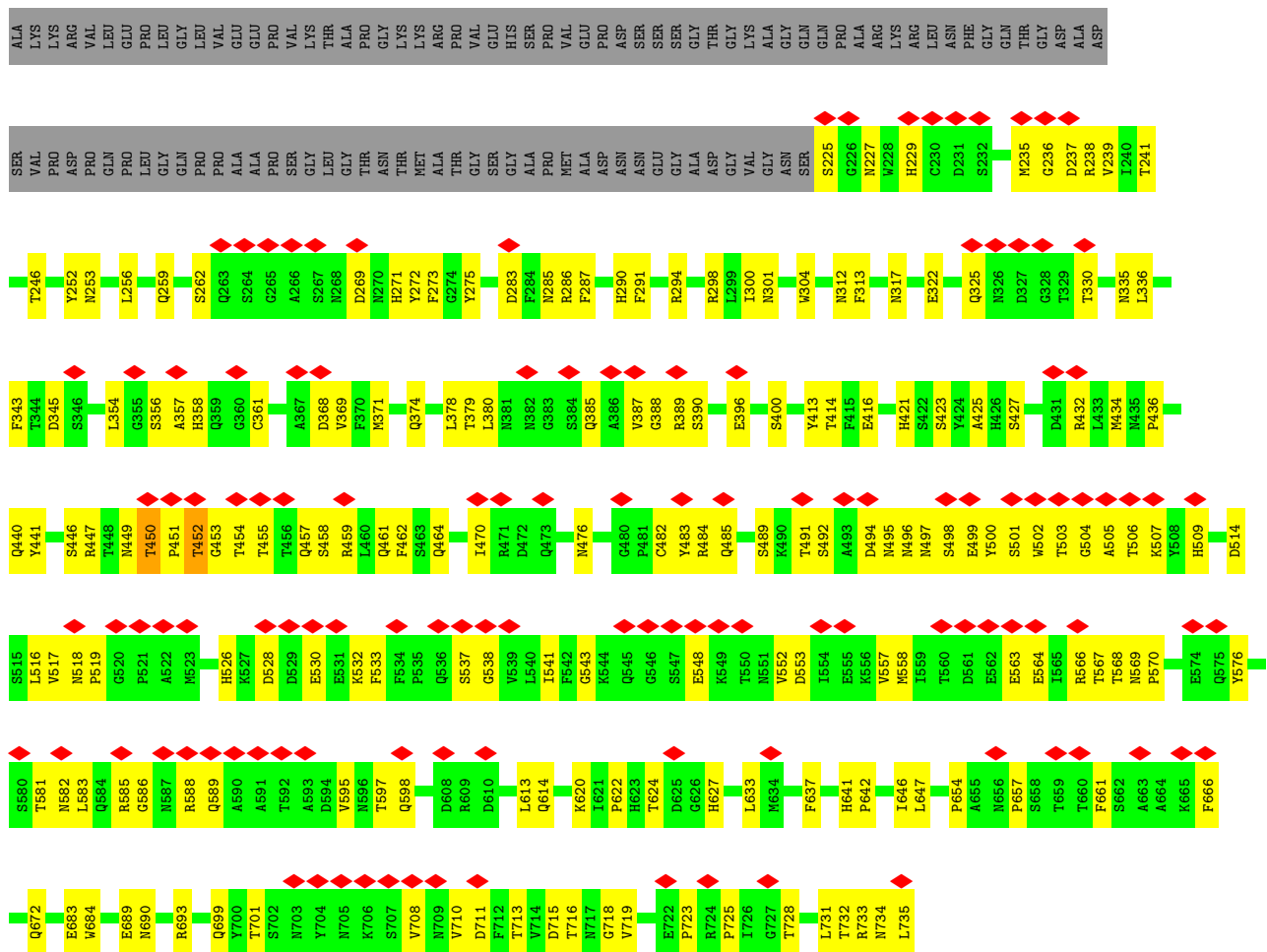


• Molecule 1: Capsid protein VP1

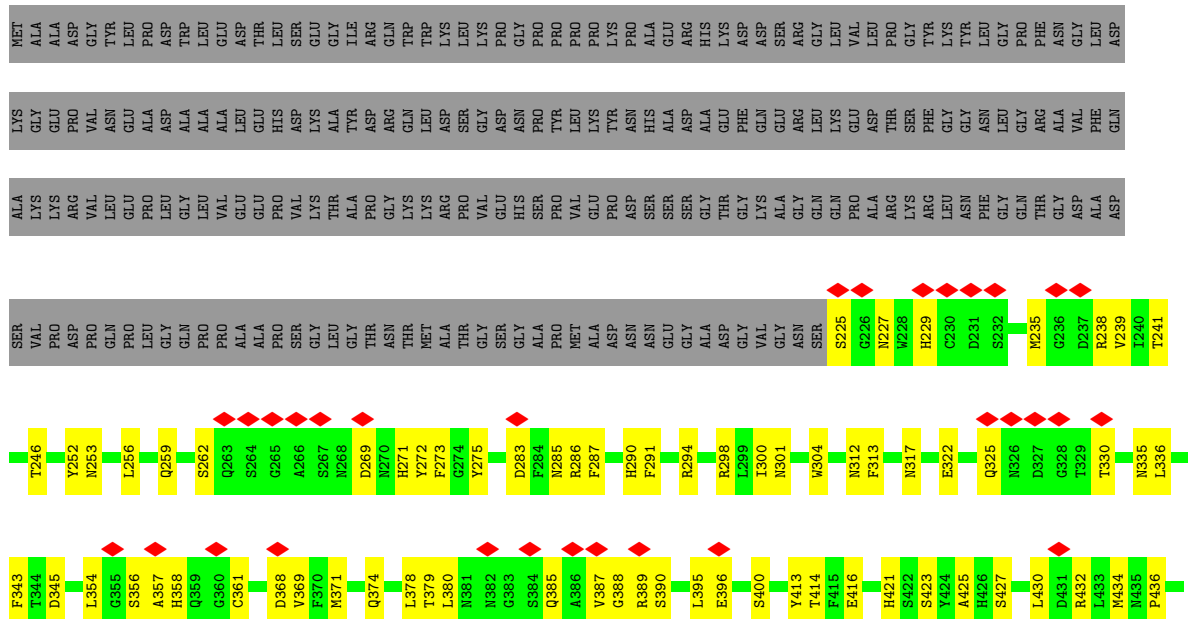


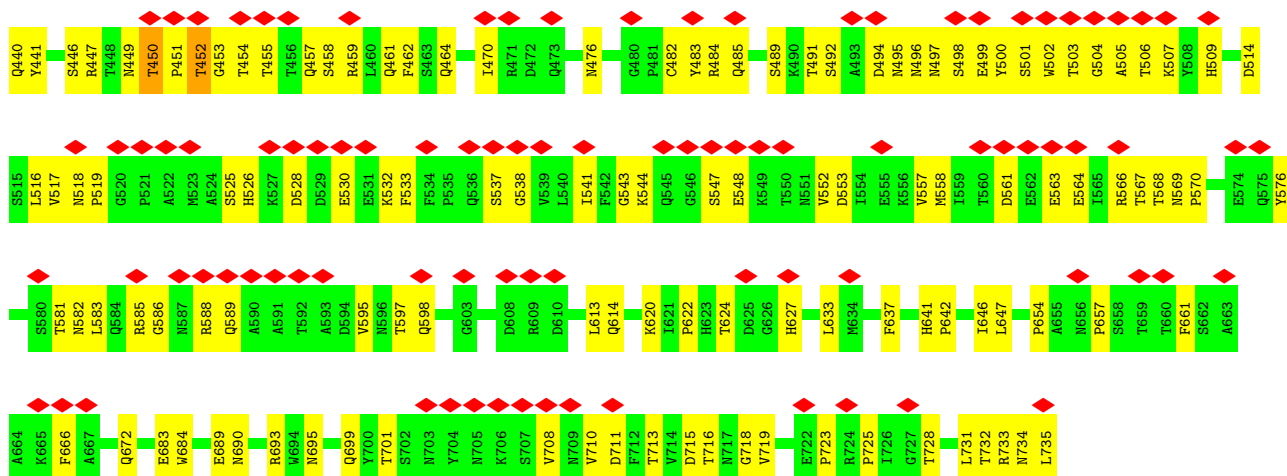




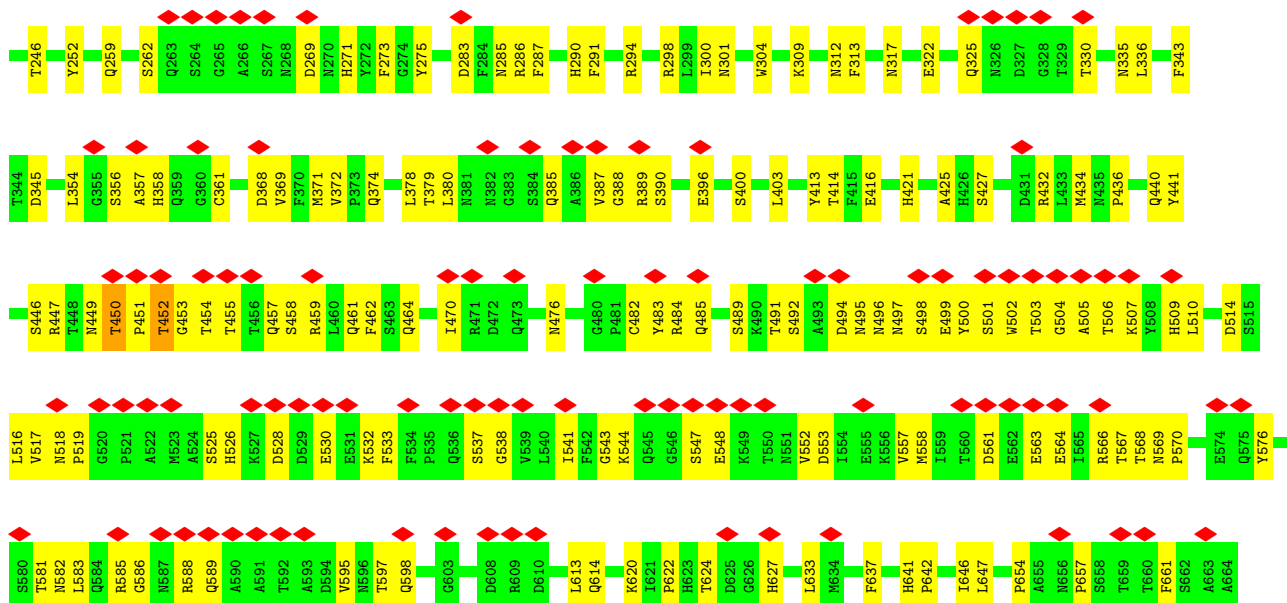
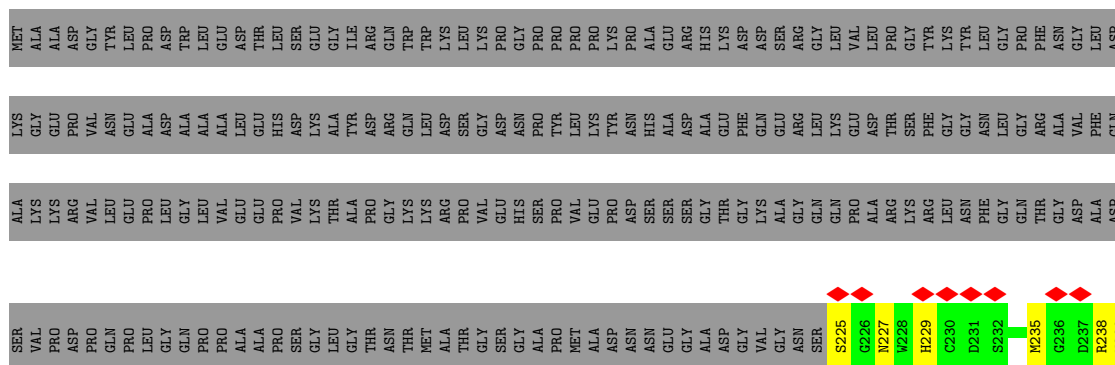


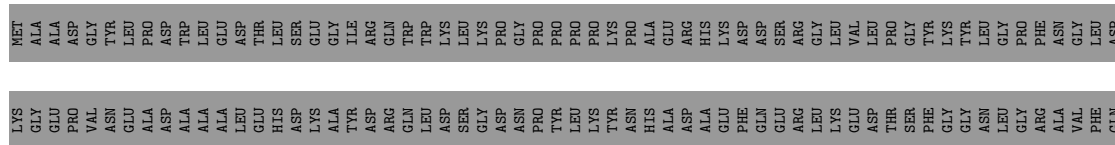
- Molecule 1: Capsid protein VP1

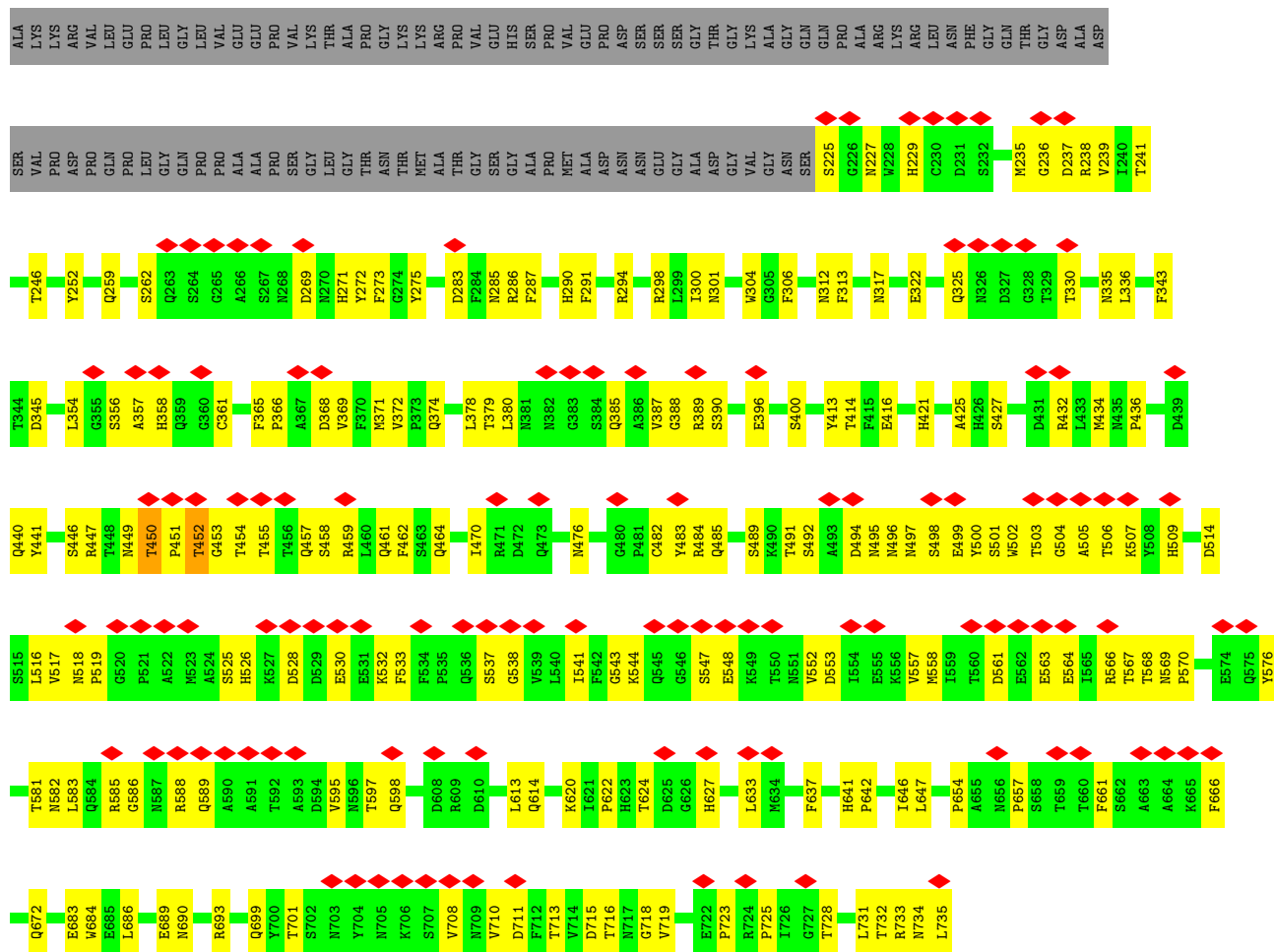




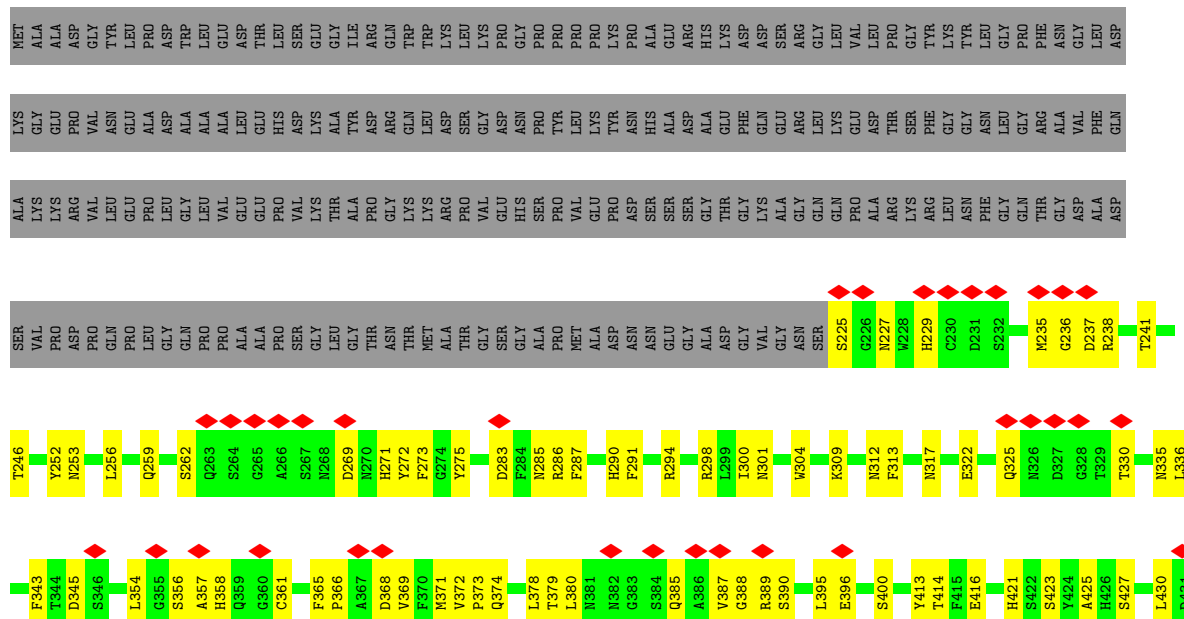
• Molecule 1: Capsid protein VP1

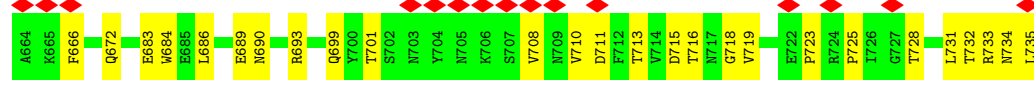






• Molecule 1: Capsid protein VP1

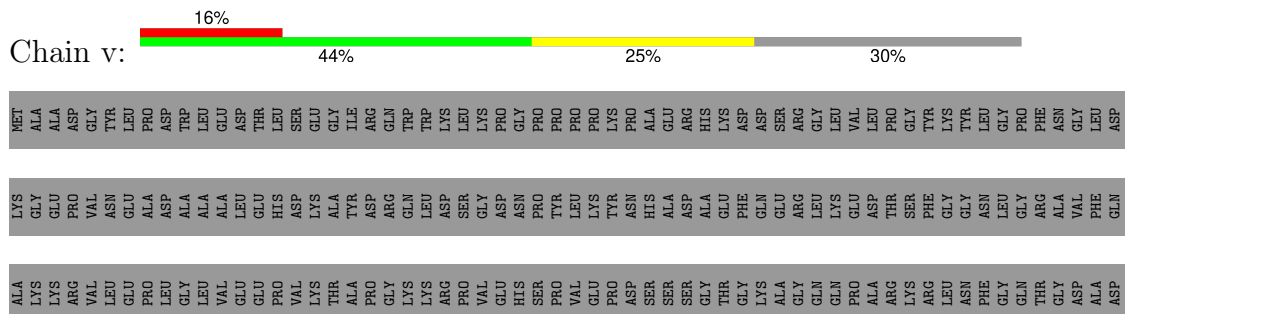


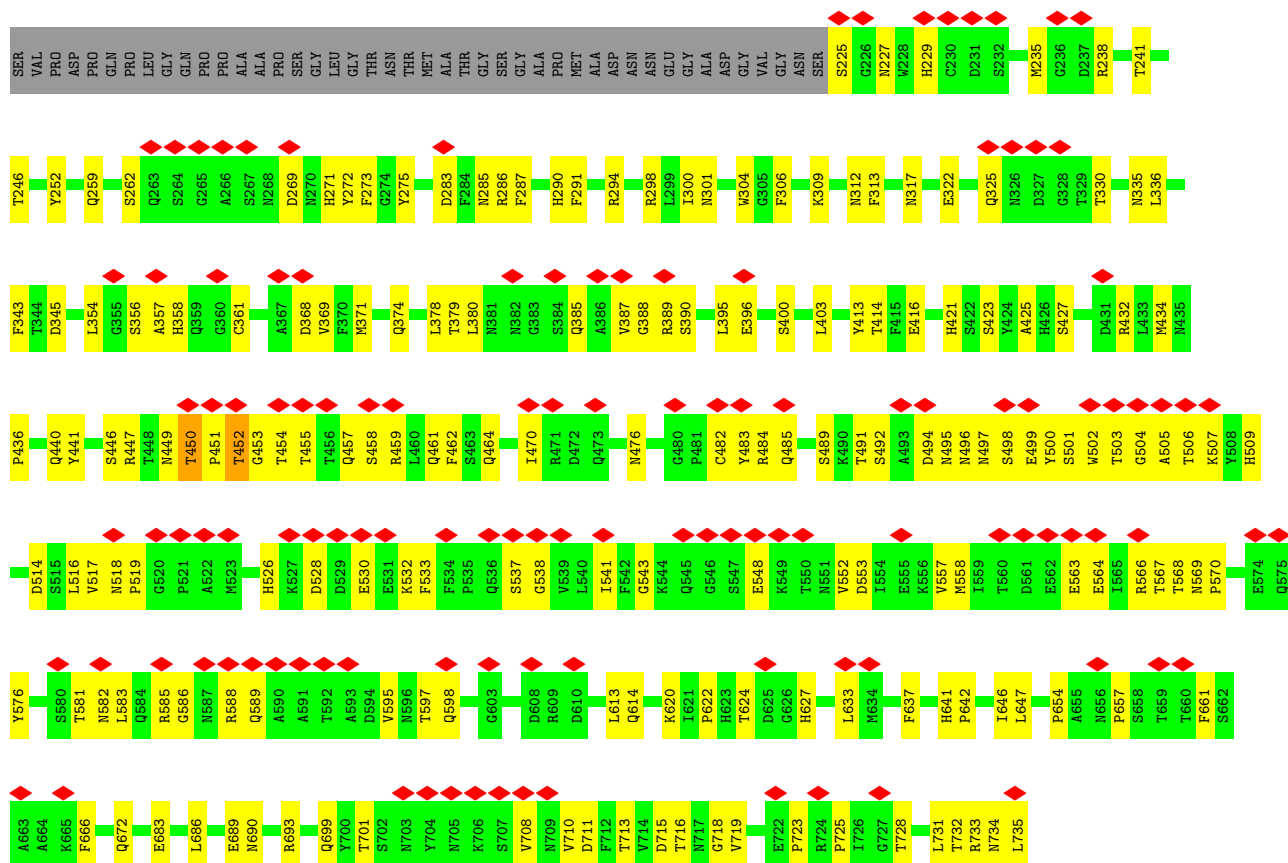


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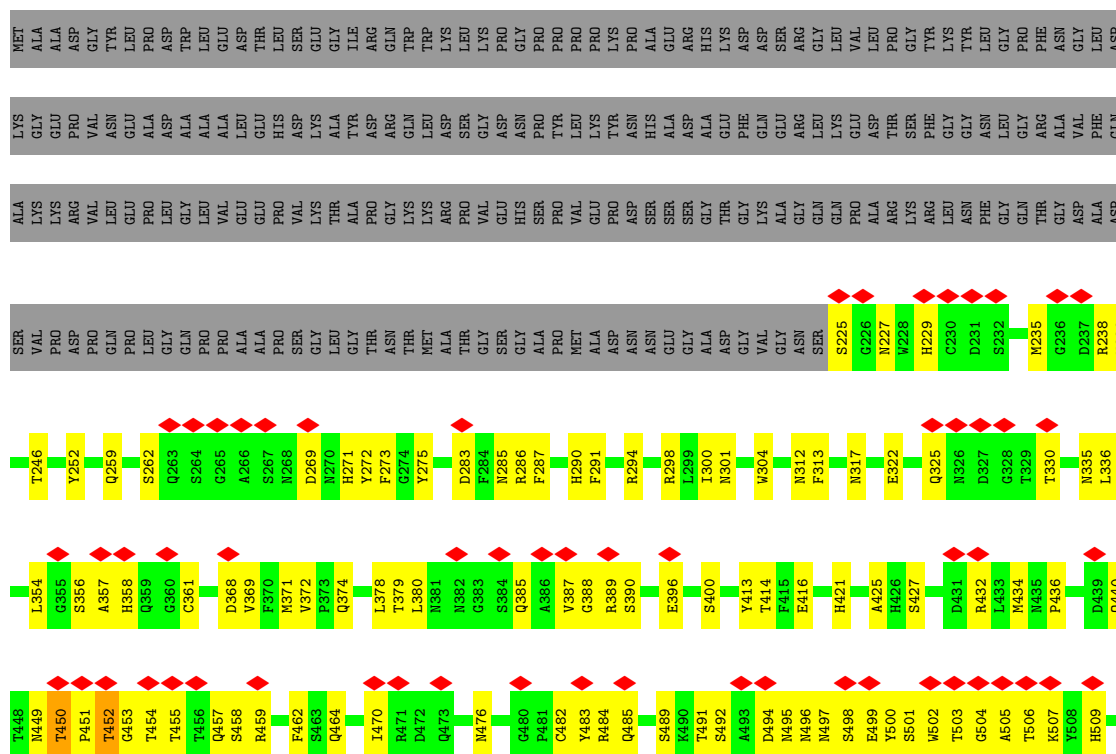


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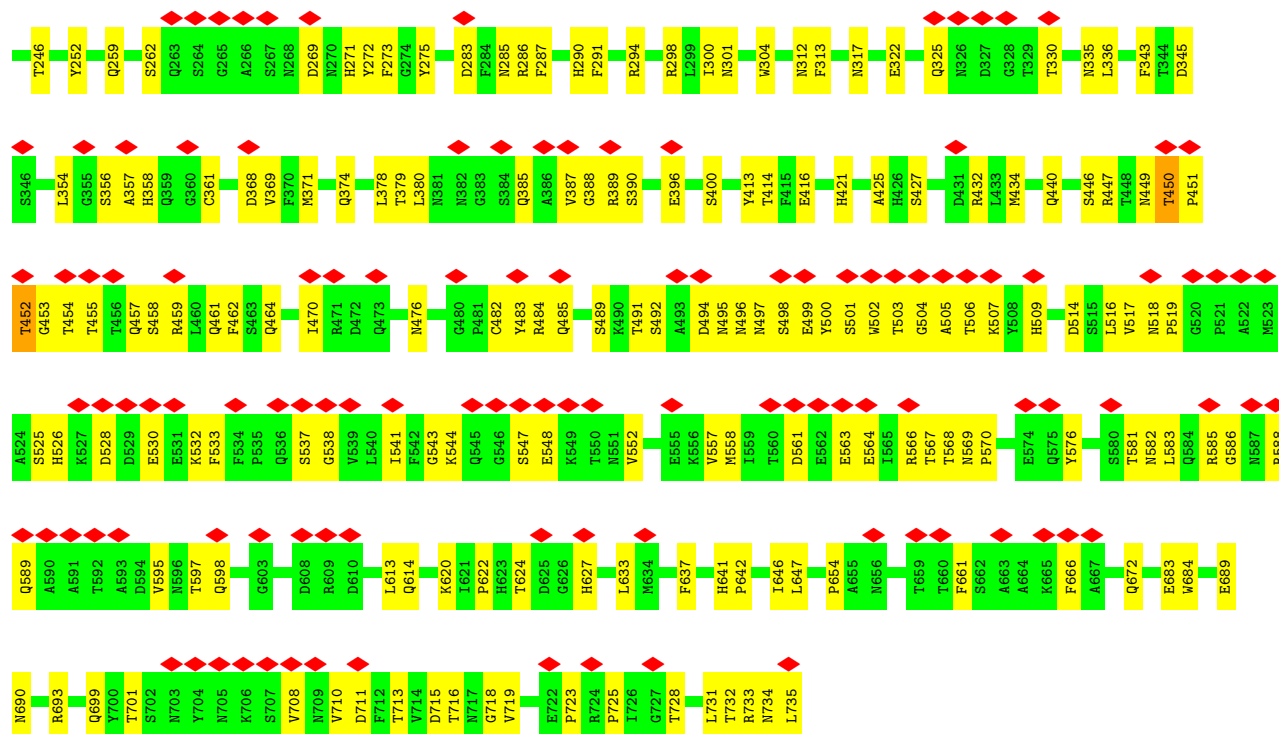


• Molecule 1: Capsid protein VP1

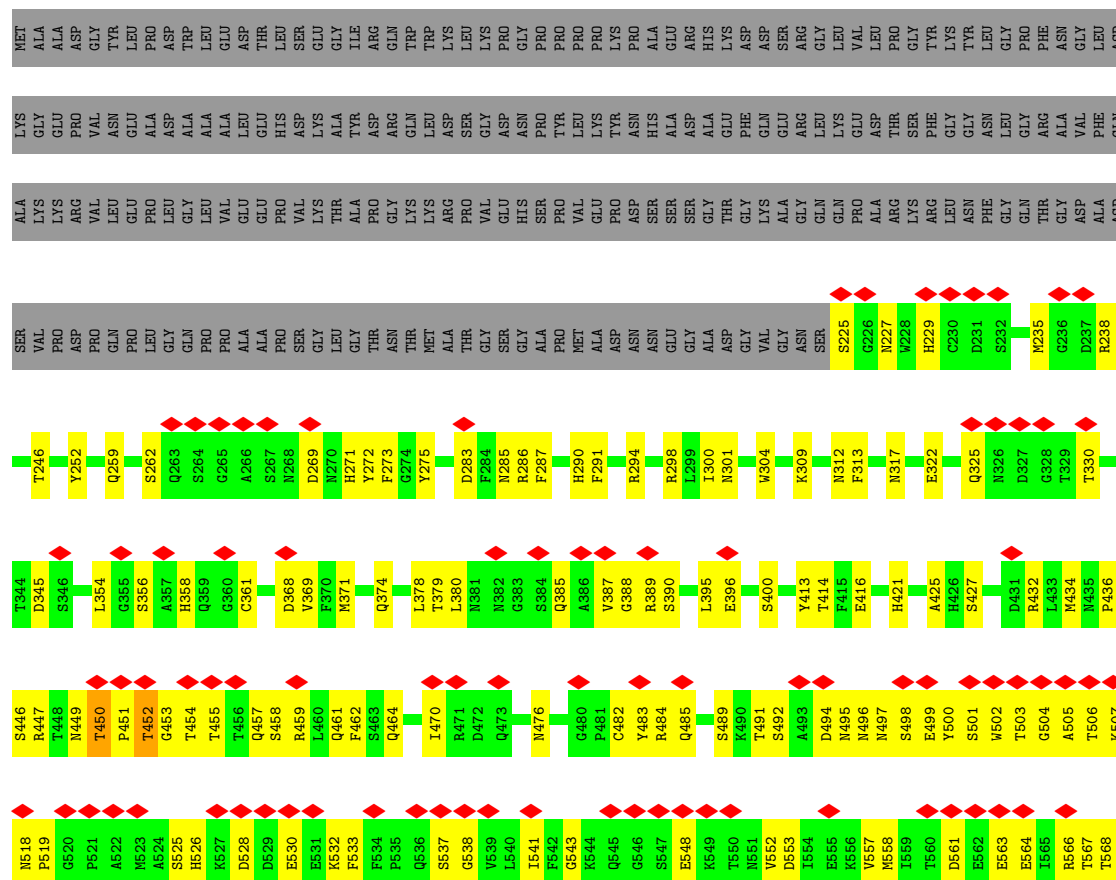


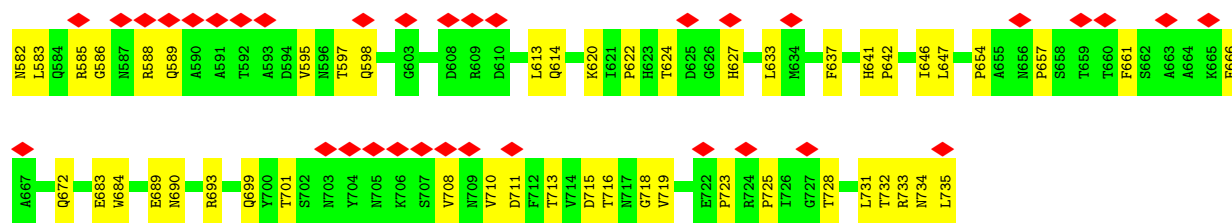




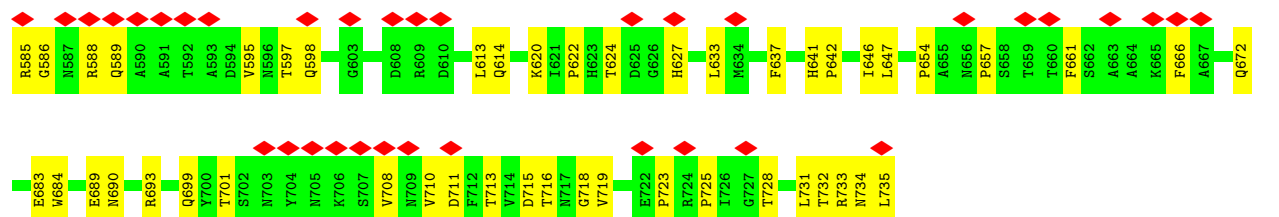
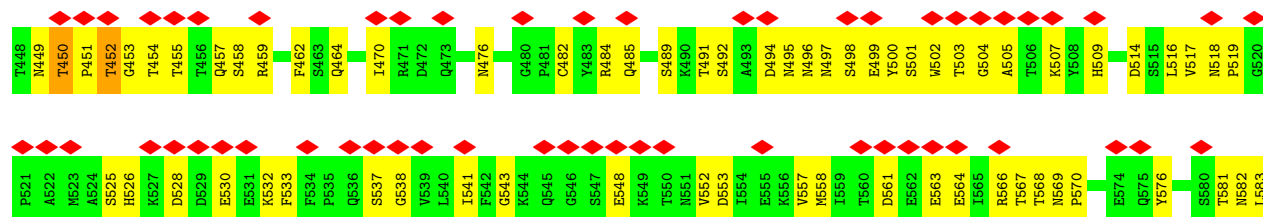
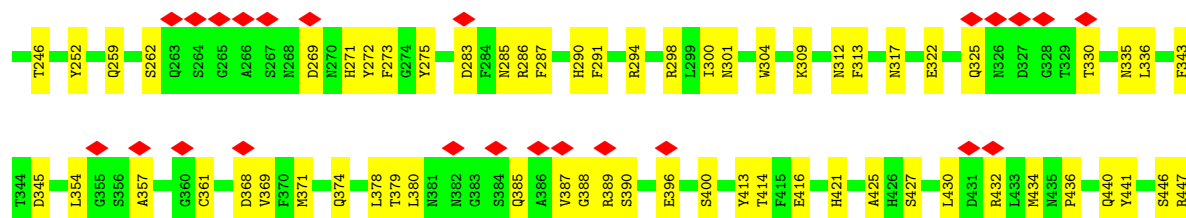
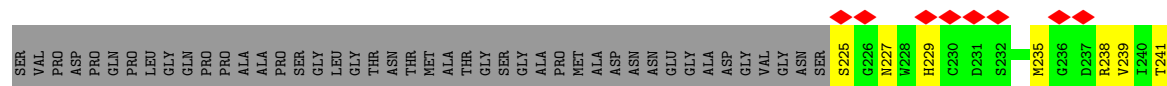
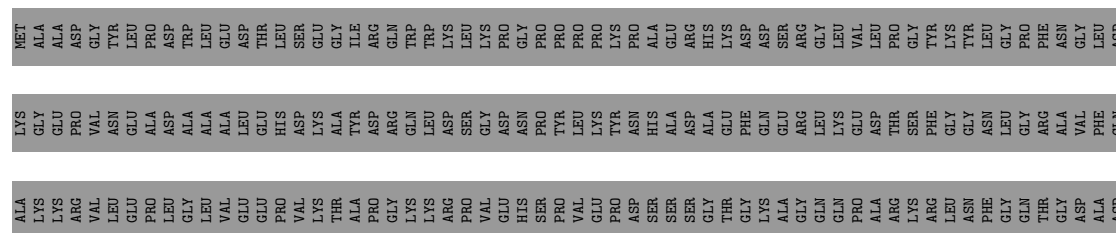


• Molecule 1: Capsid protein VP1

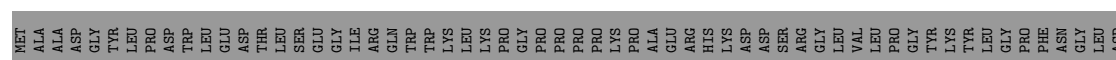
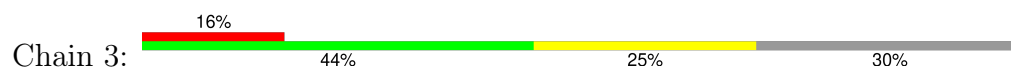


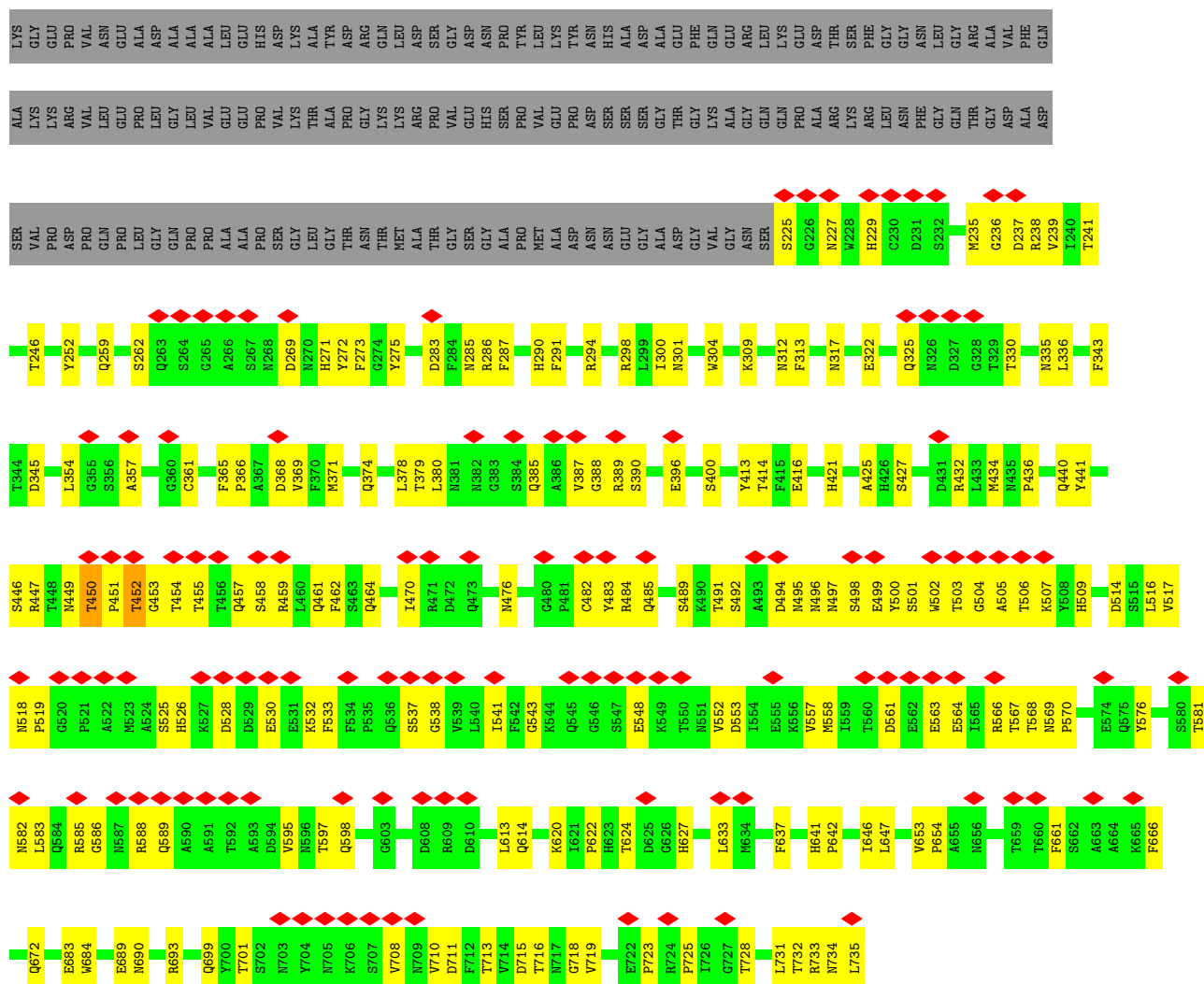


• Molecule 1: Capsid protein VP1

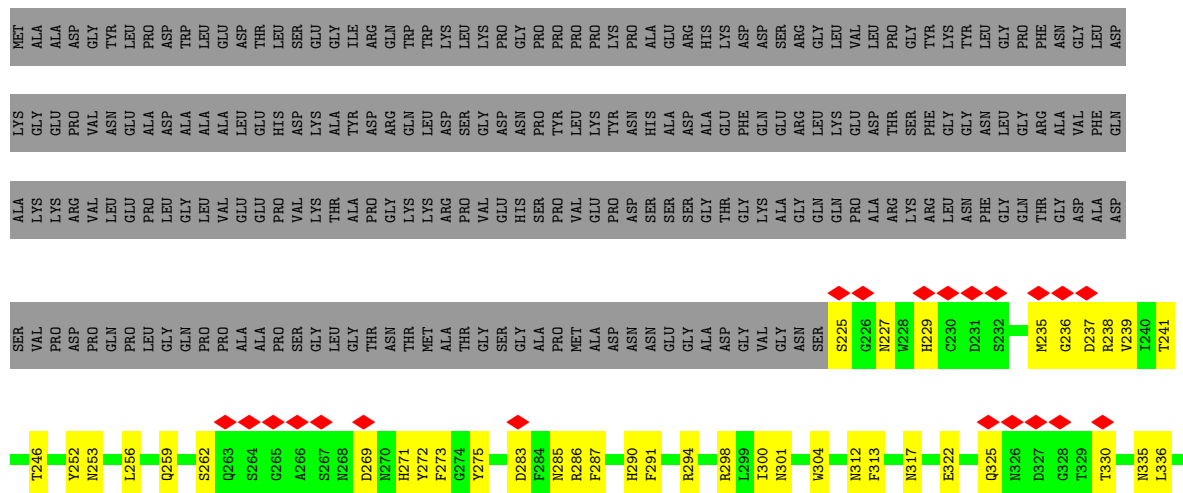


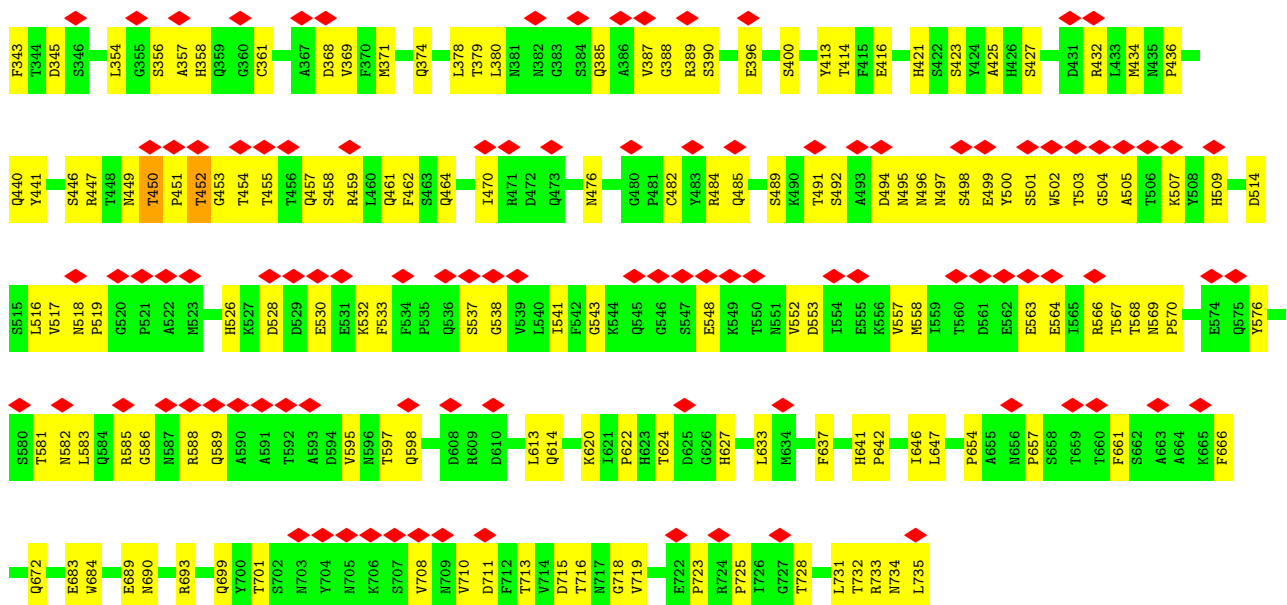
• Molecule 1: Capsid protein VP1



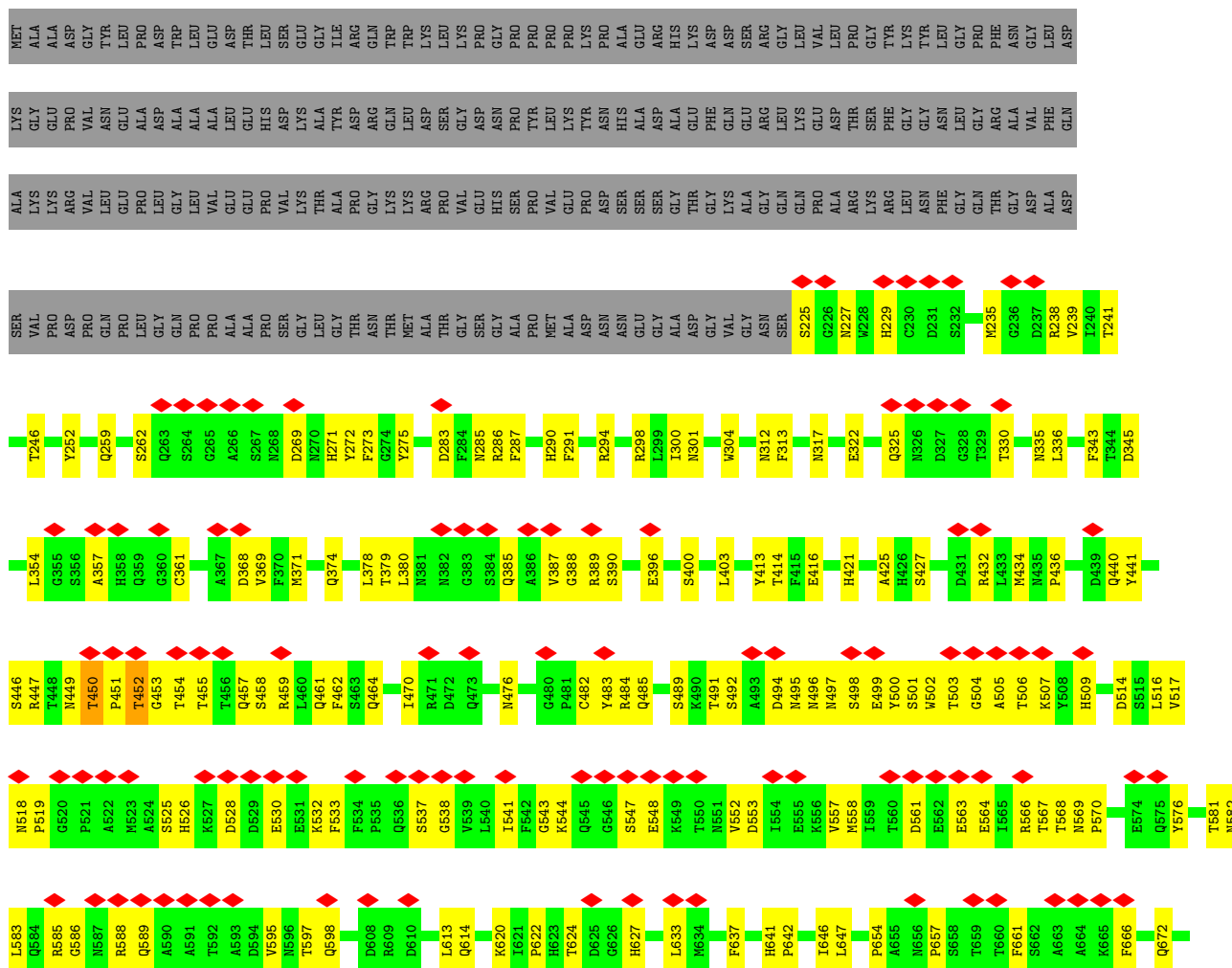
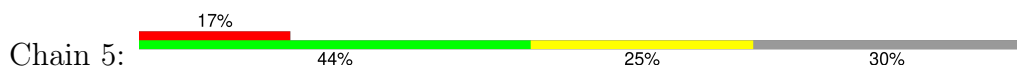


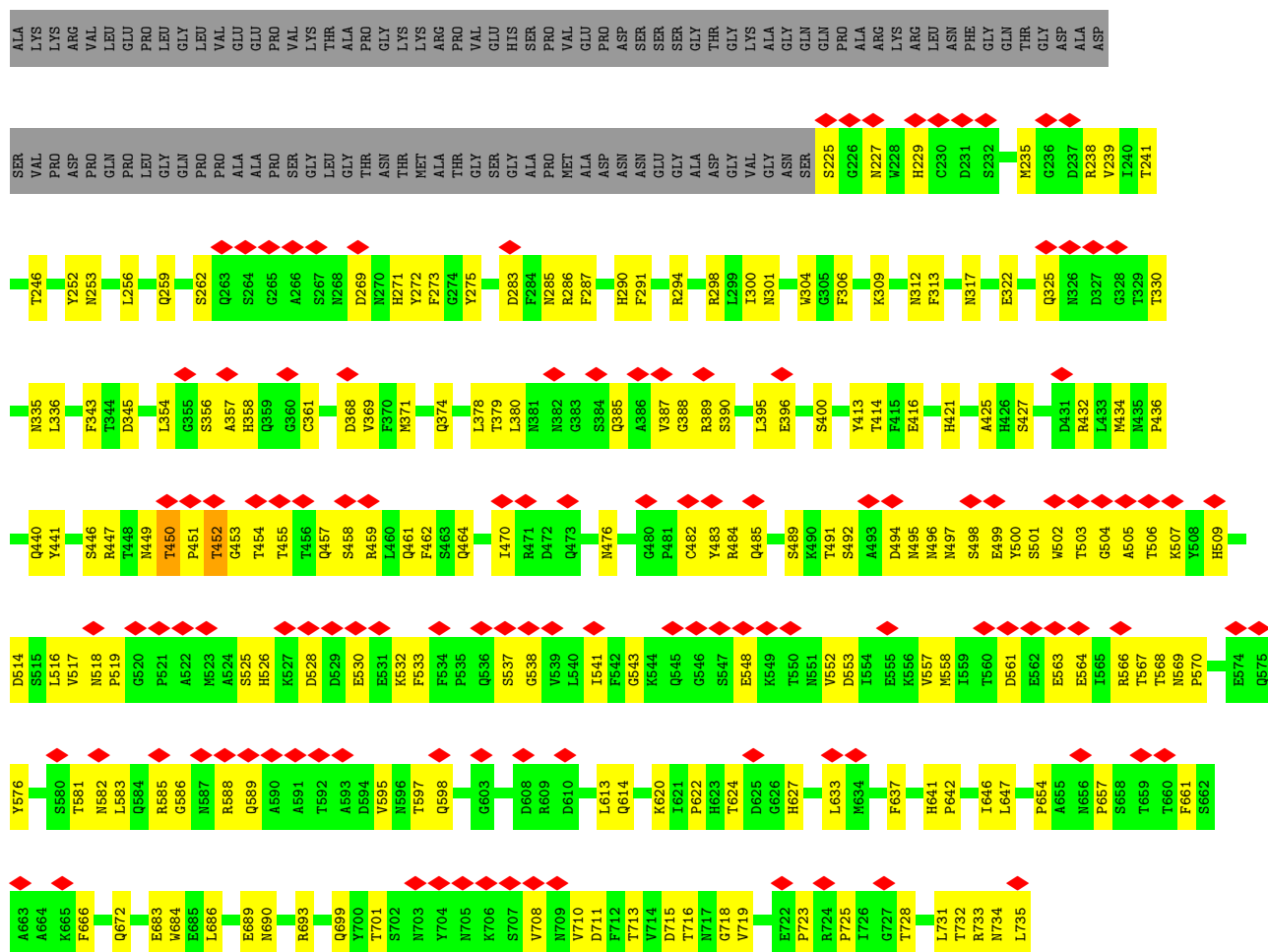
• Molecule 1: Capsid protein VP1



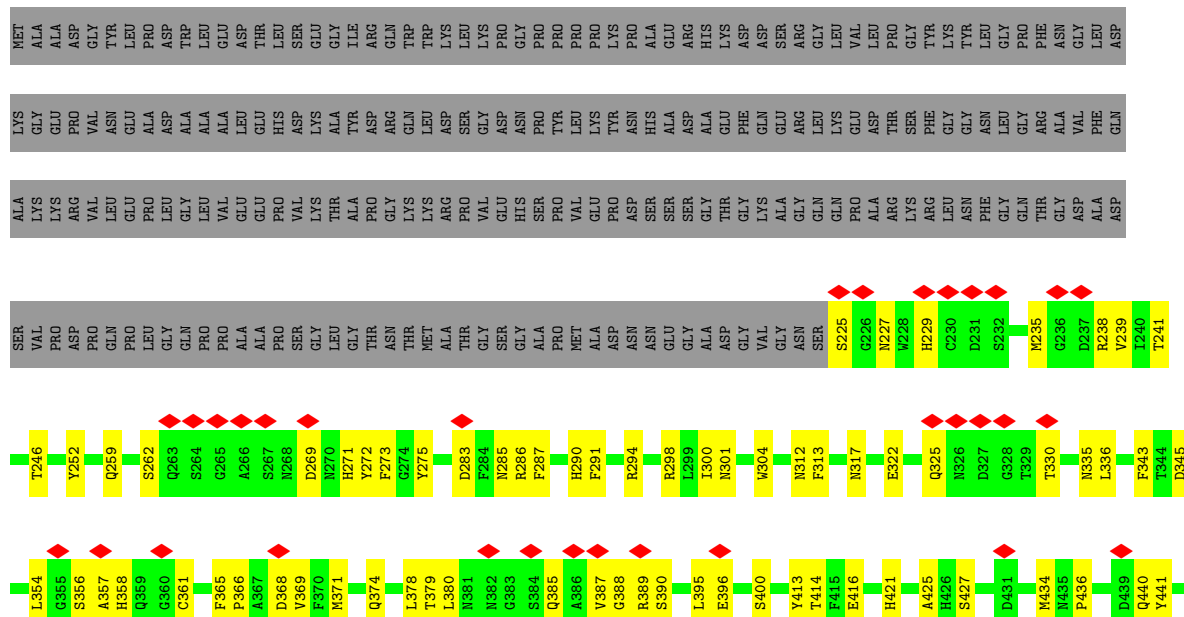
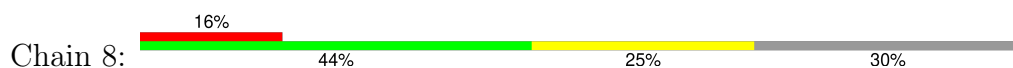


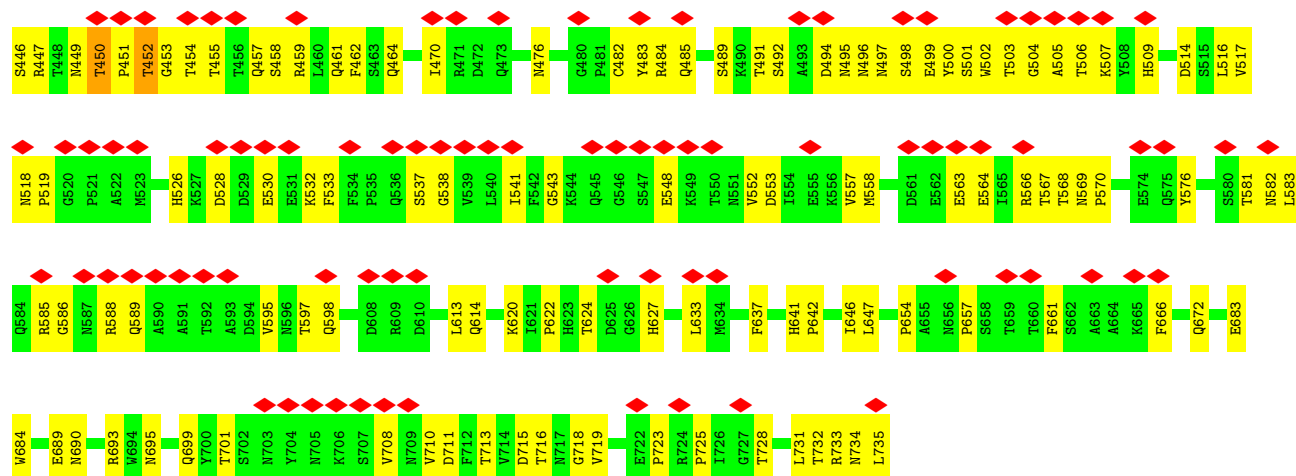
- Molecule 1: Capsid protein VP1





• Molecule 1: Capsid protein VP1





4 Experimental information

Property	Value	Source
EM reconstruction method	SINGLE PARTICLE	Depositor
Imposed symmetry	POINT, Not provided	
Number of particles used	23039	Depositor
Resolution determination method	FSC 0.5 CUT-OFF	Depositor
CTF correction method	PHASE FLIPPING ONLY	Depositor
Microscope	FEI POLARA 300	Depositor
Voltage (kV)	300	Depositor
Electron dose ($e^-/\text{\AA}^2$)	20	Depositor
Minimum defocus (nm)	1100	Depositor
Maximum defocus (nm)	3700	Depositor
Magnification	56924	Depositor
Image detector	KODAK SO-163 FILM	Depositor
Maximum map value	14.791	Depositor
Minimum map value	-15.532	Depositor
Average map value	-0.000	Depositor
Map value standard deviation	1.000	Depositor
Recommended contour level	2.9	Depositor
Map size ($\text{\AA}$)	361.9, 361.9, 361.9	wwPDB
Map dimensions	329, 329, 329	wwPDB
Map angles ($^\circ$)	90.0, 90.0, 90.0	wwPDB
Pixel spacing ($\text{\AA}$)	1.1, 1.1, 1.1	Depositor

5 Model quality ⓘ

5.1 Standard geometry ⓘ

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

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	# $ Z > 5$	RMSZ	# $ Z > 5$
1	1	0.47	0/4229	0.66	3/5767 (0.1%)
1	2	0.47	0/4229	0.66	3/5767 (0.1%)
1	3	0.47	0/4229	0.66	3/5767 (0.1%)
1	4	0.47	0/4229	0.66	3/5767 (0.1%)
1	5	0.47	0/4229	0.66	3/5767 (0.1%)
1	6	0.47	0/4229	0.66	3/5767 (0.1%)
1	7	0.47	0/4229	0.66	3/5767 (0.1%)
1	8	0.47	0/4229	0.66	3/5767 (0.1%)
1	A	0.46	0/4229	0.66	3/5767 (0.1%)
1	B	0.47	0/4229	0.66	3/5767 (0.1%)
1	C	0.47	0/4229	0.66	3/5767 (0.1%)
1	D	0.47	0/4229	0.66	3/5767 (0.1%)
1	E	0.47	0/4229	0.66	3/5767 (0.1%)
1	F	0.47	0/4229	0.66	3/5767 (0.1%)
1	G	0.47	0/4229	0.66	3/5767 (0.1%)
1	H	0.47	0/4229	0.66	3/5767 (0.1%)
1	I	0.47	0/4229	0.66	3/5767 (0.1%)
1	J	0.47	0/4229	0.66	3/5767 (0.1%)
1	K	0.47	0/4229	0.66	3/5767 (0.1%)
1	L	0.46	0/4229	0.66	3/5767 (0.1%)
1	M	0.47	0/4229	0.66	3/5767 (0.1%)
1	N	0.47	0/4229	0.66	3/5767 (0.1%)
1	O	0.47	0/4229	0.66	3/5767 (0.1%)
1	P	0.46	0/4229	0.66	3/5767 (0.1%)
1	Q	0.47	0/4229	0.66	3/5767 (0.1%)
1	R	0.47	0/4229	0.66	3/5767 (0.1%)
1	S	0.47	0/4229	0.66	3/5767 (0.1%)
1	T	0.46	0/4229	0.66	3/5767 (0.1%)
1	U	0.47	0/4229	0.66	3/5767 (0.1%)
1	V	0.47	0/4229	0.66	3/5767 (0.1%)
1	W	0.47	0/4229	0.66	3/5767 (0.1%)
1	X	0.47	0/4229	0.66	3/5767 (0.1%)
1	Y	0.47	0/4229	0.66	3/5767 (0.1%)
1	Z	0.47	0/4229	0.66	3/5767 (0.1%)

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	# Z >5	RMSZ	# Z >5
1	a	0.47	0/4229	0.66	3/5767 (0.1%)
1	b	0.47	0/4229	0.66	3/5767 (0.1%)
1	c	0.47	0/4229	0.66	3/5767 (0.1%)
1	d	0.47	0/4229	0.66	3/5767 (0.1%)
1	e	0.47	0/4229	0.66	3/5767 (0.1%)
1	f	0.47	0/4229	0.66	3/5767 (0.1%)
1	g	0.47	0/4229	0.66	3/5767 (0.1%)
1	h	0.47	0/4229	0.66	3/5767 (0.1%)
1	i	0.46	0/4229	0.66	3/5767 (0.1%)
1	j	0.47	0/4229	0.66	3/5767 (0.1%)
1	k	0.47	0/4229	0.66	3/5767 (0.1%)
1	l	0.47	0/4229	0.66	3/5767 (0.1%)
1	m	0.47	0/4229	0.66	3/5767 (0.1%)
1	n	0.47	0/4229	0.66	3/5767 (0.1%)
1	o	0.47	0/4229	0.66	3/5767 (0.1%)
1	p	0.46	0/4229	0.66	3/5767 (0.1%)
1	q	0.47	0/4229	0.66	3/5767 (0.1%)
1	r	0.46	0/4229	0.66	3/5767 (0.1%)
1	s	0.47	0/4229	0.66	3/5767 (0.1%)
1	t	0.47	0/4229	0.66	3/5767 (0.1%)
1	u	0.47	0/4229	0.66	3/5767 (0.1%)
1	v	0.47	0/4229	0.66	3/5767 (0.1%)
1	w	0.47	0/4229	0.66	3/5767 (0.1%)
1	x	0.47	0/4229	0.65	3/5767 (0.1%)
1	y	0.47	0/4229	0.66	3/5767 (0.1%)
1	z	0.47	0/4229	0.66	3/5767 (0.1%)
All	All	0.47	0/253740	0.66	180/346020 (0.1%)

There are no bond length outliers.

All (180) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	c	450	THR	CA-C-N	8.35	147.03	127.00
1	c	450	THR	C-N-CA	8.35	147.03	127.00
1	V	450	THR	CA-C-N	8.35	147.03	127.00
1	V	450	THR	C-N-CA	8.35	147.03	127.00
1	2	450	THR	CA-C-N	8.34	147.01	127.00
1	2	450	THR	C-N-CA	8.34	147.01	127.00
1	C	450	THR	CA-C-N	8.33	147.00	127.00
1	C	450	THR	C-N-CA	8.33	147.00	127.00
1	T	450	THR	CA-C-N	8.33	147.00	127.00
1	T	450	THR	C-N-CA	8.33	147.00	127.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	h	450	THR	CA-C-N	8.33	147.00	127.00
1	h	450	THR	C-N-CA	8.33	147.00	127.00
1	z	450	THR	CA-C-N	8.33	147.00	127.00
1	z	450	THR	C-N-CA	8.33	147.00	127.00
1	J	450	THR	CA-C-N	8.33	147.00	127.00
1	J	450	THR	C-N-CA	8.33	147.00	127.00
1	M	450	THR	CA-C-N	8.33	147.00	127.00
1	M	450	THR	C-N-CA	8.33	147.00	127.00
1	K	450	THR	CA-C-N	8.33	146.99	127.00
1	K	450	THR	C-N-CA	8.33	146.99	127.00
1	q	450	THR	CA-C-N	8.33	146.99	127.00
1	q	450	THR	C-N-CA	8.33	146.99	127.00
1	L	450	THR	CA-C-N	8.33	146.99	127.00
1	L	450	THR	C-N-CA	8.33	146.99	127.00
1	Z	450	THR	CA-C-N	8.33	146.99	127.00
1	Z	450	THR	C-N-CA	8.33	146.99	127.00
1	i	450	THR	CA-C-N	8.33	146.98	127.00
1	i	450	THR	C-N-CA	8.33	146.98	127.00
1	k	450	THR	CA-C-N	8.33	146.99	127.00
1	k	450	THR	C-N-CA	8.33	146.99	127.00
1	w	450	THR	CA-C-N	8.33	146.98	127.00
1	w	450	THR	C-N-CA	8.33	146.98	127.00
1	B	450	THR	CA-C-N	8.32	146.97	127.00
1	B	450	THR	C-N-CA	8.32	146.97	127.00
1	N	450	THR	CA-C-N	8.32	146.98	127.00
1	N	450	THR	C-N-CA	8.32	146.98	127.00
1	b	450	THR	CA-C-N	8.32	146.97	127.00
1	b	450	THR	C-N-CA	8.32	146.97	127.00
1	p	450	THR	CA-C-N	8.32	146.98	127.00
1	p	450	THR	C-N-CA	8.32	146.98	127.00
1	s	450	THR	CA-C-N	8.32	146.97	127.00
1	s	450	THR	C-N-CA	8.32	146.97	127.00
1	4	450	THR	CA-C-N	8.32	146.97	127.00
1	4	450	THR	C-N-CA	8.32	146.97	127.00
1	X	450	THR	CA-C-N	8.32	146.97	127.00
1	X	450	THR	C-N-CA	8.32	146.97	127.00
1	3	450	THR	CA-C-N	8.32	146.97	127.00
1	3	450	THR	C-N-CA	8.32	146.97	127.00
1	D	450	THR	CA-C-N	8.32	146.96	127.00
1	D	450	THR	C-N-CA	8.32	146.96	127.00
1	E	450	THR	CA-C-N	8.32	146.96	127.00
1	E	450	THR	C-N-CA	8.32	146.96	127.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	I	450	THR	CA-C-N	8.32	146.96	127.00
1	I	450	THR	C-N-CA	8.32	146.96	127.00
1	O	450	THR	CA-C-N	8.32	146.96	127.00
1	O	450	THR	C-N-CA	8.32	146.96	127.00
1	S	450	THR	CA-C-N	8.32	146.96	127.00
1	S	450	THR	C-N-CA	8.32	146.96	127.00
1	U	450	THR	CA-C-N	8.32	146.96	127.00
1	U	450	THR	C-N-CA	8.32	146.96	127.00
1	a	450	THR	CA-C-N	8.32	146.96	127.00
1	a	450	THR	C-N-CA	8.32	146.96	127.00
1	f	450	THR	CA-C-N	8.32	146.96	127.00
1	f	450	THR	C-N-CA	8.32	146.96	127.00
1	j	450	THR	CA-C-N	8.32	146.96	127.00
1	j	450	THR	C-N-CA	8.32	146.96	127.00
1	l	450	THR	CA-C-N	8.32	146.96	127.00
1	l	450	THR	C-N-CA	8.32	146.96	127.00
1	n	450	THR	CA-C-N	8.32	146.96	127.00
1	n	450	THR	C-N-CA	8.32	146.96	127.00
1	t	450	THR	CA-C-N	8.32	146.96	127.00
1	t	450	THR	C-N-CA	8.32	146.96	127.00
1	1	450	THR	CA-C-N	8.32	146.96	127.00
1	1	450	THR	C-N-CA	8.32	146.96	127.00
1	7	450	THR	CA-C-N	8.32	146.96	127.00
1	7	450	THR	C-N-CA	8.32	146.96	127.00
1	Q	450	THR	CA-C-N	8.31	146.96	127.00
1	Q	450	THR	C-N-CA	8.31	146.96	127.00
1	R	450	THR	CA-C-N	8.31	146.96	127.00
1	R	450	THR	C-N-CA	8.31	146.96	127.00
1	Y	450	THR	CA-C-N	8.31	146.96	127.00
1	Y	450	THR	C-N-CA	8.31	146.96	127.00
1	m	450	THR	CA-C-N	8.31	146.96	127.00
1	m	450	THR	C-N-CA	8.31	146.96	127.00
1	u	450	THR	CA-C-N	8.31	146.96	127.00
1	u	450	THR	C-N-CA	8.31	146.96	127.00
1	8	450	THR	CA-C-N	8.31	146.96	127.00
1	8	450	THR	C-N-CA	8.31	146.96	127.00
1	P	450	THR	CA-C-N	8.31	146.95	127.00
1	P	450	THR	C-N-CA	8.31	146.95	127.00
1	e	450	THR	CA-C-N	8.31	146.95	127.00
1	e	450	THR	C-N-CA	8.31	146.95	127.00
1	r	450	THR	CA-C-N	8.31	146.94	127.00
1	r	450	THR	C-N-CA	8.31	146.94	127.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	g	450	THR	CA-C-N	8.31	146.94	127.00
1	g	450	THR	C-N-CA	8.31	146.94	127.00
1	6	450	THR	CA-C-N	8.31	146.94	127.00
1	6	450	THR	C-N-CA	8.31	146.94	127.00
1	A	450	THR	CA-C-N	8.31	146.94	127.00
1	A	450	THR	C-N-CA	8.31	146.94	127.00
1	o	450	THR	CA-C-N	8.31	146.94	127.00
1	o	450	THR	C-N-CA	8.31	146.94	127.00
1	G	450	THR	CA-C-N	8.31	146.94	127.00
1	G	450	THR	C-N-CA	8.31	146.94	127.00
1	H	450	THR	CA-C-N	8.30	146.93	127.00
1	H	450	THR	C-N-CA	8.30	146.93	127.00
1	d	450	THR	CA-C-N	8.30	146.93	127.00
1	d	450	THR	C-N-CA	8.30	146.93	127.00
1	F	450	THR	CA-C-N	8.30	146.92	127.00
1	F	450	THR	C-N-CA	8.30	146.92	127.00
1	v	450	THR	CA-C-N	8.30	146.92	127.00
1	v	450	THR	C-N-CA	8.30	146.92	127.00
1	W	450	THR	CA-C-N	8.30	146.91	127.00
1	W	450	THR	C-N-CA	8.30	146.91	127.00
1	5	450	THR	CA-C-N	8.30	146.92	127.00
1	5	450	THR	C-N-CA	8.30	146.92	127.00
1	x	450	THR	CA-C-N	8.29	146.91	127.00
1	x	450	THR	C-N-CA	8.29	146.91	127.00
1	y	450	THR	CA-C-N	8.29	146.89	127.00
1	y	450	THR	C-N-CA	8.29	146.89	127.00
1	U	450	THR	C-N-CD	-8.07	102.84	120.60
1	w	450	THR	C-N-CD	-8.07	102.84	120.60
1	I	450	THR	C-N-CD	-8.07	102.85	120.60
1	l	450	THR	C-N-CD	-8.07	102.85	120.60
1	L	450	THR	C-N-CD	-8.07	102.85	120.60
1	V	450	THR	C-N-CD	-8.07	102.85	120.60
1	Z	450	THR	C-N-CD	-8.07	102.85	120.60
1	h	450	THR	C-N-CD	-8.07	102.85	120.60
1	q	450	THR	C-N-CD	-8.07	102.85	120.60
1	6	450	THR	C-N-CD	-8.07	102.85	120.60
1	B	450	THR	C-N-CD	-8.06	102.86	120.60
1	K	450	THR	C-N-CD	-8.06	102.86	120.60
1	D	450	THR	C-N-CD	-8.06	102.86	120.60
1	2	450	THR	C-N-CD	-8.06	102.86	120.60
1	c	450	THR	C-N-CD	-8.06	102.86	120.60
1	n	450	THR	C-N-CD	-8.06	102.86	120.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	r	450	THR	C-N-CD	-8.06	102.86	120.60
1	z	450	THR	C-N-CD	-8.06	102.86	120.60
1	l	450	THR	C-N-CD	-8.06	102.86	120.60
1	A	450	THR	C-N-CD	-8.06	102.87	120.60
1	j	450	THR	C-N-CD	-8.06	102.87	120.60
1	3	450	THR	C-N-CD	-8.06	102.87	120.60
1	o	450	THR	C-N-CD	-8.06	102.87	120.60
1	t	450	THR	C-N-CD	-8.06	102.87	120.60
1	7	450	THR	C-N-CD	-8.06	102.87	120.60
1	N	450	THR	C-N-CD	-8.05	102.88	120.60
1	T	450	THR	C-N-CD	-8.06	102.88	120.60
1	C	450	THR	C-N-CD	-8.05	102.89	120.60
1	a	450	THR	C-N-CD	-8.05	102.89	120.60
1	k	450	THR	C-N-CD	-8.05	102.89	120.60
1	g	450	THR	C-N-CD	-8.05	102.89	120.60
1	i	450	THR	C-N-CD	-8.05	102.89	120.60
1	s	450	THR	C-N-CD	-8.05	102.89	120.60
1	J	450	THR	C-N-CD	-8.05	102.89	120.60
1	m	450	THR	C-N-CD	-8.05	102.89	120.60
1	4	450	THR	C-N-CD	-8.05	102.90	120.60
1	E	450	THR	C-N-CD	-8.04	102.90	120.60
1	H	450	THR	C-N-CD	-8.04	102.90	120.60
1	M	450	THR	C-N-CD	-8.04	102.90	120.60
1	O	450	THR	C-N-CD	-8.04	102.90	120.60
1	P	450	THR	C-N-CD	-8.04	102.90	120.60
1	S	450	THR	C-N-CD	-8.04	102.90	120.60
1	b	450	THR	C-N-CD	-8.05	102.90	120.60
1	e	450	THR	C-N-CD	-8.04	102.90	120.60
1	f	450	THR	C-N-CD	-8.04	102.90	120.60
1	G	450	THR	C-N-CD	-8.04	102.91	120.60
1	R	450	THR	C-N-CD	-8.04	102.91	120.60
1	Y	450	THR	C-N-CD	-8.04	102.91	120.60
1	5	450	THR	C-N-CD	-8.04	102.91	120.60
1	8	450	THR	C-N-CD	-8.04	102.91	120.60
1	F	450	THR	C-N-CD	-8.04	102.92	120.60
1	X	450	THR	C-N-CD	-8.04	102.91	120.60
1	u	450	THR	C-N-CD	-8.04	102.92	120.60
1	x	450	THR	C-N-CD	-8.04	102.92	120.60
1	y	450	THR	C-N-CD	-8.04	102.92	120.60
1	W	450	THR	C-N-CD	-8.04	102.92	120.60
1	Q	450	THR	C-N-CD	-8.04	102.92	120.60
1	d	450	THR	C-N-CD	-8.04	102.92	120.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	p	450	THR	C-N-CD	-8.03	102.94	120.60
1	v	450	THR	C-N-CD	-8.03	102.94	120.60

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	4106	0	3868	167	0
1	2	4106	0	3868	165	0
1	3	4106	0	3868	167	0
1	4	4106	0	3868	168	0
1	5	4106	0	3868	168	0
1	6	4106	0	3868	173	0
1	7	4106	0	3868	168	0
1	8	4106	0	3868	172	0
1	A	4106	0	3868	173	0
1	B	4106	0	3868	174	0
1	C	4106	0	3868	168	0
1	D	4106	0	3868	171	0
1	E	4106	0	3868	170	0
1	F	4106	0	3868	173	0
1	G	4106	0	3868	173	0
1	H	4106	0	3868	175	0
1	I	4106	0	3868	171	0
1	J	4106	0	3868	172	0
1	K	4106	0	3868	174	0
1	L	4106	0	3868	166	0
1	M	4106	0	3868	172	0
1	N	4106	0	3868	173	0
1	O	4106	0	3868	168	0
1	P	4106	0	3868	168	0
1	Q	4106	0	3868	167	0
1	R	4106	0	3868	174	0
1	S	4106	0	3868	172	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	T	4106	0	3868	170	0
1	U	4106	0	3868	172	0
1	V	4106	0	3868	175	0
1	W	4106	0	3868	168	0
1	X	4106	0	3868	166	0
1	Y	4106	0	3868	172	0
1	Z	4106	0	3868	169	0
1	a	4106	0	3868	172	0
1	b	4106	0	3868	174	0
1	c	4106	0	3868	171	0
1	d	4106	0	3868	164	0
1	e	4106	0	3868	167	0
1	f	4106	0	3868	172	0
1	g	4106	0	3868	172	0
1	h	4106	0	3868	173	0
1	i	4106	0	3868	172	0
1	j	4106	0	3868	173	0
1	k	4106	0	3868	169	0
1	l	4106	0	3868	166	0
1	m	4106	0	3868	171	0
1	n	4106	0	3868	171	0
1	o	4106	0	3868	174	0
1	p	4106	0	3868	172	0
1	q	4106	0	3868	168	0
1	r	4106	0	3868	172	0
1	s	4106	0	3868	175	0
1	t	4106	0	3868	174	0
1	u	4106	0	3868	173	0
1	v	4106	0	3868	167	0
1	w	4106	0	3868	165	0
1	x	4106	0	3868	166	0
1	y	4106	0	3868	175	0
1	z	4106	0	3868	163	0
All	All	246360	0	232080	8720	0

The all-atom clashscore is defined as the number of clashes found per 1000 atoms (including hydrogen atoms). The all-atom clashscore for this structure is 18.

All (8720) 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:e:371:MET:HE1	1:h:661:PHE:HA	1.55	0.89
1:N:371:MET:HE1	1:m:661:PHE:HA	1.55	0.89
1:M:371:MET:HE1	1:N:661:PHE:HA	1.55	0.88
1:Q:371:MET:HE1	1:S:661:PHE:HA	1.55	0.88
1:k:661:PHE:HA	1:w:371:MET:HE1	1.56	0.88
1:Z:661:PHE:HA	1:a:371:MET:HE1	1.56	0.88
1:z:661:PHE:HA	1:4:371:MET:HE1	1.55	0.88
1:u:661:PHE:HA	1:5:371:MET:HE1	1.56	0.88
1:J:371:MET:HE1	1:a:661:PHE:HA	1.56	0.88
1:F:371:MET:HE1	1:G:661:PHE:HA	1.56	0.88
1:m:371:MET:HE1	1:s:661:PHE:HA	1.55	0.88
1:C:661:PHE:HA	1:D:371:MET:HE1	1.55	0.87
1:X:371:MET:HE1	1:Y:661:PHE:HA	1.56	0.87
1:D:661:PHE:HA	1:E:371:MET:HE1	1.56	0.87
1:H:371:MET:HE1	1:I:661:PHE:HA	1.56	0.87
1:p:661:PHE:HA	1:6:371:MET:HE1	1.56	0.87
1:U:371:MET:HE1	1:e:661:PHE:HA	1.56	0.87
1:B:661:PHE:HA	1:C:371:MET:HE1	1.55	0.87
1:j:661:PHE:HA	1:l:371:MET:HE1	1.56	0.87
1:r:661:PHE:HA	1:x:371:MET:HE1	1.57	0.87
1:S:371:MET:HE1	1:d:661:PHE:HA	1.56	0.87
1:K:661:PHE:HA	1:7:371:MET:HE1	1.56	0.87
1:Y:371:MET:HE1	1:4:661:PHE:HA	1.55	0.87
1:c:661:PHE:HA	1:s:371:MET:HE1	1.56	0.87
1:H:661:PHE:HA	1:Z:371:MET:HE1	1.56	0.87
1:X:661:PHE:HA	1:f:371:MET:HE1	1.55	0.87
1:K:371:MET:HE1	1:L:661:PHE:HA	1.56	0.86
1:j:371:MET:HE1	1:x:661:PHE:HA	1.56	0.86
1:L:371:MET:HE1	1:b:661:PHE:HA	1.55	0.86
1:n:661:PHE:HA	1:r:371:MET:HE1	1.55	0.86
1:I:371:MET:HE1	1:J:661:PHE:HA	1.56	0.86
1:M:661:PHE:HA	1:c:371:MET:HE1	1.56	0.86
1:v:661:PHE:HA	1:1:371:MET:HE1	1.56	0.86
1:R:661:PHE:HA	1:V:371:MET:HE1	1.55	0.86
1:b:371:MET:HE1	1:o:661:PHE:HA	1.56	0.86
1:h:371:MET:HE1	1:i:661:PHE:HA	1.56	0.86
1:o:371:MET:HE1	1:7:661:PHE:HA	1.56	0.86
1:F:661:PHE:HA	1:R:371:MET:HE1	1.55	0.86
1:T:371:MET:HE1	1:U:661:PHE:HA	1.57	0.86
1:V:661:PHE:HA	1:W:371:MET:HE1	1.55	0.86
1:p:371:MET:HE1	1:q:661:PHE:HA	1.56	0.86
1:t:371:MET:HE1	1:6:661:PHE:HA	1.55	0.86

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:661:PHE:HA	1:B:371:MET:HE1	1.56	0.86
1:g:371:MET:HE1	1:l:661:PHE:HA	1.55	0.86
1:l:661:PHE:HA	1:n:371:MET:HE1	1.57	0.86
1:A:371:MET:HE1	1:E:661:PHE:HA	1.56	0.86
1:G:371:MET:HE1	1:W:661:PHE:HA	1.57	0.86
1:P:371:MET:HE1	1:Q:661:PHE:HA	1.56	0.86
1:q:371:MET:HE1	1:y:661:PHE:HA	1.56	0.86
1:v:371:MET:HE1	1:w:661:PHE:HA	1.57	0.86
1:O:661:PHE:HA	1:d:371:MET:HE1	1.57	0.85
1:f:661:PHE:HA	1:z:371:MET:HE1	1.58	0.85
1:g:661:PHE:HA	1:k:371:MET:HE1	1.56	0.85
1:u:371:MET:HE1	1:2:661:PHE:HA	1.57	0.85
1:3:371:MET:HE1	1:8:661:PHE:HA	1.57	0.85
1:t:661:PHE:HA	1:y:371:MET:HE1	1.57	0.85
1:2:371:MET:HE1	1:3:661:PHE:HA	1.56	0.85
1:T:661:PHE:HA	1:i:371:MET:HE1	1.57	0.85
1:r:507:LYS:HG2	1:r:516:LEU:HA	1.59	0.85
1:6:507:LYS:HG2	1:6:516:LEU:HA	1.59	0.85
1:F:507:LYS:HG2	1:F:516:LEU:HA	1.59	0.85
1:Y:507:LYS:HG2	1:Y:516:LEU:HA	1.59	0.85
1:j:507:LYS:HG2	1:j:516:LEU:HA	1.59	0.84
1:f:507:LYS:HG2	1:f:516:LEU:HA	1.59	0.84
1:D:507:LYS:HG2	1:D:516:LEU:HA	1.59	0.84
1:n:507:LYS:HG2	1:n:516:LEU:HA	1.59	0.84
1:K:507:LYS:HG2	1:K:516:LEU:HA	1.59	0.84
1:M:507:LYS:HG2	1:M:516:LEU:HA	1.59	0.84
1:X:507:LYS:HG2	1:X:516:LEU:HA	1.59	0.84
1:J:507:LYS:HG2	1:J:516:LEU:HA	1.59	0.84
1:m:507:LYS:HG2	1:m:516:LEU:HA	1.59	0.84
1:x:507:LYS:HG2	1:x:516:LEU:HA	1.59	0.84
1:4:507:LYS:HG2	1:4:516:LEU:HA	1.59	0.84
1:7:507:LYS:HG2	1:7:516:LEU:HA	1.59	0.84
1:H:507:LYS:HG2	1:H:516:LEU:HA	1.59	0.84
1:s:507:LYS:HG2	1:s:516:LEU:HA	1.59	0.84
1:E:507:LYS:HG2	1:E:516:LEU:HA	1.59	0.84
1:S:507:LYS:HG2	1:S:516:LEU:HA	1.59	0.84
1:Z:507:LYS:HG2	1:Z:516:LEU:HA	1.59	0.84
1:h:507:LYS:HG2	1:h:516:LEU:HA	1.59	0.84
1:O:371:MET:HE1	1:P:661:PHE:HA	1.56	0.84
1:k:507:LYS:HG2	1:k:516:LEU:HA	1.59	0.84
1:u:507:LYS:HG2	1:u:516:LEU:HA	1.59	0.84

