Full wwPDB EM Validation Report

Mar 24, 2026 – 11:07 AM UTC

PDB ID	:	8FZN / pdb_00008fzn
EMDB ID	:	EMD-29636
Title	:	Cryo-EM Structure of AAV2-R404A Variant
Authors	:	Bennett, A.D.; McKenna, R.
Deposited on	:	2023-01-29
Resolution	:	3.62 Å(reported)

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

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

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

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

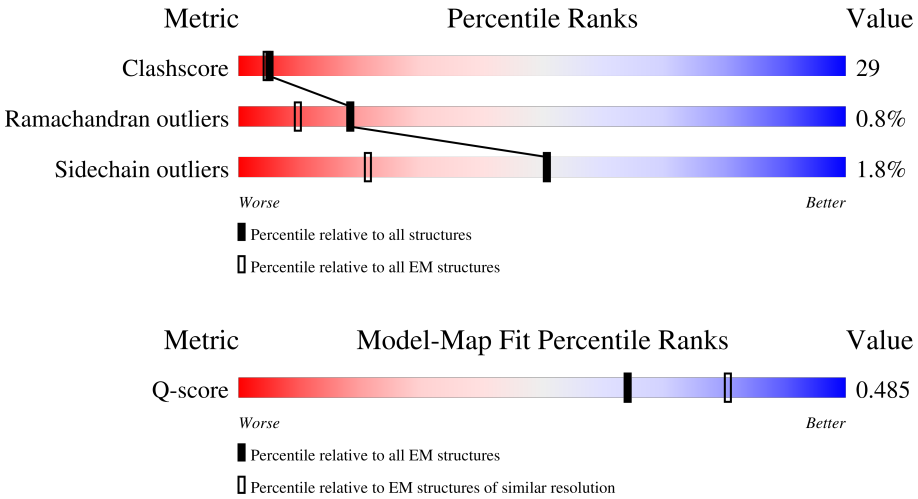
EMDB validation analysis	:	0.0.1.dev132
MolProbity	:	4-5-2 with Phenix2.0
Percentile statistics	:	20250101.v01 (using entries in the PDB archive January 1st 2025)
EM percentile statistics	:	202505.v01 (Using data in the EMDB archive up until May 2025)
MapQ	:	1.9.13
Ideal geometry (proteins)	:	Engh &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

1 Overall quality at a glance

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

The reported resolution of this entry is 3.62 Å.

Percentile scores (ranging between 0-100) for global validation metrics of the entry are shown in the following graphic. The table shows the number of entries on which the scores are based.



Metric	Whole archive (#Entries)	EM structures (#Entries)	Similar EM resolution (#Entries, resolution range(Å))
Clashscore	229148	23984	-
Ramachandran outliers	224038	23583	-
Sidechain outliers	223484	23102	-
Q-score	-	25397	11773 (3.12 - 4.12)

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

Mol	Chain	Length	Quality of chain
1	1	500	54% 43% .
1	2	500	55% 42% .
1	3	500	55% 43% .
1	4	500	55% 42% .

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Mol	Chain	Length	Quality of chain
1	5	500	54% 43%
1	6	500	55% 42%
1	7	500	54% 43%
1	8	500	54% 43%
1	A	500	55% 42%
1	B	500	54% 43%
1	C	500	55% 43%
1	D	500	55% 42%
1	E	500	54% 43%
1	F	500	54% 43%
1	G	500	54% 43%
1	H	500	55% 43%
1	I	500	54% 43%
1	J	500	55% 42%
1	K	500	55% 42%
1	L	500	55% 43%
1	M	500	55% 42%
1	N	500	55% 43%
1	O	500	55% 43%
1	P	500	55% 42%
1	Q	500	55% 43%
1	R	500	55% 43%
1	S	500	55% 43%
1	T	500	54% 44%
1	U	500	54% 43%

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Mol	Chain	Length	Quality of chain
1	V	500	55% 43%
1	W	500	55% 42%
1	X	500	54% 43%
1	Y	500	54% 43%
1	Z	500	55% 42%
1	a	500	54% 43%
1	b	500	55% 42%
1	c	500	55% 42%
1	d	500	55% 42%
1	e	500	55% 42%
1	f	500	55% 43%
1	g	500	54% 43%
1	h	500	55% 42%
1	i	500	55% 43%
1	j	500	55% 42%
1	k	500	55% 43%
1	l	500	55% 43%
1	m	500	54% 44%
1	n	500	55% 43%
1	o	500	54% 43%
1	p	500	54% 43%
1	q	500	55% 42%
1	r	500	54% 43%
1	s	500	54% 43%
1	t	500	54% 43%

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Mol	Chain	Length	Quality of chain
1	u	500	55% 43%
1	v	500	55% 42%
1	w	500	54% 43%
1	x	500	55% 43%
1	y	500	54% 43%
1	z	500	55% 43%

2 Entry composition (i)

There is only 1 type of molecule in this entry. The entry contains 240540 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	500	Total 4009	C 2528	N 697	O 773	S 11	0	0
1	B	500	Total 4009	C 2528	N 697	O 773	S 11	0	0
1	C	500	Total 4009	C 2528	N 697	O 773	S 11	0	0
1	D	500	Total 4009	C 2528	N 697	O 773	S 11	0	0
1	E	500	Total 4009	C 2528	N 697	O 773	S 11	0	0
1	F	500	Total 4009	C 2528	N 697	O 773	S 11	0	0
1	G	500	Total 4009	C 2528	N 697	O 773	S 11	0	0
1	H	500	Total 4009	C 2528	N 697	O 773	S 11	0	0
1	I	500	Total 4009	C 2528	N 697	O 773	S 11	0	0
1	J	500	Total 4009	C 2528	N 697	O 773	S 11	0	0
1	K	500	Total 4009	C 2528	N 697	O 773	S 11	0	0
1	L	500	Total 4009	C 2528	N 697	O 773	S 11	0	0
1	M	500	Total 4009	C 2528	N 697	O 773	S 11	0	0
1	N	500	Total 4009	C 2528	N 697	O 773	S 11	0	0
1	O	500	Total 4009	C 2528	N 697	O 773	S 11	0	0
1	P	500	Total 4009	C 2528	N 697	O 773	S 11	0	0
1	Q	500	Total 4009	C 2528	N 697	O 773	S 11	0	0

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Mol	Chain	Residues	Atoms					AltConf	Trace
1	R	500	Total	C	N	O	S	0	0
			4009	2528	697	773	11		
1	S	500	Total	C	N	O	S	0	0
			4009	2528	697	773	11		
1	T	500	Total	C	N	O	S	0	0
			4009	2528	697	773	11		
1	U	500	Total	C	N	O	S	0	0
			4009	2528	697	773	11		
1	V	500	Total	C	N	O	S	0	0
			4009	2528	697	773	11		
1	W	500	Total	C	N	O	S	0	0
			4009	2528	697	773	11		
1	X	500	Total	C	N	O	S	0	0
			4009	2528	697	773	11		
1	Y	500	Total	C	N	O	S	0	0
			4009	2528	697	773	11		
1	Z	500	Total	C	N	O	S	0	0
			4009	2528	697	773	11		
1	a	500	Total	C	N	O	S	0	0
			4009	2528	697	773	11		
1	b	500	Total	C	N	O	S	0	0
			4009	2528	697	773	11		
1	c	500	Total	C	N	O	S	0	0
			4009	2528	697	773	11		
1	d	500	Total	C	N	O	S	0	0
			4009	2528	697	773	11		
1	e	500	Total	C	N	O	S	0	0
			4009	2528	697	773	11		
1	f	500	Total	C	N	O	S	0	0
			4009	2528	697	773	11		
1	g	500	Total	C	N	O	S	0	0
			4009	2528	697	773	11		
1	h	500	Total	C	N	O	S	0	0
			4009	2528	697	773	11		
1	i	500	Total	C	N	O	S	0	0
			4009	2528	697	773	11		
1	j	500	Total	C	N	O	S	0	0
			4009	2528	697	773	11		
1	k	500	Total	C	N	O	S	0	0
			4009	2528	697	773	11		
1	l	500	Total	C	N	O	S	0	0
			4009	2528	697	773	11		

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Mol	Chain	Residues	Atoms					AltConf	Trace
1	m	500	Total	C	N	O	S	0	0
			4009	2528	697	773	11		
1	n	500	Total	C	N	O	S	0	0
			4009	2528	697	773	11		
1	o	500	Total	C	N	O	S	0	0
			4009	2528	697	773	11		
1	p	500	Total	C	N	O	S	0	0
			4009	2528	697	773	11		
1	q	500	Total	C	N	O	S	0	0
			4009	2528	697	773	11		
1	r	500	Total	C	N	O	S	0	0
			4009	2528	697	773	11		
1	s	500	Total	C	N	O	S	0	0
			4009	2528	697	773	11		
1	t	500	Total	C	N	O	S	0	0
			4009	2528	697	773	11		
1	u	500	Total	C	N	O	S	0	0
			4009	2528	697	773	11		
1	v	500	Total	C	N	O	S	0	0
			4009	2528	697	773	11		
1	w	500	Total	C	N	O	S	0	0
			4009	2528	697	773	11		
1	x	500	Total	C	N	O	S	0	0
			4009	2528	697	773	11		
1	y	500	Total	C	N	O	S	0	0
			4009	2528	697	773	11		
1	z	500	Total	C	N	O	S	0	0
			4009	2528	697	773	11		
1	1	500	Total	C	N	O	S	0	0
			4009	2528	697	773	11		
1	2	500	Total	C	N	O	S	0	0
			4009	2528	697	773	11		
1	3	500	Total	C	N	O	S	0	0
			4009	2528	697	773	11		
1	4	500	Total	C	N	O	S	0	0
			4009	2528	697	773	11		
1	5	500	Total	C	N	O	S	0	0
			4009	2528	697	773	11		
1	6	500	Total	C	N	O	S	0	0
			4009	2528	697	773	11		
1	7	500	Total	C	N	O	S	0	0
			4009	2528	697	773	11		

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Mol	Chain	Residues	Atoms					AltConf	Trace
1	8	500	Total	C	N	O	S	0	0
			4009	2528	697	773	11		

There are 60 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
A	404	ALA	ARG	conflict	UNP P03135
B	404	ALA	ARG	conflict	UNP P03135
C	404	ALA	ARG	conflict	UNP P03135
D	404	ALA	ARG	conflict	UNP P03135
E	404	ALA	ARG	conflict	UNP P03135
F	404	ALA	ARG	conflict	UNP P03135
G	404	ALA	ARG	conflict	UNP P03135
H	404	ALA	ARG	conflict	UNP P03135
I	404	ALA	ARG	conflict	UNP P03135
J	404	ALA	ARG	conflict	UNP P03135
K	404	ALA	ARG	conflict	UNP P03135
L	404	ALA	ARG	conflict	UNP P03135
M	404	ALA	ARG	conflict	UNP P03135
N	404	ALA	ARG	conflict	UNP P03135
O	404	ALA	ARG	conflict	UNP P03135
P	404	ALA	ARG	conflict	UNP P03135
Q	404	ALA	ARG	conflict	UNP P03135
R	404	ALA	ARG	conflict	UNP P03135
S	404	ALA	ARG	conflict	UNP P03135
T	404	ALA	ARG	conflict	UNP P03135
U	404	ALA	ARG	conflict	UNP P03135
V	404	ALA	ARG	conflict	UNP P03135
W	404	ALA	ARG	conflict	UNP P03135
X	404	ALA	ARG	conflict	UNP P03135
Y	404	ALA	ARG	conflict	UNP P03135
Z	404	ALA	ARG	conflict	UNP P03135
a	404	ALA	ARG	conflict	UNP P03135
b	404	ALA	ARG	conflict	UNP P03135
c	404	ALA	ARG	conflict	UNP P03135
d	404	ALA	ARG	conflict	UNP P03135
e	404	ALA	ARG	conflict	UNP P03135
f	404	ALA	ARG	conflict	UNP P03135
g	404	ALA	ARG	conflict	UNP P03135
h	404	ALA	ARG	conflict	UNP P03135
i	404	ALA	ARG	conflict	UNP P03135
j	404	ALA	ARG	conflict	UNP P03135

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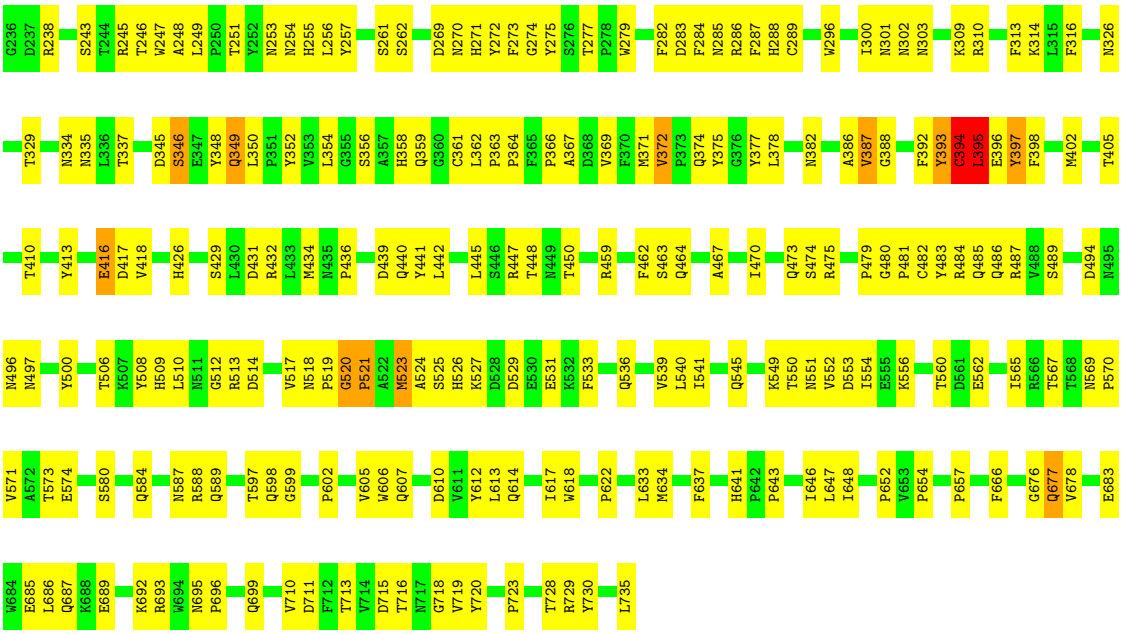
Chain	Residue	Modelled	Actual	Comment	Reference
k	404	ALA	ARG	conflict	UNP P03135
l	404	ALA	ARG	conflict	UNP P03135
m	404	ALA	ARG	conflict	UNP P03135
n	404	ALA	ARG	conflict	UNP P03135
o	404	ALA	ARG	conflict	UNP P03135
p	404	ALA	ARG	conflict	UNP P03135
q	404	ALA	ARG	conflict	UNP P03135
r	404	ALA	ARG	conflict	UNP P03135
s	404	ALA	ARG	conflict	UNP P03135
t	404	ALA	ARG	conflict	UNP P03135
u	404	ALA	ARG	conflict	UNP P03135
v	404	ALA	ARG	conflict	UNP P03135
w	404	ALA	ARG	conflict	UNP P03135
x	404	ALA	ARG	conflict	UNP P03135
y	404	ALA	ARG	conflict	UNP P03135
z	404	ALA	ARG	conflict	UNP P03135
1	404	ALA	ARG	conflict	UNP P03135
2	404	ALA	ARG	conflict	UNP P03135
3	404	ALA	ARG	conflict	UNP P03135
4	404	ALA	ARG	conflict	UNP P03135
5	404	ALA	ARG	conflict	UNP P03135
6	404	ALA	ARG	conflict	UNP P03135
7	404	ALA	ARG	conflict	UNP P03135
8	404	ALA	ARG	conflict	UNP P03135

3 Residue-property plots (i)

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

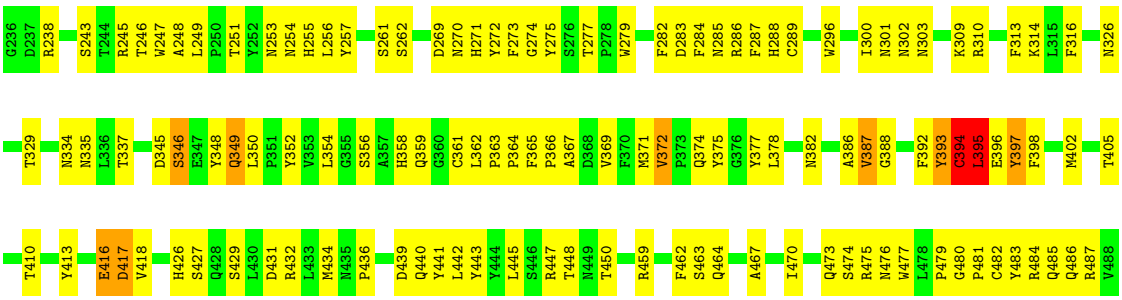
- Molecule 1: Capsid protein VP1

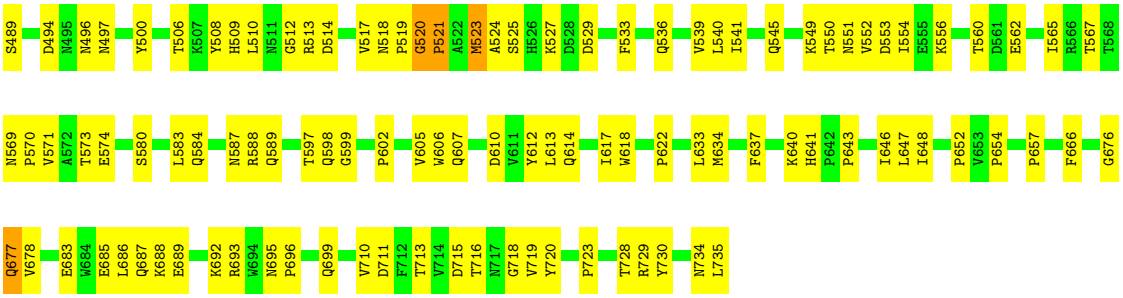
Chain A:



- Molecule 1: Capsid protein VP1

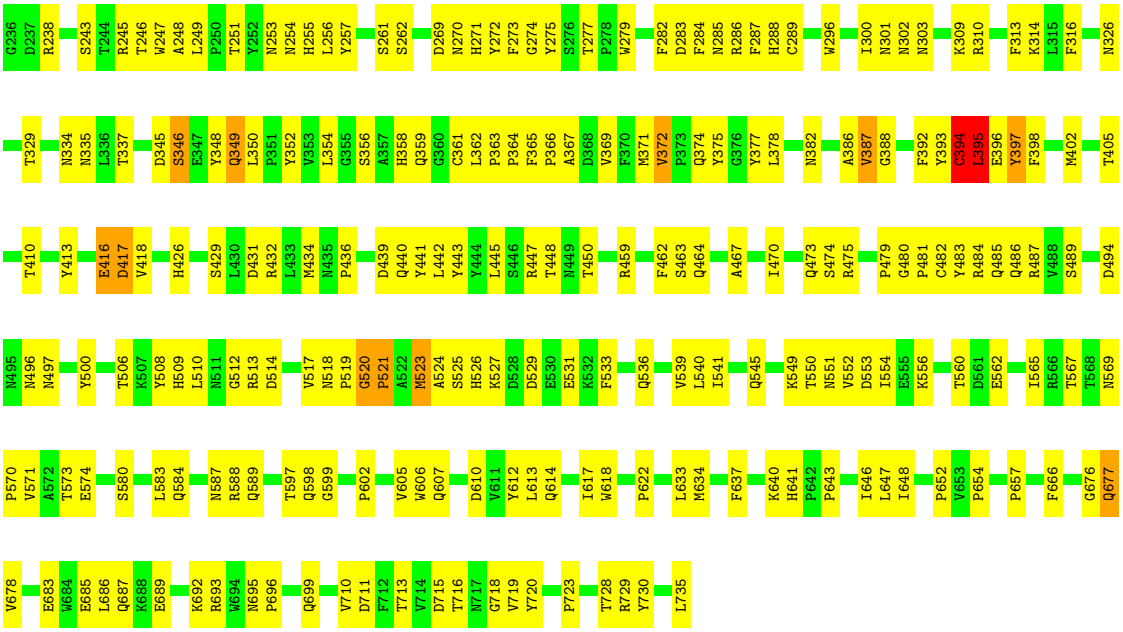
Chain B:





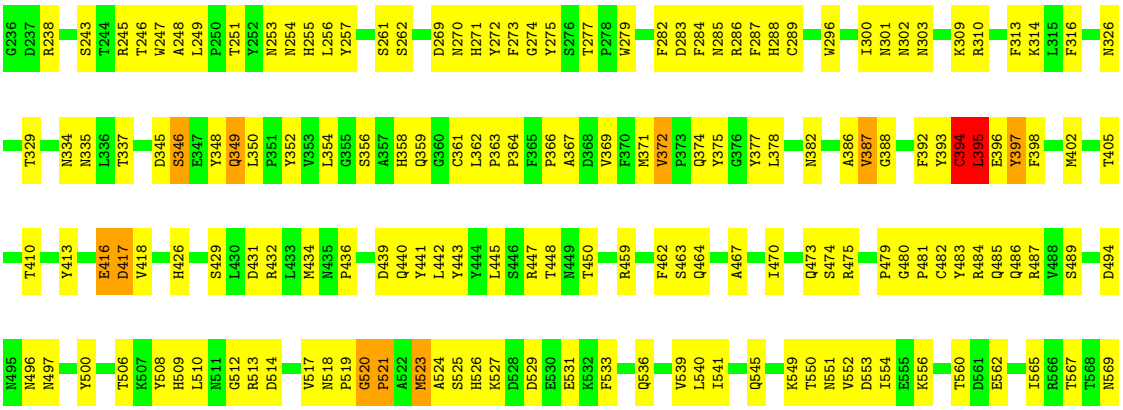
• Molecule 1: Capsid protein VP1

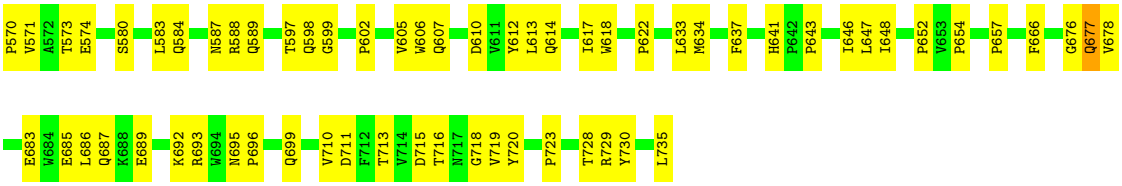
Chain C:



• Molecule 1: Capsid protein VP1

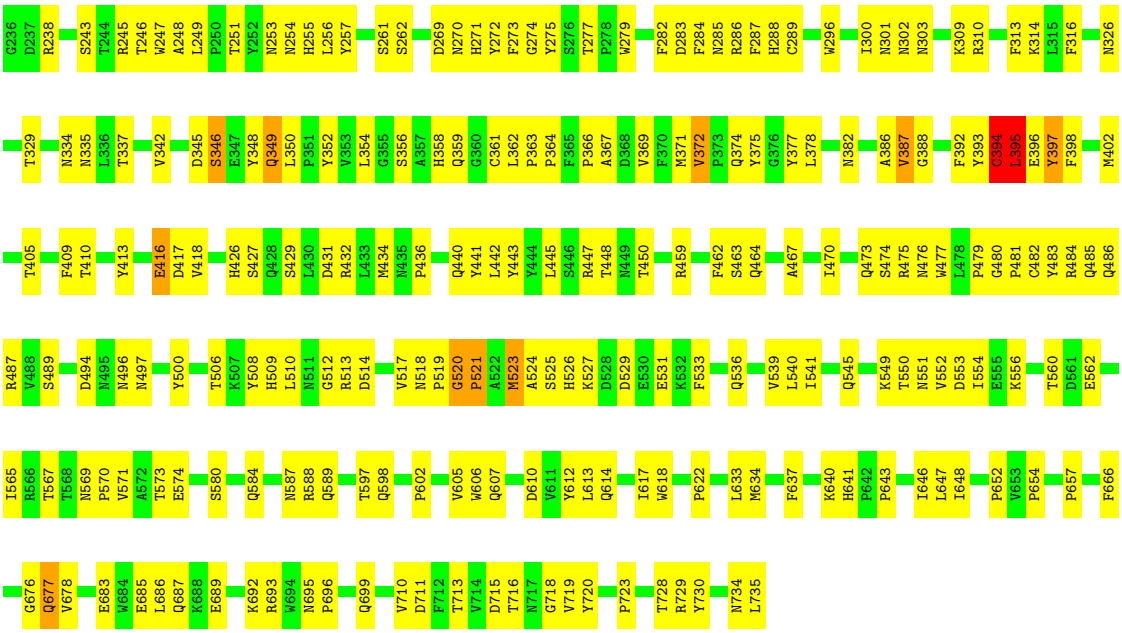
Chain D:





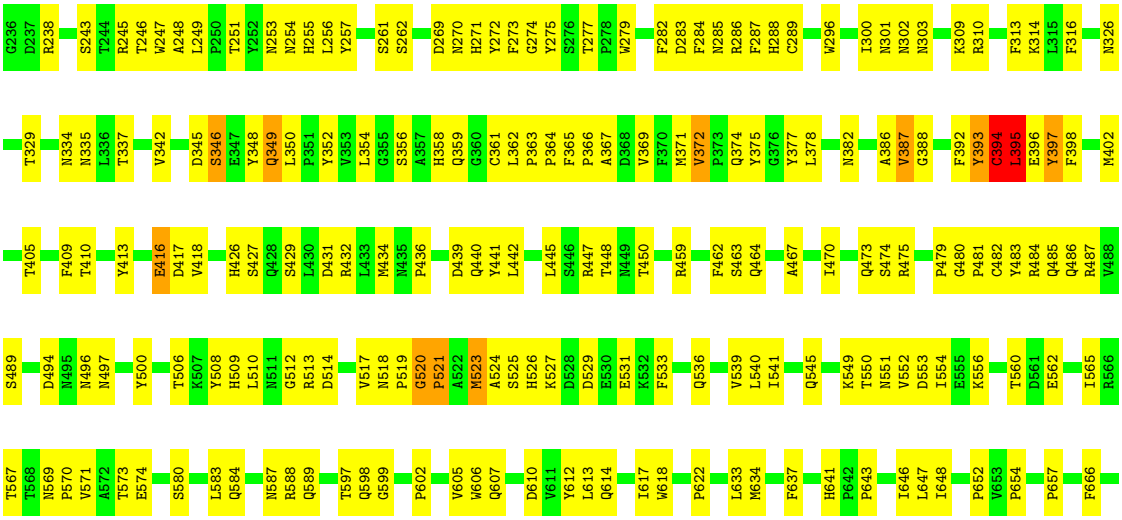
• Molecule 1: Capsid protein VP1

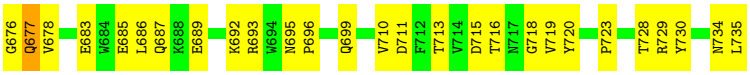
Chain E:



• Molecule 1: Capsid protein VP1

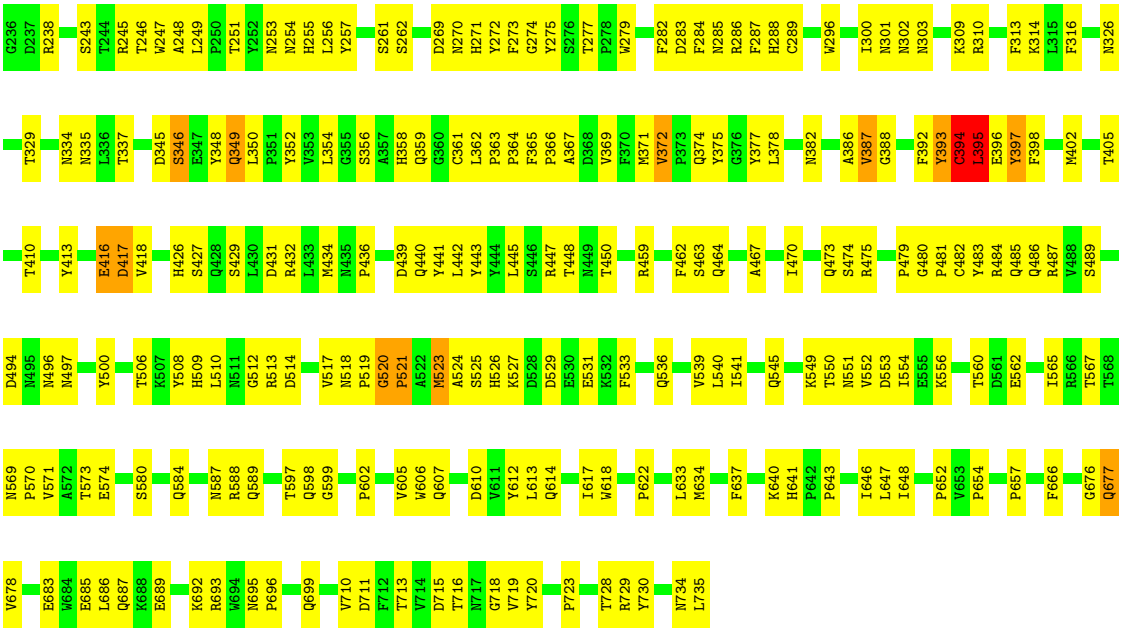
Chain F:





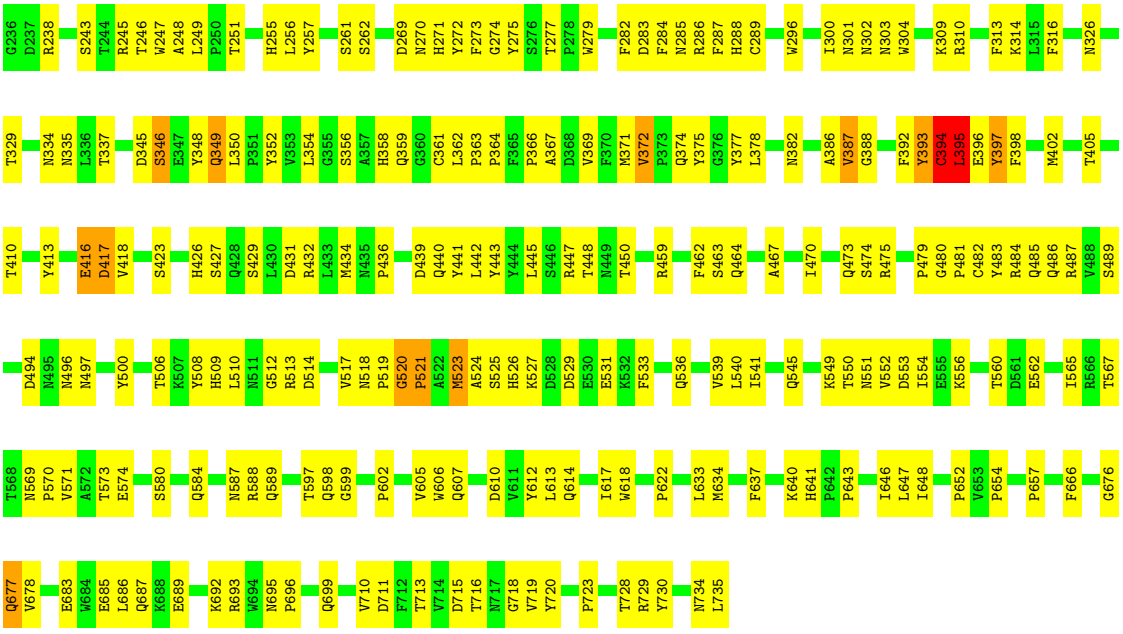
• Molecule 1: Capsid protein VP1

Chain G:



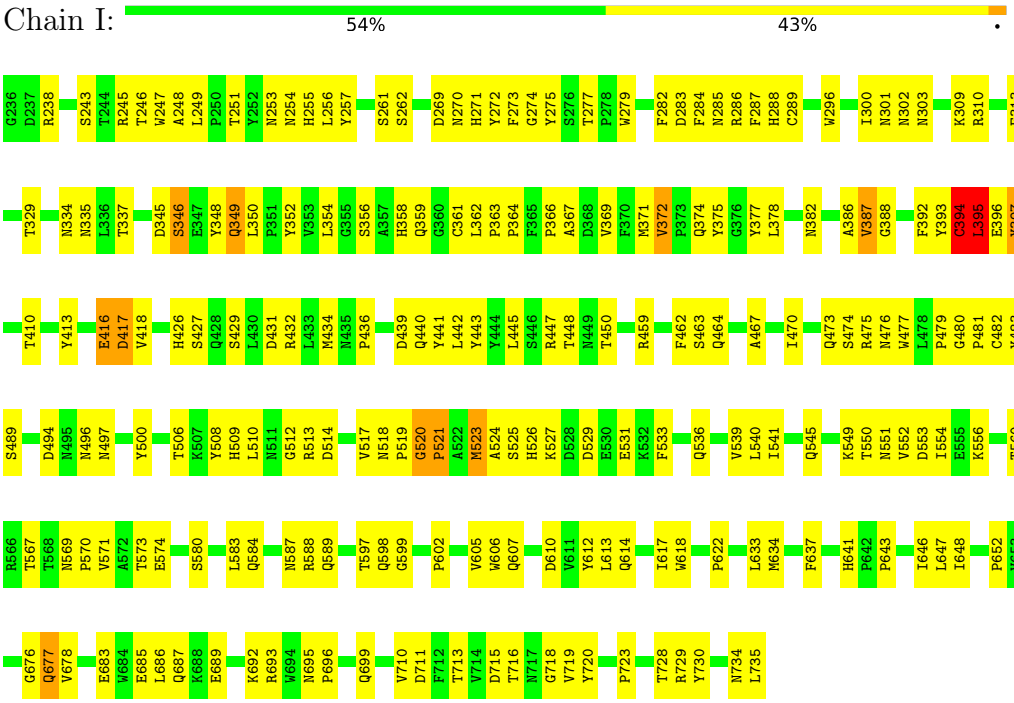
• Molecule 1: Capsid protein VP1

Chain H:



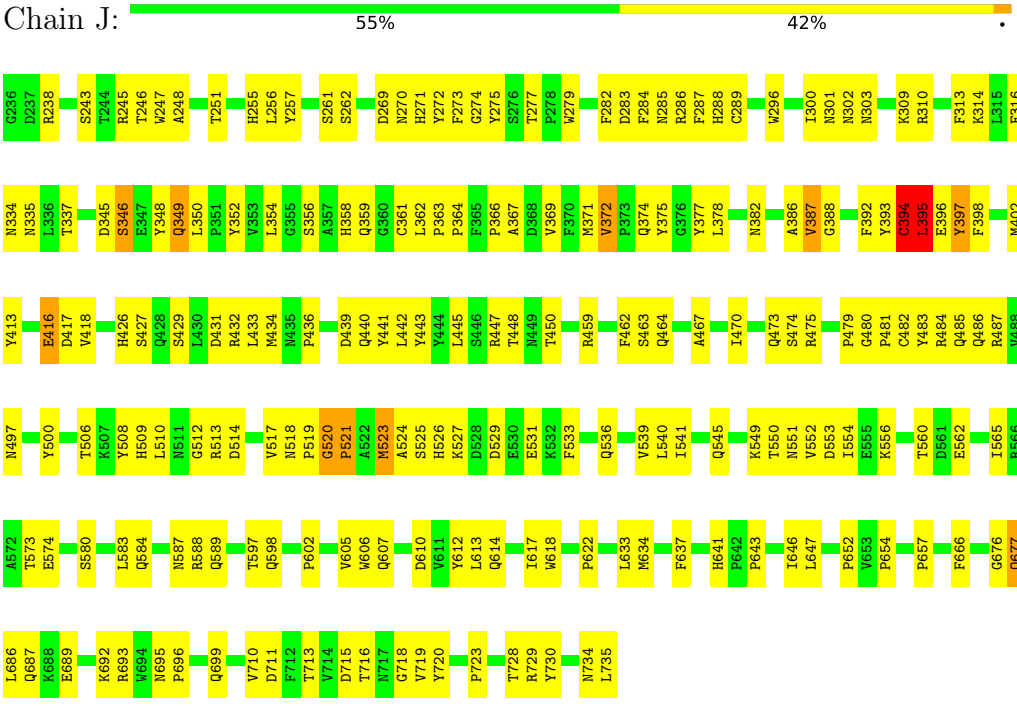
• Molecule 1: Capsid protein VP1

Chain I:



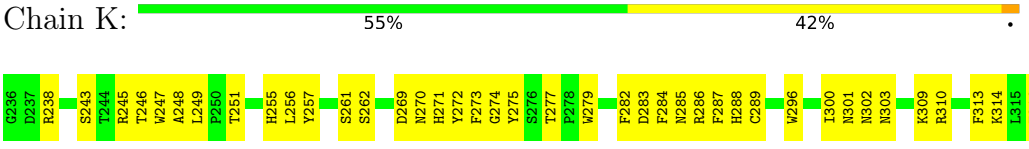
• Molecule 1: Capsid protein VP1

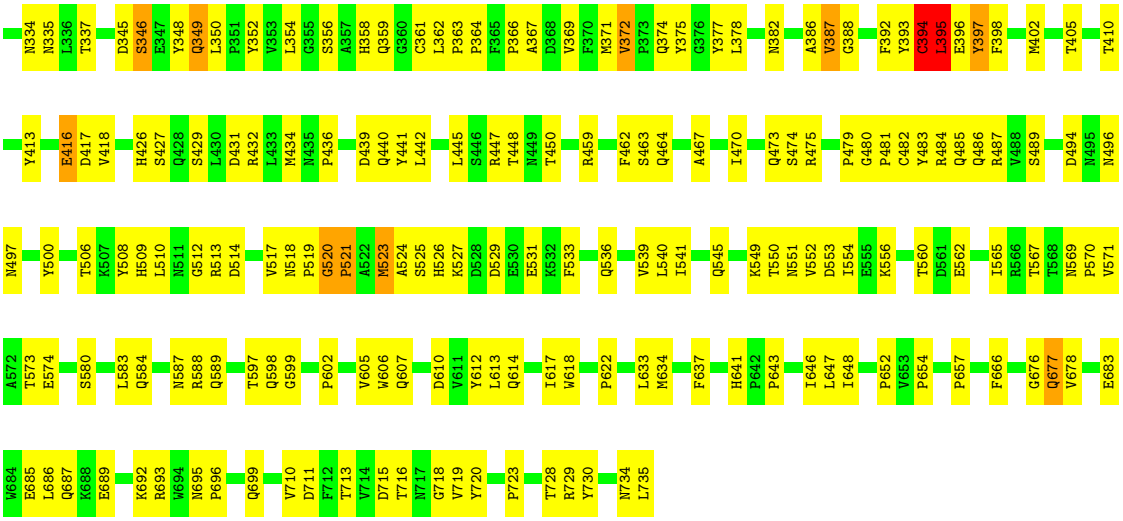
Chain J:



• Molecule 1: Capsid protein VP1

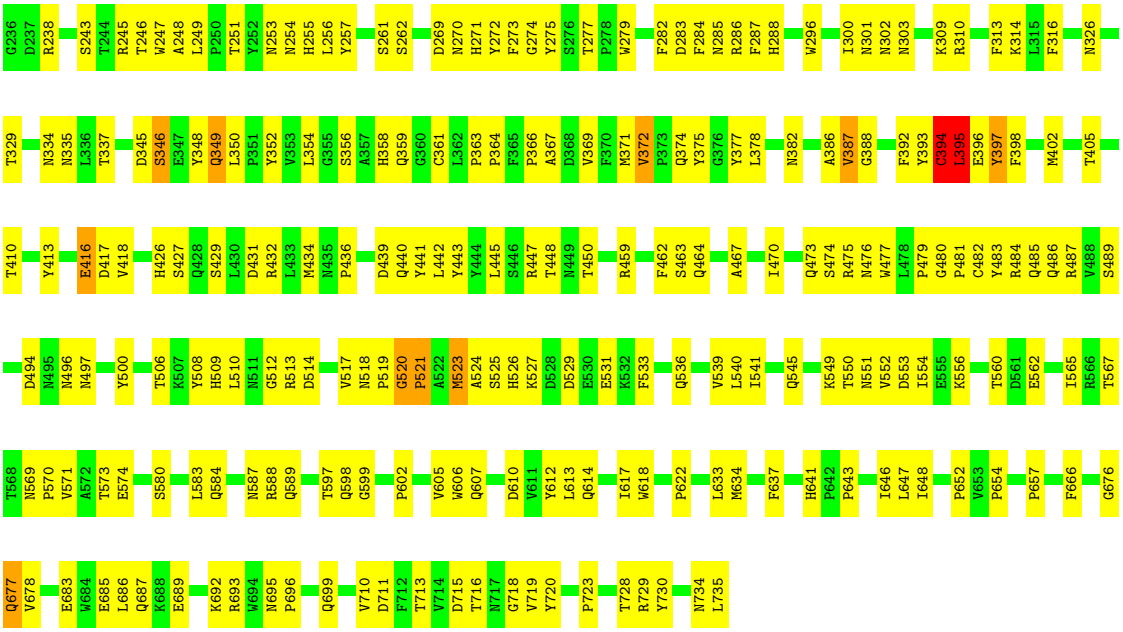
Chain K:





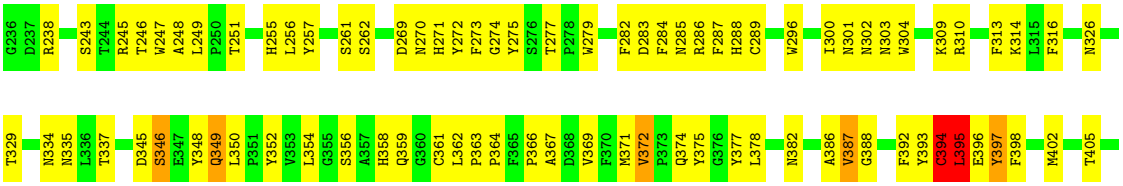
• Molecule 1: Capsid protein VP1

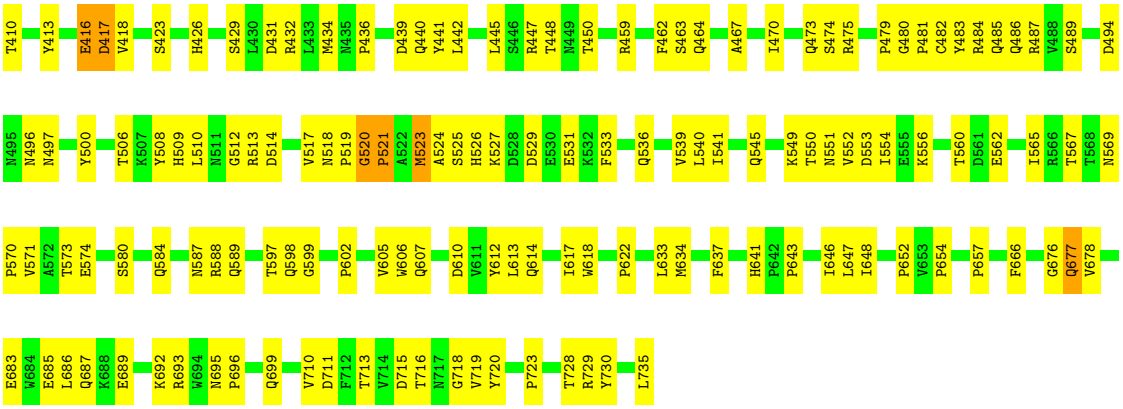
Chain L:



• Molecule 1: Capsid protein VP1

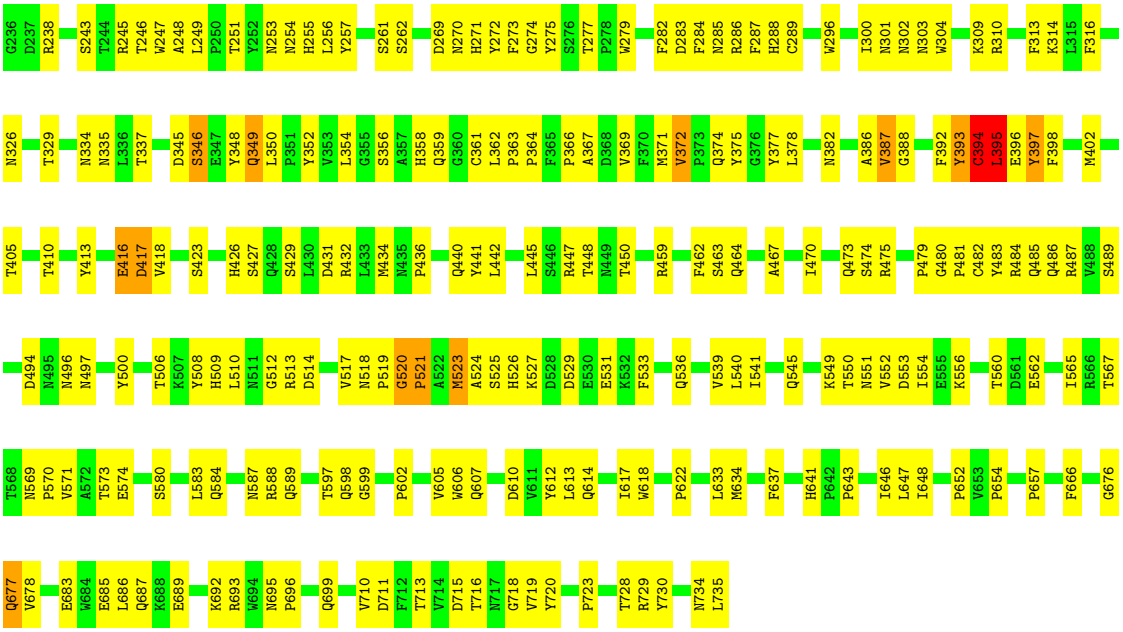
Chain M:





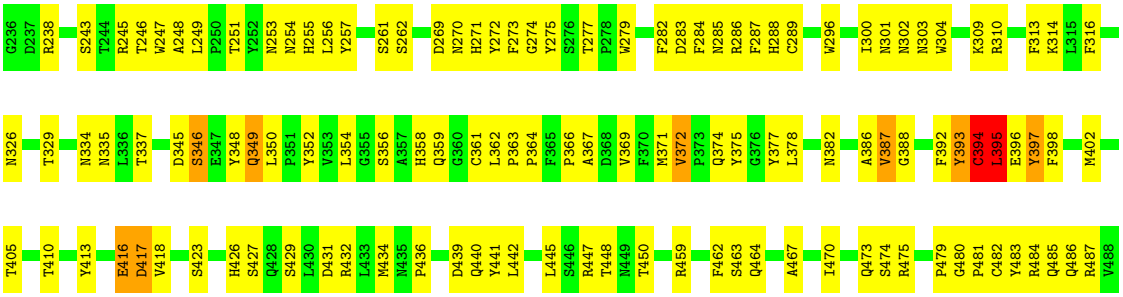
• Molecule 1: Capsid protein VP1

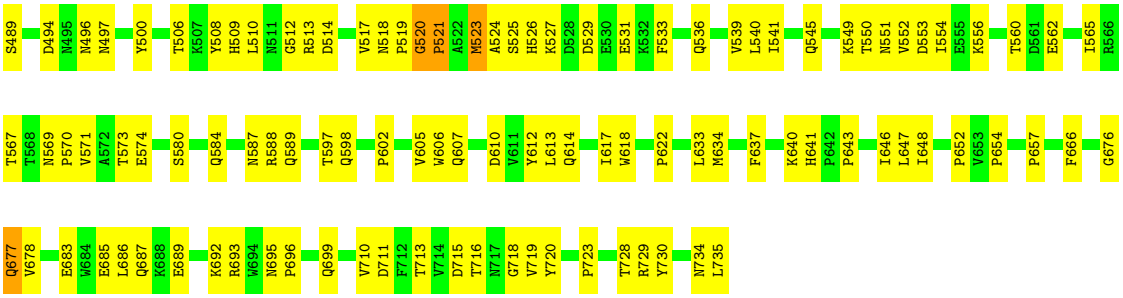
Chain N:



• Molecule 1: Capsid protein VP1

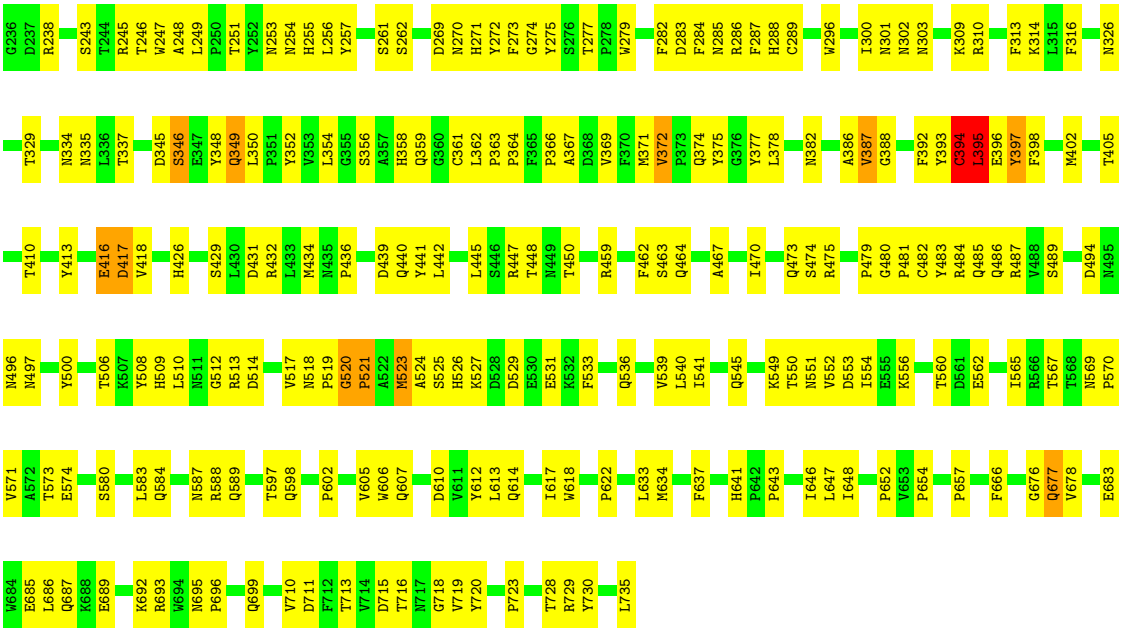
Chain O:





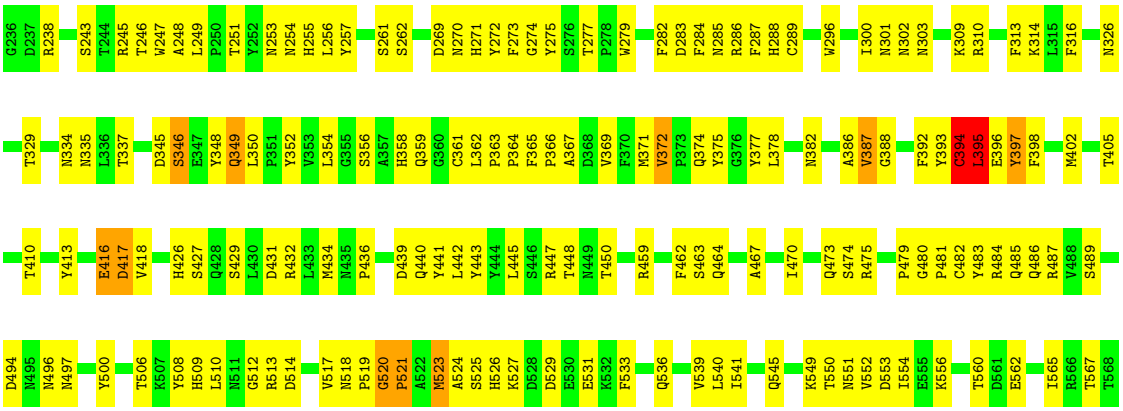
• Molecule 1: Capsid protein VP1

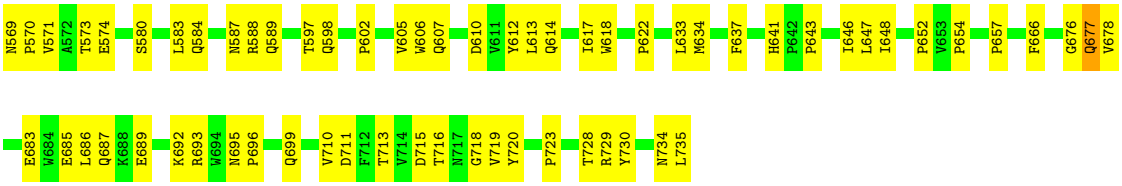
Chain P:



• Molecule 1: Capsid protein VP1

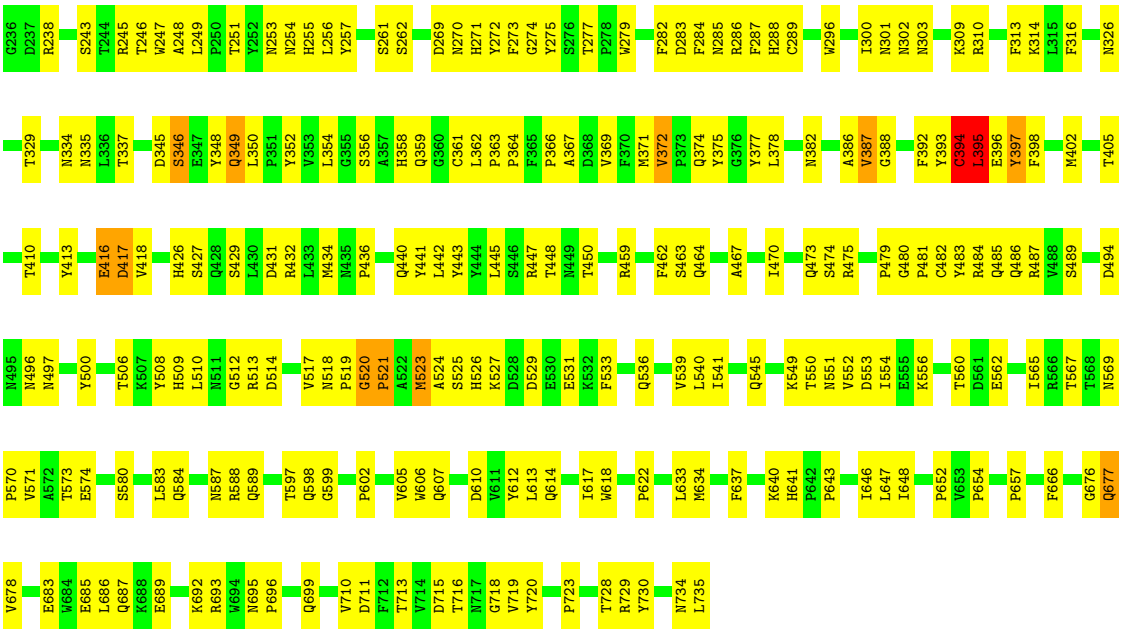
Chain Q:





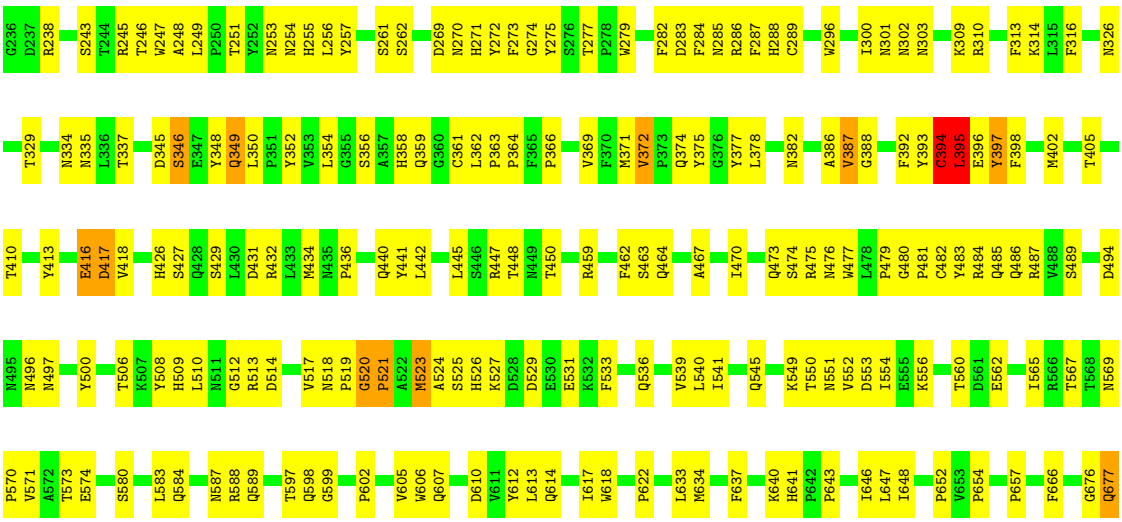
• Molecule 1: Capsid protein VP1

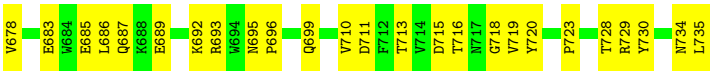
Chain R:



• Molecule 1: Capsid protein VP1

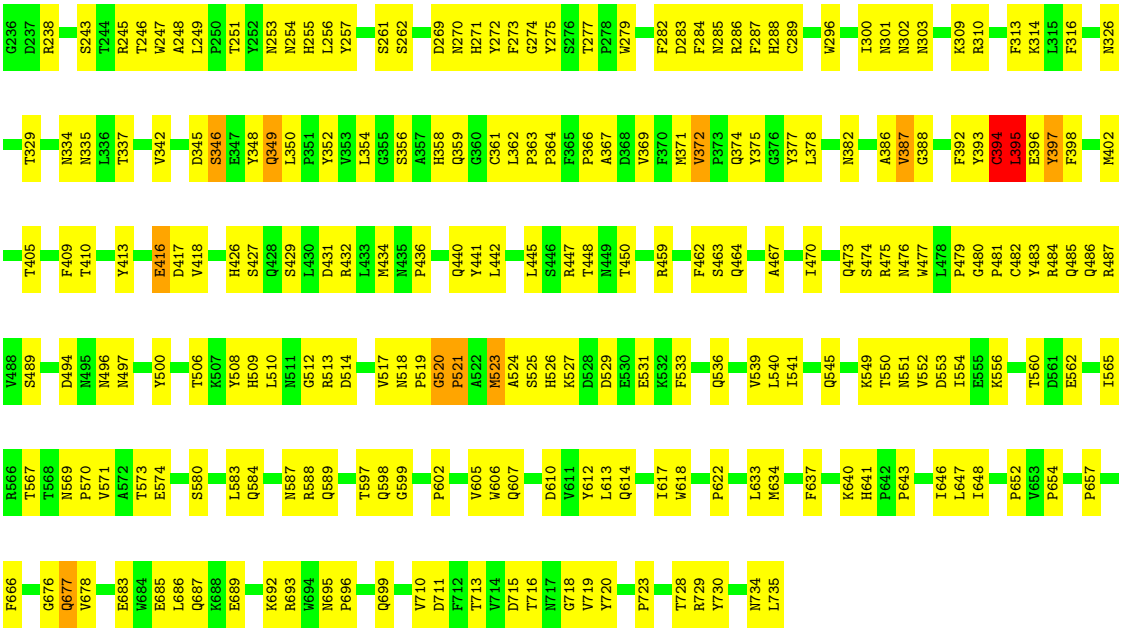
Chain S:





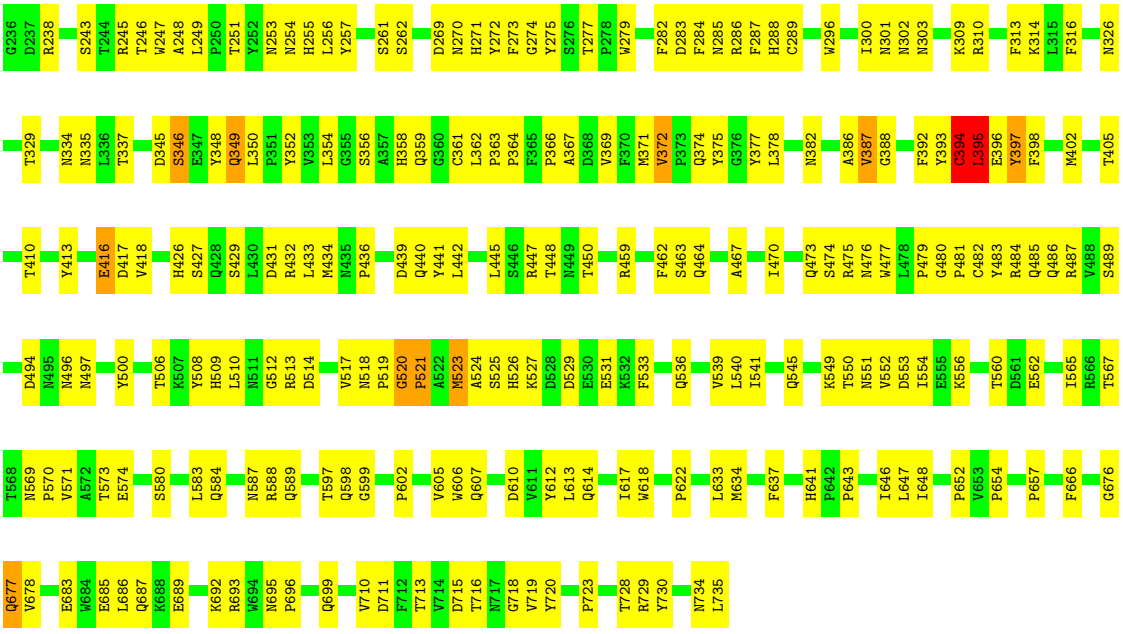
• Molecule 1: Capsid protein VP1

Chain T:



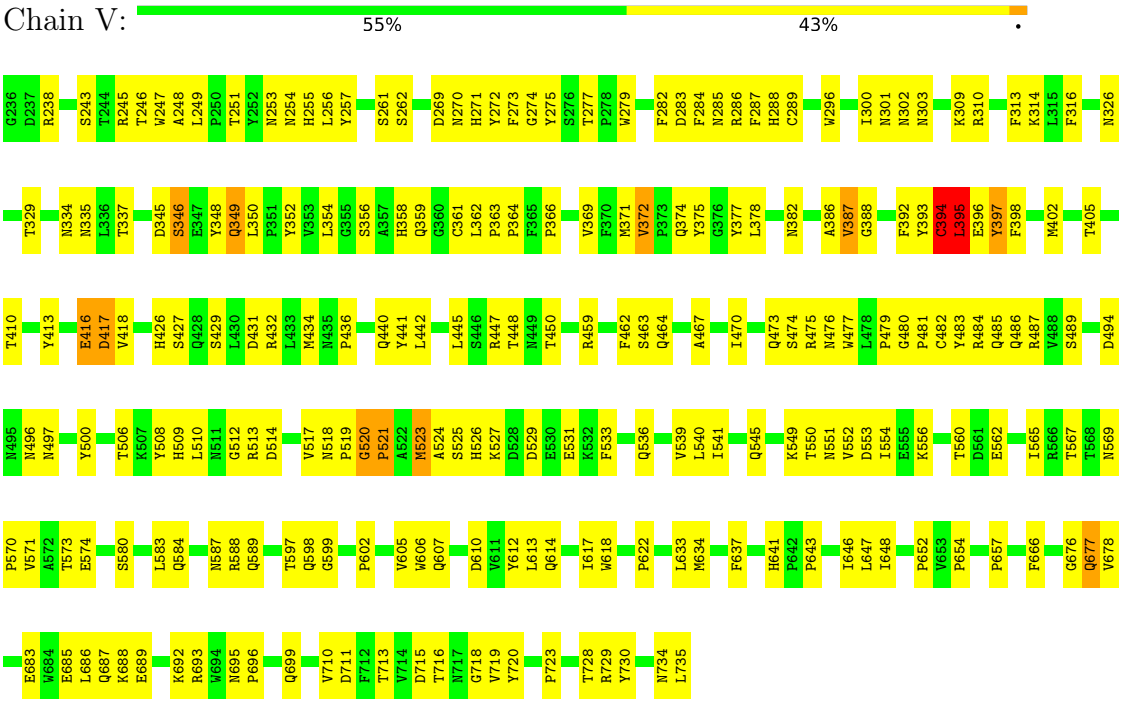
• Molecule 1: Capsid protein VP1

Chain U:



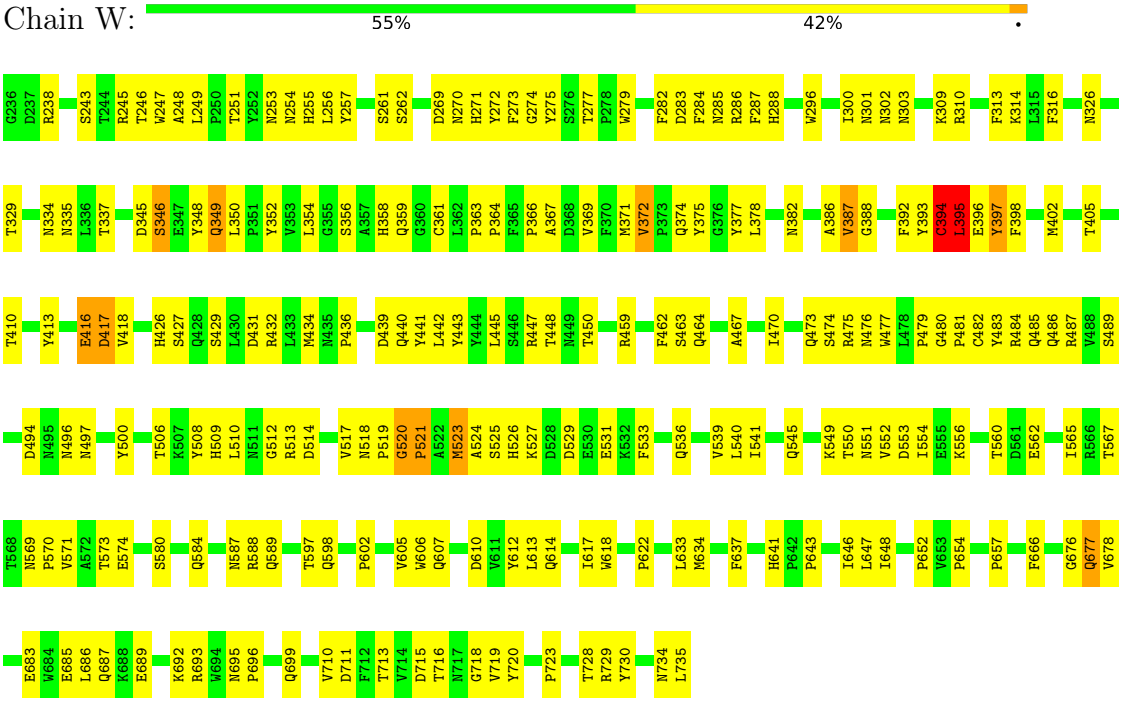
• Molecule 1: Capsid protein VP1

Chain V:



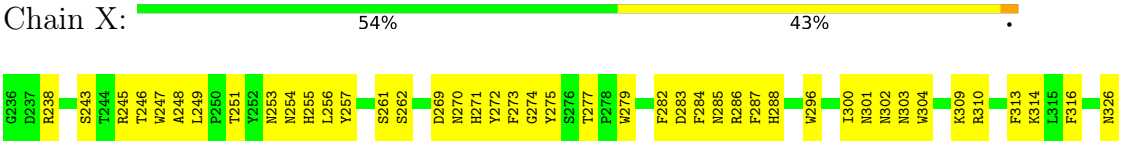
• Molecule 1: Capsid protein VP1

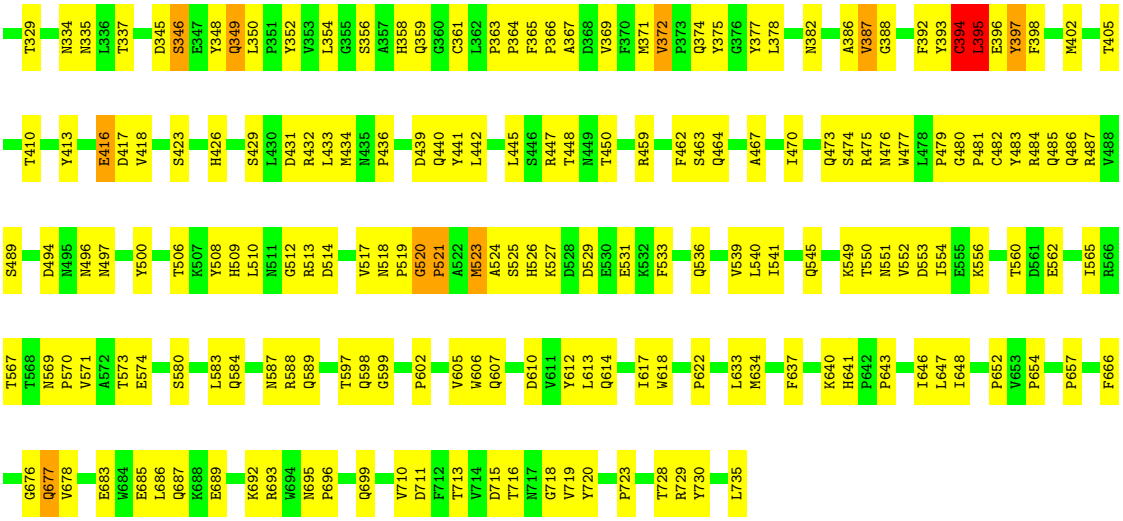
Chain W:



• Molecule 1: Capsid protein VP1

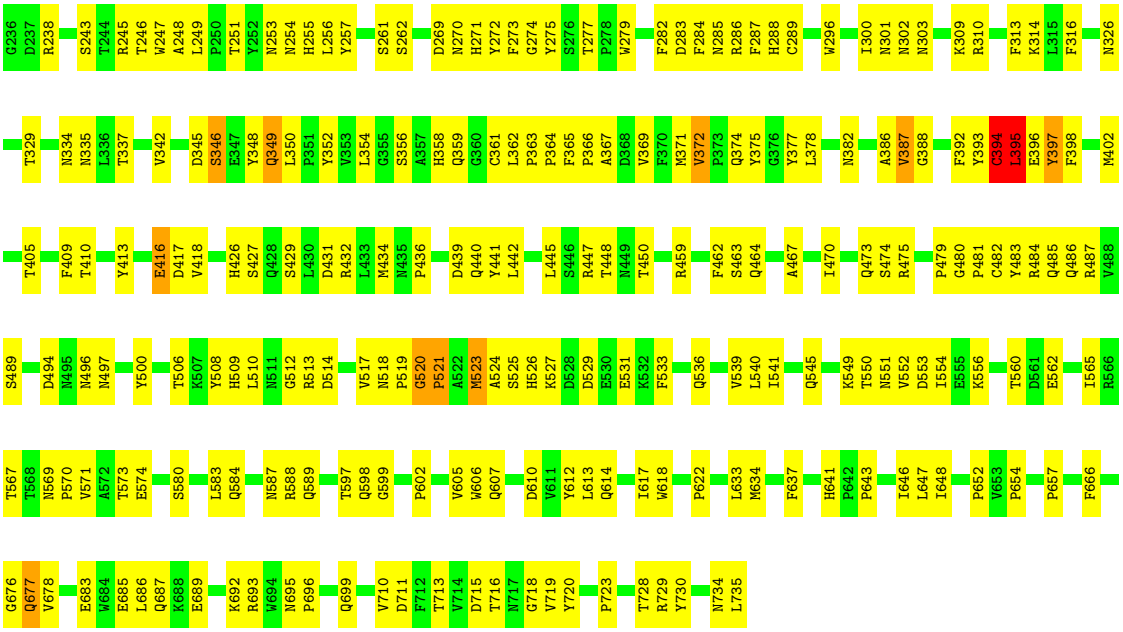
Chain X:





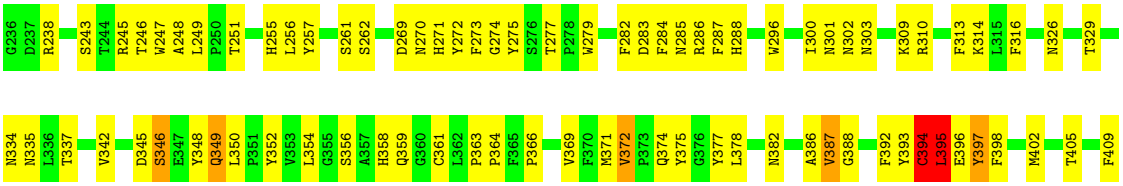
• Molecule 1: Capsid protein VP1

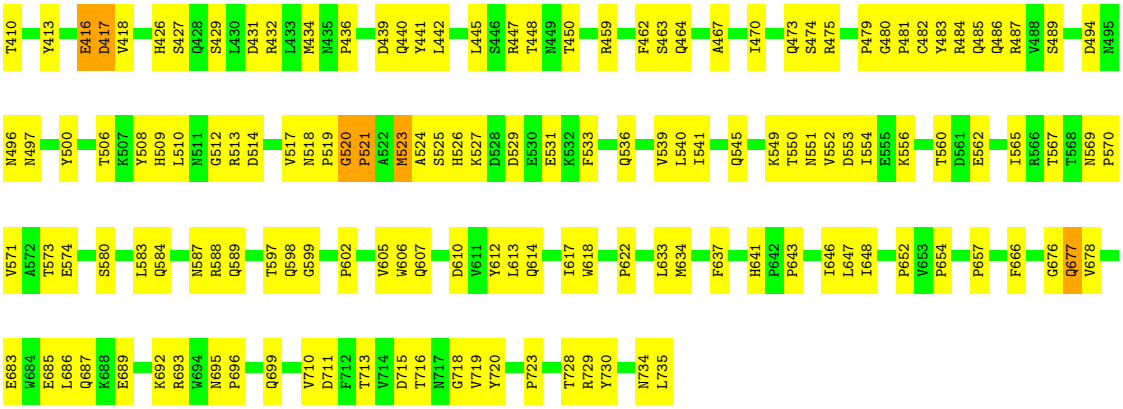
Chain Y:



• Molecule 1: Capsid protein VP1

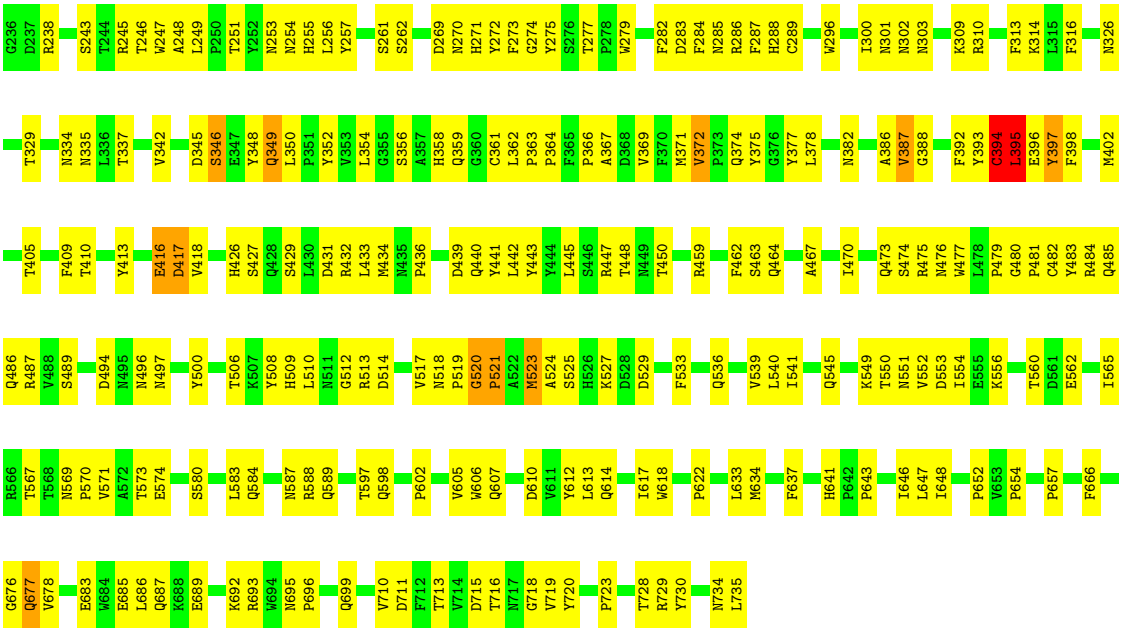
Chain Z:





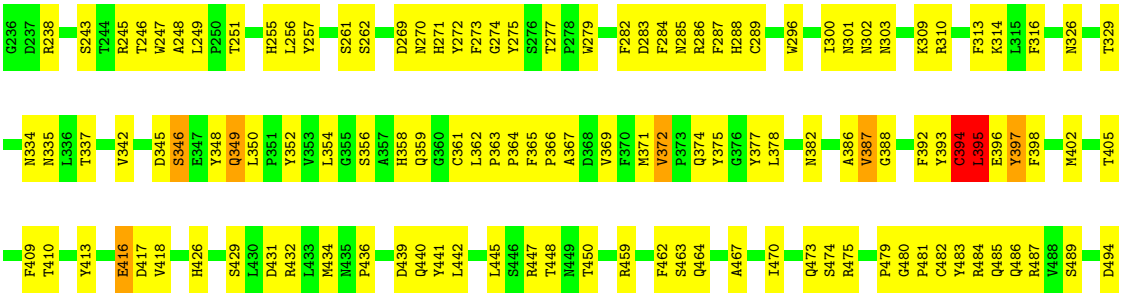
• Molecule 1: Capsid protein VP1

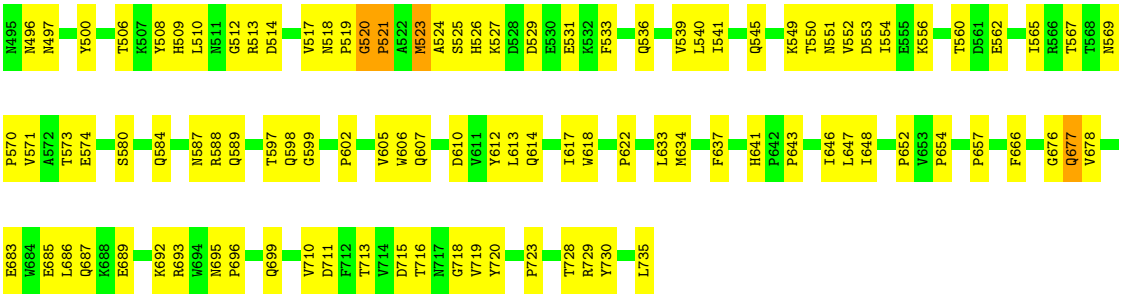
Chain a:



• Molecule 1: Capsid protein VP1

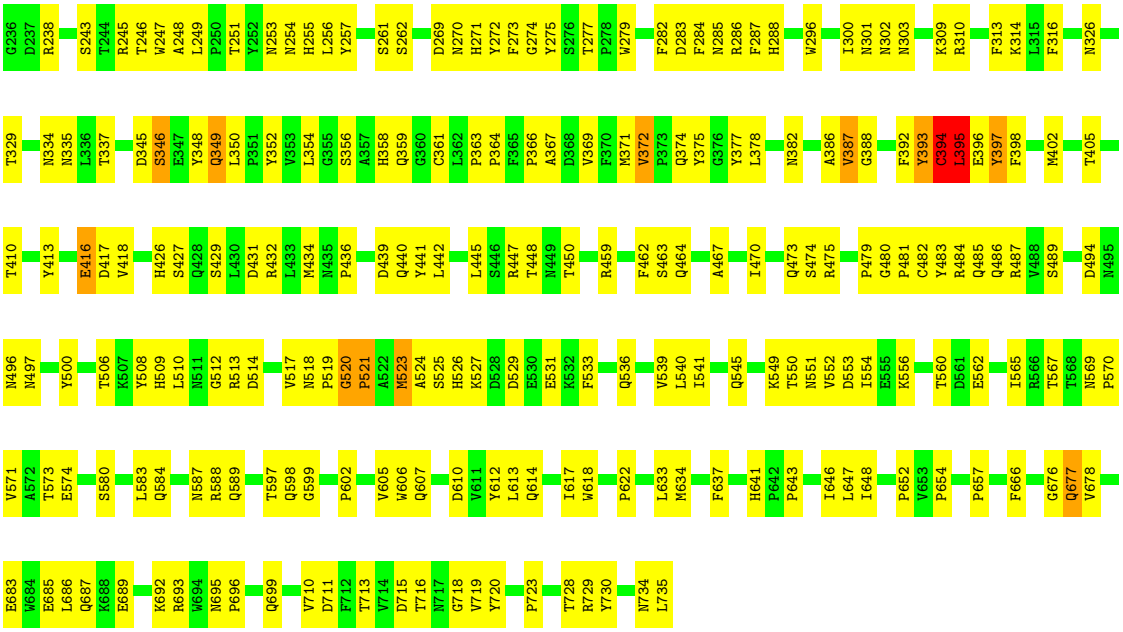
Chain b:





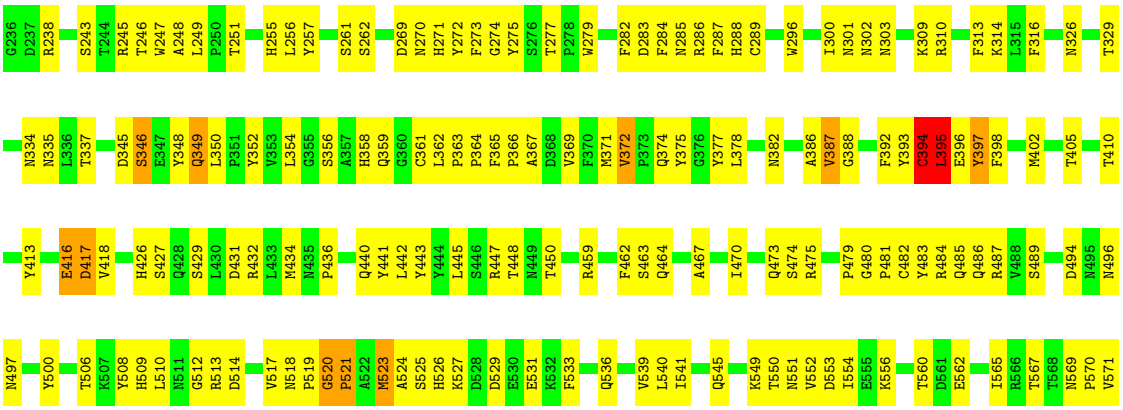
• Molecule 1: Capsid protein VP1

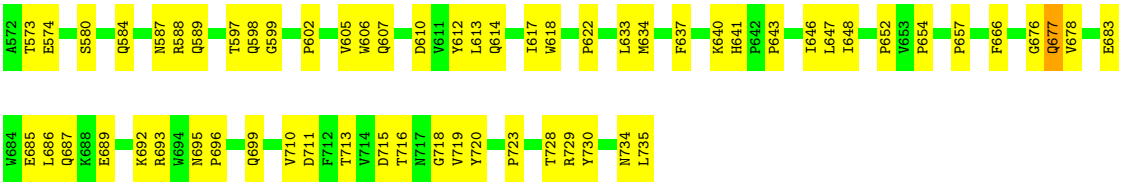
Chain c:



• Molecule 1: Capsid protein VP1

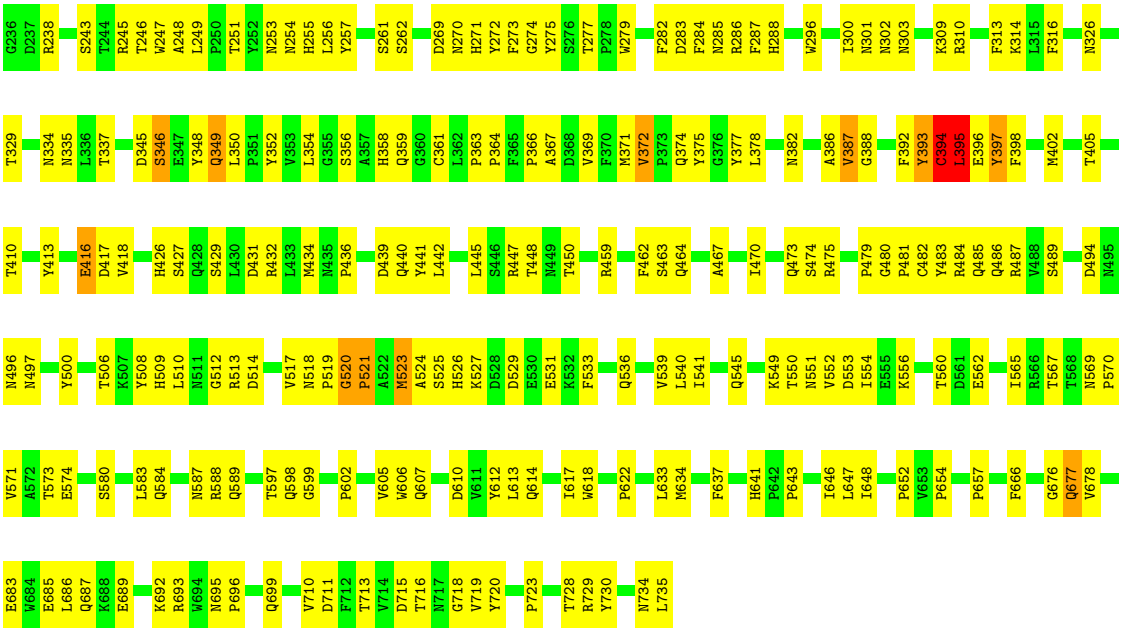
Chain d:





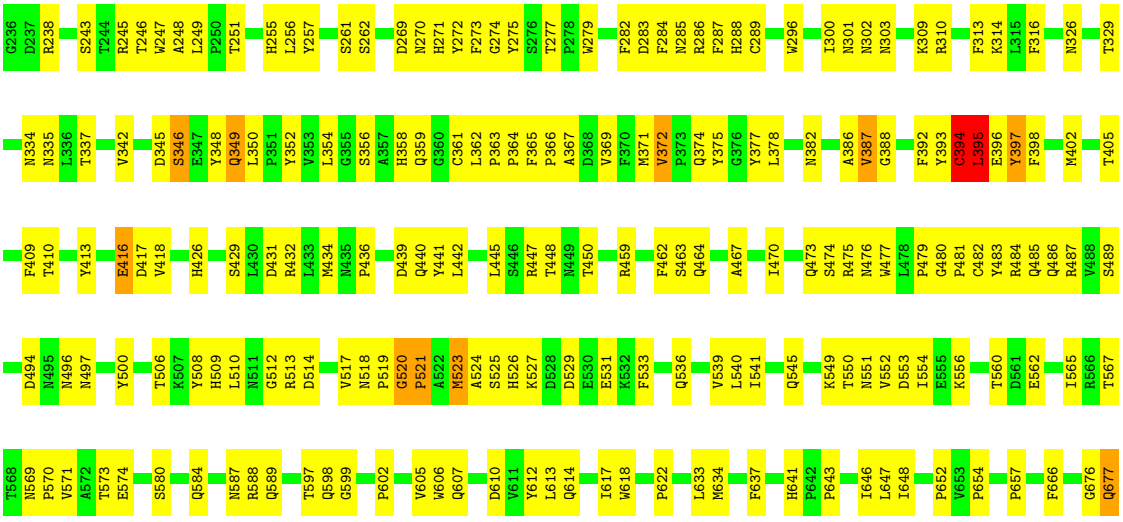
• Molecule 1: Capsid protein VP1

Chain e:



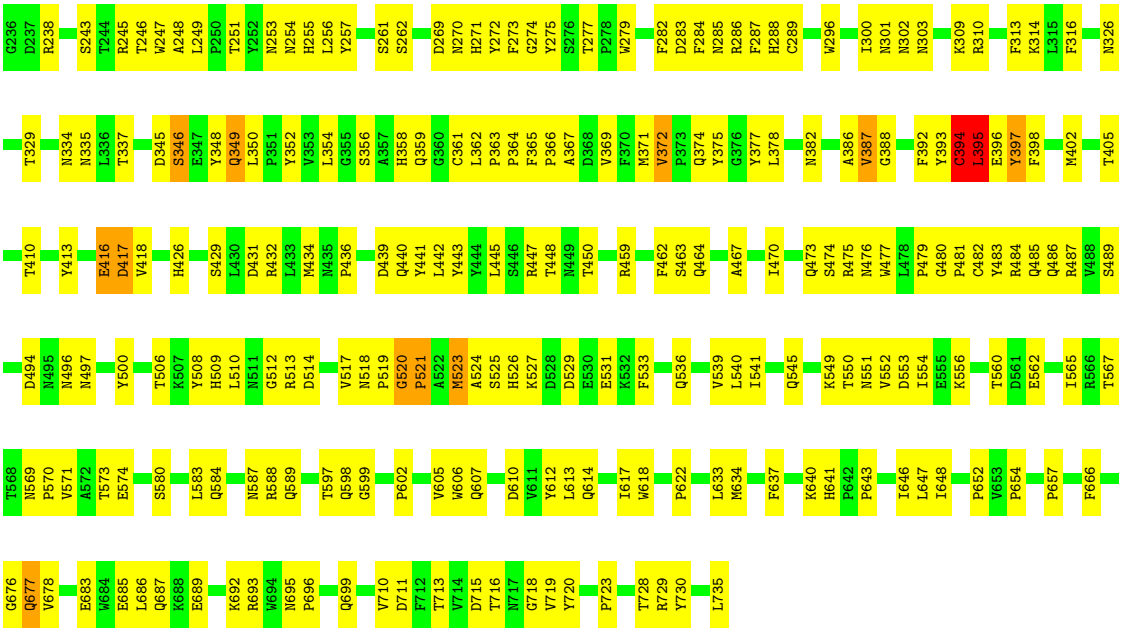
• Molecule 1: Capsid protein VP1

Chain f:



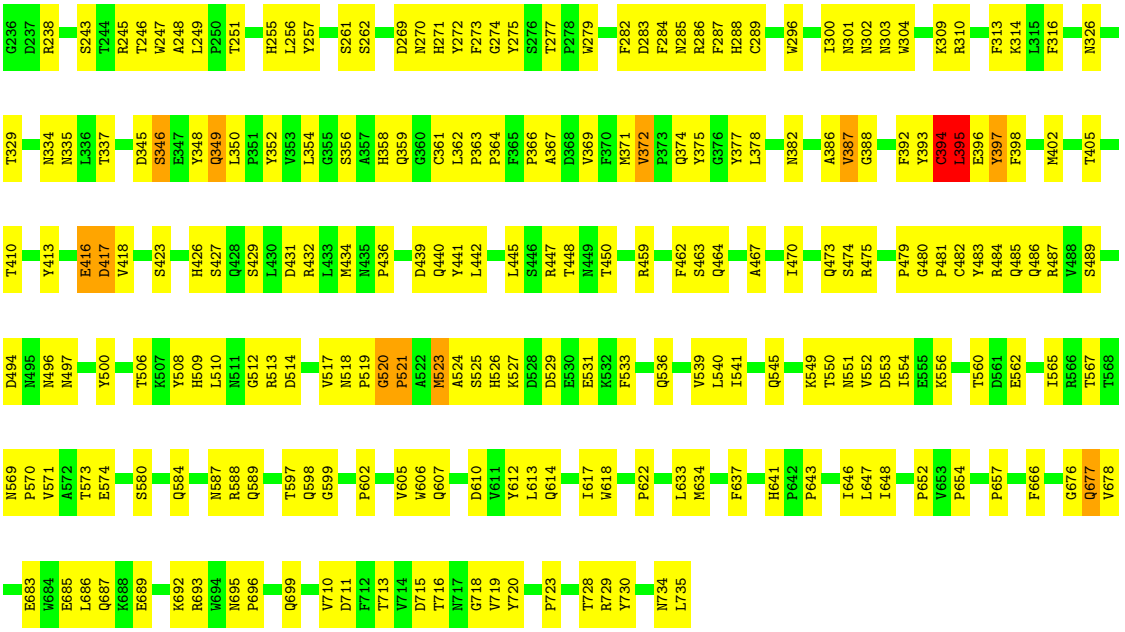
• Molecule 1: Capsid protein VP1

Chain g:



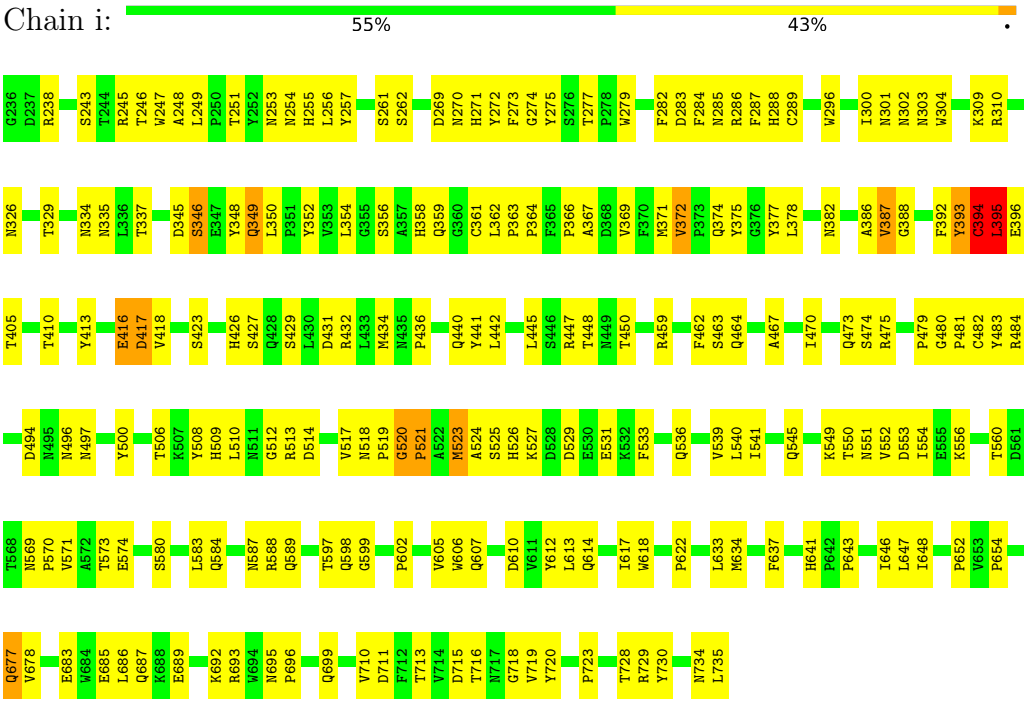
• Molecule 1: Capsid protein VP1

Chain h:



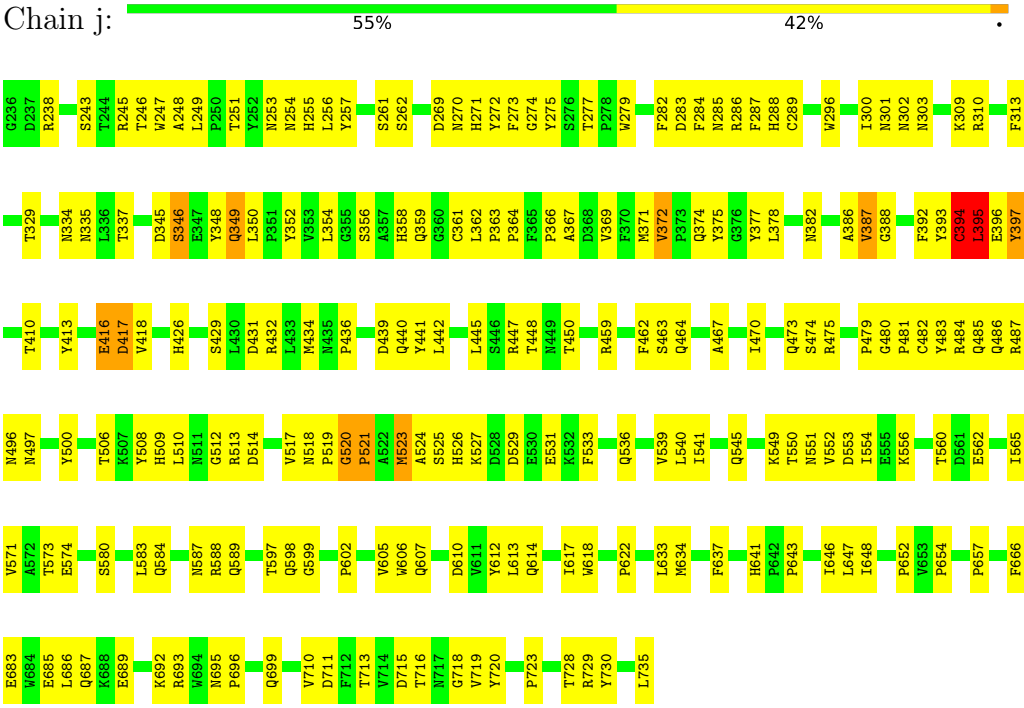
• Molecule 1: Capsid protein VP1

Chain i:



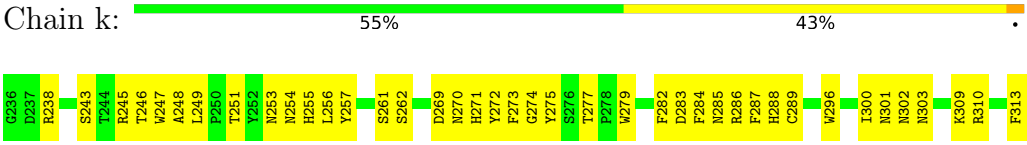
• Molecule 1: Capsid protein VP1

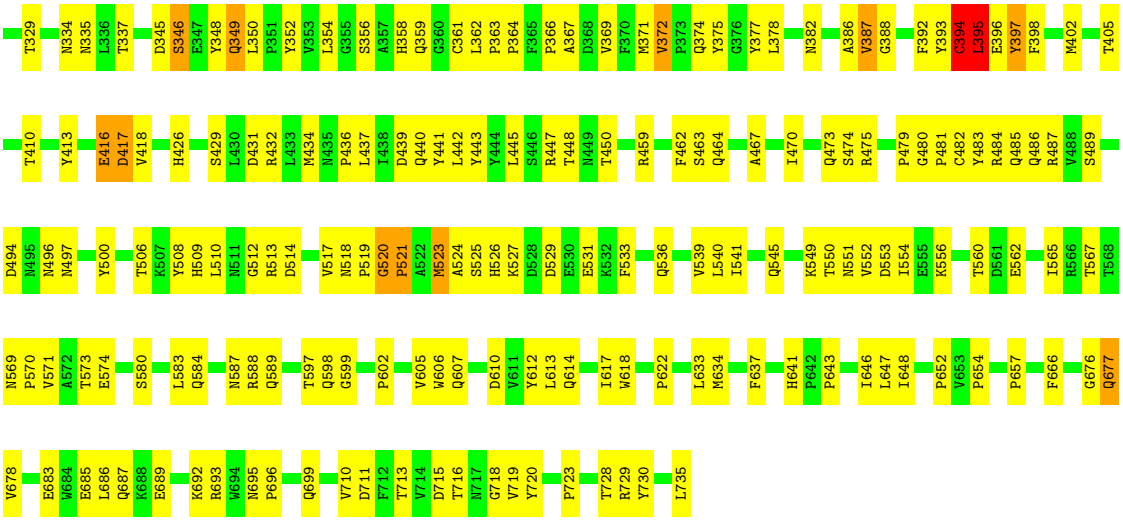
Chain j:



• Molecule 1: Capsid protein VP1

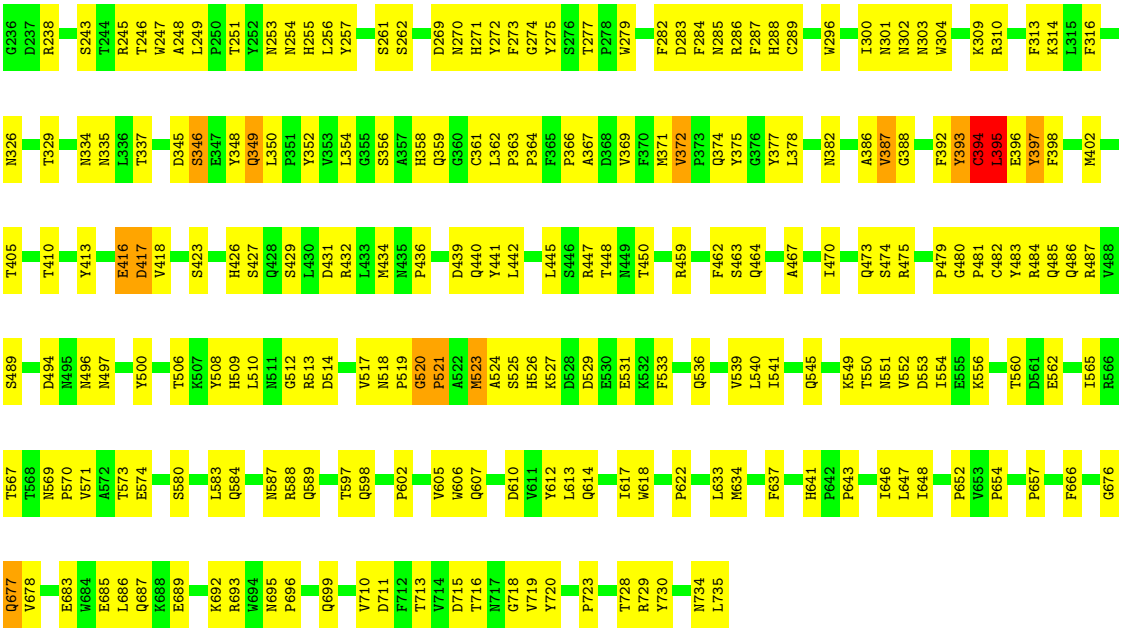
Chain k:





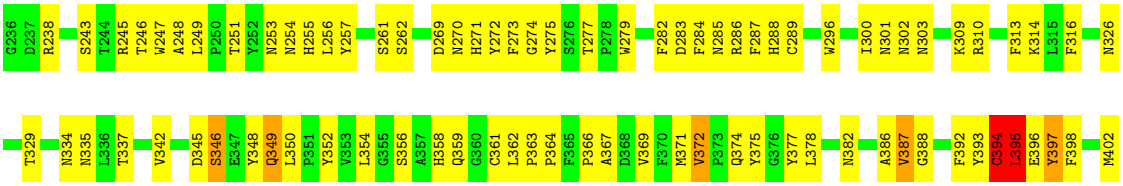
• Molecule 1: Capsid protein VP1

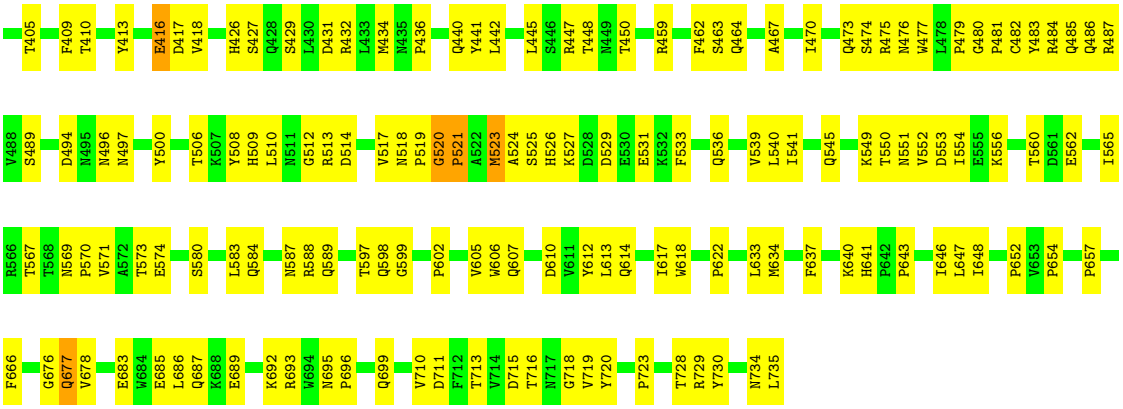
Chain l:



• Molecule 1: Capsid protein VP1

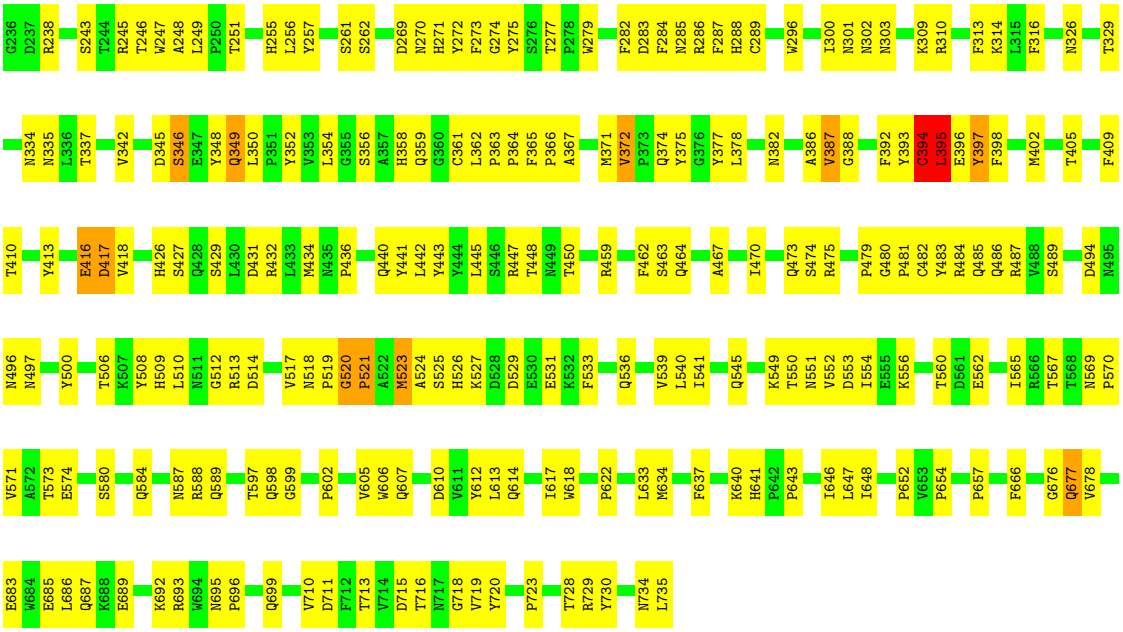
Chain m:





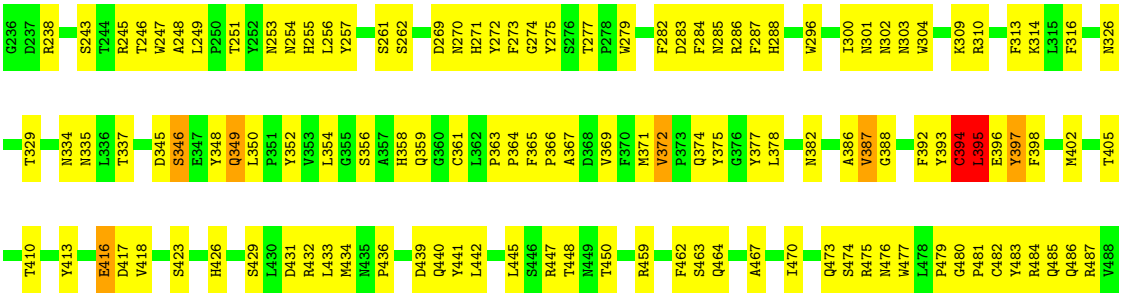
• Molecule 1: Capsid protein VP1

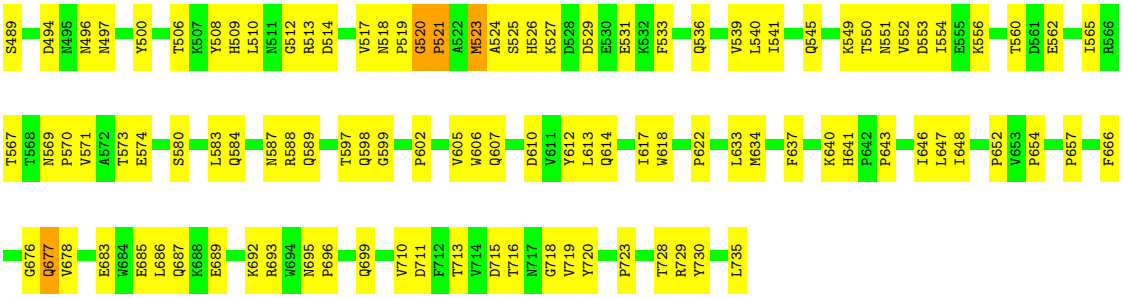
Chain n:



• Molecule 1: Capsid protein VP1

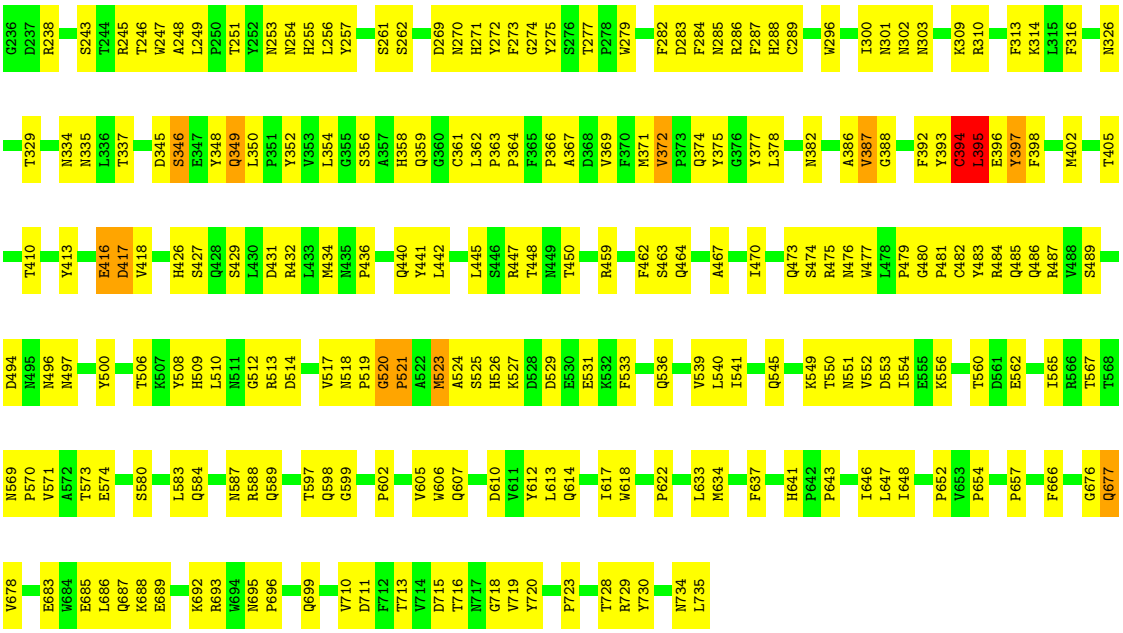
Chain o:





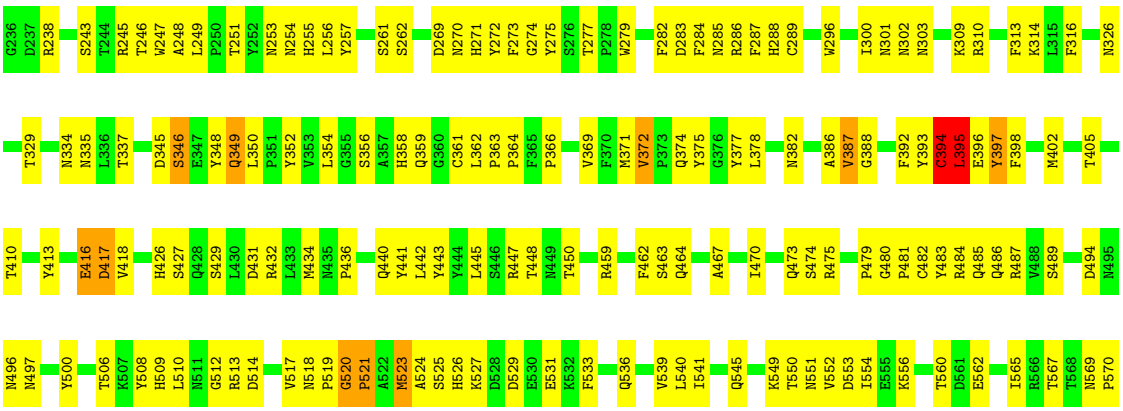
• Molecule 1: Capsid protein VP1

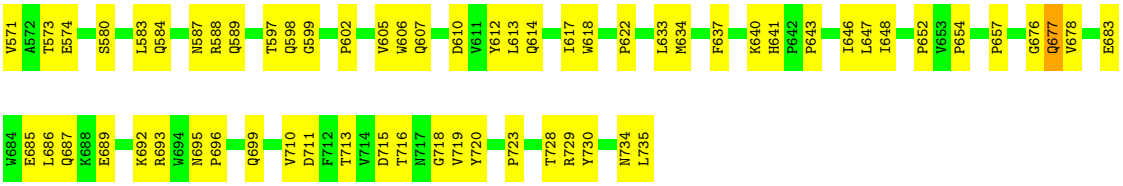
Chain p:



• Molecule 1: Capsid protein VP1

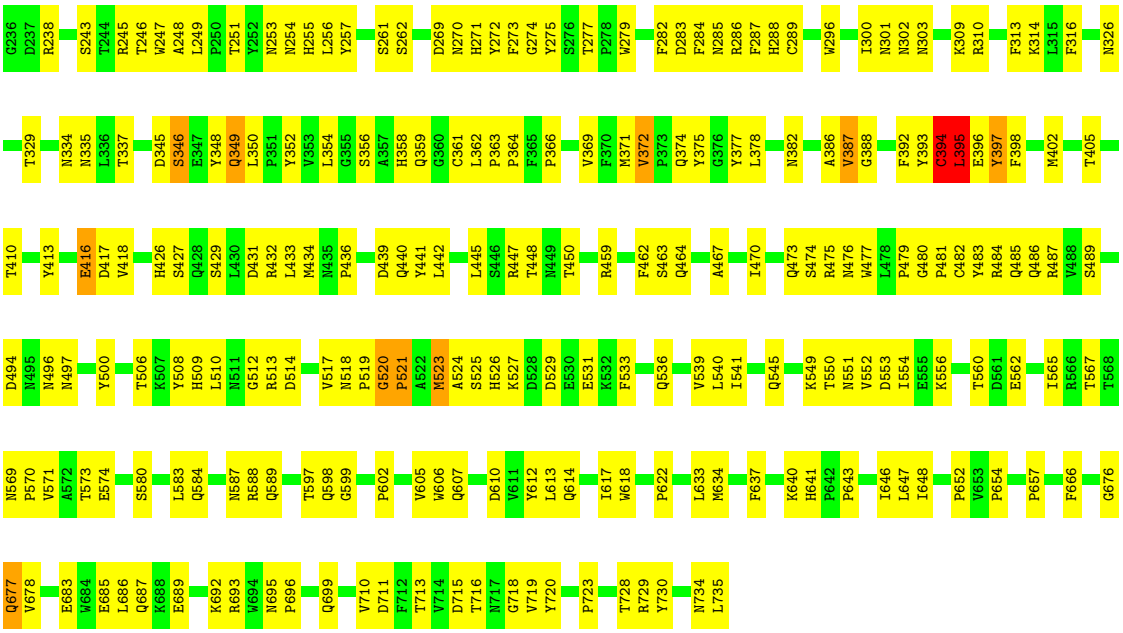
Chain q:





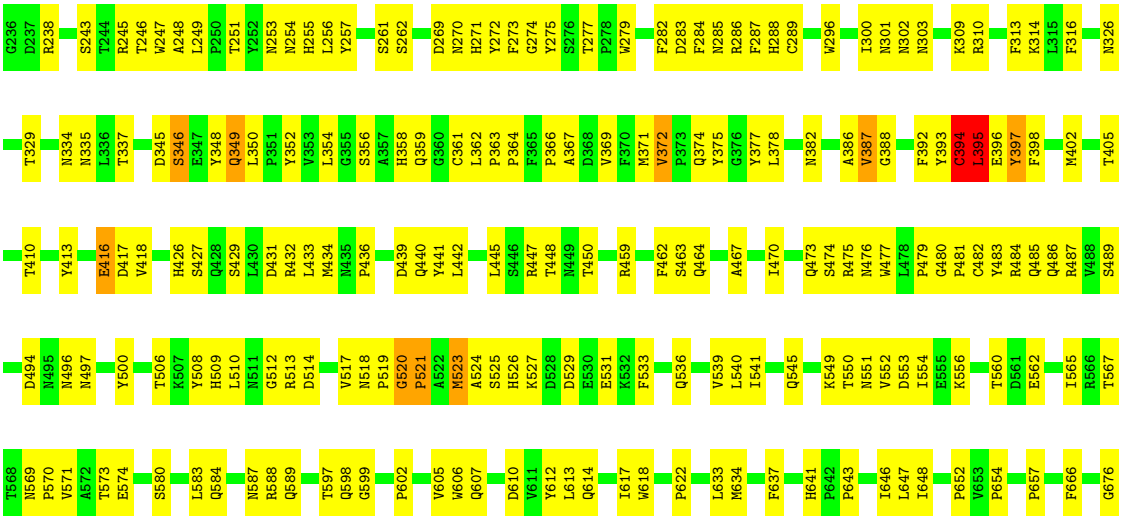
• Molecule 1: Capsid protein VP1

Chain r:



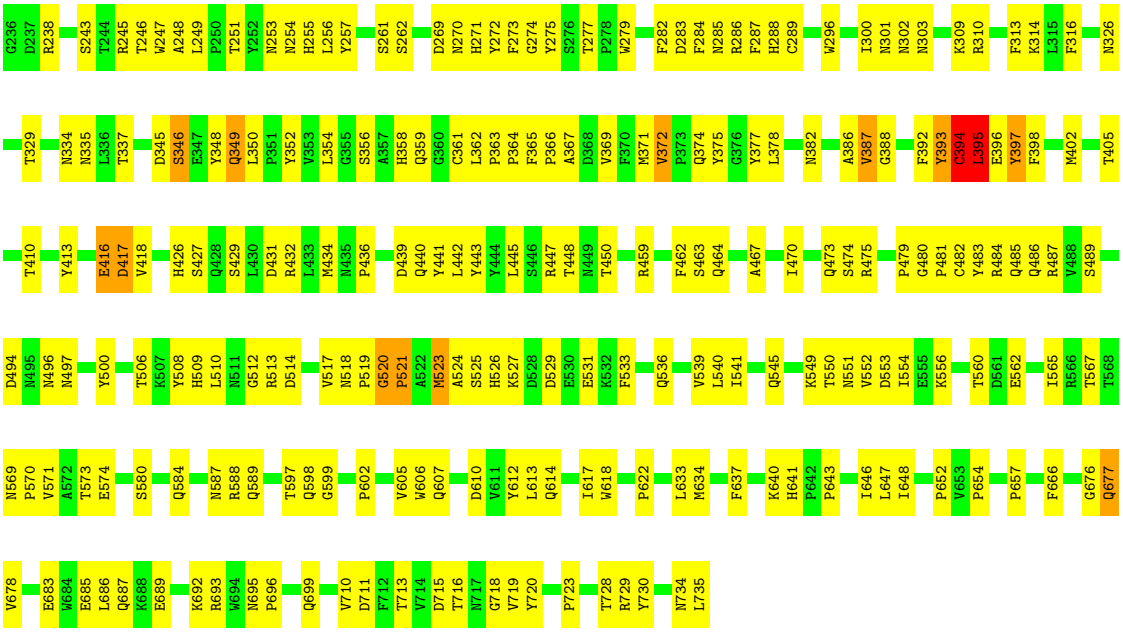
• Molecule 1: Capsid protein VP1

Chain s:



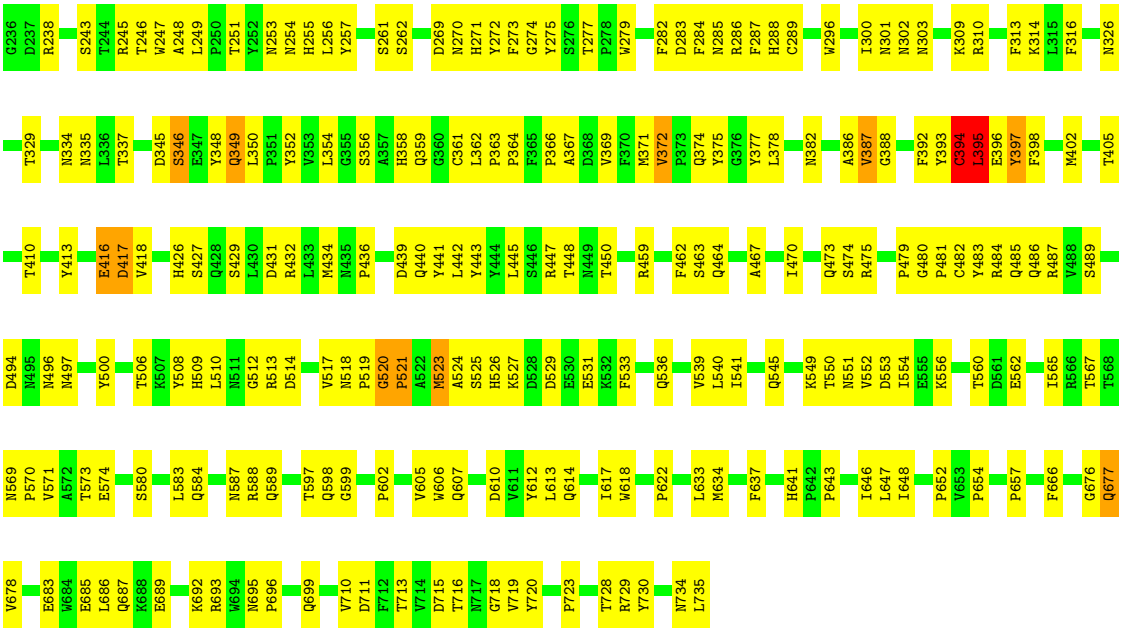
• Molecule 1: Capsid protein VP1

Chain t:



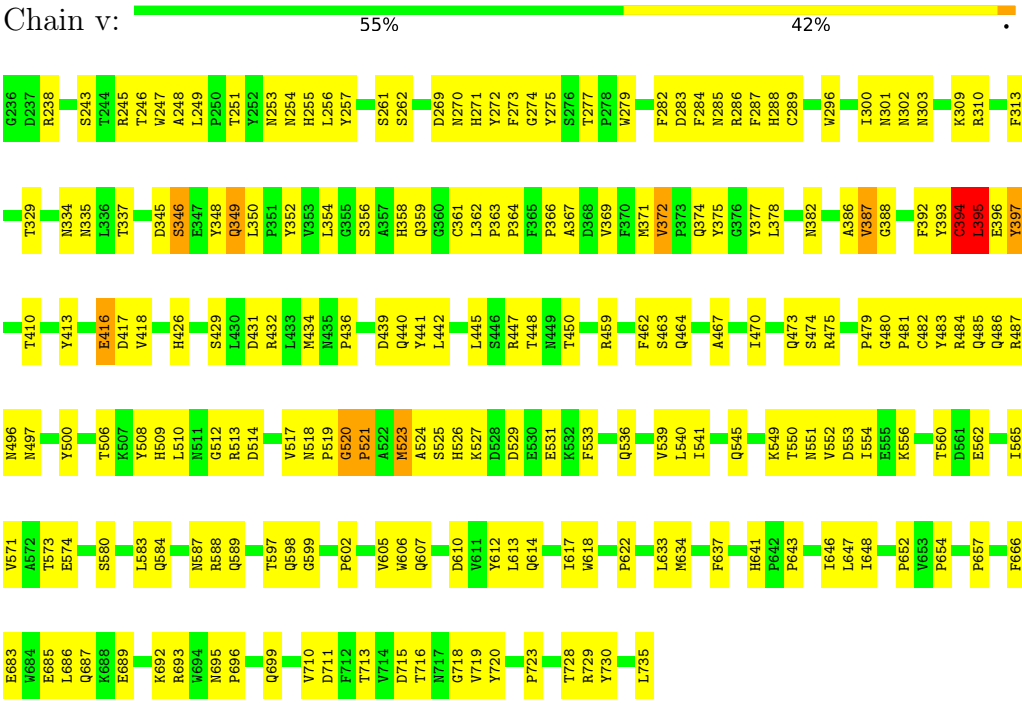
• Molecule 1: Capsid protein VP1

Chain u:



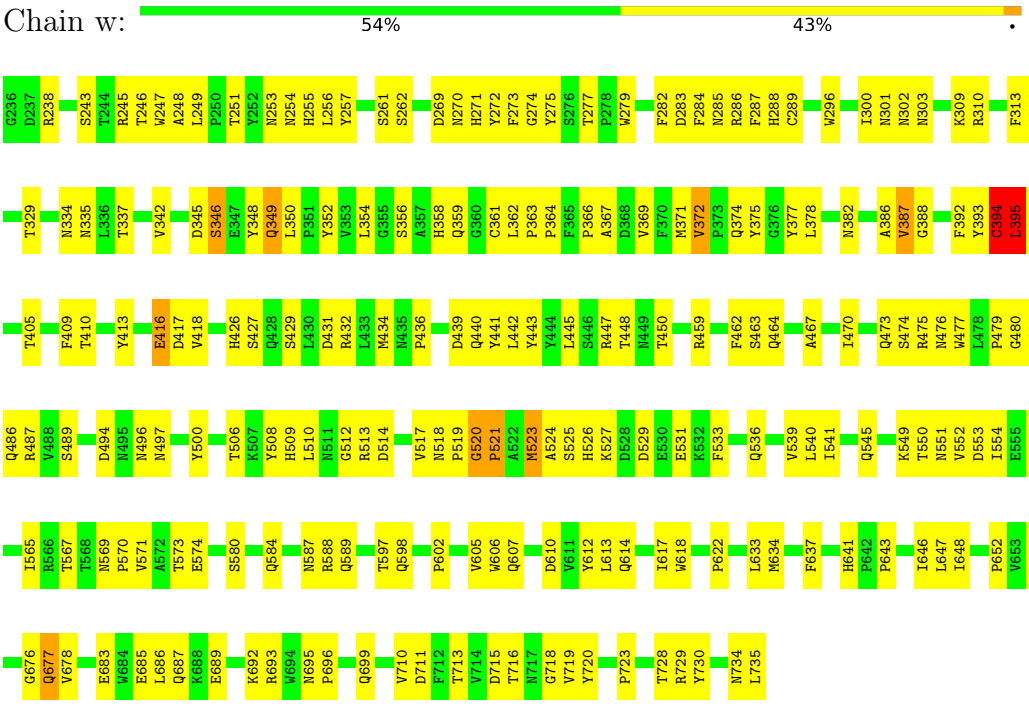
• Molecule 1: Capsid protein VP1

Chain v:



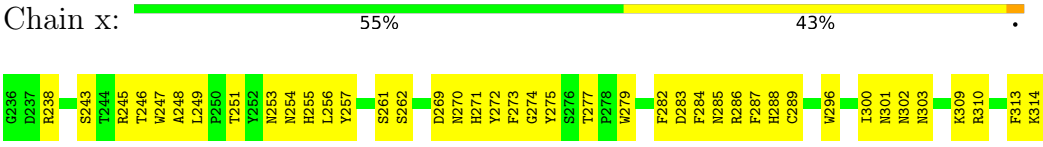
• Molecule 1: Capsid protein VP1

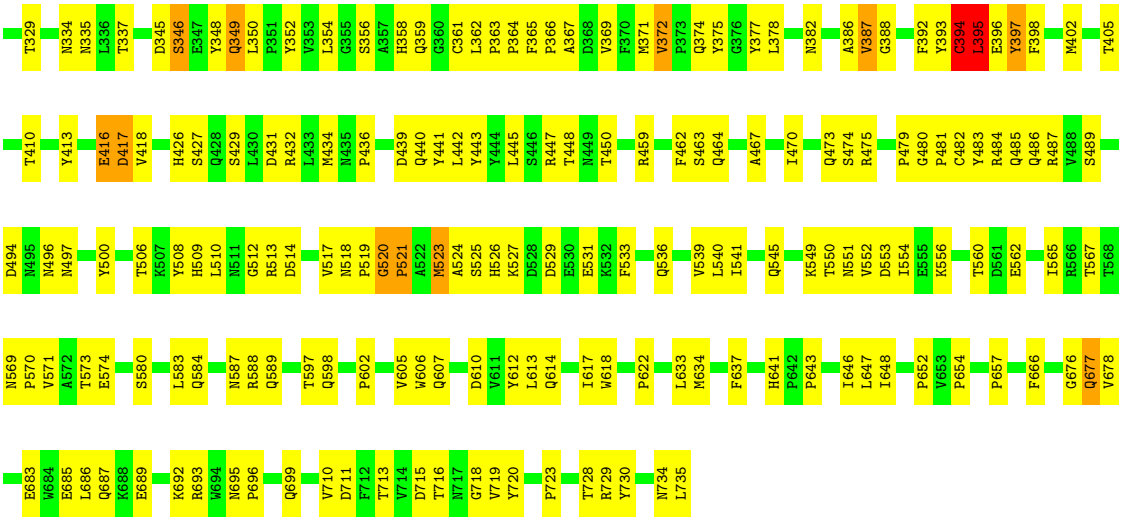
Chain w:



• Molecule 1: Capsid protein VP1

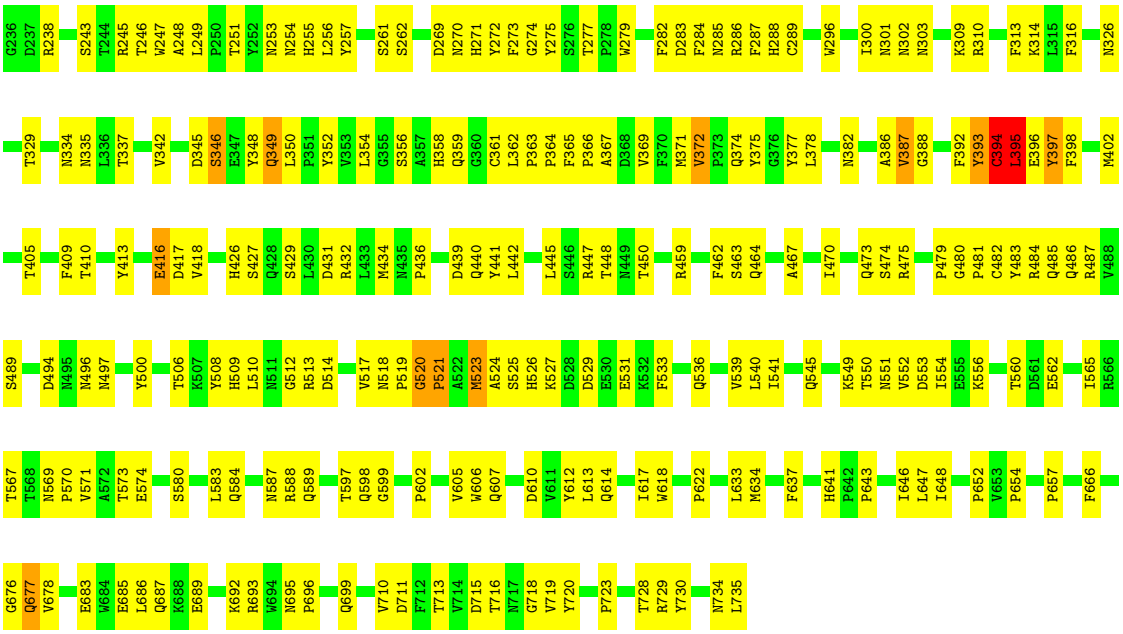
Chain x:





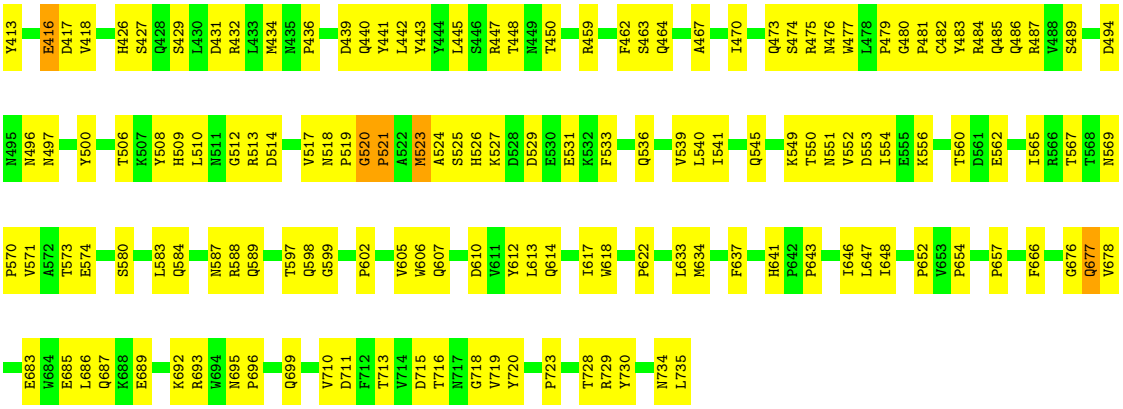
• Molecule 1: Capsid protein VP1

Chain y:



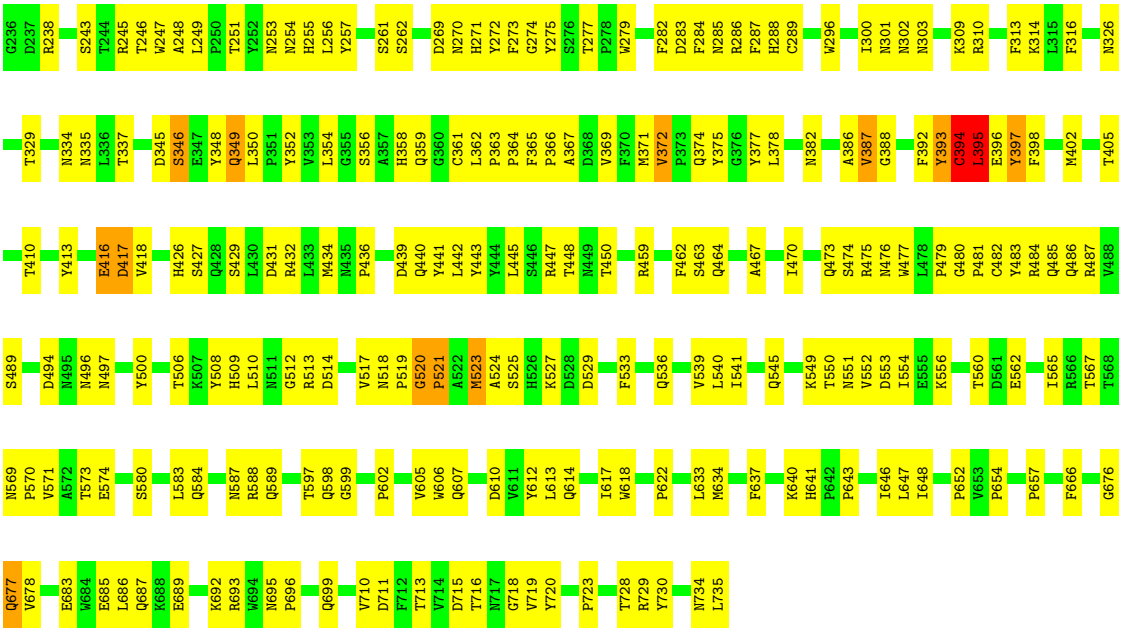
• Molecule 1: Capsid protein VP1

Chain z:



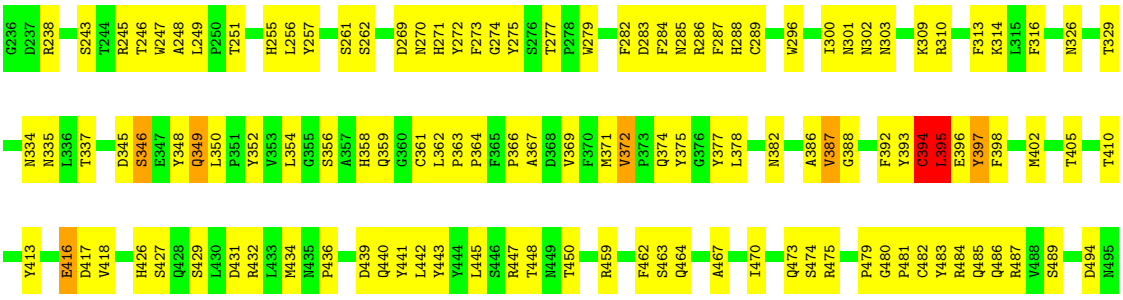
• Molecule 1: Capsid protein VP1

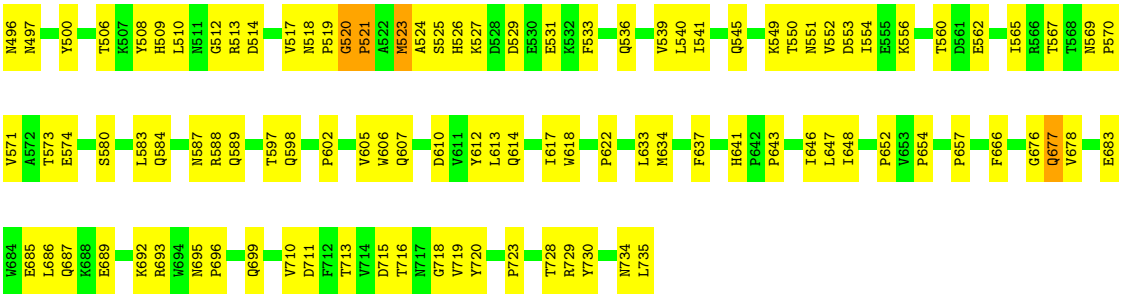
Chain 1:



• Molecule 1: Capsid protein VP1

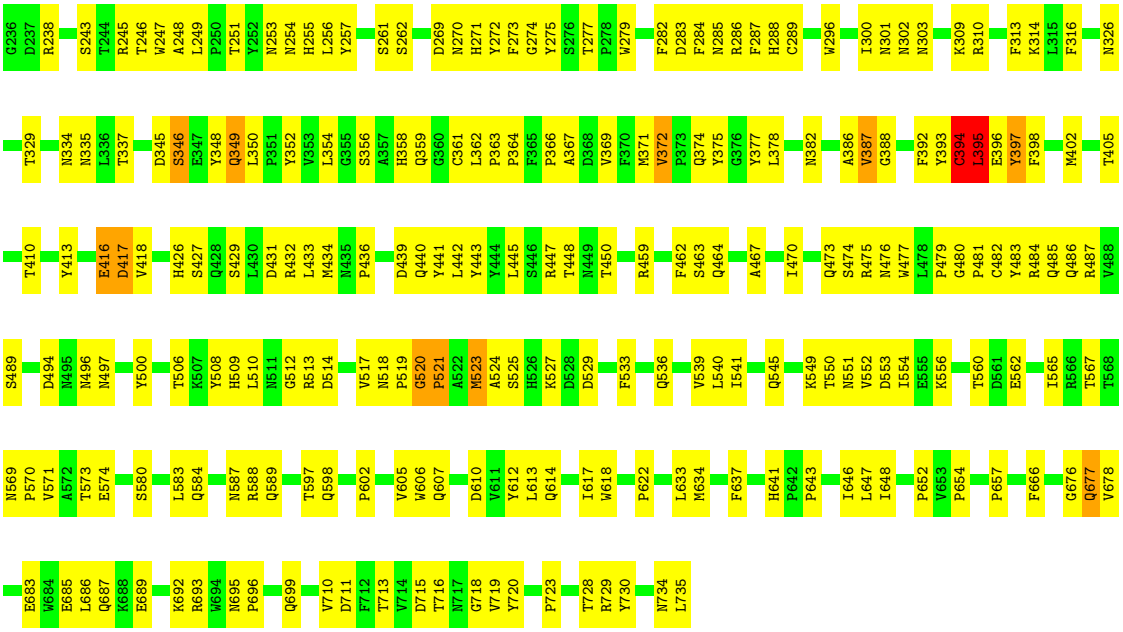
Chain 2:





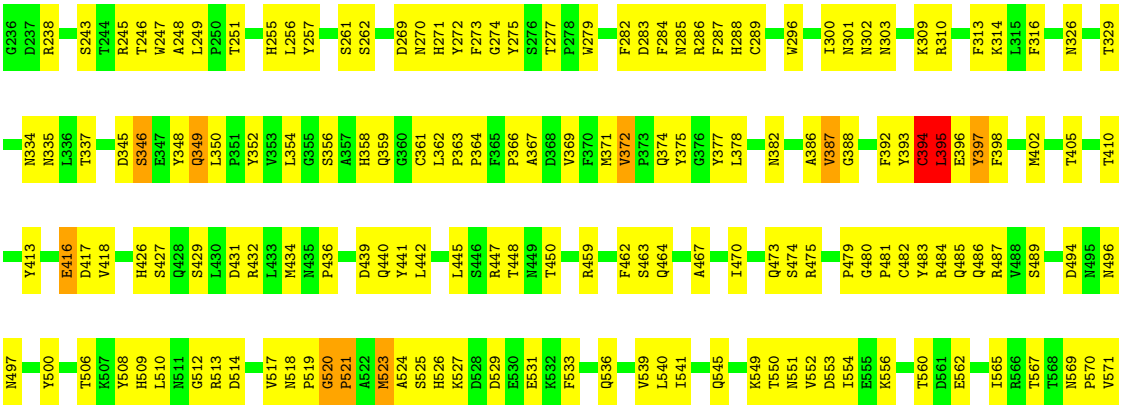
• Molecule 1: Capsid protein VP1

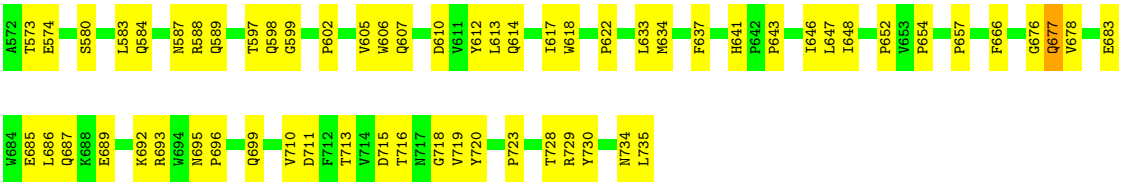
Chain 3:



• Molecule 1: Capsid protein VP1

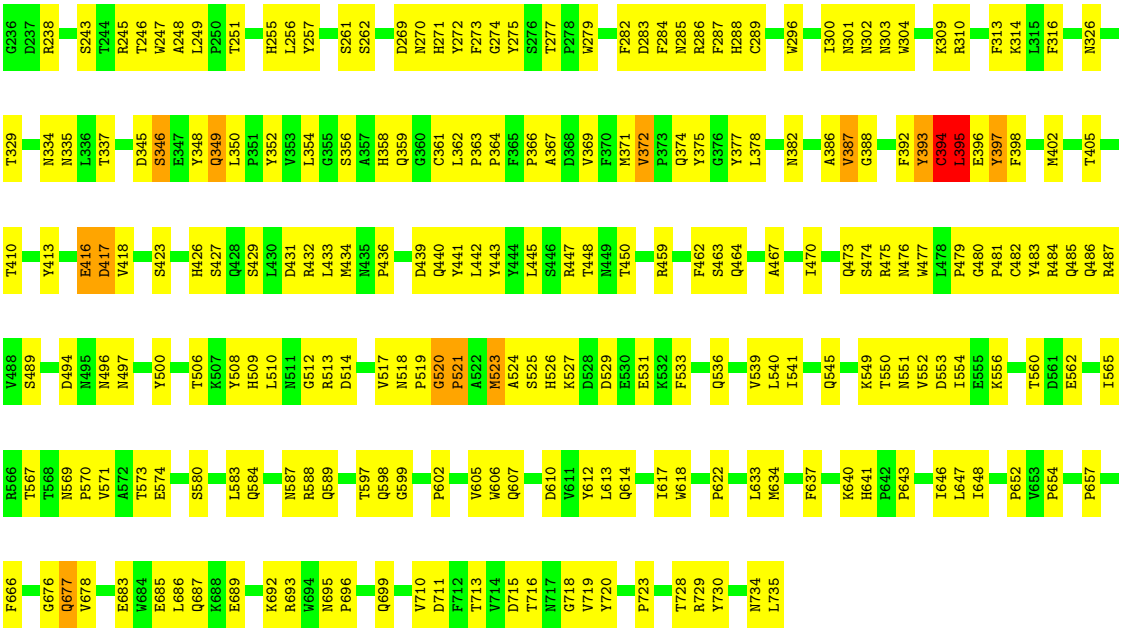
Chain 4:





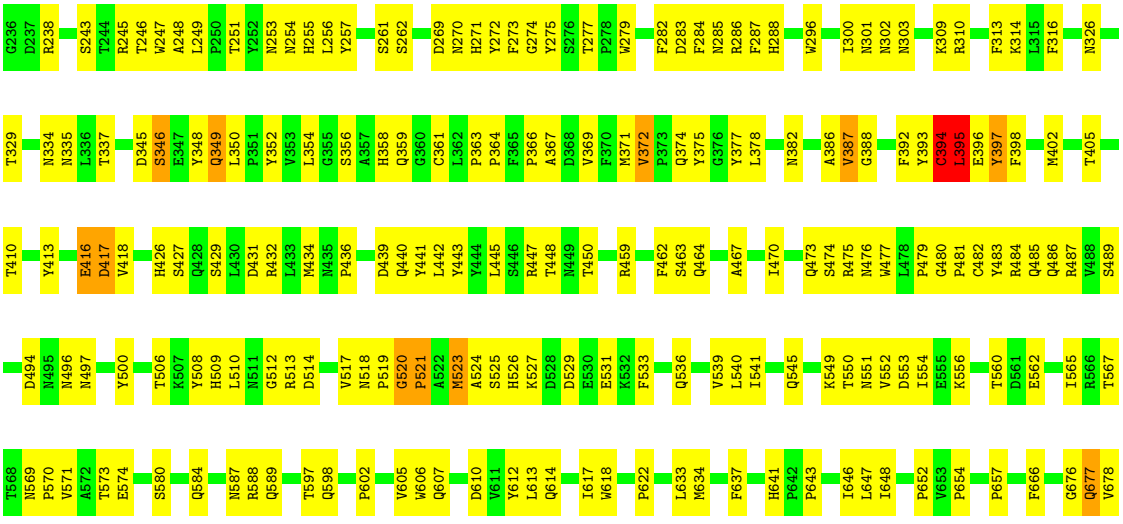
• Molecule 1: Capsid protein VP1

Chain 5:



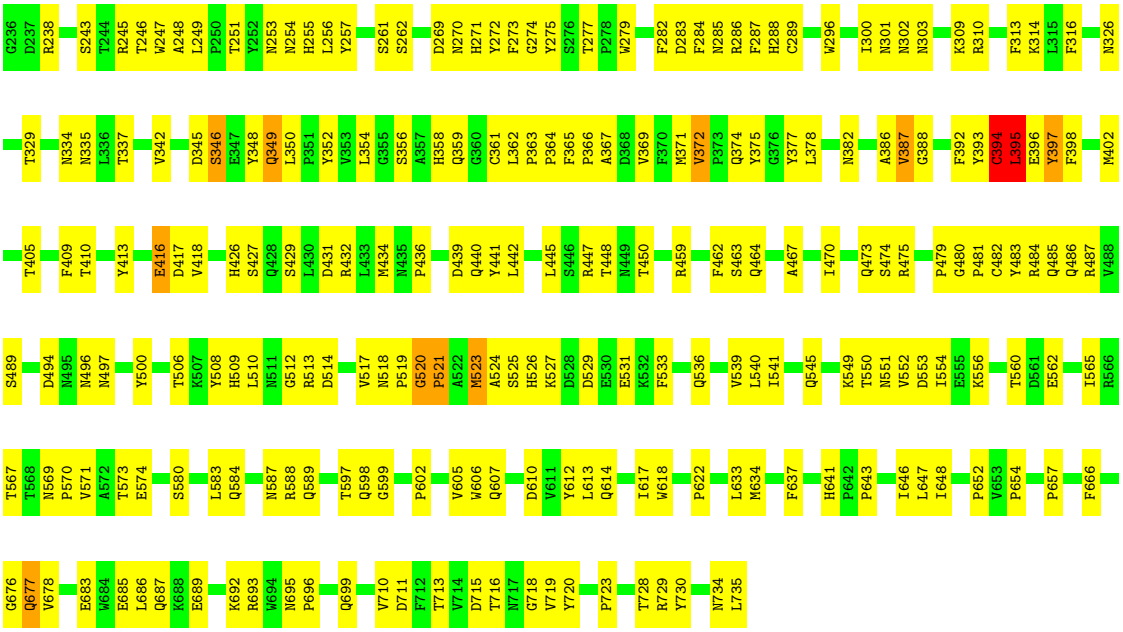
• Molecule 1: Capsid protein VP1

Chain 6:



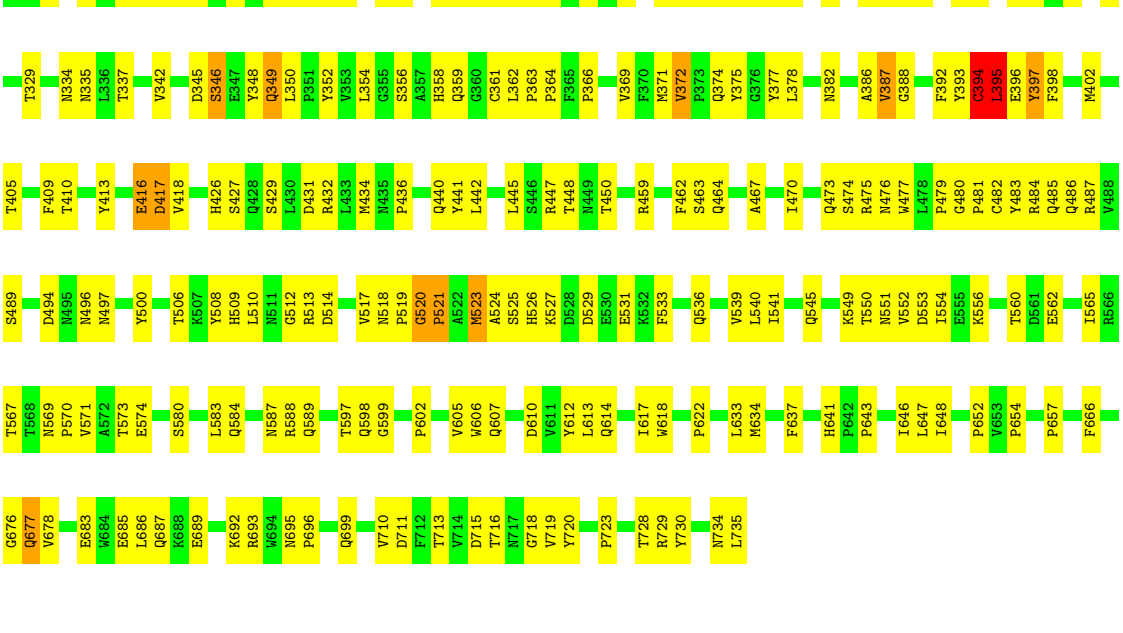
• Molecule 1: Capsid protein VP1

Chain 7:



• Molecule 1: Capsid protein VP1

Chain 8:



4 Experimental information (i)

Property	Value	Source
EM reconstruction method	SINGLE PARTICLE	Depositor
Imposed symmetry	POINT, Not provided	
Number of particles used	23783	Depositor
Resolution determination method	FSC 0.143 CUT-OFF	Depositor
CTF correction method	PHASE FLIPPING AND AMPLITUDE CORRECTION	Depositor
Microscope	FEI TITAN KRIOS	Depositor
Voltage (kV)	300	Depositor
Electron dose ($e^-/Å^2$)	60	Depositor
Minimum defocus (nm)	1000	Depositor
Maximum defocus (nm)	2500	Depositor
Magnification	Not provided	
Image detector	DIRECT ELECTRON DE-64 (8k x 8k)	Depositor
Maximum map value	15.727	Depositor
Minimum map value	-7.119	Depositor
Average map value	0.000	Depositor
Map value standard deviation	1.000	Depositor
Recommended contour level	1	Depositor
Map size (Å)	384.80002, 384.80002, 384.80002	wwPDB
Map dimensions	400, 400, 400	wwPDB
Map angles (°)	90.0, 90.0, 90.0	wwPDB
Pixel spacing (Å)	0.9620001, 0.9620001, 0.9620001	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	0.44	0/4127	0.73	12/5626 (0.2%)
1	2	0.44	0/4127	0.73	12/5626 (0.2%)
1	3	0.44	0/4127	0.73	12/5626 (0.2%)
1	4	0.44	0/4127	0.73	12/5626 (0.2%)
1	5	0.44	0/4127	0.73	12/5626 (0.2%)
1	6	0.44	0/4127	0.73	12/5626 (0.2%)
1	7	0.44	0/4127	0.73	12/5626 (0.2%)
1	8	0.44	0/4127	0.73	12/5626 (0.2%)
1	A	0.44	0/4127	0.73	12/5626 (0.2%)
1	B	0.44	0/4127	0.73	12/5626 (0.2%)
1	C	0.44	0/4127	0.73	12/5626 (0.2%)
1	D	0.44	0/4127	0.73	12/5626 (0.2%)
1	E	0.44	0/4127	0.73	12/5626 (0.2%)
1	F	0.44	0/4127	0.73	12/5626 (0.2%)
1	G	0.44	0/4127	0.73	12/5626 (0.2%)
1	H	0.44	0/4127	0.73	12/5626 (0.2%)
1	I	0.44	0/4127	0.73	13/5626 (0.2%)
1	J	0.44	0/4127	0.73	12/5626 (0.2%)
1	K	0.44	0/4127	0.73	12/5626 (0.2%)
1	L	0.44	0/4127	0.73	12/5626 (0.2%)
1	M	0.44	0/4127	0.73	12/5626 (0.2%)
1	N	0.44	0/4127	0.73	12/5626 (0.2%)
1	O	0.44	0/4127	0.73	12/5626 (0.2%)
1	P	0.44	0/4127	0.73	12/5626 (0.2%)
1	Q	0.44	0/4127	0.73	13/5626 (0.2%)
1	R	0.44	0/4127	0.73	12/5626 (0.2%)
1	S	0.44	0/4127	0.73	12/5626 (0.2%)
1	T	0.44	0/4127	0.73	13/5626 (0.2%)
1	U	0.44	0/4127	0.73	12/5626 (0.2%)
1	V	0.44	0/4127	0.73	12/5626 (0.2%)
1	W	0.44	0/4127	0.73	12/5626 (0.2%)
1	X	0.44	0/4127	0.73	12/5626 (0.2%)
1	Y	0.44	0/4127	0.73	12/5626 (0.2%)
1	Z	0.44	0/4127	0.73	12/5626 (0.2%)

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	#|Z| >5	RMSZ	#|Z| >5
1	a	0.44	0/4127	0.73	12/5626 (0.2%)
1	b	0.44	0/4127	0.73	12/5626 (0.2%)
1	c	0.44	0/4127	0.73	12/5626 (0.2%)
1	d	0.44	0/4127	0.73	12/5626 (0.2%)
1	e	0.44	0/4127	0.73	12/5626 (0.2%)
1	f	0.44	0/4127	0.73	12/5626 (0.2%)
1	g	0.44	0/4127	0.73	12/5626 (0.2%)
1	h	0.44	0/4127	0.73	12/5626 (0.2%)
1	i	0.44	0/4127	0.73	12/5626 (0.2%)
1	j	0.44	0/4127	0.73	12/5626 (0.2%)
1	k	0.44	0/4127	0.73	12/5626 (0.2%)
1	l	0.44	0/4127	0.73	12/5626 (0.2%)
1	m	0.44	0/4127	0.73	12/5626 (0.2%)
1	n	0.44	0/4127	0.73	12/5626 (0.2%)
1	o	0.44	0/4127	0.73	12/5626 (0.2%)
1	p	0.44	0/4127	0.73	12/5626 (0.2%)
1	q	0.44	0/4127	0.73	12/5626 (0.2%)
1	r	0.44	0/4127	0.73	12/5626 (0.2%)
1	s	0.44	0/4127	0.73	12/5626 (0.2%)
1	t	0.44	0/4127	0.73	12/5626 (0.2%)
1	u	0.44	0/4127	0.73	12/5626 (0.2%)
1	v	0.44	0/4127	0.73	12/5626 (0.2%)
1	w	0.44	0/4127	0.73	12/5626 (0.2%)
1	x	0.44	0/4127	0.73	12/5626 (0.2%)
1	y	0.44	0/4127	0.73	12/5626 (0.2%)
1	z	0.44	0/4127	0.73	12/5626 (0.2%)
All	All	0.44	0/247620	0.73	723/337560 (0.2%)

There are no bond length outliers.

All (723) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	l	393	TYR	CB-CA-C	-13.30	90.44	111.06
1	c	393	TYR	CB-CA-C	-13.30	90.45	111.06
1	d	393	TYR	CB-CA-C	-13.30	90.45	111.06
1	H	393	TYR	CB-CA-C	-13.29	90.47	111.06
1	K	393	TYR	CB-CA-C	-13.28	90.47	111.06
1	G	393	TYR	CB-CA-C	-13.28	90.47	111.06
1	V	393	TYR	CB-CA-C	-13.28	90.47	111.06
1	g	393	TYR	CB-CA-C	-13.28	90.47	111.06
1	w	393	TYR	CB-CA-C	-13.28	90.47	111.06
1	C	393	TYR	CB-CA-C	-13.28	90.48	111.06

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	Q	393	TYR	CB-CA-C	-13.28	90.48	111.06
1	k	393	TYR	CB-CA-C	-13.28	90.48	111.06
1	S	393	TYR	CB-CA-C	-13.27	90.49	111.06
1	q	393	TYR	CB-CA-C	-13.27	90.49	111.06
1	2	393	TYR	CB-CA-C	-13.27	90.49	111.06
1	A	393	TYR	CB-CA-C	-13.27	90.49	111.06
1	E	393	TYR	CB-CA-C	-13.27	90.49	111.06
1	I	393	TYR	CB-CA-C	-13.27	90.49	111.06
1	a	393	TYR	CB-CA-C	-13.27	90.49	111.06
1	b	393	TYR	CB-CA-C	-13.27	90.49	111.06
1	f	393	TYR	CB-CA-C	-13.27	90.49	111.06
1	h	393	TYR	CB-CA-C	-13.27	90.49	111.06
1	m	393	TYR	CB-CA-C	-13.27	90.49	111.06
1	3	393	TYR	CB-CA-C	-13.27	90.49	111.06
1	v	393	TYR	CB-CA-C	-13.27	90.49	111.06
1	4	393	TYR	CB-CA-C	-13.27	90.49	111.06
1	8	393	TYR	CB-CA-C	-13.27	90.49	111.06
1	D	393	TYR	CB-CA-C	-13.27	90.50	111.06
1	N	393	TYR	CB-CA-C	-13.27	90.50	111.06
1	Y	393	TYR	CB-CA-C	-13.27	90.50	111.06
1	P	393	TYR	CB-CA-C	-13.26	90.50	111.06
1	e	393	TYR	CB-CA-C	-13.26	90.50	111.06
1	j	393	TYR	CB-CA-C	-13.26	90.50	111.06
1	s	393	TYR	CB-CA-C	-13.26	90.50	111.06
1	z	393	TYR	CB-CA-C	-13.26	90.50	111.06
1	5	393	TYR	CB-CA-C	-13.26	90.50	111.06
1	n	393	TYR	CB-CA-C	-13.26	90.51	111.06
1	t	393	TYR	CB-CA-C	-13.26	90.51	111.06
1	x	393	TYR	CB-CA-C	-13.26	90.51	111.06
1	F	393	TYR	CB-CA-C	-13.26	90.51	111.06
1	J	393	TYR	CB-CA-C	-13.26	90.51	111.06
1	L	393	TYR	CB-CA-C	-13.26	90.51	111.06
1	U	393	TYR	CB-CA-C	-13.26	90.51	111.06
1	W	393	TYR	CB-CA-C	-13.26	90.51	111.06
1	6	393	TYR	CB-CA-C	-13.26	90.51	111.06
1	p	393	TYR	CB-CA-C	-13.25	90.52	111.06
1	r	393	TYR	CB-CA-C	-13.25	90.52	111.06
1	B	393	TYR	CB-CA-C	-13.25	90.52	111.06
1	M	393	TYR	CB-CA-C	-13.25	90.52	111.06
1	O	393	TYR	CB-CA-C	-13.25	90.52	111.06
1	R	393	TYR	CB-CA-C	-13.25	90.52	111.06
1	X	393	TYR	CB-CA-C	-13.25	90.52	111.06

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	Z	393	TYR	CB-CA-C	-13.25	90.52	111.06
1	o	393	TYR	CB-CA-C	-13.25	90.52	111.06
1	T	393	TYR	CB-CA-C	-13.25	90.53	111.06
1	u	393	TYR	CB-CA-C	-13.25	90.53	111.06
1	i	393	TYR	CB-CA-C	-13.24	90.53	111.06
1	7	393	TYR	CB-CA-C	-13.24	90.53	111.06
1	y	393	TYR	CB-CA-C	-13.24	90.54	111.06
1	1	393	TYR	CB-CA-C	-13.23	90.56	111.06
1	F	393	TYR	N-CA-C	12.50	126.69	112.57
1	X	393	TYR	N-CA-C	12.50	126.69	112.57
1	L	393	TYR	N-CA-C	12.49	126.69	112.57
1	z	393	TYR	N-CA-C	12.49	126.69	112.57
1	C	393	TYR	N-CA-C	12.49	126.69	112.57
1	s	393	TYR	N-CA-C	12.49	126.68	112.57
1	G	393	TYR	N-CA-C	12.48	126.67	112.57
1	r	393	TYR	N-CA-C	12.48	126.67	112.57
1	M	393	TYR	N-CA-C	12.48	126.67	112.57
1	O	393	TYR	N-CA-C	12.48	126.67	112.57
1	o	393	TYR	N-CA-C	12.48	126.67	112.57
1	1	393	TYR	N-CA-C	12.47	126.67	112.57
1	K	393	TYR	N-CA-C	12.47	126.66	112.57
1	Q	393	TYR	N-CA-C	12.47	126.66	112.57
1	n	393	TYR	N-CA-C	12.47	126.66	112.57
1	q	393	TYR	N-CA-C	12.47	126.66	112.57
1	D	393	TYR	N-CA-C	12.47	126.66	112.57
1	N	393	TYR	N-CA-C	12.47	126.66	112.57
1	Y	393	TYR	N-CA-C	12.47	126.66	112.57
1	b	393	TYR	N-CA-C	12.47	126.66	112.57
1	v	393	TYR	N-CA-C	12.47	126.66	112.57
1	Z	393	TYR	N-CA-C	12.47	126.66	112.57
1	2	393	TYR	N-CA-C	12.47	126.66	112.57
1	S	393	TYR	N-CA-C	12.46	126.65	112.57
1	j	393	TYR	N-CA-C	12.46	126.65	112.57
1	l	393	TYR	N-CA-C	12.46	126.65	112.57
1	w	393	TYR	N-CA-C	12.46	126.65	112.57
1	5	393	TYR	N-CA-C	12.46	126.65	112.57
1	d	393	TYR	N-CA-C	12.45	126.64	112.57
1	A	393	TYR	N-CA-C	12.45	126.64	112.57
1	a	393	TYR	N-CA-C	12.45	126.64	112.57
1	f	393	TYR	N-CA-C	12.45	126.64	112.57
1	3	393	TYR	N-CA-C	12.45	126.64	112.57
1	e	393	TYR	N-CA-C	12.45	126.64	112.57

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	H	393	TYR	N-CA-C	12.45	126.63	112.57
1	P	393	TYR	N-CA-C	12.45	126.63	112.57
1	W	393	TYR	N-CA-C	12.45	126.63	112.57
1	k	393	TYR	N-CA-C	12.45	126.63	112.57
1	8	393	TYR	N-CA-C	12.45	126.64	112.57
1	t	393	TYR	N-CA-C	12.45	126.63	112.57
1	y	393	TYR	N-CA-C	12.45	126.63	112.57
1	4	393	TYR	N-CA-C	12.45	126.63	112.57
1	6	393	TYR	N-CA-C	12.45	126.63	112.57
1	V	393	TYR	N-CA-C	12.44	126.63	112.57
1	c	393	TYR	N-CA-C	12.44	126.63	112.57
1	g	393	TYR	N-CA-C	12.44	126.63	112.57
1	p	393	TYR	N-CA-C	12.44	126.63	112.57
1	B	393	TYR	N-CA-C	12.44	126.62	112.57
1	E	393	TYR	N-CA-C	12.44	126.62	112.57
1	R	393	TYR	N-CA-C	12.44	126.62	112.57
1	U	393	TYR	N-CA-C	12.44	126.62	112.57
1	I	393	TYR	N-CA-C	12.43	126.62	112.57
1	i	393	TYR	N-CA-C	12.43	126.62	112.57
1	m	393	TYR	N-CA-C	12.43	126.62	112.57
1	7	393	TYR	N-CA-C	12.43	126.62	112.57
1	T	393	TYR	N-CA-C	12.43	126.61	112.57
1	J	393	TYR	N-CA-C	12.42	126.60	112.57
1	h	393	TYR	N-CA-C	12.42	126.60	112.57
1	u	393	TYR	N-CA-C	12.40	126.58	112.57
1	x	393	TYR	N-CA-C	12.40	126.58	112.57
1	N	641	HIS	CA-C-N	9.24	129.90	120.38
1	N	641	HIS	C-N-CA	9.24	129.90	120.38
1	Q	641	HIS	CA-C-N	9.24	129.89	120.38
1	Q	641	HIS	C-N-CA	9.24	129.89	120.38
1	E	641	HIS	CA-C-N	9.22	129.88	120.38
1	E	641	HIS	C-N-CA	9.22	129.88	120.38
1	B	641	HIS	CA-C-N	9.22	129.88	120.38
1	B	641	HIS	C-N-CA	9.22	129.88	120.38
1	I	641	HIS	CA-C-N	9.22	129.88	120.38
1	I	641	HIS	C-N-CA	9.22	129.88	120.38
1	m	641	HIS	CA-C-N	9.22	129.88	120.38
1	m	641	HIS	C-N-CA	9.22	129.88	120.38
1	p	641	HIS	CA-C-N	9.22	129.88	120.38
1	p	641	HIS	C-N-CA	9.22	129.88	120.38
1	4	641	HIS	CA-C-N	9.22	129.88	120.38
1	4	641	HIS	C-N-CA	9.22	129.88	120.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	h	641	HIS	CA-C-N	9.22	129.87	120.38
1	h	641	HIS	C-N-CA	9.22	129.87	120.38
1	o	641	HIS	CA-C-N	9.22	129.87	120.38
1	o	641	HIS	C-N-CA	9.22	129.87	120.38
1	J	641	HIS	CA-C-N	9.21	129.87	120.38
1	J	641	HIS	C-N-CA	9.21	129.87	120.38
1	i	641	HIS	CA-C-N	9.21	129.87	120.38
1	i	641	HIS	C-N-CA	9.21	129.87	120.38
1	7	641	HIS	CA-C-N	9.21	129.87	120.38
1	7	641	HIS	C-N-CA	9.21	129.87	120.38
1	W	641	HIS	CA-C-N	9.21	129.86	120.38
1	W	641	HIS	C-N-CA	9.21	129.86	120.38
1	k	641	HIS	CA-C-N	9.21	129.87	120.38
1	k	641	HIS	C-N-CA	9.21	129.87	120.38
1	q	641	HIS	CA-C-N	9.21	129.87	120.38
1	q	641	HIS	C-N-CA	9.21	129.87	120.38
1	r	641	HIS	CA-C-N	9.21	129.87	120.38
1	r	641	HIS	C-N-CA	9.21	129.87	120.38
1	1	641	HIS	CA-C-N	9.21	129.86	120.38
1	1	641	HIS	C-N-CA	9.21	129.86	120.38
1	2	641	HIS	CA-C-N	9.21	129.87	120.38
1	2	641	HIS	C-N-CA	9.21	129.87	120.38
1	L	641	HIS	CA-C-N	9.20	129.86	120.38
1	L	641	HIS	C-N-CA	9.20	129.86	120.38
1	O	641	HIS	CA-C-N	9.20	129.86	120.38
1	O	641	HIS	C-N-CA	9.20	129.86	120.38
1	U	641	HIS	CA-C-N	9.20	129.86	120.38
1	U	641	HIS	C-N-CA	9.20	129.86	120.38
1	S	641	HIS	CA-C-N	9.20	129.85	120.38
1	S	641	HIS	C-N-CA	9.20	129.85	120.38
1	w	641	HIS	CA-C-N	9.20	129.85	120.38
1	w	641	HIS	C-N-CA	9.20	129.85	120.38
1	A	641	HIS	CA-C-N	9.19	129.85	120.38
1	A	641	HIS	C-N-CA	9.19	129.85	120.38
1	F	641	HIS	CA-C-N	9.19	129.85	120.38
1	F	641	HIS	C-N-CA	9.19	129.85	120.38
1	a	641	HIS	CA-C-N	9.19	129.85	120.38
1	a	641	HIS	C-N-CA	9.19	129.85	120.38
1	b	641	HIS	CA-C-N	9.19	129.85	120.38
1	b	641	HIS	C-N-CA	9.19	129.85	120.38
1	c	641	HIS	CA-C-N	9.19	129.85	120.38
1	c	641	HIS	C-N-CA	9.19	129.85	120.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	d	641	HIS	CA-C-N	9.19	129.85	120.38
1	d	641	HIS	C-N-CA	9.19	129.85	120.38
1	n	641	HIS	CA-C-N	9.19	129.85	120.38
1	n	641	HIS	C-N-CA	9.19	129.85	120.38
1	y	641	HIS	CA-C-N	9.19	129.85	120.38
1	y	641	HIS	C-N-CA	9.19	129.85	120.38
1	3	641	HIS	CA-C-N	9.19	129.85	120.38
1	3	641	HIS	C-N-CA	9.19	129.85	120.38
1	C	641	HIS	CA-C-N	9.19	129.85	120.38
1	C	641	HIS	C-N-CA	9.19	129.85	120.38
1	M	641	HIS	CA-C-N	9.19	129.85	120.38
1	M	641	HIS	C-N-CA	9.19	129.85	120.38
1	l	641	HIS	CA-C-N	9.19	129.85	120.38
1	l	641	HIS	C-N-CA	9.19	129.85	120.38
1	f	641	HIS	CA-C-N	9.19	129.84	120.38
1	f	641	HIS	C-N-CA	9.19	129.84	120.38
1	s	641	HIS	CA-C-N	9.18	129.84	120.38
1	s	641	HIS	C-N-CA	9.18	129.84	120.38
1	D	641	HIS	CA-C-N	9.18	129.84	120.38
1	D	641	HIS	C-N-CA	9.18	129.84	120.38
1	H	641	HIS	CA-C-N	9.18	129.84	120.38
1	H	641	HIS	C-N-CA	9.18	129.84	120.38
1	P	641	HIS	CA-C-N	9.18	129.84	120.38
1	P	641	HIS	C-N-CA	9.18	129.84	120.38
1	z	641	HIS	CA-C-N	9.18	129.84	120.38
1	z	641	HIS	C-N-CA	9.18	129.84	120.38
1	5	641	HIS	CA-C-N	9.18	129.84	120.38
1	5	641	HIS	C-N-CA	9.18	129.84	120.38
1	6	641	HIS	CA-C-N	9.18	129.84	120.38
1	6	641	HIS	C-N-CA	9.18	129.84	120.38
1	u	641	HIS	CA-C-N	9.18	129.84	120.38
1	u	641	HIS	C-N-CA	9.18	129.84	120.38
1	x	641	HIS	CA-C-N	9.18	129.84	120.38
1	x	641	HIS	C-N-CA	9.18	129.84	120.38
1	G	641	HIS	CA-C-N	9.18	129.83	120.38
1	G	641	HIS	C-N-CA	9.18	129.83	120.38
1	t	641	HIS	CA-C-N	9.18	129.83	120.38
1	t	641	HIS	C-N-CA	9.18	129.83	120.38
1	K	641	HIS	CA-C-N	9.17	129.83	120.38
1	K	641	HIS	C-N-CA	9.17	129.83	120.38
1	T	641	HIS	CA-C-N	9.17	129.83	120.38
1	T	641	HIS	C-N-CA	9.17	129.83	120.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	R	641	HIS	CA-C-N	9.17	129.83	120.38
1	R	641	HIS	C-N-CA	9.17	129.83	120.38
1	X	641	HIS	CA-C-N	9.17	129.82	120.38
1	X	641	HIS	C-N-CA	9.17	129.82	120.38
1	Y	641	HIS	CA-C-N	9.17	129.82	120.38
1	Y	641	HIS	C-N-CA	9.17	129.82	120.38
1	e	641	HIS	CA-C-N	9.16	129.82	120.38
1	e	641	HIS	C-N-CA	9.16	129.82	120.38
1	j	641	HIS	CA-C-N	9.16	129.82	120.38
1	j	641	HIS	C-N-CA	9.16	129.82	120.38
1	v	641	HIS	CA-C-N	9.16	129.82	120.38
1	v	641	HIS	C-N-CA	9.16	129.82	120.38
1	Z	641	HIS	CA-C-N	9.15	129.81	120.38
1	Z	641	HIS	C-N-CA	9.15	129.81	120.38
1	8	641	HIS	CA-C-N	9.15	129.81	120.38
1	8	641	HIS	C-N-CA	9.15	129.81	120.38
1	V	641	HIS	CA-C-N	9.15	129.81	120.38
1	V	641	HIS	C-N-CA	9.15	129.81	120.38
1	g	641	HIS	CA-C-N	9.13	129.79	120.38
1	g	641	HIS	C-N-CA	9.13	129.79	120.38
1	E	641	HIS	CB-CA-C	7.99	120.83	110.13
1	M	641	HIS	CB-CA-C	7.99	120.83	110.13
1	i	641	HIS	CB-CA-C	7.99	120.83	110.13
1	7	641	HIS	CB-CA-C	7.99	120.83	110.13
1	L	641	HIS	N-CA-C	-7.99	93.84	108.85
1	U	641	HIS	N-CA-C	-7.99	93.84	108.85
1	2	641	HIS	CB-CA-C	7.99	120.83	110.13
1	J	641	HIS	N-CA-C	-7.98	93.84	108.85
1	O	641	HIS	CB-CA-C	7.98	120.83	110.13
1	X	641	HIS	CB-CA-C	7.98	120.83	110.13
1	t	641	HIS	CB-CA-C	7.98	120.83	110.13
1	w	641	HIS	N-CA-C	-7.98	93.84	108.85
1	I	641	HIS	N-CA-C	-7.98	93.85	108.85
1	Z	641	HIS	N-CA-C	-7.98	93.85	108.85
1	d	641	HIS	CB-CA-C	7.98	120.82	110.13
1	i	641	HIS	N-CA-C	-7.98	93.85	108.85
1	o	394	CYS	N-CA-C	7.98	127.79	110.80
1	y	641	HIS	N-CA-C	-7.98	93.85	108.85
1	7	641	HIS	N-CA-C	-7.98	93.85	108.85
1	H	641	HIS	CB-CA-C	7.98	120.82	110.13
1	B	641	HIS	N-CA-C	-7.97	93.86	108.85
1	s	641	HIS	N-CA-C	-7.97	93.86	108.85

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	z	641	HIS	N-CA-C	-7.97	93.86	108.85
1	1	641	HIS	N-CA-C	-7.97	93.86	108.85
1	K	641	HIS	CB-CA-C	7.97	120.81	110.13
1	N	641	HIS	N-CA-C	-7.97	93.86	108.85
1	Y	641	HIS	N-CA-C	-7.97	93.86	108.85
1	m	641	HIS	CB-CA-C	7.97	120.81	110.13
1	p	641	HIS	CB-CA-C	7.97	120.81	110.13
1	4	641	HIS	CB-CA-C	7.97	120.81	110.13
1	c	394	CYS	N-CA-C	7.97	127.78	110.80
1	f	394	CYS	N-CA-C	7.97	127.78	110.80
1	C	641	HIS	CB-CA-C	7.97	120.81	110.13
1	T	641	HIS	CB-CA-C	7.97	120.81	110.13
1	j	394	CYS	N-CA-C	7.97	127.78	110.80
1	1	641	HIS	CB-CA-C	7.97	120.81	110.13
1	E	641	HIS	N-CA-C	-7.97	93.87	108.85
1	F	641	HIS	CB-CA-C	7.97	120.81	110.13
1	H	641	HIS	N-CA-C	-7.97	93.87	108.85
1	R	394	CYS	N-CA-C	7.97	127.77	110.80
1	f	641	HIS	CB-CA-C	7.97	120.81	110.13
1	m	641	HIS	N-CA-C	-7.97	93.87	108.85
1	n	641	HIS	CB-CA-C	7.97	120.81	110.13
1	4	641	HIS	N-CA-C	-7.97	93.87	108.85
1	A	641	HIS	N-CA-C	-7.96	93.88	108.85
1	C	394	CYS	N-CA-C	7.96	127.76	110.80
1	F	641	HIS	N-CA-C	-7.96	93.88	108.85
1	H	394	CYS	N-CA-C	7.96	127.76	110.80
1	K	394	CYS	N-CA-C	7.96	127.76	110.80
1	M	641	HIS	N-CA-C	-7.96	93.88	108.85
1	V	394	CYS	N-CA-C	7.96	127.76	110.80
1	a	641	HIS	N-CA-C	-7.96	93.88	108.85
1	b	641	HIS	N-CA-C	-7.96	93.88	108.85
1	d	641	HIS	N-CA-C	-7.96	93.88	108.85
1	f	641	HIS	N-CA-C	-7.96	93.88	108.85
1	g	394	CYS	N-CA-C	7.96	127.76	110.80
1	k	394	CYS	N-CA-C	7.96	127.76	110.80
1	l	394	CYS	N-CA-C	7.96	127.76	110.80
1	n	641	HIS	N-CA-C	-7.96	93.88	108.85
1	p	394	CYS	N-CA-C	7.96	127.76	110.80
1	r	641	HIS	N-CA-C	-7.96	93.88	108.85
1	t	394	CYS	N-CA-C	7.96	127.77	110.80
1	w	394	CYS	N-CA-C	7.96	127.77	110.80
1	w	641	HIS	CB-CA-C	7.96	120.80	110.13

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	3	641	HIS	N-CA-C	-7.96	93.88	108.85
1	5	394	CYS	N-CA-C	7.96	127.76	110.80
1	P	394	CYS	N-CA-C	7.96	127.76	110.80
1	V	641	HIS	N-CA-C	-7.96	93.88	108.85
1	6	394	CYS	N-CA-C	7.96	127.76	110.80
1	B	394	CYS	N-CA-C	7.96	127.76	110.80
1	D	641	HIS	N-CA-C	-7.96	93.88	108.85
1	P	641	HIS	N-CA-C	-7.96	93.88	108.85
1	Q	641	HIS	N-CA-C	-7.96	93.88	108.85
1	S	641	HIS	N-CA-C	-7.96	93.88	108.85
1	U	394	CYS	N-CA-C	7.96	127.76	110.80
1	d	394	CYS	N-CA-C	7.96	127.76	110.80
1	j	641	HIS	N-CA-C	-7.96	93.88	108.85
1	2	641	HIS	N-CA-C	-7.96	93.88	108.85
1	5	641	HIS	N-CA-C	-7.96	93.88	108.85
1	W	641	HIS	N-CA-C	-7.96	93.89	108.85
1	k	641	HIS	N-CA-C	-7.96	93.89	108.85
1	C	641	HIS	N-CA-C	-7.96	93.89	108.85
1	G	641	HIS	CB-CA-C	7.96	120.79	110.13
1	N	641	HIS	CB-CA-C	7.96	120.79	110.13
1	R	641	HIS	N-CA-C	-7.96	93.89	108.85
1	T	641	HIS	N-CA-C	-7.96	93.89	108.85
1	W	641	HIS	CB-CA-C	7.96	120.79	110.13
1	Y	641	HIS	CB-CA-C	7.96	120.79	110.13
1	h	641	HIS	N-CA-C	-7.96	93.89	108.85
1	k	641	HIS	CB-CA-C	7.96	120.79	110.13
1	o	641	HIS	N-CA-C	-7.96	93.89	108.85
1	8	641	HIS	N-CA-C	-7.96	93.89	108.85
1	A	394	CYS	N-CA-C	7.96	127.75	110.80
1	A	641	HIS	CB-CA-C	7.96	120.79	110.13
1	B	641	HIS	CB-CA-C	7.96	120.79	110.13
1	G	641	HIS	N-CA-C	-7.96	93.89	108.85
1	J	394	CYS	N-CA-C	7.96	127.75	110.80
1	J	641	HIS	CB-CA-C	7.96	120.79	110.13
1	K	641	HIS	N-CA-C	-7.96	93.89	108.85
1	a	394	CYS	N-CA-C	7.96	127.75	110.80
1	a	641	HIS	CB-CA-C	7.96	120.79	110.13
1	b	394	CYS	N-CA-C	7.96	127.75	110.80
1	b	641	HIS	CB-CA-C	7.96	120.79	110.13
1	c	641	HIS	N-CA-C	-7.96	93.89	108.85
1	l	641	HIS	N-CA-C	-7.96	93.89	108.85
1	p	641	HIS	N-CA-C	-7.96	93.89	108.85

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	r	394	CYS	N-CA-C	7.96	127.75	110.80
1	s	641	HIS	CB-CA-C	7.96	120.79	110.13
1	v	394	CYS	N-CA-C	7.96	127.75	110.80
1	z	641	HIS	CB-CA-C	7.96	120.79	110.13
1	3	641	HIS	CB-CA-C	7.96	120.79	110.13
1	D	641	HIS	CB-CA-C	7.96	120.79	110.13
1	W	394	CYS	N-CA-C	7.96	127.74	110.80
1	X	394	CYS	N-CA-C	7.96	127.74	110.80
1	e	394	CYS	N-CA-C	7.96	127.74	110.80
1	q	641	HIS	N-CA-C	-7.96	93.89	108.85
1	y	394	CYS	N-CA-C	7.96	127.74	110.80
1	8	394	CYS	N-CA-C	7.96	127.74	110.80
1	E	394	CYS	N-CA-C	7.95	127.74	110.80
1	g	641	HIS	N-CA-C	-7.95	93.90	108.85
1	G	394	CYS	N-CA-C	7.95	127.73	110.80
1	M	394	CYS	N-CA-C	7.95	127.74	110.80
1	S	394	CYS	N-CA-C	7.95	127.73	110.80
1	Z	394	CYS	N-CA-C	7.95	127.74	110.80
1	c	641	HIS	CB-CA-C	7.95	120.78	110.13
1	L	641	HIS	CB-CA-C	7.95	120.78	110.13
1	U	641	HIS	CB-CA-C	7.95	120.78	110.13
1	e	641	HIS	N-CA-C	-7.95	93.91	108.85
1	u	641	HIS	N-CA-C	-7.95	93.91	108.85
1	v	641	HIS	N-CA-C	-7.95	93.91	108.85
1	x	641	HIS	N-CA-C	-7.95	93.91	108.85
1	6	641	HIS	N-CA-C	-7.95	93.91	108.85
1	D	394	CYS	N-CA-C	7.95	127.73	110.80
1	I	394	CYS	N-CA-C	7.95	127.73	110.80
1	N	394	CYS	N-CA-C	7.95	127.73	110.80
1	Q	394	CYS	N-CA-C	7.95	127.73	110.80
1	T	394	CYS	N-CA-C	7.95	127.73	110.80
1	Y	394	CYS	N-CA-C	7.95	127.73	110.80
1	m	394	CYS	N-CA-C	7.95	127.73	110.80
1	q	394	CYS	N-CA-C	7.95	127.73	110.80
1	u	394	CYS	N-CA-C	7.95	127.73	110.80
1	x	394	CYS	N-CA-C	7.95	127.73	110.80
1	3	394	CYS	N-CA-C	7.95	127.73	110.80
1	4	394	CYS	N-CA-C	7.95	127.73	110.80
1	O	394	CYS	N-CA-C	7.95	127.72	110.80
1	O	641	HIS	N-CA-C	-7.95	93.91	108.85
1	X	641	HIS	N-CA-C	-7.95	93.91	108.85
1	h	394	CYS	N-CA-C	7.95	127.72	110.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	l	641	HIS	CB-CA-C	7.95	120.78	110.13
1	n	394	CYS	N-CA-C	7.95	127.72	110.80
1	t	641	HIS	N-CA-C	-7.95	93.91	108.85
1	1	394	CYS	N-CA-C	7.94	127.72	110.80
1	F	394	CYS	N-CA-C	7.94	127.71	110.80
1	7	394	CYS	N-CA-C	7.94	127.71	110.80
1	Z	641	HIS	CB-CA-C	7.94	120.77	110.13
1	e	641	HIS	CB-CA-C	7.94	120.77	110.13
1	i	394	CYS	N-CA-C	7.94	127.71	110.80
1	v	641	HIS	CB-CA-C	7.94	120.77	110.13
1	y	641	HIS	CB-CA-C	7.94	120.77	110.13
1	L	394	CYS	N-CA-C	7.94	127.71	110.80
1	s	394	CYS	N-CA-C	7.94	127.71	110.80
1	z	394	CYS	N-CA-C	7.94	127.71	110.80
1	q	641	HIS	CB-CA-C	7.94	120.76	110.13
1	r	641	HIS	CB-CA-C	7.94	120.76	110.13
1	j	641	HIS	CB-CA-C	7.93	120.76	110.13
1	2	394	CYS	N-CA-C	7.93	127.70	110.80
1	6	641	HIS	CB-CA-C	7.93	120.76	110.13
1	I	641	HIS	CB-CA-C	7.93	120.75	110.13
1	Q	641	HIS	CB-CA-C	7.93	120.75	110.13
1	u	641	HIS	CB-CA-C	7.93	120.76	110.13
1	x	641	HIS	CB-CA-C	7.93	120.76	110.13
1	V	641	HIS	CB-CA-C	7.93	120.75	110.13
1	g	641	HIS	CB-CA-C	7.93	120.75	110.13
1	S	641	HIS	CB-CA-C	7.92	120.75	110.13
1	h	641	HIS	CB-CA-C	7.92	120.75	110.13
1	o	641	HIS	CB-CA-C	7.92	120.75	110.13
1	8	641	HIS	CB-CA-C	7.92	120.75	110.13
1	P	641	HIS	CB-CA-C	7.92	120.75	110.13
1	5	641	HIS	CB-CA-C	7.92	120.75	110.13
1	R	641	HIS	CB-CA-C	7.92	120.74	110.13
1	K	372	VAL	CB-CA-C	7.46	124.94	111.36
1	u	372	VAL	CB-CA-C	7.46	124.94	111.36
1	x	372	VAL	CB-CA-C	7.46	124.94	111.36
1	4	372	VAL	CB-CA-C	7.45	124.92	111.36
1	t	372	VAL	CB-CA-C	7.45	124.92	111.36
1	W	372	VAL	CB-CA-C	7.45	124.92	111.36
1	B	372	VAL	CB-CA-C	7.45	124.91	111.36
1	1	372	VAL	CB-CA-C	7.45	124.91	111.36
1	Y	372	VAL	CB-CA-C	7.44	124.90	111.36
1	c	372	VAL	CB-CA-C	7.44	124.90	111.36

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	h	372	VAL	CB-CA-C	7.44	124.90	111.36
1	l	372	VAL	CB-CA-C	7.44	124.90	111.36
1	o	372	VAL	CB-CA-C	7.44	124.90	111.36
1	8	372	VAL	CB-CA-C	7.44	124.90	111.36
1	i	372	VAL	CB-CA-C	7.44	124.90	111.36
1	6	372	VAL	CB-CA-C	7.44	124.90	111.36
1	7	372	VAL	CB-CA-C	7.44	124.90	111.36
1	O	372	VAL	CB-CA-C	7.43	124.89	111.36
1	Z	372	VAL	CB-CA-C	7.43	124.89	111.36
1	A	372	VAL	CB-CA-C	7.43	124.89	111.36
1	N	372	VAL	CB-CA-C	7.43	124.89	111.36
1	V	372	VAL	CB-CA-C	7.43	124.89	111.36
1	a	372	VAL	CB-CA-C	7.43	124.89	111.36
1	d	372	VAL	CB-CA-C	7.43	124.89	111.36
1	f	372	VAL	CB-CA-C	7.43	124.89	111.36
1	g	372	VAL	CB-CA-C	7.43	124.89	111.36
1	v	372	VAL	CB-CA-C	7.43	124.89	111.36
1	y	372	VAL	CB-CA-C	7.43	124.89	111.36
1	z	372	VAL	CB-CA-C	7.43	124.89	111.36
1	3	372	VAL	CB-CA-C	7.43	124.89	111.36
1	j	372	VAL	CB-CA-C	7.43	124.88	111.36
1	G	372	VAL	CB-CA-C	7.43	124.88	111.36
1	I	372	VAL	CB-CA-C	7.43	124.88	111.36
1	Q	372	VAL	CB-CA-C	7.43	124.88	111.36
1	S	372	VAL	CB-CA-C	7.43	124.88	111.36
1	k	372	VAL	CB-CA-C	7.43	124.88	111.36
1	m	372	VAL	CB-CA-C	7.43	124.88	111.36
1	p	372	VAL	CB-CA-C	7.43	124.88	111.36
1	r	372	VAL	CB-CA-C	7.43	124.88	111.36
1	2	372	VAL	CB-CA-C	7.43	124.88	111.36
1	J	372	VAL	CB-CA-C	7.43	124.88	111.36
1	L	372	VAL	CB-CA-C	7.43	124.88	111.36
1	R	372	VAL	CB-CA-C	7.43	124.88	111.36
1	U	372	VAL	CB-CA-C	7.43	124.88	111.36
1	s	372	VAL	CB-CA-C	7.43	124.88	111.36
1	q	372	VAL	CB-CA-C	7.43	124.88	111.36
1	C	372	VAL	CB-CA-C	7.42	124.87	111.36
1	F	372	VAL	CB-CA-C	7.42	124.87	111.36
1	M	372	VAL	CB-CA-C	7.42	124.87	111.36
1	X	372	VAL	CB-CA-C	7.42	124.87	111.36
1	w	372	VAL	CB-CA-C	7.42	124.87	111.36
1	5	372	VAL	CB-CA-C	7.42	124.87	111.36

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	T	372	VAL	CB-CA-C	7.42	124.86	111.36
1	b	372	VAL	CB-CA-C	7.42	124.86	111.36
1	n	372	VAL	CB-CA-C	7.42	124.86	111.36
1	D	372	VAL	CB-CA-C	7.42	124.86	111.36
1	P	372	VAL	CB-CA-C	7.42	124.86	111.36
1	e	372	VAL	CB-CA-C	7.42	124.86	111.36
1	E	372	VAL	CB-CA-C	7.41	124.85	111.36
1	H	372	VAL	CB-CA-C	7.41	124.84	111.36
1	P	520	GLY	CA-C-N	6.91	128.48	119.84
1	P	520	GLY	C-N-CA	6.91	128.48	119.84
1	O	520	GLY	CA-C-N	6.91	128.47	119.84
1	O	520	GLY	C-N-CA	6.91	128.47	119.84
1	K	520	GLY	CA-C-N	6.90	128.47	119.84
1	K	520	GLY	C-N-CA	6.90	128.47	119.84
1	T	520	GLY	CA-C-N	6.90	128.47	119.84
1	T	520	GLY	C-N-CA	6.90	128.47	119.84
1	v	520	GLY	CA-C-N	6.90	128.47	119.84
1	v	520	GLY	C-N-CA	6.90	128.47	119.84
1	y	520	GLY	CA-C-N	6.90	128.47	119.84
1	y	520	GLY	C-N-CA	6.90	128.47	119.84
1	R	520	GLY	CA-C-N	6.90	128.46	119.84
1	R	520	GLY	C-N-CA	6.90	128.46	119.84
1	5	520	GLY	CA-C-N	6.90	128.46	119.84
1	5	520	GLY	C-N-CA	6.90	128.46	119.84
1	H	520	GLY	CA-C-N	6.89	128.46	119.84
1	H	520	GLY	C-N-CA	6.89	128.46	119.84
1	a	520	GLY	CA-C-N	6.89	128.45	119.84
1	a	520	GLY	C-N-CA	6.89	128.45	119.84
1	d	520	GLY	CA-C-N	6.89	128.45	119.84
1	d	520	GLY	C-N-CA	6.89	128.45	119.84
1	2	520	GLY	CA-C-N	6.89	128.45	119.84
1	2	520	GLY	C-N-CA	6.89	128.45	119.84
1	b	520	GLY	CA-C-N	6.88	128.44	119.84
1	b	520	GLY	C-N-CA	6.88	128.44	119.84
1	c	520	GLY	CA-C-N	6.88	128.44	119.84
1	c	520	GLY	C-N-CA	6.88	128.44	119.84
1	t	520	GLY	CA-C-N	6.88	128.44	119.84
1	t	520	GLY	C-N-CA	6.88	128.44	119.84
1	w	520	GLY	CA-C-N	6.88	128.44	119.84
1	w	520	GLY	C-N-CA	6.88	128.44	119.84
1	L	520	GLY	CA-C-N	6.88	128.43	119.84
1	L	520	GLY	C-N-CA	6.88	128.43	119.84

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	U	520	GLY	CA-C-N	6.88	128.43	119.84
1	U	520	GLY	C-N-CA	6.88	128.43	119.84
1	s	520	GLY	CA-C-N	6.88	128.43	119.84
1	s	520	GLY	C-N-CA	6.88	128.43	119.84
1	z	520	GLY	CA-C-N	6.88	128.43	119.84
1	z	520	GLY	C-N-CA	6.88	128.43	119.84
1	1	520	GLY	CA-C-N	6.88	128.43	119.84
1	1	520	GLY	C-N-CA	6.88	128.43	119.84
1	A	520	GLY	CA-C-N	6.87	128.43	119.84
1	A	520	GLY	C-N-CA	6.87	128.43	119.84
1	F	520	GLY	CA-C-N	6.87	128.43	119.84
1	F	520	GLY	C-N-CA	6.87	128.43	119.84
1	e	520	GLY	CA-C-N	6.87	128.43	119.84
1	e	520	GLY	C-N-CA	6.87	128.43	119.84
1	f	520	GLY	CA-C-N	6.87	128.43	119.84
1	f	520	GLY	C-N-CA	6.87	128.43	119.84
1	3	520	GLY	CA-C-N	6.87	128.43	119.84
1	3	520	GLY	C-N-CA	6.87	128.43	119.84
1	o	520	GLY	CA-C-N	6.87	128.43	119.84
1	o	520	GLY	C-N-CA	6.87	128.43	119.84
1	k	520	GLY	CA-C-N	6.87	128.43	119.84
1	k	520	GLY	C-N-CA	6.87	128.43	119.84
1	D	520	GLY	CA-C-N	6.87	128.43	119.84
1	D	520	GLY	C-N-CA	6.87	128.43	119.84
1	N	520	GLY	CA-C-N	6.87	128.43	119.84
1	N	520	GLY	C-N-CA	6.87	128.43	119.84
1	W	520	GLY	CA-C-N	6.87	128.43	119.84
1	W	520	GLY	C-N-CA	6.87	128.43	119.84
1	Y	520	GLY	CA-C-N	6.87	128.43	119.84
1	Y	520	GLY	C-N-CA	6.87	128.43	119.84
1	j	520	GLY	CA-C-N	6.87	128.43	119.84
1	j	520	GLY	C-N-CA	6.87	128.43	119.84
1	p	520	GLY	CA-C-N	6.87	128.43	119.84
1	p	520	GLY	C-N-CA	6.87	128.43	119.84
1	6	520	GLY	CA-C-N	6.87	128.43	119.84
1	6	520	GLY	C-N-CA	6.87	128.43	119.84
1	G	520	GLY	CA-C-N	6.87	128.42	119.84
1	G	520	GLY	C-N-CA	6.87	128.42	119.84
1	X	520	GLY	CA-C-N	6.87	128.42	119.84
1	X	520	GLY	C-N-CA	6.87	128.42	119.84
1	l	520	GLY	CA-C-N	6.87	128.42	119.84
1	l	520	GLY	C-N-CA	6.87	128.42	119.84

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	M	520	GLY	CA-C-N	6.86	128.42	119.84
1	M	520	GLY	C-N-CA	6.86	128.42	119.84
1	V	520	GLY	CA-C-N	6.86	128.42	119.84
1	V	520	GLY	C-N-CA	6.86	128.42	119.84
1	Z	520	GLY	CA-C-N	6.86	128.42	119.84
1	Z	520	GLY	C-N-CA	6.86	128.42	119.84
1	h	520	GLY	CA-C-N	6.86	128.42	119.84
1	h	520	GLY	C-N-CA	6.86	128.42	119.84
1	i	520	GLY	CA-C-N	6.86	128.41	119.84
1	i	520	GLY	C-N-CA	6.86	128.41	119.84
1	7	520	GLY	CA-C-N	6.86	128.41	119.84
1	7	520	GLY	C-N-CA	6.86	128.41	119.84
1	8	520	GLY	CA-C-N	6.86	128.41	119.84
1	8	520	GLY	C-N-CA	6.86	128.41	119.84
1	q	520	GLY	CA-C-N	6.85	128.41	119.84
1	q	520	GLY	C-N-CA	6.85	128.41	119.84
1	r	520	GLY	CA-C-N	6.85	128.41	119.84
1	r	520	GLY	C-N-CA	6.85	128.41	119.84
1	n	520	GLY	CA-C-N	6.85	128.40	119.84
1	n	520	GLY	C-N-CA	6.85	128.40	119.84
1	B	520	GLY	CA-C-N	6.85	128.40	119.84
1	B	520	GLY	C-N-CA	6.85	128.40	119.84
1	C	520	GLY	CA-C-N	6.85	128.40	119.84
1	C	520	GLY	C-N-CA	6.85	128.40	119.84
1	I	520	GLY	CA-C-N	6.85	128.40	119.84
1	I	520	GLY	C-N-CA	6.85	128.40	119.84
1	J	520	GLY	CA-C-N	6.85	128.40	119.84
1	J	520	GLY	C-N-CA	6.85	128.40	119.84
1	Q	520	GLY	CA-C-N	6.85	128.40	119.84
1	Q	520	GLY	C-N-CA	6.85	128.40	119.84
1	g	520	GLY	CA-C-N	6.85	128.40	119.84
1	g	520	GLY	C-N-CA	6.85	128.40	119.84
1	m	520	GLY	CA-C-N	6.85	128.40	119.84
1	m	520	GLY	C-N-CA	6.85	128.40	119.84
1	u	520	GLY	CA-C-N	6.85	128.40	119.84
1	u	520	GLY	C-N-CA	6.85	128.40	119.84
1	x	520	GLY	CA-C-N	6.85	128.40	119.84
1	x	520	GLY	C-N-CA	6.85	128.40	119.84
1	4	520	GLY	CA-C-N	6.85	128.40	119.84
1	4	520	GLY	C-N-CA	6.85	128.40	119.84
1	S	520	GLY	CA-C-N	6.84	128.39	119.84
1	S	520	GLY	C-N-CA	6.84	128.39	119.84

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	E	520	GLY	CA-C-N	6.83	128.38	119.84
1	E	520	GLY	C-N-CA	6.83	128.38	119.84
1	q	346	SER	N-CA-C	-6.10	98.48	108.67
1	r	346	SER	N-CA-C	-6.10	98.48	108.67
1	g	346	SER	N-CA-C	-6.10	98.48	108.67
1	V	346	SER	N-CA-C	-6.10	98.49	108.67
1	e	346	SER	N-CA-C	-6.10	98.49	108.67
1	X	346	SER	N-CA-C	-6.09	98.49	108.67
1	R	346	SER	N-CA-C	-6.09	98.49	108.67
1	s	346	SER	N-CA-C	-6.09	98.49	108.67
1	z	346	SER	N-CA-C	-6.09	98.49	108.67
1	1	346	SER	N-CA-C	-6.09	98.49	108.67
1	K	346	SER	N-CA-C	-6.09	98.50	108.67
1	k	346	SER	N-CA-C	-6.09	98.50	108.67
1	D	346	SER	N-CA-C	-6.09	98.50	108.67
1	W	346	SER	N-CA-C	-6.09	98.50	108.67
1	6	346	SER	N-CA-C	-6.09	98.50	108.67
1	N	346	SER	N-CA-C	-6.09	98.51	108.67
1	Y	346	SER	N-CA-C	-6.09	98.51	108.67
1	i	346	SER	N-CA-C	-6.09	98.51	108.67
1	7	346	SER	N-CA-C	-6.09	98.51	108.67
1	M	346	SER	N-CA-C	-6.08	98.51	108.67
1	A	346	SER	N-CA-C	-6.08	98.51	108.67
1	a	346	SER	N-CA-C	-6.08	98.51	108.67
1	b	346	SER	N-CA-C	-6.08	98.51	108.67
1	d	346	SER	N-CA-C	-6.08	98.51	108.67
1	n	346	SER	N-CA-C	-6.08	98.51	108.67
1	v	346	SER	N-CA-C	-6.08	98.51	108.67
1	y	346	SER	N-CA-C	-6.08	98.51	108.67
1	B	346	SER	N-CA-C	-6.08	98.51	108.67
1	h	346	SER	N-CA-C	-6.08	98.52	108.67
1	o	346	SER	N-CA-C	-6.08	98.52	108.67
1	t	346	SER	N-CA-C	-6.08	98.52	108.67
1	T	346	SER	N-CA-C	-6.08	98.52	108.67
1	G	346	SER	N-CA-C	-6.08	98.52	108.67
1	H	346	SER	N-CA-C	-6.08	98.52	108.67
1	O	346	SER	N-CA-C	-6.08	98.52	108.67
1	Z	346	SER	N-CA-C	-6.08	98.52	108.67
1	l	346	SER	N-CA-C	-6.08	98.52	108.67
1	8	346	SER	N-CA-C	-6.08	98.52	108.67
1	P	346	SER	N-CA-C	-6.07	98.53	108.67
1	S	346	SER	N-CA-C	-6.07	98.53	108.67

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	p	346	SER	N-CA-C	-6.07	98.53	108.67
1	u	346	SER	N-CA-C	-6.07	98.53	108.67
1	x	346	SER	N-CA-C	-6.07	98.53	108.67
1	5	346	SER	N-CA-C	-6.07	98.53	108.67
1	j	346	SER	N-CA-C	-6.07	98.53	108.67
1	2	346	SER	N-CA-C	-6.07	98.53	108.67
1	I	346	SER	N-CA-C	-6.07	98.53	108.67
1	Q	346	SER	N-CA-C	-6.07	98.53	108.67
1	m	346	SER	N-CA-C	-6.07	98.53	108.67
1	4	346	SER	N-CA-C	-6.07	98.53	108.67
1	C	346	SER	N-CA-C	-6.07	98.53	108.67
1	F	346	SER	N-CA-C	-6.07	98.54	108.67
1	c	346	SER	N-CA-C	-6.07	98.54	108.67
1	f	346	SER	N-CA-C	-6.07	98.54	108.67
1	3	346	SER	N-CA-C	-6.07	98.54	108.67
1	L	346	SER	N-CA-C	-6.06	98.55	108.67
1	U	346	SER	N-CA-C	-6.06	98.55	108.67
1	E	346	SER	N-CA-C	-6.06	98.55	108.67
1	w	346	SER	N-CA-C	-6.06	98.55	108.67
1	J	346	SER	N-CA-C	-6.04	98.58	108.67
1	w	677	GLN	N-CA-C	5.22	117.02	110.91
1	l	677	GLN	N-CA-C	5.22	117.01	110.91
1	L	677	GLN	N-CA-C	5.21	117.01	110.91
1	c	677	GLN	N-CA-C	5.21	117.00	110.91
1	I	677	GLN	N-CA-C	5.20	117.00	110.91
1	K	677	GLN	N-CA-C	5.20	117.00	110.91
1	Q	677	GLN	N-CA-C	5.20	117.00	110.91
1	V	677	GLN	N-CA-C	5.20	117.00	110.91
1	4	677	GLN	N-CA-C	5.20	117.00	110.91
1	p	677	GLN	N-CA-C	5.20	116.99	110.91
1	U	677	GLN	N-CA-C	5.20	116.99	110.91
1	h	677	GLN	N-CA-C	5.20	116.99	110.91
1	n	677	GLN	N-CA-C	5.20	116.99	110.91
1	W	677	GLN	N-CA-C	5.19	116.98	110.91
1	u	677	GLN	N-CA-C	5.18	116.97	110.91
1	x	677	GLN	N-CA-C	5.18	116.97	110.91
1	D	677	GLN	N-CA-C	5.18	116.97	110.91
1	N	677	GLN	N-CA-C	5.18	116.97	110.91
1	Y	677	GLN	N-CA-C	5.18	116.97	110.91
1	i	677	GLN	N-CA-C	5.18	116.97	110.91
1	j	677	GLN	N-CA-C	5.18	116.97	110.91
1	k	677	GLN	N-CA-C	5.18	116.97	110.91

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	5	677	GLN	N-CA-C	5.18	116.97	110.91
1	7	677	GLN	N-CA-C	5.18	116.97	110.91
1	J	677	GLN	N-CA-C	5.18	116.97	110.91
1	A	677	GLN	N-CA-C	5.17	116.97	110.91
1	F	677	GLN	N-CA-C	5.17	116.97	110.91
1	X	677	GLN	N-CA-C	5.17	116.96	110.91
1	Z	677	GLN	N-CA-C	5.17	116.96	110.91
1	a	677	GLN	N-CA-C	5.17	116.97	110.91
1	b	677	GLN	N-CA-C	5.17	116.97	110.91
1	d	677	GLN	N-CA-C	5.17	116.97	110.91
1	e	677	GLN	N-CA-C	5.17	116.97	110.91
1	f	677	GLN	N-CA-C	5.17	116.97	110.91
1	y	677	GLN	N-CA-C	5.17	116.97	110.91
1	3	677	GLN	N-CA-C	5.17	116.97	110.91
1	q	677	GLN	N-CA-C	5.17	116.96	110.91
1	6	677	GLN	N-CA-C	5.17	116.96	110.91
1	S	677	GLN	N-CA-C	5.17	116.96	110.91
1	C	677	GLN	N-CA-C	5.17	116.95	110.91
1	B	677	GLN	N-CA-C	5.16	116.95	110.91
1	R	677	GLN	N-CA-C	5.16	116.95	110.91
1	s	677	GLN	N-CA-C	5.16	116.95	110.91
1	z	677	GLN	N-CA-C	5.16	116.95	110.91
1	1	677	GLN	N-CA-C	5.16	116.95	110.91
1	r	677	GLN	N-CA-C	5.16	116.94	110.91
1	2	677	GLN	N-CA-C	5.16	116.94	110.91
1	E	677	GLN	N-CA-C	5.15	116.94	110.91
1	8	677	GLN	N-CA-C	5.15	116.94	110.91
1	G	677	GLN	N-CA-C	5.15	116.94	110.91
1	M	677	GLN	N-CA-C	5.15	116.94	110.91
1	O	677	GLN	N-CA-C	5.15	116.94	110.91
1	t	677	GLN	N-CA-C	5.15	116.94	110.91
1	H	677	GLN	N-CA-C	5.15	116.94	110.91
1	P	677	GLN	N-CA-C	5.15	116.94	110.91
1	T	677	GLN	N-CA-C	5.15	116.94	110.91
1	g	677	GLN	N-CA-C	5.15	116.94	110.91
1	m	677	GLN	N-CA-C	5.15	116.94	110.91
1	v	677	GLN	N-CA-C	5.15	116.93	110.91
1	o	677	GLN	N-CA-C	5.14	116.93	110.91
1	T	346	SER	CB-CA-C	-5.01	110.41	117.23
1	I	346	SER	CB-CA-C	-5.01	110.42	117.23
1	Q	346	SER	CB-CA-C	-5.01	110.42	117.23

There are no chirality outliers.

There are no planarity outliers.

5.2 Too-close contacts (i)

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

Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	1	4009	0	3787	282	0
1	2	4009	0	3787	273	0
1	3	4009	0	3787	278	0
1	4	4009	0	3787	279	0
1	5	4009	0	3787	282	0
1	6	4009	0	3787	274	0
1	7	4009	0	3787	277	0
1	8	4009	0	3787	274	0
1	A	4009	0	3787	275	0
1	B	4009	0	3787	281	0
1	C	4009	0	3787	278	0
1	D	4009	0	3787	279	0
1	E	4009	0	3787	279	0
1	F	4009	0	3787	277	0
1	G	4009	0	3787	279	0
1	H	4009	0	3787	279	0
1	I	4009	0	3787	279	0
1	J	4009	0	3787	273	0
1	K	4009	0	3787	278	0
1	L	4009	0	3787	275	0
1	M	4009	0	3787	280	0
1	N	4009	0	3787	276	0
1	O	4009	0	3787	274	0
1	P	4009	0	3787	279	0
1	Q	4009	0	3787	283	0
1	R	4009	0	3787	278	0
1	S	4009	0	3787	274	0
1	T	4009	0	3787	276	0
1	U	4009	0	3787	280	0
1	V	4009	0	3787	279	0
1	W	4009	0	3787	277	0
1	X	4009	0	3787	280	0
1	Y	4009	0	3787	278	0
1	Z	4009	0	3787	273	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	a	4009	0	3787	278	0
1	b	4009	0	3787	274	0
1	c	4009	0	3787	271	0
1	d	4009	0	3787	275	0
1	e	4009	0	3787	269	0
1	f	4009	0	3787	278	0
1	g	4009	0	3787	279	0
1	h	4009	0	3787	280	0
1	i	4009	0	3787	277	0
1	j	4009	0	3787	280	0
1	k	4009	0	3787	280	0
1	l	4009	0	3787	277	0
1	m	4009	0	3787	279	0
1	n	4009	0	3787	278	0
1	o	4009	0	3787	278	0
1	p	4009	0	3787	280	0
1	q	4009	0	3787	275	0
1	r	4009	0	3787	277	0
1	s	4009	0	3787	280	0
1	t	4009	0	3787	279	0
1	u	4009	0	3787	276	0
1	v	4009	0	3787	276	0
1	w	4009	0	3787	280	0
1	x	4009	0	3787	282	0
1	y	4009	0	3787	277	0
1	z	4009	0	3787	274	0
All	All	240540	0	227220	13603	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 29.

All (13603) 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:j:474:SER:CB	1:2:518:ASN:HD22	1.32	1.43
1:a:518:ASN:HD22	1:c:474:SER:CB	1.32	1.43
1:Z:518:ASN:HD22	1:t:474:SER:CB	1.32	1.43
1:e:474:SER:CB	1:3:518:ASN:HD22	1.32	1.43
1:G:474:SER:CB	1:8:518:ASN:HD22	1.32	1.43
1:J:518:ASN:HD22	1:P:474:SER:CB	1.32	1.43
1:d:518:ASN:HD22	1:f:474:SER:CB	1.32	1.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:b:474:SER:CB	1:n:518:ASN:HD22	1.32	1.42
1:C:474:SER:CB	1:5:518:ASN:HD22	1.32	1.42
1:L:474:SER:CB	1:Q:518:ASN:HD22	1.32	1.42
1:L:518:ASN:HD22	1:Y:474:SER:CB	1.32	1.42
1:M:518:ASN:HD22	1:8:474:SER:CB	1.32	1.42
1:Z:474:SER:CB	1:h:518:ASN:HD22	1.32	1.42
1:k:518:ASN:HD22	1:m:474:SER:CB	1.32	1.42
1:C:518:ASN:HD22	1:r:474:SER:CB	1.33	1.42
1:H:518:ASN:HD22	1:g:474:SER:CB	1.32	1.42
1:x:518:ASN:HD22	1:z:474:SER:CB	1.32	1.42
1:z:518:ASN:HD22	1:7:474:SER:CB	1.32	1.42
1:D:518:ASN:HD22	1:T:474:SER:CB	1.32	1.42
1:S:474:SER:CB	1:g:518:ASN:HD22	1.33	1.42
1:F:518:ASN:HD22	1:n:474:SER:CB	1.32	1.41
1:O:474:SER:CB	1:o:518:ASN:HD22	1.32	1.41
1:c:518:ASN:HD22	1:v:474:SER:CB	1.32	1.41
1:d:474:SER:CB	1:y:518:ASN:HD22	1.32	1.41
1:x:474:SER:CB	1:7:518:ASN:HD22	1.32	1.41
1:A:474:SER:CB	1:e:518:ASN:HD22	1.32	1.41
1:B:474:SER:CB	1:4:518:ASN:HD22	1.32	1.41
1:B:518:ASN:HD22	1:6:474:SER:CB	1.32	1.41
1:Q:474:SER:CB	1:Y:518:ASN:HD22	1.32	1.41
1:E:474:SER:CB	1:l:518:ASN:HD22	1.32	1.41
1:I:518:ASN:HD22	1:U:474:SER:CB	1.32	1.41
1:K:518:ASN:HD22	1:1:474:SER:CB	1.32	1.41
1:W:474:SER:CB	1:1:518:ASN:HD22	1.32	1.41
1:X:518:ASN:HD22	1:l:474:SER:CB	1.32	1.41
1:D:474:SER:CB	1:q:518:ASN:HD22	1.30	1.40
1:i:474:SER:CB	1:s:518:ASN:HD22	1.32	1.40
1:O:518:ASN:HD22	1:w:474:SER:CB	1.32	1.40
1:s:474:SER:CB	1:u:518:ASN:HD22	1.32	1.40
1:F:474:SER:CB	1:b:518:ASN:HD22	1.32	1.40
1:I:474:SER:CB	1:N:518:ASN:HD22	1.32	1.40
1:N:474:SER:CB	1:U:518:ASN:HD22	1.32	1.40
1:f:518:ASN:HD22	1:y:474:SER:CB	1.32	1.40
1:i:518:ASN:HD22	1:u:474:SER:CB	1.32	1.40
1:H:474:SER:CB	1:S:518:ASN:HD22	1.32	1.39
1:G:518:ASN:HD22	1:M:474:SER:CB	1.32	1.39
1:K:474:SER:CB	1:W:518:ASN:HD22	1.32	1.39
1:R:474:SER:CB	1:m:518:ASN:HD22	1.32	1.39
1:T:518:ASN:HD22	1:q:474:SER:CB	1.33	1.39

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:h:474:SER:CB	1:t:518:ASN:HD22	1.32	1.39
1:r:518:ASN:HD22	1:5:474:SER:CB	1.32	1.39
1:4:474:SER:CB	1:6:518:ASN:HD22	1.32	1.39
1:V:474:SER:CB	1:j:518:ASN:HD22	1.32	1.39
1:V:518:ASN:HD22	1:2:474:SER:CB	1.32	1.39
1:A:518:ASN:HD22	1:3:474:SER:CB	1.32	1.38
1:J:474:SER:CB	1:p:518:ASN:HD22	1.32	1.38
1:P:518:ASN:HD22	1:p:474:SER:CB	1.32	1.38
1:a:474:SER:CB	1:v:518:ASN:HD22	1.32	1.38
1:R:518:ASN:HD22	1:k:474:SER:CB	1.32	1.38
1:E:518:ASN:HD22	1:X:474:SER:CB	1.32	1.38
1:o:474:SER:CB	1:w:518:ASN:HD22	1.32	1.37
1:L:520:GLY:O	1:L:633:LEU:HD23	1.26	1.36
1:k:520:GLY:O	1:k:633:LEU:HD23	1.26	1.36
1:D:520:GLY:O	1:D:633:LEU:HD23	1.26	1.35
1:z:520:GLY:O	1:z:633:LEU:HD23	1.26	1.35
1:e:520:GLY:O	1:e:633:LEU:HD23	1.26	1.35
1:c:520:GLY:O	1:c:633:LEU:HD23	1.26	1.34
1:v:520:GLY:O	1:v:633:LEU:HD23	1.26	1.34
1:A:520:GLY:O	1:A:633:LEU:HD23	1.26	1.33
1:F:520:GLY:O	1:F:633:LEU:HD23	1.26	1.32
1:C:520:GLY:O	1:C:633:LEU:HD23	1.26	1.32
1:o:474:SER:HB3	1:w:518:ASN:ND2	1.45	1.32
1:B:520:GLY:O	1:B:633:LEU:HD23	1.26	1.32
1:E:518:ASN:ND2	1:X:474:SER:HB3	1.45	1.32
1:1:520:GLY:O	1:1:633:LEU:HD23	1.26	1.32
1:g:520:GLY:O	1:g:633:LEU:HD23	1.26	1.32
1:j:474:SER:HB3	1:2:518:ASN:ND2	1.45	1.32
1:y:520:GLY:O	1:y:633:LEU:HD23	1.26	1.32
1:J:518:ASN:ND2	1:P:474:SER:HB3	1.46	1.31
1:k:518:ASN:ND2	1:m:474:SER:HB3	1.45	1.31
1:D:474:SER:HB3	1:q:518:ASN:ND2	1.43	1.31
1:G:518:ASN:ND2	1:M:474:SER:HB3	1.45	1.31
1:h:474:SER:HB3	1:t:518:ASN:ND2	1.45	1.31
1:B:474:SER:HB3	1:4:518:ASN:ND2	1.45	1.31
1:D:518:ASN:ND2	1:T:474:SER:HB3	1.45	1.31
1:K:518:ASN:ND2	1:1:474:SER:HB3	1.45	1.31
1:P:518:ASN:ND2	1:p:474:SER:HB3	1.45	1.31
1:Q:474:SER:HB3	1:Y:518:ASN:ND2	1.45	1.31
1:i:518:ASN:ND2	1:u:474:SER:HB3	1.45	1.31
1:F:518:ASN:ND2	1:n:474:SER:HB3	1.45	1.30

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:474:SER:HB3	1:S:518:ASN:ND2	1.45	1.30
1:N:474:SER:HB3	1:U:518:ASN:ND2	1.45	1.30
1:V:474:SER:HB3	1:j:518:ASN:ND2	1.45	1.30
1:i:474:SER:HB3	1:s:518:ASN:ND2	1.46	1.30
1:r:518:ASN:ND2	1:5:474:SER:HB3	1.45	1.30
1:F:474:SER:HB3	1:b:518:ASN:ND2	1.45	1.30
1:I:474:SER:HB3	1:N:518:ASN:ND2	1.45	1.30
1:d:474:SER:HB3	1:y:518:ASN:ND2	1.45	1.30
1:x:474:SER:HB3	1:7:518:ASN:ND2	1.45	1.30
1:E:520:GLY:O	1:E:633:LEU:HD23	1.26	1.30
1:W:520:GLY:O	1:W:633:LEU:HD23	1.26	1.30
1:f:518:ASN:ND2	1:y:474:SER:HB3	1.45	1.30
1:6:520:GLY:O	1:6:633:LEU:HD23	1.26	1.30
1:A:474:SER:HB3	1:e:518:ASN:ND2	1.45	1.30
1:I:520:GLY:O	1:I:633:LEU:HD23	1.26	1.30
1:R:474:SER:HB3	1:m:518:ASN:ND2	1.45	1.30
1:T:518:ASN:ND2	1:q:474:SER:HB3	1.45	1.30
1:i:520:GLY:O	1:i:633:LEU:HD23	1.26	1.30
1:I:518:ASN:ND2	1:U:474:SER:HB3	1.45	1.30
1:N:520:GLY:O	1:N:633:LEU:HD23	1.26	1.30
1:O:520:GLY:O	1:O:633:LEU:HD23	1.26	1.29
1:c:518:ASN:ND2	1:v:474:SER:HB3	1.45	1.29
1:j:520:GLY:O	1:j:633:LEU:HD23	1.26	1.29
1:w:520:GLY:O	1:w:633:LEU:HD23	1.26	1.29
1:s:474:SER:HB3	1:u:518:ASN:ND2	1.45	1.29
1:P:520:GLY:O	1:P:633:LEU:HD23	1.26	1.29
1:l:520:GLY:O	1:l:633:LEU:HD23	1.26	1.29
1:u:520:GLY:O	1:u:633:LEU:HD23	1.26	1.29
1:C:474:SER:HB3	1:5:518:ASN:ND2	1.45	1.29
1:H:518:ASN:ND2	1:g:474:SER:HB3	1.45	1.29
1:O:474:SER:HB3	1:o:518:ASN:ND2	1.45	1.29
1:Z:520:GLY:O	1:Z:633:LEU:HD23	1.26	1.29
1:q:520:GLY:O	1:q:633:LEU:HD23	1.26	1.29
1:E:474:SER:HB3	1:l:518:ASN:ND2	1.45	1.28
1:e:474:SER:HB3	1:3:518:ASN:ND2	1.46	1.28
1:B:518:ASN:ND2	1:6:474:SER:HB3	1.46	1.28
1:H:520:GLY:O	1:H:633:LEU:HD23	1.26	1.28
1:R:518:ASN:ND2	1:k:474:SER:HB3	1.46	1.28
1:W:474:SER:HB3	1:1:518:ASN:ND2	1.46	1.28
1:X:518:ASN:ND2	1:l:474:SER:HB3	1.45	1.28
1:Z:518:ASN:ND2	1:t:474:SER:HB3	1.45	1.28

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:a:518:ASN:ND2	1:c:474:SER:HB3	1.46	1.28
1:8:520:GLY:O	1:8:633:LEU:HD23	1.26	1.28
1:C:518:ASN:ND2	1:r:474:SER:HB3	1.47	1.28
1:G:474:SER:HB3	1:8:518:ASN:ND2	1.45	1.28
1:O:518:ASN:ND2	1:w:474:SER:HB3	1.45	1.28
1:R:520:GLY:O	1:R:633:LEU:HD23	1.26	1.28
1:S:474:SER:HB3	1:g:518:ASN:ND2	1.47	1.28
1:m:520:GLY:O	1:m:633:LEU:HD23	1.26	1.28
1:A:518:ASN:ND2	1:3:474:SER:HB3	1.45	1.28
1:J:474:SER:HB3	1:p:518:ASN:ND2	1.46	1.28
1:U:520:GLY:O	1:U:633:LEU:HD23	1.26	1.28
1:G:520:GLY:O	1:G:633:LEU:HD23	1.26	1.28
1:T:520:GLY:O	1:T:633:LEU:HD23	1.26	1.28
1:t:520:GLY:O	1:t:633:LEU:HD23	1.26	1.28
1:2:520:GLY:O	1:2:633:LEU:HD23	1.26	1.28
1:5:520:GLY:O	1:5:633:LEU:HD23	1.26	1.28
1:V:518:ASN:ND2	1:2:474:SER:HB3	1.46	1.27
1:s:520:GLY:O	1:s:633:LEU:HD23	1.26	1.27
1:L:518:ASN:ND2	1:Y:474:SER:HB3	1.46	1.27
1:S:520:GLY:O	1:S:633:LEU:HD23	1.26	1.27
1:a:474:SER:HB3	1:v:518:ASN:ND2	1.46	1.27
1:b:474:SER:HB3	1:n:518:ASN:ND2	1.46	1.27
1:n:520:GLY:O	1:n:633:LEU:HD23	1.26	1.27
1:z:518:ASN:ND2	1:7:474:SER:HB3	1.46	1.27
1:J:520:GLY:O	1:J:633:LEU:HD23	1.26	1.27
1:K:474:SER:HB3	1:W:518:ASN:ND2	1.45	1.27
1:K:520:GLY:O	1:K:633:LEU:HD23	1.26	1.27
1:d:518:ASN:ND2	1:f:474:SER:HB3	1.45	1.27
1:4:474:SER:HB3	1:6:518:ASN:ND2	1.45	1.27
1:M:518:ASN:ND2	1:8:474:SER:HB3	1.45	1.27
1:r:520:GLY:O	1:r:633:LEU:HD23	1.26	1.27
1:d:520:GLY:O	1:d:633:LEU:HD23	1.26	1.27
1:4:520:GLY:O	1:4:633:LEU:HD23	1.26	1.27
1:Z:474:SER:HB3	1:h:518:ASN:ND2	1.45	1.26
1:x:518:ASN:ND2	1:z:474:SER:HB3	1.46	1.26
1:L:474:SER:HB3	1:Q:518:ASN:ND2	1.46	1.26
1:a:520:GLY:O	1:a:633:LEU:HD23	1.26	1.26
1:b:520:GLY:O	1:b:633:LEU:HD23	1.26	1.26
1:3:520:GLY:O	1:3:633:LEU:HD23	1.26	1.26
1:M:520:GLY:O	1:M:633:LEU:HD23	1.26	1.25
1:X:520:GLY:O	1:X:633:LEU:HD23	1.26	1.25

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:f:520:GLY:O	1:f:633:LEU:HD23	1.26	1.25
1:x:520:GLY:O	1:x:633:LEU:HD23	1.26	1.25
1:h:520:GLY:O	1:h:633:LEU:HD23	1.26	1.25
1:Q:520:GLY:O	1:Q:633:LEU:HD23	1.26	1.25
1:o:520:GLY:O	1:o:633:LEU:HD23	1.26	1.25
1:Y:520:GLY:O	1:Y:633:LEU:HD23	1.26	1.23
1:p:520:GLY:O	1:p:633:LEU:HD23	1.26	1.23
1:7:520:GLY:O	1:7:633:LEU:HD23	1.26	1.23
1:V:520:GLY:O	1:V:633:LEU:HD23	1.26	1.22
1:Y:523:MET:HE2	1:Y:523:MET:HA	1.42	1.02
1:7:523:MET:HE2	1:7:523:MET:HA	1.42	1.02
1:Z:518:ASN:ND2	1:t:474:SER:CB	2.13	1.02
1:F:518:ASN:ND2	1:n:474:SER:CB	2.13	1.02
1:M:523:MET:HE2	1:M:523:MET:HA	1.42	1.02
1:h:523:MET:HE2	1:h:523:MET:HA	1.42	1.02
1:F:523:MET:HE2	1:F:523:MET:HA	1.42	1.01
1:d:474:SER:CB	1:y:518:ASN:ND2	2.13	1.01
1:f:523:MET:HA	1:f:523:MET:HE2	1.42	1.01
1:x:474:SER:CB	1:7:518:ASN:ND2	2.13	1.01
1:y:523:MET:HE2	1:y:523:MET:HA	1.42	1.01
1:A:523:MET:HE2	1:A:523:MET:HA	1.42	1.01
1:G:474:SER:CB	1:8:518:ASN:ND2	2.13	1.01
1:b:523:MET:HA	1:b:523:MET:HE2	1.42	1.01
1:P:523:MET:HE2	1:P:523:MET:HA	1.42	1.01
1:Q:474:SER:CB	1:Y:518:ASN:ND2	2.13	1.01
1:i:518:ASN:ND2	1:u:474:SER:CB	2.13	1.01
1:r:523:MET:HE2	1:r:523:MET:HA	1.42	1.01
1:v:523:MET:HE2	1:v:523:MET:HA	1.42	1.01
1:B:474:SER:CB	1:4:518:ASN:ND2	2.13	1.01
1:K:518:ASN:ND2	1:1:474:SER:CB	2.13	1.01
1:S:523:MET:HE2	1:S:523:MET:HA	1.42	1.01
1:V:523:MET:HE2	1:V:523:MET:HA	1.42	1.01
1:j:523:MET:HA	1:j:523:MET:HE2	1.42	1.01
1:D:518:ASN:ND2	1:T:474:SER:CB	2.13	1.01
1:I:474:SER:CB	1:N:518:ASN:ND2	2.13	1.01
1:X:523:MET:HE2	1:X:523:MET:HA	1.42	1.01
1:l:523:MET:HE2	1:l:523:MET:HA	1.42	1.01
1:o:523:MET:HE2	1:o:523:MET:HA	1.42	1.01
1:H:523:MET:HE2	1:H:523:MET:HA	1.42	1.00
1:O:523:MET:HE2	1:O:523:MET:HA	1.42	1.00
1:T:523:MET:HE2	1:T:523:MET:HA	1.42	1.00

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:U:523:MET:HE2	1:U:523:MET:HA	1.42	1.00
1:a:523:MET:HE2	1:a:523:MET:HA	1.42	1.00
1:j:474:SER:CB	1:2:518:ASN:ND2	2.13	1.00
1:k:518:ASN:ND2	1:m:474:SER:CB	2.13	1.00
1:m:523:MET:HE2	1:m:523:MET:HA	1.42	1.00
1:p:523:MET:HE2	1:p:523:MET:HA	1.42	1.00
1:s:523:MET:HE2	1:s:523:MET:HA	1.42	1.00
1:W:523:MET:HE2	1:W:523:MET:HA	1.42	1.00
1:Z:520:GLY:O	1:Z:633:LEU:CD2	2.10	1.00
1:x:520:GLY:O	1:x:633:LEU:CD2	2.10	1.00
1:3:523:MET:HE2	1:3:523:MET:HA	1.42	1.00
1:5:523:MET:HE2	1:5:523:MET:HA	1.42	1.00
1:6:523:MET:HE2	1:6:523:MET:HA	1.42	1.00
1:8:520:GLY:O	1:8:633:LEU:CD2	2.10	1.00
1:A:520:GLY:O	1:A:633:LEU:CD2	2.10	1.00
1:E:520:GLY:O	1:E:633:LEU:CD2	2.10	1.00
1:H:520:GLY:O	1:H:633:LEU:CD2	2.10	1.00
1:Q:520:GLY:O	1:Q:633:LEU:CD2	2.10	1.00
1:S:520:GLY:O	1:S:633:LEU:CD2	2.10	1.00
1:c:520:GLY:O	1:c:633:LEU:CD2	2.10	1.00
1:e:520:GLY:O	1:e:633:LEU:CD2	2.10	1.00
1:r:520:GLY:O	1:r:633:LEU:CD2	2.10	1.00
1:w:520:GLY:O	1:w:633:LEU:CD2	2.10	1.00
1:x:518:ASN:ND2	1:z:474:SER:CB	2.13	1.00
1:B:523:MET:HE2	1:B:523:MET:HA	1.42	1.00
1:J:520:GLY:O	1:J:633:LEU:CD2	2.10	1.00
1:v:520:GLY:O	1:v:633:LEU:CD2	2.10	1.00
1:1:520:GLY:O	1:1:633:LEU:CD2	2.10	1.00
1:2:520:GLY:O	1:2:633:LEU:CD2	2.10	1.00
1:B:520:GLY:O	1:B:633:LEU:CD2	2.10	1.00
1:P:518:ASN:ND2	1:p:474:SER:CB	2.13	1.00
1:U:520:GLY:O	1:U:633:LEU:CD2	2.10	1.00
1:p:520:GLY:O	1:p:633:LEU:CD2	2.10	1.00
1:t:523:MET:HE2	1:t:523:MET:HA	1.42	1.00
1:5:520:GLY:O	1:5:633:LEU:CD2	2.10	1.00
1:L:474:SER:CB	1:Q:518:ASN:ND2	2.13	1.00
1:V:520:GLY:O	1:V:633:LEU:CD2	2.10	1.00
1:b:520:GLY:O	1:b:633:LEU:CD2	2.10	1.00
1:f:520:GLY:O	1:f:633:LEU:CD2	2.10	1.00
1:h:520:GLY:O	1:h:633:LEU:CD2	2.10	1.00
1:1:523:MET:HE2	1:1:523:MET:HA	1.42	1.00

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:523:MET:HE2	1:I:523:MET:HA	1.42	1.00
1:K:520:GLY:O	1:K:633:LEU:CD2	2.10	1.00
1:M:520:GLY:O	1:M:633:LEU:CD2	2.10	1.00
1:V:474:SER:CB	1:j:518:ASN:ND2	2.13	1.00
1:s:520:GLY:O	1:s:633:LEU:CD2	2.10	1.00
1:4:520:GLY:O	1:4:633:LEU:CD2	2.10	1.00
1:4:523:MET:HE2	1:4:523:MET:HA	1.42	1.00
1:E:518:ASN:ND2	1:X:474:SER:CB	2.13	0.99
1:G:523:MET:HA	1:G:523:MET:HE2	1.42	0.99
1:N:523:MET:HE2	1:N:523:MET:HA	1.42	0.99
1:O:520:GLY:O	1:O:633:LEU:CD2	2.10	0.99
1:o:474:SER:CB	1:w:518:ASN:ND2	2.12	0.99
1:K:523:MET:HA	1:K:523:MET:HE2	1.42	0.99
1:P:520:GLY:O	1:P:633:LEU:CD2	2.10	0.99
1:g:523:MET:HE2	1:g:523:MET:HA	1.42	0.99
1:i:523:MET:HE2	1:i:523:MET:HA	1.42	0.99
1:j:520:GLY:O	1:j:633:LEU:CD2	2.10	0.99
1:u:523:MET:HE2	1:u:523:MET:HA	1.42	0.99
1:J:523:MET:HE2	1:J:523:MET:HA	1.42	0.99
1:c:518:ASN:ND2	1:v:474:SER:CB	2.13	0.99
1:c:523:MET:HE2	1:c:523:MET:HA	1.42	0.99
1:e:523:MET:HE2	1:e:523:MET:HA	1.42	0.99
1:l:520:GLY:O	1:l:633:LEU:CD2	2.10	0.99
1:C:523:MET:HA	1:C:523:MET:HE2	1.42	0.99
1:D:520:GLY:O	1:D:633:LEU:CD2	2.10	0.99
1:N:520:GLY:O	1:N:633:LEU:CD2	2.10	0.99
1:i:520:GLY:O	1:i:633:LEU:CD2	2.10	0.99
1:2:523:MET:HE2	1:2:523:MET:HA	1.42	0.99
1:6:520:GLY:O	1:6:633:LEU:CD2	2.10	0.99
1:W:520:GLY:O	1:W:633:LEU:CD2	2.10	0.99
1:u:520:GLY:O	1:u:633:LEU:CD2	2.10	0.99
1:D:523:MET:HE2	1:D:523:MET:HA	1.42	0.99
1:k:520:GLY:O	1:k:633:LEU:CD2	2.10	0.99
1:k:523:MET:HE2	1:k:523:MET:HA	1.42	0.99
1:8:523:MET:HE2	1:8:523:MET:HA	1.42	0.99
1:A:474:SER:CB	1:e:518:ASN:ND2	2.13	0.99
1:I:520:GLY:O	1:I:633:LEU:CD2	2.10	0.99
1:X:520:GLY:O	1:X:633:LEU:CD2	2.10	0.99
1:Z:523:MET:HE2	1:Z:523:MET:HA	1.42	0.99
1:d:520:GLY:O	1:d:633:LEU:CD2	2.10	0.99
1:C:520:GLY:O	1:C:633:LEU:CD2	2.10	0.99

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:520:GLY:O	1:G:633:LEU:CD2	2.10	0.99
1:a:520:GLY:O	1:a:633:LEU:CD2	2.10	0.99
1:t:520:GLY:O	1:t:633:LEU:CD2	2.10	0.99
1:n:520:GLY:O	1:n:633:LEU:CD2	2.10	0.99
1:o:520:GLY:O	1:o:633:LEU:CD2	2.10	0.99
1:y:520:GLY:O	1:y:633:LEU:CD2	2.10	0.99
1:F:520:GLY:O	1:F:633:LEU:CD2	2.10	0.99
1:z:520:GLY:O	1:z:633:LEU:CD2	2.10	0.99
1:L:520:GLY:O	1:L:633:LEU:CD2	2.10	0.98
1:T:520:GLY:O	1:T:633:LEU:CD2	2.10	0.98
1:g:520:GLY:O	1:g:633:LEU:CD2	2.10	0.98
1:m:520:GLY:O	1:m:633:LEU:CD2	2.10	0.98
1:w:523:MET:HE2	1:w:523:MET:HA	1.42	0.98
1:3:520:GLY:O	1:3:633:LEU:CD2	2.10	0.98
1:a:518:ASN:ND2	1:c:474:SER:CB	2.13	0.98
1:x:523:MET:HE2	1:x:523:MET:HA	1.42	0.98
1:Q:523:MET:HE2	1:Q:523:MET:HA	1.42	0.98
1:R:474:SER:CB	1:m:518:ASN:ND2	2.13	0.98
1:R:523:MET:HE2	1:R:523:MET:HA	1.42	0.98
1:d:523:MET:HE2	1:d:523:MET:HA	1.42	0.98
1:L:523:MET:HE2	1:L:523:MET:HA	1.42	0.98
1:R:520:GLY:O	1:R:633:LEU:CD2	2.10	0.98
1:7:520:GLY:O	1:7:633:LEU:CD2	2.10	0.98
1:E:523:MET:HE2	1:E:523:MET:HA	1.42	0.98
1:n:523:MET:HE2	1:n:523:MET:HA	1.42	0.98
1:Y:520:GLY:O	1:Y:633:LEU:CD2	2.10	0.98
1:q:523:MET:HE2	1:q:523:MET:HA	1.42	0.98
1:z:523:MET:HE2	1:z:523:MET:HA	1.42	0.98
1:d:518:ASN:ND2	1:f:474:SER:CB	2.13	0.98
1:q:520:GLY:O	1:q:633:LEU:CD2	2.10	0.98
1:e:474:SER:CB	1:3:518:ASN:ND2	2.13	0.98
1:b:474:SER:CB	1:n:518:ASN:ND2	2.13	0.97
1:T:518:ASN:ND2	1:q:474:SER:CB	2.14	0.97
1:r:518:ASN:ND2	1:5:474:SER:CB	2.13	0.97
1:H:474:SER:CB	1:S:518:ASN:ND2	2.13	0.97
1:D:474:SER:CB	1:q:518:ASN:ND2	2.10	0.96
1:G:518:ASN:ND2	1:M:474:SER:CB	2.13	0.96
1:h:474:SER:CB	1:t:518:ASN:ND2	2.13	0.96
1:C:518:ASN:ND2	1:r:474:SER:CB	2.14	0.95
1:K:474:SER:CB	1:W:518:ASN:ND2	2.13	0.95
1:4:474:SER:CB	1:6:518:ASN:ND2	2.13	0.95

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:s:474:SER:CB	1:u:518:ASN:ND2	2.13	0.95
1:S:474:SER:CB	1:g:518:ASN:ND2	2.14	0.94
1:I:518:ASN:ND2	1:U:474:SER:CB	2.13	0.94
1:R:518:ASN:ND2	1:k:474:SER:CB	2.13	0.94
1:H:349:GLN:HE21	1:H:349:GLN:HA	1.33	0.94
1:5:349:GLN:HE21	1:5:349:GLN:HA	1.33	0.94
1:7:349:GLN:HA	1:7:349:GLN:HE21	1.33	0.94
1:Y:349:GLN:HA	1:Y:349:GLN:HE21	1.33	0.94
1:I:349:GLN:HE21	1:I:349:GLN:HA	1.33	0.94
1:u:349:GLN:HA	1:u:349:GLN:HE21	1.33	0.94
1:O:349:GLN:HE21	1:O:349:GLN:HA	1.33	0.94
1:a:349:GLN:HA	1:a:349:GLN:HE21	1.33	0.94
1:Z:474:SER:CB	1:h:518:ASN:ND2	2.13	0.93
1:e:349:GLN:HA	1:e:349:GLN:HE21	1.33	0.93
1:l:349:GLN:HA	1:l:349:GLN:HE21	1.33	0.93
1:2:349:GLN:HA	1:2:349:GLN:HE21	1.33	0.93
1:3:349:GLN:HA	1:3:349:GLN:HE21	1.33	0.93
1:L:349:GLN:HE21	1:L:349:GLN:HA	1.33	0.93
1:c:349:GLN:HE21	1:c:349:GLN:HA	1.33	0.93
1:J:349:GLN:HA	1:J:349:GLN:HE21	1.33	0.93
1:M:518:ASN:ND2	1:8:474:SER:CB	2.13	0.93
1:t:349:GLN:HA	1:t:349:GLN:HE21	1.33	0.93
1:A:518:ASN:ND2	1:3:474:SER:CB	2.13	0.93
1:P:349:GLN:HE21	1:P:349:GLN:HA	1.33	0.93
1:R:349:GLN:HA	1:R:349:GLN:HE21	1.33	0.93
1:a:474:SER:CB	1:v:518:ASN:ND2	2.13	0.93
1:p:349:GLN:HA	1:p:349:GLN:HE21	1.33	0.93
1:q:349:GLN:HA	1:q:349:GLN:HE21	1.33	0.93
1:z:349:GLN:HE21	1:z:349:GLN:HA	1.33	0.93
1:6:349:GLN:HA	1:6:349:GLN:HE21	1.33	0.93
1:G:349:GLN:HA	1:G:349:GLN:HE21	1.33	0.93
1:V:349:GLN:HA	1:V:349:GLN:HE21	1.33	0.93
1:b:474:SER:HB3	1:n:518:ASN:HD22	0.76	0.93
1:A:349:GLN:HE21	1:A:349:GLN:HA	1.33	0.93
1:F:474:SER:CB	1:b:518:ASN:ND2	2.13	0.93
1:S:474:SER:HB3	1:g:518:ASN:HD22	0.77	0.93
1:W:349:GLN:HE21	1:W:349:GLN:HA	1.33	0.93
1:R:518:ASN:HD22	1:k:474:SER:HB3	0.76	0.93
1:d:518:ASN:HD22	1:f:474:SER:HB3	0.76	0.93
1:f:518:ASN:ND2	1:y:474:SER:CB	2.13	0.93
1:j:349:GLN:HE21	1:j:349:GLN:HA	1.33	0.93