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:q:507:LYS:HG2	1:q:516:LEU:HA	1.59	0.83
1:N:507:LYS:HG2	1:N:516:LEU:HA	1.59	0.83
1:W:507:LYS:HG2	1:W:516:LEU:HA	1.59	0.83
1:a:507:LYS:HG2	1:a:516:LEU:HA	1.59	0.83
1:3:507:LYS:HG2	1:3:516:LEU:HA	1.59	0.83
1:1:507:LYS:HG2	1:1:516:LEU:HA	1.59	0.83
1:O:507:LYS:HG2	1:O:516:LEU:HA	1.59	0.83
1:2:507:LYS:HG2	1:2:516:LEU:HA	1.59	0.83
1:w:507:LYS:HG2	1:w:516:LEU:HA	1.59	0.83
1:T:507:LYS:HG2	1:T:516:LEU:HA	1.59	0.83
1:C:507:LYS:HG2	1:C:516:LEU:HA	1.59	0.83
1:d:507:LYS:HG2	1:d:516:LEU:HA	1.59	0.83
1:e:507:LYS:HG2	1:e:516:LEU:HA	1.59	0.83
1:5:507:LYS:HG2	1:5:516:LEU:HA	1.59	0.83
1:L:507:LYS:HG2	1:L:516:LEU:HA	1.59	0.82
1:Q:507:LYS:HG2	1:Q:516:LEU:HA	1.59	0.82
1:o:507:LYS:HG2	1:o:516:LEU:HA	1.59	0.82
1:G:507:LYS:HG2	1:G:516:LEU:HA	1.59	0.82
1:R:507:LYS:HG2	1:R:516:LEU:HA	1.59	0.82
1:p:507:LYS:HG2	1:p:516:LEU:HA	1.59	0.82
1:t:507:LYS:HG2	1:t:516:LEU:HA	1.59	0.82
1:5:661:PHE:HA	1:8:371:MET:HE1	1.59	0.82
1:A:507:LYS:HG2	1:A:516:LEU:HA	1.59	0.82
1:c:507:LYS:HG2	1:c:516:LEU:HA	1.59	0.82
1:z:507:LYS:HG2	1:z:516:LEU:HA	1.59	0.82
1:l:507:LYS:HG2	1:l:516:LEU:HA	1.59	0.82
1:i:507:LYS:HG2	1:i:516:LEU:HA	1.59	0.82
1:B:507:LYS:HG2	1:B:516:LEU:HA	1.59	0.81
1:I:507:LYS:HG2	1:I:516:LEU:HA	1.59	0.81
1:b:507:LYS:HG2	1:b:516:LEU:HA	1.59	0.81
1:g:507:LYS:HG2	1:g:516:LEU:HA	1.59	0.81
1:V:507:LYS:HG2	1:V:516:LEU:HA	1.59	0.81
1:K:495:ASN:HB2	1:8:457:GLN:HE22	1.45	0.81
1:y:507:LYS:HG2	1:y:516:LEU:HA	1.59	0.81
1:P:507:LYS:HG2	1:P:516:LEU:HA	1.59	0.81
1:8:507:LYS:HG2	1:8:516:LEU:HA	1.59	0.81
1:U:507:LYS:HG2	1:U:516:LEU:HA	1.59	0.81
1:v:507:LYS:HG2	1:v:516:LEU:HA	1.59	0.81
1:F:440:GLN:O	1:F:464:GLN:NE2	2.15	0.79
1:x:440:GLN:O	1:x:464:GLN:NE2	2.15	0.79
1:6:440:GLN:O	1:6:464:GLN:NE2	2.15	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:X:440:GLN:O	1:X:464:GLN:NE2	2.15	0.79
1:Y:440:GLN:O	1:Y:464:GLN:NE2	2.15	0.79
1:1:457:GLN:HE22	1:2:495:ASN:HB2	1.48	0.79
1:M:440:GLN:O	1:M:464:GLN:NE2	2.15	0.78
1:n:440:GLN:O	1:n:464:GLN:NE2	2.15	0.78
1:k:440:GLN:O	1:k:464:GLN:NE2	2.15	0.78
1:J:440:GLN:O	1:J:464:GLN:NE2	2.15	0.78
1:O:440:GLN:O	1:O:464:GLN:NE2	2.15	0.78
1:4:440:GLN:O	1:4:464:GLN:NE2	2.15	0.78
1:h:440:GLN:O	1:h:464:GLN:NE2	2.15	0.78
1:s:440:GLN:O	1:s:464:GLN:NE2	2.15	0.78
1:y:440:GLN:O	1:y:464:GLN:NE2	2.15	0.78
1:H:440:GLN:O	1:H:464:GLN:NE2	2.15	0.78
1:S:440:GLN:O	1:S:464:GLN:NE2	2.15	0.78
1:V:440:GLN:O	1:V:464:GLN:NE2	2.15	0.78
1:3:440:GLN:O	1:3:464:GLN:NE2	2.15	0.78
1:U:440:GLN:O	1:U:464:GLN:NE2	2.15	0.78
1:v:440:GLN:O	1:v:464:GLN:NE2	2.15	0.78
1:u:440:GLN:O	1:u:464:GLN:NE2	2.15	0.78
1:c:440:GLN:O	1:c:464:GLN:NE2	2.15	0.77
1:N:457:GLN:HE22	1:P:495:ASN:HB2	1.49	0.77
1:m:440:GLN:O	1:m:464:GLN:NE2	2.15	0.77
1:I:440:GLN:O	1:I:464:GLN:NE2	2.15	0.77
1:j:440:GLN:O	1:j:464:GLN:NE2	2.15	0.77
1:5:457:GLN:HE22	1:6:495:ASN:HB2	1.50	0.77
1:D:495:ASN:HB2	1:P:457:GLN:HE22	1.50	0.77
1:Z:440:GLN:O	1:Z:464:GLN:NE2	2.15	0.77
1:d:440:GLN:O	1:d:464:GLN:NE2	2.15	0.77
1:f:440:GLN:O	1:f:464:GLN:NE2	2.15	0.77
1:l:440:GLN:O	1:l:464:GLN:NE2	2.15	0.77
1:D:457:GLN:HE22	1:N:495:ASN:HB2	1.50	0.77
1:H:495:ASN:HB2	1:Y:457:GLN:HE22	1.50	0.76
1:z:440:GLN:O	1:z:464:GLN:NE2	2.15	0.76
1:2:440:GLN:O	1:2:464:GLN:NE2	2.15	0.76
1:r:457:GLN:HE22	1:s:495:ASN:HB2	1.50	0.76
1:F:495:ASN:HB2	1:Q:457:GLN:HE22	1.51	0.76
1:R:457:GLN:HE22	1:S:495:ASN:HB2	1.50	0.76
1:C:457:GLN:HE22	1:b:495:ASN:HB2	1.50	0.76
1:H:457:GLN:HE22	1:W:495:ASN:HB2	1.50	0.76
1:K:457:GLN:HE22	1:a:495:ASN:HB2	1.51	0.76
1:W:457:GLN:HE22	1:Y:495:ASN:HB2	1.51	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:i:495:ASN:HB2	1:k:457:GLN:HE22	1.50	0.76
1:m:457:GLN:HE22	1:n:495:ASN:HB2	1.50	0.76
1:q:495:ASN:HB2	1:s:457:GLN:HE22	1.50	0.76
1:N:440:GLN:O	1:N:464:GLN:NE2	2.15	0.76
1:O:495:ASN:HB2	1:n:457:GLN:HE22	1.50	0.76
1:Z:495:ASN:HB2	1:3:457:GLN:HE22	1.50	0.76
1:q:457:GLN:HE22	1:r:495:ASN:HB2	1.51	0.76
1:B:495:ASN:HB2	1:L:457:GLN:HE22	1.50	0.76
1:C:440:GLN:O	1:C:464:GLN:NE2	2.15	0.76
1:S:457:GLN:HE22	1:U:495:ASN:HB2	1.50	0.76
1:T:457:GLN:HE22	1:d:495:ASN:HB2	1.51	0.76
1:a:440:GLN:O	1:a:464:GLN:NE2	2.15	0.76
1:f:457:GLN:HE22	1:h:495:ASN:HB2	1.50	0.76
1:7:440:GLN:O	1:7:464:GLN:NE2	2.15	0.76
1:X:495:ASN:HB2	1:e:457:GLN:HE22	1.50	0.76
1:g:440:GLN:O	1:g:464:GLN:NE2	2.15	0.76
1:i:440:GLN:O	1:i:464:GLN:NE2	2.15	0.76
1:L:440:GLN:O	1:L:464:GLN:NE2	2.15	0.76
1:w:495:ASN:HB2	1:y:457:GLN:HE22	1.50	0.76
1:E:440:GLN:O	1:E:464:GLN:NE2	2.15	0.76
1:Z:457:GLN:HE22	1:4:495:ASN:HB2	1.51	0.76
1:b:485:GLN:NE2	1:b:537:SER:HG	1.84	0.75
1:x:457:GLN:HE22	1:y:495:ASN:HB2	1.50	0.75
1:O:457:GLN:HE22	1:m:495:ASN:HB2	1.51	0.75
1:R:485:GLN:NE2	1:R:537:SER:OG	2.20	0.75
1:T:495:ASN:HB2	1:l:457:GLN:HE22	1.50	0.75
1:t:485:GLN:NE2	1:t:537:SER:OG	2.20	0.75
1:w:457:GLN:HE22	1:x:495:ASN:HB2	1.50	0.75
1:3:495:ASN:HB2	1:4:457:GLN:HE22	1.51	0.75
1:q:485:GLN:NE2	1:q:537:SER:HG	1.84	0.75
1:t:457:GLN:HE22	1:u:495:ASN:HB2	1.51	0.75
1:6:485:GLN:NE2	1:6:537:SER:OG	2.20	0.75
1:F:485:GLN:NE2	1:F:537:SER:OG	2.20	0.75
1:L:485:GLN:NE2	1:L:537:SER:OG	2.20	0.75
1:a:457:GLN:HE22	1:8:495:ASN:HB2	1.52	0.75
1:g:495:ASN:HB2	1:h:457:GLN:HE22	1.51	0.75
1:t:440:GLN:O	1:t:464:GLN:NE2	2.15	0.75
1:C:485:GLN:NE2	1:C:537:SER:OG	2.20	0.75
1:N:485:GLN:NE2	1:N:537:SER:OG	2.20	0.75
1:V:495:ASN:HB2	1:X:457:GLN:HE22	1.51	0.75
1:c:485:GLN:NE2	1:c:537:SER:OG	2.20	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:q:567:THR:HG23	1:q:568:THR:HG23	1.69	0.75
1:B:485:GLN:NE2	1:B:537:SER:OG	2.20	0.75
1:E:495:ASN:HB2	1:F:457:GLN:HE22	1.50	0.75
1:I:485:GLN:NE2	1:I:537:SER:OG	2.20	0.75
1:I:567:THR:HG23	1:I:568:THR:HG23	1.69	0.75
1:Q:343:PHE:HB3	1:Q:400:SER:HA	1.69	0.75
1:R:495:ASN:HB2	1:U:457:GLN:HE22	1.51	0.75
1:W:567:THR:HG23	1:W:568:THR:HG23	1.69	0.75
1:c:567:THR:HG23	1:c:568:THR:HG23	1.69	0.75
1:j:457:GLN:HE22	1:k:495:ASN:HB2	1.51	0.75
1:q:485:GLN:NE2	1:q:537:SER:OG	2.20	0.75
1:w:440:GLN:O	1:w:464:GLN:NE2	2.15	0.75
1:A:343:PHE:HB3	1:A:400:SER:HA	1.69	0.75
1:A:485:GLN:NE2	1:A:537:SER:HG	1.84	0.75
1:A:495:ASN:HB2	1:I:457:GLN:HE22	1.51	0.75
1:B:457:GLN:HE22	1:J:495:ASN:HB2	1.50	0.75
1:E:457:GLN:HE22	1:Q:495:ASN:HB2	1.51	0.75
1:M:495:ASN:HB2	1:b:457:GLN:HE22	1.50	0.75
1:S:567:THR:HG23	1:S:568:THR:HG23	1.69	0.75
1:a:485:GLN:NE2	1:a:537:SER:OG	2.20	0.75
1:b:485:GLN:NE2	1:b:537:SER:OG	2.20	0.75
1:e:567:THR:HG23	1:e:568:THR:HG23	1.69	0.75
1:o:343:PHE:HB3	1:o:400:SER:HA	1.69	0.75
1:s:343:PHE:HB3	1:s:400:SER:HA	1.69	0.75
1:t:567:THR:HG23	1:t:568:THR:HG23	1.69	0.75
1:w:567:THR:HG23	1:w:568:THR:HG23	1.69	0.75
1:5:343:PHE:HB3	1:5:400:SER:HA	1.68	0.75
1:A:567:THR:HG23	1:A:568:THR:HG23	1.69	0.75
1:F:567:THR:HG23	1:F:568:THR:HG23	1.69	0.75
1:H:343:PHE:HB3	1:H:400:SER:HA	1.69	0.75
1:J:567:THR:HG23	1:J:568:THR:HG23	1.69	0.75
1:M:567:THR:HG23	1:M:568:THR:HG23	1.69	0.75
1:R:440:GLN:O	1:R:464:GLN:NE2	2.15	0.75
1:R:567:THR:HG23	1:R:568:THR:HG23	1.69	0.75
1:V:485:GLN:NE2	1:V:537:SER:OG	2.20	0.75
1:V:567:THR:HG23	1:V:568:THR:HG23	1.69	0.75
1:W:485:GLN:NE2	1:W:537:SER:OG	2.20	0.75
1:Y:567:THR:HG23	1:Y:568:THR:HG23	1.69	0.75
1:c:457:GLN:HE22	1:o:495:ASN:HB2	1.51	0.75
1:u:567:THR:HG23	1:u:568:THR:HG23	1.69	0.75
1:x:343:PHE:HB3	1:x:400:SER:HA	1.69	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:485:GLN:NE2	1:J:537:SER:OG	2.20	0.75
1:M:485:GLN:NE2	1:M:537:SER:OG	2.20	0.75
1:P:485:GLN:NE2	1:P:537:SER:OG	2.20	0.75
1:U:343:PHE:HB3	1:U:400:SER:HA	1.69	0.75
1:X:343:PHE:HB3	1:X:400:SER:HA	1.69	0.75
1:X:485:GLN:NE2	1:X:537:SER:OG	2.20	0.75
1:o:567:THR:HG23	1:o:568:THR:HG23	1.69	0.75
1:v:343:PHE:HB3	1:v:400:SER:HA	1.69	0.75
1:x:485:GLN:NE2	1:x:537:SER:OG	2.20	0.75
1:y:485:GLN:NE2	1:y:537:SER:OG	2.20	0.75
1:y:567:THR:HG23	1:y:568:THR:HG23	1.69	0.75
1:G:567:THR:HG23	1:G:568:THR:HG23	1.69	0.74
1:W:485:GLN:NE2	1:W:537:SER:HG	1.84	0.74
1:l:567:THR:HG23	1:l:568:THR:HG23	1.69	0.74
1:m:485:GLN:NE2	1:m:537:SER:OG	2.20	0.74
1:r:440:GLN:O	1:r:464:GLN:NE2	2.15	0.74
1:r:567:THR:HG23	1:r:568:THR:HG23	1.69	0.74
1:6:567:THR:HG23	1:6:568:THR:HG23	1.69	0.74
1:B:567:THR:HG23	1:B:568:THR:HG23	1.69	0.74
1:D:440:GLN:O	1:D:464:GLN:NE2	2.15	0.74
1:E:567:THR:HG23	1:E:568:THR:HG23	1.69	0.74
1:Q:485:GLN:NE2	1:Q:537:SER:OG	2.20	0.74
1:Z:485:GLN:NE2	1:Z:537:SER:OG	2.20	0.74
1:d:485:GLN:NE2	1:d:537:SER:OG	2.20	0.74
1:d:567:THR:HG23	1:d:568:THR:HG23	1.69	0.74
1:e:440:GLN:O	1:e:464:GLN:NE2	2.15	0.74
1:f:485:GLN:NE2	1:f:537:SER:OG	2.20	0.74
1:h:485:GLN:NE2	1:h:537:SER:OG	2.20	0.74
1:8:485:GLN:NE2	1:8:537:SER:OG	2.20	0.74
1:A:457:GLN:HE22	1:G:495:ASN:HB2	1.51	0.74
1:D:485:GLN:NE2	1:D:537:SER:OG	2.20	0.74
1:K:440:GLN:O	1:K:464:GLN:NE2	2.15	0.74
1:K:485:GLN:NE2	1:K:537:SER:OG	2.19	0.74
1:O:567:THR:HG23	1:O:568:THR:HG23	1.69	0.74
1:U:567:THR:HG23	1:U:568:THR:HG23	1.69	0.74
1:b:567:THR:HG23	1:b:568:THR:HG23	1.69	0.74
1:i:457:GLN:HE22	1:j:495:ASN:HB2	1.50	0.74
1:k:485:GLN:NE2	1:k:537:SER:OG	2.20	0.74
1:l:485:GLN:NE2	1:l:537:SER:HG	1.85	0.74
1:o:485:GLN:NE2	1:o:537:SER:HG	1.85	0.74
1:p:567:THR:HG23	1:p:568:THR:HG23	1.69	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:z:567:THR:HG23	1:z:568:THR:HG23	1.69	0.74
1:1:440:GLN:O	1:1:464:GLN:NE2	2.15	0.74
1:2:485:GLN:NE2	1:2:537:SER:OG	2.20	0.74
1:5:485:GLN:NE2	1:5:537:SER:OG	2.20	0.74
1:7:567:THR:HG23	1:7:568:THR:HG23	1.69	0.74
1:F:343:PHE:HB3	1:F:400:SER:HA	1.69	0.74
1:Q:567:THR:HG23	1:Q:568:THR:HG23	1.69	0.74
1:T:440:GLN:O	1:T:464:GLN:NE2	2.15	0.74
1:j:485:GLN:NE2	1:j:537:SER:OG	2.20	0.74
1:o:457:GLN:HE22	1:p:495:ASN:HB2	1.51	0.74
1:v:567:THR:HG23	1:v:568:THR:HG23	1.69	0.74
1:2:567:THR:HG23	1:2:568:THR:HG23	1.69	0.74
1:3:567:THR:HG23	1:3:568:THR:HG23	1.69	0.74
1:5:567:THR:HG23	1:5:568:THR:HG23	1.69	0.74
1:6:457:GLN:HE22	1:7:495:ASN:HB2	1.50	0.74
1:D:567:THR:HG23	1:D:568:THR:HG23	1.69	0.74
1:K:567:THR:HG23	1:K:568:THR:HG23	1.69	0.74
1:O:485:GLN:NE2	1:O:537:SER:OG	2.20	0.74
1:V:457:GLN:HE22	1:e:495:ASN:HB2	1.51	0.74
1:f:485:GLN:NE2	1:f:537:SER:HG	1.84	0.74
1:k:343:PHE:HB3	1:k:400:SER:HA	1.69	0.74
1:r:485:GLN:NE2	1:r:537:SER:OG	2.20	0.74
1:u:457:GLN:HE22	1:v:495:ASN:HB2	1.51	0.74
1:3:485:GLN:NE2	1:3:537:SER:OG	2.20	0.74
1:N:343:PHE:HB3	1:N:400:SER:HA	1.69	0.74
1:S:485:GLN:NE2	1:S:537:SER:OG	2.20	0.74
1:Z:567:THR:HG23	1:Z:568:THR:HG23	1.69	0.74
1:h:343:PHE:HB3	1:h:400:SER:HA	1.69	0.74
1:m:343:PHE:HB3	1:m:400:SER:HA	1.69	0.74
1:m:567:THR:HG23	1:m:568:THR:HG23	1.69	0.74
1:p:343:PHE:HB3	1:p:400:SER:HA	1.69	0.74
1:6:343:PHE:HB3	1:6:400:SER:HA	1.69	0.74
1:8:567:THR:HG23	1:8:568:THR:HG23	1.69	0.74
1:B:343:PHE:HB3	1:B:400:SER:HA	1.69	0.74
1:G:343:PHE:HB3	1:G:400:SER:HA	1.69	0.74
1:J:457:GLN:HE22	1:L:495:ASN:HB2	1.51	0.74
1:K:343:PHE:HB3	1:K:400:SER:HA	1.68	0.74
1:P:343:PHE:HB3	1:P:400:SER:HA	1.69	0.74
1:Z:343:PHE:HB3	1:Z:400:SER:HA	1.69	0.74
1:b:343:PHE:HB3	1:b:400:SER:HA	1.69	0.74
1:d:343:PHE:HB3	1:d:400:SER:HA	1.69	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:j:343:PHE:HB3	1:j:400:SER:HA	1.69	0.74
1:l:485:GLN:NE2	1:l:537:SER:OG	2.20	0.74
1:u:485:GLN:NE2	1:u:537:SER:OG	2.20	0.74
1:z:485:GLN:NE2	1:z:537:SER:OG	2.20	0.74
1:5:495:ASN:HB2	1:7:457:GLN:HE22	1.51	0.74
1:8:343:PHE:HB3	1:8:400:SER:HA	1.69	0.74
1:C:495:ASN:HB2	1:M:457:GLN:HE22	1.51	0.74
1:D:343:PHE:HB3	1:D:400:SER:HA	1.68	0.74
1:E:343:PHE:HB3	1:E:400:SER:HA	1.69	0.74
1:E:485:GLN:NE2	1:E:537:SER:OG	2.20	0.74
1:G:457:GLN:HE22	1:I:495:ASN:HB2	1.51	0.74
1:J:343:PHE:HB3	1:J:400:SER:HA	1.69	0.74
1:M:343:PHE:HB3	1:M:400:SER:HA	1.69	0.74
1:P:567:THR:HG23	1:P:568:THR:HG23	1.69	0.74
1:W:343:PHE:HB3	1:W:400:SER:HA	1.69	0.74
1:Y:343:PHE:HB3	1:Y:400:SER:HA	1.69	0.74
1:Y:485:GLN:NE2	1:Y:537:SER:OG	2.20	0.74
1:a:343:PHE:HB3	1:a:400:SER:HA	1.69	0.74
1:c:343:PHE:HB3	1:c:400:SER:HA	1.69	0.74
1:e:485:GLN:NE2	1:e:537:SER:OG	2.20	0.74
1:f:343:PHE:HB3	1:f:400:SER:HA	1.69	0.74
1:i:343:PHE:HB3	1:i:400:SER:HA	1.69	0.74
1:q:343:PHE:HB3	1:q:400:SER:HA	1.69	0.74
1:y:343:PHE:HB3	1:y:400:SER:HA	1.69	0.74
1:z:343:PHE:HB3	1:z:400:SER:HA	1.69	0.74
1:2:343:PHE:HB3	1:2:400:SER:HA	1.69	0.74
1:7:343:PHE:HB3	1:7:400:SER:HA	1.69	0.74
1:B:440:GLN:O	1:B:464:GLN:NE2	2.15	0.74
1:C:343:PHE:HB3	1:C:400:SER:HA	1.69	0.74
1:G:440:GLN:O	1:G:464:GLN:NE2	2.15	0.74
1:I:343:PHE:HB3	1:I:400:SER:HA	1.69	0.74
1:L:343:PHE:HB3	1:L:400:SER:HA	1.69	0.74
1:Q:440:GLN:O	1:Q:464:GLN:NE2	2.15	0.74
1:V:343:PHE:HB3	1:V:400:SER:HA	1.69	0.74
1:d:457:GLN:HE22	1:l:495:ASN:HB2	1.51	0.74
1:n:343:PHE:HB3	1:n:400:SER:HA	1.69	0.74
1:t:343:PHE:HB3	1:t:400:SER:HA	1.69	0.74
1:t:495:ASN:HB2	1:v:457:GLN:HE22	1.52	0.74
1:w:343:PHE:HB3	1:w:400:SER:HA	1.69	0.74
1:w:485:GLN:NE2	1:w:537:SER:OG	2.20	0.74
1:3:343:PHE:HB3	1:3:400:SER:HA	1.69	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:7:485:GLN:NE2	1:7:537:SER:OG	2.20	0.74
1:E:485:GLN:NE2	1:E:537:SER:HG	1.85	0.74
1:R:343:PHE:HB3	1:R:400:SER:HA	1.69	0.74
1:S:343:PHE:HB3	1:S:400:SER:HA	1.69	0.74
1:T:343:PHE:HB3	1:T:400:SER:HA	1.69	0.74
1:f:495:ASN:HB2	1:g:457:GLN:HE22	1.50	0.74
1:g:343:PHE:HB3	1:g:400:SER:HA	1.69	0.74
1:g:567:THR:HG23	1:g:568:THR:HG23	1.69	0.74
1:l:343:PHE:HB3	1:l:400:SER:HA	1.69	0.74
1:o:440:GLN:O	1:o:464:GLN:NE2	2.15	0.74
1:r:343:PHE:HB3	1:r:400:SER:HA	1.69	0.74
1:u:343:PHE:HB3	1:u:400:SER:HA	1.69	0.74
1:4:343:PHE:HB3	1:4:400:SER:HA	1.69	0.74
1:e:343:PHE:HB3	1:e:400:SER:HA	1.69	0.73
1:i:567:THR:HG23	1:i:568:THR:HG23	1.69	0.73
1:o:485:GLN:NE2	1:o:537:SER:OG	2.20	0.73
1:p:440:GLN:O	1:p:464:GLN:NE2	2.15	0.73
1:1:343:PHE:HB3	1:1:400:SER:HA	1.69	0.73
1:H:485:GLN:NE2	1:H:537:SER:OG	2.20	0.73
1:O:343:PHE:HB3	1:O:400:SER:HA	1.69	0.73
1:g:485:GLN:NE2	1:g:537:SER:OG	2.20	0.73
1:i:485:GLN:NE2	1:i:537:SER:OG	2.20	0.73
1:n:485:GLN:NE2	1:n:537:SER:OG	2.20	0.73
1:p:485:GLN:NE2	1:p:537:SER:OG	2.20	0.73
1:1:485:GLN:NE2	1:1:537:SER:OG	2.20	0.73
1:A:485:GLN:NE2	1:A:537:SER:OG	2.20	0.73
1:C:567:THR:HG23	1:C:568:THR:HG23	1.69	0.73
1:G:485:GLN:NE2	1:G:537:SER:OG	2.20	0.73
1:L:567:THR:HG23	1:L:568:THR:HG23	1.69	0.73
1:c:495:ASN:HB2	1:p:457:GLN:HE22	1.51	0.73
1:n:567:THR:HG23	1:n:568:THR:HG23	1.69	0.73
1:s:485:GLN:NE2	1:s:537:SER:OG	2.20	0.73
1:4:485:GLN:NE2	1:4:537:SER:OG	2.20	0.73
1:5:440:GLN:O	1:5:464:GLN:NE2	2.15	0.73
1:A:440:GLN:O	1:A:464:GLN:NE2	2.15	0.73
1:H:567:THR:HG23	1:H:568:THR:HG23	1.69	0.73
1:N:567:THR:HG23	1:N:568:THR:HG23	1.69	0.73
1:T:485:GLN:NE2	1:T:537:SER:OG	2.20	0.73
1:a:567:THR:HG23	1:a:568:THR:HG23	1.69	0.73
1:b:440:GLN:O	1:b:464:GLN:NE2	2.15	0.73
1:s:567:THR:HG23	1:s:568:THR:HG23	1.69	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1:485:GLN:NE2	1:1:537:SER:HG	1.86	0.73
1:4:567:THR:HG23	1:4:568:THR:HG23	1.69	0.73
1:e:582:ASN:ND2	1:e:589:GLN:O	2.22	0.73
1:g:582:ASN:ND2	1:g:589:GLN:O	2.22	0.73
1:w:582:ASN:ND2	1:w:589:GLN:O	2.22	0.73
1:J:582:ASN:ND2	1:J:589:GLN:O	2.22	0.73
1:M:582:ASN:ND2	1:M:589:GLN:O	2.22	0.73
1:X:582:ASN:ND2	1:X:589:GLN:O	2.22	0.73
1:i:582:ASN:ND2	1:i:589:GLN:O	2.22	0.73
1:v:485:GLN:NE2	1:v:537:SER:OG	2.20	0.73
1:T:567:THR:HG23	1:T:568:THR:HG23	1.69	0.73
1:x:582:ASN:ND2	1:x:589:GLN:O	2.22	0.73
1:2:582:ASN:ND2	1:2:589:GLN:O	2.22	0.73
1:3:582:ASN:ND2	1:3:589:GLN:O	2.22	0.73
1:A:582:ASN:ND2	1:A:589:GLN:O	2.22	0.73
1:U:485:GLN:NE2	1:U:537:SER:OG	2.20	0.73
1:d:582:ASN:ND2	1:d:589:GLN:O	2.22	0.73
1:f:567:THR:HG23	1:f:568:THR:HG23	1.69	0.73
1:1:567:THR:HG23	1:1:568:THR:HG23	1.69	0.73
1:O:582:ASN:ND2	1:O:589:GLN:O	2.22	0.73
1:Q:582:ASN:ND2	1:Q:589:GLN:O	2.22	0.73
1:j:567:THR:HG23	1:j:568:THR:HG23	1.69	0.73
1:l:582:ASN:ND2	1:l:589:GLN:O	2.22	0.73
1:o:582:ASN:ND2	1:o:589:GLN:O	2.22	0.73
1:5:582:ASN:ND2	1:5:589:GLN:O	2.22	0.73
1:W:582:ASN:ND2	1:W:589:GLN:O	2.22	0.73
1:c:582:ASN:ND2	1:c:589:GLN:O	2.22	0.73
1:O:509:HIS:HB3	1:O:514:ASP:HA	1.71	0.72
1:S:582:ASN:ND2	1:S:589:GLN:O	2.22	0.72
1:V:582:ASN:ND2	1:V:589:GLN:O	2.22	0.72
1:b:509:HIS:HB3	1:b:514:ASP:HA	1.71	0.72
1:q:582:ASN:ND2	1:q:589:GLN:O	2.22	0.72
1:r:509:HIS:HB3	1:r:514:ASP:HA	1.71	0.72
1:u:582:ASN:ND2	1:u:589:GLN:O	2.22	0.72
1:y:582:ASN:ND2	1:y:589:GLN:O	2.22	0.72
1:z:582:ASN:ND2	1:z:589:GLN:O	2.22	0.72
1:B:509:HIS:HB3	1:B:514:ASP:HA	1.71	0.72
1:D:582:ASN:ND2	1:D:589:GLN:O	2.22	0.72
1:I:582:ASN:ND2	1:I:589:GLN:O	2.22	0.72
1:K:582:ASN:ND2	1:K:589:GLN:O	2.22	0.72
1:Y:509:HIS:HB3	1:Y:514:ASP:HA	1.72	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:h:567:THR:HG23	1:h:568:THR:HG23	1.69	0.72
1:k:567:THR:HG23	1:k:568:THR:HG23	1.69	0.72
1:z:495:ASN:HB2	1:2:457:GLN:HE22	1.52	0.72
1:7:582:ASN:ND2	1:7:589:GLN:O	2.22	0.72
1:8:582:ASN:ND2	1:8:589:GLN:O	2.22	0.72
1:E:582:ASN:ND2	1:E:589:GLN:O	2.22	0.72
1:P:582:ASN:ND2	1:P:589:GLN:O	2.22	0.72
1:T:509:HIS:HB3	1:T:514:ASP:HA	1.71	0.72
1:X:509:HIS:HB3	1:X:514:ASP:HA	1.71	0.72
1:x:509:HIS:HB3	1:x:514:ASP:HA	1.72	0.72
1:H:582:ASN:ND2	1:H:589:GLN:O	2.22	0.72
1:X:567:THR:HG23	1:X:568:THR:HG23	1.69	0.72
1:Z:509:HIS:HB3	1:Z:514:ASP:HA	1.71	0.72
1:r:582:ASN:ND2	1:r:589:GLN:O	2.22	0.72
1:s:582:ASN:ND2	1:s:589:GLN:O	2.22	0.72
1:v:582:ASN:ND2	1:v:589:GLN:O	2.22	0.72
1:x:567:THR:HG23	1:x:568:THR:HG23	1.69	0.72
1:1:509:HIS:HB3	1:1:514:ASP:HA	1.71	0.72
1:3:509:HIS:HB3	1:3:514:ASP:HA	1.72	0.72
1:P:440:GLN:O	1:P:464:GLN:NE2	2.15	0.72
1:W:509:HIS:HB3	1:W:514:ASP:HA	1.71	0.72
1:Y:582:ASN:ND2	1:Y:589:GLN:O	2.22	0.72
1:f:509:HIS:HB3	1:f:514:ASP:HA	1.71	0.72
1:h:509:HIS:HB3	1:h:514:ASP:HA	1.71	0.72
1:m:509:HIS:HB3	1:m:514:ASP:HA	1.71	0.72
1:u:716:THR:HA	1:2:259:GLN:HB3	1.71	0.72
1:A:509:HIS:HB3	1:A:514:ASP:HA	1.71	0.72
1:F:582:ASN:ND2	1:F:589:GLN:O	2.22	0.72
1:U:582:ASN:ND2	1:U:589:GLN:O	2.22	0.72
1:f:582:ASN:ND2	1:f:589:GLN:O	2.22	0.72
1:h:582:ASN:ND2	1:h:589:GLN:O	2.22	0.72
1:j:509:HIS:HB3	1:j:514:ASP:HA	1.71	0.72
1:k:509:HIS:HB3	1:k:514:ASP:HA	1.71	0.72
1:k:582:ASN:ND2	1:k:589:GLN:O	2.22	0.72
1:6:582:ASN:ND2	1:6:589:GLN:O	2.22	0.72
1:L:582:ASN:ND2	1:L:589:GLN:O	2.22	0.72
1:g:509:HIS:HB3	1:g:514:ASP:HA	1.71	0.72
1:j:582:ASN:ND2	1:j:589:GLN:O	2.22	0.72
1:n:582:ASN:ND2	1:n:589:GLN:O	2.22	0.72
1:q:509:HIS:HB3	1:q:514:ASP:HA	1.72	0.72
1:z:509:HIS:HB3	1:z:514:ASP:HA	1.72	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:509:HIS:HB3	1:H:514:ASP:HA	1.71	0.72
1:V:509:HIS:HB3	1:V:514:ASP:HA	1.71	0.72
1:Z:582:ASN:ND2	1:Z:589:GLN:O	2.22	0.72
1:i:509:HIS:HB3	1:i:514:ASP:HA	1.71	0.72
1:o:509:HIS:HB3	1:o:514:ASP:HA	1.72	0.72
1:p:582:ASN:ND2	1:p:589:GLN:O	2.22	0.72
1:C:582:ASN:ND2	1:C:589:GLN:O	2.22	0.72
1:G:582:ASN:ND2	1:G:589:GLN:O	2.22	0.72
1:R:582:ASN:ND2	1:R:589:GLN:O	2.22	0.72
1:l:509:HIS:HB3	1:l:514:ASP:HA	1.72	0.72
1:m:582:ASN:ND2	1:m:589:GLN:O	2.22	0.72
1:q:440:GLN:O	1:q:464:GLN:NE2	2.15	0.72
1:t:582:ASN:ND2	1:t:589:GLN:O	2.22	0.72
1:1:582:ASN:ND2	1:1:589:GLN:O	2.22	0.72
1:8:440:GLN:O	1:8:464:GLN:NE2	2.15	0.72
1:B:485:GLN:NE2	1:B:537:SER:HG	1.88	0.72
1:T:582:ASN:ND2	1:T:589:GLN:O	2.22	0.72
1:d:509:HIS:HB3	1:d:514:ASP:HA	1.72	0.72
1:s:509:HIS:HB3	1:s:514:ASP:HA	1.72	0.72
1:4:509:HIS:HB3	1:4:514:ASP:HA	1.71	0.72
1:4:582:ASN:ND2	1:4:589:GLN:O	2.22	0.72
1:d:485:GLN:NE2	1:d:537:SER:HG	1.88	0.71
1:e:509:HIS:HB3	1:e:514:ASP:HA	1.71	0.71
1:n:509:HIS:HB3	1:n:514:ASP:HA	1.71	0.71
1:v:716:THR:HA	1:w:259:GLN:HB3	1.71	0.71
1:y:509:HIS:HB3	1:y:514:ASP:HA	1.71	0.71
1:2:509:HIS:HB3	1:2:514:ASP:HA	1.72	0.71
1:v:259:GLN:HB3	1:1:716:THR:HA	1.72	0.71
1:B:582:ASN:ND2	1:B:589:GLN:O	2.22	0.71
1:D:509:HIS:HB3	1:D:514:ASP:HA	1.71	0.71
1:K:509:HIS:HB3	1:K:514:ASP:HA	1.71	0.71
1:w:509:HIS:HB3	1:w:514:ASP:HA	1.71	0.71
1:N:509:HIS:HB3	1:N:514:ASP:HA	1.71	0.71
1:W:440:GLN:O	1:W:464:GLN:NE2	2.15	0.71
1:a:509:HIS:HB3	1:a:514:ASP:HA	1.71	0.71
1:b:582:ASN:ND2	1:b:589:GLN:O	2.22	0.71
1:C:509:HIS:HB3	1:C:514:ASP:HA	1.71	0.71
1:f:259:GLN:HB3	1:z:716:THR:HA	1.71	0.71
1:t:509:HIS:HB3	1:t:514:ASP:HA	1.71	0.71
1:I:485:GLN:NE2	1:I:537:SER:HG	1.89	0.71
1:L:509:HIS:HB3	1:L:514:ASP:HA	1.71	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:O:259:GLN:HB3	1:d:716:THR:HA	1.73	0.71
1:R:509:HIS:HB3	1:R:514:ASP:HA	1.71	0.71
1:u:509:HIS:HB3	1:u:514:ASP:HA	1.71	0.71
1:v:509:HIS:HB3	1:v:514:ASP:HA	1.71	0.71
1:U:509:HIS:HB3	1:U:514:ASP:HA	1.71	0.71
1:c:485:GLN:NE2	1:c:537:SER:HG	1.89	0.71
1:8:509:HIS:HB3	1:8:514:ASP:HA	1.71	0.71
1:A:716:THR:HA	1:E:259:GLN:HB3	1.72	0.71
1:O:716:THR:HA	1:P:259:GLN:HB3	1.73	0.71
1:P:509:HIS:HB3	1:P:514:ASP:HA	1.71	0.71
1:S:509:HIS:HB3	1:S:514:ASP:HA	1.72	0.71
1:c:259:GLN:HB3	1:s:716:THR:HA	1.73	0.71
1:F:509:HIS:HB3	1:F:514:ASP:HA	1.71	0.71
1:X:259:GLN:HB3	1:f:716:THR:HA	1.72	0.71
1:n:485:GLN:NE2	1:n:537:SER:HG	1.89	0.71
1:y:485:GLN:NE2	1:y:537:SER:HG	1.89	0.71
1:3:716:THR:HA	1:8:259:GLN:HB3	1.73	0.71
1:4:485:GLN:NE2	1:4:537:SER:HG	1.89	0.71
1:G:509:HIS:HB3	1:G:514:ASP:HA	1.72	0.71
1:j:716:THR:HA	1:x:259:GLN:HB3	1.73	0.71
1:o:716:THR:HA	1:7:259:GLN:HB3	1.73	0.71
1:p:509:HIS:HB3	1:p:514:ASP:HA	1.72	0.71
1:6:509:HIS:HB3	1:6:514:ASP:HA	1.71	0.71
1:H:716:THR:HA	1:I:259:GLN:HB3	1.73	0.70
1:N:582:ASN:ND2	1:N:589:GLN:O	2.22	0.70
1:T:716:THR:HA	1:U:259:GLN:HB3	1.73	0.70
1:e:485:GLN:NE2	1:e:537:SER:HG	1.89	0.70
1:I:509:HIS:HB3	1:I:514:ASP:HA	1.71	0.70
1:T:259:GLN:HB3	1:i:716:THR:HA	1.72	0.70
1:c:509:HIS:HB3	1:c:514:ASP:HA	1.72	0.70
1:j:485:GLN:NE2	1:j:537:SER:HG	1.89	0.70
1:p:716:THR:HA	1:q:259:GLN:HB3	1.73	0.70
1:Q:509:HIS:HB3	1:Q:514:ASP:HA	1.71	0.70
1:w:485:GLN:NE2	1:w:537:SER:HG	1.88	0.70
1:a:582:ASN:ND2	1:a:589:GLN:O	2.22	0.70
1:5:509:HIS:HB3	1:5:514:ASP:HA	1.72	0.70
1:C:485:GLN:NE2	1:C:537:SER:HG	1.89	0.70
1:L:485:GLN:NE2	1:L:537:SER:HG	1.89	0.70
1:z:457:GLN:HE22	1:1:495:ASN:HB2	1.55	0.70
1:p:259:GLN:HB3	1:6:716:THR:HA	1.73	0.70
1:t:259:GLN:HB3	1:y:716:THR:HA	1.73	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:u:259:GLN:HB3	1:5:716:THR:HA	1.74	0.70
1:7:509:HIS:HB3	1:7:514:ASP:HA	1.71	0.70
1:E:509:HIS:HB3	1:E:514:ASP:HA	1.71	0.70
1:K:716:THR:HA	1:L:259:GLN:HB3	1.74	0.70
1:h:716:THR:HA	1:i:259:GLN:HB3	1.73	0.70
1:j:494:ASP:OD2	1:j:532:LYS:NZ	2.25	0.70
1:k:494:ASP:OD2	1:k:532:LYS:NZ	2.25	0.70
1:A:452:THR:HG22	1:A:453:GLY:C	2.17	0.70
1:D:494:ASP:OD2	1:D:532:LYS:NZ	2.25	0.70
1:F:716:THR:HA	1:G:259:GLN:HB3	1.73	0.70
1:G:716:THR:HA	1:W:259:GLN:HB3	1.73	0.70
1:K:494:ASP:OD2	1:K:532:LYS:NZ	2.25	0.70
1:f:494:ASP:OD2	1:f:532:LYS:NZ	2.25	0.70
1:g:259:GLN:HB3	1:k:716:THR:HA	1.73	0.70
1:h:494:ASP:OD2	1:h:532:LYS:NZ	2.25	0.70
1:o:452:THR:HG22	1:o:453:GLY:C	2.17	0.70
1:J:509:HIS:HB3	1:J:514:ASP:HA	1.71	0.70
1:K:452:THR:HG22	1:K:453:GLY:C	2.17	0.70
1:M:509:HIS:HB3	1:M:514:ASP:HA	1.72	0.70
1:2:452:THR:HG22	1:2:453:GLY:C	2.17	0.70
1:D:452:THR:HG22	1:D:453:GLY:C	2.17	0.70
1:I:452:THR:HG22	1:I:453:GLY:C	2.17	0.70
1:M:259:GLN:HB3	1:c:716:THR:HA	1.73	0.70
1:M:716:THR:HA	1:N:259:GLN:HB3	1.73	0.70
1:O:452:THR:HG22	1:O:453:GLY:C	2.17	0.70
1:R:259:GLN:HB3	1:V:716:THR:HA	1.74	0.70
1:T:452:THR:HG22	1:T:453:GLY:C	2.17	0.70
1:U:716:THR:HA	1:e:259:GLN:HB3	1.73	0.70
1:c:452:THR:HG22	1:c:453:GLY:C	2.17	0.70
1:d:452:THR:HG22	1:d:453:GLY:C	2.17	0.70
1:e:716:THR:HA	1:h:259:GLN:HB3	1.74	0.70
1:i:452:THR:HG22	1:i:453:GLY:C	2.17	0.70
1:w:452:THR:HG22	1:w:453:GLY:C	2.17	0.70
1:z:494:ASP:OD2	1:z:532:LYS:NZ	2.25	0.70
1:2:716:THR:HA	1:3:259:GLN:HB3	1.74	0.70
1:H:452:THR:HG22	1:H:453:GLY:C	2.17	0.69
1:J:452:THR:HG22	1:J:453:GLY:C	2.17	0.69
1:e:452:THR:HG22	1:e:453:GLY:C	2.17	0.69
1:g:452:THR:HG22	1:g:453:GLY:C	2.17	0.69
1:l:259:GLN:HB3	1:n:716:THR:HA	1.73	0.69
1:l:494:ASP:OD2	1:l:532:LYS:NZ	2.25	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:s:452:THR:HG22	1:s:453:GLY:C	2.17	0.69
1:1:452:THR:HG22	1:1:453:GLY:C	2.17	0.69
1:C:259:GLN:HB3	1:D:716:THR:HA	1.74	0.69
1:E:241:THR:HG21	1:E:291:PHE:HE1	1.58	0.69
1:H:241:THR:HG21	1:H:291:PHE:HE1	1.58	0.69
1:I:716:THR:HA	1:J:259:GLN:HB3	1.73	0.69
1:M:452:THR:HG22	1:M:453:GLY:C	2.17	0.69
1:P:452:THR:HG22	1:P:453:GLY:C	2.17	0.69
1:S:716:THR:HA	1:d:259:GLN:HB3	1.74	0.69
1:T:241:THR:HG21	1:T:291:PHE:HE1	1.58	0.69
1:V:259:GLN:HB3	1:W:716:THR:HA	1.74	0.69
1:c:494:ASP:OD2	1:c:532:LYS:NZ	2.25	0.69
1:m:452:THR:HG22	1:m:453:GLY:C	2.17	0.69
1:o:241:THR:HG21	1:o:291:PHE:HE1	1.58	0.69
1:t:716:THR:HA	1:6:259:GLN:HB3	1.74	0.69
1:1:241:THR:HG21	1:1:291:PHE:HE1	1.58	0.69
1:3:452:THR:HG22	1:3:453:GLY:C	2.17	0.69
1:7:241:THR:HG21	1:7:291:PHE:HE1	1.58	0.69
1:A:241:THR:HG21	1:A:291:PHE:HE1	1.58	0.69
1:B:494:ASP:OD2	1:B:532:LYS:NZ	2.25	0.69
1:E:494:ASP:OD2	1:E:532:LYS:NZ	2.25	0.69
1:I:494:ASP:OD2	1:I:532:LYS:NZ	2.25	0.69
1:L:241:THR:HG21	1:L:291:PHE:HE1	1.58	0.69
1:Q:715:ASP:OD1	1:Q:719:VAL:N	2.24	0.69
1:R:494:ASP:OD2	1:R:532:LYS:NZ	2.25	0.69
1:Z:452:THR:HG22	1:Z:453:GLY:C	2.17	0.69
1:b:494:ASP:OD2	1:b:532:LYS:NZ	2.25	0.69
1:g:494:ASP:OD2	1:g:532:LYS:NZ	2.25	0.69
1:i:494:ASP:OD2	1:i:532:LYS:NZ	2.25	0.69
1:j:259:GLN:HB3	1:l:716:THR:HA	1.73	0.69
1:p:452:THR:HG22	1:p:453:GLY:C	2.17	0.69
1:q:716:THR:HA	1:y:259:GLN:HB3	1.74	0.69
1:s:241:THR:HG21	1:s:291:PHE:HE1	1.58	0.69
1:4:715:ASP:OD1	1:4:719:VAL:N	2.24	0.69
1:7:494:ASP:OD2	1:7:532:LYS:NZ	2.25	0.69
1:8:452:THR:HG22	1:8:453:GLY:C	2.17	0.69
1:8:494:ASP:OD2	1:8:532:LYS:NZ	2.25	0.69
1:C:241:THR:HG21	1:C:291:PHE:HE1	1.58	0.69
1:C:452:THR:HG22	1:C:453:GLY:C	2.17	0.69
1:M:494:ASP:OD2	1:M:532:LYS:NZ	2.25	0.69
1:P:494:ASP:OD2	1:P:532:LYS:NZ	2.25	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Q:716:THR:HA	1:S:259:GLN:HB3	1.75	0.69
1:n:715:ASP:OD1	1:n:719:VAL:N	2.24	0.69
1:o:494:ASP:OD2	1:o:532:LYS:NZ	2.25	0.69
1:t:494:ASP:OD2	1:t:532:LYS:NZ	2.25	0.69
1:4:452:THR:HG22	1:4:453:GLY:C	2.17	0.69
1:5:715:ASP:OD1	1:5:719:VAL:N	2.24	0.69
1:7:452:THR:HG22	1:7:453:GLY:C	2.17	0.69
1:A:259:GLN:HB3	1:B:716:THR:HA	1.72	0.69
1:E:452:THR:HG22	1:E:453:GLY:C	2.17	0.69
1:G:452:THR:HG22	1:G:453:GLY:C	2.17	0.69
1:G:494:ASP:OD2	1:G:532:LYS:NZ	2.25	0.69
1:L:452:THR:HG22	1:L:453:GLY:C	2.17	0.69
1:N:452:THR:HG22	1:N:453:GLY:C	2.17	0.69
1:Q:452:THR:HG22	1:Q:453:GLY:C	2.17	0.69
1:Q:494:ASP:OD2	1:Q:532:LYS:NZ	2.25	0.69
1:R:241:THR:HG21	1:R:291:PHE:HE1	1.58	0.69
1:R:452:THR:HG22	1:R:453:GLY:C	2.17	0.69
1:T:494:ASP:OD2	1:T:532:LYS:NZ	2.25	0.69
1:a:452:THR:HG22	1:a:453:GLY:C	2.17	0.69
1:k:259:GLN:HB3	1:w:716:THR:HA	1.74	0.69
1:n:452:THR:HG22	1:n:453:GLY:C	2.17	0.69
1:p:494:ASP:OD2	1:p:532:LYS:NZ	2.25	0.69
1:t:452:THR:HG22	1:t:453:GLY:C	2.17	0.69
1:1:494:ASP:OD2	1:1:532:LYS:NZ	2.25	0.69
1:5:452:THR:HG22	1:5:453:GLY:C	2.17	0.69
1:6:241:THR:HG21	1:6:291:PHE:HE1	1.58	0.69
1:A:494:ASP:OD2	1:A:532:LYS:NZ	2.25	0.69
1:J:494:ASP:OD2	1:J:532:LYS:NZ	2.25	0.69
1:S:494:ASP:OD2	1:S:532:LYS:NZ	2.25	0.69
1:W:452:THR:HG22	1:W:453:GLY:C	2.17	0.69
1:g:715:ASP:OD1	1:g:719:VAL:N	2.24	0.69
1:r:452:THR:HG22	1:r:453:GLY:C	2.17	0.69
1:t:241:THR:HG21	1:t:291:PHE:HE1	1.58	0.69
1:5:494:ASP:OD2	1:5:532:LYS:NZ	2.25	0.69
1:6:452:THR:HG22	1:6:453:GLY:C	2.17	0.69
1:C:494:ASP:OD2	1:C:532:LYS:NZ	2.25	0.69
1:F:241:THR:HG21	1:F:291:PHE:HE1	1.58	0.69
1:U:494:ASP:OD2	1:U:532:LYS:NZ	2.25	0.69
1:Y:452:THR:HG22	1:Y:453:GLY:C	2.17	0.69
1:b:452:THR:HG22	1:b:453:GLY:C	2.17	0.69
1:u:494:ASP:OD2	1:u:532:LYS:NZ	2.25	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:5:548:GLU:HB2	1:5:552:VAL:HB	1.75	0.69
1:B:452:THR:HG22	1:B:453:GLY:C	2.17	0.69
1:F:452:THR:HG22	1:F:453:GLY:C	2.17	0.69
1:F:494:ASP:OD2	1:F:532:LYS:NZ	2.25	0.69
1:J:716:THR:HA	1:a:259:GLN:HB3	1.74	0.69
1:L:494:ASP:OD2	1:L:532:LYS:NZ	2.25	0.69
1:Q:548:GLU:HB2	1:Q:552:VAL:HB	1.75	0.69
1:T:548:GLU:HB2	1:T:552:VAL:HB	1.75	0.69
1:W:241:THR:HG21	1:W:291:PHE:HE1	1.58	0.69
1:W:494:ASP:OD2	1:W:532:LYS:NZ	2.25	0.69
1:Y:241:THR:HG21	1:Y:291:PHE:HE1	1.58	0.69
1:a:494:ASP:OD2	1:a:532:LYS:NZ	2.25	0.69
1:d:494:ASP:OD2	1:d:532:LYS:NZ	2.25	0.69
1:e:715:ASP:OD1	1:e:719:VAL:N	2.24	0.69
1:f:452:THR:HG22	1:f:453:GLY:C	2.17	0.69
1:g:450:THR:HG22	1:g:451:PRO:O	1.93	0.69
1:h:452:THR:HG22	1:h:453:GLY:C	2.17	0.69
1:i:450:THR:HG22	1:i:451:PRO:O	1.93	0.69
1:i:715:ASP:OD1	1:i:719:VAL:N	2.24	0.69
1:j:452:THR:HG22	1:j:453:GLY:C	2.17	0.69
1:l:452:THR:HG22	1:l:453:GLY:C	2.17	0.69
1:l:548:GLU:HB2	1:l:552:VAL:HB	1.75	0.69
1:q:452:THR:HG22	1:q:453:GLY:C	2.17	0.69
1:r:241:THR:HG21	1:r:291:PHE:HE1	1.58	0.69
1:v:494:ASP:OD2	1:v:532:LYS:NZ	2.25	0.69
1:z:259:GLN:HB3	1:4:716:THR:HA	1.74	0.69
1:1:548:GLU:HB2	1:1:552:VAL:HB	1.75	0.69
1:6:494:ASP:OD2	1:6:532:LYS:NZ	2.25	0.69
1:C:548:GLU:HB2	1:C:552:VAL:HB	1.75	0.69
1:E:548:GLU:HB2	1:E:552:VAL:HB	1.75	0.69
1:L:548:GLU:HB2	1:L:552:VAL:HB	1.75	0.69
1:N:494:ASP:OD2	1:N:532:LYS:NZ	2.25	0.69
1:S:452:THR:HG22	1:S:453:GLY:C	2.17	0.69
1:U:452:THR:HG22	1:U:453:GLY:C	2.17	0.69
1:W:450:THR:HG22	1:W:451:PRO:O	1.93	0.69
1:X:241:THR:HG21	1:X:291:PHE:HE1	1.57	0.69
1:Y:450:THR:HG22	1:Y:451:PRO:O	1.93	0.69
1:a:241:THR:HG21	1:a:291:PHE:HE1	1.57	0.69
1:d:450:THR:HG22	1:d:451:PRO:O	1.93	0.69
1:j:241:THR:HG21	1:j:291:PHE:HE1	1.58	0.69
1:k:452:THR:HG22	1:k:453:GLY:C	2.17	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:q:241:THR:HG21	1:q:291:PHE:HE1	1.58	0.69
1:r:494:ASP:OD2	1:r:532:LYS:NZ	2.25	0.69
1:u:452:THR:HG22	1:u:453:GLY:C	2.17	0.69
1:v:452:THR:HG22	1:v:453:GLY:C	2.17	0.69
1:w:715:ASP:OD1	1:w:719:VAL:N	2.24	0.69
1:y:548:GLU:HB2	1:y:552:VAL:HB	1.75	0.69
1:z:548:GLU:HB2	1:z:552:VAL:HB	1.75	0.69
1:2:494:ASP:OD2	1:2:532:LYS:NZ	2.25	0.69
1:D:241:THR:HG21	1:D:291:PHE:HE1	1.58	0.69
1:F:259:GLN:HB3	1:R:716:THR:HA	1.75	0.69
1:Q:450:THR:HG22	1:Q:451:PRO:O	1.93	0.69
1:b:716:THR:HA	1:o:259:GLN:HB3	1.73	0.69
1:n:450:THR:HG22	1:n:451:PRO:O	1.93	0.69
1:q:450:THR:HG22	1:q:451:PRO:O	1.93	0.69
1:q:494:ASP:OD2	1:q:532:LYS:NZ	2.25	0.69
1:r:450:THR:HG22	1:r:451:PRO:O	1.93	0.69
1:z:452:THR:HG22	1:z:453:GLY:C	2.17	0.69
1:2:450:THR:HG22	1:2:451:PRO:O	1.93	0.69
1:3:548:GLU:HB2	1:3:552:VAL:HB	1.75	0.69
1:G:715:ASP:OD1	1:G:719:VAL:N	2.24	0.68
1:H:494:ASP:OD2	1:H:532:LYS:NZ	2.25	0.68
1:O:548:GLU:HB2	1:O:552:VAL:HB	1.75	0.68
1:P:241:THR:HG21	1:P:291:PHE:HE1	1.58	0.68
1:P:548:GLU:HB2	1:P:552:VAL:HB	1.75	0.68
1:U:450:THR:HG22	1:U:451:PRO:O	1.93	0.68
1:V:548:GLU:HB2	1:V:552:VAL:HB	1.75	0.68
1:Y:494:ASP:OD2	1:Y:532:LYS:NZ	2.25	0.68
1:Z:259:GLN:HB3	1:a:716:THR:HA	1.74	0.68
1:e:494:ASP:OD2	1:e:532:LYS:NZ	2.25	0.68
1:f:241:THR:HG21	1:f:291:PHE:HE1	1.58	0.68
1:p:715:ASP:OD1	1:p:719:VAL:N	2.24	0.68
1:w:494:ASP:OD2	1:w:532:LYS:NZ	2.25	0.68
1:x:241:THR:HG21	1:x:291:PHE:HE1	1.58	0.68
1:y:494:ASP:OD2	1:y:532:LYS:NZ	2.25	0.68
1:4:450:THR:HG22	1:4:451:PRO:O	1.93	0.68
1:5:450:THR:HG22	1:5:451:PRO:O	1.93	0.68
1:I:450:THR:HG22	1:I:451:PRO:O	1.93	0.68
1:K:241:THR:HG21	1:K:291:PHE:HE1	1.58	0.68
1:N:241:THR:HG21	1:N:291:PHE:HE1	1.58	0.68
1:c:450:THR:HG22	1:c:451:PRO:O	1.93	0.68
1:h:548:GLU:HB2	1:h:552:VAL:HB	1.75	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:j:548:GLU:HB2	1:j:552:VAL:HB	1.75	0.68
1:k:548:GLU:HB2	1:k:552:VAL:HB	1.75	0.68
1:r:259:GLN:HB3	1:x:716:THR:HA	1.73	0.68
1:t:548:GLU:HB2	1:t:552:VAL:HB	1.75	0.68
1:v:450:THR:HG22	1:v:451:PRO:O	1.93	0.68
1:x:452:THR:HG22	1:x:453:GLY:C	2.17	0.68
1:7:548:GLU:HB2	1:7:552:VAL:HB	1.75	0.68
1:8:241:THR:HG21	1:8:291:PHE:HE1	1.58	0.68
1:8:548:GLU:HB2	1:8:552:VAL:HB	1.75	0.68
1:E:715:ASP:OD1	1:E:719:VAL:N	2.24	0.68
1:F:450:THR:HG22	1:F:451:PRO:O	1.93	0.68
1:J:450:THR:HG22	1:J:451:PRO:O	1.93	0.68
1:M:450:THR:HG22	1:M:451:PRO:O	1.93	0.68
1:X:716:THR:HA	1:Y:259:GLN:HB3	1.73	0.68
1:Z:450:THR:HG22	1:Z:451:PRO:O	1.93	0.68
1:c:241:THR:HG21	1:c:291:PHE:HE1	1.58	0.68
1:e:450:THR:HG22	1:e:451:PRO:O	1.93	0.68
1:f:548:GLU:HB2	1:f:552:VAL:HB	1.75	0.68
1:m:450:THR:HG22	1:m:451:PRO:O	1.93	0.68
1:v:548:GLU:HB2	1:v:552:VAL:HB	1.75	0.68
1:w:450:THR:HG22	1:w:451:PRO:O	1.93	0.68
1:3:494:ASP:OD2	1:3:532:LYS:NZ	2.25	0.68
1:7:715:ASP:OD1	1:7:719:VAL:N	2.24	0.68
1:G:241:THR:HG21	1:G:291:PHE:HE1	1.58	0.68
1:H:259:GLN:HB3	1:Z:716:THR:HA	1.74	0.68
1:I:241:THR:HG21	1:I:291:PHE:HE1	1.58	0.68
1:L:716:THR:HA	1:b:259:GLN:HB3	1.75	0.68
1:R:548:GLU:HB2	1:R:552:VAL:HB	1.75	0.68
1:V:452:THR:HG22	1:V:453:GLY:C	2.17	0.68
1:V:494:ASP:OD2	1:V:532:LYS:NZ	2.25	0.68
1:m:494:ASP:OD2	1:m:532:LYS:NZ	2.25	0.68
1:n:241:THR:HG21	1:n:291:PHE:HE1	1.58	0.68
1:s:494:ASP:OD2	1:s:532:LYS:NZ	2.25	0.68
1:4:241:THR:HG21	1:4:291:PHE:HE1	1.58	0.68
1:6:450:THR:HG22	1:6:451:PRO:O	1.93	0.68
1:8:450:THR:HG22	1:8:451:PRO:O	1.93	0.68
1:K:259:GLN:HB3	1:7:716:THR:HA	1.73	0.68
1:O:494:ASP:OD2	1:O:532:LYS:NZ	2.25	0.68
1:U:548:GLU:HB2	1:U:552:VAL:HB	1.75	0.68
1:X:452:THR:HG22	1:X:453:GLY:C	2.17	0.68
1:X:494:ASP:OD2	1:X:532:LYS:NZ	2.25	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Z:494:ASP:OD2	1:Z:532:LYS:NZ	2.25	0.68
1:m:716:THR:HA	1:s:259:GLN:HB3	1.74	0.68
1:n:259:GLN:HB3	1:r:716:THR:HA	1.74	0.68
1:n:548:GLU:HB2	1:n:552:VAL:HB	1.75	0.68
1:o:548:GLU:HB2	1:o:552:VAL:HB	1.75	0.68
1:p:241:THR:HG21	1:p:291:PHE:HE1	1.58	0.68
1:x:494:ASP:OD2	1:x:532:LYS:NZ	2.25	0.68
1:2:241:THR:HG21	1:2:291:PHE:HE1	1.58	0.68
1:A:548:GLU:HB2	1:A:552:VAL:HB	1.75	0.68
1:B:259:GLN:HB3	1:C:716:THR:HA	1.75	0.68
1:B:715:ASP:OD1	1:B:719:VAL:N	2.24	0.68
1:D:259:GLN:HB3	1:E:716:THR:HA	1.73	0.68
1:M:241:THR:HG21	1:M:291:PHE:HE1	1.58	0.68
1:O:450:THR:HG22	1:O:451:PRO:O	1.93	0.68
1:P:450:THR:HG22	1:P:451:PRO:O	1.93	0.68
1:X:450:THR:HG22	1:X:451:PRO:O	1.93	0.68
1:b:715:ASP:OD1	1:b:719:VAL:N	2.24	0.68
1:d:241:THR:HG21	1:d:291:PHE:HE1	1.58	0.68
1:n:494:ASP:OD2	1:n:532:LYS:NZ	2.25	0.68
1:v:241:THR:HG21	1:v:291:PHE:HE1	1.58	0.68
1:x:450:THR:HG22	1:x:451:PRO:O	1.93	0.68
1:y:452:THR:HG22	1:y:453:GLY:C	2.17	0.68
1:3:450:THR:HG22	1:3:451:PRO:O	1.93	0.68
1:4:494:ASP:OD2	1:4:532:LYS:NZ	2.25	0.68
1:4:548:GLU:HB2	1:4:552:VAL:HB	1.75	0.68
1:D:450:THR:HG22	1:D:451:PRO:O	1.93	0.68
1:L:450:THR:HG22	1:L:451:PRO:O	1.93	0.68
1:Z:483:TYR:HH	1:Z:506:THR:HG1	1.42	0.68
1:5:241:THR:HG21	1:5:291:PHE:HE1	1.58	0.68
1:C:450:THR:HG22	1:C:451:PRO:O	1.93	0.68
1:K:450:THR:HG22	1:K:451:PRO:O	1.93	0.68
1:U:241:THR:HG21	1:U:291:PHE:HE1	1.58	0.68
1:W:715:ASP:OD1	1:W:719:VAL:N	2.24	0.68
1:Z:241:THR:HG21	1:Z:291:PHE:HE1	1.58	0.68
1:f:450:THR:HG22	1:f:451:PRO:O	1.93	0.68
1:h:450:THR:HG22	1:h:451:PRO:O	1.93	0.68
1:j:450:THR:HG22	1:j:451:PRO:O	1.93	0.68
1:k:450:THR:HG22	1:k:451:PRO:O	1.93	0.68
1:m:483:TYR:HH	1:m:506:THR:HG1	1.42	0.68
1:5:259:GLN:HB3	1:8:716:THR:HA	1.73	0.68
1:J:241:THR:HG21	1:J:291:PHE:HE1	1.58	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:548:GLU:HB2	1:K:552:VAL:HB	1.75	0.68
1:Q:241:THR:HG21	1:Q:291:PHE:HE1	1.58	0.68
1:b:241:THR:HG21	1:b:291:PHE:HE1	1.58	0.68
1:b:548:GLU:HB2	1:b:552:VAL:HB	1.75	0.68
1:h:241:THR:HG21	1:h:291:PHE:HE1	1.58	0.68
1:l:450:THR:HG22	1:l:451:PRO:O	1.93	0.68
1:q:548:GLU:HB2	1:q:552:VAL:HB	1.75	0.68
1:t:450:THR:HG22	1:t:451:PRO:O	1.93	0.68
1:y:241:THR:HG21	1:y:291:PHE:HE1	1.58	0.68
1:y:450:THR:HG22	1:y:451:PRO:O	1.93	0.68
1:A:450:THR:HG22	1:A:451:PRO:O	1.93	0.68
1:B:548:GLU:HB2	1:B:552:VAL:HB	1.75	0.68
1:E:450:THR:HG22	1:E:451:PRO:O	1.93	0.68
1:J:548:GLU:HB2	1:J:552:VAL:HB	1.75	0.68
1:N:716:THR:HA	1:m:259:GLN:HB3	1.75	0.68
1:R:450:THR:HG22	1:R:451:PRO:O	1.93	0.68
1:V:450:THR:HG22	1:V:451:PRO:O	1.93	0.68
1:X:548:GLU:HB2	1:X:552:VAL:HB	1.75	0.68
1:Z:548:GLU:HB2	1:Z:552:VAL:HB	1.75	0.68
1:i:241:THR:HG21	1:i:291:PHE:HE1	1.58	0.68
1:o:450:THR:HG22	1:o:451:PRO:O	1.93	0.68
1:s:450:THR:HG22	1:s:451:PRO:O	1.93	0.68
1:z:450:THR:HG22	1:z:451:PRO:O	1.93	0.68
1:1:715:ASP:OD1	1:1:719:VAL:N	2.24	0.68
1:7:450:THR:HG22	1:7:451:PRO:O	1.93	0.68
1:B:241:THR:HG21	1:B:291:PHE:HE1	1.58	0.67
1:D:548:GLU:HB2	1:D:552:VAL:HB	1.75	0.67
1:H:450:THR:HG22	1:H:451:PRO:O	1.93	0.67
1:T:715:ASP:OD1	1:T:719:VAL:N	2.24	0.67
1:V:241:THR:HG21	1:V:291:PHE:HE1	1.58	0.67
1:Y:716:THR:HA	1:4:259:GLN:HB3	1.75	0.67
1:q:715:ASP:OD1	1:q:719:VAL:N	2.24	0.67
1:x:548:GLU:HB2	1:x:552:VAL:HB	1.75	0.67
1:N:450:THR:HG22	1:N:451:PRO:O	1.93	0.67
1:P:716:THR:HA	1:Q:259:GLN:HB3	1.73	0.67
1:W:548:GLU:HB2	1:W:552:VAL:HB	1.75	0.67
1:g:241:THR:HG21	1:g:291:PHE:HE1	1.58	0.67
1:k:241:THR:HG21	1:k:291:PHE:HE1	1.58	0.67
1:m:241:THR:HG21	1:m:291:PHE:HE1	1.58	0.67
1:m:548:GLU:HB2	1:m:552:VAL:HB	1.75	0.67
1:u:548:GLU:HB2	1:u:552:VAL:HB	1.75	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:548:GLU:HB2	1:F:552:VAL:HB	1.75	0.67
1:K:497:ASN:HD21	1:8:455:THR:HA	1.59	0.67
1:M:548:GLU:HB2	1:M:552:VAL:HB	1.75	0.67
1:a:450:THR:HG22	1:a:451:PRO:O	1.93	0.67
1:e:241:THR:HG21	1:e:291:PHE:HE1	1.58	0.67
1:l:241:THR:HG21	1:l:291:PHE:HE1	1.57	0.67
1:B:450:THR:HG22	1:B:451:PRO:O	1.93	0.67
1:G:548:GLU:HB2	1:G:552:VAL:HB	1.75	0.67
1:b:450:THR:HG22	1:b:451:PRO:O	1.93	0.67
1:p:548:GLU:HB2	1:p:552:VAL:HB	1.75	0.67
1:1:450:THR:HG22	1:1:451:PRO:O	1.93	0.67
1:H:548:GLU:HB2	1:H:552:VAL:HB	1.75	0.67
1:S:548:GLU:HB2	1:S:552:VAL:HB	1.75	0.67
1:Y:325:GLN:NE2	1:Y:330:THR:OG1	2.28	0.67
1:r:325:GLN:NE2	1:r:330:THR:OG1	2.28	0.67
1:s:548:GLU:HB2	1:s:552:VAL:HB	1.75	0.67
1:6:548:GLU:HB2	1:6:552:VAL:HB	1.75	0.67
1:K:492:SER:H	1:8:459:ARG:NH1	1.93	0.67
1:O:241:THR:HG21	1:O:291:PHE:HE1	1.57	0.67
1:R:325:GLN:NE2	1:R:330:THR:OG1	2.28	0.67
1:T:450:THR:HG22	1:T:451:PRO:O	1.93	0.67
1:a:693:ARG:NH2	1:8:390:SER:O	2.27	0.67
1:w:241:THR:HG21	1:w:291:PHE:HE1	1.58	0.67
1:5:325:GLN:NE2	1:5:330:THR:OG1	2.28	0.67
1:B:459:ARG:NH1	1:J:492:SER:H	1.93	0.67
1:D:413:TYR:OH	1:D:641:HIS:O	2.13	0.67
1:E:492:SER:H	1:F:459:ARG:NH1	1.93	0.67
1:I:325:GLN:NE2	1:I:330:THR:OG1	2.28	0.67
1:K:413:TYR:OH	1:K:641:HIS:O	2.13	0.67
1:Q:325:GLN:NE2	1:Q:330:THR:OG1	2.28	0.67
1:S:241:THR:HG21	1:S:291:PHE:HE1	1.58	0.67
1:c:548:GLU:HB2	1:c:552:VAL:HB	1.75	0.67
1:f:325:GLN:NE2	1:f:330:THR:OG1	2.28	0.67
1:j:325:GLN:NE2	1:j:330:THR:OG1	2.28	0.67
1:n:325:GLN:NE2	1:n:330:THR:OG1	2.28	0.67
1:t:325:GLN:NE2	1:t:330:THR:OG1	2.28	0.67
1:t:413:TYR:OH	1:t:641:HIS:O	2.13	0.67
1:u:241:THR:HG21	1:u:291:PHE:HE1	1.57	0.67
1:u:450:THR:HG22	1:u:451:PRO:O	1.93	0.67
1:z:241:THR:HG21	1:z:291:PHE:HE1	1.58	0.67
1:8:715:ASP:OD1	1:8:719:VAL:N	2.24	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:492:SER:H	1:P:459:ARG:NH1	1.93	0.67
1:I:548:GLU:HB2	1:I:552:VAL:HB	1.75	0.67
1:P:715:ASP:OD1	1:P:719:VAL:N	2.24	0.67
1:c:325:GLN:NE2	1:c:330:THR:OG1	2.28	0.67
1:p:413:TYR:OH	1:p:641:HIS:O	2.13	0.67
1:4:325:GLN:NE2	1:4:330:THR:OG1	2.28	0.67
1:6:459:ARG:NH1	1:7:492:SER:H	1.93	0.67
1:C:325:GLN:NE2	1:C:330:THR:OG1	2.28	0.67
1:H:413:TYR:OH	1:H:641:HIS:O	2.13	0.67
1:L:325:GLN:NE2	1:L:330:THR:OG1	2.28	0.67
1:R:413:TYR:OH	1:R:641:HIS:O	2.13	0.67
1:S:459:ARG:NH1	1:U:492:SER:H	1.93	0.67
1:W:325:GLN:NE2	1:W:330:THR:OG1	2.28	0.67
1:a:548:GLU:HB2	1:a:552:VAL:HB	1.75	0.67
1:s:413:TYR:OH	1:s:641:HIS:O	2.13	0.67
1:u:459:ARG:NH1	1:v:492:SER:H	1.93	0.67
1:z:492:SER:H	1:2:459:ARG:NH1	1.93	0.67
1:3:241:THR:HG21	1:3:291:PHE:HE1	1.58	0.67
1:6:715:ASP:OD1	1:6:719:VAL:N	2.24	0.67
1:G:413:TYR:OH	1:G:641:HIS:O	2.13	0.67
1:H:715:ASP:OD1	1:H:719:VAL:N	2.24	0.67
1:I:413:TYR:OH	1:I:641:HIS:O	2.13	0.67
1:M:492:SER:H	1:b:459:ARG:NH1	1.93	0.67
1:S:450:THR:HG22	1:S:451:PRO:O	1.93	0.67
1:Z:413:TYR:OH	1:Z:641:HIS:O	2.13	0.67
1:c:413:TYR:OH	1:c:641:HIS:O	2.13	0.67
1:o:325:GLN:NE2	1:o:330:THR:OG1	2.28	0.67
1:o:413:TYR:OH	1:o:641:HIS:O	2.13	0.67
1:s:715:ASP:OD1	1:s:719:VAL:N	2.24	0.67
1:2:413:TYR:OH	1:2:641:HIS:O	2.13	0.67
1:A:325:GLN:NE2	1:A:330:THR:OG1	2.28	0.66
1:B:413:TYR:OH	1:B:641:HIS:O	2.13	0.66
1:C:459:ARG:NH1	1:b:492:SER:H	1.93	0.66
1:E:459:ARG:NH1	1:Q:492:SER:H	1.93	0.66
1:F:715:ASP:OD1	1:F:719:VAL:N	2.24	0.66
1:S:413:TYR:OH	1:S:641:HIS:O	2.13	0.66
1:b:413:TYR:OH	1:b:641:HIS:O	2.13	0.66
1:d:413:TYR:OH	1:d:641:HIS:O	2.13	0.66
1:d:548:GLU:HB2	1:d:552:VAL:HB	1.75	0.66
1:g:325:GLN:NE2	1:g:330:THR:OG1	2.28	0.66
1:i:325:GLN:NE2	1:i:330:THR:OG1	2.28	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:m:413:TYR:OH	1:m:641:HIS:O	2.13	0.66
1:r:548:GLU:HB2	1:r:552:VAL:HB	1.75	0.66
1:u:413:TYR:OH	1:u:641:HIS:O	2.13	0.66
1:w:548:GLU:HB2	1:w:552:VAL:HB	1.75	0.66
1:x:413:TYR:OH	1:x:641:HIS:O	2.13	0.66
1:A:413:TYR:OH	1:A:641:HIS:O	2.13	0.66
1:N:459:ARG:NH1	1:P:492:SER:H	1.92	0.66
1:R:285:ASN:O	1:R:286:ARG:HG3	1.96	0.66
1:R:459:ARG:NH1	1:S:492:SER:H	1.93	0.66
1:T:285:ASN:O	1:T:286:ARG:HG3	1.96	0.66
1:T:492:SER:H	1:l:459:ARG:NH1	1.94	0.66
1:V:413:TYR:OH	1:V:641:HIS:O	2.13	0.66
1:X:413:TYR:OH	1:X:641:HIS:O	2.13	0.66
1:Y:548:GLU:HB2	1:Y:552:VAL:HB	1.75	0.66
1:Z:459:ARG:NH1	1:4:492:SER:H	1.93	0.66
1:e:548:GLU:HB2	1:e:552:VAL:HB	1.75	0.66
1:j:285:ASN:O	1:j:286:ARG:HG3	1.96	0.66
1:k:413:TYR:OH	1:k:641:HIS:O	2.13	0.66
1:m:285:ASN:O	1:m:286:ARG:HG3	1.96	0.66
1:n:413:TYR:OH	1:n:641:HIS:O	2.13	0.66
1:t:285:ASN:O	1:t:286:ARG:HG3	1.96	0.66
1:v:413:TYR:OH	1:v:641:HIS:O	2.13	0.66
1:1:285:ASN:O	1:1:286:ARG:HG3	1.96	0.66
1:2:548:GLU:HB2	1:2:552:VAL:HB	1.75	0.66
1:D:459:ARG:NH1	1:N:492:SER:H	1.93	0.66
1:F:413:TYR:OH	1:F:641:HIS:O	2.13	0.66
1:H:492:SER:H	1:Y:459:ARG:NH1	1.93	0.66
1:N:325:GLN:NE2	1:N:330:THR:OG1	2.28	0.66
1:N:548:GLU:HB2	1:N:552:VAL:HB	1.75	0.66
1:P:413:TYR:OH	1:P:641:HIS:O	2.13	0.66
1:U:413:TYR:OH	1:U:641:HIS:O	2.13	0.66
1:X:497:ASN:HD21	1:e:455:THR:HA	1.61	0.66
1:Y:434:MET:HE1	1:Y:470:ILE:HG23	1.78	0.66
1:a:325:GLN:NE2	1:a:330:THR:OG1	2.28	0.66
1:f:285:ASN:O	1:f:286:ARG:HG3	1.96	0.66
1:h:325:GLN:NE2	1:h:330:THR:OG1	2.28	0.66
1:h:413:TYR:OH	1:h:641:HIS:O	2.13	0.66
1:y:413:TYR:OH	1:y:641:HIS:O	2.13	0.66
1:1:483:TYR:HH	1:1:506:THR:HG1	1.42	0.66
1:4:413:TYR:OH	1:4:641:HIS:O	2.13	0.66
1:6:413:TYR:OH	1:6:641:HIS:O	2.13	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:6:434:MET:HE1	1:6:470:ILE:HG23	1.78	0.66
1:B:492:SER:H	1:L:459:ARG:NH1	1.94	0.66
1:F:434:MET:HE1	1:F:470:ILE:HG23	1.78	0.66
1:L:434:MET:HE1	1:L:470:ILE:HG23	1.78	0.66
1:Z:285:ASN:O	1:Z:286:ARG:HG3	1.96	0.66
1:e:285:ASN:O	1:e:286:ARG:HG3	1.96	0.66
1:k:325:GLN:NE2	1:k:330:THR:OG1	2.28	0.66
1:p:483:TYR:HH	1:p:506:THR:HG1	1.43	0.66
1:r:434:MET:HE1	1:r:470:ILE:HG23	1.78	0.66
1:s:434:MET:HE1	1:s:470:ILE:HG23	1.78	0.66
1:w:285:ASN:O	1:w:286:ARG:HG3	1.96	0.66
1:8:413:TYR:OH	1:8:641:HIS:O	2.13	0.66
1:C:434:MET:HE1	1:C:470:ILE:HG23	1.78	0.66
1:F:325:GLN:NE2	1:F:330:THR:OG1	2.28	0.66
1:H:434:MET:HE1	1:H:470:ILE:HG23	1.78	0.66
1:Q:413:TYR:OH	1:Q:641:HIS:O	2.13	0.66
1:V:492:SER:H	1:X:459:ARG:NH1	1.92	0.66
1:Y:413:TYR:OH	1:Y:641:HIS:O	2.13	0.66
1:g:285:ASN:O	1:g:286:ARG:HG3	1.96	0.66
1:h:434:MET:HE1	1:h:470:ILE:HG23	1.78	0.66
1:i:548:GLU:HB2	1:i:552:VAL:HB	1.75	0.66
1:k:434:MET:HE1	1:k:470:ILE:HG23	1.78	0.66
1:m:459:ARG:NH1	1:n:492:SER:H	1.94	0.66
1:r:413:TYR:OH	1:r:641:HIS:O	2.13	0.66
1:r:459:ARG:NH1	1:s:492:SER:H	1.94	0.66
1:1:413:TYR:OH	1:1:641:HIS:O	2.13	0.66
1:1:434:MET:HE1	1:1:470:ILE:HG23	1.78	0.66
1:6:483:TYR:HH	1:6:506:THR:HG1	1.43	0.66
1:A:459:ARG:NH1	1:G:492:SER:H	1.94	0.66
1:G:450:THR:HG22	1:G:451:PRO:O	1.93	0.66
1:Q:434:MET:HE1	1:Q:470:ILE:HG23	1.78	0.66
1:T:434:MET:HE1	1:T:470:ILE:HG23	1.78	0.66
1:V:285:ASN:O	1:V:286:ARG:HG3	1.96	0.66
1:V:497:ASN:HD21	1:X:455:THR:HA	1.61	0.66
1:X:434:MET:HE1	1:X:470:ILE:HG23	1.78	0.66
1:b:325:GLN:NE2	1:b:330:THR:OG1	2.28	0.66
1:i:459:ARG:NH1	1:j:492:SER:H	1.93	0.66
1:k:285:ASN:O	1:k:286:ARG:HG3	1.96	0.66
1:p:450:THR:HG22	1:p:451:PRO:O	1.93	0.66
1:y:285:ASN:O	1:y:286:ARG:HG3	1.96	0.66
1:6:325:GLN:NE2	1:6:330:THR:OG1	2.28	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:492:SER:H	1:I:459:ARG:NH1	1.94	0.66
1:O:459:ARG:NH1	1:m:492:SER:H	1.94	0.66
1:S:285:ASN:O	1:S:286:ARG:HG3	1.96	0.66
1:T:413:TYR:OH	1:T:641:HIS:O	2.13	0.66
1:V:434:MET:HE1	1:V:470:ILE:HG23	1.78	0.66
1:Z:492:SER:H	1:3:459:ARG:NH1	1.94	0.66
1:c:459:ARG:NH1	1:o:492:SER:H	1.94	0.66
1:g:548:GLU:HB2	1:g:552:VAL:HB	1.75	0.66
1:g:716:THR:HA	1:l:259:GLN:HB3	1.77	0.66
1:h:285:ASN:O	1:h:286:ARG:HG3	1.96	0.66
1:i:285:ASN:O	1:i:286:ARG:HG3	1.96	0.66
1:t:459:ARG:NH1	1:u:492:SER:H	1.94	0.66
1:x:285:ASN:O	1:x:286:ARG:HG3	1.96	0.66
1:2:434:MET:HE1	1:2:470:ILE:HG23	1.78	0.66
1:5:413:TYR:OH	1:5:641:HIS:O	2.13	0.66
1:5:434:MET:HE1	1:5:470:ILE:HG23	1.78	0.66
1:B:325:GLN:NE2	1:B:330:THR:OG1	2.28	0.66
1:I:285:ASN:O	1:I:286:ARG:HG3	1.96	0.66
1:W:413:TYR:OH	1:W:641:HIS:O	2.13	0.66
1:X:492:SER:H	1:e:459:ARG:NH1	1.93	0.66
1:a:285:ASN:O	1:a:286:ARG:HG3	1.96	0.66
1:c:285:ASN:O	1:c:286:ARG:HG3	1.96	0.66
1:d:285:ASN:O	1:d:286:ARG:HG3	1.96	0.66
1:d:434:MET:HE1	1:d:470:ILE:HG23	1.78	0.66
1:f:413:TYR:OH	1:f:641:HIS:O	2.13	0.66
1:j:413:TYR:OH	1:j:641:HIS:O	2.13	0.66
1:l:285:ASN:O	1:l:286:ARG:HG3	1.96	0.66
1:o:459:ARG:NH1	1:p:492:SER:H	1.94	0.66
1:p:285:ASN:O	1:p:286:ARG:HG3	1.96	0.66
1:u:285:ASN:O	1:u:286:ARG:HG3	1.96	0.66
1:v:325:GLN:NE2	1:v:330:THR:OG1	2.28	0.66
1:x:434:MET:HE1	1:x:470:ILE:HG23	1.78	0.66
1:y:434:MET:HE1	1:y:470:ILE:HG23	1.78	0.66
1:z:285:ASN:O	1:z:286:ARG:HG3	1.96	0.66
1:2:285:ASN:O	1:2:286:ARG:HG3	1.96	0.66
1:D:325:GLN:NE2	1:D:330:THR:OG1	2.28	0.66
1:E:413:TYR:OH	1:E:641:HIS:O	2.13	0.66
1:E:434:MET:HE1	1:E:470:ILE:HG23	1.78	0.66
1:G:285:ASN:O	1:G:286:ARG:HG3	1.96	0.66
1:J:285:ASN:O	1:J:286:ARG:HG3	1.96	0.66
1:K:325:GLN:NE2	1:K:330:THR:OG1	2.28	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:285:ASN:O	1:M:286:ARG:HG3	1.96	0.66
1:N:285:ASN:O	1:N:286:ARG:HG3	1.96	0.66
1:O:413:TYR:OH	1:O:641:HIS:O	2.13	0.66
1:T:325:GLN:NE2	1:T:330:THR:OG1	2.28	0.66
1:W:285:ASN:O	1:W:286:ARG:HG3	1.96	0.66
1:X:285:ASN:O	1:X:286:ARG:HG3	1.96	0.66
1:Z:325:GLN:NE2	1:Z:330:THR:OG1	2.28	0.66
1:l:434:MET:HE1	1:l:470:ILE:HG23	1.78	0.66
1:q:413:TYR:OH	1:q:641:HIS:O	2.13	0.66
1:3:434:MET:HE1	1:3:470:ILE:HG23	1.78	0.66
1:5:492:SER:H	1:7:459:ARG:NH1	1.94	0.66
1:B:285:ASN:O	1:B:286:ARG:HG3	1.96	0.66
1:D:455:THR:HA	1:N:497:ASN:HD21	1.61	0.66
1:N:455:THR:HA	1:P:497:ASN:HD21	1.60	0.66
1:O:325:GLN:NE2	1:O:330:THR:OG1	2.28	0.66
1:Q:285:ASN:O	1:Q:286:ARG:HG3	1.96	0.66
1:R:492:SER:H	1:U:459:ARG:NH1	1.94	0.66
1:U:325:GLN:NE2	1:U:330:THR:OG1	2.28	0.66
1:V:459:ARG:NH1	1:e:492:SER:H	1.93	0.66
1:b:285:ASN:O	1:b:286:ARG:HG3	1.96	0.66
1:i:434:MET:HE1	1:i:470:ILE:HG23	1.78	0.66
1:m:325:GLN:NE2	1:m:330:THR:OG1	2.28	0.66
1:w:455:THR:HA	1:x:497:ASN:HD21	1.61	0.66
1:x:455:THR:HA	1:y:497:ASN:HD21	1.61	0.66
1:z:434:MET:HE1	1:z:470:ILE:HG23	1.78	0.66
1:1:325:GLN:NE2	1:1:330:THR:OG1	2.28	0.66
1:3:413:TYR:OH	1:3:641:HIS:O	2.13	0.66
1:5:285:ASN:O	1:5:286:ARG:HG3	1.96	0.66
1:7:413:TYR:OH	1:7:641:HIS:O	2.13	0.66
1:E:285:ASN:O	1:E:286:ARG:HG3	1.96	0.65
1:O:285:ASN:O	1:O:286:ARG:HG3	1.96	0.65
1:R:434:MET:HE1	1:R:470:ILE:HG23	1.78	0.65
1:b:434:MET:HE1	1:b:470:ILE:HG23	1.78	0.65
1:d:715:ASP:OD1	1:d:719:VAL:N	2.24	0.65
1:g:434:MET:HE1	1:g:470:ILE:HG23	1.78	0.65
1:i:455:THR:HA	1:j:497:ASN:HD21	1.61	0.65
1:j:459:ARG:NH1	1:k:492:SER:H	1.94	0.65
1:n:285:ASN:O	1:n:286:ARG:HG3	1.96	0.65
1:q:285:ASN:O	1:q:286:ARG:HG3	1.96	0.65
1:t:434:MET:HE1	1:t:470:ILE:HG23	1.78	0.65
1:w:459:ARG:NH1	1:x:492:SER:H	1.93	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:4:285:ASN:O	1:4:286:ARG:HG3	1.96	0.65
1:7:434:MET:HE1	1:7:470:ILE:HG23	1.78	0.65
1:B:434:MET:HE1	1:B:470:ILE:HG23	1.78	0.65
1:B:455:THR:HA	1:J:497:ASN:HD21	1.61	0.65
1:D:285:ASN:O	1:D:286:ARG:HG3	1.96	0.65
1:H:497:ASN:HD21	1:Y:455:THR:HA	1.62	0.65
1:J:413:TYR:OH	1:J:641:HIS:O	2.13	0.65
1:K:459:ARG:NH1	1:a:492:SER:H	1.94	0.65
1:M:413:TYR:OH	1:M:641:HIS:O	2.13	0.65
1:M:434:MET:HE1	1:M:470:ILE:HG23	1.78	0.65
1:M:497:ASN:HD21	1:b:455:THR:HA	1.61	0.65
1:O:434:MET:HE1	1:O:470:ILE:HG23	1.78	0.65
1:W:434:MET:HE1	1:W:470:ILE:HG23	1.78	0.65
1:X:325:GLN:NE2	1:X:330:THR:OG1	2.28	0.65
1:e:413:TYR:OH	1:e:641:HIS:O	2.13	0.65
1:i:492:SER:H	1:k:459:ARG:NH1	1.94	0.65
1:j:434:MET:HE1	1:j:470:ILE:HG23	1.78	0.65
1:w:492:SER:H	1:y:459:ARG:NH1	1.93	0.65
1:x:325:GLN:NE2	1:x:330:THR:OG1	2.28	0.65
1:3:285:ASN:O	1:3:286:ARG:HG3	1.96	0.65
1:3:325:GLN:NE2	1:3:330:THR:OG1	2.28	0.65
1:7:285:ASN:O	1:7:286:ARG:HG3	1.96	0.65
1:F:492:SER:H	1:Q:459:ARG:NH1	1.93	0.65
1:J:434:MET:HE1	1:J:470:ILE:HG23	1.78	0.65
1:N:413:TYR:OH	1:N:641:HIS:O	2.13	0.65
1:P:285:ASN:O	1:P:286:ARG:HG3	1.96	0.65
1:S:325:GLN:NE2	1:S:330:THR:OG1	2.28	0.65
1:S:434:MET:HE1	1:S:470:ILE:HG23	1.78	0.65
1:a:459:ARG:NH1	1:8:492:SER:H	1.93	0.65
1:h:715:ASP:OD1	1:h:719:VAL:N	2.24	0.65
1:n:434:MET:HE1	1:n:470:ILE:HG23	1.78	0.65
1:u:325:GLN:NE2	1:u:330:THR:OG1	2.28	0.65
1:u:434:MET:HE1	1:u:470:ILE:HG23	1.78	0.65
1:w:413:TYR:OH	1:w:641:HIS:O	2.13	0.65
1:4:434:MET:HE1	1:4:470:ILE:HG23	1.78	0.65
1:5:459:ARG:NH1	1:6:492:SER:H	1.94	0.65
1:8:285:ASN:O	1:8:286:ARG:HG3	1.96	0.65
1:8:325:GLN:NE2	1:8:330:THR:OG1	2.28	0.65
1:F:285:ASN:O	1:F:286:ARG:HG3	1.96	0.65
1:J:459:ARG:NH1	1:L:492:SER:H	1.94	0.65
1:J:715:ASP:OD1	1:J:719:VAL:N	2.24	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:285:ASN:O	1:K:286:ARG:HG3	1.96	0.65
1:M:325:GLN:NE2	1:M:330:THR:OG1	2.28	0.65
1:M:715:ASP:OD1	1:M:719:VAL:N	2.24	0.65
1:Y:285:ASN:O	1:Y:286:ARG:HG3	1.96	0.65
1:a:413:TYR:OH	1:a:641:HIS:O	2.13	0.65
1:d:459:ARG:NH1	1:l:492:SER:H	1.95	0.65
1:f:434:MET:HE1	1:f:470:ILE:HG23	1.78	0.65
1:p:325:GLN:NE2	1:p:330:THR:OG1	2.28	0.65
1:q:434:MET:HE1	1:q:470:ILE:HG23	1.78	0.65
1:r:455:THR:HA	1:s:497:ASN:HD21	1.62	0.65
1:x:459:ARG:NH1	1:y:492:SER:H	1.93	0.65
1:z:325:GLN:NE2	1:z:330:THR:OG1	2.28	0.65
1:3:483:TYR:HH	1:3:506:THR:HG1	1.44	0.65
1:6:285:ASN:O	1:6:286:ARG:HG3	1.96	0.65
1:D:497:ASN:HD21	1:P:455:THR:HA	1.61	0.65
1:G:459:ARG:NH1	1:I:492:SER:H	1.94	0.65
1:J:325:GLN:NE2	1:J:330:THR:OG1	2.28	0.65
1:P:325:GLN:NE2	1:P:330:THR:OG1	2.28	0.65
1:W:459:ARG:NH1	1:Y:492:SER:H	1.94	0.65
1:f:459:ARG:NH1	1:h:492:SER:H	1.94	0.65
1:k:715:ASP:OD1	1:k:719:VAL:N	2.24	0.65
1:q:459:ARG:NH1	1:r:492:SER:H	1.94	0.65
1:s:285:ASN:O	1:s:286:ARG:HG3	1.96	0.65
1:v:285:ASN:O	1:v:286:ARG:HG3	1.96	0.65
1:2:715:ASP:OD1	1:2:719:VAL:N	2.24	0.65
1:H:285:ASN:O	1:H:286:ARG:HG3	1.96	0.65
1:O:483:TYR:HH	1:O:506:THR:HG1	1.45	0.65
1:R:455:THR:HA	1:S:497:ASN:HD21	1.61	0.65
1:f:492:SER:H	1:g:459:ARG:NH1	1.94	0.65
1:g:413:TYR:OH	1:g:641:HIS:O	2.13	0.65
1:l:325:GLN:NE2	1:l:330:THR:OG1	2.28	0.65
1:l:413:TYR:OH	1:l:641:HIS:O	2.13	0.65
1:r:285:ASN:O	1:r:286:ARG:HG3	1.96	0.65
1:z:413:TYR:OH	1:z:641:HIS:O	2.13	0.65
1:A:285:ASN:O	1:A:286:ARG:HG3	1.96	0.65
1:C:285:ASN:O	1:C:286:ARG:HG3	1.96	0.65
1:C:492:SER:H	1:M:459:ARG:NH1	1.94	0.65
1:G:325:GLN:NE2	1:G:330:THR:OG1	2.28	0.65
1:L:285:ASN:O	1:L:286:ARG:HG3	1.96	0.65
1:U:285:ASN:O	1:U:286:ARG:HG3	1.96	0.65
1:V:715:ASP:OD1	1:V:719:VAL:N	2.24	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:e:434:MET:HE1	1:e:470:ILE:HG23	1.78	0.65
1:i:413:TYR:OH	1:i:641:HIS:O	2.13	0.65
1:o:285:ASN:O	1:o:286:ARG:HG3	1.96	0.65
1:A:434:MET:HE1	1:A:470:ILE:HG23	1.78	0.65
1:O:497:ASN:HD21	1:n:455:THR:HA	1.62	0.65
1:Z:434:MET:HE1	1:Z:470:ILE:HG23	1.78	0.65
1:f:497:ASN:HD21	1:g:455:THR:HA	1.62	0.65
1:q:492:SER:H	1:s:459:ARG:NH1	1.94	0.65
1:2:325:GLN:NE2	1:2:330:THR:OG1	2.28	0.65
1:L:413:TYR:OH	1:L:641:HIS:O	2.13	0.65
1:R:497:ASN:HD21	1:U:455:THR:HA	1.62	0.65
1:g:492:SER:H	1:h:459:ARG:NH1	1.95	0.65
1:m:434:MET:HE1	1:m:470:ILE:HG23	1.78	0.65
1:o:434:MET:HE1	1:o:470:ILE:HG23	1.78	0.65
1:w:325:GLN:NE2	1:w:330:THR:OG1	2.28	0.65
1:w:434:MET:HE1	1:w:470:ILE:HG23	1.78	0.65
1:w:497:ASN:HD21	1:y:455:THR:HA	1.61	0.65
1:y:715:ASP:OD1	1:y:719:VAL:N	2.24	0.65
1:C:413:TYR:OH	1:C:641:HIS:O	2.13	0.65
1:C:455:THR:HA	1:b:497:ASN:HD21	1.61	0.65
1:E:455:THR:HA	1:Q:497:ASN:HD21	1.62	0.65
1:O:492:SER:H	1:n:459:ARG:NH1	1.94	0.65
1:Y:715:ASP:OD1	1:Y:719:VAL:N	2.24	0.65
1:d:325:GLN:NE2	1:d:330:THR:OG1	2.28	0.65
1:Z:455:THR:HA	1:4:497:ASN:HD21	1.62	0.64
1:c:492:SER:H	1:p:459:ARG:NH1	1.94	0.64
1:r:715:ASP:OD1	1:r:719:VAL:N	2.24	0.64
1:3:492:SER:H	1:4:459:ARG:NH1	1.94	0.64
1:E:325:GLN:NE2	1:E:330:THR:OG1	2.28	0.64
1:H:459:ARG:NH1	1:W:492:SER:H	1.94	0.64
1:K:434:MET:HE1	1:K:470:ILE:HG23	1.78	0.64
1:K:455:THR:HA	1:a:497:ASN:HD21	1.62	0.64
1:a:434:MET:HE1	1:a:470:ILE:HG23	1.78	0.64
1:a:455:THR:HA	1:8:497:ASN:HD21	1.62	0.64
1:m:491:THR:O	1:m:495:ASN:ND2	2.31	0.64
1:q:497:ASN:HD21	1:s:455:THR:HA	1.62	0.64
1:t:492:SER:H	1:v:459:ARG:NH1	1.95	0.64
1:1:581:THR:O	1:2:484:ARG:NH2	2.31	0.64
1:N:434:MET:HE1	1:N:470:ILE:HG23	1.78	0.64
1:T:459:ARG:NH1	1:d:492:SER:H	1.94	0.64
1:U:491:THR:O	1:U:495:ASN:ND2	2.31	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:V:325:GLN:NE2	1:V:330:THR:OG1	2.28	0.64
1:Z:491:THR:O	1:Z:495:ASN:ND2	2.31	0.64
1:d:491:THR:O	1:d:495:ASN:ND2	2.31	0.64
1:e:325:GLN:NE2	1:e:330:THR:OG1	2.28	0.64
1:k:483:TYR:HH	1:k:506:THR:HG1	1.43	0.64
1:s:325:GLN:NE2	1:s:330:THR:OG1	2.28	0.64
1:v:491:THR:O	1:v:495:ASN:ND2	2.31	0.64
1:z:693:ARG:NH2	1:1:390:SER:O	2.30	0.64
1:2:491:THR:O	1:2:495:ASN:ND2	2.31	0.64
1:3:497:ASN:HD21	1:4:455:THR:HA	1.63	0.64
1:6:491:THR:O	1:6:495:ASN:ND2	2.31	0.64
1:8:434:MET:HE1	1:8:470:ILE:HG23	1.78	0.64
1:B:497:ASN:HD21	1:L:455:THR:HA	1.62	0.64
1:D:434:MET:HE1	1:D:470:ILE:HG23	1.78	0.64
1:F:491:THR:O	1:F:495:ASN:ND2	2.31	0.64
1:G:434:MET:HE1	1:G:470:ILE:HG23	1.78	0.64
1:G:455:THR:HA	1:I:497:ASN:HD21	1.62	0.64
1:H:325:GLN:NE2	1:H:330:THR:OG1	2.28	0.64
1:H:455:THR:HA	1:W:497:ASN:HD21	1.62	0.64
1:S:455:THR:HA	1:U:497:ASN:HD21	1.61	0.64
1:V:455:THR:HA	1:e:497:ASN:HD21	1.62	0.64
1:h:483:TYR:HH	1:h:506:THR:HG1	1.44	0.64
1:l:483:TYR:HH	1:l:506:THR:HG1	1.45	0.64
1:m:455:THR:HA	1:n:497:ASN:HD21	1.62	0.64
1:7:325:GLN:NE2	1:7:330:THR:OG1	2.28	0.64
1:D:491:THR:O	1:D:495:ASN:ND2	2.31	0.64
1:E:497:ASN:HD21	1:F:455:THR:HA	1.61	0.64
1:H:491:THR:O	1:H:495:ASN:ND2	2.31	0.64
1:K:491:THR:O	1:K:495:ASN:ND2	2.31	0.64
1:N:491:THR:O	1:N:495:ASN:ND2	2.31	0.64
1:P:434:MET:HE1	1:P:470:ILE:HG23	1.78	0.64
1:Z:497:ASN:HD21	1:3:455:THR:HA	1.62	0.64
1:a:491:THR:O	1:a:495:ASN:ND2	2.31	0.64
1:c:434:MET:HE1	1:c:470:ILE:HG23	1.78	0.64
1:h:491:THR:O	1:h:495:ASN:ND2	2.31	0.64
1:k:491:THR:O	1:k:495:ASN:ND2	2.31	0.64
1:q:325:GLN:NE2	1:q:330:THR:OG1	2.28	0.64
1:r:491:THR:O	1:r:495:ASN:ND2	2.31	0.64
1:s:491:THR:O	1:s:495:ASN:ND2	2.31	0.64
1:u:491:THR:O	1:u:495:ASN:ND2	2.31	0.64
1:4:304:TRP:NE1	1:4:689:GLU:HA	2.13	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:304:TRP:NE1	1:I:689:GLU:HA	2.13	0.64
1:K:484:ARG:NH2	1:8:581:THR:O	2.30	0.64
1:N:518:ASN:HB3	1:N:519:PRO:HD2	1.80	0.64
1:N:715:ASP:OD1	1:N:719:VAL:N	2.24	0.64
1:S:491:THR:O	1:S:495:ASN:ND2	2.31	0.64
1:X:518:ASN:HB3	1:X:519:PRO:HD2	1.80	0.64
1:X:715:ASP:OD1	1:X:719:VAL:N	2.24	0.64
1:a:518:ASN:HB3	1:a:519:PRO:HD2	1.80	0.64
1:b:491:THR:O	1:b:495:ASN:ND2	2.31	0.64
1:c:304:TRP:NE1	1:c:689:GLU:HA	2.13	0.64
1:c:497:ASN:HD21	1:p:455:THR:HA	1.63	0.64
1:i:304:TRP:NE1	1:i:689:GLU:HA	2.13	0.64
1:n:304:TRP:NE1	1:n:689:GLU:HA	2.13	0.64
1:p:434:MET:HE1	1:p:470:ILE:HG23	1.78	0.64
1:y:325:GLN:NE2	1:y:330:THR:OG1	2.28	0.64
1:z:497:ASN:HD21	1:2:455:THR:HA	1.63	0.64
1:1:304:TRP:NE1	1:1:689:GLU:HA	2.13	0.64
1:1:491:THR:O	1:1:495:ASN:ND2	2.31	0.64
1:1:518:ASN:HB3	1:1:519:PRO:HD2	1.80	0.64
1:B:518:ASN:HB3	1:B:519:PRO:HD2	1.80	0.64
1:H:304:TRP:NE1	1:H:689:GLU:HA	2.13	0.64
1:I:434:MET:HE1	1:I:470:ILE:HG23	1.78	0.64
1:T:304:TRP:NE1	1:T:689:GLU:HA	2.13	0.64
1:T:491:THR:O	1:T:495:ASN:ND2	2.31	0.64
1:U:304:TRP:NE1	1:U:689:GLU:HA	2.13	0.64
1:U:434:MET:HE1	1:U:470:ILE:HG23	1.78	0.64
1:W:304:TRP:NE1	1:W:689:GLU:HA	2.13	0.64
1:Y:491:THR:O	1:Y:495:ASN:ND2	2.31	0.64
1:b:518:ASN:HB3	1:b:519:PRO:HD2	1.80	0.64
1:g:304:TRP:NE1	1:g:689:GLU:HA	2.13	0.64
1:v:304:TRP:NE1	1:v:689:GLU:HA	2.13	0.64
1:v:434:MET:HE1	1:v:470:ILE:HG23	1.78	0.64
1:x:518:ASN:HB3	1:x:519:PRO:HD2	1.80	0.64
1:1:455:THR:HA	1:2:497:ASN:HD21	1.62	0.64
1:5:497:ASN:HD21	1:7:455:THR:HA	1.63	0.64
1:B:491:THR:O	1:B:495:ASN:ND2	2.31	0.64
1:J:491:THR:O	1:J:495:ASN:ND2	2.31	0.64
1:O:455:THR:HA	1:m:497:ASN:HD21	1.63	0.64
1:O:518:ASN:HB3	1:O:519:PRO:HD2	1.80	0.64
1:Q:304:TRP:NE1	1:Q:689:GLU:HA	2.13	0.64
1:T:518:ASN:HB3	1:T:519:PRO:HD2	1.80	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:V:491:THR:O	1:V:495:ASN:ND2	2.31	0.64
1:f:491:THR:O	1:f:495:ASN:ND2	2.31	0.64
1:q:304:TRP:NE1	1:q:689:GLU:HA	2.13	0.64
1:t:455:THR:HA	1:u:497:ASN:HD21	1.62	0.64
1:u:304:TRP:NE1	1:u:689:GLU:HA	2.13	0.64
1:x:715:ASP:OD1	1:x:719:VAL:N	2.24	0.64
1:y:304:TRP:NE1	1:y:689:GLU:HA	2.13	0.64
1:y:491:THR:O	1:y:495:ASN:ND2	2.31	0.64
1:5:518:ASN:HB3	1:5:519:PRO:HD2	1.80	0.64
1:C:304:TRP:NE1	1:C:689:GLU:HA	2.13	0.64
1:L:304:TRP:NE1	1:L:689:GLU:HA	2.13	0.64
1:M:491:THR:O	1:M:495:ASN:ND2	2.31	0.64
1:Q:518:ASN:HB3	1:Q:519:PRO:HD2	1.80	0.64
1:R:304:TRP:NE1	1:R:689:GLU:HA	2.13	0.64
1:S:304:TRP:NE1	1:S:689:GLU:HA	2.13	0.64
1:V:304:TRP:NE1	1:V:689:GLU:HA	2.13	0.64
1:d:304:TRP:NE1	1:d:689:GLU:HA	2.13	0.64
1:f:304:TRP:NE1	1:f:689:GLU:HA	2.13	0.64
1:i:491:THR:O	1:i:495:ASN:ND2	2.31	0.64
1:j:491:THR:O	1:j:495:ASN:ND2	2.31	0.64
1:m:304:TRP:NE1	1:m:689:GLU:HA	2.13	0.64
1:p:491:THR:O	1:p:495:ASN:ND2	2.31	0.64
1:s:304:TRP:NE1	1:s:689:GLU:HA	2.13	0.64
1:t:304:TRP:NE1	1:t:689:GLU:HA	2.13	0.64
1:2:304:TRP:NE1	1:2:689:GLU:HA	2.13	0.64
1:8:491:THR:O	1:8:495:ASN:ND2	2.31	0.64
1:A:491:THR:O	1:A:495:ASN:ND2	2.31	0.64
1:G:491:THR:O	1:G:495:ASN:ND2	2.31	0.64
1:J:455:THR:HA	1:L:497:ASN:HD21	1.62	0.64
1:P:491:THR:O	1:P:495:ASN:ND2	2.31	0.64
1:T:497:ASN:HD21	1:l:455:THR:HA	1.62	0.64
1:Z:304:TRP:NE1	1:Z:689:GLU:HA	2.13	0.64
1:a:715:ASP:OD1	1:a:719:VAL:N	2.24	0.64
1:e:304:TRP:NE1	1:e:689:GLU:HA	2.13	0.64
1:g:491:THR:O	1:g:495:ASN:ND2	2.31	0.64
1:j:304:TRP:NE1	1:j:689:GLU:HA	2.13	0.64
1:k:518:ASN:HB3	1:k:519:PRO:HD2	1.80	0.64
1:l:491:THR:O	1:l:495:ASN:ND2	2.31	0.64
1:t:518:ASN:HB3	1:t:519:PRO:HD2	1.80	0.64
1:u:455:THR:HA	1:v:497:ASN:HD21	1.62	0.64
1:z:518:ASN:HB3	1:z:519:PRO:HD2	1.80	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:3:518:ASN:HB3	1:3:519:PRO:HD2	1.80	0.64
1:C:491:THR:O	1:C:495:ASN:ND2	2.31	0.63
1:C:497:ASN:HD21	1:M:455:THR:HA	1.62	0.63
1:E:518:ASN:HB3	1:E:519:PRO:HD2	1.80	0.63
1:H:518:ASN:HB3	1:H:519:PRO:HD2	1.80	0.63
1:J:304:TRP:NE1	1:J:689:GLU:HA	2.13	0.63
1:R:518:ASN:HB3	1:R:519:PRO:HD2	1.80	0.63
1:V:518:ASN:HB3	1:V:519:PRO:HD2	1.80	0.63
1:Y:304:TRP:NE1	1:Y:689:GLU:HA	2.13	0.63
1:d:455:THR:HA	1:l:497:ASN:HD21	1.63	0.63
1:j:518:ASN:HB3	1:j:519:PRO:HD2	1.80	0.63
1:k:304:TRP:NE1	1:k:689:GLU:HA	2.13	0.63
1:l:518:ASN:HB3	1:l:519:PRO:HD2	1.80	0.63
1:o:491:THR:O	1:o:495:ASN:ND2	2.31	0.63
1:r:304:TRP:NE1	1:r:689:GLU:HA	2.13	0.63
1:w:304:TRP:NE1	1:w:689:GLU:HA	2.13	0.63
1:z:491:THR:O	1:z:495:ASN:ND2	2.31	0.63
1:5:304:TRP:NE1	1:5:689:GLU:HA	2.13	0.63
1:C:715:ASP:OD1	1:C:719:VAL:N	2.24	0.63
1:L:491:THR:O	1:L:495:ASN:ND2	2.31	0.63
1:M:304:TRP:NE1	1:M:689:GLU:HA	2.13	0.63
1:O:491:THR:O	1:O:495:ASN:ND2	2.31	0.63
1:a:304:TRP:NE1	1:a:689:GLU:HA	2.13	0.63
1:h:304:TRP:NE1	1:h:689:GLU:HA	2.13	0.63
1:h:518:ASN:HB3	1:h:519:PRO:HD2	1.80	0.63
1:w:491:THR:O	1:w:495:ASN:ND2	2.31	0.63
1:y:518:ASN:HB3	1:y:519:PRO:HD2	1.80	0.63
1:7:491:THR:O	1:7:495:ASN:ND2	2.31	0.63
1:7:518:ASN:HB3	1:7:519:PRO:HD2	1.80	0.63
1:A:304:TRP:NE1	1:A:689:GLU:HA	2.13	0.63
1:A:518:ASN:HB3	1:A:519:PRO:HD2	1.80	0.63
1:E:491:THR:O	1:E:495:ASN:ND2	2.31	0.63
1:I:491:THR:O	1:I:495:ASN:ND2	2.31	0.63
1:L:715:ASP:OD1	1:L:719:VAL:N	2.24	0.63
1:e:491:THR:O	1:e:495:ASN:ND2	2.31	0.63
1:f:518:ASN:HB3	1:f:519:PRO:HD2	1.80	0.63
1:o:304:TRP:NE1	1:o:689:GLU:HA	2.13	0.63
1:s:518:ASN:HB3	1:s:519:PRO:HD2	1.80	0.63
1:w:518:ASN:HB3	1:w:519:PRO:HD2	1.80	0.63
1:8:304:TRP:NE1	1:8:689:GLU:HA	2.13	0.63
1:P:304:TRP:NE1	1:P:689:GLU:HA	2.13	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:S:518:ASN:HB3	1:S:519:PRO:HD2	1.80	0.63
1:c:455:THR:HA	1:o:497:ASN:HD21	1.62	0.63
1:c:491:THR:O	1:c:495:ASN:ND2	2.31	0.63
1:o:518:ASN:HB3	1:o:519:PRO:HD2	1.80	0.63
1:x:304:TRP:NE1	1:x:689:GLU:HA	2.13	0.63
1:3:491:THR:O	1:3:495:ASN:ND2	2.31	0.63
1:5:455:THR:HA	1:6:497:ASN:HD21	1.62	0.63
1:6:304:TRP:NE1	1:6:689:GLU:HA	2.13	0.63
1:6:455:THR:HA	1:7:497:ASN:HD21	1.62	0.63
1:A:497:ASN:HD21	1:I:455:THR:HA	1.62	0.63
1:E:304:TRP:NE1	1:E:689:GLU:HA	2.13	0.63
1:F:304:TRP:NE1	1:F:689:GLU:HA	2.13	0.63
1:F:497:ASN:HD21	1:Q:455:THR:HA	1.62	0.63
1:N:304:TRP:NE1	1:N:689:GLU:HA	2.13	0.63
1:T:455:THR:HA	1:d:497:ASN:HD21	1.63	0.63
1:X:491:THR:O	1:X:495:ASN:ND2	2.31	0.63
1:e:518:ASN:HB3	1:e:519:PRO:HD2	1.80	0.63
1:f:390:SER:O	1:g:693:ARG:NH2	2.31	0.63
1:f:455:THR:HA	1:h:497:ASN:HD21	1.62	0.63
1:q:335:ASN:OD1	1:q:336:LEU:N	2.32	0.63
1:x:491:THR:O	1:x:495:ASN:ND2	2.31	0.63
1:W:335:ASN:OD1	1:W:336:LEU:N	2.32	0.63
1:W:455:THR:HA	1:Y:497:ASN:HD21	1.63	0.63
1:X:304:TRP:NE1	1:X:689:GLU:HA	2.13	0.63
1:f:335:ASN:OD1	1:f:336:LEU:N	2.32	0.63
1:m:335:ASN:OD1	1:m:336:LEU:N	2.32	0.63
1:t:497:ASN:HD21	1:v:455:THR:HA	1.64	0.63
1:u:518:ASN:HB3	1:u:519:PRO:HD2	1.80	0.63
1:7:304:TRP:NE1	1:7:689:GLU:HA	2.13	0.63
1:D:304:TRP:NE1	1:D:689:GLU:HA	2.13	0.63
1:D:693:ARG:NH2	1:N:390:SER:O	2.31	0.63
1:K:335:ASN:OD1	1:K:336:LEU:N	2.32	0.63
1:N:564:GLU:OE1	1:N:564:GLU:N	2.32	0.63
1:V:335:ASN:OD1	1:V:336:LEU:N	2.32	0.63
1:W:518:ASN:HB3	1:W:519:PRO:HD2	1.80	0.63
1:Z:335:ASN:OD1	1:Z:336:LEU:N	2.32	0.63
1:c:335:ASN:OD1	1:c:336:LEU:N	2.32	0.63
1:i:497:ASN:HD21	1:k:455:THR:HA	1.62	0.63
1:j:335:ASN:OD1	1:j:336:LEU:N	2.32	0.63
1:q:518:ASN:HB3	1:q:519:PRO:HD2	1.80	0.63
1:z:483:TYR:HH	1:z:506:THR:HG1	1.46	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:455:THR:HA	1:G:497:ASN:HD21	1.62	0.63
1:A:715:ASP:OD1	1:A:719:VAL:N	2.24	0.63
1:D:335:ASN:OD1	1:D:336:LEU:N	2.32	0.63
1:H:564:GLU:OE1	1:H:564:GLU:N	2.32	0.63
1:I:335:ASN:OD1	1:I:336:LEU:N	2.32	0.63
1:Q:564:GLU:OE1	1:Q:564:GLU:N	2.32	0.63
1:S:564:GLU:OE1	1:S:564:GLU:N	2.32	0.63
1:X:483:TYR:HH	1:X:506:THR:HG1	1.46	0.63
1:a:564:GLU:OE1	1:a:564:GLU:N	2.32	0.63
1:i:518:ASN:HB3	1:i:519:PRO:HD2	1.80	0.63
1:j:455:THR:HA	1:k:497:ASN:HD21	1.62	0.63
1:j:715:ASP:OD1	1:j:719:VAL:N	2.24	0.63
1:l:335:ASN:OD1	1:l:336:LEU:N	2.32	0.63
1:n:335:ASN:OD1	1:n:336:LEU:N	2.32	0.63
1:s:564:GLU:OE1	1:s:564:GLU:N	2.32	0.63
1:t:491:THR:O	1:t:495:ASN:ND2	2.31	0.63
1:t:715:ASP:OD1	1:t:719:VAL:N	2.24	0.63
1:w:564:GLU:OE1	1:w:564:GLU:N	2.32	0.63
1:y:335:ASN:OD1	1:y:336:LEU:N	2.32	0.63
1:z:335:ASN:OD1	1:z:336:LEU:N	2.32	0.63
1:1:459:ARG:NH1	1:2:492:SER:H	1.95	0.63
1:4:335:ASN:OD1	1:4:336:LEU:N	2.32	0.63
1:C:693:ARG:NH2	1:b:390:SER:O	2.32	0.63
1:Q:335:ASN:OD1	1:Q:336:LEU:N	2.32	0.63
1:R:335:ASN:OD1	1:R:336:LEU:N	2.32	0.63
1:R:491:THR:O	1:R:495:ASN:ND2	2.31	0.63
1:U:518:ASN:HB3	1:U:519:PRO:HD2	1.80	0.63
1:Z:518:ASN:HB3	1:Z:519:PRO:HD2	1.80	0.63
1:d:335:ASN:OD1	1:d:336:LEU:N	2.32	0.63
1:e:564:GLU:N	1:e:564:GLU:OE1	2.32	0.63
1:g:518:ASN:HB3	1:g:519:PRO:HD2	1.80	0.63
1:n:491:THR:O	1:n:495:ASN:ND2	2.31	0.63
1:q:455:THR:HA	1:r:497:ASN:HD21	1.63	0.63
1:r:518:ASN:HB3	1:r:519:PRO:HD2	1.80	0.63
1:t:335:ASN:OD1	1:t:336:LEU:N	2.32	0.63
1:u:564:GLU:N	1:u:564:GLU:OE1	2.32	0.63
1:2:335:ASN:OD1	1:2:336:LEU:N	2.32	0.63
1:3:564:GLU:OE1	1:3:564:GLU:N	2.32	0.63
1:5:335:ASN:OD1	1:5:336:LEU:N	2.32	0.63
1:5:564:GLU:OE1	1:5:564:GLU:N	2.32	0.63
1:D:518:ASN:HB3	1:D:519:PRO:HD2	1.80	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:304:TRP:NE1	1:K:689:GLU:HA	2.13	0.62
1:O:564:GLU:N	1:O:564:GLU:OE1	2.32	0.62
1:P:564:GLU:OE1	1:P:564:GLU:N	2.32	0.62
1:Q:491:THR:O	1:Q:495:ASN:ND2	2.31	0.62
1:V:693:ARG:NH2	1:e:390:SER:O	2.32	0.62
1:X:564:GLU:OE1	1:X:564:GLU:N	2.32	0.62
1:Y:518:ASN:HB3	1:Y:519:PRO:HD2	1.80	0.62
1:m:518:ASN:HB3	1:m:519:PRO:HD2	1.80	0.62
1:r:693:ARG:NH2	1:s:390:SER:O	2.32	0.62
1:v:518:ASN:HB3	1:v:519:PRO:HD2	1.80	0.62
1:x:483:TYR:HH	1:x:506:THR:HG1	1.47	0.62
1:x:564:GLU:N	1:x:564:GLU:OE1	2.32	0.62
1:3:335:ASN:OD1	1:3:336:LEU:N	2.32	0.62
1:4:491:THR:O	1:4:495:ASN:ND2	2.31	0.62
1:5:491:THR:O	1:5:495:ASN:ND2	2.31	0.62
1:C:335:ASN:OD1	1:C:336:LEU:N	2.32	0.62
1:F:390:SER:O	1:Q:693:ARG:NH2	2.33	0.62
1:K:518:ASN:HB3	1:K:519:PRO:HD2	1.80	0.62
1:L:335:ASN:OD1	1:L:336:LEU:N	2.32	0.62
1:O:335:ASN:OD1	1:O:336:LEU:N	2.32	0.62
1:P:335:ASN:OD1	1:P:336:LEU:N	2.32	0.62
1:R:483:TYR:HH	1:R:506:THR:HG1	1.45	0.62
1:W:491:THR:O	1:W:495:ASN:ND2	2.31	0.62
1:Z:564:GLU:N	1:Z:564:GLU:OE1	2.32	0.62
1:c:564:GLU:OE1	1:c:564:GLU:N	2.32	0.62
1:g:390:SER:O	1:h:693:ARG:NH2	2.33	0.62
1:m:564:GLU:N	1:m:564:GLU:OE1	2.32	0.62
1:x:693:ARG:NH2	1:y:390:SER:O	2.32	0.62
1:5:390:SER:O	1:7:693:ARG:NH2	2.32	0.62
1:8:564:GLU:OE1	1:8:564:GLU:N	2.32	0.62
1:B:304:TRP:NE1	1:B:689:GLU:HA	2.13	0.62
1:E:564:GLU:OE1	1:E:564:GLU:N	2.32	0.62
1:G:518:ASN:HB3	1:G:519:PRO:HD2	1.80	0.62
1:H:390:SER:O	1:Y:693:ARG:NH2	2.33	0.62
1:I:564:GLU:OE1	1:I:564:GLU:N	2.32	0.62
1:K:693:ARG:NH2	1:a:390:SER:O	2.32	0.62
1:K:715:ASP:OD1	1:K:719:VAL:N	2.24	0.62
1:R:564:GLU:N	1:R:564:GLU:OE1	2.32	0.62
1:R:715:ASP:OD1	1:R:719:VAL:N	2.24	0.62
1:k:564:GLU:OE1	1:k:564:GLU:N	2.32	0.62
1:o:715:ASP:OD1	1:o:719:VAL:N	2.24	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:p:304:TRP:NE1	1:p:689:GLU:HA	2.13	0.62
1:p:518:ASN:HB3	1:p:519:PRO:HD2	1.80	0.62
1:t:564:GLU:OE1	1:t:564:GLU:N	2.32	0.62
1:2:518:ASN:HB3	1:2:519:PRO:HD2	1.80	0.62
1:7:564:GLU:N	1:7:564:GLU:OE1	2.32	0.62
1:8:335:ASN:OD1	1:8:336:LEU:N	2.32	0.62
1:F:483:TYR:HH	1:F:506:THR:HG1	1.47	0.62
1:M:564:GLU:N	1:M:564:GLU:OE1	2.32	0.62
1:d:518:ASN:HB3	1:d:519:PRO:HD2	1.80	0.62
1:f:715:ASP:OD1	1:f:719:VAL:N	2.24	0.62
1:h:564:GLU:OE1	1:h:564:GLU:N	2.32	0.62
1:o:455:THR:HA	1:p:497:ASN:HD21	1.63	0.62
1:q:491:THR:O	1:q:495:ASN:ND2	2.31	0.62
1:3:304:TRP:NE1	1:3:689:GLU:HA	2.13	0.62
1:4:564:GLU:OE1	1:4:564:GLU:N	2.32	0.62
1:C:390:SER:O	1:M:693:ARG:NH2	2.32	0.62
1:E:335:ASN:OD1	1:E:336:LEU:N	2.32	0.62
1:J:518:ASN:HB3	1:J:519:PRO:HD2	1.80	0.62
1:O:304:TRP:NE1	1:O:689:GLU:HA	2.13	0.62
1:P:518:ASN:HB3	1:P:519:PRO:HD2	1.80	0.62
1:S:715:ASP:OD1	1:S:719:VAL:N	2.24	0.62
1:b:304:TRP:NE1	1:b:689:GLU:HA	2.13	0.62
1:d:693:ARG:NH2	1:l:390:SER:O	2.33	0.62
1:g:335:ASN:OD1	1:g:336:LEU:N	2.32	0.62
1:i:335:ASN:OD1	1:i:336:LEU:N	2.32	0.62
1:i:390:SER:O	1:k:693:ARG:NH2	2.33	0.62
1:l:304:TRP:NE1	1:l:689:GLU:HA	2.13	0.62
1:n:564:GLU:OE1	1:n:564:GLU:N	2.32	0.62
1:1:564:GLU:OE1	1:1:564:GLU:N	2.32	0.62
1:5:693:ARG:NH2	1:6:390:SER:O	2.33	0.62
1:8:518:ASN:HB3	1:8:519:PRO:HD2	1.80	0.62
1:C:518:ASN:HB3	1:C:519:PRO:HD2	1.80	0.62
1:G:304:TRP:NE1	1:G:689:GLU:HA	2.13	0.62
1:J:564:GLU:N	1:J:564:GLU:OE1	2.32	0.62
1:J:693:ARG:NH2	1:L:390:SER:O	2.32	0.62
1:M:518:ASN:HB3	1:M:519:PRO:HD2	1.80	0.62
1:P:325:GLN:HG2	1:P:330:THR:HA	1.82	0.62
1:Z:693:ARG:NH2	1:4:390:SER:O	2.33	0.62
1:h:325:GLN:HG2	1:h:330:THR:HA	1.82	0.62
1:w:390:SER:O	1:y:693:ARG:NH2	2.33	0.62
1:y:564:GLU:OE1	1:y:564:GLU:N	2.32	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:z:304:TRP:NE1	1:z:689:GLU:HA	2.13	0.62
1:7:335:ASN:OD1	1:7:336:LEU:N	2.32	0.62
1:D:715:ASP:OD1	1:D:719:VAL:N	2.24	0.62
1:L:518:ASN:HB3	1:L:519:PRO:HD2	1.80	0.62
1:N:335:ASN:OD1	1:N:336:LEU:N	2.32	0.62
1:N:693:ARG:NH2	1:P:390:SER:O	2.32	0.62
1:T:564:GLU:OE1	1:T:564:GLU:N	2.32	0.62
1:U:715:ASP:OD1	1:U:719:VAL:N	2.24	0.62
1:V:564:GLU:OE1	1:V:564:GLU:N	2.32	0.62
1:Y:335:ASN:OD1	1:Y:336:LEU:N	2.32	0.62
1:a:335:ASN:OD1	1:a:336:LEU:N	2.32	0.62
1:f:564:GLU:OE1	1:f:564:GLU:N	2.32	0.62
1:g:564:GLU:OE1	1:g:564:GLU:N	2.32	0.62
1:s:325:GLN:HG2	1:s:330:THR:HA	1.82	0.62
1:v:715:ASP:OD1	1:v:719:VAL:N	2.24	0.62
1:z:485:GLN:HE22	1:z:537:SER:HG	1.46	0.62
1:H:325:GLN:HG2	1:H:330:THR:HA	1.82	0.62
1:H:335:ASN:OD1	1:H:336:LEU:N	2.32	0.62
1:i:564:GLU:OE1	1:i:564:GLU:N	2.32	0.62
1:j:564:GLU:N	1:j:564:GLU:OE1	2.32	0.62
1:k:325:GLN:HG2	1:k:330:THR:HA	1.82	0.62
1:m:693:ARG:NH2	1:n:390:SER:O	2.33	0.62
1:s:335:ASN:OD1	1:s:336:LEU:N	2.32	0.62
1:A:564:GLU:OE1	1:A:564:GLU:N	2.32	0.62
1:B:390:SER:O	1:L:693:ARG:NH2	2.33	0.62
1:L:564:GLU:OE1	1:L:564:GLU:N	2.32	0.62
1:V:390:SER:O	1:X:693:ARG:NH2	2.33	0.62
1:a:325:GLN:HG2	1:a:330:THR:HA	1.82	0.62
1:o:325:GLN:HG2	1:o:330:THR:HA	1.82	0.62
1:o:564:GLU:OE1	1:o:564:GLU:N	2.32	0.62
1:t:325:GLN:HG2	1:t:330:THR:HA	1.82	0.62
1:v:564:GLU:OE1	1:v:564:GLU:N	2.32	0.62
1:w:335:ASN:OD1	1:w:336:LEU:N	2.32	0.62
1:z:390:SER:O	1:2:693:ARG:NH2	2.33	0.62
1:3:390:SER:O	1:4:693:ARG:NH2	2.33	0.62
1:8:325:GLN:HG2	1:8:330:THR:HA	1.82	0.62
1:F:564:GLU:OE1	1:F:564:GLU:N	2.32	0.62
1:N:325:GLN:HG2	1:N:330:THR:HA	1.82	0.62
1:O:447:ARG:NH1	1:O:450:THR:O	2.33	0.62
1:R:325:GLN:HG2	1:R:330:THR:HA	1.82	0.62
1:U:564:GLU:N	1:U:564:GLU:OE1	2.32	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:c:715:ASP:OD1	1:c:719:VAL:N	2.24	0.62
1:e:335:ASN:OD1	1:e:336:LEU:N	2.32	0.62
1:i:483:TYR:HH	1:i:506:THR:HG1	1.48	0.62
1:q:564:GLU:OE1	1:q:564:GLU:N	2.32	0.62
1:x:325:GLN:HG2	1:x:330:THR:HA	1.82	0.62
1:z:564:GLU:OE1	1:z:564:GLU:N	2.32	0.62
1:1:335:ASN:OD1	1:1:336:LEU:N	2.32	0.62
1:3:447:ARG:NH1	1:3:450:THR:O	2.33	0.62
1:A:325:GLN:HG2	1:A:330:THR:HA	1.82	0.61
1:C:564:GLU:OE1	1:C:564:GLU:N	2.32	0.61
1:G:335:ASN:OD1	1:G:336:LEU:N	2.32	0.61
1:I:715:ASP:OD1	1:I:719:VAL:N	2.24	0.61
1:M:335:ASN:OD1	1:M:336:LEU:N	2.32	0.61
1:N:447:ARG:NH1	1:N:450:THR:O	2.33	0.61
1:R:693:ARG:NH2	1:S:390:SER:O	2.33	0.61
1:S:447:ARG:NH1	1:S:450:THR:O	2.33	0.61
1:T:335:ASN:OD1	1:T:336:LEU:N	2.32	0.61
1:W:564:GLU:OE1	1:W:564:GLU:N	2.32	0.61
1:X:325:GLN:HG2	1:X:330:THR:HA	1.82	0.61
1:a:447:ARG:NH1	1:a:450:THR:O	2.33	0.61
1:c:518:ASN:HB3	1:c:519:PRO:HD2	1.80	0.61
1:g:483:TYR:HH	1:g:506:THR:HG1	1.48	0.61
1:p:335:ASN:OD1	1:p:336:LEU:N	2.32	0.61
1:u:693:ARG:NH2	1:v:390:SER:O	2.33	0.61
1:u:715:ASP:OD1	1:u:719:VAL:N	2.24	0.61
1:6:518:ASN:HB3	1:6:519:PRO:HD2	1.80	0.61
1:B:564:GLU:N	1:B:564:GLU:OE1	2.32	0.61
1:F:518:ASN:HB3	1:F:519:PRO:HD2	1.80	0.61
1:I:518:ASN:HB3	1:I:519:PRO:HD2	1.80	0.61
1:J:335:ASN:OD1	1:J:336:LEU:N	2.32	0.61
1:K:564:GLU:OE1	1:K:564:GLU:N	2.32	0.61
1:O:325:GLN:HG2	1:O:330:THR:HA	1.82	0.61
1:Q:325:GLN:HG2	1:Q:330:THR:HA	1.82	0.61
1:R:390:SER:O	1:U:693:ARG:NH2	2.33	0.61
1:T:325:GLN:HG2	1:T:330:THR:HA	1.82	0.61
1:V:447:ARG:NH1	1:V:450:THR:O	2.33	0.61
1:b:564:GLU:N	1:b:564:GLU:OE1	2.32	0.61
1:l:564:GLU:OE1	1:l:564:GLU:N	2.32	0.61
1:u:447:ARG:NH1	1:u:450:THR:O	2.33	0.61
1:3:325:GLN:HG2	1:3:330:THR:HA	1.82	0.61
1:4:325:GLN:HG2	1:4:330:THR:HA	1.82	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:6:564:GLU:OE1	1:6:564:GLU:N	2.32	0.61
1:6:693:ARG:NH2	1:7:390:SER:O	2.34	0.61
1:A:447:ARG:NH1	1:A:450:THR:O	2.33	0.61
1:F:447:ARG:NH1	1:F:450:THR:O	2.33	0.61
1:G:564:GLU:N	1:G:564:GLU:OE1	2.32	0.61
1:S:325:GLN:HG2	1:S:330:THR:HA	1.82	0.61
1:T:447:ARG:NH1	1:T:450:THR:O	2.33	0.61
1:W:325:GLN:HG2	1:W:330:THR:HA	1.82	0.61
1:c:325:GLN:HG2	1:c:330:THR:HA	1.82	0.61
1:g:497:ASN:HD21	1:h:455:THR:HA	1.63	0.61
1:j:693:ARG:NH2	1:k:390:SER:O	2.33	0.61
1:l:715:ASP:OD1	1:l:719:VAL:N	2.24	0.61
1:n:325:GLN:HG2	1:n:330:THR:HA	1.82	0.61
1:o:447:ARG:NH1	1:o:450:THR:O	2.33	0.61
1:p:564:GLU:N	1:p:564:GLU:OE1	2.32	0.61
1:q:325:GLN:HG2	1:q:330:THR:HA	1.82	0.61
1:r:325:GLN:HG2	1:r:330:THR:HA	1.82	0.61
1:r:335:ASN:OD1	1:r:336:LEU:N	2.32	0.61
1:u:325:GLN:HG2	1:u:330:THR:HA	1.82	0.61
1:y:447:ARG:NH1	1:y:450:THR:O	2.33	0.61
1:4:518:ASN:HB3	1:4:519:PRO:HD2	1.80	0.61
1:5:581:THR:O	1:6:484:ARG:NH2	2.34	0.61
1:D:564:GLU:OE1	1:D:564:GLU:N	2.32	0.61
1:E:390:SER:O	1:F:693:ARG:NH2	2.34	0.61
1:O:693:ARG:NH2	1:m:390:SER:O	2.32	0.61
1:P:447:ARG:NH1	1:P:450:THR:O	2.33	0.61
1:e:483:TYR:HH	1:e:506:THR:HG1	1.48	0.61
1:f:581:THR:O	1:h:484:ARG:NH2	2.34	0.61
1:f:693:ARG:NH2	1:h:390:SER:O	2.33	0.61
1:h:447:ARG:NH1	1:h:450:THR:O	2.33	0.61
1:i:693:ARG:NH2	1:j:390:SER:O	2.33	0.61
1:r:564:GLU:OE1	1:r:564:GLU:N	2.32	0.61
1:u:335:ASN:OD1	1:u:336:LEU:N	2.32	0.61
1:z:715:ASP:OD1	1:z:719:VAL:N	2.24	0.61
1:1:325:GLN:HG2	1:1:330:THR:HA	1.82	0.61
1:1:447:ARG:NH1	1:1:450:THR:O	2.33	0.61
1:5:325:GLN:HG2	1:5:330:THR:HA	1.82	0.61
1:6:447:ARG:NH1	1:6:450:THR:O	2.33	0.61
1:8:447:ARG:NH1	1:8:450:THR:O	2.33	0.61
1:E:693:ARG:NH2	1:Q:390:SER:O	2.33	0.61
1:S:693:ARG:NH2	1:U:390:SER:O	2.34	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:U:447:ARG:NH1	1:U:450:THR:O	2.33	0.61
1:W:447:ARG:NH1	1:W:450:THR:O	2.33	0.61
1:Y:325:GLN:HG2	1:Y:330:THR:HA	1.82	0.61
1:Y:564:GLU:OE1	1:Y:564:GLU:N	2.32	0.61
1:c:390:SER:O	1:p:693:ARG:NH2	2.33	0.61
1:d:564:GLU:OE1	1:d:564:GLU:N	2.32	0.61
1:k:447:ARG:NH1	1:k:450:THR:O	2.33	0.61
1:s:447:ARG:NH1	1:s:450:THR:O	2.33	0.61
1:v:447:ARG:NH1	1:v:450:THR:O	2.33	0.61
1:D:447:ARG:NH1	1:D:450:THR:O	2.33	0.61
1:G:693:ARG:NH2	1:I:390:SER:O	2.33	0.61
1:H:447:ARG:NH1	1:H:450:THR:O	2.33	0.61
1:J:447:ARG:NH1	1:J:450:THR:O	2.34	0.61
1:K:447:ARG:NH1	1:K:450:THR:O	2.33	0.61
1:K:483:TYR:HH	1:K:506:THR:HG1	1.48	0.61
1:M:447:ARG:NH1	1:M:450:THR:O	2.33	0.61
1:Q:447:ARG:NH1	1:Q:450:THR:O	2.33	0.61
1:S:335:ASN:OD1	1:S:336:LEU:N	2.32	0.61
1:T:484:ARG:NH2	1:l:581:THR:O	2.34	0.61
1:T:693:ARG:NH2	1:d:390:SER:O	2.33	0.61
1:e:325:GLN:HG2	1:e:330:THR:HA	1.82	0.61
1:f:325:GLN:HG2	1:f:330:THR:HA	1.82	0.61
1:n:518:ASN:HB3	1:n:519:PRO:HD2	1.80	0.61
1:q:447:ARG:NH1	1:q:450:THR:O	2.33	0.61
1:q:693:ARG:NH2	1:r:390:SER:O	2.32	0.61
1:t:693:ARG:NH2	1:u:390:SER:O	2.33	0.61
1:x:335:ASN:OD1	1:x:336:LEU:N	2.32	0.61
1:z:459:ARG:NH1	1:1:492:SER:H	1.99	0.61
1:2:564:GLU:N	1:2:564:GLU:OE1	2.32	0.61
1:3:715:ASP:OD1	1:3:719:VAL:N	2.24	0.61
1:D:390:SER:O	1:P:693:ARG:NH2	2.33	0.61
1:I:325:GLN:HG2	1:I:330:THR:HA	1.82	0.61
1:O:390:SER:O	1:n:693:ARG:NH2	2.33	0.61
1:R:447:ARG:NH1	1:R:450:THR:O	2.33	0.61
1:X:335:ASN:OD1	1:X:336:LEU:N	2.32	0.61
1:X:390:SER:O	1:e:693:ARG:NH2	2.33	0.61
1:Y:312:ASN:OD1	1:Y:313:PHE:N	2.34	0.61
1:Z:715:ASP:OD1	1:Z:719:VAL:N	2.24	0.61
1:e:447:ARG:NH1	1:e:450:THR:O	2.33	0.61
1:j:325:GLN:HG2	1:j:330:THR:HA	1.82	0.61
1:l:312:ASN:OD1	1:l:313:PHE:N	2.34	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:n:312:ASN:OD1	1:n:313:PHE:N	2.34	0.61
1:p:325:GLN:HG2	1:p:330:THR:HA	1.82	0.61
1:r:312:ASN:OD1	1:r:313:PHE:N	2.34	0.61
1:w:447:ARG:NH1	1:w:450:THR:O	2.33	0.61
1:5:447:ARG:NH1	1:5:450:THR:O	2.33	0.61
1:D:483:TYR:HH	1:D:506:THR:HG1	1.49	0.61
1:K:312:ASN:OD1	1:K:313:PHE:N	2.34	0.61
1:O:312:ASN:OD1	1:O:313:PHE:N	2.34	0.61
1:W:693:ARG:NH2	1:Y:390:SER:O	2.32	0.61
1:Z:312:ASN:OD1	1:Z:313:PHE:N	2.34	0.61
1:Z:447:ARG:NH1	1:Z:450:THR:O	2.33	0.61
1:c:447:ARG:NH1	1:c:450:THR:O	2.33	0.61
1:j:483:TYR:HH	1:j:506:THR:HG1	1.49	0.61
1:l:447:ARG:NH1	1:l:450:THR:O	2.33	0.61
1:m:312:ASN:OD1	1:m:313:PHE:N	2.34	0.61
1:m:447:ARG:NH1	1:m:450:THR:O	2.33	0.61
1:t:390:SER:O	1:v:693:ARG:NH2	2.33	0.61
1:w:693:ARG:NH2	1:x:390:SER:O	2.33	0.61
1:z:312:ASN:OD1	1:z:313:PHE:N	2.34	0.61
1:3:312:ASN:OD1	1:3:313:PHE:N	2.34	0.61
1:4:312:ASN:OD1	1:4:313:PHE:N	2.34	0.61
1:D:312:ASN:OD1	1:D:313:PHE:N	2.34	0.61
1:G:325:GLN:HG2	1:G:330:THR:HA	1.82	0.61
1:I:447:ARG:NH1	1:I:450:THR:O	2.33	0.61
1:n:447:ARG:NH1	1:n:450:THR:O	2.33	0.61
1:r:447:ARG:NH1	1:r:450:THR:O	2.33	0.61
1:t:447:ARG:NH1	1:t:450:THR:O	2.33	0.61
1:v:335:ASN:OD1	1:v:336:LEU:N	2.32	0.61
1:w:325:GLN:HG2	1:w:330:THR:HA	1.82	0.61
1:z:447:ARG:NH1	1:z:450:THR:O	2.33	0.61
1:4:447:ARG:NH1	1:4:450:THR:O	2.33	0.61
1:E:447:ARG:NH1	1:E:450:THR:O	2.33	0.61
1:G:312:ASN:OD1	1:G:313:PHE:N	2.34	0.61
1:J:325:GLN:HG2	1:J:330:THR:HA	1.82	0.61
1:M:325:GLN:HG2	1:M:330:THR:HA	1.82	0.61
1:Z:484:ARG:NH2	1:3:581:THR:O	2.34	0.61
1:g:325:GLN:HG2	1:g:330:THR:HA	1.82	0.61
1:1:525:SER:OG	1:1:561:ASP:OD1	2.16	0.61
1:1:693:ARG:NH2	1:2:390:SER:O	2.34	0.61
1:7:447:ARG:NH1	1:7:450:THR:O	2.33	0.61
1:G:453:GLY:N	1:G:457:GLN:O	2.34	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:312:ASN:OD1	1:I:313:PHE:N	2.34	0.60
1:O:484:ARG:NH2	1:n:581:THR:O	2.35	0.60
1:O:715:ASP:OD1	1:O:719:VAL:N	2.24	0.60
1:T:312:ASN:OD1	1:T:313:PHE:N	2.34	0.60
1:U:335:ASN:OD1	1:U:336:LEU:N	2.32	0.60
1:Y:447:ARG:NH1	1:Y:450:THR:O	2.33	0.60
1:c:693:ARG:NH2	1:o:390:SER:O	2.34	0.60