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:n:349:GLN:HE21	1:n:349:GLN:HA	1.33	0.93
1:R:474:SER:HB3	1:m:518:ASN:HD22	0.76	0.93
1:C:518:ASN:HD22	1:r:474:SER:HB3	0.77	0.93
1:d:349:GLN:HE21	1:d:349:GLN:HA	1.33	0.93
1:s:474:SER:HB3	1:u:518:ASN:HD22	0.76	0.93
1:v:349:GLN:HE21	1:v:349:GLN:HA	1.33	0.93
1:I:518:ASN:HD22	1:U:474:SER:HB3	0.76	0.92
1:i:474:SER:HB3	1:s:518:ASN:HD22	0.76	0.92
1:x:518:ASN:HD22	1:z:474:SER:HB3	0.76	0.92
1:L:474:SER:HB3	1:Q:518:ASN:HD22	0.76	0.92
1:M:349:GLN:HA	1:M:349:GLN:HE21	1.33	0.92
1:D:518:ASN:HD22	1:T:474:SER:HB3	0.76	0.92
1:I:474:SER:HB3	1:N:518:ASN:HD22	0.75	0.92
1:K:518:ASN:HD22	1:1:474:SER:HB3	0.76	0.92
1:N:474:SER:HB3	1:U:518:ASN:HD22	0.76	0.92
1:Q:349:GLN:HA	1:Q:349:GLN:HE21	1.33	0.92
1:i:518:ASN:HD22	1:u:474:SER:HB3	0.75	0.92
1:1:349:GLN:HE21	1:1:349:GLN:HA	1.33	0.92
1:a:518:ASN:HD22	1:c:474:SER:HB3	0.76	0.92
1:x:349:GLN:HA	1:x:349:GLN:HE21	1.33	0.92
1:B:349:GLN:HA	1:B:349:GLN:HE21	1.33	0.92
1:B:474:SER:HB3	1:4:518:ASN:HD22	0.76	0.92
1:G:518:ASN:HD22	1:M:474:SER:HB3	0.75	0.92
1:T:518:ASN:HD22	1:q:474:SER:HB3	0.75	0.92
1:h:474:SER:HB3	1:t:518:ASN:HD22	0.75	0.92
1:U:349:GLN:HA	1:U:349:GLN:HE21	1.33	0.92
1:e:474:SER:HB3	1:3:518:ASN:HD22	0.76	0.92
1:h:349:GLN:HA	1:h:349:GLN:HE21	1.33	0.92
1:B:518:ASN:HD22	1:6:474:SER:HB3	0.76	0.92
1:D:349:GLN:HE21	1:D:349:GLN:HA	1.33	0.92
1:F:349:GLN:HA	1:F:349:GLN:HE21	1.33	0.92
1:F:474:SER:HB3	1:b:518:ASN:HD22	0.76	0.92
1:J:518:ASN:HD22	1:P:474:SER:HB3	0.76	0.92
1:k:518:ASN:HD22	1:m:474:SER:HB3	0.75	0.92
1:x:474:SER:HB3	1:7:518:ASN:HD22	0.75	0.92
1:y:349:GLN:HA	1:y:349:GLN:HE21	1.33	0.92
1:W:474:SER:HB3	1:1:518:ASN:HD22	0.76	0.92
1:f:518:ASN:HD22	1:y:474:SER:HB3	0.76	0.92
1:i:349:GLN:HA	1:i:349:GLN:HE21	1.33	0.92
1:m:349:GLN:HA	1:m:349:GLN:HE21	1.33	0.92
1:C:349:GLN:HA	1:C:349:GLN:HE21	1.33	0.92

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:474:SER:HB3	1:8:518:ASN:HD22	0.75	0.92
1:M:518:ASN:HD22	1:8:474:SER:HB3	0.75	0.92
1:Q:474:SER:HB3	1:Y:518:ASN:HD22	0.75	0.92
1:T:349:GLN:HE21	1:T:349:GLN:HA	1.33	0.92
1:j:474:SER:HB3	1:2:518:ASN:HD22	0.76	0.92
1:s:349:GLN:HE21	1:s:349:GLN:HA	1.33	0.92
1:E:518:ASN:HD22	1:X:474:SER:HB3	0.75	0.91
1:F:518:ASN:HD22	1:n:474:SER:HB3	0.76	0.91
1:O:474:SER:HB3	1:o:518:ASN:HD22	0.75	0.91
1:Z:474:SER:HB3	1:h:518:ASN:HD22	0.76	0.91
1:Z:518:ASN:HD22	1:t:474:SER:HB3	0.75	0.91
1:d:474:SER:HB3	1:y:518:ASN:HD22	0.76	0.91
1:k:349:GLN:HE21	1:k:349:GLN:HA	1.33	0.91
1:r:349:GLN:HE21	1:r:349:GLN:HA	1.33	0.91
1:r:518:ASN:HD22	1:5:474:SER:HB3	0.76	0.91
1:N:349:GLN:HA	1:N:349:GLN:HE21	1.33	0.91
1:S:349:GLN:HE21	1:S:349:GLN:HA	1.33	0.91
1:X:518:ASN:HD22	1:l:474:SER:HB3	0.75	0.91
1:a:350:LEU:HD22	1:a:395:LEU:CD2	2.01	0.91
1:f:350:LEU:HD22	1:f:395:LEU:CD2	2.01	0.91
1:3:350:LEU:HD22	1:3:395:LEU:CD2	2.01	0.91
1:C:350:LEU:HD22	1:C:395:LEU:CD2	2.01	0.91
1:H:474:SER:HB3	1:S:518:ASN:HD22	0.76	0.91
1:Y:350:LEU:HD22	1:Y:395:LEU:CD2	2.01	0.91
1:Z:349:GLN:HA	1:Z:349:GLN:HE21	1.33	0.91
1:b:350:LEU:HD22	1:b:395:LEU:CD2	2.01	0.91
1:e:350:LEU:HD22	1:e:395:LEU:CD2	2.01	0.91
1:g:350:LEU:HD22	1:g:395:LEU:CD2	2.01	0.91
1:j:350:LEU:HD22	1:j:395:LEU:CD2	2.01	0.91
1:q:350:LEU:HD22	1:q:395:LEU:CD2	2.01	0.91
1:6:350:LEU:HD22	1:6:395:LEU:CD2	2.01	0.91
1:7:350:LEU:HD22	1:7:395:LEU:CD2	2.01	0.91
1:8:349:GLN:HE21	1:8:349:GLN:HA	1.33	0.91
1:8:350:LEU:HD22	1:8:395:LEU:CD2	2.01	0.91
1:D:474:SER:HB3	1:q:518:ASN:HD22	0.74	0.91
1:O:518:ASN:HD22	1:w:474:SER:HB3	0.75	0.91
1:P:350:LEU:HD22	1:P:395:LEU:CD2	2.01	0.91
1:R:350:LEU:HD22	1:R:395:LEU:CD2	2.01	0.91
1:T:350:LEU:HD22	1:T:395:LEU:CD2	2.01	0.91
1:Z:350:LEU:HD22	1:Z:395:LEU:CD2	2.01	0.91
1:a:474:SER:HB3	1:v:518:ASN:HD22	0.76	0.91

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:c:350:LEU:HD22	1:c:395:LEU:CD2	2.01	0.91
1:g:349:GLN:HE21	1:g:349:GLN:HA	1.33	0.91
1:E:474:SER:HB3	1:l:518:ASN:HD22	0.75	0.91
1:W:350:LEU:HD22	1:W:395:LEU:CD2	2.01	0.91
1:X:349:GLN:HE21	1:X:349:GLN:HA	1.33	0.91
1:m:350:LEU:HD22	1:m:395:LEU:CD2	2.01	0.91
1:G:350:LEU:HD22	1:G:395:LEU:CD2	2.01	0.91
1:J:474:SER:HB3	1:p:518:ASN:HD22	0.76	0.91
1:5:350:LEU:HD22	1:5:395:LEU:CD2	2.01	0.91
1:A:350:LEU:HD22	1:A:395:LEU:CD2	2.01	0.91
1:H:518:ASN:HD22	1:g:474:SER:HB3	0.75	0.91
1:L:518:ASN:HD22	1:Y:474:SER:HB3	0.76	0.91
1:X:350:LEU:HD22	1:X:395:LEU:CD2	2.01	0.91
1:k:350:LEU:HD22	1:k:395:LEU:CD2	2.01	0.91
1:o:474:SER:HB3	1:w:518:ASN:HD22	0.75	0.91
1:v:350:LEU:HD22	1:v:395:LEU:CD2	2.01	0.91
1:z:518:ASN:HD22	1:7:474:SER:HB3	0.76	0.91
1:2:350:LEU:HD22	1:2:395:LEU:CD2	2.01	0.91
1:4:349:GLN:HE21	1:4:349:GLN:HA	1.33	0.91
1:A:518:ASN:HD22	1:3:474:SER:HB3	0.75	0.91
1:C:474:SER:HB3	1:5:518:ASN:HD22	0.75	0.91
1:H:350:LEU:HD22	1:H:395:LEU:CD2	2.01	0.91
1:I:350:LEU:HD22	1:I:395:LEU:CD2	2.01	0.91
1:V:518:ASN:HD22	1:2:474:SER:HB3	0.76	0.91
1:c:518:ASN:HD22	1:v:474:SER:HB3	0.76	0.91
1:o:350:LEU:HD22	1:o:395:LEU:CD2	2.01	0.91
1:t:350:LEU:HD22	1:t:395:LEU:CD2	2.01	0.91
1:D:350:LEU:HD22	1:D:395:LEU:CD2	2.01	0.91
1:u:350:LEU:HD22	1:u:395:LEU:CD2	2.01	0.91
1:J:350:LEU:HD22	1:J:395:LEU:CD2	2.01	0.91
1:K:349:GLN:HE21	1:K:349:GLN:HA	1.33	0.91
1:O:518:ASN:ND2	1:w:474:SER:CB	2.13	0.91
1:o:349:GLN:HE21	1:o:349:GLN:HA	1.33	0.91
1:4:474:SER:HB3	1:6:518:ASN:HD22	0.76	0.91
1:V:474:SER:HB3	1:j:518:ASN:HD22	0.75	0.90
1:K:474:SER:HB3	1:W:518:ASN:HD22	0.76	0.90
1:O:350:LEU:HD22	1:O:395:LEU:CD2	2.01	0.90
1:P:518:ASN:HD22	1:p:474:SER:HB3	0.75	0.90
1:w:349:GLN:HE21	1:w:349:GLN:HA	1.33	0.90
1:B:350:LEU:HD22	1:B:395:LEU:CD2	2.01	0.90
1:Q:350:LEU:HD22	1:Q:395:LEU:CD2	2.01	0.90

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:f:349:GLN:HA	1:f:349:GLN:HE21	1.33	0.90
1:l:350:LEU:HD22	1:l:395:LEU:CD2	2.01	0.90
1:z:350:LEU:HD22	1:z:395:LEU:CD2	2.01	0.90
1:4:350:LEU:HD22	1:4:395:LEU:CD2	2.01	0.90
1:E:349:GLN:HE21	1:E:349:GLN:HA	1.33	0.90
1:E:474:SER:CB	1:l:518:ASN:ND2	2.13	0.90
1:K:350:LEU:HD22	1:K:395:LEU:CD2	2.01	0.90
1:V:350:LEU:HD22	1:V:395:LEU:CD2	2.01	0.90
1:1:350:LEU:HD22	1:1:395:LEU:CD2	2.01	0.90
1:A:474:SER:HB3	1:e:518:ASN:HD22	0.75	0.90
1:L:350:LEU:HD22	1:L:395:LEU:CD2	2.01	0.90
1:b:349:GLN:HA	1:b:349:GLN:HE21	1.33	0.90
1:p:350:LEU:HD22	1:p:395:LEU:CD2	2.01	0.90
1:w:350:LEU:HD22	1:w:395:LEU:CD2	2.01	0.90
1:x:350:LEU:HD22	1:x:395:LEU:CD2	2.01	0.90
1:y:350:LEU:HD22	1:y:395:LEU:CD2	2.01	0.90
1:E:350:LEU:HD22	1:E:395:LEU:CD2	2.01	0.90
1:S:350:LEU:HD22	1:S:395:LEU:CD2	2.01	0.90
1:r:350:LEU:HD22	1:r:395:LEU:CD2	2.01	0.90
1:z:518:ASN:ND2	1:7:474:SER:CB	2.13	0.90
1:U:350:LEU:HD22	1:U:395:LEU:CD2	2.01	0.90
1:V:518:ASN:ND2	1:2:474:SER:CB	2.13	0.90
1:d:350:LEU:HD22	1:d:395:LEU:CD2	2.01	0.90
1:h:350:LEU:HD22	1:h:395:LEU:CD2	2.01	0.90
1:n:350:LEU:HD22	1:n:395:LEU:CD2	2.01	0.90
1:s:350:LEU:HD22	1:s:395:LEU:CD2	2.01	0.90
1:F:350:LEU:HD22	1:F:395:LEU:CD2	2.01	0.90
1:M:350:LEU:HD22	1:M:395:LEU:CD2	2.01	0.89
1:J:518:ASN:ND2	1:P:474:SER:CB	2.13	0.89
1:L:518:ASN:ND2	1:Y:474:SER:CB	2.13	0.89
1:J:474:SER:CB	1:p:518:ASN:ND2	2.13	0.89
1:H:518:ASN:ND2	1:g:474:SER:CB	2.13	0.89
1:i:350:LEU:HD22	1:i:395:LEU:CD2	2.01	0.89
1:i:474:SER:CB	1:s:518:ASN:ND2	2.13	0.89
1:N:350:LEU:HD22	1:N:395:LEU:CD2	2.01	0.89
1:C:474:SER:CB	1:5:518:ASN:ND2	2.13	0.88
1:O:474:SER:CB	1:o:518:ASN:ND2	2.13	0.88
1:N:474:SER:CB	1:U:518:ASN:ND2	2.13	0.88
1:X:518:ASN:ND2	1:l:474:SER:CB	2.13	0.87
1:1:416:GLU:N	1:1:416:GLU:OE1	2.08	0.87
1:B:416:GLU:N	1:B:416:GLU:OE1	2.08	0.87

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:R:416:GLU:N	1:R:416:GLU:OE1	2.08	0.87
1:q:416:GLU:N	1:q:416:GLU:OE1	2.08	0.87
1:o:416:GLU:N	1:o:416:GLU:OE1	2.08	0.86
1:3:416:GLU:N	1:3:416:GLU:OE1	2.08	0.86
1:C:416:GLU:N	1:C:416:GLU:OE1	2.08	0.86
1:N:416:GLU:N	1:N:416:GLU:OE1	2.08	0.86
1:X:416:GLU:N	1:X:416:GLU:OE1	2.08	0.86
1:a:416:GLU:N	1:a:416:GLU:OE1	2.08	0.86
1:g:416:GLU:N	1:g:416:GLU:OE1	2.08	0.86
1:i:416:GLU:N	1:i:416:GLU:OE1	2.08	0.86
1:K:416:GLU:N	1:K:416:GLU:OE1	2.08	0.86
1:v:416:GLU:N	1:v:416:GLU:OE1	2.08	0.86
1:8:416:GLU:N	1:8:416:GLU:OE1	2.08	0.86
1:A:416:GLU:N	1:A:416:GLU:OE1	2.08	0.86
1:E:416:GLU:N	1:E:416:GLU:OE1	2.08	0.86
1:Z:416:GLU:N	1:Z:416:GLU:OE1	2.08	0.86
1:t:416:GLU:N	1:t:416:GLU:OE1	2.08	0.86
1:4:416:GLU:N	1:4:416:GLU:OE1	2.08	0.86
1:5:416:GLU:N	1:5:416:GLU:OE1	2.08	0.86
1:G:416:GLU:N	1:G:416:GLU:OE1	2.08	0.86
1:J:416:GLU:N	1:J:416:GLU:OE1	2.08	0.86
1:L:416:GLU:N	1:L:416:GLU:OE1	2.08	0.86
1:S:416:GLU:N	1:S:416:GLU:OE1	2.08	0.86
1:r:416:GLU:N	1:r:416:GLU:OE1	2.08	0.86
1:z:416:GLU:N	1:z:416:GLU:OE1	2.08	0.86
1:2:416:GLU:N	1:2:416:GLU:OE1	2.08	0.86
1:H:416:GLU:N	1:H:416:GLU:OE1	2.08	0.86
1:T:416:GLU:N	1:T:416:GLU:OE1	2.08	0.86
1:l:416:GLU:N	1:l:416:GLU:OE1	2.08	0.86
1:p:416:GLU:N	1:p:416:GLU:OE1	2.08	0.86
1:w:416:GLU:N	1:w:416:GLU:OE1	2.08	0.86
1:M:416:GLU:N	1:M:416:GLU:OE1	2.08	0.86
1:I:416:GLU:N	1:I:416:GLU:OE1	2.08	0.86
1:O:416:GLU:N	1:O:416:GLU:OE1	2.08	0.86
1:V:416:GLU:N	1:V:416:GLU:OE1	2.08	0.86
1:Y:416:GLU:N	1:Y:416:GLU:OE1	2.08	0.86
1:m:416:GLU:N	1:m:416:GLU:OE1	2.08	0.86
1:W:416:GLU:N	1:W:416:GLU:OE1	2.08	0.86
1:d:416:GLU:N	1:d:416:GLU:OE1	2.08	0.86
1:h:416:GLU:N	1:h:416:GLU:OE1	2.09	0.86
1:n:416:GLU:N	1:n:416:GLU:OE1	2.08	0.86

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:u:416:GLU:N	1:u:416:GLU:OE1	2.08	0.86
1:6:416:GLU:N	1:6:416:GLU:OE1	2.08	0.86
1:7:416:GLU:N	1:7:416:GLU:OE1	2.08	0.86
1:y:416:GLU:N	1:y:416:GLU:OE1	2.08	0.85
1:F:416:GLU:N	1:F:416:GLU:OE1	2.08	0.85
1:P:416:GLU:N	1:P:416:GLU:OE1	2.08	0.85
1:Q:416:GLU:N	1:Q:416:GLU:OE1	2.08	0.85
1:x:416:GLU:N	1:x:416:GLU:OE1	2.08	0.85
1:B:518:ASN:ND2	1:6:474:SER:CB	2.13	0.85
1:j:416:GLU:N	1:j:416:GLU:OE1	2.08	0.85
1:U:416:GLU:N	1:U:416:GLU:OE1	2.08	0.85
1:k:416:GLU:N	1:k:416:GLU:OE1	2.08	0.85
1:L:518:ASN:HD22	1:Y:474:SER:HB2	1.42	0.85
1:c:416:GLU:N	1:c:416:GLU:OE1	2.08	0.85
1:s:416:GLU:N	1:s:416:GLU:OE1	2.08	0.85
1:D:416:GLU:N	1:D:416:GLU:OE1	2.08	0.85
1:W:474:SER:CB	1:1:518:ASN:ND2	2.13	0.85
1:e:416:GLU:N	1:e:416:GLU:OE1	2.08	0.85
1:z:518:ASN:HD22	1:7:474:SER:HB2	1.42	0.85
1:r:518:ASN:HD22	1:5:474:SER:HB2	1.42	0.85
1:C:518:ASN:HD22	1:r:474:SER:HB2	1.42	0.84
1:Z:243:SER:HB2	1:Z:245:ARG:HH11	1.43	0.84
1:b:416:GLU:N	1:b:416:GLU:OE1	2.08	0.84
1:8:243:SER:HB2	1:8:245:ARG:HH11	1.43	0.84
1:S:474:SER:HB2	1:g:518:ASN:HD22	1.42	0.84
1:X:243:SER:HB2	1:X:245:ARG:HH11	1.43	0.84
1:f:416:GLU:N	1:f:416:GLU:OE1	2.08	0.84
1:o:243:SER:HB2	1:o:245:ARG:HH11	1.43	0.84
1:I:474:SER:HB2	1:N:518:ASN:HD22	1.43	0.84
1:5:243:SER:HB2	1:5:245:ARG:HH11	1.42	0.84
1:i:518:ASN:HD22	1:u:474:SER:HB2	1.43	0.84
1:H:243:SER:HB2	1:H:245:ARG:HH11	1.43	0.84
1:H:474:SER:HB2	1:S:518:ASN:HD22	1.42	0.84
1:r:243:SER:HB2	1:r:245:ARG:HH11	1.43	0.84
1:t:243:SER:HB2	1:t:245:ARG:HH11	1.43	0.84
1:F:243:SER:HB2	1:F:245:ARG:HH11	1.43	0.84
1:G:243:SER:HB2	1:G:245:ARG:HH11	1.43	0.84
1:I:518:ASN:HD22	1:U:474:SER:HB2	1.42	0.84
1:y:243:SER:HB2	1:y:245:ARG:HH11	1.43	0.84
1:2:243:SER:HB2	1:2:245:ARG:HH11	1.43	0.84
1:J:243:SER:HB2	1:J:245:ARG:HH11	1.43	0.84

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:243:SER:HB2	1:N:245:ARG:HH11	1.43	0.84
1:Y:243:SER:HB2	1:Y:245:ARG:HH11	1.43	0.84
1:i:243:SER:HB2	1:i:245:ARG:HH11	1.43	0.84
1:s:243:SER:HB2	1:s:245:ARG:HH11	1.43	0.84
1:S:243:SER:HB2	1:S:245:ARG:HH11	1.43	0.84
1:U:243:SER:HB2	1:U:245:ARG:HH11	1.43	0.84
1:d:243:SER:HB2	1:d:245:ARG:HH11	1.43	0.84
1:d:474:SER:HB2	1:y:518:ASN:HD22	1.42	0.84
1:l:243:SER:HB2	1:l:245:ARG:HH11	1.43	0.84
1:s:474:SER:HB2	1:u:518:ASN:HD22	1.42	0.84
1:7:243:SER:HB2	1:7:245:ARG:HH11	1.43	0.84
1:A:243:SER:HB2	1:A:245:ARG:HH11	1.43	0.84
1:F:518:ASN:HD22	1:n:474:SER:HB2	1.42	0.84
1:n:243:SER:HB2	1:n:245:ARG:HH11	1.43	0.84
1:O:243:SER:HB2	1:O:245:ARG:HH11	1.43	0.83
1:u:243:SER:HB2	1:u:245:ARG:HH11	1.43	0.83
1:N:474:SER:HB2	1:U:518:ASN:HD22	1.43	0.83
1:i:474:SER:HB2	1:s:518:ASN:HD22	1.42	0.83
1:o:474:SER:HB2	1:w:518:ASN:HD22	1.42	0.83
1:v:243:SER:HB2	1:v:245:ARG:HH11	1.43	0.83
1:x:243:SER:HB2	1:x:245:ARG:HH11	1.43	0.83
1:B:243:SER:HB2	1:B:245:ARG:HH11	1.43	0.83
1:g:243:SER:HB2	1:g:245:ARG:HH11	1.43	0.83
1:1:243:SER:HB2	1:1:245:ARG:HH11	1.43	0.83
1:E:518:ASN:HD22	1:X:474:SER:HB2	1.42	0.83
1:I:243:SER:HB2	1:I:245:ARG:HH11	1.43	0.83
1:Z:474:SER:HB2	1:h:518:ASN:HD22	1.42	0.83
1:6:243:SER:HB2	1:6:245:ARG:HH11	1.43	0.83
1:C:243:SER:HB2	1:C:245:ARG:HH11	1.43	0.83
1:A:350:LEU:CD2	1:A:395:LEU:HD23	2.09	0.83
1:B:350:LEU:CD2	1:B:395:LEU:HD23	2.09	0.83
1:Q:243:SER:HB2	1:Q:245:ARG:HH11	1.43	0.83
1:W:243:SER:HB2	1:W:245:ARG:HH11	1.43	0.83
1:f:243:SER:HB2	1:f:245:ARG:HH11	1.43	0.83
1:v:350:LEU:CD2	1:v:395:LEU:HD23	2.09	0.83
1:1:350:LEU:CD2	1:1:395:LEU:HD23	2.09	0.83
1:E:350:LEU:CD2	1:E:395:LEU:HD23	2.09	0.83
1:I:350:LEU:CD2	1:I:395:LEU:HD23	2.09	0.83
1:T:243:SER:HB2	1:T:245:ARG:HH11	1.43	0.83
1:b:350:LEU:CD2	1:b:395:LEU:HD23	2.09	0.83
1:t:350:LEU:CD2	1:t:395:LEU:HD23	2.09	0.83

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:u:350:LEU:CD2	1:u:395:LEU:HD23	2.09	0.83
1:G:350:LEU:CD2	1:G:395:LEU:HD23	2.09	0.83
1:M:518:ASN:HD22	1:8:474:SER:HB2	1.43	0.83
1:b:243:SER:HB2	1:b:245:ARG:HH11	1.43	0.83
1:f:350:LEU:CD2	1:f:395:LEU:HD23	2.09	0.83
1:w:350:LEU:CD2	1:w:395:LEU:HD23	2.09	0.83
1:8:350:LEU:CD2	1:8:395:LEU:HD23	2.09	0.83
1:V:243:SER:HB2	1:V:245:ARG:HH11	1.43	0.83
1:Z:350:LEU:CD2	1:Z:395:LEU:HD23	2.09	0.83
1:a:350:LEU:CD2	1:a:395:LEU:HD23	2.09	0.83
1:h:474:SER:HB2	1:t:518:ASN:HD22	1.42	0.83
1:n:350:LEU:CD2	1:n:395:LEU:HD23	2.09	0.83
1:3:350:LEU:CD2	1:3:395:LEU:HD23	2.09	0.83
1:J:350:LEU:CD2	1:J:395:LEU:HD23	2.09	0.82
1:Z:518:ASN:HD22	1:t:474:SER:HB2	1.42	0.82
1:d:350:LEU:CD2	1:d:395:LEU:HD23	2.09	0.82
1:j:350:LEU:CD2	1:j:395:LEU:HD23	2.09	0.82
1:p:243:SER:HB2	1:p:245:ARG:HH11	1.43	0.82
1:2:350:LEU:CD2	1:2:395:LEU:HD23	2.09	0.82
1:5:350:LEU:CD2	1:5:395:LEU:HD23	2.09	0.82
1:B:474:SER:HB2	1:4:518:ASN:HD22	1.42	0.82
1:G:518:ASN:HD22	1:M:474:SER:HB2	1.42	0.82
1:H:350:LEU:CD2	1:H:395:LEU:HD23	2.09	0.82
1:P:350:LEU:CD2	1:P:395:LEU:HD23	2.09	0.82
1:W:350:LEU:CD2	1:W:395:LEU:HD23	2.09	0.82
1:a:474:SER:HB2	1:v:518:ASN:HD22	1.42	0.82
1:m:243:SER:HB2	1:m:245:ARG:HH11	1.43	0.82
1:4:350:LEU:CD2	1:4:395:LEU:HD23	2.09	0.82
1:7:350:LEU:CD2	1:7:395:LEU:HD23	2.09	0.82
1:A:518:ASN:HD22	1:3:474:SER:HB2	1.42	0.82
1:G:474:SER:HB2	1:8:518:ASN:HD22	1.42	0.82
1:U:350:LEU:CD2	1:U:395:LEU:HD23	2.09	0.82
1:Y:350:LEU:CD2	1:Y:395:LEU:HD23	2.09	0.82
1:e:243:SER:HB2	1:e:245:ARG:HH11	1.43	0.82
1:k:518:ASN:HD22	1:m:474:SER:HB2	1.43	0.82
1:s:350:LEU:CD2	1:s:395:LEU:HD23	2.09	0.82
1:6:350:LEU:CD2	1:6:395:LEU:HD23	2.09	0.82
1:K:350:LEU:CD2	1:K:395:LEU:HD23	2.09	0.82
1:R:474:SER:HB2	1:m:518:ASN:HD22	1.42	0.82
1:i:350:LEU:CD2	1:i:395:LEU:HD23	2.09	0.82
1:w:243:SER:HB2	1:w:245:ARG:HH11	1.43	0.82

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:518:ASN:HD22	1:1:474:SER:HB2	1.42	0.82
1:N:350:LEU:CD2	1:N:395:LEU:HD23	2.09	0.82
1:c:243:SER:HB2	1:c:245:ARG:HH11	1.43	0.82
1:l:350:LEU:CD2	1:l:395:LEU:HD23	2.09	0.82
1:C:474:SER:HB2	1:5:518:ASN:HD22	1.43	0.82
1:D:474:SER:HB2	1:q:518:ASN:HD22	1.41	0.82
1:E:243:SER:HB2	1:E:245:ARG:HH11	1.43	0.82
1:L:474:SER:HB2	1:Q:518:ASN:HD22	1.42	0.82
1:O:350:LEU:CD2	1:O:395:LEU:HD23	2.09	0.82
1:a:243:SER:HB2	1:a:245:ARG:HH11	1.43	0.82
1:D:243:SER:HB2	1:D:245:ARG:HH11	1.43	0.82
1:D:518:ASN:HD22	1:T:474:SER:HB2	1.43	0.82
1:V:518:ASN:HD22	1:2:474:SER:HB2	1.42	0.82
1:c:350:LEU:CD2	1:c:395:LEU:HD23	2.09	0.82
1:x:518:ASN:HD22	1:z:474:SER:HB2	1.42	0.82
1:z:243:SER:HB2	1:z:245:ARG:HH11	1.43	0.82
1:z:350:LEU:CD2	1:z:395:LEU:HD23	2.09	0.82
1:D:350:LEU:CD2	1:D:395:LEU:HD23	2.09	0.82
1:L:350:LEU:CD2	1:L:395:LEU:HD23	2.09	0.82
1:M:243:SER:HB2	1:M:245:ARG:HH11	1.43	0.82
1:h:387:VAL:HG12	1:h:388:GLY:H	1.45	0.82
1:k:350:LEU:CD2	1:k:395:LEU:HD23	2.09	0.82
1:D:426:HIS:HE1	1:D:607:GLN:HE21	1.28	0.82
1:H:518:ASN:HD22	1:g:474:SER:HB2	1.43	0.82
1:L:243:SER:HB2	1:L:245:ARG:HH11	1.43	0.82
1:M:387:VAL:HG12	1:M:388:GLY:H	1.45	0.82
1:Q:387:VAL:HG12	1:Q:388:GLY:H	1.45	0.82
1:V:350:LEU:CD2	1:V:395:LEU:HD23	2.09	0.82
1:W:387:VAL:HG12	1:W:388:GLY:H	1.45	0.82
1:X:350:LEU:CD2	1:X:395:LEU:HD23	2.09	0.82
1:c:426:HIS:HE1	1:c:607:GLN:HE21	1.28	0.82
1:e:350:LEU:CD2	1:e:395:LEU:HD23	2.09	0.82
1:j:474:SER:HB2	1:2:518:ASN:HD22	1.42	0.82
1:k:243:SER:HB2	1:k:245:ARG:HH11	1.43	0.82
1:r:350:LEU:CD2	1:r:395:LEU:HD23	2.09	0.82
1:w:387:VAL:HG12	1:w:388:GLY:H	1.45	0.82
1:E:387:VAL:HG12	1:E:388:GLY:H	1.45	0.82
1:F:426:HIS:HE1	1:F:607:GLN:HE21	1.28	0.82
1:J:518:ASN:HD22	1:P:474:SER:HB2	1.43	0.82
1:L:426:HIS:HE1	1:L:607:GLN:HE21	1.28	0.82
1:Q:350:LEU:CD2	1:Q:395:LEU:HD23	2.09	0.82

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:U:426:HIS:HE1	1:U:607:GLN:HE21	1.28	0.82
1:b:474:SER:HB2	1:n:518:ASN:HD22	1.42	0.82
1:e:426:HIS:HE1	1:e:607:GLN:HE21	1.28	0.82
1:g:350:LEU:CD2	1:g:395:LEU:HD23	2.09	0.82
1:k:426:HIS:HE1	1:k:607:GLN:HE21	1.28	0.82
1:s:426:HIS:HE1	1:s:607:GLN:HE21	1.28	0.82
1:x:350:LEU:CD2	1:x:395:LEU:HD23	2.09	0.82
1:y:426:HIS:HE1	1:y:607:GLN:HE21	1.28	0.82
1:z:426:HIS:HE1	1:z:607:GLN:HE21	1.28	0.82
1:2:426:HIS:HE1	1:2:607:GLN:HE21	1.28	0.82
1:6:387:VAL:HG12	1:6:388:GLY:H	1.45	0.82
1:8:426:HIS:HE1	1:8:607:GLN:HE21	1.28	0.82
1:A:426:HIS:HE1	1:A:607:GLN:HE21	1.28	0.81
1:C:350:LEU:CD2	1:C:395:LEU:HD23	2.09	0.81
1:F:350:LEU:CD2	1:F:395:LEU:HD23	2.09	0.81
1:G:387:VAL:HG12	1:G:388:GLY:H	1.45	0.81
1:J:426:HIS:HE1	1:J:607:GLN:HE21	1.28	0.81
1:O:474:SER:HB2	1:o:518:ASN:HD22	1.42	0.81
1:S:350:LEU:CD2	1:S:395:LEU:HD23	2.09	0.81
1:Z:426:HIS:HE1	1:Z:607:GLN:HE21	1.28	0.81
1:d:518:ASN:HD22	1:f:474:SER:HB2	1.42	0.81
1:h:243:SER:HB2	1:h:245:ARG:HH11	1.43	0.81
1:o:350:LEU:CD2	1:o:395:LEU:HD23	2.09	0.81
1:p:350:LEU:CD2	1:p:395:LEU:HD23	2.09	0.81
1:s:387:VAL:HG12	1:s:388:GLY:H	1.45	0.81
1:t:387:VAL:HG12	1:t:388:GLY:H	1.45	0.81
1:v:426:HIS:HE1	1:v:607:GLN:HE21	1.28	0.81
1:3:243:SER:HB2	1:3:245:ARG:HH11	1.43	0.81
1:A:387:VAL:HG12	1:A:388:GLY:H	1.45	0.81
1:H:387:VAL:HG12	1:H:388:GLY:H	1.45	0.81
1:K:243:SER:HB2	1:K:245:ARG:HH11	1.43	0.81
1:S:426:HIS:HE1	1:S:607:GLN:HE21	1.28	0.81
1:T:350:LEU:CD2	1:T:395:LEU:HD23	2.09	0.81
1:f:387:VAL:HG12	1:f:388:GLY:H	1.45	0.81
1:m:350:LEU:CD2	1:m:395:LEU:HD23	2.09	0.81
1:r:426:HIS:HE1	1:r:607:GLN:HE21	1.28	0.81
1:x:387:VAL:HG12	1:x:388:GLY:H	1.45	0.81
1:F:387:VAL:HG12	1:F:388:GLY:H	1.45	0.81
1:I:426:HIS:HE1	1:I:607:GLN:HE21	1.28	0.81
1:N:387:VAL:HG12	1:N:388:GLY:H	1.45	0.81
1:U:387:VAL:HG12	1:U:388:GLY:H	1.45	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:X:518:ASN:HD22	1:l:474:SER:HB2	1.42	0.81
1:Z:387:VAL:HG12	1:Z:388:GLY:H	1.45	0.81
1:b:387:VAL:HG12	1:b:388:GLY:H	1.45	0.81
1:g:387:VAL:HG12	1:g:388:GLY:H	1.45	0.81
1:i:387:VAL:HG12	1:i:388:GLY:H	1.45	0.81
1:l:387:VAL:HG12	1:l:388:GLY:H	1.45	0.81
1:q:243:SER:HB2	1:q:245:ARG:HH11	1.43	0.81
1:v:387:VAL:HG12	1:v:388:GLY:H	1.45	0.81
1:y:350:LEU:CD2	1:y:395:LEU:HD23	2.09	0.81
1:y:387:VAL:HG12	1:y:388:GLY:H	1.45	0.81
1:2:387:VAL:HG12	1:2:388:GLY:H	1.45	0.81
1:4:243:SER:HB2	1:4:245:ARG:HH11	1.43	0.81
1:5:387:VAL:HG12	1:5:388:GLY:H	1.45	0.81
1:8:387:VAL:HG12	1:8:388:GLY:H	1.45	0.81
1:C:387:VAL:HG12	1:C:388:GLY:H	1.45	0.81
1:J:387:VAL:HG12	1:J:388:GLY:H	1.45	0.81
1:M:350:LEU:CD2	1:M:395:LEU:HD23	2.09	0.81
1:O:387:VAL:HG12	1:O:388:GLY:H	1.45	0.81
1:h:350:LEU:CD2	1:h:395:LEU:HD23	2.09	0.81
1:m:426:HIS:HE1	1:m:607:GLN:HE21	1.28	0.81
1:r:387:VAL:HG12	1:r:388:GLY:H	1.45	0.81
1:S:387:VAL:HG12	1:S:388:GLY:H	1.45	0.81
1:p:387:VAL:HG12	1:p:388:GLY:H	1.45	0.81
1:R:243:SER:HB2	1:R:245:ARG:HH11	1.43	0.81
1:T:387:VAL:HG12	1:T:388:GLY:H	1.45	0.81
1:A:474:SER:HB2	1:e:518:ASN:HD22	1.42	0.81
1:K:387:VAL:HG12	1:K:388:GLY:H	1.45	0.81
1:T:426:HIS:HE1	1:T:607:GLN:HE21	1.28	0.81
1:T:518:ASN:HD22	1:q:474:SER:HB2	1.44	0.81
1:V:387:VAL:HG12	1:V:388:GLY:H	1.45	0.81
1:u:426:HIS:HE1	1:u:607:GLN:HE21	1.28	0.81
1:4:387:VAL:HG12	1:4:388:GLY:H	1.45	0.81
1:b:426:HIS:HE1	1:b:607:GLN:HE21	1.28	0.81
1:m:387:VAL:HG12	1:m:388:GLY:H	1.45	0.81
1:R:350:LEU:CD2	1:R:395:LEU:HD23	2.09	0.81
1:c:518:ASN:HD22	1:v:474:SER:HB2	1.42	0.81
1:f:426:HIS:HE1	1:f:607:GLN:HE21	1.28	0.81
1:k:387:VAL:HG12	1:k:388:GLY:H	1.45	0.81
1:D:387:VAL:HG12	1:D:388:GLY:H	1.45	0.80
1:3:387:VAL:HG12	1:3:388:GLY:H	1.45	0.80
1:P:387:VAL:HG12	1:P:388:GLY:H	1.45	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:P:426:HIS:HE1	1:P:607:GLN:HE21	1.28	0.80
1:W:474:SER:HB2	1:1:518:ASN:HD22	1.42	0.80
1:a:387:VAL:HG12	1:a:388:GLY:H	1.45	0.80
1:j:426:HIS:HE1	1:j:607:GLN:HE21	1.28	0.80
1:q:350:LEU:CD2	1:q:395:LEU:HD23	2.09	0.80
1:c:387:VAL:HG12	1:c:388:GLY:H	1.45	0.80
1:j:243:SER:HB2	1:j:245:ARG:HH11	1.43	0.80
1:B:426:HIS:HE1	1:B:607:GLN:HE21	1.28	0.80
1:D:598:GLN:HE22	1:q:597:THR:HG21	1.45	0.80
1:R:518:ASN:HD22	1:k:474:SER:HB2	1.42	0.80
1:u:387:VAL:HG12	1:u:388:GLY:H	1.45	0.80
1:B:518:ASN:HD22	1:6:474:SER:HB2	1.42	0.80
1:G:426:HIS:HE1	1:G:607:GLN:HE21	1.28	0.80
1:I:387:VAL:HG12	1:I:388:GLY:H	1.45	0.80
1:P:243:SER:HB2	1:P:245:ARG:HH11	1.43	0.80
1:Y:387:VAL:HG12	1:Y:388:GLY:H	1.45	0.80
1:j:387:VAL:HG12	1:j:388:GLY:H	1.45	0.80
1:1:387:VAL:HG12	1:1:388:GLY:H	1.45	0.80
1:a:518:ASN:HD22	1:c:474:SER:HB2	1.42	0.80
1:e:387:VAL:HG12	1:e:388:GLY:H	1.45	0.80
1:t:426:HIS:HE1	1:t:607:GLN:HE21	1.28	0.80
1:z:387:VAL:HG12	1:z:388:GLY:H	1.45	0.80
1:1:426:HIS:HE1	1:1:607:GLN:HE21	1.28	0.80
1:7:387:VAL:HG12	1:7:388:GLY:H	1.45	0.80
1:n:387:VAL:HG12	1:n:388:GLY:H	1.45	0.80
1:B:387:VAL:HG12	1:B:388:GLY:H	1.45	0.80
1:e:474:SER:HB2	1:3:518:ASN:HD22	1.42	0.80
1:o:387:VAL:HG12	1:o:388:GLY:H	1.45	0.80
1:L:387:VAL:HG12	1:L:388:GLY:H	1.45	0.80
1:d:387:VAL:HG12	1:d:388:GLY:H	1.45	0.80
1:Q:474:SER:HB2	1:Y:518:ASN:HD22	1.43	0.79
1:R:387:VAL:HG12	1:R:388:GLY:H	1.45	0.79
1:X:387:VAL:HG12	1:X:388:GLY:H	1.45	0.79
1:Y:426:HIS:HE1	1:Y:607:GLN:HE21	1.28	0.79
1:7:426:HIS:HE1	1:7:607:GLN:HE21	1.28	0.79
1:H:426:HIS:HE1	1:H:607:GLN:HE21	1.28	0.79
1:l:426:HIS:HE1	1:l:607:GLN:HE21	1.28	0.79
1:o:598:GLN:HE22	1:w:597:THR:HG21	1.48	0.79
1:E:597:THR:HG21	1:X:598:GLN:HE22	1.48	0.79
1:O:426:HIS:HE1	1:O:607:GLN:HE21	1.28	0.79
1:5:426:HIS:HE1	1:5:607:GLN:HE21	1.28	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:V:597:THR:HG21	1:2:598:GLN:HE22	1.48	0.79
1:g:426:HIS:HE1	1:g:607:GLN:HE21	1.28	0.79
1:q:387:VAL:HG12	1:q:388:GLY:H	1.45	0.79
1:x:474:SER:HB2	1:7:518:ASN:HD22	1.43	0.79
1:3:426:HIS:HE1	1:3:607:GLN:HE21	1.28	0.79
1:I:597:THR:HG21	1:U:598:GLN:HE22	1.48	0.79
1:a:426:HIS:HE1	1:a:607:GLN:HE21	1.28	0.79
1:q:426:HIS:HE1	1:q:607:GLN:HE21	1.28	0.79
1:s:598:GLN:HE22	1:u:597:THR:HG21	1.48	0.79
1:6:426:HIS:HE1	1:6:607:GLN:HE21	1.28	0.79
1:C:426:HIS:HE1	1:C:607:GLN:HE21	1.28	0.79
1:J:598:GLN:HE22	1:p:597:THR:HG21	1.48	0.79
1:W:426:HIS:HE1	1:W:607:GLN:HE21	1.28	0.79
1:4:426:HIS:HE1	1:4:607:GLN:HE21	1.28	0.79
1:B:597:THR:HG21	1:6:598:GLN:HE22	1.48	0.79
1:K:598:GLN:HE22	1:W:597:THR:HG21	1.48	0.79
1:L:597:THR:HG21	1:Y:598:GLN:HE22	1.48	0.79
1:Q:426:HIS:HE1	1:Q:607:GLN:HE21	1.28	0.79
1:R:426:HIS:HE1	1:R:607:GLN:HE21	1.28	0.79
1:Z:597:THR:HG21	1:t:598:GLN:HE22	1.48	0.79
1:G:598:GLN:HE22	1:8:597:THR:HG21	1.48	0.79
1:M:426:HIS:HE1	1:M:607:GLN:HE21	1.28	0.79
1:d:597:THR:HG21	1:f:598:GLN:HE22	1.48	0.79
1:h:426:HIS:HE1	1:h:607:GLN:HE21	1.28	0.79
1:z:597:THR:HG21	1:7:598:GLN:HE22	1.48	0.79
1:4:598:GLN:HE22	1:6:597:THR:HG21	1.48	0.79
1:E:426:HIS:HE1	1:E:607:GLN:HE21	1.28	0.78
1:K:426:HIS:HE1	1:K:607:GLN:HE21	1.28	0.78
1:W:598:GLN:HE22	1:1:597:THR:HG21	1.48	0.78
1:b:598:GLN:HE22	1:n:597:THR:HG21	1.48	0.78
1:w:426:HIS:HE1	1:w:607:GLN:HE21	1.28	0.78
1:4:474:SER:HB2	1:6:518:ASN:HD22	1.43	0.78
1:Q:598:GLN:HE22	1:Y:597:THR:HG21	1.48	0.78
1:T:597:THR:HG21	1:q:598:GLN:HE22	1.47	0.78
1:h:598:GLN:HE22	1:t:597:THR:HG21	1.48	0.78
1:x:426:HIS:HE1	1:x:607:GLN:HE21	1.28	0.78
1:O:598:GLN:HE22	1:o:597:THR:HG21	1.48	0.78
1:X:426:HIS:HE1	1:X:607:GLN:HE21	1.28	0.78
1:X:597:THR:HG21	1:l:598:GLN:HE22	1.48	0.78
1:x:597:THR:HG21	1:z:598:GLN:HE22	1.48	0.78
1:x:598:GLN:HE22	1:7:597:THR:HG21	1.48	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:597:THR:HG21	1:M:598:GLN:HE22	1.48	0.78
1:H:597:THR:HG21	1:g:598:GLN:HE22	1.48	0.78
1:L:598:GLN:HE22	1:Q:597:THR:HG21	1.48	0.78
1:n:426:HIS:HE1	1:n:607:GLN:HE21	1.28	0.78
1:p:426:HIS:HE1	1:p:607:GLN:HE21	1.28	0.78
1:C:598:GLN:HE22	1:5:597:THR:HG21	1.48	0.78
1:F:474:SER:HB2	1:b:518:ASN:HD22	1.42	0.78
1:F:598:GLN:HE22	1:b:597:THR:HG21	1.48	0.78
1:K:474:SER:HB2	1:W:518:ASN:HD22	1.43	0.78
1:o:426:HIS:HE1	1:o:607:GLN:HE21	1.28	0.78
1:P:518:ASN:HD22	1:p:474:SER:HB2	1.42	0.78
1:Z:598:GLN:HE22	1:h:597:THR:HG21	1.48	0.78
1:V:426:HIS:HE1	1:V:607:GLN:HE21	1.28	0.78
1:f:597:THR:HG21	1:y:598:GLN:HE22	1.48	0.78
1:R:598:GLN:HE22	1:m:597:THR:HG21	1.48	0.78
1:e:598:GLN:HE22	1:3:597:THR:HG21	1.48	0.78
1:A:598:GLN:HE22	1:e:597:THR:HG21	1.48	0.78
1:M:597:THR:HG21	1:8:598:GLN:HE22	1.48	0.78
1:V:474:SER:HB2	1:j:518:ASN:HD22	1.43	0.78
1:a:597:THR:HG21	1:c:598:GLN:HE22	1.48	0.78
1:d:426:HIS:HE1	1:d:607:GLN:HE21	1.28	0.78
1:A:597:THR:HG21	1:3:598:GLN:HE22	1.48	0.78
1:J:474:SER:HB2	1:p:518:ASN:HD22	1.42	0.78
1:N:426:HIS:HE1	1:N:607:GLN:HE21	1.28	0.78
1:R:597:THR:HG21	1:k:598:GLN:HE22	1.48	0.78
1:c:597:THR:HG21	1:v:598:GLN:HE22	1.48	0.78
1:f:518:ASN:HD22	1:y:474:SER:HB2	1.42	0.78
1:k:597:THR:HG21	1:m:598:GLN:HE22	1.48	0.78
1:D:597:THR:HG21	1:T:598:GLN:HE22	1.48	0.77
1:E:474:SER:HB2	1:l:518:ASN:HD22	1.42	0.77
1:i:426:HIS:HE1	1:i:607:GLN:HE21	1.28	0.77
1:j:598:GLN:HE22	1:2:597:THR:HG21	1.48	0.77
1:I:598:GLN:HE22	1:N:597:THR:HG21	1.48	0.77
1:K:597:THR:HG21	1:1:598:GLN:HE22	1.48	0.77
1:C:597:THR:HG21	1:r:598:GLN:HE22	1.48	0.77
1:S:598:GLN:HE22	1:g:597:THR:HG21	1.48	0.77
1:V:598:GLN:HE22	1:j:597:THR:HG21	1.48	0.77
1:a:598:GLN:HE22	1:v:597:THR:HG21	1.48	0.77
1:i:597:THR:HG21	1:u:598:GLN:HE22	1.48	0.77
1:B:598:GLN:HE22	1:4:597:THR:HG21	1.48	0.77
1:E:598:GLN:HE22	1:l:597:THR:HG21	1.48	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:O:518:ASN:HD22	1:w:474:SER:HB2	1.42	0.77
1:P:597:THR:HG21	1:p:598:GLN:HE22	1.48	0.77
1:N:598:GLN:HE22	1:U:597:THR:HG21	1.48	0.77
1:O:597:THR:HG21	1:w:598:GLN:HE22	1.48	0.77
1:i:598:GLN:HE22	1:s:597:THR:HG21	1.48	0.77
1:J:597:THR:HG21	1:P:598:GLN:HE22	1.49	0.76
1:d:598:GLN:HE22	1:y:597:THR:HG21	1.48	0.76
1:F:597:THR:HG21	1:n:598:GLN:HE22	1.48	0.76
1:r:597:THR:HG21	1:5:598:GLN:HE22	1.48	0.76
1:V:397:TYR:HE2	1:2:692:LYS:HE3	1.51	0.76
1:h:302:ASN:HD21	1:2:302:ASN:HD21	1.35	0.75
1:j:692:LYS:HE3	1:2:397:TYR:HE2	1.52	0.75
1:C:397:TYR:HE2	1:r:692:LYS:HE3	1.51	0.75
1:H:598:GLN:HE22	1:S:597:THR:HG21	1.49	0.75
1:J:397:TYR:HE2	1:P:692:LYS:HE3	1.52	0.75
1:1:350:LEU:CD2	1:1:395:LEU:CD2	2.65	0.75
1:B:350:LEU:CD2	1:B:395:LEU:CD2	2.65	0.75
1:L:397:TYR:HE2	1:Y:692:LYS:HE3	1.52	0.75
1:N:350:LEU:CD2	1:N:395:LEU:CD2	2.65	0.75
1:d:350:LEU:HD22	1:d:395:LEU:HD23	1.69	0.75
1:i:350:LEU:CD2	1:i:395:LEU:CD2	2.65	0.75
1:n:350:LEU:HD22	1:n:395:LEU:HD23	1.69	0.75
1:A:350:LEU:HD22	1:A:395:LEU:HD23	1.69	0.75
1:S:692:LYS:HE3	1:g:397:TYR:HE2	1.51	0.75
1:X:350:LEU:CD2	1:X:395:LEU:CD2	2.65	0.75
1:o:350:LEU:CD2	1:o:395:LEU:CD2	2.65	0.75
1:z:397:TYR:HE2	1:7:692:LYS:HE3	1.52	0.75
1:A:302:ASN:HD21	1:Y:302:ASN:HD21	1.35	0.75
1:J:302:ASN:HD21	1:M:302:ASN:HD21	1.35	0.75
1:i:692:LYS:HE3	1:s:397:TYR:HE2	1.52	0.75
1:B:397:TYR:HE2	1:6:692:LYS:HE3	1.52	0.75
1:G:350:LEU:HD22	1:G:395:LEU:HD23	1.69	0.75
1:N:692:LYS:HE3	1:U:397:TYR:HE2	1.52	0.75
1:P:397:TYR:HE2	1:p:692:LYS:HE3	1.52	0.75
1:S:302:ASN:HD21	1:X:302:ASN:HD21	1.35	0.75
1:V:692:LYS:HE3	1:j:397:TYR:HE2	1.52	0.75
1:W:692:LYS:HE3	1:1:397:TYR:HE2	1.52	0.75
1:k:350:LEU:CD2	1:k:395:LEU:CD2	2.65	0.75
1:n:350:LEU:CD2	1:n:395:LEU:CD2	2.65	0.75
1:o:302:ASN:HD21	1:r:302:ASN:HD21	1.34	0.75
1:D:350:LEU:CD2	1:D:395:LEU:CD2	2.65	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:350:LEU:CD2	1:I:395:LEU:CD2	2.65	0.74
1:J:350:LEU:CD2	1:J:395:LEU:CD2	2.65	0.74
1:K:350:LEU:CD2	1:K:395:LEU:CD2	2.65	0.74
1:X:350:LEU:HD22	1:X:395:LEU:HD23	1.69	0.74
1:c:350:LEU:CD2	1:c:395:LEU:CD2	2.65	0.74
1:d:350:LEU:CD2	1:d:395:LEU:CD2	2.65	0.74
1:v:302:ASN:HD21	1:7:302:ASN:HD21	1.35	0.74
1:v:350:LEU:HD22	1:v:395:LEU:HD23	1.69	0.74
1:v:350:LEU:CD2	1:v:395:LEU:CD2	2.65	0.74
1:4:350:LEU:CD2	1:4:395:LEU:CD2	2.65	0.74
1:A:350:LEU:CD2	1:A:395:LEU:CD2	2.65	0.74
1:G:397:TYR:HE2	1:M:692:LYS:HE3	1.52	0.74
1:J:692:LYS:HE3	1:p:397:TYR:HE2	1.52	0.74
1:Z:302:ASN:HD21	1:1:302:ASN:HD21	1.35	0.74
1:a:350:LEU:CD2	1:a:395:LEU:CD2	2.65	0.74
1:e:350:LEU:CD2	1:e:395:LEU:CD2	2.65	0.74
1:r:350:LEU:CD2	1:r:395:LEU:CD2	2.65	0.74
1:t:350:LEU:HD22	1:t:395:LEU:HD23	1.69	0.74
1:u:350:LEU:CD2	1:u:395:LEU:CD2	2.65	0.74
1:2:350:LEU:CD2	1:2:395:LEU:CD2	2.65	0.74
1:3:350:LEU:CD2	1:3:395:LEU:CD2	2.65	0.74
1:8:350:LEU:CD2	1:8:395:LEU:CD2	2.65	0.74
1:B:302:ASN:HD21	1:8:302:ASN:HD21	1.35	0.74
1:D:475:ARG:O	1:q:519:PRO:HG3	1.86	0.74
1:G:302:ASN:HD21	1:L:302:ASN:HD21	1.35	0.74
1:I:350:LEU:HD22	1:I:395:LEU:HD23	1.69	0.74
1:K:397:TYR:HE2	1:1:692:LYS:HE3	1.52	0.74
1:S:350:LEU:CD2	1:S:395:LEU:CD2	2.65	0.74
1:o:350:LEU:HD22	1:o:395:LEU:HD23	1.69	0.74
1:B:692:LYS:HE3	1:4:397:TYR:HE2	1.52	0.74
1:E:350:LEU:HD22	1:E:395:LEU:HD23	1.69	0.74
1:Z:350:LEU:CD2	1:Z:395:LEU:CD2	2.65	0.74
1:u:350:LEU:HD22	1:u:395:LEU:HD23	1.69	0.74
1:K:302:ASN:HD21	1:4:302:ASN:HD21	1.36	0.74
1:h:692:LYS:HE3	1:t:397:TYR:HE2	1.53	0.74
1:s:302:ASN:HD21	1:w:302:ASN:HD21	1.35	0.74
1:G:692:LYS:HE3	1:8:397:TYR:HE2	1.52	0.74
1:t:302:ASN:HD21	1:z:302:ASN:HD21	1.35	0.74
1:w:350:LEU:HD22	1:w:395:LEU:HD23	1.69	0.74
1:E:302:ASN:HD21	1:U:302:ASN:HD21	1.35	0.74
1:F:302:ASN:HD21	1:N:302:ASN:HD21	1.35	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:c:397:TYR:HE2	1:v:692:LYS:HE3	1.52	0.74
1:d:397:TYR:HE2	1:f:692:LYS:HE3	1.52	0.74
1:w:350:LEU:CD2	1:w:395:LEU:CD2	2.65	0.74
1:E:350:LEU:CD2	1:E:395:LEU:CD2	2.65	0.74
1:G:350:LEU:CD2	1:G:395:LEU:CD2	2.65	0.74
1:R:397:TYR:HE2	1:k:692:LYS:HE3	1.52	0.74
1:a:692:LYS:HE3	1:v:397:TYR:HE2	1.52	0.74
1:b:350:LEU:CD2	1:b:395:LEU:CD2	2.65	0.74
1:f:350:LEU:CD2	1:f:395:LEU:CD2	2.65	0.74
1:i:302:ASN:HD21	1:y:302:ASN:HD21	1.35	0.74
1:t:350:LEU:CD2	1:t:395:LEU:CD2	2.65	0.74
1:O:475:ARG:O	1:o:519:PRO:HG3	1.88	0.74
1:R:302:ASN:HD21	1:l:302:ASN:HD21	1.35	0.74
1:b:692:LYS:HE3	1:n:397:TYR:HE2	1.52	0.74
1:A:692:LYS:HE3	1:e:397:TYR:HE2	1.52	0.74
1:F:692:LYS:HE3	1:b:397:TYR:HE2	1.52	0.74
1:P:350:LEU:CD2	1:P:395:LEU:CD2	2.65	0.74
1:Z:397:TYR:HE2	1:t:692:LYS:HE3	1.52	0.74
1:j:350:LEU:CD2	1:j:395:LEU:CD2	2.65	0.74
1:A:397:TYR:HE2	1:3:692:LYS:HE3	1.53	0.73
1:C:692:LYS:HE3	1:5:397:TYR:HE2	1.52	0.73
1:E:397:TYR:HE2	1:X:692:LYS:HE3	1.53	0.73
1:O:350:LEU:HD22	1:O:395:LEU:HD23	1.69	0.73
1:X:397:TYR:HE2	1:l:692:LYS:HE3	1.52	0.73
1:a:397:TYR:HE2	1:c:692:LYS:HE3	1.52	0.73
1:e:692:LYS:HE3	1:3:397:TYR:HE2	1.52	0.73
1:r:397:TYR:HE2	1:5:692:LYS:HE3	1.51	0.73
1:M:397:TYR:HE2	1:8:692:LYS:HE3	1.52	0.73
1:P:302:ASN:HD21	1:b:302:ASN:HD21	1.35	0.73
1:f:397:TYR:HE2	1:y:692:LYS:HE3	1.52	0.73
1:l:350:LEU:HD22	1:l:395:LEU:HD23	1.69	0.73
1:o:692:LYS:HE3	1:w:397:TYR:HE2	1.53	0.73
1:H:397:TYR:HE2	1:g:692:LYS:HE3	1.53	0.73
1:I:397:TYR:HE2	1:U:692:LYS:HE3	1.52	0.73
1:O:692:LYS:HE3	1:o:397:TYR:HE2	1.53	0.73
1:X:519:PRO:HG3	1:l:475:ARG:O	1.89	0.73
1:d:475:ARG:O	1:y:519:PRO:HG3	1.89	0.73
1:f:302:ASN:HD21	1:j:302:ASN:HD21	1.35	0.73
1:k:519:PRO:HG3	1:m:475:ARG:O	1.89	0.73
1:l:350:LEU:CD2	1:l:395:LEU:CD2	2.65	0.73
1:K:692:LYS:HE3	1:W:397:TYR:HE2	1.53	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Q:692:LYS:HE3	1:Y:397:TYR:HE2	1.53	0.73
1:Z:692:LYS:HE3	1:h:397:TYR:HE2	1.52	0.73
1:x:692:LYS:HE3	1:7:397:TYR:HE2	1.53	0.73
1:4:692:LYS:HE3	1:6:397:TYR:HE2	1.52	0.73
1:A:475:ARG:O	1:e:519:PRO:HG3	1.89	0.73
1:E:519:PRO:HG3	1:X:475:ARG:O	1.88	0.73
1:F:519:PRO:HG3	1:n:475:ARG:O	1.89	0.73
1:T:302:ASN:HD21	1:m:302:ASN:HD21	1.36	0.73
1:s:350:LEU:CD2	1:s:395:LEU:CD2	2.65	0.73
1:C:475:ARG:O	1:5:519:PRO:HG3	1.89	0.73
1:D:397:TYR:HE2	1:T:692:LYS:HE3	1.52	0.73
1:H:350:LEU:CD2	1:H:395:LEU:CD2	2.65	0.73
1:M:350:LEU:CD2	1:M:395:LEU:CD2	2.65	0.73
1:O:350:LEU:CD2	1:O:395:LEU:CD2	2.65	0.73
1:R:350:LEU:CD2	1:R:395:LEU:CD2	2.65	0.73
1:R:475:ARG:O	1:m:519:PRO:HG3	1.89	0.73
1:U:350:LEU:CD2	1:U:395:LEU:CD2	2.65	0.73
1:c:519:PRO:HG3	1:v:475:ARG:O	1.89	0.73
1:h:350:LEU:CD2	1:h:395:LEU:CD2	2.65	0.73
1:o:475:ARG:O	1:w:519:PRO:HG3	1.88	0.73
1:q:350:LEU:CD2	1:q:395:LEU:CD2	2.65	0.73
1:5:350:LEU:CD2	1:5:395:LEU:CD2	2.65	0.73
1:D:519:PRO:HG3	1:T:475:ARG:O	1.89	0.73
1:H:519:PRO:HG3	1:g:475:ARG:O	1.89	0.73
1:L:475:ARG:O	1:Q:519:PRO:HG3	1.89	0.73
1:O:302:ASN:HD21	1:q:302:ASN:HD21	1.35	0.73
1:a:519:PRO:HG3	1:c:475:ARG:O	1.89	0.73
1:s:692:LYS:HE3	1:u:397:TYR:HE2	1.52	0.73
1:x:519:PRO:HG3	1:z:475:ARG:O	1.89	0.73
1:7:350:LEU:CD2	1:7:395:LEU:CD2	2.65	0.73
1:A:519:PRO:HG3	1:3:475:ARG:O	1.89	0.73
1:F:545:GLN:NE2	1:F:720:TYR:O	2.22	0.73
1:H:692:LYS:HE3	1:S:397:TYR:HE2	1.51	0.73
1:I:692:LYS:HE3	1:N:397:TYR:HE2	1.53	0.73
1:L:350:LEU:CD2	1:L:395:LEU:CD2	2.65	0.73
1:Z:475:ARG:O	1:h:519:PRO:HG3	1.89	0.73
1:e:475:ARG:O	1:3:519:PRO:HG3	1.89	0.73
1:k:397:TYR:HE2	1:m:692:LYS:HE3	1.53	0.73
1:r:519:PRO:HG3	1:5:475:ARG:O	1.89	0.73
1:5:545:GLN:NE2	1:5:720:TYR:O	2.22	0.73
1:B:519:PRO:HG3	1:6:475:ARG:O	1.89	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:519:PRO:HG3	1:Y:475:ARG:O	1.89	0.73
1:M:519:PRO:HG3	1:8:475:ARG:O	1.89	0.73
1:Q:350:LEU:CD2	1:Q:395:LEU:CD2	2.65	0.73
1:a:475:ARG:O	1:v:519:PRO:HG3	1.89	0.73
1:a:545:GLN:NE2	1:a:720:TYR:O	2.22	0.73
1:i:397:TYR:HE2	1:u:692:LYS:HE3	1.53	0.73
1:y:545:GLN:NE2	1:y:720:TYR:O	2.22	0.73
1:3:545:GLN:NE2	1:3:720:TYR:O	2.22	0.73
1:G:475:ARG:O	1:8:519:PRO:HG3	1.88	0.73
1:H:545:GLN:NE2	1:H:720:TYR:O	2.22	0.73
1:Q:475:ARG:O	1:Y:519:PRO:HG3	1.89	0.73
1:Y:350:LEU:HD22	1:Y:395:LEU:HD23	1.69	0.73
1:r:545:GLN:NE2	1:r:720:TYR:O	2.22	0.73
1:x:475:ARG:O	1:7:519:PRO:HG3	1.89	0.73
1:z:350:LEU:CD2	1:z:395:LEU:CD2	2.65	0.73
1:z:519:PRO:HG3	1:7:475:ARG:O	1.89	0.73
1:4:545:GLN:NE2	1:4:720:TYR:O	2.22	0.73
1:7:350:LEU:HD22	1:7:395:LEU:HD23	1.69	0.73
1:K:545:GLN:NE2	1:K:720:TYR:O	2.22	0.72
1:S:545:GLN:NE2	1:S:720:TYR:O	2.22	0.72
1:W:475:ARG:O	1:1:519:PRO:HG3	1.89	0.72
1:Z:519:PRO:HG3	1:t:475:ARG:O	1.88	0.72
1:g:350:LEU:CD2	1:g:395:LEU:CD2	2.65	0.72
1:s:475:ARG:O	1:u:519:PRO:HG3	1.89	0.72
1:x:350:LEU:CD2	1:x:395:LEU:CD2	2.65	0.72
1:C:350:LEU:CD2	1:C:395:LEU:CD2	2.65	0.72
1:F:397:TYR:HE2	1:n:692:LYS:HE3	1.52	0.72
1:I:519:PRO:HG3	1:U:475:ARG:O	1.89	0.72
1:T:545:GLN:NE2	1:T:720:TYR:O	2.22	0.72
1:a:302:ASN:HD21	1:6:302:ASN:HD21	1.35	0.72
1:i:475:ARG:O	1:s:519:PRO:HG3	1.89	0.72
1:m:545:GLN:NE2	1:m:720:TYR:O	2.22	0.72
1:8:545:GLN:NE2	1:8:720:TYR:O	2.22	0.72
1:H:475:ARG:O	1:S:519:PRO:HG3	1.89	0.72
1:L:692:LYS:HE3	1:Q:397:TYR:HE2	1.52	0.72
1:N:475:ARG:O	1:U:519:PRO:HG3	1.89	0.72
1:W:302:ASN:HD21	1:3:302:ASN:HD21	1.35	0.72
1:Z:545:GLN:NE2	1:Z:720:TYR:O	2.22	0.72
1:a:350:LEU:HD22	1:a:395:LEU:HD23	1.69	0.72
1:3:350:LEU:HD22	1:3:395:LEU:HD23	1.69	0.72
1:C:302:ASN:HD21	1:p:302:ASN:HD21	1.36	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:475:ARG:O	1:l:519:PRO:HG3	1.88	0.72
1:T:519:PRO:HG3	1:q:475:ARG:O	1.89	0.72
1:V:302:ASN:HD21	1:g:302:ASN:HD21	1.36	0.72
1:Y:545:GLN:NE2	1:Y:720:TYR:O	2.22	0.72
1:j:475:ARG:O	1:2:519:PRO:HG3	1.88	0.72
1:2:350:LEU:HD22	1:2:395:LEU:HD23	1.69	0.72
1:B:545:GLN:NE2	1:B:720:TYR:O	2.22	0.72
1:C:545:GLN:NE2	1:C:720:TYR:O	2.22	0.72
1:H:302:ASN:HD21	1:e:302:ASN:HD21	1.35	0.72
1:I:475:ARG:O	1:N:519:PRO:HG3	1.89	0.72
1:J:475:ARG:O	1:p:519:PRO:HG3	1.89	0.72
1:K:519:PRO:HG3	1:1:475:ARG:O	1.89	0.72
1:O:519:PRO:HG3	1:w:475:ARG:O	1.88	0.72
1:R:692:LYS:HE3	1:m:397:TYR:HE2	1.52	0.72
1:T:397:TYR:HE2	1:q:692:LYS:HE3	1.53	0.72
1:b:545:GLN:NE2	1:b:720:TYR:O	2.22	0.72
1:h:475:ARG:O	1:t:519:PRO:HG3	1.88	0.72
1:i:519:PRO:HG3	1:u:475:ARG:O	1.89	0.72
1:7:545:GLN:NE2	1:7:720:TYR:O	2.22	0.72
1:R:545:GLN:NE2	1:R:720:TYR:O	2.22	0.72
1:V:519:PRO:HG3	1:2:475:ARG:O	1.89	0.72
1:c:302:ASN:HD21	1:5:302:ASN:HD21	1.35	0.72
1:d:692:LYS:HE3	1:y:397:TYR:HE2	1.52	0.72
1:f:545:GLN:NE2	1:f:720:TYR:O	2.22	0.72
1:g:545:GLN:NE2	1:g:720:TYR:O	2.22	0.72
1:D:302:ASN:HD21	1:n:302:ASN:HD21	1.35	0.72
1:J:350:LEU:HD22	1:J:395:LEU:HD23	1.69	0.72
1:h:545:GLN:NE2	1:h:720:TYR:O	2.22	0.72
1:i:545:GLN:NE2	1:i:720:TYR:O	2.22	0.72
1:x:397:TYR:HE2	1:z:692:LYS:HE3	1.52	0.72
1:1:545:GLN:NE2	1:1:720:TYR:O	2.22	0.72
1:B:475:ARG:O	1:4:519:PRO:HG3	1.89	0.72
1:D:350:LEU:HD22	1:D:395:LEU:HD23	1.69	0.72
1:E:545:GLN:NE2	1:E:720:TYR:O	2.22	0.72
1:F:350:LEU:CD2	1:F:395:LEU:CD2	2.65	0.72
1:G:519:PRO:HG3	1:M:475:ARG:O	1.88	0.72
1:G:545:GLN:NE2	1:G:720:TYR:O	2.22	0.72
1:I:545:GLN:NE2	1:I:720:TYR:O	2.22	0.72
1:J:519:PRO:HG3	1:P:475:ARG:O	1.89	0.72
1:N:545:GLN:NE2	1:N:720:TYR:O	2.22	0.72
1:O:397:TYR:HE2	1:w:692:LYS:HE3	1.52	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:T:350:LEU:CD2	1:T:395:LEU:CD2	2.65	0.72
1:W:350:LEU:CD2	1:W:395:LEU:CD2	2.65	0.72
1:X:545:GLN:NE2	1:X:720:TYR:O	2.22	0.72
1:o:545:GLN:NE2	1:o:720:TYR:O	2.22	0.72
1:q:545:GLN:NE2	1:q:720:TYR:O	2.22	0.72
1:t:545:GLN:NE2	1:t:720:TYR:O	2.22	0.72
1:6:350:LEU:CD2	1:6:395:LEU:CD2	2.65	0.72
1:E:692:LYS:HE3	1:l:397:TYR:HE2	1.52	0.72
1:J:545:GLN:NE2	1:J:720:TYR:O	2.22	0.72
1:K:350:LEU:HD22	1:K:395:LEU:HD23	1.69	0.72
1:M:545:GLN:NE2	1:M:720:TYR:O	2.22	0.72
1:O:545:GLN:NE2	1:O:720:TYR:O	2.22	0.72
1:R:519:PRO:HG3	1:k:475:ARG:O	1.89	0.72
1:V:475:ARG:O	1:j:519:PRO:HG3	1.89	0.72
1:l:545:GLN:NE2	1:l:720:TYR:O	2.22	0.72
1:u:545:GLN:NE2	1:u:720:TYR:O	2.22	0.72
1:y:350:LEU:CD2	1:y:395:LEU:CD2	2.65	0.72
1:M:314:LYS:HB3	1:M:410:THR:HG22	1.72	0.72
1:P:519:PRO:HG3	1:p:475:ARG:O	1.89	0.72
1:b:350:LEU:HD22	1:b:395:LEU:HD23	1.69	0.72
1:f:350:LEU:HD22	1:f:395:LEU:HD23	1.69	0.72
1:h:314:LYS:HB3	1:h:410:THR:HG22	1.72	0.72
1:h:350:LEU:HD22	1:h:395:LEU:HD23	1.69	0.72
1:m:350:LEU:CD2	1:m:395:LEU:CD2	2.65	0.72
1:p:350:LEU:CD2	1:p:395:LEU:CD2	2.65	0.72
1:x:247:TRP:CD1	1:x:678:VAL:HG23	2.25	0.72
1:2:545:GLN:NE2	1:2:720:TYR:O	2.22	0.72
1:5:350:LEU:HD22	1:5:395:LEU:HD23	1.69	0.72
1:D:247:TRP:CD1	1:D:678:VAL:HG23	2.25	0.71
1:H:350:LEU:HD22	1:H:395:LEU:HD23	1.69	0.71
1:M:350:LEU:HD22	1:M:395:LEU:HD23	1.69	0.71
1:Q:247:TRP:CD1	1:Q:678:VAL:HG23	2.25	0.71
1:V:314:LYS:HB3	1:V:410:THR:HG22	1.72	0.71
1:d:545:GLN:NE2	1:d:720:TYR:O	2.22	0.71
1:k:247:TRP:CD1	1:k:678:VAL:HG23	2.25	0.71
1:k:350:LEU:HD22	1:k:395:LEU:HD23	1.69	0.71
1:w:545:GLN:NE2	1:w:720:TYR:O	2.22	0.71
1:4:350:LEU:HD22	1:4:395:LEU:HD23	1.69	0.71
1:6:545:GLN:NE2	1:6:720:TYR:O	2.22	0.71
1:C:314:LYS:HB3	1:C:410:THR:HG22	1.72	0.71
1:D:692:LYS:HE3	1:q:397:TYR:HE2	1.54	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:314:LYS:HB3	1:H:410:THR:HG22	1.72	0.71
1:K:475:ARG:O	1:W:519:PRO:HG3	1.89	0.71
1:P:350:LEU:HD22	1:P:395:LEU:HD23	1.69	0.71
1:S:314:LYS:HB3	1:S:410:THR:HG22	1.72	0.71
1:b:314:LYS:HB3	1:b:410:THR:HG22	1.72	0.71
1:d:302:ASN:HD21	1:k:302:ASN:HD21	1.35	0.71
1:n:545:GLN:NE2	1:n:720:TYR:O	2.22	0.71
1:p:314:LYS:HB3	1:p:410:THR:HG22	1.72	0.71
1:r:314:LYS:HB3	1:r:410:THR:HG22	1.72	0.71
1:z:545:GLN:NE2	1:z:720:TYR:O	2.22	0.71
1:7:247:TRP:CD1	1:7:678:VAL:HG23	2.25	0.71
1:8:350:LEU:HD22	1:8:395:LEU:HD23	1.69	0.71
1:J:247:TRP:CD1	1:J:678:VAL:HG23	2.26	0.71
1:P:247:TRP:CD1	1:P:678:VAL:HG23	2.25	0.71
1:V:350:LEU:CD2	1:V:395:LEU:CD2	2.65	0.71
1:W:545:GLN:NE2	1:W:720:TYR:O	2.22	0.71
1:Z:314:LYS:HB3	1:Z:410:THR:HG22	1.72	0.71
1:c:247:TRP:CD1	1:c:678:VAL:HG23	2.25	0.71
1:f:314:LYS:HB3	1:f:410:THR:HG22	1.72	0.71
1:g:314:LYS:HB3	1:g:410:THR:HG22	1.72	0.71
1:2:247:TRP:CD1	1:2:678:VAL:HG23	2.25	0.71
1:5:314:LYS:HB3	1:5:410:THR:HG22	1.72	0.71
1:I:302:ASN:HD21	1:Q:302:ASN:HD21	1.36	0.71
1:L:545:GLN:NE2	1:L:720:TYR:O	2.22	0.71
1:V:545:GLN:NE2	1:V:720:TYR:O	2.22	0.71
1:Y:247:TRP:CD1	1:Y:678:VAL:HG23	2.26	0.71
1:a:247:TRP:CD1	1:a:678:VAL:HG23	2.25	0.71
1:e:247:TRP:CD1	1:e:678:VAL:HG23	2.25	0.71
1:e:350:LEU:HD22	1:e:395:LEU:HD23	1.69	0.71
1:j:350:LEU:HD22	1:j:395:LEU:HD23	1.69	0.71
1:q:314:LYS:HB3	1:q:410:THR:HG22	1.72	0.71
1:x:545:GLN:NE2	1:x:720:TYR:O	2.22	0.71
1:3:247:TRP:CD1	1:3:678:VAL:HG23	2.25	0.71
1:4:475:ARG:O	1:6:519:PRO:HG3	1.89	0.71
1:8:314:LYS:HB3	1:8:410:THR:HG22	1.72	0.71
1:A:545:GLN:NE2	1:A:720:TYR:O	2.22	0.71
1:F:247:TRP:CD1	1:F:678:VAL:HG23	2.25	0.71
1:H:247:TRP:CD1	1:H:678:VAL:HG23	2.25	0.71
1:P:545:GLN:NE2	1:P:720:TYR:O	2.22	0.71
1:Q:545:GLN:NE2	1:Q:720:TYR:O	2.22	0.71
1:R:314:LYS:HB3	1:R:410:THR:HG22	1.72	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:U:545:GLN:NE2	1:U:720:TYR:O	2.22	0.71
1:Y:350:LEU:CD2	1:Y:395:LEU:CD2	2.65	0.71
1:e:545:GLN:NE2	1:e:720:TYR:O	2.22	0.71
1:j:247:TRP:CD1	1:j:678:VAL:HG23	2.26	0.71
1:p:247:TRP:CD1	1:p:678:VAL:HG23	2.25	0.71
1:p:545:GLN:NE2	1:p:720:TYR:O	2.22	0.71
1:s:350:LEU:HD22	1:s:395:LEU:HD23	1.69	0.71
1:s:545:GLN:NE2	1:s:720:TYR:O	2.22	0.71
1:v:545:GLN:NE2	1:v:720:TYR:O	2.22	0.71
1:F:475:ARG:O	1:b:519:PRO:HG3	1.89	0.71
1:I:247:TRP:CD1	1:I:678:VAL:HG23	2.25	0.71
1:S:350:LEU:HD22	1:S:395:LEU:HD23	1.69	0.71
1:S:475:ARG:O	1:g:519:PRO:HG3	1.89	0.71
1:U:350:LEU:HD22	1:U:395:LEU:HD23	1.69	0.71
1:V:247:TRP:CD1	1:V:678:VAL:HG23	2.25	0.71
1:c:314:LYS:HB3	1:c:410:THR:HG22	1.72	0.71
1:e:314:LYS:HB3	1:e:410:THR:HG22	1.72	0.71
1:f:519:PRO:HG3	1:y:475:ARG:O	1.89	0.71
1:i:247:TRP:CD1	1:i:678:VAL:HG23	2.25	0.71
1:j:545:GLN:NE2	1:j:720:TYR:O	2.22	0.71
1:l:247:TRP:CD1	1:l:678:VAL:HG23	2.25	0.71
1:r:350:LEU:HD22	1:r:395:LEU:HD23	1.69	0.71
1:y:247:TRP:CD1	1:y:678:VAL:HG23	2.25	0.71
1:1:523:MET:HA	1:1:523:MET:CE	2.21	0.71
1:5:247:TRP:CD1	1:5:678:VAL:HG23	2.25	0.71
1:A:523:MET:HA	1:A:523:MET:CE	2.21	0.71
1:D:474:SER:HB2	1:q:518:ASN:ND2	2.02	0.71
1:O:247:TRP:CD1	1:O:678:VAL:HG23	2.25	0.71
1:W:350:LEU:HD22	1:W:395:LEU:HD23	1.69	0.71
1:b:475:ARG:O	1:n:519:PRO:HG3	1.89	0.71
1:c:545:GLN:NE2	1:c:720:TYR:O	2.22	0.71
1:d:519:PRO:HG3	1:f:475:ARG:O	1.89	0.71
1:u:247:TRP:CD1	1:u:678:VAL:HG23	2.25	0.71
1:u:302:ASN:HD21	1:x:302:ASN:HD21	1.36	0.71
1:v:523:MET:HA	1:v:523:MET:CE	2.21	0.71
1:4:314:LYS:HB3	1:4:410:THR:HG22	1.72	0.71
1:C:519:PRO:HG3	1:r:475:ARG:O	1.89	0.71
1:K:314:LYS:HB3	1:K:410:THR:HG22	1.72	0.71
1:P:314:LYS:HB3	1:P:410:THR:HG22	1.72	0.71
1:j:314:LYS:HB3	1:j:410:THR:HG22	1.72	0.71
1:k:545:GLN:NE2	1:k:720:TYR:O	2.22	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:r:247:TRP:CD1	1:r:678:VAL:HG23	2.25	0.71
1:v:314:LYS:HB3	1:v:410:THR:HG22	1.72	0.71
1:B:247:TRP:CD1	1:B:678:VAL:HG23	2.25	0.71
1:D:286:ARG:NH1	1:D:361:CYS:SG	2.64	0.71
1:D:545:GLN:NE2	1:D:720:TYR:O	2.22	0.71
1:N:247:TRP:CD1	1:N:678:VAL:HG23	2.26	0.71
1:S:247:TRP:CD1	1:S:678:VAL:HG23	2.25	0.71
1:b:247:TRP:CD1	1:b:678:VAL:HG23	2.25	0.71
1:g:247:TRP:CD1	1:g:678:VAL:HG23	2.25	0.71
1:h:247:TRP:CD1	1:h:678:VAL:HG23	2.25	0.71
1:i:314:LYS:HB3	1:i:410:THR:HG22	1.72	0.71
1:k:286:ARG:NH1	1:k:361:CYS:SG	2.64	0.71
1:m:314:LYS:HB3	1:m:410:THR:HG22	1.72	0.71
1:A:286:ARG:NH1	1:A:361:CYS:SG	2.64	0.71
1:B:286:ARG:NH1	1:B:361:CYS:SG	2.64	0.71
1:C:286:ARG:NH1	1:C:361:CYS:SG	2.64	0.71
1:L:247:TRP:CD1	1:L:678:VAL:HG23	2.25	0.71
1:M:247:TRP:CD1	1:M:678:VAL:HG23	2.25	0.71
1:N:286:ARG:NH1	1:N:361:CYS:SG	2.64	0.71
1:N:314:LYS:HB3	1:N:410:THR:HG22	1.72	0.71
1:T:314:LYS:HB3	1:T:410:THR:HG22	1.72	0.71
1:W:247:TRP:CD1	1:W:678:VAL:HG23	2.25	0.71
1:b:286:ARG:NH1	1:b:361:CYS:SG	2.64	0.71
1:v:286:ARG:NH1	1:v:361:CYS:SG	2.64	0.71
1:z:247:TRP:CD1	1:z:678:VAL:HG23	2.26	0.71
1:1:247:TRP:CD1	1:1:678:VAL:HG23	2.26	0.71
1:6:247:TRP:CD1	1:6:678:VAL:HG23	2.25	0.71
1:6:350:LEU:HD22	1:6:395:LEU:HD23	1.69	0.71
1:A:314:LYS:HB3	1:A:410:THR:HG22	1.72	0.70
1:C:247:TRP:CD1	1:C:678:VAL:HG23	2.25	0.70
1:D:314:LYS:HB3	1:D:410:THR:HG22	1.72	0.70
1:E:286:ARG:NH1	1:E:361:CYS:SG	2.64	0.70
1:G:286:ARG:NH1	1:G:361:CYS:SG	2.64	0.70
1:Q:286:ARG:NH1	1:Q:361:CYS:SG	2.64	0.70
1:U:286:ARG:NH1	1:U:361:CYS:SG	2.64	0.70
1:V:286:ARG:NH1	1:V:361:CYS:SG	2.64	0.70
1:X:247:TRP:CD1	1:X:678:VAL:HG23	2.25	0.70
1:Z:247:TRP:CD1	1:Z:678:VAL:HG23	2.25	0.70
1:Z:523:MET:HA	1:Z:523:MET:CE	2.21	0.70
1:d:286:ARG:NH1	1:d:361:CYS:SG	2.64	0.70
1:f:247:TRP:CD1	1:f:678:VAL:HG23	2.26	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:f:286:ARG:NH1	1:f:361:CYS:SG	2.64	0.70
1:g:286:ARG:NH1	1:g:361:CYS:SG	2.64	0.70
1:i:286:ARG:NH1	1:i:361:CYS:SG	2.64	0.70
1:k:314:LYS:HB3	1:k:410:THR:HG22	1.72	0.70
1:m:247:TRP:CD1	1:m:678:VAL:HG23	2.25	0.70
1:n:286:ARG:NH1	1:n:361:CYS:SG	2.64	0.70
1:o:247:TRP:CD1	1:o:678:VAL:HG23	2.25	0.70
1:q:350:LEU:HD22	1:q:395:LEU:HD23	1.69	0.70
1:s:286:ARG:NH1	1:s:361:CYS:SG	2.64	0.70
1:w:286:ARG:NH1	1:w:361:CYS:SG	2.64	0.70
1:1:286:ARG:NH1	1:1:361:CYS:SG	2.64	0.70
1:5:286:ARG:NH1	1:5:361:CYS:SG	2.64	0.70
1:8:247:TRP:CD1	1:8:678:VAL:HG23	2.25	0.70
1:E:247:TRP:CD1	1:E:678:VAL:HG23	2.25	0.70
1:G:314:LYS:HB3	1:G:410:THR:HG22	1.72	0.70
1:H:286:ARG:NH1	1:H:361:CYS:SG	2.64	0.70
1:R:350:LEU:HD22	1:R:395:LEU:HD23	1.69	0.70
1:T:247:TRP:CD1	1:T:678:VAL:HG23	2.25	0.70
1:Z:286:ARG:NH1	1:Z:361:CYS:SG	2.64	0.70
1:p:286:ARG:NH1	1:p:361:CYS:SG	2.64	0.70
1:r:523:MET:HA	1:r:523:MET:CE	2.21	0.70
1:t:286:ARG:NH1	1:t:361:CYS:SG	2.64	0.70
1:u:523:MET:HA	1:u:523:MET:CE	2.21	0.70
1:w:314:LYS:HB3	1:w:410:THR:HG22	1.72	0.70
1:x:286:ARG:NH1	1:x:361:CYS:SG	2.64	0.70
1:y:286:ARG:NH1	1:y:361:CYS:SG	2.64	0.70
1:z:286:ARG:NH1	1:z:361:CYS:SG	2.64	0.70
1:8:523:MET:HA	1:8:523:MET:CE	2.21	0.70
1:F:286:ARG:NH1	1:F:361:CYS:SG	2.64	0.70
1:J:286:ARG:NH1	1:J:361:CYS:SG	2.64	0.70
1:K:523:MET:HA	1:K:523:MET:CE	2.21	0.70
1:L:286:ARG:NH1	1:L:361:CYS:SG	2.64	0.70
1:L:314:LYS:HB3	1:L:410:THR:HG22	1.72	0.70
1:R:247:TRP:CD1	1:R:678:VAL:HG23	2.25	0.70
1:a:286:ARG:NH1	1:a:361:CYS:SG	2.64	0.70
1:z:314:LYS:HB3	1:z:410:THR:HG22	1.72	0.70
1:3:286:ARG:NH1	1:3:361:CYS:SG	2.64	0.70
1:4:247:TRP:CD1	1:4:678:VAL:HG23	2.25	0.70
1:8:286:ARG:NH1	1:8:361:CYS:SG	2.64	0.70
1:A:247:TRP:CD1	1:A:678:VAL:HG23	2.25	0.70
1:E:314:LYS:HB3	1:E:410:THR:HG22	1.72	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:523:MET:HA	1:I:523:MET:CE	2.21	0.70
1:K:247:TRP:CD1	1:K:678:VAL:HG23	2.25	0.70
1:S:523:MET:HA	1:S:523:MET:CE	2.21	0.70
1:a:314:LYS:HB3	1:a:410:THR:HG22	1.72	0.70
1:q:247:TRP:CD1	1:q:678:VAL:HG23	2.25	0.70
1:s:314:LYS:HB3	1:s:410:THR:HG22	1.72	0.70
1:t:314:LYS:HB3	1:t:410:THR:HG22	1.72	0.70
1:v:247:TRP:CD1	1:v:678:VAL:HG23	2.25	0.70
1:w:247:TRP:CD1	1:w:678:VAL:HG23	2.25	0.70
1:2:286:ARG:NH1	1:2:361:CYS:SG	2.64	0.70
1:3:314:LYS:HB3	1:3:410:THR:HG22	1.72	0.70
1:3:523:MET:HA	1:3:523:MET:CE	2.21	0.70
1:O:286:ARG:NH1	1:O:361:CYS:SG	2.64	0.70
1:U:247:TRP:CD1	1:U:678:VAL:HG23	2.25	0.70
1:U:314:LYS:HB3	1:U:410:THR:HG22	1.72	0.70
1:Y:314:LYS:HB3	1:Y:410:THR:HG22	1.72	0.70
1:i:523:MET:HA	1:i:523:MET:CE	2.21	0.70
1:l:286:ARG:NH1	1:l:361:CYS:SG	2.64	0.70
1:4:523:MET:HA	1:4:523:MET:CE	2.21	0.70
1:N:523:MET:HA	1:N:523:MET:CE	2.21	0.70
1:Y:286:ARG:NH1	1:Y:361:CYS:SG	2.64	0.70
1:c:286:ARG:NH1	1:c:361:CYS:SG	2.64	0.70
1:d:247:TRP:CD1	1:d:678:VAL:HG23	2.25	0.70
1:s:247:TRP:CD1	1:s:678:VAL:HG23	2.26	0.70
1:7:286:ARG:NH1	1:7:361:CYS:SG	2.64	0.70
1:7:314:LYS:HB3	1:7:410:THR:HG22	1.72	0.70
1:E:518:ASN:ND2	1:X:474:SER:HB2	2.04	0.70
1:G:247:TRP:CD1	1:G:678:VAL:HG23	2.25	0.70
1:P:286:ARG:NH1	1:P:361:CYS:SG	2.64	0.70
1:Q:314:LYS:HB3	1:Q:410:THR:HG22	1.72	0.70
1:X:286:ARG:NH1	1:X:361:CYS:SG	2.64	0.70
1:a:693:ARG:HH21	1:a:695:ASN:HB3	1.57	0.70
1:e:286:ARG:NH1	1:e:361:CYS:SG	2.64	0.70
1:o:286:ARG:NH1	1:o:361:CYS:SG	2.64	0.70
1:u:286:ARG:NH1	1:u:361:CYS:SG	2.64	0.70
1:B:314:LYS:HB3	1:B:410:THR:HG22	1.72	0.70
1:I:286:ARG:NH1	1:I:361:CYS:SG	2.64	0.70
1:I:518:ASN:ND2	1:U:474:SER:HB2	2.04	0.70
1:P:693:ARG:HH21	1:P:695:ASN:HB3	1.57	0.70
1:j:693:ARG:HH21	1:j:695:ASN:HB3	1.57	0.70
1:n:247:TRP:CD1	1:n:678:VAL:HG23	2.25	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:n:314:LYS:HB3	1:n:410:THR:HG22	1.72	0.70
1:q:286:ARG:NH1	1:q:361:CYS:SG	2.64	0.70
1:t:247:TRP:CD1	1:t:678:VAL:HG23	2.25	0.70
1:x:314:LYS:HB3	1:x:410:THR:HG22	1.72	0.70
1:1:314:LYS:HB3	1:1:410:THR:HG22	1.72	0.70
1:2:314:LYS:HB3	1:2:410:THR:HG22	1.72	0.70
1:3:693:ARG:HH21	1:3:695:ASN:HB3	1.57	0.70
1:C:397:TYR:HE2	1:r:692:LYS:CE	2.05	0.70
1:D:345:ASP:O	1:D:346:SER:HB2	1.92	0.70
1:D:693:ARG:HH21	1:D:695:ASN:HB3	1.57	0.70
1:I:314:LYS:HB3	1:I:410:THR:HG22	1.72	0.70
1:I:349:GLN:HE21	1:I:349:GLN:CA	2.04	0.70
1:J:314:LYS:HB3	1:J:410:THR:HG22	1.72	0.70
1:R:286:ARG:NH1	1:R:361:CYS:SG	2.64	0.70
1:Z:693:ARG:HH21	1:Z:695:ASN:HB3	1.57	0.70
1:d:345:ASP:O	1:d:346:SER:HB2	1.92	0.70
1:f:345:ASP:O	1:f:346:SER:HB2	1.92	0.70
1:i:345:ASP:O	1:i:346:SER:HB2	1.92	0.70
1:j:286:ARG:NH1	1:j:361:CYS:SG	2.64	0.70
1:k:345:ASP:O	1:k:346:SER:HB2	1.92	0.70
1:u:434:MET:SD	1:u:473:GLN:NE2	2.65	0.70
1:x:523:MET:HA	1:x:523:MET:CE	2.21	0.70
1:6:286:ARG:NH1	1:6:361:CYS:SG	2.64	0.70
1:6:314:LYS:HB3	1:6:410:THR:HG22	1.72	0.70
1:8:693:ARG:HH21	1:8:695:ASN:HB3	1.57	0.70
1:A:345:ASP:O	1:A:346:SER:HB2	1.92	0.70
1:I:434:MET:SD	1:I:473:GLN:NE2	2.65	0.70
1:N:345:ASP:O	1:N:346:SER:HB2	1.92	0.70
1:O:434:MET:SD	1:O:473:GLN:NE2	2.65	0.70
1:Q:345:ASP:O	1:Q:346:SER:HB2	1.92	0.70
1:V:434:MET:SD	1:V:473:GLN:NE2	2.65	0.70
1:W:286:ARG:NH1	1:W:361:CYS:SG	2.64	0.70
1:b:434:MET:SD	1:b:473:GLN:NE2	2.65	0.70
1:d:314:LYS:HB3	1:d:410:THR:HG22	1.72	0.70
1:h:434:MET:SD	1:h:473:GLN:NE2	2.65	0.70
1:k:693:ARG:HH21	1:k:695:ASN:HB3	1.57	0.70
1:l:434:MET:SD	1:l:473:GLN:NE2	2.65	0.70
1:n:345:ASP:O	1:n:346:SER:HB2	1.92	0.70
1:p:434:MET:SD	1:p:473:GLN:NE2	2.65	0.70
1:r:434:MET:SD	1:r:473:GLN:NE2	2.65	0.70
1:u:314:LYS:HB3	1:u:410:THR:HG22	1.72	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:x:345:ASP:O	1:x:346:SER:HB2	1.92	0.70
1:B:434:MET:SD	1:B:473:GLN:NE2	2.65	0.69
1:K:286:ARG:NH1	1:K:361:CYS:SG	2.64	0.69
1:M:434:MET:SD	1:M:473:GLN:NE2	2.65	0.69
1:N:434:MET:SD	1:N:473:GLN:NE2	2.65	0.69
1:O:314:LYS:HB3	1:O:410:THR:HG22	1.72	0.69
1:O:693:ARG:HH21	1:O:695:ASN:HB3	1.57	0.69
1:Q:434:MET:SD	1:Q:473:GLN:NE2	2.65	0.69
1:Q:523:MET:HA	1:Q:523:MET:CE	2.21	0.69
1:S:434:MET:SD	1:S:473:GLN:NE2	2.65	0.69
1:T:345:ASP:O	1:T:346:SER:HB2	1.92	0.69
1:W:314:LYS:HB3	1:W:410:THR:HG22	1.72	0.69
1:X:314:LYS:HB3	1:X:410:THR:HG22	1.72	0.69
1:X:693:ARG:HH21	1:X:695:ASN:HB3	1.57	0.69
1:a:434:MET:SD	1:a:473:GLN:NE2	2.65	0.69
1:b:345:ASP:O	1:b:346:SER:HB2	1.92	0.69
1:f:434:MET:SD	1:f:473:GLN:NE2	2.65	0.69
1:i:434:MET:SD	1:i:473:GLN:NE2	2.65	0.69
1:l:314:LYS:HB3	1:l:410:THR:HG22	1.72	0.69
1:o:314:LYS:HB3	1:o:410:THR:HG22	1.72	0.69
1:o:693:ARG:HH21	1:o:695:ASN:HB3	1.57	0.69
1:v:345:ASP:O	1:v:346:SER:HB2	1.92	0.69
1:x:434:MET:SD	1:x:473:GLN:NE2	2.65	0.69
1:y:314:LYS:HB3	1:y:410:THR:HG22	1.72	0.69
1:5:434:MET:SD	1:5:473:GLN:NE2	2.65	0.69
1:A:434:MET:SD	1:A:473:GLN:NE2	2.65	0.69
1:C:434:MET:SD	1:C:473:GLN:NE2	2.65	0.69
1:H:434:MET:SD	1:H:473:GLN:NE2	2.65	0.69
1:H:693:ARG:HH21	1:H:695:ASN:HB3	1.57	0.69
1:J:693:ARG:HH21	1:J:695:ASN:HB3	1.57	0.69
1:M:286:ARG:NH1	1:M:361:CYS:SG	2.64	0.69
1:N:350:LEU:HD22	1:N:395:LEU:HD23	1.69	0.69
1:T:286:ARG:NH1	1:T:361:CYS:SG	2.64	0.69
1:Y:434:MET:SD	1:Y:473:GLN:NE2	2.65	0.69
1:e:434:MET:SD	1:e:473:GLN:NE2	2.65	0.69
1:l:693:ARG:HH21	1:l:695:ASN:HB3	1.57	0.69
1:m:286:ARG:NH1	1:m:361:CYS:SG	2.64	0.69
1:m:345:ASP:O	1:m:346:SER:HB2	1.92	0.69
1:p:693:ARG:HH21	1:p:695:ASN:HB3	1.57	0.69
1:s:474:SER:HB2	1:u:518:ASN:ND2	2.04	0.69
1:v:434:MET:SD	1:v:473:GLN:NE2	2.65	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:w:309:LYS:HG2	1:w:685:GLU:HG2	1.75	0.69
1:y:434:MET:SD	1:y:473:GLN:NE2	2.65	0.69
1:1:434:MET:SD	1:1:473:GLN:NE2	2.65	0.69
1:3:434:MET:SD	1:3:473:GLN:NE2	2.65	0.69
1:4:693:ARG:HH21	1:4:695:ASN:HB3	1.57	0.69
1:5:693:ARG:HH21	1:5:695:ASN:HB3	1.57	0.69
1:7:434:MET:SD	1:7:473:GLN:NE2	2.65	0.69
1:C:693:ARG:HH21	1:C:695:ASN:HB3	1.57	0.69
1:E:309:LYS:HG2	1:E:685:GLU:HG2	1.75	0.69
1:F:314:LYS:HB3	1:F:410:THR:HG22	1.72	0.69
1:F:434:MET:SD	1:F:473:GLN:NE2	2.65	0.69
1:G:693:ARG:HH21	1:G:695:ASN:HB3	1.57	0.69
1:K:434:MET:SD	1:K:473:GLN:NE2	2.65	0.69
1:P:345:ASP:O	1:P:346:SER:HB2	1.92	0.69
1:P:434:MET:SD	1:P:473:GLN:NE2	2.65	0.69
1:W:434:MET:SD	1:W:473:GLN:NE2	2.65	0.69
1:c:434:MET:SD	1:c:473:GLN:NE2	2.65	0.69
1:d:434:MET:SD	1:d:473:GLN:NE2	2.65	0.69
1:g:434:MET:SD	1:g:473:GLN:NE2	2.65	0.69
1:j:309:LYS:HG2	1:j:685:GLU:HG2	1.75	0.69
1:n:434:MET:SD	1:n:473:GLN:NE2	2.65	0.69
1:2:693:ARG:HH21	1:2:695:ASN:HB3	1.57	0.69
1:4:286:ARG:NH1	1:4:361:CYS:SG	2.64	0.69
1:8:345:ASP:O	1:8:346:SER:HB2	1.92	0.69
1:B:693:ARG:HH21	1:B:695:ASN:HB3	1.57	0.69
1:J:483:TYR:HB3	1:J:521:PRO:HG3	1.75	0.69
1:K:693:ARG:HH21	1:K:695:ASN:HB3	1.57	0.69
1:V:397:TYR:HE2	1:2:692:LYS:CE	2.05	0.69
1:Z:345:ASP:O	1:Z:346:SER:HB2	1.92	0.69
1:h:286:ARG:NH1	1:h:361:CYS:SG	2.64	0.69
1:j:345:ASP:O	1:j:346:SER:HB2	1.92	0.69
1:o:434:MET:SD	1:o:473:GLN:NE2	2.65	0.69
1:z:523:MET:HA	1:z:523:MET:CE	2.21	0.69
1:1:693:ARG:HH21	1:1:695:ASN:HB3	1.57	0.69
1:2:483:TYR:HB3	1:2:521:PRO:HG3	1.75	0.69
1:6:434:MET:SD	1:6:473:GLN:NE2	2.65	0.69
1:C:523:MET:HA	1:C:523:MET:CE	2.21	0.69
1:G:349:GLN:HE21	1:G:349:GLN:CA	2.04	0.69
1:O:309:LYS:HG2	1:O:685:GLU:HG2	1.75	0.69
1:P:309:LYS:HG2	1:P:685:GLU:HG2	1.75	0.69
1:R:434:MET:SD	1:R:473:GLN:NE2	2.65	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:X:434:MET:SD	1:X:473:GLN:NE2	2.65	0.69
1:Y:693:ARG:HH21	1:Y:695:ASN:HB3	1.57	0.69
1:Z:483:TYR:HB3	1:Z:521:PRO:HG3	1.75	0.69
1:g:523:MET:HA	1:g:523:MET:CE	2.21	0.69
1:g:693:ARG:HH21	1:g:695:ASN:HB3	1.57	0.69
1:i:350:LEU:HD22	1:i:395:LEU:HD23	1.69	0.69
1:j:434:MET:SD	1:j:473:GLN:NE2	2.65	0.69
1:q:434:MET:SD	1:q:473:GLN:NE2	2.65	0.69
1:s:345:ASP:O	1:s:346:SER:HB2	1.92	0.69
1:t:693:ARG:HH21	1:t:695:ASN:HB3	1.57	0.69
1:y:309:LYS:HG2	1:y:685:GLU:HG2	1.75	0.69
1:4:434:MET:SD	1:4:473:GLN:NE2	2.65	0.69
1:7:693:ARG:HH21	1:7:695:ASN:HB3	1.57	0.69
1:E:474:SER:HB2	1:l:518:ASN:ND2	2.04	0.69
1:F:693:ARG:HH21	1:F:695:ASN:HB3	1.57	0.69
1:J:345:ASP:O	1:J:346:SER:HB2	1.92	0.69
1:L:523:MET:HA	1:L:523:MET:CE	2.21	0.69
1:M:345:ASP:O	1:M:346:SER:HB2	1.92	0.69
1:U:345:ASP:O	1:U:346:SER:HB2	1.92	0.69
1:V:693:ARG:HH21	1:V:695:ASN:HB3	1.57	0.69
1:X:523:MET:HA	1:X:523:MET:CE	2.21	0.69
1:c:309:LYS:HG2	1:c:685:GLU:HG2	1.75	0.69
1:c:523:MET:HA	1:c:523:MET:CE	2.21	0.69
1:d:523:MET:HA	1:d:523:MET:CE	2.21	0.69
1:e:309:LYS:HG2	1:e:685:GLU:HG2	1.75	0.69
1:k:434:MET:SD	1:k:473:GLN:NE2	2.65	0.69
1:l:309:LYS:HG2	1:l:685:GLU:HG2	1.75	0.69
1:r:397:TYR:HE2	1:5:692:LYS:CE	2.05	0.69
1:y:693:ARG:HH21	1:y:695:ASN:HB3	1.57	0.69
1:8:483:TYR:HB3	1:8:521:PRO:HG3	1.75	0.69
1:A:309:LYS:HG2	1:A:685:GLU:HG2	1.75	0.69
1:D:434:MET:SD	1:D:473:GLN:NE2	2.65	0.69
1:E:434:MET:SD	1:E:473:GLN:NE2	2.65	0.69
1:F:345:ASP:O	1:F:346:SER:HB2	1.92	0.69
1:I:345:ASP:O	1:I:346:SER:HB2	1.92	0.69
1:N:309:LYS:HG2	1:N:685:GLU:HG2	1.75	0.69
1:O:474:SER:HB2	1:o:518:ASN:ND2	2.04	0.69
1:T:434:MET:SD	1:T:473:GLN:NE2	2.65	0.69
1:U:434:MET:SD	1:U:473:GLN:NE2	2.65	0.69
1:b:693:ARG:HH21	1:b:695:ASN:HB3	1.57	0.69
1:c:350:LEU:HD22	1:c:395:LEU:HD23	1.69	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:e:523:MET:HA	1:e:523:MET:CE	2.21	0.69
1:i:693:ARG:HH21	1:i:695:ASN:HB3	1.57	0.69
1:n:523:MET:HA	1:n:523:MET:CE	2.21	0.69
1:p:345:ASP:O	1:p:346:SER:HB2	1.92	0.69
1:r:286:ARG:NH1	1:r:361:CYS:SG	2.64	0.69
1:s:434:MET:SD	1:s:473:GLN:NE2	2.65	0.69
1:u:345:ASP:O	1:u:346:SER:HB2	1.92	0.69
1:v:309:LYS:HG2	1:v:685:GLU:HG2	1.75	0.69
1:x:309:LYS:HG2	1:x:685:GLU:HG2	1.75	0.69
1:y:345:ASP:O	1:y:346:SER:HB2	1.92	0.69
1:2:309:LYS:HG2	1:2:685:GLU:HG2	1.75	0.69
1:2:345:ASP:O	1:2:346:SER:HB2	1.92	0.69
1:C:269:ASP:HA	1:C:513:ARG:HB2	1.75	0.69
1:F:309:LYS:HG2	1:F:685:GLU:HG2	1.75	0.69
1:G:434:MET:SD	1:G:473:GLN:NE2	2.65	0.69
1:H:309:LYS:HG2	1:H:685:GLU:HG2	1.75	0.69
1:I:309:LYS:HG2	1:I:685:GLU:HG2	1.75	0.69
1:J:309:LYS:HG2	1:J:685:GLU:HG2	1.75	0.69
1:J:434:MET:SD	1:J:473:GLN:NE2	2.65	0.69
1:M:483:TYR:HB3	1:M:521:PRO:HG3	1.75	0.69
1:M:693:ARG:HH21	1:M:695:ASN:HB3	1.57	0.69
1:N:693:ARG:HH21	1:N:695:ASN:HB3	1.57	0.69
1:O:518:ASN:ND2	1:w:474:SER:HB2	2.04	0.69
1:Q:309:LYS:HG2	1:Q:685:GLU:HG2	1.75	0.69
1:S:286:ARG:NH1	1:S:361:CYS:SG	2.64	0.69
1:V:345:ASP:O	1:V:346:SER:HB2	1.92	0.69
1:X:483:TYR:HB3	1:X:521:PRO:HG3	1.75	0.69
1:X:518:ASN:ND2	1:l:474:SER:HB2	2.04	0.69
1:a:269:ASP:HA	1:a:513:ARG:HB2	1.75	0.69
1:b:309:LYS:HG2	1:b:685:GLU:HG2	1.75	0.69
1:b:483:TYR:HB3	1:b:521:PRO:HG3	1.75	0.69
1:e:474:SER:HB2	1:3:518:ASN:ND2	2.04	0.69
1:f:309:LYS:HG2	1:f:685:GLU:HG2	1.75	0.69
1:f:483:TYR:HB3	1:f:521:PRO:HG3	1.75	0.69
1:f:693:ARG:HH21	1:f:695:ASN:HB3	1.57	0.69
1:g:269:ASP:HA	1:g:513:ARG:HB2	1.75	0.69
1:h:345:ASP:O	1:h:346:SER:HB2	1.92	0.69
1:h:483:TYR:HB3	1:h:521:PRO:HG3	1.75	0.69
1:h:693:ARG:HH21	1:h:695:ASN:HB3	1.57	0.69
1:i:309:LYS:HG2	1:i:685:GLU:HG2	1.75	0.69
1:m:434:MET:SD	1:m:473:GLN:NE2	2.65	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:s:523:MET:HA	1:s:523:MET:CE	2.21	0.69
1:t:345:ASP:O	1:t:346:SER:HB2	1.92	0.69
1:t:434:MET:SD	1:t:473:GLN:NE2	2.65	0.69
1:u:309:LYS:HG2	1:u:685:GLU:HG2	1.75	0.69
1:w:434:MET:SD	1:w:473:GLN:NE2	2.65	0.69
1:2:434:MET:SD	1:2:473:GLN:NE2	2.65	0.69
1:3:269:ASP:HA	1:3:513:ARG:HB2	1.75	0.69
1:E:345:ASP:O	1:E:346:SER:HB2	1.92	0.69
1:G:345:ASP:O	1:G:346:SER:HB2	1.92	0.69
1:G:483:TYR:HB3	1:G:521:PRO:HG3	1.75	0.69
1:J:518:ASN:ND2	1:P:474:SER:HB2	2.05	0.69
1:S:692:LYS:CE	1:g:397:TYR:HE2	2.06	0.69
1:S:693:ARG:HH21	1:S:695:ASN:HB3	1.57	0.69
1:U:523:MET:HA	1:U:523:MET:CE	2.21	0.69
1:W:269:ASP:HA	1:W:513:ARG:HB2	1.75	0.69
1:W:309:LYS:HG2	1:W:685:GLU:HG2	1.75	0.69
1:X:345:ASP:O	1:X:346:SER:HB2	1.92	0.69
1:a:518:ASN:ND2	1:c:474:SER:HB2	2.04	0.69
1:m:693:ARG:HH21	1:m:695:ASN:HB3	1.57	0.69
1:o:523:MET:HA	1:o:523:MET:CE	2.21	0.69
1:w:345:ASP:O	1:w:346:SER:HB2	1.92	0.69
1:1:345:ASP:O	1:1:346:SER:HB2	1.92	0.69
1:5:309:LYS:HG2	1:5:685:GLU:HG2	1.75	0.69
1:5:345:ASP:O	1:5:346:SER:HB2	1.92	0.69
1:6:269:ASP:HA	1:6:513:ARG:HB2	1.75	0.69
1:6:309:LYS:HG2	1:6:685:GLU:HG2	1.75	0.69
1:B:345:ASP:O	1:B:346:SER:HB2	1.92	0.69
1:H:692:LYS:CE	1:S:397:TYR:HE2	2.06	0.69
1:T:693:ARG:HH21	1:T:695:ASN:HB3	1.57	0.69
1:o:345:ASP:O	1:o:346:SER:HB2	1.92	0.69
1:o:483:TYR:HB3	1:o:521:PRO:HG3	1.75	0.69
1:r:693:ARG:HH21	1:r:695:ASN:HB3	1.57	0.69
1:s:309:LYS:HG2	1:s:685:GLU:HG2	1.75	0.69
1:t:483:TYR:HB3	1:t:521:PRO:HG3	1.75	0.69
1:u:483:TYR:HB3	1:u:521:PRO:HG3	1.75	0.69
1:v:693:ARG:HH21	1:v:695:ASN:HB3	1.57	0.69
1:w:523:MET:HA	1:w:523:MET:CE	2.21	0.69
1:z:345:ASP:O	1:z:346:SER:HB2	1.92	0.69
1:4:483:TYR:HB3	1:4:521:PRO:HG3	1.75	0.69
1:G:309:LYS:HG2	1:G:685:GLU:HG2	1.75	0.68
1:I:483:TYR:HB3	1:I:521:PRO:HG3	1.75	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:483:TYR:HB3	1:K:521:PRO:HG3	1.75	0.68
1:L:345:ASP:O	1:L:346:SER:HB2	1.92	0.68
1:U:309:LYS:HG2	1:U:685:GLU:HG2	1.75	0.68
1:Y:345:ASP:O	1:Y:346:SER:HB2	1.92	0.68
1:Z:434:MET:SD	1:Z:473:GLN:NE2	2.65	0.68
1:l:345:ASP:O	1:l:346:SER:HB2	1.92	0.68
1:t:309:LYS:HG2	1:t:685:GLU:HG2	1.75	0.68
1:y:349:GLN:HE21	1:y:349:GLN:CA	2.04	0.68
1:6:345:ASP:O	1:6:346:SER:HB2	1.92	0.68
1:7:345:ASP:O	1:7:346:SER:HB2	1.92	0.68
1:8:434:MET:SD	1:8:473:GLN:NE2	2.65	0.68
1:A:483:TYR:HB3	1:A:521:PRO:HG3	1.75	0.68
1:B:309:LYS:HG2	1:B:685:GLU:HG2	1.75	0.68
1:D:483:TYR:HB3	1:D:521:PRO:HG3	1.75	0.68
1:H:345:ASP:O	1:H:346:SER:HB2	1.92	0.68
1:U:269:ASP:HA	1:U:513:ARG:HB2	1.75	0.68
1:V:309:LYS:HG2	1:V:685:GLU:HG2	1.75	0.68
1:Y:309:LYS:HG2	1:Y:685:GLU:HG2	1.75	0.68
1:e:483:TYR:HB3	1:e:521:PRO:HG3	1.75	0.68
1:j:483:TYR:HB3	1:j:521:PRO:HG3	1.75	0.68
1:q:269:ASP:HA	1:q:513:ARG:HB2	1.75	0.68
1:s:269:ASP:HA	1:s:513:ARG:HB2	1.75	0.68
1:u:693:ARG:HH21	1:u:695:ASN:HB3	1.57	0.68
1:v:483:TYR:HB3	1:v:521:PRO:HG3	1.75	0.68
1:1:309:LYS:HG2	1:1:685:GLU:HG2	1.75	0.68
1:7:309:LYS:HG2	1:7:685:GLU:HG2	1.75	0.68
1:A:693:ARG:HH21	1:A:695:ASN:HB3	1.57	0.68
1:F:349:GLN:HE21	1:F:349:GLN:CA	2.04	0.68
1:F:483:TYR:HB3	1:F:521:PRO:HG3	1.75	0.68
1:I:693:ARG:HH21	1:I:695:ASN:HB3	1.57	0.68
1:K:345:ASP:O	1:K:346:SER:HB2	1.92	0.68
1:L:434:MET:SD	1:L:473:GLN:NE2	2.65	0.68
1:P:483:TYR:HB3	1:P:521:PRO:HG3	1.75	0.68
1:R:269:ASP:HA	1:R:513:ARG:HB2	1.75	0.68
1:S:309:LYS:HG2	1:S:685:GLU:HG2	1.75	0.68
1:S:483:TYR:HB3	1:S:521:PRO:HG3	1.75	0.68
1:T:309:LYS:HG2	1:T:685:GLU:HG2	1.75	0.68
1:V:483:TYR:HB3	1:V:521:PRO:HG3	1.75	0.68
1:W:345:ASP:O	1:W:346:SER:HB2	1.92	0.68
1:Z:309:LYS:HG2	1:Z:685:GLU:HG2	1.75	0.68
1:a:345:ASP:O	1:a:346:SER:HB2	1.92	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:c:483:TYR:HB3	1:c:521:PRO:HG3	1.75	0.68
1:j:523:MET:HA	1:j:523:MET:CE	2.21	0.68
1:j:692:LYS:CE	1:2:397:TYR:HE2	2.06	0.68
1:k:269:ASP:HA	1:k:513:ARG:HB2	1.75	0.68
1:q:345:ASP:O	1:q:346:SER:HB2	1.92	0.68
1:r:309:LYS:HG2	1:r:685:GLU:HG2	1.75	0.68
1:r:483:TYR:HB3	1:r:521:PRO:HG3	1.75	0.68
1:2:523:MET:HA	1:2:523:MET:CE	2.21	0.68
1:8:309:LYS:HG2	1:8:685:GLU:HG2	1.75	0.68
1:C:474:SER:HB2	1:5:518:ASN:ND2	2.04	0.68
1:D:269:ASP:HA	1:D:513:ARG:HB2	1.75	0.68
1:M:309:LYS:HG2	1:M:685:GLU:HG2	1.75	0.68
1:P:523:MET:HA	1:P:523:MET:CE	2.21	0.68
1:R:345:ASP:O	1:R:346:SER:HB2	1.92	0.68
1:U:483:TYR:HB3	1:U:521:PRO:HG3	1.75	0.68
1:m:309:LYS:HG2	1:m:685:GLU:HG2	1.75	0.68
1:p:309:LYS:HG2	1:p:685:GLU:HG2	1.75	0.68
1:r:345:ASP:O	1:r:346:SER:HB2	1.92	0.68
1:y:483:TYR:HB3	1:y:521:PRO:HG3	1.75	0.68
1:z:434:MET:SD	1:z:473:GLN:NE2	2.65	0.68
1:2:269:ASP:HA	1:2:513:ARG:HB2	1.75	0.68
1:E:523:MET:HA	1:E:523:MET:CE	2.21	0.68
1:E:693:ARG:HH21	1:E:695:ASN:HB3	1.57	0.68
1:J:523:MET:HA	1:J:523:MET:CE	2.21	0.68
1:N:474:SER:HB2	1:U:518:ASN:ND2	2.05	0.68
1:O:345:ASP:O	1:O:346:SER:HB2	1.92	0.68
1:R:397:TYR:HE2	1:k:692:LYS:CE	2.07	0.68
1:W:350:LEU:HD21	1:W:395:LEU:HD23	1.76	0.68
1:X:269:ASP:HA	1:X:513:ARG:HB2	1.75	0.68
1:b:269:ASP:HA	1:b:513:ARG:HB2	1.75	0.68
1:d:693:ARG:HH21	1:d:695:ASN:HB3	1.57	0.68
1:f:269:ASP:HA	1:f:513:ARG:HB2	1.75	0.68
1:h:309:LYS:HG2	1:h:685:GLU:HG2	1.75	0.68
1:k:483:TYR:HB3	1:k:521:PRO:HG3	1.75	0.68
1:m:483:TYR:HB3	1:m:521:PRO:HG3	1.75	0.68
1:w:693:ARG:HH21	1:w:695:ASN:HB3	1.57	0.68
1:3:345:ASP:O	1:3:346:SER:HB2	1.92	0.68
1:4:345:ASP:O	1:4:346:SER:HB2	1.92	0.68
1:6:350:LEU:HD21	1:6:395:LEU:HD23	1.76	0.68
1:B:350:LEU:HD21	1:B:395:LEU:HD23	1.76	0.68
1:C:345:ASP:O	1:C:346:SER:HB2	1.92	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:518:ASN:ND2	1:g:474:SER:HB2	2.04	0.68
1:J:269:ASP:HA	1:J:513:ARG:HB2	1.75	0.68
1:L:693:ARG:HH21	1:L:695:ASN:HB3	1.57	0.68
1:M:523:MET:HA	1:M:523:MET:CE	2.21	0.68
1:T:483:TYR:HB3	1:T:521:PRO:HG3	1.75	0.68
1:d:269:ASP:HA	1:d:513:ARG:HB2	1.75	0.68
1:h:350:LEU:HD21	1:h:395:LEU:HD23	1.76	0.68
1:i:474:SER:HB2	1:s:518:ASN:ND2	2.04	0.68
1:n:269:ASP:HA	1:n:513:ARG:HB2	1.75	0.68
1:n:693:ARG:HH21	1:n:695:ASN:HB3	1.57	0.68
1:o:269:ASP:HA	1:o:513:ARG:HB2	1.75	0.68
1:p:483:TYR:HB3	1:p:521:PRO:HG3	1.75	0.68
1:s:483:TYR:HB3	1:s:521:PRO:HG3	1.75	0.68
1:z:309:LYS:HG2	1:z:685:GLU:HG2	1.75	0.68
1:1:350:LEU:HD21	1:1:395:LEU:HD23	1.76	0.68
1:5:269:ASP:HA	1:5:513:ARG:HB2	1.75	0.68
1:7:483:TYR:HB3	1:7:521:PRO:HG3	1.75	0.68
1:D:309:LYS:HG2	1:D:685:GLU:HG2	1.75	0.68
1:H:269:ASP:HA	1:H:513:ARG:HB2	1.75	0.68
1:L:269:ASP:HA	1:L:513:ARG:HB2	1.75	0.68
1:L:309:LYS:HG2	1:L:685:GLU:HG2	1.75	0.68
1:M:269:ASP:HA	1:M:513:ARG:HB2	1.75	0.68
1:M:350:LEU:HD21	1:M:395:LEU:HD23	1.76	0.68
1:R:518:ASN:ND2	1:k:474:SER:HB2	2.04	0.68
1:S:345:ASP:O	1:S:346:SER:HB2	1.92	0.68
1:T:269:ASP:HA	1:T:513:ARG:HB2	1.75	0.68
1:h:269:ASP:HA	1:h:513:ARG:HB2	1.75	0.68
1:h:523:MET:HA	1:h:523:MET:CE	2.21	0.68
1:z:397:TYR:HE2	1:7:692:LYS:CE	2.07	0.68
1:z:693:ARG:HH21	1:z:695:ASN:HB3	1.57	0.68
1:8:269:ASP:HA	1:8:513:ARG:HB2	1.75	0.68
1:B:483:TYR:HB3	1:B:521:PRO:HG3	1.75	0.68
1:D:350:LEU:HD21	1:D:395:LEU:HD23	1.76	0.68
1:D:397:TYR:HE2	1:T:692:LYS:CE	2.07	0.68
1:G:474:SER:HB2	1:8:518:ASN:ND2	2.04	0.68
1:L:397:TYR:HE2	1:Y:692:LYS:CE	2.07	0.68
1:Q:483:TYR:HB3	1:Q:521:PRO:HG3	1.75	0.68
1:V:269:ASP:HA	1:V:513:ARG:HB2	1.75	0.68
1:Z:269:ASP:HA	1:Z:513:ARG:HB2	1.75	0.68
1:Z:350:LEU:HD22	1:Z:395:LEU:HD23	1.69	0.68
1:Z:518:ASN:ND2	1:t:474:SER:HB2	2.04	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:m:269:ASP:HA	1:m:513:ARG:HB2	1.75	0.68
1:n:309:LYS:HG2	1:n:685:GLU:HG2	1.75	0.68
1:p:269:ASP:HA	1:p:513:ARG:HB2	1.75	0.68
1:z:269:ASP:HA	1:z:513:ARG:HB2	1.75	0.68
1:z:483:TYR:HB3	1:z:521:PRO:HG3	1.75	0.68
1:G:269:ASP:HA	1:G:513:ARG:HB2	1.75	0.68
1:L:483:TYR:HB3	1:L:521:PRO:HG3	1.75	0.68
1:U:303:ASN:HD22	1:U:686:LEU:HB3	1.59	0.68
1:W:483:TYR:HB3	1:W:521:PRO:HG3	1.75	0.68
1:X:350:LEU:HD21	1:X:395:LEU:HD23	1.76	0.68
1:X:352:TYR:CE2	1:X:354:LEU:HB2	2.29	0.68
1:Y:483:TYR:HB3	1:Y:521:PRO:HG3	1.75	0.68
1:Y:523:MET:HA	1:Y:523:MET:CE	2.21	0.68
1:d:309:LYS:HG2	1:d:685:GLU:HG2	1.75	0.68
1:g:345:ASP:O	1:g:346:SER:HB2	1.92	0.68
1:k:309:LYS:HG2	1:k:685:GLU:HG2	1.75	0.68
1:k:350:LEU:HD21	1:k:395:LEU:HD23	1.76	0.68
1:o:350:LEU:HD21	1:o:395:LEU:HD23	1.76	0.68
1:s:303:ASN:HD22	1:s:686:LEU:HB3	1.59	0.68
1:t:269:ASP:HA	1:t:513:ARG:HB2	1.75	0.68
1:x:483:TYR:HB3	1:x:521:PRO:HG3	1.75	0.68
1:6:483:TYR:HB3	1:6:521:PRO:HG3	1.75	0.68
1:7:523:MET:HA	1:7:523:MET:CE	2.21	0.68
1:A:303:ASN:HD22	1:A:686:LEU:HB3	1.59	0.68
1:B:269:ASP:HA	1:B:513:ARG:HB2	1.75	0.68
1:L:518:ASN:ND2	1:Y:474:SER:HB2	2.04	0.68
1:R:693:ARG:HH21	1:R:695:ASN:HB3	1.57	0.68
1:T:303:ASN:HD22	1:T:686:LEU:HB3	1.59	0.68
1:T:523:MET:HA	1:T:523:MET:CE	2.21	0.68
1:U:352:TYR:CE2	1:U:354:LEU:HB2	2.29	0.68
1:b:352:TYR:CE2	1:b:354:LEU:HB2	2.29	0.68
1:f:352:TYR:CE2	1:f:354:LEU:HB2	2.29	0.68
1:m:303:ASN:HD22	1:m:686:LEU:HB3	1.59	0.68
1:m:350:LEU:HD21	1:m:395:LEU:HD23	1.76	0.68
1:m:523:MET:HA	1:m:523:MET:CE	2.21	0.68
1:q:352:TYR:CE2	1:q:354:LEU:HB2	2.29	0.68
1:s:352:TYR:CE2	1:s:354:LEU:HB2	2.29	0.68
1:u:269:ASP:HA	1:u:513:ARG:HB2	1.75	0.68
1:w:350:LEU:HD21	1:w:395:LEU:HD23	1.76	0.68
1:y:350:LEU:HD21	1:y:395:LEU:HD23	1.76	0.68
1:1:269:ASP:HA	1:1:513:ARG:HB2	1.75	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1:483:TYR:HB3	1:1:521:PRO:HG3	1.75	0.68
1:2:277:THR:HG21	1:2:395:LEU:CD1	2.25	0.68
1:6:693:ARG:HH21	1:6:695:ASN:HB3	1.57	0.68
1:A:692:LYS:CE	1:e:397:TYR:HE2	2.07	0.67
1:B:277:THR:HG21	1:B:395:LEU:CD1	2.25	0.67