1:d:325:GLN:HG2	1:d:330:THR:HA	1.82	0.60
1:f:484:ARG:NH2	1:g:581:THR:O	2.34	0.60
1:h:312:ASN:OD1	1:h:313:PHE:N	2.34	0.60
1:i:325:GLN:HG2	1:i:330:THR:HA	1.82	0.60
1:i:484:ARG:NH2	1:k:581:THR:O	2.34	0.60
1:k:312:ASN:OD1	1:k:313:PHE:N	2.34	0.60
1:m:715:ASP:OD1	1:m:719:VAL:N	2.24	0.60
1:p:312:ASN:OD1	1:p:313:PHE:N	2.34	0.60
1:u:312:ASN:OD1	1:u:313:PHE:N	2.34	0.60
1:l:312:ASN:OD1	1:l:313:PHE:N	2.34	0.60
1:2:325:GLN:HG2	1:2:330:THR:HA	1.82	0.60
1:6:335:ASN:OD1	1:6:336:LEU:N	2.32	0.60
1:A:335:ASN:OD1	1:A:336:LEU:N	2.32	0.60
1:A:390:SER:O	1:I:693:ARG:NH2	2.34	0.60
1:B:447:ARG:NH1	1:B:450:THR:O	2.33	0.60
1:L:447:ARG:NH1	1:L:450:THR:O	2.33	0.60
1:Q:312:ASN:OD1	1:Q:313:PHE:N	2.34	0.60
1:S:312:ASN:OD1	1:S:313:PHE:N	2.34	0.60
1:U:312:ASN:OD1	1:U:313:PHE:N	2.34	0.60
1:X:312:ASN:OD1	1:X:313:PHE:N	2.34	0.60
1:c:312:ASN:OD1	1:c:313:PHE:N	2.34	0.60
1:p:453:GLY:N	1:p:457:GLN:O	2.34	0.60
1:v:312:ASN:OD1	1:v:313:PHE:N	2.34	0.60
1:x:312:ASN:OD1	1:x:313:PHE:N	2.34	0.60
1:5:312:ASN:OD1	1:5:313:PHE:N	2.34	0.60
1:A:693:ARG:NH2	1:G:390:SER:O	2.34	0.60
1:B:325:GLN:HG2	1:B:330:THR:HA	1.82	0.60
1:B:335:ASN:OD1	1:B:336:LEU:N	2.32	0.60
1:E:325:GLN:HG2	1:E:330:THR:HA	1.82	0.60
1:F:335:ASN:OD1	1:F:336:LEU:N	2.32	0.60
1:Z:390:SER:O	1:3:693:ARG:NH2	2.33	0.60
1:b:325:GLN:HG2	1:b:330:THR:HA	1.82	0.60
1:b:335:ASN:OD1	1:b:336:LEU:N	2.32	0.60
1:d:447:ARG:NH1	1:d:450:THR:O	2.33	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:h:453:GLY:N	1:h:457:GLN:O	2.34	0.60
1:j:312:ASN:OD1	1:j:313:PHE:N	2.34	0.60
1:k:453:GLY:N	1:k:457:GLN:O	2.34	0.60
1:m:581:THR:O	1:n:484:ARG:NH2	2.34	0.60
1:o:312:ASN:OD1	1:o:313:PHE:N	2.34	0.60
1:o:335:ASN:OD1	1:o:336:LEU:N	2.32	0.60
1:2:447:ARG:NH1	1:2:450:THR:O	2.33	0.60
1:C:447:ARG:NH1	1:C:450:THR:O	2.33	0.60
1:F:312:ASN:OD1	1:F:313:PHE:N	2.34	0.60
1:H:581:THR:O	1:W:484:ARG:NH2	2.34	0.60
1:H:693:ARG:NH2	1:W:390:SER:O	2.33	0.60
1:R:312:ASN:OD1	1:R:313:PHE:N	2.34	0.60
1:S:581:THR:O	1:U:484:ARG:NH2	2.34	0.60
1:T:390:SER:O	1:l:693:ARG:NH2	2.34	0.60
1:T:453:GLY:N	1:T:457:GLN:O	2.34	0.60
1:b:447:ARG:NH1	1:b:450:THR:O	2.33	0.60
1:f:312:ASN:OD1	1:f:313:PHE:N	2.34	0.60
1:g:312:ASN:OD1	1:g:313:PHE:N	2.34	0.60
1:g:484:ARG:NH2	1:h:581:THR:O	2.34	0.60
1:i:312:ASN:OD1	1:i:313:PHE:N	2.34	0.60
1:o:693:ARG:NH2	1:p:390:SER:O	2.34	0.60
1:q:484:ARG:NH2	1:s:581:THR:O	2.34	0.60
1:t:312:ASN:OD1	1:t:313:PHE:N	2.34	0.60
1:z:581:THR:O	1:1:484:ARG:NH2	2.34	0.60
1:1:453:GLY:N	1:1:457:GLN:O	2.34	0.60
1:3:484:ARG:NH2	1:4:581:THR:O	2.35	0.60
1:5:453:GLY:N	1:5:457:GLN:O	2.34	0.60
1:7:325:GLN:HG2	1:7:330:THR:HA	1.82	0.60
1:8:312:ASN:OD1	1:8:313:PHE:N	2.34	0.60
1:A:312:ASN:OD1	1:A:313:PHE:N	2.34	0.60
1:B:693:ARG:NH2	1:J:390:SER:O	2.34	0.60
1:J:312:ASN:OD1	1:J:313:PHE:N	2.34	0.60
1:L:325:GLN:HG2	1:L:330:THR:HA	1.82	0.60
1:N:581:THR:O	1:P:484:ARG:NH2	2.34	0.60
1:P:312:ASN:OD1	1:P:313:PHE:N	2.34	0.60
1:Q:453:GLY:N	1:Q:457:GLN:O	2.34	0.60
1:V:325:GLN:HG2	1:V:330:THR:HA	1.82	0.60
1:W:581:THR:O	1:Y:484:ARG:NH2	2.35	0.60
1:d:581:THR:O	1:l:484:ARG:NH2	2.34	0.60
1:h:335:ASN:OD1	1:h:336:LEU:N	2.32	0.60
1:q:390:SER:O	1:s:693:ARG:NH2	2.34	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:q:581:THR:O	1:r:484:ARG:NH2	2.35	0.60
1:w:483:TYR:HH	1:w:506:THR:HG1	1.49	0.60
1:6:312:ASN:OD1	1:6:313:PHE:N	2.34	0.60
1:B:581:THR:O	1:J:484:ARG:NH2	2.34	0.60
1:F:484:ARG:NH2	1:Q:581:THR:O	2.35	0.60
1:M:312:ASN:OD1	1:M:313:PHE:N	2.34	0.60
1:M:484:ARG:NH2	1:b:581:THR:O	2.34	0.60
1:X:447:ARG:NH1	1:X:450:THR:O	2.33	0.60
1:c:581:THR:O	1:o:484:ARG:NH2	2.35	0.60
1:k:335:ASN:OD1	1:k:336:LEU:N	2.32	0.60
1:p:447:ARG:NH1	1:p:450:THR:O	2.33	0.60
1:C:325:GLN:HG2	1:C:330:THR:HA	1.82	0.60
1:G:447:ARG:NH1	1:G:450:THR:O	2.33	0.60
1:K:325:GLN:HG2	1:K:330:THR:HA	1.82	0.60
1:N:312:ASN:OD1	1:N:313:PHE:N	2.34	0.60
1:a:312:ASN:OD1	1:a:313:PHE:N	2.34	0.60
1:f:447:ARG:NH1	1:f:450:THR:O	2.34	0.60
1:g:447:ARG:NH1	1:g:450:THR:O	2.33	0.60
1:l:453:GLY:N	1:l:457:GLN:O	2.34	0.60
1:m:325:GLN:HG2	1:m:330:THR:HA	1.82	0.60
1:w:484:ARG:NH2	1:y:581:THR:O	2.34	0.60
1:x:447:ARG:NH1	1:x:450:THR:O	2.33	0.60
1:y:312:ASN:OD1	1:y:313:PHE:N	2.34	0.60
1:y:325:GLN:HG2	1:y:330:THR:HA	1.82	0.60
1:z:453:GLY:N	1:z:457:GLN:O	2.34	0.60
1:2:312:ASN:OD1	1:2:313:PHE:N	2.34	0.60
1:A:484:ARG:NH2	1:I:581:THR:O	2.35	0.60
1:C:312:ASN:OD1	1:C:313:PHE:N	2.34	0.60
1:M:390:SER:O	1:b:693:ARG:NH2	2.34	0.60
1:O:581:THR:O	1:m:484:ARG:NH2	2.35	0.60
1:T:581:THR:O	1:d:484:ARG:NH2	2.35	0.60
1:V:312:ASN:OD1	1:V:313:PHE:N	2.34	0.60
1:Z:325:GLN:HG2	1:Z:330:THR:HA	1.82	0.60
1:b:312:ASN:OD1	1:b:313:PHE:N	2.34	0.60
1:d:312:ASN:OD1	1:d:313:PHE:N	2.34	0.60
1:e:312:ASN:OD1	1:e:313:PHE:N	2.34	0.60
1:f:483:TYR:HH	1:f:506:THR:HG1	1.50	0.60
1:i:581:THR:O	1:j:484:ARG:NH2	2.34	0.60
1:j:447:ARG:NH1	1:j:450:THR:O	2.33	0.60
1:j:581:THR:O	1:k:484:ARG:NH2	2.35	0.60
1:r:581:THR:O	1:s:484:ARG:NH2	2.34	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:w:312:ASN:OD1	1:w:313:PHE:N	2.34	0.60
1:B:484:ARG:NH2	1:L:581:THR:O	2.34	0.60
1:C:581:THR:O	1:b:484:ARG:NH2	2.34	0.60
1:D:325:GLN:HG2	1:D:330:THR:HA	1.82	0.60
1:H:484:ARG:NH2	1:Y:581:THR:O	2.34	0.60
1:L:312:ASN:OD1	1:L:313:PHE:N	2.34	0.60
1:Q:483:TYR:HH	1:Q:506:THR:HG1	1.48	0.60
1:W:312:ASN:OD1	1:W:313:PHE:N	2.34	0.60
1:i:447:ARG:NH1	1:i:450:THR:O	2.33	0.60
1:x:581:THR:O	1:y:484:ARG:NH2	2.34	0.60
1:5:484:ARG:NH2	1:7:581:THR:O	2.35	0.60
1:B:312:ASN:OD1	1:B:313:PHE:N	2.34	0.60
1:K:581:THR:O	1:a:484:ARG:NH2	2.35	0.60
1:Z:449:ASN:HA	1:Z:458:SER:HB3	1.84	0.60
1:Z:485:GLN:HE22	1:Z:537:SER:HG	1.50	0.60
1:m:485:GLN:HE22	1:m:537:SER:HG	1.50	0.60
1:n:449:ASN:HA	1:n:458:SER:HB3	1.84	0.60
1:o:453:GLY:N	1:o:457:GLN:O	2.34	0.60
1:q:312:ASN:OD1	1:q:313:PHE:N	2.34	0.60
1:A:453:GLY:N	1:A:457:GLN:O	2.34	0.59
1:D:581:THR:O	1:N:484:ARG:NH2	2.35	0.59
1:P:530:GLU:C	1:P:532:LYS:H	2.10	0.59
1:R:484:ARG:NH2	1:U:581:THR:O	2.35	0.59
1:m:449:ASN:HA	1:m:458:SER:HB3	1.84	0.59
1:r:525:SER:OG	1:r:561:ASP:OD1	2.16	0.59
1:w:581:THR:O	1:x:484:ARG:NH2	2.34	0.59
1:7:312:ASN:OD1	1:7:313:PHE:N	2.34	0.59
1:8:530:GLU:C	1:8:532:LYS:H	2.10	0.59
1:A:449:ASN:HA	1:A:458:SER:HB3	1.84	0.59
1:E:581:THR:O	1:Q:484:ARG:NH2	2.35	0.59
1:M:449:ASN:HA	1:M:458:SER:HB3	1.84	0.59
1:O:453:GLY:N	1:O:457:GLN:O	2.34	0.59
1:W:530:GLU:C	1:W:532:LYS:H	2.10	0.59
1:X:484:ARG:NH2	1:e:581:THR:O	2.34	0.59
1:Z:581:THR:O	1:4:484:ARG:NH2	2.35	0.59
1:c:484:ARG:NH2	1:p:581:THR:O	2.35	0.59
1:o:449:ASN:HA	1:o:458:SER:HB3	1.84	0.59
1:s:312:ASN:OD1	1:s:313:PHE:N	2.34	0.59
1:t:484:ARG:NH2	1:v:581:THR:O	2.35	0.59
1:z:589:GLN:HA	1:1:496:ASN:HD21	1.67	0.59
1:2:530:GLU:C	1:2:532:LYS:H	2.10	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:3:453:GLY:N	1:3:457:GLN:O	2.34	0.59
1:4:449:ASN:HA	1:4:458:SER:HB3	1.85	0.59
1:C:484:ARG:NH2	1:M:581:THR:O	2.35	0.59
1:D:484:ARG:NH2	1:P:581:THR:O	2.35	0.59
1:E:312:ASN:OD1	1:E:313:PHE:N	2.34	0.59
1:E:484:ARG:NH2	1:F:581:THR:O	2.34	0.59
1:F:325:GLN:HG2	1:F:330:THR:HA	1.82	0.59
1:G:581:THR:O	1:I:484:ARG:NH2	2.35	0.59
1:J:449:ASN:HA	1:J:458:SER:HB3	1.84	0.59
1:J:581:THR:O	1:L:484:ARG:NH2	2.35	0.59
1:d:483:TYR:HH	1:d:506:THR:HG1	1.49	0.59
1:d:530:GLU:C	1:d:532:LYS:H	2.11	0.59
1:e:449:ASN:HA	1:e:458:SER:HB3	1.84	0.59
1:q:530:GLU:C	1:q:532:LYS:H	2.11	0.59
1:v:325:GLN:HG2	1:v:330:THR:HA	1.82	0.59
1:F:530:GLU:C	1:F:532:LYS:H	2.11	0.59
1:H:312:ASN:OD1	1:H:313:PHE:N	2.34	0.59
1:R:449:ASN:HA	1:R:458:SER:HB3	1.84	0.59
1:S:530:GLU:C	1:S:532:LYS:H	2.11	0.59
1:U:325:GLN:HG2	1:U:330:THR:HA	1.82	0.59
1:U:453:GLY:N	1:U:457:GLN:O	2.34	0.59
1:f:449:ASN:HA	1:f:458:SER:HB3	1.84	0.59
1:u:530:GLU:C	1:u:532:LYS:H	2.11	0.59
1:w:449:ASN:HA	1:w:458:SER:HB3	1.84	0.59
1:z:325:GLN:HG2	1:z:330:THR:HA	1.82	0.59
1:1:449:ASN:HA	1:1:458:SER:HB3	1.84	0.59
1:6:325:GLN:HG2	1:6:330:THR:HA	1.82	0.59
1:D:449:ASN:HA	1:D:458:SER:HB3	1.85	0.59
1:H:449:ASN:HA	1:H:458:SER:HB3	1.84	0.59
1:I:453:GLY:N	1:I:457:GLN:O	2.34	0.59
1:K:449:ASN:HA	1:K:458:SER:HB3	1.84	0.59
1:N:530:GLU:C	1:N:532:LYS:H	2.11	0.59
1:T:525:SER:OG	1:T:561:ASP:OD1	2.16	0.59
1:a:530:GLU:C	1:a:532:LYS:H	2.10	0.59
1:e:530:GLU:C	1:e:532:LYS:H	2.10	0.59
1:j:449:ASN:HA	1:j:458:SER:HB3	1.84	0.59
1:l:325:GLN:HG2	1:l:330:THR:HA	1.82	0.59
1:r:449:ASN:HA	1:r:458:SER:HB3	1.84	0.59
1:v:453:GLY:N	1:v:457:GLN:O	2.34	0.59
1:w:530:GLU:C	1:w:532:LYS:H	2.10	0.59
1:6:530:GLU:C	1:6:532:LYS:H	2.11	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:581:THR:O	1:G:484:ARG:NH2	2.35	0.59
1:C:530:GLU:C	1:C:532:LYS:H	2.10	0.59
1:L:530:GLU:C	1:L:532:LYS:H	2.10	0.59
1:R:581:THR:O	1:S:484:ARG:NH2	2.34	0.59
1:T:449:ASN:HA	1:T:458:SER:HB3	1.85	0.59
1:U:530:GLU:C	1:U:532:LYS:H	2.11	0.59
1:V:484:ARG:NH2	1:X:581:THR:O	2.35	0.59
1:Y:449:ASN:HA	1:Y:458:SER:HB3	1.84	0.59
1:c:453:GLY:N	1:c:457:GLN:O	2.34	0.59
1:o:483:TYR:HH	1:o:506:THR:HG1	1.50	0.59
1:s:449:ASN:HA	1:s:458:SER:HB3	1.84	0.59
1:t:449:ASN:HA	1:t:458:SER:HB3	1.85	0.59
1:v:530:GLU:C	1:v:532:LYS:H	2.11	0.59
1:w:453:GLY:N	1:w:457:GLN:O	2.34	0.59
1:6:581:THR:O	1:7:484:ARG:NH2	2.34	0.59
1:F:449:ASN:HA	1:F:458:SER:HB3	1.84	0.59
1:G:530:GLU:C	1:G:532:LYS:H	2.11	0.59
1:O:449:ASN:HA	1:O:458:SER:HB3	1.84	0.59
1:b:530:GLU:C	1:b:532:LYS:H	2.11	0.59
1:n:530:GLU:C	1:n:532:LYS:H	2.11	0.59
1:p:530:GLU:C	1:p:532:LYS:H	2.11	0.59
1:4:530:GLU:C	1:4:532:LYS:H	2.11	0.59
1:6:449:ASN:HA	1:6:458:SER:HB3	1.85	0.59
1:o:581:THR:O	1:p:484:ARG:NH2	2.35	0.59
1:v:483:TYR:HH	1:v:506:THR:HG1	1.48	0.59
1:y:449:ASN:HA	1:y:458:SER:HB3	1.84	0.59
1:A:530:GLU:C	1:A:532:LYS:H	2.10	0.59
1:C:453:GLY:N	1:C:457:GLN:O	2.34	0.59
1:E:483:TYR:HH	1:E:506:THR:HG1	1.51	0.59
1:V:449:ASN:HA	1:V:458:SER:HB3	1.84	0.59
1:X:530:GLU:C	1:X:532:LYS:H	2.11	0.59
1:e:453:GLY:N	1:e:457:GLN:O	2.34	0.59
1:o:530:GLU:C	1:o:532:LYS:H	2.10	0.59
1:t:485:GLN:HE22	1:t:537:SER:HG	1.49	0.59
1:x:530:GLU:C	1:x:532:LYS:H	2.10	0.59
1:3:449:ASN:HA	1:3:458:SER:HB3	1.84	0.59
1:B:530:GLU:C	1:B:532:LYS:H	2.11	0.59
1:E:530:GLU:C	1:E:532:LYS:H	2.10	0.59
1:H:453:GLY:N	1:H:457:GLN:O	2.34	0.59
1:J:453:GLY:N	1:J:457:GLN:O	2.34	0.59
1:K:485:GLN:HE22	1:K:537:SER:HG	1.51	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:525:SER:OG	1:K:561:ASP:OD1	2.16	0.59
1:T:530:GLU:C	1:T:532:LYS:H	2.10	0.59
1:r:530:GLU:C	1:r:532:LYS:H	2.11	0.59
1:s:453:GLY:N	1:s:457:GLN:O	2.34	0.59
1:t:581:THR:O	1:u:484:ARG:NH2	2.35	0.59
1:x:449:ASN:HA	1:x:458:SER:HB3	1.84	0.59
1:y:453:GLY:N	1:y:457:GLN:O	2.34	0.59
1:I:530:GLU:C	1:I:532:LYS:H	2.10	0.58
1:L:453:GLY:N	1:L:457:GLN:O	2.34	0.58
1:M:453:GLY:N	1:M:457:GLN:O	2.34	0.58
1:V:581:THR:O	1:e:484:ARG:NH2	2.35	0.58
1:W:449:ASN:HA	1:W:458:SER:HB3	1.84	0.58
1:Y:530:GLU:C	1:Y:532:LYS:H	2.11	0.58
1:Z:530:GLU:C	1:Z:532:LYS:H	2.10	0.58
1:d:453:GLY:N	1:d:457:GLN:O	2.34	0.58
1:m:530:GLU:C	1:m:532:LYS:H	2.10	0.58
1:p:449:ASN:HA	1:p:458:SER:HB3	1.84	0.58
1:u:581:THR:O	1:v:484:ARG:NH2	2.36	0.58
1:1:530:GLU:C	1:1:532:LYS:H	2.11	0.58
1:7:530:GLU:C	1:7:532:LYS:H	2.11	0.58
1:B:576:TYR:HB3	1:B:595:VAL:HG13	1.86	0.58
1:G:449:ASN:HA	1:G:458:SER:HB3	1.85	0.58
1:K:453:GLY:N	1:K:457:GLN:O	2.34	0.58
1:R:485:GLN:HE22	1:R:537:SER:HG	1.48	0.58
1:V:453:GLY:N	1:V:457:GLN:O	2.34	0.58
1:b:576:TYR:HB3	1:b:595:VAL:HG13	1.86	0.58
1:j:530:GLU:C	1:j:532:LYS:H	2.11	0.58
1:k:449:ASN:HA	1:k:458:SER:HB3	1.84	0.58
1:q:449:ASN:HA	1:q:458:SER:HB3	1.84	0.58
1:u:453:GLY:N	1:u:457:GLN:O	2.34	0.58
1:I:449:ASN:HA	1:I:458:SER:HB3	1.84	0.58
1:J:530:GLU:C	1:J:532:LYS:H	2.10	0.58
1:V:483:TYR:HH	1:V:506:THR:HG1	1.49	0.58
1:X:449:ASN:HA	1:X:458:SER:HB3	1.85	0.58
1:c:449:ASN:HA	1:c:458:SER:HB3	1.84	0.58
1:c:530:GLU:C	1:c:532:LYS:H	2.10	0.58
1:d:449:ASN:HA	1:d:458:SER:HB3	1.84	0.58
1:f:530:GLU:C	1:f:532:LYS:H	2.11	0.58
1:g:449:ASN:HA	1:g:458:SER:HB3	1.84	0.58
1:g:689:GLU:OE2	1:z:294:ARG:NH2	2.36	0.58
1:h:449:ASN:HA	1:h:458:SER:HB3	1.84	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:u:485:GLN:HE22	1:u:537:SER:HG	1.51	0.58
1:2:449:ASN:HA	1:2:458:SER:HB3	1.85	0.58
1:2:453:GLY:N	1:2:457:GLN:O	2.34	0.58
1:C:449:ASN:HA	1:C:458:SER:HB3	1.84	0.58
1:D:453:GLY:N	1:D:457:GLN:O	2.35	0.58
1:H:530:GLU:C	1:H:532:LYS:H	2.11	0.58
1:M:530:GLU:C	1:M:532:LYS:H	2.11	0.58
1:N:483:TYR:HH	1:N:506:THR:HG1	1.48	0.58
1:P:449:ASN:HA	1:P:458:SER:HB3	1.84	0.58
1:R:530:GLU:C	1:R:532:LYS:H	2.10	0.58
1:S:485:GLN:HE22	1:S:537:SER:HG	1.52	0.58
1:V:576:TYR:HB3	1:V:595:VAL:HG13	1.86	0.58
1:g:453:GLY:N	1:g:457:GLN:O	2.34	0.58
1:q:453:GLY:N	1:q:457:GLN:O	2.34	0.58
1:y:576:TYR:HB3	1:y:595:VAL:HG13	1.86	0.58
1:z:530:GLU:C	1:z:532:LYS:H	2.11	0.58
1:3:530:GLU:C	1:3:532:LYS:H	2.10	0.58
1:5:483:TYR:HH	1:5:506:THR:HG1	1.51	0.58
1:8:449:ASN:HA	1:8:458:SER:HB3	1.84	0.58
1:S:453:GLY:N	1:S:457:GLN:O	2.34	0.58
1:g:530:GLU:C	1:g:532:LYS:H	2.11	0.58
1:i:453:GLY:N	1:i:457:GLN:O	2.34	0.58
1:i:530:GLU:C	1:i:532:LYS:H	2.11	0.58
1:k:530:GLU:C	1:k:532:LYS:H	2.10	0.58
1:m:453:GLY:N	1:m:457:GLN:O	2.34	0.58
1:s:530:GLU:C	1:s:532:LYS:H	2.11	0.58
1:A:483:TYR:HH	1:A:506:THR:HG1	1.52	0.58
1:E:576:TYR:HB3	1:E:595:VAL:HG13	1.86	0.58
1:K:530:GLU:C	1:K:532:LYS:H	2.10	0.58
1:K:576:TYR:HB3	1:K:595:VAL:HG13	1.86	0.58
1:L:449:ASN:HA	1:L:458:SER:HB3	1.84	0.58
1:W:453:GLY:N	1:W:457:GLN:O	2.34	0.58
1:X:576:TYR:HB3	1:X:595:VAL:HG13	1.86	0.58
1:Y:576:TYR:HB3	1:Y:595:VAL:HG13	1.86	0.58
1:a:581:THR:O	1:8:484:ARG:NH2	2.36	0.58
1:l:530:GLU:C	1:l:532:LYS:H	2.11	0.58
1:r:576:TYR:HB3	1:r:595:VAL:HG13	1.86	0.58
1:v:449:ASN:HA	1:v:458:SER:HB3	1.84	0.58
1:v:576:TYR:HB3	1:v:595:VAL:HG13	1.86	0.58
1:8:453:GLY:N	1:8:457:GLN:O	2.34	0.58
1:D:530:GLU:C	1:D:532:LYS:H	2.10	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:O:530:GLU:C	1:O:532:LYS:H	2.11	0.58
1:Q:530:GLU:C	1:Q:532:LYS:H	2.11	0.58
1:U:576:TYR:HB3	1:U:595:VAL:HG13	1.86	0.58
1:Z:453:GLY:N	1:Z:457:GLN:O	2.34	0.58
1:b:449:ASN:HA	1:b:458:SER:HB3	1.84	0.58
1:b:453:GLY:N	1:b:457:GLN:O	2.34	0.58
1:h:576:TYR:HB3	1:h:595:VAL:HG13	1.86	0.58
1:i:449:ASN:HA	1:i:458:SER:HB3	1.85	0.58
1:l:449:ASN:HA	1:l:458:SER:HB3	1.84	0.58
1:t:530:GLU:C	1:t:532:LYS:H	2.11	0.58
1:v:689:GLU:OE2	1:y:294:ARG:NH2	2.37	0.58
1:z:455:THR:HA	1:1:497:ASN:HD21	1.68	0.58
1:7:576:TYR:HB3	1:7:595:VAL:HG13	1.86	0.58
1:B:449:ASN:HA	1:B:458:SER:HB3	1.85	0.58
1:D:576:TYR:HB3	1:D:595:VAL:HG13	1.86	0.58
1:F:453:GLY:N	1:F:457:GLN:O	2.34	0.58
1:G:576:TYR:HB3	1:G:595:VAL:HG13	1.86	0.58
1:P:453:GLY:N	1:P:457:GLN:O	2.34	0.58
1:U:449:ASN:HA	1:U:458:SER:HB3	1.84	0.58
1:W:518:ASN:HB3	1:W:519:PRO:CD	2.34	0.58
1:g:518:ASN:HB3	1:g:519:PRO:CD	2.34	0.58
1:i:518:ASN:HB3	1:i:519:PRO:CD	2.34	0.58
1:p:576:TYR:HB3	1:p:595:VAL:HG13	1.86	0.58
1:v:294:ARG:NH2	1:y:689:GLU:OE2	2.37	0.58
1:x:576:TYR:HB3	1:x:595:VAL:HG13	1.86	0.58
1:3:576:TYR:HB3	1:3:595:VAL:HG13	1.86	0.58
1:5:530:GLU:C	1:5:532:LYS:H	2.11	0.58
1:7:483:TYR:HH	1:7:506:THR:HG1	1.51	0.58
1:B:453:GLY:N	1:B:457:GLN:O	2.34	0.58
1:B:518:ASN:HB3	1:B:519:PRO:CD	2.34	0.58
1:D:518:ASN:HB3	1:D:519:PRO:CD	2.34	0.58
1:F:576:TYR:HB3	1:F:595:VAL:HG13	1.86	0.58
1:K:518:ASN:HB3	1:K:519:PRO:CD	2.34	0.58
1:V:530:GLU:C	1:V:532:LYS:H	2.10	0.58
1:W:576:TYR:HB3	1:W:595:VAL:HG13	1.86	0.58
1:j:294:ARG:NH2	1:w:689:GLU:OE2	2.37	0.58
1:k:576:TYR:HB3	1:k:595:VAL:HG13	1.86	0.58
1:q:518:ASN:HB3	1:q:519:PRO:CD	2.34	0.58
1:q:576:TYR:HB3	1:q:595:VAL:HG13	1.86	0.58
1:5:576:TYR:HB3	1:5:595:VAL:HG13	1.86	0.58
1:6:453:GLY:N	1:6:457:GLN:O	2.34	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:449:ASN:HA	1:E:458:SER:HB3	1.84	0.58
1:F:514:ASP:OD1	1:F:514:ASP:N	2.37	0.58
1:M:483:TYR:HH	1:M:506:THR:HG1	1.51	0.58
1:O:576:TYR:HB3	1:O:595:VAL:HG13	1.86	0.58
1:Q:576:TYR:HB3	1:Q:595:VAL:HG13	1.86	0.58
1:R:576:TYR:HB3	1:R:595:VAL:HG13	1.86	0.58
1:a:449:ASN:HA	1:a:458:SER:HB3	1.84	0.58
1:b:518:ASN:HB3	1:b:519:PRO:CD	2.34	0.58
1:z:449:ASN:HA	1:z:458:SER:HB3	1.85	0.58
1:8:576:TYR:HB3	1:8:595:VAL:HG13	1.86	0.58
1:K:390:SER:O	1:8:693:ARG:NH2	2.37	0.57
1:P:518:ASN:HB3	1:P:519:PRO:CD	2.34	0.57
1:P:576:TYR:HB3	1:P:595:VAL:HG13	1.86	0.57
1:h:518:ASN:HB3	1:h:519:PRO:CD	2.34	0.57
1:k:518:ASN:HB3	1:k:519:PRO:CD	2.34	0.57
1:l:576:TYR:HB3	1:l:595:VAL:HG13	1.86	0.57
1:p:689:GLU:OE2	1:s:294:ARG:NH2	2.37	0.57
1:t:576:TYR:HB3	1:t:595:VAL:HG13	1.86	0.57
1:z:576:TYR:HB3	1:z:595:VAL:HG13	1.86	0.57
1:6:514:ASP:OD1	1:6:514:ASP:N	2.37	0.57
1:6:576:TYR:HB3	1:6:595:VAL:HG13	1.86	0.57
1:8:518:ASN:HB3	1:8:519:PRO:CD	2.34	0.57
1:G:235:MET:SD	1:G:238:ARG:NE	2.78	0.57
1:H:518:ASN:HB3	1:H:519:PRO:CD	2.34	0.57
1:P:585:ARG:H	1:P:588:ARG:HB3	1.70	0.57
1:Q:449:ASN:HA	1:Q:458:SER:HB3	1.84	0.57
1:S:449:ASN:HA	1:S:458:SER:HB3	1.85	0.57
1:U:585:ARG:H	1:U:588:ARG:HB3	1.70	0.57
1:V:518:ASN:HB3	1:V:519:PRO:CD	2.34	0.57
1:d:576:TYR:HB3	1:d:595:VAL:HG13	1.86	0.57
1:f:585:ARG:H	1:f:588:ARG:HB3	1.70	0.57
1:g:576:TYR:HB3	1:g:595:VAL:HG13	1.86	0.57
1:h:530:GLU:C	1:h:532:LYS:H	2.11	0.57
1:i:576:TYR:HB3	1:i:595:VAL:HG13	1.86	0.57
1:n:235:MET:SD	1:n:238:ARG:NE	2.78	0.57
1:z:484:ARG:NH2	1:2:581:THR:O	2.37	0.57
1:3:485:GLN:HE22	1:3:537:SER:HG	1.52	0.57
1:4:235:MET:SD	1:4:238:ARG:NE	2.78	0.57
1:5:449:ASN:HA	1:5:458:SER:HB3	1.84	0.57
1:7:449:ASN:HA	1:7:458:SER:HB3	1.85	0.57
1:7:689:GLU:OE2	1:8:294:ARG:NH2	2.37	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:8:585:ARG:H	1:8:588:ARG:HB3	1.70	0.57
1:C:576:TYR:HB3	1:C:595:VAL:HG13	1.86	0.57
1:I:235:MET:SD	1:I:238:ARG:NE	2.78	0.57
1:L:576:TYR:HB3	1:L:595:VAL:HG13	1.86	0.57
1:N:449:ASN:HA	1:N:458:SER:HB3	1.84	0.57
1:O:514:ASP:OD1	1:O:514:ASP:N	2.37	0.57
1:R:453:GLY:N	1:R:457:GLN:O	2.34	0.57
1:R:585:ARG:H	1:R:588:ARG:HB3	1.70	0.57
1:g:585:ARG:H	1:g:588:ARG:HB3	1.70	0.57
1:i:585:ARG:H	1:i:588:ARG:HB3	1.70	0.57
1:j:585:ARG:H	1:j:588:ARG:HB3	1.70	0.57
1:k:514:ASP:N	1:k:514:ASP:OD1	2.37	0.57
1:p:235:MET:SD	1:p:238:ARG:NE	2.78	0.57
1:s:518:ASN:HB3	1:s:519:PRO:CD	2.34	0.57
1:v:585:ARG:H	1:v:588:ARG:HB3	1.70	0.57
1:y:518:ASN:HB3	1:y:519:PRO:CD	2.34	0.57
1:y:530:GLU:C	1:y:532:LYS:H	2.11	0.57
1:z:246:THR:HB	1:z:369:VAL:HG22	1.87	0.57
1:2:576:TYR:HB3	1:2:595:VAL:HG13	1.86	0.57
1:A:235:MET:SD	1:A:238:ARG:NE	2.78	0.57
1:B:235:MET:SD	1:B:238:ARG:NE	2.78	0.57
1:L:235:MET:SD	1:L:238:ARG:NE	2.78	0.57
1:R:518:ASN:HB3	1:R:519:PRO:CD	2.34	0.57
1:Y:485:GLN:HE22	1:Y:537:SER:HG	1.50	0.57
1:b:235:MET:SD	1:b:238:ARG:NE	2.78	0.57
1:c:235:MET:SD	1:c:238:ARG:NE	2.78	0.57
1:d:235:MET:SD	1:d:238:ARG:NE	2.78	0.57
1:e:235:MET:SD	1:e:238:ARG:NE	2.78	0.57
1:f:453:GLY:N	1:f:457:GLN:O	2.34	0.57
1:g:235:MET:SD	1:g:238:ARG:NE	2.78	0.57
1:h:514:ASP:N	1:h:514:ASP:OD1	2.37	0.57
1:j:235:MET:SD	1:j:238:ARG:NE	2.78	0.57
1:o:585:ARG:H	1:o:588:ARG:HB3	1.70	0.57
1:s:235:MET:SD	1:s:238:ARG:NE	2.78	0.57
1:t:453:GLY:N	1:t:457:GLN:O	2.34	0.57
1:t:518:ASN:HB3	1:t:519:PRO:CD	2.34	0.57
1:A:585:ARG:H	1:A:588:ARG:HB3	1.70	0.57
1:C:235:MET:SD	1:C:238:ARG:NE	2.78	0.57
1:G:585:ARG:H	1:G:588:ARG:HB3	1.70	0.57
1:H:235:MET:SD	1:H:238:ARG:NE	2.78	0.57
1:J:235:MET:SD	1:J:238:ARG:NE	2.78	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:235:MET:SD	1:M:238:ARG:NE	2.78	0.57
1:N:246:THR:HB	1:N:369:VAL:HG22	1.87	0.57
1:Q:246:THR:HB	1:Q:369:VAL:HG22	1.87	0.57
1:S:483:TYR:HH	1:S:506:THR:HG1	1.51	0.57
1:V:235:MET:SD	1:V:238:ARG:NE	2.78	0.57
1:W:235:MET:SD	1:W:238:ARG:NE	2.78	0.57
1:Y:235:MET:SD	1:Y:238:ARG:NE	2.78	0.57
1:Y:518:ASN:HB3	1:Y:519:PRO:CD	2.34	0.57
1:Z:518:ASN:HB3	1:Z:519:PRO:CD	2.34	0.57
1:a:246:THR:HB	1:a:369:VAL:HG22	1.87	0.57
1:f:235:MET:SD	1:f:238:ARG:NE	2.78	0.57
1:i:235:MET:SD	1:i:238:ARG:NE	2.78	0.57
1:m:518:ASN:HB3	1:m:519:PRO:CD	2.34	0.57
1:o:235:MET:SD	1:o:238:ARG:NE	2.78	0.57
1:o:576:TYR:HB3	1:o:595:VAL:HG13	1.86	0.57
1:q:235:MET:SD	1:q:238:ARG:NE	2.78	0.57
1:r:235:MET:SD	1:r:238:ARG:NE	2.78	0.57
1:t:585:ARG:H	1:t:588:ARG:HB3	1.70	0.57
1:u:449:ASN:HA	1:u:458:SER:HB3	1.85	0.57
1:w:235:MET:SD	1:w:238:ARG:NE	2.78	0.57
1:x:518:ASN:HB3	1:x:519:PRO:CD	2.34	0.57
1:y:235:MET:SD	1:y:238:ARG:NE	2.78	0.57
1:y:483:TYR:HH	1:y:506:THR:HG1	1.53	0.57
1:2:235:MET:SD	1:2:238:ARG:NE	2.78	0.57
1:3:514:ASP:OD1	1:3:514:ASP:N	2.37	0.57
1:A:576:TYR:HB3	1:A:595:VAL:HG13	1.86	0.57
1:F:585:ARG:H	1:F:588:ARG:HB3	1.70	0.57
1:G:689:GLU:OE2	1:H:294:ARG:NH2	2.38	0.57
1:I:246:THR:HB	1:I:369:VAL:HG22	1.87	0.57
1:Q:585:ARG:H	1:Q:588:ARG:HB3	1.70	0.57
1:S:246:THR:HB	1:S:369:VAL:HG22	1.87	0.57
1:X:518:ASN:HB3	1:X:519:PRO:CD	2.34	0.57
1:Z:235:MET:SD	1:Z:238:ARG:NE	2.78	0.57
1:Z:514:ASP:N	1:Z:514:ASP:OD1	2.37	0.57
1:a:585:ARG:H	1:a:588:ARG:HB3	1.70	0.57
1:l:246:THR:HB	1:l:369:VAL:HG22	1.87	0.57
1:m:235:MET:SD	1:m:238:ARG:NE	2.78	0.57
1:m:514:ASP:N	1:m:514:ASP:OD1	2.37	0.57
1:n:576:TYR:HB3	1:n:595:VAL:HG13	1.86	0.57
1:o:518:ASN:HB3	1:o:519:PRO:CD	2.34	0.57
1:p:585:ARG:H	1:p:588:ARG:HB3	1.70	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:r:485:GLN:HE22	1:r:537:SER:HG	1.50	0.57
1:r:518:ASN:HB3	1:r:519:PRO:CD	2.34	0.57
1:u:483:TYR:HH	1:u:506:THR:HG1	1.52	0.57
1:w:585:ARG:H	1:w:588:ARG:HB3	1.70	0.57
1:4:396:GLU:OE1	1:4:396:GLU:N	2.30	0.57
1:5:246:THR:HB	1:5:369:VAL:HG22	1.87	0.57
1:A:246:THR:HB	1:A:369:VAL:HG22	1.87	0.57
1:A:518:ASN:HB3	1:A:519:PRO:CD	2.34	0.57
1:B:585:ARG:H	1:B:588:ARG:HB3	1.70	0.57
1:E:235:MET:SD	1:E:238:ARG:NE	2.78	0.57
1:F:235:MET:SD	1:F:238:ARG:NE	2.78	0.57
1:G:483:TYR:HH	1:G:506:THR:HG1	1.51	0.57
1:K:614:GLN:CD	1:K:614:GLN:H	2.13	0.57
1:N:585:ARG:H	1:N:588:ARG:HB3	1.70	0.57
1:O:614:GLN:H	1:O:614:GLN:CD	2.13	0.57
1:T:614:GLN:H	1:T:614:GLN:CD	2.13	0.57
1:V:585:ARG:H	1:V:588:ARG:HB3	1.70	0.57
1:W:585:ARG:H	1:W:588:ARG:HB3	1.70	0.57
1:a:485:GLN:HE22	1:a:537:SER:HG	1.52	0.57
1:a:689:GLU:OE2	1:3:294:ARG:NH2	2.37	0.57
1:c:246:THR:HB	1:c:369:VAL:HG22	1.87	0.57
1:e:585:ARG:H	1:e:588:ARG:HB3	1.70	0.57
1:f:576:TYR:HB3	1:f:595:VAL:HG13	1.86	0.57
1:j:453:GLY:N	1:j:457:GLN:O	2.34	0.57
1:j:576:TYR:HB3	1:j:595:VAL:HG13	1.86	0.57
1:j:689:GLU:OE2	1:w:294:ARG:NH2	2.38	0.57
1:o:246:THR:HB	1:o:369:VAL:HG22	1.87	0.57
1:p:614:GLN:H	1:p:614:GLN:CD	2.13	0.57
1:q:585:ARG:H	1:q:588:ARG:HB3	1.70	0.57
1:q:689:GLU:OE2	1:x:294:ARG:NH2	2.38	0.57
1:y:585:ARG:H	1:y:588:ARG:HB3	1.70	0.57
1:1:585:ARG:H	1:1:588:ARG:HB3	1.69	0.57
1:1:614:GLN:H	1:1:614:GLN:CD	2.13	0.57
1:4:576:TYR:HB3	1:4:595:VAL:HG13	1.86	0.57
1:5:585:ARG:H	1:5:588:ARG:HB3	1.70	0.57
1:6:585:ARG:H	1:6:588:ARG:HB3	1.70	0.57
1:7:614:GLN:H	1:7:614:GLN:CD	2.13	0.57
1:8:614:GLN:CD	1:8:614:GLN:H	2.13	0.57
1:B:614:GLN:H	1:B:614:GLN:CD	2.13	0.57
1:D:624:THR:O	1:D:627:HIS:NE2	2.38	0.57
1:E:614:GLN:H	1:E:614:GLN:CD	2.13	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:614:GLN:H	1:G:614:GLN:CD	2.13	0.57
1:H:624:THR:O	1:H:627:HIS:NE2	2.38	0.57
1:K:624:THR:O	1:K:627:HIS:NE2	2.38	0.57
1:L:614:GLN:H	1:L:614:GLN:CD	2.13	0.57
1:M:518:ASN:HB3	1:M:519:PRO:CD	2.34	0.57
1:N:485:GLN:HE22	1:N:537:SER:HG	1.52	0.57
1:P:624:THR:O	1:P:627:HIS:NE2	2.38	0.57
1:R:624:THR:O	1:R:627:HIS:NE2	2.38	0.57
1:T:585:ARG:H	1:T:588:ARG:HB3	1.69	0.57
1:U:294:ARG:NH2	1:V:689:GLU:OE2	2.38	0.57
1:U:485:GLN:HE22	1:U:537:SER:HG	1.53	0.57
1:X:453:GLY:N	1:X:457:GLN:O	2.34	0.57
1:Y:585:ARG:H	1:Y:588:ARG:HB3	1.70	0.57
1:Y:689:GLU:OE2	1:Z:294:ARG:NH2	2.38	0.57
1:Z:246:THR:HB	1:Z:369:VAL:HG22	1.87	0.57
1:e:518:ASN:HB3	1:e:519:PRO:CD	2.34	0.57
1:e:689:GLU:OE2	1:f:294:ARG:NH2	2.38	0.57
1:g:246:THR:HB	1:g:369:VAL:HG22	1.87	0.57
1:g:614:GLN:H	1:g:614:GLN:CD	2.13	0.57
1:h:585:ARG:H	1:h:588:ARG:HB3	1.70	0.57
1:i:614:GLN:CD	1:i:614:GLN:H	2.13	0.57
1:j:518:ASN:HB3	1:j:519:PRO:CD	2.34	0.57
1:l:235:MET:SD	1:l:238:ARG:NE	2.78	0.57
1:r:585:ARG:H	1:r:588:ARG:HB3	1.70	0.57
1:s:614:GLN:CD	1:s:614:GLN:H	2.13	0.57
1:s:624:THR:O	1:s:627:HIS:NE2	2.38	0.57
1:t:624:THR:O	1:t:627:HIS:NE2	2.38	0.57
1:u:235:MET:SD	1:u:238:ARG:NE	2.78	0.57
1:u:246:THR:HB	1:u:369:VAL:HG22	1.87	0.57
1:u:518:ASN:HB3	1:u:519:PRO:CD	2.34	0.57
1:w:518:ASN:HB3	1:w:519:PRO:CD	2.34	0.57
1:z:235:MET:SD	1:z:238:ARG:NE	2.78	0.57
1:3:614:GLN:CD	1:3:614:GLN:H	2.13	0.57
1:7:235:MET:SD	1:7:238:ARG:NE	2.78	0.57
1:7:585:ARG:H	1:7:588:ARG:HB3	1.70	0.57
1:8:624:THR:O	1:8:627:HIS:NE2	2.38	0.57
1:B:246:THR:HB	1:B:369:VAL:HG22	1.87	0.57
1:C:614:GLN:CD	1:C:614:GLN:H	2.13	0.57
1:D:235:MET:SD	1:D:238:ARG:NE	2.78	0.57
1:D:614:GLN:H	1:D:614:GLN:CD	2.13	0.57
1:E:518:ASN:HB3	1:E:519:PRO:CD	2.34	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:246:THR:HB	1:F:369:VAL:HG22	1.87	0.57
1:H:614:GLN:CD	1:H:614:GLN:H	2.13	0.57
1:J:518:ASN:HB3	1:J:519:PRO:CD	2.34	0.57
1:K:235:MET:SD	1:K:238:ARG:NE	2.78	0.57
1:O:518:ASN:HB3	1:O:519:PRO:CD	2.34	0.57
1:R:614:GLN:H	1:R:614:GLN:CD	2.13	0.57
1:S:235:MET:SD	1:S:238:ARG:NE	2.78	0.57
1:S:518:ASN:HB3	1:S:519:PRO:CD	2.34	0.57
1:S:576:TYR:HB3	1:S:595:VAL:HG13	1.86	0.57
1:T:518:ASN:HB3	1:T:519:PRO:CD	2.34	0.57
1:b:585:ARG:H	1:b:588:ARG:HB3	1.70	0.57
1:b:614:GLN:H	1:b:614:GLN:CD	2.13	0.57
1:i:246:THR:HB	1:i:369:VAL:HG22	1.87	0.57
1:k:585:ARG:H	1:k:588:ARG:HB3	1.70	0.57
1:l:518:ASN:HB3	1:l:519:PRO:CD	2.34	0.57
1:m:246:THR:HB	1:m:369:VAL:HG22	1.87	0.57
1:n:396:GLU:OE1	1:n:396:GLU:N	2.30	0.57
1:n:518:ASN:HB3	1:n:519:PRO:CD	2.34	0.57
1:s:585:ARG:H	1:s:588:ARG:HB3	1.70	0.57
1:t:614:GLN:CD	1:t:614:GLN:H	2.13	0.57
1:x:624:THR:O	1:x:627:HIS:NE2	2.38	0.57
1:1:518:ASN:HB3	1:1:519:PRO:CD	2.34	0.57
1:3:518:ASN:HB3	1:3:519:PRO:CD	2.34	0.57
1:4:518:ASN:HB3	1:4:519:PRO:CD	2.34	0.57
1:4:614:GLN:H	1:4:614:GLN:CD	2.13	0.57
1:6:235:MET:SD	1:6:238:ARG:NE	2.78	0.57
1:7:518:ASN:HB3	1:7:519:PRO:CD	2.34	0.57
1:C:396:GLU:OE1	1:C:396:GLU:N	2.30	0.57
1:E:585:ARG:H	1:E:588:ARG:HB3	1.70	0.57
1:G:246:THR:HB	1:G:369:VAL:HG22	1.87	0.57
1:H:585:ARG:H	1:H:588:ARG:HB3	1.70	0.57
1:I:518:ASN:HB3	1:I:519:PRO:CD	2.34	0.57
1:M:614:GLN:H	1:M:614:GLN:CD	2.13	0.57
1:O:235:MET:SD	1:O:238:ARG:NE	2.78	0.57
1:P:235:MET:SD	1:P:238:ARG:NE	2.78	0.57
1:P:614:GLN:CD	1:P:614:GLN:H	2.13	0.57
1:U:624:THR:O	1:U:627:HIS:NE2	2.38	0.57
1:V:246:THR:HB	1:V:369:VAL:HG22	1.87	0.57
1:W:689:GLU:OE2	1:X:294:ARG:NH2	2.38	0.57
1:X:235:MET:SD	1:X:238:ARG:NE	2.78	0.57
1:X:246:THR:HB	1:X:369:VAL:HG22	1.87	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:X:624:THR:O	1:X:627:HIS:NE2	2.38	0.57
1:Y:246:THR:HB	1:Y:369:VAL:HG22	1.87	0.57
1:b:246:THR:HB	1:b:369:VAL:HG22	1.87	0.57
1:c:585:ARG:H	1:c:588:ARG:HB3	1.70	0.57
1:e:246:THR:HB	1:e:369:VAL:HG22	1.87	0.57
1:f:518:ASN:HB3	1:f:519:PRO:CD	2.34	0.57
1:k:614:GLN:CD	1:k:614:GLN:H	2.13	0.57
1:p:246:THR:HB	1:p:369:VAL:HG22	1.87	0.57
1:p:518:ASN:HB3	1:p:519:PRO:CD	2.34	0.57
1:r:246:THR:HB	1:r:369:VAL:HG22	1.87	0.57
1:r:624:THR:O	1:r:627:HIS:NE2	2.38	0.57
1:s:246:THR:HB	1:s:369:VAL:HG22	1.87	0.57
1:s:396:GLU:OE1	1:s:396:GLU:N	2.30	0.57
1:u:576:TYR:HB3	1:u:595:VAL:HG13	1.86	0.57
1:u:614:GLN:H	1:u:614:GLN:CD	2.13	0.57
1:v:485:GLN:HE22	1:v:537:SER:HG	1.53	0.57
1:w:246:THR:HB	1:w:369:VAL:HG22	1.87	0.57
1:w:614:GLN:H	1:w:614:GLN:CD	2.13	0.57
1:x:235:MET:SD	1:x:238:ARG:NE	2.78	0.57
1:x:453:GLY:N	1:x:457:GLN:O	2.34	0.57
1:y:246:THR:HB	1:y:369:VAL:HG22	1.87	0.57
1:z:518:ASN:HB3	1:z:519:PRO:CD	2.34	0.57
1:2:689:GLU:OE2	1:4:294:ARG:NH2	2.38	0.57
1:6:246:THR:HB	1:6:369:VAL:HG22	1.87	0.57
1:G:518:ASN:HB3	1:G:519:PRO:CD	2.34	0.56
1:I:576:TYR:HB3	1:I:595:VAL:HG13	1.86	0.56
1:I:585:ARG:H	1:I:588:ARG:HB3	1.70	0.56
1:J:614:GLN:H	1:J:614:GLN:CD	2.13	0.56
1:Q:624:THR:O	1:Q:627:HIS:NE2	2.38	0.56
1:S:614:GLN:CD	1:S:614:GLN:H	2.13	0.56
1:U:689:GLU:OE2	1:V:294:ARG:NH2	2.38	0.56
1:Y:624:THR:O	1:Y:627:HIS:NE2	2.38	0.56
1:a:453:GLY:N	1:a:457:GLN:O	2.34	0.56
1:b:689:GLU:OE2	1:c:294:ARG:NH2	2.38	0.56
1:d:294:ARG:NH2	1:n:689:GLU:OE2	2.38	0.56
1:e:576:TYR:HB3	1:e:595:VAL:HG13	1.86	0.56
1:e:614:GLN:H	1:e:614:GLN:CD	2.13	0.56
1:h:614:GLN:H	1:h:614:GLN:CD	2.13	0.56
1:l:614:GLN:CD	1:l:614:GLN:H	2.13	0.56
1:o:689:GLU:OE2	1:6:294:ARG:NH2	2.38	0.56
1:v:624:THR:O	1:v:627:HIS:NE2	2.38	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:x:246:THR:HB	1:x:369:VAL:HG22	1.87	0.56
1:x:585:ARG:H	1:x:588:ARG:HB3	1.70	0.56
1:z:614:GLN:H	1:z:614:GLN:CD	2.13	0.56
1:2:294:ARG:NH2	1:4:689:GLU:OE2	2.38	0.56
1:3:235:MET:SD	1:3:238:ARG:NE	2.78	0.56
1:A:294:ARG:NH2	1:F:689:GLU:OE2	2.38	0.56
1:H:246:THR:HB	1:H:369:VAL:HG22	1.87	0.56
1:I:624:THR:O	1:I:627:HIS:NE2	2.38	0.56
1:L:518:ASN:HB3	1:L:519:PRO:CD	2.34	0.56
1:N:689:GLU:OE2	1:O:294:ARG:NH2	2.38	0.56
1:S:416:GLU:OE1	1:S:416:GLU:N	2.39	0.56
1:S:689:GLU:OE2	1:T:294:ARG:NH2	2.38	0.56
1:X:585:ARG:H	1:X:588:ARG:HB3	1.70	0.56
1:a:576:TYR:HB3	1:a:595:VAL:HG13	1.86	0.56
1:c:518:ASN:HB3	1:c:519:PRO:CD	2.34	0.56
1:d:416:GLU:N	1:d:416:GLU:OE1	2.38	0.56
1:d:689:GLU:OE2	1:n:294:ARG:NH2	2.38	0.56
1:g:396:GLU:OE1	1:g:396:GLU:N	2.30	0.56
1:g:624:THR:O	1:g:627:HIS:NE2	2.38	0.56
1:i:624:THR:O	1:i:627:HIS:NE2	2.38	0.56
1:m:294:ARG:NH2	1:r:689:GLU:OE2	2.39	0.56
1:n:614:GLN:CD	1:n:614:GLN:H	2.13	0.56
1:w:576:TYR:HB3	1:w:595:VAL:HG13	1.86	0.56
1:5:624:THR:O	1:5:627:HIS:NE2	2.38	0.56
1:6:518:ASN:HB3	1:6:519:PRO:CD	2.34	0.56
1:8:235:MET:SD	1:8:238:ARG:NE	2.78	0.56
1:B:689:GLU:OE2	1:I:294:ARG:NH2	2.38	0.56
1:C:518:ASN:HB3	1:C:519:PRO:CD	2.34	0.56
1:D:689:GLU:OE2	1:M:294:ARG:NH2	2.38	0.56
1:E:416:GLU:OE1	1:E:416:GLU:N	2.38	0.56
1:E:624:THR:O	1:E:627:HIS:NE2	2.38	0.56
1:F:518:ASN:HB3	1:F:519:PRO:CD	2.34	0.56
1:F:624:THR:O	1:F:627:HIS:NE2	2.38	0.56
1:I:416:GLU:N	1:I:416:GLU:OE1	2.39	0.56
1:I:614:GLN:H	1:I:614:GLN:CD	2.13	0.56
1:J:246:THR:HB	1:J:369:VAL:HG22	1.87	0.56
1:J:294:ARG:NH2	1:K:689:GLU:OE2	2.38	0.56
1:J:689:GLU:OE2	1:K:294:ARG:NH2	2.38	0.56
1:L:246:THR:HB	1:L:369:VAL:HG22	1.87	0.56
1:L:396:GLU:OE1	1:L:396:GLU:N	2.30	0.56
1:M:246:THR:HB	1:M:369:VAL:HG22	1.87	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:585:ARG:H	1:M:588:ARG:HB3	1.69	0.56
1:N:453:GLY:N	1:N:457:GLN:O	2.34	0.56
1:N:518:ASN:HB3	1:N:519:PRO:CD	2.34	0.56
1:N:576:TYR:HB3	1:N:595:VAL:HG13	1.86	0.56
1:P:416:GLU:OE1	1:P:416:GLU:N	2.39	0.56
1:Q:235:MET:SD	1:Q:238:ARG:NE	2.78	0.56
1:Q:396:GLU:OE1	1:Q:396:GLU:N	2.30	0.56
1:Q:416:GLU:N	1:Q:416:GLU:OE1	2.38	0.56
1:Q:518:ASN:HB3	1:Q:519:PRO:CD	2.34	0.56
1:R:246:THR:HB	1:R:369:VAL:HG22	1.87	0.56
1:R:416:GLU:OE1	1:R:416:GLU:N	2.38	0.56
1:T:246:THR:HB	1:T:369:VAL:HG22	1.87	0.56
1:T:485:GLN:HE22	1:T:537:SER:HG	1.49	0.56
1:U:235:MET:SD	1:U:238:ARG:NE	2.78	0.56
1:U:518:ASN:HB3	1:U:519:PRO:CD	2.34	0.56
1:U:614:GLN:H	1:U:614:GLN:CD	2.13	0.56
1:V:416:GLU:OE1	1:V:416:GLU:N	2.38	0.56
1:X:614:GLN:CD	1:X:614:GLN:H	2.13	0.56
1:Y:416:GLU:OE1	1:Y:416:GLU:N	2.39	0.56
1:Z:585:ARG:H	1:Z:588:ARG:HB3	1.69	0.56
1:Z:614:GLN:H	1:Z:614:GLN:CD	2.13	0.56
1:a:518:ASN:HB3	1:a:519:PRO:CD	2.34	0.56
1:c:416:GLU:OE1	1:c:416:GLU:N	2.39	0.56
1:c:624:THR:O	1:c:627:HIS:NE2	2.38	0.56
1:d:624:THR:O	1:d:627:HIS:NE2	2.38	0.56
1:f:614:GLN:CD	1:f:614:GLN:H	2.13	0.56
1:g:416:GLU:N	1:g:416:GLU:OE1	2.38	0.56
1:h:294:ARG:NH2	1:k:689:GLU:OE2	2.37	0.56
1:h:416:GLU:OE1	1:h:416:GLU:N	2.38	0.56
1:h:689:GLU:OE2	1:k:294:ARG:NH2	2.37	0.56
1:i:689:GLU:OE2	1:l:294:ARG:NH2	2.38	0.56
1:j:614:GLN:H	1:j:614:GLN:CD	2.13	0.56
1:k:416:GLU:OE1	1:k:416:GLU:N	2.39	0.56
1:m:614:GLN:H	1:m:614:GLN:CD	2.13	0.56
1:n:483:TYR:HH	1:n:506:THR:HG1	1.51	0.56
1:o:294:ARG:NH2	1:6:689:GLU:OE2	2.38	0.56
1:r:416:GLU:OE1	1:r:416:GLU:N	2.39	0.56
1:t:246:THR:HB	1:t:369:VAL:HG22	1.87	0.56
1:u:416:GLU:OE1	1:u:416:GLU:N	2.38	0.56
1:u:689:GLU:OE2	1:1:294:ARG:NH2	2.38	0.56
1:v:235:MET:SD	1:v:238:ARG:NE	2.78	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:v:518:ASN:HB3	1:v:519:PRO:CD	2.34	0.56
1:v:614:GLN:CD	1:v:614:GLN:H	2.13	0.56
1:y:416:GLU:OE1	1:y:416:GLU:N	2.38	0.56
1:y:624:THR:O	1:y:627:HIS:NE2	2.38	0.56
1:1:227:ASN:O	1:1:229:HIS:ND1	2.39	0.56
1:1:246:THR:HB	1:1:369:VAL:HG22	1.87	0.56
1:2:416:GLU:OE1	1:2:416:GLU:N	2.39	0.56
1:2:614:GLN:H	1:2:614:GLN:CD	2.13	0.56
1:2:624:THR:O	1:2:627:HIS:NE2	2.38	0.56
1:5:235:MET:SD	1:5:238:ARG:NE	2.78	0.56
1:5:416:GLU:OE1	1:5:416:GLU:N	2.39	0.56
1:5:518:ASN:HB3	1:5:519:PRO:CD	2.34	0.56
1:6:624:THR:O	1:6:627:HIS:NE2	2.38	0.56
1:7:416:GLU:OE1	1:7:416:GLU:N	2.39	0.56
1:7:624:THR:O	1:7:627:HIS:NE2	2.38	0.56
1:8:416:GLU:OE1	1:8:416:GLU:N	2.38	0.56
1:C:246:THR:HB	1:C:369:VAL:HG22	1.87	0.56
1:D:246:THR:HB	1:D:369:VAL:HG22	1.87	0.56
1:J:287:PHE:HB2	1:J:613:LEU:O	2.06	0.56
1:K:246:THR:HB	1:K:369:VAL:HG22	1.87	0.56
1:M:287:PHE:HB2	1:M:613:LEU:O	2.06	0.56
1:T:227:ASN:O	1:T:229:HIS:ND1	2.39	0.56
1:U:287:PHE:HB2	1:U:613:LEU:O	2.06	0.56
1:V:287:PHE:HB2	1:V:613:LEU:O	2.06	0.56
1:V:624:THR:O	1:V:627:HIS:NE2	2.38	0.56
1:a:624:THR:O	1:a:627:HIS:NE2	2.38	0.56
1:c:576:TYR:HB3	1:c:595:VAL:HG13	1.86	0.56
1:d:525:SER:OG	1:d:561:ASP:OD1	2.16	0.56
1:h:235:MET:SD	1:h:238:ARG:NE	2.78	0.56
1:i:416:GLU:OE1	1:i:416:GLU:N	2.39	0.56
1:m:416:GLU:OE1	1:m:416:GLU:N	2.38	0.56
1:n:453:GLY:N	1:n:457:GLN:O	2.34	0.56
1:p:525:SER:OG	1:p:561:ASP:OD1	2.16	0.56
1:t:235:MET:SD	1:t:238:ARG:NE	2.78	0.56
1:w:287:PHE:HB2	1:w:613:LEU:O	2.06	0.56
1:x:227:ASN:O	1:x:229:HIS:ND1	2.39	0.56
1:x:614:GLN:H	1:x:614:GLN:CD	2.13	0.56
1:y:287:PHE:HB2	1:y:613:LEU:O	2.06	0.56
1:z:416:GLU:N	1:z:416:GLU:OE1	2.39	0.56
1:z:585:ARG:H	1:z:588:ARG:HB3	1.70	0.56
1:8:483:TYR:HH	1:8:506:THR:HG1	1.51	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:453:GLY:N	1:E:457:GLN:O	2.34	0.56
1:G:525:SER:OG	1:G:561:ASP:OD1	2.16	0.56
1:H:576:TYR:HB3	1:H:595:VAL:HG13	1.86	0.56
1:J:576:TYR:HB3	1:J:595:VAL:HG13	1.86	0.56
1:M:576:TYR:HB3	1:M:595:VAL:HG13	1.86	0.56
1:P:287:PHE:HB2	1:P:613:LEU:O	2.06	0.56
1:R:235:MET:SD	1:R:238:ARG:NE	2.78	0.56
1:S:227:ASN:O	1:S:229:HIS:ND1	2.39	0.56
1:S:585:ARG:H	1:S:588:ARG:HB3	1.70	0.56
1:X:227:ASN:O	1:X:229:HIS:ND1	2.39	0.56
1:X:287:PHE:HB2	1:X:613:LEU:O	2.06	0.56
1:Z:416:GLU:OE1	1:Z:416:GLU:N	2.39	0.56
1:a:235:MET:SD	1:a:238:ARG:NE	2.78	0.56
1:e:287:PHE:HB2	1:e:613:LEU:O	2.06	0.56
1:g:496:ASN:HD21	1:h:589:GLN:HA	1.71	0.56
1:h:246:THR:HB	1:h:369:VAL:HG22	1.87	0.56
1:k:235:MET:SD	1:k:238:ARG:NE	2.78	0.56
1:l:416:GLU:N	1:l:416:GLU:OE1	2.39	0.56
1:l:585:ARG:H	1:l:588:ARG:HB3	1.70	0.56
1:m:576:TYR:HB3	1:m:595:VAL:HG13	1.86	0.56
1:t:287:PHE:HB2	1:t:613:LEU:O	2.06	0.56
1:t:416:GLU:N	1:t:416:GLU:OE1	2.39	0.56
1:u:287:PHE:HB2	1:u:613:LEU:O	2.06	0.56
1:v:246:THR:HB	1:v:369:VAL:HG22	1.87	0.56
1:v:287:PHE:HB2	1:v:613:LEU:O	2.06	0.56
1:x:500:TYR:O	1:x:501:SER:OG	2.24	0.56
1:y:514:ASP:OD1	1:y:514:ASP:N	2.37	0.56
1:1:235:MET:SD	1:1:238:ARG:NE	2.78	0.56
1:1:624:THR:O	1:1:627:HIS:NE2	2.38	0.56
1:2:525:SER:OG	1:2:561:ASP:OD1	2.16	0.56
1:4:453:GLY:N	1:4:457:GLN:O	2.34	0.56
1:5:396:GLU:OE1	1:5:396:GLU:N	2.30	0.56
1:8:287:PHE:HB2	1:8:613:LEU:O	2.06	0.56
1:B:294:ARG:NH2	1:I:689:GLU:OE2	2.38	0.56
1:D:287:PHE:HB2	1:D:613:LEU:O	2.06	0.56
1:F:227:ASN:O	1:F:229:HIS:ND1	2.39	0.56
1:F:416:GLU:OE1	1:F:416:GLU:N	2.38	0.56
1:F:505:ALA:O	1:F:507:LYS:HG3	2.06	0.56
1:G:227:ASN:O	1:G:229:HIS:ND1	2.39	0.56
1:J:416:GLU:OE1	1:J:416:GLU:N	2.38	0.56
1:K:287:PHE:HB2	1:K:613:LEU:O	2.06	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:496:ASN:HA	1:b:586:GLY:HA2	1.88	0.56
1:N:235:MET:SD	1:N:238:ARG:NE	2.78	0.56
1:P:246:THR:HB	1:P:369:VAL:HG22	1.87	0.56
1:R:287:PHE:HB2	1:R:613:LEU:O	2.06	0.56
1:S:287:PHE:HB2	1:S:613:LEU:O	2.06	0.56
1:T:235:MET:SD	1:T:238:ARG:NE	2.78	0.56
1:U:246:THR:HB	1:U:369:VAL:HG22	1.87	0.56
1:X:500:TYR:O	1:X:501:SER:OG	2.24	0.56
1:Z:576:TYR:HB3	1:Z:595:VAL:HG13	1.86	0.56
1:b:416:GLU:OE1	1:b:416:GLU:N	2.39	0.56
1:d:505:ALA:O	1:d:507:LYS:HG3	2.06	0.56
1:d:518:ASN:HB3	1:d:519:PRO:CD	2.34	0.56
1:d:614:GLN:H	1:d:614:GLN:CD	2.13	0.56
1:e:416:GLU:OE1	1:e:416:GLU:N	2.39	0.56
1:g:227:ASN:O	1:g:229:HIS:ND1	2.39	0.56
1:g:699:GLN:HB2	1:z:701:THR:OG1	2.05	0.56
1:h:227:ASN:O	1:h:229:HIS:ND1	2.39	0.56
1:i:396:GLU:OE1	1:i:396:GLU:N	2.30	0.56
1:k:227:ASN:O	1:k:229:HIS:ND1	2.39	0.56
1:k:246:THR:HB	1:k:369:VAL:HG22	1.87	0.56
1:m:585:ARG:H	1:m:588:ARG:HB3	1.70	0.56
1:n:416:GLU:OE1	1:n:416:GLU:N	2.38	0.56
1:n:585:ARG:H	1:n:588:ARG:HB3	1.70	0.56
1:o:614:GLN:H	1:o:614:GLN:CD	2.13	0.56
1:p:227:ASN:O	1:p:229:HIS:ND1	2.39	0.56
1:p:624:THR:O	1:p:627:HIS:NE2	2.38	0.56
1:q:614:GLN:CD	1:q:614:GLN:H	2.13	0.56
1:s:576:TYR:HB3	1:s:595:VAL:HG13	1.86	0.56
1:u:227:ASN:O	1:u:229:HIS:ND1	2.39	0.56
1:v:416:GLU:OE1	1:v:416:GLU:N	2.38	0.56
1:2:505:ALA:O	1:2:507:LYS:HG3	2.06	0.56
1:2:518:ASN:HB3	1:2:519:PRO:CD	2.34	0.56
1:6:505:ALA:O	1:6:507:LYS:HG3	2.06	0.56
1:A:227:ASN:O	1:A:229:HIS:ND1	2.39	0.56
1:A:614:GLN:H	1:A:614:GLN:CD	2.13	0.56
1:B:416:GLU:OE1	1:B:416:GLU:N	2.38	0.56
1:E:227:ASN:O	1:E:229:HIS:ND1	2.39	0.56
1:E:246:THR:HB	1:E:369:VAL:HG22	1.87	0.56
1:G:624:THR:O	1:G:627:HIS:NE2	2.38	0.56
1:J:585:ARG:H	1:J:588:ARG:HB3	1.70	0.56
1:M:416:GLU:OE1	1:M:416:GLU:N	2.38	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:T:396:GLU:OE1	1:T:396:GLU:N	2.30	0.56
1:T:624:THR:O	1:T:627:HIS:NE2	2.38	0.56
1:U:416:GLU:OE1	1:U:416:GLU:N	2.39	0.56
1:V:227:ASN:O	1:V:229:HIS:ND1	2.39	0.56
1:W:614:GLN:H	1:W:614:GLN:CD	2.13	0.56
1:X:514:ASP:N	1:X:514:ASP:OD1	2.37	0.56
1:b:287:PHE:HB2	1:b:613:LEU:O	2.06	0.56
1:c:287:PHE:HB2	1:c:613:LEU:O	2.06	0.56
1:c:614:GLN:CD	1:c:614:GLN:H	2.13	0.56
1:e:624:THR:O	1:e:627:HIS:NE2	2.38	0.56
1:i:227:ASN:O	1:i:229:HIS:ND1	2.39	0.56
1:i:294:ARG:NH2	1:l:689:GLU:OE2	2.38	0.56
1:l:227:ASN:O	1:l:229:HIS:ND1	2.39	0.56
1:l:624:THR:O	1:l:627:HIS:NE2	2.38	0.56
1:p:416:GLU:OE1	1:p:416:GLU:N	2.38	0.56
1:u:396:GLU:OE1	1:u:396:GLU:N	2.30	0.56
1:u:585:ARG:H	1:u:588:ARG:HB3	1.70	0.56
1:w:416:GLU:N	1:w:416:GLU:OE1	2.39	0.56
1:x:287:PHE:HB2	1:x:613:LEU:O	2.06	0.56
1:y:227:ASN:O	1:y:229:HIS:ND1	2.39	0.56
1:y:396:GLU:OE1	1:y:396:GLU:N	2.30	0.56
1:z:227:ASN:O	1:z:229:HIS:ND1	2.39	0.56
1:1:396:GLU:OE1	1:1:396:GLU:N	2.30	0.56
1:4:585:ARG:H	1:4:588:ARG:HB3	1.69	0.56
1:6:227:ASN:O	1:6:229:HIS:ND1	2.39	0.56
1:6:416:GLU:OE1	1:6:416:GLU:N	2.39	0.56
1:7:227:ASN:O	1:7:229:HIS:ND1	2.39	0.56
1:7:246:THR:HB	1:7:369:VAL:HG22	1.87	0.56
1:7:453:GLY:N	1:7:457:GLN:O	2.34	0.56
1:8:246:THR:HB	1:8:369:VAL:HG22	1.87	0.56
1:A:416:GLU:N	1:A:416:GLU:OE1	2.39	0.56
1:A:689:GLU:OE2	1:F:294:ARG:NH2	2.38	0.56
1:B:287:PHE:HB2	1:B:613:LEU:O	2.06	0.56
1:C:585:ARG:H	1:C:588:ARG:HB3	1.70	0.56
1:D:416:GLU:N	1:D:416:GLU:OE1	2.38	0.56
1:G:416:GLU:OE1	1:G:416:GLU:N	2.39	0.56
1:H:505:ALA:O	1:H:507:LYS:HG3	2.06	0.56
1:K:396:GLU:OE1	1:K:396:GLU:N	2.30	0.56
1:K:416:GLU:OE1	1:K:416:GLU:N	2.39	0.56
1:N:287:PHE:HB2	1:N:613:LEU:O	2.06	0.56
1:O:227:ASN:O	1:O:229:HIS:ND1	2.39	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:O:246:THR:HB	1:O:369:VAL:HG22	1.87	0.56
1:Q:227:ASN:O	1:Q:229:HIS:ND1	2.39	0.56
1:S:294:ARG:NH2	1:T:689:GLU:OE2	2.38	0.56
1:V:396:GLU:OE1	1:V:396:GLU:N	2.30	0.56
1:W:287:PHE:HB2	1:W:613:LEU:O	2.06	0.56
1:a:294:ARG:NH2	1:3:689:GLU:OE2	2.39	0.56
1:b:505:ALA:O	1:b:507:LYS:HG3	2.06	0.56
1:e:227:ASN:O	1:e:229:HIS:ND1	2.39	0.56
1:f:227:ASN:O	1:f:229:HIS:ND1	2.39	0.56
1:j:227:ASN:O	1:j:229:HIS:ND1	2.39	0.56
1:j:416:GLU:OE1	1:j:416:GLU:N	2.38	0.56
1:n:246:THR:HB	1:n:369:VAL:HG22	1.87	0.56
1:o:287:PHE:HB2	1:o:613:LEU:O	2.06	0.56
1:o:416:GLU:N	1:o:416:GLU:OE1	2.38	0.56
1:q:287:PHE:HB2	1:q:613:LEU:O	2.06	0.56
1:t:496:ASN:HA	1:v:586:GLY:HA2	1.88	0.56
1:u:505:ALA:O	1:u:507:LYS:HG3	2.06	0.56
1:u:586:GLY:HA2	1:v:496:ASN:HA	1.88	0.56
1:w:227:ASN:O	1:w:229:HIS:ND1	2.39	0.56
1:w:624:THR:O	1:w:627:HIS:NE2	2.38	0.56
1:x:514:ASP:N	1:x:514:ASP:OD1	2.37	0.56
1:y:505:ALA:O	1:y:507:LYS:HG3	2.06	0.56
1:z:624:THR:O	1:z:627:HIS:NE2	2.38	0.56
1:1:287:PHE:HB2	1:1:613:LEU:O	2.06	0.56
1:3:246:THR:HB	1:3:369:VAL:HG22	1.87	0.56
1:4:246:THR:HB	1:4:369:VAL:HG22	1.87	0.56
1:4:287:PHE:HB2	1:4:613:LEU:O	2.06	0.56
1:4:416:GLU:N	1:4:416:GLU:OE1	2.39	0.56
1:7:514:ASP:N	1:7:514:ASP:OD1	2.37	0.56
1:A:287:PHE:HB2	1:A:613:LEU:O	2.06	0.56
1:A:496:ASN:HA	1:I:586:GLY:HA2	1.88	0.56
1:D:396:GLU:OE1	1:D:396:GLU:N	2.30	0.56
1:I:227:ASN:O	1:I:229:HIS:ND1	2.39	0.56
1:L:227:ASN:O	1:L:229:HIS:ND1	2.39	0.56
1:N:416:GLU:OE1	1:N:416:GLU:N	2.38	0.56
1:Q:500:TYR:O	1:Q:501:SER:OG	2.23	0.56
1:R:505:ALA:O	1:R:507:LYS:HG3	2.06	0.56
1:S:505:ALA:O	1:S:507:LYS:HG3	2.06	0.56
1:T:287:PHE:HB2	1:T:613:LEU:O	2.06	0.56
1:V:505:ALA:O	1:V:507:LYS:HG3	2.06	0.56
1:V:514:ASP:OD1	1:V:514:ASP:N	2.37	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:W:294:ARG:NH2	1:X:689:GLU:OE2	2.38	0.56
1:a:287:PHE:HB2	1:a:613:LEU:O	2.06	0.56
1:a:416:GLU:OE1	1:a:416:GLU:N	2.39	0.56
1:a:500:TYR:O	1:a:501:SER:OG	2.24	0.56
1:b:294:ARG:NH2	1:c:689:GLU:OE2	2.38	0.56
1:f:287:PHE:HB2	1:f:613:LEU:O	2.06	0.56
1:g:287:PHE:HB2	1:g:613:LEU:O	2.06	0.56
1:o:227:ASN:O	1:o:229:HIS:ND1	2.39	0.56
1:p:287:PHE:HB2	1:p:613:LEU:O	2.06	0.56
1:q:294:ARG:NH2	1:x:689:GLU:OE2	2.38	0.56
1:r:453:GLY:N	1:r:457:GLN:O	2.34	0.56
1:s:483:TYR:HH	1:s:506:THR:HG1	1.49	0.56
1:t:505:ALA:O	1:t:507:LYS:HG3	2.06	0.56
1:w:514:ASP:OD1	1:w:514:ASP:N	2.37	0.56
1:1:416:GLU:N	1:1:416:GLU:OE1	2.38	0.56
1:3:227:ASN:O	1:3:229:HIS:ND1	2.39	0.56
1:C:227:ASN:O	1:C:229:HIS:ND1	2.39	0.56
1:I:287:PHE:HB2	1:I:613:LEU:O	2.06	0.56
1:N:227:ASN:O	1:N:229:HIS:ND1	2.39	0.56
1:S:396:GLU:OE1	1:S:396:GLU:N	2.30	0.56
1:S:586:GLY:HA2	1:U:496:ASN:HA	1.88	0.56
1:T:416:GLU:N	1:T:416:GLU:OE1	2.38	0.56
1:W:246:THR:HB	1:W:369:VAL:HG22	1.87	0.56
1:W:416:GLU:N	1:W:416:GLU:OE1	2.38	0.56
1:W:500:TYR:O	1:W:501:SER:OG	2.23	0.56
1:W:505:ALA:O	1:W:507:LYS:HG3	2.06	0.56
1:X:485:GLN:HE22	1:X:537:SER:HG	1.50	0.56
1:X:505:ALA:O	1:X:507:LYS:HG3	2.06	0.56
1:a:227:ASN:O	1:a:229:HIS:ND1	2.39	0.56
1:a:589:GLN:HA	1:8:496:ASN:HD21	1.71	0.56
1:c:227:ASN:O	1:c:229:HIS:ND1	2.39	0.56
1:e:514:ASP:OD1	1:e:514:ASP:N	2.37	0.56
1:f:416:GLU:OE1	1:f:416:GLU:N	2.39	0.56
1:g:294:ARG:NH2	1:z:689:GLU:OE2	2.38	0.56
1:i:287:PHE:HB2	1:i:613:LEU:O	2.06	0.56
1:k:624:THR:O	1:k:627:HIS:NE2	2.38	0.56
1:n:287:PHE:HB2	1:n:613:LEU:O	2.06	0.56
1:q:416:GLU:OE1	1:q:416:GLU:N	2.39	0.56
1:q:505:ALA:O	1:q:507:LYS:HG3	2.06	0.56
1:s:505:ALA:O	1:s:507:LYS:HG3	2.06	0.56
1:z:525:SER:OG	1:z:561:ASP:OD1	2.16	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1:576:TYR:HB3	1:1:595:VAL:HG13	1.86	0.56
1:4:227:ASN:O	1:4:229:HIS:ND1	2.39	0.56
1:6:614:GLN:CD	1:6:614:GLN:H	2.13	0.56
1:B:505:ALA:O	1:B:507:LYS:HG3	2.06	0.55
1:B:586:GLY:HA2	1:J:496:ASN:HA	1.88	0.55
1:C:505:ALA:O	1:C:507:LYS:HG3	2.06	0.55
1:D:294:ARG:NH2	1:M:689:GLU:OE2	2.39	0.55
1:D:505:ALA:O	1:D:507:LYS:HG3	2.06	0.55
1:F:614:GLN:CD	1:F:614:GLN:H	2.13	0.55
1:G:287:PHE:HB2	1:G:613:LEU:O	2.06	0.55
1:H:483:TYR:HH	1:H:506:THR:HG1	1.49	0.55
1:K:227:ASN:O	1:K:229:HIS:ND1	2.39	0.55
1:K:505:ALA:O	1:K:507:LYS:HG3	2.06	0.55
1:L:585:ARG:H	1:L:588:ARG:HB3	1.70	0.55
1:N:294:ARG:NH2	1:O:689:GLU:OE2	2.39	0.55
1:O:287:PHE:HB2	1:O:613:LEU:O	2.06	0.55
1:O:585:ARG:H	1:O:588:ARG:HB3	1.70	0.55
1:T:576:TYR:HB3	1:T:595:VAL:HG13	1.86	0.55
1:V:614:GLN:CD	1:V:614:GLN:H	2.13	0.55
1:X:416:GLU:OE1	1:X:416:GLU:N	2.38	0.55
1:c:396:GLU:OE1	1:c:396:GLU:N	2.30	0.55
1:f:246:THR:HB	1:f:369:VAL:HG22	1.87	0.55
1:f:505:ALA:O	1:f:507:LYS:HG3	2.06	0.55
1:h:624:THR:O	1:h:627:HIS:NE2	2.38	0.55
1:j:246:THR:HB	1:j:369:VAL:HG22	1.87	0.55
1:j:287:PHE:HB2	1:j:613:LEU:O	2.06	0.55
1:j:505:ALA:O	1:j:507:LYS:HG3	2.06	0.55
1:m:287:PHE:HB2	1:m:613:LEU:O	2.06	0.55
1:n:227:ASN:O	1:n:229:HIS:ND1	2.39	0.55
1:t:514:ASP:OD1	1:t:514:ASP:N	2.37	0.55
1:x:505:ALA:O	1:x:507:LYS:HG3	2.06	0.55
1:3:585:ARG:H	1:3:588:ARG:HB3	1.70	0.55
1:D:227:ASN:O	1:D:229:HIS:ND1	2.39	0.55
1:E:514:ASP:OD1	1:E:514:ASP:N	2.37	0.55
1:K:496:ASN:HA	1:8:586:GLY:HA2	1.87	0.55
1:L:505:ALA:O	1:L:507:LYS:HG3	2.06	0.55
1:R:514:ASP:N	1:R:514:ASP:OD1	2.37	0.55
1:Y:453:GLY:N	1:Y:457:GLN:O	2.34	0.55
1:Y:505:ALA:O	1:Y:507:LYS:HG3	2.06	0.55
1:Z:287:PHE:HB2	1:Z:613:LEU:O	2.06	0.55
1:Z:624:THR:O	1:Z:627:HIS:NE2	2.38	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:d:287:PHE:HB2	1:d:613:LEU:O	2.06	0.55
1:g:485:GLN:HE22	1:g:537:SER:HG	1.53	0.55
1:m:624:THR:O	1:m:627:HIS:NE2	2.38	0.55
1:o:505:ALA:O	1:o:507:LYS:HG3	2.06	0.55
1:q:246:THR:HB	1:q:369:VAL:HG22	1.87	0.55
1:x:416:GLU:OE1	1:x:416:GLU:N	2.39	0.55
1:z:505:ALA:O	1:z:507:LYS:HG3	2.06	0.55
1:1:589:GLN:HA	1:2:496:ASN:HD21	1.71	0.55
1:2:287:PHE:HB2	1:2:613:LEU:O	2.06	0.55
1:E:689:GLU:OE2	1:P:294:ARG:NH2	2.39	0.55
1:K:585:ARG:H	1:K:588:ARG:HB3	1.70	0.55
1:M:500:TYR:O	1:M:501:SER:OG	2.24	0.55
1:c:586:GLY:HA2	1:o:496:ASN:HA	1.88	0.55
1:l:505:ALA:O	1:l:507:LYS:HG3	2.06	0.55
1:s:416:GLU:OE1	1:s:416:GLU:N	2.38	0.55
1:3:287:PHE:HB2	1:3:613:LEU:O	2.06	0.55
1:5:614:GLN:CD	1:5:614:GLN:H	2.13	0.55
1:7:485:GLN:HE22	1:7:537:SER:HG	1.48	0.55
1:A:505:ALA:O	1:A:507:LYS:HG3	2.06	0.55
1:E:287:PHE:HB2	1:E:613:LEU:O	2.06	0.55
1:G:586:GLY:HA2	1:I:496:ASN:HA	1.88	0.55
1:H:416:GLU:OE1	1:H:416:GLU:N	2.39	0.55
1:I:396:GLU:OE1	1:I:396:GLU:N	2.30	0.55
1:J:500:TYR:O	1:J:501:SER:OG	2.23	0.55
1:L:624:THR:O	1:L:627:HIS:NE2	2.38	0.55
1:O:505:ALA:O	1:O:507:LYS:HG3	2.06	0.55
1:Q:614:GLN:CD	1:Q:614:GLN:H	2.13	0.55
1:U:505:ALA:O	1:U:507:LYS:HG3	2.06	0.55
1:V:500:TYR:O	1:V:501:SER:OG	2.24	0.55
1:W:589:GLN:HA	1:Y:496:ASN:HD21	1.72	0.55
1:h:287:PHE:HB2	1:h:613:LEU:O	2.06	0.55
1:i:485:GLN:HE22	1:i:537:SER:HG	1.54	0.55
1:l:500:TYR:O	1:l:501:SER:OG	2.23	0.55
1:q:589:GLN:HA	1:r:496:ASN:HD21	1.72	0.55
1:r:505:ALA:O	1:r:507:LYS:HG3	2.06	0.55
1:s:227:ASN:O	1:s:229:HIS:ND1	2.39	0.55
1:x:485:GLN:HE22	1:x:537:SER:HG	1.50	0.55
1:z:425:ALA:HB3	1:1:389:ARG:HH22	1.71	0.55
1:2:227:ASN:O	1:2:229:HIS:ND1	2.39	0.55
1:3:505:ALA:O	1:3:507:LYS:HG3	2.06	0.55
1:7:287:PHE:HB2	1:7:613:LEU:O	2.06	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:7:699:GLN:HB2	1:8:701:THR:OG1	2.06	0.55
1:B:227:ASN:O	1:B:229:HIS:ND1	2.39	0.55
1:D:485:GLN:HE22	1:D:537:SER:HG	1.52	0.55
1:R:227:ASN:O	1:R:229:HIS:ND1	2.39	0.55
1:S:304:TRP:HE1	1:S:690:ASN:H	1.55	0.55
1:a:699:GLN:HB2	1:3:701:THR:OG1	2.07	0.55
1:i:496:ASN:HD21	1:k:589:GLN:HA	1.72	0.55
1:k:287:PHE:HB2	1:k:613:LEU:O	2.06	0.55
1:l:525:SER:OG	1:l:561:ASP:OD1	2.16	0.55
1:n:624:THR:O	1:n:627:HIS:NE2	2.38	0.55
1:r:614:GLN:H	1:r:614:GLN:CD	2.13	0.55
1:t:294:ARG:NH2	1:5:689:GLU:OE2	2.39	0.55
1:u:304:TRP:HE1	1:u:690:ASN:H	1.55	0.55
1:y:614:GLN:CD	1:y:614:GLN:H	2.13	0.55
1:2:585:ARG:H	1:2:588:ARG:HB3	1.70	0.55
1:4:624:THR:O	1:4:627:HIS:NE2	2.38	0.55
1:C:624:THR:O	1:C:627:HIS:NE2	2.38	0.55
1:D:585:ARG:H	1:D:588:ARG:HB3	1.70	0.55
1:E:505:ALA:O	1:E:507:LYS:HG3	2.06	0.55
1:H:227:ASN:O	1:H:229:HIS:ND1	2.39	0.55
1:I:500:TYR:O	1:I:501:SER:OG	2.24	0.55
1:T:496:ASN:HA	1:l:586:GLY:HA2	1.88	0.55
1:b:227:ASN:O	1:b:229:HIS:ND1	2.39	0.55
1:c:496:ASN:HA	1:p:586:GLY:HA2	1.89	0.55
1:d:227:ASN:O	1:d:229:HIS:ND1	2.39	0.55
1:d:304:TRP:HE1	1:d:690:ASN:H	1.55	0.55
1:d:585:ARG:H	1:d:588:ARG:HB3	1.70	0.55
1:e:294:ARG:NH2	1:f:689:GLU:OE2	2.40	0.55
1:e:505:ALA:O	1:e:507:LYS:HG3	2.06	0.55
1:i:586:GLY:HA2	1:j:496:ASN:HA	1.89	0.55
1:q:304:TRP:HE1	1:q:690:ASN:H	1.55	0.55
1:v:505:ALA:O	1:v:507:LYS:HG3	2.06	0.55
1:w:505:ALA:O	1:w:507:LYS:HG3	2.06	0.55
1:z:500:TYR:O	1:z:501:SER:OG	2.24	0.55
1:5:227:ASN:O	1:5:229:HIS:ND1	2.39	0.55
1:6:287:PHE:HB2	1:6:613:LEU:O	2.06	0.55
1:E:496:ASN:HA	1:F:586:GLY:HA2	1.88	0.55
1:F:287:PHE:HB2	1:F:613:LEU:O	2.06	0.55
1:G:294:ARG:NH2	1:H:689:GLU:OE2	2.38	0.55
1:M:227:ASN:O	1:M:229:HIS:ND1	2.39	0.55
1:O:304:TRP:HE1	1:O:690:ASN:H	1.55	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Q:304:TRP:HE1	1:Q:690:ASN:H	1.55	0.55
1:Y:227:ASN:O	1:Y:229:HIS:ND1	2.39	0.55
1:Y:614:GLN:CD	1:Y:614:GLN:H	2.13	0.55
1:q:227:ASN:O	1:q:229:HIS:ND1	2.39	0.55
1:r:227:ASN:O	1:r:229:HIS:ND1	2.39	0.55
1:r:287:PHE:HB2	1:r:613:LEU:O	2.06	0.55
1:t:227:ASN:O	1:t:229:HIS:ND1	2.39	0.55
1:z:496:ASN:HA	1:2:586:GLY:HA2	1.88	0.55
1:2:304:TRP:HE1	1:2:690:ASN:H	1.55	0.55
1:5:304:TRP:HE1	1:5:690:ASN:H	1.55	0.55
1:C:416:GLU:OE1	1:C:416:GLU:N	2.38	0.55
1:G:505:ALA:O	1:G:507:LYS:HG3	2.06	0.55
1:L:416:GLU:N	1:L:416:GLU:OE1	2.39	0.55
1:Q:505:ALA:O	1:Q:507:LYS:HG3	2.06	0.55
1:R:496:ASN:HA	1:U:586:GLY:HA2	1.89	0.55
1:W:227:ASN:O	1:W:229:HIS:ND1	2.39	0.55
1:W:304:TRP:HE1	1:W:690:ASN:H	1.55	0.55
1:Z:496:ASN:HA	1:3:586:GLY:HA2	1.89	0.55
1:e:500:TYR:O	1:e:501:SER:OG	2.24	0.55
1:f:496:ASN:HD21	1:g:589:GLN:HA	1.71	0.55
1:g:505:ALA:O	1:g:507:LYS:HG3	2.06	0.55
1:l:287:PHE:HB2	1:l:613:LEU:O	2.06	0.55
1:p:505:ALA:O	1:p:507:LYS:HG3	2.06	0.55
1:u:624:THR:O	1:u:627:HIS:NE2	2.38	0.55
1:w:500:TYR:O	1:w:501:SER:OG	2.24	0.55
1:z:287:PHE:HB2	1:z:613:LEU:O	2.06	0.55
1:2:485:GLN:HE22	1:2:537:SER:HG	1.53	0.55
1:7:505:ALA:O	1:7:507:LYS:HG3	2.06	0.55
1:8:227:ASN:O	1:8:229:HIS:ND1	2.39	0.55
1:I:505:ALA:O	1:I:507:LYS:HG3	2.06	0.55
1:N:699:GLN:HB2	1:O:701:THR:OG1	2.07	0.55
1:P:227:ASN:O	1:P:229:HIS:ND1	2.39	0.55
1:S:624:THR:O	1:S:627:HIS:NE2	2.38	0.55
1:Y:287:PHE:HB2	1:Y:613:LEU:O	2.06	0.55
1:a:598:GLN:HE22	1:8:597:THR:HG21	1.72	0.55
1:c:505:ALA:O	1:c:507:LYS:HG3	2.06	0.55
1:d:589:GLN:HA	1:l:496:ASN:HD21	1.71	0.55
1:f:589:GLN:HA	1:h:496:ASN:HD21	1.72	0.55
1:i:496:ASN:HA	1:k:586:GLY:HA2	1.89	0.55
1:p:294:ARG:NH2	1:s:689:GLU:OE2	2.38	0.55
1:z:389:ARG:HH22	1:2:425:ALA:HB3	1.71	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:3:304:TRP:HE1	1:3:690:ASN:H	1.55	0.55
1:4:505:ALA:O	1:4:507:LYS:HG3	2.06	0.55
1:5:505:ALA:O	1:5:507:LYS:HG3	2.06	0.55
1:5:525:SER:OG	1:5:561:ASP:OD1	2.16	0.55
1:A:624:THR:O	1:A:627:HIS:NE2	2.38	0.55
1:C:304:TRP:HE1	1:C:690:ASN:H	1.55	0.55
1:D:304:TRP:HE1	1:D:690:ASN:H	1.55	0.55
1:J:227:ASN:O	1:J:229:HIS:ND1	2.39	0.55
1:K:304:TRP:HE1	1:K:690:ASN:H	1.55	0.55
1:O:589:GLN:HA	1:m:496:ASN:HD21	1.72	0.55
1:T:589:GLN:HA	1:d:496:ASN:HD21	1.72	0.55
1:U:304:TRP:HE1	1:U:690:ASN:H	1.55	0.55
1:i:505:ALA:O	1:i:507:LYS:HG3	2.06	0.55
1:j:624:THR:O	1:j:627:HIS:NE2	2.38	0.55
1:n:505:ALA:O	1:n:507:LYS:HG3	2.06	0.55
1:v:304:TRP:HE1	1:v:690:ASN:H	1.55	0.55
1:1:500:TYR:O	1:1:501:SER:OG	2.23	0.55
1:6:586:GLY:HA2	1:7:496:ASN:HA	1.89	0.55
1:7:396:GLU:OE1	1:7:396:GLU:N	2.30	0.55
1:C:496:ASN:HD21	1:M:589:GLN:HA	1.72	0.54
1:J:589:GLN:HA	1:L:496:ASN:HD21	1.72	0.54
1:L:304:TRP:HE1	1:L:690:ASN:H	1.55	0.54
1:Q:525:SER:OG	1:Q:561:ASP:OD1	2.16	0.54
1:T:500:TYR:O	1:T:501:SER:OG	2.24	0.54
1:T:505:ALA:O	1:T:507:LYS:HG3	2.06	0.54
1:Z:586:GLY:HA2	1:4:496:ASN:HA	1.89	0.54
1:m:227:ASN:O	1:m:229:HIS:ND1	2.39	0.54
1:m:505:ALA:O	1:m:507:LYS:HG3	2.06	0.54
1:m:586:GLY:HA2	1:n:496:ASN:HA	1.89	0.54
1:q:496:ASN:HA	1:s:586:GLY:HA2	1.88	0.54
1:s:287:PHE:HB2	1:s:613:LEU:O	2.06	0.54
1:t:304:TRP:HE1	1:t:690:ASN:H	1.55	0.54
1:u:294:ARG:NH2	1:1:689:GLU:OE2	2.40	0.54
1:5:496:ASN:HD21	1:7:589:GLN:HA	1.71	0.54
1:E:396:GLU:OE1	1:E:396:GLU:N	2.30	0.54
1:E:586:GLY:HA2	1:Q:496:ASN:HA	1.89	0.54
1:H:287:PHE:HB2	1:H:613:LEU:O	2.06	0.54
1:H:586:GLY:HA2	1:W:496:ASN:HA	1.89	0.54
1:K:589:GLN:HA	1:a:496:ASN:HD21	1.72	0.54
1:O:586:GLY:HA2	1:m:496:ASN:HA	1.89	0.54
1:P:505:ALA:O	1:P:507:LYS:HG3	2.06	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Q:485:GLN:HE22	1:Q:537:SER:HG	1.51	0.54
1:R:304:TRP:HE1	1:R:690:ASN:H	1.55	0.54
1:W:624:THR:O	1:W:627:HIS:NE2	2.38	0.54
1:Y:294:ARG:NH2	1:Z:689:GLU:OE2	2.39	0.54
1:Z:227:ASN:O	1:Z:229:HIS:ND1	2.39	0.54
1:Z:496:ASN:HD21	1:3:589:GLN:HA	1.72	0.54
1:Z:505:ALA:O	1:Z:507:LYS:HG3	2.06	0.54
1:a:614:GLN:CD	1:a:614:GLN:H	2.13	0.54
1:f:624:THR:O	1:f:627:HIS:NE2	2.38	0.54
1:o:624:THR:O	1:o:627:HIS:NE2	2.38	0.54
1:q:624:THR:O	1:q:627:HIS:NE2	2.38	0.54
1:t:483:TYR:HH	1:t:506:THR:HG1	1.53	0.54
1:u:514:ASP:OD1	1:u:514:ASP:N	2.37	0.54
1:x:304:TRP:HE1	1:x:690:ASN:H	1.55	0.54
1:3:496:ASN:HD21	1:4:589:GLN:HA	1.72	0.54
1:5:589:GLN:HA	1:6:496:ASN:HD21	1.72	0.54
1:8:505:ALA:O	1:8:507:LYS:HG3	2.06	0.54
1:C:287:PHE:HB2	1:C:613:LEU:O	2.06	0.54
1:E:294:ARG:NH2	1:P:689:GLU:OE2	2.38	0.54
1:F:496:ASN:HD21	1:Q:589:GLN:HA	1.72	0.54
1:G:304:TRP:HE1	1:G:690:ASN:H	1.55	0.54
1:L:287:PHE:HB2	1:L:613:LEU:O	2.06	0.54
1:N:505:ALA:O	1:N:507:LYS:HG3	2.06	0.54
1:N:624:THR:O	1:N:627:HIS:NE2	2.38	0.54
1:O:416:GLU:OE1	1:O:416:GLU:N	2.39	0.54
1:Q:689:GLU:OE2	1:R:294:ARG:NH2	2.39	0.54
1:T:528:ASP:HA	1:T:566:ARG:HH22	1.73	0.54
1:X:528:ASP:HA	1:X:566:ARG:HH22	1.73	0.54
1:a:304:TRP:HE1	1:a:690:ASN:H	1.55	0.54
1:d:246:THR:HB	1:d:369:VAL:HG22	1.87	0.54
1:e:699:GLN:HB2	1:f:701:THR:OG1	2.07	0.54
1:m:689:GLU:OE2	1:r:294:ARG:NH2	2.39	0.54
1:o:589:GLN:HA	1:p:496:ASN:HD21	1.72	0.54
1:p:304:TRP:HE1	1:p:690:ASN:H	1.55	0.54
1:t:528:ASP:HA	1:t:566:ARG:HH22	1.73	0.54
1:t:689:GLU:OE2	1:5:294:ARG:NH2	2.39	0.54
1:1:505:ALA:O	1:1:507:LYS:HG3	2.06	0.54
1:3:416:GLU:OE1	1:3:416:GLU:N	2.38	0.54
1:5:485:GLN:HE22	1:5:537:SER:HG	1.51	0.54
1:7:294:ARG:NH2	1:8:689:GLU:OE2	2.40	0.54
1:C:689:GLU:OE2	1:L:294:ARG:NH2	2.39	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:396:GLU:OE1	1:G:396:GLU:N	2.30	0.54
1:H:304:TRP:HE1	1:H:690:ASN:H	1.55	0.54
1:H:496:ASN:HA	1:Y:586:GLY:HA2	1.89	0.54
1:J:528:ASP:HA	1:J:566:ARG:HH22	1.73	0.54
1:N:304:TRP:HE1	1:N:690:ASN:H	1.55	0.54
1:N:586:GLY:HA2	1:P:496:ASN:HA	1.89	0.54
1:O:485:GLN:HE22	1:O:537:SER:HG	1.53	0.54
1:O:496:ASN:HD21	1:n:589:GLN:HA	1.72	0.54
1:Q:294:ARG:NH2	1:R:689:GLU:OE2	2.39	0.54
1:R:528:ASP:HA	1:R:566:ARG:HH22	1.73	0.54
1:S:514:ASP:OD1	1:S:514:ASP:N	2.37	0.54
1:U:227:ASN:O	1:U:229:HIS:ND1	2.39	0.54
1:X:304:TRP:HE1	1:X:690:ASN:H	1.55	0.54
1:d:528:ASP:HA	1:d:566:ARG:HH22	1.73	0.54
1:g:496:ASN:HA	1:h:586:GLY:HA2	1.89	0.54
1:n:528:ASP:HA	1:n:566:ARG:HH22	1.73	0.54
1:t:496:ASN:HD21	1:v:589:GLN:HA	1.71	0.54
1:u:699:GLN:HB2	1:l:701:THR:OG1	2.06	0.54
1:v:227:ASN:O	1:v:229:HIS:ND1	2.39	0.54
1:x:528:ASP:HA	1:x:566:ARG:HH22	1.73	0.54
1:1:528:ASP:HA	1:1:566:ARG:HH22	1.73	0.54
1:2:246:THR:HB	1:2:369:VAL:HG22	1.87	0.54
1:2:528:ASP:HA	1:2:566:ARG:HH22	1.73	0.54
1:4:528:ASP:HA	1:4:566:ARG:HH22	1.73	0.54
1:6:589:GLN:HA	1:7:496:ASN:HD21	1.73	0.54
1:A:589:GLN:HA	1:G:496:ASN:HD21	1.73	0.54
1:B:514:ASP:N	1:B:514:ASP:OD1	2.37	0.54
1:J:624:THR:O	1:J:627:HIS:NE2	2.38	0.54
1:M:528:ASP:HA	1:M:566:ARG:HH22	1.73	0.54
1:N:614:GLN:CD	1:N:614:GLN:H	2.13	0.54
1:T:425:ALA:HB3	1:d:389:ARG:HH22	1.73	0.54
1:b:624:THR:O	1:b:627:HIS:NE2	2.38	0.54
1:c:589:GLN:HA	1:o:496:ASN:HD21	1.73	0.54
1:j:589:GLN:HA	1:k:496:ASN:HD21	1.72	0.54
1:s:500:TYR:O	1:s:501:SER:OG	2.23	0.54
1:3:500:TYR:O	1:3:501:SER:OG	2.23	0.54
1:5:287:PHE:HB2	1:5:613:LEU:O	2.06	0.54
1:A:586:GLY:HA2	1:G:496:ASN:HA	1.88	0.54
1:B:304:TRP:HE1	1:B:690:ASN:H	1.55	0.54
1:B:624:THR:O	1:B:627:HIS:NE2	2.38	0.54
1:F:304:TRP:HE1	1:F:690:ASN:H	1.55	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:589:GLN:HA	1:W:496:ASN:HD21	1.72	0.54
1:M:624:THR:O	1:M:627:HIS:NE2	2.38	0.54
1:Q:287:PHE:HB2	1:Q:613:LEU:O	2.06	0.54
1:Z:304:TRP:HE1	1:Z:690:ASN:H	1.55	0.54
1:a:505:ALA:O	1:a:507:LYS:HG3	2.06	0.54
1:b:514:ASP:N	1:b:514:ASP:OD1	2.37	0.54
1:c:389:ARG:HH22	1:p:425:ALA:HB3	1.73	0.54
1:c:528:ASP:HA	1:c:566:ARG:HH22	1.73	0.54
1:d:701:THR:OG1	1:n:699:GLN:HB2	2.08	0.54
1:g:514:ASP:OD1	1:g:514:ASP:N	2.37	0.54
1:h:528:ASP:HA	1:h:566:ARG:HH22	1.73	0.54
1:i:389:ARG:HH22	1:k:425:ALA:HB3	1.73	0.54
1:m:304:TRP:HE1	1:m:690:ASN:H	1.55	0.54
1:o:396:GLU:OE1	1:o:396:GLU:N	2.30	0.54
1:o:586:GLY:HA2	1:p:496:ASN:HA	1.88	0.54
1:s:304:TRP:HE1	1:s:690:ASN:H	1.55	0.54
1:u:425:ALA:HB3	1:v:389:ARG:HH22	1.72	0.54
1:4:304:TRP:HE1	1:4:690:ASN:H	1.55	0.54
1:6:304:TRP:HE1	1:6:690:ASN:H	1.55	0.54
1:A:396:GLU:OE1	1:A:396:GLU:N	2.30	0.54
1:A:496:ASN:HD21	1:I:589:GLN:HA	1.73	0.54
1:A:525:SER:OG	1:A:561:ASP:OD1	2.16	0.54
1:D:496:ASN:HA	1:P:586:GLY:HA2	1.89	0.54
1:H:500:TYR:O	1:H:501:SER:OG	2.23	0.54
1:J:505:ALA:O	1:J:507:LYS:HG3	2.06	0.54
1:O:425:ALA:HB3	1:m:389:ARG:HH22	1.73	0.54
1:O:496:ASN:HA	1:n:586:GLY:HA2	1.89	0.54
1:S:589:GLN:HA	1:U:496:ASN:HD21	1.73	0.54
1:V:485:GLN:HE22	1:V:537:SER:HG	1.55	0.54
1:a:528:ASP:HA	1:a:566:ARG:HH22	1.73	0.54
1:b:304:TRP:HE1	1:b:690:ASN:H	1.55	0.54
1:d:586:GLY:HA2	1:l:496:ASN:HA	1.89	0.54
1:g:389:ARG:HH22	1:h:425:ALA:HB3	1.73	0.54
1:h:525:SER:OG	1:h:561:ASP:OD1	2.16	0.54
1:k:528:ASP:HA	1:k:566:ARG:HH22	1.73	0.54
1:l:304:TRP:HE1	1:l:690:ASN:H	1.55	0.54
1:m:525:SER:OG	1:m:561:ASP:OD1	2.16	0.54
1:m:528:ASP:HA	1:m:566:ARG:HH22	1.73	0.54
1:t:586:GLY:HA2	1:u:496:ASN:HA	1.89	0.54
1:u:589:GLN:HA	1:v:496:ASN:HD21	1.73	0.54
1:v:699:GLN:HB2	1:y:701:THR:OG1	2.08	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:x:589:GLN:HA	1:y:496:ASN:HD21	1.73	0.54
1:z:586:GLY:HA2	1:l:496:ASN:HA	1.90	0.54
1:5:528:ASP:HA	1:5:566:ARG:HH22	1.73	0.54
1:B:496:ASN:HA	1:L:586:GLY:HA2	1.89	0.54
1:D:589:GLN:HA	1:N:496:ASN:HD21	1.73	0.54
1:F:528:ASP:HA	1:F:566:ARG:HH22	1.73	0.54
1:G:425:ALA:HB3	1:I:389:ARG:HH22	1.73	0.54
1:I:528:ASP:HA	1:I:566:ARG:HH22	1.73	0.54
1:J:586:GLY:HA2	1:L:496:ASN:HA	1.89	0.54
1:M:505:ALA:O	1:M:507:LYS:HG3	2.06	0.54
1:Q:528:ASP:HA	1:Q:566:ARG:HH22	1.73	0.54
1:U:500:TYR:O	1:U:501:SER:OG	2.23	0.54
1:W:259:GLN:NE2	1:W:273:PHE:HE1	2.06	0.54
1:Z:525:SER:OG	1:Z:561:ASP:OD1	2.16	0.54
1:Z:528:ASP:HA	1:Z:566:ARG:HH22	1.73	0.54
1:c:496:ASN:HD21	1:p:589:GLN:HA	1.72	0.54
1:n:304:TRP:HE1	1:n:690:ASN:H	1.55	0.54
1:o:525:SER:OG	1:o:561:ASP:OD1	2.16	0.54
1:p:396:GLU:OE1	1:p:396:GLU:N	2.30	0.54
1:q:259:GLN:NE2	1:q:273:PHE:HE1	2.06	0.54
1:q:496:ASN:HD21	1:s:589:GLN:HA	1.73	0.54
1:r:586:GLY:HA2	1:s:496:ASN:HA	1.89	0.54
1:w:586:GLY:HA2	1:x:496:ASN:HA	1.89	0.54
1:5:389:ARG:HH22	1:7:425:ALA:HB3	1.73	0.54
1:6:528:ASP:HA	1:6:566:ARG:HH22	1.73	0.54
1:A:500:TYR:O	1:A:501:SER:OG	2.24	0.54
1:C:496:ASN:HA	1:M:586:GLY:HA2	1.89	0.54
1:E:259:GLN:NE2	1:E:273:PHE:HE1	2.06	0.54
1:E:496:ASN:HD21	1:F:589:GLN:HA	1.73	0.54
1:K:528:ASP:HA	1:K:566:ARG:HH22	1.73	0.54
1:M:259:GLN:NE2	1:M:273:PHE:HE1	2.06	0.54
1:N:528:ASP:HA	1:N:566:ARG:HH22	1.73	0.54
1:R:500:TYR:O	1:R:501:SER:OG	2.23	0.54
1:T:496:ASN:HD21	1:l:589:GLN:HA	1.73	0.54
1:V:496:ASN:HA	1:X:586:GLY:HA2	1.89	0.54
1:W:586:GLY:HA2	1:Y:496:ASN:HA	1.89	0.54
1:X:496:ASN:HA	1:e:586:GLY:HA2	1.89	0.54
1:b:699:GLN:HB2	1:c:701:THR:OG1	2.08	0.54
1:e:528:ASP:HA	1:e:566:ARG:HH22	1.73	0.54
1:g:259:GLN:NE2	1:g:273:PHE:HE1	2.06	0.54
1:i:259:GLN:NE2	1:i:273:PHE:HE1	2.06	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:i:514:ASP:OD1	1:i:514:ASP:N	2.37	0.54
1:k:505:ALA:O	1:k:507:LYS:HG3	2.06	0.54
1:q:586:GLY:HA2	1:r:496:ASN:HA	1.89	0.54
1:w:528:ASP:HA	1:w:566:ARG:HH22	1.73	0.54
1:z:304:TRP:HE1	1:z:690:ASN:H	1.55	0.54
1:2:701:THR:OG1	1:4:699:GLN:HB2	2.08	0.54
1:D:528:ASP:HA	1:D:566:ARG:HH22	1.73	0.54
1:E:528:ASP:HA	1:E:566:ARG:HH22	1.73	0.54
1:E:589:GLN:HA	1:Q:496:ASN:HD21	1.73	0.54
1:G:528:ASP:HA	1:G:566:ARG:HH22	1.73	0.54
1:G:701:THR:OG1	1:H:699:GLN:HB2	2.08	0.54
1:H:485:GLN:HE22	1:H:537:SER:HG	1.55	0.54
1:J:259:GLN:NE2	1:J:273:PHE:HE1	2.06	0.54
1:K:586:GLY:HA2	1:a:496:ASN:HA	1.90	0.54
1:Z:396:GLU:OE1	1:Z:396:GLU:N	2.30	0.54
1:e:304:TRP:HE1	1:e:690:ASN:H	1.55	0.54
1:f:496:ASN:HA	1:g:586:GLY:HA2	1.90	0.54
1:h:304:TRP:HE1	1:h:690:ASN:H	1.55	0.54
1:p:528:ASP:HA	1:p:566:ARG:HH22	1.73	0.54
1:s:485:GLN:HE22	1:s:537:SER:HG	1.55	0.54
1:t:500:TYR:O	1:t:501:SER:OG	2.24	0.54
1:y:304:TRP:HE1	1:y:690:ASN:H	1.55	0.54
1:z:528:ASP:HA	1:z:566:ARG:HH22	1.73	0.54
1:5:586:GLY:HA2	1:6:496:ASN:HA	1.89	0.54
1:7:259:GLN:NE2	1:7:273:PHE:HE1	2.06	0.54
1:C:294:ARG:NH2	1:L:689:GLU:OE2	2.39	0.53
1:C:528:ASP:HA	1:C:566:ARG:HH22	1.73	0.53
1:E:425:ALA:HB3	1:Q:389:ARG:HH22	1.73	0.53
1:F:259:GLN:NE2	1:F:273:PHE:HE1	2.06	0.53
1:F:396:GLU:OE1	1:F:396:GLU:N	2.30	0.53
1:G:589:GLN:HA	1:I:496:ASN:HD21	1.72	0.53
1:H:389:ARG:HH22	1:Y:425:ALA:HB3	1.73	0.53
1:L:500:TYR:O	1:L:501:SER:OG	2.23	0.53
1:N:259:GLN:NE2	1:N:273:PHE:HE1	2.06	0.53
1:Q:259:GLN:NE2	1:Q:273:PHE:HE1	2.06	0.53
1:R:586:GLY:HA2	1:S:496:ASN:HA	1.89	0.53
1:e:259:GLN:NE2	1:e:273:PHE:HE1	2.06	0.53
1:g:528:ASP:HA	1:g:566:ARG:HH22	1.73	0.53
1:o:425:ALA:HB3	1:p:389:ARG:HH22	1.73	0.53
1:o:500:TYR:O	1:o:501:SER:OG	2.23	0.53
1:o:699:GLN:HB2	1:6:701:THR:OG1	2.08	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:r:589:GLN:HA	1:s:496:ASN:HD21	1.72	0.53
1:w:304:TRP:HE1	1:w:690:ASN:H	1.55	0.53
1:z:496:ASN:HD21	1:2:589:GLN:HA	1.73	0.53
1:5:496:ASN:HA	1:7:586:GLY:HA2	1.90	0.53
1:6:259:GLN:NE2	1:6:273:PHE:HE1	2.06	0.53
1:6:396:GLU:OE1	1:6:396:GLU:N	2.30	0.53
1:7:528:ASP:HA	1:7:566:ARG:HH22	1.73	0.53
1:E:701:THR:OG1	1:P:699:GLN:HB2	2.09	0.53
1:F:496:ASN:HA	1:Q:586:GLY:HA2	1.89	0.53
1:H:425:ALA:HB3	1:W:389:ARG:HH22	1.73	0.53
1:H:496:ASN:HD21	1:Y:589:GLN:HA	1.73	0.53
1:J:425:ALA:HB3	1:L:389:ARG:HH22	1.73	0.53
1:O:528:ASP:HA	1:O:566:ARG:HH22	1.73	0.53
1:R:425:ALA:HB3	1:S:389:ARG:HH22	1.74	0.53
1:R:496:ASN:HD21	1:U:589:GLN:HA	1.72	0.53
1:V:389:ARG:HH22	1:X:425:ALA:HB3	1.73	0.53
1:W:425:ALA:HB3	1:Y:389:ARG:HH22	1.73	0.53
1:Z:259:GLN:NE2	1:Z:273:PHE:HE1	2.06	0.53
1:a:259:GLN:NE2	1:a:273:PHE:HE1	2.06	0.53
1:h:505:ALA:O	1:h:507:LYS:HG3	2.06	0.53
1:j:586:GLY:HA2	1:k:496:ASN:HA	1.88	0.53
1:k:525:SER:OG	1:k:561:ASP:OD1	2.16	0.53
1:l:528:ASP:HA	1:l:566:ARG:HH22	1.73	0.53
1:m:589:GLN:HA	1:n:496:ASN:HD21	1.72	0.53
1:o:259:GLN:NE2	1:o:273:PHE:HE1	2.06	0.53
1:A:259:GLN:NE2	1:A:273:PHE:HE1	2.06	0.53
1:A:425:ALA:HB3	1:G:389:ARG:HH22	1.73	0.53
1:B:701:THR:OG1	1:I:699:GLN:HB2	2.09	0.53
1:C:389:ARG:HH22	1:M:425:ALA:HB3	1.73	0.53
1:C:586:GLY:HA2	1:b:496:ASN:HA	1.90	0.53
1:D:586:GLY:HA2	1:N:496:ASN:HA	1.90	0.53
1:L:528:ASP:HA	1:L:566:ARG:HH22	1.73	0.53
1:U:259:GLN:NE2	1:U:273:PHE:HE1	2.06	0.53
1:U:528:ASP:HA	1:U:566:ARG:HH22	1.73	0.53
1:V:304:TRP:HE1	1:V:690:ASN:H	1.55	0.53
1:V:586:GLY:HA2	1:e:496:ASN:HA	1.89	0.53
1:X:259:GLN:NE2	1:X:273:PHE:HE1	2.06	0.53
1:Z:589:GLN:HA	1:4:496:ASN:HD21	1.73	0.53
1:e:345:ASP:N	1:e:345:ASP:OD1	2.42	0.53
1:i:528:ASP:HA	1:i:566:ARG:HH22	1.73	0.53
1:j:425:ALA:HB3	1:k:389:ARG:HH22	1.73	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:k:304:TRP:HE1	1:k:690:ASN:H	1.55	0.53
1:m:259:GLN:NE2	1:m:273:PHE:HE1	2.06	0.53
1:m:500:TYR:O	1:m:501:SER:OG	2.24	0.53
1:o:528:ASP:HA	1:o:566:ARG:HH22	1.73	0.53
1:p:699:GLN:HB2	1:s:701:THR:OG1	2.08	0.53
1:q:389:ARG:HH22	1:s:425:ALA:HB3	1.73	0.53
1:q:425:ALA:HB3	1:r:389:ARG:HH22	1.73	0.53
1:r:425:ALA:HB3	1:s:389:ARG:HH22	1.73	0.53
1:t:425:ALA:HB3	1:u:389:ARG:HH22	1.74	0.53
1:t:589:GLN:HA	1:u:496:ASN:HD21	1.72	0.53
1:v:259:GLN:NE2	1:v:273:PHE:HE1	2.06	0.53
1:w:345:ASP:N	1:w:345:ASP:OD1	2.42	0.53
1:2:514:ASP:OD1	1:2:514:ASP:N	2.37	0.53
1:3:396:GLU:OE1	1:3:396:GLU:N	2.30	0.53
1:3:624:THR:O	1:3:627:HIS:NE2	2.38	0.53
1:5:259:GLN:NE2	1:5:273:PHE:HE1	2.06	0.53
1:A:585:ARG:HG2	1:A:586:GLY:H	1.74	0.53
1:B:585:ARG:HG2	1:B:586:GLY:H	1.74	0.53
1:B:699:GLN:HB2	1:I:701:THR:OG1	2.09	0.53
1:K:259:GLN:NE2	1:K:273:PHE:HE1	2.06	0.53
1:N:585:ARG:HG2	1:N:586:GLY:H	1.74	0.53
1:P:259:GLN:NE2	1:P:273:PHE:HE1	2.06	0.53
1:R:589:GLN:HA	1:S:496:ASN:HD21	1.73	0.53
1:V:589:GLN:HA	1:e:496:ASN:HD21	1.73	0.53
1:X:345:ASP:OD1	1:X:345:ASP:N	2.42	0.53
1:Y:585:ARG:HG2	1:Y:586:GLY:H	1.74	0.53
1:Z:500:TYR:O	1:Z:501:SER:OG	2.23	0.53
1:f:304:TRP:HE1	1:f:690:ASN:H	1.55	0.53
1:h:585:ARG:HG2	1:h:586:GLY:H	1.74	0.53
1:j:304:TRP:HE1	1:j:690:ASN:H	1.55	0.53
1:j:701:THR:OG1	1:w:699:GLN:HB2	2.08	0.53
1:k:259:GLN:NE2	1:k:273:PHE:HE1	2.06	0.53
1:m:396:GLU:OE1	1:m:396:GLU:N	2.30	0.53
1:o:585:ARG:HG2	1:o:586:GLY:H	1.74	0.53
1:r:585:ARG:HG2	1:r:586:GLY:H	1.74	0.53
1:v:701:THR:OG1	1:y:699:GLN:HB2	2.08	0.53
1:w:259:GLN:NE2	1:w:273:PHE:HE1	2.06	0.53
1:w:589:GLN:HA	1:x:496:ASN:HD21	1.73	0.53
1:x:345:ASP:N	1:x:345:ASP:OD1	2.42	0.53
1:z:585:ARG:HG2	1:z:586:GLY:H	1.74	0.53
1:3:528:ASP:HA	1:3:566:ARG:HH22	1.73	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:528:ASP:HA	1:A:566:ARG:HH22	1.73	0.53
1:B:589:GLN:HA	1:J:496:ASN:HD21	1.73	0.53
1:C:500:TYR:O	1:C:501:SER:OG	2.24	0.53
1:F:389:ARG:HH22	1:Q:425:ALA:HB3	1.73	0.53
1:M:389:ARG:HH22	1:b:425:ALA:HB3	1.73	0.53
1:N:425:ALA:HB3	1:P:389:ARG:HH22	1.73	0.53
1:N:589:GLN:HA	1:P:496:ASN:HD21	1.74	0.53
1:O:624:THR:O	1:O:627:HIS:NE2	2.38	0.53
1:P:514:ASP:N	1:P:514:ASP:OD1	2.37	0.53
1:R:259:GLN:NE2	1:R:273:PHE:HE1	2.06	0.53
1:S:345:ASP:OD1	1:S:345:ASP:N	2.42	0.53
1:Y:259:GLN:NE2	1:Y:273:PHE:HE1	2.06	0.53
1:a:585:ARG:HG2	1:a:586:GLY:H	1.74	0.53
1:b:585:ARG:HG2	1:b:586:GLY:H	1.74	0.53
1:f:586:GLY:HA2	1:h:496:ASN:HA	1.89	0.53
1:h:259:GLN:NE2	1:h:273:PHE:HE1	2.06	0.53
1:h:699:GLN:HB2	1:k:701:THR:OG1	2.08	0.53
1:h:701:THR:OG1	1:k:699:GLN:HB2	2.08	0.53
1:k:585:ARG:HG2	1:k:586:GLY:H	1.74	0.53
1:n:483:TYR:OH	1:n:506:THR:OG1	2.27	0.53
1:p:701:THR:OG1	1:s:699:GLN:HB2	2.09	0.53
1:r:528:ASP:HA	1:r:566:ARG:HH22	1.73	0.53
1:t:259:GLN:NE2	1:t:273:PHE:HE1	2.06	0.53
1:u:585:ARG:HG2	1:u:586:GLY:H	1.74	0.53
1:v:528:ASP:HA	1:v:566:ARG:HH22	1.73	0.53
1:w:496:ASN:HA	1:y:586:GLY:HA2	1.89	0.53
1:w:496:ASN:HD21	1:y:589:GLN:HA	1.73	0.53
1:3:389:ARG:HH22	1:4:425:ALA:HB3	1.73	0.53
1:8:259:GLN:NE2	1:8:273:PHE:HE1	2.06	0.53
1:B:500:TYR:HA	1:B:503:THR:OG1	2.09	0.53
1:C:425:ALA:HB3	1:b:389:ARG:HH22	1.73	0.53
1:C:514:ASP:OD1	1:C:514:ASP:N	2.37	0.53
1:D:259:GLN:NE2	1:D:273:PHE:HE1	2.06	0.53
1:E:304:TRP:HE1	1:E:690:ASN:H	1.55	0.53
1:O:500:TYR:HA	1:O:503:THR:OG1	2.09	0.53
1:P:304:TRP:HE1	1:P:690:ASN:H	1.55	0.53
1:P:345:ASP:OD1	1:P:345:ASP:N	2.42	0.53
1:S:585:ARG:HG2	1:S:586:GLY:H	1.74	0.53
1:V:496:ASN:HD21	1:X:589:GLN:HA	1.74	0.53
1:W:396:GLU:OE1	1:W:396:GLU:N	2.30	0.53
1:Y:528:ASP:HA	1:Y:566:ARG:HH22	1.73	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:b:500:TYR:HA	1:b:503:THR:OG1	2.09	0.53
1:b:701:THR:OG1	1:c:699:GLN:HB2	2.09	0.53
1:f:259:GLN:NE2	1:f:273:PHE:HE1	2.06	0.53
1:f:389:ARG:HH22	1:g:425:ALA:HB3	1.73	0.53
1:g:304:TRP:HE1	1:g:690:ASN:H	1.55	0.53
1:g:585:ARG:HG2	1:g:586:GLY:H	1.74	0.53
1:i:425:ALA:HB3	1:j:389:ARG:HH22	1.74	0.53
1:i:701:THR:OG1	1:l:699:GLN:HB2	2.09	0.53
1:j:259:GLN:NE2	1:j:273:PHE:HE1	2.06	0.53
1:r:259:GLN:NE2	1:r:273:PHE:HE1	2.06	0.53
1:t:345:ASP:OD1	1:t:345:ASP:N	2.42	0.53
1:u:345:ASP:N	1:u:345:ASP:OD1	2.42	0.53
1:x:259:GLN:NE2	1:x:273:PHE:HE1	2.06	0.53
1:3:496:ASN:HA	1:4:586:GLY:HA2	1.89	0.53
1:7:304:TRP:HE1	1:7:690:ASN:H	1.55	0.53
1:J:304:TRP:HE1	1:J:690:ASN:H	1.55	0.53
1:O:396:GLU:OE1	1:O:396:GLU:N	2.30	0.53
1:R:345:ASP:N	1:R:345:ASP:OD1	2.42	0.53
1:U:701:THR:OG1	1:V:699:GLN:HB2	2.08	0.53
1:V:528:ASP:HA	1:V:566:ARG:HH22	1.73	0.53
1:c:304:TRP:HE1	1:c:690:ASN:H	1.55	0.53
1:d:514:ASP:OD1	1:d:514:ASP:N	2.37	0.53
1:i:585:ARG:HG2	1:i:586:GLY:H	1.74	0.53
1:i:589:GLN:HA	1:j:496:ASN:HD21	1.73	0.53
1:i:699:GLN:HB2	1:l:701:THR:OG1	2.08	0.53
1:l:259:GLN:NE2	1:l:273:PHE:HE1	2.06	0.53
1:l:585:ARG:HG2	1:l:586:GLY:H	1.74	0.53
1:t:389:ARG:HH22	1:v:425:ALA:HB3	1.72	0.53
1:u:500:TYR:HA	1:u:503:THR:OG1	2.09	0.53
1:u:528:ASP:HA	1:u:566:ARG:HH22	1.73	0.53
1:1:304:TRP:HE1	1:1:690:ASN:H	1.55	0.53
1:2:699:GLN:HB2	1:4:701:THR:OG1	2.09	0.53
1:3:500:TYR:HA	1:3:503:THR:OG1	2.09	0.53
1:8:345:ASP:OD1	1:8:345:ASP:N	2.42	0.53
1:A:701:THR:OG1	1:F:699:GLN:HB2	2.08	0.53
1:B:259:GLN:NE2	1:B:273:PHE:HE1	2.06	0.53
1:B:425:ALA:HB3	1:J:389:ARG:HH22	1.74	0.53
1:B:496:ASN:HD21	1:L:589:GLN:HA	1.72	0.53
1:C:589:GLN:HA	1:b:496:ASN:HD21	1.72	0.53
1:E:500:TYR:HA	1:E:503:THR:OG1	2.09	0.53
1:M:345:ASP:N	1:M:345:ASP:OD1	2.42	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:496:ASN:HD21	1:b:589:GLN:HA	1.73	0.53
1:S:500:TYR:HA	1:S:503:THR:OG1	2.09	0.53
1:T:304:TRP:HE1	1:T:690:ASN:H	1.55	0.53
1:T:586:GLY:HA2	1:d:496:ASN:HA	1.89	0.53
1:W:500:TYR:HA	1:W:503:THR:OG1	2.09	0.53
1:Z:585:ARG:HG2	1:Z:586:GLY:H	1.74	0.53
1:b:259:GLN:NE2	1:b:273:PHE:HE1	2.06	0.53
1:k:485:GLN:HE22	1:k:537:SER:HG	1.53	0.53
1:q:396:GLU:OE1	1:q:396:GLU:N	2.30	0.53
1:r:500:TYR:HA	1:r:503:THR:OG1	2.09	0.53
1:y:528:ASP:HA	1:y:566:ARG:HH22	1.73	0.53
1:z:259:GLN:NE2	1:z:273:PHE:HE1	2.06	0.53
1:2:259:GLN:NE2	1:2:273:PHE:HE1	2.06	0.53
1:5:425:ALA:HB3	1:6:389:ARG:HH22	1.73	0.53
1:8:304:TRP:HE1	1:8:690:ASN:H	1.55	0.53
1:8:514:ASP:N	1:8:514:ASP:OD1	2.37	0.53
1:A:699:GLN:HB2	1:F:701:THR:OG1	2.09	0.53
1:C:500:TYR:HA	1:C:503:THR:OG1	2.09	0.53
1:F:500:TYR:HA	1:F:503:THR:OG1	2.09	0.53
1:G:500:TYR:HA	1:G:503:THR:OG1	2.09	0.53
1:S:528:ASP:HA	1:S:566:ARG:HH22	1.73	0.53
1:U:585:ARG:HG2	1:U:586:GLY:H	1.74	0.53
1:Y:500:TYR:HA	1:Y:503:THR:OG1	2.09	0.53
1:Z:389:ARG:HH22	1:3:425:ALA:HB3	1.74	0.53
1:f:500:TYR:HA	1:f:503:THR:OG1	2.09	0.53
1:i:304:TRP:HE1	1:i:690:ASN:H	1.55	0.53
1:j:500:TYR:O	1:j:501:SER:OG	2.24	0.53
1:k:396:GLU:OE1	1:k:396:GLU:N	2.30	0.53
1:m:585:ARG:HG2	1:m:586:GLY:H	1.74	0.53
1:p:500:TYR:HA	1:p:503:THR:OG1	2.09	0.53
1:q:500:TYR:HA	1:q:503:THR:OG1	2.09	0.53
1:s:528:ASP:HA	1:s:566:ARG:HH22	1.73	0.53
1:v:585:ARG:HG2	1:v:586:GLY:H	1.74	0.53
1:x:425:ALA:HB3	1:y:389:ARG:HH22	1.73	0.53
1:y:500:TYR:O	1:y:501:SER:OG	2.24	0.53
1:4:259:GLN:NE2	1:4:273:PHE:HE1	2.06	0.53
1:7:500:TYR:HA	1:7:503:THR:OG1	2.09	0.53
1:D:699:GLN:HB2	1:M:701:THR:OG1	2.08	0.53
1:E:585:ARG:HG2	1:E:586:GLY:H	1.74	0.53
1:G:585:ARG:HG2	1:G:586:GLY:H	1.74	0.53
1:H:528:ASP:HA	1:H:566:ARG:HH22	1.73	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:304:TRP:HE1	1:I:690:ASN:H	1.55	0.53
1:J:485:GLN:HE22	1:J:537:SER:HG	1.54	0.53
1:L:500:TYR:HA	1:L:503:THR:OG1	2.09	0.53
1:L:514:ASP:OD1	1:L:514:ASP:N	2.37	0.53
1:M:585:ARG:HG2	1:M:586:GLY:H	1.74	0.53
1:O:259:GLN:NE2	1:O:273:PHE:HE1	2.06	0.53
1:S:259:GLN:NE2	1:S:273:PHE:HE1	2.06	0.53
1:T:483:TYR:HH	1:T:506:THR:HG1	1.52	0.53
1:T:500:TYR:HA	1:T:503:THR:OG1	2.09	0.53
1:U:699:GLN:HB2	1:V:701:THR:OG1	2.09	0.53
1:V:345:ASP:OD1	1:V:345:ASP:N	2.42	0.53
1:V:425:ALA:HB3	1:e:389:ARG:HH22	1.73	0.53
1:W:701:THR:OG1	1:X:699:GLN:HB2	2.08	0.53
1:a:396:GLU:OE1	1:a:396:GLU:N	2.30	0.53
1:a:457:GLN:NE2	1:8:492:SER:O	2.42	0.53
1:c:259:GLN:NE2	1:c:273:PHE:HE1	2.06	0.53
1:d:345:ASP:N	1:d:345:ASP:OD1	2.42	0.53
1:d:699:GLN:HB2	1:n:701:THR:OG1	2.09	0.53
1:f:500:TYR:O	1:f:501:SER:OG	2.23	0.53
1:g:453:GLY:N	1:g:454:THR:HA	2.24	0.53
1:g:500:TYR:O	1:g:501:SER:OG	2.23	0.53
1:h:396:GLU:OE1	1:h:396:GLU:N	2.30	0.53
1:i:453:GLY:N	1:i:454:THR:HA	2.24	0.53
1:j:500:TYR:HA	1:j:503:THR:OG1	2.09	0.53
1:n:259:GLN:NE2	1:n:273:PHE:HE1	2.06	0.53
1:u:259:GLN:NE2	1:u:273:PHE:HE1	2.06	0.53
1:1:500:TYR:HA	1:1:503:THR:OG1	2.09	0.53
1:1:585:ARG:HG2	1:1:586:GLY:H	1.74	0.53
1:2:345:ASP:N	1:2:345:ASP:OD1	2.42	0.53
1:3:259:GLN:NE2	1:3:273:PHE:HE1	2.06	0.53
1:6:500:TYR:HA	1:6:503:THR:OG1	2.09	0.53
1:B:389:ARG:HH22	1:L:425:ALA:HB3	1.73	0.52
1:G:699:GLN:HB2	1:H:701:THR:OG1	2.09	0.52
1:I:259:GLN:NE2	1:I:273:PHE:HE1	2.06	0.52
1:J:585:ARG:HG2	1:J:586:GLY:H	1.74	0.52
1:M:304:TRP:HE1	1:M:690:ASN:H	1.55	0.52
1:O:389:ARG:HH22	1:n:425:ALA:HB3	1.73	0.52
1:P:585:ARG:HG2	1:P:586:GLY:H	1.74	0.52
1:T:345:ASP:N	1:T:345:ASP:OD1	2.42	0.52
1:T:585:ARG:HG2	1:T:586:GLY:H	1.74	0.52
1:W:699:GLN:HB2	1:X:701:THR:OG1	2.09	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:d:259:GLN:NE2	1:d:273:PHE:HE1	2.06	0.52
1:d:425:ALA:HB3	1:l:389:ARG:HH22	1.74	0.52
1:e:585:ARG:HG2	1:e:586:GLY:H	1.74	0.52
1:g:345:ASP:N	1:g:345:ASP:OD1	2.42	0.52
1:h:485:GLN:HE22	1:h:537:SER:HG	1.53	0.52
1:i:500:TYR:O	1:i:501:SER:OG	2.24	0.52
1:j:528:ASP:HA	1:j:566:ARG:HH22	1.73	0.52
1:q:699:GLN:HB2	1:x:701:THR:OG1	2.09	0.52
1:r:500:TYR:O	1:r:501:SER:OG	2.23	0.52
1:s:585:ARG:HG2	1:s:586:GLY:H	1.74	0.52
1:t:453:GLY:N	1:t:454:THR:HA	2.24	0.52
1:w:585:ARG:HG2	1:w:586:GLY:H	1.74	0.52
1:x:585:ARG:HG2	1:x:586:GLY:H	1.74	0.52
1:5:585:ARG:HG2	1:5:586:GLY:H	1.74	0.52
1:7:585:ARG:HG2	1:7:586:GLY:H	1.74	0.52
1:8:500:TYR:HA	1:8:503:THR:OG1	2.09	0.52
1:B:528:ASP:HA	1:B:566:ARG:HH22	1.73	0.52
1:J:453:GLY:N	1:J:454:THR:HA	2.24	0.52
1:K:622:PRO:HB3	1:8:735:LEU:HD21	1.91	0.52
1:M:453:GLY:N	1:M:454:THR:HA	2.25	0.52
1:N:396:GLU:OE1	1:N:396:GLU:N	2.30	0.52
1:O:453:GLY:N	1:O:454:THR:HA	2.24	0.52
1:P:453:GLY:N	1:P:454:THR:HA	2.24	0.52
1:Q:585:ARG:HG2	1:Q:586:GLY:H	1.74	0.52
1:R:396:GLU:OE1	1:R:396:GLU:N	2.30	0.52
1:R:500:TYR:HA	1:R:503:THR:OG1	2.09	0.52
1:U:304:TRP:O	1:U:423:SER:OG	2.25	0.52
1:W:528:ASP:HA	1:W:566:ARG:HH22	1.73	0.52
1:X:496:ASN:HD21	1:e:589:GLN:HA	1.73	0.52
1:Y:304:TRP:HE1	1:Y:690:ASN:H	1.55	0.52
1:Z:425:ALA:HB3	1:4:389:ARG:HH22	1.73	0.52
1:a:425:ALA:HB3	1:8:389:ARG:HH22	1.74	0.52
1:c:500:TYR:HA	1:c:503:THR:OG1	2.09	0.52
1:d:500:TYR:HA	1:d:503:THR:OG1	2.09	0.52
1:i:345:ASP:OD1	1:i:345:ASP:N	2.42	0.52
1:k:500:TYR:HA	1:k:503:THR:OG1	2.09	0.52
1:o:500:TYR:HA	1:o:503:THR:OG1	2.09	0.52
1:p:585:ARG:HG2	1:p:586:GLY:H	1.74	0.52
1:t:396:GLU:OE1	1:t:396:GLU:N	2.30	0.52
1:t:500:TYR:HA	1:t:503:THR:OG1	2.09	0.52
1:1:259:GLN:NE2	1:1:273:PHE:HE1	2.06	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:3:453:GLY:N	1:3:454:THR:HA	2.25	0.52
1:A:500:TYR:HA	1:A:503:THR:OG1	2.09	0.52
1:D:496:ASN:HD21	1:P:589:GLN:HA	1.73	0.52
1:H:514:ASP:N	1:H:514:ASP:OD1	2.37	0.52
1:I:500:TYR:HA	1:I:503:THR:OG1	2.09	0.52
1:J:699:GLN:HB2	1:K:701:THR:OG1	2.09	0.52
1:P:500:TYR:HA	1:P:503:THR:OG1	2.09	0.52
1:Q:500:TYR:HA	1:Q:503:THR:OG1	2.09	0.52
1:R:453:GLY:N	1:R:454:THR:HA	2.25	0.52
1:T:259:GLN:NE2	1:T:273:PHE:HE1	2.06	0.52
1:X:389:ARG:HH22	1:e:425:ALA:HB3	1.73	0.52
1:X:585:ARG:HG2	1:X:586:GLY:H	1.74	0.52
1:c:345:ASP:OD1	1:c:345:ASP:N	2.42	0.52
1:d:453:GLY:N	1:d:454:THR:HA	2.24	0.52
1:f:425:ALA:HB3	1:h:389:ARG:HH22	1.74	0.52
1:f:453:GLY:N	1:f:454:THR:HA	2.25	0.52
1:f:514:ASP:OD1	1:f:514:ASP:N	2.37	0.52
1:f:528:ASP:HA	1:f:566:ARG:HH22	1.73	0.52
1:h:453:GLY:N	1:h:454:THR:HA	2.24	0.52
1:h:500:TYR:HA	1:h:503:THR:OG1	2.09	0.52
1:r:304:TRP:HE1	1:r:690:ASN:H	1.55	0.52
1:1:345:ASP:N	1:1:345:ASP:OD1	2.42	0.52
1:2:500:TYR:HA	1:2:503:THR:OG1	2.09	0.52
1:5:500:TYR:HA	1:5:503:THR:OG1	2.09	0.52
1:8:453:GLY:N	1:8:454:THR:HA	2.25	0.52
1:8:585:ARG:HG2	1:8:586:GLY:H	1.74	0.52
1:A:304:TRP:HE1	1:A:690:ASN:H	1.55	0.52
1:A:389:ARG:HH22	1:I:425:ALA:HB3	1.73	0.52
1:B:453:GLY:N	1:B:454:THR:HA	2.25	0.52
1:D:389:ARG:HH22	1:P:425:ALA:HB3	1.73	0.52
1:H:585:ARG:HG2	1:H:586:GLY:H	1.74	0.52
1:I:345:ASP:OD1	1:I:345:ASP:N	2.42	0.52
1:J:701:THR:OG1	1:K:699:GLN:HB2	2.09	0.52
1:S:425:ALA:HB3	1:U:389:ARG:HH22	1.74	0.52
1:U:453:GLY:N	1:U:454:THR:HA	2.24	0.52
1:W:453:GLY:N	1:W:454:THR:HA	2.24	0.52
1:Y:500:TYR:O	1:Y:501:SER:OG	2.23	0.52
1:Z:345:ASP:N	1:Z:345:ASP:OD1	2.42	0.52
1:b:453:GLY:N	1:b:454:THR:HA	2.24	0.52
1:b:528:ASP:HA	1:b:566:ARG:HH22	1.73	0.52
1:d:500:TYR:O	1:d:501:SER:OG	2.24	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:d:507:LYS:HA	1:d:517:VAL:HG23	1.92	0.52
1:d:585:ARG:HG2	1:d:586:GLY:H	1.74	0.52
1:e:507:LYS:HA	1:e:517:VAL:HG23	1.92	0.52
1:f:507:LYS:HA	1:f:517:VAL:HG23	1.92	0.52
1:g:500:TYR:HA	1:g:503:THR:OG1	2.09	0.52
1:j:453:GLY:N	1:j:454:THR:HA	2.25	0.52
1:k:453:GLY:N	1:k:454:THR:HA	2.24	0.52
1:m:345:ASP:N	1:m:345:ASP:OD1	2.42	0.52
1:o:304:TRP:HE1	1:o:690:ASN:H	1.55	0.52
1:q:453:GLY:N	1:q:454:THR:HA	2.24	0.52
1:s:514:ASP:N	1:s:514:ASP:OD1	2.37	0.52
1:t:701:THR:OG1	1:5:699:GLN:HB2	2.09	0.52
1:w:453:GLY:N	1:w:454:THR:HA	2.24	0.52
1:x:586:GLY:HA2	1:y:496:ASN:HA	1.90	0.52
1:1:735:LEU:HD21	1:2:622:PRO:HB3	1.91	0.52
1:2:453:GLY:N	1:2:454:THR:HA	2.25	0.52
1:2:507:LYS:HA	1:2:517:VAL:HG23	1.92	0.52
1:2:585:ARG:HG2	1:2:586:GLY:H	1.74	0.52
1:3:708:VAL:HB	1:8:385:GLN:NE2	2.24	0.52
1:A:453:GLY:N	1:A:454:THR:HA	2.24	0.52
1:D:500:TYR:HA	1:D:503:THR:OG1	2.09	0.52
1:H:507:LYS:HA	1:H:517:VAL:HG23	1.92	0.52
1:I:453:GLY:N	1:I:454:THR:HA	2.24	0.52
1:K:425:ALA:HB3	1:a:389:ARG:HH22	1.73	0.52
1:P:528:ASP:HA	1:P:566:ARG:HH22	1.73	0.52
1:R:389:ARG:HH22	1:U:425:ALA:HB3	1.73	0.52
1:T:453:GLY:N	1:T:454:THR:HA	2.24	0.52
1:V:259:GLN:NE2	1:V:273:PHE:HE1	2.06	0.52
1:Y:453:GLY:N	1:Y:454:THR:HA	2.24	0.52
1:a:453:GLY:N	1:a:454:THR:HA	2.24	0.52
1:e:453:GLY:N	1:e:454:THR:HA	2.24	0.52
1:i:500:TYR:HA	1:i:503:THR:OG1	2.09	0.52
1:j:507:LYS:HA	1:j:517:VAL:HG23	1.92	0.52
1:o:507:LYS:HA	1:o:517:VAL:HG23	1.92	0.52
1:q:528:ASP:HA	1:q:566:ARG:HH22	1.73	0.52
1:q:701:THR:OG1	1:x:699:GLN:HB2	2.08	0.52
1:w:507:LYS:HA	1:w:517:VAL:HG23	1.92	0.52
1:y:259:GLN:NE2	1:y:273:PHE:HE1	2.06	0.52
1:1:453:GLY:N	1:1:454:THR:HA	2.25	0.52
1:6:585:ARG:HG2	1:6:586:GLY:H	1.74	0.52
1:7:507:LYS:HA	1:7:517:VAL:HG23	1.92	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:507:LYS:HA	1:A:517:VAL:HG23	1.92	0.52
1:C:259:GLN:NE2	1:C:273:PHE:HE1	2.06	0.52
1:C:453:GLY:N	1:C:454:THR:HA	2.25	0.52
1:D:425:ALA:HB3	1:N:389:ARG:HH22	1.73	0.52
1:D:526:HIS:CE1	1:D:563:GLU:HB3	2.45	0.52
1:E:345:ASP:N	1:E:345:ASP:OD1	2.42	0.52
1:E:507:LYS:HA	1:E:517:VAL:HG23	1.92	0.52
1:F:345:ASP:OD1	1:F:345:ASP:N	2.42	0.52
1:F:507:LYS:HA	1:F:517:VAL:HG23	1.92	0.52
1:F:585:ARG:HG2	1:F:586:GLY:H	1.74	0.52
1:G:453:GLY:N	1:G:454:THR:HA	2.24	0.52
1:J:507:LYS:HA	1:J:517:VAL:HG23	1.92	0.52
1:J:525:SER:OG	1:J:561:ASP:OD1	2.16	0.52
1:K:500:TYR:HA	1:K:503:THR:OG1	2.09	0.52
1:K:526:HIS:CE1	1:K:563:GLU:HB3	2.45	0.52
1:L:453:GLY:N	1:L:454:THR:HA	2.24	0.52
1:M:507:LYS:HA	1:M:517:VAL:HG23	1.92	0.52
1:N:453:GLY:N	1:N:454:THR:HA	2.24	0.52
1:Q:507:LYS:HA	1:Q:517:VAL:HG23	1.92	0.52
1:S:453:GLY:N	1:S:454:THR:HA	2.25	0.52
1:S:699:GLN:HB2	1:T:701:THR:OG1	2.08	0.52
1:c:425:ALA:HB3	1:o:389:ARG:HH22	1.73	0.52
1:e:396:GLU:OE1	1:e:396:GLU:N	2.30	0.52
1:g:701:THR:OG1	1:z:699:GLN:HB2	2.10	0.52
1:h:500:TYR:O	1:h:501:SER:OG	2.24	0.52
1:k:345:ASP:OD1	1:k:345:ASP:N	2.42	0.52
1:m:507:LYS:HA	1:m:517:VAL:HG23	1.92	0.52
1:o:453:GLY:N	1:o:454:THR:HA	2.25	0.52
1:s:507:LYS:HA	1:s:517:VAL:HG23	1.92	0.52
1:v:453:GLY:N	1:v:454:THR:HA	2.25	0.52
1:w:389:ARG:HH22	1:y:425:ALA:HB3	1.74	0.52
1:w:425:ALA:HB3	1:x:389:ARG:HH22	1.74	0.52
1:y:585:ARG:HG2	1:y:586:GLY:H	1.74	0.52
1:z:345:ASP:N	1:z:345:ASP:OD1	2.42	0.52
1:1:586:GLY:HA2	1:2:496:ASN:HA	1.90	0.52
1:3:526:HIS:CE1	1:3:563:GLU:HB3	2.45	0.52
1:6:453:GLY:N	1:6:454:THR:HA	2.24	0.52
1:6:507:LYS:HA	1:6:517:VAL:HG23	1.92	0.52
1:7:345:ASP:N	1:7:345:ASP:OD1	2.42	0.52
1:B:483:TYR:OH	1:B:506:THR:OG1	2.27	0.52
1:B:526:HIS:CE1	1:B:563:GLU:HB3	2.45	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:507:LYS:HA	1:C:517:VAL:HG23	1.92	0.52
1:D:453:GLY:N	1:D:454:THR:HA	2.24	0.52
1:I:526:HIS:CE1	1:I:563:GLU:HB3	2.45	0.52
1:L:507:LYS:HA	1:L:517:VAL:HG23	1.92	0.52
1:M:500:TYR:HA	1:M:503:THR:OG1	2.09	0.52
1:N:526:HIS:CE1	1:N:563:GLU:HB3	2.45	0.52
1:W:507:LYS:HA	1:W:517:VAL:HG23	1.92	0.52
1:W:526:HIS:CE1	1:W:563:GLU:HB3	2.45	0.52
1:Y:699:GLN:HB2	1:Z:701:THR:OG1	2.08	0.52
1:a:500:TYR:HA	1:a:503:THR:OG1	2.09	0.52
1:a:526:HIS:CE1	1:a:563:GLU:HB3	2.45	0.52
1:b:483:TYR:OH	1:b:506:THR:OG1	2.27	0.52
1:b:526:HIS:CE1	1:b:563:GLU:HB3	2.45	0.52
1:c:453:GLY:N	1:c:454:THR:HA	2.25	0.52
1:h:345:ASP:N	1:h:345:ASP:OD1	2.42	0.52
1:l:526:HIS:CE1	1:l:563:GLU:HB3	2.45	0.52
1:m:425:ALA:HB3	1:n:389:ARG:HH22	1.73	0.52
1:n:526:HIS:CE1	1:n:563:GLU:HB3	2.45	0.52
1:o:701:THR:OG1	1:6:699:GLN:HB2	2.09	0.52
1:p:259:GLN:NE2	1:p:273:PHE:HE1	2.06	0.52
1:q:507:LYS:HA	1:q:517:VAL:HG23	1.92	0.52
1:q:526:HIS:CE1	1:q:563:GLU:HB3	2.45	0.52
1:r:453:GLY:N	1:r:454:THR:HA	2.25	0.52
1:s:500:TYR:HA	1:s:503:THR:OG1	2.09	0.52
1:u:453:GLY:N	1:u:454:THR:HA	2.25	0.52
1:1:598:GLN:HE22	1:2:597:THR:HG21	1.75	0.52
1:2:500:TYR:O	1:2:501:SER:OG	2.24	0.52
1:6:345:ASP:OD1	1:6:345:ASP:N	2.42	0.52
1:8:528:ASP:HA	1:8:566:ARG:HH22	1.73	0.52
1:B:558:MET:SD	1:B:725:PRO:HD3	2.50	0.52
1:D:598:GLN:HE22	1:N:597:THR:HG21	1.75	0.52
1:E:389:ARG:HH22	1:F:425:ALA:HB3	1.74	0.52
1:F:453:GLY:N	1:F:454:THR:HA	2.25	0.52
1:G:259:GLN:NE2	1:G:273:PHE:HE1	2.06	0.52
1:J:500:TYR:HA	1:J:503:THR:OG1	2.09	0.52
1:K:453:GLY:N	1:K:454:THR:HA	2.25	0.52
1:M:558:MET:SD	1:M:725:PRO:HD3	2.50	0.52
1:N:500:TYR:HA	1:N:503:THR:OG1	2.09	0.52
1:O:526:HIS:CE1	1:O:563:GLU:HB3	2.45	0.52
1:P:287:PHE:O	1:P:290:HIS:N	2.43	0.52
1:Q:701:THR:OG1	1:R:699:GLN:HB2	2.09	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:S:558:MET:SD	1:S:725:PRO:HD3	2.50	0.52
1:T:507:LYS:HA	1:T:517:VAL:HG23	1.92	0.52
1:U:514:ASP:OD1	1:U:514:ASP:N	2.37	0.52
1:U:558:MET:SD	1:U:725:PRO:HD3	2.50	0.52
1:V:503:THR:N	1:V:504:GLY:HA3	2.25	0.52
1:V:585:ARG:HG2	1:V:586:GLY:H	1.74	0.52
1:X:453:GLY:N	1:X:454:THR:HA	2.24	0.52
1:X:526:HIS:CE1	1:X:563:GLU:HB3	2.45	0.52
1:Y:396:GLU:OE1	1:Y:396:GLU:N	2.30	0.52
1:Y:503:THR:N	1:Y:504:GLY:HA3	2.25	0.52
1:Z:507:LYS:HA	1:Z:517:VAL:HG23	1.92	0.52
1:Z:526:HIS:CE1	1:Z:563:GLU:HB3	2.45	0.52
1:a:300:ILE:HD11	1:a:728:THR:HA	1.92	0.52
1:b:558:MET:SD	1:b:725:PRO:HD3	2.50	0.52
1:c:526:HIS:CE1	1:c:563:GLU:HB3	2.45	0.52
1:d:519:PRO:HA	1:d:538:GLY:HA2	1.92	0.52
1:e:526:HIS:CE1	1:e:563:GLU:HB3	2.45	0.52
1:i:503:THR:N	1:i:504:GLY:HA3	2.25	0.52
1:j:699:GLN:HB2	1:w:701:THR:OG1	2.09	0.52
1:l:345:ASP:OD1	1:l:345:ASP:N	2.42	0.52
1:l:558:MET:SD	1:l:725:PRO:HD3	2.50	0.52
1:m:526:HIS:CE1	1:m:563:GLU:HB3	2.45	0.52
1:p:453:GLY:N	1:p:454:THR:HA	2.25	0.52
1:p:558:MET:SD	1:p:725:PRO:HD3	2.50	0.52
1:t:699:GLN:HB2	1:5:701:THR:OG1	2.09	0.52
1:u:558:MET:SD	1:u:725:PRO:HD3	2.50	0.52
1:v:558:MET:SD	1:v:725:PRO:HD3	2.50	0.52
1:w:526:HIS:CE1	1:w:563:GLU:HB3	2.45	0.52
1:x:453:GLY:N	1:x:454:THR:HA	2.24	0.52
1:z:526:HIS:CE1	1:z:563:GLU:HB3	2.45	0.52
1:z:558:MET:SD	1:z:725:PRO:HD3	2.50	0.52
1:2:519:PRO:HA	1:2:538:GLY:HA2	1.92	0.52
1:4:526:HIS:CE1	1:4:563:GLU:HB3	2.45	0.52
1:5:507:LYS:HA	1:5:517:VAL:HG23	1.92	0.52
1:8:526:HIS:CE1	1:8:563:GLU:HB3	2.45	0.52
1:B:300:ILE:HD11	1:B:728:THR:HA	1.92	0.52
1:C:300:ILE:HD11	1:C:728:THR:HA	1.92	0.52
1:E:699:GLN:HB2	1:P:701:THR:OG1	2.09	0.52
1:G:558:MET:SD	1:G:725:PRO:HD3	2.50	0.52
1:H:500:TYR:HA	1:H:503:THR:OG1	2.09	0.52
1:J:558:MET:SD	1:J:725:PRO:HD3	2.50	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:259:GLN:NE2	1:L:273:PHE:HE1	2.06	0.52
1:L:300:ILE:HD11	1:L:728:THR:HA	1.92	0.52
1:M:485:GLN:HE22	1:M:537:SER:HG	1.54	0.52
1:N:300:ILE:HD11	1:N:728:THR:HA	1.92	0.52
1:O:300:ILE:HD11	1:O:728:THR:HA	1.92	0.52
1:P:526:HIS:CE1	1:P:563:GLU:HB3	2.45	0.52
1:S:701:THR:OG1	1:T:699:GLN:HB2	2.09	0.52
1:U:396:GLU:OE1	1:U:396:GLU:N	2.30	0.52
1:U:483:TYR:HH	1:U:506:THR:HG1	1.55	0.52
1:V:500:TYR:HA	1:V:503:THR:OG1	2.09	0.52
1:V:558:MET:SD	1:V:725:PRO:HD3	2.50	0.52
1:W:503:THR:N	1:W:504:GLY:HA3	2.25	0.52
1:X:300:ILE:HD11	1:X:728:THR:HA	1.92	0.52
1:X:507:LYS:HA	1:X:517:VAL:HG23	1.92	0.52
1:d:526:HIS:CE1	1:d:563:GLU:HB3	2.45	0.52
1:e:500:TYR:HA	1:e:503:THR:OG1	2.09	0.52
1:k:500:TYR:O	1:k:501:SER:OG	2.23	0.52
1:k:558:MET:SD	1:k:725:PRO:HD3	2.50	0.52
1:l:500:TYR:HA	1:l:503:THR:OG1	2.09	0.52
1:n:503:THR:N	1:n:504:GLY:HA3	2.25	0.52
1:p:500:TYR:O	1:p:501:SER:OG	2.24	0.52
1:q:503:THR:N	1:q:504:GLY:HA3	2.25	0.52
1:r:503:THR:N	1:r:504:GLY:HA3	2.25	0.52
1:r:514:ASP:N	1:r:514:ASP:OD1	2.37	0.52
1:s:300:ILE:HD11	1:s:728:THR:HA	1.92	0.52
1:s:558:MET:SD	1:s:725:PRO:HD3	2.50	0.52
1:t:526:HIS:CE1	1:t:563:GLU:HB3	2.45	0.52
1:v:526:HIS:CE1	1:v:563:GLU:HB3	2.45	0.52
1:w:503:THR:N	1:w:504:GLY:HA3	2.25	0.52
1:y:507:LYS:HA	1:y:517:VAL:HG23	1.92	0.52
1:y:558:MET:SD	1:y:725:PRO:HD3	2.50	0.52
1:1:507:LYS:HA	1:1:517:VAL:HG23	1.92	0.52
1:2:526:HIS:CE1	1:2:563:GLU:HB3	2.45	0.52
1:4:503:THR:N	1:4:504:GLY:HA3	2.25	0.52
1:6:425:ALA:HB3	1:7:389:ARG:HH22	1.74	0.52
1:7:300:ILE:HD11	1:7:728:THR:HA	1.92	0.52
1:8:287:PHE:O	1:8:290:HIS:N	2.43	0.52
1:A:519:PRO:HA	1:A:538:GLY:HA2	1.92	0.52
1:E:300:ILE:HD11	1:E:728:THR:HA	1.92	0.52
1:E:453:GLY:N	1:E:454:THR:HA	2.25	0.52
1:E:503:THR:N	1:E:504:GLY:HA3	2.25	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:525:SER:OG	1:E:561:ASP:OD1	2.16	0.52
1:F:558:MET:SD	1:F:725:PRO:HD3	2.50	0.52
1:G:507:LYS:HA	1:G:517:VAL:HG23	1.92	0.52
1:H:558:MET:SD	1:H:725:PRO:HD3	2.50	0.52
1:I:483:TYR:HH	1:I:506:THR:HG1	1.51	0.52
1:I:558:MET:SD	1:I:725:PRO:HD3	2.50	0.52
1:M:525:SER:OG	1:M:561:ASP:OD1	2.16	0.52
1:Q:453:GLY:N	1:Q:454:THR:HA	2.25	0.52
1:R:526:HIS:CE1	1:R:563:GLU:HB3	2.45	0.52
1:W:519:PRO:HA	1:W:538:GLY:HA2	1.92	0.52
1:W:558:MET:SD	1:W:725:PRO:HD3	2.50	0.52
1:a:514:ASP:OD1	1:a:514:ASP:N	2.37	0.52
1:b:300:ILE:HD11	1:b:728:THR:HA	1.92	0.52
1:c:558:MET:SD	1:c:725:PRO:HD3	2.50	0.52
1:e:503:THR:N	1:e:504:GLY:HA3	2.25	0.52
1:f:597:THR:HG21	1:g:598:GLN:HE22	1.75	0.52
1:g:300:ILE:HD11	1:g:728:THR:HA	1.92	0.52
1:g:503:THR:N	1:g:504:GLY:HA3	2.25	0.52
1:m:701:THR:OG1	1:r:699:GLN:HB2	2.09	0.52
1:o:519:PRO:HA	1:o:538:GLY:HA2	1.92	0.52
1:p:503:THR:N	1:p:504:GLY:HA3	2.25	0.52
1:p:507:LYS:HA	1:p:517:VAL:HG23	1.92	0.52
1:p:526:HIS:CE1	1:p:563:GLU:HB3	2.45	0.52
1:q:519:PRO:HA	1:q:538:GLY:HA2	1.92	0.52
1:r:345:ASP:N	1:r:345:ASP:OD1	2.42	0.52
1:r:526:HIS:CE1	1:r:563:GLU:HB3	2.45	0.52
1:v:300:ILE:HD11	1:v:728:THR:HA	1.92	0.52
1:x:300:ILE:HD11	1:x:728:THR:HA	1.92	0.52
1:x:526:HIS:CE1	1:x:563:GLU:HB3	2.45	0.52
1:y:500:TYR:HA	1:y:503:THR:OG1	2.09	0.52
1:y:503:THR:N	1:y:504:GLY:HA3	2.25	0.52
1:z:453:GLY:N	1:z:454:THR:HA	2.24	0.52
1:3:300:ILE:HD11	1:3:728:THR:HA	1.92	0.52
1:5:453:GLY:N	1:5:454:THR:HA	2.24	0.52
1:6:503:THR:N	1:6:504:GLY:HA3	2.25	0.52
1:7:453:GLY:N	1:7:454:THR:HA	2.24	0.52
1:7:503:THR:N	1:7:504:GLY:HA3	2.25	0.52
1:7:525:SER:OG	1:7:561:ASP:OD1	2.16	0.52
1:C:585:ARG:HG2	1:C:586:GLY:H	1.74	0.51
1:F:503:THR:N	1:F:504:GLY:HA3	2.25	0.51
1:G:503:THR:N	1:G:504:GLY:HA3	2.25	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:526:HIS:CE1	1:G:563:GLU:HB3	2.45	0.51
1:H:300:ILE:HD11	1:H:728:THR:HA	1.92	0.51
1:L:519:PRO:HA	1:L:538:GLY:HA2	1.92	0.51
1:N:558:MET:SD	1:N:725:PRO:HD3	2.50	0.51
1:P:396:GLU:OE1	1:P:396:GLU:N	2.30	0.51
1:P:507:LYS:HA	1:P:517:VAL:HG23	1.92	0.51
1:R:585:ARG:HG2	1:R:586:GLY:H	1.74	0.51
1:U:300:ILE:HD11	1:U:728:THR:HA	1.92	0.51
1:V:507:LYS:HA	1:V:517:VAL:HG23	1.92	0.51
1:Y:300:ILE:HD11	1:Y:728:THR:HA	1.92	0.51
1:Y:345:ASP:OD1	1:Y:345:ASP:N	2.42	0.51
1:Y:514:ASP:OD1	1:Y:514:ASP:N	2.37	0.51
1:Y:526:HIS:CE1	1:Y:563:GLU:HB3	2.45	0.51
1:Z:300:ILE:HD11	1:Z:728:THR:HA	1.92	0.51
1:a:558:MET:SD	1:a:725:PRO:HD3	2.50	0.51
1:h:300:ILE:HD11	1:h:728:THR:HA	1.92	0.51
1:h:558:MET:SD	1:h:725:PRO:HD3	2.50	0.51
1:i:558:MET:SD	1:i:725:PRO:HD3	2.50	0.51
1:l:453:GLY:N	1:l:454:THR:HA	2.24	0.51
1:o:526:HIS:CE1	1:o:563:GLU:HB3	2.45	0.51
1:q:514:ASP:OD1	1:q:514:ASP:N	2.37	0.51
1:w:500:TYR:HA	1:w:503:THR:OG1	2.09	0.51
1:x:503:THR:N	1:x:504:GLY:HA3	2.25	0.51
1:x:507:LYS:HA	1:x:517:VAL:HG23	1.92	0.51
1:z:500:TYR:HA	1:z:503:THR:OG1	2.09	0.51
1:4:453:GLY:N	1:4:454:THR:HA	2.25	0.51
1:6:558:MET:SD	1:6:725:PRO:HD3	2.50	0.51
1:8:519:PRO:HA	1:8:538:GLY:HA2	1.92	0.51
1:A:526:HIS:CE1	1:A:563:GLU:HB3	2.45	0.51
1:C:519:PRO:HA	1:C:538:GLY:HA2	1.92	0.51
1:D:503:THR:N	1:D:504:GLY:HA3	2.25	0.51
1:F:304:TRP:CD1	1:F:689:GLU:HA	2.46	0.51
1:G:500:TYR:O	1:G:501:SER:OG	2.24	0.51
1:K:503:THR:N	1:K:504:GLY:HA3	2.25	0.51
1:L:585:ARG:HG2	1:L:586:GLY:H	1.74	0.51
1:N:514:ASP:OD1	1:N:514:ASP:N	2.37	0.51
1:P:519:PRO:HA	1:P:538:GLY:HA2	1.92	0.51
1:T:514:ASP:OD1	1:T:514:ASP:N	2.37	0.51
1:U:519:PRO:HA	1:U:538:GLY:HA2	1.92	0.51
1:U:526:HIS:CE1	1:U:563:GLU:HB3	2.45	0.51
1:V:519:PRO:HA	1:V:538:GLY:HA2	1.92	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:W:300:ILE:HD11	1:W:728:THR:HA	1.92	0.51
1:X:500:TYR:HA	1:X:503:THR:OG1	2.09	0.51
1:X:503:THR:N	1:X:504:GLY:HA3	2.25	0.51
1:Z:503:THR:N	1:Z:504:GLY:HA3	2.25	0.51
1:i:300:ILE:HD11	1:i:728:THR:HA	1.92	0.51
1:k:300:ILE:HD11	1:k:728:THR:HA	1.92	0.51
1:m:300:ILE:HD11	1:m:728:THR:HA	1.92	0.51
1:n:453:GLY:N	1:n:454:THR:HA	2.25	0.51
1:p:300:ILE:HD11	1:p:728:THR:HA	1.92	0.51
1:q:286:ARG:HD3	1:q:361:CYS:HB3	1.93	0.51
1:q:558:MET:SD	1:q:725:PRO:HD3	2.50	0.51
1:r:300:ILE:HD11	1:r:728:THR:HA	1.92	0.51
1:r:396:GLU:OE1	1:r:396:GLU:N	2.30	0.51
1:s:526:HIS:CE1	1:s:563:GLU:HB3	2.45	0.51
1:v:507:LYS:HA	1:v:517:VAL:HG23	1.92	0.51
1:v:514:ASP:OD1	1:v:514:ASP:N	2.37	0.51
1:v:519:PRO:HA	1:v:538:GLY:HA2	1.92	0.51
1:w:300:ILE:HD11	1:w:728:THR:HA	1.92	0.51
1:w:396:GLU:OE1	1:w:396:GLU:N	2.30	0.51
1:w:489:SER:N	1:w:495:ASN:OD1	2.44	0.51
1:y:519:PRO:HA	1:y:538:GLY:HA2	1.92	0.51
1:4:500:TYR:HA	1:4:503:THR:OG1	2.09	0.51
1:6:304:TRP:CD1	1:6:689:GLU:HA	2.46	0.51
1:8:507:LYS:HA	1:8:517:VAL:HG23	1.92	0.51
1:G:514:ASP:N	1:G:514:ASP:OD1	2.37	0.51
1:H:259:GLN:NE2	1:H:273:PHE:HE1	2.06	0.51
1:H:503:THR:N	1:H:504:GLY:HA3	2.25	0.51
1:H:526:HIS:CE1	1:H:563:GLU:HB3	2.45	0.51
1:K:585:ARG:HG2	1:K:586:GLY:H	1.74	0.51
1:O:558:MET:SD	1:O:725:PRO:HD3	2.50	0.51
1:P:300:ILE:HD11	1:P:728:THR:HA	1.92	0.51
1:Q:503:THR:N	1:Q:504:GLY:HA3	2.25	0.51
1:Q:558:MET:SD	1:Q:725:PRO:HD3	2.50	0.51
1:Q:699:GLN:HB2	1:R:701:THR:OG1	2.10	0.51
1:R:287:PHE:O	1:R:290:HIS:N	2.43	0.51
1:T:389:ARG:HH22	1:l:425:ALA:HB3	1.74	0.51
1:T:503:THR:N	1:T:504:GLY:HA3	2.25	0.51
1:V:286:ARG:HD3	1:V:361:CYS:HB3	1.93	0.51
1:W:241:THR:HG21	1:W:291:PHE:CE1	2.44	0.51
1:W:286:ARG:HD3	1:W:361:CYS:HB3	1.93	0.51
1:X:489:SER:N	1:X:495:ASN:OD1	2.44	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:b:241:THR:HG21	1:b:291:PHE:CE1	2.44	0.51
1:f:300:ILE:HD11	1:f:728:THR:HA	1.92	0.51
1:f:526:HIS:CE1	1:f:563:GLU:HB3	2.45	0.51
1:g:304:TRP:CD1	1:g:689:GLU:HA	2.46	0.51
1:h:503:THR:N	1:h:504:GLY:HA3	2.25	0.51
1:i:304:TRP:CD1	1:i:689:GLU:HA	2.46	0.51
1:j:300:ILE:HD11	1:j:728:THR:HA	1.92	0.51
1:l:286:ARG:HD3	1:l:361:CYS:HB3	1.93	0.51
1:m:503:THR:N	1:m:504:GLY:HA3	2.25	0.51
1:n:300:ILE:HD11	1:n:728:THR:HA	1.92	0.51
1:n:500:TYR:HA	1:n:503:THR:OG1	2.09	0.51
1:q:300:ILE:HD11	1:q:728:THR:HA	1.92	0.51
1:s:503:THR:N	1:s:504:GLY:HA3	2.25	0.51
1:t:287:PHE:O	1:t:290:HIS:N	2.43	0.51
1:v:503:THR:N	1:v:504:GLY:HA3	2.25	0.51
1:x:489:SER:N	1:x:495:ASN:OD1	2.44	0.51
1:y:286:ARG:HD3	1:y:361:CYS:HB3	1.93	0.51
1:y:453:GLY:N	1:y:454:THR:HA	2.25	0.51
1:z:286:ARG:HD3	1:z:361:CYS:HB3	1.93	0.51
1:1:304:TRP:CD1	1:1:689:GLU:HA	2.46	0.51
1:1:503:THR:N	1:1:504:GLY:HA3	2.25	0.51
1:3:519:PRO:HA	1:3:538:GLY:HA2	1.92	0.51
1:3:558:MET:SD	1:3:725:PRO:HD3	2.50	0.51
1:B:241:THR:HG21	1:B:291:PHE:CE1	2.44	0.51
1:B:503:THR:N	1:B:504:GLY:HA3	2.25	0.51
1:D:300:ILE:HD11	1:D:728:THR:HA	1.92	0.51
1:D:585:ARG:HG2	1:D:586:GLY:H	1.74	0.51
1:E:519:PRO:HA	1:E:538:GLY:HA2	1.92	0.51
1:G:300:ILE:HD11	1:G:728:THR:HA	1.92	0.51
1:G:485:GLN:HE22	1:G:537:SER:HG	1.52	0.51
1:K:300:ILE:HD11	1:K:728:THR:HA	1.92	0.51
1:L:287:PHE:O	1:L:290:HIS:N	2.43	0.51
1:O:519:PRO:HA	1:O:538:GLY:HA2	1.92	0.51
1:T:286:ARG:HD3	1:T:361:CYS:HB3	1.93	0.51
1:U:507:LYS:HA	1:U:517:VAL:HG23	1.92	0.51
1:W:514:ASP:N	1:W:514:ASP:OD1	2.37	0.51
1:X:519:PRO:HA	1:X:538:GLY:HA2	1.92	0.51
1:X:558:MET:SD	1:X:725:PRO:HD3	2.50	0.51
1:a:286:ARG:HD3	1:a:361:CYS:HB3	1.93	0.51
1:c:287:PHE:O	1:c:290:HIS:N	2.43	0.51
1:d:304:TRP:CD1	1:d:689:GLU:HA	2.46	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:f:503:THR:N	1:f:504:GLY:HA3	2.25	0.51
1:g:558:MET:SD	1:g:725:PRO:HD3	2.50	0.51
1:h:519:PRO:HA	1:h:538:GLY:HA2	1.92	0.51
1:j:526:HIS:CE1	1:j:563:GLU:HB3	2.45	0.51
1:j:585:ARG:HG2	1:j:586:GLY:H	1.74	0.51
1:l:507:LYS:HA	1:l:517:VAL:HG23	1.92	0.51
1:n:585:ARG:HG2	1:n:586:GLY:H	1.74	0.51
1:s:259:GLN:NE2	1:s:273:PHE:HE1	2.06	0.51
1:t:585:ARG:HG2	1:t:586:GLY:H	1.74	0.51
1:u:526:HIS:CE1	1:u:563:GLU:HB3	2.45	0.51
1:v:396:GLU:OE1	1:v:396:GLU:N	2.30	0.51
1:x:500:TYR:HA	1:x:503:THR:OG1	2.09	0.51
1:x:519:PRO:HA	1:x:538:GLY:HA2	1.92	0.51
1:x:558:MET:SD	1:x:725:PRO:HD3	2.50	0.51
1:z:304:TRP:CD1	1:z:689:GLU:HA	2.46	0.51
1:4:585:ARG:HG2	1:4:586:GLY:H	1.74	0.51
1:5:503:THR:N	1:5:504:GLY:HA3	2.25	0.51
1:5:558:MET:SD	1:5:725:PRO:HD3	2.50	0.51
1:7:519:PRO:HA	1:7:538:GLY:HA2	1.92	0.51
1:D:519:PRO:HA	1:D:538:GLY:HA2	1.92	0.51
1:D:701:THR:OG1	1:M:699:GLN:HB2	2.10	0.51
1:E:558:MET:SD	1:E:725:PRO:HD3	2.50	0.51
1:J:286:ARG:HD3	1:J:361:CYS:HB3	1.93	0.51
1:K:598:GLN:HE22	1:a:597:THR:HG21	1.76	0.51
1:L:482:CYS:SG	1:L:576:TYR:HB2	2.51	0.51
1:N:286:ARG:HD3	1:N:361:CYS:HB3	1.93	0.51
1:N:287:PHE:O	1:N:290:HIS:N	2.43	0.51
1:P:500:TYR:O	1:P:501:SER:OG	2.24	0.51
1:P:503:THR:N	1:P:504:GLY:HA3	2.25	0.51
1:S:304:TRP:CD1	1:S:689:GLU:HA	2.46	0.51
1:S:526:HIS:CE1	1:S:563:GLU:HB3	2.45	0.51
1:T:304:TRP:CD1	1:T:689:GLU:HA	2.46	0.51
1:T:558:MET:SD	1:T:725:PRO:HD3	2.50	0.51
1:U:503:THR:N	1:U:504:GLY:HA3	2.25	0.51
1:V:304:TRP:CD1	1:V:689:GLU:HA	2.46	0.51
1:V:453:GLY:N	1:V:454:THR:HA	2.25	0.51
1:V:526:HIS:CE1	1:V:563:GLU:HB3	2.45	0.51
1:c:286:ARG:HD3	1:c:361:CYS:HB3	1.93	0.51
1:d:598:GLN:HE22	1:l:597:THR:HG21	1.76	0.51
1:e:300:ILE:HD11	1:e:728:THR:HA	1.92	0.51
1:h:526:HIS:CE1	1:h:563:GLU:HB3	2.45	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:i:526:HIS:CE1	1:i:563:GLU:HB3	2.45	0.51
1:j:503:THR:N	1:j:504:GLY:HA3	2.25	0.51
1:j:514:ASP:N	1:j:514:ASP:OD1	2.37	0.51
1:k:503:THR:N	1:k:504:GLY:HA3	2.25	0.51
1:k:519:PRO:HA	1:k:538:GLY:HA2	1.92	0.51
1:l:304:TRP:CD1	1:l:689:GLU:HA	2.46	0.51
1:m:489:SER:N	1:m:495:ASN:OD1	2.44	0.51
1:o:503:THR:N	1:o:504:GLY:HA3	2.25	0.51
1:q:241:THR:HG21	1:q:291:PHE:CE1	2.44	0.51
1:r:558:MET:SD	1:r:725:PRO:HD3	2.50	0.51
1:u:300:ILE:HD11	1:u:728:THR:HA	1.92	0.51
1:v:500:TYR:HA	1:v:503:THR:OG1	2.09	0.51
1:w:558:MET:SD	1:w:725:PRO:HD3	2.50	0.51
1:1:286:ARG:HD3	1:1:361:CYS:HB3	1.93	0.51
1:1:514:ASP:OD1	1:1:514:ASP:N	2.37	0.51
1:1:558:MET:SD	1:1:725:PRO:HD3	2.50	0.51
1:2:304:TRP:CD1	1:2:689:GLU:HA	2.46	0.51
1:4:286:ARG:HD3	1:4:361:CYS:HB3	1.93	0.51
1:4:300:ILE:HD11	1:4:728:THR:HA	1.92	0.51
1:5:526:HIS:CE1	1:5:563:GLU:HB3	2.45	0.51
1:6:485:GLN:HE22	1:6:537:SER:HG	1.51	0.51
1:8:300:ILE:HD11	1:8:728:THR:HA	1.92	0.51
1:B:286:ARG:HD3	1:B:361:CYS:HB3	1.93	0.51
1:C:287:PHE:O	1:C:290:HIS:N	2.43	0.51
1:C:482:CYS:SG	1:C:576:TYR:HB2	2.51	0.51
1:C:699:GLN:HB2	1:L:701:THR:OG1	2.09	0.51
1:D:507:LYS:HA	1:D:517:VAL:HG23	1.92	0.51
1:F:485:GLN:HE22	1:F:537:SER:HG	1.51	0.51
1:I:286:ARG:HD3	1:I:361:CYS:HB3	1.93	0.51
1:I:287:PHE:O	1:I:290:HIS:N	2.43	0.51
1:I:585:ARG:HG2	1:I:586:GLY:H	1.74	0.51
1:M:503:THR:N	1:M:504:GLY:HA3	2.25	0.51
1:P:286:ARG:HD3	1:P:361:CYS:HB3	1.93	0.51
1:P:558:MET:SD	1:P:725:PRO:HD3	2.50	0.51
1:T:597:THR:HG21	1:1:598:GLN:HE22	1.76	0.51
1:W:345:ASP:N	1:W:345:ASP:OD1	2.42	0.51
1:W:585:ARG:HG2	1:W:586:GLY:H	1.74	0.51
1:W:598:GLN:HE22	1:Y:597:THR:HG21	1.76	0.51
1:X:241:THR:HG21	1:X:291:PHE:CE1	2.44	0.51
1:Z:286:ARG:HD3	1:Z:361:CYS:HB3	1.93	0.51
1:Z:489:SER:N	1:Z:495:ASN:OD1	2.44	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:a:287:PHE:O	1:a:290:HIS:N	2.43	0.51
1:a:701:THR:OG1	1:3:699:GLN:HB2	2.10	0.51
1:b:503:THR:N	1:b:504:GLY:HA3	2.25	0.51
1:c:585:ARG:HG2	1:c:586:GLY:H	1.74	0.51
1:e:304:TRP:CD1	1:e:689:GLU:HA	2.46	0.51
1:f:489:SER:N	1:f:495:ASN:OD1	2.44	0.51
1:i:598:GLN:HE22	1:j:597:THR:HG21	1.76	0.51
1:k:526:HIS:CE1	1:k:563:GLU:HB3	2.45	0.51
1:n:286:ARG:HD3	1:n:361:CYS:HB3	1.93	0.51
1:q:345:ASP:OD1	1:q:345:ASP:N	2.42	0.51
1:q:585:ARG:HG2	1:q:586:GLY:H	1.74	0.51
1:r:519:PRO:HA	1:r:538:GLY:HA2	1.92	0.51
1:u:304:TRP:CD1	1:u:689:GLU:HA	2.46	0.51
1:u:519:PRO:HA	1:u:538:GLY:HA2	1.92	0.51
1:w:304:TRP:CD1	1:w:689:GLU:HA	2.46	0.51
1:x:241:THR:HG21	1:x:291:PHE:CE1	2.44	0.51
1:y:304:TRP:CD1	1:y:689:GLU:HA	2.46	0.51
1:z:507:LYS:HA	1:z:517:VAL:HG23	1.92	0.51
1:3:286:ARG:HD3	1:3:361:CYS:HB3	1.93	0.51
1:4:519:PRO:HA	1:4:538:GLY:HA2	1.92	0.51
1:8:396:GLU:OE1	1:8:396:GLU:N	2.30	0.51
1:A:503:THR:N	1:A:504:GLY:HA3	2.25	0.51
1:B:396:GLU:OE1	1:B:396:GLU:N	2.30	0.51
1:C:345:ASP:OD1	1:C:345:ASP:N	2.42	0.51
1:D:345:ASP:N	1:D:345:ASP:OD1	2.42	0.51
1:F:526:HIS:CE1	1:F:563:GLU:HB3	2.45	0.51
1:J:503:THR:N	1:J:504:GLY:HA3	2.25	0.51
1:K:345:ASP:OD1	1:K:345:ASP:N	2.42	0.51
1:K:507:LYS:HA	1:K:517:VAL:HG23	1.92	0.51
1:K:519:PRO:HA	1:K:538:GLY:HA2	1.92	0.51
1:M:287:PHE:O	1:M:290:HIS:N	2.43	0.51
1:N:345:ASP:OD1	1:N:345:ASP:N	2.42	0.51
1:N:482:CYS:SG	1:N:576:TYR:HB2	2.51	0.51
1:N:701:THR:OG1	1:O:699:GLN:HB2	2.11	0.51
1:O:286:ARG:HD3	1:O:361:CYS:HB3	1.93	0.51
1:Q:526:HIS:CE1	1:Q:563:GLU:HB3	2.45	0.51
1:R:503:THR:N	1:R:504:GLY:HA3	2.25	0.51
1:S:507:LYS:HA	1:S:517:VAL:HG23	1.92	0.51
1:S:519:PRO:HA	1:S:538:GLY:HA2	1.92	0.51
1:S:598:GLN:HE22	1:U:597:THR:HG21	1.76	0.51
1:U:500:TYR:HA	1:U:503:THR:OG1	2.09	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Y:519:PRO:HA	1:Y:538:GLY:HA2	1.92	0.51
1:Y:558:MET:SD	1:Y:725:PRO:HD3	2.50	0.51
1:Z:453:GLY:N	1:Z:454:THR:HA	2.25	0.51
1:Z:500:TYR:HA	1:Z:503:THR:OG1	2.09	0.51
1:a:482:CYS:SG	1:a:576:TYR:HB2	2.51	0.51
1:a:507:LYS:HA	1:a:517:VAL:HG23	1.92	0.51
1:a:519:PRO:HA	1:a:538:GLY:HA2	1.92	0.51
1:b:286:ARG:HD3	1:b:361:CYS:HB3	1.93	0.51
1:c:507:LYS:HA	1:c:517:VAL:HG23	1.92	0.51
1:c:514:ASP:N	1:c:514:ASP:OD1	2.37	0.51
1:d:287:PHE:O	1:d:290:HIS:N	2.43	0.51
1:d:300:ILE:HD11	1:d:728:THR:HA	1.92	0.51
1:e:701:THR:OG1	1:f:699:GLN:HB2	2.11	0.51
1:f:585:ARG:HG2	1:f:586:GLY:H	1.74	0.51
1:g:526:HIS:CE1	1:g:563:GLU:HB3	2.45	0.51
1:i:482:CYS:SG	1:i:576:TYR:HB2	2.51	0.51
1:j:489:SER:N	1:j:495:ASN:OD1	2.44	0.51
1:m:286:ARG:HD3	1:m:361:CYS:HB3	1.93	0.51
1:m:500:TYR:HA	1:m:503:THR:OG1	2.09	0.51
1:m:558:MET:SD	1:m:725:PRO:HD3	2.50	0.51
1:n:519:PRO:HA	1:n:538:GLY:HA2	1.92	0.51
1:o:558:MET:SD	1:o:725:PRO:HD3	2.50	0.51
1:p:514:ASP:N	1:p:514:ASP:OD1	2.37	0.51
1:q:598:GLN:HE22	1:r:597:THR:HG21	1.76	0.51
1:u:507:LYS:HA	1:u:517:VAL:HG23	1.92	0.51
1:y:526:HIS:CE1	1:y:563:GLU:HB3	2.45	0.51
1:1:526:HIS:CE1	1:1:563:GLU:HB3	2.45	0.51
1:2:489:SER:N	1:2:495:ASN:OD1	2.44	0.51
1:3:482:CYS:SG	1:3:576:TYR:HB2	2.51	0.51
1:4:507:LYS:HA	1:4:517:VAL:HG23	1.92	0.51
1:5:300:ILE:HD11	1:5:728:THR:HA	1.92	0.51
1:6:526:HIS:CE1	1:6:563:GLU:HB3	2.45	0.51
1:7:482:CYS:SG	1:7:576:TYR:HB2	2.51	0.51
1:8:286:ARG:HD3	1:8:361:CYS:HB3	1.93	0.51
1:8:503:THR:N	1:8:504:GLY:HA3	2.25	0.51
1:8:558:MET:SD	1:8:725:PRO:HD3	2.50	0.51
1:A:482:CYS:SG	1:A:576:TYR:HB2	2.51	0.51
1:F:597:THR:HG21	1:Q:598:GLN:HE22	1.76	0.51
1:G:345:ASP:N	1:G:345:ASP:OD1	2.42	0.51
1:G:519:PRO:HA	1:G:538:GLY:HA2	1.92	0.51
1:J:287:PHE:O	1:J:290:HIS:N	2.43	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:286:ARG:HD3	1:M:361:CYS:HB3	1.93	0.51
1:M:519:PRO:HA	1:M:538:GLY:HA2	1.92	0.51
1:M:526:HIS:CE1	1:M:563:GLU:HB3	2.45	0.51
1:N:507:LYS:HA	1:N:517:VAL:HG23	1.92	0.51
1:N:519:PRO:HA	1:N:538:GLY:HA2	1.92	0.51
1:O:585:ARG:HG2	1:O:586:GLY:H	1.74	0.51
1:O:598:GLN:HE22	1:m:597:THR:HG21	1.76	0.51
1:P:482:CYS:SG	1:P:576:TYR:HB2	2.51	0.51
1:S:300:ILE:HD11	1:S:728:THR:HA	1.92	0.51
1:T:526:HIS:CE1	1:T:563:GLU:HB3	2.45	0.51
1:U:489:SER:N	1:U:495:ASN:OD1	2.44	0.51
1:Y:701:THR:OG1	1:Z:699:GLN:HB2	2.09	0.51
1:Z:558:MET:SD	1:Z:725:PRO:HD3	2.50	0.51
1:Z:597:THR:HG21	1:3:598:GLN:HE22	1.76	0.51
1:a:345:ASP:OD1	1:a:345:ASP:N	2.42	0.51
1:d:489:SER:N	1:d:495:ASN:OD1	2.44	0.51
1:e:558:MET:SD	1:e:725:PRO:HD3	2.50	0.51
1:g:286:ARG:HD3	1:g:361:CYS:HB3	1.93	0.51
1:g:482:CYS:SG	1:g:576:TYR:HB2	2.51	0.51
1:l:300:ILE:HD11	1:l:728:THR:HA	1.92	0.51
1:m:304:TRP:CD1	1:m:689:GLU:HA	2.46	0.51
1:n:304:TRP:CD1	1:n:689:GLU:HA	2.46	0.51
1:s:453:GLY:N	1:s:454:THR:HA	2.25	0.51
1:v:489:SER:N	1:v:495:ASN:OD1	2.44	0.51
1:x:482:CYS:SG	1:x:576:TYR:HB2	2.51	0.51
1:2:287:PHE:O	1:2:290:HIS:N	2.43	0.51
1:2:396:GLU:OE1	1:2:396:GLU:N	2.30	0.51
1:5:482:CYS:SG	1:5:576:TYR:HB2	2.51	0.51
1:7:558:MET:SD	1:7:725:PRO:HD3	2.50	0.51
1:8:482:CYS:SG	1:8:576:TYR:HB2	2.51	0.51
1:8:500:TYR:O	1:8:501:SER:OG	2.24	0.51
1:A:558:MET:SD	1:A:725:PRO:HD3	2.50	0.51
1:C:558:MET:SD	1:C:725:PRO:HD3	2.50	0.51
1:C:701:THR:OG1	1:L:699:GLN:HB2	2.10	0.51
1:E:482:CYS:SG	1:E:576:TYR:HB2	2.51	0.51
1:E:526:HIS:CE1	1:E:563:GLU:HB3	2.45	0.51
1:H:286:ARG:HD3	1:H:361:CYS:HB3	1.93	0.51
1:I:507:LYS:HA	1:I:517:VAL:HG23	1.92	0.51
1:I:514:ASP:OD1	1:I:514:ASP:N	2.37	0.51
1:J:526:HIS:CE1	1:J:563:GLU:HB3	2.45	0.51
1:L:345:ASP:N	1:L:345:ASP:OD1	2.42	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:503:THR:N	1:L:504:GLY:HA3	2.25	0.51
1:L:558:MET:SD	1:L:725:PRO:HD3	2.50	0.51
1:N:500:TYR:O	1:N:501:SER:OG	2.24	0.51
1:O:482:CYS:SG	1:O:576:TYR:HB2	2.51	0.51
1:O:489:SER:N	1:O:495:ASN:OD1	2.44	0.51
1:Q:300:ILE:HD11	1:Q:728:THR:HA	1.92	0.51
1:Q:482:CYS:SG	1:Q:576:TYR:HB2	2.51	0.51
1:U:304:TRP:CD1	1:U:689:GLU:HA	2.46	0.51
1:X:482:CYS:SG	1:X:576:TYR:HB2	2.51	0.51
1:Y:304:TRP:CD1	1:Y:689:GLU:HA	2.46	0.51
1:Z:304:TRP:CD1	1:Z:689:GLU:HA	2.46	0.51
1:Z:598:GLN:HE22	1:4:597:THR:HG21	1.76	0.51
1:d:503:THR:N	1:d:504:GLY:HA3	2.25	0.51
1:d:558:MET:SD	1:d:725:PRO:HD3	2.50	0.51
1:g:519:PRO:HA	1:g:538:GLY:HA2	1.92	0.51
1:i:287:PHE:O	1:i:290:HIS:N	2.43	0.51
1:j:558:MET:SD	1:j:725:PRO:HD3	2.50	0.51
1:m:699:GLN:HB2	1:r:701:THR:OG1	2.09	0.51
1:n:558:MET:SD	1:n:725:PRO:HD3	2.50	0.51
1:o:482:CYS:SG	1:o:576:TYR:HB2	2.51	0.51
1:p:304:TRP:CD1	1:p:689:GLU:HA	2.46	0.51
1:p:345:ASP:N	1:p:345:ASP:OD1	2.42	0.51
1:r:304:TRP:CD1	1:r:689:GLU:HA	2.46	0.51
1:r:482:CYS:SG	1:r:576:TYR:HB2	2.51	0.51
1:r:507:LYS:HA	1:r:517:VAL:HG23	1.92	0.51
1:s:286:ARG:HD3	1:s:361:CYS:HB3	1.93	0.51
1:t:519:PRO:HA	1:t:538:GLY:HA2	1.92	0.51
1:t:558:MET:SD	1:t:725:PRO:HD3	2.50	0.51
1:w:598:GLN:HE22	1:x:597:THR:HG21	1.75	0.51
1:2:300:ILE:HD11	1:2:728:THR:HA	1.92	0.51
1:2:558:MET:SD	1:2:725:PRO:HD3	2.50	0.51
1:3:585:ARG:HG2	1:3:586:GLY:H	1.74	0.51
1:4:304:TRP:CD1	1:4:689:GLU:HA	2.46	0.51
1:5:597:THR:HG21	1:7:598:GLN:HE22	1.76	0.51
1:7:526:HIS:CE1	1:7:563:GLU:HB3	2.45	0.51
1:A:300:ILE:HD11	1:A:728:THR:HA	1.92	0.51
1:A:345:ASP:N	1:A:345:ASP:OD1	2.42	0.51
1:C:503:THR:N	1:C:504:GLY:HA3	2.25	0.51
1:C:526:HIS:CE1	1:C:563:GLU:HB3	2.45	0.51
1:F:482:CYS:SG	1:F:576:TYR:HB2	2.51	0.51
1:G:304:TRP:CD1	1:G:689:GLU:HA	2.46	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:453:GLY:N	1:H:454:THR:HA	2.25	0.51
1:I:503:THR:N	1:I:504:GLY:HA3	2.25	0.51
1:J:519:PRO:HA	1:J:538:GLY:HA2	1.92	0.51
1:K:304:TRP:CD1	1:K:689:GLU:HA	2.46	0.51
1:Q:304:TRP:CD1	1:Q:689:GLU:HA	2.46	0.51
1:R:519:PRO:HA	1:R:538:GLY:HA2	1.92	0.51
1:R:558:MET:SD	1:R:725:PRO:HD3	2.50	0.51
1:R:598:GLN:HE22	1:S:597:THR:HG21	1.76	0.51
1:T:598:GLN:HE22	1:d:597:THR:HG21	1.76	0.51
1:V:241:THR:HG21	1:V:291:PHE:CE1	2.44	0.51
1:e:519:PRO:HA	1:e:538:GLY:HA2	1.92	0.51
1:g:287:PHE:O	1:g:290:HIS:N	2.43	0.51
1:i:286:ARG:HD3	1:i:361:CYS:HB3	1.93	0.51
1:i:507:LYS:HA	1:i:517:VAL:HG23	1.92	0.51
1:i:519:PRO:HA	1:i:538:GLY:HA2	1.92	0.51
1:m:453:GLY:N	1:m:454:THR:HA	2.25	0.51
1:n:507:LYS:HA	1:n:517:VAL:HG23	1.92	0.51
1:o:300:ILE:HD11	1:o:728:THR:HA	1.92	0.51
1:p:485:GLN:HE22	1:p:537:SER:HG	1.52	0.51
1:t:300:ILE:HD11	1:t:728:THR:HA	1.92	0.51
1:t:503:THR:N	1:t:504:GLY:HA3	2.25	0.51
1:z:300:ILE:HD11	1:z:728:THR:HA	1.92	0.51
1:3:489:SER:N	1:3:495:ASN:OD1	2.44	0.51
1:5:286:ARG:HD3	1:5:361:CYS:HB3	1.93	0.51
1:6:482:CYS:SG	1:6:576:TYR:HB2	2.51	0.51
1:A:304:TRP:CD1	1:A:689:GLU:HA	2.46	0.50
1:B:519:PRO:HA	1:B:538:GLY:HA2	1.92	0.50
1:D:304:TRP:CD1	1:D:689:GLU:HA	2.46	0.50
1:I:300:ILE:HD11	1:I:728:THR:HA	1.92	0.50
1:J:304:TRP:CD1	1:J:689:GLU:HA	2.46	0.50
1:Q:286:ARG:HD3	1:Q:361:CYS:HB3	1.93	0.50
1:R:300:ILE:HD11	1:R:728:THR:HA	1.92	0.50
1:R:482:CYS:SG	1:R:576:TYR:HB2	2.51	0.50
1:R:597:THR:HG21	1:U:598:GLN:HE22	1.76	0.50
1:V:482:CYS:SG	1:V:576:TYR:HB2	2.51	0.50
1:Y:482:CYS:SG	1:Y:576:TYR:HB2	2.51	0.50
1:b:519:PRO:HA	1:b:538:GLY:HA2	1.92	0.50
1:c:482:CYS:SG	1:c:576:TYR:HB2	2.51	0.50
1:c:503:THR:N	1:c:504:GLY:HA3	2.25	0.50
1:d:482:CYS:SG	1:d:576:TYR:HB2	2.51	0.50
1:f:482:CYS:SG	1:f:576:TYR:HB2	2.51	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:f:558:MET:SD	1:f:725:PRO:HD3	2.50	0.50
1:g:507:LYS:HA	1:g:517:VAL:HG23	1.92	0.50
1:j:304:TRP:CD1	1:j:689:GLU:HA	2.46	0.50
1:j:482:CYS:SG	1:j:576:TYR:HB2	2.51	0.50
1:k:286:ARG:HD3	1:k:361:CYS:HB3	1.93	0.50
1:k:507:LYS:HA	1:k:517:VAL:HG23	1.92	0.50
1:m:598:GLN:HE22	1:n:597:THR:HG21	1.76	0.50
1:o:304:TRP:CD1	1:o:689:GLU:HA	2.46	0.50
1:p:519:PRO:HA	1:p:538:GLY:HA2	1.92	0.50
1:r:489:SER:N	1:r:495:ASN:OD1	2.44	0.50
1:v:304:TRP:CD1	1:v:689:GLU:HA	2.46	0.50
1:w:482:CYS:SG	1:w:576:TYR:HB2	2.51	0.50
1:w:519:PRO:HA	1:w:538:GLY:HA2	1.92	0.50
1:x:304:TRP:CD1	1:x:689:GLU:HA	2.46	0.50
1:y:482:CYS:SG	1:y:576:TYR:HB2	2.51	0.50
1:2:482:CYS:SG	1:2:576:TYR:HB2	2.51	0.50
1:4:482:CYS:SG	1:4:576:TYR:HB2	2.51	0.50
1:5:304:TRP:CD1	1:5:689:GLU:HA	2.46	0.50
1:I:482:CYS:SG	1:I:576:TYR:HB2	2.51	0.50
1:J:345:ASP:N	1:J:345:ASP:OD1	2.42	0.50
1:K:286:ARG:HD3	1:K:361:CYS:HB3	1.93	0.50
1:K:482:CYS:SG	1:K:576:TYR:HB2	2.51	0.50
1:L:526:HIS:CE1	1:L:563:GLU:HB3	2.45	0.50
1:M:304:TRP:CD1	1:M:689:GLU:HA	2.46	0.50
1:O:304:TRP:CD1	1:O:689:GLU:HA	2.46	0.50
1:O:503:THR:N	1:O:504:GLY:HA3	2.25	0.50
1:R:507:LYS:HA	1:R:517:VAL:HG23	1.92	0.50
1:S:503:THR:N	1:S:504:GLY:HA3	2.25	0.50
1:X:304:TRP:CD1	1:X:689:GLU:HA	2.46	0.50
1:Y:286:ARG:HD3	1:Y:361:CYS:HB3	1.93	0.50
1:Y:489:SER:N	1:Y:495:ASN:OD1	2.44	0.50
1:Y:507:LYS:HA	1:Y:517:VAL:HG23	1.92	0.50
1:d:396:GLU:OE1	1:d:396:GLU:N	2.30	0.50
1:f:294:ARG:NH1	1:f:298:ARG:HB2	2.27	0.50
1:h:482:CYS:SG	1:h:576:TYR:HB2	2.51	0.50
1:j:345:ASP:N	1:j:345:ASP:OD1	2.42	0.50
1:l:519:PRO:HA	1:l:538:GLY:HA2	1.92	0.50
1:t:482:CYS:SG	1:t:576:TYR:HB2	2.51	0.50
1:t:507:LYS:HA	1:t:517:VAL:HG23	1.92	0.50
1:u:503:THR:N	1:u:504:GLY:HA3	2.25	0.50
1:1:482:CYS:SG	1:1:576:TYR:HB2	2.51	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:2:286:ARG:HD3	1:2:361:CYS:HB3	1.93	0.50
1:2:503:THR:N	1:2:504:GLY:HA3	2.25	0.50
1:3:345:ASP:OD1	1:3:345:ASP:N	2.42	0.50
1:7:286:ARG:HD3	1:7:361:CYS:HB3	1.93	0.50
1:A:294:ARG:NH1	1:A:298:ARG:HB2	2.27	0.50
1:A:598:GLN:HE22	1:G:597:THR:HG21	1.76	0.50
1:C:525:SER:OG	1:C:561:ASP:OD1	2.16	0.50
1:D:286:ARG:HD3	1:D:361:CYS:HB3	1.93	0.50
1:E:489:SER:N	1:E:495:ASN:OD1	2.44	0.50
1:G:287:PHE:O	1:G:290:HIS:N	2.43	0.50
1:G:598:GLN:HE22	1:I:597:THR:HG21	1.76	0.50
1:N:598:GLN:HE22	1:P:597:THR:HG21	1.76	0.50
1:O:507:LYS:HA	1:O:517:VAL:HG23	1.92	0.50
1:Q:345:ASP:OD1	1:Q:345:ASP:N	2.42	0.50
1:S:287:PHE:O	1:S:290:HIS:N	2.43	0.50
1:T:482:CYS:SG	1:T:576:TYR:HB2	2.51	0.50
1:U:482:CYS:SG	1:U:576:TYR:HB2	2.51	0.50
1:X:396:GLU:OE1	1:X:396:GLU:N	2.30	0.50
1:b:304:TRP:CD1	1:b:689:GLU:HA	2.46	0.50
1:b:396:GLU:OE1	1:b:396:GLU:N	2.30	0.50
1:c:304:TRP:CD1	1:c:689:GLU:HA	2.46	0.50
1:c:597:THR:HG21	1:p:598:GLN:HE22	1.76	0.50
1:e:241:THR:HG21	1:e:291:PHE:CE1	2.44	0.50
1:f:304:TRP:CD1	1:f:689:GLU:HA	2.46	0.50
1:h:286:ARG:HD3	1:h:361:CYS:HB3	1.93	0.50
1:h:507:LYS:HA	1:h:517:VAL:HG23	1.92	0.50
1:j:294:ARG:NH1	1:j:298:ARG:HB2	2.27	0.50
1:l:294:ARG:NH1	1:l:298:ARG:HB2	2.27	0.50
1:n:482:CYS:SG	1:n:576:TYR:HB2	2.51	0.50
1:o:294:ARG:NH1	1:o:298:ARG:HB2	2.27	0.50
1:s:304:TRP:CD1	1:s:689:GLU:HA	2.46	0.50
1:s:482:CYS:SG	1:s:576:TYR:HB2	2.51	0.50
1:t:286:ARG:HD3	1:t:361:CYS:HB3	1.93	0.50
1:w:241:THR:HG21	1:w:291:PHE:CE1	2.44	0.50
1:y:241:THR:HG21	1:y:291:PHE:CE1	2.44	0.50
1:z:482:CYS:SG	1:z:576:TYR:HB2	2.51	0.50
1:1:425:ALA:HB3	1:2:389:ARG:HH22	1.77	0.50
1:3:304:TRP:CD1	1:3:689:GLU:HA	2.46	0.50
1:3:503:THR:N	1:3:504:GLY:HA3	2.25	0.50
1:3:507:LYS:HA	1:3:517:VAL:HG23	1.92	0.50
1:4:489:SER:N	1:4:495:ASN:OD1	2.44	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:4:558:MET:SD	1:4:725:PRO:HD3	2.50	0.50
1:5:598:GLN:HE22	1:6:597:THR:HG21	1.76	0.50
1:7:489:SER:N	1:7:495:ASN:OD1	2.44	0.50
1:8:654:PRO:HB3	1:8:666:PHE:HE2	1.77	0.50
1:B:304:TRP:CD1	1:B:689:GLU:HA	2.46	0.50
1:B:598:GLN:HE22	1:J:597:THR:HG21	1.76	0.50
1:D:482:CYS:SG	1:D:576:TYR:HB2	2.51	0.50
1:D:558:MET:SD	1:D:725:PRO:HD3	2.50	0.50
1:E:286:ARG:HD3	1:E:361:CYS:HB3	1.93	0.50
1:E:304:TRP:CD1	1:E:689:GLU:HA	2.46	0.50
1:E:598:GLN:HE22	1:Q:597:THR:HG21	1.76	0.50
1:F:654:PRO:HB3	1:F:666:PHE:HE2	1.77	0.50
1:H:304:TRP:CD1	1:H:689:GLU:HA	2.46	0.50
1:I:294:ARG:NH1	1:I:298:ARG:HB2	2.27	0.50
1:I:304:TRP:CD1	1:I:689:GLU:HA	2.46	0.50
1:J:300:ILE:HD11	1:J:728:THR:HA	1.92	0.50
1:K:496:ASN:HD21	1:8:589:GLN:HA	1.75	0.50
1:K:558:MET:SD	1:K:725:PRO:HD3	2.50	0.50
1:L:241:THR:HG21	1:L:291:PHE:CE1	2.44	0.50
1:N:503:THR:N	1:N:504:GLY:HA3	2.25	0.50
1:O:345:ASP:N	1:O:345:ASP:OD1	2.42	0.50
1:Q:489:SER:N	1:Q:495:ASN:OD1	2.44	0.50
1:R:286:ARG:HD3	1:R:361:CYS:HB3	1.93	0.50
1:T:300:ILE:HD11	1:T:728:THR:HA	1.92	0.50
1:V:483:TYR:OH	1:V:506:THR:OG1	2.27	0.50
1:X:294:ARG:NH1	1:X:298:ARG:HB2	2.27	0.50
1:X:597:THR:HG21	1:e:598:GLN:HE22	1.76	0.50
1:Z:622:PRO:HB3	1:3:735:LEU:HD21	1.94	0.50
1:a:304:TRP:CD1	1:a:689:GLU:HA	2.46	0.50
1:c:300:ILE:HD11	1:c:728:THR:HA	1.92	0.50
1:d:286:ARG:HD3	1:d:361:CYS:HB3	1.93	0.50
1:e:482:CYS:SG	1:e:576:TYR:HB2	2.51	0.50
1:g:708:VAL:HB	1:1:385:GLN:NE2	2.26	0.50
1:k:304:TRP:CD1	1:k:689:GLU:HA	2.46	0.50
1:k:482:CYS:SG	1:k:576:TYR:HB2	2.51	0.50
1:n:489:SER:N	1:n:495:ASN:OD1	2.44	0.50
1:p:294:ARG:NH1	1:p:298:ARG:HB2	2.27	0.50
1:r:286:ARG:HD3	1:r:361:CYS:HB3	1.93	0.50
1:x:294:ARG:NH1	1:x:298:ARG:HB2	2.27	0.50
1:z:294:ARG:NH1	1:z:298:ARG:HB2	2.27	0.50
1:z:519:PRO:HA	1:z:538:GLY:HA2	1.92	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1:300:ILE:HD11	1:1:728:THR:HA	1.92	0.50
1:4:241:THR:HG21	1:4:291:PHE:CE1	2.44	0.50
1:5:345:ASP:OD1	1:5:345:ASP:N	2.42	0.50
1:6:300:ILE:HD11	1:6:728:THR:HA	1.92	0.50
1:A:286:ARG:HD3	1:A:361:CYS:HB3	1.93	0.50
1:C:304:TRP:CD1	1:C:689:GLU:HA	2.46	0.50
1:C:489:SER:N	1:C:495:ASN:OD1	2.44	0.50
1:H:482:CYS:SG	1:H:576:TYR:HB2	2.51	0.50
1:L:304:TRP:CD1	1:L:689:GLU:HA	2.46	0.50
1:L:489:SER:N	1:L:495:ASN:OD1	2.44	0.50
1:P:654:PRO:HB3	1:P:666:PHE:HE2	1.77	0.50
1:T:519:PRO:HA	1:T:538:GLY:HA2	1.92	0.50
1:U:294:ARG:NH1	1:U:298:ARG:HB2	2.27	0.50
1:W:294:ARG:NH1	1:W:298:ARG:HB2	2.27	0.50
1:c:483:TYR:HH	1:c:506:THR:HG1	1.52	0.50
1:c:519:PRO:HA	1:c:538:GLY:HA2	1.92	0.50
1:e:654:PRO:HB3	1:e:666:PHE:HE2	1.77	0.50
1:f:345:ASP:OD1	1:f:345:ASP:N	2.42	0.50
1:h:304:TRP:CD1	1:h:689:GLU:HA	2.46	0.50
1:j:654:PRO:HB3	1:j:666:PHE:HE2	1.77	0.50
1:l:287:PHE:O	1:l:290:HIS:N	2.43	0.50
1:m:654:PRO:HB3	1:m:666:PHE:HE2	1.77	0.50
1:o:286:ARG:HD3	1:o:361:CYS:HB3	1.93	0.50
1:o:304:TRP:O	1:o:423:SER:OG	2.25	0.50
1:o:345:ASP:N	1:o:345:ASP:OD1	2.42	0.50
1:o:598:GLN:HE22	1:p:597:THR:HG21	1.77	0.50
1:p:287:PHE:O	1:p:290:HIS:N	2.43	0.50
1:q:294:ARG:NH1	1:q:298:ARG:HB2	2.27	0.50
1:s:287:PHE:O	1:s:290:HIS:N	2.43	0.50
1:t:598:GLN:HE22	1:u:597:THR:HG21	1.76	0.50
1:t:654:PRO:HB3	1:t:666:PHE:HE2	1.77	0.50
1:u:287:PHE:O	1:u:290:HIS:N	2.43	0.50
1:u:598:GLN:HE22	1:v:597:THR:HG21	1.77	0.50
1:w:286:ARG:HD3	1:w:361:CYS:HB3	1.93	0.50
1:w:654:PRO:HB3	1:w:666:PHE:HE2	1.77	0.50
1:x:396:GLU:OE1	1:x:396:GLU:N	2.30	0.50
1:y:294:ARG:NH1	1:y:298:ARG:HB2	2.27	0.50
1:z:503:THR:N	1:z:504:GLY:HA3	2.25	0.50
1:1:489:SER:N	1:1:495:ASN:OD1	2.44	0.50
1:1:519:PRO:HA	1:1:538:GLY:HA2	1.92	0.50
1:5:241:THR:HG21	1:5:291:PHE:CE1	2.44	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:5:489:SER:N	1:5:495:ASN:OD1	2.44	0.50
1:7:304:TRP:CD1	1:7:689:GLU:HA	2.46	0.50
1:A:304:TRP:O	1:A:423:SER:OG	2.25	0.50
1:A:597:THR:HG21	1:I:598:GLN:HE22	1.77	0.50
1:C:241:THR:HG21	1:C:291:PHE:CE1	2.44	0.50
1:E:287:PHE:O	1:E:290:HIS:N	2.43	0.50
1:E:294:ARG:NH1	1:E:298:ARG:HB2	2.27	0.50
1:F:300:ILE:HD11	1:F:728:THR:HA	1.92	0.50
1:G:294:ARG:NH1	1:G:298:ARG:HB2	2.27	0.50
1:G:482:CYS:SG	1:G:576:TYR:HB2	2.51	0.50
1:H:654:PRO:HB3	1:H:666:PHE:HE2	1.77	0.50
1:I:519:PRO:HA	1:I:538:GLY:HA2	1.92	0.50
1:J:483:TYR:HH	1:J:506:THR:HG1	1.55	0.50
1:M:300:ILE:HD11	1:M:728:THR:HA	1.92	0.50
1:N:304:TRP:CD1	1:N:689:GLU:HA	2.46	0.50
1:N:654:PRO:HB3	1:N:666:PHE:HE2	1.77	0.50
1:Q:241:THR:HG21	1:Q:291:PHE:CE1	2.44	0.50
1:R:654:PRO:HB3	1:R:666:PHE:HE2	1.77	0.50
1:U:286:ARG:HD3	1:U:361:CYS:HB3	1.93	0.50
1:V:294:ARG:NH1	1:V:298:ARG:HB2	2.27	0.50
1:Z:482:CYS:SG	1:Z:576:TYR:HB2	2.51	0.50
1:Z:654:PRO:HB3	1:Z:666:PHE:HE2	1.77	0.50
1:a:503:THR:N	1:a:504:GLY:HA3	2.25	0.50
1:a:654:PRO:HB3	1:a:666:PHE:HE2	1.77	0.50
1:b:507:LYS:HA	1:b:517:VAL:HG23	1.92	0.50
1:c:294:ARG:NH1	1:c:298:ARG:HB2	2.27	0.50
1:c:598:GLN:HE22	1:o:597:THR:HG21	1.76	0.50
1:f:654:PRO:HB3	1:f:666:PHE:HE2	1.77	0.50
1:g:489:SER:N	1:g:495:ASN:OD1	2.44	0.50
1:h:654:PRO:HB3	1:h:666:PHE:HE2	1.77	0.50
1:k:654:PRO:HB3	1:k:666:PHE:HE2	1.77	0.50
1:l:482:CYS:SG	1:l:576:TYR:HB2	2.51	0.50
1:m:482:CYS:SG	1:m:576:TYR:HB2	2.51	0.50
1:n:241:THR:HG21	1:n:291:PHE:CE1	2.44	0.50
1:n:345:ASP:OD1	1:n:345:ASP:N	2.42	0.50
1:o:654:PRO:HB3	1:o:666:PHE:HE2	1.77	0.50
1:p:482:CYS:SG	1:p:576:TYR:HB2	2.51	0.50
1:r:598:GLN:HE22	1:s:597:THR:HG21	1.76	0.50
1:s:654:PRO:HB3	1:s:666:PHE:HE2	1.77	0.50
1:u:701:THR:OG1	1:l:699:GLN:HB2	2.10	0.50
1:z:287:PHE:O	1:z:290:HIS:N	2.43	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:6:519:PRO:HA	1:6:538:GLY:HA2	1.92	0.50
1:6:654:PRO:HB3	1:6:666:PHE:HE2	1.77	0.50
1:A:654:PRO:HB3	1:A:666:PHE:HE2	1.77	0.50
1:H:287:PHE:O	1:H:290:HIS:N	2.43	0.50
1:H:345:ASP:OD1	1:H:345:ASP:N	2.42	0.50
1:H:519:PRO:HA	1:H:538:GLY:HA2	1.92	0.50
1:K:389:ARG:HH22	1:8:425:ALA:HB3	1.76	0.50
1:O:654:PRO:HB3	1:O:666:PHE:HE2	1.77	0.50
1:P:485:GLN:HE22	1:P:537:SER:HG	1.53	0.50
1:T:489:SER:N	1:T:495:ASN:OD1	2.44	0.50
1:T:622:PRO:HB3	1:l:735:LEU:HD21	1.94	0.50
1:W:304:TRP:CD1	1:W:689:GLU:HA	2.46	0.50
1:c:489:SER:N	1:c:495:ASN:OD1	2.44	0.50
1:j:286:ARG:HD3	1:j:361:CYS:HB3	1.93	0.50
1:l:503:THR:N	1:l:504:GLY:HA3	2.25	0.50
1:u:294:ARG:NH1	1:u:298:ARG:HB2	2.27	0.50
1:v:294:ARG:NH1	1:v:298:ARG:HB2	2.27	0.50
1:v:482:CYS:SG	1:v:576:TYR:HB2	2.51	0.50
1:w:597:THR:HG21	1:y:598:GLN:HE22	1.76	0.50
1:1:294:ARG:NH1	1:1:298:ARG:HB2	2.27	0.50
1:3:597:THR:HG21	1:4:598:GLN:HE22	1.76	0.50
1:6:598:GLN:HE22	1:7:597:THR:HG21	1.76	0.50
1:7:287:PHE:O	1:7:290:HIS:N	2.43	0.50
1:7:294:ARG:NH1	1:7:298:ARG:HB2	2.27	0.50
1:A:735:LEU:HD21	1:G:622:PRO:HB3	1.94	0.50
1:B:294:ARG:NH1	1:B:298:ARG:HB2	2.27	0.50
1:B:500:TYR:O	1:B:501:SER:OG	2.23	0.50
1:B:507:LYS:HA	1:B:517:VAL:HG23	1.92	0.50
1:C:286:ARG:HD3	1:C:361:CYS:HB3	1.93	0.50
1:D:597:THR:HG21	1:P:598:GLN:HE22	1.76	0.50
1:F:519:PRO:HA	1:F:538:GLY:HA2	1.92	0.50
1:K:500:TYR:O	1:K:501:SER:OG	2.23	0.50
1:L:654:PRO:HB3	1:L:666:PHE:HE2	1.77	0.50
1:M:482:CYS:SG	1:M:576:TYR:HB2	2.51	0.50
1:M:597:THR:HG21	1:b:598:GLN:HE22	1.77	0.50
1:P:294:ARG:NH1	1:P:298:ARG:HB2	2.27	0.50
1:Q:294:ARG:NH1	1:Q:298:ARG:HB2	2.27	0.50
1:S:294:ARG:NH1	1:S:298:ARG:HB2	2.27	0.50
1:T:294:ARG:NH1	1:T:298:ARG:HB2	2.27	0.50
1:W:482:CYS:SG	1:W:576:TYR:HB2	2.51	0.50
1:Y:708:VAL:HB	1:4:385:GLN:NE2	2.27	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:b:294:ARG:NH1	1:b:298:ARG:HB2	2.27	0.50
1:b:500:TYR:O	1:b:501:SER:OG	2.23	0.50
1:c:500:TYR:O	1:c:501:SER:OG	2.23	0.50
1:c:654:PRO:HB3	1:c:666:PHE:HE2	1.77	0.50
1:e:286:ARG:HD3	1:e:361:CYS:HB3	1.93	0.50
1:f:286:ARG:HD3	1:f:361:CYS:HB3	1.93	0.50
1:g:597:THR:HG21	1:h:598:GLN:HE22	1.76	0.50
1:h:708:VAL:HB	1:i:385:GLN:NE2	2.27	0.50
1:i:489:SER:N	1:i:495:ASN:OD1	2.44	0.50
1:j:519:PRO:HA	1:j:538:GLY:HA2	1.92	0.50
1:q:482:CYS:SG	1:q:576:TYR:HB2	2.51	0.50
1:s:519:PRO:HA	1:s:538:GLY:HA2	1.92	0.50
1:u:482:CYS:SG	1:u:576:TYR:HB2	2.51	0.50
1:v:286:ARG:HD3	1:v:361:CYS:HB3	1.93	0.50
1:y:654:PRO:HB3	1:y:666:PHE:HE2	1.77	0.50
1:1:287:PHE:O	1:1:290:HIS:N	2.43	0.50
1:3:654:PRO:HB3	1:3:666:PHE:HE2	1.77	0.50
1:4:345:ASP:N	1:4:345:ASP:OD1	2.42	0.50
1:4:654:PRO:HB3	1:4:666:PHE:HE2	1.77	0.50
1:5:294:ARG:NH1	1:5:298:ARG:HB2	2.27	0.50
1:B:482:CYS:SG	1:B:576:TYR:HB2	2.51	0.50
1:C:654:PRO:HB3	1:C:666:PHE:HE2	1.77	0.50
1:D:294:ARG:NH1	1:D:298:ARG:HB2	2.27	0.50
1:D:654:PRO:HB3	1:D:666:PHE:HE2	1.77	0.50
1:H:597:THR:HG21	1:Y:598:GLN:HE22	1.76	0.50
1:H:598:GLN:HE22	1:W:597:THR:HG21	1.76	0.50
1:I:489:SER:N	1:I:495:ASN:OD1	2.44	0.50
1:I:654:PRO:HB3	1:I:666:PHE:HE2	1.77	0.50
1:K:294:ARG:NH1	1:K:298:ARG:HB2	2.27	0.50
1:L:286:ARG:HD3	1:L:361:CYS:HB3	1.93	0.50
1:S:482:CYS:SG	1:S:576:TYR:HB2	2.51	0.50
1:T:287:PHE:O	1:T:290:HIS:N	2.43	0.50
1:V:598:GLN:HE22	1:e:597:THR:HG21	1.76	0.50
1:X:708:VAL:HB	1:Y:385:GLN:NE2	2.27	0.50
1:b:482:CYS:SG	1:b:576:TYR:HB2	2.51	0.50
1:e:294:ARG:NH1	1:e:298:ARG:HB2	2.27	0.50
1:f:519:PRO:HA	1:f:538:GLY:HA2	1.93	0.50
1:g:294:ARG:NH1	1:g:298:ARG:HB2	2.27	0.50
1:i:294:ARG:NH1	1:i:298:ARG:HB2	2.27	0.50
1:l:241:THR:HG21	1:l:291:PHE:CE1	2.44	0.50
1:q:304:TRP:CD1	1:q:689:GLU:HA	2.46	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:q:597:THR:HG21	1:s:598:GLN:HE22	1.76	0.50
1:s:345:ASP:OD1	1:s:345:ASP:N	2.42	0.50
1:w:294:ARG:NH1	1:w:298:ARG:HB2	2.27	0.50
1:z:241:THR:HG21	1:z:291:PHE:CE1	2.44	0.50
1:z:385:GLN:NE2	1:4:708:VAL:HB	2.27	0.50
1:z:597:THR:HG21	1:2:598:GLN:HE22	1.77	0.50
1:8:294:ARG:NH1	1:8:298:ARG:HB2	2.27	0.50
1:F:286:ARG:HD3	1:F:361:CYS:HB3	1.93	0.49
1:J:482:CYS:SG	1:J:576:TYR:HB2	2.51	0.49
1:K:654:PRO:HB3	1:K:666:PHE:HE2	1.77	0.49
1:O:597:THR:HG21	1:n:598:GLN:HE22	1.76	0.49
1:P:525:SER:OG	1:P:561:ASP:OD1	2.16	0.49
1:R:304:TRP:CD1	1:R:689:GLU:HA	2.46	0.49
1:V:654:PRO:HB3	1:V:666:PHE:HE2	1.77	0.49
1:X:286:ARG:HD3	1:X:361:CYS:HB3	1.93	0.49
1:b:345:ASP:N	1:b:345:ASP:OD1	2.42	0.49
1:d:654:PRO:HB3	1:d:666:PHE:HE2	1.77	0.49
1:f:598:GLN:HE22	1:h:597:THR:HG21	1.76	0.49
1:g:385:GLN:NE2	1:k:708:VAL:HB	2.27	0.49
1:n:287:PHE:O	1:n:290:HIS:N	2.43	0.49
1:n:294:ARG:NH1	1:n:298:ARG:HB2	2.27	0.49
1:n:654:PRO:HB3	1:n:666:PHE:HE2	1.77	0.49
1:r:385:GLN:NE2	1:x:708:VAL:HB	2.27	0.49
1:t:304:TRP:CD1	1:t:689:GLU:HA	2.46	0.49
1:v:708:VAL:HB	1:w:385:GLN:NE2	2.27	0.49
1:x:598:GLN:HE22	1:y:597:THR:HG21	1.76	0.49
1:2:654:PRO:HB3	1:2:666:PHE:HE2	1.77	0.49
1:7:654:PRO:HB3	1:7:666:PHE:HE2	1.77	0.49
1:7:701:THR:OG1	1:8:699:GLN:HB2	2.12	0.49
1:8:485:GLN:HE22	1:8:537:SER:HG	1.53	0.49
1:A:287:PHE:O	1:A:290:HIS:N	2.43	0.49
1:B:345:ASP:N	1:B:345:ASP:OD1	2.42	0.49
1:C:294:ARG:NH1	1:C:298:ARG:HB2	2.27	0.49
1:D:500:TYR:O	1:D:501:SER:OG	2.24	0.49
1:E:597:THR:HG21	1:F:598:GLN:HE22	1.76	0.49
1:Q:519:PRO:HA	1:Q:538:GLY:HA2	1.92	0.49
1:S:286:ARG:HD3	1:S:361:CYS:HB3	1.93	0.49
1:d:294:ARG:NH1	1:d:298:ARG:HB2	2.27	0.49
1:f:492:SER:O	1:g:457:GLN:NE2	2.45	0.49
1:h:241:THR:HG21	1:h:291:PHE:CE1	2.44	0.49
1:i:597:THR:HG21	1:k:598:GLN:HE22	1.77	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:j:598:GLN:HE22	1:k:597:THR:HG21	1.76	0.49
1:m:287:PHE:O	1:m:290:HIS:N	2.43	0.49
1:p:654:PRO:HB3	1:p:666:PHE:HE2	1.77	0.49
1:u:286:ARG:HD3	1:u:361:CYS:HB3	1.93	0.49
1:w:622:PRO:HB3	1:y:735:LEU:HD21	1.94	0.49
1:x:286:ARG:HD3	1:x:361:CYS:HB3	1.93	0.49
1:y:300:ILE:HD11	1:y:728:THR:HA	1.92	0.49
1:z:598:GLN:HE22	1:l:597:THR:HG21	1.77	0.49
1:3:294:ARG:NH1	1:3:298:ARG:HB2	2.27	0.49
1:5:519:PRO:HA	1:5:538:GLY:HA2	1.92	0.49
1:5:735:LEU:HD21	1:6:622:PRO:HB3	1.94	0.49
1:8:304:TRP:CD1	1:8:689:GLU:HA	2.46	0.49
1:B:622:PRO:HB3	1:L:735:LEU:HD21	1.95	0.49
1:D:489:SER:N	1:D:495:ASN:OD1	2.44	0.49
1:F:294:ARG:NH1	1:F:298:ARG:HB2	2.27	0.49
1:G:654:PRO:HB3	1:G:666:PHE:HE2	1.77	0.49
1:J:294:ARG:NH1	1:J:298:ARG:HB2	2.27	0.49
1:K:489:SER:N	1:K:495:ASN:OD1	2.44	0.49
1:K:541:ILE:HD13	1:8:462:PHE:HE1	1.77	0.49
1:K:597:THR:HG21	1:8:598:GLN:HE22	1.77	0.49
1:L:294:ARG:NH1	1:L:298:ARG:HB2	2.27	0.49
1:N:735:LEU:HD21	1:P:622:PRO:HB3	1.95	0.49
1:O:294:ARG:NH1	1:O:298:ARG:HB2	2.27	0.49
1:P:304:TRP:CD1	1:P:689:GLU:HA	2.46	0.49
1:U:345:ASP:N	1:U:345:ASP:OD1	2.42	0.49
1:a:586:GLY:HA2	1:8:496:ASN:HA	1.94	0.49
1:k:241:THR:HG21	1:k:291:PHE:CE1	2.44	0.49
1:o:735:LEU:HD21	1:p:622:PRO:HB3	1.95	0.49
1:p:241:THR:HG21	1:p:291:PHE:CE1	2.44	0.49
1:r:294:ARG:NH1	1:r:298:ARG:HB2	2.27	0.49
1:1:457:GLN:NE2	1:2:492:SER:O	2.44	0.49
1:2:294:ARG:NH1	1:2:298:ARG:HB2	2.27	0.49
1:4:294:ARG:NH1	1:4:298:ARG:HB2	2.27	0.49
1:6:286:ARG:HD3	1:6:361:CYS:HB3	1.93	0.49
1:6:294:ARG:NH1	1:6:298:ARG:HB2	2.27	0.49
1:8:241:THR:HG21	1:8:291:PHE:CE1	2.44	0.49
1:D:287:PHE:O	1:D:290:HIS:N	2.43	0.49
1:E:654:PRO:HB3	1:E:666:PHE:HE2	1.77	0.49
1:G:241:THR:HG21	1:G:291:PHE:CE1	2.44	0.49
1:J:654:PRO:HB3	1:J:666:PHE:HE2	1.77	0.49
1:V:300:ILE:HD11	1:V:728:THR:HA	1.92	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:X:654:PRO:HB3	1:X:666:PHE:HE2	1.77	0.49
1:f:735:LEU:HD21	1:h:622:PRO:HB3	1.94	0.49
1:i:241:THR:HG21	1:i:291:PHE:CE1	2.44	0.49
1:j:708:VAL:HB	1:x:385:GLN:NE2	2.28	0.49
1:m:735:LEU:HD21	1:n:622:PRO:HB3	1.95	0.49
1:q:622:PRO:HB3	1:s:735:LEU:HD21	1.94	0.49
1:q:708:VAL:HB	1:y:385:GLN:NE2	2.28	0.49
1:t:483:TYR:OH	1:t:506:THR:OG1	2.26	0.49
1:z:589:GLN:HA	1:l:496:ASN:ND2	2.28	0.49
1:4:287:PHE:O	1:4:290:HIS:N	2.43	0.49
1:5:500:TYR:O	1:5:501:SER:OG	2.23	0.49
1:C:598:GLN:HE22	1:b:597:THR:HG21	1.76	0.49
1:D:457:GLN:NE2	1:N:492:SER:O	2.46	0.49
1:H:708:VAL:HB	1:I:385:GLN:NE2	2.28	0.49
1:K:287:PHE:O	1:K:290:HIS:N	2.43	0.49
1:M:294:ARG:NH1	1:M:298:ARG:HB2	2.27	0.49
1:W:287:PHE:O	1:W:290:HIS:N	2.43	0.49
1:Y:294:ARG:NH1	1:Y:298:ARG:HB2	2.27	0.49
1:Y:654:PRO:HB3	1:Y:666:PHE:HE2	1.77	0.49
1:Z:287:PHE:O	1:Z:290:HIS:N	2.43	0.49
1:Z:519:PRO:HA	1:Z:538:GLY:HA2	1.92	0.49
1:c:735:LEU:HD21	1:o:622:PRO:HB3	1.94	0.49
1:g:654:PRO:HB3	1:g:666:PHE:HE2	1.77	0.49
1:l:489:SER:N	1:l:495:ASN:OD1	2.44	0.49
1:l:654:PRO:HB3	1:l:666:PHE:HE2	1.77	0.49
1:m:294:ARG:NH1	1:m:298:ARG:HB2	2.27	0.49
1:o:287:PHE:O	1:o:290:HIS:N	2.43	0.49
1:q:287:PHE:O	1:q:290:HIS:N	2.43	0.49
1:r:654:PRO:HB3	1:r:666:PHE:HE2	1.77	0.49
1:v:345:ASP:OD1	1:v:345:ASP:N	2.42	0.49
1:x:654:PRO:HB3	1:x:666:PHE:HE2	1.77	0.49
1:z:654:PRO:HB3	1:z:666:PHE:HE2	1.77	0.49
1:A:622:PRO:HB3	1:I:735:LEU:HD21	1.94	0.49
1:B:597:THR:HG21	1:L:598:GLN:HE22	1.76	0.49
1:G:489:SER:N	1:G:495:ASN:OD1	2.44	0.49
1:G:735:LEU:HD21	1:I:622:PRO:HB3	1.95	0.49
1:H:735:LEU:HD21	1:W:622:PRO:HB3	1.94	0.49
1:M:654:PRO:HB3	1:M:666:PHE:HE2	1.77	0.49
1:N:708:VAL:HB	1:m:385:GLN:NE2	2.27	0.49
1:P:241:THR:HG21	1:P:291:PHE:CE1	2.44	0.49
1:R:385:GLN:NE2	1:V:708:VAL:HB	2.27	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Z:294:ARG:NH1	1:Z:298:ARG:HB2	2.27	0.49
1:c:385:GLN:NE2	1:s:708:VAL:HB	2.28	0.49
1:c:622:PRO:HB3	1:p:735:LEU:HD21	1.95	0.49
1:f:385:GLN:NE2	1:z:708:VAL:HB	2.28	0.49
1:i:654:PRO:HB3	1:i:666:PHE:HE2	1.77	0.49
1:m:519:PRO:HA	1:m:538:GLY:HA2	1.92	0.49
1:t:597:THR:HG21	1:v:598:GLN:HE22	1.77	0.49
1:C:597:THR:HG21	1:M:598:GLN:HE22	1.76	0.49
1:F:385:GLN:NE2	1:R:708:VAL:HB	2.28	0.49
1:F:622:PRO:HB3	1:Q:735:LEU:HD21	1.95	0.49
1:G:286:ARG:HD3	1:G:361:CYS:HB3	1.93	0.49
1:H:294:ARG:NH1	1:H:298:ARG:HB2	2.27	0.49
1:H:489:SER:N	1:H:495:ASN:OD1	2.44	0.49
1:I:452:THR:C	1:I:454:THR:HA	2.38	0.49
1:R:294:ARG:NH1	1:R:298:ARG:HB2	2.27	0.49
1:S:735:LEU:HD21	1:U:622:PRO:HB3	1.94	0.49
1:U:452:THR:C	1:U:454:THR:HA	2.38	0.49
1:g:241:THR:HG21	1:g:291:PHE:CE1	2.44	0.49
1:j:385:GLN:NE2	1:l:708:VAL:HB	2.28	0.49
1:r:287:PHE:O	1:r:290:HIS:N	2.43	0.49
1:s:294:ARG:NH1	1:s:298:ARG:HB2	2.27	0.49
1:y:287:PHE:O	1:y:290:HIS:N	2.43	0.49
1:2:708:VAL:HB	1:3:385:GLN:NE2	2.28	0.49
1:C:735:LEU:HD21	1:b:622:PRO:HB3	1.95	0.49
1:F:489:SER:N	1:F:495:ASN:OD1	2.44	0.49
1:J:598:GLN:HE22	1:L:597:THR:HG21	1.76	0.49
1:O:735:LEU:HD21	1:m:622:PRO:HB3	1.95	0.49
1:V:287:PHE:O	1:V:290:HIS:N	2.43	0.49
1:V:597:THR:HG21	1:X:598:GLN:HE22	1.76	0.49
1:a:294:ARG:NH1	1:a:298:ARG:HB2	2.27	0.49
1:c:452:THR:C	1:c:454:THR:HA	2.38	0.49
1:d:735:LEU:HD21	1:l:622:PRO:HB3	1.94	0.49
1:e:287:PHE:O	1:e:290:HIS:N	2.43	0.49
1:k:294:ARG:NH1	1:k:298:ARG:HB2	2.27	0.49
1:k:385:GLN:NE2	1:w:708:VAL:HB	2.27	0.49
1:n:385:GLN:NE2	1:r:708:VAL:HB	2.28	0.49
1:p:286:ARG:HD3	1:p:361:CYS:HB3	1.93	0.49
1:v:452:THR:C	1:v:454:THR:HA	2.38	0.49
1:w:492:SER:O	1:y:457:GLN:NE2	2.46	0.49
1:y:452:THR:C	1:y:454:THR:HA	2.38	0.49
1:z:489:SER:N	1:z:495:ASN:OD1	2.44	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:4:514:ASP:N	1:4:514:ASP:OD1	2.37	0.49
1:G:387:VAL:HG12	1:G:388:GLY:N	2.28	0.49
1:J:452:THR:C	1:J:454:THR:HA	2.38	0.49
1:N:294:ARG:NH1	1:N:298:ARG:HB2	2.27	0.49
1:O:452:THR:C	1:O:454:THR:HA	2.38	0.49
1:Q:708:VAL:HB	1:S:385:GLN:NE2	2.28	0.49
1:V:452:THR:C	1:V:454:THR:HA	2.38	0.49
1:W:654:PRO:HB3	1:W:666:PHE:HE2	1.77	0.49
1:X:304:TRP:O	1:X:423:SER:OG	2.25	0.49
1:Y:287:PHE:O	1:Y:290:HIS:N	2.43	0.49
1:Z:735:LEU:HD21	1:4:622:PRO:HB3	1.95	0.49
1:e:708:VAL:HB	1:h:385:GLN:NE2	2.27	0.49
1:g:622:PRO:HB3	1:h:735:LEU:HD21	1.95	0.49
1:h:294:ARG:NH1	1:h:298:ARG:HB2	2.27	0.49
1:i:622:PRO:HB3	1:k:735:LEU:HD21	1.95	0.49
1:l:385:GLN:NE2	1:n:708:VAL:HB	2.28	0.49
1:o:489:SER:N	1:o:495:ASN:OD1	2.44	0.49
1:p:387:VAL:HG12	1:p:388:GLY:N	2.28	0.49
1:p:452:THR:C	1:p:454:THR:HA	2.38	0.49
1:p:489:SER:N	1:p:495:ASN:OD1	2.44	0.49
1:s:489:SER:N	1:s:495:ASN:OD1	2.44	0.49
1:t:294:ARG:NH1	1:t:298:ARG:HB2	2.27	0.49
1:u:489:SER:N	1:u:495:ASN:OD1	2.44	0.49
1:u:654:PRO:HB3	1:u:666:PHE:HE2	1.77	0.49
1:6:489:SER:N	1:6:495:ASN:OD1	2.44	0.49
1:8:387:VAL:HG12	1:8:388:GLY:N	2.28	0.49
1:A:387:VAL:HG12	1:A:388:GLY:N	2.28	0.49
1:B:735:LEU:HD21	1:J:622:PRO:HB3	1.94	0.49
1:G:452:THR:C	1:G:454:THR:HA	2.38	0.49
1:J:368:ASP:OD1	1:J:369:VAL:N	2.46	0.49
1:J:735:LEU:HD21	1:L:622:PRO:HB3	1.95	0.49
1:K:387:VAL:HG12	1:K:388:GLY:N	2.28	0.49
1:M:452:THR:C	1:M:454:THR:HA	2.38	0.49
1:M:514:ASP:N	1:M:514:ASP:OD1	2.37	0.49
1:M:622:PRO:HB3	1:b:735:LEU:HD21	1.94	0.49
1:P:387:VAL:HG12	1:P:388:GLY:N	2.28	0.49
1:Q:287:PHE:O	1:Q:290:HIS:N	2.43	0.49
1:T:387:VAL:HG12	1:T:388:GLY:N	2.28	0.49
1:U:654:PRO:HB3	1:U:666:PHE:HE2	1.77	0.49
1:V:387:VAL:HG12	1:V:388:GLY:N	2.28	0.49
1:W:457:GLN:NE2	1:Y:492:SER:O	2.46	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:W:489:SER:N	1:W:495:ASN:OD1	2.44	0.49
1:W:735:LEU:HD21	1:Y:622:PRO:HB3	1.95	0.49
1:X:368:ASP:OD1	1:X:369:VAL:N	2.46	0.49
1:X:452:THR:C	1:X:454:THR:HA	2.38	0.49
1:a:452:THR:C	1:a:454:THR:HA	2.38	0.49
1:d:241:THR:HG21	1:d:291:PHE:CE1	2.44	0.49
1:d:452:THR:C	1:d:454:THR:HA	2.38	0.49
1:d:457:GLN:NE2	1:l:492:SER:O	2.46	0.49
1:e:452:THR:C	1:e:454:THR:HA	2.38	0.49
1:j:287:PHE:O	1:j:290:HIS:N	2.43	0.49
1:n:452:THR:C	1:n:454:THR:HA	2.38	0.49
1:n:514:ASP:OD1	1:n:514:ASP:N	2.37	0.49
1:o:387:VAL:HG12	1:o:388:GLY:N	2.28	0.49
1:o:708:VAL:HB	1:7:385:GLN:NE2	2.28	0.49
1:q:457:GLN:NE2	1:r:492:SER:O	2.46	0.49
1:q:654:PRO:HB3	1:q:666:PHE:HE2	1.77	0.49
1:q:735:LEU:HD21	1:r:622:PRO:HB3	1.95	0.49
1:u:708:VAL:HB	1:2:385:GLN:NE2	2.27	0.49
1:v:654:PRO:HB3	1:v:666:PHE:HE2	1.77	0.49
1:w:287:PHE:O	1:w:290:HIS:N	2.43	0.49
1:x:452:THR:C	1:x:454:THR:HA	2.38	0.49
1:x:457:GLN:NE2	1:y:492:SER:O	2.46	0.49
1:y:368:ASP:OD1	1:y:369:VAL:N	2.46	0.49
1:3:452:THR:C	1:3:454:THR:HA	2.38	0.49
1:4:452:THR:C	1:4:454:THR:HA	2.38	0.49
1:B:385:GLN:NE2	1:C:708:VAL:HB	2.28	0.48
1:C:385:GLN:NE2	1:D:708:VAL:HB	2.27	0.48
1:C:387:VAL:HG12	1:C:388:GLY:N	2.28	0.48
1:C:622:PRO:HB3	1:M:735:LEU:HD21	1.95	0.48
1:D:387:VAL:HG12	1:D:388:GLY:N	2.28	0.48
1:D:622:PRO:HB3	1:P:735:LEU:HD21	1.95	0.48
1:E:735:LEU:HD21	1:Q:622:PRO:HB3	1.94	0.48
1:K:457:GLN:NE2	1:a:492:SER:O	2.46	0.48
1:L:452:THR:C	1:L:454:THR:HA	2.38	0.48
1:M:368:ASP:OD1	1:M:369:VAL:N	2.46	0.48
1:N:452:THR:C	1:N:454:THR:HA	2.38	0.48
1:P:708:VAL:HB	1:Q:385:GLN:NE2	2.28	0.48
1:S:489:SER:N	1:S:495:ASN:OD1	2.44	0.48
1:S:654:PRO:HB3	1:S:666:PHE:HE2	1.77	0.48
1:U:708:VAL:HB	1:e:385:GLN:NE2	2.28	0.48
1:V:368:ASP:OD1	1:V:369:VAL:N	2.46	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:f:241:THR:HG21	1:f:291:PHE:CE1	2.44	0.48
1:f:368:ASP:OD1	1:f:369:VAL:N	2.46	0.48
1:m:708:VAL:HB	1:s:385:GLN:NE2	2.28	0.48
1:q:489:SER:N	1:q:495:ASN:OD1	2.44	0.48
1:t:452:THR:C	1:t:454:THR:HA	2.38	0.48
1:u:385:GLN:NE2	1:5:708:VAL:HB	2.28	0.48
1:w:452:THR:C	1:w:454:THR:HA	2.38	0.48
1:x:368:ASP:OD1	1:x:369:VAL:N	2.46	0.48
1:y:387:VAL:HG12	1:y:388:GLY:N	2.28	0.48
1:4:368:ASP:OD1	1:4:369:VAL:N	2.46	0.48
1:A:489:SER:N	1:A:495:ASN:OD1	2.44	0.48
1:C:452:THR:C	1:C:454:THR:HA	2.38	0.48
1:E:241:THR:HG21	1:E:291:PHE:CE1	2.44	0.48
1:H:396:GLU:OE1	1:H:396:GLU:N	2.30	0.48
1:J:514:ASP:N	1:J:514:ASP:OD1	2.37	0.48
1:L:387:VAL:HG12	1:L:388:GLY:N	2.28	0.48
1:N:457:GLN:NE2	1:P:492:SER:O	2.46	0.48
1:O:622:PRO:HB3	1:n:735:LEU:HD21	1.94	0.48
1:R:452:THR:C	1:R:454:THR:HA	2.38	0.48
1:R:622:PRO:HB3	1:U:735:LEU:HD21	1.95	0.48
1:S:708:VAL:HB	1:d:385:GLN:NE2	2.28	0.48
1:V:489:SER:N	1:V:495:ASN:OD1	2.44	0.48
1:X:492:SER:O	1:e:457:GLN:NE2	2.46	0.48
1:Z:368:ASP:OD1	1:Z:369:VAL:N	2.46	0.48
1:f:287:PHE:O	1:f:290:HIS:N	2.43	0.48
1:h:452:THR:C	1:h:454:THR:HA	2.38	0.48
1:m:368:ASP:OD1	1:m:369:VAL:N	2.46	0.48
1:n:368:ASP:OD1	1:n:369:VAL:N	2.46	0.48
1:o:241:THR:HG21	1:o:291:PHE:CE1	2.44	0.48
1:t:708:VAL:HB	1:6:385:GLN:NE2	2.28	0.48
1:u:368:ASP:OD1	1:u:369:VAL:N	2.46	0.48
1:u:452:THR:C	1:u:454:THR:HA	2.38	0.48
1:w:457:GLN:NE2	1:x:492:SER:O	2.46	0.48
1:x:304:TRP:O	1:x:423:SER:OG	2.25	0.48
1:1:387:VAL:HG12	1:1:388:GLY:N	2.28	0.48
1:2:241:THR:HG21	1:2:291:PHE:CE1	2.44	0.48
1:2:452:THR:C	1:2:454:THR:HA	2.38	0.48
1:3:241:THR:HG21	1:3:291:PHE:CE1	2.44	0.48
1:3:368:ASP:OD1	1:3:369:VAL:N	2.46	0.48
1:5:287:PHE:O	1:5:290:HIS:N	2.43	0.48
1:6:735:LEU:HD21	1:7:622:PRO:HB3	1.94	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:241:THR:HG21	1:A:291:PHE:CE1	2.44	0.48
1:A:368:ASP:OD1	1:A:369:VAL:N	2.46	0.48
1:A:385:GLN:NE2	1:B:708:VAL:HB	2.28	0.48
1:H:385:GLN:NE2	1:Z:708:VAL:HB	2.28	0.48
1:L:708:VAL:HB	1:b:385:GLN:NE2	2.28	0.48
1:O:287:PHE:O	1:O:290:HIS:N	2.43	0.48
1:O:387:VAL:HG12	1:O:388:GLY:N	2.28	0.48
1:R:457:GLN:NE2	1:S:492:SER:O	2.46	0.48
1:S:368:ASP:OD1	1:S:369:VAL:N	2.46	0.48
1:S:452:THR:C	1:S:454:THR:HA	2.38	0.48
1:T:385:GLN:NE2	1:i:708:VAL:HB	2.28	0.48
1:Y:452:THR:C	1:Y:454:THR:HA	2.38	0.48
1:Z:385:GLN:NE2	1:a:708:VAL:HB	2.27	0.48
1:Z:452:THR:C	1:Z:454:THR:HA	2.38	0.48
1:b:708:VAL:HB	1:o:385:GLN:NE2	2.28	0.48
1:f:452:THR:C	1:f:454:THR:HA	2.38	0.48
1:j:368:ASP:OD1	1:j:369:VAL:N	2.46	0.48
1:k:452:THR:C	1:k:454:THR:HA	2.38	0.48
1:o:368:ASP:OD1	1:o:369:VAL:N	2.46	0.48
1:t:735:LEU:HD21	1:u:622:PRO:HB3	1.94	0.48
1:x:735:LEU:HD21	1:y:622:PRO:HB3	1.95	0.48
1:y:489:SER:N	1:y:495:ASN:OD1	2.44	0.48
1:E:622:PRO:HB3	1:F:735:LEU:HD21	1.94	0.48
1:F:708:VAL:HB	1:G:385:GLN:NE2	2.28	0.48
1:O:368:ASP:OD1	1:O:369:VAL:N	2.46	0.48
1:Q:387:VAL:HG12	1:Q:388:GLY:N	2.28	0.48
1:R:387:VAL:HG12	1:R:388:GLY:N	2.28	0.48
1:T:654:PRO:HB3	1:T:666:PHE:HE2	1.77	0.48
1:T:735:LEU:HD21	1:d:622:PRO:HB3	1.95	0.48
1:X:387:VAL:HG12	1:X:388:GLY:N	2.28	0.48
1:a:368:ASP:OD1	1:a:369:VAL:N	2.46	0.48
1:j:241:THR:HG21	1:j:291:PHE:CE1	2.44	0.48
1:l:368:ASP:OD1	1:l:369:VAL:N	2.46	0.48
1:m:452:THR:C	1:m:454:THR:HA	2.38	0.48
1:q:368:ASP:OD1	1:q:369:VAL:N	2.46	0.48
1:r:452:THR:C	1:r:454:THR:HA	2.38	0.48
1:z:368:ASP:OD1	1:z:369:VAL:N	2.46	0.48
1:1:654:PRO:HB3	1:1:666:PHE:HE2	1.77	0.48
1:3:387:VAL:HG12	1:3:388:GLY:N	2.28	0.48
1:3:492:SER:O	1:4:457:GLN:NE2	2.46	0.48
1:5:387:VAL:HG12	1:5:388:GLY:N	2.28	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:5:457:GLN:NE2	1:6:492:SER:O	2.46	0.48
1:5:492:SER:O	1:7:457:GLN:NE2	2.46	0.48
1:B:457:GLN:NE2	1:J:492:SER:O	2.47	0.48
1:D:368:ASP:OD1	1:D:369:VAL:N	2.46	0.48
1:E:452:THR:C	1:E:454:THR:HA	2.38	0.48
1:F:387:VAL:HG12	1:F:388:GLY:N	2.28	0.48
1:F:492:SER:O	1:Q:457:GLN:NE2	2.46	0.48
1:I:708:VAL:HB	1:J:385:GLN:NE2	2.28	0.48
1:J:387:VAL:HG12	1:J:388:GLY:N	2.28	0.48
1:K:368:ASP:OD1	1:K:369:VAL:N	2.46	0.48
1:N:368:ASP:OD1	1:N:369:VAL:N	2.46	0.48
1:O:241:THR:HG21	1:O:291:PHE:CE1	2.44	0.48
1:O:385:GLN:NE2	1:d:708:VAL:HB	2.29	0.48
1:R:492:SER:O	1:U:457:GLN:NE2	2.46	0.48
1:T:368:ASP:OD1	1:T:369:VAL:N	2.46	0.48
1:U:287:PHE:O	1:U:290:HIS:N	2.43	0.48
1:U:368:ASP:OD1	1:U:369:VAL:N	2.46	0.48
1:Y:525:SER:OG	1:Y:561:ASP:OD1	2.16	0.48
1:Z:387:VAL:HG12	1:Z:388:GLY:N	2.28	0.48
1:c:368:ASP:OD1	1:c:369:VAL:N	2.46	0.48
1:f:457:GLN:NE2	1:h:492:SER:O	2.46	0.48
1:j:452:THR:C	1:j:454:THR:HA	2.38	0.48
1:l:396:GLU:OE1	1:l:396:GLU:N	2.30	0.48
1:m:387:VAL:HG12	1:m:388:GLY:N	2.28	0.48
1:s:387:VAL:HG12	1:s:388:GLY:N	2.28	0.48
1:t:368:ASP:OD1	1:t:369:VAL:N	2.46	0.48
1:t:387:VAL:HG12	1:t:388:GLY:N	2.28	0.48
1:t:622:PRO:HB3	1:v:735:LEU:HD21	1.95	0.48
1:x:387:VAL:HG12	1:x:388:GLY:N	2.28	0.48
1:z:452:THR:C	1:z:454:THR:HA	2.38	0.48
1:1:368:ASP:OD1	1:1:369:VAL:N	2.46	0.48
1:6:368:ASP:OD1	1:6:369:VAL:N	2.46	0.48
1:6:387:VAL:HG12	1:6:388:GLY:N	2.28	0.48
1:7:241:THR:HG21	1:7:291:PHE:CE1	2.44	0.48
1:7:452:THR:C	1:7:454:THR:HA	2.38	0.48
1:B:287:PHE:O	1:B:290:HIS:N	2.43	0.48
1:D:501:SER:O	1:D:502:TRP:HB3	2.14	0.48
1:F:368:ASP:OD1	1:F:369:VAL:N	2.46	0.48
1:G:368:ASP:OD1	1:G:369:VAL:N	2.46	0.48
1:I:368:ASP:OD1	1:I:369:VAL:N	2.46	0.48
1:K:501:SER:O	1:K:502:TRP:HB3	2.14	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:387:VAL:HG12	1:M:388:GLY:N	2.28	0.48
1:Q:501:SER:O	1:Q:502:TRP:HB3	2.14	0.48
1:R:368:ASP:OD1	1:R:369:VAL:N	2.46	0.48
1:R:735:LEU:HD21	1:S:622:PRO:HB3	1.95	0.48
1:S:387:VAL:HG12	1:S:388:GLY:N	2.28	0.48
1:V:385:GLN:NE2	1:W:708:VAL:HB	2.29	0.48
1:V:457:GLN:NE2	1:e:492:SER:O	2.47	0.48
1:W:368:ASP:OD1	1:W:369:VAL:N	2.46	0.48
1:W:452:THR:C	1:W:454:THR:HA	2.38	0.48
1:b:287:PHE:O	1:b:290:HIS:N	2.43	0.48
1:g:492:SER:O	1:h:457:GLN:NE2	2.47	0.48
1:h:368:ASP:OD1	1:h:369:VAL:N	2.46	0.48
1:i:735:LEU:HD21	1:j:622:PRO:HB3	1.94	0.48
1:j:735:LEU:HD21	1:k:622:PRO:HB3	1.95	0.48
1:k:387:VAL:HG12	1:k:388:GLY:N	2.28	0.48
1:l:452:THR:C	1:l:454:THR:HA	2.38	0.48
1:p:368:ASP:OD1	1:p:369:VAL:N	2.46	0.48
1:p:708:VAL:HB	1:q:385:GLN:NE2	2.28	0.48
1:u:387:VAL:HG12	1:u:388:GLY:N	2.28	0.48
1:v:368:ASP:OD1	1:v:369:VAL:N	2.46	0.48
1:w:735:LEU:HD21	1:x:622:PRO:HB3	1.95	0.48
1:3:287:PHE:O	1:3:290:HIS:N	2.43	0.48
1:3:371:MET:CE	1:8:661:PHE:HA	2.38	0.48
1:3:622:PRO:HB3	1:4:735:LEU:HD21	1.95	0.48
1:B:387:VAL:HG12	1:B:388:GLY:N	2.28	0.48
1:E:368:ASP:OD1	1:E:369:VAL:N	2.46	0.48
1:F:287:PHE:O	1:F:290:HIS:N	2.43	0.48
1:H:387:VAL:HG12	1:H:388:GLY:N	2.28	0.48
1:K:708:VAL:HB	1:L:385:GLN:NE2	2.28	0.48
1:L:368:ASP:OD1	1:L:369:VAL:N	2.46	0.48
1:L:501:SER:O	1:L:502:TRP:HB3	2.14	0.48
1:P:368:ASP:OD1	1:P:369:VAL:N	2.46	0.48
1:S:457:GLN:NE2	1:U:492:SER:O	2.47	0.48
1:S:501:SER:O	1:S:502:TRP:HB3	2.14	0.48
1:U:501:SER:O	1:U:502:TRP:HB3	2.14	0.48
1:V:622:PRO:HB3	1:X:735:LEU:HD21	1.95	0.48
1:V:735:LEU:HD21	1:e:622:PRO:HB3	1.95	0.48
1:Y:387:VAL:HG12	1:Y:388:GLY:N	2.28	0.48
1:b:654:PRO:HB3	1:b:666:PHE:HE2	1.77	0.48
1:c:387:VAL:HG12	1:c:388:GLY:N	2.28	0.48
1:e:371:MET:CE	1:h:661:PHE:HA	2.37	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:h:387:VAL:HG12	1:h:388:GLY:N	2.28	0.48
1:k:368:ASP:OD1	1:k:369:VAL:N	2.46	0.48
1:r:387:VAL:HG12	1:r:388:GLY:N	2.28	0.48
1:v:287:PHE:O	1:v:290:HIS:N	2.43	0.48
1:5:501:SER:O	1:5:502:TRP:HB3	2.14	0.48
1:6:452:THR:C	1:6:454:THR:HA	2.38	0.48
1:7:368:ASP:OD1	1:7:369:VAL:N	2.46	0.48
1:8:368:ASP:OD1	1:8:369:VAL:N	2.46	0.48
1:A:708:VAL:HB	1:E:385:GLN:NE2	2.29	0.48
1:B:368:ASP:OD1	1:B:369:VAL:N	2.46	0.48
1:C:368:ASP:OD1	1:C:369:VAL:N	2.46	0.48
1:C:501:SER:O	1:C:502:TRP:HB3	2.14	0.48
1:G:501:SER:O	1:G:502:TRP:HB3	2.14	0.48
1:I:387:VAL:HG12	1:I:388:GLY:N	2.28	0.48
1:N:387:VAL:HG12	1:N:388:GLY:N	2.28	0.48
1:N:501:SER:O	1:N:502:TRP:HB3	2.14	0.48
1:O:492:SER:O	1:n:457:GLN:NE2	2.47	0.48
1:P:501:SER:O	1:P:502:TRP:HB3	2.14	0.48
1:X:622:PRO:HB3	1:e:735:LEU:HD21	1.95	0.48
1:Z:427:SER:HB3	1:Z:732:THR:CG2	2.44	0.48
1:Z:492:SER:O	1:3:457:GLN:NE2	2.46	0.48
1:a:387:VAL:HG12	1:a:388:GLY:N	2.28	0.48
1:b:368:ASP:OD1	1:b:369:VAL:N	2.46	0.48
1:b:387:VAL:HG12	1:b:388:GLY:N	2.28	0.48
1:e:387:VAL:HG12	1:e:388:GLY:N	2.28	0.48
1:f:501:SER:O	1:f:502:TRP:HB3	2.14	0.48
1:f:622:PRO:HB3	1:g:735:LEU:HD21	1.95	0.48
1:i:457:GLN:NE2	1:j:492:SER:O	2.47	0.48
1:j:501:SER:O	1:j:502:TRP:HB3	2.14	0.48
1:n:387:VAL:HG12	1:n:388:GLY:N	2.28	0.48
1:q:452:THR:C	1:q:454:THR:HA	2.38	0.48
1:r:457:GLN:NE2	1:s:492:SER:O	2.46	0.48
1:s:450:THR:HB	1:s:458:SER:OG	2.14	0.48
1:u:501:SER:O	1:u:502:TRP:HB3	2.14	0.48
1:v:501:SER:O	1:v:502:TRP:HB3	2.14	0.48
1:z:457:GLN:NE2	1:1:492:SER:O	2.46	0.48
1:4:387:VAL:HG12	1:4:388:GLY:N	2.28	0.48
1:5:452:THR:C	1:5:454:THR:HA	2.38	0.48
1:5:622:PRO:HB3	1:7:735:LEU:HD21	1.95	0.48
1:8:501:SER:O	1:8:502:TRP:HB3	2.14	0.48
1:C:492:SER:O	1:M:457:GLN:NE2	2.47	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:452:THR:C	1:F:454:THR:HA	2.38	0.48
1:G:457:GLN:NE2	1:I:492:SER:O	2.47	0.48
1:H:450:THR:HB	1:H:458:SER:OG	2.14	0.48
1:J:450:THR:HB	1:J:458:SER:OG	2.14	0.48
1:J:457:GLN:NE2	1:L:492:SER:O	2.46	0.48
1:K:735:LEU:HD21	1:a:622:PRO:HB3	1.95	0.48
1:M:385:GLN:NE2	1:c:708:VAL:HB	2.29	0.48
1:M:450:THR:HB	1:M:458:SER:OG	2.14	0.48
1:P:489:SER:N	1:P:495:ASN:OD1	2.44	0.48
1:Q:452:THR:C	1:Q:454:THR:HA	2.38	0.48
1:R:501:SER:O	1:R:502:TRP:HB3	2.14	0.48
1:X:385:GLN:NE2	1:f:708:VAL:HB	2.29	0.48
1:c:492:SER:O	1:p:457:GLN:NE2	2.47	0.48
1:d:387:VAL:HG12	1:d:388:GLY:N	2.28	0.48
1:g:387:VAL:HG12	1:g:388:GLY:N	2.28	0.48
1:g:427:SER:HB3	1:g:732:THR:CG2	2.44	0.48
1:i:492:SER:O	1:k:457:GLN:NE2	2.47	0.48
1:l:427:SER:HB3	1:l:732:THR:CG2	2.44	0.48
1:l:501:SER:O	1:l:502:TRP:HB3	2.14	0.48
1:m:450:THR:HB	1:m:458:SER:OG	2.14	0.48
1:p:385:GLN:NE2	1:6:708:VAL:HB	2.28	0.48
1:t:457:GLN:NE2	1:u:492:SER:O	2.47	0.48
1:w:387:VAL:HG12	1:w:388:GLY:N	2.28	0.48
1:y:450:THR:HB	1:y:458:SER:OG	2.14	0.48
1:z:396:GLU:OE1	1:z:396:GLU:N	2.30	0.48
1:z:427:SER:HB3	1:z:732:THR:CG2	2.44	0.48
1:z:501:SER:O	1:z:502:TRP:HB3	2.14	0.48
1:2:387:VAL:HG12	1:2:388:GLY:N	2.28	0.48
1:6:287:PHE:O	1:6:290:HIS:N	2.43	0.48
1:6:500:TYR:O	1:6:501:SER:OG	2.23	0.48
1:A:452:THR:C	1:A:454:THR:HA	2.38	0.48
1:B:654:PRO:HB3	1:B:666:PHE:HE2	1.77	0.48
1:J:396:GLU:OE1	1:J:396:GLU:N	2.30	0.48
1:J:427:SER:HB3	1:J:732:THR:CG2	2.44	0.48
1:M:427:SER:HB3	1:M:732:THR:CG2	2.44	0.48
1:M:492:SER:O	1:b:457:GLN:NE2	2.47	0.48
1:M:708:VAL:HB	1:N:385:GLN:NE2	2.28	0.48
1:N:525:SER:OG	1:N:561:ASP:OD1	2.16	0.48
1:P:452:THR:C	1:P:454:THR:HA	2.38	0.48
1:Q:427:SER:HB3	1:Q:732:THR:CG2	2.44	0.48
1:U:387:VAL:HG12	1:U:388:GLY:N	2.28	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:V:427:SER:HB3	1:V:732:THR:CG2	2.44	0.48
1:V:450:THR:HB	1:V:458:SER:OG	2.14	0.48
1:W:387:VAL:HG12	1:W:388:GLY:N	2.28	0.48
1:Z:450:THR:HB	1:Z:458:SER:OG	2.14	0.48
1:a:501:SER:O	1:a:502:TRP:HB3	2.14	0.48
1:b:501:SER:O	1:b:502:TRP:HB3	2.14	0.48
1:d:450:THR:HB	1:d:458:SER:OG	2.14	0.48
1:i:427:SER:HB3	1:i:732:THR:CG2	2.44	0.48
1:m:427:SER:HB3	1:m:732:THR:CG2	2.44	0.48
1:m:457:GLN:NE2	1:n:492:SER:O	2.46	0.48
1:p:501:SER:O	1:p:502:TRP:HB3	2.14	0.48
1:q:387:VAL:HG12	1:q:388:GLY:N	2.28	0.48
1:t:501:SER:O	1:t:502:TRP:HB3	2.14	0.48
1:v:387:VAL:HG12	1:v:388:GLY:N	2.28	0.48
1:v:500:TYR:O	1:v:501:SER:OG	2.23	0.48
1:y:427:SER:HB3	1:y:732:THR:CG2	2.44	0.48
1:y:501:SER:O	1:y:502:TRP:HB3	2.14	0.48
1:5:427:SER:HB3	1:5:732:THR:CG2	2.44	0.48
1:7:387:VAL:HG12	1:7:388:GLY:N	2.28	0.48
1:C:457:GLN:NE2	1:b:492:SER:O	2.46	0.47
1:D:492:SER:O	1:P:457:GLN:NE2	2.47	0.47
1:D:735:LEU:HD21	1:N:622:PRO:HB3	1.96	0.47
1:H:492:SER:O	1:Y:457:GLN:NE2	2.46	0.47
1:J:489:SER:N	1:J:495:ASN:OD1	2.44	0.47
1:M:396:GLU:OE1	1:M:396:GLU:N	2.30	0.47
1:N:427:SER:HB3	1:N:732:THR:CG2	2.44	0.47
1:O:457:GLN:NE2	1:m:492:SER:O	2.46	0.47
1:Q:371:MET:CE	1:S:661:PHE:HA	2.37	0.47
1:V:501:SER:O	1:V:502:TRP:HB3	2.14	0.47
1:X:427:SER:HB3	1:X:732:THR:CG2	2.44	0.47
1:Y:450:THR:HB	1:Y:458:SER:OG	2.14	0.47
1:a:427:SER:HB3	1:a:732:THR:CG2	2.44	0.47
1:a:735:LEU:HD21	1:8:622:PRO:HB3	1.97	0.47
1:f:387:VAL:HG12	1:f:388:GLY:N	2.28	0.47
1:h:287:PHE:O	1:h:290:HIS:N	2.43	0.47
1:i:387:VAL:HG12	1:i:388:GLY:N	2.28	0.47
1:k:287:PHE:O	1:k:290:HIS:N	2.43	0.47
1:n:500:TYR:O	1:n:501:SER:OG	2.23	0.47
1:o:452:THR:C	1:o:454:THR:HA	2.38	0.47
1:p:450:THR:HB	1:p:458:SER:OG	2.14	0.47
1:s:452:THR:C	1:s:454:THR:HA	2.38	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:x:427:SER:HB3	1:x:732:THR:CG2	2.44	0.47
1:2:450:THR:HB	1:2:458:SER:OG	2.14	0.47
1:B:489:SER:N	1:B:495:ASN:OD1	2.44	0.47
1:B:715:ASP:OD1	1:B:718:GLY:N	2.48	0.47
1:E:387:VAL:HG12	1:E:388:GLY:N	2.28	0.47
1:E:457:GLN:NE2	1:Q:492:SER:O	2.47	0.47
1:E:492:SER:O	1:F:457:GLN:NE2	2.47	0.47
1:G:450:THR:HB	1:G:458:SER:OG	2.14	0.47
1:O:715:ASP:OD1	1:O:718:GLY:N	2.48	0.47
1:Q:654:PRO:HB3	1:Q:666:PHE:HE2	1.77	0.47
1:T:708:VAL:HB	1:U:385:GLN:NE2	2.29	0.47
1:Y:368:ASP:OD1	1:Y:369:VAL:N	2.46	0.47
1:Y:501:SER:O	1:Y:502:TRP:HB3	2.14	0.47
1:a:525:SER:OG	1:a:561:ASP:OD1	2.16	0.47
1:b:715:ASP:OD1	1:b:718:GLY:N	2.48	0.47
1:e:368:ASP:OD1	1:e:369:VAL:N	2.46	0.47
1:h:427:SER:HB3	1:h:732:THR:CG2	2.44	0.47
1:j:457:GLN:NE2	1:k:492:SER:O	2.47	0.47
1:l:387:VAL:HG12	1:l:388:GLY:N	2.28	0.47
1:n:450:THR:HB	1:n:458:SER:OG	2.14	0.47
1:r:368:ASP:OD1	1:r:369:VAL:N	2.46	0.47
1:r:450:THR:HB	1:r:458:SER:OG	2.14	0.47
1:t:385:GLN:NE2	1:y:708:VAL:HB	2.29	0.47
1:u:735:LEU:HD21	1:v:622:PRO:HB3	1.95	0.47
1:w:368:ASP:OD1	1:w:369:VAL:N	2.46	0.47
1:y:345:ASP:OD1	1:y:345:ASP:N	2.42	0.47
1:z:387:VAL:HG12	1:z:388:GLY:N	2.28	0.47
1:1:450:THR:HB	1:1:458:SER:OG	2.14	0.47
1:1:501:SER:O	1:1:502:TRP:HB3	2.14	0.47
1:1:715:ASP:OD1	1:1:718:GLY:N	2.48	0.47
1:4:450:THR:HB	1:4:458:SER:OG	2.14	0.47
1:5:654:PRO:HB3	1:5:666:PHE:HE2	1.77	0.47
1:6:457:GLN:NE2	1:7:492:SER:O	2.47	0.47
1:7:501:SER:O	1:7:502:TRP:HB3	2.14	0.47
1:8:427:SER:HB3	1:8:732:THR:CG2	2.44	0.47
1:8:452:THR:C	1:8:454:THR:HA	2.38	0.47
1:A:457:GLN:NE2	1:G:492:SER:O	2.47	0.47
1:D:427:SER:HB3	1:D:732:THR:CG2	2.44	0.47
1:D:715:ASP:OD1	1:D:718:GLY:N	2.48	0.47
1:E:501:SER:O	1:E:502:TRP:HB3	2.14	0.47
1:H:427:SER:HB3	1:H:732:THR:CG2	2.44	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:452:THR:C	1:H:454:THR:HA	2.38	0.47
1:J:708:VAL:HB	1:a:385:GLN:NE2	2.28	0.47
1:K:427:SER:HB3	1:K:732:THR:CG2	2.44	0.47
1:K:715:ASP:OD1	1:K:718:GLY:N	2.48	0.47
1:P:427:SER:HB3	1:P:732:THR:CG2	2.44	0.47
1:T:501:SER:O	1:T:502:TRP:HB3	2.14	0.47
1:T:715:ASP:OD1	1:T:718:GLY:N	2.48	0.47
1:W:715:ASP:OD1	1:W:718:GLY:N	2.48	0.47
1:Y:544:LYS:O	1:Y:547:SER:OG	2.30	0.47
1:Z:457:GLN:NE2	1:4:492:SER:O	2.47	0.47
1:c:450:THR:HB	1:c:458:SER:OG	2.14	0.47
1:d:501:SER:O	1:d:502:TRP:HB3	2.14	0.47
1:e:427:SER:HB3	1:e:732:THR:CG2	2.44	0.47
1:h:715:ASP:OD1	1:h:718:GLY:N	2.48	0.47
1:i:453:GLY:H	1:i:457:GLN:C	2.23	0.47
1:j:387:VAL:HG12	1:j:388:GLY:N	2.28	0.47
1:k:427:SER:HB3	1:k:732:THR:CG2	2.44	0.47
1:k:661:PHE:HA	1:w:371:MET:CE	2.38	0.47
1:r:501:SER:O	1:r:502:TRP:HB3	2.14	0.47
1:s:427:SER:HB3	1:s:732:THR:CG2	2.44	0.47
1:w:427:SER:HB3	1:w:732:THR:CG2	2.44	0.47
1:3:715:ASP:OD1	1:3:718:GLY:N	2.48	0.47
1:6:427:SER:HB3	1:6:732:THR:CG2	2.44	0.47
1:8:489:SER:N	1:8:495:ASN:OD1	2.44	0.47
1:A:427:SER:HB3	1:A:732:THR:CG2	2.44	0.47
1:A:450:THR:HB	1:A:458:SER:OG	2.14	0.47
1:E:500:TYR:O	1:E:501:SER:OG	2.23	0.47
1:F:427:SER:HB3	1:F:732:THR:CG2	2.44	0.47
1:F:500:TYR:O	1:F:501:SER:OG	2.24	0.47
1:G:708:VAL:HB	1:W:385:GLN:NE2	2.29	0.47
1:H:715:ASP:OD1	1:H:718:GLY:N	2.48	0.47
1:I:427:SER:HB3	1:I:732:THR:CG2	2.44	0.47
1:I:501:SER:O	1:I:502:TRP:HB3	2.14	0.47
1:J:715:ASP:OD1	1:J:718:GLY:N	2.48	0.47
1:K:452:THR:C	1:K:454:THR:HA	2.38	0.47
1:S:450:THR:HB	1:S:458:SER:OG	2.14	0.47
1:T:450:THR:HB	1:T:458:SER:OG	2.14	0.47
1:X:501:SER:O	1:X:502:TRP:HB3	2.14	0.47
1:a:715:ASP:OD1	1:a:718:GLY:N	2.47	0.47
1:c:457:GLN:NE2	1:o:492:SER:O	2.47	0.47
1:g:368:ASP:OD1	1:g:369:VAL:N	2.46	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:h:453:GLY:H	1:h:457:GLN:C	2.23	0.47
1:h:489:SER:N	1:h:495:ASN:OD1	2.44	0.47
1:i:452:THR:C	1:i:454:THR:HA	2.38	0.47
1:k:715:ASP:OD1	1:k:718:GLY:N	2.48	0.47
1:o:427:SER:HB3	1:o:732:THR:CG2	2.44	0.47
1:o:450:THR:HB	1:o:458:SER:OG	2.14	0.47
1:o:457:GLN:NE2	1:p:492:SER:O	2.47	0.47
1:q:715:ASP:OD1	1:q:718:GLY:N	2.48	0.47
1:r:715:ASP:OD1	1:r:718:GLY:N	2.48	0.47
1:s:715:ASP:OD1	1:s:718:GLY:N	2.48	0.47
1:t:450:THR:HB	1:t:458:SER:OG	2.14	0.47
1:x:287:PHE:O	1:x:290:HIS:N	2.43	0.47
1:z:735:LEU:HD21	1:1:622:PRO:HB3	1.96	0.47
1:1:427:SER:HB3	1:1:732:THR:CG2	2.44	0.47
1:1:453:GLY:H	1:1:457:GLN:C	2.23	0.47
1:2:501:SER:O	1:2:502:TRP:HB3	2.14	0.47
1:3:427:SER:HB3	1:3:732:THR:CG2	2.44	0.47
1:3:450:THR:HB	1:3:458:SER:OG	2.14	0.47
1:7:500:TYR:O	1:7:501:SER:OG	2.24	0.47
1:B:492:SER:O	1:L:457:GLN:NE2	2.46	0.47
1:D:452:THR:C	1:D:454:THR:HA	2.38	0.47
1:E:715:ASP:OD1	1:E:718:GLY:N	2.48	0.47
1:G:427:SER:HB3	1:G:732:THR:CG2	2.44	0.47
1:M:489:SER:N	1:M:495:ASN:OD1	2.44	0.47
1:M:715:ASP:OD1	1:M:718:GLY:N	2.48	0.47
1:O:427:SER:HB3	1:O:732:THR:CG2	2.44	0.47
1:O:501:SER:O	1:O:502:TRP:HB3	2.14	0.47
1:Q:368:ASP:OD1	1:Q:369:VAL:N	2.46	0.47
1:R:661:PHE:HA	1:V:371:MET:CE	2.38	0.47
1:T:427:SER:HB3	1:T:732:THR:CG2	2.44	0.47
1:T:453:GLY:H	1:T:457:GLN:C	2.23	0.47
1:V:492:SER:O	1:X:457:GLN:NE2	2.47	0.47
1:Y:427:SER:HB3	1:Y:732:THR:CG2	2.44	0.47
1:b:489:SER:N	1:b:495:ASN:OD1	2.44	0.47
1:c:427:SER:HB3	1:c:732:THR:CG2	2.44	0.47
1:d:368:ASP:OD1	1:d:369:VAL:N	2.46	0.47
1:d:427:SER:HB3	1:d:732:THR:CG2	2.44	0.47
1:e:450:THR:HB	1:e:458:SER:OG	2.14	0.47
1:f:427:SER:HB3	1:f:732:THR:CG2	2.44	0.47
1:g:452:THR:C	1:g:454:THR:HA	2.38	0.47
1:g:453:GLY:H	1:g:457:GLN:C	2.23	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:h:450:THR:HB	1:h:458:SER:OG	2.14	0.47
1:i:715:ASP:OD1	1:i:718:GLY:N	2.48	0.47
1:k:450:THR:HB	1:k:458:SER:OG	2.14	0.47
1:k:453:GLY:H	1:k:457:GLN:C	2.23	0.47
1:m:501:SER:O	1:m:502:TRP:HB3	2.14	0.47
1:o:514:ASP:OD1	1:o:514:ASP:N	2.37	0.47
1:q:492:SER:O	1:s:457:GLN:NE2	2.47	0.47
1:r:544:LYS:O	1:r:547:SER:OG	2.30	0.47
1:s:368:ASP:OD1	1:s:369:VAL:N	2.46	0.47
1:u:450:THR:HB	1:u:458:SER:OG	2.14	0.47
1:u:457:GLN:NE2	1:v:492:SER:O	2.48	0.47
1:w:501:SER:O	1:w:502:TRP:HB3	2.14	0.47
1:x:453:GLY:H	1:x:457:GLN:C	2.23	0.47
1:x:501:SER:O	1:x:502:TRP:HB3	2.14	0.47
1:3:501:SER:O	1:3:502:TRP:HB3	2.14	0.47
1:4:500:TYR:O	1:4:501:SER:OG	2.23	0.47
1:F:715:ASP:OD1	1:F:718:GLY:N	2.48	0.47
1:H:368:ASP:OD1	1:H:369:VAL:N	2.46	0.47
1:H:457:GLN:NE2	1:W:492:SER:O	2.47	0.47
1:I:450:THR:HB	1:I:458:SER:OG	2.14	0.47
1:N:715:ASP:OD1	1:N:718:GLY:N	2.48	0.47
1:O:450:THR:HB	1:O:458:SER:OG	2.14	0.47
1:O:708:VAL:HB	1:P:385:GLN:NE2	2.29	0.47
1:P:715:ASP:OD1	1:P:718:GLY:N	2.48	0.47
1:R:427:SER:HB3	1:R:732:THR:CG2	2.44	0.47
1:S:715:ASP:OD1	1:S:718:GLY:N	2.48	0.47
1:W:501:SER:O	1:W:502:TRP:HB3	2.14	0.47
1:X:287:PHE:O	1:X:290:HIS:N	2.43	0.47
1:Y:715:ASP:OD1	1:Y:718:GLY:N	2.48	0.47
1:c:501:SER:O	1:c:502:TRP:HB3	2.14	0.47
1:c:715:ASP:OD1	1:c:718:GLY:N	2.48	0.47
1:f:450:THR:HB	1:f:458:SER:OG	2.14	0.47
1:g:715:ASP:OD1	1:g:718:GLY:N	2.48	0.47
1:i:368:ASP:OD1	1:i:369:VAL:N	2.46	0.47
1:j:427:SER:HB3	1:j:732:THR:CG2	2.44	0.47
1:k:489:SER:N	1:k:495:ASN:OD1	2.44	0.47
1:n:304:TRP:O	1:n:423:SER:OG	2.25	0.47
1:p:427:SER:HB3	1:p:732:THR:CG2	2.44	0.47
1:q:501:SER:O	1:q:502:TRP:HB3	2.14	0.47
1:r:427:SER:HB3	1:r:732:THR:CG2	2.44	0.47
1:t:489:SER:N	1:t:495:ASN:OD1	2.44	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:v:427:SER:HB3	1:v:732:THR:CG2	2.44	0.47
1:2:427:SER:HB3	1:2:732:THR:CG2	2.44	0.47
1:4:304:TRP:O	1:4:423:SER:OG	2.25	0.47
1:4:427:SER:HB3	1:4:732:THR:CG2	2.44	0.47
1:5:368:ASP:OD1	1:5:369:VAL:N	2.46	0.47
1:A:453:GLY:H	1:A:457:GLN:C	2.23	0.47
1:A:492:SER:O	1:I:457:GLN:NE2	2.48	0.47
1:A:514:ASP:OD1	1:A:514:ASP:N	2.37	0.47
1:B:427:SER:HB3	1:B:732:THR:CG2	2.44	0.47
1:B:450:THR:HB	1:B:458:SER:OG	2.14	0.47
1:B:452:THR:C	1:B:454:THR:HA	2.38	0.47
1:E:450:THR:HB	1:E:458:SER:OG	2.14	0.47
1:H:622:PRO:HB3	1:Y:735:LEU:HD21	1.95	0.47
1:I:715:ASP:OD1	1:I:718:GLY:N	2.48	0.47
1:K:385:GLN:NE2	1:7:708:VAL:HB	2.29	0.47
1:N:450:THR:HB	1:N:458:SER:OG	2.14	0.47
1:P:450:THR:HB	1:P:458:SER:OG	2.14	0.47
1:Q:715:ASP:OD1	1:Q:718:GLY:N	2.48	0.47
1:R:450:THR:HB	1:R:458:SER:OG	2.14	0.47
1:S:241:THR:HG21	1:S:291:PHE:CE1	2.44	0.47
1:T:452:THR:C	1:T:454:THR:HA	2.38	0.47
1:U:427:SER:HB3	1:U:732:THR:CG2	2.44	0.47
1:X:715:ASP:OD1	1:X:718:GLY:N	2.48	0.47
1:Z:501:SER:O	1:Z:502:TRP:HB3	2.14	0.47
1:a:241:THR:HG21	1:a:291:PHE:CE1	2.44	0.47
1:a:450:THR:HB	1:a:458:SER:OG	2.14	0.47
1:a:489:SER:N	1:a:495:ASN:OD1	2.44	0.47
1:b:427:SER:HB3	1:b:732:THR:CG2	2.44	0.47
1:e:501:SER:O	1:e:502:TRP:HB3	2.14	0.47
1:g:450:THR:HB	1:g:458:SER:OG	2.14	0.47
1:g:501:SER:O	1:g:502:TRP:HB3	2.14	0.47
1:h:322:GLU:HG3	1:h:672:GLN:HB3	1.97	0.47
1:h:501:SER:O	1:h:502:TRP:HB3	2.14	0.47
1:i:450:THR:HB	1:i:458:SER:OG	2.14	0.47
1:i:501:SER:O	1:i:502:TRP:HB3	2.14	0.47
1:j:450:THR:HB	1:j:458:SER:OG	2.14	0.47
1:k:322:GLU:HG3	1:k:672:GLN:HB3	1.97	0.47
1:n:427:SER:HB3	1:n:732:THR:CG2	2.44	0.47
1:n:715:ASP:OD1	1:n:718:GLY:N	2.48	0.47
1:o:453:GLY:H	1:o:457:GLN:C	2.23	0.47
1:r:453:GLY:H	1:r:457:GLN:C	2.23	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:r:735:LEU:HD21	1:s:622:PRO:HB3	1.95	0.47
1:t:322:GLU:HG3	1:t:672:GLN:HB3	1.97	0.47
1:t:427:SER:HB3	1:t:732:THR:CG2	2.44	0.47
1:t:492:SER:O	1:v:457:GLN:NE2	2.48	0.47
1:u:241:THR:HG21	1:u:291:PHE:CE1	2.44	0.47
1:u:715:ASP:OD1	1:u:718:GLY:N	2.48	0.47
1:w:450:THR:HB	1:w:458:SER:OG	2.14	0.47
1:x:450:THR:HB	1:x:458:SER:OG	2.14	0.47
1:x:715:ASP:OD1	1:x:718:GLY:N	2.48	0.47
1:z:322:GLU:HG3	1:z:672:GLN:HB3	1.97	0.47
1:z:450:THR:HB	1:z:458:SER:OG	2.14	0.47
1:1:452:THR:C	1:1:454:THR:HA	2.38	0.47
1:2:368:ASP:OD1	1:2:369:VAL:N	2.46	0.47
1:6:715:ASP:OD1	1:6:718:GLY:N	2.48	0.47
1:7:715:ASP:OD1	1:7:718:GLY:N	2.48	0.47
1:8:450:THR:HB	1:8:458:SER:OG	2.14	0.47
1:8:715:ASP:OD1	1:8:718:GLY:N	2.48	0.47
1:D:241:THR:HG21	1:D:291:PHE:CE1	2.44	0.47
1:D:385:GLN:NE2	1:E:708:VAL:HB	2.29	0.47
1:E:427:SER:HB3	1:E:732:THR:CG2	2.44	0.47
1:K:241:THR:HG21	1:K:291:PHE:CE1	2.44	0.47
1:K:450:THR:HB	1:K:458:SER:OG	2.14	0.47
1:K:492:SER:O	1:8:457:GLN:NE2	2.47	0.47
1:L:427:SER:HB3	1:L:732:THR:CG2	2.44	0.47
1:N:241:THR:HG21	1:N:291:PHE:CE1	2.44	0.47
1:N:489:SER:N	1:N:495:ASN:OD1	2.44	0.47
1:O:225:SER:N	1:O:317:ASN:HD21	2.13	0.47
1:R:322:GLU:HG3	1:R:672:GLN:HB3	1.97	0.47
1:V:661:PHE:HA	1:W:371:MET:CE	2.38	0.47
1:Y:453:GLY:H	1:Y:457:GLN:C	2.23	0.47
1:b:450:THR:HB	1:b:458:SER:OG	2.14	0.47
1:b:452:THR:C	1:b:454:THR:HA	2.38	0.47
1:e:489:SER:N	1:e:495:ASN:OD1	2.44	0.47
1:k:501:SER:O	1:k:502:TRP:HB3	2.14	0.47
1:l:322:GLU:HG3	1:l:672:GLN:HB3	1.97	0.47
1:m:711:ASP:HB2	1:m:723:PRO:HG2	1.97	0.47
1:o:501:SER:O	1:o:502:TRP:HB3	2.14	0.47
1:v:450:THR:HB	1:v:458:SER:OG	2.14	0.47
1:v:715:ASP:OD1	1:v:718:GLY:N	2.48	0.47
1:7:450:THR:HB	1:7:458:SER:OG	2.14	0.47
1:A:501:SER:O	1:A:502:TRP:HB3	2.14	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:427:SER:HB3	1:C:732:THR:CG2	2.44	0.47
1:D:450:THR:HB	1:D:458:SER:OG	2.14	0.47
1:D:452:THR:HG22	1:D:453:GLY:O	2.15	0.47
1:G:715:ASP:OD1	1:G:718:GLY:N	2.48	0.47
1:K:452:THR:HG22	1:K:453:GLY:O	2.15	0.47
1:R:489:SER:N	1:R:495:ASN:OD1	2.44	0.47
1:T:322:GLU:HG3	1:T:672:GLN:HB3	1.97	0.47
1:T:492:SER:O	1:l:457:GLN:NE2	2.47	0.47
1:U:450:THR:HB	1:U:458:SER:OG	2.14	0.47
1:U:715:ASP:OD1	1:U:718:GLY:N	2.48	0.47
1:V:322:GLU:HG3	1:V:672:GLN:HB3	1.97	0.47
1:W:427:SER:HB3	1:W:732:THR:CG2	2.44	0.47
1:X:450:THR:HB	1:X:458:SER:OG	2.14	0.47
1:Z:715:ASP:OD1	1:Z:718:GLY:N	2.48	0.47
1:a:432:ARG:NH2	1:8:269:ASP:O	2.47	0.47
1:b:452:THR:HG22	1:b:453:GLY:O	2.15	0.47
1:d:453:GLY:H	1:d:457:GLN:C	2.23	0.47
1:d:715:ASP:OD1	1:d:718:GLY:N	2.48	0.47
1:e:322:GLU:HG3	1:e:672:GLN:HB3	1.97	0.47
1:j:715:ASP:OD1	1:j:718:GLY:N	2.48	0.47
1:o:715:ASP:OD1	1:o:718:GLY:N	2.48	0.47
1:p:225:SER:N	1:p:317:ASN:HD21	2.13	0.47
1:p:452:THR:HG22	1:p:453:GLY:O	2.15	0.47
1:p:715:ASP:OD1	1:p:718:GLY:N	2.48	0.47
1:r:241:THR:HG21	1:r:291:PHE:CE1	2.44	0.47
1:s:322:GLU:HG3	1:s:672:GLN:HB3	1.97	0.47
1:s:453:GLY:H	1:s:457:GLN:C	2.23	0.47
1:w:322:GLU:HG3	1:w:672:GLN:HB3	1.97	0.47
1:y:322:GLU:HG3	1:y:672:GLN:HB3	1.97	0.47
1:z:492:SER:O	1:2:457:GLN:NE2	2.48	0.47
1:z:622:PRO:HB3	1:2:735:LEU:HD21	1.97	0.47
1:1:322:GLU:HG3	1:1:672:GLN:HB3	1.97	0.47
1:1:462:PHE:HE1	1:2:541:ILE:HD13	1.80	0.47
1:2:453:GLY:H	1:2:457:GLN:C	2.23	0.47
1:2:715:ASP:OD1	1:2:718:GLY:N	2.48	0.47
1:3:322:GLU:HG3	1:3:672:GLN:HB3	1.97	0.47
1:4:501:SER:O	1:4:502:TRP:HB3	2.14	0.47
1:4:715:ASP:OD1	1:4:718:GLY:N	2.48	0.47
1:5:715:ASP:OD1	1:5:718:GLY:N	2.48	0.47
1:7:427:SER:HB3	1:7:732:THR:CG2	2.44	0.47
1:C:715:ASP:OD1	1:C:718:GLY:N	2.48	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:322:GLU:HG3	1:D:672:GLN:HB3	1.97	0.47
1:G:225:SER:N	1:G:317:ASN:HD21	2.13	0.47
1:G:453:GLY:H	1:G:457:GLN:C	2.23	0.47