1:B:692:LYS:CE	1:4:397:TYR:HE2	2.07	0.67
1:C:309:LYS:HG2	1:C:685:GLU:HG2	1.75	0.67
1:E:350:LEU:HD21	1:E:395:LEU:HD23	1.76	0.67
1:E:483:TYR:HB3	1:E:521:PRO:HG3	1.75	0.67
1:F:350:LEU:HD21	1:F:395:LEU:HD23	1.76	0.67
1:I:269:ASP:HA	1:I:513:ARG:HB2	1.75	0.67
1:I:303:ASN:HD22	1:I:686:LEU:HB3	1.59	0.67
1:J:277:THR:HG21	1:J:395:LEU:CD1	2.25	0.67
1:K:277:THR:HG21	1:K:395:LEU:CD1	2.25	0.67
1:K:303:ASN:HD22	1:K:686:LEU:HB3	1.59	0.67
1:K:397:TYR:HE2	1:1:692:LYS:CE	2.07	0.67
1:N:692:LYS:CE	1:U:397:TYR:HE2	2.07	0.67
1:P:350:LEU:HD21	1:P:395:LEU:HD23	1.76	0.67
1:Q:269:ASP:HA	1:Q:513:ARG:HB2	1.75	0.67
1:Q:350:LEU:HD21	1:Q:395:LEU:HD23	1.76	0.67
1:R:352:TYR:CE2	1:R:354:LEU:HB2	2.29	0.67
1:S:352:TYR:CE2	1:S:354:LEU:HB2	2.29	0.67
1:U:693:ARG:HH21	1:U:695:ASN:HB3	1.57	0.67
1:X:397:TYR:HE2	1:l:692:LYS:CE	2.07	0.67
1:Y:277:THR:HG21	1:Y:395:LEU:CD1	2.25	0.67
1:a:352:TYR:CE2	1:a:354:LEU:HB2	2.29	0.67
1:c:693:ARG:HH21	1:c:695:ASN:HB3	1.57	0.67
1:g:309:LYS:HG2	1:g:685:GLU:HG2	1.75	0.67
1:j:303:ASN:HD22	1:j:686:LEU:HB3	1.59	0.67
1:o:352:TYR:CE2	1:o:354:LEU:HB2	2.30	0.67
1:q:349:GLN:HE21	1:q:349:GLN:CA	2.04	0.67
1:r:352:TYR:CE2	1:r:354:LEU:HB2	2.29	0.67
1:u:303:ASN:HD22	1:u:686:LEU:HB3	1.59	0.67
1:v:303:ASN:HD22	1:v:686:LEU:HB3	1.60	0.67
1:1:277:THR:HG21	1:1:395:LEU:CD1	2.25	0.67
1:3:352:TYR:CE2	1:3:354:LEU:HB2	2.29	0.67
1:4:303:ASN:HD22	1:4:686:LEU:HB3	1.59	0.67
1:A:352:TYR:CE2	1:A:354:LEU:HB2	2.29	0.67
1:M:352:TYR:CE2	1:M:354:LEU:HB2	2.29	0.67
1:N:303:ASN:HD22	1:N:686:LEU:HB3	1.59	0.67
1:O:269:ASP:HA	1:O:513:ARG:HB2	1.75	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:O:483:TYR:HB3	1:O:521:PRO:HG3	1.75	0.67
1:P:303:ASN:HD22	1:P:686:LEU:HB3	1.60	0.67
1:R:349:GLN:HE21	1:R:349:GLN:CA	2.04	0.67
1:R:523:MET:HA	1:R:523:MET:CE	2.21	0.67
1:W:693:ARG:HH21	1:W:695:ASN:HB3	1.57	0.67
1:X:523:MET:HE2	1:X:523:MET:CA	2.23	0.67
1:a:692:LYS:CE	1:v:397:TYR:HE2	2.07	0.67
1:d:692:LYS:CE	1:y:397:TYR:HE2	2.07	0.67
1:f:303:ASN:HD22	1:f:686:LEU:HB3	1.59	0.67
1:i:269:ASP:HA	1:i:513:ARG:HB2	1.75	0.67
1:i:303:ASN:HD22	1:i:686:LEU:HB3	1.59	0.67
1:i:692:LYS:CE	1:s:397:TYR:HE2	2.07	0.67
1:j:350:LEU:HD21	1:j:395:LEU:HD23	1.76	0.67
1:k:277:THR:HG21	1:k:395:LEU:CD1	2.25	0.67
1:k:397:TYR:HE2	1:m:692:LYS:CE	2.07	0.67
1:l:269:ASP:HA	1:l:513:ARG:HB2	1.75	0.67
1:q:523:MET:HA	1:q:523:MET:CE	2.21	0.67
1:r:303:ASN:HD22	1:r:686:LEU:HB3	1.59	0.67
1:v:352:TYR:CE2	1:v:354:LEU:HB2	2.29	0.67
1:w:483:TYR:HB3	1:w:521:PRO:HG3	1.75	0.67
1:4:277:THR:HG21	1:4:395:LEU:CD1	2.25	0.67
1:5:352:TYR:CE2	1:5:354:LEU:HB2	2.29	0.67
1:5:483:TYR:HB3	1:5:521:PRO:HG3	1.75	0.67
1:7:277:THR:HG21	1:7:395:LEU:CD1	2.25	0.67
1:D:277:THR:HG21	1:D:395:LEU:CD1	2.25	0.67
1:E:269:ASP:HA	1:E:513:ARG:HB2	1.75	0.67
1:E:692:LYS:CE	1:l:397:TYR:HE2	2.07	0.67
1:F:397:TYR:HE2	1:n:692:LYS:CE	2.07	0.67
1:H:352:TYR:CE2	1:H:354:LEU:HB2	2.29	0.67
1:H:483:TYR:HB3	1:H:521:PRO:HG3	1.75	0.67
1:J:397:TYR:HE2	1:P:692:LYS:CE	2.07	0.67
1:K:309:LYS:HG2	1:K:685:GLU:HG2	1.75	0.67
1:M:303:ASN:HD22	1:M:686:LEU:HB3	1.59	0.67
1:N:483:TYR:HB3	1:N:521:PRO:HG3	1.75	0.67
1:O:397:TYR:HE2	1:w:692:LYS:CE	2.07	0.67
1:P:352:TYR:CE2	1:P:354:LEU:HB2	2.29	0.67
1:R:309:LYS:HG2	1:R:685:GLU:HG2	1.75	0.67
1:T:277:THR:HG21	1:T:395:LEU:CD1	2.25	0.67
1:T:350:LEU:HD21	1:T:395:LEU:HD23	1.76	0.67
1:T:352:TYR:CE2	1:T:354:LEU:HB2	2.29	0.67
1:U:350:LEU:HD21	1:U:395:LEU:HD23	1.76	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:b:692:LYS:CE	1:n:397:TYR:HE2	2.07	0.67
1:c:397:TYR:HE2	1:v:692:LYS:CE	2.07	0.67
1:e:693:ARG:HH21	1:e:695:ASN:HB3	1.57	0.67
1:h:303:ASN:HD22	1:h:686:LEU:HB3	1.59	0.67
1:h:352:TYR:CE2	1:h:354:LEU:HB2	2.30	0.67
1:i:483:TYR:HB3	1:i:521:PRO:HG3	1.75	0.67
1:l:483:TYR:HB3	1:l:521:PRO:HG3	1.75	0.67
1:m:277:THR:HG21	1:m:395:LEU:CD1	2.25	0.67
1:m:352:TYR:CE2	1:m:354:LEU:HB2	2.29	0.67
1:p:352:TYR:CE2	1:p:354:LEU:HB2	2.29	0.67
1:q:309:LYS:HG2	1:q:685:GLU:HG2	1.75	0.67
1:q:693:ARG:HH21	1:q:695:ASN:HB3	1.57	0.67
1:t:352:TYR:CE2	1:t:354:LEU:HB2	2.29	0.67
1:u:352:TYR:CE2	1:u:354:LEU:HB2	2.29	0.67
1:x:269:ASP:HA	1:x:513:ARG:HB2	1.75	0.67
1:x:350:LEU:HD21	1:x:395:LEU:HD23	1.76	0.67
1:4:692:LYS:CE	1:6:397:TYR:HE2	2.07	0.67
1:A:397:TYR:HE2	1:3:692:LYS:CE	2.07	0.67
1:C:483:TYR:HB3	1:C:521:PRO:HG3	1.75	0.67
1:D:352:TYR:CE2	1:D:354:LEU:HB2	2.29	0.67
1:D:692:LYS:CE	1:q:397:TYR:HE2	2.08	0.67
1:E:277:THR:HG21	1:E:395:LEU:CD1	2.25	0.67
1:G:352:TYR:CE2	1:G:354:LEU:HB2	2.30	0.67
1:G:692:LYS:CE	1:8:397:TYR:HE2	2.07	0.67
1:K:692:LYS:CE	1:W:397:TYR:HE2	2.08	0.67
1:L:303:ASN:HD22	1:L:686:LEU:HB3	1.59	0.67
1:L:352:TYR:CE2	1:L:354:LEU:HB2	2.29	0.67
1:N:269:ASP:HA	1:N:513:ARG:HB2	1.75	0.67
1:O:352:TYR:CE2	1:O:354:LEU:HB2	2.29	0.67
1:O:692:LYS:CE	1:o:397:TYR:HE2	2.07	0.67
1:P:269:ASP:HA	1:P:513:ARG:HB2	1.75	0.67
1:R:692:LYS:CE	1:m:397:TYR:HE2	2.07	0.67
1:V:352:TYR:CE2	1:V:354:LEU:HB2	2.29	0.67
1:b:303:ASN:HD22	1:b:686:LEU:HB3	1.59	0.67
1:j:269:ASP:HA	1:j:513:ARG:HB2	1.75	0.67
1:j:277:THR:HG21	1:j:395:LEU:CD1	2.25	0.67
1:j:352:TYR:CE2	1:j:354:LEU:HB2	2.29	0.67
1:k:352:TYR:CE2	1:k:354:LEU:HB2	2.29	0.67
1:l:352:TYR:CE2	1:l:354:LEU:HB2	2.29	0.67
1:s:350:LEU:HD21	1:s:395:LEU:HD23	1.76	0.67
1:s:693:ARG:HH21	1:s:695:ASN:HB3	1.57	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:v:277:THR:HG21	1:v:395:LEU:CD1	2.25	0.67
1:w:277:THR:HG21	1:w:395:LEU:CD1	2.25	0.67
1:x:352:TYR:CE2	1:x:354:LEU:HB2	2.29	0.67
1:x:693:ARG:HH21	1:x:695:ASN:HB3	1.57	0.67
1:y:352:TYR:CE2	1:y:354:LEU:HB2	2.29	0.67
1:z:352:TYR:CE2	1:z:354:LEU:HB2	2.29	0.67
1:3:277:THR:HG21	1:3:395:LEU:CD1	2.25	0.67
1:5:350:LEU:HD21	1:5:395:LEU:HD23	1.76	0.67
1:5:523:MET:HE2	1:5:523:MET:CA	2.23	0.67
1:A:277:THR:HG21	1:A:395:LEU:CD1	2.25	0.67
1:C:277:THR:HG21	1:C:395:LEU:CD1	2.25	0.67
1:F:352:TYR:CE2	1:F:354:LEU:HB2	2.29	0.67
1:I:352:TYR:CE2	1:I:354:LEU:HB2	2.29	0.67
1:J:474:SER:HB2	1:p:518:ASN:ND2	2.04	0.67
1:J:692:LYS:CE	1:p:397:TYR:HE2	2.07	0.67
1:P:277:THR:HG21	1:P:395:LEU:CD1	2.25	0.67
1:Q:350:LEU:HD22	1:Q:395:LEU:HD23	1.69	0.67
1:S:303:ASN:HD22	1:S:686:LEU:HB3	1.59	0.67
1:T:350:LEU:HD22	1:T:395:LEU:HD23	1.69	0.67
1:a:277:THR:HG21	1:a:395:LEU:CD1	2.25	0.67
1:b:277:THR:HG21	1:b:395:LEU:CD1	2.25	0.67
1:f:277:THR:HG21	1:f:395:LEU:CD1	2.25	0.67
1:m:350:LEU:HD22	1:m:395:LEU:HD23	1.69	0.67
1:m:523:MET:HE2	1:m:523:MET:CA	2.23	0.67
1:t:523:MET:HA	1:t:523:MET:CE	2.21	0.67
1:y:350:LEU:HD22	1:y:395:LEU:HD23	1.69	0.67
1:z:518:ASN:ND2	1:7:474:SER:HB2	2.04	0.67
1:1:303:ASN:HD22	1:1:686:LEU:HB3	1.59	0.67
1:4:309:LYS:HG2	1:4:685:GLU:HG2	1.75	0.67
1:7:269:ASP:HA	1:7:513:ARG:HB2	1.75	0.67
1:B:303:ASN:HD22	1:B:686:LEU:HB3	1.59	0.67
1:C:350:LEU:HD21	1:C:395:LEU:HD23	1.76	0.67
1:D:523:MET:HA	1:D:523:MET:CE	2.21	0.67
1:E:397:TYR:HE2	1:X:692:LYS:CE	2.07	0.67
1:H:350:LEU:HD21	1:H:395:LEU:HD23	1.76	0.67
1:M:397:TYR:HE2	1:8:692:LYS:CE	2.07	0.67
1:Q:352:TYR:CE2	1:Q:354:LEU:HB2	2.29	0.67
1:Z:397:TYR:HE2	1:t:692:LYS:CE	2.07	0.67
1:Z:692:LYS:CE	1:h:397:TYR:HE2	2.07	0.67
1:c:277:THR:HG21	1:c:395:LEU:CD1	2.25	0.67
1:c:345:ASP:O	1:c:346:SER:HB2	1.92	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:g:277:THR:HG21	1:g:395:LEU:CD1	2.25	0.67
1:g:483:TYR:HB3	1:g:521:PRO:HG3	1.75	0.67
1:t:350:LEU:HD21	1:t:395:LEU:HD23	1.76	0.67
1:z:303:ASN:HD22	1:z:686:LEU:HB3	1.59	0.67
1:4:350:LEU:HD21	1:4:395:LEU:HD23	1.76	0.67
1:8:303:ASN:HD22	1:8:686:LEU:HB3	1.59	0.67
1:A:269:ASP:HA	1:A:513:ARG:HB2	1.75	0.67
1:C:692:LYS:CE	1:5:397:TYR:HE2	2.07	0.67
1:G:397:TYR:HE2	1:M:692:LYS:CE	2.07	0.67
1:H:303:ASN:HD22	1:H:686:LEU:HB3	1.59	0.67
1:H:397:TYR:HE2	1:g:692:LYS:CE	2.07	0.67
1:Q:277:THR:HG21	1:Q:395:LEU:CD1	2.24	0.67
1:Q:693:ARG:HH21	1:Q:695:ASN:HB3	1.57	0.67
1:R:303:ASN:HD22	1:R:686:LEU:HB3	1.59	0.67
1:W:303:ASN:HD22	1:W:686:LEU:HB3	1.59	0.67
1:X:309:LYS:HG2	1:X:685:GLU:HG2	1.75	0.67
1:Z:303:ASN:HD22	1:Z:686:LEU:HB3	1.59	0.67
1:d:397:TYR:HE2	1:f:692:LYS:CE	2.07	0.67
1:e:277:THR:HG21	1:e:395:LEU:CD1	2.25	0.67
1:o:277:THR:HG21	1:o:395:LEU:CD1	2.25	0.67
1:o:303:ASN:HD22	1:o:686:LEU:HB3	1.60	0.67
1:o:523:MET:HE2	1:o:523:MET:CA	2.23	0.67
1:q:303:ASN:HD22	1:q:686:LEU:HB3	1.59	0.67
1:q:483:TYR:HB3	1:q:521:PRO:HG3	1.75	0.67
1:v:269:ASP:HA	1:v:513:ARG:HB2	1.75	0.67
1:v:350:LEU:HD21	1:v:395:LEU:HD23	1.76	0.67
1:w:269:ASP:HA	1:w:513:ARG:HB2	1.75	0.67
1:2:350:LEU:HD21	1:2:395:LEU:HD23	1.76	0.67
1:F:350:LEU:HD22	1:F:395:LEU:HD23	1.69	0.67
1:G:350:LEU:HD21	1:G:395:LEU:HD23	1.76	0.67
1:K:350:LEU:HD21	1:K:395:LEU:HD23	1.76	0.67
1:R:483:TYR:HB3	1:R:521:PRO:HG3	1.75	0.67
1:W:277:THR:HG21	1:W:395:LEU:CD1	2.25	0.67
1:W:352:TYR:CE2	1:W:354:LEU:HB2	2.29	0.67
1:X:277:THR:HG21	1:X:395:LEU:CD1	2.25	0.67
1:X:303:ASN:HD22	1:X:686:LEU:HB3	1.59	0.67
1:Y:269:ASP:HA	1:Y:513:ARG:HB2	1.75	0.67
1:c:269:ASP:HA	1:c:513:ARG:HB2	1.75	0.67
1:e:345:ASP:O	1:e:346:SER:HB2	1.92	0.67
1:f:397:TYR:HE2	1:y:692:LYS:CE	2.07	0.67
1:n:350:LEU:HD21	1:n:395:LEU:HD23	1.76	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:x:350:LEU:HD22	1:x:395:LEU:HD23	1.69	0.67
1:5:277:THR:HG21	1:5:395:LEU:CD1	2.25	0.67
1:6:352:TYR:CE2	1:6:354:LEU:HB2	2.29	0.67
1:8:352:TYR:CE2	1:8:354:LEU:HB2	2.30	0.67
1:F:692:LYS:CE	1:b:397:TYR:HE2	2.07	0.67
1:G:523:MET:HA	1:G:523:MET:CE	2.21	0.67
1:I:350:LEU:HD21	1:I:395:LEU:HD23	1.76	0.67
1:K:269:ASP:HA	1:K:513:ARG:HB2	1.75	0.67
1:K:352:TYR:CE2	1:K:354:LEU:HB2	2.29	0.67
1:L:350:LEU:HD21	1:L:395:LEU:HD23	1.76	0.67
1:L:692:LYS:CE	1:Q:397:TYR:HE2	2.07	0.67
1:N:350:LEU:HD21	1:N:395:LEU:HD23	1.76	0.67
1:Z:352:TYR:CE2	1:Z:354:LEU:HB2	2.30	0.67
1:a:483:TYR:HB3	1:a:521:PRO:HG3	1.75	0.67
1:b:350:LEU:HD21	1:b:395:LEU:HD23	1.76	0.67
1:e:269:ASP:HA	1:e:513:ARG:HB2	1.75	0.67
1:g:350:LEU:HD21	1:g:395:LEU:HD23	1.76	0.67
1:h:692:LYS:CE	1:t:397:TYR:HE2	2.07	0.67
1:k:523:MET:HA	1:k:523:MET:CE	2.21	0.67
1:n:483:TYR:HB3	1:n:521:PRO:HG3	1.75	0.67
1:o:692:LYS:CE	1:w:397:TYR:HE2	2.07	0.67
1:y:277:THR:HG21	1:y:395:LEU:CD1	2.25	0.67
1:6:277:THR:HG21	1:6:395:LEU:CD1	2.25	0.67
1:7:352:TYR:CE2	1:7:354:LEU:HB2	2.29	0.67
1:A:350:LEU:HD21	1:A:395:LEU:HD23	1.76	0.67
1:H:277:THR:HG21	1:H:395:LEU:CD1	2.25	0.67
1:H:523:MET:HA	1:H:523:MET:CE	2.21	0.67
1:I:610:ASP:HB2	1:I:728:THR:HG22	1.77	0.67
1:Q:474:SER:HB2	1:Y:518:ASN:ND2	2.04	0.67
1:Y:610:ASP:HB2	1:Y:728:THR:HG22	1.77	0.67
1:a:523:MET:HA	1:a:523:MET:CE	2.21	0.67
1:d:350:LEU:HD21	1:d:395:LEU:HD23	1.76	0.67
1:f:350:LEU:HD21	1:f:395:LEU:HD23	1.76	0.67
1:n:277:THR:HG21	1:n:395:LEU:CD1	2.24	0.67
1:o:309:LYS:HG2	1:o:685:GLU:HG2	1.75	0.67
1:p:277:THR:HG21	1:p:395:LEU:CD1	2.24	0.67
1:x:277:THR:HG21	1:x:395:LEU:CD1	2.25	0.67
1:2:352:TYR:CE2	1:2:354:LEU:HB2	2.29	0.67
1:3:610:ASP:HB2	1:3:728:THR:HG22	1.77	0.67
1:5:303:ASN:HD22	1:5:686:LEU:HB3	1.60	0.67
1:6:303:ASN:HD22	1:6:686:LEU:HB3	1.60	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:277:THR:HG21	1:F:395:LEU:CD1	2.25	0.66
1:J:350:LEU:HD21	1:J:395:LEU:HD23	1.76	0.66
1:K:610:ASP:HB2	1:K:728:THR:HG22	1.78	0.66
1:O:277:THR:HG21	1:O:395:LEU:CD1	2.25	0.66
1:R:523:MET:HE2	1:R:523:MET:CA	2.23	0.66
1:T:397:TYR:HE2	1:q:692:LYS:CE	2.08	0.66
1:V:518:ASN:ND2	1:2:474:SER:HB2	2.04	0.66
1:V:523:MET:HA	1:V:523:MET:CE	2.21	0.66
1:Y:303:ASN:HD22	1:Y:686:LEU:HB3	1.59	0.66
1:Y:352:TYR:CE2	1:Y:354:LEU:HB2	2.29	0.66
1:a:610:ASP:HB2	1:a:728:THR:HG22	1.78	0.66
1:d:483:TYR:HB3	1:d:521:PRO:HG3	1.75	0.66
1:g:350:LEU:HD22	1:g:395:LEU:HD23	1.69	0.66
1:i:350:LEU:HD21	1:i:395:LEU:HD23	1.76	0.66
1:t:277:THR:HG21	1:t:395:LEU:CD1	2.25	0.66
1:x:397:TYR:HE2	1:z:692:LYS:CE	2.07	0.66
1:y:523:MET:HA	1:y:523:MET:CE	2.21	0.66
1:2:303:ASN:HD22	1:2:686:LEU:HB3	1.59	0.66
1:3:309:LYS:HG2	1:3:685:GLU:HG2	1.75	0.66
1:3:483:TYR:HB3	1:3:521:PRO:HG3	1.75	0.66
1:3:523:MET:HE2	1:3:523:MET:CA	2.23	0.66
1:4:269:ASP:HA	1:4:513:ARG:HB2	1.75	0.66
1:4:352:TYR:CE2	1:4:354:LEU:HB2	2.29	0.66
1:4:610:ASP:HB2	1:4:728:THR:HG22	1.77	0.66
1:7:610:ASP:HB2	1:7:728:THR:HG22	1.78	0.66
1:F:269:ASP:HA	1:F:513:ARG:HB2	1.75	0.66
1:G:277:THR:HG21	1:G:395:LEU:CD1	2.25	0.66
1:I:277:THR:HG21	1:I:395:LEU:CD1	2.24	0.66
1:I:397:TYR:HE2	1:U:692:LYS:CE	2.07	0.66
1:J:352:TYR:CE2	1:J:354:LEU:HB2	2.29	0.66
1:P:397:TYR:HE2	1:p:692:LYS:CE	2.07	0.66
1:R:350:LEU:HD21	1:R:395:LEU:HD23	1.76	0.66
1:V:277:THR:HG21	1:V:395:LEU:CD1	2.25	0.66
1:Z:350:LEU:HD21	1:Z:395:LEU:HD23	1.76	0.66
1:a:309:LYS:HG2	1:a:685:GLU:HG2	1.75	0.66
1:a:350:LEU:HD21	1:a:395:LEU:HD23	1.76	0.66
1:a:523:MET:HE2	1:a:523:MET:CA	2.23	0.66
1:d:277:THR:HG21	1:d:395:LEU:CD1	2.25	0.66
1:i:352:TYR:CE2	1:i:354:LEU:HB2	2.29	0.66
1:q:523:MET:HE2	1:q:523:MET:CA	2.23	0.66
1:u:350:LEU:HD21	1:u:395:LEU:HD23	1.76	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:u:610:ASP:HB2	1:u:728:THR:HG22	1.78	0.66
1:w:303:ASN:HD22	1:w:686:LEU:HB3	1.59	0.66
1:w:352:TYR:CE2	1:w:354:LEU:HB2	2.30	0.66
1:x:474:SER:HB2	1:7:518:ASN:ND2	2.04	0.66
1:z:350:LEU:HD21	1:z:395:LEU:HD23	1.76	0.66
1:8:350:LEU:HD21	1:8:395:LEU:HD23	1.76	0.66
1:E:352:TYR:CE2	1:E:354:LEU:HB2	2.29	0.66
1:F:523:MET:HA	1:F:523:MET:CE	2.21	0.66
1:G:303:ASN:HD22	1:G:686:LEU:HB3	1.59	0.66
1:H:610:ASP:HB2	1:H:728:THR:HG22	1.77	0.66
1:M:277:THR:HG21	1:M:395:LEU:CD1	2.25	0.66
1:V:692:LYS:CE	1:j:397:TYR:HE2	2.07	0.66
1:Z:349:GLN:HE21	1:Z:349:GLN:CA	2.04	0.66
1:a:397:TYR:HE2	1:c:692:LYS:CE	2.07	0.66
1:h:277:THR:HG21	1:h:395:LEU:CD1	2.25	0.66
1:l:277:THR:HG21	1:l:395:LEU:CD1	2.25	0.66
1:p:523:MET:HA	1:p:523:MET:CE	2.21	0.66
1:r:350:LEU:HD21	1:r:395:LEU:HD23	1.76	0.66
1:s:692:LYS:CE	1:u:397:TYR:HE2	2.07	0.66
1:t:303:ASN:HD22	1:t:686:LEU:HB3	1.59	0.66
1:3:350:LEU:HD21	1:3:395:LEU:HD23	1.76	0.66
1:5:523:MET:HA	1:5:523:MET:CE	2.21	0.66
1:7:303:ASN:HD22	1:7:686:LEU:HB3	1.59	0.66
1:8:349:GLN:HE21	1:8:349:GLN:CA	2.04	0.66
1:C:352:TYR:CE2	1:C:354:LEU:HB2	2.29	0.66
1:E:303:ASN:HD22	1:E:686:LEU:HB3	1.59	0.66
1:J:303:ASN:HD22	1:J:686:LEU:HB3	1.60	0.66
1:N:352:TYR:CE2	1:N:354:LEU:HB2	2.29	0.66
1:W:610:ASP:HB2	1:W:728:THR:HG22	1.77	0.66
1:c:303:ASN:HD22	1:c:686:LEU:HB3	1.59	0.66
1:e:303:ASN:HD22	1:e:686:LEU:HB3	1.59	0.66
1:e:692:LYS:CE	1:3:397:TYR:HE2	2.07	0.66
1:g:352:TYR:CE2	1:g:354:LEU:HB2	2.29	0.66
1:l:610:ASP:HB2	1:l:728:THR:HG22	1.78	0.66
1:r:269:ASP:HA	1:r:513:ARG:HB2	1.75	0.66
1:s:277:THR:HG21	1:s:395:LEU:CD1	2.25	0.66
1:u:277:THR:HG21	1:u:395:LEU:CD1	2.25	0.66
1:1:350:LEU:HD22	1:1:395:LEU:HD23	1.69	0.66
1:5:610:ASP:HB2	1:5:728:THR:HG22	1.78	0.66
1:B:350:LEU:HD22	1:B:395:LEU:HD23	1.69	0.66
1:B:352:TYR:CE2	1:B:354:LEU:HB2	2.29	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:303:ASN:HD22	1:D:686:LEU:HB3	1.59	0.66
1:F:303:ASN:HD22	1:F:686:LEU:HB3	1.59	0.66
1:P:610:ASP:HB2	1:P:728:THR:HG22	1.78	0.66
1:Q:610:ASP:HB2	1:Q:728:THR:HG22	1.77	0.66
1:T:486:GLN:HG2	1:q:584:GLN:HE22	1.60	0.66
1:Z:277:THR:HG21	1:Z:395:LEU:CD1	2.25	0.66
1:e:352:TYR:CE2	1:e:354:LEU:HB2	2.29	0.66
1:i:397:TYR:HE2	1:u:692:LYS:CE	2.08	0.66
1:j:610:ASP:HB2	1:j:728:THR:HG22	1.78	0.66
1:q:277:THR:HG21	1:q:395:LEU:CD1	2.25	0.66
1:y:269:ASP:HA	1:y:513:ARG:HB2	1.75	0.66
1:y:303:ASN:HD22	1:y:686:LEU:HB3	1.59	0.66
1:1:352:TYR:CE2	1:1:354:LEU:HB2	2.29	0.66
1:6:610:ASP:HB2	1:6:728:THR:HG22	1.78	0.66
1:8:277:THR:HG21	1:8:395:LEU:CD1	2.25	0.66
1:D:610:ASP:HB2	1:D:728:THR:HG22	1.78	0.66
1:F:523:MET:HE2	1:F:523:MET:CA	2.23	0.66
1:I:692:LYS:CE	1:N:397:TYR:HE2	2.07	0.66
1:L:277:THR:HG21	1:L:395:LEU:CD1	2.25	0.66
1:O:303:ASN:HD22	1:O:686:LEU:HB3	1.59	0.66
1:O:610:ASP:HB2	1:O:728:THR:HG22	1.78	0.66
1:R:474:SER:HB2	1:m:518:ASN:ND2	2.04	0.66
1:S:350:LEU:HD21	1:S:395:LEU:HD23	1.76	0.66
1:U:277:THR:HG21	1:U:395:LEU:CD1	2.25	0.66
1:Y:350:LEU:HD21	1:Y:395:LEU:HD23	1.76	0.66
1:e:350:LEU:HD21	1:e:395:LEU:HD23	1.76	0.66
1:k:610:ASP:HB2	1:k:728:THR:HG22	1.77	0.66
1:n:352:TYR:CE2	1:n:354:LEU:HB2	2.29	0.66
1:o:610:ASP:HB2	1:o:728:THR:HG22	1.78	0.66
1:q:350:LEU:HD21	1:q:395:LEU:HD23	1.76	0.66
1:r:518:ASN:ND2	1:5:474:SER:HB2	2.04	0.66
1:x:610:ASP:HB2	1:x:728:THR:HG22	1.78	0.66
1:z:610:ASP:HB2	1:z:728:THR:HG22	1.78	0.66
1:B:397:TYR:HE2	1:6:692:LYS:CE	2.07	0.66
1:L:610:ASP:HB2	1:L:728:THR:HG22	1.77	0.66
1:R:277:THR:HG21	1:R:395:LEU:CD1	2.25	0.66
1:S:269:ASP:HA	1:S:513:ARG:HB2	1.75	0.66
1:V:610:ASP:HB2	1:V:728:THR:HG22	1.78	0.66
1:X:610:ASP:HB2	1:X:728:THR:HG22	1.78	0.66
1:c:352:TYR:CE2	1:c:354:LEU:HB2	2.29	0.66
1:f:518:ASN:ND2	1:y:474:SER:HB2	2.04	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:h:610:ASP:HB2	1:h:728:THR:HG22	1.77	0.66
1:k:303:ASN:HD22	1:k:686:LEU:HB3	1.59	0.66
1:n:303:ASN:HD22	1:n:686:LEU:HB3	1.59	0.66
1:p:610:ASP:HB2	1:p:728:THR:HG22	1.78	0.66
1:x:303:ASN:HD22	1:x:686:LEU:HB3	1.59	0.66
1:z:277:THR:HG21	1:z:395:LEU:CD1	2.24	0.66
1:7:350:LEU:HD21	1:7:395:LEU:HD23	1.76	0.66
1:N:277:THR:HG21	1:N:395:LEU:CD1	2.25	0.66
1:O:523:MET:HA	1:O:523:MET:CE	2.21	0.66
1:U:277:THR:HG22	1:U:279:TRP:H	1.61	0.66
1:Z:610:ASP:HB2	1:Z:728:THR:HG22	1.78	0.66
1:b:610:ASP:HB2	1:b:728:THR:HG22	1.78	0.66
1:c:350:LEU:HD21	1:c:395:LEU:HD23	1.76	0.66
1:d:352:TYR:CE2	1:d:354:LEU:HB2	2.29	0.66
1:i:277:THR:HG21	1:i:395:LEU:CD1	2.25	0.66
1:p:277:THR:HG22	1:p:279:TRP:H	1.61	0.66
1:v:610:ASP:HB2	1:v:728:THR:HG22	1.78	0.66
1:F:474:SER:HB2	1:b:518:ASN:ND2	2.04	0.66
1:H:277:THR:HG22	1:H:279:TRP:H	1.61	0.66
1:L:523:MET:HE2	1:L:523:MET:CA	2.23	0.66
1:M:610:ASP:HB2	1:M:728:THR:HG22	1.78	0.66
1:N:610:ASP:HB2	1:N:728:THR:HG22	1.77	0.66
1:S:277:THR:HG21	1:S:395:LEU:CD1	2.25	0.66
1:T:610:ASP:HB2	1:T:728:THR:HG22	1.77	0.66
1:V:277:THR:HG22	1:V:279:TRP:H	1.61	0.66
1:W:692:LYS:CE	1:1:397:TYR:HE2	2.07	0.66
1:a:277:THR:HG22	1:a:279:TRP:H	1.61	0.66
1:b:277:THR:HG22	1:b:279:TRP:H	1.61	0.66
1:d:303:ASN:HD22	1:d:686:LEU:HB3	1.59	0.66
1:d:610:ASP:HB2	1:d:728:THR:HG22	1.77	0.66
1:f:277:THR:HG22	1:f:279:TRP:H	1.61	0.66
1:f:610:ASP:HB2	1:f:728:THR:HG22	1.77	0.66
1:i:610:ASP:HB2	1:i:728:THR:HG22	1.78	0.66
1:l:303:ASN:HD22	1:l:686:LEU:HB3	1.59	0.66
1:p:303:ASN:HD22	1:p:686:LEU:HB3	1.59	0.66
1:s:277:THR:HG22	1:s:279:TRP:H	1.61	0.66
1:y:523:MET:HE2	1:y:523:MET:CA	2.23	0.66
1:3:277:THR:HG22	1:3:279:TRP:H	1.61	0.66
1:8:610:ASP:HB2	1:8:728:THR:HG22	1.78	0.66
1:A:610:ASP:HB2	1:A:728:THR:HG22	1.78	0.66
1:F:277:THR:HG22	1:F:279:TRP:H	1.61	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:474:SER:HB2	1:S:518:ASN:ND2	2.05	0.66
1:Q:303:ASN:HD22	1:Q:686:LEU:HB3	1.59	0.66
1:n:610:ASP:HB2	1:n:728:THR:HG22	1.78	0.66
1:q:610:ASP:HB2	1:q:728:THR:HG22	1.78	0.66
1:r:277:THR:HG21	1:r:395:LEU:CD1	2.25	0.66
1:y:277:THR:HG22	1:y:279:TRP:H	1.61	0.66
1:5:277:THR:HG22	1:5:279:TRP:H	1.61	0.66
1:C:610:ASP:HB2	1:C:728:THR:HG22	1.78	0.65
1:V:303:ASN:HD22	1:V:686:LEU:HB3	1.59	0.65
1:g:610:ASP:HB2	1:g:728:THR:HG22	1.78	0.65
1:l:523:MET:HA	1:l:523:MET:CE	2.21	0.65
1:m:610:ASP:HB2	1:m:728:THR:HG22	1.78	0.65
1:3:303:ASN:HD22	1:3:686:LEU:HB3	1.59	0.65
1:4:277:THR:HG22	1:4:279:TRP:H	1.61	0.65
1:B:523:MET:HA	1:B:523:MET:CE	2.21	0.65
1:C:397:TYR:CE2	1:r:692:LYS:HE3	2.31	0.65
1:K:277:THR:HG22	1:K:279:TRP:H	1.61	0.65
1:Q:523:MET:HE2	1:Q:523:MET:CA	2.23	0.65
1:Q:692:LYS:CE	1:Y:397:TYR:HE2	2.07	0.65
1:R:610:ASP:HB2	1:R:728:THR:HG22	1.78	0.65
1:T:518:ASN:ND2	1:q:474:SER:HB2	2.06	0.65
1:X:277:THR:HG22	1:X:279:TRP:H	1.61	0.65
1:g:303:ASN:HD22	1:g:686:LEU:HB3	1.59	0.65
1:o:277:THR:HG22	1:o:279:TRP:H	1.61	0.65
1:w:610:ASP:HB2	1:w:728:THR:HG22	1.78	0.65
1:8:277:THR:HG22	1:8:279:TRP:H	1.61	0.65
1:C:303:ASN:HD22	1:C:686:LEU:HB3	1.59	0.65
1:E:610:ASP:HB2	1:E:728:THR:HG22	1.78	0.65
1:K:584:GLN:HE22	1:W:486:GLN:HG2	1.62	0.65
1:O:584:GLN:HE22	1:o:486:GLN:HG2	1.62	0.65
1:P:277:THR:HG22	1:P:279:TRP:H	1.61	0.65
1:P:486:GLN:HG2	1:p:584:GLN:HE22	1.62	0.65
1:W:584:GLN:HE22	1:1:486:GLN:HG2	1.62	0.65
1:X:486:GLN:HG2	1:l:584:GLN:HE22	1.62	0.65
1:Z:277:THR:HG22	1:Z:279:TRP:H	1.61	0.65
1:e:584:GLN:HE22	1:3:486:GLN:HG2	1.62	0.65
1:y:610:ASP:HB2	1:y:728:THR:HG22	1.78	0.65
1:z:523:MET:HE2	1:z:523:MET:CA	2.23	0.65
1:A:277:THR:HG22	1:A:279:TRP:H	1.61	0.65
1:B:277:THR:HG22	1:B:279:TRP:H	1.61	0.65
1:G:610:ASP:HB2	1:G:728:THR:HG22	1.77	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:610:ASP:HB2	1:J:728:THR:HG22	1.78	0.65
1:N:523:MET:HE2	1:N:523:MET:CA	2.23	0.65
1:V:584:GLN:HE22	1:j:486:GLN:HG2	1.62	0.65
1:a:303:ASN:HD22	1:a:686:LEU:HB3	1.59	0.65
1:f:523:MET:HA	1:f:523:MET:CE	2.21	0.65
1:h:474:SER:HB2	1:t:518:ASN:ND2	2.04	0.65
1:t:610:ASP:HB2	1:t:728:THR:HG22	1.78	0.65
1:4:584:GLN:HE22	1:6:486:GLN:HG2	1.62	0.65
1:B:486:GLN:HG2	1:6:584:GLN:HE22	1.62	0.65
1:F:486:GLN:HG2	1:n:584:GLN:HE22	1.62	0.65
1:F:610:ASP:HB2	1:F:728:THR:HG22	1.78	0.65
1:L:584:GLN:HE22	1:Q:486:GLN:HG2	1.62	0.65
1:O:350:LEU:HD21	1:O:395:LEU:HD23	1.76	0.65
1:R:486:GLN:HG2	1:k:584:GLN:HE22	1.62	0.65
1:a:486:GLN:HG2	1:c:584:GLN:HE22	1.62	0.65
1:d:584:GLN:HE22	1:y:486:GLN:HG2	1.62	0.65
1:j:277:THR:HG22	1:j:279:TRP:H	1.61	0.65
1:o:584:GLN:HE22	1:w:486:GLN:HG2	1.62	0.65
1:t:277:THR:HG22	1:t:279:TRP:H	1.61	0.65
1:v:277:THR:HG22	1:v:279:TRP:H	1.61	0.65
1:x:523:MET:HE2	1:x:523:MET:CA	2.23	0.65
1:x:692:LYS:CE	1:7:397:TYR:HE2	2.08	0.65
1:z:486:GLN:HG2	1:7:584:GLN:HE22	1.62	0.65
1:1:277:THR:HG22	1:1:279:TRP:H	1.61	0.65
1:6:523:MET:HA	1:6:523:MET:CE	2.21	0.65
1:B:584:GLN:HE22	1:4:486:GLN:HG2	1.62	0.65
1:C:486:GLN:HG2	1:r:584:GLN:HE22	1.62	0.65
1:E:486:GLN:HG2	1:X:584:GLN:HE22	1.62	0.65
1:G:277:THR:HG22	1:G:279:TRP:H	1.61	0.65
1:G:496:ASN:OD1	1:G:497:ASN:N	2.30	0.65
1:K:486:GLN:HG2	1:1:584:GLN:HE22	1.62	0.65
1:T:496:ASN:OD1	1:T:497:ASN:N	2.30	0.65
1:X:496:ASN:OD1	1:X:497:ASN:N	2.30	0.65
1:l:350:LEU:HD21	1:l:395:LEU:HD23	1.76	0.65
1:o:496:ASN:OD1	1:o:497:ASN:N	2.30	0.65
1:r:277:THR:HG22	1:r:279:TRP:H	1.61	0.65
1:x:486:GLN:HG2	1:z:584:GLN:HE22	1.62	0.65
1:1:610:ASP:HB2	1:1:728:THR:HG22	1.78	0.65
1:C:350:LEU:HD22	1:C:395:LEU:HD23	1.69	0.65
1:J:277:THR:HG22	1:J:279:TRP:H	1.61	0.65
1:K:518:ASN:ND2	1:1:474:SER:HB2	2.04	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:486:GLN:HG2	1:Y:584:GLN:HE22	1.62	0.65
1:L:496:ASN:OD1	1:L:497:ASN:N	2.30	0.65
1:O:277:THR:HG22	1:O:279:TRP:H	1.61	0.65
1:S:277:THR:HG22	1:S:279:TRP:H	1.61	0.65
1:S:523:MET:HE2	1:S:523:MET:CA	2.23	0.65
1:V:350:LEU:HD21	1:V:395:LEU:HD23	1.76	0.65
1:b:349:GLN:HE21	1:b:349:GLN:CA	2.04	0.65
1:k:277:THR:HG22	1:k:279:TRP:H	1.61	0.65
1:m:496:ASN:OD1	1:m:497:ASN:N	2.30	0.65
1:t:496:ASN:OD1	1:t:497:ASN:N	2.30	0.65
1:2:277:THR:HG22	1:2:279:TRP:H	1.61	0.65
1:2:496:ASN:OD1	1:2:497:ASN:N	2.30	0.65
1:2:610:ASP:HB2	1:2:728:THR:HG22	1.78	0.65
1:H:584:GLN:HE22	1:S:486:GLN:HG2	1.61	0.65
1:J:496:ASN:OD1	1:J:497:ASN:N	2.30	0.65
1:N:496:ASN:OD1	1:N:497:ASN:N	2.30	0.65
1:Q:584:GLN:HE22	1:Y:486:GLN:HG2	1.62	0.65
1:R:277:THR:HG22	1:R:279:TRP:H	1.61	0.65
1:S:584:GLN:HE22	1:g:486:GLN:HG2	1.62	0.65
1:W:523:MET:HA	1:W:523:MET:CE	2.21	0.65
1:c:610:ASP:HB2	1:c:728:THR:HG22	1.77	0.65
1:f:349:GLN:HE21	1:f:349:GLN:CA	2.04	0.65
1:i:496:ASN:OD1	1:i:497:ASN:N	2.30	0.65
1:i:523:MET:HE2	1:i:523:MET:CA	2.23	0.65
1:r:397:TYR:CE2	1:5:692:LYS:HE3	2.31	0.65
1:z:496:ASN:OD1	1:z:497:ASN:N	2.30	0.65
1:1:496:ASN:OD1	1:1:497:ASN:N	2.30	0.65
1:A:584:GLN:HE22	1:e:486:GLN:HG2	1.62	0.65
1:B:496:ASN:OD1	1:B:497:ASN:N	2.30	0.65
1:B:610:ASP:HB2	1:B:728:THR:HG22	1.77	0.65
1:D:277:THR:HG22	1:D:279:TRP:H	1.61	0.65
1:G:518:ASN:ND2	1:M:474:SER:HB2	2.04	0.65
1:I:277:THR:HG22	1:I:279:TRP:H	1.61	0.65
1:P:496:ASN:OD1	1:P:497:ASN:N	2.30	0.65
1:S:496:ASN:OD1	1:S:497:ASN:N	2.30	0.65
1:V:496:ASN:OD1	1:V:497:ASN:N	2.30	0.65
1:W:277:THR:HG22	1:W:279:TRP:H	1.61	0.65
1:Z:584:GLN:HE22	1:h:486:GLN:HG2	1.62	0.65
1:b:349:GLN:HA	1:b:349:GLN:NE2	2.10	0.65
1:b:523:MET:HA	1:b:523:MET:CE	2.21	0.65
1:d:496:ASN:OD1	1:d:497:ASN:N	2.30	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:e:496:ASN:OD1	1:e:497:ASN:N	2.30	0.65
1:g:277:THR:HG22	1:g:279:TRP:H	1.61	0.65
1:l:277:THR:HG22	1:l:279:TRP:H	1.61	0.65
1:n:496:ASN:OD1	1:n:497:ASN:N	2.30	0.65
1:p:350:LEU:HD21	1:p:395:LEU:HD23	1.76	0.65
1:p:496:ASN:OD1	1:p:497:ASN:N	2.30	0.65
1:q:277:THR:HG22	1:q:279:TRP:H	1.61	0.65
1:u:277:THR:HG22	1:u:279:TRP:H	1.61	0.65
1:A:523:MET:HE2	1:A:523:MET:CA	2.23	0.65
1:C:584:GLN:HE22	1:5:486:GLN:HG2	1.62	0.65
1:F:584:GLN:HE22	1:b:486:GLN:HG2	1.62	0.65
1:J:486:GLN:HG2	1:P:584:GLN:HE22	1.61	0.65
1:K:349:GLN:HA	1:K:349:GLN:NE2	2.11	0.65
1:L:277:THR:HG22	1:L:279:TRP:H	1.61	0.65
1:M:486:GLN:HG2	1:8:584:GLN:HE22	1.62	0.65
1:Q:277:THR:HG22	1:Q:279:TRP:H	1.61	0.65
1:c:496:ASN:OD1	1:c:497:ASN:N	2.30	0.65
1:f:349:GLN:HA	1:f:349:GLN:NE2	2.11	0.65
1:f:486:GLN:HG2	1:y:584:GLN:HE22	1.62	0.65
1:h:496:ASN:OD1	1:h:497:ASN:N	2.30	0.65
1:j:496:ASN:OD1	1:j:497:ASN:N	2.30	0.65
1:r:496:ASN:OD1	1:r:497:ASN:N	2.30	0.65
1:w:277:THR:HG22	1:w:279:TRP:H	1.61	0.65
1:x:277:THR:HG22	1:x:279:TRP:H	1.61	0.65
1:x:584:GLN:HE22	1:7:486:GLN:HG2	1.62	0.65
1:B:474:SER:HB2	1:4:518:ASN:ND2	2.04	0.64
1:C:277:THR:HG22	1:C:279:TRP:H	1.61	0.64
1:H:486:GLN:HG2	1:g:584:GLN:HE22	1.62	0.64
1:M:496:ASN:OD1	1:M:497:ASN:N	2.30	0.64
1:Q:496:ASN:OD1	1:Q:497:ASN:N	2.30	0.64
1:R:397:TYR:CE2	1:k:692:LYS:HE3	2.33	0.64
1:R:584:GLN:HE22	1:m:486:GLN:HG2	1.62	0.64
1:S:692:LYS:HE3	1:g:397:TYR:CE2	2.31	0.64
1:c:277:THR:HG22	1:c:279:TRP:H	1.61	0.64
1:c:486:GLN:HG2	1:v:584:GLN:HE22	1.62	0.64
1:e:610:ASP:HB2	1:e:728:THR:HG22	1.78	0.64
1:f:496:ASN:OD1	1:f:497:ASN:N	2.30	0.64
1:n:277:THR:HG22	1:n:279:TRP:H	1.61	0.64
1:r:486:GLN:HG2	1:5:584:GLN:HE22	1.62	0.64
1:r:523:MET:HE2	1:r:523:MET:CA	2.23	0.64
1:C:496:ASN:OD1	1:C:497:ASN:N	2.30	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:496:ASN:OD1	1:E:497:ASN:N	2.30	0.64
1:U:496:ASN:OD1	1:U:497:ASN:N	2.30	0.64
1:U:523:MET:HE2	1:U:523:MET:CA	2.23	0.64
1:V:486:GLN:HG2	1:2:584:GLN:HE22	1.62	0.64
1:X:397:TYR:CE2	1:l:692:LYS:HE3	2.33	0.64
1:b:496:ASN:OD1	1:b:497:ASN:N	2.30	0.64
1:d:486:GLN:HG2	1:f:584:GLN:HE22	1.62	0.64
1:s:496:ASN:OD1	1:s:497:ASN:N	2.30	0.64
1:u:496:ASN:OD1	1:u:497:ASN:N	2.30	0.64
1:x:496:ASN:OD1	1:x:497:ASN:N	2.30	0.64
1:y:496:ASN:OD1	1:y:497:ASN:N	2.30	0.64
1:4:349:GLN:HA	1:4:349:GLN:NE2	2.11	0.64
1:6:277:THR:HG22	1:6:279:TRP:H	1.61	0.64
1:E:277:THR:HG22	1:E:279:TRP:H	1.61	0.64
1:F:496:ASN:OD1	1:F:497:ASN:N	2.30	0.64
1:M:349:GLN:HA	1:M:349:GLN:NE2	2.10	0.64
1:T:277:THR:HG22	1:T:279:TRP:H	1.61	0.64
1:W:349:GLN:HA	1:W:349:GLN:NE2	2.10	0.64
1:W:496:ASN:OD1	1:W:497:ASN:N	2.30	0.64
1:Y:496:ASN:OD1	1:Y:497:ASN:N	2.30	0.64
1:d:277:THR:HG22	1:d:279:TRP:H	1.61	0.64
1:e:277:THR:HG22	1:e:279:TRP:H	1.61	0.64
1:g:349:GLN:HA	1:g:349:GLN:NE2	2.11	0.64
1:l:523:MET:HE2	1:l:523:MET:CA	2.23	0.64
1:v:523:MET:HE2	1:v:523:MET:CA	2.23	0.64
1:w:496:ASN:OD1	1:w:497:ASN:N	2.30	0.64
1:z:277:THR:HG22	1:z:279:TRP:H	1.61	0.64
1:6:349:GLN:HA	1:6:349:GLN:NE2	2.10	0.64
1:6:496:ASN:OD1	1:6:497:ASN:N	2.30	0.64
1:7:496:ASN:OD1	1:7:497:ASN:N	2.30	0.64
1:8:496:ASN:OD1	1:8:497:ASN:N	2.30	0.64
1:C:349:GLN:HA	1:C:349:GLN:NE2	2.11	0.64
1:H:692:LYS:HE3	1:S:397:TYR:CE2	2.32	0.64
1:J:584:GLN:HE22	1:p:486:GLN:HG2	1.62	0.64
1:M:397:TYR:CE2	1:8:692:LYS:HE3	2.33	0.64
1:U:349:GLN:HA	1:U:349:GLN:NE2	2.11	0.64
1:Z:692:LYS:HE3	1:h:397:TYR:CE2	2.33	0.64
1:g:496:ASN:OD1	1:g:497:ASN:N	2.30	0.64
1:m:277:THR:HG22	1:m:279:TRP:H	1.61	0.64
1:s:692:LYS:HE3	1:u:397:TYR:CE2	2.33	0.64
1:H:496:ASN:OD1	1:H:497:ASN:N	2.30	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:397:TYR:CE2	1:U:692:LYS:HE3	2.33	0.64
1:I:496:ASN:OD1	1:I:497:ASN:N	2.30	0.64
1:I:523:MET:HE2	1:I:523:MET:CA	2.23	0.64
1:L:397:TYR:CE2	1:Y:692:LYS:HE3	2.32	0.64
1:S:610:ASP:HB2	1:S:728:THR:HG22	1.77	0.64
1:Y:277:THR:HG22	1:Y:279:TRP:H	1.61	0.64
1:Z:496:ASN:OD1	1:Z:497:ASN:N	2.30	0.64
1:a:584:GLN:HE22	1:v:486:GLN:HG2	1.62	0.64
1:b:584:GLN:HE22	1:n:486:GLN:HG2	1.62	0.64
1:h:349:GLN:HA	1:h:349:GLN:NE2	2.10	0.64
1:j:692:LYS:HE3	1:2:397:TYR:CE2	2.32	0.64
1:s:349:GLN:HA	1:s:349:GLN:NE2	2.11	0.64
1:5:496:ASN:OD1	1:5:497:ASN:N	2.30	0.64
1:E:397:TYR:CE2	1:X:692:LYS:HE3	2.33	0.64
1:K:496:ASN:OD1	1:K:497:ASN:N	2.30	0.64
1:N:584:GLN:HE22	1:U:486:GLN:HG2	1.62	0.64
1:O:523:MET:HE2	1:O:523:MET:CA	2.23	0.64
1:O:692:LYS:HE3	1:o:397:TYR:CE2	2.33	0.64
1:P:518:ASN:ND2	1:p:474:SER:HB2	2.04	0.64
1:s:523:MET:HE2	1:s:523:MET:CA	2.23	0.64
1:z:397:TYR:CE2	1:7:692:LYS:HE3	2.32	0.64
1:3:349:GLN:HA	1:3:349:GLN:NE2	2.10	0.64
1:4:496:ASN:OD1	1:4:497:ASN:N	2.30	0.64
1:R:692:LYS:HE3	1:m:397:TYR:CE2	2.33	0.64
1:d:349:GLN:HE21	1:d:349:GLN:CA	2.04	0.64
1:7:277:THR:HG22	1:7:279:TRP:H	1.61	0.64
1:A:486:GLN:HG2	1:3:584:GLN:HE22	1.62	0.64
1:A:518:ASN:ND2	1:3:474:SER:HB2	2.04	0.64
1:B:397:TYR:CE2	1:6:692:LYS:HE3	2.32	0.64
1:G:692:LYS:HE3	1:8:397:TYR:CE2	2.33	0.64
1:H:349:GLN:HA	1:H:349:GLN:NE2	2.11	0.64
1:I:349:GLN:HA	1:I:349:GLN:NE2	2.11	0.64
1:I:486:GLN:HG2	1:U:584:GLN:HE22	1.62	0.64
1:N:277:THR:HG22	1:N:279:TRP:H	1.61	0.64
1:R:496:ASN:OD1	1:R:497:ASN:N	2.30	0.64
1:V:397:TYR:CE2	1:2:692:LYS:HE3	2.31	0.64
1:a:349:GLN:HA	1:a:349:GLN:NE2	2.10	0.64
1:i:584:GLN:HE22	1:s:486:GLN:HG2	1.62	0.64
1:j:584:GLN:HE22	1:2:486:GLN:HG2	1.62	0.64
1:l:496:ASN:OD1	1:l:497:ASN:N	2.30	0.64
1:o:692:LYS:HE3	1:w:397:TYR:CE2	2.33	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:r:610:ASP:HB2	1:r:728:THR:HG22	1.78	0.64
1:u:523:MET:HE2	1:u:523:MET:CA	2.23	0.64
1:E:584:GLN:HE22	1:l:486:GLN:HG2	1.62	0.64
1:G:486:GLN:HG2	1:M:584:GLN:HE22	1.62	0.64
1:J:397:TYR:CE2	1:P:692:LYS:HE3	2.32	0.64
1:O:496:ASN:OD1	1:O:497:ASN:N	2.30	0.64
1:W:692:LYS:HE3	1:1:397:TYR:CE2	2.32	0.64
1:Z:397:TYR:CE2	1:t:692:LYS:HE3	2.33	0.64
1:a:692:LYS:HE3	1:v:397:TYR:CE2	2.33	0.64
1:h:584:GLN:HE22	1:t:486:GLN:HG2	1.62	0.64
1:i:486:GLN:HG2	1:u:584:GLN:HE22	1.62	0.64
1:D:496:ASN:OD1	1:D:497:ASN:N	2.30	0.64
1:F:397:TYR:CE2	1:n:692:LYS:HE3	2.33	0.64
1:F:518:ASN:ND2	1:n:474:SER:HB2	2.04	0.64
1:I:474:SER:OG	1:N:634:MET:HE1	1.98	0.64
1:K:397:TYR:CE2	1:1:692:LYS:HE3	2.33	0.64
1:Q:692:LYS:HE3	1:Y:397:TYR:CE2	2.33	0.64
1:V:692:LYS:HE3	1:j:397:TYR:CE2	2.33	0.64
1:h:277:THR:HG22	1:h:279:TRP:H	1.61	0.64
1:i:277:THR:HG22	1:i:279:TRP:H	1.61	0.64
1:i:634:MET:HE1	1:u:474:SER:OG	1.98	0.64
1:q:496:ASN:OD1	1:q:497:ASN:N	2.30	0.64
1:s:584:GLN:HE22	1:u:486:GLN:HG2	1.62	0.64
1:u:349:GLN:HA	1:u:349:GLN:NE2	2.11	0.64
1:5:349:GLN:HA	1:5:349:GLN:NE2	2.11	0.64
1:A:496:ASN:OD1	1:A:497:ASN:N	2.30	0.63
1:B:692:LYS:HE3	1:4:397:TYR:CE2	2.33	0.63
1:O:486:GLN:HG2	1:w:584:GLN:HE22	1.62	0.63
1:P:634:MET:HE1	1:p:474:SER:OG	1.98	0.63
1:V:474:SER:OG	1:j:634:MET:HE1	1.98	0.63
1:Z:474:SER:OG	1:h:634:MET:HE1	1.99	0.63
1:a:474:SER:HB2	1:v:518:ASN:ND2	2.04	0.63
1:n:349:GLN:HE21	1:n:349:GLN:CA	2.04	0.63
1:v:496:ASN:OD1	1:v:497:ASN:N	2.30	0.63
1:w:349:GLN:HA	1:w:349:GLN:NE2	2.10	0.63
1:x:474:SER:OG	1:7:634:MET:HE1	1.98	0.63
1:x:692:LYS:HE3	1:7:397:TYR:CE2	2.33	0.63
1:A:397:TYR:CE2	1:3:692:LYS:HE3	2.33	0.63
1:A:634:MET:HE1	1:3:474:SER:OG	1.98	0.63
1:D:486:GLN:HG2	1:T:584:GLN:HE22	1.61	0.63
1:I:436:PRO:HG3	1:N:378:LEU:HD11	1.80	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:584:GLN:HE22	1:N:486:GLN:HG2	1.62	0.63
1:M:378:LEU:HD11	1:8:436:PRO:HG3	1.81	0.63
1:M:634:MET:HE1	1:8:474:SER:OG	1.99	0.63
1:N:692:LYS:HE3	1:U:397:TYR:CE2	2.32	0.63
1:P:397:TYR:CE2	1:p:692:LYS:HE3	2.33	0.63
1:Q:474:SER:OG	1:Y:634:MET:HE1	1.98	0.63
1:U:610:ASP:HB2	1:U:728:THR:HG22	1.78	0.63
1:V:474:SER:HB2	1:j:518:ASN:ND2	2.04	0.63
1:d:474:SER:HB2	1:y:518:ASN:ND2	2.04	0.63
1:d:692:LYS:HE3	1:y:397:TYR:CE2	2.33	0.63
1:k:496:ASN:OD1	1:k:497:ASN:N	2.30	0.63
1:E:474:SER:OG	1:l:634:MET:HE1	1.99	0.63
1:E:523:MET:HE2	1:E:523:MET:CA	2.23	0.63
1:N:485:GLN:HG2	1:N:506:THR:HG21	1.81	0.63
1:O:634:MET:HE1	1:w:474:SER:OG	1.99	0.63
1:T:397:TYR:CE2	1:q:692:LYS:HE3	2.33	0.63
1:Z:485:GLN:HG2	1:Z:506:THR:HG21	1.81	0.63
1:d:634:MET:HE1	1:f:474:SER:OG	1.99	0.63
1:i:378:LEU:HD11	1:u:436:PRO:HG3	1.81	0.63
1:i:474:SER:OG	1:s:634:MET:HE1	1.99	0.63
1:i:485:GLN:HG2	1:i:506:THR:HG21	1.81	0.63
1:i:692:LYS:HE3	1:s:397:TYR:CE2	2.32	0.63
1:2:523:MET:HE2	1:2:523:MET:CA	2.23	0.63
1:8:485:GLN:HG2	1:8:506:THR:HG21	1.81	0.63
1:A:485:GLN:HG2	1:A:506:THR:HG21	1.81	0.63
1:D:584:GLN:HE22	1:q:486:GLN:HG2	1.64	0.63
1:E:349:GLN:HA	1:E:349:GLN:NE2	2.10	0.63
1:J:634:MET:HE1	1:P:474:SER:OG	1.99	0.63
1:M:277:THR:HG22	1:M:279:TRP:H	1.61	0.63
1:N:474:SER:OG	1:U:634:MET:HE1	1.99	0.63
1:O:474:SER:OG	1:o:634:MET:HE1	1.99	0.63
1:T:378:LEU:HD11	1:q:436:PRO:HG3	1.79	0.63
1:X:634:MET:HE1	1:l:474:SER:OG	1.99	0.63
1:Z:436:PRO:HG3	1:h:378:LEU:HD11	1.81	0.63
1:b:474:SER:OG	1:n:634:MET:HE1	1.99	0.63
1:j:474:SER:OG	1:2:634:MET:HE1	1.99	0.63
1:k:378:LEU:HD11	1:m:436:PRO:HG3	1.80	0.63
1:3:496:ASN:OD1	1:3:497:ASN:N	2.30	0.63
1:D:692:LYS:HE3	1:q:397:TYR:CE2	2.34	0.63
1:E:485:GLN:HG2	1:E:506:THR:HG21	1.81	0.63
1:F:634:MET:HE1	1:n:474:SER:OG	1.99	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:474:SER:OG	1:8:634:MET:HE1	1.99	0.63
1:H:397:TYR:CE2	1:g:692:LYS:HE3	2.33	0.63
1:O:397:TYR:CE2	1:w:692:LYS:HE3	2.33	0.63
1:T:634:MET:HE1	1:q:474:SER:OG	1.97	0.63
1:Z:634:MET:HE1	1:t:474:SER:OG	1.99	0.63
1:a:496:ASN:OD1	1:a:497:ASN:N	2.30	0.63
1:f:397:TYR:CE2	1:y:692:LYS:HE3	2.33	0.63
1:q:485:GLN:HG2	1:q:506:THR:HG21	1.81	0.63
1:s:485:GLN:HG2	1:s:506:THR:HG21	1.81	0.63
1:s:610:ASP:HB2	1:s:728:THR:HG22	1.78	0.63
1:v:485:GLN:HG2	1:v:506:THR:HG21	1.81	0.63
1:z:634:MET:HE1	1:7:474:SER:OG	1.99	0.63
1:A:692:LYS:HE3	1:e:397:TYR:CE2	2.32	0.63
1:C:692:LYS:HE3	1:5:397:TYR:CE2	2.33	0.63
1:D:378:LEU:HD11	1:T:436:PRO:HG3	1.81	0.63
1:E:692:LYS:HE3	1:l:397:TYR:CE2	2.33	0.63
1:F:692:LYS:HE3	1:b:397:TYR:CE2	2.33	0.63
1:I:692:LYS:HE3	1:N:397:TYR:CE2	2.33	0.63
1:K:485:GLN:HG2	1:K:506:THR:HG21	1.81	0.63
1:L:634:MET:HE1	1:Y:474:SER:OG	1.99	0.63
1:Z:486:GLN:HG2	1:t:584:GLN:HE22	1.62	0.63
1:a:474:SER:OG	1:v:634:MET:HE1	1.99	0.63
1:b:692:LYS:HE3	1:n:397:TYR:CE2	2.32	0.63
1:c:397:TYR:CE2	1:v:692:LYS:HE3	2.33	0.63
1:d:397:TYR:CE2	1:f:692:LYS:HE3	2.33	0.63
1:d:474:SER:OG	1:y:634:MET:HE1	1.99	0.63
1:k:486:GLN:HG2	1:m:584:GLN:HE22	1.62	0.63
1:r:485:GLN:HG2	1:r:506:THR:HG21	1.81	0.63
1:u:485:GLN:HG2	1:u:506:THR:HG21	1.81	0.63
1:w:523:MET:HE2	1:w:523:MET:CA	2.23	0.63
1:2:349:GLN:HA	1:2:349:GLN:NE2	2.11	0.63
1:2:485:GLN:HG2	1:2:506:THR:HG21	1.81	0.63
1:4:485:GLN:HG2	1:4:506:THR:HG21	1.81	0.63
1:4:692:LYS:HE3	1:6:397:TYR:CE2	2.33	0.63
1:6:485:GLN:HG2	1:6:506:THR:HG21	1.81	0.63
1:C:474:SER:OG	1:5:634:MET:HE1	1.98	0.63
1:G:584:GLN:HE22	1:8:486:GLN:HG2	1.62	0.63
1:I:485:GLN:HG2	1:I:506:THR:HG21	1.81	0.63
1:J:485:GLN:HG2	1:J:506:THR:HG21	1.81	0.63
1:K:474:SER:OG	1:W:634:MET:HE1	1.98	0.63
1:S:485:GLN:HG2	1:S:506:THR:HG21	1.81	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:U:485:GLN:HG2	1:U:506:THR:HG21	1.81	0.63
1:V:485:GLN:HG2	1:V:506:THR:HG21	1.81	0.63
1:W:485:GLN:HG2	1:W:506:THR:HG21	1.81	0.63
1:g:485:GLN:HG2	1:g:506:THR:HG21	1.81	0.63
1:o:474:SER:OG	1:w:634:MET:HE1	1.98	0.63
1:p:485:GLN:HG2	1:p:506:THR:HG21	1.81	0.63
1:w:485:GLN:HG2	1:w:506:THR:HG21	1.81	0.63
1:4:436:PRO:HG3	1:6:378:LEU:HD11	1.80	0.63
1:A:378:LEU:HD11	1:3:436:PRO:HG3	1.80	0.63
1:C:485:GLN:HG2	1:C:506:THR:HG21	1.81	0.63
1:E:634:MET:HE1	1:X:474:SER:OG	1.98	0.63
1:H:634:MET:HE1	1:g:474:SER:OG	1.98	0.63
1:K:436:PRO:HG3	1:W:378:LEU:HD11	1.80	0.63
1:K:692:LYS:HE3	1:W:397:TYR:CE2	2.33	0.63
1:L:474:SER:OG	1:Q:634:MET:HE1	1.99	0.63
1:R:485:GLN:HG2	1:R:506:THR:HG21	1.81	0.63
1:f:485:GLN:HG2	1:f:506:THR:HG21	1.81	0.63
1:i:397:TYR:CE2	1:u:692:LYS:HE3	2.33	0.63
1:i:518:ASN:ND2	1:u:474:SER:HB2	2.04	0.63
1:7:485:GLN:HG2	1:7:506:THR:HG21	1.81	0.63
1:A:474:SER:OG	1:e:634:MET:HE1	1.99	0.63
1:G:397:TYR:CE2	1:M:692:LYS:HE3	2.33	0.63
1:I:474:SER:HB2	1:N:518:ASN:ND2	2.04	0.63
1:P:485:GLN:HG2	1:P:506:THR:HG21	1.81	0.63
1:Q:485:GLN:HG2	1:Q:506:THR:HG21	1.81	0.63
1:R:378:LEU:HD11	1:k:436:PRO:HG3	1.81	0.63
1:Y:485:GLN:HG2	1:Y:506:THR:HG21	1.81	0.63
1:4:474:SER:OG	1:6:634:MET:HE1	1.98	0.63
1:B:474:SER:OG	1:4:634:MET:HE1	1.99	0.62
1:F:474:SER:OG	1:b:634:MET:HE1	1.99	0.62
1:H:474:SER:OG	1:S:634:MET:HE1	1.99	0.62
1:J:349:GLN:HA	1:J:349:GLN:NE2	2.11	0.62
1:K:634:MET:HE1	1:1:474:SER:OG	1.99	0.62
1:L:692:LYS:HE3	1:Q:397:TYR:CE2	2.33	0.62
1:P:349:GLN:HA	1:P:349:GLN:NE2	2.11	0.62
1:V:436:PRO:HG3	1:j:378:LEU:HD11	1.81	0.62
1:b:485:GLN:HG2	1:b:506:THR:HG21	1.81	0.62
1:c:634:MET:HE1	1:v:474:SER:OG	1.99	0.62
1:f:634:MET:HE1	1:y:474:SER:OG	1.99	0.62
1:h:692:LYS:HE3	1:t:397:TYR:CE2	2.33	0.62
1:j:485:GLN:HG2	1:j:506:THR:HG21	1.81	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:r:634:MET:HE1	1:5:474:SER:OG	1.99	0.62
1:x:485:GLN:HG2	1:x:506:THR:HG21	1.81	0.62
1:x:634:MET:HE1	1:z:474:SER:OG	1.99	0.62
1:D:474:SER:OG	1:q:634:MET:HE1	1.98	0.62
1:L:474:SER:HB2	1:Q:518:ASN:ND2	2.04	0.62
1:h:474:SER:OG	1:t:634:MET:HE1	1.98	0.62
1:j:349:GLN:HA	1:j:349:GLN:NE2	2.11	0.62
1:k:634:MET:HE1	1:m:474:SER:OG	1.98	0.62
1:x:397:TYR:CE2	1:z:692:LYS:HE3	2.33	0.62
1:D:634:MET:HE1	1:T:474:SER:OG	1.98	0.62
1:J:692:LYS:HE3	1:p:397:TYR:CE2	2.33	0.62
1:P:378:LEU:HD11	1:p:436:PRO:HG3	1.81	0.62
1:Q:518:ASN:N	1:Q:519:PRO:HD2	2.15	0.62
1:d:378:LEU:HD11	1:f:436:PRO:HG3	1.81	0.62
1:i:518:ASN:N	1:i:519:PRO:HD2	2.15	0.62
1:x:518:ASN:N	1:x:519:PRO:HD2	2.15	0.62
1:D:518:ASN:N	1:D:519:PRO:HD2	2.15	0.62
1:G:634:MET:HE1	1:M:474:SER:OG	1.98	0.62
1:L:378:LEU:HD11	1:Y:436:PRO:HG3	1.81	0.62
1:N:518:ASN:N	1:N:519:PRO:HD2	2.15	0.62
1:S:436:PRO:HG3	1:g:378:LEU:HD11	1.81	0.62
1:W:474:SER:OG	1:1:634:MET:HE1	1.99	0.62
1:a:378:LEU:HD11	1:c:436:PRO:HG3	1.81	0.62
1:a:397:TYR:CE2	1:c:692:LYS:HE3	2.33	0.62
1:a:436:PRO:HG3	1:v:378:LEU:HD11	1.81	0.62
1:b:436:PRO:HG3	1:n:378:LEU:HD11	1.81	0.62
1:e:436:PRO:HG3	1:3:378:LEU:HD11	1.81	0.62
1:o:518:ASN:N	1:o:519:PRO:HD2	2.15	0.62
1:B:634:MET:HE1	1:6:474:SER:OG	1.99	0.62
1:C:481:PRO:O	1:C:523:MET:HE1	2.00	0.62
1:E:518:ASN:N	1:E:519:PRO:HD2	2.15	0.62
1:F:485:GLN:HG2	1:F:506:THR:HG21	1.81	0.62
1:X:349:GLN:HA	1:X:349:GLN:NE2	2.10	0.62
1:X:518:ASN:N	1:X:519:PRO:HD2	2.15	0.62
1:b:245:ARG:HD2	1:b:366:PRO:HA	1.82	0.62
1:e:518:ASN:N	1:e:519:PRO:HD2	2.15	0.62
1:f:245:ARG:HD2	1:f:366:PRO:HA	1.82	0.62
1:j:518:ASN:N	1:j:519:PRO:HD2	2.15	0.62
1:k:518:ASN:N	1:k:519:PRO:HD2	2.15	0.62
1:n:718:GLY:HA3	1:q:256:LEU:HD13	1.81	0.62
1:w:518:ASN:N	1:w:519:PRO:HD2	2.15	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:y:349:GLN:HA	1:y:349:GLN:NE2	2.10	0.62
1:z:245:ARG:HD2	1:z:366:PRO:HA	1.82	0.62
1:z:378:LEU:HD11	1:7:436:PRO:HG3	1.81	0.62
1:E:245:ARG:HD2	1:E:366:PRO:HA	1.82	0.62
1:L:245:ARG:HD2	1:L:366:PRO:HA	1.82	0.62
1:O:245:ARG:HD2	1:O:366:PRO:HA	1.82	0.62
1:O:481:PRO:O	1:O:523:MET:HE1	2.00	0.62
1:P:518:ASN:N	1:P:519:PRO:HD2	2.15	0.62
1:Z:245:ARG:HD2	1:Z:366:PRO:HA	1.82	0.62
1:c:518:ASN:N	1:c:519:PRO:HD2	2.15	0.62
1:e:692:LYS:HE3	1:3:397:TYR:CE2	2.33	0.62
1:k:349:GLN:HA	1:k:349:GLN:NE2	2.11	0.62
1:l:245:ARG:HD2	1:l:366:PRO:HA	1.82	0.62
1:l:485:GLN:HG2	1:l:506:THR:HG21	1.81	0.62
1:n:485:GLN:HG2	1:n:506:THR:HG21	1.81	0.62
1:s:518:ASN:N	1:s:519:PRO:HD2	2.15	0.62
1:w:245:ARG:HD2	1:w:366:PRO:HA	1.82	0.62
1:y:245:ARG:HD2	1:y:366:PRO:HA	1.82	0.62
1:y:485:GLN:HG2	1:y:506:THR:HG21	1.81	0.62
1:B:436:PRO:HG3	1:4:378:LEU:HD11	1.81	0.62
1:C:378:LEU:HD11	1:r:436:PRO:HG3	1.82	0.62
1:F:245:ARG:HD2	1:F:366:PRO:HA	1.82	0.62
1:F:349:GLN:HA	1:F:349:GLN:NE2	2.11	0.62
1:F:518:ASN:N	1:F:519:PRO:HD2	2.15	0.62
1:J:481:PRO:O	1:J:523:MET:HE1	2.00	0.62
1:Q:245:ARG:HD2	1:Q:366:PRO:HA	1.82	0.62
1:R:474:SER:OG	1:m:634:MET:HE1	1.99	0.62
1:T:481:PRO:O	1:T:523:MET:HE1	2.00	0.62
1:T:518:ASN:N	1:T:519:PRO:HD2	2.15	0.62
1:U:518:ASN:N	1:U:519:PRO:HD2	2.15	0.62
1:g:481:PRO:O	1:g:523:MET:HE1	2.00	0.62
1:l:481:PRO:O	1:l:523:MET:HE1	2.00	0.62
1:m:245:ARG:HD2	1:m:366:PRO:HA	1.82	0.62
1:x:245:ARG:HD2	1:x:366:PRO:HA	1.82	0.62
1:y:518:ASN:N	1:y:519:PRO:HD2	2.15	0.62
1:2:481:PRO:O	1:2:523:MET:HE1	2.00	0.62
1:4:518:ASN:N	1:4:519:PRO:HD2	2.15	0.62
1:K:518:ASN:N	1:K:519:PRO:HD2	2.15	0.62
1:L:436:PRO:HG3	1:Q:378:LEU:HD11	1.81	0.62
1:N:436:PRO:HG3	1:U:378:LEU:HD11	1.81	0.62
1:O:485:GLN:HG2	1:O:506:THR:HG21	1.81	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:T:245:ARG:HD2	1:T:366:PRO:HA	1.82	0.62
1:W:436:PRO:HG3	1:1:378:LEU:HD11	1.81	0.62
1:X:378:LEU:HD11	1:l:436:PRO:HG3	1.81	0.62
1:Y:245:ARG:HD2	1:Y:366:PRO:HA	1.82	0.62
1:a:518:ASN:N	1:a:519:PRO:HD2	2.15	0.62
1:d:485:GLN:HG2	1:d:506:THR:HG21	1.81	0.62
1:e:485:GLN:HG2	1:e:506:THR:HG21	1.81	0.62
1:m:481:PRO:O	1:m:523:MET:HE1	2.00	0.62
1:m:518:ASN:N	1:m:519:PRO:HD2	2.15	0.62
1:x:518:ASN:ND2	1:z:474:SER:HB2	2.04	0.62
1:1:481:PRO:O	1:1:523:MET:HE1	2.00	0.62
1:8:245:ARG:HD2	1:8:366:PRO:HA	1.82	0.62
1:B:378:LEU:HD11	1:6:436:PRO:HG3	1.81	0.62
1:B:481:PRO:O	1:B:523:MET:HE1	2.00	0.62
1:D:245:ARG:HD2	1:D:366:PRO:HA	1.82	0.62
1:D:349:GLN:HA	1:D:349:GLN:NE2	2.11	0.62
1:F:436:PRO:HG3	1:b:378:LEU:HD11	1.81	0.62
1:L:518:ASN:N	1:L:519:PRO:HD2	2.15	0.62
1:O:436:PRO:HG3	1:o:378:LEU:HD11	1.81	0.62
1:P:523:MET:HE2	1:P:523:MET:CA	2.23	0.62
1:R:245:ARG:HD2	1:R:366:PRO:HA	1.82	0.62
1:R:634:MET:HE1	1:k:474:SER:OG	1.99	0.62
1:c:485:GLN:HG2	1:c:506:THR:HG21	1.81	0.62
1:c:618:TRP:CH2	1:c:643:PRO:HG2	2.35	0.62
1:d:481:PRO:O	1:d:523:MET:HE1	2.00	0.62
1:e:618:TRP:CH2	1:e:643:PRO:HG2	2.35	0.62
1:h:436:PRO:HG3	1:t:378:LEU:HD11	1.81	0.62
1:i:436:PRO:HG3	1:s:378:LEU:HD11	1.81	0.62
1:j:245:ARG:HD2	1:j:366:PRO:HA	1.82	0.62
1:k:245:ARG:HD2	1:k:366:PRO:HA	1.82	0.62
1:m:349:GLN:HE21	1:m:349:GLN:CA	2.04	0.62
1:n:481:PRO:O	1:n:523:MET:HE1	2.00	0.62
1:q:245:ARG:HD2	1:q:366:PRO:HA	1.82	0.62
1:3:518:ASN:N	1:3:519:PRO:HD2	2.15	0.62
1:6:523:MET:HE2	1:6:523:MET:CA	2.23	0.62
1:7:245:ARG:HD2	1:7:366:PRO:HA	1.82	0.62
1:A:245:ARG:HD2	1:A:366:PRO:HA	1.82	0.62
1:A:349:GLN:HA	1:A:349:GLN:NE2	2.10	0.62
1:A:481:PRO:O	1:A:523:MET:HE1	2.00	0.62
1:B:618:TRP:CH2	1:B:643:PRO:HG2	2.35	0.62
1:C:245:ARG:HD2	1:C:366:PRO:HA	1.82	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:397:TYR:CE2	1:T:692:LYS:HE3	2.33	0.62
1:G:485:GLN:HG2	1:G:506:THR:HG21	1.81	0.62
1:I:481:PRO:O	1:I:523:MET:HE1	2.00	0.62
1:O:378:LEU:HD11	1:w:436:PRO:HG3	1.81	0.62
1:P:481:PRO:O	1:P:523:MET:HE1	2.00	0.62
1:R:518:ASN:N	1:R:519:PRO:HD2	2.15	0.62
1:S:618:TRP:CH2	1:S:643:PRO:HG2	2.35	0.62
1:W:523:MET:HE2	1:W:523:MET:CA	2.23	0.62
1:b:481:PRO:O	1:b:523:MET:HE1	2.00	0.62
1:f:378:LEU:HD11	1:y:436:PRO:HG3	1.81	0.62
1:f:481:PRO:O	1:f:523:MET:HE1	2.00	0.62
1:j:481:PRO:O	1:j:523:MET:HE1	2.00	0.62
1:o:349:GLN:HA	1:o:349:GLN:NE2	2.11	0.62
1:p:518:ASN:N	1:p:519:PRO:HD2	2.15	0.62
1:q:518:ASN:N	1:q:519:PRO:HD2	2.15	0.62
1:r:518:ASN:N	1:r:519:PRO:HD2	2.15	0.62
1:r:618:TRP:CH2	1:r:643:PRO:HG2	2.35	0.62
1:t:485:GLN:HG2	1:t:506:THR:HG21	1.81	0.62
1:v:245:ARG:HD2	1:v:366:PRO:HA	1.82	0.62
1:z:518:ASN:N	1:z:519:PRO:HD2	2.15	0.62
1:E:436:PRO:HG3	1:l:378:LEU:HD11	1.81	0.61
1:G:245:ARG:HD2	1:G:366:PRO:HA	1.82	0.61
1:H:523:MET:HE2	1:H:523:MET:CA	2.23	0.61
1:K:378:LEU:HD11	1:1:436:PRO:HG3	1.81	0.61
1:L:481:PRO:O	1:L:523:MET:HE1	2.00	0.61
1:N:481:PRO:O	1:N:523:MET:HE1	2.00	0.61
1:P:245:ARG:HD2	1:P:366:PRO:HA	1.82	0.61
1:Q:436:PRO:HG3	1:Y:378:LEU:HD11	1.80	0.61
1:S:518:ASN:N	1:S:519:PRO:HD2	2.15	0.61
1:U:618:TRP:CH2	1:U:643:PRO:HG2	2.35	0.61
1:V:518:ASN:N	1:V:519:PRO:HD2	2.15	0.61
1:X:618:TRP:CH2	1:X:643:PRO:HG2	2.35	0.61
1:g:245:ARG:HD2	1:g:366:PRO:HA	1.82	0.61
1:i:481:PRO:O	1:i:523:MET:HE1	2.00	0.61
1:j:523:MET:HE2	1:j:523:MET:CA	2.23	0.61
1:s:618:TRP:CH2	1:s:643:PRO:HG2	2.35	0.61
1:u:618:TRP:CH2	1:u:643:PRO:HG2	2.35	0.61
1:v:481:PRO:O	1:v:523:MET:HE1	2.00	0.61
1:x:378:LEU:HD11	1:z:436:PRO:HG3	1.81	0.61
1:z:481:PRO:O	1:z:523:MET:HE1	2.00	0.61
1:z:485:GLN:HG2	1:z:506:THR:HG21	1.81	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:481:PRO:O	1:F:523:MET:HE1	2.00	0.61
1:H:485:GLN:HG2	1:H:506:THR:HG21	1.81	0.61
1:H:529:ASP:HB2	1:S:382:ASN:HD21	1.64	0.61
1:I:618:TRP:CH2	1:I:643:PRO:HG2	2.35	0.61
1:J:436:PRO:HG3	1:p:378:LEU:HD11	1.81	0.61
1:L:485:GLN:HG2	1:L:506:THR:HG21	1.81	0.61
1:M:618:TRP:CH2	1:M:643:PRO:HG2	2.35	0.61
1:S:474:SER:OG	1:g:634:MET:HE1	2.00	0.61
1:X:485:GLN:HG2	1:X:506:THR:HG21	1.81	0.61
1:b:474:SER:HB2	1:n:518:ASN:ND2	2.04	0.61
1:b:518:ASN:N	1:b:519:PRO:HD2	2.15	0.61
1:e:474:SER:OG	1:3:634:MET:HE1	1.99	0.61
1:h:618:TRP:CH2	1:h:643:PRO:HG2	2.35	0.61
1:o:618:TRP:CH2	1:o:643:PRO:HG2	2.35	0.61
1:r:481:PRO:O	1:r:523:MET:HE1	2.00	0.61
1:s:481:PRO:O	1:s:523:MET:HE1	2.00	0.61
1:t:245:ARG:HD2	1:t:366:PRO:HA	1.82	0.61
1:u:481:PRO:O	1:u:523:MET:HE1	2.00	0.61
1:v:349:GLN:HA	1:v:349:GLN:NE2	2.11	0.61
1:w:618:TRP:CH2	1:w:643:PRO:HG2	2.35	0.61
1:x:436:PRO:HG3	1:7:378:LEU:HD11	1.81	0.61
1:y:481:PRO:O	1:y:523:MET:HE1	2.00	0.61
1:1:618:TRP:CH2	1:1:643:PRO:HG2	2.35	0.61
1:5:485:GLN:HG2	1:5:506:THR:HG21	1.81	0.61
1:B:485:GLN:HG2	1:B:506:THR:HG21	1.81	0.61
1:C:436:PRO:HG3	1:5:378:LEU:HD11	1.80	0.61
1:C:518:ASN:N	1:C:519:PRO:HD2	2.15	0.61
1:E:529:ASP:HB2	1:l:382:ASN:HD21	1.66	0.61
1:E:618:TRP:CH2	1:E:643:PRO:HG2	2.35	0.61
1:G:378:LEU:HD11	1:M:436:PRO:HG3	1.81	0.61
1:H:481:PRO:O	1:H:523:MET:HE1	2.00	0.61
1:I:245:ARG:HD2	1:I:366:PRO:HA	1.82	0.61
1:M:518:ASN:N	1:M:519:PRO:HD2	2.15	0.61
1:U:481:PRO:O	1:U:523:MET:HE1	2.00	0.61
1:V:481:PRO:O	1:V:523:MET:HE1	2.00	0.61
1:a:485:GLN:HG2	1:a:506:THR:HG21	1.81	0.61
1:a:634:MET:HE1	1:c:474:SER:OG	1.99	0.61
1:c:245:ARG:HD2	1:c:366:PRO:HA	1.82	0.61
1:e:245:ARG:HD2	1:e:366:PRO:HA	1.82	0.61
1:f:518:ASN:N	1:f:519:PRO:HD2	2.15	0.61
1:g:518:ASN:N	1:g:519:PRO:HD2	2.15	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:h:518:ASN:N	1:h:519:PRO:HD2	2.15	0.61
1:p:481:PRO:O	1:p:523:MET:HE1	2.00	0.61
1:r:382:ASN:HD21	1:5:529:ASP:HB2	1.64	0.61
1:u:245:ARG:HD2	1:u:366:PRO:HA	1.82	0.61
1:3:485:GLN:HG2	1:3:506:THR:HG21	1.81	0.61
1:5:481:PRO:O	1:5:523:MET:HE1	2.00	0.61
1:6:518:ASN:N	1:6:519:PRO:HD2	2.15	0.61
1:A:715:ASP:OD1	1:A:716:THR:N	2.34	0.61
1:C:715:ASP:OD1	1:C:716:THR:N	2.34	0.61
1:I:634:MET:HE1	1:U:474:SER:OG	1.99	0.61
1:J:382:ASN:HD21	1:P:529:ASP:HB2	1.65	0.61
1:K:523:MET:HE2	1:K:523:MET:CA	2.23	0.61
1:M:485:GLN:HG2	1:M:506:THR:HG21	1.81	0.61
1:S:256:LEU:HD13	1:e:718:GLY:HA3	1.83	0.61
1:S:481:PRO:O	1:S:523:MET:HE1	2.00	0.61
1:T:349:GLN:HE21	1:T:349:GLN:CA	2.04	0.61
1:T:485:GLN:HG2	1:T:506:THR:HG21	1.81	0.61
1:W:518:ASN:N	1:W:519:PRO:HD2	2.15	0.61
1:d:436:PRO:HG3	1:y:378:LEU:HD11	1.81	0.61
1:j:715:ASP:OD1	1:j:716:THR:N	2.34	0.61
1:m:485:GLN:HG2	1:m:506:THR:HG21	1.81	0.61
1:o:485:GLN:HG2	1:o:506:THR:HG21	1.81	0.61
1:p:349:GLN:HA	1:p:349:GLN:NE2	2.11	0.61
1:s:436:PRO:HG3	1:u:378:LEU:HD11	1.81	0.61
1:s:474:SER:OG	1:u:634:MET:HE1	1.99	0.61
1:v:715:ASP:OD1	1:v:716:THR:N	2.34	0.61
1:1:485:GLN:HG2	1:1:506:THR:HG21	1.81	0.61
1:3:481:PRO:O	1:3:523:MET:HE1	2.00	0.61
1:4:523:MET:HE2	1:4:523:MET:CA	2.23	0.61
1:C:634:MET:HE1	1:r:474:SER:OG	2.01	0.61
1:F:378:LEU:HD11	1:n:436:PRO:HG3	1.81	0.61
1:H:378:LEU:HD11	1:g:436:PRO:HG3	1.81	0.61
1:I:378:LEU:HD11	1:U:436:PRO:HG3	1.81	0.61
1:M:481:PRO:O	1:M:523:MET:HE1	2.00	0.61
1:N:245:ARG:HD2	1:N:366:PRO:HA	1.82	0.61
1:N:618:TRP:CH2	1:N:643:PRO:HG2	2.35	0.61
1:O:382:ASN:HD21	1:w:529:ASP:HB2	1.66	0.61
1:O:518:ASN:N	1:O:519:PRO:HD2	2.15	0.61
1:P:715:ASP:OD1	1:P:716:THR:N	2.34	0.61
1:R:436:PRO:HG3	1:m:378:LEU:HD11	1.81	0.61
1:a:481:PRO:O	1:a:523:MET:HE1	2.00	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:a:618:TRP:CH2	1:a:643:PRO:HG2	2.35	0.61
1:d:529:ASP:HB2	1:y:382:ASN:HD21	1.65	0.61
1:d:618:TRP:CH2	1:d:643:PRO:HG2	2.35	0.61
1:e:715:ASP:OD1	1:e:716:THR:N	2.34	0.61
1:g:715:ASP:OD1	1:g:716:THR:N	2.34	0.61
1:h:481:PRO:O	1:h:523:MET:HE1	2.00	0.61
1:h:485:GLN:HG2	1:h:506:THR:HG21	1.81	0.61
1:i:618:TRP:CH2	1:i:643:PRO:HG2	2.35	0.61
1:l:518:ASN:N	1:l:519:PRO:HD2	2.15	0.61
1:n:518:ASN:N	1:n:519:PRO:HD2	2.15	0.61
1:n:618:TRP:CH2	1:n:643:PRO:HG2	2.35	0.61
1:r:715:ASP:OD1	1:r:716:THR:N	2.34	0.61
1:A:436:PRO:HG3	1:e:378:LEU:HD11	1.81	0.61
1:E:378:LEU:HD11	1:X:436:PRO:HG3	1.81	0.61
1:F:382:ASN:HD21	1:n:529:ASP:HB2	1.65	0.61
1:G:481:PRO:O	1:G:523:MET:HE1	2.00	0.61
1:G:618:TRP:CH2	1:G:643:PRO:HG2	2.35	0.61
1:J:245:ARG:HD2	1:J:366:PRO:HA	1.82	0.61
1:J:474:SER:OG	1:p:634:MET:HE1	1.99	0.61
1:M:715:ASP:OD1	1:M:716:THR:N	2.34	0.61
1:V:349:GLN:HA	1:V:349:GLN:NE2	2.11	0.61
1:X:715:ASP:OD1	1:X:716:THR:N	2.34	0.61
1:Y:518:ASN:N	1:Y:519:PRO:HD2	2.15	0.61
1:Z:518:ASN:N	1:Z:519:PRO:HD2	2.15	0.61
1:c:378:LEU:HD11	1:v:436:PRO:HG3	1.81	0.61
1:c:715:ASP:OD1	1:c:716:THR:N	2.34	0.61
1:c:718:GLY:HA3	1:r:256:LEU:HD13	1.83	0.61
1:d:518:ASN:ND2	1:f:474:SER:HB2	2.04	0.61
1:d:518:ASN:N	1:d:519:PRO:HD2	2.15	0.61
1:j:529:ASP:HB2	1:2:382:ASN:HD21	1.65	0.61
1:k:397:TYR:CE2	1:m:692:LYS:HE3	2.33	0.61
1:k:518:ASN:ND2	1:m:474:SER:HB2	2.04	0.61
1:o:436:PRO:HG3	1:w:378:LEU:HD11	1.81	0.61
1:o:715:ASP:OD1	1:o:716:THR:N	2.34	0.61
1:t:481:PRO:O	1:t:523:MET:HE1	2.00	0.61
1:2:245:ARG:HD2	1:2:366:PRO:HA	1.82	0.61
1:3:618:TRP:CH2	1:3:643:PRO:HG2	2.35	0.61
1:7:349:GLN:HE21	1:7:349:GLN:CA	2.04	0.61
1:8:518:ASN:N	1:8:519:PRO:HD2	2.15	0.61
1:C:618:TRP:CH2	1:C:643:PRO:HG2	2.35	0.61
1:D:436:PRO:HG3	1:q:378:LEU:HD11	1.83	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:715:ASP:OD1	1:D:716:THR:N	2.34	0.61
1:G:382:ASN:HD21	1:M:529:ASP:HB2	1.66	0.61
1:H:245:ARG:HD2	1:H:366:PRO:HA	1.82	0.61
1:H:382:ASN:HD21	1:g:529:ASP:HB2	1.66	0.61
1:J:529:ASP:HB2	1:p:382:ASN:HD21	1.66	0.61
1:S:715:ASP:OD1	1:S:716:THR:N	2.34	0.61
1:Y:349:GLN:HE21	1:Y:349:GLN:CA	2.04	0.61
1:Z:378:LEU:HD11	1:t:436:PRO:HG3	1.81	0.61
1:d:382:ASN:HD21	1:f:529:ASP:HB2	1.66	0.61
1:g:618:TRP:CH2	1:g:643:PRO:HG2	2.35	0.61
1:h:529:ASP:HB2	1:t:382:ASN:HD21	1.66	0.61
1:h:715:ASP:OD1	1:h:716:THR:N	2.34	0.61
1:i:245:ARG:HD2	1:i:366:PRO:HA	1.82	0.61
1:n:715:ASP:OD1	1:n:716:THR:N	2.34	0.61
1:p:245:ARG:HD2	1:p:366:PRO:HA	1.82	0.61
1:r:245:ARG:HD2	1:r:366:PRO:HA	1.82	0.61
1:t:618:TRP:CH2	1:t:643:PRO:HG2	2.35	0.61
1:2:618:TRP:CH2	1:2:643:PRO:HG2	2.35	0.61
1:7:518:ASN:N	1:7:519:PRO:HD2	2.15	0.61
1:8:715:ASP:OD1	1:8:716:THR:N	2.34	0.61
1:D:485:GLN:HG2	1:D:506:THR:HG21	1.81	0.61
1:D:529:ASP:HB2	1:q:382:ASN:HD21	1.64	0.61
1:G:436:PRO:HG3	1:8:378:LEU:HD11	1.81	0.61
1:I:529:ASP:HB2	1:N:382:ASN:HD21	1.65	0.61
1:I:715:ASP:OD1	1:I:716:THR:N	2.34	0.61
1:K:382:ASN:HD21	1:1:529:ASP:HB2	1.66	0.61
1:L:382:ASN:HD21	1:Y:529:ASP:HB2	1.66	0.61
1:V:378:LEU:HD11	1:2:436:PRO:HG3	1.81	0.61
1:V:634:MET:HE1	1:2:474:SER:OG	2.00	0.61
1:Y:715:ASP:OD1	1:Y:716:THR:N	2.34	0.61
1:Z:382:ASN:HD21	1:t:529:ASP:HB2	1.66	0.61
1:Z:715:ASP:OD1	1:Z:716:THR:N	2.34	0.61
1:a:382:ASN:HD21	1:c:529:ASP:HB2	1.66	0.61
1:b:529:ASP:HB2	1:n:382:ASN:HD21	1.66	0.61
1:k:485:GLN:HG2	1:k:506:THR:HG21	1.81	0.61
1:k:715:ASP:OD1	1:k:716:THR:N	2.34	0.61
1:u:518:ASN:N	1:u:519:PRO:HD2	2.15	0.61
1:u:715:ASP:OD1	1:u:716:THR:N	2.34	0.61
1:1:349:GLN:HA	1:1:349:GLN:NE2	2.11	0.61
1:1:523:MET:HE2	1:1:523:MET:CA	2.23	0.61
1:5:245:ARG:HD2	1:5:366:PRO:HA	1.82	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:518:ASN:ND2	1:6:474:SER:HB2	2.04	0.61
1:B:523:MET:HE2	1:B:523:MET:CA	2.23	0.61
1:C:529:ASP:HB2	1:5:382:ASN:HD21	1.66	0.61
1:G:529:ASP:HB2	1:8:382:ASN:HD21	1.66	0.61
1:J:618:TRP:CH2	1:J:643:PRO:HG2	2.35	0.61
1:K:529:ASP:HB2	1:W:382:ASN:HD21	1.66	0.61
1:Q:481:PRO:O	1:Q:523:MET:HE1	2.00	0.61
1:Q:618:TRP:CH2	1:Q:643:PRO:HG2	2.35	0.61
1:R:481:PRO:O	1:R:523:MET:HE1	2.00	0.61
1:S:245:ARG:HD2	1:S:366:PRO:HA	1.82	0.61
1:V:245:ARG:HD2	1:V:366:PRO:HA	1.82	0.61
1:c:481:PRO:O	1:c:523:MET:HE1	2.00	0.61
1:d:715:ASP:OD1	1:d:716:THR:N	2.34	0.61
1:e:529:ASP:HB2	1:3:382:ASN:HD21	1.65	0.61
1:j:349:GLN:HE21	1:j:349:GLN:CA	2.04	0.61
1:l:349:GLN:HA	1:l:349:GLN:NE2	2.10	0.61
1:l:618:TRP:CH2	1:l:643:PRO:HG2	2.35	0.61
1:q:481:PRO:O	1:q:523:MET:HE1	2.00	0.61
1:x:618:TRP:CH2	1:x:643:PRO:HG2	2.35	0.61
1:z:382:ASN:HD21	1:7:529:ASP:HB2	1.66	0.61
1:4:529:ASP:HB2	1:6:382:ASN:HD21	1.66	0.61
1:7:715:ASP:OD1	1:7:716:THR:N	2.34	0.61
1:B:349:GLN:HA	1:B:349:GLN:NE2	2.11	0.61
1:I:296:TRP:CD1	1:I:300:ILE:HD11	2.36	0.61
1:K:481:PRO:O	1:K:523:MET:HE1	2.00	0.61
1:L:349:GLN:HA	1:L:349:GLN:NE2	2.11	0.61
1:O:349:GLN:HA	1:O:349:GLN:NE2	2.11	0.61
1:O:618:TRP:CH2	1:O:643:PRO:HG2	2.35	0.61
1:R:529:ASP:HB2	1:m:382:ASN:HD21	1.66	0.61
1:U:296:TRP:CD1	1:U:300:ILE:HD11	2.36	0.61
1:Y:618:TRP:CH2	1:Y:643:PRO:HG2	2.35	0.61
1:f:296:TRP:CD1	1:f:300:ILE:HD11	2.36	0.61
1:f:618:TRP:CH2	1:f:643:PRO:HG2	2.35	0.61
1:i:382:ASN:HD21	1:u:529:ASP:HB2	1.65	0.61
1:j:474:SER:HB2	1:2:518:ASN:ND2	2.04	0.61
1:k:618:TRP:CH2	1:k:643:PRO:HG2	2.35	0.61
1:n:349:GLN:HA	1:n:349:GLN:NE2	2.10	0.61
1:s:296:TRP:CD1	1:s:300:ILE:HD11	2.36	0.61
1:x:481:PRO:O	1:x:523:MET:HE1	2.00	0.61
1:y:618:TRP:CH2	1:y:643:PRO:HG2	2.35	0.61
1:1:245:ARG:HD2	1:1:366:PRO:HA	1.82	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:6:618:TRP:CH2	1:6:643:PRO:HG2	2.35	0.61
1:A:518:ASN:N	1:A:519:PRO:HD2	2.15	0.60
1:B:529:ASP:HB2	1:4:382:ASN:HD21	1.66	0.60
1:D:618:TRP:CH2	1:D:643:PRO:HG2	2.35	0.60
1:F:296:TRP:CD1	1:F:300:ILE:HD11	2.36	0.60
1:F:618:TRP:CH2	1:F:643:PRO:HG2	2.35	0.60
1:I:518:ASN:N	1:I:519:PRO:HD2	2.15	0.60
1:K:279:TRP:CD1	1:K:395:LEU:HD12	2.36	0.60
1:K:618:TRP:CH2	1:K:643:PRO:HG2	2.35	0.60
1:L:279:TRP:CD1	1:L:395:LEU:HD12	2.36	0.60
1:L:529:ASP:HB2	1:Q:382:ASN:HD21	1.66	0.60
1:P:382:ASN:HD21	1:p:529:ASP:HB2	1.66	0.60
1:W:279:TRP:CD1	1:W:395:LEU:HD12	2.36	0.60
1:W:474:SER:HB2	1:1:518:ASN:ND2	2.04	0.60
1:W:618:TRP:CH2	1:W:643:PRO:HG2	2.35	0.60
1:Z:481:PRO:O	1:Z:523:MET:HE1	2.00	0.60
1:a:279:TRP:CD1	1:a:395:LEU:HD12	2.36	0.60
1:b:296:TRP:CD1	1:b:300:ILE:HD11	2.36	0.60
1:b:618:TRP:CH2	1:b:643:PRO:HG2	2.35	0.60
1:e:481:PRO:O	1:e:523:MET:HE1	2.00	0.60
1:i:279:TRP:CD1	1:i:395:LEU:HD12	2.36	0.60
1:i:296:TRP:CD1	1:i:300:ILE:HD11	2.36	0.60
1:o:256:LEU:HD13	1:q:718:GLY:HA3	1.82	0.60
1:u:296:TRP:CD1	1:u:300:ILE:HD11	2.36	0.60
1:y:296:TRP:CD1	1:y:300:ILE:HD11	2.36	0.60
1:z:279:TRP:CD1	1:z:395:LEU:HD12	2.36	0.60
1:z:349:GLN:HA	1:z:349:GLN:NE2	2.10	0.60
1:4:245:ARG:HD2	1:4:366:PRO:HA	1.82	0.60
1:4:481:PRO:O	1:4:523:MET:HE1	2.00	0.60
1:4:618:TRP:CH2	1:4:643:PRO:HG2	2.35	0.60
1:6:481:PRO:O	1:6:523:MET:HE1	2.00	0.60
1:7:481:PRO:O	1:7:523:MET:HE1	2.00	0.60
1:7:618:TRP:CH2	1:7:643:PRO:HG2	2.35	0.60
1:8:523:MET:HE2	1:8:523:MET:CA	2.23	0.60
1:B:245:ARG:HD2	1:B:366:PRO:HA	1.82	0.60
1:B:715:ASP:OD1	1:B:716:THR:N	2.34	0.60
1:D:718:GLY:HA3	1:F:256:LEU:HD13	1.83	0.60
1:G:715:ASP:OD1	1:G:716:THR:N	2.34	0.60
1:H:296:TRP:CD1	1:H:300:ILE:HD11	2.36	0.60
1:K:245:ARG:HD2	1:K:366:PRO:HA	1.82	0.60
1:K:296:TRP:CD1	1:K:300:ILE:HD11	2.36	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:715:ASP:OD1	1:K:716:THR:N	2.34	0.60
1:L:296:TRP:CD1	1:L:300:ILE:HD11	2.36	0.60
1:L:715:ASP:OD1	1:L:716:THR:N	2.34	0.60
1:N:296:TRP:CD1	1:N:300:ILE:HD11	2.36	0.60
1:W:245:ARG:HD2	1:W:366:PRO:HA	1.82	0.60
1:W:481:PRO:O	1:W:523:MET:HE1	2.00	0.60
1:Y:481:PRO:O	1:Y:523:MET:HE1	2.00	0.60
1:Z:296:TRP:CD1	1:Z:300:ILE:HD11	2.36	0.60
1:Z:523:MET:HE2	1:Z:523:MET:CA	2.23	0.60
1:j:618:TRP:CH2	1:j:643:PRO:HG2	2.35	0.60
1:k:481:PRO:O	1:k:523:MET:HE1	2.00	0.60
1:p:618:TRP:CH2	1:p:643:PRO:HG2	2.35	0.60
1:t:715:ASP:OD1	1:t:716:THR:N	2.34	0.60
1:v:518:ASN:N	1:v:519:PRO:HD2	2.15	0.60
1:z:296:TRP:CD1	1:z:300:ILE:HD11	2.36	0.60
1:2:715:ASP:OD1	1:2:716:THR:N	2.34	0.60
1:3:279:TRP:CD1	1:3:395:LEU:HD12	2.37	0.60
1:4:279:TRP:CD1	1:4:395:LEU:HD12	2.37	0.60
1:5:296:TRP:CD1	1:5:300:ILE:HD11	2.36	0.60
1:6:279:TRP:CD1	1:6:395:LEU:HD12	2.37	0.60
1:7:279:TRP:CD1	1:7:395:LEU:HD12	2.36	0.60
1:7:296:TRP:CD1	1:7:300:ILE:HD11	2.36	0.60
1:8:296:TRP:CD1	1:8:300:ILE:HD11	2.36	0.60
1:8:481:PRO:O	1:8:523:MET:HE1	2.00	0.60
1:B:518:ASN:N	1:B:519:PRO:HD2	2.15	0.60
1:D:481:PRO:O	1:D:523:MET:HE1	2.00	0.60
1:G:518:ASN:N	1:G:519:PRO:HD2	2.15	0.60
1:H:518:ASN:N	1:H:519:PRO:HD2	2.15	0.60
1:J:715:ASP:OD1	1:J:716:THR:N	2.34	0.60
1:N:279:TRP:CD1	1:N:395:LEU:HD12	2.37	0.60
1:P:618:TRP:CH2	1:P:643:PRO:HG2	2.35	0.60
1:R:382:ASN:HD21	1:k:529:ASP:HB2	1.66	0.60
1:R:715:ASP:OD1	1:R:716:THR:N	2.34	0.60
1:T:618:TRP:CH2	1:T:643:PRO:HG2	2.35	0.60
1:V:529:ASP:HB2	1:j:382:ASN:HD21	1.66	0.60
1:V:618:TRP:CH2	1:V:643:PRO:HG2	2.35	0.60
1:Y:279:TRP:CD1	1:Y:395:LEU:HD12	2.37	0.60
1:Y:296:TRP:CD1	1:Y:300:ILE:HD11	2.36	0.60
1:Z:618:TRP:CH2	1:Z:643:PRO:HG2	2.35	0.60
1:e:296:TRP:CD1	1:e:300:ILE:HD11	2.36	0.60
1:h:527:LYS:HE3	1:t:512:GLY:HA3	1.83	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:m:618:TRP:CH2	1:m:643:PRO:HG2	2.35	0.60
1:r:279:TRP:CD1	1:r:395:LEU:HD12	2.36	0.60
1:w:481:PRO:O	1:w:523:MET:HE1	2.00	0.60
1:w:715:ASP:OD1	1:w:716:THR:N	2.34	0.60
1:x:382:ASN:HD21	1:z:529:ASP:HB2	1.66	0.60
1:z:715:ASP:OD1	1:z:716:THR:N	2.34	0.60
1:4:296:TRP:CD1	1:4:300:ILE:HD11	2.36	0.60
1:4:715:ASP:OD1	1:4:716:THR:N	2.34	0.60
1:6:245:ARG:HD2	1:6:366:PRO:HA	1.82	0.60
1:D:518:ASN:ND2	1:T:474:SER:HB2	2.05	0.60
1:E:715:ASP:OD1	1:E:716:THR:N	2.34	0.60
1:F:512:GLY:HA3	1:n:527:LYS:HE3	1.84	0.60
1:H:618:TRP:CH2	1:H:643:PRO:HG2	2.35	0.60
1:J:378:LEU:HD11	1:P:436:PRO:HG3	1.81	0.60
1:J:518:ASN:N	1:J:519:PRO:HD2	2.15	0.60
1:L:618:TRP:CH2	1:L:643:PRO:HG2	2.35	0.60
1:P:349:GLN:HE21	1:P:349:GLN:CA	2.04	0.60
1:Q:279:TRP:CD1	1:Q:395:LEU:HD12	2.36	0.60
1:R:279:TRP:CD1	1:R:395:LEU:HD12	2.36	0.60
1:S:279:TRP:CD1	1:S:395:LEU:HD12	2.36	0.60
1:S:296:TRP:CD1	1:S:300:ILE:HD11	2.36	0.60
1:U:279:TRP:CD1	1:U:395:LEU:HD12	2.36	0.60
1:c:296:TRP:CD1	1:c:300:ILE:HD11	2.36	0.60
1:m:296:TRP:CD1	1:m:300:ILE:HD11	2.36	0.60
1:n:245:ARG:HD2	1:n:366:PRO:HA	1.82	0.60
1:o:245:ARG:HD2	1:o:366:PRO:HA	1.82	0.60
1:p:296:TRP:CD1	1:p:300:ILE:HD11	2.36	0.60
1:q:715:ASP:OD1	1:q:716:THR:N	2.34	0.60
1:r:296:TRP:CD1	1:r:300:ILE:HD11	2.36	0.60
1:s:529:ASP:HB2	1:u:382:ASN:HD21	1.66	0.60
1:t:349:GLN:HA	1:t:349:GLN:NE2	2.11	0.60
1:x:279:TRP:CD1	1:x:395:LEU:HD12	2.36	0.60
1:z:618:TRP:CH2	1:z:643:PRO:HG2	2.35	0.60
1:1:715:ASP:OD1	1:1:716:THR:N	2.34	0.60
1:5:518:ASN:N	1:5:519:PRO:HD2	2.15	0.60
1:8:618:TRP:CH2	1:8:643:PRO:HG2	2.35	0.60
1:A:536:GLN:HG3	1:3:445:LEU:HD22	1.83	0.60
1:A:618:TRP:CH2	1:A:643:PRO:HG2	2.35	0.60
1:B:382:ASN:HD21	1:6:529:ASP:HB2	1.66	0.60
1:D:382:ASN:HD21	1:T:529:ASP:HB2	1.65	0.60
1:E:256:LEU:HD13	1:S:718:GLY:HA3	1.83	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:481:PRO:O	1:E:523:MET:HE1	2.00	0.60
1:I:382:ASN:HD21	1:U:529:ASP:HB2	1.66	0.60
1:M:382:ASN:HD21	1:8:529:ASP:HB2	1.66	0.60
1:N:529:ASP:HB2	1:U:382:ASN:HD21	1.66	0.60
1:Q:529:ASP:HB2	1:Y:382:ASN:HD21	1.65	0.60
1:R:296:TRP:CD1	1:R:300:ILE:HD11	2.36	0.60
1:T:296:TRP:CD1	1:T:300:ILE:HD11	2.36	0.60
1:V:296:TRP:CD1	1:V:300:ILE:HD11	2.36	0.60
1:W:529:ASP:HB2	1:1:382:ASN:HD21	1.66	0.60
1:Z:529:ASP:HB2	1:h:382:ASN:HD21	1.66	0.60
1:d:349:GLN:HA	1:d:349:GLN:NE2	2.11	0.60
1:d:527:LYS:HE3	1:y:512:GLY:HA3	1.84	0.60
1:h:296:TRP:CD1	1:h:300:ILE:HD11	2.36	0.60
1:i:529:ASP:HB2	1:s:382:ASN:HD21	1.66	0.60
1:k:718:GLY:HA3	1:y:256:LEU:HD13	1.84	0.60
1:o:481:PRO:O	1:o:523:MET:HE1	2.00	0.60
1:q:279:TRP:CD1	1:q:395:LEU:HD12	2.36	0.60
1:q:296:TRP:CD1	1:q:300:ILE:HD11	2.36	0.60
1:s:245:ARG:HD2	1:s:366:PRO:HA	1.82	0.60
1:s:279:TRP:CD1	1:s:395:LEU:HD12	2.36	0.60
1:t:518:ASN:N	1:t:519:PRO:HD2	2.15	0.60
1:v:618:TRP:CH2	1:v:643:PRO:HG2	2.35	0.60
1:x:512:GLY:HA3	1:z:527:LYS:HE3	1.84	0.60
1:1:518:ASN:N	1:1:519:PRO:HD2	2.15	0.60
1:3:245:ARG:HD2	1:3:366:PRO:HA	1.82	0.60
1:5:618:TRP:CH2	1:5:643:PRO:HG2	2.35	0.60
1:6:296:TRP:CD1	1:6:300:ILE:HD11	2.36	0.60
1:B:296:TRP:CD1	1:B:300:ILE:HD11	2.36	0.60
1:D:296:TRP:CD1	1:D:300:ILE:HD11	2.36	0.60
1:F:529:ASP:HB2	1:b:382:ASN:HD21	1.65	0.60
1:G:349:GLN:HA	1:G:349:GLN:NE2	2.11	0.60
1:J:279:TRP:CD1	1:J:395:LEU:HD12	2.36	0.60
1:M:296:TRP:CD1	1:M:300:ILE:HD11	2.36	0.60
1:N:527:LYS:HE3	1:U:512:GLY:HA3	1.84	0.60
1:O:512:GLY:HA3	1:w:527:LYS:HE3	1.84	0.60
1:T:349:GLN:HA	1:T:349:GLN:NE2	2.11	0.60
1:U:245:ARG:HD2	1:U:366:PRO:HA	1.82	0.60
1:W:296:TRP:CD1	1:W:300:ILE:HD11	2.36	0.60
1:X:245:ARG:HD2	1:X:366:PRO:HA	1.82	0.60
1:b:523:MET:HE2	1:b:523:MET:CA	2.23	0.60
1:c:512:GLY:HA3	1:v:527:LYS:HE3	1.84	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:d:245:ARG:HD2	1:d:366:PRO:HA	1.82	0.60
1:f:382:ASN:HD21	1:y:529:ASP:HB2	1.66	0.60
1:h:445:LEU:HD22	1:t:536:GLN:HG3	1.84	0.60
1:i:527:LYS:HE3	1:s:512:GLY:HA3	1.84	0.60
1:k:296:TRP:CD1	1:k:300:ILE:HD11	2.36	0.60
1:r:718:GLY:HA3	1:w:256:LEU:HD13	1.83	0.60
1:w:296:TRP:CD1	1:w:300:ILE:HD11	2.36	0.60
1:y:279:TRP:CD1	1:y:395:LEU:HD12	2.36	0.60
1:1:296:TRP:CD1	1:1:300:ILE:HD11	2.36	0.60
1:2:279:TRP:CD1	1:2:395:LEU:HD12	2.36	0.60
1:C:296:TRP:CD1	1:C:300:ILE:HD11	2.36	0.60
1:D:256:LEU:HD13	1:m:718:GLY:HA3	1.84	0.60
1:E:279:TRP:CD1	1:E:395:LEU:HD12	2.36	0.60
1:F:279:TRP:CD1	1:F:395:LEU:HD12	2.37	0.60
1:G:512:GLY:HA3	1:M:527:LYS:HE3	1.84	0.60
1:K:527:LYS:HE3	1:W:512:GLY:HA3	1.84	0.60
1:L:527:LYS:HE3	1:Q:512:GLY:HA3	1.84	0.60
1:P:296:TRP:CD1	1:P:300:ILE:HD11	2.36	0.60
1:T:536:GLN:HG3	1:q:445:LEU:HD22	1.83	0.60
1:X:382:ASN:HD21	1:l:529:ASP:HB2	1.66	0.60
1:X:481:PRO:O	1:X:523:MET:HE1	2.00	0.60
1:Z:279:TRP:CD1	1:Z:395:LEU:HD12	2.37	0.60
1:a:529:ASP:HB2	1:v:382:ASN:HD21	1.65	0.60
1:e:527:LYS:HE3	1:3:512:GLY:HA3	1.84	0.60
1:g:279:TRP:CD1	1:g:395:LEU:HD12	2.36	0.60
1:g:296:TRP:CD1	1:g:300:ILE:HD11	2.36	0.60
1:i:536:GLN:HG3	1:u:445:LEU:HD22	1.84	0.60
1:l:279:TRP:CD1	1:l:395:LEU:HD12	2.36	0.60
1:q:618:TRP:CH2	1:q:643:PRO:HG2	2.35	0.60
1:w:279:TRP:CD1	1:w:395:LEU:HD12	2.37	0.60
1:x:529:ASP:HB2	1:7:382:ASN:HD21	1.65	0.60
1:2:518:ASN:N	1:2:519:PRO:HD2	2.15	0.60
1:C:279:TRP:CD1	1:C:395:LEU:HD12	2.36	0.60
1:E:296:TRP:CD1	1:E:300:ILE:HD11	2.36	0.60
1:E:527:LYS:HE3	1:l:512:GLY:HA3	1.84	0.60
1:G:536:GLN:HG3	1:M:445:LEU:HD22	1.84	0.60
1:P:536:GLN:HG3	1:p:445:LEU:HD22	1.84	0.60
1:U:718:GLY:HA3	1:l:256:LEU:HD13	1.84	0.60
1:a:245:ARG:HD2	1:a:366:PRO:HA	1.82	0.60
1:a:296:TRP:CD1	1:a:300:ILE:HD11	2.36	0.60
1:a:445:LEU:HD22	1:v:536:GLN:HG3	1.84	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:a:527:LYS:HE3	1:v:512:GLY:HA3	1.84	0.60
1:a:715:ASP:OD1	1:a:716:THR:N	2.34	0.60
1:h:279:TRP:CD1	1:h:395:LEU:HD12	2.36	0.60
1:j:296:TRP:CD1	1:j:300:ILE:HD11	2.36	0.60
1:m:349:GLN:HA	1:m:349:GLN:NE2	2.10	0.60
1:n:296:TRP:CD1	1:n:300:ILE:HD11	2.36	0.60
1:o:445:LEU:HD22	1:w:536:GLN:HG3	1.84	0.60
1:s:256:LEU:HD13	1:y:718:GLY:HA3	1.84	0.60
1:8:279:TRP:CD1	1:8:395:LEU:HD12	2.37	0.60
1:A:512:GLY:HA3	1:3:527:LYS:HE3	1.84	0.60
1:A:718:GLY:HA3	1:L:256:LEU:HD13	1.84	0.60
1:B:536:GLN:HG3	1:6:445:LEU:HD22	1.84	0.60
1:D:279:TRP:CD1	1:D:395:LEU:HD12	2.37	0.60
1:E:536:GLN:HG3	1:X:445:LEU:HD22	1.84	0.60
1:F:527:LYS:HE3	1:b:512:GLY:HA3	1.84	0.60
1:F:718:GLY:HA3	1:U:256:LEU:HD13	1.84	0.60
1:I:279:TRP:CD1	1:I:395:LEU:HD12	2.36	0.60
1:I:445:LEU:HD22	1:N:536:GLN:HG3	1.84	0.60
1:K:256:LEU:HD13	1:Z:718:GLY:HA3	1.84	0.60
1:L:536:GLN:HG3	1:Y:445:LEU:HD22	1.84	0.60
1:M:279:TRP:CD1	1:M:395:LEU:HD12	2.36	0.60
1:O:279:TRP:CD1	1:O:395:LEU:HD12	2.37	0.60
1:O:296:TRP:CD1	1:O:300:ILE:HD11	2.36	0.60
1:O:529:ASP:HB2	1:o:382:ASN:HD21	1.66	0.60
1:R:618:TRP:CH2	1:R:643:PRO:HG2	2.35	0.60
1:V:445:LEU:HD22	1:j:536:GLN:HG3	1.84	0.60
1:c:382:ASN:HD21	1:v:529:ASP:HB2	1.66	0.60
1:d:296:TRP:CD1	1:d:300:ILE:HD11	2.36	0.60
1:e:279:TRP:CD1	1:e:395:LEU:HD12	2.36	0.60
1:f:523:MET:HE2	1:f:523:MET:CA	2.23	0.60
1:g:247:TRP:NE1	1:g:676:GLY:O	2.35	0.60
1:k:382:ASN:HD21	1:m:529:ASP:HB2	1.66	0.60
1:s:527:LYS:HE3	1:u:512:GLY:HA3	1.84	0.60
1:u:279:TRP:CD1	1:u:395:LEU:HD12	2.37	0.60
1:3:296:TRP:CD1	1:3:300:ILE:HD11	2.36	0.60
1:3:715:ASP:OD1	1:3:716:THR:N	2.34	0.60
1:4:256:LEU:HD13	1:8:718:GLY:HA3	1.84	0.60
1:4:527:LYS:HE3	1:6:512:GLY:HA3	1.84	0.60
1:7:349:GLN:HA	1:7:349:GLN:NE2	2.11	0.60
1:A:279:TRP:CD1	1:A:395:LEU:HD12	2.36	0.60
1:A:527:LYS:HE3	1:e:512:GLY:HA3	1.84	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:247:TRP:NE1	1:C:676:GLY:O	2.35	0.60
1:G:256:LEU:HD13	1:J:718:GLY:HA3	1.83	0.60
1:H:247:TRP:NE1	1:H:676:GLY:O	2.35	0.60
1:I:512:GLY:HA3	1:U:527:LYS:HE3	1.84	0.60
1:J:277:THR:HG21	1:J:395:LEU:HD12	1.84	0.60
1:L:247:TRP:NE1	1:L:676:GLY:O	2.35	0.60
1:M:245:ARG:HD2	1:M:366:PRO:HA	1.82	0.60
1:N:718:GLY:HA3	1:b:256:LEU:HD13	1.84	0.60
1:a:512:GLY:HA3	1:c:527:LYS:HE3	1.84	0.60
1:c:247:TRP:NE1	1:c:676:GLY:O	2.35	0.60
1:f:512:GLY:HA3	1:y:527:LYS:HE3	1.84	0.60
1:k:279:TRP:CD1	1:k:395:LEU:HD12	2.36	0.60
1:l:296:TRP:CD1	1:l:300:ILE:HD11	2.36	0.60
1:v:718:GLY:HA3	1:z:256:LEU:HD13	1.84	0.60
1:z:247:TRP:NE1	1:z:676:GLY:O	2.35	0.60
1:z:536:GLN:HG3	1:7:445:LEU:HD22	1.84	0.60
1:2:277:THR:HG21	1:2:395:LEU:HD12	1.84	0.60
1:5:247:TRP:NE1	1:5:676:GLY:O	2.35	0.60
1:5:279:TRP:CD1	1:5:395:LEU:HD12	2.37	0.60
1:A:296:TRP:CD1	1:A:300:ILE:HD11	2.36	0.59
1:A:474:SER:HB2	1:e:518:ASN:ND2	2.04	0.59
1:H:279:TRP:CD1	1:H:395:LEU:HD12	2.37	0.59
1:V:279:TRP:CD1	1:V:395:LEU:HD12	2.36	0.59
1:W:445:LEU:HD22	1:1:536:GLN:HG3	1.84	0.59
1:X:247:TRP:NE1	1:X:676:GLY:O	2.35	0.59
1:X:279:TRP:CD1	1:X:395:LEU:HD12	2.37	0.59
1:Y:349:GLN:HA	1:Y:349:GLN:NE2	2.11	0.59
1:b:247:TRP:NE1	1:b:676:GLY:O	2.35	0.59
1:b:426:HIS:CE1	1:b:607:GLN:HE21	2.17	0.59
1:c:518:ASN:ND2	1:v:474:SER:HB2	2.04	0.59
1:e:247:TRP:NE1	1:e:676:GLY:O	2.35	0.59
1:f:247:TRP:NE1	1:f:676:GLY:O	2.35	0.59
1:i:247:TRP:NE1	1:i:676:GLY:O	2.35	0.59
1:t:296:TRP:CD1	1:t:300:ILE:HD11	2.36	0.59
1:v:256:LEU:HD13	1:6:718:GLY:HA3	1.84	0.59
1:v:279:TRP:CD1	1:v:395:LEU:HD12	2.36	0.59
1:2:247:TRP:NE1	1:2:676:GLY:O	2.35	0.59
1:5:277:THR:HG21	1:5:395:LEU:HD12	1.84	0.59
1:H:256:LEU:HD13	1:V:718:GLY:HA3	1.84	0.59
1:H:436:PRO:HG3	1:S:378:LEU:HD11	1.82	0.59
1:J:247:TRP:NE1	1:J:676:GLY:O	2.35	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:296:TRP:CD1	1:J:300:ILE:HD11	2.36	0.59
1:N:247:TRP:NE1	1:N:676:GLY:O	2.35	0.59
1:O:256:LEU:HD13	1:s:718:GLY:HA3	1.84	0.59
1:O:445:LEU:HD22	1:o:536:GLN:HG3	1.84	0.59
1:Q:715:ASP:OD1	1:Q:716:THR:N	2.34	0.59
1:S:529:ASP:HB2	1:g:382:ASN:HD21	1.66	0.59
1:T:277:THR:HG21	1:T:395:LEU:HD12	1.84	0.59
1:T:718:GLY:HA3	1:k:256:LEU:HD13	1.84	0.59
1:V:527:LYS:HE3	1:j:512:GLY:HA3	1.84	0.59
1:X:536:GLN:HG3	1:l:445:LEU:HD22	1.84	0.59
1:Y:523:MET:HE2	1:Y:523:MET:CA	2.23	0.59
1:Z:247:TRP:NE1	1:Z:676:GLY:O	2.35	0.59
1:Z:512:GLY:HA3	1:t:527:LYS:HE3	1.84	0.59
1:a:256:LEU:HD13	1:5:718:GLY:HA3	1.84	0.59
1:c:279:TRP:CD1	1:c:395:LEU:HD12	2.37	0.59
1:f:256:LEU:HD13	1:i:718:GLY:HA3	1.84	0.59
1:f:536:GLN:HG3	1:y:445:LEU:HD22	1.84	0.59
1:i:715:ASP:OD1	1:i:716:THR:N	2.34	0.59
1:j:247:TRP:NE1	1:j:676:GLY:O	2.35	0.59
1:m:277:THR:HG21	1:m:395:LEU:HD12	1.84	0.59
1:o:247:TRP:NE1	1:o:676:GLY:O	2.35	0.59
1:o:279:TRP:CD1	1:o:395:LEU:HD12	2.37	0.59
1:p:279:TRP:CD1	1:p:395:LEU:HD12	2.37	0.59
1:v:296:TRP:CD1	1:v:300:ILE:HD11	2.36	0.59
1:x:445:LEU:HD22	1:7:536:GLN:HG3	1.84	0.59
1:2:296:TRP:CD1	1:2:300:ILE:HD11	2.36	0.59
1:A:247:TRP:NE1	1:A:676:GLY:O	2.35	0.59
1:A:529:ASP:HB2	1:e:382:ASN:HD21	1.66	0.59
1:B:445:LEU:HD22	1:4:536:GLN:HG3	1.84	0.59
1:E:718:GLY:HA3	1:I:256:LEU:HD13	1.84	0.59
1:F:445:LEU:HD22	1:b:536:GLN:HG3	1.84	0.59
1:G:279:TRP:CD1	1:G:395:LEU:HD12	2.37	0.59
1:G:296:TRP:CD1	1:G:300:ILE:HD11	2.36	0.59
1:G:527:LYS:HE3	1:8:512:GLY:HA3	1.84	0.59
1:H:277:THR:HG21	1:H:395:LEU:HD12	1.84	0.59
1:H:718:GLY:HA3	1:3:256:LEU:HD13	1.84	0.59
1:L:445:LEU:HD22	1:Q:536:GLN:HG3	1.84	0.59
1:P:247:TRP:NE1	1:P:676:GLY:O	2.35	0.59
1:P:279:TRP:CD1	1:P:395:LEU:HD12	2.37	0.59
1:P:512:GLY:HA3	1:p:527:LYS:HE3	1.84	0.59
1:Q:527:LYS:HE3	1:Y:512:GLY:HA3	1.84	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:V:382:ASN:HD21	1:2:529:ASP:HB2	1.67	0.59
1:f:426:HIS:CE1	1:f:607:GLN:HE21	2.17	0.59
1:h:256:LEU:HD13	1:1:718:GLY:HA3	1.84	0.59
1:i:512:GLY:HA3	1:u:527:LYS:HE3	1.84	0.59
1:j:436:PRO:HG3	1:2:378:LEU:HD11	1.82	0.59
1:n:371:MET:HE2	1:q:657:PRO:HB3	1.84	0.59
1:p:718:GLY:HA3	1:5:256:LEU:HD13	1.84	0.59
1:s:349:GLN:HE21	1:s:349:GLN:CA	2.04	0.59
1:t:279:TRP:CD1	1:t:395:LEU:HD12	2.37	0.59
1:u:256:LEU:HD13	1:w:718:GLY:HA3	1.84	0.59
1:v:247:TRP:NE1	1:v:676:GLY:O	2.35	0.59
1:y:715:ASP:OD1	1:y:716:THR:N	2.34	0.59
1:7:247:TRP:NE1	1:7:676:GLY:O	2.35	0.59
1:A:277:THR:HG21	1:A:395:LEU:HD12	1.84	0.59
1:B:256:LEU:HD13	1:a:718:GLY:HA3	1.84	0.59
1:B:718:GLY:HA3	1:M:256:LEU:HD13	1.84	0.59
1:C:445:LEU:HD22	1:5:536:GLN:HG3	1.84	0.59
1:G:277:THR:HG21	1:G:395:LEU:HD12	1.84	0.59
1:I:527:LYS:HE3	1:N:512:GLY:HA3	1.84	0.59
1:K:247:TRP:NE1	1:K:676:GLY:O	2.35	0.59
1:L:512:GLY:HA3	1:Y:527:LYS:HE3	1.84	0.59
1:M:247:TRP:NE1	1:M:676:GLY:O	2.35	0.59
1:N:715:ASP:OD1	1:N:716:THR:N	2.34	0.59
1:Q:445:LEU:HD22	1:Y:536:GLN:HG3	1.84	0.59
1:S:527:LYS:HE3	1:g:512:GLY:HA3	1.85	0.59
1:X:296:TRP:CD1	1:X:300:ILE:HD11	2.36	0.59
1:Y:247:TRP:NE1	1:Y:676:GLY:O	2.35	0.59
1:b:445:LEU:HD22	1:n:536:GLN:HG3	1.84	0.59
1:c:349:GLN:HA	1:c:349:GLN:NE2	2.11	0.59
1:d:279:TRP:CD1	1:d:395:LEU:HD12	2.36	0.59
1:d:536:GLN:HG3	1:f:445:LEU:HD22	1.84	0.59
1:f:718:GLY:HA3	1:2:256:LEU:HD13	1.84	0.59
1:j:279:TRP:CD1	1:j:395:LEU:HD12	2.37	0.59
1:t:718:GLY:HA3	1:x:256:LEU:HD13	1.84	0.59
1:w:247:TRP:NE1	1:w:676:GLY:O	2.35	0.59
1:x:536:GLN:HG3	1:z:445:LEU:HD22	1.84	0.59
1:x:715:ASP:OD1	1:x:716:THR:N	2.34	0.59
1:1:256:LEU:HD13	1:3:718:GLY:HA3	1.84	0.59
1:4:474:SER:HB2	1:6:518:ASN:ND2	2.05	0.59
1:8:247:TRP:NE1	1:8:676:GLY:O	2.35	0.59
1:B:512:GLY:HA3	1:6:527:LYS:HE3	1.84	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:527:LYS:HE3	1:q:512:GLY:HA3	1.83	0.59
1:E:247:TRP:NE1	1:E:676:GLY:O	2.35	0.59
1:F:247:TRP:NE1	1:F:676:GLY:O	2.35	0.59
1:F:715:ASP:OD1	1:F:716:THR:N	2.34	0.59
1:G:718:GLY:HA3	1:Q:256:LEU:HD13	1.84	0.59
1:I:718:GLY:HA3	1:Y:256:LEU:HD13	1.84	0.59
1:J:256:LEU:HD13	1:b:718:GLY:HA3	1.84	0.59
1:J:512:GLY:HA3	1:P:527:LYS:HE3	1.84	0.59
1:J:536:GLN:HG3	1:P:445:LEU:HD22	1.84	0.59
1:N:277:THR:HG21	1:N:395:LEU:HD12	1.84	0.59
1:N:445:LEU:HD22	1:U:536:GLN:HG3	1.84	0.59
1:S:277:THR:HG21	1:S:395:LEU:HD12	1.84	0.59
1:c:277:THR:HG21	1:c:395:LEU:HD12	1.84	0.59
1:g:523:MET:HE2	1:g:523:MET:CA	2.23	0.59
1:h:245:ARG:HD2	1:h:366:PRO:HA	1.82	0.59
1:h:247:TRP:NE1	1:h:676:GLY:O	2.35	0.59
1:i:277:THR:HG21	1:i:395:LEU:HD12	1.84	0.59
1:i:445:LEU:HD22	1:s:536:GLN:HG3	1.84	0.59
1:k:247:TRP:NE1	1:k:676:GLY:O	2.35	0.59
1:n:279:TRP:CD1	1:n:395:LEU:HD12	2.36	0.59
1:o:296:TRP:CD1	1:o:300:ILE:HD11	2.36	0.59
1:o:527:LYS:HE3	1:w:512:GLY:HA3	1.84	0.59
1:t:277:THR:HG21	1:t:395:LEU:HD12	1.84	0.59
1:v:277:THR:HG21	1:v:395:LEU:HD12	1.84	0.59
1:z:512:GLY:HA3	1:7:527:LYS:HE3	1.84	0.59
1:4:247:TRP:NE1	1:4:676:GLY:O	2.35	0.59
1:8:277:THR:HG21	1:8:395:LEU:HD12	1.84	0.59
1:C:512:GLY:HA3	1:r:527:LYS:HE3	1.85	0.59
1:D:247:TRP:NE1	1:D:676:GLY:O	2.35	0.59
1:H:536:GLN:HG3	1:g:445:LEU:HD22	1.84	0.59
1:K:536:GLN:HG3	1:1:445:LEU:HD22	1.84	0.59
1:O:718:GLY:HA3	1:T:256:LEU:HD13	1.84	0.59
1:R:247:TRP:NE1	1:R:676:GLY:O	2.35	0.59
1:T:279:TRP:CD1	1:T:395:LEU:HD12	2.37	0.59
1:U:274:GLY:HA3	1:U:378:LEU:HA	1.85	0.59
1:V:350:LEU:HD22	1:V:395:LEU:HD23	1.69	0.59
1:W:426:HIS:CE1	1:W:607:GLN:HE21	2.17	0.59
1:Z:277:THR:HG21	1:Z:395:LEU:HD12	1.84	0.59
1:d:512:GLY:HA3	1:f:527:LYS:HE3	1.84	0.59
1:e:277:THR:HG21	1:e:395:LEU:HD12	1.84	0.59
1:f:279:TRP:CD1	1:f:395:LEU:HD12	2.37	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:k:316:PHE:HB2	1:k:677:GLN:HB3	1.85	0.59
1:q:247:TRP:NE1	1:q:676:GLY:O	2.35	0.59
1:r:277:THR:HG21	1:r:395:LEU:HD12	1.84	0.59
1:r:349:GLN:HA	1:r:349:GLN:NE2	2.11	0.59
1:u:718:GLY:HA3	1:7:256:LEU:HD13	1.84	0.59
1:y:247:TRP:NE1	1:y:676:GLY:O	2.35	0.59
1:D:316:PHE:HB2	1:D:677:GLN:HB3	1.85	0.59
1:D:512:GLY:HA3	1:T:527:LYS:HE3	1.84	0.59
1:E:277:THR:HG21	1:E:395:LEU:HD12	1.84	0.59
1:F:316:PHE:HB2	1:F:677:GLN:HB3	1.85	0.59
1:G:247:TRP:NE1	1:G:676:GLY:O	2.35	0.59
1:G:523:MET:HE2	1:G:523:MET:CA	2.23	0.59
1:I:536:GLN:HG3	1:U:445:LEU:HD22	1.84	0.59
1:K:277:THR:HG21	1:K:395:LEU:HD12	1.84	0.59
1:L:718:GLY:HA3	1:8:256:LEU:HD13	1.84	0.59
1:M:536:GLN:HG3	1:8:445:LEU:HD22	1.84	0.59
1:P:316:PHE:HB2	1:P:677:GLN:HB3	1.85	0.59
1:Q:296:TRP:CD1	1:Q:300:ILE:HD11	2.36	0.59
1:U:349:GLN:HE21	1:U:349:GLN:CA	2.04	0.59
1:V:247:TRP:NE1	1:V:676:GLY:O	2.35	0.59
1:Y:274:GLY:HA3	1:Y:378:LEU:HA	1.85	0.59
1:Z:445:LEU:HD22	1:h:536:GLN:HG3	1.84	0.59
1:b:279:TRP:CD1	1:b:395:LEU:HD12	2.37	0.59
1:b:527:LYS:HE3	1:n:512:GLY:HA3	1.84	0.59
1:j:277:THR:HG21	1:j:395:LEU:HD12	1.84	0.59
1:m:279:TRP:CD1	1:m:395:LEU:HD12	2.36	0.59
1:p:247:TRP:NE1	1:p:676:GLY:O	2.35	0.59
1:s:445:LEU:HD22	1:u:536:GLN:HG3	1.84	0.59
1:t:247:TRP:NE1	1:t:676:GLY:O	2.35	0.59
1:t:316:PHE:HB2	1:t:677:GLN:HB3	1.85	0.59
1:x:296:TRP:CD1	1:x:300:ILE:HD11	2.36	0.59
1:x:527:LYS:HE3	1:7:512:GLY:HA3	1.84	0.59
1:3:277:THR:HG21	1:3:395:LEU:HD12	1.84	0.59
1:7:523:MET:HE2	1:7:523:MET:CA	2.23	0.59
1:A:382:ASN:HD21	1:3:529:ASP:HB2	1.66	0.59
1:C:527:LYS:HE3	1:5:512:GLY:HA3	1.84	0.59
1:D:536:GLN:HG3	1:T:445:LEU:HD22	1.84	0.59
1:E:274:GLY:HA3	1:E:378:LEU:HA	1.85	0.59
1:E:445:LEU:HD22	1:l:536:GLN:HG3	1.84	0.59
1:E:512:GLY:HA3	1:X:527:LYS:HE3	1.84	0.59
1:F:274:GLY:HA3	1:F:378:LEU:HA	1.85	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:316:PHE:HB2	1:G:677:GLN:HB3	1.85	0.59
1:K:474:SER:HB2	1:W:518:ASN:ND2	2.04	0.59
1:L:274:GLY:HA3	1:L:378:LEU:HA	1.85	0.59
1:N:349:GLN:HA	1:N:349:GLN:NE2	2.11	0.59
1:O:247:TRP:NE1	1:O:676:GLY:O	2.35	0.59
1:O:536:GLN:HG3	1:w:445:LEU:HD22	1.84	0.59
1:Q:247:TRP:NE1	1:Q:676:GLY:O	2.35	0.59
1:S:349:GLN:HA	1:S:349:GLN:NE2	2.10	0.59
1:U:247:TRP:NE1	1:U:676:GLY:O	2.35	0.59
1:U:426:HIS:CE1	1:U:607:GLN:HE21	2.17	0.59
1:U:715:ASP:OD1	1:U:716:THR:N	2.34	0.59
1:W:247:TRP:NE1	1:W:676:GLY:O	2.35	0.59
1:W:274:GLY:HA3	1:W:378:LEU:HA	1.85	0.59
1:W:715:ASP:OD1	1:W:716:THR:N	2.34	0.59
1:X:718:GLY:HA3	1:g:256:LEU:HD13	1.84	0.59
1:Z:256:LEU:HD13	1:z:718:GLY:HA3	1.84	0.59
1:a:274:GLY:HA3	1:a:378:LEU:HA	1.85	0.59
1:a:277:THR:HG21	1:a:395:LEU:HD12	1.84	0.59
1:b:715:ASP:OD1	1:b:716:THR:N	2.34	0.59
1:e:349:GLN:HA	1:e:349:GLN:NE2	2.11	0.59
1:g:316:PHE:HB2	1:g:677:GLN:HB3	1.85	0.59
1:j:527:LYS:HE3	1:2:512:GLY:HA3	1.84	0.59
1:k:512:GLY:HA3	1:m:527:LYS:HE3	1.84	0.59
1:m:247:TRP:NE1	1:m:676:GLY:O	2.35	0.59
1:r:247:TRP:NE1	1:r:676:GLY:O	2.35	0.59
1:s:247:TRP:NE1	1:s:676:GLY:O	2.35	0.59
1:w:277:THR:HG21	1:w:395:LEU:HD12	1.84	0.59
1:x:247:TRP:NE1	1:x:676:GLY:O	2.35	0.59
1:y:274:GLY:HA3	1:y:378:LEU:HA	1.85	0.59
1:z:274:GLY:HA3	1:z:378:LEU:HA	1.85	0.59
1:3:274:GLY:HA3	1:3:378:LEU:HA	1.85	0.59
1:6:247:TRP:NE1	1:6:676:GLY:O	2.35	0.59
1:7:274:GLY:HA3	1:7:378:LEU:HA	1.85	0.59
1:B:527:LYS:HE3	1:4:512:GLY:HA3	1.84	0.59
1:C:256:LEU:HD13	1:o:718:GLY:HA3	1.84	0.59
1:C:277:THR:HG21	1:C:395:LEU:HD12	1.84	0.59
1:C:316:PHE:HB2	1:C:677:GLN:HB3	1.85	0.59
1:C:523:MET:HE2	1:C:523:MET:CA	2.23	0.59
1:D:580:SER:OG	1:q:486:GLN:NE2	2.36	0.59
1:H:274:GLY:HA3	1:H:378:LEU:HA	1.85	0.59
1:M:512:GLY:HA3	1:8:527:LYS:HE3	1.84	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:P:277:THR:HG21	1:P:395:LEU:HD12	1.84	0.59
1:S:316:PHE:HB2	1:S:677:GLN:HB3	1.85	0.59
1:V:256:LEU:HD13	1:h:718:GLY:HA3	1.84	0.59
1:W:277:THR:HG21	1:W:395:LEU:HD12	1.84	0.59
1:W:527:LYS:HE3	1:1:512:GLY:HA3	1.84	0.59
1:Z:527:LYS:HE3	1:h:512:GLY:HA3	1.84	0.59
1:a:247:TRP:NE1	1:a:676:GLY:O	2.35	0.59
1:g:277:THR:HG21	1:g:395:LEU:HD12	1.84	0.59
1:j:316:PHE:HB2	1:j:677:GLN:HB3	1.85	0.59
1:j:445:LEU:HD22	1:2:536:GLN:HG3	1.84	0.59
1:k:536:GLN:HG3	1:m:445:LEU:HD22	1.84	0.59
1:l:247:TRP:NE1	1:l:676:GLY:O	2.35	0.59
1:l:718:GLY:HA3	1:m:256:LEU:HD13	1.84	0.59
1:m:274:GLY:HA3	1:m:378:LEU:HA	1.85	0.59
1:m:426:HIS:CE1	1:m:607:GLN:HE21	2.17	0.59
1:n:426:HIS:CE1	1:n:607:GLN:HE21	2.17	0.59
1:o:529:ASP:HB2	1:w:382:ASN:HD21	1.66	0.59
1:p:350:LEU:HD22	1:p:395:LEU:HD23	1.69	0.59
1:r:316:PHE:HB2	1:r:677:GLN:HB3	1.85	0.59
1:r:378:LEU:HD11	1:5:436:PRO:HG3	1.82	0.59
1:s:274:GLY:HA3	1:s:378:LEU:HA	1.85	0.59
1:t:256:LEU:HD13	1:2:718:GLY:HA3	1.84	0.59
1:t:523:MET:HE2	1:t:523:MET:CA	2.23	0.59
1:3:247:TRP:NE1	1:3:676:GLY:O	2.35	0.59
1:4:277:THR:HG21	1:4:395:LEU:HD12	1.84	0.59
1:6:274:GLY:HA3	1:6:378:LEU:HA	1.85	0.59
1:F:536:GLN:HG3	1:n:445:LEU:HD22	1.84	0.59
1:H:512:GLY:HA3	1:g:527:LYS:HE3	1.84	0.59
1:I:247:TRP:NE1	1:I:676:GLY:O	2.35	0.59
1:M:718:GLY:HA3	1:p:256:LEU:HD13	1.84	0.59
1:Q:349:GLN:HA	1:Q:349:GLN:NE2	2.11	0.59
1:R:512:GLY:HA3	1:k:527:LYS:HE3	1.84	0.59
1:R:536:GLN:HG3	1:k:445:LEU:HD22	1.84	0.59
1:T:274:GLY:HA3	1:T:378:LEU:HA	1.85	0.59
1:T:426:HIS:CE1	1:T:607:GLN:HE21	2.17	0.59
1:a:316:PHE:HB2	1:a:677:GLN:HB3	1.85	0.59
1:d:445:LEU:HD22	1:y:536:GLN:HG3	1.84	0.59
1:s:715:ASP:OD1	1:s:716:THR:N	2.34	0.59
1:w:274:GLY:HA3	1:w:378:LEU:HA	1.85	0.59
1:w:316:PHE:HB2	1:w:677:GLN:HB3	1.85	0.59
1:x:349:GLN:HA	1:x:349:GLN:NE2	2.11	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:y:316:PHE:HB2	1:y:677:GLN:HB3	1.85	0.59
1:6:277:THR:HG21	1:6:395:LEU:HD12	1.84	0.59
1:6:715:ASP:OD1	1:6:716:THR:N	2.34	0.59
1:A:256:LEU:HD13	1:W:718:GLY:HA3	1.84	0.58
1:C:382:ASN:HD21	1:r:529:ASP:HB2	1.67	0.58
1:E:316:PHE:HB2	1:E:677:GLN:HB3	1.85	0.58
1:I:274:GLY:HA3	1:I:378:LEU:HA	1.85	0.58
1:M:518:ASN:ND2	1:8:474:SER:HB2	2.04	0.58
1:N:256:LEU:HD13	1:Q:718:GLY:HA3	1.84	0.58
1:O:715:ASP:OD1	1:O:716:THR:N	2.34	0.58
1:S:247:TRP:NE1	1:S:676:GLY:O	2.35	0.58
1:T:247:TRP:NE1	1:T:676:GLY:O	2.35	0.58
1:X:512:GLY:HA3	1:l:527:LYS:HE3	1.84	0.58
1:Y:718:GLY:HA3	1:e:256:LEU:HD13	1.84	0.58
1:c:256:LEU:HD13	1:7:718:GLY:HA3	1.84	0.58
1:f:715:ASP:OD1	1:f:716:THR:N	2.34	0.58
1:s:426:HIS:CE1	1:s:607:GLN:HE21	2.17	0.58
1:u:247:TRP:NE1	1:u:676:GLY:O	2.35	0.58
1:u:274:GLY:HA3	1:u:378:LEU:HA	1.85	0.58
1:z:277:THR:HG21	1:z:395:LEU:HD12	1.84	0.58
1:5:274:GLY:HA3	1:5:378:LEU:HA	1.85	0.58
1:A:448:THR:HG21	1:e:500:TYR:CE2	2.39	0.58
1:E:382:ASN:HD21	1:X:529:ASP:HB2	1.66	0.58
1:K:316:PHE:HB2	1:K:677:GLN:HB3	1.85	0.58
1:K:512:GLY:HA3	1:1:527:LYS:HE3	1.84	0.58
1:L:277:THR:HG21	1:L:395:LEU:HD12	1.84	0.58
1:O:527:LYS:HE3	1:o:512:GLY:HA3	1.83	0.58
1:P:440:GLN:O	1:P:464:GLN:NE2	2.28	0.58
1:Q:274:GLY:HA3	1:Q:378:LEU:HA	1.85	0.58
1:R:256:LEU:HD13	1:d:718:GLY:HA3	1.84	0.58
1:U:277:THR:HG21	1:U:395:LEU:HD12	1.84	0.58
1:W:316:PHE:HB2	1:W:677:GLN:HB3	1.85	0.58
1:d:247:TRP:NE1	1:d:676:GLY:O	2.35	0.58
1:e:316:PHE:HB2	1:e:677:GLN:HB3	1.85	0.58
1:i:256:LEU:HD13	1:x:718:GLY:HA3	1.84	0.58
1:i:349:GLN:HA	1:i:349:GLN:NE2	2.11	0.58
1:m:715:ASP:OD1	1:m:716:THR:N	2.34	0.58
1:q:349:GLN:HA	1:q:349:GLN:NE2	2.10	0.58
1:s:277:THR:HG21	1:s:395:LEU:HD12	1.84	0.58
1:s:316:PHE:HB2	1:s:677:GLN:HB3	1.85	0.58
1:x:274:GLY:HA3	1:x:378:LEU:HA	1.85	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:3:316:PHE:HB2	1:3:677:GLN:HB3	1.85	0.58
1:4:316:PHE:HB2	1:4:677:GLN:HB3	1.85	0.58
1:6:316:PHE:HB2	1:6:677:GLN:HB3	1.85	0.58
1:B:279:TRP:CD1	1:B:395:LEU:HD12	2.36	0.58
1:C:274:GLY:HA3	1:C:378:LEU:HA	1.85	0.58
1:H:527:LYS:HE3	1:S:512:GLY:HA3	1.84	0.58
1:J:527:LYS:HE3	1:p:512:GLY:HA3	1.84	0.58
1:K:718:GLY:HA3	1:6:256:LEU:HD13	1.84	0.58
1:R:349:GLN:HA	1:R:349:GLN:NE2	2.11	0.58
1:T:715:ASP:OD1	1:T:716:THR:N	2.34	0.58
1:U:316:PHE:HB2	1:U:677:GLN:HB3	1.85	0.58
1:Z:274:GLY:HA3	1:Z:378:LEU:HA	1.85	0.58
1:d:256:LEU:HD13	1:j:718:GLY:HA3	1.84	0.58
1:d:274:GLY:HA3	1:d:378:LEU:HA	1.85	0.58
1:d:426:HIS:CE1	1:d:607:GLN:HE21	2.17	0.58
1:e:440:GLN:O	1:e:464:GLN:NE2	2.28	0.58
1:g:274:GLY:HA3	1:g:378:LEU:HA	1.85	0.58
1:l:715:ASP:OD1	1:l:716:THR:N	2.34	0.58
1:n:247:TRP:NE1	1:n:676:GLY:O	2.35	0.58
1:n:274:GLY:HA3	1:n:378:LEU:HA	1.85	0.58
1:q:426:HIS:CE1	1:q:607:GLN:HE21	2.17	0.58
1:1:279:TRP:CD1	1:1:395:LEU:HD12	2.37	0.58
1:A:246:THR:HG23	1:A:676:GLY:HA2	1.86	0.58
1:C:536:GLN:HG3	1:r:445:LEU:HD22	1.85	0.58
1:H:246:THR:HG23	1:H:676:GLY:HA2	1.86	0.58
1:J:523:MET:HE2	1:J:523:MET:CA	2.23	0.58
1:R:718:GLY:HA3	1:X:256:LEU:HD13	1.84	0.58
1:W:256:LEU:HD13	1:4:718:GLY:HA3	1.84	0.58
1:c:316:PHE:HB2	1:c:677:GLN:HB3	1.85	0.58
1:f:277:THR:HG21	1:f:395:LEU:HD12	1.84	0.58
1:m:316:PHE:HB2	1:m:677:GLN:HB3	1.85	0.58
1:p:246:THR:HG23	1:p:676:GLY:HA2	1.86	0.58
1:p:277:THR:HG21	1:p:395:LEU:HD12	1.84	0.58
1:v:246:THR:HG23	1:v:676:GLY:HA2	1.86	0.58
1:1:277:THR:HG21	1:1:395:LEU:HD12	1.84	0.58
1:1:426:HIS:CE1	1:1:607:GLN:HE21	2.17	0.58
1:8:274:GLY:HA3	1:8:378:LEU:HA	1.85	0.58
1:B:277:THR:HG21	1:B:395:LEU:HD12	1.84	0.58
1:B:426:HIS:CE1	1:B:607:GLN:HE21	2.17	0.58
1:G:445:LEU:HD22	1:8:536:GLN:HG3	1.84	0.58
1:I:277:THR:HG21	1:I:395:LEU:HD12	1.84	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:274:GLY:HA3	1:M:378:LEU:HA	1.85	0.58
1:M:277:THR:HG21	1:M:395:LEU:HD12	1.84	0.58
1:N:246:THR:HG23	1:N:676:GLY:HA2	1.86	0.58
1:N:426:HIS:HE1	1:N:607:GLN:NE2	2.01	0.58
1:R:445:LEU:HD22	1:m:536:GLN:HG3	1.84	0.58
1:S:426:HIS:HE1	1:S:607:GLN:NE2	2.01	0.58
1:T:316:PHE:HB2	1:T:677:GLN:HB3	1.85	0.58
1:T:512:GLY:HA3	1:q:527:LYS:HE3	1.83	0.58
1:V:246:THR:HG23	1:V:676:GLY:HA2	1.86	0.58
1:Z:474:SER:HB2	1:h:518:ASN:ND2	2.04	0.58
1:d:316:PHE:HB2	1:d:677:GLN:HB3	1.85	0.58
1:h:277:THR:HG21	1:h:395:LEU:HD12	1.84	0.58
1:n:316:PHE:HB2	1:n:677:GLN:HB3	1.85	0.58
1:y:277:THR:HG21	1:y:395:LEU:HD12	1.84	0.58
1:5:246:THR:HG23	1:5:676:GLY:HA2	1.86	0.58
1:6:440:GLN:O	1:6:464:GLN:NE2	2.28	0.58
1:8:349:GLN:HA	1:8:349:GLN:NE2	2.10	0.58
1:F:277:THR:HG21	1:F:395:LEU:HD12	1.84	0.58
1:H:316:PHE:HB2	1:H:677:GLN:HB3	1.85	0.58
1:H:715:ASP:OD1	1:H:716:THR:N	2.34	0.58
1:M:523:MET:HE2	1:M:523:MET:CA	2.23	0.58
1:N:316:PHE:HB2	1:N:677:GLN:HB3	1.85	0.58
1:O:277:THR:HG21	1:O:395:LEU:HD12	1.84	0.58
1:P:718:GLY:HA3	1:n:256:LEU:HD13	1.84	0.58
1:S:657:PRO:HB3	1:e:371:MET:HE2	1.86	0.58
1:T:500:TYR:CE2	1:q:448:THR:HG21	2.38	0.58
1:Y:277:THR:HG21	1:Y:395:LEU:HD12	1.84	0.58
1:Z:246:THR:HG23	1:Z:676:GLY:HA2	1.86	0.58
1:Z:316:PHE:HB2	1:Z:677:GLN:HB3	1.85	0.58
1:Z:536:GLN:HG3	1:t:445:LEU:HD22	1.84	0.58
1:c:246:THR:HG23	1:c:676:GLY:HA2	1.86	0.58
1:c:440:GLN:O	1:c:464:GLN:NE2	2.28	0.58
1:d:246:THR:HG23	1:d:676:GLY:HA2	1.86	0.58
1:e:246:THR:HG23	1:e:676:GLY:HA2	1.86	0.58
1:e:445:LEU:HD22	1:3:536:GLN:HG3	1.84	0.58
1:g:718:GLY:HA3	1:j:256:LEU:HD13	1.84	0.58
1:h:274:GLY:HA3	1:h:378:LEU:HA	1.85	0.58
1:i:246:THR:HG23	1:i:676:GLY:HA2	1.86	0.58
1:i:426:HIS:HE1	1:i:607:GLN:NE2	2.01	0.58
1:n:246:THR:HG23	1:n:676:GLY:HA2	1.86	0.58
1:n:277:THR:HG21	1:n:395:LEU:HD12	1.84	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:v:349:GLN:HE21	1:v:349:GLN:CA	2.04	0.58
1:A:274:GLY:HA3	1:A:378:LEU:HA	1.85	0.58
1:C:718:GLY:HA3	1:P:256:LEU:HD13	1.84	0.58
1:G:246:THR:HG23	1:G:676:GLY:HA2	1.86	0.58
1:K:445:LEU:HD22	1:W:536:GLN:HG3	1.84	0.58
1:P:246:THR:HG23	1:P:676:GLY:HA2	1.86	0.58
1:R:426:HIS:CE1	1:R:607:GLN:HE21	2.17	0.58
1:R:527:LYS:HE3	1:m:512:GLY:HA3	1.84	0.58
1:S:445:LEU:HD22	1:g:536:GLN:HG3	1.85	0.58
1:V:277:THR:HG21	1:V:395:LEU:HD12	1.84	0.58
1:V:512:GLY:HA3	1:2:527:LYS:HE3	1.84	0.58
1:W:440:GLN:O	1:W:464:GLN:NE2	2.28	0.58
1:a:246:THR:HG23	1:a:676:GLY:HA2	1.86	0.58
1:a:536:GLN:HG3	1:c:445:LEU:HD22	1.84	0.58
1:b:274:GLY:HA3	1:b:378:LEU:HA	1.85	0.58
1:b:277:THR:HG21	1:b:395:LEU:HD12	1.84	0.58
1:f:274:GLY:HA3	1:f:378:LEU:HA	1.85	0.58
1:i:316:PHE:HB2	1:i:677:GLN:HB3	1.85	0.58
1:k:277:THR:HG21	1:k:395:LEU:HD12	1.84	0.58
1:q:246:THR:HG23	1:q:676:GLY:HA2	1.86	0.58
1:t:246:THR:HG23	1:t:676:GLY:HA2	1.86	0.58
1:t:274:GLY:HA3	1:t:378:LEU:HA	1.85	0.58
1:v:274:GLY:HA3	1:v:378:LEU:HA	1.85	0.58
1:x:316:PHE:HB2	1:x:677:GLN:HB3	1.85	0.58
1:3:246:THR:HG23	1:3:676:GLY:HA2	1.86	0.58
1:8:246:THR:HG23	1:8:676:GLY:HA2	1.86	0.58
1:D:246:THR:HG23	1:D:676:GLY:HA2	1.86	0.58
1:D:274:GLY:HA3	1:D:378:LEU:HA	1.85	0.58
1:G:274:GLY:HA3	1:G:378:LEU:HA	1.85	0.58
1:H:445:LEU:HD22	1:S:536:GLN:HG3	1.84	0.58
1:I:246:THR:HG23	1:I:676:GLY:HA2	1.86	0.58
1:K:274:GLY:HA3	1:K:378:LEU:HA	1.85	0.58
1:O:448:THR:HG21	1:o:500:TYR:CE2	2.39	0.58
1:Q:426:HIS:HE1	1:Q:607:GLN:NE2	2.01	0.58
1:R:246:THR:HG23	1:R:676:GLY:HA2	1.86	0.58
1:V:715:ASP:OD1	1:V:716:THR:N	2.34	0.58
1:X:277:THR:HG21	1:X:395:LEU:HD12	1.84	0.58
1:Z:349:GLN:HA	1:Z:349:GLN:NE2	2.11	0.58
1:d:277:THR:HG21	1:d:395:LEU:HD12	1.84	0.58
1:j:246:THR:HG23	1:j:676:GLY:HA2	1.86	0.58
1:j:274:GLY:HA3	1:j:378:LEU:HA	1.85	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:k:246:THR:HG23	1:k:676:GLY:HA2	1.86	0.58
1:k:274:GLY:HA3	1:k:378:LEU:HA	1.85	0.58
1:l:277:THR:HG21	1:l:395:LEU:HD12	1.84	0.58
1:p:715:ASP:OD1	1:p:716:THR:N	2.34	0.58
1:r:512:GLY:HA3	1:5:527:LYS:HE3	1.84	0.58
1:u:246:THR:HG23	1:u:676:GLY:HA2	1.86	0.58
1:u:277:THR:HG21	1:u:395:LEU:HD12	1.84	0.58
1:4:274:GLY:HA3	1:4:378:LEU:HA	1.85	0.58
1:5:316:PHE:HB2	1:5:677:GLN:HB3	1.85	0.58
1:5:426:HIS:CE1	1:5:607:GLN:HE21	2.17	0.58
1:5:715:ASP:OD1	1:5:716:THR:N	2.34	0.58
1:7:277:THR:HG21	1:7:395:LEU:HD12	1.84	0.58
1:8:316:PHE:HB2	1:8:677:GLN:HB3	1.85	0.58
1:A:445:LEU:HD22	1:e:536:GLN:HG3	1.83	0.58
1:D:277:THR:HG21	1:D:395:LEU:HD12	1.84	0.58
1:G:426:HIS:HE1	1:G:607:GLN:NE2	2.01	0.58
1:H:426:HIS:CE1	1:H:607:GLN:HE21	2.17	0.58
1:J:274:GLY:HA3	1:J:378:LEU:HA	1.85	0.58
1:P:274:GLY:HA3	1:P:378:LEU:HA	1.85	0.58
1:Q:316:PHE:HB2	1:Q:677:GLN:HB3	1.85	0.58
1:V:274:GLY:HA3	1:V:378:LEU:HA	1.85	0.58
1:d:426:HIS:HE1	1:d:607:GLN:NE2	2.01	0.58
1:h:448:THR:HG21	1:t:500:TYR:CE2	2.39	0.58
1:l:246:THR:HG23	1:l:676:GLY:HA2	1.86	0.58
1:x:426:HIS:HE1	1:x:607:GLN:NE2	2.01	0.58
1:x:426:HIS:CE1	1:x:607:GLN:HE21	2.17	0.58
1:1:247:TRP:NE1	1:1:676:GLY:O	2.35	0.58
1:B:247:TRP:NE1	1:B:676:GLY:O	2.35	0.58
1:J:500:TYR:CE2	1:P:448:THR:HG21	2.39	0.58
1:O:246:THR:HG23	1:O:676:GLY:HA2	1.86	0.58
1:Q:426:HIS:CE1	1:Q:607:GLN:HE21	2.17	0.58
1:R:274:GLY:HA3	1:R:378:LEU:HA	1.85	0.58
1:b:246:THR:HG23	1:b:676:GLY:HA2	1.86	0.58
1:b:316:PHE:HB2	1:b:677:GLN:HB3	1.85	0.58
1:c:274:GLY:HA3	1:c:378:LEU:HA	1.85	0.58
1:e:274:GLY:HA3	1:e:378:LEU:HA	1.85	0.58
1:f:246:THR:HG23	1:f:676:GLY:HA2	1.86	0.58
1:o:246:THR:HG23	1:o:676:GLY:HA2	1.86	0.58
1:o:448:THR:HG21	1:w:500:TYR:CE2	2.39	0.58
1:q:274:GLY:HA3	1:q:378:LEU:HA	1.85	0.58
1:r:536:GLN:HG3	1:5:445:LEU:HD22	1.84	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:2:274:GLY:HA3	1:2:378:LEU:HA	1.85	0.58
1:3:426:HIS:HE1	1:3:607:GLN:NE2	2.01	0.58
1:4:445:LEU:HD22	1:6:536:GLN:HG3	1.84	0.58
1:A:349:GLN:HE21	1:A:349:GLN:CA	2.04	0.57
1:A:500:TYR:CE2	1:3:448:THR:HG21	2.39	0.57
1:G:448:THR:HG21	1:8:500:TYR:CE2	2.39	0.57
1:G:500:TYR:CE2	1:M:448:THR:HG21	2.39	0.57
1:Q:277:THR:HG21	1:Q:395:LEU:HD12	1.84	0.57
1:Q:448:THR:HG21	1:Y:500:TYR:CE2	2.39	0.57
1:R:277:THR:HG21	1:R:395:LEU:HD12	1.84	0.57
1:S:580:SER:OG	1:g:486:GLN:NE2	2.37	0.57
1:T:382:ASN:HD21	1:q:529:ASP:HB2	1.69	0.57
1:X:246:THR:HG23	1:X:676:GLY:HA2	1.86	0.57
1:X:500:TYR:CE2	1:l:448:THR:HG21	2.39	0.57
1:a:426:HIS:HE1	1:a:607:GLN:NE2	2.01	0.57
1:e:523:MET:HE2	1:e:523:MET:CA	2.23	0.57
1:f:316:PHE:HB2	1:f:677:GLN:HB3	1.85	0.57
1:g:350:LEU:HD21	1:g:398:PHE:CE2	2.39	0.57
1:h:316:PHE:HB2	1:h:677:GLN:HB3	1.85	0.57
1:o:277:THR:HG21	1:o:395:LEU:HD12	1.84	0.57
1:p:274:GLY:HA3	1:p:378:LEU:HA	1.85	0.57
1:r:510:LEU:HD12	1:5:479:PRO:HB3	1.86	0.57
1:x:448:THR:HG21	1:7:500:TYR:CE2	2.39	0.57
1:1:274:GLY:HA3	1:1:378:LEU:HA	1.85	0.57
1:B:274:GLY:HA3	1:B:378:LEU:HA	1.85	0.57
1:C:350:LEU:HD21	1:C:398:PHE:CE2	2.39	0.57
1:D:589:GLN:HA	1:q:496:ASN:HD22	1.69	0.57
1:N:274:GLY:HA3	1:N:378:LEU:HA	1.85	0.57
1:S:474:SER:HB2	1:g:518:ASN:ND2	2.05	0.57
1:W:350:LEU:HD21	1:W:398:PHE:CE2	2.39	0.57
1:Z:500:TYR:CE2	1:t:448:THR:HG21	2.39	0.57
1:f:500:TYR:CE2	1:y:448:THR:HG21	2.40	0.57
1:h:523:MET:HE2	1:h:523:MET:CA	2.23	0.57
1:q:277:THR:HG21	1:q:395:LEU:HD12	1.84	0.57
1:z:350:LEU:HD21	1:z:398:PHE:CE2	2.40	0.57
1:6:350:LEU:HD21	1:6:398:PHE:CE2	2.39	0.57
1:B:580:SER:OG	1:4:486:GLN:NE2	2.38	0.57
1:C:246:THR:HG23	1:C:676:GLY:HA2	1.86	0.57
1:E:426:HIS:CE1	1:E:607:GLN:HE21	2.17	0.57
1:E:500:TYR:CE2	1:X:448:THR:HG21	2.39	0.57
1:K:486:GLN:NE2	1:1:580:SER:OG	2.38	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:246:THR:HG23	1:L:676:GLY:HA2	1.86	0.57
1:L:350:LEU:HD21	1:L:398:PHE:CE2	2.40	0.57
1:L:426:HIS:CE1	1:L:607:GLN:HE21	2.17	0.57
1:M:316:PHE:HB2	1:M:677:GLN:HB3	1.85	0.57
1:T:246:THR:HG23	1:T:676:GLY:HA2	1.86	0.57
1:U:440:GLN:O	1:U:464:GLN:NE2	2.28	0.57
1:V:448:THR:HG21	1:j:500:TYR:CE2	2.39	0.57
1:V:500:TYR:CE2	1:2:448:THR:HG21	2.40	0.57
1:c:500:TYR:CE2	1:v:448:THR:HG21	2.40	0.57
1:i:274:GLY:HA3	1:i:378:LEU:HA	1.85	0.57
1:n:350:LEU:HD21	1:n:398:PHE:CE2	2.39	0.57
1:r:486:GLN:NE2	1:5:580:SER:OG	2.38	0.57
1:z:246:THR:HG23	1:z:676:GLY:HA2	1.86	0.57
1:3:350:LEU:HD21	1:3:398:PHE:CE2	2.39	0.57
1:A:350:LEU:HD21	1:A:398:PHE:CE2	2.40	0.57
1:F:448:THR:HG21	1:b:500:TYR:CE2	2.40	0.57
1:K:246:THR:HG23	1:K:676:GLY:HA2	1.86	0.57
1:M:350:LEU:HD21	1:M:398:PHE:CE2	2.40	0.57
1:M:500:TYR:CE2	1:8:448:THR:HG21	2.39	0.57
1:T:394:CYS:O	1:T:396:GLU:N	2.38	0.57
1:Y:246:THR:HG23	1:Y:676:GLY:HA2	1.86	0.57
1:a:350:LEU:HD21	1:a:398:PHE:CE2	2.40	0.57
1:a:394:CYS:O	1:a:396:GLU:N	2.38	0.57
1:d:500:TYR:CE2	1:f:448:THR:HG21	2.40	0.57
1:g:246:THR:HG23	1:g:676:GLY:HA2	1.86	0.57
1:j:479:PRO:HB3	1:2:510:LEU:HD12	1.87	0.57
1:o:474:SER:HB2	1:w:518:ASN:ND2	2.04	0.57
1:w:426:HIS:CE1	1:w:607:GLN:HE21	2.17	0.57
1:x:277:THR:HG21	1:x:395:LEU:HD12	1.84	0.57
1:7:246:THR:HG23	1:7:676:GLY:HA2	1.86	0.57
1:8:426:HIS:CE1	1:8:607:GLN:HE21	2.17	0.57
1:D:500:TYR:CE2	1:T:448:THR:HG21	2.39	0.57
1:E:486:GLN:NE2	1:X:580:SER:OG	2.38	0.57
1:F:246:THR:HG23	1:F:676:GLY:HA2	1.86	0.57
1:H:426:HIS:HE1	1:H:607:GLN:NE2	2.01	0.57
1:H:479:PRO:HB3	1:S:510:LEU:HD12	1.87	0.57
1:P:500:TYR:CE2	1:p:448:THR:HG21	2.39	0.57
1:S:350:LEU:HD21	1:S:398:PHE:CE2	2.40	0.57
1:U:350:LEU:HD21	1:U:398:PHE:CE2	2.40	0.57
1:V:536:GLN:HG3	1:2:445:LEU:HD22	1.84	0.57
1:Z:448:THR:HG21	1:h:500:TYR:CE2	2.40	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:c:371:MET:HE2	1:r:657:PRO:HB3	1.87	0.57
1:c:486:GLN:NE2	1:v:580:SER:OG	2.38	0.57
1:c:523:MET:HE2	1:c:523:MET:CA	2.23	0.57
1:c:536:GLN:HG3	1:v:445:LEU:HD22	1.84	0.57
1:d:350:LEU:HD21	1:d:398:PHE:CE2	2.40	0.57
1:h:350:LEU:HD21	1:h:398:PHE:CE2	2.40	0.57
1:k:500:TYR:CE2	1:m:448:THR:HG21	2.39	0.57
1:m:246:THR:HG23	1:m:676:GLY:HA2	1.86	0.57
1:m:394:CYS:O	1:m:396:GLU:N	2.38	0.57
1:q:316:PHE:HB2	1:q:677:GLN:HB3	1.85	0.57
1:r:350:LEU:HD21	1:r:398:PHE:CE2	2.40	0.57
1:s:350:LEU:HD21	1:s:398:PHE:CE2	2.40	0.57
1:v:316:PHE:HB2	1:v:677:GLN:HB3	1.85	0.57
1:v:394:CYS:O	1:v:396:GLU:N	2.38	0.57
1:x:394:CYS:O	1:x:396:GLU:N	2.38	0.57
1:2:246:THR:HG23	1:2:676:GLY:HA2	1.86	0.57
1:3:394:CYS:O	1:3:396:GLU:N	2.38	0.57
1:A:394:CYS:O	1:A:396:GLU:N	2.38	0.57
1:B:316:PHE:HB2	1:B:677:GLN:HB3	1.85	0.57
1:C:486:GLN:NE2	1:r:580:SER:OG	2.37	0.57
1:C:518:ASN:ND2	1:r:474:SER:HB2	2.04	0.57
1:J:316:PHE:HB2	1:J:677:GLN:HB3	1.85	0.57
1:J:445:LEU:HD22	1:p:536:GLN:HG3	1.85	0.57
1:J:657:PRO:HB3	1:b:371:MET:HE2	1.87	0.57
1:M:394:CYS:O	1:M:396:GLU:N	2.38	0.57
1:M:426:HIS:HE1	1:M:607:GLN:NE2	2.01	0.57
1:N:448:THR:HG21	1:U:500:TYR:CE2	2.39	0.57
1:O:500:TYR:CE2	1:w:448:THR:HG21	2.39	0.57
1:Q:394:CYS:O	1:Q:396:GLU:N	2.38	0.57
1:S:479:PRO:HB3	1:g:510:LEU:HD12	1.87	0.57
1:U:394:CYS:O	1:U:396:GLU:N	2.38	0.57
1:V:316:PHE:HB2	1:V:677:GLN:HB3	1.85	0.57
1:W:348:TYR:CD2	1:W:348:TYR:N	2.73	0.57
1:W:394:CYS:O	1:W:396:GLU:N	2.38	0.57
1:X:350:LEU:HD21	1:X:398:PHE:CE2	2.40	0.57
1:Y:348:TYR:N	1:Y:348:TYR:CD2	2.73	0.57
1:Z:394:CYS:O	1:Z:396:GLU:N	2.38	0.57
1:Z:426:HIS:CE1	1:Z:607:GLN:HE21	2.17	0.57
1:a:448:THR:HG21	1:v:500:TYR:CE2	2.39	0.57
1:e:394:CYS:O	1:e:396:GLU:N	2.38	0.57
1:h:394:CYS:O	1:h:396:GLU:N	2.38	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:h:426:HIS:HE1	1:h:607:GLN:NE2	2.01	0.57
1:i:448:THR:HG21	1:s:500:TYR:CE2	2.39	0.57
1:j:394:CYS:O	1:j:396:GLU:N	2.38	0.57
1:j:580:SER:OG	1:2:486:GLN:NE2	2.37	0.57
1:l:274:GLY:HA3	1:l:378:LEU:HA	1.85	0.57
1:o:350:LEU:HD21	1:o:398:PHE:CE2	2.40	0.57
1:p:316:PHE:HB2	1:p:677:GLN:HB3	1.85	0.57
1:s:440:GLN:O	1:s:464:GLN:NE2	2.28	0.57
1:u:350:LEU:HD21	1:u:398:PHE:CE2	2.40	0.57
1:v:350:LEU:HD21	1:v:398:PHE:CE2	2.40	0.57
1:x:486:GLN:NE2	1:z:580:SER:OG	2.38	0.57
1:y:246:THR:HG23	1:y:676:GLY:HA2	1.86	0.57
1:z:426:HIS:CE1	1:z:607:GLN:HE21	2.17	0.57
1:4:246:THR:HG23	1:4:676:GLY:HA2	1.86	0.57
1:5:426:HIS:HE1	1:5:607:GLN:NE2	2.01	0.57
1:6:348:TYR:N	1:6:348:TYR:CD2	2.73	0.57
1:6:394:CYS:O	1:6:396:GLU:N	2.38	0.57
1:A:316:PHE:HB2	1:A:677:GLN:HB3	1.85	0.57
1:C:510:LEU:HD12	1:r:479:PRO:HB3	1.87	0.57
1:E:246:THR:HG23	1:E:676:GLY:HA2	1.86	0.57
1:H:448:THR:HG21	1:S:500:TYR:CE2	2.40	0.57
1:H:580:SER:OG	1:S:486:GLN:NE2	2.38	0.57
1:I:350:LEU:HD21	1:I:398:PHE:CE2	2.40	0.57
1:L:316:PHE:HB2	1:L:677:GLN:HB3	1.85	0.57
1:L:394:CYS:O	1:L:396:GLU:N	2.38	0.57
1:L:580:SER:OG	1:Q:486:GLN:NE2	2.38	0.57
1:N:394:CYS:O	1:N:396:GLU:N	2.38	0.57
1:P:394:CYS:O	1:P:396:GLU:N	2.38	0.57
1:R:316:PHE:HB2	1:R:677:GLN:HB3	1.85	0.57
1:R:500:TYR:CE2	1:k:448:THR:HG21	2.39	0.57
1:W:246:THR:HG23	1:W:676:GLY:HA2	1.86	0.57
1:b:448:THR:HG21	1:n:500:TYR:CE2	2.40	0.57
1:c:394:CYS:O	1:c:396:GLU:N	2.38	0.57
1:i:348:TYR:CD2	1:i:348:TYR:N	2.73	0.57
1:i:394:CYS:O	1:i:396:GLU:N	2.38	0.57
1:k:350:LEU:HD21	1:k:398:PHE:CE2	2.39	0.57
1:n:248:ALA:HB2	1:q:654:PRO:HG3	1.87	0.57
1:n:394:CYS:O	1:n:396:GLU:N	2.38	0.57
1:o:580:SER:OG	1:w:486:GLN:NE2	2.38	0.57
1:s:394:CYS:O	1:s:396:GLU:N	2.38	0.57
1:w:246:THR:HG23	1:w:676:GLY:HA2	1.86	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:z:316:PHE:HB2	1:z:677:GLN:HB3	1.85	0.57
1:z:350:LEU:HD22	1:z:395:LEU:HD23	1.69	0.57
1:2:316:PHE:HB2	1:2:677:GLN:HB3	1.85	0.57
1:5:350:LEU:HD21	1:5:398:PHE:CE2	2.39	0.57
1:6:246:THR:HG23	1:6:676:GLY:HA2	1.86	0.57
1:7:348:TYR:CD2	1:7:348:TYR:N	2.73	0.57
1:8:394:CYS:O	1:8:396:GLU:N	2.38	0.57
1:C:448:THR:HG21	1:5:500:TYR:CE2	2.39	0.57
1:C:549:LYS:HB2	1:r:464:GLN:HB3	1.86	0.57
1:D:445:LEU:HD22	1:q:536:GLN:HG3	1.85	0.57
1:E:448:THR:HG21	1:l:500:TYR:CE2	2.40	0.57
1:F:486:GLN:NE2	1:n:580:SER:OG	2.38	0.57
1:I:316:PHE:HB2	1:I:677:GLN:HB3	1.85	0.57
1:I:394:CYS:O	1:I:396:GLU:N	2.38	0.57
1:J:246:THR:HG23	1:J:676:GLY:HA2	1.86	0.57
1:J:580:SER:OG	1:p:486:GLN:NE2	2.37	0.57
1:M:440:GLN:O	1:M:464:GLN:NE2	2.28	0.57
1:N:348:TYR:CD2	1:N:348:TYR:N	2.73	0.57
1:R:486:GLN:NE2	1:k:580:SER:OG	2.38	0.57
1:R:580:SER:OG	1:m:486:GLN:NE2	2.38	0.57
1:S:464:GLN:HB3	1:g:549:LYS:HB2	1.86	0.57
1:X:426:HIS:HE1	1:X:607:GLN:NE2	2.01	0.57
1:Y:394:CYS:O	1:Y:396:GLU:N	2.38	0.57
1:a:348:TYR:CD2	1:a:348:TYR:N	2.73	0.57
1:b:350:LEU:HD21	1:b:398:PHE:CE2	2.40	0.57
1:b:580:SER:OG	1:n:486:GLN:NE2	2.38	0.57
1:d:394:CYS:O	1:d:396:GLU:N	2.38	0.57
1:d:580:SER:OG	1:y:486:GLN:NE2	2.38	0.57
1:r:246:THR:HG23	1:r:676:GLY:HA2	1.86	0.57
1:u:394:CYS:O	1:u:396:GLU:N	2.38	0.57
1:x:500:TYR:CE2	1:z:448:THR:HG21	2.40	0.57
1:z:394:CYS:O	1:z:396:GLU:N	2.38	0.57
1:1:316:PHE:HB2	1:1:677:GLN:HB3	1.85	0.57
1:2:394:CYS:O	1:2:396:GLU:N	2.38	0.57
1:3:348:TYR:CD2	1:3:348:TYR:N	2.73	0.57
1:7:394:CYS:O	1:7:396:GLU:N	2.38	0.57
1:B:394:CYS:O	1:B:396:GLU:N	2.38	0.57
1:B:464:GLN:HB3	1:4:549:LYS:HB2	1.87	0.57
1:D:350:LEU:HD21	1:D:398:PHE:CE2	2.40	0.57
1:F:394:CYS:O	1:F:396:GLU:N	2.38	0.57
1:H:348:TYR:N	1:H:348:TYR:CD2	2.73	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:350:LEU:HD21	1:H:398:PHE:CE2	2.40	0.57
1:J:394:CYS:O	1:J:396:GLU:N	2.38	0.57
1:K:549:LYS:HB2	1:1:464:GLN:HB3	1.87	0.57
1:K:580:SER:OG	1:W:486:GLN:NE2	2.38	0.57
1:L:350:LEU:HD22	1:L:395:LEU:HD23	1.69	0.57
1:L:426:HIS:HE1	1:L:607:GLN:NE2	2.01	0.57
1:L:448:THR:HG21	1:Q:500:TYR:CE2	2.40	0.57
1:L:500:TYR:CE2	1:Y:448:THR:HG21	2.39	0.57
1:O:274:GLY:HA3	1:O:378:LEU:HA	1.85	0.57
1:R:394:CYS:O	1:R:396:GLU:N	2.38	0.57
1:S:394:CYS:O	1:S:396:GLU:N	2.38	0.57
1:W:448:THR:HG21	1:1:500:TYR:CE2	2.39	0.57
1:X:316:PHE:HB2	1:X:677:GLN:HB3	1.85	0.57
1:X:486:GLN:NE2	1:l:580:SER:OG	2.38	0.57
1:Z:580:SER:OG	1:h:486:GLN:NE2	2.38	0.57
1:c:549:LYS:HB2	1:v:464:GLN:HB3	1.87	0.57
1:i:350:LEU:HD21	1:i:398:PHE:CE2	2.40	0.57
1:j:448:THR:HG21	1:2:500:TYR:CE2	2.40	0.57
1:k:486:GLN:NE2	1:m:580:SER:OG	2.38	0.57
1:o:316:PHE:HB2	1:o:677:GLN:HB3	1.85	0.57
1:p:348:TYR:N	1:p:348:TYR:CD2	2.73	0.57
1:p:440:GLN:O	1:p:464:GLN:NE2	2.28	0.57
1:r:394:CYS:O	1:r:396:GLU:N	2.38	0.57
1:u:316:PHE:HB2	1:u:677:GLN:HB3	1.85	0.57
1:y:394:CYS:O	1:y:396:GLU:N	2.38	0.57
1:z:500:TYR:CE2	1:7:448:THR:HG21	2.39	0.57
1:2:348:TYR:N	1:2:348:TYR:CD2	2.73	0.57
1:4:580:SER:OG	1:6:486:GLN:NE2	2.38	0.57
1:5:348:TYR:N	1:5:348:TYR:CD2	2.73	0.57
1:B:500:TYR:CE2	1:6:448:THR:HG21	2.40	0.57
1:C:500:TYR:CE2	1:r:448:THR:HG21	2.40	0.57
1:F:350:LEU:HD21	1:F:398:PHE:CE2	2.39	0.57
1:H:500:TYR:CE2	1:g:448:THR:HG21	2.39	0.57
1:J:348:TYR:CD2	1:J:348:TYR:N	2.73	0.57
1:M:348:TYR:N	1:M:348:TYR:CD2	2.73	0.57
1:M:486:GLN:NE2	1:8:580:SER:OG	2.38	0.57
1:N:350:LEU:HD21	1:N:398:PHE:CE2	2.40	0.57
1:O:394:CYS:O	1:O:396:GLU:N	2.38	0.57
1:O:580:SER:OG	1:o:486:GLN:NE2	2.38	0.57
1:R:350:LEU:HD21	1:R:398:PHE:CE2	2.40	0.57
1:V:394:CYS:O	1:V:396:GLU:N	2.38	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:X:274:GLY:HA3	1:X:378:LEU:HA	1.85	0.57
1:f:350:LEU:HD21	1:f:398:PHE:CE2	2.40	0.57
1:h:348:TYR:N	1:h:348:TYR:CD2	2.73	0.57
1:o:274:GLY:HA3	1:o:378:LEU:HA	1.85	0.57
1:o:426:HIS:HE1	1:o:607:GLN:NE2	2.01	0.57
1:q:350:LEU:HD21	1:q:398:PHE:CE2	2.40	0.57
1:q:394:CYS:O	1:q:396:GLU:N	2.38	0.57
1:r:500:TYR:CE2	1:5:448:THR:HG21	2.40	0.57
1:y:350:LEU:HD21	1:y:398:PHE:CE2	2.40	0.57
1:1:350:LEU:HD21	1:1:398:PHE:CE2	2.40	0.57
1:1:394:CYS:O	1:1:396:GLU:N	2.38	0.57
1:3:426:HIS:CE1	1:3:607:GLN:HE21	2.17	0.57
1:B:350:LEU:HD21	1:B:398:PHE:CE2	2.40	0.56
1:B:448:THR:HG21	1:4:500:TYR:CE2	2.40	0.56
1:E:350:LEU:HD21	1:E:398:PHE:CE2	2.40	0.56
1:G:486:GLN:NE2	1:M:580:SER:OG	2.38	0.56
1:I:500:TYR:CE2	1:U:448:THR:HG21	2.40	0.56
1:J:479:PRO:HB3	1:p:510:LEU:HD12	1.87	0.56
1:N:371:MET:HE2	1:b:657:PRO:HB3	1.87	0.56
1:P:350:LEU:HD21	1:P:398:PHE:CE2	2.40	0.56
1:R:549:LYS:HB2	1:k:464:GLN:HB3	1.87	0.56
1:S:246:THR:HG23	1:S:676:GLY:HA2	1.86	0.56
1:T:350:LEU:HD21	1:T:398:PHE:CE2	2.39	0.56
1:V:348:TYR:CD2	1:V:348:TYR:N	2.73	0.56
1:V:510:LEU:HD12	1:2:479:PRO:HB3	1.87	0.56
1:Z:350:LEU:HD21	1:Z:398:PHE:CE2	2.39	0.56
1:a:464:GLN:HB3	1:v:549:LYS:HB2	1.87	0.56
1:d:486:GLN:NE2	1:f:580:SER:OG	2.38	0.56
1:e:350:LEU:HD21	1:e:398:PHE:CE2	2.40	0.56
1:f:348:TYR:CD2	1:f:348:TYR:N	2.73	0.56
1:f:486:GLN:NE2	1:y:580:SER:OG	2.38	0.56
1:f:657:PRO:HB3	1:i:371:MET:HE2	1.87	0.56
1:h:580:SER:OG	1:t:486:GLN:NE2	2.38	0.56
1:j:350:LEU:HD21	1:j:398:PHE:CE2	2.39	0.56
1:l:394:CYS:O	1:l:396:GLU:N	2.38	0.56
1:n:523:MET:HE2	1:n:523:MET:CA	2.23	0.56
1:p:394:CYS:O	1:p:396:GLU:N	2.38	0.56
1:w:350:LEU:HD21	1:w:398:PHE:CE2	2.40	0.56
1:z:426:HIS:HE1	1:z:607:GLN:NE2	2.01	0.56
1:D:394:CYS:O	1:D:396:GLU:N	2.38	0.56
1:D:523:MET:HE2	1:D:523:MET:CA	2.23	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:464:GLN:HB3	1:b:549:LYS:HB2	1.87	0.56
1:F:580:SER:OG	1:b:486:GLN:NE2	2.38	0.56
1:J:448:THR:HG21	1:p:500:TYR:CE2	2.40	0.56
1:K:350:LEU:HD21	1:K:398:PHE:CE2	2.39	0.56
1:K:500:TYR:CE2	1:1:448:THR:HG21	2.40	0.56
1:O:316:PHE:HB2	1:O:677:GLN:HB3	1.85	0.56
1:R:309:LYS:CG	1:R:685:GLU:HG2	2.36	0.56
1:V:440:GLN:O	1:V:464:GLN:NE2	2.28	0.56
1:Y:350:LEU:HD21	1:Y:398:PHE:CE2	2.40	0.56
1:Y:426:HIS:HE1	1:Y:607:GLN:NE2	2.01	0.56
1:Z:348:TYR:CD2	1:Z:348:TYR:N	2.73	0.56
1:Z:486:GLN:NE2	1:t:580:SER:OG	2.38	0.56
1:c:350:LEU:HD21	1:c:398:PHE:CE2	2.40	0.56
1:d:448:THR:HG21	1:y:500:TYR:CE2	2.39	0.56
1:e:580:SER:OG	1:3:486:GLN:NE2	2.38	0.56
1:f:394:CYS:O	1:f:396:GLU:N	2.38	0.56
1:f:549:LYS:HB2	1:y:464:GLN:HB3	1.87	0.56
1:j:589:GLN:HA	1:2:496:ASN:HD22	1.70	0.56
1:k:394:CYS:O	1:k:396:GLU:N	2.38	0.56
1:m:350:LEU:HD21	1:m:398:PHE:CE2	2.40	0.56
1:r:274:GLY:HA3	1:r:378:LEU:HA	1.85	0.56
1:r:549:LYS:HB2	1:5:464:GLN:HB3	1.87	0.56