1:H:322:GLU:HG3	1:H:672:GLN:HB3	1.97	0.47
1:K:322:GLU:HG3	1:K:672:GLN:HB3	1.97	0.47
1:L:322:GLU:HG3	1:L:672:GLN:HB3	1.97	0.47
1:O:322:GLU:HG3	1:O:672:GLN:HB3	1.97	0.47
1:P:322:GLU:HG3	1:P:672:GLN:HB3	1.97	0.47
1:Q:452:THR:HG22	1:Q:453:GLY:O	2.15	0.47
1:T:457:GLN:NE2	1:d:492:SER:O	2.47	0.47
1:U:225:SER:N	1:U:317:ASN:HD21	2.13	0.47
1:W:452:THR:HG22	1:W:453:GLY:O	2.15	0.47
1:Z:711:ASP:HB2	1:Z:723:PRO:HG2	1.97	0.47
1:l:450:THR:HB	1:l:458:SER:OG	2.14	0.47
1:l:715:ASP:OD1	1:l:718:GLY:N	2.48	0.47
1:m:715:ASP:OD1	1:m:718:GLY:N	2.48	0.47
1:p:453:GLY:H	1:p:457:GLN:C	2.23	0.47
1:v:225:SER:N	1:v:317:ASN:HD21	2.14	0.47
1:v:322:GLU:HG3	1:v:672:GLN:HB3	1.97	0.47
1:x:711:ASP:HB2	1:x:723:PRO:HG2	1.97	0.47
1:z:711:ASP:HB2	1:z:723:PRO:HG2	1.97	0.47
1:3:225:SER:N	1:3:317:ASN:HD21	2.13	0.47
1:3:711:ASP:HB2	1:3:723:PRO:HG2	1.97	0.47
1:6:322:GLU:HG3	1:6:672:GLN:HB3	1.97	0.47
1:6:501:SER:O	1:6:502:TRP:HB3	2.14	0.47
1:A:715:ASP:OD1	1:A:718:GLY:N	2.48	0.46
1:B:452:THR:HG22	1:B:453:GLY:O	2.15	0.46
1:B:501:SER:O	1:B:502:TRP:HB3	2.14	0.46
1:C:322:GLU:HG3	1:C:672:GLN:HB3	1.97	0.46
1:F:322:GLU:HG3	1:F:672:GLN:HB3	1.97	0.46
1:F:501:SER:O	1:F:502:TRP:HB3	2.14	0.46
1:G:452:THR:HG22	1:G:453:GLY:O	2.15	0.46
1:H:711:ASP:HB2	1:H:723:PRO:HG2	1.97	0.46
1:I:225:SER:N	1:I:317:ASN:HD21	2.13	0.46
1:L:483:TYR:OH	1:L:506:THR:OG1	2.27	0.46
1:L:715:ASP:OD1	1:L:718:GLY:N	2.48	0.46
1:O:711:ASP:HB2	1:O:723:PRO:HG2	1.97	0.46
1:R:241:THR:HG21	1:R:291:PHE:CE1	2.44	0.46
1:R:715:ASP:OD1	1:R:718:GLY:N	2.48	0.46
1:V:715:ASP:OD1	1:V:718:GLY:N	2.48	0.46
1:X:711:ASP:HB2	1:X:723:PRO:HG2	1.97	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Z:452:THR:HG22	1:Z:453:GLY:O	2.15	0.46
1:f:715:ASP:OD1	1:f:718:GLY:N	2.48	0.46
1:l:711:ASP:HB2	1:l:723:PRO:HG2	1.98	0.46
1:n:501:SER:O	1:n:502:TRP:HB3	2.14	0.46
1:q:427:SER:HB3	1:q:732:THR:CG2	2.44	0.46
1:q:450:THR:HB	1:q:458:SER:OG	2.14	0.46
1:q:452:THR:HG22	1:q:453:GLY:O	2.15	0.46
1:t:715:ASP:OD1	1:t:718:GLY:N	2.48	0.46
1:w:711:ASP:HB2	1:w:723:PRO:HG2	1.97	0.46
1:x:225:SER:N	1:x:317:ASN:HD21	2.13	0.46
1:z:715:ASP:OD1	1:z:718:GLY:N	2.48	0.46
1:2:225:SER:N	1:2:317:ASN:HD21	2.13	0.46
1:5:322:GLU:HG3	1:5:672:GLN:HB3	1.97	0.46
1:5:450:THR:HB	1:5:458:SER:OG	2.14	0.46
1:5:452:THR:HG22	1:5:453:GLY:O	2.15	0.46
1:6:450:THR:HB	1:6:458:SER:OG	2.14	0.46
1:8:322:GLU:HG3	1:8:672:GLN:HB3	1.97	0.46
1:C:483:TYR:OH	1:C:506:THR:OG1	2.26	0.46
1:E:322:GLU:HG3	1:E:672:GLN:HB3	1.97	0.46
1:E:452:THR:HG22	1:E:453:GLY:O	2.15	0.46
1:E:711:ASP:HB2	1:E:723:PRO:HG2	1.97	0.46
1:G:711:ASP:HB2	1:G:723:PRO:HG2	1.97	0.46
1:I:241:THR:HG21	1:I:291:PHE:CE1	2.44	0.46
1:M:322:GLU:HG3	1:M:672:GLN:HB3	1.97	0.46
1:M:501:SER:O	1:M:502:TRP:HB3	2.14	0.46
1:N:309:LYS:HA	1:N:309:LYS:HD2	1.74	0.46
1:N:711:ASP:HB2	1:N:723:PRO:HG2	1.97	0.46
1:Q:225:SER:N	1:Q:317:ASN:HD21	2.13	0.46
1:Q:450:THR:HB	1:Q:458:SER:OG	2.14	0.46
1:T:225:SER:N	1:T:317:ASN:HD21	2.13	0.46
1:U:322:GLU:HG3	1:U:672:GLN:HB3	1.97	0.46
1:W:450:THR:HB	1:W:458:SER:OG	2.14	0.46
1:X:225:SER:N	1:X:317:ASN:HD21	2.13	0.46
1:c:225:SER:N	1:c:317:ASN:HD21	2.13	0.46
1:c:453:GLY:H	1:c:457:GLN:C	2.23	0.46
1:d:225:SER:N	1:d:317:ASN:HD21	2.13	0.46
1:e:711:ASP:HB2	1:e:723:PRO:HG2	1.97	0.46
1:e:715:ASP:OD1	1:e:718:GLY:N	2.48	0.46
1:m:452:THR:HG22	1:m:453:GLY:O	2.15	0.46
1:o:452:THR:HG22	1:o:453:GLY:O	2.15	0.46
1:p:711:ASP:HB2	1:p:723:PRO:HG2	1.97	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:q:225:SER:N	1:q:317:ASN:HD21	2.13	0.46
1:q:371:MET:CE	1:y:661:PHE:HA	2.38	0.46
1:s:711:ASP:HB2	1:s:723:PRO:HG2	1.98	0.46
1:t:241:THR:HG21	1:t:291:PHE:CE1	2.44	0.46
1:w:715:ASP:OD1	1:w:718:GLY:N	2.47	0.46
1:z:225:SER:N	1:z:317:ASN:HD21	2.13	0.46
1:1:225:SER:N	1:1:317:ASN:HD21	2.13	0.46
1:1:241:THR:HG21	1:1:291:PHE:CE1	2.44	0.46
1:4:225:SER:N	1:4:317:ASN:HD21	2.13	0.46
1:5:225:SER:N	1:5:317:ASN:HD21	2.13	0.46
1:7:322:GLU:HG3	1:7:672:GLN:HB3	1.97	0.46
1:7:452:THR:HG22	1:7:453:GLY:O	2.15	0.46
1:7:711:ASP:HB2	1:7:723:PRO:HG2	1.97	0.46
1:A:452:THR:HG22	1:A:453:GLY:O	2.15	0.46
1:B:322:GLU:HG3	1:B:672:GLN:HB3	1.97	0.46
1:C:225:SER:N	1:C:317:ASN:HD21	2.13	0.46
1:C:661:PHE:HA	1:D:371:MET:CE	2.37	0.46
1:F:450:THR:HB	1:F:458:SER:OG	2.14	0.46
1:H:453:GLY:H	1:H:457:GLN:C	2.23	0.46
1:J:322:GLU:HG3	1:J:672:GLN:HB3	1.97	0.46
1:J:711:ASP:HB2	1:J:723:PRO:HG2	1.97	0.46
1:K:225:SER:N	1:K:317:ASN:HD21	2.13	0.46
1:L:225:SER:N	1:L:317:ASN:HD21	2.13	0.46
1:L:450:THR:HB	1:L:458:SER:OG	2.14	0.46
1:P:711:ASP:HB2	1:P:723:PRO:HG2	1.97	0.46
1:Q:322:GLU:HG3	1:Q:672:GLN:HB3	1.97	0.46
1:R:452:THR:HG22	1:R:453:GLY:O	2.15	0.46
1:R:711:ASP:HB2	1:R:723:PRO:HG2	1.97	0.46
1:Y:241:THR:HG21	1:Y:291:PHE:CE1	2.44	0.46
1:a:498:SER:OG	1:a:499:GLU:N	2.49	0.46
1:a:711:ASP:HB2	1:a:723:PRO:HG2	1.97	0.46
1:b:322:GLU:HG3	1:b:672:GLN:HB3	1.97	0.46
1:c:241:THR:HG21	1:c:291:PHE:CE1	2.44	0.46
1:f:225:SER:N	1:f:317:ASN:HD21	2.13	0.46
1:g:322:GLU:HG3	1:g:672:GLN:HB3	1.97	0.46
1:g:509:HIS:CB	1:g:514:ASP:HA	2.45	0.46
1:h:711:ASP:HB2	1:h:723:PRO:HG2	1.97	0.46
1:i:322:GLU:HG3	1:i:672:GLN:HB3	1.97	0.46
1:j:225:SER:N	1:j:317:ASN:HD21	2.13	0.46
1:k:225:SER:N	1:k:317:ASN:HD21	2.13	0.46
1:k:711:ASP:HB2	1:k:723:PRO:HG2	1.97	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:l:225:SER:N	1:l:317:ASN:HD21	2.13	0.46
1:s:498:SER:OG	1:s:499:GLU:N	2.49	0.46
1:s:501:SER:O	1:s:502:TRP:HB3	2.14	0.46
1:t:452:THR:HG22	1:t:453:GLY:O	2.15	0.46
1:t:711:ASP:HB2	1:t:723:PRO:HG2	1.97	0.46
1:v:453:GLY:H	1:v:457:GLN:C	2.23	0.46
1:x:452:THR:HG22	1:x:453:GLY:O	2.15	0.46
1:y:715:ASP:OD1	1:y:718:GLY:N	2.48	0.46
1:4:322:GLU:HG3	1:4:672:GLN:HB3	1.97	0.46
1:4:452:THR:HG22	1:4:453:GLY:O	2.15	0.46
1:4:711:ASP:HB2	1:4:723:PRO:HG2	1.97	0.46
1:8:711:ASP:HB2	1:8:723:PRO:HG2	1.97	0.46
1:I:453:GLY:H	1:I:457:GLN:C	2.23	0.46
1:J:501:SER:O	1:J:502:TRP:HB3	2.14	0.46
1:M:711:ASP:HB2	1:M:723:PRO:HG2	1.97	0.46
1:N:498:SER:OG	1:N:499:GLU:N	2.49	0.46
1:U:453:GLY:H	1:U:457:GLN:C	2.23	0.46
1:W:225:SER:N	1:W:317:ASN:HD21	2.13	0.46
1:W:711:ASP:HB2	1:W:723:PRO:HG2	1.97	0.46
1:b:453:GLY:H	1:b:457:GLN:C	2.23	0.46
1:f:322:GLU:HG3	1:f:672:GLN:HB3	1.97	0.46
1:g:225:SER:N	1:g:317:ASN:HD21	2.13	0.46
1:h:225:SER:N	1:h:317:ASN:HD21	2.13	0.46
1:i:509:HIS:CB	1:i:514:ASP:HA	2.45	0.46
1:j:322:GLU:HG3	1:j:672:GLN:HB3	1.97	0.46
1:l:498:SER:OG	1:l:499:GLU:N	2.49	0.46
1:n:225:SER:N	1:n:317:ASN:HD21	2.13	0.46
1:n:322:GLU:HG3	1:n:672:GLN:HB3	1.97	0.46
1:n:452:THR:HG22	1:n:453:GLY:O	2.15	0.46
1:n:711:ASP:HB2	1:n:723:PRO:HG2	1.97	0.46
1:q:711:ASP:HB2	1:q:723:PRO:HG2	1.97	0.46
1:s:225:SER:N	1:s:317:ASN:HD21	2.13	0.46
1:z:498:SER:OG	1:z:499:GLU:N	2.49	0.46
1:2:322:GLU:HG3	1:2:672:GLN:HB3	1.97	0.46
1:B:453:GLY:H	1:B:457:GLN:C	2.23	0.46
1:C:450:THR:HB	1:C:458:SER:OG	2.14	0.46
1:C:452:THR:HG22	1:C:453:GLY:O	2.15	0.46
1:C:453:GLY:H	1:C:457:GLN:C	2.23	0.46
1:D:225:SER:N	1:D:317:ASN:HD21	2.13	0.46
1:D:525:SER:OG	1:D:561:ASP:OD1	2.16	0.46
1:G:498:SER:OG	1:G:499:GLU:N	2.49	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:225:SER:N	1:H:317:ASN:HD21	2.13	0.46
1:H:498:SER:OG	1:H:499:GLU:N	2.49	0.46
1:H:501:SER:O	1:H:502:TRP:HB3	2.14	0.46
1:K:544:LYS:O	1:K:547:SER:OG	2.30	0.46
1:L:509:HIS:CB	1:L:514:ASP:HA	2.45	0.46
1:O:500:TYR:O	1:O:501:SER:OG	2.24	0.46
1:P:452:THR:HG22	1:P:453:GLY:O	2.15	0.46
1:U:498:SER:OG	1:U:499:GLU:N	2.49	0.46
1:V:225:SER:N	1:V:317:ASN:HD21	2.13	0.46
1:V:452:THR:HG22	1:V:453:GLY:O	2.15	0.46
1:g:711:ASP:HB2	1:g:723:PRO:HG2	1.97	0.46
1:h:452:THR:HG22	1:h:453:GLY:O	2.15	0.46
1:i:225:SER:N	1:i:317:ASN:HD21	2.14	0.46
1:i:711:ASP:HB2	1:i:723:PRO:HG2	1.97	0.46
1:j:661:PHE:HA	1:l:371:MET:CE	2.39	0.46
1:j:711:ASP:HB2	1:j:723:PRO:HG2	1.97	0.46
1:k:452:THR:HG22	1:k:453:GLY:O	2.15	0.46
1:l:452:THR:HG22	1:l:453:GLY:O	2.15	0.46
1:r:322:GLU:HG3	1:r:672:GLN:HB3	1.97	0.46
1:t:453:GLY:H	1:t:457:GLN:C	2.23	0.46
1:u:225:SER:N	1:u:317:ASN:HD21	2.13	0.46
1:v:498:SER:OG	1:v:499:GLU:N	2.49	0.46
1:y:452:THR:HG22	1:y:453:GLY:O	2.15	0.46
1:z:452:THR:HG22	1:z:453:GLY:O	2.15	0.46
1:8:452:THR:HG22	1:8:453:GLY:O	2.15	0.46
1:L:452:THR:HG22	1:L:453:GLY:O	2.15	0.46
1:T:241:THR:HG21	1:T:291:PHE:CE1	2.44	0.46
1:V:711:ASP:HB2	1:V:723:PRO:HG2	1.97	0.46
1:X:452:THR:HG22	1:X:453:GLY:O	2.15	0.46
1:Y:322:GLU:HG3	1:Y:672:GLN:HB3	1.97	0.46
1:d:322:GLU:HG3	1:d:672:GLN:HB3	1.97	0.46
1:f:711:ASP:HB2	1:f:723:PRO:HG2	1.97	0.46
1:g:309:LYS:HA	1:g:309:LYS:HD2	1.74	0.46
1:o:225:SER:N	1:o:317:ASN:HD21	2.13	0.46
1:o:711:ASP:HB2	1:o:723:PRO:HG2	1.97	0.46
1:p:498:SER:OG	1:p:499:GLU:N	2.49	0.46
1:u:699:GLN:HB2	1:1:701:THR:HG1	1.80	0.46
1:v:385:GLN:NE2	1:1:708:VAL:HB	2.30	0.46
1:w:225:SER:N	1:w:317:ASN:HD21	2.13	0.46
1:y:225:SER:N	1:y:317:ASN:HD21	2.13	0.46
1:y:453:GLY:H	1:y:457:GLN:C	2.23	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:6:452:THR:HG22	1:6:453:GLY:O	2.15	0.46
1:A:711:ASP:HB2	1:A:723:PRO:HG2	1.97	0.46
1:G:322:GLU:HG3	1:G:672:GLN:HB3	1.97	0.46
1:N:225:SER:N	1:N:317:ASN:HD21	2.13	0.46
1:N:699:GLN:HB2	1:O:701:THR:HG1	1.81	0.46
1:Q:498:SER:OG	1:Q:499:GLU:N	2.49	0.46
1:R:453:GLY:H	1:R:457:GLN:C	2.23	0.46
1:S:225:SER:N	1:S:317:ASN:HD21	2.13	0.46
1:S:427:SER:HB3	1:S:732:THR:CG2	2.44	0.46
1:V:453:GLY:H	1:V:457:GLN:C	2.23	0.46
1:b:225:SER:N	1:b:317:ASN:HD21	2.13	0.46
1:e:225:SER:N	1:e:317:ASN:HD21	2.13	0.46
1:e:699:GLN:HB2	1:f:701:THR:HG1	1.80	0.46
1:f:452:THR:HG22	1:f:453:GLY:O	2.15	0.46
1:u:427:SER:HB3	1:u:732:THR:CG2	2.44	0.46
1:y:711:ASP:HB2	1:y:723:PRO:HG2	1.97	0.46
1:1:498:SER:OG	1:1:499:GLU:N	2.49	0.46
1:5:498:SER:OG	1:5:499:GLU:N	2.49	0.46
1:7:453:GLY:H	1:7:457:GLN:C	2.23	0.46
1:A:225:SER:N	1:A:317:ASN:HD21	2.13	0.46
1:F:452:THR:HG22	1:F:453:GLY:O	2.15	0.46
1:H:241:THR:HG21	1:H:291:PHE:CE1	2.44	0.46
1:L:453:GLY:H	1:L:457:GLN:C	2.23	0.46
1:O:509:HIS:CB	1:O:514:ASP:HA	2.45	0.46
1:P:225:SER:N	1:P:317:ASN:HD21	2.13	0.46
1:T:498:SER:OG	1:T:499:GLU:N	2.49	0.46
1:a:309:LYS:HA	1:a:309:LYS:HD2	1.74	0.46
1:f:509:HIS:CB	1:f:514:ASP:HA	2.45	0.46
1:j:452:THR:HG22	1:j:453:GLY:O	2.15	0.46
1:m:498:SER:OG	1:m:499:GLU:N	2.49	0.46
1:n:509:HIS:CB	1:n:514:ASP:HA	2.45	0.46
1:p:322:GLU:HG3	1:p:672:GLN:HB3	1.97	0.46
1:y:498:SER:OG	1:y:499:GLU:N	2.49	0.46
1:E:225:SER:N	1:E:317:ASN:HD21	2.13	0.46
1:F:498:SER:OG	1:F:499:GLU:N	2.49	0.46
1:Z:498:SER:OG	1:Z:499:GLU:N	2.49	0.46
1:a:225:SER:N	1:a:317:ASN:HD21	2.13	0.46
1:g:452:THR:HG22	1:g:453:GLY:O	2.15	0.46
1:i:452:THR:HG22	1:i:453:GLY:O	2.15	0.46
1:k:498:SER:OG	1:k:499:GLU:N	2.49	0.46
1:o:322:GLU:HG3	1:o:672:GLN:HB3	1.97	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:q:322:GLU:HG3	1:q:672:GLN:HB3	1.97	0.46
1:1:589:GLN:HA	1:2:496:ASN:ND2	2.30	0.46
1:2:711:ASP:HB2	1:2:723:PRO:HG2	1.97	0.46
1:4:509:HIS:CB	1:4:514:ASP:HA	2.45	0.46
1:A:322:GLU:HG3	1:A:672:GLN:HB3	1.97	0.46
1:B:225:SER:N	1:B:317:ASN:HD21	2.13	0.46
1:E:283:ASP:OD1	1:E:354:LEU:HD22	2.16	0.46
1:E:453:GLY:H	1:E:457:GLN:C	2.23	0.46
1:H:304:TRP:O	1:H:423:SER:OG	2.25	0.46
1:J:241:THR:HG21	1:J:291:PHE:CE1	2.44	0.46
1:K:357:ALA:HB1	1:8:441:TYR:CE2	2.51	0.46
1:O:452:THR:HG22	1:O:453:GLY:O	2.15	0.46
1:Q:711:ASP:HB2	1:Q:723:PRO:HG2	1.97	0.46
1:U:283:ASP:OD1	1:U:354:LEU:HD22	2.16	0.46
1:U:452:THR:HG22	1:U:453:GLY:O	2.15	0.46
1:V:498:SER:OG	1:V:499:GLU:N	2.49	0.46
1:V:525:SER:OG	1:V:561:ASP:OD1	2.16	0.46
1:W:322:GLU:HG3	1:W:672:GLN:HB3	1.97	0.46
1:X:283:ASP:OD1	1:X:354:LEU:HD22	2.16	0.46
1:d:711:ASP:HB2	1:d:723:PRO:HG2	1.97	0.46
1:h:498:SER:OG	1:h:499:GLU:N	2.49	0.46
1:i:283:ASP:OD1	1:i:354:LEU:HD22	2.16	0.46
1:n:453:GLY:H	1:n:457:GLN:C	2.23	0.46
1:s:241:THR:HG21	1:s:291:PHE:CE1	2.44	0.46
1:t:283:ASP:OD1	1:t:354:LEU:HD22	2.16	0.46
1:t:496:ASN:ND2	1:v:589:GLN:HA	2.31	0.46
1:u:322:GLU:HG3	1:u:672:GLN:HB3	1.97	0.46
1:v:283:ASP:OD1	1:v:354:LEU:HD22	2.16	0.46
1:v:452:THR:HG22	1:v:453:GLY:O	2.15	0.46
1:w:452:THR:HG22	1:w:453:GLY:O	2.15	0.46
1:x:283:ASP:OD1	1:x:354:LEU:HD22	2.16	0.46
1:x:322:GLU:HG3	1:x:672:GLN:HB3	1.97	0.46
1:3:509:HIS:CB	1:3:514:ASP:HA	2.45	0.46
1:4:453:GLY:H	1:4:457:GLN:C	2.23	0.46
1:6:509:HIS:CB	1:6:514:ASP:HA	2.45	0.46
1:7:225:SER:N	1:7:317:ASN:HD21	2.13	0.46
1:8:225:SER:N	1:8:317:ASN:HD21	2.13	0.46
1:B:462:PHE:HE1	1:J:541:ILE:HD13	1.82	0.45
1:M:241:THR:HG21	1:M:291:PHE:CE1	2.44	0.45
1:O:453:GLY:H	1:O:457:GLN:C	2.23	0.45
1:R:283:ASP:OD1	1:R:354:LEU:HD22	2.16	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:S:322:GLU:HG3	1:S:672:GLN:HB3	1.97	0.45
1:S:462:PHE:HE1	1:U:541:ILE:HD13	1.81	0.45
1:T:452:THR:HG22	1:T:453:GLY:O	2.15	0.45
1:a:453:GLY:H	1:a:457:GLN:C	2.23	0.45
1:g:283:ASP:OD1	1:g:354:LEU:HD22	2.16	0.45
1:j:283:ASP:OD1	1:j:354:LEU:HD22	2.16	0.45
1:z:283:ASP:OD1	1:z:354:LEU:HD22	2.16	0.45
1:1:452:THR:HG22	1:1:453:GLY:O	2.15	0.45
1:3:452:THR:HG22	1:3:453:GLY:O	2.15	0.45
1:5:711:ASP:HB2	1:5:723:PRO:HG2	1.97	0.45
1:7:283:ASP:OD1	1:7:354:LEU:HD22	2.16	0.45
1:B:711:ASP:HB2	1:B:723:PRO:HG2	1.97	0.45
1:C:283:ASP:OD1	1:C:354:LEU:HD22	2.16	0.45
1:I:322:GLU:HG3	1:I:672:GLN:HB3	1.97	0.45
1:I:711:ASP:HB2	1:I:723:PRO:HG2	1.98	0.45
1:L:283:ASP:OD1	1:L:354:LEU:HD22	2.16	0.45
1:Q:509:HIS:CB	1:Q:514:ASP:HA	2.45	0.45
1:S:711:ASP:HB2	1:S:723:PRO:HG2	1.97	0.45
1:V:283:ASP:OD1	1:V:354:LEU:HD22	2.16	0.45
1:X:322:GLU:HG3	1:X:672:GLN:HB3	1.97	0.45
1:X:371:MET:CE	1:Y:661:PHE:HA	2.39	0.45
1:b:711:ASP:HB2	1:b:723:PRO:HG2	1.97	0.45
1:c:322:GLU:HG3	1:c:672:GLN:HB3	1.97	0.45
1:c:711:ASP:HB2	1:c:723:PRO:HG2	1.97	0.45
1:e:452:THR:HG22	1:e:453:GLY:O	2.15	0.45
1:f:283:ASP:OD1	1:f:354:LEU:HD22	2.16	0.45
1:f:462:PHE:HE1	1:h:541:ILE:HD13	1.82	0.45
1:g:699:GLN:HB2	1:z:701:THR:HG1	1.81	0.45
1:l:283:ASP:OD1	1:l:354:LEU:HD22	2.16	0.45
1:m:225:SER:N	1:m:317:ASN:HD21	2.13	0.45
1:n:498:SER:OG	1:n:499:GLU:N	2.49	0.45
1:r:509:HIS:CB	1:r:514:ASP:HA	2.45	0.45
1:3:453:GLY:H	1:3:457:GLN:C	2.23	0.45
1:3:525:SER:OG	1:3:561:ASP:OD1	2.16	0.45
1:8:498:SER:OG	1:8:499:GLU:N	2.49	0.45
1:B:525:SER:OG	1:B:561:ASP:OD1	2.16	0.45
1:D:498:SER:OG	1:D:499:GLU:N	2.49	0.45
1:F:453:GLY:H	1:F:457:GLN:C	2.23	0.45
1:H:452:THR:HG22	1:H:453:GLY:O	2.15	0.45
1:H:525:SER:OG	1:H:561:ASP:OD1	2.16	0.45
1:K:450:THR:H	1:K:458:SER:CB	2.30	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:453:GLY:H	1:K:457:GLN:C	2.23	0.45
1:L:309:LYS:HA	1:L:309:LYS:HD2	1.74	0.45
1:M:541:ILE:HD13	1:b:462:PHE:HE1	1.82	0.45
1:N:371:MET:CE	1:m:661:PHE:HA	2.38	0.45
1:N:452:THR:HG22	1:N:453:GLY:O	2.15	0.45
1:N:453:GLY:H	1:N:457:GLN:C	2.23	0.45
1:P:498:SER:OG	1:P:499:GLU:N	2.49	0.45
1:R:525:SER:OG	1:R:561:ASP:OD1	2.16	0.45
1:Y:371:MET:CE	1:4:661:PHE:HA	2.37	0.45
1:Z:225:SER:N	1:Z:317:ASN:HD21	2.13	0.45
1:b:525:SER:OG	1:b:561:ASP:OD1	2.16	0.45
1:g:371:MET:CE	1:1:661:PHE:HA	2.36	0.45
1:k:450:THR:H	1:k:458:SER:CB	2.30	0.45
1:u:452:THR:HG22	1:u:453:GLY:O	2.15	0.45
1:z:661:PHE:HA	1:4:371:MET:CE	2.37	0.45
1:C:711:ASP:HB2	1:C:723:PRO:HG2	1.97	0.45
1:D:450:THR:H	1:D:458:SER:CB	2.30	0.45
1:J:225:SER:N	1:J:317:ASN:HD21	2.13	0.45
1:K:498:SER:OG	1:K:499:GLU:N	2.49	0.45
1:L:711:ASP:HB2	1:L:723:PRO:HG2	1.97	0.45
1:P:450:THR:H	1:P:458:SER:CB	2.30	0.45
1:S:452:THR:HG22	1:S:453:GLY:O	2.15	0.45
1:T:541:ILE:HD13	1:l:462:PHE:HE1	1.81	0.45
1:T:583:LEU:O	1:T:588:ARG:HD3	2.17	0.45
1:U:711:ASP:HB2	1:U:723:PRO:HG2	1.97	0.45
1:a:476:ASN:O	1:8:633:LEU:HB2	2.16	0.45
1:b:583:LEU:O	1:b:588:ARG:HD3	2.17	0.45
1:d:589:GLN:HA	1:l:496:ASN:ND2	2.31	0.45
1:g:496:ASN:ND2	1:h:589:GLN:HA	2.31	0.45
1:h:450:THR:H	1:h:458:SER:CB	2.30	0.45
1:i:498:SER:OG	1:i:499:GLU:N	2.49	0.45
1:l:450:THR:H	1:l:458:SER:CB	2.30	0.45
1:n:450:THR:H	1:n:458:SER:CB	2.30	0.45
1:p:450:THR:H	1:p:458:SER:CB	2.30	0.45
1:q:453:GLY:H	1:q:457:GLN:C	2.23	0.45
1:r:661:PHE:HA	1:x:371:MET:CE	2.39	0.45
1:s:304:TRP:O	1:s:423:SER:OG	2.25	0.45
1:s:452:THR:HG22	1:s:453:GLY:O	2.15	0.45
1:t:583:LEU:O	1:t:588:ARG:HD3	2.17	0.45
1:u:711:ASP:HB2	1:u:723:PRO:HG2	1.97	0.45
1:z:432:ARG:NH2	1:1:269:ASP:O	2.50	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:z:450:THR:H	1:z:458:SER:CB	2.30	0.45
1:4:498:SER:OG	1:4:499:GLU:N	2.49	0.45
1:5:385:GLN:NE2	1:8:708:VAL:HB	2.31	0.45
1:5:509:HIS:CB	1:5:514:ASP:HA	2.45	0.45
1:6:711:ASP:HB2	1:6:723:PRO:HG2	1.97	0.45
1:7:450:THR:H	1:7:458:SER:CB	2.30	0.45
1:B:583:LEU:O	1:B:588:ARG:HD3	2.17	0.45
1:D:453:GLY:H	1:D:457:GLN:C	2.23	0.45
1:E:450:THR:H	1:E:458:SER:CB	2.30	0.45
1:F:225:SER:N	1:F:317:ASN:HD21	2.13	0.45
1:F:711:ASP:HB2	1:F:723:PRO:HG2	1.97	0.45
1:G:450:THR:H	1:G:458:SER:CB	2.30	0.45
1:H:583:LEU:O	1:H:588:ARG:HD3	2.17	0.45
1:I:283:ASP:OD1	1:I:354:LEU:HD22	2.16	0.45
1:I:452:THR:HG22	1:I:453:GLY:O	2.15	0.45
1:I:498:SER:OG	1:I:499:GLU:N	2.49	0.45
1:P:283:ASP:OD1	1:P:354:LEU:HD22	2.16	0.45
1:R:225:SER:N	1:R:317:ASN:HD21	2.13	0.45
1:W:453:GLY:H	1:W:457:GLN:C	2.23	0.45
1:X:498:SER:OG	1:X:499:GLU:N	2.49	0.45
1:Y:509:HIS:CB	1:Y:514:ASP:HA	2.45	0.45
1:Z:450:THR:H	1:Z:458:SER:CB	2.30	0.45
1:a:452:THR:HG22	1:a:453:GLY:O	2.15	0.45
1:e:283:ASP:OD1	1:e:354:LEU:HD22	2.16	0.45
1:e:498:SER:OG	1:e:499:GLU:N	2.49	0.45
1:f:450:THR:H	1:f:458:SER:CB	2.30	0.45
1:f:498:SER:OG	1:f:499:GLU:N	2.49	0.45
1:h:283:ASP:OD1	1:h:354:LEU:HD22	2.16	0.45
1:m:450:THR:H	1:m:458:SER:CB	2.30	0.45
1:m:453:GLY:H	1:m:457:GLN:C	2.23	0.45
1:o:283:ASP:OD1	1:o:354:LEU:HD22	2.16	0.45
1:p:699:GLN:HB2	1:s:701:THR:HG1	1.82	0.45
1:r:620:LYS:HB2	1:r:642:PRO:HG2	1.99	0.45
1:t:225:SER:N	1:t:317:ASN:HD21	2.13	0.45
1:t:701:THR:HG1	1:5:699:GLN:HB2	1.82	0.45
1:w:283:ASP:OD1	1:w:354:LEU:HD22	2.16	0.45
1:y:283:ASP:OD1	1:y:354:LEU:HD22	2.17	0.45
1:1:583:LEU:O	1:1:588:ARG:HD3	2.17	0.45
1:4:450:THR:H	1:4:458:SER:CB	2.30	0.45
1:5:496:ASN:ND2	1:7:589:GLN:HA	2.32	0.45
1:8:450:THR:H	1:8:458:SER:CB	2.30	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:283:ASP:OD1	1:D:354:LEU:HD22	2.16	0.45
1:D:711:ASP:HB2	1:D:723:PRO:HG2	1.97	0.45
1:H:620:LYS:HB2	1:H:642:PRO:HG2	1.99	0.45
1:K:378:LEU:HG	1:8:436:PRO:HG3	1.98	0.45
1:M:225:SER:N	1:M:317:ASN:HD21	2.13	0.45
1:M:450:THR:H	1:M:458:SER:CB	2.30	0.45
1:R:583:LEU:O	1:R:588:ARG:HD3	2.17	0.45
1:V:620:LYS:HB2	1:V:642:PRO:HG2	1.99	0.45
1:c:283:ASP:OD1	1:c:354:LEU:HD22	2.16	0.45
1:d:452:THR:HG22	1:d:453:GLY:O	2.15	0.45
1:d:701:THR:HG1	1:n:699:GLN:HB2	1.82	0.45
1:g:498:SER:OG	1:g:499:GLU:N	2.49	0.45
1:j:450:THR:H	1:j:458:SER:CB	2.30	0.45
1:k:283:ASP:OD1	1:k:354:LEU:HD22	2.16	0.45
1:m:309:LYS:HA	1:m:309:LYS:HD2	1.74	0.45
1:n:661:PHE:HA	1:r:371:MET:CE	2.38	0.45
1:o:544:LYS:O	1:o:547:SER:OG	2.30	0.45
1:r:452:THR:HG22	1:r:453:GLY:O	2.15	0.45
1:r:711:ASP:HB2	1:r:723:PRO:HG2	1.97	0.45
1:s:583:LEU:O	1:s:588:ARG:HD3	2.17	0.45
1:s:620:LYS:HB2	1:s:642:PRO:HG2	1.99	0.45
1:v:241:THR:HG21	1:v:291:PHE:CE1	2.44	0.45
1:v:711:ASP:HB2	1:v:723:PRO:HG2	1.97	0.45
1:x:498:SER:OG	1:x:499:GLU:N	2.49	0.45
1:y:620:LYS:HB2	1:y:642:PRO:HG2	1.99	0.45
1:2:452:THR:HG22	1:2:453:GLY:O	2.15	0.45
1:3:450:THR:H	1:3:458:SER:CB	2.30	0.45
1:5:462:PHE:HE1	1:6:541:ILE:HD13	1.82	0.45
1:6:225:SER:N	1:6:317:ASN:HD21	2.13	0.45
1:6:283:ASP:OD1	1:6:354:LEU:HD22	2.16	0.45
1:6:450:THR:H	1:6:458:SER:CB	2.30	0.45
1:6:453:GLY:H	1:6:457:GLN:C	2.23	0.45
1:8:283:ASP:OD1	1:8:354:LEU:HD22	2.16	0.45
1:8:620:LYS:HB2	1:8:642:PRO:HG2	1.99	0.45
1:A:283:ASP:OD1	1:A:354:LEU:HD22	2.16	0.45
1:A:357:ALA:HB1	1:I:441:TYR:CE2	2.52	0.45
1:E:620:LYS:HB2	1:E:642:PRO:HG2	1.99	0.45
1:F:283:ASP:OD1	1:F:354:LEU:HD22	2.16	0.45
1:F:450:THR:H	1:F:458:SER:CB	2.30	0.45
1:K:283:ASP:OD1	1:K:354:LEU:HD22	2.16	0.45
1:K:371:MET:CE	1:L:661:PHE:HA	2.38	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:711:ASP:HB2	1:K:723:PRO:HG2	1.97	0.45
1:M:452:THR:HG22	1:M:453:GLY:O	2.15	0.45
1:N:262:SER:HB2	1:N:271:HIS:HA	1.99	0.45
1:N:462:PHE:HE1	1:P:541:ILE:HD13	1.82	0.45
1:O:450:THR:H	1:O:458:SER:CB	2.30	0.45
1:O:525:SER:OG	1:O:561:ASP:OD1	2.16	0.45
1:O:541:ILE:HD13	1:n:462:PHE:HE1	1.82	0.45
1:P:620:LYS:HB2	1:P:642:PRO:HG2	1.99	0.45
1:Q:283:ASP:OD1	1:Q:354:LEU:HD22	2.16	0.45
1:R:620:LYS:HB2	1:R:642:PRO:HG2	1.99	0.45
1:S:498:SER:OG	1:S:499:GLU:N	2.49	0.45
1:U:450:THR:H	1:U:458:SER:CB	2.30	0.45
1:Y:620:LYS:HB2	1:Y:642:PRO:HG2	1.99	0.45
1:Y:711:ASP:HB2	1:Y:723:PRO:HG2	1.98	0.45
1:Z:241:THR:HG21	1:Z:291:PHE:CE1	2.44	0.45
1:Z:322:GLU:HG3	1:Z:672:GLN:HB3	1.97	0.45
1:a:262:SER:HB2	1:a:271:HIS:HA	1.99	0.45
1:b:620:LYS:HB2	1:b:642:PRO:HG2	1.99	0.45
1:c:262:SER:HB2	1:c:271:HIS:HA	1.99	0.45
1:d:450:THR:H	1:d:458:SER:CB	2.30	0.45
1:e:583:LEU:O	1:e:588:ARG:HD3	2.17	0.45
1:g:620:LYS:HB2	1:g:642:PRO:HG2	1.99	0.45
1:h:262:SER:HB2	1:h:271:HIS:HA	1.99	0.45
1:h:620:LYS:HB2	1:h:642:PRO:HG2	1.99	0.45
1:i:620:LYS:HB2	1:i:642:PRO:HG2	1.99	0.45
1:j:498:SER:OG	1:j:499:GLU:N	2.49	0.45
1:k:262:SER:HB2	1:k:271:HIS:HA	1.99	0.45
1:l:583:LEU:O	1:l:588:ARG:HD3	2.17	0.45
1:m:322:GLU:HG3	1:m:672:GLN:HB3	1.97	0.45
1:q:262:SER:HB2	1:q:271:HIS:HA	1.99	0.45
1:q:450:THR:H	1:q:458:SER:CB	2.30	0.45
1:q:500:TYR:O	1:q:501:SER:OG	2.23	0.45
1:u:283:ASP:OD1	1:u:354:LEU:HD22	2.16	0.45
1:z:453:GLY:H	1:z:457:GLN:C	2.23	0.45
1:z:544:LYS:O	1:z:547:SER:OG	2.30	0.45
1:z:583:LEU:O	1:z:588:ARG:HD3	2.17	0.45
1:4:262:SER:HB2	1:4:271:HIS:HA	1.99	0.45
1:7:620:LYS:HB2	1:7:642:PRO:HG2	1.99	0.45
1:A:441:TYR:CE2	1:G:357:ALA:HB1	2.52	0.45
1:A:544:LYS:O	1:A:547:SER:OG	2.30	0.45
1:B:262:SER:HB2	1:B:271:HIS:HA	1.99	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:620:LYS:HB2	1:B:642:PRO:HG2	1.99	0.45
1:C:309:LYS:HD2	1:C:309:LYS:HA	1.74	0.45
1:E:441:TYR:CE2	1:Q:357:ALA:HB1	2.52	0.45
1:F:583:LEU:O	1:F:588:ARG:HD3	2.17	0.45
1:J:450:THR:H	1:J:458:SER:CB	2.30	0.45
1:M:498:SER:OG	1:M:499:GLU:N	2.49	0.45
1:N:322:GLU:HG3	1:N:672:GLN:HB3	1.97	0.45
1:P:583:LEU:O	1:P:588:ARG:HD3	2.17	0.45
1:R:496:ASN:ND2	1:U:589:GLN:HA	2.32	0.45
1:T:462:PHE:HE1	1:d:541:ILE:HD13	1.82	0.45
1:V:583:LEU:O	1:V:588:ARG:HD3	2.17	0.45
1:W:262:SER:HB2	1:W:271:HIS:HA	1.99	0.45
1:W:304:TRP:O	1:W:423:SER:OG	2.25	0.45
1:W:450:THR:H	1:W:458:SER:CB	2.30	0.45
1:Y:225:SER:N	1:Y:317:ASN:HD21	2.13	0.45
1:Y:452:THR:HG22	1:Y:453:GLY:O	2.15	0.45
1:Z:453:GLY:H	1:Z:457:GLN:C	2.23	0.45
1:b:262:SER:HB2	1:b:271:HIS:HA	1.99	0.45
1:c:498:SER:OG	1:c:499:GLU:N	2.49	0.45
1:i:462:PHE:HE1	1:j:541:ILE:HD13	1.82	0.45
1:i:583:LEU:O	1:i:588:ARG:HD3	2.17	0.45
1:j:583:LEU:O	1:j:588:ARG:HD3	2.17	0.45
1:m:241:THR:HG21	1:m:291:PHE:CE1	2.44	0.45
1:q:482:CYS:HB3	1:q:570:PRO:HG2	1.99	0.45
1:r:583:LEU:O	1:r:588:ARG:HD3	2.17	0.45
1:t:620:LYS:HB2	1:t:642:PRO:HG2	1.99	0.45
1:u:620:LYS:HB2	1:u:642:PRO:HG2	1.99	0.45
1:y:583:LEU:O	1:y:588:ARG:HD3	2.17	0.45
1:2:450:THR:H	1:2:458:SER:CB	2.30	0.45
1:5:283:ASP:OD1	1:5:354:LEU:HD22	2.16	0.45
1:6:583:LEU:O	1:6:588:ARG:HD3	2.17	0.45
1:E:357:ALA:HB1	1:F:441:TYR:CE2	2.52	0.45
1:E:482:CYS:HB3	1:E:570:PRO:HG2	1.99	0.45
1:G:283:ASP:OD1	1:G:354:LEU:HD22	2.16	0.45
1:H:450:THR:H	1:H:458:SER:CB	2.30	0.45
1:I:262:SER:HB2	1:I:271:HIS:HA	1.99	0.45
1:I:583:LEU:O	1:I:588:ARG:HD3	2.17	0.45
1:I:620:LYS:HB2	1:I:642:PRO:HG2	1.99	0.45
1:J:452:THR:HG22	1:J:453:GLY:O	2.15	0.45
1:J:498:SER:OG	1:J:499:GLU:N	2.49	0.45
1:O:620:LYS:HB2	1:O:642:PRO:HG2	1.99	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:R:498:SER:OG	1:R:499:GLU:N	2.49	0.45
1:W:482:CYS:HB3	1:W:570:PRO:HG2	1.99	0.45
1:W:583:LEU:O	1:W:588:ARG:HD3	2.17	0.45
1:W:589:GLN:HA	1:Y:496:ASN:ND2	2.32	0.45
1:Z:583:LEU:O	1:Z:588:ARG:HD3	2.17	0.45
1:c:452:THR:HG22	1:c:453:GLY:O	2.15	0.45
1:f:583:LEU:O	1:f:588:ARG:HD3	2.17	0.45
1:g:482:CYS:HB3	1:g:570:PRO:HG2	1.99	0.45
1:i:450:THR:H	1:i:458:SER:CB	2.30	0.45
1:i:482:CYS:HB3	1:i:570:PRO:HG2	1.99	0.45
1:j:462:PHE:HE1	1:k:541:ILE:HD13	1.82	0.45
1:k:620:LYS:HB2	1:k:642:PRO:HG2	1.99	0.45
1:m:462:PHE:HE1	1:n:541:ILE:HD13	1.82	0.45
1:m:583:LEU:O	1:m:588:ARG:HD3	2.17	0.45
1:n:262:SER:HB2	1:n:271:HIS:HA	1.99	0.45
1:n:283:ASP:OD1	1:n:354:LEU:HD22	2.16	0.45
1:o:441:TYR:CE2	1:p:357:ALA:HB1	2.52	0.45
1:q:583:LEU:O	1:q:588:ARG:HD3	2.17	0.45
1:q:589:GLN:HA	1:r:496:ASN:ND2	2.32	0.45
1:r:498:SER:OG	1:r:499:GLU:N	2.49	0.45
1:s:482:CYS:HB3	1:s:570:PRO:HG2	1.99	0.45
1:t:525:SER:OG	1:t:561:ASP:OD1	2.16	0.45
1:u:498:SER:OG	1:u:499:GLU:N	2.49	0.45
1:v:450:THR:H	1:v:458:SER:CB	2.30	0.45
1:w:453:GLY:H	1:w:457:GLN:C	2.23	0.45
1:w:498:SER:OG	1:w:499:GLU:N	2.49	0.45
1:w:583:LEU:O	1:w:588:ARG:HD3	2.17	0.45
1:z:461:GLN:HG2	1:1:553:ASP:OD1	2.16	0.45
1:z:476:ASN:O	1:1:633:LEU:HB2	2.17	0.45
1:3:620:LYS:HB2	1:3:642:PRO:HG2	1.99	0.45
1:5:450:THR:H	1:5:458:SER:CB	2.30	0.45
1:8:583:LEU:O	1:8:588:ARG:HD3	2.17	0.45
1:B:441:TYR:CE2	1:J:357:ALA:HB1	2.52	0.45
1:D:541:ILE:HD13	1:P:462:PHE:HE1	1.82	0.45
1:D:583:LEU:O	1:D:588:ARG:HD3	2.17	0.45
1:G:699:GLN:HB2	1:H:701:THR:HG1	1.83	0.45
1:H:482:CYS:HB3	1:H:570:PRO:HG2	1.99	0.45
1:L:583:LEU:O	1:L:588:ARG:HD3	2.17	0.45
1:M:283:ASP:OD1	1:M:354:LEU:HD22	2.16	0.45
1:M:357:ALA:HB1	1:b:441:TYR:CE2	2.52	0.45
1:N:283:ASP:OD1	1:N:354:LEU:HD22	2.16	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:P:371:MET:CE	1:Q:661:PHE:HA	2.38	0.45
1:Q:450:THR:H	1:Q:458:SER:CB	2.30	0.45
1:S:283:ASP:OD1	1:S:354:LEU:HD22	2.17	0.45
1:S:441:TYR:CE2	1:U:357:ALA:HB1	2.52	0.45
1:S:453:GLY:H	1:S:457:GLN:C	2.23	0.45
1:S:620:LYS:HB2	1:S:642:PRO:HG2	1.99	0.45
1:T:357:ALA:HB1	1:l:441:TYR:CE2	2.52	0.45
1:T:441:TYR:CE2	1:d:357:ALA:HB1	2.52	0.45
1:T:482:CYS:HB3	1:T:570:PRO:HG2	1.99	0.45
1:U:241:THR:HG21	1:U:291:PHE:CE1	2.44	0.45
1:U:262:SER:HB2	1:U:271:HIS:HA	1.99	0.45
1:V:450:THR:H	1:V:458:SER:CB	2.30	0.45
1:W:283:ASP:OD1	1:W:354:LEU:HD22	2.16	0.45
1:Y:583:LEU:O	1:Y:588:ARG:HD3	2.17	0.45
1:Z:661:PHE:HA	1:a:371:MET:CE	2.38	0.45
1:c:620:LYS:HB2	1:c:642:PRO:HG2	1.99	0.45
1:l:453:GLY:H	1:l:457:GLN:C	2.23	0.45
1:p:283:ASP:OD1	1:p:354:LEU:HD22	2.17	0.45
1:q:304:TRP:O	1:q:423:SER:OG	2.25	0.45
1:s:262:SER:HB2	1:s:271:HIS:HA	1.99	0.45
1:s:450:THR:H	1:s:458:SER:CB	2.30	0.45
1:v:304:TRP:O	1:v:423:SER:OG	2.25	0.45
1:w:441:TYR:CE2	1:x:357:ALA:HB1	2.52	0.45
1:x:309:LYS:HA	1:x:309:LYS:HD2	1.74	0.45
1:1:476:ASN:O	1:2:633:LEU:HB2	2.16	0.45
1:1:482:CYS:HB3	1:1:570:PRO:HG2	1.99	0.45
1:3:496:ASN:ND2	1:4:589:GLN:HA	2.32	0.45
1:7:509:HIS:CB	1:7:514:ASP:HA	2.45	0.45
1:C:583:LEU:O	1:C:588:ARG:HD3	2.17	0.44
1:C:620:LYS:HB2	1:C:642:PRO:HG2	1.99	0.44
1:E:583:LEU:O	1:E:588:ARG:HD3	2.17	0.44
1:H:262:SER:HB2	1:H:271:HIS:HA	1.99	0.44
1:H:283:ASP:OD1	1:H:354:LEU:HD22	2.16	0.44
1:K:482:CYS:HB3	1:K:570:PRO:HG2	1.99	0.44
1:K:583:LEU:O	1:K:588:ARG:HD3	2.17	0.44
1:O:283:ASP:OD1	1:O:354:LEU:HD22	2.16	0.44
1:O:496:ASN:ND2	1:n:589:GLN:HA	2.33	0.44
1:Q:453:GLY:H	1:Q:457:GLN:C	2.23	0.44
1:R:441:TYR:CE2	1:S:357:ALA:HB1	2.53	0.44
1:S:450:THR:H	1:S:458:SER:CB	2.30	0.44
1:V:482:CYS:HB3	1:V:570:PRO:HG2	1.99	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Y:283:ASP:OD1	1:Y:354:LEU:HD22	2.16	0.44
1:a:283:ASP:OD1	1:a:354:LEU:HD22	2.16	0.44
1:a:322:GLU:HG3	1:a:672:GLN:HB3	1.97	0.44
1:c:441:TYR:CE2	1:o:357:ALA:HB1	2.52	0.44
1:c:583:LEU:O	1:c:588:ARG:HD3	2.17	0.44
1:d:283:ASP:OD1	1:d:354:LEU:HD22	2.16	0.44
1:d:583:LEU:O	1:d:588:ARG:HD3	2.17	0.44
1:f:541:ILE:HD13	1:g:462:PHE:HE1	1.83	0.44
1:g:450:THR:H	1:g:458:SER:CB	2.30	0.44
1:g:583:LEU:O	1:g:588:ARG:HD3	2.17	0.44
1:h:482:CYS:HB3	1:h:570:PRO:HG2	1.99	0.44
1:l:262:SER:HB2	1:l:271:HIS:HA	1.99	0.44
1:r:225:SER:N	1:r:317:ASN:HD21	2.13	0.44
1:t:498:SER:OG	1:t:499:GLU:N	2.49	0.44
1:u:450:THR:H	1:u:458:SER:CB	2.30	0.44
1:u:453:GLY:H	1:u:457:GLN:C	2.23	0.44
1:v:262:SER:HB2	1:v:271:HIS:HA	1.99	0.44
1:y:450:THR:H	1:y:458:SER:CB	2.30	0.44
1:y:482:CYS:HB3	1:y:570:PRO:HG2	1.99	0.44
1:2:620:LYS:HB2	1:2:642:PRO:HG2	1.99	0.44
1:4:283:ASP:OD1	1:4:354:LEU:HD22	2.16	0.44
1:7:482:CYS:HB3	1:7:570:PRO:HG2	1.99	0.44
1:C:357:ALA:HB1	1:M:441:TYR:CE2	2.53	0.44
1:C:450:THR:H	1:C:458:SER:CB	2.30	0.44
1:C:496:ASN:ND2	1:M:589:GLN:HA	2.32	0.44
1:C:498:SER:OG	1:C:499:GLU:N	2.49	0.44
1:D:482:CYS:HB3	1:D:570:PRO:HG2	1.99	0.44
1:E:509:HIS:CB	1:E:514:ASP:HA	2.45	0.44
1:E:541:ILE:HD13	1:F:462:PHE:HE1	1.81	0.44
1:F:541:ILE:HD13	1:Q:462:PHE:HE1	1.82	0.44
1:J:283:ASP:OD1	1:J:354:LEU:HD22	2.16	0.44
1:J:441:TYR:CE2	1:L:357:ALA:HB1	2.53	0.44
1:L:620:LYS:HB2	1:L:642:PRO:HG2	1.99	0.44
1:N:583:LEU:O	1:N:588:ARG:HD3	2.17	0.44
1:O:309:LYS:HA	1:O:309:LYS:HD2	1.74	0.44
1:Q:482:CYS:HB3	1:Q:570:PRO:HG2	1.99	0.44
1:T:711:ASP:HB2	1:T:723:PRO:HG2	1.97	0.44
1:Y:262:SER:HB2	1:Y:271:HIS:HA	1.99	0.44
1:Z:283:ASP:OD1	1:Z:354:LEU:HD22	2.16	0.44
1:a:450:THR:H	1:a:458:SER:HB3	1.83	0.44
1:a:583:LEU:O	1:a:588:ARG:HD3	2.17	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:b:283:ASP:OD1	1:b:354:LEU:HD22	2.17	0.44
1:b:482:CYS:HB3	1:b:570:PRO:HG2	1.99	0.44
1:b:701:THR:HG1	1:c:699:GLN:HB2	1.82	0.44
1:d:262:SER:HB2	1:d:271:HIS:HA	1.99	0.44
1:e:262:SER:HB2	1:e:271:HIS:HA	1.99	0.44
1:e:453:GLY:H	1:e:457:GLN:C	2.23	0.44
1:g:262:SER:HB2	1:g:271:HIS:HA	1.99	0.44
1:i:262:SER:HB2	1:i:271:HIS:HA	1.99	0.44
1:i:450:THR:H	1:i:458:SER:HB3	1.83	0.44
1:i:496:ASN:ND2	1:k:589:GLN:HA	2.32	0.44
1:k:482:CYS:HB3	1:k:570:PRO:HG2	1.99	0.44
1:l:482:CYS:HB3	1:l:570:PRO:HG2	1.99	0.44
1:p:309:LYS:HA	1:p:309:LYS:HD2	1.74	0.44
1:q:283:ASP:OD1	1:q:354:LEU:HD22	2.16	0.44
1:r:283:ASP:OD1	1:r:354:LEU:HD22	2.16	0.44
1:t:450:THR:H	1:t:458:SER:CB	2.30	0.44
1:t:482:CYS:HB3	1:t:570:PRO:HG2	1.99	0.44
1:w:262:SER:HB2	1:w:271:HIS:HA	1.99	0.44
1:w:357:ALA:HB1	1:y:441:TYR:CE2	2.53	0.44
1:w:541:ILE:HD13	1:y:462:PHE:HE1	1.82	0.44
1:y:450:THR:H	1:y:458:SER:HB3	1.83	0.44
1:1:450:THR:H	1:1:458:SER:CB	2.30	0.44
1:2:583:LEU:O	1:2:588:ARG:HD3	2.17	0.44
1:3:283:ASP:OD1	1:3:354:LEU:HD22	2.16	0.44
1:3:482:CYS:HB3	1:3:570:PRO:HG2	1.99	0.44
1:5:482:CYS:HB3	1:5:570:PRO:HG2	1.99	0.44
1:7:262:SER:HB2	1:7:271:HIS:HA	1.99	0.44
1:7:583:LEU:O	1:7:588:ARG:HD3	2.17	0.44
1:A:482:CYS:HB3	1:A:570:PRO:HG2	1.99	0.44
1:A:701:THR:HG1	1:F:699:GLN:HB2	1.83	0.44
1:B:283:ASP:OD1	1:B:354:LEU:HD22	2.17	0.44
1:B:450:THR:H	1:B:458:SER:HB3	1.83	0.44
1:B:482:CYS:HB3	1:B:570:PRO:HG2	1.99	0.44
1:E:262:SER:HB2	1:E:271:HIS:HA	1.99	0.44
1:G:441:TYR:CE2	1:I:357:ALA:HB1	2.52	0.44
1:G:462:PHE:HE1	1:I:541:ILE:HD13	1.82	0.44
1:N:450:THR:H	1:N:458:SER:HB3	1.83	0.44
1:O:395:LEU:HD23	1:O:395:LEU:HA	1.83	0.44
1:R:357:ALA:HB1	1:U:441:TYR:CE2	2.53	0.44
1:R:482:CYS:HB3	1:R:570:PRO:HG2	1.99	0.44
1:T:450:THR:H	1:T:458:SER:CB	2.30	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:U:482:CYS:HB3	1:U:570:PRO:HG2	1.99	0.44
1:X:450:THR:H	1:X:458:SER:CB	2.30	0.44
1:d:498:SER:OG	1:d:499:GLU:N	2.49	0.44
1:d:620:LYS:HB2	1:d:642:PRO:HG2	1.99	0.44
1:e:450:THR:H	1:e:458:SER:HB3	1.83	0.44
1:g:450:THR:H	1:g:458:SER:HB3	1.83	0.44
1:i:357:ALA:HB1	1:k:441:TYR:CE2	2.53	0.44
1:j:453:GLY:H	1:j:457:GLN:C	2.23	0.44
1:k:583:LEU:O	1:k:588:ARG:HD3	2.17	0.44
1:n:482:CYS:HB3	1:n:570:PRO:HG2	1.99	0.44
1:o:450:THR:H	1:o:458:SER:HB3	1.83	0.44
1:q:450:THR:H	1:q:458:SER:HB3	1.83	0.44
1:s:450:THR:H	1:s:458:SER:HB3	1.83	0.44
1:v:482:CYS:HB3	1:v:570:PRO:HG2	1.99	0.44
1:x:450:THR:H	1:x:458:SER:CB	2.30	0.44
1:z:262:SER:HB2	1:z:271:HIS:HA	1.99	0.44
1:2:262:SER:HB2	1:2:271:HIS:HA	1.99	0.44
1:2:283:ASP:OD1	1:2:354:LEU:HD22	2.16	0.44
1:4:482:CYS:HB3	1:4:570:PRO:HG2	1.99	0.44
1:5:357:ALA:HB1	1:7:441:TYR:CE2	2.53	0.44
1:5:453:GLY:H	1:5:457:GLN:C	2.23	0.44
1:6:441:TYR:CE2	1:7:357:ALA:HB1	2.53	0.44
1:A:450:THR:H	1:A:458:SER:HB3	1.83	0.44
1:B:357:ALA:HB1	1:L:441:TYR:CE2	2.53	0.44
1:B:701:THR:HG1	1:I:699:GLN:HB2	1.83	0.44
1:C:441:TYR:CE2	1:b:357:ALA:HB1	2.53	0.44
1:H:450:THR:H	1:H:458:SER:HB3	1.83	0.44
1:J:589:GLN:HA	1:L:496:ASN:ND2	2.33	0.44
1:L:450:THR:H	1:L:458:SER:CB	2.30	0.44
1:R:450:THR:H	1:R:458:SER:CB	2.30	0.44
1:T:283:ASP:OD1	1:T:354:LEU:HD22	2.16	0.44
1:T:496:ASN:ND2	1:l:589:GLN:HA	2.33	0.44
1:T:661:PHE:HA	1:i:371:MET:CE	2.39	0.44
1:V:450:THR:H	1:V:458:SER:HB3	1.83	0.44
1:W:441:TYR:CE2	1:Y:357:ALA:HB1	2.53	0.44
1:W:450:THR:H	1:W:458:SER:HB3	1.83	0.44
1:W:462:PHE:HE1	1:Y:541:ILE:HD13	1.82	0.44
1:X:357:ALA:HB1	1:e:441:TYR:CE2	2.53	0.44
1:Z:462:PHE:HE1	1:4:541:ILE:HD13	1.83	0.44
1:a:450:THR:H	1:a:458:SER:CB	2.30	0.44
1:b:450:THR:H	1:b:458:SER:HB3	1.83	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:e:450:THR:H	1:e:458:SER:CB	2.30	0.44
1:f:453:GLY:H	1:f:457:GLN:C	2.23	0.44
1:f:496:ASN:ND2	1:g:589:GLN:HA	2.32	0.44
1:j:262:SER:HB2	1:j:271:HIS:HA	1.99	0.44
1:j:441:TYR:CE2	1:k:357:ALA:HB1	2.52	0.44
1:j:543:GLY:HA2	1:j:557:VAL:HG12	2.00	0.44
1:m:283:ASP:OD1	1:m:354:LEU:HD22	2.16	0.44
1:o:482:CYS:HB3	1:o:570:PRO:HG2	1.99	0.44
1:r:589:GLN:HA	1:s:496:ASN:ND2	2.33	0.44
1:s:283:ASP:OD1	1:s:354:LEU:HD22	2.16	0.44
1:w:450:THR:H	1:w:458:SER:CB	2.30	0.44
1:w:450:THR:H	1:w:458:SER:HB3	1.83	0.44
1:x:583:LEU:O	1:x:588:ARG:HD3	2.17	0.44
1:z:482:CYS:HB3	1:z:570:PRO:HG2	1.99	0.44
1:1:711:ASP:HB2	1:1:723:PRO:HG2	1.97	0.44
1:A:450:THR:H	1:A:458:SER:CB	2.30	0.44
1:A:620:LYS:HB2	1:A:642:PRO:HG2	1.99	0.44
1:B:450:THR:H	1:B:458:SER:CB	2.30	0.44
1:D:357:ALA:HB1	1:P:441:TYR:CE2	2.52	0.44
1:D:436:PRO:HG3	1:N:378:LEU:HG	2.00	0.44
1:E:589:GLN:HA	1:Q:496:ASN:ND2	2.33	0.44
1:H:462:PHE:HE1	1:W:541:ILE:HD13	1.82	0.44
1:H:496:ASN:ND2	1:Y:589:GLN:HA	2.33	0.44
1:H:509:HIS:CB	1:H:514:ASP:HA	2.45	0.44
1:L:498:SER:OG	1:L:499:GLU:N	2.49	0.44
1:N:450:THR:H	1:N:458:SER:CB	2.30	0.44
1:N:509:HIS:CB	1:N:514:ASP:HA	2.45	0.44
1:O:357:ALA:HB1	1:n:441:TYR:CE2	2.53	0.44
1:O:482:CYS:HB3	1:O:570:PRO:HG2	1.99	0.44
1:Q:514:ASP:OD1	1:Q:514:ASP:N	2.37	0.44
1:R:304:TRP:O	1:R:423:SER:OG	2.25	0.44
1:R:462:PHE:HE1	1:S:541:ILE:HD13	1.82	0.44
1:S:436:PRO:HG3	1:U:378:LEU:HG	2.00	0.44
1:X:541:ILE:HD13	1:e:462:PHE:HE1	1.82	0.44
1:X:583:LEU:O	1:X:588:ARG:HD3	2.17	0.44
1:Y:482:CYS:HB3	1:Y:570:PRO:HG2	1.99	0.44
1:Z:441:TYR:CE2	1:4:357:ALA:HB1	2.53	0.44
1:Z:450:THR:H	1:Z:458:SER:HB3	1.83	0.44
1:b:235:MET:HB2	1:b:238:ARG:HG3	2.00	0.44
1:c:462:PHE:HE1	1:o:541:ILE:HD13	1.82	0.44
1:f:262:SER:HB2	1:f:271:HIS:HA	1.99	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:f:395:LEU:HD23	1:f:395:LEU:HA	1.82	0.44
1:h:509:HIS:CB	1:h:514:ASP:HA	2.45	0.44
1:h:583:LEU:O	1:h:588:ARG:HD3	2.17	0.44
1:m:450:THR:H	1:m:458:SER:HB3	1.83	0.44
1:q:541:ILE:HD13	1:s:462:PHE:HE1	1.82	0.44
1:r:450:THR:H	1:r:458:SER:CB	2.30	0.44
1:t:589:GLN:HA	1:u:496:ASN:ND2	2.33	0.44
1:u:441:TYR:CE2	1:v:357:ALA:HB1	2.53	0.44
1:w:462:PHE:HE1	1:x:541:ILE:HD13	1.82	0.44
1:x:462:PHE:HE1	1:y:541:ILE:HD13	1.82	0.44
1:1:283:ASP:OD1	1:1:354:LEU:HD22	2.16	0.44
1:2:498:SER:OG	1:2:499:GLU:N	2.49	0.44
1:2:701:THR:HG1	1:4:699:GLN:HB2	1.83	0.44
1:3:309:LYS:HA	1:3:309:LYS:HD2	1.74	0.44
1:3:541:ILE:HD13	1:4:462:PHE:HE1	1.83	0.44
1:7:235:MET:HB2	1:7:238:ARG:HG3	2.00	0.44
1:A:262:SER:HB2	1:A:271:HIS:HA	1.99	0.44
1:A:541:ILE:HD13	1:I:462:PHE:HE1	1.82	0.44
1:B:235:MET:HB2	1:B:238:ARG:HG3	2.00	0.44
1:C:482:CYS:HB3	1:C:570:PRO:HG2	1.99	0.44
1:D:262:SER:HB2	1:D:271:HIS:HA	1.99	0.44
1:D:514:ASP:OD1	1:D:514:ASP:N	2.37	0.44
1:E:235:MET:HB2	1:E:238:ARG:HG3	2.00	0.44
1:E:378:LEU:HG	1:F:436:PRO:HG3	2.00	0.44
1:G:482:CYS:HB3	1:G:570:PRO:HG2	1.99	0.44
1:G:543:GLY:HA2	1:G:557:VAL:HG12	2.00	0.44
1:H:235:MET:HB2	1:H:238:ARG:HG3	2.00	0.44
1:K:462:PHE:HE1	1:a:541:ILE:HD13	1.83	0.44
1:L:482:CYS:HB3	1:L:570:PRO:HG2	1.99	0.44
1:O:235:MET:HB2	1:O:238:ARG:HG3	2.00	0.44
1:O:583:LEU:O	1:O:588:ARG:HD3	2.17	0.44
1:P:482:CYS:HB3	1:P:570:PRO:HG2	1.99	0.44
1:V:441:TYR:CE2	1:e:357:ALA:HB1	2.53	0.44
1:X:309:LYS:HA	1:X:309:LYS:HD2	1.74	0.44
1:Z:482:CYS:HB3	1:Z:570:PRO:HG2	1.99	0.44
1:Z:541:ILE:HD13	1:3:462:PHE:HE1	1.82	0.44
1:a:620:LYS:HB2	1:a:642:PRO:HG2	1.99	0.44
1:c:541:ILE:HD13	1:p:462:PHE:HE1	1.82	0.44
1:c:589:GLN:HA	1:o:496:ASN:ND2	2.33	0.44
1:d:509:HIS:CB	1:d:514:ASP:HA	2.45	0.44
1:e:509:HIS:CB	1:e:514:ASP:HA	2.45	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:f:543:GLY:HA2	1:f:557:VAL:HG12	2.00	0.44
1:i:436:PRO:HG3	1:j:378:LEU:HG	2.00	0.44
1:l:514:ASP:OD1	1:l:514:ASP:N	2.37	0.44
1:m:589:GLN:HA	1:n:496:ASN:ND2	2.32	0.44
1:o:262:SER:HB2	1:o:271:HIS:HA	1.99	0.44
1:o:450:THR:H	1:o:458:SER:CB	2.30	0.44
1:q:441:TYR:CE2	1:r:357:ALA:HB1	2.53	0.44
1:r:262:SER:HB2	1:r:271:HIS:HA	1.99	0.44
1:r:482:CYS:HB3	1:r:570:PRO:HG2	1.99	0.44
1:r:543:GLY:HA2	1:r:557:VAL:HG12	2.00	0.44
1:t:441:TYR:CE2	1:u:357:ALA:HB1	2.53	0.44
1:u:482:CYS:HB3	1:u:570:PRO:HG2	1.99	0.44
1:w:509:HIS:CB	1:w:514:ASP:HA	2.45	0.44
1:1:461:GLN:HG2	1:2:553:ASP:OD1	2.17	0.44
1:2:509:HIS:CB	1:2:514:ASP:HA	2.45	0.44
1:3:235:MET:HB2	1:3:238:ARG:HG3	2.00	0.44
1:3:583:LEU:O	1:3:588:ARG:HD3	2.17	0.44
1:8:262:SER:HB2	1:8:271:HIS:HA	1.99	0.44
1:8:482:CYS:HB3	1:8:570:PRO:HG2	1.99	0.44
1:B:543:GLY:HA2	1:B:557:VAL:HG12	2.00	0.44
1:C:235:MET:HB2	1:C:238:ARG:HG3	2.00	0.44
1:D:563:GLU:N	1:D:563:GLU:OE1	2.51	0.44
1:H:541:ILE:HD13	1:Y:462:PHE:HE1	1.82	0.44
1:J:563:GLU:N	1:J:563:GLU:OE1	2.51	0.44
1:K:262:SER:HB2	1:K:271:HIS:HA	1.99	0.44
1:K:514:ASP:OD1	1:K:514:ASP:N	2.37	0.44
1:K:563:GLU:OE1	1:K:563:GLU:N	2.51	0.44
1:L:235:MET:HB2	1:L:238:ARG:HG3	2.00	0.44
1:M:563:GLU:OE1	1:M:563:GLU:N	2.51	0.44
1:N:235:MET:HB2	1:N:238:ARG:HG3	2.00	0.44
1:N:620:LYS:HB2	1:N:642:PRO:HG2	1.99	0.44
1:R:589:GLN:HA	1:S:496:ASN:ND2	2.33	0.44
1:S:583:LEU:O	1:S:588:ARG:HD3	2.17	0.44
1:T:509:HIS:CB	1:T:514:ASP:HA	2.45	0.44
1:X:661:PHE:HA	1:f:371:MET:CE	2.38	0.44
1:Y:450:THR:H	1:Y:458:SER:CB	2.30	0.44
1:Y:543:GLY:HA2	1:Y:557:VAL:HG12	2.00	0.44
1:a:235:MET:HB2	1:a:238:ARG:HG3	2.00	0.44
1:a:509:HIS:CB	1:a:514:ASP:HA	2.45	0.44
1:b:450:THR:H	1:b:458:SER:CB	2.30	0.44
1:b:498:SER:OG	1:b:499:GLU:N	2.49	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:b:543:GLY:HA2	1:b:557:VAL:HG12	2.00	0.44
1:l:543:GLY:HA2	1:l:557:VAL:HG12	2.00	0.44
1:n:583:LEU:O	1:n:588:ARG:HD3	2.17	0.44
1:o:583:LEU:O	1:o:588:ARG:HD3	2.17	0.44
1:o:620:LYS:HB2	1:o:642:PRO:HG2	1.99	0.44
1:p:450:THR:H	1:p:458:SER:HB3	1.83	0.44
1:q:462:PHE:HE1	1:r:541:ILE:HD13	1.83	0.44
1:s:235:MET:HB2	1:s:238:ARG:HG3	2.00	0.44
1:u:462:PHE:HE1	1:v:541:ILE:HD13	1.83	0.44
1:z:543:GLY:HA2	1:z:557:VAL:HG12	2.00	0.44
1:6:436:PRO:HG3	1:7:378:LEU:HG	2.00	0.44
1:A:496:ASN:ND2	1:I:589:GLN:HA	2.33	0.44
1:A:518:ASN:O	1:A:519:PRO:C	2.61	0.44
1:C:489:SER:C	1:C:495:ASN:HD21	2.26	0.44
1:D:462:PHE:HE1	1:N:541:ILE:HD13	1.83	0.44
1:D:543:GLY:HA2	1:D:557:VAL:HG12	2.00	0.44
1:F:357:ALA:HB1	1:Q:441:TYR:CE2	2.52	0.44
1:G:235:MET:HB2	1:G:238:ARG:HG3	2.00	0.44
1:H:441:TYR:CE2	1:W:357:ALA:HB1	2.53	0.44
1:H:489:SER:C	1:H:495:ASN:HD21	2.26	0.44
1:I:450:THR:H	1:I:458:SER:CB	2.30	0.44
1:I:482:CYS:HB3	1:I:570:PRO:HG2	1.99	0.44
1:I:518:ASN:O	1:I:519:PRO:C	2.61	0.44
1:J:403:LEU:HD23	1:J:403:LEU:HA	1.84	0.44
1:K:543:GLY:HA2	1:K:557:VAL:HG12	2.00	0.44
1:L:489:SER:C	1:L:495:ASN:HD21	2.26	0.44
1:M:530:GLU:HG2	1:M:533:PHE:CD2	2.53	0.44
1:N:441:TYR:CE2	1:P:357:ALA:HB1	2.52	0.44
1:O:450:THR:H	1:O:458:SER:HB3	1.83	0.44
1:O:563:GLU:OE1	1:O:563:GLU:N	2.51	0.44
1:P:262:SER:HB2	1:P:271:HIS:HA	1.99	0.44
1:Q:450:THR:H	1:Q:458:SER:HB3	1.83	0.44
1:R:378:LEU:HG	1:U:436:PRO:HG3	2.00	0.44
1:R:450:THR:H	1:R:458:SER:HB3	1.83	0.44
1:R:518:ASN:O	1:R:519:PRO:C	2.61	0.44
1:R:543:GLY:HA2	1:R:557:VAL:HG12	2.00	0.44
1:S:482:CYS:HB3	1:S:570:PRO:HG2	1.99	0.44
1:T:530:GLU:HG2	1:T:533:PHE:CD2	2.53	0.44
1:T:620:LYS:HB2	1:T:642:PRO:HG2	1.99	0.44
1:V:378:LEU:HG	1:X:436:PRO:HG3	2.00	0.44
1:V:563:GLU:OE1	1:V:563:GLU:N	2.51	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:W:235:MET:HB2	1:W:238:ARG:HG3	2.00	0.44
1:b:403:LEU:HD23	1:b:403:LEU:HA	1.84	0.44
1:c:357:ALA:HB1	1:p:441:TYR:CE2	2.53	0.44
1:c:450:THR:H	1:c:458:SER:CB	2.30	0.44
1:c:482:CYS:HB3	1:c:570:PRO:HG2	1.99	0.44
1:c:518:ASN:O	1:c:519:PRO:C	2.61	0.44
1:d:518:ASN:O	1:d:519:PRO:C	2.61	0.44
1:d:563:GLU:OE1	1:d:563:GLU:N	2.51	0.44
1:f:269:ASP:O	1:g:432:ARG:NH2	2.51	0.44
1:j:395:LEU:HD23	1:j:395:LEU:HA	1.83	0.44
1:l:563:GLU:OE1	1:l:563:GLU:N	2.51	0.44
1:m:482:CYS:HB3	1:m:570:PRO:HG2	1.99	0.44
1:o:518:ASN:O	1:o:519:PRO:C	2.61	0.44
1:p:235:MET:HB2	1:p:238:ARG:HG3	2.00	0.44
1:p:482:CYS:HB3	1:p:570:PRO:HG2	1.99	0.44
1:p:543:GLY:HA2	1:p:557:VAL:HG12	2.00	0.44
1:q:235:MET:HB2	1:q:238:ARG:HG3	2.00	0.44
1:s:489:SER:C	1:s:495:ASN:HD21	2.26	0.44
1:t:518:ASN:O	1:t:519:PRO:C	2.61	0.44
1:t:543:GLY:HA2	1:t:557:VAL:HG12	2.00	0.44
1:u:583:LEU:O	1:u:588:ARG:HD3	2.17	0.44
1:y:563:GLU:OE1	1:y:563:GLU:N	2.51	0.44
1:1:620:LYS:HB2	1:1:642:PRO:HG2	1.99	0.44
1:2:563:GLU:OE1	1:2:563:GLU:N	2.51	0.44
1:4:583:LEU:O	1:4:588:ARG:HD3	2.17	0.44
1:5:450:THR:H	1:5:458:SER:HB3	1.83	0.44
1:A:583:LEU:O	1:A:588:ARG:HD3	2.17	0.44
1:B:498:SER:OG	1:B:499:GLU:N	2.49	0.44
1:C:450:THR:H	1:C:458:SER:HB3	1.83	0.44
1:C:518:ASN:O	1:C:519:PRO:C	2.61	0.44
1:C:699:GLN:HB2	1:L:701:THR:HG1	1.82	0.44
1:E:462:PHE:HE1	1:Q:541:ILE:HD13	1.82	0.44
1:E:498:SER:OG	1:E:499:GLU:N	2.49	0.44
1:G:309:LYS:HA	1:G:309:LYS:HD2	1.74	0.44
1:G:450:THR:H	1:G:458:SER:HB3	1.83	0.44
1:G:563:GLU:OE1	1:G:563:GLU:N	2.51	0.44
1:G:583:LEU:O	1:G:588:ARG:HD3	2.17	0.44
1:H:357:ALA:HB1	1:Y:441:TYR:CE2	2.53	0.44
1:I:530:GLU:HG2	1:I:533:PHE:CD2	2.53	0.44
1:J:530:GLU:HG2	1:J:533:PHE:CD2	2.53	0.44
1:K:235:MET:HB2	1:K:238:ARG:HG3	2.00	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:450:THR:H	1:K:458:SER:HB3	1.83	0.44
1:K:541:ILE:HD13	1:8:462:PHE:CE1	2.52	0.44
1:K:620:LYS:HB2	1:K:642:PRO:HG2	1.99	0.44
1:M:309:LYS:HD2	1:M:309:LYS:HA	1.74	0.44
1:O:262:SER:HB2	1:O:271:HIS:HA	1.99	0.44
1:P:235:MET:HB2	1:P:238:ARG:HG3	2.00	0.44
1:X:235:MET:HB2	1:X:238:ARG:HG3	2.00	0.44
1:Y:518:ASN:O	1:Y:519:PRO:C	2.61	0.44
1:Z:262:SER:HB2	1:Z:271:HIS:HA	1.99	0.44
1:Z:563:GLU:OE1	1:Z:563:GLU:N	2.51	0.44
1:a:530:GLU:HG2	1:a:533:PHE:CD2	2.53	0.44
1:f:482:CYS:HB3	1:f:570:PRO:HG2	1.99	0.44
1:g:357:ALA:HB1	1:h:441:TYR:CE2	2.53	0.44
1:i:543:GLY:HA2	1:i:557:VAL:HG12	2.00	0.44
1:m:441:TYR:CE2	1:n:357:ALA:HB1	2.53	0.44
1:m:530:GLU:HG2	1:m:533:PHE:CD2	2.53	0.44
1:m:563:GLU:OE1	1:m:563:GLU:N	2.51	0.44
1:n:530:GLU:HG2	1:n:533:PHE:CD2	2.53	0.44
1:p:563:GLU:OE1	1:p:563:GLU:N	2.51	0.44
1:q:357:ALA:HB1	1:s:441:TYR:CE2	2.53	0.44
1:r:462:PHE:HE1	1:s:541:ILE:HD13	1.82	0.44
1:r:518:ASN:O	1:r:519:PRO:C	2.61	0.44
1:t:450:THR:H	1:t:458:SER:HB3	1.83	0.44
1:t:462:PHE:HE1	1:u:541:ILE:HD13	1.83	0.44
1:w:436:PRO:HG3	1:x:378:LEU:HG	1.99	0.44
1:x:436:PRO:HG3	1:y:378:LEU:HG	2.00	0.44
1:x:450:THR:H	1:x:458:SER:HB3	1.83	0.44
1:z:357:ALA:HB1	1:2:441:TYR:CE2	2.52	0.44
1:z:489:SER:C	1:z:495:ASN:HD21	2.26	0.44
1:z:563:GLU:N	1:z:563:GLU:OE1	2.51	0.44
1:1:450:THR:H	1:1:458:SER:HB3	1.83	0.44
1:1:530:GLU:HG2	1:1:533:PHE:CD2	2.53	0.44
1:3:262:SER:HB2	1:3:271:HIS:HA	1.99	0.44
1:3:450:THR:H	1:3:458:SER:HB3	1.83	0.44
1:3:563:GLU:OE1	1:3:563:GLU:N	2.51	0.44
1:5:403:LEU:HD23	1:5:403:LEU:HA	1.84	0.44
1:5:514:ASP:OD1	1:5:514:ASP:N	2.37	0.44
1:5:583:LEU:O	1:5:588:ARG:HD3	2.17	0.44
1:6:450:THR:H	1:6:458:SER:HB3	1.83	0.44
1:6:525:SER:OG	1:6:561:ASP:OD1	2.16	0.44
1:6:620:LYS:HB2	1:6:642:PRO:HG2	1.99	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:8:235:MET:HB2	1:8:238:ARG:HG3	2.00	0.44
1:A:395:LEU:HD23	1:A:395:LEU:HA	1.82	0.43
1:A:530:GLU:HG2	1:A:533:PHE:CD2	2.53	0.43
1:B:238:ARG:HD2	1:B:683:GLU:OE2	2.18	0.43
1:D:235:MET:HB2	1:D:238:ARG:HG3	2.00	0.43
1:F:450:THR:H	1:F:458:SER:HB3	1.83	0.43
1:H:543:GLY:HA2	1:H:557:VAL:HG12	2.00	0.43
1:H:589:GLN:HA	1:W:496:ASN:ND2	2.33	0.43
1:J:262:SER:HB2	1:J:271:HIS:HA	1.99	0.43
1:J:543:GLY:HA2	1:J:557:VAL:HG12	2.00	0.43
1:J:583:LEU:O	1:J:588:ARG:HD3	2.17	0.43
1:L:450:THR:H	1:L:458:SER:HB3	1.83	0.43
1:L:518:ASN:O	1:L:519:PRO:C	2.61	0.43
1:M:262:SER:HB2	1:M:271:HIS:HA	1.99	0.43
1:M:583:LEU:O	1:M:588:ARG:HD3	2.17	0.43
1:N:530:GLU:HG2	1:N:533:PHE:CD2	2.53	0.43
1:P:489:SER:C	1:P:495:ASN:HD21	2.26	0.43
1:Q:583:LEU:O	1:Q:588:ARG:HD3	2.17	0.43
1:R:413:TYR:CG	1:R:414:THR:N	2.86	0.43
1:R:563:GLU:OE1	1:R:563:GLU:N	2.51	0.43
1:S:530:GLU:HG2	1:S:533:PHE:CD2	2.53	0.43
1:T:450:THR:H	1:T:458:SER:HB3	1.83	0.43
1:T:530:GLU:C	1:T:532:LYS:N	2.77	0.43
1:T:589:GLN:HA	1:d:496:ASN:ND2	2.32	0.43
1:U:294:ARG:HH12	1:U:298:ARG:HB2	1.83	0.43
1:U:583:LEU:O	1:U:588:ARG:HD3	2.17	0.43
1:U:620:LYS:HB2	1:U:642:PRO:HG2	1.99	0.43
1:V:530:GLU:HG2	1:V:533:PHE:CD2	2.53	0.43
1:V:541:ILE:HD13	1:X:462:PHE:HE1	1.83	0.43
1:X:294:ARG:HH12	1:X:298:ARG:HB2	1.83	0.43
1:X:620:LYS:HB2	1:X:642:PRO:HG2	1.99	0.43
1:Y:582:ASN:HB2	1:Y:588:ARG:NE	2.33	0.43
1:Z:235:MET:HB2	1:Z:238:ARG:HG3	2.00	0.43
1:Z:589:GLN:HA	1:4:496:ASN:ND2	2.33	0.43
1:a:413:TYR:CG	1:a:414:THR:N	2.86	0.43
1:c:530:GLU:HG2	1:c:533:PHE:CD2	2.53	0.43
1:g:235:MET:HB2	1:g:238:ARG:HG3	2.00	0.43
1:g:543:GLY:HA2	1:g:557:VAL:HG12	2.00	0.43
1:h:530:GLU:HG2	1:h:533:PHE:CD2	2.53	0.43
1:j:582:ASN:HB2	1:j:588:ARG:NE	2.33	0.43
1:m:235:MET:HB2	1:m:238:ARG:HG3	2.00	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:m:262:SER:HB2	1:m:271:HIS:HA	1.99	0.43
1:m:413:TYR:CG	1:m:414:THR:N	2.86	0.43
1:m:620:LYS:HB2	1:m:642:PRO:HG2	1.99	0.43
1:n:294:ARG:HH12	1:n:298:ARG:HB2	1.83	0.43
1:o:530:GLU:HG2	1:o:533:PHE:CD2	2.53	0.43
1:p:620:LYS:HB2	1:p:642:PRO:HG2	1.99	0.43
1:r:441:TYR:CE2	1:s:357:ALA:HB1	2.53	0.43
1:s:543:GLY:HA2	1:s:557:VAL:HG12	2.00	0.43
1:u:294:ARG:HH12	1:u:298:ARG:HB2	1.83	0.43
1:u:403:LEU:HD23	1:u:403:LEU:HA	1.84	0.43
1:w:378:LEU:HG	1:y:436:PRO:HG3	2.00	0.43
1:w:496:ASN:ND2	1:y:589:GLN:HA	2.33	0.43
1:w:582:ASN:HB2	1:w:588:ARG:NE	2.33	0.43
1:x:235:MET:HB2	1:x:238:ARG:HG3	2.00	0.43
1:x:262:SER:HB2	1:x:271:HIS:HA	1.99	0.43
1:x:336:LEU:HD13	1:x:336:LEU:HA	1.90	0.43
1:x:482:CYS:HB3	1:x:570:PRO:HG2	1.99	0.43
1:x:620:LYS:HB2	1:x:642:PRO:HG2	1.99	0.43
1:y:530:GLU:HG2	1:y:533:PHE:CD2	2.53	0.43
1:z:514:ASP:N	1:z:514:ASP:OD1	2.37	0.43
1:1:509:HIS:CB	1:1:514:ASP:HA	2.45	0.43
1:1:530:GLU:C	1:1:532:LYS:N	2.77	0.43
1:2:482:CYS:HB3	1:2:570:PRO:HG2	1.99	0.43
1:2:518:ASN:O	1:2:519:PRO:C	2.61	0.43
1:4:294:ARG:HH12	1:4:298:ARG:HB2	1.83	0.43
1:4:530:GLU:HG2	1:4:533:PHE:CD2	2.53	0.43
1:5:530:GLU:HG2	1:5:533:PHE:CD2	2.53	0.43
1:6:462:PHE:HE1	1:7:541:ILE:HD13	1.82	0.43
1:7:498:SER:OG	1:7:499:GLU:N	2.49	0.43
1:8:489:SER:C	1:8:495:ASN:HD21	2.26	0.43
1:A:462:PHE:HE1	1:G:541:ILE:HD13	1.82	0.43
1:B:509:HIS:CB	1:B:514:ASP:HA	2.45	0.43
1:B:541:ILE:HD13	1:L:462:PHE:HE1	1.82	0.43
1:D:441:TYR:CE2	1:N:357:ALA:HB1	2.53	0.43
1:D:450:THR:H	1:D:458:SER:HB3	1.83	0.43
1:D:620:LYS:HB2	1:D:642:PRO:HG2	1.99	0.43
1:E:436:PRO:HG3	1:Q:378:LEU:HG	2.00	0.43
1:F:371:MET:CE	1:G:661:PHE:HA	2.38	0.43
1:F:489:SER:C	1:F:495:ASN:HD21	2.26	0.43
1:F:518:ASN:O	1:F:519:PRO:C	2.61	0.43
1:F:620:LYS:HB2	1:F:642:PRO:HG2	1.99	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:489:SER:C	1:G:495:ASN:HD21	2.26	0.43
1:G:620:LYS:HB2	1:G:642:PRO:HG2	1.99	0.43
1:H:582:ASN:HB2	1:H:588:ARG:NE	2.33	0.43
1:I:395:LEU:HD23	1:I:395:LEU:HA	1.83	0.43
1:I:582:ASN:HB2	1:I:588:ARG:NE	2.34	0.43
1:M:543:GLY:HA2	1:M:557:VAL:HG12	2.00	0.43
1:N:413:TYR:CG	1:N:414:THR:N	2.86	0.43
1:N:436:PRO:HG3	1:P:378:LEU:HG	2.00	0.43
1:N:482:CYS:HB3	1:N:570:PRO:HG2	1.99	0.43
1:O:238:ARG:HD2	1:O:683:GLU:OE2	2.19	0.43
1:O:462:PHE:HE1	1:m:541:ILE:HD13	1.82	0.43
1:O:530:GLU:HG2	1:O:533:PHE:CD2	2.53	0.43
1:P:336:LEU:HD13	1:P:336:LEU:HA	1.91	0.43
1:Q:530:GLU:HG2	1:Q:533:PHE:CD2	2.53	0.43
1:S:294:ARG:HH12	1:S:298:ARG:HB2	1.83	0.43
1:S:309:LYS:HD2	1:S:309:LYS:HA	1.74	0.43
1:T:543:GLY:HA2	1:T:557:VAL:HG12	2.00	0.43
1:U:238:ARG:HD2	1:U:683:GLU:OE2	2.19	0.43
1:V:413:TYR:CG	1:V:414:THR:N	2.86	0.43
1:W:620:LYS:HB2	1:W:642:PRO:HG2	1.99	0.43
1:X:262:SER:HB2	1:X:271:HIS:HA	1.99	0.43
1:X:482:CYS:HB3	1:X:570:PRO:HG2	1.99	0.43
1:Y:413:TYR:CG	1:Y:414:THR:N	2.86	0.43
1:Z:413:TYR:CG	1:Z:414:THR:N	2.86	0.43
1:Z:530:GLU:HG2	1:Z:533:PHE:CD2	2.53	0.43
1:Z:543:GLY:HA2	1:Z:557:VAL:HG12	2.00	0.43
1:a:543:GLY:HA2	1:a:557:VAL:HG12	2.00	0.43
1:b:238:ARG:HD2	1:b:683:GLU:OE2	2.19	0.43
1:b:509:HIS:CB	1:b:514:ASP:HA	2.45	0.43
1:c:582:ASN:HB2	1:c:588:ARG:NE	2.34	0.43
1:d:235:MET:HB2	1:d:238:ARG:HG3	2.00	0.43
1:d:482:CYS:HB3	1:d:570:PRO:HG2	1.99	0.43
1:e:582:ASN:HB2	1:e:588:ARG:NE	2.34	0.43
1:f:582:ASN:HB2	1:f:588:ARG:NE	2.33	0.43
1:h:489:SER:C	1:h:495:ASN:HD21	2.26	0.43
1:i:235:MET:HB2	1:i:238:ARG:HG3	2.00	0.43
1:i:378:LEU:HG	1:k:436:PRO:HG3	2.00	0.43
1:i:541:ILE:HD13	1:k:462:PHE:HE1	1.82	0.43
1:j:436:PRO:HG3	1:k:378:LEU:HG	2.00	0.43
1:j:482:CYS:HB3	1:j:570:PRO:HG2	1.99	0.43
1:k:489:SER:C	1:k:495:ASN:HD21	2.26	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:k:530:GLU:C	1:k:532:LYS:N	2.77	0.43
1:k:530:GLU:HG2	1:k:533:PHE:CD2	2.53	0.43
1:l:294:ARG:HH12	1:l:298:ARG:HB2	1.83	0.43
1:l:489:SER:C	1:l:495:ASN:HD21	2.26	0.43
1:p:489:SER:C	1:p:495:ASN:HD21	2.26	0.43
1:p:518:ASN:O	1:p:519:PRO:C	2.61	0.43
1:p:583:LEU:O	1:p:588:ARG:HD3	2.17	0.43
1:p:661:PHE:HA	1:6:371:MET:CE	2.39	0.43
1:r:413:TYR:CG	1:r:414:THR:N	2.86	0.43
1:r:582:ASN:HB2	1:r:588:ARG:NE	2.34	0.43
1:s:582:ASN:HB2	1:s:588:ARG:NE	2.34	0.43
1:t:413:TYR:CG	1:t:414:THR:N	2.86	0.43
1:t:563:GLU:OE1	1:t:563:GLU:N	2.51	0.43
1:u:530:GLU:HG2	1:u:533:PHE:CD2	2.53	0.43
1:v:238:ARG:HD2	1:v:683:GLU:OE2	2.19	0.43
1:v:309:LYS:HD2	1:v:309:LYS:HA	1.74	0.43
1:w:238:ARG:HD2	1:w:683:GLU:OE2	2.19	0.43
1:x:582:ASN:HB2	1:x:588:ARG:NE	2.33	0.43
1:y:238:ARG:HD2	1:y:683:GLU:OE2	2.19	0.43
1:y:413:TYR:CG	1:y:414:THR:N	2.86	0.43
1:z:238:ARG:HD2	1:z:683:GLU:OE2	2.19	0.43
1:z:378:LEU:HG	1:2:436:PRO:HG3	2.00	0.43
1:2:235:MET:HB2	1:2:238:ARG:HG3	2.00	0.43
1:3:530:GLU:HG2	1:3:533:PHE:CD2	2.53	0.43
1:4:582:ASN:HB2	1:4:588:ARG:NE	2.34	0.43
1:5:269:ASP:O	1:7:432:ARG:NH2	2.52	0.43
1:6:489:SER:C	1:6:495:ASN:HD21	2.26	0.43
1:6:518:ASN:O	1:6:519:PRO:C	2.61	0.43
1:7:413:TYR:CG	1:7:414:THR:N	2.86	0.43
1:A:378:LEU:HG	1:I:436:PRO:HG3	2.00	0.43
1:C:462:PHE:HE1	1:b:541:ILE:HD13	1.82	0.43
1:C:541:ILE:HD13	1:M:462:PHE:HE1	1.83	0.43
1:D:432:ARG:NH2	1:N:269:ASP:O	2.51	0.43
1:D:489:SER:C	1:D:495:ASN:HD21	2.26	0.43
1:D:530:GLU:HG2	1:D:533:PHE:CD2	2.53	0.43
1:F:378:LEU:HG	1:Q:436:PRO:HG3	2.00	0.43
1:G:518:ASN:O	1:G:519:PRO:C	2.61	0.43
1:J:462:PHE:HE1	1:L:541:ILE:HD13	1.83	0.43
1:J:620:LYS:HB2	1:J:642:PRO:HG2	1.99	0.43
1:K:413:TYR:CG	1:K:414:THR:N	2.86	0.43
1:K:489:SER:C	1:K:495:ASN:HD21	2.26	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:262:SER:HB2	1:L:271:HIS:HA	1.99	0.43
1:M:450:THR:H	1:M:458:SER:HB3	1.83	0.43
1:M:620:LYS:HB2	1:M:642:PRO:HG2	1.99	0.43
1:N:543:GLY:HA2	1:N:557:VAL:HG12	2.00	0.43
1:O:710:VAL:HG13	1:O:713:THR:HB	2.01	0.43
1:R:436:PRO:HG3	1:S:378:LEU:HG	2.00	0.43
1:R:582:ASN:HB2	1:R:588:ARG:NE	2.34	0.43
1:T:413:TYR:CG	1:T:414:THR:N	2.86	0.43
1:U:235:MET:HB2	1:U:238:ARG:HG3	2.00	0.43
1:U:543:GLY:HA2	1:U:557:VAL:HG12	2.00	0.43
1:V:238:ARG:HD2	1:V:683:GLU:OE2	2.19	0.43
1:V:582:ASN:HB2	1:V:588:ARG:NE	2.34	0.43
1:W:701:THR:HG1	1:X:699:GLN:HB2	1.83	0.43
1:X:413:TYR:CG	1:X:414:THR:N	2.86	0.43
1:X:450:THR:H	1:X:458:SER:HB3	1.83	0.43
1:X:453:GLY:H	1:X:457:GLN:C	2.23	0.43
1:Y:530:GLU:C	1:Y:532:LYS:N	2.77	0.43
1:Y:530:GLU:HG2	1:Y:533:PHE:CD2	2.53	0.43
1:Z:620:LYS:HB2	1:Z:642:PRO:HG2	1.99	0.43
1:Z:633:LEU:HB2	1:3:476:ASN:O	2.18	0.43
1:a:482:CYS:HB3	1:a:570:PRO:HG2	1.99	0.43
1:a:563:GLU:OE1	1:a:563:GLU:N	2.51	0.43
1:a:710:VAL:HG13	1:a:713:THR:HB	2.01	0.43
1:c:496:ASN:ND2	1:p:589:GLN:HA	2.32	0.43
1:c:543:GLY:HA2	1:c:557:VAL:HG12	2.00	0.43
1:d:462:PHE:HE1	1:l:541:ILE:HD13	1.82	0.43
1:e:238:ARG:HD2	1:e:683:GLU:OE2	2.19	0.43
1:f:235:MET:HB2	1:f:238:ARG:HG3	2.00	0.43
1:f:620:LYS:HB2	1:f:642:PRO:HG2	1.99	0.43
1:g:582:ASN:HB2	1:g:588:ARG:NE	2.34	0.43
1:h:235:MET:HB2	1:h:238:ARG:HG3	2.00	0.43
1:h:530:GLU:C	1:h:532:LYS:N	2.77	0.43
1:h:543:GLY:HA2	1:h:557:VAL:HG12	2.00	0.43
1:j:371:MET:CE	1:x:661:PHE:HA	2.38	0.43
1:j:620:LYS:HB2	1:j:642:PRO:HG2	1.99	0.43
1:k:450:THR:H	1:k:458:SER:HB3	1.83	0.43
1:l:238:ARG:HD2	1:l:683:GLU:OE2	2.19	0.43
1:l:620:LYS:HB2	1:l:642:PRO:HG2	1.99	0.43
1:n:413:TYR:CG	1:n:414:THR:N	2.86	0.43
1:n:582:ASN:HB2	1:n:588:ARG:NE	2.34	0.43
1:o:710:VAL:HG13	1:o:713:THR:HB	2.01	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:q:413:TYR:CG	1:q:414:THR:N	2.86	0.43
1:q:620:LYS:HB2	1:q:642:PRO:HG2	1.99	0.43
1:r:450:THR:H	1:r:458:SER:HB3	1.83	0.43
1:t:582:ASN:HB2	1:t:588:ARG:NE	2.33	0.43
1:u:421:HIS:HB2	1:u:637:PHE:CE1	2.54	0.43
1:u:701:THR:HG1	1:l:699:GLN:HB2	1.83	0.43
1:v:294:ARG:HH12	1:v:298:ARG:HB2	1.83	0.43
1:v:543:GLY:HA2	1:v:557:VAL:HG12	2.00	0.43
1:v:583:LEU:O	1:v:588:ARG:HD3	2.17	0.43
1:v:620:LYS:HB2	1:v:642:PRO:HG2	1.99	0.43
1:w:620:LYS:HB2	1:w:642:PRO:HG2	1.99	0.43
1:x:294:ARG:HH12	1:x:298:ARG:HB2	1.83	0.43
1:x:413:TYR:CG	1:x:414:THR:N	2.86	0.43
1:y:582:ASN:HB2	1:y:588:ARG:NE	2.34	0.43
1:z:620:LYS:HB2	1:z:642:PRO:HG2	1.99	0.43
1:1:413:TYR:CG	1:1:414:THR:N	2.86	0.43
1:1:563:GLU:OE1	1:1:563:GLU:N	2.51	0.43
1:3:238:ARG:HD2	1:3:683:GLU:OE2	2.19	0.43
1:4:413:TYR:CG	1:4:414:THR:N	2.86	0.43
1:5:238:ARG:HD2	1:5:683:GLU:OE2	2.19	0.43
1:A:710:VAL:HG13	1:A:713:THR:HB	2.01	0.43
1:B:403:LEU:HD23	1:B:403:LEU:HA	1.84	0.43
1:B:563:GLU:OE1	1:B:563:GLU:N	2.51	0.43
1:C:262:SER:HB2	1:C:271:HIS:HA	1.99	0.43
1:D:413:TYR:CG	1:D:414:THR:N	2.86	0.43
1:E:413:TYR:CG	1:E:414:THR:N	2.86	0.43
1:E:518:ASN:O	1:E:519:PRO:C	2.61	0.43
1:E:582:ASN:HB2	1:E:588:ARG:NE	2.33	0.43
1:E:701:THR:HG1	1:P:699:GLN:HB2	1.83	0.43
1:F:262:SER:HB2	1:F:271:HIS:HA	1.99	0.43
1:F:413:TYR:CG	1:F:414:THR:N	2.86	0.43
1:F:509:HIS:CB	1:F:514:ASP:HA	2.45	0.43
1:F:582:ASN:HB2	1:F:588:ARG:NE	2.34	0.43
1:G:238:ARG:HD2	1:G:683:GLU:OE2	2.19	0.43
1:G:262:SER:HB2	1:G:271:HIS:HA	1.99	0.43
1:G:530:GLU:HG2	1:G:533:PHE:CD2	2.53	0.43
1:I:543:GLY:HA2	1:I:557:VAL:HG12	2.00	0.43
1:K:421:HIS:HB2	1:K:637:PHE:CE1	2.54	0.43
1:K:530:GLU:HG2	1:K:533:PHE:CD2	2.53	0.43
1:N:563:GLU:OE1	1:N:563:GLU:N	2.51	0.43
1:N:710:VAL:HG13	1:N:713:THR:HB	2.01	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:O:518:ASN:O	1:O:519:PRO:C	2.61	0.43
1:O:582:ASN:HB2	1:O:588:ARG:NE	2.34	0.43
1:O:589:GLN:HA	1:m:496:ASN:ND2	2.32	0.43
1:Q:238:ARG:HD2	1:Q:683:GLU:OE2	2.19	0.43
1:Q:543:GLY:HA2	1:Q:557:VAL:HG12	2.00	0.43
1:Q:620:LYS:HB2	1:Q:642:PRO:HG2	1.99	0.43
1:S:262:SER:HB2	1:S:271:HIS:HA	1.99	0.43
1:S:421:HIS:HB2	1:S:637:PHE:CE1	2.54	0.43
1:U:421:HIS:HB2	1:U:637:PHE:CE1	2.54	0.43
1:W:413:TYR:CG	1:W:414:THR:N	2.86	0.43
1:X:582:ASN:HB2	1:X:588:ARG:NE	2.33	0.43
1:Y:235:MET:HB2	1:Y:238:ARG:HG3	2.00	0.43
1:Y:450:THR:H	1:Y:458:SER:HB3	1.83	0.43
1:Z:496:ASN:ND2	1:3:589:GLN:HA	2.32	0.43
1:b:563:GLU:OE1	1:b:563:GLU:N	2.51	0.43
1:b:710:VAL:HG13	1:b:713:THR:HB	2.01	0.43
1:e:235:MET:HB2	1:e:238:ARG:HG3	2.00	0.43
1:e:482:CYS:HB3	1:e:570:PRO:HG2	1.99	0.43
1:f:476:ASN:O	1:h:633:LEU:HB2	2.19	0.43
1:i:582:ASN:HB2	1:i:588:ARG:NE	2.34	0.43
1:j:235:MET:HB2	1:j:238:ARG:HG3	2.00	0.43
1:j:699:GLN:HB2	1:w:701:THR:HG1	1.83	0.43
1:k:235:MET:HB2	1:k:238:ARG:HG3	2.00	0.43
1:k:543:GLY:HA2	1:k:557:VAL:HG12	2.00	0.43
1:m:543:GLY:HA2	1:m:557:VAL:HG12	2.00	0.43
1:n:238:ARG:HD2	1:n:683:GLU:OE2	2.18	0.43
1:n:710:VAL:HG13	1:n:713:THR:HB	2.01	0.43
1:o:699:GLN:HB2	1:6:701:THR:HG1	1.82	0.43
1:r:235:MET:HB2	1:r:238:ARG:HG3	2.00	0.43
1:r:530:GLU:C	1:r:532:LYS:N	2.77	0.43
1:r:530:GLU:HG2	1:r:533:PHE:CD2	2.53	0.43
1:u:262:SER:HB2	1:u:271:HIS:HA	1.99	0.43
1:u:309:LYS:HA	1:u:309:LYS:HD2	1.74	0.43
1:v:235:MET:HB2	1:v:238:ARG:HG3	2.00	0.43
1:v:421:HIS:HB2	1:v:637:PHE:CE1	2.54	0.43
1:x:589:GLN:HA	1:y:496:ASN:ND2	2.33	0.43
1:z:294:ARG:HH12	1:z:298:ARG:HB2	1.83	0.43
1:z:496:ASN:ND2	1:2:589:GLN:HA	2.33	0.43
1:1:262:SER:HB2	1:1:271:HIS:HA	1.99	0.43
1:1:543:GLY:HA2	1:1:557:VAL:HG12	2.00	0.43
1:3:582:ASN:HB2	1:3:588:ARG:NE	2.34	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:4:620:LYS:HB2	1:4:642:PRO:HG2	1.99	0.43
1:5:620:LYS:HB2	1:5:642:PRO:HG2	1.99	0.43
1:6:241:THR:HG21	1:6:291:PHE:CE1	2.44	0.43
1:6:413:TYR:CG	1:6:414:THR:N	2.86	0.43
1:6:582:ASN:HB2	1:6:588:ARG:NE	2.34	0.43
1:A:436:PRO:HG3	1:G:378:LEU:HG	2.00	0.43
1:A:530:GLU:C	1:A:532:LYS:N	2.77	0.43
1:A:582:ASN:HB2	1:A:588:ARG:NE	2.34	0.43
1:B:421:HIS:HB2	1:B:637:PHE:CE1	2.54	0.43
1:B:710:VAL:HG13	1:B:713:THR:HB	2.01	0.43
1:C:432:ARG:NH2	1:b:269:ASP:O	2.52	0.43
1:D:294:ARG:HH12	1:D:298:ARG:HB2	1.83	0.43
1:D:421:HIS:HB2	1:D:637:PHE:CE1	2.54	0.43
1:F:294:ARG:HH12	1:F:298:ARG:HB2	1.83	0.43
1:F:421:HIS:HB2	1:F:637:PHE:CE1	2.54	0.43
1:F:530:GLU:HG2	1:F:533:PHE:CD2	2.53	0.43
1:F:661:PHE:HA	1:R:371:MET:CE	2.37	0.43
1:G:413:TYR:CG	1:G:414:THR:N	2.86	0.43
1:G:436:PRO:HG3	1:I:378:LEU:HG	2.00	0.43
1:J:450:THR:H	1:J:458:SER:HB3	1.83	0.43
1:K:432:ARG:NH2	1:a:269:ASP:O	2.52	0.43
1:K:436:PRO:HG3	1:a:378:LEU:HG	2.01	0.43
1:O:530:GLU:C	1:O:532:LYS:N	2.77	0.43
1:P:530:GLU:C	1:P:532:LYS:N	2.77	0.43
1:Q:262:SER:HB2	1:Q:271:HIS:HA	1.99	0.43
1:Q:403:LEU:HD23	1:Q:403:LEU:HA	1.84	0.43
1:R:541:ILE:HD13	1:U:462:PHE:HE1	1.82	0.43
1:S:413:TYR:CG	1:S:414:THR:N	2.86	0.43
1:T:262:SER:HB2	1:T:271:HIS:HA	1.99	0.43
1:U:710:VAL:HG13	1:U:713:THR:HB	2.01	0.43
1:V:262:SER:HB2	1:V:271:HIS:HA	1.99	0.43
1:V:357:ALA:HB1	1:X:441:TYR:CE2	2.53	0.43
1:V:462:PHE:HE1	1:e:541:ILE:HD13	1.83	0.43
1:V:489:SER:C	1:V:495:ASN:HD21	2.26	0.43
1:V:589:GLN:HA	1:e:496:ASN:ND2	2.33	0.43
1:X:378:LEU:HG	1:e:436:PRO:HG3	2.00	0.43
1:X:530:GLU:HG2	1:X:533:PHE:CD2	2.53	0.43
1:Y:238:ARG:HD2	1:Y:683:GLU:OE2	2.19	0.43
1:Z:357:ALA:HB1	1:3:441:TYR:CE2	2.53	0.43
1:b:421:HIS:HB2	1:b:637:PHE:CE1	2.54	0.43
1:c:436:PRO:HG3	1:o:378:LEU:HG	2.00	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:d:413:TYR:CG	1:d:414:THR:N	2.86	0.43
1:d:476:ASN:O	1:l:633:LEU:HB2	2.19	0.43
1:d:489:SER:C	1:d:495:ASN:HD21	2.26	0.43
1:e:620:LYS:HB2	1:e:642:PRO:HG2	1.99	0.43
1:g:489:SER:C	1:g:495:ASN:HD21	2.26	0.43
1:g:563:GLU:OE1	1:g:563:GLU:N	2.51	0.43
1:h:421:HIS:HB2	1:h:637:PHE:CE1	2.54	0.43
1:h:450:THR:H	1:h:458:SER:HB3	1.83	0.43
1:i:441:TYR:CE2	1:j:357:ALA:HB1	2.52	0.43
1:i:489:SER:C	1:i:495:ASN:HD21	2.26	0.43
1:i:518:ASN:O	1:i:519:PRO:C	2.61	0.43
1:i:563:GLU:OE1	1:i:563:GLU:N	2.51	0.43
1:j:421:HIS:HB2	1:j:637:PHE:CE1	2.54	0.43
1:m:421:HIS:HB2	1:m:637:PHE:CE1	2.54	0.43
1:o:582:ASN:HB2	1:o:588:ARG:NE	2.33	0.43
1:o:589:GLN:HA	1:p:496:ASN:ND2	2.33	0.43
1:p:413:TYR:CG	1:p:414:THR:N	2.86	0.43
1:q:496:ASN:ND2	1:s:589:GLN:HA	2.33	0.43
1:t:421:HIS:HB2	1:t:637:PHE:CE1	2.54	0.43
1:t:436:PRO:HG3	1:u:378:LEU:HG	2.00	0.43
1:u:413:TYR:CG	1:u:414:THR:N	2.86	0.43
1:v:710:VAL:HG13	1:v:713:THR:HB	2.01	0.43
1:w:482:CYS:HB3	1:w:570:PRO:HG2	1.99	0.43
1:w:633:LEU:HB2	1:y:476:ASN:O	2.19	0.43
1:x:441:TYR:CE2	1:y:357:ALA:HB1	2.53	0.43
1:x:563:GLU:OE1	1:x:563:GLU:N	2.51	0.43
1:2:710:VAL:HG13	1:2:713:THR:HB	2.01	0.43
1:3:357:ALA:HB1	1:4:441:TYR:CE2	2.54	0.43
1:3:530:GLU:C	1:3:532:LYS:N	2.77	0.43
1:3:543:GLY:HA2	1:3:557:VAL:HG12	2.00	0.43
1:4:235:MET:HB2	1:4:238:ARG:HG3	2.00	0.43
1:4:238:ARG:HD2	1:4:683:GLU:OE2	2.19	0.43
1:5:262:SER:HB2	1:5:271:HIS:HA	1.99	0.43
1:5:541:ILE:HD13	1:7:462:PHE:HE1	1.83	0.43
1:5:543:GLY:HA2	1:5:557:VAL:HG12	2.00	0.43
1:6:262:SER:HB2	1:6:271:HIS:HA	1.99	0.43
1:6:294:ARG:HH12	1:6:298:ARG:HB2	1.84	0.43
1:6:421:HIS:HB2	1:6:637:PHE:CE1	2.54	0.43
1:7:518:ASN:O	1:7:519:PRO:C	2.61	0.43
1:7:699:GLN:HB2	1:8:701:THR:HG1	1.82	0.43
1:8:530:GLU:C	1:8:532:LYS:N	2.77	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:589:GLN:HA	1:G:496:ASN:ND2	2.33	0.43
1:B:309:LYS:HA	1:B:309:LYS:HD2	1.74	0.43
1:C:294:ARG:HH12	1:C:298:ARG:HB2	1.84	0.43
1:C:589:GLN:HA	1:b:496:ASN:ND2	2.33	0.43
1:I:421:HIS:HB2	1:I:637:PHE:CE1	2.54	0.43
1:I:530:GLU:C	1:I:532:LYS:N	2.77	0.43
1:J:453:GLY:H	1:J:457:GLN:C	2.23	0.43
1:K:441:TYR:CE2	1:a:357:ALA:HB1	2.53	0.43
1:L:294:ARG:HH12	1:L:298:ARG:HB2	1.84	0.43
1:L:563:GLU:OE1	1:L:563:GLU:N	2.51	0.43
1:N:530:GLU:C	1:N:532:LYS:N	2.77	0.43
1:O:432:ARG:NH2	1:m:269:ASP:O	2.52	0.43
1:O:441:TYR:CE2	1:m:357:ALA:HB1	2.53	0.43
1:P:710:VAL:HG13	1:P:713:THR:HB	2.01	0.43
1:R:421:HIS:HB2	1:R:637:PHE:CE1	2.54	0.43
1:R:530:GLU:HG2	1:R:533:PHE:CD2	2.53	0.43
1:U:530:GLU:HG2	1:U:533:PHE:CD2	2.53	0.43
1:V:543:GLY:HA2	1:V:557:VAL:HG12	2.00	0.43
1:W:530:GLU:HG2	1:W:533:PHE:CD2	2.53	0.43
1:W:582:ASN:HB2	1:W:588:ARG:NE	2.34	0.43
1:X:563:GLU:OE1	1:X:563:GLU:N	2.51	0.43
1:b:530:GLU:HG2	1:b:533:PHE:CD2	2.53	0.43
1:c:238:ARG:HD2	1:c:683:GLU:OE2	2.19	0.43
1:d:436:PRO:HG3	1:l:378:LEU:HG	2.01	0.43
1:d:710:VAL:HG13	1:d:713:THR:HB	2.01	0.43
1:f:421:HIS:HB2	1:f:637:PHE:CE1	2.54	0.43
1:f:589:GLN:HA	1:h:496:ASN:ND2	2.32	0.43
1:g:304:TRP:O	1:g:423:SER:OG	2.25	0.43
1:g:378:LEU:HG	1:h:436:PRO:HG3	2.01	0.43
1:g:446:SER:OG	1:g:447:ARG:N	2.52	0.43
1:i:699:GLN:HB2	1:l:701:THR:HG1	1.83	0.43
1:j:701:THR:HG1	1:w:699:GLN:HB2	1.83	0.43
1:k:421:HIS:HB2	1:k:637:PHE:CE1	2.54	0.43
1:l:235:MET:HB2	1:l:238:ARG:HG3	2.00	0.43
1:l:421:HIS:HB2	1:l:637:PHE:CE1	2.54	0.43
1:l:661:PHE:HA	1:n:371:MET:CE	2.39	0.43
1:m:530:GLU:C	1:m:532:LYS:N	2.77	0.43
1:n:235:MET:HB2	1:n:238:ARG:HG3	2.00	0.43
1:n:421:HIS:HB2	1:n:637:PHE:CE1	2.54	0.43
1:n:620:LYS:HB2	1:n:642:PRO:HG2	1.99	0.43
1:o:371:MET:CE	1:7:661:PHE:HA	2.39	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:o:462:PHE:HE1	1:p:541:ILE:HD13	1.82	0.43
1:o:530:GLU:C	1:o:532:LYS:N	2.77	0.43
1:p:238:ARG:HD2	1:p:683:GLU:OE2	2.19	0.43
1:p:262:SER:HB2	1:p:271:HIS:HA	1.99	0.43
1:p:336:LEU:HD13	1:p:336:LEU:HA	1.90	0.43
1:p:530:GLU:HG2	1:p:533:PHE:CD2	2.53	0.43
1:q:476:ASN:O	1:r:633:LEU:HB2	2.19	0.43
1:q:530:GLU:HG2	1:q:533:PHE:CD2	2.53	0.43
1:q:582:ASN:HB2	1:q:588:ARG:NE	2.34	0.43
1:t:371:MET:CE	1:6:661:PHE:HA	2.38	0.43
1:t:530:GLU:HG2	1:t:533:PHE:CD2	2.53	0.43
1:u:436:PRO:HG3	1:v:378:LEU:HG	2.01	0.43
1:v:530:GLU:HG2	1:v:533:PHE:CD2	2.53	0.43
1:w:235:MET:HB2	1:w:238:ARG:HG3	2.00	0.43
1:w:421:HIS:HB2	1:w:637:PHE:CE1	2.54	0.43
1:x:530:GLU:HG2	1:x:533:PHE:CD2	2.53	0.43
1:y:262:SER:HB2	1:y:271:HIS:HA	1.99	0.43
1:y:543:GLY:HA2	1:y:557:VAL:HG12	2.00	0.43
1:z:421:HIS:HB2	1:z:637:PHE:CE1	2.54	0.43
1:2:413:TYR:CG	1:2:414:THR:N	2.86	0.43
1:2:489:SER:C	1:2:495:ASN:HD21	2.26	0.43
1:3:489:SER:C	1:3:495:ASN:HD21	2.26	0.43
1:3:518:ASN:O	1:3:519:PRO:C	2.61	0.43
1:3:710:VAL:HG13	1:3:713:THR:HB	2.01	0.43
1:4:710:VAL:HG13	1:4:713:THR:HB	2.01	0.43
1:5:441:TYR:CE2	1:6:357:ALA:HB1	2.53	0.43
1:7:582:ASN:HB2	1:7:588:ARG:NE	2.34	0.43
1:A:371:MET:CE	1:E:661:PHE:HA	2.39	0.43
1:B:294:ARG:HH12	1:B:298:ARG:HB2	1.83	0.43
1:B:496:ASN:ND2	1:L:589:GLN:HA	2.33	0.43
1:B:530:GLU:HG2	1:B:533:PHE:CD2	2.53	0.43
1:D:378:LEU:HG	1:P:436:PRO:HG3	2.00	0.43
1:F:241:THR:HG21	1:F:291:PHE:CE1	2.44	0.43
1:F:543:GLY:HA2	1:F:557:VAL:HG12	2.00	0.43
1:I:238:ARG:HD2	1:I:683:GLU:OE2	2.19	0.43
1:I:371:MET:CE	1:J:661:PHE:HA	2.39	0.43
1:N:238:ARG:HD2	1:N:683:GLU:OE2	2.19	0.43
1:N:582:ASN:HB2	1:N:588:ARG:NE	2.33	0.43
1:O:489:SER:C	1:O:495:ASN:HD21	2.26	0.43
1:O:543:GLY:HA2	1:O:557:VAL:HG12	2.00	0.43
1:P:453:GLY:H	1:P:457:GLN:C	2.23	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:S:450:THR:H	1:S:458:SER:HB3	1.83	0.43
1:U:489:SER:C	1:U:495:ASN:HD21	2.26	0.43
1:W:294:ARG:HH12	1:W:298:ARG:HB2	1.83	0.43
1:Y:563:GLU:OE1	1:Y:563:GLU:N	2.51	0.43
1:Z:421:HIS:HB2	1:Z:637:PHE:CE1	2.54	0.43
1:Z:436:PRO:HG3	1:4:378:LEU:HG	2.00	0.43
1:a:446:SER:OG	1:a:447:ARG:N	2.52	0.43
1:a:530:GLU:C	1:a:532:LYS:N	2.77	0.43
1:a:582:ASN:HB2	1:a:588:ARG:NE	2.33	0.43
1:b:699:GLN:HB2	1:c:701:THR:HG1	1.83	0.43
1:c:395:LEU:HD23	1:c:395:LEU:HA	1.83	0.43
1:c:421:HIS:HB2	1:c:637:PHE:CE1	2.54	0.43
1:c:483:TYR:OH	1:c:506:THR:OG1	2.27	0.43
1:e:421:HIS:HB2	1:e:637:PHE:CE1	2.54	0.43
1:f:436:PRO:HG3	1:h:378:LEU:HG	2.01	0.43
1:g:238:ARG:HD2	1:g:683:GLU:OE2	2.19	0.43
1:g:518:ASN:O	1:g:519:PRO:C	2.61	0.43
1:g:530:GLU:HG2	1:g:533:PHE:CD2	2.53	0.43
1:g:541:ILE:HD13	1:h:462:PHE:HE1	1.83	0.43
1:k:238:ARG:HD2	1:k:683:GLU:OE2	2.19	0.43
1:l:530:GLU:HG2	1:l:533:PHE:CD2	2.53	0.43
1:o:436:PRO:HG3	1:p:378:LEU:HG	2.00	0.43
1:q:498:SER:OG	1:q:499:GLU:N	2.49	0.43
1:r:238:ARG:HD2	1:r:683:GLU:OE2	2.19	0.43
1:t:699:GLN:HB2	1:5:701:THR:HG1	1.82	0.43
1:u:235:MET:HB2	1:u:238:ARG:HG3	2.00	0.43
1:u:509:HIS:CB	1:u:514:ASP:HA	2.45	0.43
1:u:543:GLY:HA2	1:u:557:VAL:HG12	2.00	0.43
1:v:563:GLU:OE1	1:v:563:GLU:N	2.51	0.43
1:w:489:SER:C	1:w:495:ASN:HD21	2.26	0.43
1:y:489:SER:C	1:y:495:ASN:HD21	2.26	0.43
1:z:235:MET:HB2	1:z:238:ARG:HG3	2.00	0.43
1:1:436:PRO:HG3	1:2:378:LEU:HG	2.00	0.43
1:2:450:THR:H	1:2:458:SER:HB3	1.83	0.43
1:4:421:HIS:HB2	1:4:637:PHE:CE1	2.54	0.43
1:5:378:LEU:HG	1:7:436:PRO:HG3	2.00	0.43
1:5:436:PRO:HG3	1:6:378:LEU:HG	2.00	0.43
1:6:530:GLU:HG2	1:6:533:PHE:CD2	2.53	0.43
1:7:530:GLU:HG2	1:7:533:PHE:CD2	2.53	0.43
1:A:543:GLY:HA2	1:A:557:VAL:HG12	2.00	0.43
1:B:489:SER:C	1:B:495:ASN:HD21	2.26	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:563:GLU:OE1	1:C:563:GLU:N	2.51	0.43
1:C:582:ASN:HB2	1:C:588:ARG:NE	2.34	0.43
1:C:701:THR:HG1	1:L:699:GLN:HB2	1.83	0.43
1:E:421:HIS:HB2	1:E:637:PHE:CE1	2.54	0.43
1:E:450:THR:H	1:E:458:SER:HB3	1.83	0.43
1:G:589:GLN:HA	1:I:496:ASN:ND2	2.33	0.43
1:H:530:GLU:HG2	1:H:533:PHE:CD2	2.53	0.43
1:J:476:ASN:O	1:L:633:LEU:HB2	2.19	0.43
1:J:699:GLN:HB2	1:K:701:THR:HG1	1.83	0.43
1:K:294:ARG:HH12	1:K:298:ARG:HB2	1.83	0.43
1:K:496:ASN:ND2	1:8:589:GLN:HA	2.33	0.43
1:M:453:GLY:H	1:M:457:GLN:C	2.23	0.43
1:N:403:LEU:HD23	1:N:403:LEU:HA	1.84	0.43
1:P:294:ARG:HH12	1:P:298:ARG:HB2	1.83	0.43
1:P:543:GLY:HA2	1:P:557:VAL:HG12	2.00	0.43
1:R:294:ARG:HH12	1:R:298:ARG:HB2	1.83	0.43
1:S:509:HIS:CB	1:S:514:ASP:HA	2.45	0.43
1:T:483:TYR:OH	1:T:506:THR:OG1	2.27	0.43
1:V:436:PRO:HG3	1:e:378:LEU:HG	2.00	0.43
1:W:543:GLY:HA2	1:W:557:VAL:HG12	2.00	0.43
1:X:421:HIS:HB2	1:X:637:PHE:CE1	2.54	0.43
1:Y:294:ARG:HH12	1:Y:298:ARG:HB2	1.83	0.43
1:Z:309:LYS:HA	1:Z:309:LYS:HD2	1.74	0.43
1:b:294:ARG:HH12	1:b:298:ARG:HB2	1.83	0.43
1:b:446:SER:OG	1:b:447:ARG:N	2.52	0.43
1:c:378:LEU:HG	1:p:436:PRO:HG3	2.00	0.43
1:c:530:GLU:C	1:c:532:LYS:N	2.77	0.43
1:d:530:GLU:HG2	1:d:533:PHE:CD2	2.53	0.43
1:d:582:ASN:HB2	1:d:588:ARG:NE	2.33	0.43
1:e:413:TYR:CG	1:e:414:THR:N	2.86	0.43
1:g:633:LEU:HB2	1:h:476:ASN:O	2.19	0.43
1:h:238:ARG:HD2	1:h:683:GLU:OE2	2.19	0.43
1:i:530:GLU:HG2	1:i:533:PHE:CD2	2.53	0.43
1:j:489:SER:C	1:j:495:ASN:HD21	2.26	0.43
1:k:710:VAL:HG13	1:k:713:THR:HB	2.01	0.43
1:l:450:THR:H	1:l:458:SER:HB3	1.83	0.43
1:m:436:PRO:HG3	1:n:378:LEU:HG	2.00	0.43
1:o:395:LEU:HD23	1:o:395:LEU:HA	1.83	0.43
1:p:294:ARG:HH12	1:p:298:ARG:HB2	1.83	0.43
1:s:421:HIS:HB2	1:s:637:PHE:CE1	2.54	0.43
1:u:238:ARG:HD2	1:u:683:GLU:OE2	2.19	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:v:489:SER:C	1:v:495:ASN:HD21	2.26	0.43
1:w:413:TYR:CG	1:w:414:THR:N	2.86	0.43
1:1:441:TYR:CE2	1:2:357:ALA:HB1	2.54	0.43
1:2:530:GLU:HG2	1:2:533:PHE:CD2	2.53	0.43
1:3:269:ASP:O	1:4:432:ARG:NH2	2.52	0.43
1:3:294:ARG:HH12	1:3:298:ARG:HB2	1.83	0.43
1:5:476:ASN:O	1:6:633:LEU:HB2	2.19	0.43
1:6:589:GLN:HA	1:7:496:ASN:ND2	2.33	0.43
1:7:421:HIS:HB2	1:7:637:PHE:CE1	2.54	0.43
1:8:453:GLY:H	1:8:457:GLN:C	2.23	0.43
1:8:710:VAL:HG13	1:8:713:THR:HB	2.01	0.43
1:A:294:ARG:HH12	1:A:298:ARG:HB2	1.83	0.43
1:A:563:GLU:OE1	1:A:563:GLU:N	2.51	0.43
1:B:269:ASP:O	1:L:432:ARG:NH2	2.52	0.43
1:D:496:ASN:ND2	1:P:589:GLN:HA	2.34	0.43
1:E:530:GLU:HG2	1:E:533:PHE:CD2	2.53	0.43
1:F:482:CYS:HB3	1:F:570:PRO:HG2	1.99	0.43
1:F:563:GLU:OE1	1:F:563:GLU:N	2.51	0.43
1:F:633:LEU:HB2	1:Q:476:ASN:O	2.19	0.43
1:G:294:ARG:HH12	1:G:298:ARG:HB2	1.84	0.43
1:H:421:HIS:HB2	1:H:637:PHE:CE1	2.54	0.43
1:I:294:ARG:HH12	1:I:298:ARG:HB2	1.83	0.43
1:I:483:TYR:OH	1:I:506:THR:OG1	2.27	0.43
1:I:489:SER:C	1:I:495:ASN:HD21	2.26	0.43
1:J:710:VAL:HG13	1:J:713:THR:HB	2.01	0.43
1:L:543:GLY:HA2	1:L:557:VAL:HG12	2.00	0.43
1:L:582:ASN:HB2	1:L:588:ARG:NE	2.34	0.43
1:M:378:LEU:HG	1:b:436:PRO:HG3	2.00	0.43
1:N:421:HIS:HB2	1:N:637:PHE:CE1	2.54	0.43
1:O:446:SER:OG	1:O:447:ARG:N	2.52	0.43
1:O:476:ASN:O	1:m:633:LEU:HB2	2.19	0.43
1:Q:421:HIS:HB2	1:Q:637:PHE:CE1	2.54	0.43
1:R:262:SER:HB2	1:R:271:HIS:HA	1.99	0.43
1:R:432:ARG:NH2	1:S:269:ASP:O	2.52	0.43
1:S:238:ARG:HD2	1:S:683:GLU:OE2	2.19	0.43
1:S:543:GLY:HA2	1:S:557:VAL:HG12	2.00	0.43
1:U:309:LYS:HA	1:U:309:LYS:HD2	1.75	0.43
1:U:563:GLU:OE1	1:U:563:GLU:N	2.51	0.43
1:U:582:ASN:HB2	1:U:588:ARG:NE	2.33	0.43
1:U:701:THR:HG1	1:V:699:GLN:HB2	1.83	0.43
1:W:476:ASN:O	1:Y:633:LEU:HB2	2.19	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:W:498:SER:OG	1:W:499:GLU:N	2.49	0.43
1:W:654:PRO:HB3	1:W:666:PHE:CE2	2.54	0.43
1:Y:446:SER:OG	1:Y:447:ARG:N	2.52	0.43
1:Z:238:ARG:HD2	1:Z:683:GLU:OE2	2.19	0.43
1:Z:509:HIS:CB	1:Z:514:ASP:HA	2.45	0.43
1:Z:530:GLU:C	1:Z:532:LYS:N	2.77	0.43
1:a:238:ARG:HD2	1:a:683:GLU:OE2	2.19	0.43
1:a:427:SER:O	1:8:380:LEU:HG	2.19	0.43
1:c:563:GLU:OE1	1:c:563:GLU:N	2.51	0.43
1:c:710:VAL:HG13	1:c:713:THR:HB	2.01	0.43
1:e:489:SER:C	1:e:495:ASN:HD21	2.26	0.43
1:e:518:ASN:O	1:e:519:PRO:C	2.61	0.43
1:e:543:GLY:HA2	1:e:557:VAL:HG12	2.00	0.43
1:f:441:TYR:CE2	1:h:357:ALA:HB1	2.53	0.43
1:f:489:SER:C	1:f:495:ASN:HD21	2.26	0.43
1:f:633:LEU:HB2	1:g:476:ASN:O	2.18	0.43
1:h:699:GLN:HB2	1:k:701:THR:HG1	1.83	0.43
1:h:710:VAL:HG13	1:h:713:THR:HB	2.01	0.43
1:i:238:ARG:HD2	1:i:683:GLU:OE2	2.19	0.43
1:i:421:HIS:HB2	1:i:637:PHE:CE1	2.54	0.43
1:k:446:SER:OG	1:k:447:ARG:N	2.52	0.43
1:m:238:ARG:HD2	1:m:683:GLU:OE2	2.19	0.43
1:m:509:HIS:CB	1:m:514:ASP:HA	2.45	0.43
1:o:235:MET:HB2	1:o:238:ARG:HG3	2.00	0.43
1:o:301:ASN:O	1:o:731:LEU:HD11	2.19	0.43
1:o:543:GLY:HA2	1:o:557:VAL:HG12	2.00	0.43
1:q:294:ARG:HH12	1:q:298:ARG:HB2	1.83	0.43
1:q:543:GLY:HA2	1:q:557:VAL:HG12	2.00	0.43
1:r:294:ARG:HH12	1:r:298:ARG:HB2	1.83	0.43
1:r:446:SER:OG	1:r:447:ARG:N	2.52	0.43
1:r:563:GLU:OE1	1:r:563:GLU:N	2.51	0.43
1:s:430:LEU:HD23	1:s:430:LEU:HA	1.87	0.43
1:t:294:ARG:HH12	1:t:298:ARG:HB2	1.83	0.43
1:t:357:ALA:HB1	1:v:441:TYR:CE2	2.54	0.43
1:u:450:THR:H	1:u:458:SER:HB3	1.83	0.43
1:u:489:SER:C	1:u:495:ASN:HD21	2.26	0.43
1:w:518:ASN:O	1:w:519:PRO:C	2.61	0.43
1:x:421:HIS:HB2	1:x:637:PHE:CE1	2.54	0.43
1:z:530:GLU:HG2	1:z:533:PHE:CD2	2.53	0.43
1:1:294:ARG:HH12	1:1:298:ARG:HB2	1.83	0.43
1:3:498:SER:OG	1:3:499:GLU:N	2.49	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:5:421:HIS:HB2	1:5:637:PHE:CE1	2.54	0.43
1:5:563:GLU:OE1	1:5:563:GLU:N	2.51	0.43
1:5:589:GLN:HA	1:6:496:ASN:ND2	2.32	0.43
1:6:482:CYS:HB3	1:6:570:PRO:HG2	1.99	0.43
1:8:238:ARG:HD2	1:8:683:GLU:OE2	2.19	0.43
1:8:450:THR:H	1:8:458:SER:HB3	1.83	0.43
1:8:530:GLU:HG2	1:8:533:PHE:CD2	2.53	0.43
1:A:238:ARG:HD2	1:A:683:GLU:OE2	2.19	0.43
1:A:301:ASN:O	1:A:731:LEU:HD11	2.19	0.43
1:A:509:HIS:CB	1:A:514:ASP:HA	2.45	0.43
1:B:301:ASN:O	1:B:731:LEU:HD11	2.19	0.43
1:B:436:PRO:HG3	1:J:378:LEU:HG	2.00	0.43
1:C:530:GLU:HG2	1:C:533:PHE:CD2	2.53	0.43
1:C:543:GLY:HA2	1:C:557:VAL:HG12	2.00	0.43
1:C:633:LEU:HB2	1:M:476:ASN:O	2.19	0.43
1:D:530:GLU:C	1:D:532:LYS:N	2.77	0.43
1:E:395:LEU:HD23	1:E:395:LEU:HA	1.83	0.43
1:F:238:ARG:HD2	1:F:683:GLU:OE2	2.18	0.43
1:H:413:TYR:CG	1:H:414:THR:N	2.86	0.43
1:H:436:PRO:HG3	1:W:378:LEU:HG	2.00	0.43
1:I:450:THR:H	1:I:458:SER:HB3	1.83	0.43
1:I:563:GLU:OE1	1:I:563:GLU:N	2.51	0.43
1:J:436:PRO:HG3	1:L:378:LEU:HG	2.00	0.43
1:M:661:PHE:HA	1:c:371:MET:CE	2.39	0.43
1:O:294:ARG:HH12	1:O:298:ARG:HB2	1.83	0.43
1:P:530:GLU:HG2	1:P:533:PHE:CD2	2.53	0.43
1:Q:235:MET:HB2	1:Q:238:ARG:HG3	2.00	0.43
1:Q:252:TYR:CE1	1:Q:374:GLN:HB2	2.54	0.43
1:Q:294:ARG:HH12	1:Q:298:ARG:HB2	1.83	0.43
1:Q:563:GLU:OE1	1:Q:563:GLU:N	2.51	0.43
1:S:235:MET:HB2	1:S:238:ARG:HG3	2.00	0.43
1:S:489:SER:C	1:S:495:ASN:HD21	2.26	0.43
1:S:699:GLN:HB2	1:T:701:THR:HG1	1.83	0.43
1:S:701:THR:HG1	1:T:699:GLN:HB2	1.84	0.43
1:T:294:ARG:HH12	1:T:298:ARG:HB2	1.83	0.43
1:T:378:LEU:HG	1:l:436:PRO:HG3	1.99	0.43
1:T:436:PRO:HG3	1:d:378:LEU:HG	2.00	0.43
1:T:633:LEU:HB2	1:l:476:ASN:O	2.19	0.43
1:U:450:THR:H	1:U:458:SER:HB3	1.83	0.43
1:V:476:ASN:O	1:e:633:LEU:HB2	2.19	0.43
1:W:518:ASN:O	1:W:519:PRO:C	2.61	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:X:489:SER:C	1:X:495:ASN:HD21	2.26	0.43
1:Y:489:SER:C	1:Y:495:ASN:HD21	2.26	0.43
1:a:421:HIS:HB2	1:a:637:PHE:CE1	2.54	0.43
1:a:489:SER:C	1:a:495:ASN:HD21	2.26	0.43
1:b:301:ASN:O	1:b:731:LEU:HD11	2.19	0.43
1:c:633:LEU:HB2	1:p:476:ASN:O	2.19	0.43
1:d:450:THR:H	1:d:458:SER:HB3	1.83	0.43
1:f:294:ARG:HH12	1:f:298:ARG:HB2	1.83	0.43
1:g:710:VAL:HG13	1:g:713:THR:HB	2.01	0.43
1:j:294:ARG:HH12	1:j:298:ARG:HB2	1.83	0.43
1:l:710:VAL:HG13	1:l:713:THR:HB	2.01	0.43
1:m:476:ASN:O	1:n:633:LEU:HB2	2.19	0.43
1:o:294:ARG:HH12	1:o:298:ARG:HB2	1.83	0.43
1:o:563:GLU:OE1	1:o:563:GLU:N	2.51	0.43
1:q:518:ASN:O	1:q:519:PRO:C	2.61	0.43
1:q:654:PRO:HB3	1:q:666:PHE:CE2	2.54	0.43
1:r:432:ARG:NH2	1:s:269:ASP:O	2.52	0.43
1:r:489:SER:C	1:r:495:ASN:HD21	2.26	0.43
1:t:541:ILE:HD13	1:v:462:PHE:HE1	1.83	0.43
1:u:589:GLN:HA	1:v:496:ASN:ND2	2.33	0.43
1:w:432:ARG:NH2	1:x:269:ASP:O	2.52	0.43
1:w:543:GLY:HA2	1:w:557:VAL:HG12	2.00	0.43
1:x:301:ASN:O	1:x:731:LEU:HD11	2.19	0.43
1:y:421:HIS:HB2	1:y:637:PHE:CE1	2.54	0.43
1:z:710:VAL:HG13	1:z:713:THR:HB	2.01	0.43
1:1:421:HIS:HB2	1:1:637:PHE:CE1	2.54	0.43
1:2:582:ASN:HB2	1:2:588:ARG:NE	2.34	0.43
1:3:446:SER:OG	1:3:447:ARG:N	2.52	0.43
1:5:301:ASN:O	1:5:731:LEU:HD11	2.19	0.43
1:5:582:ASN:HB2	1:5:588:ARG:NE	2.33	0.43
1:6:530:GLU:C	1:6:532:LYS:N	2.77	0.43
1:6:543:GLY:HA2	1:6:557:VAL:HG12	2.00	0.43
1:6:563:GLU:OE1	1:6:563:GLU:N	2.51	0.43
1:7:450:THR:H	1:7:458:SER:HB3	1.83	0.43
1:8:294:ARG:HH12	1:8:298:ARG:HB2	1.83	0.43
1:C:269:ASP:O	1:M:432:ARG:NH2	2.52	0.42
1:C:413:TYR:CG	1:C:414:THR:N	2.86	0.42
1:D:476:ASN:O	1:N:633:LEU:HB2	2.19	0.42
1:F:710:VAL:HG13	1:F:713:THR:HB	2.01	0.42
1:G:446:SER:OG	1:G:447:ARG:N	2.52	0.42
1:G:476:ASN:O	1:I:633:LEU:HB2	2.19	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:238:ARG:HD2	1:H:683:GLU:OE2	2.18	0.42
1:H:430:LEU:HD23	1:H:430:LEU:HA	1.87	0.42
1:H:530:GLU:C	1:H:532:LYS:N	2.77	0.42
1:I:710:VAL:HG13	1:I:713:THR:HB	2.01	0.42
1:J:482:CYS:HB3	1:J:570:PRO:HG2	1.99	0.42
1:J:582:ASN:HB2	1:J:588:ARG:NE	2.33	0.42
1:K:343:PHE:HB3	1:K:400:SER:CA	2.46	0.42
1:L:530:GLU:HG2	1:L:533:PHE:CD2	2.53	0.42
1:M:446:SER:OG	1:M:447:ARG:N	2.52	0.42
1:M:582:ASN:HB2	1:M:588:ARG:NE	2.34	0.42
1:N:476:ASN:O	1:P:633:LEU:HB2	2.19	0.42
1:N:589:GLN:HA	1:P:496:ASN:ND2	2.34	0.42
1:P:238:ARG:HD2	1:P:683:GLU:OE2	2.19	0.42
1:P:450:THR:H	1:P:458:SER:HB3	1.83	0.42
1:Q:301:ASN:O	1:Q:731:LEU:HD11	2.19	0.42
1:Q:446:SER:OG	1:Q:447:ARG:N	2.52	0.42
1:Q:582:ASN:HB2	1:Q:588:ARG:NE	2.34	0.42
1:Q:699:GLN:HB2	1:R:701:THR:HG1	1.84	0.42
1:S:500:TYR:O	1:S:501:SER:OG	2.23	0.42
1:V:518:ASN:O	1:V:519:PRO:C	2.61	0.42
1:W:421:HIS:HB2	1:W:637:PHE:CE1	2.54	0.42
1:X:269:ASP:O	1:e:432:ARG:NH2	2.52	0.42
1:X:301:ASN:O	1:X:731:LEU:HD11	2.19	0.42
1:Z:518:ASN:O	1:Z:519:PRO:C	2.61	0.42
1:b:489:SER:C	1:b:495:ASN:HD21	2.26	0.42
1:c:450:THR:H	1:c:458:SER:HB3	1.83	0.42
1:c:489:SER:C	1:c:495:ASN:HD21	2.26	0.42
1:d:421:HIS:HB2	1:d:637:PHE:CE1	2.54	0.42
1:f:378:LEU:HG	1:g:436:PRO:HG3	2.01	0.42
1:f:396:GLU:OE1	1:f:396:GLU:N	2.30	0.42
1:g:421:HIS:HB2	1:g:637:PHE:CE1	2.54	0.42
1:g:654:PRO:HB3	1:g:666:PHE:CE2	2.54	0.42
1:h:446:SER:OG	1:h:447:ARG:N	2.52	0.42
1:i:413:TYR:CG	1:i:414:THR:N	2.87	0.42
1:i:701:THR:HG1	1:l:699:GLN:HB2	1.83	0.42
1:i:710:VAL:HG13	1:i:713:THR:HB	2.01	0.42
1:j:450:THR:H	1:j:458:SER:HB3	1.83	0.42
1:j:530:GLU:HG2	1:j:533:PHE:CD2	2.53	0.42
1:k:582:ASN:HB2	1:k:588:ARG:NE	2.34	0.42
1:l:413:TYR:CG	1:l:414:THR:N	2.86	0.42
1:o:238:ARG:HD2	1:o:683:GLU:OE2	2.19	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:o:509:HIS:CB	1:o:514:ASP:HA	2.45	0.42
1:q:701:THR:HG1	1:x:699:GLN:HB2	1.84	0.42
1:s:530:GLU:HG2	1:s:533:PHE:CD2	2.53	0.42
1:u:301:ASN:O	1:u:731:LEU:HD11	2.19	0.42
1:u:654:PRO:HB3	1:u:666:PHE:CE2	2.54	0.42
1:v:582:ASN:HB2	1:v:588:ARG:NE	2.34	0.42
1:w:476:ASN:O	1:x:633:LEU:HB2	2.19	0.42
1:x:252:TYR:CE1	1:x:374:GLN:HB2	2.55	0.42
1:x:432:ARG:NH2	1:y:269:ASP:O	2.52	0.42
1:x:476:ASN:O	1:y:633:LEU:HB2	2.19	0.42
1:z:450:THR:H	1:z:458:SER:HB3	1.83	0.42
1:1:489:SER:C	1:1:495:ASN:HD21	2.26	0.42
1:5:235:MET:HB2	1:5:238:ARG:HG3	2.00	0.42
1:5:252:TYR:CE1	1:5:374:GLN:HB2	2.54	0.42
1:5:446:SER:OG	1:5:447:ARG:N	2.52	0.42
1:6:238:ARG:HD2	1:6:683:GLU:OE2	2.19	0.42
1:8:421:HIS:HB2	1:8:637:PHE:CE1	2.54	0.42
1:8:543:GLY:HA2	1:8:557:VAL:HG12	2.00	0.42
1:B:378:LEU:HG	1:L:436:PRO:HG3	2.00	0.42
1:B:413:TYR:CG	1:B:414:THR:N	2.87	0.42
1:C:378:LEU:HG	1:M:436:PRO:HG3	2.00	0.42
1:D:582:ASN:HB2	1:D:588:ARG:NE	2.33	0.42
1:D:701:THR:HG1	1:M:699:GLN:HB2	1.84	0.42
1:E:446:SER:OG	1:E:447:ARG:N	2.52	0.42
1:E:496:ASN:ND2	1:F:589:GLN:HA	2.33	0.42
1:F:496:ASN:ND2	1:Q:589:GLN:HA	2.33	0.42
1:F:530:GLU:C	1:F:532:LYS:N	2.77	0.42
1:H:269:ASP:O	1:Y:432:ARG:NH2	2.52	0.42
1:K:530:GLU:C	1:K:532:LYS:N	2.77	0.42
1:K:589:GLN:HA	1:a:496:ASN:ND2	2.32	0.42
1:L:413:TYR:CG	1:L:414:THR:N	2.86	0.42
1:M:238:ARG:HD2	1:M:683:GLU:OE2	2.19	0.42
1:M:530:GLU:C	1:M:532:LYS:N	2.77	0.42
1:M:710:VAL:HG13	1:M:713:THR:HB	2.01	0.42
1:N:489:SER:C	1:N:495:ASN:HD21	2.26	0.42
1:N:518:ASN:O	1:N:519:PRO:C	2.61	0.42
1:P:421:HIS:HB2	1:P:637:PHE:CE1	2.54	0.42
1:Q:530:GLU:C	1:Q:532:LYS:N	2.77	0.42
1:R:238:ARG:HD2	1:R:683:GLU:OE2	2.19	0.42
1:R:301:ASN:O	1:R:731:LEU:HD11	2.19	0.42
1:S:301:ASN:O	1:S:731:LEU:HD11	2.19	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:S:589:GLN:HA	1:U:496:ASN:ND2	2.33	0.42
1:S:654:PRO:HB3	1:S:666:PHE:CE2	2.54	0.42
1:T:421:HIS:HB2	1:T:637:PHE:CE1	2.54	0.42
1:T:582:ASN:HB2	1:T:588:ARG:NE	2.33	0.42
1:U:413:TYR:CG	1:U:414:THR:N	2.86	0.42
1:U:446:SER:OG	1:U:447:ARG:N	2.52	0.42
1:W:563:GLU:N	1:W:563:GLU:OE1	2.51	0.42
1:X:238:ARG:HD2	1:X:683:GLU:OE2	2.19	0.42
1:X:252:TYR:CE1	1:X:374:GLN:HB2	2.55	0.42
1:X:633:LEU:HB2	1:e:476:ASN:O	2.19	0.42
1:Y:421:HIS:HB2	1:Y:637:PHE:CE1	2.54	0.42
1:Z:301:ASN:O	1:Z:731:LEU:HD11	2.19	0.42
1:a:294:ARG:HH12	1:a:298:ARG:HB2	1.83	0.42
1:a:403:LEU:HD23	1:a:403:LEU:HA	1.84	0.42
1:f:450:THR:H	1:f:458:SER:HB3	1.83	0.42
1:f:530:GLU:HG2	1:f:533:PHE:CD2	2.53	0.42
1:g:294:ARG:HH12	1:g:298:ARG:HB2	1.83	0.42
1:g:413:TYR:CG	1:g:414:THR:N	2.86	0.42
1:h:701:THR:HG1	1:k:699:GLN:HB2	1.83	0.42
1:i:589:GLN:HA	1:j:496:ASN:ND2	2.33	0.42
1:i:654:PRO:HB3	1:i:666:PHE:CE2	2.54	0.42
1:j:396:GLU:OE1	1:j:396:GLU:N	2.30	0.42
1:j:589:GLN:HA	1:k:496:ASN:ND2	2.33	0.42
1:m:301:ASN:O	1:m:731:LEU:HD11	2.19	0.42
1:m:518:ASN:O	1:m:519:PRO:C	2.61	0.42
1:n:654:PRO:HB3	1:n:666:PHE:CE2	2.54	0.42
1:p:371:MET:CE	1:q:661:PHE:HA	2.39	0.42
1:p:446:SER:OG	1:p:447:ARG:N	2.52	0.42
1:q:238:ARG:HD2	1:q:683:GLU:OE2	2.19	0.42
1:q:378:LEU:HG	1:s:436:PRO:HG3	2.00	0.42
1:q:421:HIS:HB2	1:q:637:PHE:CE1	2.54	0.42
1:s:238:ARG:HD2	1:s:683:GLU:OE2	2.19	0.42
1:s:309:LYS:HA	1:s:309:LYS:HD2	1.74	0.42
1:s:413:TYR:CG	1:s:414:THR:N	2.86	0.42
1:t:262:SER:HB2	1:t:271:HIS:HA	1.99	0.42
1:t:301:ASN:O	1:t:731:LEU:HD11	2.19	0.42
1:t:432:ARG:NH2	1:u:269:ASP:O	2.53	0.42
1:w:530:GLU:HG2	1:w:533:PHE:CD2	2.53	0.42
1:y:509:HIS:CB	1:y:514:ASP:HA	2.45	0.42
1:y:518:ASN:O	1:y:519:PRO:C	2.61	0.42
1:z:413:TYR:CG	1:z:414:THR:N	2.86	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1:235:MET:HB2	1:1:238:ARG:HG3	2.00	0.42
1:1:582:ASN:HB2	1:1:588:ARG:NE	2.34	0.42
1:4:446:SER:OG	1:4:447:ARG:N	2.52	0.42
1:4:518:ASN:O	1:4:519:PRO:C	2.61	0.42
1:4:654:PRO:HB3	1:4:666:PHE:CE2	2.54	0.42
1:5:530:GLU:C	1:5:532:LYS:N	2.77	0.42
1:6:710:VAL:HG13	1:6:713:THR:HB	2.01	0.42
1:8:563:GLU:OE1	1:8:563:GLU:N	2.51	0.42
1:A:235:MET:HB2	1:A:238:ARG:HG3	2.00	0.42
1:A:421:HIS:HB2	1:A:637:PHE:CE1	2.54	0.42
1:A:699:GLN:HB2	1:F:701:THR:HG1	1.83	0.42
1:B:476:ASN:O	1:J:633:LEU:HB2	2.19	0.42
1:H:378:LEU:HG	1:Y:436:PRO:HG3	2.00	0.42
1:I:309:LYS:HD2	1:I:309:LYS:HA	1.74	0.42
1:I:446:SER:OG	1:I:447:ARG:N	2.52	0.42
1:J:238:ARG:HD2	1:J:683:GLU:OE2	2.19	0.42
1:J:432:ARG:NH2	1:L:269:ASP:O	2.52	0.42
1:J:446:SER:OG	1:J:447:ARG:N	2.52	0.42
1:K:476:ASN:O	1:a:633:LEU:HB2	2.19	0.42
1:K:582:ASN:HB2	1:K:588:ARG:NE	2.33	0.42
1:L:238:ARG:HD2	1:L:683:GLU:OE2	2.19	0.42
1:M:482:CYS:HB3	1:M:570:PRO:HG2	1.99	0.42
1:N:294:ARG:HH12	1:N:298:ARG:HB2	1.83	0.42
1:O:252:TYR:CE1	1:O:374:GLN:HB2	2.55	0.42
1:O:378:LEU:HG	1:n:436:PRO:HG3	2.00	0.42
1:O:654:PRO:HB3	1:O:666:PHE:CE2	2.54	0.42
1:P:563:GLU:OE1	1:P:563:GLU:N	2.51	0.42
1:Q:430:LEU:HD23	1:Q:430:LEU:HA	1.87	0.42
1:R:235:MET:HB2	1:R:238:ARG:HG3	2.00	0.42
1:V:252:TYR:CE1	1:V:374:GLN:HB2	2.55	0.42
1:V:421:HIS:HB2	1:V:637:PHE:CE1	2.54	0.42
1:V:496:ASN:ND2	1:X:589:GLN:HA	2.34	0.42
1:V:509:HIS:CB	1:V:514:ASP:HA	2.45	0.42
1:Y:365:PHE:HA	1:Y:366:PRO:HD3	1.94	0.42
1:Y:654:PRO:HB3	1:Y:666:PHE:CE2	2.54	0.42
1:Z:294:ARG:HH12	1:Z:298:ARG:HB2	1.83	0.42
1:Z:378:LEU:HG	1:3:436:PRO:HG3	2.00	0.42
1:a:518:ASN:O	1:a:519:PRO:C	2.61	0.42
1:a:585:ARG:N	1:a:588:ARG:HB3	2.35	0.42
1:b:252:TYR:CE1	1:b:374:GLN:HB2	2.55	0.42
1:b:413:TYR:CG	1:b:414:THR:N	2.87	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:b:654:PRO:HB3	1:b:666:PHE:CE2	2.54	0.42
1:c:294:ARG:HH12	1:c:298:ARG:HB2	1.84	0.42
1:c:446:SER:OG	1:c:447:ARG:N	2.52	0.42
1:e:530:GLU:HG2	1:e:533:PHE:CD2	2.53	0.42
1:e:701:THR:HG1	1:f:699:GLN:HB2	1.84	0.42
1:f:446:SER:OG	1:f:447:ARG:N	2.52	0.42
1:f:563:GLU:OE1	1:f:563:GLU:N	2.51	0.42
1:h:582:ASN:HB2	1:h:588:ARG:NE	2.34	0.42
1:i:294:ARG:HH12	1:i:298:ARG:HB2	1.83	0.42
1:j:446:SER:OG	1:j:447:ARG:N	2.52	0.42
1:n:446:SER:OG	1:n:447:ARG:N	2.52	0.42
1:n:530:GLU:C	1:n:532:LYS:N	2.77	0.42
1:o:654:PRO:HB3	1:o:666:PHE:CE2	2.54	0.42
1:p:582:ASN:HB2	1:p:588:ARG:NE	2.34	0.42
1:q:563:GLU:OE1	1:q:563:GLU:N	2.51	0.42
1:q:710:VAL:HG13	1:q:713:THR:HB	2.01	0.42
1:r:436:PRO:HG3	1:s:378:LEU:HG	2.00	0.42
1:r:654:PRO:HB3	1:r:666:PHE:CE2	2.54	0.42
1:t:235:MET:HB2	1:t:238:ARG:HG3	2.00	0.42
1:t:238:ARG:HD2	1:t:683:GLU:OE2	2.19	0.42
1:v:413:TYR:CG	1:v:414:THR:N	2.86	0.42
1:v:585:ARG:N	1:v:588:ARG:HB3	2.35	0.42
1:x:238:ARG:HD2	1:x:683:GLU:OE2	2.19	0.42
1:x:489:SER:C	1:x:495:ASN:HD21	2.26	0.42
1:x:543:GLY:HA2	1:x:557:VAL:HG12	2.00	0.42
1:y:252:TYR:CE1	1:y:374:GLN:HB2	2.55	0.42
1:1:252:TYR:CE1	1:1:374:GLN:HB2	2.55	0.42
1:2:421:HIS:HB2	1:2:637:PHE:CE1	2.54	0.42
1:2:446:SER:OG	1:2:447:ARG:N	2.52	0.42
1:3:252:TYR:CE1	1:3:374:GLN:HB2	2.55	0.42
1:4:530:GLU:C	1:4:532:LYS:N	2.77	0.42
1:5:633:LEU:HB2	1:7:476:ASN:O	2.19	0.42
1:5:710:VAL:HG13	1:5:713:THR:HB	2.01	0.42
1:7:543:GLY:HA2	1:7:557:VAL:HG12	2.00	0.42
1:A:654:PRO:HB3	1:A:666:PHE:CE2	2.54	0.42
1:B:252:TYR:CE1	1:B:374:GLN:HB2	2.55	0.42
1:B:446:SER:OG	1:B:447:ARG:N	2.52	0.42
1:B:654:PRO:HB3	1:B:666:PHE:CE2	2.54	0.42
1:C:238:ARG:HD2	1:C:683:GLU:OE2	2.19	0.42
1:D:421:HIS:HB2	1:D:637:PHE:HE1	1.85	0.42
1:D:509:HIS:CB	1:D:514:ASP:HA	2.45	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:733:ARG:HG2	1:D:734:ASN:O	2.20	0.42
1:G:582:ASN:HB2	1:G:588:ARG:NE	2.34	0.42
1:I:654:PRO:HB3	1:I:666:PHE:CE2	2.54	0.42
1:J:413:TYR:CG	1:J:414:THR:N	2.86	0.42
1:J:530:GLU:C	1:J:532:LYS:N	2.77	0.42
1:K:733:ARG:HG2	1:K:734:ASN:O	2.20	0.42
1:M:301:ASN:O	1:M:731:LEU:HD11	2.19	0.42
1:M:413:TYR:CG	1:M:414:THR:N	2.86	0.42
1:N:585:ARG:N	1:N:588:ARG:HB3	2.35	0.42
1:O:421:HIS:HB2	1:O:637:PHE:CE1	2.54	0.42
1:P:301:ASN:O	1:P:731:LEU:HD11	2.19	0.42
1:P:413:TYR:CG	1:P:414:THR:N	2.86	0.42
1:R:252:TYR:CE1	1:R:374:GLN:HB2	2.55	0.42
1:R:446:SER:OG	1:R:447:ARG:N	2.52	0.42
1:R:530:GLU:C	1:R:532:LYS:N	2.77	0.42
1:S:582:ASN:HB2	1:S:588:ARG:NE	2.34	0.42
1:T:235:MET:HB2	1:T:238:ARG:HG3	2.00	0.42
1:T:489:SER:C	1:T:495:ASN:HD21	2.26	0.42
1:U:585:ARG:N	1:U:588:ARG:HB3	2.35	0.42
1:V:294:ARG:HH12	1:V:298:ARG:HB2	1.83	0.42
1:V:459:ARG:HH12	1:e:492:SER:H	1.67	0.42
1:W:238:ARG:HD2	1:W:683:GLU:OE2	2.19	0.42
1:W:379:THR:HG22	1:W:380:LEU:N	2.35	0.42
1:W:699:GLN:HB2	1:X:701:THR:HG1	1.83	0.42
1:X:543:GLY:HA2	1:X:557:VAL:HG12	2.00	0.42
1:Y:498:SER:OG	1:Y:499:GLU:N	2.49	0.42
1:Y:585:ARG:N	1:Y:588:ARG:HB3	2.35	0.42
1:Z:269:ASP:O	1:3:432:ARG:NH2	2.53	0.42
1:Z:476:ASN:O	1:4:633:LEU:HB2	2.20	0.42
1:Z:553:ASP:OD1	1:3:461:GLN:HG2	2.20	0.42
1:a:589:GLN:HA	1:8:496:ASN:ND2	2.32	0.42
1:c:301:ASN:O	1:c:731:LEU:HD11	2.19	0.42
1:d:294:ARG:HH12	1:d:298:ARG:HB2	1.83	0.42
1:d:441:TYR:CE2	1:l:357:ALA:HB1	2.53	0.42
1:d:446:SER:OG	1:d:447:ARG:N	2.52	0.42
1:e:563:GLU:N	1:e:563:GLU:OE1	2.51	0.42
1:f:553:ASP:OD1	1:g:461:GLN:HG2	2.19	0.42
1:g:269:ASP:O	1:h:432:ARG:NH2	2.52	0.42
1:h:413:TYR:CG	1:h:414:THR:N	2.86	0.42
1:j:238:ARG:HD2	1:j:683:GLU:OE2	2.19	0.42
1:k:413:TYR:CG	1:k:414:THR:N	2.86	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:l:530:GLU:C	1:l:532:LYS:N	2.77	0.42
1:m:294:ARG:HH12	1:m:298:ARG:HB2	1.83	0.42
1:m:371:MET:CE	1:s:661:PHE:HA	2.38	0.42
1:n:379:THR:HG22	1:n:380:LEU:N	2.35	0.42
1:o:421:HIS:HB2	1:o:637:PHE:CE1	2.54	0.42
1:r:421:HIS:HB2	1:r:637:PHE:CE1	2.54	0.42
1:r:585:ARG:N	1:r:588:ARG:HB3	2.35	0.42
1:r:710:VAL:HG13	1:r:713:THR:HB	2.01	0.42
1:s:530:GLU:C	1:s:532:LYS:N	2.77	0.42
1:s:563:GLU:OE1	1:s:563:GLU:N	2.51	0.42
1:t:252:TYR:CE1	1:t:374:GLN:HB2	2.55	0.42
1:t:378:LEU:HG	1:v:436:PRO:HG3	2.02	0.42
1:t:476:ASN:O	1:u:633:LEU:HB2	2.19	0.42
1:u:582:ASN:HB2	1:u:588:ARG:NE	2.34	0.42
1:v:446:SER:OG	1:v:447:ARG:N	2.52	0.42
1:v:450:THR:H	1:v:458:SER:HB3	1.83	0.42
1:w:421:HIS:HB2	1:w:637:PHE:HE1	1.85	0.42
1:y:294:ARG:HH12	1:y:298:ARG:HB2	1.83	0.42
1:y:395:LEU:HA	1:y:395:LEU:HD23	1.82	0.42
1:z:530:GLU:C	1:z:532:LYS:N	2.77	0.42
1:2:238:ARG:HD2	1:2:683:GLU:OE2	2.19	0.42
1:2:543:GLY:HA2	1:2:557:VAL:HG12	2.00	0.42
1:3:654:PRO:HB3	1:3:666:PHE:CE2	2.54	0.42
1:4:301:ASN:O	1:4:731:LEU:HD11	2.19	0.42
1:5:294:ARG:HH12	1:5:298:ARG:HB2	1.84	0.42
1:6:309:LYS:HA	1:6:309:LYS:HD2	1.74	0.42
1:8:301:ASN:O	1:8:731:LEU:HD11	2.19	0.42
1:8:413:TYR:CG	1:8:414:THR:N	2.86	0.42
1:8:582:ASN:HB2	1:8:588:ARG:NE	2.34	0.42
1:B:585:ARG:N	1:B:588:ARG:HB3	2.35	0.42
1:C:421:HIS:HB2	1:C:637:PHE:CE1	2.54	0.42
1:C:710:VAL:HG13	1:C:713:THR:HB	2.01	0.42
1:D:238:ARG:HD2	1:D:683:GLU:OE2	2.19	0.42
1:D:710:VAL:HG13	1:D:713:THR:HB	2.01	0.42
1:E:432:ARG:NH2	1:Q:269:ASP:O	2.53	0.42
1:F:235:MET:HB2	1:F:238:ARG:HG3	2.00	0.42
1:G:371:MET:CE	1:W:661:PHE:HA	2.39	0.42
1:H:563:GLU:OE1	1:H:563:GLU:N	2.51	0.42
1:I:235:MET:HB2	1:I:238:ARG:HG3	2.00	0.42
1:I:252:TYR:CE1	1:I:374:GLN:HB2	2.55	0.42
1:I:301:ASN:O	1:I:731:LEU:HD11	2.19	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:301:ASN:O	1:J:731:LEU:HD11	2.19	0.42
1:J:733:ARG:HG2	1:J:734:ASN:O	2.20	0.42
1:K:421:HIS:HB2	1:K:637:PHE:HE1	1.85	0.42
1:K:710:VAL:HG13	1:K:713:THR:HB	2.01	0.42
1:M:371:MET:CE	1:N:661:PHE:HA	2.38	0.42
1:M:733:ARG:HG2	1:M:734:ASN:O	2.20	0.42
1:N:654:PRO:HB3	1:N:666:PHE:CE2	2.54	0.42
1:O:269:ASP:O	1:n:432:ARG:NH2	2.53	0.42
1:O:379:THR:HG22	1:O:380:LEU:N	2.35	0.42
1:P:379:THR:HG22	1:P:380:LEU:N	2.35	0.42
1:Q:710:VAL:HG13	1:Q:713:THR:HB	2.01	0.42
1:S:252:TYR:CE1	1:S:374:GLN:HB2	2.55	0.42
1:T:252:TYR:CE1	1:T:374:GLN:HB2	2.55	0.42
1:U:379:THR:HG22	1:U:380:LEU:N	2.35	0.42
1:U:733:ARG:HG2	1:U:734:ASN:O	2.20	0.42
1:V:432:ARG:NH2	1:e:269:ASP:O	2.52	0.42
1:W:301:ASN:O	1:W:731:LEU:HD11	2.19	0.42
1:W:710:VAL:HG13	1:W:713:THR:HB	2.01	0.42
1:X:518:ASN:O	1:X:519:PRO:C	2.61	0.42
1:Y:710:VAL:HG13	1:Y:713:THR:HB	2.01	0.42
1:b:585:ARG:N	1:b:588:ARG:HB3	2.35	0.42
1:c:252:TYR:CE1	1:c:374:GLN:HB2	2.55	0.42
1:d:238:ARG:HD2	1:d:683:GLU:OE2	2.19	0.42
1:d:543:GLY:HA2	1:d:557:VAL:HG12	2.00	0.42
1:e:654:PRO:HB3	1:e:666:PHE:CE2	2.54	0.42
1:f:238:ARG:HD2	1:f:683:GLU:OE2	2.19	0.42
1:f:710:VAL:HG13	1:f:713:THR:HB	2.01	0.42
1:g:336:LEU:HD13	1:g:336:LEU:HA	1.91	0.42
1:i:432:ARG:NH2	1:j:269:ASP:O	2.53	0.42
1:i:633:LEU:HB2	1:k:476:ASN:O	2.19	0.42
1:j:413:TYR:CG	1:j:414:THR:N	2.86	0.42
1:j:432:ARG:NH2	1:k:269:ASP:O	2.53	0.42
1:j:476:ASN:O	1:k:633:LEU:HB2	2.20	0.42
1:l:252:TYR:CE1	1:l:374:GLN:HB2	2.55	0.42
1:l:446:SER:OG	1:l:447:ARG:N	2.52	0.42
1:n:301:ASN:O	1:n:731:LEU:HD11	2.19	0.42
1:p:252:TYR:CE1	1:p:374:GLN:HB2	2.54	0.42
1:p:421:HIS:HB2	1:p:637:PHE:CE1	2.54	0.42
1:q:379:THR:HG22	1:q:380:LEU:N	2.35	0.42
1:q:633:LEU:HB2	1:s:476:ASN:O	2.19	0.42
1:t:446:SER:OG	1:t:447:ARG:N	2.52	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:t:530:GLU:C	1:t:532:LYS:N	2.77	0.42
1:t:733:ARG:HG2	1:t:734:ASN:O	2.20	0.42
1:u:252:TYR:CE1	1:u:374:GLN:HB2	2.55	0.42
1:v:252:TYR:CE1	1:v:374:GLN:HB2	2.54	0.42
1:v:379:THR:HG22	1:v:380:LEU:N	2.35	0.42
1:v:733:ARG:HG2	1:v:734:ASN:O	2.20	0.42
1:w:252:TYR:CE1	1:w:374:GLN:HB2	2.55	0.42
1:z:654:PRO:HB3	1:z:666:PHE:CE2	2.54	0.42
1:1:301:ASN:O	1:1:731:LEU:HD11	2.19	0.42
1:3:633:LEU:HB2	1:4:476:ASN:O	2.19	0.42
1:4:379:THR:HG22	1:4:380:LEU:N	2.35	0.42
1:5:518:ASN:O	1:5:519:PRO:C	2.61	0.42
1:7:309:LYS:HD2	1:7:309:LYS:HA	1.74	0.42
1:7:446:SER:OG	1:7:447:ARG:N	2.52	0.42
1:8:379:THR:HG22	1:8:380:LEU:N	2.35	0.42
1:8:654:PRO:HB3	1:8:666:PHE:CE2	2.54	0.42
1:A:379:THR:HG22	1:A:380:LEU:N	2.35	0.42
1:A:476:ASN:O	1:G:633:LEU:HB2	2.20	0.42
1:B:582:ASN:HB2	1:B:588:ARG:NE	2.34	0.42
1:C:436:PRO:HG3	1:b:378:LEU:HG	2.00	0.42
1:D:252:TYR:CE1	1:D:374:GLN:HB2	2.55	0.42
1:D:379:THR:HG22	1:D:380:LEU:N	2.35	0.42
1:E:543:GLY:HA2	1:E:557:VAL:HG12	2.00	0.42
1:G:252:TYR:CE1	1:G:374:GLN:HB2	2.54	0.42
1:G:421:HIS:HB2	1:G:637:PHE:CE1	2.54	0.42
1:H:476:ASN:O	1:W:633:LEU:HB2	2.19	0.42
1:K:252:TYR:CE1	1:K:374:GLN:HB2	2.55	0.42
1:K:379:THR:HG22	1:K:380:LEU:N	2.35	0.42
1:K:509:HIS:CB	1:K:514:ASP:HA	2.45	0.42
1:L:379:THR:HG22	1:L:380:LEU:N	2.35	0.42
1:L:421:HIS:HB2	1:L:637:PHE:CE1	2.54	0.42
1:M:633:LEU:HB2	1:b:476:ASN:O	2.20	0.42
1:O:436:PRO:HG3	1:m:378:LEU:HG	2.00	0.42
1:O:733:ARG:HG2	1:O:734:ASN:O	2.20	0.42
1:P:343:PHE:HB3	1:P:400:SER:CA	2.46	0.42
1:P:582:ASN:HB2	1:P:588:ARG:NE	2.34	0.42
1:Q:421:HIS:HB2	1:Q:637:PHE:HE1	1.85	0.42
1:R:269:ASP:O	1:U:432:ARG:NH2	2.52	0.42
1:R:476:ASN:O	1:S:633:LEU:HB2	2.19	0.42
1:R:733:ARG:HG2	1:R:734:ASN:O	2.20	0.42
1:S:710:VAL:HG13	1:S:713:THR:HB	2.01	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:T:301:ASN:O	1:T:731:LEU:HD11	2.19	0.42
1:U:252:TYR:CE1	1:U:374:GLN:HB2	2.55	0.42
1:W:530:GLU:O	1:W:532:LYS:N	2.53	0.42
1:X:733:ARG:HG2	1:X:734:ASN:O	2.20	0.42
1:c:235:MET:HB2	1:c:238:ARG:HG3	2.00	0.42
1:c:421:HIS:HB2	1:c:637:PHE:HE1	1.85	0.42
1:d:461:GLN:HG2	1:l:553:ASP:OD1	2.19	0.42
1:e:252:TYR:CE1	1:e:374:GLN:HB2	2.55	0.42
1:f:413:TYR:CG	1:f:414:THR:N	2.86	0.42
1:f:432:ARG:NH2	1:h:269:ASP:O	2.53	0.42
1:f:733:ARG:HG2	1:f:734:ASN:O	2.20	0.42
1:j:563:GLU:OE1	1:j:563:GLU:N	2.51	0.42
1:l:518:ASN:O	1:l:519:PRO:C	2.61	0.42
1:n:252:TYR:CE1	1:n:374:GLN:HB2	2.55	0.42
1:n:518:ASN:O	1:n:519:PRO:C	2.61	0.42
1:q:301:ASN:O	1:q:731:LEU:HD11	2.19	0.42
1:q:489:SER:C	1:q:495:ASN:HD21	2.26	0.42
1:s:653:VAL:HA	1:s:654:PRO:HD3	1.93	0.42
1:u:710:VAL:HG13	1:u:713:THR:HB	2.01	0.42
1:w:563:GLU:OE1	1:w:563:GLU:N	2.51	0.42
1:w:654:PRO:HB3	1:w:666:PHE:CE2	2.54	0.42
1:w:733:ARG:HG2	1:w:734:ASN:O	2.20	0.42
1:x:518:ASN:O	1:x:519:PRO:C	2.61	0.42
1:x:733:ARG:HG2	1:x:734:ASN:O	2.20	0.42
1:y:235:MET:HB2	1:y:238:ARG:HG3	2.00	0.42
1:y:654:PRO:HB3	1:y:666:PHE:CE2	2.54	0.42
1:z:252:TYR:CE1	1:z:374:GLN:HB2	2.55	0.42
1:3:379:THR:HG22	1:3:380:LEU:N	2.35	0.42
1:5:413:TYR:CG	1:5:414:THR:N	2.86	0.42
1:6:235:MET:HB2	1:6:238:ARG:HG3	2.00	0.42
1:6:301:ASN:O	1:6:731:LEU:HD11	2.19	0.42
1:6:498:SER:OG	1:6:499:GLU:N	2.49	0.42
1:7:294:ARG:HH12	1:7:298:ARG:HB2	1.83	0.42
1:7:301:ASN:O	1:7:731:LEU:HD11	2.19	0.42
1:7:395:LEU:HD23	1:7:395:LEU:HA	1.83	0.42
1:A:498:SER:OG	1:A:499:GLU:N	2.49	0.42
1:A:733:ARG:HG2	1:A:734:ASN:O	2.20	0.42
1:C:379:THR:HG22	1:C:380:LEU:N	2.35	0.42
1:C:530:GLU:O	1:C:532:LYS:N	2.53	0.42
1:E:238:ARG:HD2	1:E:683:GLU:OE2	2.19	0.42
1:E:294:ARG:HH12	1:E:298:ARG:HB2	1.83	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:309:LYS:HD2	1:E:309:LYS:HA	1.74	0.42
1:F:301:ASN:O	1:F:731:LEU:HD11	2.19	0.42
1:G:379:THR:HG22	1:G:380:LEU:N	2.35	0.42
1:G:544:LYS:O	1:G:547:SER:OG	2.30	0.42
1:H:309:LYS:HA	1:H:309:LYS:HD2	1.74	0.42
1:H:395:LEU:HD23	1:H:395:LEU:HA	1.82	0.42
1:H:432:ARG:NH2	1:W:269:ASP:O	2.53	0.42
1:I:413:TYR:CG	1:I:414:THR:N	2.86	0.42
1:I:421:HIS:HB2	1:I:637:PHE:HE1	1.85	0.42
1:K:365:PHE:HA	1:K:366:PRO:HD3	1.93	0.42
1:L:654:PRO:HB3	1:L:666:PHE:CE2	2.54	0.42
1:L:733:ARG:HG2	1:L:734:ASN:O	2.20	0.42
1:O:585:ARG:N	1:O:588:ARG:HB3	2.35	0.42
1:P:365:PHE:HA	1:P:366:PRO:HD3	1.94	0.42
1:P:654:PRO:HB3	1:P:666:PHE:CE2	2.54	0.42
1:Q:413:TYR:CG	1:Q:414:THR:N	2.86	0.42
1:Q:518:ASN:O	1:Q:519:PRO:C	2.61	0.42
1:R:633:LEU:HB2	1:U:476:ASN:O	2.19	0.42
1:T:238:ARG:HD2	1:T:683:GLU:OE2	2.19	0.42
1:U:654:PRO:HB3	1:U:666:PHE:CE2	2.54	0.42
1:V:654:PRO:HB3	1:V:666:PHE:CE2	2.54	0.42
1:W:489:SER:C	1:W:495:ASN:HD21	2.26	0.42
1:W:530:GLU:C	1:W:532:LYS:N	2.76	0.42
1:X:654:PRO:HB3	1:X:666:PHE:CE2	2.54	0.42
1:Y:483:TYR:OH	1:Y:506:THR:OG1	2.26	0.42
1:a:473:GLN:O	1:8:518:ASN:ND2	2.53	0.42
1:b:371:MET:CE	1:o:661:PHE:HA	2.39	0.42
1:b:421:HIS:HB2	1:b:637:PHE:HE1	1.85	0.42
1:c:413:TYR:CG	1:c:414:THR:N	2.86	0.42
1:d:585:ARG:N	1:d:588:ARG:HB3	2.35	0.42
1:e:294:ARG:HH12	1:e:298:ARG:HB2	1.83	0.42
1:e:301:ASN:O	1:e:731:LEU:HD11	2.19	0.42
1:e:421:HIS:HB2	1:e:637:PHE:HE1	1.85	0.42
1:e:733:ARG:HG2	1:e:734:ASN:O	2.20	0.42
1:g:343:PHE:HB3	1:g:400:SER:CA	2.46	0.42
1:i:269:ASP:O	1:k:432:ARG:NH2	2.52	0.42
1:i:336:LEU:HD13	1:i:336:LEU:HA	1.90	0.42
1:j:301:ASN:O	1:j:731:LEU:HD11	2.19	0.42
1:j:530:GLU:C	1:j:532:LYS:N	2.77	0.42
1:l:654:PRO:HB3	1:l:666:PHE:CE2	2.54	0.42
1:o:252:TYR:CE1	1:o:374:GLN:HB2	2.54	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:o:379:THR:HG22	1:o:380:LEU:N	2.35	0.42
1:o:498:SER:OG	1:o:499:GLU:N	2.49	0.42
1:q:530:GLU:O	1:q:532:LYS:N	2.53	0.42
1:r:365:PHE:HA	1:r:366:PRO:HD3	1.94	0.42
1:r:476:ASN:O	1:s:633:LEU:HB2	2.19	0.42
1:u:379:THR:HG22	1:u:380:LEU:N	2.35	0.42
1:u:500:TYR:O	1:u:501:SER:OG	2.24	0.42
1:v:301:ASN:O	1:v:731:LEU:HD11	2.19	0.42
1:w:492:SER:H	1:y:459:ARG:HH12	1.68	0.42
1:w:589:GLN:HA	1:x:496:ASN:ND2	2.33	0.42
1:x:585:ARG:N	1:x:588:ARG:HB3	2.35	0.42
1:y:301:ASN:O	1:y:731:LEU:HD11	2.19	0.42
1:z:518:ASN:O	1:z:519:PRO:C	2.61	0.42
1:1:654:PRO:HB3	1:1:666:PHE:CE2	2.54	0.42
1:2:294:ARG:HH12	1:2:298:ARG:HB2	1.84	0.42
1:2:585:ARG:N	1:2:588:ARG:HB3	2.35	0.42
1:3:421:HIS:HB2	1:3:637:PHE:CE1	2.54	0.42
1:3:733:ARG:HG2	1:3:734:ASN:O	2.20	0.42
1:4:252:TYR:CE1	1:4:374:GLN:HB2	2.55	0.42
1:6:446:SER:OG	1:6:447:ARG:N	2.52	0.42
1:8:693:ARG:NE	1:8:695:ASN:OD1	2.41	0.42
1:A:252:TYR:CE1	1:A:374:GLN:HB2	2.55	0.42
1:A:661:PHE:HA	1:B:371:MET:CE	2.39	0.42
1:C:301:ASN:O	1:C:731:LEU:HD11	2.19	0.42
1:C:421:HIS:HB2	1:C:637:PHE:HE1	1.85	0.42
1:C:654:PRO:HB3	1:C:666:PHE:CE2	2.54	0.42
1:E:301:ASN:O	1:E:731:LEU:HD11	2.19	0.42
1:E:710:VAL:HG13	1:E:713:THR:HB	2.01	0.42
1:F:446:SER:OG	1:F:447:ARG:N	2.52	0.42
1:H:653:VAL:HA	1:H:654:PRO:HD3	1.93	0.42
1:H:733:ARG:HG2	1:H:734:ASN:O	2.20	0.42
1:I:585:ARG:N	1:I:588:ARG:HB3	2.35	0.42
1:J:235:MET:HB2	1:J:238:ARG:HG3	2.00	0.42
1:J:379:THR:HG22	1:J:380:LEU:N	2.35	0.42
1:K:238:ARG:HD2	1:K:683:GLU:OE2	2.19	0.42
1:L:301:ASN:O	1:L:731:LEU:HD11	2.19	0.42
1:L:421:HIS:HB2	1:L:637:PHE:HE1	1.85	0.42
1:N:446:SER:OG	1:N:447:ARG:N	2.52	0.42
1:O:301:ASN:O	1:O:731:LEU:HD11	2.19	0.42
1:Q:489:SER:C	1:Q:495:ASN:HD21	2.26	0.42
1:R:365:PHE:HA	1:R:366:PRO:HD3	1.94	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:S:379:THR:HG22	1:S:380:LEU:N	2.35	0.42
1:S:483:TYR:OH	1:S:506:THR:OG1	2.27	0.42
1:S:563:GLU:OE1	1:S:563:GLU:N	2.51	0.42
1:V:235:MET:HB2	1:V:238:ARG:HG3	2.00	0.42
1:V:269:ASP:O	1:X:432:ARG:NH2	2.52	0.42
1:V:301:ASN:O	1:V:731:LEU:HD11	2.19	0.42
1:V:530:GLU:C	1:V:532:LYS:N	2.77	0.42
1:W:436:PRO:HG3	1:Y:378:LEU:HG	2.00	0.42
1:X:421:HIS:HB2	1:X:637:PHE:HE1	1.85	0.42
1:X:585:ARG:N	1:X:588:ARG:HB3	2.35	0.42
1:Z:432:ARG:NH2	1:4:269:ASP:O	2.52	0.42
1:a:436:PRO:HG3	1:8:378:LEU:HG	2.01	0.42
1:a:441:TYR:CE2	1:8:357:ALA:HB1	2.54	0.42
1:b:582:ASN:HB2	1:b:588:ARG:NE	2.34	0.42
1:d:309:LYS:HA	1:d:309:LYS:HD2	1.74	0.42
1:f:301:ASN:O	1:f:731:LEU:HD11	2.19	0.42
1:f:461:GLN:HG2	1:h:553:ASP:OD1	2.20	0.42
1:f:530:GLU:C	1:f:532:LYS:N	2.77	0.42
1:g:379:THR:HG22	1:g:380:LEU:N	2.35	0.42
1:i:459:ARG:HH12	1:j:492:SER:H	1.67	0.42
1:j:336:LEU:HD13	1:j:336:LEU:HA	1.91	0.42
1:j:459:ARG:HH12	1:k:492:SER:H	1.67	0.42
1:j:518:ASN:O	1:j:519:PRO:C	2.61	0.42
1:j:710:VAL:HG13	1:j:713:THR:HB	2.01	0.42
1:j:733:ARG:HG2	1:j:734:ASN:O	2.20	0.42
1:m:446:SER:OG	1:m:447:ARG:N	2.52	0.42
1:m:582:ASN:HB2	1:m:588:ARG:NE	2.34	0.42
1:n:450:THR:H	1:n:458:SER:HB3	1.83	0.42
1:o:733:ARG:HG2	1:o:734:ASN:O	2.20	0.42
1:p:403:LEU:HD23	1:p:403:LEU:HA	1.84	0.42
1:q:530:GLU:C	1:q:532:LYS:N	2.77	0.42
1:s:446:SER:OG	1:s:447:ARG:N	2.52	0.42
1:t:633:LEU:HB2	1:v:476:ASN:O	2.19	0.42
1:u:446:SER:OG	1:u:447:ARG:N	2.52	0.42
1:v:654:PRO:HB3	1:v:666:PHE:CE2	2.54	0.42
1:w:294:ARG:HH12	1:w:298:ARG:HB2	1.83	0.42
1:w:301:ASN:O	1:w:731:LEU:HD11	2.19	0.42
1:x:421:HIS:HB2	1:x:637:PHE:HE1	1.85	0.42
1:x:654:PRO:HB3	1:x:666:PHE:CE2	2.54	0.42
1:y:710:VAL:HG13	1:y:713:THR:HB	2.01	0.42
1:z:446:SER:OG	1:z:447:ARG:N	2.52	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:4:489:SER:C	1:4:495:ASN:HD21	2.26	0.42
1:5:421:HIS:HB2	1:5:637:PHE:HE1	1.85	0.42
1:7:710:VAL:HG13	1:7:713:THR:HB	2.01	0.42
1:8:343:PHE:HB3	1:8:400:SER:CA	2.46	0.42
1:8:446:SER:OG	1:8:447:ARG:N	2.52	0.42
1:A:413:TYR:CG	1:A:414:THR:N	2.87	0.42
1:B:365:PHE:HA	1:B:366:PRO:HD3	1.94	0.42
1:B:421:HIS:HB2	1:B:637:PHE:HE1	1.85	0.42
1:C:733:ARG:HG2	1:C:734:ASN:O	2.20	0.42
1:D:269:ASP:O	1:P:432:ARG:NH2	2.53	0.42
1:D:589:GLN:HA	1:N:496:ASN:ND2	2.33	0.42
1:E:252:TYR:CE1	1:E:374:GLN:HB2	2.55	0.42
1:G:509:HIS:CB	1:G:514:ASP:HA	2.45	0.42
1:J:421:HIS:HB2	1:J:637:PHE:CE1	2.54	0.42
1:J:421:HIS:HB2	1:J:637:PHE:HE1	1.85	0.42
1:L:710:VAL:HG13	1:L:713:THR:HB	2.01	0.42
1:M:235:MET:HB2	1:M:238:ARG:HG3	2.00	0.42
1:M:379:THR:HG22	1:M:380:LEU:N	2.35	0.42
1:M:496:ASN:ND2	1:b:589:GLN:HA	2.33	0.42
1:N:432:ARG:NH2	1:P:269:ASP:O	2.52	0.42
1:O:413:TYR:CG	1:O:414:THR:N	2.86	0.42
1:O:461:GLN:HG2	1:m:553:ASP:OD1	2.20	0.42
1:P:252:TYR:CE1	1:P:374:GLN:HB2	2.55	0.42
1:R:710:VAL:HG13	1:R:713:THR:HB	2.01	0.42
1:S:446:SER:OG	1:S:447:ARG:N	2.52	0.42
1:T:379:THR:HG22	1:T:380:LEU:N	2.35	0.42
1:T:733:ARG:HG2	1:T:734:ASN:O	2.20	0.42
1:U:301:ASN:O	1:U:731:LEU:HD11	2.19	0.42
1:V:239:VAL:HG13	1:V:684:TRP:HB2	2.02	0.42
1:V:395:LEU:HA	1:V:395:LEU:HD23	1.82	0.42
1:V:710:VAL:HG13	1:V:713:THR:HB	2.01	0.42
1:W:509:HIS:CB	1:W:514:ASP:HA	2.45	0.42
1:Y:699:GLN:HB2	1:Z:701:THR:HG1	1.84	0.42
1:Y:733:ARG:HG2	1:Y:734:ASN:O	2.20	0.42
1:Z:446:SER:OG	1:Z:447:ARG:N	2.52	0.42
1:c:585:ARG:N	1:c:588:ARG:HB3	2.35	0.42
1:e:446:SER:OG	1:e:447:ARG:N	2.52	0.42
1:i:343:PHE:HB3	1:i:400:SER:CA	2.46	0.42
1:i:379:THR:HG22	1:i:380:LEU:N	2.35	0.42
1:i:421:HIS:HB2	1:i:637:PHE:HE1	1.85	0.42
1:j:421:HIS:HB2	1:j:637:PHE:HE1	1.85	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:l:301:ASN:O	1:l:731:LEU:HD11	2.19	0.42
1:m:653:VAL:HA	1:m:654:PRO:HD3	1.93	0.42
1:n:421:HIS:HB2	1:n:637:PHE:HE1	1.85	0.42
1:n:489:SER:C	1:n:495:ASN:HD21	2.26	0.42
1:n:543:GLY:HA2	1:n:557:VAL:HG12	2.00	0.42
1:o:413:TYR:CG	1:o:414:THR:N	2.86	0.42
1:o:476:ASN:O	1:p:633:LEU:HB2	2.20	0.42
1:p:301:ASN:O	1:p:731:LEU:HD11	2.19	0.42
1:p:379:THR:HG22	1:p:380:LEU:N	2.35	0.42
1:p:544:LYS:O	1:p:547:SER:OG	2.30	0.42
1:p:710:VAL:HG13	1:p:713:THR:HB	2.01	0.42
1:q:432:ARG:NH2	1:r:269:ASP:O	2.52	0.42
1:q:509:HIS:CB	1:q:514:ASP:HA	2.45	0.42
1:r:733:ARG:HG2	1:r:734:ASN:O	2.20	0.42
1:s:733:ARG:HG2	1:s:734:ASN:O	2.20	0.42
1:v:403:LEU:HD23	1:v:403:LEU:HA	1.84	0.42
1:w:710:VAL:HG13	1:w:713:THR:HB	2.01	0.42
1:y:239:VAL:HG13	1:y:684:TRP:HB2	2.02	0.42
1:y:530:GLU:C	1:y:532:LYS:N	2.77	0.42
1:z:301:ASN:O	1:z:731:LEU:HD11	2.19	0.42
1:z:462:PHE:HE1	1:1:541:ILE:HD13	1.85	0.42
1:1:238:ARG:HD2	1:1:683:GLU:OE2	2.19	0.42
1:3:301:ASN:O	1:3:731:LEU:HD11	2.19	0.42
1:3:413:TYR:CG	1:3:414:THR:N	2.86	0.42
1:3:585:ARG:N	1:3:588:ARG:HB3	2.35	0.42
1:5:461:GLN:HG2	1:6:553:ASP:OD1	2.20	0.42
1:6:432:ARG:NH2	1:7:269:ASP:O	2.53	0.42
1:7:252:TYR:CE1	1:7:374:GLN:HB2	2.55	0.42
1:B:589:GLN:HA	1:J:496:ASN:ND2	2.33	0.42
1:B:633:LEU:HB2	1:L:476:ASN:O	2.19	0.42
1:D:301:ASN:O	1:D:731:LEU:HD11	2.19	0.42
1:D:365:PHE:HA	1:D:366:PRO:HD3	1.94	0.42
1:D:459:ARG:HH12	1:N:492:SER:H	1.67	0.42
1:E:476:ASN:O	1:Q:633:LEU:HB2	2.19	0.42
1:E:492:SER:H	1:F:459:ARG:HH12	1.67	0.42
1:E:563:GLU:OE1	1:E:563:GLU:N	2.51	0.42
1:F:269:ASP:O	1:Q:432:ARG:NH2	2.52	0.42
1:F:309:LYS:HA	1:F:309:LYS:HD2	1.74	0.42
1:G:301:ASN:O	1:G:731:LEU:HD11	2.19	0.42
1:G:421:HIS:HB2	1:G:637:PHE:HE1	1.85	0.42
1:G:710:VAL:HG13	1:G:713:THR:HB	2.01	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:446:SER:OG	1:H:447:ARG:N	2.52	0.42
1:H:585:ARG:N	1:H:588:ARG:HB3	2.35	0.42
1:H:710:VAL:HG13	1:H:713:THR:HB	2.01	0.42
1:J:489:SER:C	1:J:495:ASN:HD21	2.26	0.42
1:K:461:GLN:HG2	1:a:553:ASP:OD1	2.20	0.42
1:M:421:HIS:HB2	1:M:637:PHE:CE1	2.54	0.42
1:M:489:SER:C	1:M:495:ASN:HD21	2.26	0.42
1:M:509:HIS:CB	1:M:514:ASP:HA	2.45	0.42
1:O:633:LEU:HB2	1:n:476:ASN:O	2.19	0.42
1:P:446:SER:OG	1:P:447:ARG:N	2.52	0.42
1:Q:654:PRO:HB3	1:Q:666:PHE:CE2	2.54	0.42
1:S:239:VAL:HG13	1:S:684:TRP:HB2	2.02	0.42
1:S:733:ARG:HG2	1:S:734:ASN:O	2.20	0.42
1:T:518:ASN:O	1:T:519:PRO:C	2.61	0.42
1:T:654:PRO:HB3	1:T:666:PHE:CE2	2.54	0.42
1:U:518:ASN:O	1:U:519:PRO:C	2.61	0.42
1:V:633:LEU:HB2	1:X:476:ASN:O	2.20	0.42
1:W:432:ARG:NH2	1:Y:269:ASP:O	2.52	0.42
1:X:710:VAL:HG13	1:X:713:THR:HB	2.01	0.42
1:Z:239:VAL:HG13	1:Z:684:TRP:HB2	2.02	0.42
1:Z:582:ASN:HB2	1:Z:588:ARG:NE	2.34	0.42
1:a:301:ASN:O	1:a:731:LEU:HD11	2.19	0.42
1:a:461:GLN:HG2	1:8:553:ASP:OD1	2.20	0.42
1:c:309:LYS:HD2	1:c:309:LYS:HA	1.74	0.42
1:e:710:VAL:HG13	1:e:713:THR:HB	2.01	0.42
1:f:421:HIS:HB2	1:f:637:PHE:HE1	1.85	0.42
1:f:518:ASN:O	1:f:519:PRO:C	2.61	0.42
1:g:252:TYR:CE1	1:g:374:GLN:HB2	2.55	0.42
1:g:421:HIS:HB2	1:g:637:PHE:HE1	1.85	0.42
1:g:701:THR:HG1	1:z:699:GLN:HB2	1.84	0.42
1:i:252:TYR:CE1	1:i:374:GLN:HB2	2.55	0.42
1:l:582:ASN:HB2	1:l:588:ARG:NE	2.34	0.42
1:m:432:ARG:NH2	1:n:269:ASP:O	2.53	0.42
1:p:421:HIS:HB2	1:p:637:PHE:HE1	1.85	0.42
1:q:436:PRO:HG3	1:r:378:LEU:HG	2.00	0.42
1:s:301:ASN:O	1:s:731:LEU:HD11	2.19	0.42
1:s:585:ARG:N	1:s:588:ARG:HB3	2.35	0.42
1:s:654:PRO:HB3	1:s:666:PHE:CE2	2.54	0.42
1:t:365:PHE:HA	1:t:366:PRO:HD3	1.94	0.42
1:u:563:GLU:OE1	1:u:563:GLU:N	2.51	0.42
1:w:446:SER:OG	1:w:447:ARG:N	2.52	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:x:710:VAL:HG13	1:x:713:THR:HB	2.01	0.42
1:y:733:ARG:HG2	1:y:734:ASN:O	2.20	0.42
1:z:269:ASP:O	1:2:432:ARG:NH2	2.52	0.42
1:z:421:HIS:HB2	1:z:637:PHE:HE1	1.85	0.42
1:z:492:SER:H	1:2:459:ARG:HH12	1.66	0.42
1:1:309:LYS:HD2	1:1:309:LYS:HA	1.74	0.42
1:1:379:THR:HG22	1:1:380:LEU:N	2.35	0.42
1:1:733:ARG:HG2	1:1:734:ASN:O	2.20	0.42
1:4:543:GLY:HA2	1:4:557:VAL:HG12	2.00	0.42
1:4:585:ARG:N	1:4:588:ARG:HB3	2.35	0.42
1:4:733:ARG:HG2	1:4:734:ASN:O	2.20	0.42
1:5:661:PHE:HA	1:8:371:MET:CE	2.42	0.42
1:6:379:THR:HG22	1:6:380:LEU:N	2.35	0.42
1:6:476:ASN:O	1:7:633:LEU:HB2	2.19	0.42
1:7:238:ARG:HD2	1:7:683:GLU:OE2	2.19	0.42
1:8:252:TYR:CE1	1:8:374:GLN:HB2	2.55	0.42
1:B:518:ASN:O	1:B:519:PRO:C	2.61	0.41
1:D:446:SER:OG	1:D:447:ARG:N	2.52	0.41
1:E:421:HIS:HB2	1:E:637:PHE:HE1	1.85	0.41
1:E:654:PRO:HB3	1:E:666:PHE:CE2	2.54	0.41
1:F:379:THR:HG22	1:F:380:LEU:N	2.35	0.41
1:G:432:ARG:NH2	1:I:269:ASP:O	2.53	0.41
1:H:301:ASN:O	1:H:731:LEU:HD11	2.19	0.41
1:J:585:ARG:N	1:J:588:ARG:HB3	2.35	0.41
1:K:446:SER:OG	1:K:447:ARG:N	2.52	0.41
1:K:633:LEU:HB2	1:8:476:ASN:O	2.19	0.41
1:M:252:TYR:CE1	1:M:374:GLN:HB2	2.55	0.41
1:M:421:HIS:HB2	1:M:637:PHE:HE1	1.85	0.41
1:M:585:ARG:N	1:M:588:ARG:HB3	2.35	0.41
1:N:372:VAL:HA	1:N:373:PRO:HD3	1.92	0.41
1:N:379:THR:HG22	1:N:380:LEU:N	2.35	0.41
1:P:421:HIS:HB2	1:P:637:PHE:HE1	1.85	0.41
1:T:446:SER:OG	1:T:447:ARG:N	2.52	0.41
1:V:733:ARG:HG2	1:V:734:ASN:O	2.20	0.41
1:W:733:ARG:HG2	1:W:734:ASN:O	2.20	0.41
1:X:379:THR:HG22	1:X:380:LEU:N	2.35	0.41
1:Y:379:THR:HG22	1:Y:380:LEU:N	2.35	0.41
1:Z:489:SER:C	1:Z:495:ASN:HD21	2.26	0.41
1:Z:653:VAL:HA	1:Z:654:PRO:HD3	1.93	0.41
1:b:365:PHE:HA	1:b:366:PRO:HD3	1.94	0.41
1:b:379:THR:HG22	1:b:380:LEU:N	2.35	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:b:518:ASN:O	1:b:519:PRO:C	2.61	0.41
1:b:530:GLU:O	1:b:532:LYS:N	2.53	0.41
1:c:553:ASP:OD1	1:p:461:GLN:HG2	2.20	0.41
1:g:553:ASP:OD1	1:h:461:GLN:HG2	2.20	0.41
1:h:272:TYR:HB2	1:h:378:LEU:HD22	2.02	0.41
1:h:294:ARG:HH12	1:h:298:ARG:HB2	1.83	0.41
1:i:239:VAL:HG13	1:i:684:TRP:HB2	2.02	0.41
1:i:446:SER:OG	1:i:447:ARG:N	2.52	0.41
1:i:476:ASN:O	1:j:633:LEU:HB2	2.19	0.41
1:i:544:LYS:O	1:i:547:SER:OG	2.30	0.41
1:j:252:TYR:CE1	1:j:374:GLN:HB2	2.54	0.41
1:k:252:TYR:CE1	1:k:374:GLN:HB2	2.55	0.41
1:k:272:TYR:HB2	1:k:378:LEU:HD22	2.02	0.41
1:k:294:ARG:HH12	1:k:298:ARG:HB2	1.83	0.41
1:l:421:HIS:HB2	1:l:637:PHE:HE1	1.85	0.41
1:l:733:ARG:HG2	1:l:734:ASN:O	2.20	0.41
1:m:239:VAL:HG13	1:m:684:TRP:HB2	2.02	0.41
1:o:446:SER:OG	1:o:447:ARG:N	2.52	0.41
1:p:509:HIS:CB	1:p:514:ASP:HA	2.45	0.41
1:q:269:ASP:O	1:s:432:ARG:NH2	2.53	0.41
1:t:421:HIS:HB2	1:t:637:PHE:HE1	1.85	0.41
1:t:710:VAL:HG13	1:t:713:THR:HB	2.01	0.41
1:u:421:HIS:HB2	1:u:637:PHE:HE1	1.85	0.41
1:u:733:ARG:HG2	1:u:734:ASN:O	2.20	0.41
1:1:239:VAL:HG13	1:1:684:TRP:HB2	2.02	0.41
1:2:733:ARG:HG2	1:2:734:ASN:O	2.20	0.41
1:3:378:LEU:HG	1:4:436:PRO:HG3	2.01	0.41
1:4:450:THR:H	1:4:458:SER:HB3	1.83	0.41
1:5:489:SER:C	1:5:495:ASN:HD21	2.26	0.41
1:7:654:PRO:HB3	1:7:666:PHE:CE2	2.54	0.41
1:8:365:PHE:HA	1:8:366:PRO:HD3	1.94	0.41
1:8:421:HIS:HB2	1:8:637:PHE:HE1	1.85	0.41
1:A:446:SER:OG	1:A:447:ARG:N	2.52	0.41
1:A:489:SER:C	1:A:495:ASN:HD21	2.26	0.41
1:C:272:TYR:HB2	1:C:378:LEU:HD22	2.03	0.41
1:D:518:ASN:O	1:D:519:PRO:C	2.61	0.41
1:E:269:ASP:O	1:F:432:ARG:NH2	2.53	0.41
1:E:489:SER:C	1:E:495:ASN:HD21	2.26	0.41
1:E:633:LEU:HB2	1:F:476:ASN:O	2.19	0.41
1:F:252:TYR:CE1	1:F:374:GLN:HB2	2.55	0.41
1:G:239:VAL:HG13	1:G:684:TRP:HB2	2.02	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:633:LEU:HB2	1:Y:476:ASN:O	2.19	0.41
1:H:654:PRO:HB3	1:H:666:PHE:CE2	2.54	0.41
1:I:272:TYR:HB2	1:I:378:LEU:HD22	2.02	0.41
1:J:252:TYR:CE1	1:J:374:GLN:HB2	2.54	0.41
1:J:509:HIS:CB	1:J:514:ASP:HA	2.45	0.41
1:L:272:TYR:HB2	1:L:378:LEU:HD22	2.03	0.41
1:N:301:ASN:O	1:N:731:LEU:HD11	2.19	0.41
1:S:476:ASN:O	1:U:633:LEU:HB2	2.19	0.41
1:S:518:ASN:O	1:S:519:PRO:C	2.61	0.41
1:T:239:VAL:HG13	1:T:684:TRP:HB2	2.02	0.41
1:T:568:THR:OG1	1:T:569:ASN:N	2.54	0.41
1:V:336:LEU:HD13	1:V:336:LEU:HA	1.91	0.41
1:X:496:ASN:ND2	1:e:589:GLN:HA	2.34	0.41
1:Y:252:TYR:CE1	1:Y:374:GLN:HB2	2.55	0.41
1:a:379:THR:HG22	1:a:380:LEU:N	2.35	0.41
1:c:269:ASP:O	1:p:432:ARG:NH2	2.53	0.41
1:c:476:ASN:O	1:o:633:LEU:HB2	2.19	0.41
1:d:301:ASN:O	1:d:731:LEU:HD11	2.19	0.41
1:d:432:ARG:NH2	1:l:269:ASP:O	2.52	0.41
1:e:272:TYR:HB2	1:e:378:LEU:HD22	2.03	0.41
1:e:568:THR:OG1	1:e:569:ASN:N	2.54	0.41
1:f:252:TYR:CE1	1:f:374:GLN:HB2	2.54	0.41
1:f:357:ALA:HB1	1:g:441:TYR:CE2	2.54	0.41
1:g:239:VAL:HG13	1:g:684:TRP:HB2	2.02	0.41
1:g:301:ASN:O	1:g:731:LEU:HD11	2.19	0.41
1:h:252:TYR:CE1	1:h:374:GLN:HB2	2.55	0.41
1:h:301:ASN:O	1:h:731:LEU:HD11	2.19	0.41
1:h:309:LYS:HA	1:h:309:LYS:HD2	1.74	0.41
1:h:585:ARG:N	1:h:588:ARG:HB3	2.35	0.41
1:m:252:TYR:CE1	1:m:374:GLN:HB2	2.55	0.41
1:m:489:SER:C	1:m:495:ASN:HD21	2.26	0.41
1:m:710:VAL:HG13	1:m:713:THR:HB	2.01	0.41
1:n:733:ARG:HG2	1:n:734:ASN:O	2.20	0.41
1:q:733:ARG:HG2	1:q:734:ASN:O	2.20	0.41
1:r:379:THR:HG22	1:r:380:LEU:N	2.35	0.41
1:s:710:VAL:HG13	1:s:713:THR:HB	2.01	0.41
1:t:530:GLU:O	1:t:532:LYS:N	2.53	0.41
1:t:568:THR:OG1	1:t:569:ASN:N	2.54	0.41
1:u:239:VAL:HG13	1:u:684:TRP:HB2	2.02	0.41
1:u:336:LEU:HD13	1:u:336:LEU:HA	1.91	0.41
1:w:272:TYR:HB2	1:w:378:LEU:HD22	2.02	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:w:553:ASP:OD1	1:y:461:GLN:HG2	2.20	0.41
1:y:379:THR:HG22	1:y:380:LEU:N	2.35	0.41
1:y:585:ARG:N	1:y:588:ARG:HB3	2.35	0.41
1:z:541:ILE:HD13	1:2:462:PHE:HE1	1.83	0.41
1:z:582:ASN:HB2	1:z:588:ARG:NE	2.34	0.41
1:z:733:ARG:HG2	1:z:734:ASN:O	2.20	0.41
1:1:446:SER:OG	1:1:447:ARG:N	2.52	0.41
1:1:518:ASN:O	1:1:519:PRO:C	2.61	0.41
1:1:568:THR:OG1	1:1:569:ASN:N	2.54	0.41
1:2:252:TYR:CE1	1:2:374:GLN:HB2	2.55	0.41
1:2:301:ASN:O	1:2:731:LEU:HD11	2.19	0.41
1:4:421:HIS:HB2	1:4:637:PHE:HE1	1.85	0.41
1:5:432:ARG:NH2	1:6:269:ASP:O	2.52	0.41
1:5:654:PRO:HB3	1:5:666:PHE:CE2	2.54	0.41
1:6:252:TYR:CE1	1:6:374:GLN:HB2	2.55	0.41
1:6:459:ARG:HH12	1:7:492:SER:H	1.67	0.41
1:7:421:HIS:HB2	1:7:637:PHE:HE1	1.85	0.41
1:7:563:GLU:OE1	1:7:563:GLU:N	2.51	0.41
1:B:379:THR:HG22	1:B:380:LEU:N	2.35	0.41
1:B:530:GLU:O	1:B:532:LYS:N	2.53	0.41
1:B:544:LYS:O	1:B:547:SER:OG	2.30	0.41
1:B:568:THR:OG1	1:B:569:ASN:N	2.54	0.41
1:C:252:TYR:CE1	1:C:374:GLN:HB2	2.55	0.41
1:C:476:ASN:O	1:b:633:LEU:HB2	2.19	0.41
1:C:530:GLU:C	1:C:532:LYS:N	2.77	0.41
1:D:585:ARG:N	1:D:588:ARG:HB3	2.35	0.41
1:D:699:GLN:HB2	1:M:701:THR:HG1	1.85	0.41
1:H:252:TYR:CE1	1:H:374:GLN:HB2	2.55	0.41
1:I:379:THR:HG22	1:I:380:LEU:N	2.35	0.41
1:J:272:TYR:HB2	1:J:378:LEU:HD22	2.02	0.41
1:J:309:LYS:HD2	1:J:309:LYS:HA	1.74	0.41
1:J:371:MET:CE	1:a:661:PHE:HA	2.38	0.41
1:L:252:TYR:CE1	1:L:374:GLN:HB2	2.55	0.41
1:L:530:GLU:C	1:L:532:LYS:N	2.77	0.41
1:N:259:GLN:HA	1:N:275:TYR:HD1	1.86	0.41
1:Q:379:THR:HG22	1:Q:380:LEU:N	2.35	0.41
1:Q:530:GLU:O	1:Q:532:LYS:N	2.53	0.41
1:R:379:THR:HG22	1:R:380:LEU:N	2.35	0.41
1:R:530:GLU:O	1:R:532:LYS:N	2.53	0.41
1:R:568:THR:OG1	1:R:569:ASN:N	2.54	0.41
1:S:421:HIS:HB2	1:S:637:PHE:HE1	1.85	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:T:432:ARG:NH2	1:d:269:ASP:O	2.53	0.41
1:T:476:ASN:O	1:d:633:LEU:HB2	2.19	0.41
1:T:530:GLU:O	1:T:532:LYS:N	2.53	0.41
1:T:563:GLU:OE1	1:T:563:GLU:N	2.51	0.41
1:T:710:VAL:HG13	1:T:713:THR:HB	2.01	0.41
1:V:379:THR:HG22	1:V:380:LEU:N	2.35	0.41
1:V:585:ARG:N	1:V:588:ARG:HB3	2.35	0.41
1:Y:301:ASN:O	1:Y:731:LEU:HD11	2.19	0.41
1:Y:568:THR:OG1	1:Y:569:ASN:N	2.54	0.41
1:Z:259:GLN:HA	1:Z:275:TYR:CD1	2.56	0.41
1:Z:710:VAL:HG13	1:Z:713:THR:HB	2.01	0.41
1:a:259:GLN:HA	1:a:275:TYR:HD1	1.86	0.41
1:b:568:THR:OG1	1:b:569:ASN:N	2.54	0.41
1:c:272:TYR:HB2	1:c:378:LEU:HD22	2.02	0.41
1:d:421:HIS:HB2	1:d:637:PHE:HE1	1.85	0.41
1:d:733:ARG:HG2	1:d:734:ASN:O	2.20	0.41
1:f:272:TYR:HB2	1:f:378:LEU:HD22	2.02	0.41
1:f:654:PRO:HB3	1:f:666:PHE:CE2	2.54	0.41
1:i:301:ASN:O	1:i:731:LEU:HD11	2.19	0.41
1:k:301:ASN:O	1:k:731:LEU:HD11	2.19	0.41
1:k:585:ARG:N	1:k:588:ARG:HB3	2.35	0.41
1:m:461:GLN:HG2	1:n:553:ASP:OD1	2.20	0.41
1:m:701:THR:HG1	1:r:699:GLN:HB2	1.84	0.41
1:o:489:SER:C	1:o:495:ASN:HD21	2.26	0.41
1:o:701:THR:HG1	1:6:699:GLN:HB2	1.85	0.41
1:p:693:ARG:NE	1:p:695:ASN:OD1	2.41	0.41
1:r:252:TYR:CE1	1:r:374:GLN:HB2	2.55	0.41
1:r:483:TYR:OH	1:r:506:THR:OG1	2.27	0.41
1:r:568:THR:OG1	1:r:569:ASN:N	2.54	0.41
1:s:252:TYR:CE1	1:s:374:GLN:HB2	2.55	0.41
1:s:365:PHE:HA	1:s:366:PRO:HD3	1.94	0.41
1:s:395:LEU:HD23	1:s:395:LEU:HA	1.83	0.41
1:u:432:ARG:NH2	1:v:269:ASP:O	2.53	0.41
1:u:483:TYR:OH	1:u:506:THR:OG1	2.27	0.41
1:u:518:ASN:O	1:u:519:PRO:C	2.61	0.41
1:w:269:ASP:O	1:y:432:ARG:NH2	2.53	0.41
1:w:568:THR:OG1	1:w:569:ASN:N	2.54	0.41
1:x:379:THR:HG22	1:x:380:LEU:N	2.35	0.41
1:2:530:GLU:C	1:2:532:LYS:N	2.77	0.41
1:6:733:ARG:HG2	1:6:734:ASN:O	2.20	0.41
1:7:489:SER:C	1:7:495:ASN:HD21	2.26	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:8:395:LEU:HD23	1:8:395:LEU:HA	1.83	0.41
1:A:653:VAL:HA	1:A:654:PRO:HD3	1.93	0.41
1:E:568:THR:OG1	1:E:569:ASN:N	2.54	0.41
1:F:403:LEU:HA	1:F:403:LEU:HD23	1.84	0.41
1:G:403:LEU:HD23	1:G:403:LEU:HA	1.84	0.41
1:G:646:ILE:C	1:G:647:LEU:HD12	2.46	0.41
1:G:654:PRO:HB3	1:G:666:PHE:CE2	2.54	0.41
1:H:365:PHE:HA	1:H:366:PRO:HD3	1.94	0.41
1:H:661:PHE:HA	1:Z:371:MET:CE	2.38	0.41
1:J:294:ARG:HH12	1:J:298:ARG:HB2	1.83	0.41
1:K:272:TYR:HB2	1:K:378:LEU:HD22	2.02	0.41
1:K:301:ASN:O	1:K:731:LEU:HD11	2.19	0.41
1:K:585:ARG:N	1:K:588:ARG:HB3	2.35	0.41
1:L:259:GLN:HA	1:L:275:TYR:CD1	2.56	0.41
1:M:272:TYR:HB2	1:M:378:LEU:HD22	2.02	0.41
1:N:733:ARG:HG2	1:N:734:ASN:O	2.20	0.41
1:O:459:ARG:HH12	1:m:492:SER:H	1.68	0.41
1:P:259:GLN:HA	1:P:275:TYR:CD1	2.56	0.41
1:R:239:VAL:HG13	1:R:684:TRP:HB2	2.02	0.41
1:R:421:HIS:HB2	1:R:637:PHE:HE1	1.85	0.41
1:T:259:GLN:HA	1:T:275:TYR:CD1	2.56	0.41
1:W:395:LEU:HD23	1:W:395:LEU:HA	1.83	0.41
1:X:446:SER:OG	1:X:447:ARG:N	2.52	0.41
1:X:646:ILE:C	1:X:647:LEU:HD12	2.46	0.41
1:Z:252:TYR:CE1	1:Z:374:GLN:HB2	2.55	0.41
1:a:462:PHE:HE1	1:8:541:ILE:HD13	1.85	0.41
1:b:372:VAL:HA	1:b:373:PRO:HD3	1.92	0.41
1:c:693:ARG:NE	1:c:695:ASN:OD1	2.41	0.41
1:c:733:ARG:HG2	1:c:734:ASN:O	2.20	0.41
1:d:252:TYR:CE1	1:d:374:GLN:HB2	2.55	0.41
1:d:657:PRO:HA	1:d:666:PHE:HE1	1.86	0.41
1:e:259:GLN:HA	1:e:275:TYR:CD1	2.56	0.41
1:e:379:THR:HG22	1:e:380:LEU:N	2.35	0.41
1:g:568:THR:OG1	1:g:569:ASN:N	2.54	0.41
1:g:733:ARG:HG2	1:g:734:ASN:O	2.20	0.41
1:h:379:THR:HG22	1:h:380:LEU:N	2.35	0.41
1:i:553:ASP:OD1	1:k:461:GLN:HG2	2.20	0.41
1:j:272:TYR:HB2	1:j:378:LEU:HD22	2.02	0.41
1:j:654:PRO:HB3	1:j:666:PHE:CE2	2.54	0.41
1:k:379:THR:HG22	1:k:380:LEU:N	2.35	0.41
1:l:379:THR:HG22	1:l:380:LEU:N	2.35	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:l:646:ILE:C	1:l:647:LEU:HD12	2.46	0.41
1:m:259:GLN:HA	1:m:275:TYR:CD1	2.56	0.41
1:m:530:GLU:O	1:m:532:LYS:N	2.53	0.41
1:m:646:ILE:C	1:m:647:LEU:HD12	2.46	0.41
1:p:239:VAL:HG13	1:p:684:TRP:HB2	2.02	0.41
1:p:654:PRO:HB3	1:p:666:PHE:CE2	2.54	0.41
1:p:733:ARG:HG2	1:p:734:ASN:O	2.20	0.41
1:q:343:PHE:HB3	1:q:400:SER:CA	2.46	0.41
1:r:259:GLN:HA	1:r:275:TYR:HD1	1.86	0.41
1:r:301:ASN:O	1:r:731:LEU:HD11	2.19	0.41
1:s:259:GLN:HA	1:s:275:TYR:HD1	1.86	0.41
1:t:269:ASP:O	1:v:432:ARG:NH2	2.53	0.41
1:t:379:THR:HG22	1:t:380:LEU:N	2.35	0.41
1:t:489:SER:C	1:t:495:ASN:HD21	2.26	0.41
1:v:701:THR:HG1	1:y:699:GLN:HB2	1.85	0.41
1:w:259:GLN:HA	1:w:275:TYR:CD1	2.56	0.41
1:z:239:VAL:HG13	1:z:684:TRP:HB2	2.02	0.41
1:1:259:GLN:HA	1:1:275:TYR:CD1	2.56	0.41
1:1:421:HIS:HB2	1:1:637:PHE:HE1	1.85	0.41
1:1:530:GLU:O	1:1:532:LYS:N	2.53	0.41
1:1:710:VAL:HG13	1:1:713:THR:HB	2.01	0.41
1:2:379:THR:HG22	1:2:380:LEU:N	2.35	0.41
1:2:657:PRO:HA	1:2:666:PHE:HE1	1.86	0.41
1:2:699:GLN:HB2	1:4:701:THR:HG1	1.84	0.41
1:3:646:ILE:C	1:3:647:LEU:HD12	2.46	0.41
1:4:563:GLU:N	1:4:563:GLU:OE1	2.51	0.41
1:4:646:ILE:C	1:4:647:LEU:HD12	2.46	0.41
1:5:379:THR:HG22	1:5:380:LEU:N	2.35	0.41
1:5:530:GLU:O	1:5:532:LYS:N	2.53	0.41
1:6:239:VAL:HG13	1:6:684:TRP:HB2	2.02	0.41
1:8:657:PRO:HA	1:8:666:PHE:HE1	1.86	0.41
1:A:461:GLN:HG2	1:G:553:ASP:OD1	2.21	0.41
1:A:657:PRO:HA	1:A:666:PHE:HE1	1.86	0.41
1:D:272:TYR:HB2	1:D:378:LEU:HD22	2.02	0.41
1:D:530:GLU:O	1:D:532:LYS:N	2.53	0.41
1:D:633:LEU:HB2	1:P:476:ASN:O	2.19	0.41
1:D:646:ILE:C	1:D:647:LEU:HD12	2.46	0.41
1:F:239:VAL:HG13	1:F:684:TRP:HB2	2.02	0.41
1:F:553:ASP:OD1	1:Q:461:GLN:HG2	2.21	0.41
1:F:654:PRO:HB3	1:F:666:PHE:CE2	2.54	0.41
1:F:733:ARG:HG2	1:F:734:ASN:O	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:461:GLN:HG2	1:I:553:ASP:OD1	2.21	0.41
1:G:657:PRO:HA	1:G:666:PHE:HE1	1.86	0.41
1:G:701:THR:HG1	1:H:699:GLN:HB2	1.83	0.41
1:G:733:ARG:HG2	1:G:734:ASN:O	2.20	0.41
1:H:259:GLN:HA	1:H:275:TYR:HD1	1.86	0.41
1:I:733:ARG:HG2	1:I:734:ASN:O	2.20	0.41
1:K:518:ASN:O	1:K:519:PRO:C	2.61	0.41
1:K:530:GLU:O	1:K:532:LYS:N	2.53	0.41
1:K:568:THR:OG1	1:K:569:ASN:N	2.54	0.41
1:K:646:ILE:C	1:K:647:LEU:HD12	2.46	0.41
1:L:239:VAL:HG13	1:L:684:TRP:HB2	2.02	0.41
1:O:646:ILE:C	1:O:647:LEU:HD12	2.46	0.41
1:P:568:THR:OG1	1:P:569:ASN:N	2.54	0.41
1:P:657:PRO:HA	1:P:666:PHE:HE1	1.86	0.41
1:R:646:ILE:C	1:R:647:LEU:HD12	2.46	0.41
1:S:336:LEU:HD13	1:S:336:LEU:HA	1.91	0.41
1:T:309:LYS:HD2	1:T:309:LYS:HA	1.74	0.41
1:T:421:HIS:HB2	1:T:637:PHE:HE1	1.85	0.41
1:U:403:LEU:HD23	1:U:403:LEU:HA	1.84	0.41
1:Y:259:GLN:HA	1:Y:275:TYR:HD1	1.86	0.41
1:Z:530:GLU:O	1:Z:532:LYS:N	2.53	0.41
1:Z:646:ILE:C	1:Z:647:LEU:HD12	2.46	0.41
1:b:646:ILE:C	1:b:647:LEU:HD12	2.46	0.41
1:c:379:THR:HG22	1:c:380:LEU:N	2.35	0.41
1:d:654:PRO:HB3	1:d:666:PHE:CE2	2.54	0.41
1:e:657:PRO:HA	1:e:666:PHE:HE1	1.86	0.41
1:f:379:THR:HG22	1:f:380:LEU:N	2.35	0.41
1:f:568:THR:OG1	1:f:569:ASN:N	2.54	0.41
1:g:272:TYR:HB2	1:g:378:LEU:HD22	2.02	0.41
1:g:365:PHE:HA	1:g:366:PRO:HD3	1.94	0.41
1:i:272:TYR:HB2	1:i:378:LEU:HD22	2.03	0.41
1:i:568:THR:OG1	1:i:569:ASN:N	2.54	0.41
1:k:518:ASN:O	1:k:519:PRO:C	2.61	0.41
1:k:568:THR:OG1	1:k:569:ASN:N	2.54	0.41
1:l:239:VAL:HG13	1:l:684:TRP:HB2	2.02	0.41
1:l:259:GLN:HA	1:l:275:TYR:CD1	2.56	0.41
1:m:379:THR:HG22	1:m:380:LEU:N	2.35	0.41
1:m:733:ARG:HG2	1:m:734:ASN:O	2.20	0.41
1:n:646:ILE:C	1:n:647:LEU:HD12	2.46	0.41
1:o:461:GLN:HG2	1:p:553:ASP:OD1	2.21	0.41
1:o:657:PRO:HA	1:o:666:PHE:HE1	1.86	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:p:646:ILE:C	1:p:647:LEU:HD12	2.46	0.41
1:s:343:PHE:HB3	1:s:400:SER:CA	2.46	0.41
1:t:646:ILE:C	1:t:647:LEU:HD12	2.46	0.41
1:u:272:TYR:HB2	1:u:378:LEU:HD22	2.02	0.41
1:v:395:LEU:HD23	1:v:395:LEU:HA	1.82	0.41
1:v:518:ASN:O	1:v:519:PRO:C	2.61	0.41
1:w:657:PRO:HA	1:w:666:PHE:HE1	1.86	0.41
1:x:395:LEU:HA	1:x:395:LEU:HD23	1.83	0.41
1:x:646:ILE:C	1:x:647:LEU:HD12	2.46	0.41
1:y:336:LEU:HD13	1:y:336:LEU:HA	1.91	0.41
1:y:446:SER:OG	1:y:447:ARG:N	2.52	0.41
1:z:259:GLN:HA	1:z:275:TYR:CD1	2.56	0.41
1:z:646:ILE:C	1:z:647:LEU:HD12	2.46	0.41
1:2:309:LYS:HA	1:2:309:LYS:HD2	1.74	0.41
1:2:421:HIS:HB2	1:2:637:PHE:HE1	1.85	0.41
1:7:568:THR:OG1	1:7:569:ASN:N	2.54	0.41
1:B:343:PHE:HB3	1:B:400:SER:CA	2.46	0.41
1:B:372:VAL:HA	1:B:373:PRO:HD3	1.92	0.41
1:B:461:GLN:HG2	1:J:553:ASP:OD1	2.21	0.41
1:B:646:ILE:C	1:B:647:LEU:HD12	2.46	0.41
1:B:699:GLN:HB2	1:I:701:THR:HG1	1.85	0.41
1:C:239:VAL:HG13	1:C:684:TRP:HB2	2.02	0.41
1:C:259:GLN:HA	1:C:275:TYR:CD1	2.56	0.41
1:C:461:GLN:HG2	1:b:553:ASP:OD1	2.20	0.41
1:D:492:SER:H	1:P:459:ARG:HH12	1.67	0.41
1:D:568:THR:OG1	1:D:569:ASN:N	2.54	0.41
1:D:654:PRO:HB3	1:D:666:PHE:CE2	2.54	0.41
1:E:259:GLN:HA	1:E:275:TYR:CD1	2.56	0.41
1:G:259:GLN:HA	1:G:275:TYR:CD1	2.56	0.41
1:G:693:ARG:NE	1:G:695:ASN:OD1	2.41	0.41
1:H:343:PHE:HB3	1:H:400:SER:CA	2.46	0.41
1:H:421:HIS:HB2	1:H:637:PHE:HE1	1.85	0.41
1:H:646:ILE:C	1:H:647:LEU:HD12	2.46	0.41
1:I:259:GLN:HA	1:I:275:TYR:CD1	2.56	0.41
1:J:343:PHE:HB3	1:J:400:SER:CA	2.46	0.41
1:L:646:ILE:C	1:L:647:LEU:HD12	2.46	0.41
1:N:395:LEU:HA	1:N:395:LEU:HD23	1.83	0.41
1:N:646:ILE:C	1:N:647:LEU:HD12	2.46	0.41
1:O:653:VAL:HA	1:O:654:PRO:HD3	1.93	0.41
1:P:733:ARG:HG2	1:P:734:ASN:O	2.20	0.41
1:Q:272:TYR:HB2	1:Q:378:LEU:HD22	2.02	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:R:489:SER:C	1:R:495:ASN:HD21	2.26	0.41
1:S:272:TYR:HB2	1:S:378:LEU:HD22	2.02	0.41
1:T:269:ASP:O	1:l:432:ARG:NH2	2.54	0.41
1:U:272:TYR:HB2	1:U:378:LEU:HD22	2.02	0.41
1:V:446:SER:OG	1:V:447:ARG:N	2.52	0.41
1:W:252:TYR:CE1	1:W:374:GLN:HB2	2.54	0.41
1:W:343:PHE:HB3	1:W:400:SER:CA	2.46	0.41
1:W:446:SER:OG	1:W:447:ARG:N	2.52	0.41
1:X:259:GLN:HA	1:X:275:TYR:CD1	2.56	0.41
1:X:259:GLN:HA	1:X:275:TYR:HD1	1.86	0.41
1:X:657:PRO:HA	1:X:666:PHE:HE1	1.86	0.41
1:Z:379:THR:HG22	1:Z:380:LEU:N	2.35	0.41
1:Z:654:PRO:HB3	1:Z:666:PHE:CE2	2.54	0.41
1:Z:733:ARG:HG2	1:Z:734:ASN:O	2.20	0.41
1:a:372:VAL:HA	1:a:373:PRO:HD3	1.92	0.41
1:a:733:ARG:HG2	1:a:734:ASN:O	2.20	0.41
1:c:568:THR:OG1	1:c:569:ASN:N	2.54	0.41
1:d:379:THR:HG22	1:d:380:LEU:N	2.35	0.41
1:d:530:GLU:C	1:d:532:LYS:N	2.77	0.41
1:e:239:VAL:HG13	1:e:684:TRP:HB2	2.02	0.41
1:f:646:ILE:C	1:f:647:LEU:HD12	2.46	0.41
1:h:568:THR:OG1	1:h:569:ASN:N	2.54	0.41
1:i:733:ARG:HG2	1:i:734:ASN:O	2.20	0.41
1:j:379:THR:HG22	1:j:380:LEU:N	2.35	0.41
1:j:568:THR:OG1	1:j:569:ASN:N	2.54	0.41
1:j:646:ILE:C	1:j:647:LEU:HD12	2.46	0.41
1:j:657:PRO:HA	1:j:666:PHE:HE1	1.86	0.41
1:m:654:PRO:HB3	1:m:666:PHE:CE2	2.54	0.41
1:n:259:GLN:HA	1:n:275:TYR:CD1	2.56	0.41
1:n:272:TYR:HB2	1:n:378:LEU:HD22	2.02	0.41
1:n:563:GLU:OE1	1:n:563:GLU:N	2.51	0.41
1:o:343:PHE:HB3	1:o:400:SER:CA	2.46	0.41
1:p:259:GLN:HA	1:p:275:TYR:CD1	2.56	0.41
1:q:252:TYR:CE1	1:q:374:GLN:HB2	2.55	0.41
1:q:646:ILE:C	1:q:647:LEU:HD12	2.46	0.41
1:r:461:GLN:HG2	1:s:553:ASP:OD1	2.20	0.41
1:s:421:HIS:HB2	1:s:637:PHE:HE1	1.85	0.41
1:s:646:ILE:C	1:s:647:LEU:HD12	2.46	0.41
1:t:553:ASP:OD1	1:v:461:GLN:HG2	2.20	0.41
1:v:259:GLN:HA	1:v:275:TYR:HD1	1.86	0.41
1:w:239:VAL:HG13	1:w:684:TRP:HB2	2.02	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:w:379:THR:HG22	1:w:380:LEU:N	2.35	0.41
1:x:259:GLN:HA	1:x:275:TYR:CD1	2.56	0.41
1:z:379:THR:HG22	1:z:380:LEU:N	2.35	0.41
1:1:657:PRO:HA	1:1:666:PHE:HE1	1.86	0.41
1:2:646:ILE:C	1:2:647:LEU:HD12	2.46	0.41
1:2:654:PRO:HB3	1:2:666:PHE:CE2	2.54	0.41
1:5:239:VAL:HG13	1:5:684:TRP:HB2	2.02	0.41
1:5:544:LYS:O	1:5:547:SER:OG	2.30	0.41
1:7:259:GLN:HA	1:7:275:TYR:CD1	2.56	0.41
1:7:733:ARG:HG2	1:7:734:ASN:O	2.20	0.41
1:8:259:GLN:HA	1:8:275:TYR:CD1	2.56	0.41
1:8:568:THR:OG1	1:8:569:ASN:N	2.54	0.41
1:8:733:ARG:HG2	1:8:734:ASN:O	2.20	0.41
1:A:633:LEU:HB2	1:I:476:ASN:O	2.20	0.41
1:B:661:PHE:HA	1:C:371:MET:CE	2.37	0.41
1:D:259:GLN:HA	1:D:275:TYR:HD1	1.86	0.41
1:D:461:GLN:HG2	1:N:553:ASP:OD1	2.21	0.41
1:E:379:THR:HG22	1:E:380:LEU:N	2.35	0.41
1:E:646:ILE:C	1:E:647:LEU:HD12	2.46	0.41
1:G:336:LEU:HD13	1:G:336:LEU:HA	1.91	0.41
1:G:568:THR:OG1	1:G:569:ASN:N	2.54	0.41
1:H:379:THR:HG22	1:H:380:LEU:N	2.35	0.41
1:H:461:GLN:HG2	1:W:553:ASP:OD1	2.20	0.41
1:I:568:THR:OG1	1:I:569:ASN:N	2.54	0.41
1:J:657:PRO:HA	1:J:666:PHE:HE1	1.86	0.41
1:K:259:GLN:HA	1:K:275:TYR:HD1	1.86	0.41
1:K:459:ARG:HH12	1:a:492:SER:H	1.67	0.41
1:K:654:PRO:HB3	1:K:666:PHE:CE2	2.54	0.41
1:M:259:GLN:HA	1:M:275:TYR:CD1	2.56	0.41
1:M:294:ARG:HH12	1:M:298:ARG:HB2	1.83	0.41
1:O:530:GLU:O	1:O:532:LYS:N	2.53	0.41
1:Q:239:VAL:HG13	1:Q:684:TRP:HB2	2.02	0.41
1:R:259:GLN:HA	1:R:275:TYR:CD1	2.56	0.41
1:R:657:PRO:HA	1:R:666:PHE:HE1	1.86	0.41
1:S:395:LEU:HD23	1:S:395:LEU:HA	1.83	0.41
1:T:259:GLN:HA	1:T:275:TYR:HD1	1.86	0.41
1:T:553:ASP:OD1	1:l:461:GLN:HG2	2.20	0.41
1:T:657:PRO:HA	1:T:666:PHE:HE1	1.86	0.41
1:U:259:GLN:HA	1:U:275:TYR:HD1	1.86	0.41
1:V:657:PRO:HA	1:V:666:PHE:HE1	1.86	0.41
1:W:646:ILE:C	1:W:647:LEU:HD12	2.46	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Z:492:SER:H	1:3:459:ARG:HH12	1.68	0.41
1:a:272:TYR:HB2	1:a:378:LEU:HD22	2.02	0.41
1:a:646:ILE:C	1:a:647:LEU:HD12	2.46	0.41
1:b:544:LYS:O	1:b:547:SER:OG	2.30	0.41
1:b:733:ARG:HG2	1:b:734:ASN:O	2.20	0.41
1:c:259:GLN:HA	1:c:275:TYR:CD1	2.56	0.41
1:d:646:ILE:C	1:d:647:LEU:HD12	2.46	0.41
1:d:699:GLN:HB2	1:n:701:THR:HG1	1.84	0.41
1:f:239:VAL:HG13	1:f:684:TRP:HB2	2.02	0.41
1:f:459:ARG:HH12	1:h:492:SER:H	1.68	0.41
1:f:657:PRO:HA	1:f:666:PHE:HE1	1.86	0.41
1:h:518:ASN:O	1:h:519:PRO:C	2.61	0.41
1:h:733:ARG:HG2	1:h:734:ASN:O	2.20	0.41
1:i:365:PHE:HA	1:i:366:PRO:HD3	1.94	0.41
1:k:646:ILE:C	1:k:647:LEU:HD12	2.46	0.41
1:m:693:ARG:NE	1:m:695:ASN:OD1	2.41	0.41
1:o:259:GLN:HA	1:o:275:TYR:HD1	1.86	0.41
1:p:657:PRO:HA	1:p:666:PHE:HE1	1.86	0.41
1:q:272:TYR:HB2	1:q:378:LEU:HD22	2.02	0.41
1:q:699:GLN:HB2	1:x:701:THR:HG1	1.85	0.41
1:t:239:VAL:HG13	1:t:684:TRP:HB2	2.02	0.41
1:t:509:HIS:CB	1:t:514:ASP:HA	2.45	0.41
1:t:657:PRO:HA	1:t:666:PHE:HE1	1.86	0.41
1:v:259:GLN:HA	1:v:275:TYR:CD1	2.56	0.41
1:v:272:TYR:HB2	1:v:378:LEU:HD22	2.02	0.41
1:x:259:GLN:HA	1:x:275:TYR:HD1	1.86	0.41
1:x:446:SER:OG	1:x:447:ARG:N	2.52	0.41
1:x:657:PRO:HA	1:x:666:PHE:HE1	1.86	0.41
1:y:510:LEU:HD23	1:y:510:LEU:HA	1.95	0.41
1:y:544:LYS:O	1:y:547:SER:OG	2.30	0.41
1:1:259:GLN:HA	1:1:275:TYR:HD1	1.86	0.41
1:3:239:VAL:HG13	1:3:684:TRP:HB2	2.02	0.41
1:3:653:VAL:HA	1:3:654:PRO:HD3	1.93	0.41
1:4:259:GLN:HA	1:4:275:TYR:CD1	2.56	0.41
1:5:568:THR:OG1	1:5:569:ASN:N	2.54	0.41
1:6:654:PRO:HB3	1:6:666:PHE:CE2	2.54	0.41
1:A:259:GLN:HA	1:A:275:TYR:CD1	2.56	0.41
1:A:259:GLN:HA	1:A:275:TYR:HD1	1.86	0.41
1:A:343:PHE:HB3	1:A:400:SER:CA	2.46	0.41
1:B:432:ARG:NH2	1:J:269:ASP:O	2.53	0.41
1:B:733:ARG:HG2	1:B:734:ASN:O	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:646:ILE:C	1:C:647:LEU:HD12	2.46	0.41
1:D:259:GLN:HA	1:D:275:TYR:CD1	2.56	0.41
1:D:693:ARG:NE	1:D:695:ASN:OD1	2.41	0.41
1:E:699:GLN:HB2	1:P:701:THR:HG1	1.84	0.41
1:E:733:ARG:HG2	1:E:734:ASN:O	2.20	0.41
1:F:356:SER:HB2	1:F:358:HIS:NE2	2.36	0.41
1:F:568:THR:OG1	1:F:569:ASN:N	2.54	0.41
1:F:585:ARG:N	1:F:588:ARG:HB3	2.35	0.41
1:H:272:TYR:HB2	1:H:378:LEU:HD22	2.02	0.41
1:H:553:ASP:OD1	1:Y:461:GLN:HG2	2.21	0.41
1:J:259:GLN:HA	1:J:275:TYR:CD1	2.56	0.41
1:J:518:ASN:O	1:J:519:PRO:C	2.61	0.41
1:K:259:GLN:HA	1:K:275:TYR:CD1	2.56	0.41
1:L:371:MET:CE	1:b:661:PHE:HA	2.38	0.41
1:M:568:THR:OG1	1:M:569:ASN:N	2.54	0.41
1:M:657:PRO:HA	1:M:666:PHE:HE1	1.86	0.41
1:N:272:TYR:HB2	1:N:378:LEU:HD22	2.02	0.41
1:O:421:HIS:HB2	1:O:637:PHE:HE1	1.85	0.41
1:Q:568:THR:OG1	1:Q:569:ASN:N	2.54	0.41
1:R:585:ARG:N	1:R:588:ARG:HB3	2.35	0.41
1:S:371:MET:CE	1:d:661:PHE:HA	2.38	0.41
1:S:432:ARG:NH2	1:U:269:ASP:O	2.53	0.41
1:S:646:ILE:C	1:S:647:LEU:HD12	2.46	0.41
1:T:395:LEU:HA	1:T:395:LEU:HD23	1.83	0.41
1:U:259:GLN:HA	1:U:275:TYR:CD1	2.56	0.41
1:V:403:LEU:HD23	1:V:403:LEU:HA	1.84	0.41
1:W:272:TYR:HB2	1:W:378:LEU:HD22	2.02	0.41
1:Y:646:ILE:C	1:Y:647:LEU:HD12	2.46	0.41
1:Z:461:GLN:HG2	1:4:553:ASP:OD1	2.21	0.41
1:a:365:PHE:HA	1:a:366:PRO:HD3	1.94	0.41
1:c:259:GLN:HA	1:c:275:TYR:HD1	1.86	0.41
1:d:272:TYR:HB2	1:d:378:LEU:HD22	2.02	0.41
1:g:585:ARG:HG2	1:g:586:GLY:N	2.36	0.41
1:h:259:GLN:HA	1:h:275:TYR:HD1	1.86	0.41
1:h:563:GLU:OE1	1:h:563:GLU:N	2.51	0.41
1:h:646:ILE:C	1:h:647:LEU:HD12	2.46	0.41
1:i:530:GLU:O	1:i:532:LYS:N	2.53	0.41
1:j:461:GLN:HG2	1:k:553:ASP:OD1	2.21	0.41
1:k:259:GLN:HA	1:k:275:TYR:HD1	1.86	0.41
1:k:309:LYS:HA	1:k:309:LYS:HD2	1.74	0.41
1:l:356:SER:HB2	1:l:358:HIS:NE2	2.36	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:p:568:THR:OG1	1:p:569:ASN:N	2.54	0.41
1:s:657:PRO:HA	1:s:666:PHE:HE1	1.86	0.41
1:t:259:GLN:HA	1:t:275:TYR:CD1	2.56	0.41
1:t:304:TRP:O	1:t:423:SER:OG	2.25	0.41
1:t:489:SER:O	1:t:495:ASN:ND2	2.51	0.41
1:v:421:HIS:HB2	1:v:637:PHE:HE1	1.85	0.41
1:v:661:PHE:HA	1:1:371:MET:CE	2.40	0.41
1:w:585:ARG:HG2	1:w:586:GLY:N	2.36	0.41
1:3:259:GLN:HA	1:3:275:TYR:CD1	2.56	0.41
1:3:421:HIS:HB2	1:3:637:PHE:HE1	1.85	0.41
1:3:530:GLU:O	1:3:532:LYS:N	2.53	0.41
1:3:568:THR:OG1	1:3:569:ASN:N	2.54	0.41
1:4:272:TYR:HB2	1:4:378:LEU:HD22	2.03	0.41
1:5:272:TYR:HB2	1:5:378:LEU:HD22	2.02	0.41
1:6:356:SER:HB2	1:6:358:HIS:NE2	2.36	0.41
1:6:568:THR:OG1	1:6:569:ASN:N	2.54	0.41
1:7:646:ILE:C	1:7:647:LEU:HD12	2.46	0.41
1:7:657:PRO:HA	1:7:666:PHE:HE1	1.86	0.41
1:A:272:TYR:HB2	1:A:378:LEU:HD22	2.02	0.41
1:A:356:SER:HB2	1:A:358:HIS:NE2	2.36	0.41
1:A:568:THR:OG1	1:A:569:ASN:N	2.54	0.41
1:A:585:ARG:HG2	1:A:586:GLY:N	2.36	0.41
1:B:272:TYR:HB2	1:B:378:LEU:HD22	2.03	0.41
1:B:553:ASP:OD1	1:L:461:GLN:HG2	2.21	0.41
1:C:553:ASP:OD1	1:M:461:GLN:HG2	2.20	0.41
1:E:356:SER:HB2	1:E:358:HIS:NE2	2.36	0.41
1:E:657:PRO:HA	1:E:666:PHE:HE1	1.86	0.41
1:F:259:GLN:HA	1:F:275:TYR:HD1	1.86	0.41
1:F:272:TYR:HB2	1:F:378:LEU:HD22	2.02	0.41
1:G:356:SER:HB2	1:G:358:HIS:NE2	2.36	0.41
1:G:378:LEU:HD23	1:G:378:LEU:HA	1.93	0.41
1:H:356:SER:HB2	1:H:358:HIS:NE2	2.36	0.41
1:H:371:MET:CE	1:I:661:PHE:HA	2.39	0.41
1:H:657:PRO:HA	1:H:666:PHE:HE1	1.86	0.41
1:I:239:VAL:HG13	1:I:684:TRP:HB2	2.02	0.41
1:I:259:GLN:HA	1:I:275:TYR:HD1	1.86	0.41
1:I:336:LEU:HD13	1:I:336:LEU:HA	1.91	0.41
1:I:693:ARG:NE	1:I:695:ASN:OD1	2.41	0.41
1:J:259:GLN:HA	1:J:275:TYR:HD1	1.86	0.41
1:J:461:GLN:HG2	1:L:553:ASP:OD1	2.20	0.41
1:J:568:THR:OG1	1:J:569:ASN:N	2.54	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:654:PRO:HB3	1:J:666:PHE:CE2	2.54	0.41
1:M:259:GLN:HA	1:M:275:TYR:HD1	1.86	0.41
1:M:269:ASP:O	1:b:432:ARG:NH2	2.54	0.41
1:M:343:PHE:HB3	1:M:400:SER:CA	2.46	0.41
1:M:553:ASP:OD1	1:b:461:GLN:HG2	2.21	0.41
1:N:252:TYR:CE1	1:N:374:GLN:HB2	2.55	0.41
1:O:239:VAL:HG13	1:O:684:TRP:HB2	2.02	0.41
1:O:259:GLN:HA	1:O:275:TYR:CD1	2.56	0.41
1:O:259:GLN:HA	1:O:275:TYR:HD1	1.86	0.41
1:O:272:TYR:HB2	1:O:378:LEU:HD22	2.02	0.41
1:O:365:PHE:HA	1:O:366:PRO:HD3	1.94	0.41
1:O:568:THR:OG1	1:O:569:ASN:N	2.54	0.41
1:P:259:GLN:HA	1:P:275:TYR:HD1	1.86	0.41
1:P:509:HIS:CB	1:P:514:ASP:HA	2.45	0.41
1:P:585:ARG:HG2	1:P:586:GLY:N	2.36	0.41
1:R:489:SER:O	1:R:495:ASN:ND2	2.51	0.41
1:R:553:ASP:OD1	1:U:461:GLN:HG2	2.20	0.41
1:S:461:GLN:HG2	1:U:553:ASP:OD1	2.21	0.41
1:S:585:ARG:N	1:S:588:ARG:HB3	2.35	0.41
1:T:541:ILE:HD13	1:l:462:PHE:CE1	2.56	0.41
1:U:395:LEU:HD23	1:U:395:LEU:HA	1.82	0.41
1:V:421:HIS:HB2	1:V:637:PHE:HE1	1.85	0.41
1:V:585:ARG:HG2	1:V:586:GLY:N	2.36	0.41
1:W:421:HIS:HB2	1:W:637:PHE:HE1	1.85	0.41
1:W:568:THR:OG1	1:W:569:ASN:N	2.54	0.41
1:Y:421:HIS:HB2	1:Y:637:PHE:HE1	1.85	0.41
1:Z:259:GLN:HA	1:Z:275:TYR:HD1	1.86	0.41
1:Z:272:TYR:HB2	1:Z:378:LEU:HD22	2.02	0.41
1:a:395:LEU:HA	1:a:395:LEU:HD23	1.82	0.41
1:a:654:PRO:HB3	1:a:666:PHE:CE2	2.54	0.41
1:b:272:TYR:HB2	1:b:378:LEU:HD22	2.03	0.41
1:b:343:PHE:HB3	1:b:400:SER:CA	2.46	0.41
1:b:657:PRO:HA	1:b:666:PHE:HE1	1.86	0.41
1:c:239:VAL:HG13	1:c:684:TRP:HB2	2.02	0.41
1:c:432:ARG:NH2	1:o:269:ASP:O	2.53	0.41
1:c:654:PRO:HB3	1:c:666:PHE:CE2	2.54	0.41
1:e:252:TYR:OH	1:e:372:VAL:O	2.39	0.41
1:e:336:LEU:HD13	1:e:336:LEU:HA	1.91	0.41
1:e:585:ARG:HG2	1:e:586:GLY:N	2.36	0.41
1:f:259:GLN:HA	1:f:275:TYR:HD1	1.86	0.41
1:f:585:ARG:HG2	1:f:586:GLY:N	2.36	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:g:259:GLN:HA	1:g:275:TYR:CD1	2.56	0.41
1:g:259:GLN:HA	1:g:275:TYR:HD1	1.86	0.41
1:g:530:GLU:O	1:g:532:LYS:N	2.53	0.41
1:h:356:SER:HB2	1:h:358:HIS:NE2	2.36	0.41
1:i:259:GLN:HA	1:i:275:TYR:CD1	2.56	0.41
1:i:259:GLN:HA	1:i:275:TYR:HD1	1.86	0.41
1:i:325:GLN:HE21	1:i:330:THR:HG1	1.59	0.41
1:i:395:LEU:HD23	1:i:395:LEU:HA	1.83	0.41
1:i:585:ARG:HG2	1:i:586:GLY:N	2.36	0.41
1:j:239:VAL:HG13	1:j:684:TRP:HB2	2.02	0.41
1:j:259:GLN:HA	1:j:275:TYR:HD1	1.86	0.41
1:j:585:ARG:HG2	1:j:586:GLY:N	2.36	0.41
1:k:239:VAL:HG13	1:k:684:TRP:HB2	2.02	0.41
1:k:544:LYS:O	1:k:547:SER:OG	2.30	0.41
1:k:563:GLU:OE1	1:k:563:GLU:N	2.51	0.41
1:k:653:VAL:HA	1:k:654:PRO:HD3	1.93	0.41
1:k:733:ARG:HG2	1:k:734:ASN:O	2.20	0.41
1:l:272:TYR:HB2	1:l:378:LEU:HD22	2.02	0.41
1:l:568:THR:OG1	1:l:569:ASN:N	2.54	0.41
1:m:259:GLN:HA	1:m:275:TYR:HD1	1.86	0.41
1:m:272:TYR:HB2	1:m:378:LEU:HD22	2.02	0.41
1:n:239:VAL:HG13	1:n:684:TRP:HB2	2.02	0.41
1:n:530:GLU:O	1:n:532:LYS:N	2.53	0.41
1:n:568:THR:OG1	1:n:569:ASN:N	2.54	0.41
1:n:585:ARG:HG2	1:n:586:GLY:N	2.36	0.41
1:n:657:PRO:HA	1:n:666:PHE:HE1	1.86	0.41
1:o:259:GLN:HA	1:o:275:TYR:CD1	2.56	0.41
1:o:272:TYR:HB2	1:o:378:LEU:HD22	2.02	0.41
1:o:568:THR:OG1	1:o:569:ASN:N	2.54	0.41
1:p:356:SER:HB2	1:p:358:HIS:NE2	2.36	0.41
1:q:309:LYS:HA	1:q:309:LYS:HD2	1.74	0.41
1:q:421:HIS:HB2	1:q:637:PHE:HE1	1.85	0.41
1:q:553:ASP:OD1	1:s:461:GLN:HG2	2.21	0.41
1:q:568:THR:OG1	1:q:569:ASN:N	2.54	0.41
1:r:646:ILE:C	1:r:647:LEU:HD12	2.46	0.41
1:s:272:TYR:HB2	1:s:378:LEU:HD22	2.02	0.41
1:s:356:SER:HB2	1:s:358:HIS:NE2	2.36	0.41
1:s:379:THR:HG22	1:s:380:LEU:N	2.35	0.41
1:t:461:GLN:HG2	1:u:553:ASP:OD1	2.21	0.41
1:u:476:ASN:O	1:v:633:LEU:HB2	2.20	0.41
1:u:646:ILE:C	1:u:647:LEU:HD12	2.46	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:v:657:PRO:HA	1:v:666:PHE:HE1	1.86	0.41
1:w:336:LEU:HD13	1:w:336:LEU:HA	1.91	0.41
1:x:461:GLN:HG2	1:y:553:ASP:OD1	2.20	0.41
1:y:585:ARG:HG2	1:y:586:GLY:N	2.36	0.41
1:y:657:PRO:HA	1:y:666:PHE:HE1	1.86	0.41
1:z:272:TYR:HB2	1:z:378:LEU:HD22	2.02	0.41
1:z:356:SER:HB2	1:z:358:HIS:NE2	2.36	0.41
1:z:568:THR:OG1	1:z:569:ASN:N	2.54	0.41
1:1:395:LEU:HA	1:1:395:LEU:HD23	1.83	0.41
1:1:432:ARG:NH2	1:2:269:ASP:O	2.54	0.41
1:2:272:TYR:HB2	1:2:378:LEU:HD22	2.02	0.41
1:2:568:THR:OG1	1:2:569:ASN:N	2.54	0.41
1:3:259:GLN:HA	1:3:275:TYR:HD1	1.86	0.41
1:4:239:VAL:HG13	1:4:684:TRP:HB2	2.02	0.41
1:5:553:ASP:OD1	1:7:461:GLN:HG2	2.20	0.41
1:6:259:GLN:HA	1:6:275:TYR:HD1	1.86	0.41
1:6:585:ARG:N	1:6:588:ARG:HB3	2.35	0.41
1:7:356:SER:HB2	1:7:358:HIS:NE2	2.36	0.41
1:7:379:THR:HG22	1:7:380:LEU:N	2.35	0.41
1:A:269:ASP:O	1:I:432:ARG:NH2	2.54	0.41
1:B:657:PRO:HA	1:B:666:PHE:HE1	1.86	0.41
1:H:252:TYR:OH	1:H:372:VAL:O	2.39	0.41
1:H:568:THR:OG1	1:H:569:ASN:N	2.54	0.41
1:I:365:PHE:HA	1:I:366:PRO:HD3	1.94	0.41
1:J:239:VAL:HG13	1:J:684:TRP:HB2	2.02	0.41
1:K:497:ASN:ND2	1:8:455:THR:HA	2.30	0.41
1:M:518:ASN:O	1:M:519:PRO:C	2.61	0.41
1:M:646:ILE:C	1:M:647:LEU:HD12	2.46	0.41
1:N:421:HIS:HB2	1:N:637:PHE:HE1	1.85	0.41
1:N:657:PRO:HA	1:N:666:PHE:HE1	1.86	0.41
1:P:239:VAL:HG13	1:P:684:TRP:HB2	2.02	0.41
1:P:395:LEU:HD23	1:P:395:LEU:HA	1.83	0.41
1:R:403:LEU:HD23	1:R:403:LEU:HA	1.84	0.41
1:R:461:GLN:HG2	1:S:553:ASP:OD1	2.21	0.41
1:R:509:HIS:CB	1:R:514:ASP:HA	2.45	0.41
1:R:654:PRO:HB3	1:R:666:PHE:CE2	2.54	0.41
1:S:657:PRO:HA	1:S:666:PHE:HE1	1.86	0.41
1:T:461:GLN:HG2	1:d:553:ASP:OD1	2.20	0.41
1:U:421:HIS:HB2	1:U:637:PHE:HE1	1.85	0.41
1:V:461:GLN:HG2	1:e:553:ASP:OD1	2.21	0.41
1:a:252:TYR:CE1	1:a:374:GLN:HB2	2.55	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:b:356:SER:HB2	1:b:358:HIS:NE2	2.36	0.41
1:c:461:GLN:HG2	1:o:553:ASP:OD1	2.21	0.41
1:d:568:THR:OG1	1:d:569:ASN:N	2.54	0.41
1:g:325:GLN:HE21	1:g:330:THR:HG1	1.60	0.41
1:h:421:HIS:HB2	1:h:637:PHE:HE1	1.85	0.41
1:h:544:LYS:O	1:h:547:SER:OG	2.30	0.41
1:i:461:GLN:HG2	1:j:553:ASP:OD1	2.21	0.41
1:j:509:HIS:CB	1:j:514:ASP:HA	2.45	0.41
1:j:530:GLU:O	1:j:532:LYS:N	2.53	0.41
1:k:356:SER:HB2	1:k:358:HIS:NE2	2.36	0.41
1:m:421:HIS:HB2	1:m:637:PHE:HE1	1.85	0.41
1:o:356:SER:HB2	1:o:358:HIS:NE2	2.36	0.41
1:o:585:ARG:HG2	1:o:586:GLY:N	2.36	0.41
1:p:378:LEU:HD23	1:p:378:LEU:HA	1.93	0.41
1:q:395:LEU:HD23	1:q:395:LEU:HA	1.83	0.41
1:r:421:HIS:HB2	1:r:637:PHE:HE1	1.85	0.41
1:s:252:TYR:OH	1:s:372:VAL:O	2.39	0.41
1:s:259:GLN:HA	1:s:275:TYR:CD1	2.56	0.41
1:s:518:ASN:O	1:s:519:PRO:C	2.61	0.41
1:t:272:TYR:HB2	1:t:378:LEU:HD22	2.02	0.41
1:t:403:LEU:HD23	1:t:403:LEU:HA	1.84	0.41
1:t:585:ARG:N	1:t:588:ARG:HB3	2.35	0.41
1:u:395:LEU:HD23	1:u:395:LEU:HA	1.82	0.41
1:u:661:PHE:HA	1:5:371:MET:CE	2.38	0.41
1:v:646:ILE:C	1:v:647:LEU:HD12	2.46	0.41
1:w:252:TYR:OH	1:w:372:VAL:O	2.39	0.41
1:x:509:HIS:CB	1:x:514:ASP:HA	2.45	0.41
1:y:421:HIS:HB2	1:y:637:PHE:HE1	1.85	0.41
1:z:633:LEU:HB2	1:2:476:ASN:O	2.21	0.41
1:1:272:TYR:HB2	1:1:378:LEU:HD22	2.02	0.41
1:3:553:ASP:OD1	1:4:461:GLN:HG2	2.20	0.41
1:4:530:GLU:O	1:4:532:LYS:N	2.53	0.41
1:4:568:THR:OG1	1:4:569:ASN:N	2.54	0.41
1:5:733:ARG:HG2	1:5:734:ASN:O	2.20	0.41
1:6:272:TYR:HB2	1:6:378:LEU:HD22	2.03	0.41
1:6:403:LEU:HA	1:6:403:LEU:HD23	1.84	0.41
1:6:461:GLN:HG2	1:7:553:ASP:OD1	2.21	0.41
1:7:272:TYR:HB2	1:7:378:LEU:HD22	2.02	0.41
1:B:259:GLN:HA	1:B:275:TYR:HD1	1.86	0.40
1:B:356:SER:HB2	1:B:358:HIS:NE2	2.36	0.40
1:E:272:TYR:HB2	1:E:378:LEU:HD22	2.02	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:541:ILE:HD13	1:F:462:PHE:CE1	2.56	0.40
1:F:646:ILE:C	1:F:647:LEU:HD12	2.46	0.40
1:F:657:PRO:HA	1:F:666:PHE:HE1	1.86	0.40
1:G:530:GLU:O	1:G:532:LYS:N	2.53	0.40
1:H:294:ARG:HH12	1:H:298:ARG:HB2	1.83	0.40
1:I:657:PRO:HA	1:I:666:PHE:HE1	1.86	0.40
1:J:356:SER:HB2	1:J:358:HIS:NE2	2.36	0.40
1:J:646:ILE:C	1:J:647:LEU:HD12	2.46	0.40
1:J:701:THR:HG1	1:K:699:GLN:HB2	1.86	0.40
1:K:693:ARG:NE	1:K:695:ASN:OD1	2.41	0.40
1:M:239:VAL:HG13	1:M:684:TRP:HB2	2.02	0.40
1:M:356:SER:HB2	1:M:358:HIS:NE2	2.36	0.40
1:M:492:SER:H	1:b:459:ARG:HH12	1.67	0.40
1:M:654:PRO:HB3	1:M:666:PHE:CE2	2.54	0.40
1:N:335:ASN:C	1:N:336:LEU:HD22	2.47	0.40
1:N:356:SER:HB2	1:N:358:HIS:NE2	2.36	0.40
1:N:365:PHE:HA	1:N:366:PRO:HD3	1.94	0.40
1:N:461:GLN:HG2	1:P:553:ASP:OD1	2.21	0.40
1:P:272:TYR:HB2	1:P:378:LEU:HD22	2.02	0.40
1:Q:259:GLN:HA	1:Q:275:TYR:CD1	2.56	0.40
1:Q:733:ARG:HG2	1:Q:734:ASN:O	2.20	0.40
1:S:335:ASN:C	1:S:336:LEU:HD22	2.47	0.40
1:S:455:THR:HA	1:U:497:ASN:ND2	2.33	0.40
1:T:356:SER:HB2	1:T:358:HIS:NE2	2.36	0.40
1:T:646:ILE:C	1:T:647:LEU:HD12	2.46	0.40
1:U:646:ILE:C	1:U:647:LEU:HD12	2.46	0.40
1:U:657:PRO:HA	1:U:666:PHE:HE1	1.86	0.40
1:V:510:LEU:HD23	1:V:510:LEU:HA	1.95	0.40
1:X:395:LEU:HA	1:X:395:LEU:HD23	1.83	0.40
1:Z:693:ARG:NE	1:Z:695:ASN:OD1	2.41	0.40
1:a:335:ASN:C	1:a:336:LEU:HD22	2.47	0.40
1:a:356:SER:HB2	1:a:358:HIS:NE2	2.36	0.40
1:c:365:PHE:HA	1:c:366:PRO:HD3	1.94	0.40
1:c:657:PRO:HA	1:c:666:PHE:HE1	1.86	0.40
1:e:335:ASN:C	1:e:336:LEU:HD22	2.46	0.40
1:f:585:ARG:N	1:f:588:ARG:HB3	2.35	0.40
1:g:253:ASN:O	1:g:256:LEU:HG	2.22	0.40
1:g:657:PRO:HA	1:g:666:PHE:HE1	1.86	0.40
1:h:259:GLN:HA	1:h:275:TYR:CD1	2.56	0.40
1:i:646:ILE:C	1:i:647:LEU:HD12	2.46	0.40
1:m:304:TRP:O	1:m:423:SER:OG	2.25	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:m:378:LEU:HD23	1:m:378:LEU:HA	1.93	0.40
1:n:236:GLY:O	1:n:237:ASP:C	2.65	0.40
1:p:510:LEU:HD23	1:p:510:LEU:HA	1.95	0.40
1:p:530:GLU:O	1:p:532:LYS:N	2.53	0.40
1:q:259:GLN:HA	1:q:275:TYR:HD1	1.86	0.40
1:q:356:SER:HB2	1:q:358:HIS:NE2	2.36	0.40
1:s:294:ARG:HH12	1:s:298:ARG:HB2	1.83	0.40
1:s:568:THR:OG1	1:s:569:ASN:N	2.54	0.40
1:t:654:PRO:HB3	1:t:666:PHE:CE2	2.54	0.40
1:u:335:ASN:C	1:u:336:LEU:HD22	2.47	0.40
1:u:530:GLU:O	1:u:532:LYS:N	2.53	0.40
1:u:657:PRO:HA	1:u:666:PHE:HE1	1.86	0.40
1:v:335:ASN:C	1:v:336:LEU:HD22	2.47	0.40
1:y:403:LEU:HD23	1:y:403:LEU:HA	1.84	0.40
1:y:568:THR:OG1	1:y:569:ASN:N	2.54	0.40
1:z:335:ASN:C	1:z:336:LEU:HD22	2.47	0.40
1:1:462:PHE:CE1	1:2:541:ILE:HD13	2.55	0.40
1:1:646:ILE:C	1:1:647:LEU:HD12	2.46	0.40
1:3:272:TYR:HB2	1:3:378:LEU:HD22	2.02	0.40
1:4:657:PRO:HA	1:4:666:PHE:HE1	1.86	0.40
1:5:259:GLN:HA	1:5:275:TYR:CD1	2.56	0.40
1:5:646:ILE:C	1:5:647:LEU:HD12	2.46	0.40
1:6:421:HIS:HB2	1:6:637:PHE:HE1	1.85	0.40
1:6:646:ILE:C	1:6:647:LEU:HD12	2.46	0.40
1:6:657:PRO:HA	1:6:666:PHE:HE1	1.86	0.40
1:8:272:TYR:HB2	1:8:378:LEU:HD22	2.03	0.40
1:8:509:HIS:CB	1:8:514:ASP:HA	2.45	0.40
1:A:253:ASN:O	1:A:256:LEU:HG	2.22	0.40
1:A:553:ASP:OD1	1:I:461:GLN:HG2	2.21	0.40
1:C:259:GLN:HA	1:C:275:TYR:HD1	1.86	0.40
1:C:657:PRO:HA	1:C:666:PHE:HE1	1.86	0.40
1:D:253:ASN:O	1:D:256:LEU:HG	2.22	0.40
1:D:309:LYS:HA	1:D:309:LYS:HD2	1.74	0.40
1:E:239:VAL:HG13	1:E:684:TRP:HB2	2.02	0.40
1:E:553:ASP:OD1	1:F:461:GLN:HG2	2.21	0.40
1:F:259:GLN:HA	1:F:275:TYR:CD1	2.56	0.40
1:F:322:GLU:OE1	1:F:322:GLU:N	2.55	0.40
1:F:335:ASN:C	1:F:336:LEU:HD22	2.47	0.40
1:F:421:HIS:HB2	1:F:637:PHE:HE1	1.85	0.40
1:H:236:GLY:O	1:H:237:ASP:C	2.65	0.40
1:H:259:GLN:HA	1:H:275:TYR:CD1	2.56	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:492:SER:H	1:Y:459:ARG:HH12	1.67	0.40
1:K:492:SER:H	1:8:459:ARG:HH12	1.68	0.40
1:L:322:GLU:OE1	1:L:322:GLU:N	2.55	0.40
1:L:568:THR:OG1	1:L:569:ASN:N	2.54	0.40
1:L:657:PRO:HA	1:L:666:PHE:HE1	1.86	0.40
1:N:259:GLN:HA	1:N:275:TYR:CD1	2.56	0.40
1:N:462:PHE:CE1	1:P:541:ILE:HD13	2.57	0.40
1:Q:335:ASN:C	1:Q:336:LEU:HD22	2.47	0.40
1:R:335:ASN:C	1:R:336:LEU:HD22	2.47	0.40
1:R:497:ASN:ND2	1:U:455:THR:HA	2.34	0.40
1:S:306:PHE:HB3	1:S:686:LEU:HD23	2.04	0.40
1:U:335:ASN:C	1:U:336:LEU:HD22	2.47	0.40
1:U:356:SER:HB2	1:U:358:HIS:NE2	2.36	0.40
1:U:509:HIS:CB	1:U:514:ASP:HA	2.45	0.40
1:V:253:ASN:O	1:V:256:LEU:HG	2.22	0.40
1:V:322:GLU:OE1	1:V:322:GLU:N	2.55	0.40
1:V:568:THR:OG1	1:V:569:ASN:N	2.54	0.40
1:W:259:GLN:HA	1:W:275:TYR:HD1	1.86	0.40
1:W:585:ARG:HG2	1:W:586:GLY:N	2.36	0.40
1:X:252:TYR:OH	1:X:372:VAL:O	2.39	0.40
1:Y:259:GLN:HA	1:Y:275:TYR:CD1	2.56	0.40
1:Y:306:PHE:HB3	1:Y:686:LEU:HD23	2.04	0.40
1:Y:356:SER:HB2	1:Y:358:HIS:NE2	2.36	0.40
1:Z:304:TRP:O	1:Z:423:SER:OG	2.25	0.40
1:Z:421:HIS:HB2	1:Z:637:PHE:HE1	1.85	0.40
1:a:421:HIS:HB2	1:a:637:PHE:HE1	1.85	0.40
1:a:657:PRO:HA	1:a:666:PHE:HE1	1.86	0.40
1:b:239:VAL:HG13	1:b:684:TRP:HB2	2.02	0.40
1:b:259:GLN:HA	1:b:275:TYR:HD1	1.86	0.40
1:c:322:GLU:N	1:c:322:GLU:OE1	2.55	0.40
1:c:336:LEU:HD13	1:c:336:LEU:HA	1.91	0.40
1:c:343:PHE:HB3	1:c:400:SER:CA	2.46	0.40
1:f:253:ASN:O	1:f:256:LEU:HG	2.22	0.40
1:f:259:GLN:HA	1:f:275:TYR:CD1	2.56	0.40
1:f:492:SER:H	1:g:459:ARG:HH12	1.68	0.40
1:f:530:GLU:O	1:f:532:LYS:N	2.53	0.40
1:g:646:ILE:C	1:g:647:LEU:HD12	2.46	0.40
1:h:239:VAL:HG13	1:h:684:TRP:HB2	2.02	0.40
1:i:253:ASN:O	1:i:256:LEU:HG	2.22	0.40
1:j:253:ASN:O	1:j:256:LEU:HG	2.22	0.40
1:j:585:ARG:N	1:j:588:ARG:HB3	2.35	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:k:259:GLN:HA	1:k:275:TYR:CD1	2.56	0.40
1:k:421:HIS:HB2	1:k:637:PHE:HE1	1.85	0.40
1:k:509:HIS:CB	1:k:514:ASP:HA	2.45	0.40
1:k:530:GLU:O	1:k:532:LYS:N	2.53	0.40
1:l:335:ASN:C	1:l:336:LEU:HD22	2.47	0.40
1:n:322:GLU:N	1:n:322:GLU:OE1	2.55	0.40
1:o:430:LEU:HD23	1:o:430:LEU:HA	1.87	0.40
1:o:432:ARG:NH2	1:p:269:ASP:O	2.53	0.40
1:q:585:ARG:HG2	1:q:586:GLY:N	2.36	0.40
1:r:252:TYR:OH	1:r:372:VAL:O	2.39	0.40
1:r:272:TYR:HB2	1:r:378:LEU:HD22	2.02	0.40
1:r:356:SER:HB2	1:r:358:HIS:NE2	2.36	0.40
1:r:459:ARG:HH12	1:s:492:SER:H	1.68	0.40
1:t:259:GLN:HA	1:t:275:TYR:HD1	1.86	0.40
1:u:306:PHE:HB3	1:u:686:LEU:HD23	2.04	0.40
1:u:365:PHE:HA	1:u:366:PRO:HD3	1.94	0.40
1:u:585:ARG:N	1:u:588:ARG:HB3	2.35	0.40
1:w:335:ASN:C	1:w:336:LEU:HD22	2.47	0.40
1:x:252:TYR:OH	1:x:372:VAL:O	2.39	0.40
1:x:272:TYR:HB2	1:x:378:LEU:HD22	2.02	0.40
1:y:253:ASN:O	1:y:256:LEU:HG	2.22	0.40
1:y:322:GLU:N	1:y:322:GLU:OE1	2.55	0.40
1:1:356:SER:HB2	1:1:358:HIS:NE2	2.36	0.40
1:3:365:PHE:HA	1:3:366:PRO:HD3	1.94	0.40
1:5:335:ASN:C	1:5:336:LEU:HD22	2.47	0.40
1:5:657:PRO:HA	1:5:666:PHE:HE1	1.86	0.40
1:6:322:GLU:OE1	1:6:322:GLU:N	2.55	0.40
1:6:335:ASN:C	1:6:336:LEU:HD22	2.47	0.40
1:8:239:VAL:HG13	1:8:684:TRP:HB2	2.02	0.40
1:8:259:GLN:HA	1:8:275:TYR:HD1	1.86	0.40
1:A:432:ARG:NH2	1:G:269:ASP:O	2.53	0.40
1:A:530:GLU:O	1:A:532:LYS:N	2.53	0.40
1:B:239:VAL:HG13	1:B:684:TRP:HB2	2.02	0.40
1:B:459:ARG:HH12	1:J:492:SER:H	1.67	0.40
1:C:322:GLU:OE1	1:C:322:GLU:N	2.55	0.40
1:C:446:SER:OG	1:C:447:ARG:N	2.52	0.40
1:C:568:THR:OG1	1:C:569:ASN:N	2.54	0.40
1:D:403:LEU:HA	1:D:403:LEU:HD23	1.84	0.40
1:E:322:GLU:N	1:E:322:GLU:OE1	2.55	0.40
1:F:253:ASN:O	1:F:256:LEU:HG	2.22	0.40
1:G:335:ASN:C	1:G:336:LEU:HD22	2.47	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:455:THR:HA	1:W:497:ASN:ND2	2.34	0.40
1:I:322:GLU:OE1	1:I:322:GLU:N	2.55	0.40
1:I:343:PHE:HB3	1:I:400:SER:CA	2.46	0.40
1:K:403:LEU:HA	1:K:403:LEU:HD23	1.84	0.40
1:L:259:GLN:HA	1:L:275:TYR:HD1	1.86	0.40
1:O:553:ASP:OD1	1:n:461:GLN:HG2	2.20	0.40
1:P:646:ILE:C	1:P:647:LEU:HD12	2.46	0.40
1:Q:657:PRO:HA	1:Q:666:PHE:HE1	1.86	0.40
1:R:259:GLN:HA	1:R:275:TYR:HD1	1.86	0.40
1:R:272:TYR:HB2	1:R:378:LEU:HD22	2.03	0.40
1:R:336:LEU:HD13	1:R:336:LEU:HA	1.91	0.40
1:R:356:SER:HB2	1:R:358:HIS:NE2	2.36	0.40
1:S:259:GLN:HA	1:S:275:TYR:CD1	2.56	0.40
1:S:365:PHE:HA	1:S:366:PRO:HD3	1.94	0.40
1:S:530:GLU:O	1:S:532:LYS:N	2.53	0.40
1:S:568:THR:OG1	1:S:569:ASN:N	2.54	0.40
1:U:371:MET:CE	1:e:661:PHE:HA	2.38	0.40
1:V:236:GLY:O	1:V:237:ASP:C	2.65	0.40
1:V:335:ASN:C	1:V:336:LEU:HD22	2.47	0.40
1:V:356:SER:HB2	1:V:358:HIS:NE2	2.36	0.40
1:V:646:ILE:C	1:V:647:LEU:HD12	2.46	0.40
1:W:236:GLY:O	1:W:237:ASP:C	2.65	0.40
1:W:309:LYS:HA	1:W:309:LYS:HD2	1.74	0.40
1:W:356:SER:HB2	1:W:358:HIS:NE2	2.36	0.40
1:Y:239:VAL:HG13	1:Y:684:TRP:HB2	2.02	0.40
1:Y:252:TYR:OH	1:Y:372:VAL:O	2.39	0.40
1:Y:272:TYR:HB2	1:Y:378:LEU:HD22	2.02	0.40
1:Z:568:THR:OG1	1:Z:569:ASN:N	2.54	0.40
1:c:661:PHE:HA	1:s:371:MET:CE	2.39	0.40
1:e:510:LEU:HD23	1:e:510:LEU:HA	1.95	0.40
1:h:322:GLU:OE1	1:h:322:GLU:N	2.55	0.40
1:h:530:GLU:O	1:h:532:LYS:N	2.53	0.40
1:j:236:GLY:O	1:j:237:ASP:C	2.65	0.40
1:k:322:GLU:OE1	1:k:322:GLU:N	2.55	0.40
1:m:657:PRO:HA	1:m:666:PHE:HE1	1.86	0.40
1:n:253:ASN:O	1:n:256:LEU:HG	2.22	0.40
1:o:253:ASN:O	1:o:256:LEU:HG	2.22	0.40
1:o:530:GLU:O	1:o:532:LYS:N	2.53	0.40
1:q:461:GLN:HG2	1:r:553:ASP:OD1	2.20	0.40
1:q:497:ASN:ND2	1:s:455:THR:HA	2.34	0.40
1:r:259:GLN:HA	1:r:275:TYR:CD1	2.56	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:s:236:GLY:O	1:s:237:ASP:C	2.65	0.40
1:s:372:VAL:HA	1:s:373:PRO:HD3	1.92	0.40
1:t:335:ASN:C	1:t:336:LEU:HD22	2.47	0.40
1:t:336:LEU:HD13	1:t:336:LEU:HA	1.91	0.40
1:t:356:SER:HB2	1:t:358:HIS:NE2	2.36	0.40
1:u:568:THR:OG1	1:u:569:ASN:N	2.54	0.40
1:v:356:SER:HB2	1:v:358:HIS:NE2	2.36	0.40
1:v:568:THR:OG1	1:v:569:ASN:N	2.54	0.40
1:y:272:TYR:HB2	1:y:378:LEU:HD22	2.02	0.40
1:y:306:PHE:HB3	1:y:686:LEU:HD23	2.04	0.40
1:y:335:ASN:C	1:y:336:LEU:HD22	2.47	0.40
1:y:356:SER:HB2	1:y:358:HIS:NE2	2.36	0.40
1:y:646:ILE:C	1:y:647:LEU:HD12	2.46	0.40
1:z:259:GLN:HA	1:z:275:TYR:HD1	1.86	0.40
1:4:236:GLY:O	1:4:237:ASP:C	2.65	0.40
1:4:322:GLU:N	1:4:322:GLU:OE1	2.55	0.40
1:5:259:GLN:HA	1:5:275:TYR:HD1	1.86	0.40
1:6:259:GLN:HA	1:6:275:TYR:CD1	2.56	0.40
1:7:253:ASN:O	1:7:256:LEU:HG	2.22	0.40
1:8:518:ASN:O	1:8:519:PRO:C	2.61	0.40
1:8:646:ILE:C	1:8:647:LEU:HD12	2.46	0.40
1:A:646:ILE:C	1:A:647:LEU:HD12	2.46	0.40
1:B:462:PHE:CE1	1:J:541:ILE:HD13	2.56	0.40
1:C:253:ASN:O	1:C:256:LEU:HG	2.22	0.40
1:D:657:PRO:HA	1:D:666:PHE:HE1	1.86	0.40
1:E:253:ASN:O	1:E:256:LEU:HG	2.22	0.40
1:E:335:ASN:C	1:E:336:LEU:HD22	2.47	0.40
1:E:530:GLU:O	1:E:532:LYS:N	2.53	0.40
1:G:252:TYR:OH	1:G:372:VAL:O	2.39	0.40
1:G:272:TYR:HB2	1:G:378:LEU:HD22	2.02	0.40
1:G:322:GLU:N	1:G:322:GLU:OE1	2.55	0.40
1:J:322:GLU:N	1:J:322:GLU:OE1	2.55	0.40
1:K:239:VAL:HG13	1:K:684:TRP:HB2	2.02	0.40
1:K:253:ASN:O	1:K:256:LEU:HG	2.22	0.40
1:L:446:SER:OG	1:L:447:ARG:N	2.52	0.40
1:M:322:GLU:N	1:M:322:GLU:OE1	2.55	0.40
1:P:530:GLU:O	1:P:532:LYS:N	2.53	0.40
1:Q:259:GLN:HA	1:Q:275:TYR:HD1	1.86	0.40
1:Q:646:ILE:C	1:Q:647:LEU:HD12	2.46	0.40
1:T:272:TYR:HB2	1:T:378:LEU:HD22	2.02	0.40
1:T:371:MET:CE	1:U:661:PHE:HA	2.39	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:U:306:PHE:HB3	1:U:686:LEU:HD23	2.04	0.40
1:U:568:THR:OG1	1:U:569:ASN:N	2.54	0.40
1:U:585:ARG:HG2	1:U:586:GLY:N	2.36	0.40
1:V:272:TYR:HB2	1:V:378:LEU:HD22	2.02	0.40
1:X:272:TYR:HB2	1:X:378:LEU:HD22	2.03	0.40
1:X:509:HIS:CB	1:X:514:ASP:HA	2.45	0.40
1:Y:510:LEU:HD23	1:Y:510:LEU:HA	1.95	0.40
1:a:239:VAL:HG13	1:a:684:TRP:HB2	2.02	0.40
1:a:259:GLN:HA	1:a:275:TYR:CD1	2.56	0.40
1:b:309:LYS:HD2	1:b:309:LYS:HA	1.74	0.40
1:d:259:GLN:HA	1:d:275:TYR:CD1	2.56	0.40
1:d:530:GLU:O	1:d:532:LYS:N	2.53	0.40
1:e:322:GLU:OE1	1:e:322:GLU:N	2.55	0.40
1:e:356:SER:HB2	1:e:358:HIS:NE2	2.36	0.40
1:f:236:GLY:O	1:f:237:ASP:C	2.65	0.40
1:f:462:PHE:CE1	1:h:541:ILE:HD13	2.57	0.40
1:h:253:ASN:O	1:h:256:LEU:HG	2.22	0.40
1:h:403:LEU:HD23	1:h:403:LEU:HA	1.84	0.40
1:h:654:PRO:HB3	1:h:666:PHE:CE2	2.54	0.40
1:i:657:PRO:HA	1:i:666:PHE:HE1	1.86	0.40
1:j:259:GLN:HA	1:j:275:TYR:CD1	2.56	0.40
1:j:335:ASN:C	1:j:336:LEU:HD22	2.47	0.40
1:l:259:GLN:HA	1:l:275:TYR:HD1	1.86	0.40
1:n:356:SER:HB2	1:n:358:HIS:NE2	2.36	0.40
1:o:693:ARG:NE	1:o:695:ASN:OD1	2.41	0.40
1:p:252:TYR:OH	1:p:372:VAL:O	2.39	0.40
1:p:322:GLU:N	1:p:322:GLU:OE1	2.55	0.40
1:p:335:ASN:C	1:p:336:LEU:HD22	2.47	0.40
1:r:239:VAL:HG13	1:r:684:TRP:HB2	2.02	0.40
1:u:259:GLN:HA	1:u:275:TYR:CD1	2.56	0.40
1:u:259:GLN:HA	1:u:275:TYR:HD1	1.86	0.40
1:v:585:ARG:HG2	1:v:586:GLY:N	2.36	0.40
1:w:322:GLU:OE1	1:w:322:GLU:N	2.55	0.40
1:w:356:SER:HB2	1:w:358:HIS:NE2	2.36	0.40
1:y:236:GLY:O	1:y:237:ASP:C	2.65	0.40
1:2:239:VAL:HG13	1:2:684:TRP:HB2	2.02	0.40
1:3:236:GLY:O	1:3:237:ASP:C	2.65	0.40
1:4:253:ASN:O	1:4:256:LEU:HG	2.22	0.40
1:6:253:ASN:O	1:6:256:LEU:HG	2.22	0.40
1:7:306:PHE:HB3	1:7:686:LEU:HD23	2.04	0.40
1:7:322:GLU:N	1:7:322:GLU:OE1	2.55	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:336:LEU:HD13	1:A:336:LEU:HA	1.90	0.40
1:A:693:ARG:NE	1:A:695:ASN:OD1	2.41	0.40
1:B:236:GLY:O	1:B:237:ASP:C	2.65	0.40
1:C:585:ARG:N	1:C:588:ARG:HB3	2.35	0.40
1:D:239:VAL:HG13	1:D:684:TRP:HB2	2.02	0.40
1:E:306:PHE:HB3	1:E:686:LEU:HD23	2.04	0.40
1:F:530:GLU:O	1:F:532:LYS:N	2.53	0.40
1:I:530:GLU:O	1:I:532:LYS:N	2.53	0.40
1:K:553:ASP:OD1	1:8:461:GLN:HG2	2.20	0.40
1:K:657:PRO:HA	1:K:666:PHE:HE1	1.86	0.40
1:L:253:ASN:O	1:L:256:LEU:HG	2.22	0.40
1:M:306:PHE:HB3	1:M:686:LEU:HD23	2.04	0.40
1:M:541:ILE:HD13	1:b:462:PHE:CE1	2.57	0.40
1:N:239:VAL:HG13	1:N:684:TRP:HB2	2.02	0.40
1:N:530:GLU:O	1:N:532:LYS:N	2.53	0.40
1:O:236:GLY:O	1:O:237:ASP:C	2.65	0.40
1:O:541:ILE:HD13	1:n:462:PHE:CE1	2.57	0.40
1:Q:356:SER:HB2	1:Q:358:HIS:NE2	2.36	0.40
1:R:306:PHE:HB3	1:R:686:LEU:HD23	2.04	0.40
1:S:236:GLY:O	1:S:237:ASP:C	2.65	0.40
1:U:239:VAL:HG13	1:U:684:TRP:HB2	2.02	0.40
1:V:306:PHE:HB3	1:V:686:LEU:HD23	2.04	0.40
1:V:492:SER:H	1:X:459:ARG:HH12	1.66	0.40
1:W:239:VAL:HG13	1:W:684:TRP:HB2	2.02	0.40
1:X:239:VAL:HG13	1:X:684:TRP:HB2	2.02	0.40
1:X:530:GLU:C	1:X:532:LYS:N	2.77	0.40
1:Y:335:ASN:C	1:Y:336:LEU:HD22	2.47	0.40
1:Y:343:PHE:HB3	1:Y:400:SER:CA	2.46	0.40
1:Y:657:PRO:HA	1:Y:666:PHE:HE1	1.86	0.40
1:Z:657:PRO:HA	1:Z:666:PHE:HE1	1.86	0.40
1:a:343:PHE:HB3	1:a:400:SER:CA	2.46	0.40
1:b:236:GLY:O	1:b:237:ASP:C	2.65	0.40
1:c:530:GLU:O	1:c:532:LYS:N	2.53	0.40
1:f:335:ASN:C	1:f:336:LEU:HD22	2.47	0.40
1:g:395:LEU:HD23	1:g:395:LEU:HA	1.82	0.40
1:h:653:VAL:HA	1:h:654:PRO:HD3	1.93	0.40
1:i:372:VAL:HA	1:i:373:PRO:HD3	1.92	0.40
1:l:306:PHE:HB3	1:l:686:LEU:HD23	2.04	0.40
1:m:343:PHE:HB3	1:m:400:SER:CA	2.46	0.40
1:m:568:THR:OG1	1:m:569:ASN:N	2.54	0.40
1:o:239:VAL:HG13	1:o:684:TRP:HB2	2.02	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:o:585:ARG:N	1:o:588:ARG:HB3	2.35	0.40
1:o:646:ILE:C	1:o:647:LEU:HD12	2.46	0.40
1:q:236:GLY:O	1:q:237:ASP:C	2.65	0.40
1:q:259:GLN:HA	1:q:275:TYR:CD1	2.56	0.40
1:r:236:GLY:O	1:r:237:ASP:C	2.65	0.40
1:r:306:PHE:HB3	1:r:686:LEU:HD23	2.04	0.40
1:r:335:ASN:C	1:r:336:LEU:HD22	2.47	0.40
1:r:657:PRO:HA	1:r:666:PHE:HE1	1.86	0.40
1:s:253:ASN:O	1:s:256:LEU:HG	2.22	0.40
1:t:306:PHE:HB3	1:t:686:LEU:HD23	2.04	0.40
1:u:236:GLY:O	1:u:237:ASP:C	2.65	0.40
1:u:356:SER:HB2	1:u:358:HIS:NE2	2.36	0.40
1:u:461:GLN:HG2	1:v:553:ASP:OD1	2.21	0.40
1:v:306:PHE:HB3	1:v:686:LEU:HD23	2.04	0.40
1:x:530:GLU:C	1:x:532:LYS:N	2.77	0.40
1:y:252:TYR:OH	1:y:372:VAL:O	2.39	0.40
1:y:259:GLN:HA	1:y:275:TYR:HD1	1.86	0.40
1:z:322:GLU:OE1	1:z:322:GLU:N	2.55	0.40
1:2:259:GLN:HA	1:2:275:TYR:CD1	2.56	0.40
1:2:430:LEU:HD23	1:2:430:LEU:HA	1.87	0.40
1:2:585:ARG:HG2	1:2:586:GLY:N	2.36	0.40
1:4:356:SER:HB2	1:4:358:HIS:NE2	2.36	0.40
1:6:530:GLU:O	1:6:532:LYS:N	2.53	0.40
1:7:239:VAL:HG13	1:7:684:TRP:HB2	2.02	0.40
1:7:259:GLN:HA	1:7:275:TYR:HD1	1.86	0.40
1:8:356:SER:HB2	1:8:358:HIS:NE2	2.36	0.40
1:8:530:GLU:O	1:8:532:LYS:N	2.53	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	509/735 (69%)	469 (92%)	40 (8%)	0	100	100
1	2	509/735 (69%)	469 (92%)	40 (8%)	0	100	100
1	3	509/735 (69%)	469 (92%)	40 (8%)	0	100	100
1	4	509/735 (69%)	469 (92%)	40 (8%)	0	100	100
1	5	509/735 (69%)	469 (92%)	40 (8%)	0	100	100
1	6	509/735 (69%)	469 (92%)	40 (8%)	0	100	100
1	7	509/735 (69%)	469 (92%)	40 (8%)	0	100	100
1	8	509/735 (69%)	469 (92%)	40 (8%)	0	100	100
1	A	509/735 (69%)	469 (92%)	40 (8%)	0	100	100
1	B	509/735 (69%)	469 (92%)	40 (8%)	0	100	100
1	C	509/735 (69%)	469 (92%)	40 (8%)	0	100	100
1	D	509/735 (69%)	469 (92%)	40 (8%)	0	100	100
1	E	509/735 (69%)	469 (92%)	40 (8%)	0	100	100
1	F	509/735 (69%)	469 (92%)	40 (8%)	0	100	100
1	G	509/735 (69%)	469 (92%)	40 (8%)	0	100	100
1	H	509/735 (69%)	469 (92%)	40 (8%)	0	100	100
1	I	509/735 (69%)	469 (92%)	40 (8%)	0	100	100
1	J	509/735 (69%)	469 (92%)	40 (8%)	0	100	100
1	K	509/735 (69%)	469 (92%)	40 (8%)	0	100	100
1	L	509/735 (69%)	469 (92%)	40 (8%)	0	100	100
1	M	509/735 (69%)	469 (92%)	40 (8%)	0	100	100
1	N	509/735 (69%)	469 (92%)	40 (8%)	0	100	100
1	O	509/735 (69%)	469 (92%)	40 (8%)	0	100	100
1	P	509/735 (69%)	469 (92%)	40 (8%)	0	100	100
1	Q	509/735 (69%)	469 (92%)	40 (8%)	0	100	100
1	R	509/735 (69%)	469 (92%)	40 (8%)	0	100	100
1	S	509/735 (69%)	469 (92%)	40 (8%)	0	100	100
1	T	509/735 (69%)	469 (92%)	40 (8%)	0	100	100
1	U	509/735 (69%)	469 (92%)	40 (8%)	0	100	100
1	V	509/735 (69%)	469 (92%)	40 (8%)	0	100	100
1	W	509/735 (69%)	469 (92%)	40 (8%)	0	100	100
1	X	509/735 (69%)	469 (92%)	40 (8%)	0	100	100

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	Y	509/735 (69%)	468 (92%)	41 (8%)	0	100	100
1	Z	509/735 (69%)	469 (92%)	40 (8%)	0	100	100
1	a	509/735 (69%)	469 (92%)	40 (8%)	0	100	100
1	b	509/735 (69%)	469 (92%)	40 (8%)	0	100	100
1	c	509/735 (69%)	469 (92%)	40 (8%)	0	100	100
1	d	509/735 (69%)	469 (92%)	40 (8%)	0	100	100
1	e	509/735 (69%)	469 (92%)	40 (8%)	0	100	100
1	f	509/735 (69%)	469 (92%)	40 (8%)	0	100	100
1	g	509/735 (69%)	469 (92%)	40 (8%)	0	100	100
1	h	509/735 (69%)	469 (92%)	40 (8%)	0	100	100
1	i	509/735 (69%)	469 (92%)	40 (8%)	0	100	100
1	j	509/735 (69%)	469 (92%)	40 (8%)	0	100	100
1	k	509/735 (69%)	469 (92%)	40 (8%)	0	100	100
1	l	509/735 (69%)	469 (92%)	40 (8%)	0	100	100
1	m	509/735 (69%)	468 (92%)	41 (8%)	0	100	100
1	n	509/735 (69%)	469 (92%)	40 (8%)	0	100	100
1	o	509/735 (69%)	469 (92%)	40 (8%)	0	100	100
1	p	509/735 (69%)	469 (92%)	40 (8%)	0	100	100
1	q	509/735 (69%)	469 (92%)	40 (8%)	0	100	100
1	r	509/735 (69%)	469 (92%)	40 (8%)	0	100	100
1	s	509/735 (69%)	469 (92%)	40 (8%)	0	100	100
1	t	509/735 (69%)	469 (92%)	40 (8%)	0	100	100
1	u	509/735 (69%)	469 (92%)	40 (8%)	0	100	100
1	v	509/735 (69%)	469 (92%)	40 (8%)	0	100	100
1	w	509/735 (69%)	469 (92%)	40 (8%)	0	100	100
1	x	509/735 (69%)	469 (92%)	40 (8%)	0	100	100
1	y	509/735 (69%)	469 (92%)	40 (8%)	0	100	100
1	z	509/735 (69%)	469 (92%)	40 (8%)	0	100	100
All	All	30540/44100 (69%)	28138 (92%)	2402 (8%)	0	100	100

There are no Ramachandran outliers to report.

5.3.2 Protein sidechains ⓘ

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

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

Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
1	1	455/630 (72%)	454 (100%)	1 (0%)	92	94
1	2	455/630 (72%)	454 (100%)	1 (0%)	92	94
1	3	455/630 (72%)	454 (100%)	1 (0%)	92	94
1	4	455/630 (72%)	454 (100%)	1 (0%)	92	94
1	5	455/630 (72%)	454 (100%)	1 (0%)	92	94
1	6	455/630 (72%)	454 (100%)	1 (0%)	92	94
1	7	455/630 (72%)	454 (100%)	1 (0%)	92	94
1	8	455/630 (72%)	454 (100%)	1 (0%)	92	94
1	A	455/630 (72%)	454 (100%)	1 (0%)	92	94
1	B	455/630 (72%)	454 (100%)	1 (0%)	92	94
1	C	455/630 (72%)	454 (100%)	1 (0%)	92	94
1	D	455/630 (72%)	454 (100%)	1 (0%)	92	94
1	E	455/630 (72%)	454 (100%)	1 (0%)	92	94
1	F	455/630 (72%)	454 (100%)	1 (0%)	92	94
1	G	455/630 (72%)	454 (100%)	1 (0%)	92	94
1	H	455/630 (72%)	454 (100%)	1 (0%)	92	94
1	I	455/630 (72%)	454 (100%)	1 (0%)	92	94
1	J	455/630 (72%)	454 (100%)	1 (0%)	92	94
1	K	455/630 (72%)	454 (100%)	1 (0%)	92	94
1	L	455/630 (72%)	454 (100%)	1 (0%)	92	94
1	M	455/630 (72%)	454 (100%)	1 (0%)	92	94
1	N	455/630 (72%)	454 (100%)	1 (0%)	92	94
1	O	455/630 (72%)	454 (100%)	1 (0%)	92	94
1	P	455/630 (72%)	454 (100%)	1 (0%)	92	94
1	Q	455/630 (72%)	454 (100%)	1 (0%)	92	94
1	R	455/630 (72%)	454 (100%)	1 (0%)	92	94

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
1	S	455/630 (72%)	454 (100%)	1 (0%)	92	94
1	T	455/630 (72%)	454 (100%)	1 (0%)	92	94
1	U	455/630 (72%)	454 (100%)	1 (0%)	92	94
1	V	455/630 (72%)	454 (100%)	1 (0%)	92	94
1	W	455/630 (72%)	454 (100%)	1 (0%)	92	94
1	X	455/630 (72%)	454 (100%)	1 (0%)	92	94
1	Y	455/630 (72%)	454 (100%)	1 (0%)	92	94
1	Z	455/630 (72%)	454 (100%)	1 (0%)	92	94
1	a	455/630 (72%)	454 (100%)	1 (0%)	92	94
1	b	455/630 (72%)	454 (100%)	1 (0%)	92	94
1	c	455/630 (72%)	454 (100%)	1 (0%)	92	94
1	d	455/630 (72%)	454 (100%)	1 (0%)	92	94
1	e	455/630 (72%)	454 (100%)	1 (0%)	92	94
1	f	455/630 (72%)	454 (100%)	1 (0%)	92	94
1	g	455/630 (72%)	454 (100%)	1 (0%)	92	94
1	h	455/630 (72%)	454 (100%)	1 (0%)	92	94
1	i	455/630 (72%)	454 (100%)	1 (0%)	92	94
1	j	455/630 (72%)	454 (100%)	1 (0%)	92	94
1	k	455/630 (72%)	454 (100%)	1 (0%)	92	94
1	l	455/630 (72%)	454 (100%)	1 (0%)	92	94
1	m	455/630 (72%)	454 (100%)	1 (0%)	92	94
1	n	455/630 (72%)	454 (100%)	1 (0%)	92	94
1	o	455/630 (72%)	454 (100%)	1 (0%)	92	94
1	p	455/630 (72%)	454 (100%)	1 (0%)	92	94
1	q	455/630 (72%)	454 (100%)	1 (0%)	92	94
1	r	455/630 (72%)	454 (100%)	1 (0%)	92	94
1	s	455/630 (72%)	454 (100%)	1 (0%)	92	94
1	t	455/630 (72%)	454 (100%)	1 (0%)	92	94
1	u	455/630 (72%)	454 (100%)	1 (0%)	92	94
1	v	455/630 (72%)	454 (100%)	1 (0%)	92	94
1	w	455/630 (72%)	454 (100%)	1 (0%)	92	94

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
1	x	455/630 (72%)	454 (100%)	1 (0%)	92	94
1	y	455/630 (72%)	454 (100%)	1 (0%)	92	94
1	z	455/630 (72%)	454 (100%)	1 (0%)	92	94
All	All	27300/37800 (72%)	27240 (100%)	60 (0%)	91	94

All (60) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	452	THR
1	B	452	THR
1	C	452	THR
1	D	452	THR
1	E	452	THR
1	F	452	THR
1	G	452	THR
1	H	452	THR
1	I	452	THR
1	J	452	THR
1	K	452	THR
1	L	452	THR
1	M	452	THR
1	N	452	THR
1	O	452	THR
1	P	452	THR
1	Q	452	THR
1	R	452	THR
1	S	452	THR
1	T	452	THR
1	U	452	THR
1	V	452	THR
1	W	452	THR
1	X	452	THR
1	Y	452	THR
1	Z	452	THR
1	a	452	THR
1	b	452	THR
1	c	452	THR
1	d	452	THR
1	e	452	THR
1	f	452	THR
1	g	452	THR

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Mol	Chain	Res	Type
1	h	452	THR
1	i	452	THR
1	j	452	THR
1	k	452	THR
1	l	452	THR
1	m	452	THR
1	n	452	THR
1	o	452	THR
1	p	452	THR
1	q	452	THR
1	r	452	THR
1	s	452	THR
1	t	452	THR
1	u	452	THR
1	v	452	THR
1	w	452	THR
1	x	452	THR
1	y	452	THR
1	z	452	THR
1	1	452	THR
1	2	452	THR
1	3	452	THR
1	4	452	THR
1	5	452	THR
1	6	452	THR
1	7	452	THR
1	8	452	THR

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (610) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	325	GLN
1	A	449	ASN
1	A	457	GLN
1	A	485	GLN
1	A	497	ASN
1	A	551	ASN
1	A	598	GLN
1	A	650	ASN
1	A	717	ASN
1	B	325	GLN
1	B	449	ASN

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Mol	Chain	Res	Type
1	B	457	GLN
1	B	485	GLN
1	B	497	ASN
1	B	551	ASN
1	B	598	GLN
1	B	650	ASN
1	B	717	ASN
1	C	254	ASN
1	C	325	GLN
1	C	449	ASN
1	C	457	GLN
1	C	485	GLN
1	C	497	ASN
1	C	551	ASN
1	C	598	GLN
1	C	650	ASN
1	C	717	ASN
1	D	254	ASN
1	D	259	GLN
1	D	325	GLN
1	D	449	ASN
1	D	457	GLN
1	D	485	GLN
1	D	497	ASN
1	D	551	ASN
1	D	598	GLN
1	D	650	ASN
1	D	690	ASN
1	D	717	ASN
1	E	254	ASN
1	E	259	GLN
1	E	325	GLN
1	E	449	ASN
1	E	457	GLN
1	E	485	GLN
1	E	497	ASN
1	E	598	GLN
1	E	650	ASN
1	E	690	ASN
1	E	717	ASN
1	F	259	GLN
1	F	325	GLN

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Mol	Chain	Res	Type
1	F	449	ASN
1	F	457	GLN
1	F	485	GLN
1	F	497	ASN
1	F	551	ASN
1	F	598	GLN
1	F	650	ASN
1	F	690	ASN
1	F	717	ASN
1	G	325	GLN
1	G	449	ASN
1	G	457	GLN
1	G	485	GLN
1	G	497	ASN
1	G	598	GLN
1	G	650	ASN
1	G	690	ASN
1	G	717	ASN
1	H	325	GLN
1	H	449	ASN
1	H	457	GLN
1	H	485	GLN
1	H	497	ASN
1	H	551	ASN
1	H	598	GLN
1	H	650	ASN
1	H	690	ASN
1	H	717	ASN
1	I	254	ASN
1	I	325	GLN
1	I	449	ASN
1	I	457	GLN
1	I	485	GLN
1	I	497	ASN
1	I	551	ASN
1	I	598	GLN
1	I	650	ASN
1	I	690	ASN
1	I	717	ASN
1	J	259	GLN
1	J	325	GLN
1	J	449	ASN

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Mol	Chain	Res	Type
1	J	457	GLN
1	J	485	GLN
1	J	497	ASN
1	J	551	ASN
1	J	598	GLN
1	J	650	ASN
1	J	690	ASN
1	J	717	ASN
1	K	254	ASN
1	K	259	GLN
1	K	325	GLN
1	K	449	ASN
1	K	457	GLN
1	K	485	GLN
1	K	497	ASN
1	K	551	ASN
1	K	598	GLN
1	K	650	ASN
1	K	690	ASN
1	K	717	ASN
1	L	254	ASN
1	L	259	GLN
1	L	325	GLN
1	L	449	ASN
1	L	457	GLN
1	L	485	GLN
1	L	497	ASN
1	L	551	ASN
1	L	598	GLN
1	L	650	ASN
1	L	690	ASN
1	L	717	ASN
1	M	259	GLN
1	M	325	GLN
1	M	449	ASN
1	M	457	GLN
1	M	485	GLN
1	M	497	ASN
1	M	551	ASN
1	M	598	GLN
1	M	650	ASN
1	M	690	ASN

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Mol	Chain	Res	Type
1	M	717	ASN
1	N	254	ASN
1	N	325	GLN
1	N	449	ASN
1	N	457	GLN
1	N	485	GLN
1	N	497	ASN
1	N	598	GLN
1	N	650	ASN
1	N	690	ASN
1	N	717	ASN
1	O	254	ASN
1	O	259	GLN
1	O	325	GLN
1	O	449	ASN
1	O	457	GLN
1	O	485	GLN
1	O	497	ASN
1	O	598	GLN
1	O	650	ASN
1	O	717	ASN
1	P	259	GLN
1	P	325	GLN
1	P	449	ASN
1	P	457	GLN
1	P	485	GLN
1	P	497	ASN
1	P	551	ASN
1	P	598	GLN
1	P	650	ASN
1	P	690	ASN
1	P	717	ASN
1	Q	254	ASN
1	Q	325	GLN
1	Q	449	ASN
1	Q	457	GLN
1	Q	485	GLN
1	Q	497	ASN
1	Q	598	GLN
1	Q	650	ASN
1	Q	690	ASN
1	Q	717	ASN

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Mol	Chain	Res	Type
1	R	254	ASN
1	R	325	GLN
1	R	449	ASN
1	R	457	GLN
1	R	485	GLN
1	R	497	ASN
1	R	598	GLN
1	R	650	ASN
1	R	690	ASN
1	R	717	ASN
1	S	254	ASN
1	S	325	GLN
1	S	449	ASN
1	S	457	GLN
1	S	485	GLN
1	S	497	ASN
1	S	598	GLN
1	S	650	ASN
1	S	690	ASN
1	S	717	ASN
1	T	259	GLN
1	T	325	GLN
1	T	449	ASN
1	T	457	GLN
1	T	485	GLN
1	T	497	ASN
1	T	598	GLN
1	T	650	ASN
1	T	690	ASN
1	T	717	ASN
1	U	325	GLN
1	U	449	ASN
1	U	457	GLN
1	U	485	GLN
1	U	497	ASN
1	U	551	ASN
1	U	598	GLN
1	U	650	ASN
1	U	690	ASN
1	U	717	ASN
1	V	325	GLN
1	V	449	ASN

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Mol	Chain	Res	Type
1	V	457	GLN
1	V	485	GLN
1	V	497	ASN
1	V	551	ASN
1	V	598	GLN
1	V	650	ASN
1	V	690	ASN
1	V	717	ASN
1	W	254	ASN
1	W	325	GLN
1	W	449	ASN
1	W	457	GLN
1	W	485	GLN
1	W	497	ASN
1	W	551	ASN
1	W	598	GLN
1	W	650	ASN
1	W	690	ASN
1	W	717	ASN
1	X	254	ASN
1	X	259	GLN
1	X	325	GLN
1	X	449	ASN
1	X	457	GLN
1	X	485	GLN
1	X	497	ASN
1	X	598	GLN
1	X	650	ASN
1	X	690	ASN
1	X	717	ASN
1	Y	325	GLN
1	Y	449	ASN
1	Y	457	GLN
1	Y	485	GLN
1	Y	497	ASN
1	Y	551	ASN
1	Y	598	GLN
1	Y	650	ASN
1	Y	690	ASN
1	Y	717	ASN
1	Z	254	ASN
1	Z	259	GLN

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Mol	Chain	Res	Type
1	Z	325	GLN
1	Z	449	ASN
1	Z	457	GLN
1	Z	485	GLN
1	Z	497	ASN
1	Z	551	ASN
1	Z	598	GLN
1	Z	650	ASN
1	Z	690	ASN
1	Z	717	ASN
1	a	254	ASN
1	a	325	GLN
1	a	449	ASN
1	a	457	GLN
1	a	485	GLN
1	a	497	ASN
1	a	598	GLN
1	a	650	ASN
1	a	690	ASN
1	a	717	ASN
1	b	254	ASN
1	b	325	GLN
1	b	449	ASN
1	b	457	GLN
1	b	485	GLN
1	b	497	ASN
1	b	551	ASN
1	b	598	GLN
1	b	650	ASN
1	b	717	ASN
1	c	254	ASN
1	c	325	GLN
1	c	449	ASN
1	c	457	GLN
1	c	485	GLN
1	c	497	ASN
1	c	598	GLN
1	c	650	ASN
1	c	690	ASN
1	c	717	ASN
1	d	254	ASN
1	d	325	GLN

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Mol	Chain	Res	Type
1	d	449	ASN
1	d	457	GLN
1	d	485	GLN
1	d	497	ASN
1	d	598	GLN
1	d	650	ASN
1	d	717	ASN
1	e	254	ASN
1	e	325	GLN
1	e	449	ASN
1	e	457	GLN
1	e	485	GLN
1	e	497	ASN
1	e	598	GLN
1	e	650	ASN
1	e	690	ASN
1	e	717	ASN
1	f	325	GLN
1	f	449	ASN
1	f	457	GLN
1	f	485	GLN
1	f	497	ASN
1	f	598	GLN
1	f	650	ASN
1	f	690	ASN
1	f	717	ASN
1	g	254	ASN
1	g	259	GLN
1	g	325	GLN
1	g	457	GLN
1	g	485	GLN
1	g	497	ASN
1	g	551	ASN
1	g	598	GLN
1	g	650	ASN
1	g	690	ASN
1	g	717	ASN
1	h	254	ASN
1	h	325	GLN
1	h	449	ASN
1	h	457	GLN
1	h	485	GLN

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Mol	Chain	Res	Type
1	h	497	ASN
1	h	598	GLN
1	h	650	ASN
1	h	717	ASN
1	i	254	ASN
1	i	325	GLN
1	i	457	GLN
1	i	485	GLN
1	i	497	ASN
1	i	551	ASN
1	i	598	GLN
1	i	650	ASN
1	i	690	ASN
1	i	717	ASN
1	j	325	GLN
1	j	449	ASN
1	j	457	GLN
1	j	485	GLN
1	j	497	ASN
1	j	598	GLN
1	j	650	ASN
1	j	690	ASN
1	j	717	ASN
1	k	254	ASN
1	k	325	GLN
1	k	449	ASN
1	k	457	GLN
1	k	485	GLN
1	k	497	ASN
1	k	598	GLN
1	k	650	ASN
1	k	690	ASN
1	k	717	ASN
1	l	259	GLN
1	l	325	GLN
1	l	457	GLN
1	l	485	GLN
1	l	497	ASN
1	l	551	ASN
1	l	598	GLN
1	l	650	ASN
1	l	717	ASN

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Mol	Chain	Res	Type
1	m	254	ASN
1	m	259	GLN
1	m	325	GLN
1	m	449	ASN
1	m	457	GLN
1	m	485	GLN
1	m	497	ASN
1	m	551	ASN
1	m	598	GLN
1	m	650	ASN
1	m	690	ASN
1	m	717	ASN
1	n	254	ASN
1	n	259	GLN
1	n	325	GLN
1	n	457	GLN
1	n	485	GLN
1	n	497	ASN
1	n	598	GLN
1	n	650	ASN
1	n	690	ASN
1	n	717	ASN
1	o	325	GLN
1	o	449	ASN
1	o	457	GLN
1	o	485	GLN
1	o	497	ASN
1	o	598	GLN
1	o	650	ASN
1	o	717	ASN
1	p	325	GLN
1	p	457	GLN
1	p	485	GLN
1	p	497	ASN
1	p	598	GLN
1	p	650	ASN
1	p	690	ASN
1	p	717	ASN
1	q	254	ASN
1	q	259	GLN
1	q	325	GLN
1	q	449	ASN

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Mol	Chain	Res	Type
1	q	457	GLN
1	q	485	GLN
1	q	497	ASN
1	q	551	ASN
1	q	598	GLN
1	q	650	ASN
1	q	690	ASN
1	q	717	ASN
1	r	325	GLN
1	r	449	ASN
1	r	457	GLN
1	r	485	GLN
1	r	497	ASN
1	r	551	ASN
1	r	598	GLN
1	r	650	ASN
1	r	690	ASN
1	r	717	ASN
1	s	259	GLN
1	s	325	GLN
1	s	449	ASN
1	s	457	GLN
1	s	485	GLN
1	s	497	ASN
1	s	551	ASN
1	s	598	GLN
1	s	650	ASN
1	s	690	ASN
1	s	717	ASN
1	t	254	ASN
1	t	325	GLN
1	t	449	ASN
1	t	457	GLN
1	t	485	GLN
1	t	497	ASN
1	t	598	GLN
1	t	650	ASN
1	t	690	ASN
1	t	717	ASN
1	u	254	ASN
1	u	325	GLN
1	u	457	GLN

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Mol	Chain	Res	Type
1	u	485	GLN
1	u	497	ASN
1	u	551	ASN
1	u	598	GLN
1	u	650	ASN
1	u	690	ASN
1	u	717	ASN
1	v	259	GLN
1	v	325	GLN
1	v	449	ASN
1	v	457	GLN
1	v	485	GLN
1	v	497	ASN
1	v	551	ASN
1	v	598	GLN
1	v	650	ASN
1	v	690	ASN
1	v	717	ASN
1	w	254	ASN
1	w	325	GLN
1	w	449	ASN
1	w	457	GLN
1	w	485	GLN
1	w	497	ASN
1	w	598	GLN
1	w	650	ASN
1	w	690	ASN
1	w	717	ASN
1	x	254	ASN
1	x	259	GLN
1	x	325	GLN
1	x	449	ASN
1	x	457	GLN
1	x	485	GLN
1	x	497	ASN
1	x	598	GLN
1	x	650	ASN
1	x	690	ASN
1	x	717	ASN
1	y	254	ASN
1	y	325	GLN
1	y	449	ASN

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Mol	Chain	Res	Type
1	y	457	GLN
1	y	485	GLN
1	y	497	ASN
1	y	551	ASN
1	y	598	GLN
1	y	650	ASN
1	y	717	ASN
1	z	325	GLN
1	z	457	GLN
1	z	485	GLN
1	z	497	ASN
1	z	551	ASN
1	z	598	GLN
1	z	650	ASN
1	z	690	ASN
1	z	717	ASN
1	1	325	GLN
1	1	449	ASN
1	1	457	GLN
1	1	485	GLN
1	1	497	ASN
1	1	598	GLN
1	1	650	ASN
1	1	690	ASN
1	1	717	ASN
1	2	254	ASN
1	2	325	GLN
1	2	449	ASN
1	2	457	GLN
1	2	485	GLN
1	2	497	ASN
1	2	598	GLN
1	2	650	ASN
1	2	717	ASN
1	3	254	ASN
1	3	259	GLN
1	3	325	GLN
1	3	449	ASN
1	3	457	GLN
1	3	485	GLN
1	3	497	ASN
1	3	598	GLN

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Mol	Chain	Res	Type
1	3	650	ASN
1	3	717	ASN
1	4	259	GLN
1	4	325	GLN
1	4	449	ASN
1	4	457	GLN
1	4	485	GLN
1	4	497	ASN
1	4	598	GLN
1	4	650	ASN
1	4	690	ASN
1	4	717	ASN
1	5	254	ASN
1	5	325	GLN
1	5	449	ASN
1	5	457	GLN
1	5	485	GLN
1	5	497	ASN
1	5	598	GLN
1	5	650	ASN
1	5	690	ASN
1	5	717	ASN
1	6	259	GLN
1	6	325	GLN
1	6	449	ASN
1	6	457	GLN
1	6	485	GLN
1	6	497	ASN
1	6	598	GLN
1	6	650	ASN
1	6	690	ASN
1	6	717	ASN
1	7	254	ASN
1	7	259	GLN
1	7	325	GLN
1	7	449	ASN
1	7	457	GLN
1	7	485	GLN
1	7	497	ASN
1	7	598	GLN
1	7	650	ASN
1	7	690	ASN

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Mol	Chain	Res	Type
1	7	717	ASN
1	8	259	GLN
1	8	325	GLN
1	8	449	ASN
1	8	457	GLN
1	8	485	GLN
1	8	497	ASN
1	8	551	ASN
1	8	598	GLN
1	8	650	ASN
1	8	717	ASN

5.3.3 RNA [i](#)

There are no RNA molecules in this entry.

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

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

5.5 Carbohydrates [i](#)

There are no oligosaccharides in this entry.

5.6 Ligand geometry [i](#)

There are no ligands in this entry.

5.7 Other polymers [i](#)

There are no such residues in this entry.

5.8 Polymer linkage issues [i](#)

There are no chain breaks in this entry.

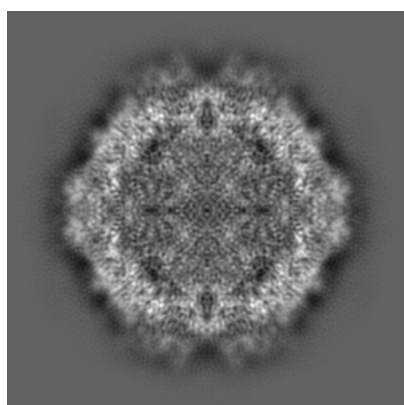
6 Map visualisation [i](#)

This section contains visualisations of the EMDB entry EMD-8099. These allow visual inspection of the internal detail of the map and identification of artifacts.

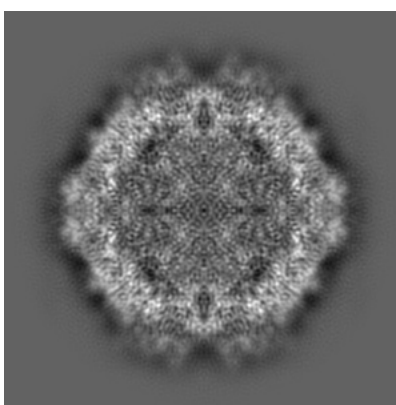
No raw map or half-maps were deposited for this entry and therefore no images, graphs, etc. pertaining to the raw map can be shown.

6.1 Orthogonal projections [i](#)

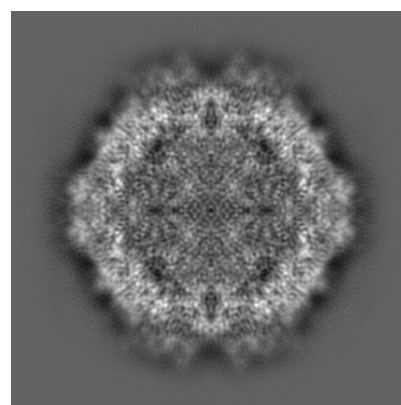
6.1.1 Primary map



X



Y

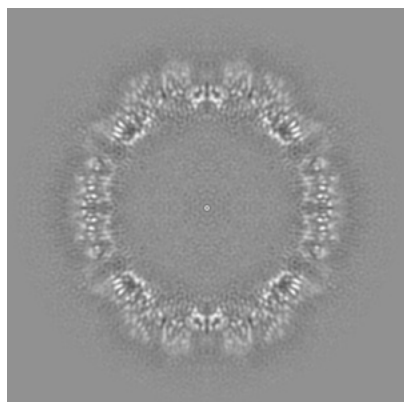


Z

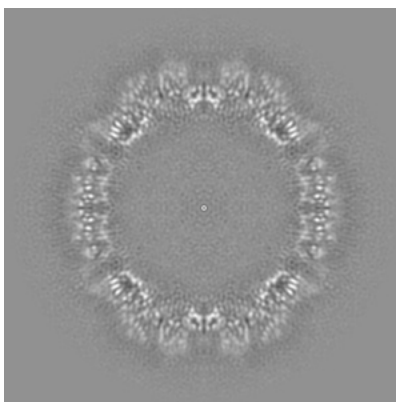
The images above show the map projected in three orthogonal directions.

6.2 Central slices [i](#)

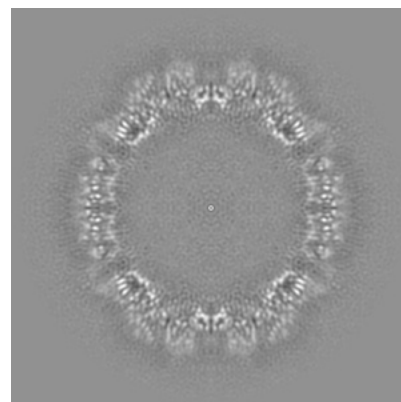
6.2.1 Primary map



X Index: 164



Y Index: 164

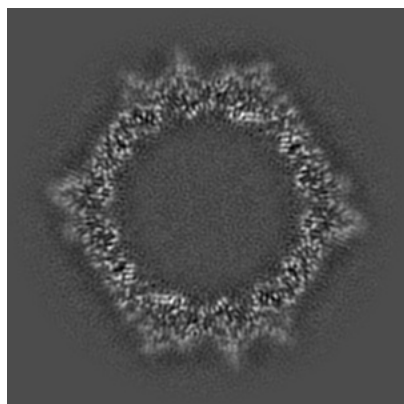


Z Index: 164

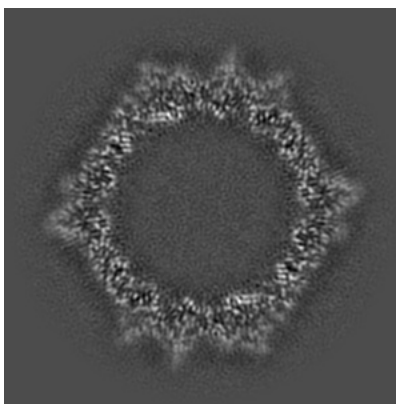
The images above show central slices of the map in three orthogonal directions.

6.3 Largest variance slices [i](#)

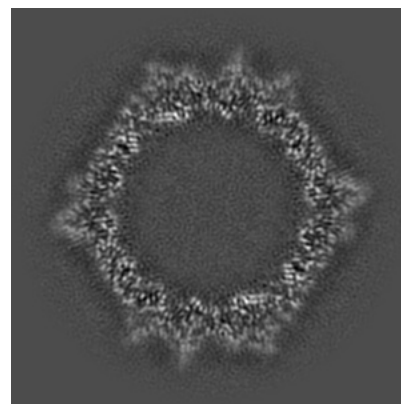
6.3.1 Primary map



X Index: 183



Y Index: 145

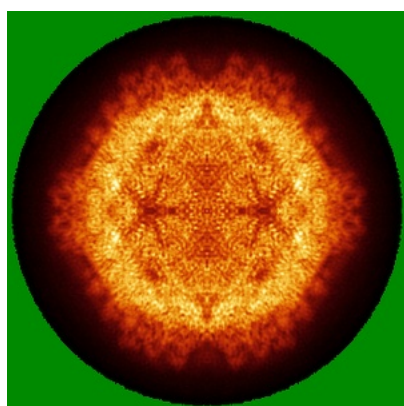


Z Index: 145

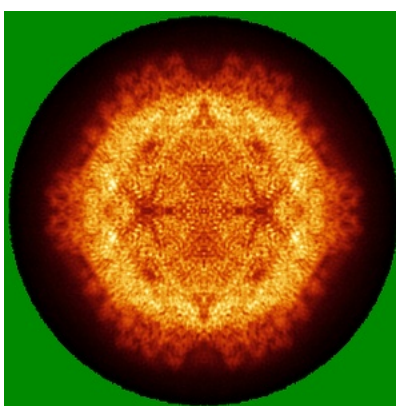
The images above show the largest variance slices of the map in three orthogonal directions.

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

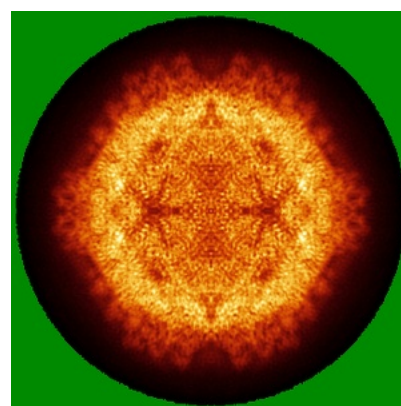
6.4.1 Primary map



X



Y

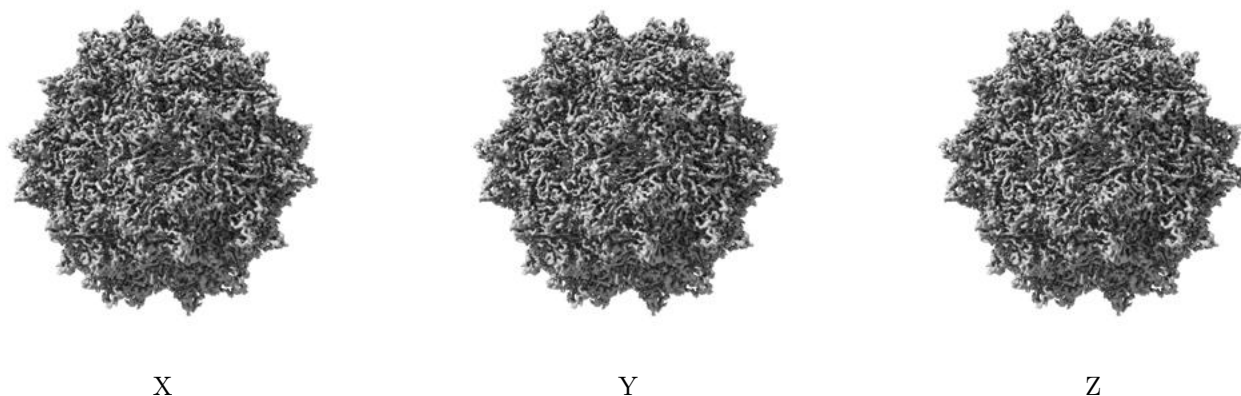


Z

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

6.5 Orthogonal surface views [i](#)

6.5.1 Primary map



The images above show the 3D surface view of the map at the recommended contour level 2.9. These images, in conjunction with the slice images, may facilitate assessment of whether an appropriate contour level has been provided.

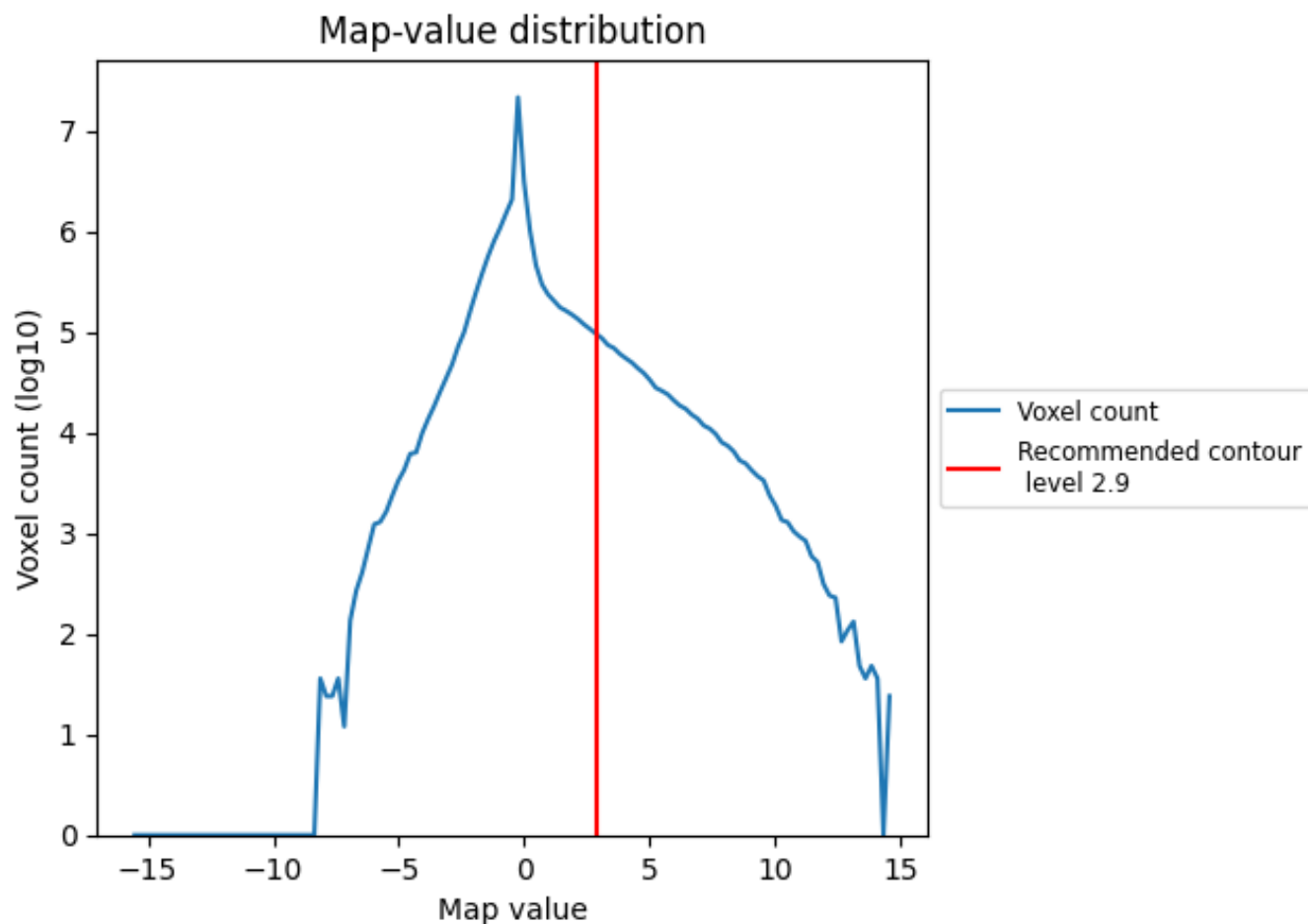
6.6 Mask visualisation [i](#)

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

7 Map analysis [i](#)

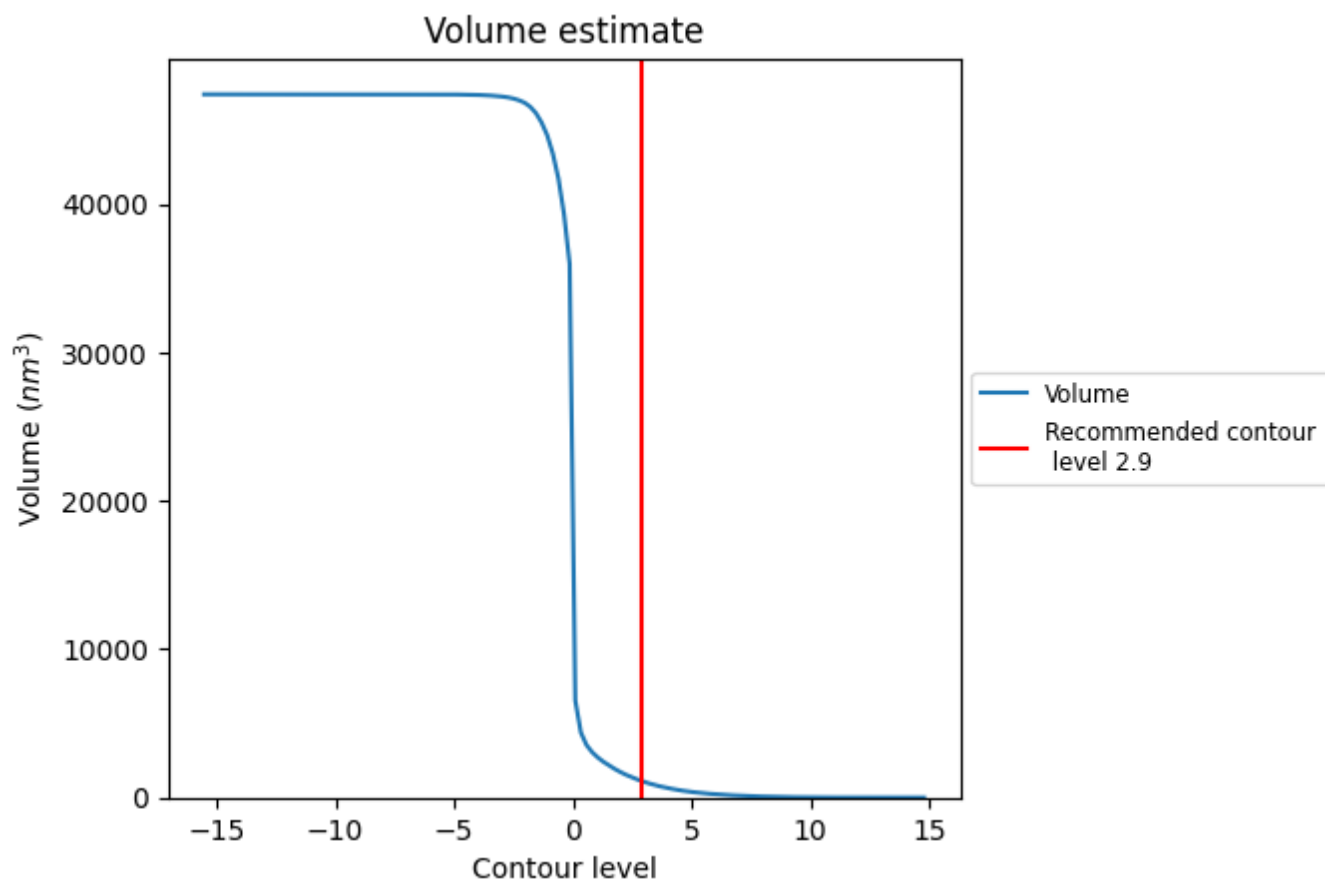
This section contains the results of statistical analysis of the map.

7.1 Map-value distribution [i](#)



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

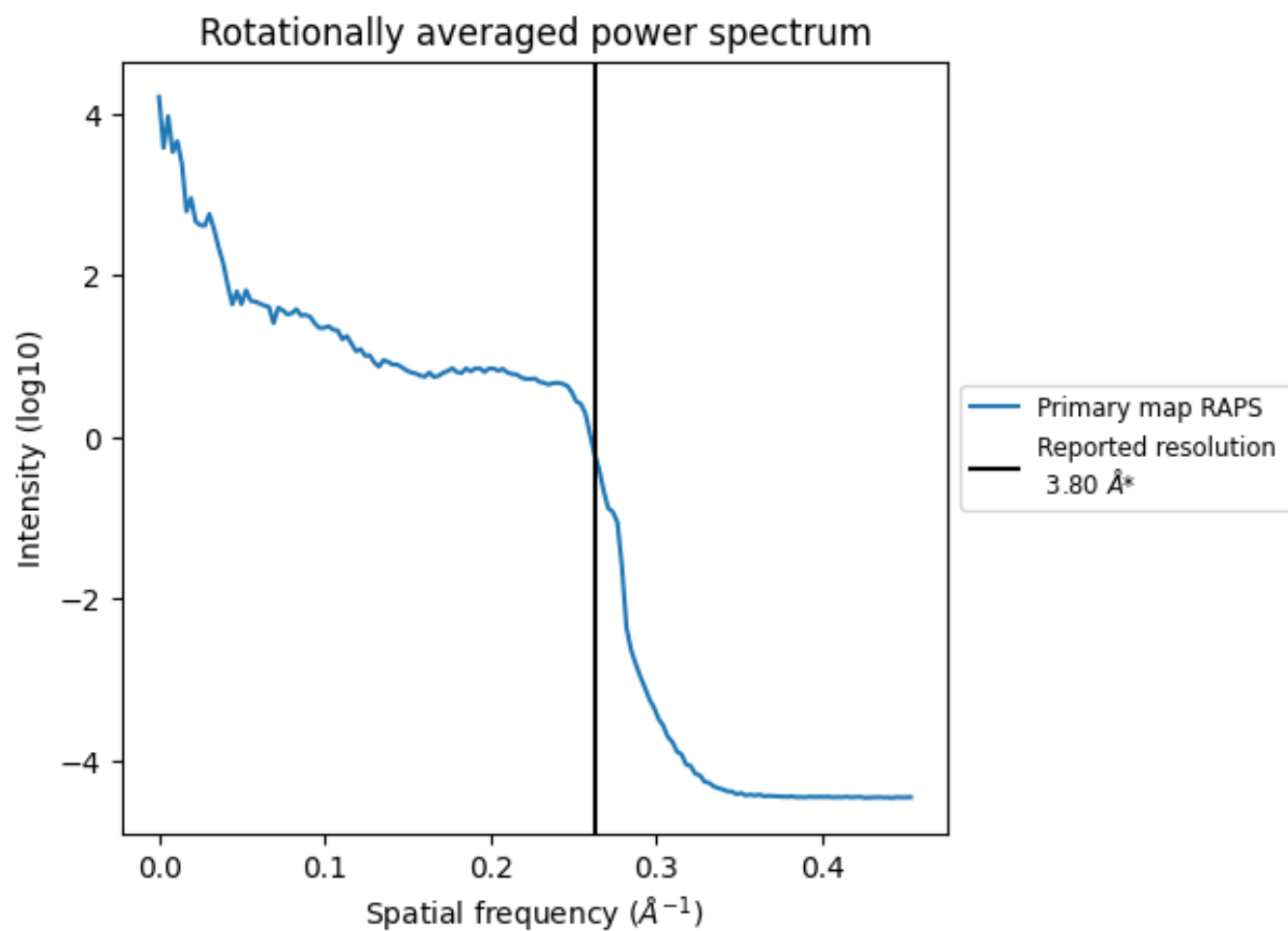
7.2 Volume estimate [i](#)



The volume at the recommended contour level is 1115 nm³; this corresponds to an approximate mass of 1007 kDa.

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

7.3 Rotationally averaged power spectrum ⓘ



*Reported resolution corresponds to spatial frequency of 0.263 Å⁻¹

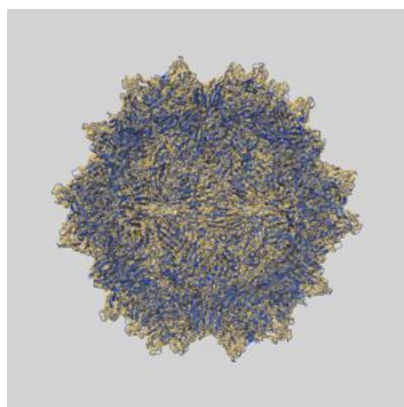
8 Fourier-Shell correlation

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

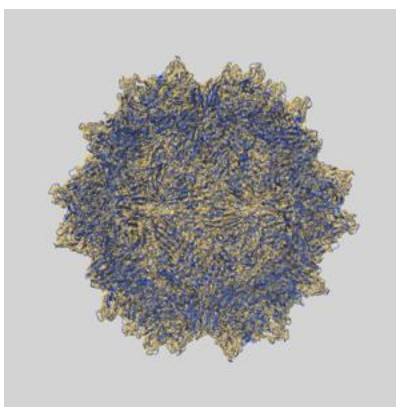
9 Map-model fit [i](#)

This section contains information regarding the fit between EMDB map EMD-8099 and PDB model 5IPI. Per-residue inclusion information can be found in section [3](#) on page [11](#).

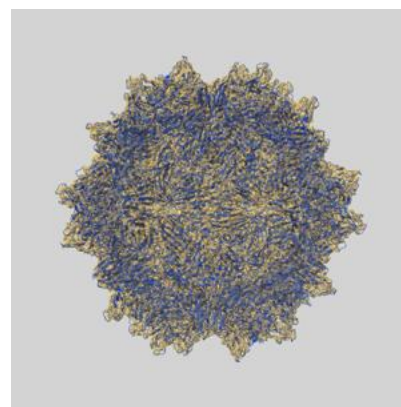
9.1 Map-model overlay [i](#)



X



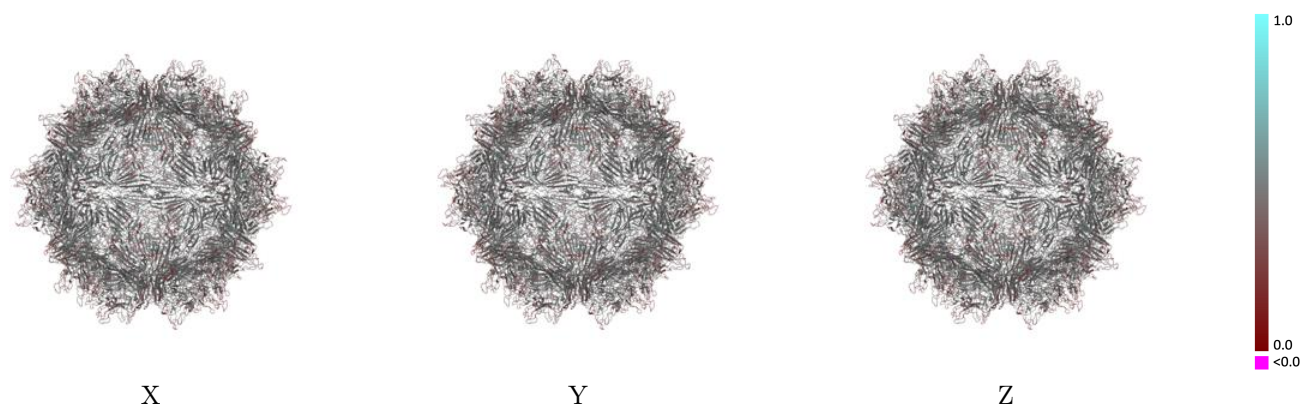
Y



Z

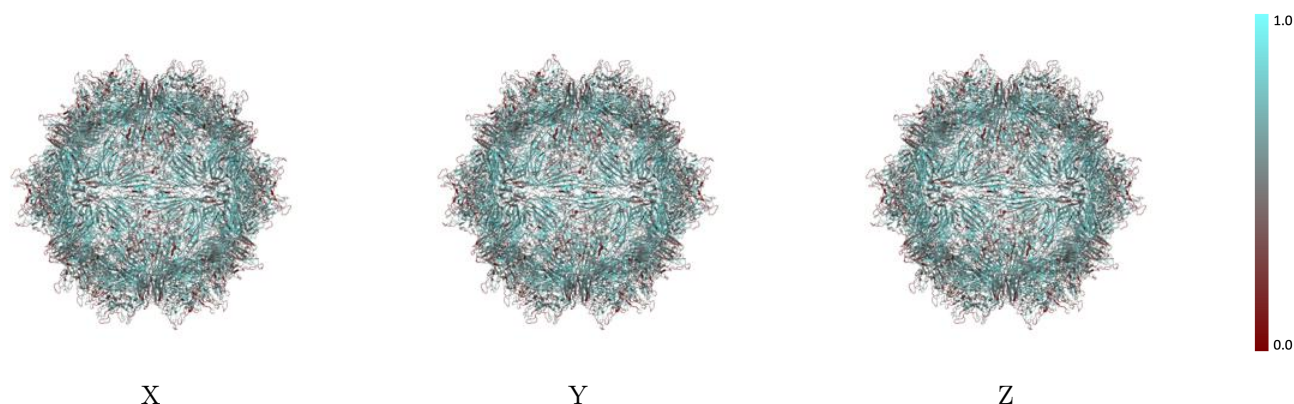
The images above show the 3D surface view of the map at the recommended contour level 2.9 at 50% transparency in yellow overlaid with a ribbon representation of the model coloured in blue. These images allow for the visual assessment of the quality of fit between the atomic model and the map.

9.2 Q-score mapped to coordinate model [i](#)



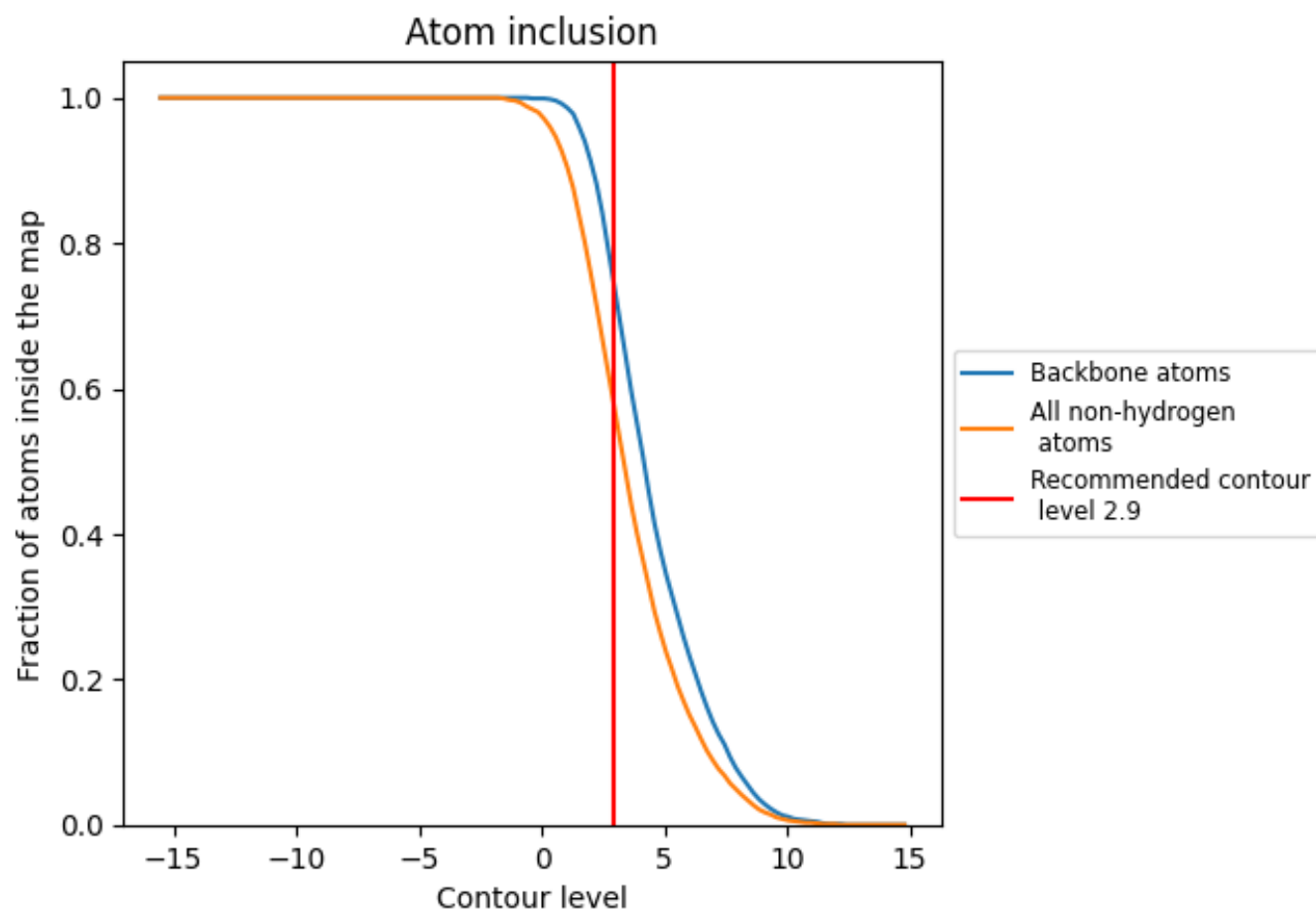
The images above show the model with each residue coloured according to its Q-score. This shows their resolvability in the map with higher Q-score values reflecting better resolvability. Please note: Q-score is calculating the resolvability of atoms, and thus high values are only expected at resolutions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

9.3 Atom inclusion mapped to coordinate model [i](#)



The images above show the model with each residue coloured according to its atom inclusion. This shows to what extent they are inside the map at the recommended contour level (2.9).

9.4 Atom inclusion [i](#)



At the recommended contour level, 75% of all backbone atoms, 58% of all non-hydrogen atoms, are inside the map.

9.5 Map-model fit summary ⓘ

The table lists the average atom inclusion at the recommended contour level (2.9) and Q-score for the entire model and for each chain.

Chain	Atom inclusion	Q-score
All	0.5850	0.4410
1	0.5860	0.4430
2	0.5850	0.4410
3	0.5860	0.4400
4	0.5840	0.4400
5	0.5840	0.4420
6	0.5840	0.4420
7	0.5860	0.4420
8	0.5860	0.4410
A	0.5860	0.4420
B	0.5840	0.4410
C	0.5860	0.4410
D	0.5830	0.4410
E	0.5860	0.4420
F	0.5850	0.4410
G	0.5860	0.4420
H	0.5840	0.4410
I	0.5860	0.4410
J	0.5860	0.4410
K	0.5840	0.4420
L	0.5850	0.4410
M	0.5860	0.4410
N	0.5840	0.4400
O	0.5860	0.4400
P	0.5840	0.4410
Q	0.5860	0.4400
R	0.5860	0.4410
S	0.5850	0.4410
T	0.5860	0.4410
U	0.5850	0.4420
V	0.5840	0.4410
W	0.5860	0.4410
X	0.5840	0.4410
Y	0.5850	0.4400
Z	0.5850	0.4390



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Chain	Atom inclusion	Q-score
a	 0.5840	 0.4390
b	 0.5840	 0.4410
c	 0.5860	 0.4420
d	 0.5860	 0.4410
e	 0.5840	 0.4420
f	 0.5860	 0.4420
g	 0.5840	 0.4420
h	 0.5850	 0.4410
i	 0.5840	 0.4420
j	 0.5860	 0.4410
k	 0.5860	 0.4410
l	 0.5860	 0.4420
m	 0.5850	 0.4390
n	 0.5830	 0.4400
o	 0.5860	 0.4420
p	 0.5850	 0.4420
q	 0.5860	 0.4400
r	 0.5850	 0.4390
s	 0.5830	 0.4410
t	 0.5860	 0.4420
u	 0.5840	 0.4420
v	 0.5870	 0.4400
w	 0.5840	 0.4410
x	 0.5840	 0.4400
y	 0.5830	 0.4410
z	 0.5870	 0.4430