1:s:448:THR:HG21	1:u:500:TYR:CE2	2.40	0.56
1:s:580:SER:OG	1:u:486:GLN:NE2	2.38	0.56
1:t:349:GLN:HE21	1:t:349:GLN:CA	2.04	0.56
1:v:309:LYS:CG	1:v:685:GLU:HG2	2.36	0.56
1:x:350:LEU:HD21	1:x:398:PHE:CE2	2.40	0.56
1:2:350:LEU:HD21	1:2:398:PHE:CE2	2.40	0.56
1:4:350:LEU:HD21	1:4:398:PHE:CE2	2.39	0.56
1:8:348:TYR:CD2	1:8:348:TYR:N	2.73	0.56
1:A:309:LYS:CG	1:A:685:GLU:HG2	2.36	0.56
1:A:580:SER:OG	1:e:486:GLN:NE2	2.39	0.56
1:B:486:GLN:NE2	1:6:580:SER:OG	2.38	0.56
1:C:348:TYR:CD2	1:C:348:TYR:N	2.73	0.56
1:D:448:THR:HG21	1:q:500:TYR:CE2	2.40	0.56
1:D:486:GLN:NE2	1:T:580:SER:OG	2.38	0.56
1:E:348:TYR:N	1:E:348:TYR:CD2	2.73	0.56
1:F:348:TYR:CD2	1:F:348:TYR:N	2.73	0.56
1:F:479:PRO:HB3	1:b:510:LEU:HD12	1.87	0.56
1:F:500:TYR:CE2	1:n:448:THR:HG21	2.40	0.56
1:G:350:LEU:HD21	1:G:398:PHE:CE2	2.40	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:510:LEU:HD12	1:M:479:PRO:HB3	1.88	0.56
1:G:580:SER:OG	1:8:486:GLN:NE2	2.38	0.56
1:H:464:GLN:HB3	1:S:549:LYS:HB2	1.87	0.56
1:I:448:THR:HG21	1:N:500:TYR:CE2	2.39	0.56
1:I:486:GLN:NE2	1:U:580:SER:OG	2.38	0.56
1:J:350:LEU:HD21	1:J:398:PHE:CE2	2.39	0.56
1:J:486:GLN:NE2	1:P:580:SER:OG	2.38	0.56
1:J:510:LEU:HD12	1:P:479:PRO:HB3	1.87	0.56
1:K:510:LEU:HD12	1:1:479:PRO:HB3	1.87	0.56
1:L:464:GLN:HB3	1:Q:549:LYS:HB2	1.87	0.56
1:L:549:LYS:HB2	1:Y:464:GLN:HB3	1.87	0.56
1:M:246:THR:HG23	1:M:676:GLY:HA2	1.86	0.56
1:M:549:LYS:HB2	1:8:464:GLN:HB3	1.88	0.56
1:N:309:LYS:CG	1:N:685:GLU:HG2	2.36	0.56
1:O:309:LYS:CG	1:O:685:GLU:HG2	2.36	0.56
1:O:371:MET:HE2	1:T:657:PRO:HB3	1.87	0.56
1:P:309:LYS:CG	1:P:685:GLU:HG2	2.36	0.56
1:P:348:TYR:N	1:P:348:TYR:CD2	2.73	0.56
1:Q:350:LEU:HD21	1:Q:398:PHE:CE2	2.40	0.56
1:Q:580:SER:OG	1:Y:486:GLN:NE2	2.38	0.56
1:S:589:GLN:HA	1:g:496:ASN:HD22	1.70	0.56
1:T:348:TYR:N	1:T:348:TYR:CD2	2.73	0.56
1:W:580:SER:OG	1:1:486:GLN:NE2	2.38	0.56
1:X:348:TYR:N	1:X:348:TYR:CD2	2.73	0.56
1:Y:316:PHE:HB2	1:Y:677:GLN:HB3	1.85	0.56
1:Z:464:GLN:HB3	1:h:549:LYS:HB2	1.87	0.56
1:a:426:HIS:CE1	1:a:607:GLN:HE21	2.17	0.56
1:a:479:PRO:HB3	1:v:510:LEU:HD12	1.88	0.56
1:a:486:GLN:NE2	1:c:580:SER:OG	2.38	0.56
1:a:500:TYR:CE2	1:c:448:THR:HG21	2.40	0.56
1:a:549:LYS:HB2	1:c:464:GLN:HB3	1.87	0.56
1:a:657:PRO:HB3	1:5:371:MET:HE2	1.87	0.56
1:b:348:TYR:CD2	1:b:348:TYR:N	2.73	0.56
1:b:394:CYS:O	1:b:396:GLU:N	2.38	0.56
1:d:479:PRO:HB3	1:y:510:LEU:HD12	1.88	0.56
1:e:448:THR:HG21	1:3:500:TYR:CE2	2.40	0.56
1:e:464:GLN:HB3	1:3:549:LYS:HB2	1.87	0.56
1:g:348:TYR:N	1:g:348:TYR:CD2	2.73	0.56
1:g:371:MET:HE2	1:j:657:PRO:HB3	1.88	0.56
1:g:426:HIS:HE1	1:g:607:GLN:NE2	2.01	0.56
1:h:246:THR:HG23	1:h:676:GLY:HA2	1.86	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:h:440:GLN:O	1:h:464:GLN:NE2	2.28	0.56
1:i:309:LYS:CG	1:i:685:GLU:HG2	2.36	0.56
1:i:464:GLN:HB3	1:s:549:LYS:HB2	1.87	0.56
1:i:486:GLN:NE2	1:u:580:SER:OG	2.38	0.56
1:j:309:LYS:CG	1:j:685:GLU:HG2	2.36	0.56
1:j:348:TYR:CD2	1:j:348:TYR:N	2.73	0.56
1:k:523:MET:HE2	1:k:523:MET:CA	2.23	0.56
1:l:309:LYS:CG	1:l:685:GLU:HG2	2.36	0.56
1:l:316:PHE:HB2	1:l:677:GLN:HB3	1.85	0.56
1:o:348:TYR:N	1:o:348:TYR:CD2	2.73	0.56
1:o:394:CYS:O	1:o:396:GLU:N	2.38	0.56
1:q:309:LYS:CG	1:q:685:GLU:HG2	2.36	0.56
1:r:309:LYS:CG	1:r:685:GLU:HG2	2.36	0.56
1:s:246:THR:HG23	1:s:676:GLY:HA2	1.86	0.56
1:s:348:TYR:N	1:s:348:TYR:CD2	2.73	0.56
1:t:350:LEU:HD21	1:t:398:PHE:CE2	2.40	0.56
1:t:394:CYS:O	1:t:396:GLU:N	2.38	0.56
1:u:426:HIS:CE1	1:u:607:GLN:HE21	2.17	0.56
1:x:580:SER:OG	1:7:486:GLN:NE2	2.38	0.56
1:y:348:TYR:CD2	1:y:348:TYR:N	2.73	0.56
1:z:549:LYS:HB2	1:7:464:GLN:HB3	1.87	0.56
1:2:440:GLN:O	1:2:464:GLN:NE2	2.28	0.56
1:4:348:TYR:CD2	1:4:348:TYR:N	2.73	0.56
1:4:448:THR:HG21	1:6:500:TYR:CE2	2.39	0.56
1:7:316:PHE:HB2	1:7:677:GLN:HB3	1.85	0.56
1:7:350:LEU:HD21	1:7:398:PHE:CE2	2.40	0.56
1:7:426:HIS:HE1	1:7:607:GLN:NE2	2.01	0.56
1:8:350:LEU:HD21	1:8:398:PHE:CE2	2.40	0.56
1:A:464:GLN:HB3	1:e:549:LYS:HB2	1.88	0.56
1:B:348:TYR:N	1:B:348:TYR:CD2	2.73	0.56
1:B:371:MET:HE2	1:M:657:PRO:HB3	1.88	0.56
1:B:479:PRO:HB3	1:4:510:LEU:HD12	1.88	0.56
1:C:371:MET:HE2	1:P:657:PRO:HB3	1.88	0.56
1:C:426:HIS:HE1	1:C:607:GLN:NE2	2.01	0.56
1:D:464:GLN:HB3	1:q:549:LYS:HB2	1.88	0.56
1:D:510:LEU:HD12	1:T:479:PRO:HB3	1.88	0.56
1:F:510:LEU:HD12	1:n:479:PRO:HB3	1.88	0.56
1:G:309:LYS:CG	1:G:685:GLU:HG2	2.35	0.56
1:G:549:LYS:HB2	1:M:464:GLN:HB3	1.88	0.56
1:H:371:MET:HE2	1:3:657:PRO:HB3	1.88	0.56
1:I:580:SER:OG	1:N:486:GLN:NE2	2.38	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:309:LYS:CG	1:J:685:GLU:HG2	2.36	0.56
1:J:440:GLN:O	1:J:464:GLN:NE2	2.28	0.56
1:K:348:TYR:CD2	1:K:348:TYR:N	2.73	0.56
1:K:394:CYS:O	1:K:396:GLU:N	2.38	0.56
1:K:448:THR:HG21	1:W:500:TYR:CE2	2.39	0.56
1:N:464:GLN:HB3	1:U:549:LYS:HB2	1.87	0.56
1:N:580:SER:OG	1:U:486:GLN:NE2	2.38	0.56
1:P:549:LYS:HB2	1:p:464:GLN:HB3	1.88	0.56
1:R:448:THR:HG21	1:m:500:TYR:CE2	2.40	0.56
1:S:274:GLY:HA3	1:S:378:LEU:HA	1.85	0.56
1:S:309:LYS:CG	1:S:685:GLU:HG2	2.36	0.56
1:U:246:THR:HG23	1:U:676:GLY:HA2	1.86	0.56
1:U:348:TYR:N	1:U:348:TYR:CD2	2.73	0.56
1:V:486:GLN:NE2	1:2:580:SER:OG	2.38	0.56
1:X:394:CYS:O	1:X:396:GLU:N	2.38	0.56
1:d:510:LEU:HD12	1:f:479:PRO:HB3	1.87	0.56
1:e:348:TYR:CD2	1:e:348:TYR:N	2.73	0.56
1:f:371:MET:HE2	1:2:657:PRO:HB3	1.88	0.56
1:f:510:LEU:HD12	1:y:479:PRO:HB3	1.87	0.56
1:i:500:TYR:CE2	1:u:448:THR:HG21	2.39	0.56
1:i:580:SER:OG	1:s:486:GLN:NE2	2.38	0.56
1:k:510:LEU:HD12	1:m:479:PRO:HB3	1.88	0.56
1:l:350:LEU:HD21	1:l:398:PHE:CE2	2.40	0.56
1:m:348:TYR:CD2	1:m:348:TYR:N	2.73	0.56
1:s:309:LYS:CG	1:s:685:GLU:HG2	2.36	0.56
1:w:348:TYR:N	1:w:348:TYR:CD2	2.73	0.56
1:x:246:THR:HG23	1:x:676:GLY:HA2	1.86	0.56
1:x:348:TYR:N	1:x:348:TYR:CD2	2.73	0.56
1:2:309:LYS:CG	1:2:685:GLU:HG2	2.36	0.56
1:4:394:CYS:O	1:4:396:GLU:N	2.38	0.56
1:4:479:PRO:HB3	1:6:510:LEU:HD12	1.88	0.56
1:A:510:LEU:HD12	1:3:479:PRO:HB3	1.88	0.56
1:C:309:LYS:CG	1:C:685:GLU:HG2	2.36	0.56
1:C:464:GLN:HB3	1:5:549:LYS:HB2	1.88	0.56
1:D:713:THR:HA	1:F:392:PHE:CE2	2.41	0.56
1:E:479:PRO:HB3	1:l:510:LEU:HD12	1.88	0.56
1:E:580:SER:OG	1:l:486:GLN:NE2	2.38	0.56
1:G:394:CYS:O	1:G:396:GLU:N	2.38	0.56
1:G:479:PRO:HB3	1:8:510:LEU:HD12	1.88	0.56
1:I:510:LEU:HD12	1:U:479:PRO:HB3	1.88	0.56
1:O:486:GLN:NE2	1:w:580:SER:OG	2.38	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:O:510:LEU:HD12	1:w:479:PRO:HB3	1.88	0.56
1:P:486:GLN:NE2	1:p:580:SER:OG	2.38	0.56
1:Q:246:THR:HG23	1:Q:676:GLY:HA2	1.86	0.56
1:Q:348:TYR:N	1:Q:348:TYR:CD2	2.73	0.56
1:R:371:MET:HE2	1:X:657:PRO:HB3	1.88	0.56
1:U:309:LYS:CG	1:U:685:GLU:HG2	2.36	0.56
1:V:464:GLN:HB3	1:j:549:LYS:HB2	1.88	0.56
1:b:479:PRO:HB3	1:n:510:LEU:HD12	1.87	0.56
1:c:348:TYR:N	1:c:348:TYR:CD2	2.73	0.56
1:d:392:PHE:CE2	1:j:713:THR:HA	2.41	0.56
1:d:464:GLN:HB3	1:y:549:LYS:HB2	1.87	0.56
1:d:523:MET:HE2	1:d:523:MET:CA	2.23	0.56
1:d:657:PRO:HB3	1:j:371:MET:HE2	1.88	0.56
1:h:464:GLN:HB3	1:t:549:LYS:HB2	1.88	0.56
1:h:479:PRO:HB3	1:t:510:LEU:HD12	1.88	0.56
1:k:713:THR:HA	1:y:392:PHE:CE2	2.41	0.56
1:n:348:TYR:CD2	1:n:348:TYR:N	2.73	0.56
1:n:440:GLN:O	1:n:464:GLN:NE2	2.28	0.56
1:o:657:PRO:HB3	1:q:371:MET:HE2	1.88	0.56
1:s:479:PRO:HB3	1:u:510:LEU:HD12	1.88	0.56
1:v:392:PHE:CE2	1:6:713:THR:HA	2.41	0.56
1:x:549:LYS:HB2	1:z:464:GLN:HB3	1.87	0.56
1:1:348:TYR:N	1:1:348:TYR:CD2	2.73	0.56
1:6:309:LYS:CG	1:6:685:GLU:HG2	2.36	0.56
1:D:657:PRO:HB3	1:m:371:MET:HE2	1.87	0.56
1:H:549:LYS:HB2	1:g:464:GLN:HB3	1.88	0.56
1:K:479:PRO:HB3	1:W:510:LEU:HD12	1.88	0.56
1:N:426:HIS:CE1	1:N:607:GLN:HE21	2.17	0.56
1:P:371:MET:HE2	1:n:657:PRO:HB3	1.88	0.56
1:P:713:THR:HA	1:n:392:PHE:CE2	2.41	0.56
1:S:448:THR:HG21	1:g:500:TYR:CE2	2.41	0.56
1:W:309:LYS:CG	1:W:685:GLU:HG2	2.36	0.56
1:Y:371:MET:HE2	1:e:657:PRO:HB3	1.87	0.56
1:Z:510:LEU:HD12	1:t:479:PRO:HB3	1.88	0.56
1:d:309:LYS:CG	1:d:685:GLU:HG2	2.36	0.56
1:d:348:TYR:N	1:d:348:TYR:CD2	2.73	0.56
1:g:309:LYS:CG	1:g:685:GLU:HG2	2.36	0.56
1:h:657:PRO:HB3	1:1:371:MET:HE2	1.88	0.56
1:l:371:MET:HE2	1:m:657:PRO:HB3	1.88	0.56
1:t:309:LYS:CG	1:t:685:GLU:HG2	2.36	0.56
1:y:309:LYS:CG	1:y:685:GLU:HG2	2.36	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:549:LYS:HB2	1:3:464:GLN:HB3	1.88	0.56
1:B:246:THR:HG23	1:B:676:GLY:HA2	1.86	0.56
1:B:296:TRP:O	1:B:300:ILE:HD12	2.06	0.56
1:C:496:ASN:HD22	1:r:589:GLN:HA	1.71	0.56
1:D:348:TYR:CD2	1:D:348:TYR:N	2.73	0.56
1:D:426:HIS:HE1	1:D:607:GLN:NE2	2.01	0.56
1:E:296:TRP:O	1:E:300:ILE:HD12	2.06	0.56
1:E:309:LYS:CG	1:E:685:GLU:HG2	2.36	0.56
1:F:549:LYS:HB2	1:n:464:GLN:HB3	1.87	0.56
1:O:348:TYR:CD2	1:O:348:TYR:N	2.73	0.56
1:O:350:LEU:HD21	1:O:398:PHE:CE2	2.40	0.56
1:V:309:LYS:CG	1:V:685:GLU:HG2	2.36	0.56
1:V:580:SER:OG	1:j:486:GLN:NE2	2.38	0.56
1:X:549:LYS:HB2	1:l:464:GLN:HB3	1.87	0.56
1:c:657:PRO:HB3	1:7:371:MET:HE2	1.87	0.56
1:k:426:HIS:HE1	1:k:607:GLN:NE2	2.01	0.56
1:l:426:HIS:CE1	1:l:607:GLN:HE21	2.17	0.56
1:u:348:TYR:CD2	1:u:348:TYR:N	2.73	0.56
1:v:348:TYR:CD2	1:v:348:TYR:N	2.73	0.56
1:w:309:LYS:CG	1:w:685:GLU:HG2	2.36	0.56
1:z:296:TRP:O	1:z:300:ILE:HD12	2.06	0.56
1:1:296:TRP:O	1:1:300:ILE:HD12	2.06	0.56
1:A:348:TYR:N	1:A:348:TYR:CD2	2.73	0.56
1:A:392:PHE:CE2	1:W:713:THR:HA	2.41	0.56
1:B:549:LYS:HB2	1:6:464:GLN:HB3	1.87	0.56
1:D:549:LYS:HB2	1:T:464:GLN:HB3	1.88	0.56
1:E:394:CYS:O	1:E:396:GLU:N	2.38	0.56
1:F:309:LYS:CG	1:F:685:GLU:HG2	2.36	0.56
1:F:496:ASN:HD22	1:n:589:GLN:HA	1.71	0.56
1:H:486:GLN:NE2	1:g:580:SER:OG	2.38	0.56
1:H:510:LEU:HD12	1:g:479:PRO:HB3	1.88	0.56
1:I:348:TYR:N	1:I:348:TYR:CD2	2.73	0.56
1:L:296:TRP:O	1:L:300:ILE:HD12	2.06	0.56
1:W:464:GLN:HB3	1:1:549:LYS:HB2	1.87	0.56
1:X:296:TRP:O	1:X:300:ILE:HD12	2.06	0.56
1:a:580:SER:OG	1:v:486:GLN:NE2	2.38	0.56
1:c:426:HIS:HE1	1:c:607:GLN:NE2	2.01	0.56
1:d:440:GLN:O	1:d:464:GLN:NE2	2.28	0.56
1:e:426:HIS:HE1	1:e:607:GLN:NE2	2.01	0.56
1:i:426:HIS:CE1	1:i:607:GLN:HE21	2.17	0.56
1:j:296:TRP:O	1:j:300:ILE:HD12	2.06	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:k:348:TYR:CD2	1:k:348:TYR:N	2.73	0.56
1:n:309:LYS:CG	1:n:685:GLU:HG2	2.36	0.56
1:o:296:TRP:O	1:o:300:ILE:HD12	2.06	0.56
1:p:309:LYS:CG	1:p:685:GLU:HG2	2.36	0.56
1:u:713:THR:HA	1:7:392:PHE:CE2	2.41	0.56
1:v:657:PRO:HB3	1:6:371:MET:HE2	1.87	0.56
1:w:296:TRP:O	1:w:300:ILE:HD12	2.06	0.56
1:x:510:LEU:HD12	1:z:479:PRO:HB3	1.87	0.56
1:1:246:THR:HG23	1:1:676:GLY:HA2	1.86	0.56
1:7:426:HIS:CE1	1:7:607:GLN:HE21	2.17	0.56
1:A:486:GLN:NE2	1:3:580:SER:OG	2.38	0.56
1:B:309:LYS:CG	1:B:685:GLU:HG2	2.36	0.56
1:G:392:PHE:CE2	1:J:713:THR:HA	2.41	0.56
1:I:713:THR:HA	1:Y:392:PHE:CE2	2.41	0.56
1:K:296:TRP:O	1:K:300:ILE:HD12	2.06	0.56
1:L:479:PRO:HB3	1:Q:510:LEU:HD12	1.88	0.56
1:L:510:LEU:HD12	1:Y:479:PRO:HB3	1.87	0.56
1:O:464:GLN:HB3	1:o:549:LYS:HB2	1.88	0.56
1:P:296:TRP:O	1:P:300:ILE:HD12	2.06	0.56
1:S:348:TYR:CD2	1:S:348:TYR:N	2.73	0.56
1:W:657:PRO:HB3	1:4:371:MET:HE2	1.88	0.56
1:Y:426:HIS:CE1	1:Y:607:GLN:HE21	2.17	0.56
1:b:296:TRP:O	1:b:300:ILE:HD12	2.06	0.56
1:b:464:GLN:HB3	1:n:549:LYS:HB2	1.87	0.56
1:f:296:TRP:O	1:f:300:ILE:HD12	2.06	0.56
1:g:394:CYS:O	1:g:396:GLU:N	2.38	0.56
1:k:549:LYS:HB2	1:m:464:GLN:HB3	1.88	0.56
1:l:296:TRP:O	1:l:300:ILE:HD12	2.06	0.56
1:p:713:THR:HA	1:5:392:PHE:CE2	2.41	0.56
1:r:348:TYR:CD2	1:r:348:TYR:N	2.73	0.56
1:r:496:ASN:HD22	1:5:589:GLN:HA	1.71	0.56
1:w:394:CYS:O	1:w:396:GLU:N	2.38	0.56
1:x:464:GLN:HB3	1:7:549:LYS:HB2	1.88	0.56
1:1:309:LYS:CG	1:1:685:GLU:HG2	2.36	0.56
1:4:296:TRP:O	1:4:300:ILE:HD12	2.06	0.56
1:5:394:CYS:O	1:5:396:GLU:N	2.38	0.56
1:A:296:TRP:O	1:A:300:ILE:HD12	2.06	0.56
1:C:479:PRO:HB3	1:5:510:LEU:HD12	1.88	0.56
1:C:580:SER:OG	1:5:486:GLN:NE2	2.38	0.56
1:C:657:PRO:HB3	1:o:371:MET:HE2	1.88	0.56
1:H:392:PHE:CE2	1:V:713:THR:HA	2.41	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:296:TRP:O	1:J:300:ILE:HD12	2.06	0.56
1:M:296:TRP:O	1:M:300:ILE:HD12	2.06	0.56
1:N:713:THR:HA	1:b:392:PHE:CE2	2.41	0.56
1:O:296:TRP:O	1:O:300:ILE:HD12	2.06	0.56
1:O:426:HIS:CE1	1:O:607:GLN:HE21	2.17	0.56
1:Q:464:GLN:HB3	1:Y:549:LYS:HB2	1.88	0.56
1:V:350:LEU:HD21	1:V:398:PHE:CE2	2.40	0.56
1:X:309:LYS:CG	1:X:685:GLU:HG2	2.36	0.56
1:X:371:MET:HE2	1:g:657:PRO:HB3	1.88	0.56
1:a:309:LYS:CG	1:a:685:GLU:HG2	2.36	0.56
1:d:549:LYS:HB2	1:f:464:GLN:HB3	1.87	0.56
1:d:589:GLN:HA	1:y:496:ASN:HD22	1.71	0.56
1:e:589:GLN:HA	1:3:496:ASN:HD22	1.71	0.56
1:f:392:PHE:CE2	1:i:713:THR:HA	2.41	0.56
1:h:296:TRP:O	1:h:300:ILE:HD12	2.06	0.56
1:j:464:GLN:HB3	1:2:549:LYS:HB2	1.87	0.56
1:m:309:LYS:CG	1:m:685:GLU:HG2	2.36	0.56
1:p:350:LEU:HD21	1:p:398:PHE:CE2	2.40	0.56
1:v:296:TRP:O	1:v:300:ILE:HD12	2.06	0.56
1:z:510:LEU:HD12	1:7:479:PRO:HB3	1.87	0.56
1:2:296:TRP:O	1:2:300:ILE:HD12	2.06	0.56
1:5:349:GLN:HE21	1:5:349:GLN:CA	2.04	0.56
1:6:426:HIS:HE1	1:6:607:GLN:NE2	2.01	0.56
1:B:713:THR:HA	1:M:392:PHE:CE2	2.41	0.55
1:C:394:CYS:O	1:C:396:GLU:N	2.38	0.55
1:D:392:PHE:CE2	1:m:713:THR:HA	2.41	0.55
1:H:394:CYS:O	1:H:396:GLU:N	2.38	0.55
1:I:296:TRP:O	1:I:300:ILE:HD12	2.06	0.55
1:I:549:LYS:HB2	1:U:464:GLN:HB3	1.87	0.55
1:J:464:GLN:HB3	1:p:549:LYS:HB2	1.87	0.55
1:J:549:LYS:HB2	1:P:464:GLN:HB3	1.87	0.55
1:K:309:LYS:CG	1:K:685:GLU:HG2	2.36	0.55
1:K:371:MET:HE2	1:6:657:PRO:HB3	1.88	0.55
1:L:486:GLN:NE2	1:Y:580:SER:OG	2.38	0.55
1:L:589:GLN:HA	1:Q:496:ASN:HD22	1.71	0.55
1:P:510:LEU:HD12	1:p:479:PRO:HB3	1.88	0.55
1:Q:296:TRP:O	1:Q:300:ILE:HD12	2.06	0.55
1:R:496:ASN:HD22	1:k:589:GLN:HA	1.71	0.55
1:T:309:LYS:CG	1:T:685:GLU:HG2	2.36	0.55
1:U:713:THR:HA	1:l:392:PHE:CE2	2.41	0.55
1:V:549:LYS:HB2	1:2:464:GLN:HB3	1.87	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:X:496:ASN:HD22	1:l:589:GLN:HA	1.71	0.55
1:a:496:ASN:HD22	1:c:589:GLN:HA	1.71	0.55
1:d:296:TRP:O	1:d:300:ILE:HD12	2.06	0.55
1:f:345:ASP:O	1:f:346:SER:CB	2.54	0.55
1:h:392:PHE:CE2	1:1:713:THR:HA	2.41	0.55
1:j:426:HIS:HE1	1:j:607:GLN:NE2	2.01	0.55
1:n:296:TRP:O	1:n:300:ILE:HD12	2.06	0.55
1:o:309:LYS:CG	1:o:685:GLU:HG2	2.36	0.55
1:u:296:TRP:O	1:u:300:ILE:HD12	2.06	0.55
1:v:713:THR:HA	1:z:392:PHE:CE2	2.42	0.55
1:x:296:TRP:O	1:x:300:ILE:HD12	2.06	0.55
1:x:309:LYS:CG	1:x:685:GLU:HG2	2.36	0.55
1:3:309:LYS:CG	1:3:685:GLU:HG2	2.36	0.55
1:E:589:GLN:HA	1:l:496:ASN:HD22	1.71	0.55
1:K:392:PHE:CE2	1:Z:713:THR:HA	2.42	0.55
1:M:371:MET:HE2	1:p:657:PRO:HB3	1.88	0.55
1:O:277:THR:HG21	1:O:395:LEU:HD11	1.89	0.55
1:O:392:PHE:CE2	1:s:713:THR:HA	2.41	0.55
1:R:348:TYR:CD2	1:R:348:TYR:N	2.73	0.55
1:R:657:PRO:HB3	1:d:371:MET:HE2	1.88	0.55
1:T:371:MET:HE2	1:k:657:PRO:HB3	1.88	0.55
1:T:713:THR:HA	1:k:392:PHE:CE2	2.41	0.55
1:U:345:ASP:O	1:U:346:SER:CB	2.54	0.55
1:e:296:TRP:O	1:e:300:ILE:HD12	2.06	0.55
1:i:392:PHE:CE2	1:x:713:THR:HA	2.41	0.55
1:j:345:ASP:O	1:j:346:SER:CB	2.54	0.55
1:l:277:THR:HG21	1:l:395:LEU:HD11	1.89	0.55
1:r:296:TRP:O	1:r:300:ILE:HD12	2.06	0.55
1:s:464:GLN:HB3	1:u:549:LYS:HB2	1.87	0.55
1:u:392:PHE:CE2	1:w:713:THR:HA	2.41	0.55
1:x:496:ASN:HD22	1:z:589:GLN:HA	1.71	0.55
1:z:486:GLN:NE2	1:7:580:SER:OG	2.38	0.55
1:3:296:TRP:O	1:3:300:ILE:HD12	2.06	0.55
1:4:392:PHE:CE2	1:8:713:THR:HA	2.42	0.55
1:6:296:TRP:O	1:6:300:ILE:HD12	2.06	0.55
1:B:392:PHE:CE2	1:a:713:THR:HA	2.42	0.55
1:C:296:TRP:O	1:C:300:ILE:HD12	2.06	0.55
1:D:447:ARG:NH2	1:q:551:ASN:OD1	2.40	0.55
1:E:713:THR:HA	1:I:392:PHE:CE2	2.42	0.55
1:H:657:PRO:HB3	1:V:371:MET:HE2	1.88	0.55
1:I:426:HIS:HE1	1:I:607:GLN:NE2	2.01	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:713:THR:HA	1:8:392:PHE:CE2	2.41	0.55
1:N:392:PHE:CE2	1:Q:713:THR:HA	2.41	0.55
1:O:496:ASN:HD22	1:w:589:GLN:HA	1.71	0.55
1:O:589:GLN:HA	1:o:496:ASN:HD22	1.72	0.55
1:P:345:ASP:O	1:P:346:SER:CB	2.54	0.55
1:Q:309:LYS:CG	1:Q:685:GLU:HG2	2.36	0.55
1:Q:589:GLN:HA	1:Y:496:ASN:HD22	1.71	0.55
1:T:296:TRP:O	1:T:300:ILE:HD12	2.06	0.55
1:V:479:PRO:HB3	1:j:510:LEU:HD12	1.88	0.55
1:V:657:PRO:HB3	1:h:371:MET:HE2	1.88	0.55
1:Y:309:LYS:CG	1:Y:685:GLU:HG2	2.36	0.55
1:c:296:TRP:O	1:c:300:ILE:HD12	2.06	0.55
1:c:392:PHE:CE2	1:7:713:THR:HA	2.41	0.55
1:k:371:MET:HE2	1:y:657:PRO:HB3	1.87	0.55
1:l:348:TYR:N	1:l:348:TYR:CD2	2.73	0.55
1:q:426:HIS:HE1	1:q:607:GLN:NE2	2.01	0.55
1:s:345:ASP:O	1:s:346:SER:CB	2.54	0.55
1:1:392:PHE:CE2	1:3:713:THR:HA	2.42	0.55
1:4:309:LYS:CG	1:4:685:GLU:HG2	2.36	0.55
1:5:440:GLN:O	1:5:464:GLN:NE2	2.28	0.55
1:6:426:HIS:CE1	1:6:607:GLN:HE21	2.17	0.55
1:A:713:THR:HA	1:L:392:PHE:CE2	2.42	0.55
1:C:277:THR:HG21	1:C:395:LEU:HD11	1.89	0.55
1:N:277:THR:HG21	1:N:395:LEU:HD11	1.89	0.55
1:O:549:LYS:HB2	1:w:464:GLN:HB3	1.88	0.55
1:R:426:HIS:HE1	1:R:607:GLN:NE2	2.01	0.55
1:S:296:TRP:O	1:S:300:ILE:HD12	2.06	0.55
1:W:296:TRP:O	1:W:300:ILE:HD12	2.06	0.55
1:W:426:HIS:HE1	1:W:607:GLN:NE2	2.01	0.55
1:Z:549:LYS:HB2	1:t:464:GLN:HB3	1.87	0.55
1:a:296:TRP:O	1:a:300:ILE:HD12	2.06	0.55
1:c:510:LEU:HD12	1:v:479:PRO:HB3	1.87	0.55
1:i:277:THR:HG21	1:i:395:LEU:HD11	1.89	0.55
1:m:296:TRP:O	1:m:300:ILE:HD12	2.06	0.55
1:n:426:HIS:HE1	1:n:607:GLN:NE2	2.01	0.55
1:p:371:MET:HE2	1:5:657:PRO:HB3	1.88	0.55
1:p:523:MET:HE2	1:p:523:MET:CA	2.23	0.55
1:q:348:TYR:CD2	1:q:348:TYR:N	2.73	0.55
1:u:426:HIS:HE1	1:u:607:GLN:NE2	2.01	0.55
1:w:426:HIS:HE1	1:w:607:GLN:NE2	2.01	0.55
1:x:589:GLN:HA	1:7:496:ASN:HD22	1.71	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:4:277:THR:HG21	1:4:395:LEU:HD11	1.89	0.55
1:A:479:PRO:HB3	1:e:510:LEU:HD12	1.87	0.55
1:D:371:MET:HE2	1:F:657:PRO:HB3	1.88	0.55
1:E:277:THR:HG21	1:E:395:LEU:HD11	1.89	0.55
1:E:426:HIS:HE1	1:E:607:GLN:NE2	2.01	0.55
1:F:589:GLN:HA	1:b:496:ASN:HD22	1.71	0.55
1:G:348:TYR:CD2	1:G:348:TYR:N	2.73	0.55
1:H:349:GLN:HE21	1:H:349:GLN:CA	2.04	0.55
1:I:479:PRO:HB3	1:N:510:LEU:HD12	1.88	0.55
1:K:277:THR:HG21	1:K:395:LEU:HD11	1.89	0.55
1:K:713:THR:HA	1:6:392:PHE:CE2	2.41	0.55
1:L:348:TYR:N	1:L:348:TYR:CD2	2.73	0.55
1:O:713:THR:HA	1:T:392:PHE:CE2	2.41	0.55
1:P:426:HIS:HE1	1:P:607:GLN:NE2	2.01	0.55
1:Q:277:THR:HG21	1:Q:395:LEU:HD11	1.88	0.55
1:R:713:THR:HA	1:X:392:PHE:CE2	2.41	0.55
1:T:525:SER:H	1:T:562:GLU:HB2	1.72	0.55
1:Y:713:THR:HA	1:e:392:PHE:CE2	2.41	0.55
1:Z:392:PHE:CE2	1:z:713:THR:HA	2.42	0.55
1:c:309:LYS:CG	1:c:685:GLU:HG2	2.36	0.55
1:g:296:TRP:O	1:g:300:ILE:HD12	2.06	0.55
1:p:277:THR:HG21	1:p:395:LEU:HD11	1.89	0.55
1:t:348:TYR:N	1:t:348:TYR:CD2	2.73	0.55
1:u:429:SER:OG	1:u:431:ASP:OD1	2.23	0.55
1:w:277:THR:HG21	1:w:395:LEU:HD11	1.89	0.55
1:2:426:HIS:CE1	1:2:607:GLN:HE21	2.17	0.55
1:6:277:THR:HG21	1:6:395:LEU:HD11	1.88	0.55
1:8:296:TRP:O	1:8:300:ILE:HD12	2.06	0.55
1:E:371:MET:HE2	1:I:657:PRO:HB3	1.88	0.55
1:E:464:GLN:HB3	1:l:549:LYS:HB2	1.88	0.55
1:G:464:GLN:HB3	1:8:549:LYS:HB2	1.88	0.55
1:H:309:LYS:CG	1:H:685:GLU:HG2	2.36	0.55
1:I:309:LYS:CG	1:I:685:GLU:HG2	2.36	0.55
1:J:277:THR:HG21	1:J:395:LEU:HD11	1.89	0.55
1:K:426:HIS:HE1	1:K:607:GLN:NE2	2.01	0.55
1:K:509:HIS:HA	1:K:514:ASP:HA	1.89	0.55
1:M:326:ASN:OD1	1:M:329:THR:OG1	2.25	0.55
1:N:657:PRO:HB3	1:Q:371:MET:HE2	1.88	0.55
1:S:326:ASN:OD1	1:S:329:THR:OG1	2.25	0.55
1:V:523:MET:HE2	1:V:523:MET:CA	2.23	0.55
1:W:277:THR:HG21	1:W:395:LEU:HD11	1.89	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:W:326:ASN:OD1	1:W:329:THR:OG1	2.25	0.55
1:Z:296:TRP:O	1:Z:300:ILE:HD12	2.06	0.55
1:b:309:LYS:CG	1:b:685:GLU:HG2	2.36	0.55
1:c:496:ASN:HD22	1:v:589:GLN:HA	1.71	0.55
1:e:277:THR:HG21	1:e:395:LEU:HD11	1.89	0.55
1:g:277:THR:HG21	1:g:395:LEU:HD11	1.89	0.55
1:h:309:LYS:CG	1:h:685:GLU:HG2	2.36	0.55
1:h:326:ASN:OD1	1:h:329:THR:OG1	2.25	0.55
1:h:589:GLN:HA	1:t:496:ASN:HD22	1.71	0.55
1:i:296:TRP:O	1:i:300:ILE:HD12	2.06	0.55
1:i:657:PRO:HB3	1:x:371:MET:HE2	1.88	0.55
1:m:525:SER:H	1:m:562:GLU:HB2	1.72	0.55
1:n:277:THR:HG21	1:n:395:LEU:HD11	1.89	0.55
1:p:296:TRP:O	1:p:300:ILE:HD12	2.06	0.55
1:q:525:SER:H	1:q:562:GLU:HB2	1.72	0.55
1:r:326:ASN:OD1	1:r:329:THR:OG1	2.25	0.55
1:2:277:THR:HG21	1:2:395:LEU:HD11	1.89	0.55
1:4:509:HIS:HA	1:4:514:ASP:HA	1.89	0.55
1:6:326:ASN:OD1	1:6:329:THR:OG1	2.25	0.55
1:7:309:LYS:CG	1:7:685:GLU:HG2	2.36	0.55
1:8:309:LYS:CG	1:8:685:GLU:HG2	2.36	0.55
1:8:426:HIS:HE1	1:8:607:GLN:NE2	2.01	0.55
1:A:371:MET:HE2	1:L:657:PRO:HB3	1.87	0.55
1:A:657:PRO:HB3	1:W:371:MET:HE2	1.88	0.55
1:E:326:ASN:OD1	1:E:329:THR:OG1	2.25	0.55
1:G:496:ASN:HD22	1:M:589:GLN:HA	1.71	0.55
1:H:296:TRP:O	1:H:300:ILE:HD12	2.06	0.55
1:H:589:GLN:HA	1:S:496:ASN:HD22	1.71	0.55
1:J:392:PHE:CE2	1:b:713:THR:HA	2.41	0.55
1:J:509:HIS:HA	1:J:514:ASP:HA	1.89	0.55
1:M:509:HIS:HA	1:M:514:ASP:HA	1.89	0.55
1:P:695:ASN:OD1	1:P:696:PRO:HD2	2.07	0.55
1:Q:440:GLN:O	1:Q:464:GLN:NE2	2.28	0.55
1:Q:525:SER:H	1:Q:562:GLU:HB2	1.72	0.55
1:T:486:GLN:NE2	1:q:580:SER:OG	2.40	0.55
1:U:371:MET:HE2	1:l:657:PRO:HB3	1.88	0.55
1:V:296:TRP:O	1:V:300:ILE:HD12	2.06	0.55
1:W:392:PHE:CE2	1:4:713:THR:HA	2.41	0.55
1:W:479:PRO:HB3	1:1:510:LEU:HD12	1.87	0.55
1:Y:277:THR:HG21	1:Y:395:LEU:HD11	1.89	0.55
1:Z:309:LYS:CG	1:Z:685:GLU:HG2	2.36	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Z:509:HIS:HA	1:Z:514:ASP:HA	1.89	0.55
1:Z:589:GLN:HA	1:h:496:ASN:HD22	1.71	0.55
1:a:509:HIS:HA	1:a:514:ASP:HA	1.89	0.55
1:c:277:THR:HG21	1:c:395:LEU:HD11	1.89	0.55
1:e:309:LYS:CG	1:e:685:GLU:HG2	2.36	0.55
1:e:326:ASN:OD1	1:e:329:THR:OG1	2.25	0.55
1:f:309:LYS:CG	1:f:685:GLU:HG2	2.36	0.55
1:i:510:LEU:HD12	1:u:479:PRO:HB3	1.88	0.55
1:j:509:HIS:HA	1:j:514:ASP:HA	1.89	0.55
1:k:496:ASN:HD22	1:m:589:GLN:HA	1.71	0.55
1:l:326:ASN:OD1	1:l:329:THR:OG1	2.25	0.55
1:l:713:THR:HA	1:m:392:PHE:CE2	2.42	0.55
1:u:309:LYS:CG	1:u:685:GLU:HG2	2.36	0.55
1:u:657:PRO:HB3	1:w:371:MET:HE2	1.88	0.55
1:x:277:THR:HG21	1:x:395:LEU:HD11	1.89	0.55
1:y:426:HIS:HE1	1:y:607:GLN:NE2	2.01	0.55
1:z:348:TYR:CD2	1:z:348:TYR:N	2.73	0.55
1:2:509:HIS:HA	1:2:514:ASP:HA	1.89	0.55
1:3:277:THR:HG21	1:3:395:LEU:HD11	1.89	0.55
1:3:509:HIS:HA	1:3:514:ASP:HA	1.89	0.55
1:4:426:HIS:HE1	1:4:607:GLN:NE2	2.01	0.55
1:4:589:GLN:HA	1:6:496:ASN:HD22	1.71	0.55
1:7:277:THR:HG21	1:7:395:LEU:HD11	1.89	0.55
1:7:296:TRP:O	1:7:300:ILE:HD12	2.06	0.55
1:A:426:HIS:CE1	1:A:607:GLN:HE21	2.17	0.55
1:A:695:ASN:OD1	1:A:696:PRO:HD2	2.07	0.55
1:B:695:ASN:OD1	1:B:696:PRO:HD2	2.07	0.55
1:E:549:LYS:HB2	1:X:464:GLN:HB3	1.88	0.55
1:F:713:THR:HA	1:U:392:PHE:CE2	2.41	0.55
1:G:296:TRP:O	1:G:300:ILE:HD12	2.06	0.55
1:H:440:GLN:O	1:H:464:GLN:NE2	2.28	0.55
1:H:713:THR:HA	1:3:392:PHE:CE2	2.41	0.55
1:I:371:MET:HE2	1:Y:657:PRO:HB3	1.88	0.55
1:I:429:SER:OG	1:I:431:ASP:OD1	2.24	0.55
1:J:695:ASN:OD1	1:J:696:PRO:HD2	2.07	0.55
1:M:309:LYS:CG	1:M:685:GLU:HG2	2.36	0.55
1:N:296:TRP:O	1:N:300:ILE:HD12	2.06	0.55
1:O:326:ASN:OD1	1:O:329:THR:OG1	2.25	0.55
1:O:479:PRO:HB3	1:o:510:LEU:HD12	1.88	0.55
1:O:657:PRO:HB3	1:s:371:MET:HE2	1.88	0.55
1:O:695:ASN:OD1	1:O:696:PRO:HD2	2.07	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:R:326:ASN:OD1	1:R:329:THR:OG1	2.25	0.55
1:R:479:PRO:HB3	1:m:510:LEU:HD12	1.87	0.55
1:R:525:SER:H	1:R:562:GLU:HB2	1.72	0.55
1:V:392:PHE:CE2	1:h:713:THR:HA	2.42	0.55
1:V:509:HIS:HA	1:V:514:ASP:HA	1.89	0.55
1:X:345:ASP:O	1:X:346:SER:CB	2.54	0.55
1:X:510:LEU:HD12	1:l:479:PRO:HB3	1.88	0.55
1:Y:296:TRP:O	1:Y:300:ILE:HD12	2.06	0.55
1:Z:326:ASN:OD1	1:Z:329:THR:OG1	2.25	0.55
1:Z:426:HIS:HE1	1:Z:607:GLN:NE2	2.01	0.55
1:a:277:THR:HG21	1:a:395:LEU:HD11	1.89	0.55
1:a:392:PHE:CE2	1:5:713:THR:HA	2.41	0.55
1:a:589:GLN:HA	1:v:496:ASN:HD22	1.71	0.55
1:c:326:ASN:OD1	1:c:329:THR:OG1	2.25	0.55
1:c:695:ASN:OD1	1:c:696:PRO:HD2	2.07	0.55
1:d:277:THR:HG21	1:d:395:LEU:HD11	1.89	0.55
1:f:496:ASN:HD22	1:y:589:GLN:HA	1.71	0.55
1:h:509:HIS:HA	1:h:514:ASP:HA	1.89	0.55
1:j:695:ASN:OD1	1:j:696:PRO:HD2	2.07	0.55
1:l:525:SER:H	1:l:562:GLU:HB2	1.72	0.55
1:o:345:ASP:O	1:o:346:SER:CB	2.54	0.55
1:o:479:PRO:HB3	1:w:510:LEU:HD12	1.88	0.55
1:p:509:HIS:HA	1:p:514:ASP:HA	1.89	0.55
1:s:392:PHE:CE2	1:y:713:THR:HA	2.42	0.55
1:u:326:ASN:OD1	1:u:329:THR:OG1	2.25	0.55
1:w:326:ASN:OD1	1:w:329:THR:OG1	2.25	0.55
1:x:525:SER:H	1:x:562:GLU:HB2	1.72	0.55
1:5:296:TRP:O	1:5:300:ILE:HD12	2.06	0.55
1:5:309:LYS:CG	1:5:685:GLU:HG2	2.36	0.55
1:8:326:ASN:OD1	1:8:329:THR:OG1	2.25	0.55
1:8:509:HIS:HA	1:8:514:ASP:HA	1.89	0.55
1:A:496:ASN:HD22	1:3:589:GLN:HA	1.72	0.55
1:B:510:LEU:HD12	1:6:479:PRO:HB3	1.87	0.55
1:C:695:ASN:OD1	1:C:696:PRO:HD2	2.07	0.55
1:D:496:ASN:HD22	1:T:589:GLN:HA	1.72	0.55
1:E:510:LEU:HD12	1:X:479:PRO:HB3	1.88	0.55
1:E:525:SER:H	1:E:562:GLU:HB2	1.72	0.55
1:I:326:ASN:OD1	1:I:329:THR:OG1	2.25	0.55
1:J:426:HIS:CE1	1:J:607:GLN:HE21	2.17	0.55
1:J:496:ASN:HD22	1:P:589:GLN:HA	1.72	0.55
1:K:589:GLN:HA	1:W:496:ASN:HD22	1.72	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:695:ASN:OD1	1:K:696:PRO:HD2	2.07	0.55
1:L:326:ASN:OD1	1:L:329:THR:OG1	2.25	0.55
1:M:695:ASN:OD1	1:M:696:PRO:HD2	2.07	0.55
1:M:713:THR:HA	1:p:392:PHE:CE2	2.42	0.55
1:P:397:TYR:C	1:P:397:TYR:CD2	2.85	0.55
1:P:509:HIS:HA	1:P:514:ASP:HA	1.89	0.55
1:R:296:TRP:O	1:R:300:ILE:HD12	2.06	0.55
1:R:464:GLN:HB3	1:m:549:LYS:HB2	1.87	0.55
1:S:277:THR:HG21	1:S:395:LEU:HD11	1.89	0.55
1:U:277:THR:HG21	1:U:395:LEU:HD11	1.89	0.55
1:b:589:GLN:HA	1:n:496:ASN:HD22	1.71	0.55
1:e:695:ASN:OD1	1:e:696:PRO:HD2	2.07	0.55
1:g:509:HIS:HA	1:g:514:ASP:HA	1.89	0.55
1:g:695:ASN:OD1	1:g:696:PRO:HD2	2.07	0.55
1:j:397:TYR:CD2	1:j:397:TYR:C	2.85	0.55
1:l:695:ASN:OD1	1:l:696:PRO:HD2	2.07	0.55
1:n:677:GLN:NE2	1:q:402:MET:SD	2.80	0.55
1:p:426:HIS:CE1	1:p:607:GLN:HE21	2.17	0.55
1:q:326:ASN:OD1	1:q:329:THR:OG1	2.25	0.55
1:s:277:THR:HG21	1:s:395:LEU:HD11	1.88	0.55
1:s:326:ASN:OD1	1:s:329:THR:OG1	2.25	0.55
1:t:296:TRP:O	1:t:300:ILE:HD12	2.06	0.55
1:u:371:MET:HE2	1:7:657:PRO:HB3	1.88	0.55
1:v:695:ASN:OD1	1:v:696:PRO:HD2	2.07	0.55
1:w:525:SER:H	1:w:562:GLU:HB2	1.72	0.55
1:x:479:PRO:HB3	1:7:510:LEU:HD12	1.88	0.55
1:z:326:ASN:OD1	1:z:329:THR:OG1	2.25	0.55
1:1:695:ASN:OD1	1:1:696:PRO:HD2	2.07	0.55
1:2:695:ASN:OD1	1:2:696:PRO:HD2	2.07	0.55
1:4:464:GLN:HB3	1:6:549:LYS:HB2	1.88	0.55
1:4:657:PRO:HB3	1:8:371:MET:HE2	1.88	0.55
1:4:695:ASN:OD1	1:4:696:PRO:HD2	2.07	0.55
1:5:695:ASN:OD1	1:5:696:PRO:HD2	2.07	0.55
1:A:525:SER:H	1:A:562:GLU:HB2	1.72	0.55
1:B:509:HIS:HA	1:B:514:ASP:HA	1.89	0.55
1:C:509:HIS:HA	1:C:514:ASP:HA	1.89	0.55
1:E:392:PHE:CE2	1:S:713:THR:HA	2.42	0.55
1:G:371:MET:HE2	1:Q:657:PRO:HB3	1.88	0.55
1:H:695:ASN:OD1	1:H:696:PRO:HD2	2.07	0.55
1:K:397:TYR:CD2	1:K:397:TYR:C	2.85	0.55
1:K:464:GLN:HB3	1:W:549:LYS:HB2	1.88	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:309:LYS:CG	1:L:685:GLU:HG2	2.36	0.55
1:N:695:ASN:OD1	1:N:696:PRO:HD2	2.07	0.55
1:O:525:SER:H	1:O:562:GLU:HB2	1.72	0.55
1:Q:479:PRO:HB3	1:Y:510:LEU:HD12	1.88	0.55
1:R:392:PHE:CE2	1:d:713:THR:HA	2.42	0.55
1:S:397:TYR:C	1:S:397:TYR:CD2	2.85	0.55
1:U:326:ASN:OD1	1:U:329:THR:OG1	2.25	0.55
1:U:695:ASN:OD1	1:U:696:PRO:HD2	2.07	0.55
1:V:277:THR:HG21	1:V:395:LEU:HD11	1.89	0.55
1:e:509:HIS:HA	1:e:514:ASP:HA	1.89	0.55
1:h:695:ASN:OD1	1:h:696:PRO:HD2	2.07	0.55
1:r:397:TYR:C	1:r:397:TYR:CD2	2.85	0.55
1:s:695:ASN:OD1	1:s:696:PRO:HD2	2.07	0.55
1:v:426:HIS:CE1	1:v:607:GLN:HE21	2.17	0.55
1:1:509:HIS:HA	1:1:514:ASP:HA	1.89	0.55
1:2:525:SER:H	1:2:562:GLU:HB2	1.72	0.55
1:4:397:TYR:CD2	1:4:397:TYR:C	2.85	0.55
1:5:397:TYR:C	1:5:397:TYR:CD2	2.85	0.55
1:6:509:HIS:HA	1:6:514:ASP:HA	1.89	0.55
1:F:426:HIS:HE1	1:F:607:GLN:NE2	2.01	0.54
1:F:525:SER:H	1:F:562:GLU:HB2	1.72	0.54
1:G:326:ASN:OD1	1:G:329:THR:OG1	2.25	0.54
1:H:397:TYR:C	1:H:397:TYR:CD2	2.85	0.54
1:J:326:ASN:OD1	1:J:329:THR:OG1	2.25	0.54
1:J:525:SER:H	1:J:562:GLU:HB2	1.72	0.54
1:J:589:GLN:HA	1:p:496:ASN:HD22	1.71	0.54
1:K:657:PRO:HB3	1:Z:371:MET:HE2	1.88	0.54
1:L:371:MET:HE2	1:8:657:PRO:HB3	1.88	0.54
1:L:710:VAL:HB	1:L:713:THR:OG1	2.08	0.54
1:M:496:ASN:HD22	1:8:589:GLN:HA	1.71	0.54
1:M:710:VAL:HB	1:M:713:THR:OG1	2.08	0.54
1:R:397:TYR:CD2	1:R:397:TYR:C	2.85	0.54
1:R:510:LEU:HD12	1:k:479:PRO:HB3	1.87	0.54
1:R:695:ASN:OD1	1:R:696:PRO:HD2	2.07	0.54
1:T:326:ASN:OD1	1:T:329:THR:OG1	2.25	0.54
1:T:523:MET:HE2	1:T:523:MET:CA	2.23	0.54
1:V:426:HIS:CE1	1:V:607:GLN:HE21	2.17	0.54
1:W:710:VAL:HB	1:W:713:THR:OG1	2.08	0.54
1:Y:397:TYR:CD2	1:Y:397:TYR:C	2.85	0.54
1:Z:277:THR:HG21	1:Z:395:LEU:HD11	1.89	0.54
1:b:397:TYR:CD2	1:b:397:TYR:C	2.85	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:b:695:ASN:OD1	1:b:696:PRO:HD2	2.07	0.54
1:c:509:HIS:HA	1:c:514:ASP:HA	1.89	0.54
1:f:695:ASN:OD1	1:f:696:PRO:HD2	2.07	0.54
1:h:710:VAL:HB	1:h:713:THR:OG1	2.08	0.54
1:i:326:ASN:OD1	1:i:329:THR:OG1	2.25	0.54
1:i:479:PRO:HB3	1:s:510:LEU:HD12	1.88	0.54
1:i:695:ASN:OD1	1:i:696:PRO:HD2	2.07	0.54
1:j:326:ASN:OD1	1:j:329:THR:OG1	2.25	0.54
1:l:440:GLN:O	1:l:464:GLN:NE2	2.28	0.54
1:o:464:GLN:HB3	1:w:549:LYS:HB2	1.88	0.54
1:q:296:TRP:O	1:q:300:ILE:HD12	2.06	0.54
1:q:695:ASN:OD1	1:q:696:PRO:HD2	2.07	0.54
1:r:277:THR:HG21	1:r:395:LEU:HD11	1.89	0.54
1:t:326:ASN:OD1	1:t:329:THR:OG1	2.25	0.54
1:t:657:PRO:HB3	1:2:371:MET:HE2	1.88	0.54
1:v:371:MET:HE2	1:z:657:PRO:HB3	1.88	0.54
1:v:525:SER:H	1:v:562:GLU:HB2	1.72	0.54
1:x:440:GLN:O	1:x:464:GLN:NE2	2.28	0.54
1:y:296:TRP:O	1:y:300:ILE:HD12	2.06	0.54
1:z:277:THR:HG21	1:z:395:LEU:HD11	1.89	0.54
1:z:309:LYS:CG	1:z:685:GLU:HG2	2.36	0.54
1:2:326:ASN:OD1	1:2:329:THR:OG1	2.25	0.54
1:6:710:VAL:HB	1:6:713:THR:OG1	2.08	0.54
1:A:710:VAL:HB	1:A:713:THR:OG1	2.08	0.54
1:D:525:SER:H	1:D:562:GLU:HB2	1.72	0.54
1:F:371:MET:HE2	1:U:657:PRO:HB3	1.88	0.54
1:F:397:TYR:CD2	1:F:397:TYR:C	2.85	0.54
1:G:397:TYR:CD2	1:G:397:TYR:C	2.85	0.54
1:G:657:PRO:HB3	1:J:371:MET:HE2	1.88	0.54
1:I:277:THR:HG21	1:I:395:LEU:HD11	1.89	0.54
1:K:496:ASN:HD22	1:1:589:GLN:HA	1.71	0.54
1:K:525:SER:H	1:K:562:GLU:HB2	1.72	0.54
1:N:326:ASN:OD1	1:N:329:THR:OG1	2.25	0.54
1:N:710:VAL:HB	1:N:713:THR:OG1	2.08	0.54
1:O:397:TYR:CD2	1:O:397:TYR:C	2.85	0.54
1:P:326:ASN:OD1	1:P:329:THR:OG1	2.25	0.54
1:R:589:GLN:HA	1:m:496:ASN:HD22	1.71	0.54
1:T:426:HIS:HE1	1:T:607:GLN:NE2	2.01	0.54
1:V:397:TYR:CD2	1:V:397:TYR:C	2.85	0.54
1:W:397:TYR:C	1:W:397:TYR:CD2	2.85	0.54
1:W:509:HIS:HA	1:W:514:ASP:HA	1.89	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:X:397:TYR:C	1:X:397:TYR:CD2	2.85	0.54
1:X:426:HIS:CE1	1:X:607:GLN:HE21	2.17	0.54
1:X:710:VAL:HB	1:X:713:THR:OG1	2.08	0.54
1:Z:657:PRO:HB3	1:z:371:MET:HE2	1.88	0.54
1:f:397:TYR:CD2	1:f:397:TYR:C	2.86	0.54
1:i:525:SER:H	1:i:562:GLU:HB2	1.72	0.54
1:j:447:ARG:NH2	1:2:551:ASN:OD1	2.40	0.54
1:l:397:TYR:CD2	1:l:397:TYR:C	2.85	0.54
1:m:277:THR:HG21	1:m:395:LEU:HD11	1.89	0.54
1:m:326:ASN:OD1	1:m:329:THR:OG1	2.25	0.54
1:o:710:VAL:HB	1:o:713:THR:OG1	2.08	0.54
1:p:397:TYR:CD2	1:p:397:TYR:C	2.85	0.54
1:q:397:TYR:CD2	1:q:397:TYR:C	2.85	0.54
1:s:589:GLN:HA	1:u:496:ASN:HD22	1.71	0.54
1:t:371:MET:HE2	1:x:657:PRO:HB3	1.88	0.54
1:t:397:TYR:CD2	1:t:397:TYR:C	2.85	0.54
1:u:277:THR:HG21	1:u:395:LEU:HD11	1.89	0.54
1:v:710:VAL:HB	1:v:713:THR:OG1	2.08	0.54
1:4:525:SER:H	1:4:562:GLU:HB2	1.72	0.54
1:7:397:TYR:CD2	1:7:397:TYR:C	2.85	0.54
1:A:487:ARG:HD3	1:A:533:PHE:CD1	2.43	0.54
1:D:345:ASP:O	1:D:346:SER:CB	2.54	0.54
1:F:296:TRP:O	1:F:300:ILE:HD12	2.06	0.54
1:G:509:HIS:HA	1:G:514:ASP:HA	1.89	0.54
1:H:277:THR:HG21	1:H:395:LEU:HD11	1.89	0.54
1:H:509:HIS:HA	1:H:514:ASP:HA	1.89	0.54
1:J:710:VAL:HB	1:J:713:THR:OG1	2.08	0.54
1:K:710:VAL:HB	1:K:713:THR:OG1	2.08	0.54
1:L:277:THR:HG21	1:L:395:LEU:HD11	1.89	0.54
1:L:487:ARG:HD3	1:L:533:PHE:CD1	2.43	0.54
1:N:479:PRO:HB3	1:U:510:LEU:HD12	1.87	0.54
1:O:509:HIS:HA	1:O:514:ASP:HA	1.89	0.54
1:Q:710:VAL:HB	1:Q:713:THR:OG1	2.08	0.54
1:T:710:VAL:HB	1:T:713:THR:OG1	2.08	0.54
1:U:487:ARG:HD3	1:U:533:PHE:CD1	2.43	0.54
1:V:496:ASN:HD22	1:2:589:GLN:HA	1.71	0.54
1:a:510:LEU:HD12	1:c:479:PRO:HB3	1.88	0.54
1:b:326:ASN:OD1	1:b:329:THR:OG1	2.25	0.54
1:f:326:ASN:OD1	1:f:329:THR:OG1	2.25	0.54
1:g:440:GLN:O	1:g:464:GLN:NE2	2.28	0.54
1:g:713:THR:HA	1:j:392:PHE:CE2	2.41	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:i:710:VAL:HB	1:i:713:THR:OG1	2.08	0.54
1:l:509:HIS:HA	1:l:514:ASP:HA	1.89	0.54
1:l:523:MET:CE	1:l:523:MET:CA	2.85	0.54
1:m:426:HIS:HE1	1:m:607:GLN:NE2	2.01	0.54
1:m:710:VAL:HB	1:m:713:THR:OG1	2.08	0.54
1:o:397:TYR:C	1:o:397:TYR:CD2	2.85	0.54
1:o:426:HIS:CE1	1:o:607:GLN:HE21	2.17	0.54
1:r:426:HIS:CE1	1:r:607:GLN:HE21	2.17	0.54
1:s:487:ARG:HD3	1:s:533:PHE:CD1	2.43	0.54
1:t:509:HIS:HA	1:t:514:ASP:HA	1.89	0.54
1:t:695:ASN:OD1	1:t:696:PRO:HD2	2.07	0.54
1:t:713:THR:HA	1:x:392:PHE:CE2	2.42	0.54
1:v:487:ARG:HD3	1:v:533:PHE:CD1	2.43	0.54
1:w:509:HIS:HA	1:w:514:ASP:HA	1.89	0.54
1:x:710:VAL:HB	1:x:713:THR:OG1	2.08	0.54
1:y:397:TYR:CD2	1:y:397:TYR:C	2.85	0.54
1:y:525:SER:H	1:y:562:GLU:HB2	1.72	0.54
1:z:487:ARG:HD3	1:z:533:PHE:CD1	2.43	0.54
1:z:695:ASN:OD1	1:z:696:PRO:HD2	2.07	0.54
1:z:710:VAL:HB	1:z:713:THR:OG1	2.08	0.54
1:4:710:VAL:HB	1:4:713:THR:OG1	2.08	0.54
1:5:509:HIS:HA	1:5:514:ASP:HA	1.89	0.54
1:6:397:TYR:CD2	1:6:397:TYR:C	2.85	0.54
1:8:277:THR:HG21	1:8:395:LEU:HD11	1.89	0.54
1:B:487:ARG:HD3	1:B:533:PHE:CD1	2.43	0.54
1:B:589:GLN:HA	1:4:496:ASN:HD22	1.71	0.54
1:C:713:THR:HA	1:P:392:PHE:CE2	2.41	0.54
1:D:474:SER:HA	1:q:518:ASN:HB3	1.89	0.54
1:D:479:PRO:HB3	1:q:510:LEU:HD12	1.88	0.54
1:F:277:THR:HG21	1:F:395:LEU:HD11	1.89	0.54
1:G:695:ASN:OD1	1:G:696:PRO:HD2	2.07	0.54
1:I:496:ASN:HD22	1:U:589:GLN:HA	1.71	0.54
1:K:326:ASN:OD1	1:K:329:THR:OG1	2.25	0.54
1:K:487:ARG:HD3	1:K:533:PHE:CD1	2.43	0.54
1:M:397:TYR:CD2	1:M:397:TYR:C	2.85	0.54
1:N:525:SER:H	1:N:562:GLU:HB2	1.72	0.54
1:O:426:HIS:HE1	1:O:607:GLN:NE2	2.01	0.54
1:O:523:MET:CE	1:O:523:MET:CA	2.85	0.54
1:R:418:VAL:HG21	1:R:637:PHE:HB3	1.90	0.54
1:S:426:HIS:CE1	1:S:607:GLN:HE21	2.17	0.54
1:S:710:VAL:HB	1:S:713:THR:OG1	2.08	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:T:277:THR:HG21	1:T:395:LEU:HD11	1.89	0.54
1:U:303:ASN:HA	1:U:689:GLU:HB2	1.90	0.54
1:Y:487:ARG:HD3	1:Y:533:PHE:CD1	2.43	0.54
1:Z:303:ASN:HA	1:Z:689:GLU:HB2	1.90	0.54
1:c:397:TYR:C	1:c:397:TYR:CD2	2.85	0.54
1:d:496:ASN:HD22	1:f:589:GLN:HA	1.71	0.54
1:d:525:SER:H	1:d:562:GLU:HB2	1.72	0.54
1:e:397:TYR:CD2	1:e:397:TYR:C	2.85	0.54
1:f:710:VAL:HB	1:f:713:THR:OG1	2.08	0.54
1:h:397:TYR:CD2	1:h:397:TYR:C	2.85	0.54
1:k:277:THR:HG21	1:k:395:LEU:HD11	1.88	0.54
1:k:397:TYR:C	1:k:397:TYR:CD2	2.85	0.54
1:k:525:SER:H	1:k:562:GLU:HB2	1.72	0.54
1:l:426:HIS:HE1	1:l:607:GLN:NE2	2.01	0.54
1:n:525:SER:H	1:n:562:GLU:HB2	1.72	0.54
1:q:418:VAL:HG21	1:q:637:PHE:HB3	1.90	0.54
1:r:551:ASN:OD1	1:5:447:ARG:NH2	2.41	0.54
1:r:710:VAL:HB	1:r:713:THR:OG1	2.08	0.54
1:s:657:PRO:HB3	1:y:371:MET:HE2	1.88	0.54
1:u:397:TYR:CD2	1:u:397:TYR:C	2.85	0.54
1:w:710:VAL:HB	1:w:713:THR:OG1	2.08	0.54
1:1:487:ARG:HD3	1:1:533:PHE:CD1	2.43	0.54
1:2:710:VAL:HB	1:2:713:THR:OG1	2.08	0.54
1:3:695:ASN:OD1	1:3:696:PRO:HD2	2.07	0.54
1:4:326:ASN:OD1	1:4:329:THR:OG1	2.25	0.54
1:4:487:ARG:HD3	1:4:533:PHE:CD1	2.43	0.54
1:5:277:THR:HG21	1:5:395:LEU:HD11	1.89	0.54
1:7:326:ASN:OD1	1:7:329:THR:OG1	2.25	0.54
1:7:710:VAL:HB	1:7:713:THR:OG1	2.08	0.54
1:A:426:HIS:HE1	1:A:607:GLN:NE2	2.01	0.54
1:B:496:ASN:HD22	1:6:589:GLN:HA	1.71	0.54
1:C:303:ASN:HA	1:C:689:GLU:HB2	1.90	0.54
1:D:397:TYR:C	1:D:397:TYR:CD2	2.85	0.54
1:E:509:HIS:HA	1:E:514:ASP:HA	1.89	0.54
1:E:710:VAL:HB	1:E:713:THR:OG1	2.08	0.54
1:F:710:VAL:HB	1:F:713:THR:OG1	2.08	0.54
1:G:713:THR:HA	1:Q:392:PHE:CE2	2.42	0.54
1:I:397:TYR:CD2	1:I:397:TYR:C	2.85	0.54
1:L:695:ASN:OD1	1:L:696:PRO:HD2	2.07	0.54
1:O:440:GLN:O	1:O:464:GLN:NE2	2.28	0.54
1:O:487:ARG:HD3	1:O:533:PHE:CD1	2.43	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Q:695:ASN:OD1	1:Q:696:PRO:HD2	2.07	0.54
1:R:509:HIS:HA	1:R:514:ASP:HA	1.89	0.54
1:S:303:ASN:HA	1:S:689:GLU:HB2	1.90	0.54
1:U:710:VAL:HB	1:U:713:THR:OG1	2.08	0.54
1:X:713:THR:HA	1:g:392:PHE:CE2	2.42	0.54
1:Y:326:ASN:OD1	1:Y:329:THR:OG1	2.25	0.54
1:Y:695:ASN:OD1	1:Y:696:PRO:HD2	2.07	0.54
1:Y:710:VAL:HB	1:Y:713:THR:OG1	2.08	0.54
1:Z:397:TYR:CD2	1:Z:397:TYR:C	2.85	0.54
1:a:525:SER:H	1:a:562:GLU:HB2	1.72	0.54
1:a:695:ASN:OD1	1:a:696:PRO:HD2	2.07	0.54
1:b:487:ARG:HD3	1:b:533:PHE:CD1	2.43	0.54
1:b:710:VAL:HB	1:b:713:THR:OG1	2.08	0.54
1:d:303:ASN:HA	1:d:689:GLU:HB2	1.90	0.54
1:d:326:ASN:OD1	1:d:329:THR:OG1	2.25	0.54
1:d:695:ASN:OD1	1:d:696:PRO:HD2	2.07	0.54
1:e:479:PRO:HB3	1:3:510:LEU:HD12	1.88	0.54
1:g:326:ASN:OD1	1:g:329:THR:OG1	2.25	0.54
1:h:418:VAL:HG21	1:h:637:PHE:HB3	1.90	0.54
1:k:309:LYS:CG	1:k:685:GLU:HG2	2.36	0.54
1:l:710:VAL:HB	1:l:713:THR:OG1	2.08	0.54
1:p:326:ASN:OD1	1:p:329:THR:OG1	2.25	0.54
1:q:303:ASN:HA	1:q:689:GLU:HB2	1.90	0.54
1:s:710:VAL:HB	1:s:713:THR:OG1	2.08	0.54
1:y:509:HIS:HA	1:y:514:ASP:HA	1.89	0.54
1:3:525:SER:H	1:3:562:GLU:HB2	1.72	0.54
1:6:525:SER:H	1:6:562:GLU:HB2	1.72	0.54
1:6:695:ASN:OD1	1:6:696:PRO:HD2	2.07	0.54
1:7:487:ARG:HD3	1:7:533:PHE:CD1	2.43	0.54
1:7:695:ASN:OD1	1:7:696:PRO:HD2	2.07	0.54
1:8:303:ASN:HA	1:8:689:GLU:HB2	1.90	0.54
1:8:397:TYR:C	1:8:397:TYR:CD2	2.85	0.54
1:8:523:MET:CE	1:8:523:MET:CA	2.85	0.54
1:A:303:ASN:HA	1:A:689:GLU:HB2	1.90	0.54
1:B:277:THR:HG21	1:B:395:LEU:HD11	1.89	0.54
1:B:657:PRO:HB3	1:a:371:MET:HE2	1.88	0.54
1:C:296:TRP:NE1	1:C:300:ILE:HD11	2.23	0.54
1:C:326:ASN:OD1	1:C:329:THR:OG1	2.25	0.54
1:C:392:PHE:CE2	1:o:713:THR:HA	2.42	0.54
1:C:440:GLN:O	1:C:464:GLN:NE2	2.28	0.54
1:D:326:ASN:OD1	1:D:329:THR:OG1	2.25	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:296:TRP:NE1	1:F:300:ILE:HD11	2.23	0.54
1:F:509:HIS:HA	1:F:514:ASP:HA	1.89	0.54
1:L:397:TYR:C	1:L:397:TYR:CD2	2.85	0.54
1:M:418:VAL:HG21	1:M:637:PHE:HB3	1.90	0.54
1:M:487:ARG:HD3	1:M:533:PHE:CD1	2.43	0.54
1:M:510:LEU:HD12	1:8:479:PRO:HB3	1.88	0.54
1:N:487:ARG:HD3	1:N:533:PHE:CD1	2.43	0.54
1:O:710:VAL:HB	1:O:713:THR:OG1	2.08	0.54
1:R:303:ASN:HA	1:R:689:GLU:HB2	1.90	0.54
1:V:326:ASN:OD1	1:V:329:THR:OG1	2.25	0.54
1:V:525:SER:H	1:V:562:GLU:HB2	1.72	0.54
1:Y:303:ASN:HA	1:Y:689:GLU:HB2	1.90	0.54
1:Z:523:MET:CE	1:Z:523:MET:CA	2.85	0.54
1:a:326:ASN:OD1	1:a:329:THR:OG1	2.25	0.54
1:f:303:ASN:HA	1:f:689:GLU:HB2	1.90	0.54
1:f:487:ARG:HD3	1:f:533:PHE:CD1	2.43	0.54
1:g:296:TRP:NE1	1:g:300:ILE:HD11	2.23	0.54
1:g:303:ASN:HA	1:g:689:GLU:HB2	1.90	0.54
1:i:487:ARG:HD3	1:i:533:PHE:CD1	2.43	0.54
1:i:496:ASN:HD22	1:u:589:GLN:HA	1.71	0.54
1:i:549:LYS:HB2	1:u:464:GLN:HB3	1.88	0.54
1:k:326:ASN:OD1	1:k:329:THR:OG1	2.25	0.54
1:n:303:ASN:HA	1:n:689:GLU:HB2	1.90	0.54
1:n:326:ASN:OD1	1:n:329:THR:OG1	2.25	0.54
1:n:695:ASN:OD1	1:n:696:PRO:HD2	2.07	0.54
1:p:710:VAL:HB	1:p:713:THR:OG1	2.08	0.54
1:q:440:GLN:O	1:q:464:GLN:NE2	2.28	0.54
1:q:509:HIS:HA	1:q:514:ASP:HA	1.89	0.54
1:r:371:MET:HE2	1:w:657:PRO:HB3	1.88	0.54
1:s:303:ASN:HA	1:s:689:GLU:HB2	1.90	0.54
1:s:426:HIS:HE1	1:s:607:GLN:NE2	2.01	0.54
1:t:392:PHE:CE2	1:2:713:THR:HA	2.43	0.54
1:v:303:ASN:HA	1:v:689:GLU:HB2	1.90	0.54
1:v:426:HIS:HE1	1:v:607:GLN:NE2	2.01	0.54
1:v:509:HIS:HA	1:v:514:ASP:HA	1.89	0.54
1:x:296:TRP:NE1	1:x:300:ILE:HD11	2.23	0.54
1:x:487:ARG:HD3	1:x:533:PHE:CD1	2.43	0.54
1:y:277:THR:HG21	1:y:395:LEU:HD11	1.89	0.54
1:y:296:TRP:NE1	1:y:300:ILE:HD11	2.23	0.54
1:y:710:VAL:HB	1:y:713:THR:OG1	2.08	0.54
1:1:277:THR:HG21	1:1:395:LEU:HD11	1.89	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:4:303:ASN:HA	1:4:689:GLU:HB2	1.90	0.54
1:A:326:ASN:OD1	1:A:329:THR:OG1	2.25	0.54
1:A:509:HIS:HA	1:A:514:ASP:HA	1.89	0.54
1:D:277:THR:HG21	1:D:395:LEU:HD11	1.89	0.54
1:D:309:LYS:CG	1:D:685:GLU:HG2	2.36	0.54
1:G:525:SER:H	1:G:562:GLU:HB2	1.72	0.54
1:G:589:GLN:HA	1:8:496:ASN:HD22	1.71	0.54
1:H:525:SER:H	1:H:562:GLU:HB2	1.72	0.54
1:I:418:VAL:HG21	1:I:637:PHE:HB3	1.90	0.54
1:I:589:GLN:HA	1:N:496:ASN:HD22	1.71	0.54
1:I:695:ASN:OD1	1:I:696:PRO:HD2	2.07	0.54
1:K:303:ASN:HA	1:K:689:GLU:HB2	1.90	0.54
1:L:523:MET:CE	1:L:523:MET:CA	2.85	0.54
1:Q:296:TRP:NE1	1:Q:300:ILE:HD11	2.23	0.54
1:Q:487:ARG:HD3	1:Q:533:PHE:CD1	2.43	0.54
1:T:397:TYR:C	1:T:397:TYR:CD2	2.85	0.54
1:U:296:TRP:O	1:U:300:ILE:HD12	2.06	0.54
1:W:525:SER:H	1:W:562:GLU:HB2	1.72	0.54
1:W:589:GLN:HA	1:1:496:ASN:HD22	1.71	0.54
1:W:695:ASN:OD1	1:W:696:PRO:HD2	2.07	0.54
1:Z:479:PRO:HB3	1:h:510:LEU:HD12	1.88	0.54
1:Z:487:ARG:HD3	1:Z:533:PHE:CD1	2.43	0.54
1:g:397:TYR:C	1:g:397:TYR:CD2	2.85	0.54
1:h:487:ARG:HD3	1:h:533:PHE:CD1	2.43	0.54
1:l:487:ARG:HD3	1:l:533:PHE:CD1	2.43	0.54
1:m:397:TYR:CD2	1:m:397:TYR:C	2.85	0.54
1:m:523:MET:CE	1:m:523:MET:CA	2.85	0.54
1:n:405:THR:HG21	1:q:337:THR:HG22	1.90	0.54
1:n:713:THR:HA	1:q:392:PHE:CE2	2.42	0.54
1:r:303:ASN:HA	1:r:689:GLU:HB2	1.90	0.54
1:r:713:THR:HA	1:w:392:PHE:CE2	2.43	0.54
1:s:296:TRP:O	1:s:300:ILE:HD12	2.06	0.54
1:t:426:HIS:CE1	1:t:607:GLN:HE21	2.17	0.54
1:t:525:SER:H	1:t:562:GLU:HB2	1.72	0.54
1:u:695:ASN:OD1	1:u:696:PRO:HD2	2.07	0.54
1:x:326:ASN:OD1	1:x:329:THR:OG1	2.25	0.54
1:y:326:ASN:OD1	1:y:329:THR:OG1	2.25	0.54
1:z:397:TYR:C	1:z:397:TYR:CD2	2.85	0.54
1:z:418:VAL:HG21	1:z:637:PHE:HB3	1.90	0.54
1:5:418:VAL:HG21	1:5:637:PHE:HB3	1.90	0.54
1:7:303:ASN:HA	1:7:689:GLU:HB2	1.90	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:8:487:ARG:HD3	1:8:533:PHE:CD1	2.43	0.54
1:A:589:GLN:HA	1:e:496:ASN:HD22	1.72	0.54
1:C:397:TYR:CD2	1:C:397:TYR:C	2.85	0.54
1:C:418:VAL:HG21	1:C:637:PHE:HB3	1.90	0.54
1:D:296:TRP:O	1:D:300:ILE:HD12	2.06	0.54
1:E:657:PRO:HB3	1:S:371:MET:HE2	1.88	0.54
1:F:326:ASN:OD1	1:F:329:THR:OG1	2.25	0.54
1:G:710:VAL:HB	1:G:713:THR:OG1	2.08	0.54
1:H:418:VAL:HG21	1:H:637:PHE:HB3	1.90	0.54
1:H:447:ARG:NH2	1:S:551:ASN:OD1	2.41	0.54
1:H:496:ASN:HD22	1:g:589:GLN:HA	1.72	0.54
1:I:464:GLN:HB3	1:N:549:LYS:HB2	1.88	0.54
1:L:418:VAL:HG21	1:L:637:PHE:HB3	1.90	0.54
1:P:525:SER:H	1:P:562:GLU:HB2	1.72	0.54
1:Q:418:VAL:HG21	1:Q:637:PHE:HB3	1.90	0.54
1:T:523:MET:CE	1:T:523:MET:CA	2.85	0.54
1:U:426:HIS:HE1	1:U:607:GLN:NE2	2.01	0.54
1:V:710:VAL:HB	1:V:713:THR:OG1	2.08	0.54
1:W:418:VAL:HG21	1:W:637:PHE:HB3	1.90	0.54
1:X:277:THR:HG21	1:X:395:LEU:HD11	1.89	0.54
1:a:296:TRP:NE1	1:a:300:ILE:HD11	2.23	0.54
1:c:296:TRP:NE1	1:c:300:ILE:HD11	2.23	0.54
1:c:487:ARG:HD3	1:c:533:PHE:CD1	2.43	0.54
1:d:397:TYR:CD2	1:d:397:TYR:C	2.85	0.54
1:e:296:TRP:NE1	1:e:300:ILE:HD11	2.23	0.54
1:e:487:ARG:HD3	1:e:533:PHE:CD1	2.43	0.54
1:g:418:VAL:HG21	1:g:637:PHE:HB3	1.90	0.54
1:k:296:TRP:O	1:k:300:ILE:HD12	2.06	0.54
1:o:326:ASN:OD1	1:o:329:THR:OG1	2.25	0.54
1:o:392:PHE:CE2	1:q:713:THR:HA	2.43	0.54
1:p:296:TRP:NE1	1:p:300:ILE:HD11	2.23	0.54
1:p:525:SER:H	1:p:562:GLU:HB2	1.72	0.54
1:u:418:VAL:HG21	1:u:637:PHE:HB3	1.90	0.54
1:v:326:ASN:OD1	1:v:329:THR:OG1	2.25	0.54
1:x:695:ASN:OD1	1:x:696:PRO:HD2	2.07	0.54
1:1:296:TRP:NE1	1:1:300:ILE:HD11	2.23	0.54
1:1:657:PRO:HB3	1:3:371:MET:HE2	1.88	0.54
1:3:326:ASN:OD1	1:3:329:THR:OG1	2.25	0.54
1:3:397:TYR:CD2	1:3:397:TYR:C	2.85	0.54
1:5:525:SER:H	1:5:562:GLU:HB2	1.72	0.54
1:6:418:VAL:HG21	1:6:637:PHE:HB3	1.90	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:8:695:ASN:OD1	1:8:696:PRO:HD2	2.07	0.54
1:B:303:ASN:HA	1:B:689:GLU:HB2	1.90	0.54
1:D:296:TRP:NE1	1:D:300:ILE:HD11	2.23	0.54
1:E:429:SER:OG	1:E:431:ASP:OD1	2.23	0.54
1:E:440:GLN:O	1:E:464:GLN:NE2	2.28	0.54
1:E:487:ARG:HD3	1:E:533:PHE:CD1	2.43	0.54
1:E:496:ASN:HD22	1:X:589:GLN:HA	1.71	0.54
1:G:303:ASN:HA	1:G:689:GLU:HB2	1.90	0.54
1:L:296:TRP:NE1	1:L:300:ILE:HD11	2.23	0.54
1:N:303:ASN:HA	1:N:689:GLU:HB2	1.90	0.54
1:N:589:GLN:HA	1:U:496:ASN:HD22	1.71	0.54
1:P:710:VAL:HB	1:P:713:THR:OG1	2.08	0.54
1:Q:326:ASN:OD1	1:Q:329:THR:OG1	2.25	0.54
1:R:277:THR:HG21	1:R:395:LEU:HD11	1.89	0.54
1:T:418:VAL:HG21	1:T:637:PHE:HB3	1.90	0.54
1:T:509:HIS:HA	1:T:514:ASP:HA	1.89	0.54
1:V:296:TRP:NE1	1:V:300:ILE:HD11	2.23	0.54
1:V:303:ASN:HA	1:V:689:GLU:HB2	1.90	0.54
1:X:326:ASN:OD1	1:X:329:THR:OG1	2.25	0.54
1:X:695:ASN:OD1	1:X:696:PRO:HD2	2.07	0.54
1:Y:296:TRP:NE1	1:Y:300:ILE:HD11	2.23	0.54
1:Z:496:ASN:HD22	1:t:589:GLN:HA	1.71	0.54
1:Z:525:SER:H	1:Z:562:GLU:HB2	1.72	0.54
1:a:397:TYR:CD2	1:a:397:TYR:C	2.85	0.54
1:b:303:ASN:HA	1:b:689:GLU:HB2	1.90	0.54
1:c:426:HIS:CE1	1:c:607:GLN:HE21	2.17	0.54
1:d:509:HIS:HA	1:d:514:ASP:HA	1.89	0.54
1:e:426:HIS:CE1	1:e:607:GLN:HE21	2.17	0.54
1:f:525:SER:H	1:f:562:GLU:HB2	1.72	0.54
1:i:303:ASN:HA	1:i:689:GLU:HB2	1.90	0.54
1:i:589:GLN:HA	1:s:496:ASN:HD22	1.71	0.54
1:j:525:SER:H	1:j:562:GLU:HB2	1.72	0.54
1:k:296:TRP:NE1	1:k:300:ILE:HD11	2.23	0.54
1:m:509:HIS:HA	1:m:514:ASP:HA	1.89	0.54
1:n:397:TYR:CD2	1:n:397:TYR:C	2.85	0.54
1:o:296:TRP:NE1	1:o:300:ILE:HD11	2.23	0.54
1:p:303:ASN:HA	1:p:689:GLU:HB2	1.90	0.54
1:p:695:ASN:OD1	1:p:696:PRO:HD2	2.07	0.54
1:q:277:THR:HG21	1:q:395:LEU:HD11	1.89	0.54
1:r:509:HIS:HA	1:r:514:ASP:HA	1.89	0.54
1:s:418:VAL:HG21	1:s:637:PHE:HB3	1.90	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:t:303:ASN:HA	1:t:689:GLU:HB2	1.90	0.54
1:u:525:SER:H	1:u:562:GLU:HB2	1.72	0.54
1:v:296:TRP:NE1	1:v:300:ILE:HD11	2.23	0.54
1:x:418:VAL:HG21	1:x:637:PHE:HB3	1.90	0.54
1:y:426:HIS:CE1	1:y:607:GLN:HE21	2.17	0.54
1:z:296:TRP:NE1	1:z:300:ILE:HD11	2.23	0.54
1:z:303:ASN:HA	1:z:689:GLU:HB2	1.90	0.54
1:z:523:MET:CE	1:z:523:MET:CA	2.85	0.54
1:1:303:ASN:HA	1:1:689:GLU:HB2	1.90	0.54
1:1:326:ASN:OD1	1:1:329:THR:OG1	2.25	0.54
1:1:525:SER:H	1:1:562:GLU:HB2	1.72	0.54
1:3:296:TRP:NE1	1:3:300:ILE:HD11	2.23	0.54
1:7:345:ASP:O	1:7:346:SER:CB	2.54	0.54
1:8:525:SER:H	1:8:562:GLU:HB2	1.72	0.54
1:A:296:TRP:NE1	1:A:300:ILE:HD11	2.23	0.54
1:B:296:TRP:NE1	1:B:300:ILE:HD11	2.23	0.54
1:B:326:ASN:OD1	1:B:329:THR:OG1	2.25	0.54
1:B:397:TYR:CD2	1:B:397:TYR:C	2.85	0.54
1:B:525:SER:H	1:B:562:GLU:HB2	1.72	0.54
1:C:589:GLN:HA	1:5:496:ASN:HD22	1.72	0.54
1:F:418:VAL:HG21	1:F:637:PHE:HB3	1.90	0.54
1:F:426:HIS:CE1	1:F:607:GLN:HE21	2.17	0.54
1:I:426:HIS:CE1	1:I:607:GLN:HE21	2.17	0.54
1:L:303:ASN:HA	1:L:689:GLU:HB2	1.90	0.54
1:N:397:TYR:CD2	1:N:397:TYR:C	2.85	0.54
1:N:418:VAL:HG21	1:N:637:PHE:HB3	1.90	0.54
1:R:440:GLN:O	1:R:464:GLN:NE2	2.28	0.54
1:S:392:PHE:CE2	1:e:713:THR:HA	2.42	0.54
1:T:496:ASN:HD22	1:q:589:GLN:HA	1.72	0.54
1:T:695:ASN:OD1	1:T:696:PRO:HD2	2.07	0.54
1:U:418:VAL:HG21	1:U:637:PHE:HB3	1.90	0.54
1:U:523:MET:CE	1:U:523:MET:CA	2.85	0.54
1:X:296:TRP:NE1	1:X:300:ILE:HD11	2.23	0.54
1:Y:345:ASP:O	1:Y:346:SER:CB	2.54	0.54
1:Y:525:SER:H	1:Y:562:GLU:HB2	1.72	0.54
1:Z:695:ASN:OD1	1:Z:696:PRO:HD2	2.07	0.54
1:Z:710:VAL:HB	1:Z:713:THR:OG1	2.08	0.54
1:b:277:THR:HG21	1:b:395:LEU:HD11	1.89	0.54
1:b:296:TRP:NE1	1:b:300:ILE:HD11	2.23	0.54
1:c:418:VAL:HG21	1:c:637:PHE:HB3	1.90	0.54
1:e:418:VAL:HG21	1:e:637:PHE:HB3	1.90	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:f:296:TRP:NE1	1:f:300:ILE:HD11	2.23	0.54
1:i:418:VAL:HG21	1:i:637:PHE:HB3	1.90	0.54
1:j:303:ASN:HA	1:j:689:GLU:HB2	1.90	0.54
1:j:487:ARG:HD3	1:j:533:PHE:CD1	2.43	0.54
1:m:487:ARG:HD3	1:m:533:PHE:CD1	2.43	0.54
1:m:695:ASN:OD1	1:m:696:PRO:HD2	2.07	0.54
1:n:509:HIS:HA	1:n:514:ASP:HA	1.89	0.54
1:o:277:THR:HG21	1:o:395:LEU:HD11	1.89	0.54
1:q:710:VAL:HB	1:q:713:THR:OG1	2.08	0.54
1:t:277:THR:HG21	1:t:395:LEU:HD11	1.88	0.54
1:t:710:VAL:HB	1:t:713:THR:OG1	2.08	0.54
1:w:487:ARG:HD3	1:w:533:PHE:CD1	2.43	0.54
1:x:509:HIS:HA	1:x:514:ASP:HA	1.89	0.54
1:y:418:VAL:HG21	1:y:637:PHE:HB3	1.90	0.54
1:5:710:VAL:HB	1:5:713:THR:OG1	2.08	0.54
1:7:296:TRP:NE1	1:7:300:ILE:HD11	2.23	0.54
1:A:248:ALA:HB2	1:L:654:PRO:HG3	1.90	0.53
1:B:418:VAL:HG21	1:B:637:PHE:HB3	1.90	0.53
1:C:487:ARG:HD3	1:C:533:PHE:CD1	2.43	0.53
1:E:296:TRP:NE1	1:E:300:ILE:HD11	2.23	0.53
1:F:487:ARG:HD3	1:F:533:PHE:CD1	2.43	0.53
1:G:277:THR:HG21	1:G:395:LEU:HD11	1.88	0.53
1:G:426:HIS:CE1	1:G:607:GLN:HE21	2.17	0.53
1:H:487:ARG:HD3	1:H:533:PHE:CD1	2.43	0.53
1:I:525:SER:H	1:I:562:GLU:HB2	1.72	0.53
1:M:277:THR:HG21	1:M:395:LEU:HD11	1.89	0.53
1:P:487:ARG:HD3	1:P:533:PHE:CD1	2.43	0.53
1:R:710:VAL:HB	1:R:713:THR:OG1	2.08	0.53
1:S:509:HIS:HA	1:S:514:ASP:HA	1.89	0.53
1:T:487:ARG:HD3	1:T:533:PHE:CD1	2.43	0.53
1:U:296:TRP:NE1	1:U:300:ILE:HD11	2.23	0.53
1:X:418:VAL:HG21	1:X:637:PHE:HB3	1.90	0.53
1:Z:418:VAL:HG21	1:Z:637:PHE:HB3	1.90	0.53
1:b:523:MET:CE	1:b:523:MET:CA	2.85	0.53
1:b:525:SER:H	1:b:562:GLU:HB2	1.72	0.53
1:d:345:ASP:O	1:d:346:SER:CB	2.54	0.53
1:n:487:ARG:HD3	1:n:533:PHE:CD1	2.43	0.53
1:o:695:ASN:OD1	1:o:696:PRO:HD2	2.07	0.53
1:q:429:SER:OG	1:q:431:ASP:OD1	2.24	0.53
1:q:523:MET:CE	1:q:523:MET:CA	2.85	0.53
1:w:296:TRP:NE1	1:w:300:ILE:HD11	2.23	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:y:695:ASN:OD1	1:y:696:PRO:HD2	2.07	0.53
1:1:418:VAL:HG21	1:1:637:PHE:HB3	1.90	0.53
1:3:418:VAL:HG21	1:3:637:PHE:HB3	1.90	0.53
1:8:710:VAL:HB	1:8:713:THR:OG1	2.08	0.53
1:E:418:VAL:HG21	1:E:637:PHE:HB3	1.90	0.53
1:E:447:ARG:NH2	1:l:551:ASN:OD1	2.42	0.53
1:G:523:MET:CE	1:G:523:MET:CA	2.85	0.53
1:H:710:VAL:HB	1:H:713:THR:OG1	2.08	0.53
1:J:387:VAL:HG12	1:J:388:GLY:N	2.21	0.53
1:M:525:SER:H	1:M:562:GLU:HB2	1.72	0.53
1:O:551:ASN:OD1	1:w:447:ARG:NH2	2.42	0.53
1:P:303:ASN:HA	1:P:689:GLU:HB2	1.90	0.53
1:Q:397:TYR:CD2	1:Q:397:TYR:C	2.85	0.53
1:R:296:TRP:NE1	1:R:300:ILE:HD11	2.23	0.53
1:S:440:GLN:O	1:S:464:GLN:NE2	2.28	0.53
1:T:510:LEU:HD12	1:q:479:PRO:HB3	1.89	0.53
1:V:695:ASN:OD1	1:V:696:PRO:HD2	2.07	0.53
1:X:387:VAL:HG12	1:X:388:GLY:N	2.21	0.53
1:a:418:VAL:HG21	1:a:637:PHE:HB3	1.90	0.53
1:b:447:ARG:NH2	1:n:551:ASN:OD1	2.42	0.53
1:b:508:TYR:HD2	1:b:517:VAL:HG22	1.74	0.53
1:d:418:VAL:HG21	1:d:637:PHE:HB3	1.90	0.53
1:d:487:ARG:HD3	1:d:533:PHE:CD1	2.43	0.53
1:f:523:MET:CE	1:f:523:MET:CA	2.85	0.53
1:g:487:ARG:HD3	1:g:533:PHE:CD1	2.43	0.53
1:i:397:TYR:CD2	1:i:397:TYR:C	2.85	0.53
1:j:710:VAL:HB	1:j:713:THR:OG1	2.08	0.53
1:k:509:HIS:HA	1:k:514:ASP:HA	1.89	0.53
1:m:418:VAL:HG21	1:m:637:PHE:HB3	1.90	0.53
1:n:345:ASP:O	1:n:346:SER:CB	2.54	0.53
1:o:387:VAL:HG12	1:o:388:GLY:N	2.21	0.53
1:o:418:VAL:HG21	1:o:637:PHE:HB3	1.90	0.53
1:o:589:GLN:HA	1:w:496:ASN:HD22	1.72	0.53
1:p:429:SER:OG	1:p:431:ASP:OD1	2.23	0.53
1:p:487:ARG:HD3	1:p:533:PHE:CD1	2.43	0.53
1:q:296:TRP:NE1	1:q:300:ILE:HD11	2.23	0.53
1:r:695:ASN:OD1	1:r:696:PRO:HD2	2.07	0.53
1:s:350:LEU:HD22	1:s:395:LEU:HD21	1.90	0.53
1:s:523:MET:CE	1:s:523:MET:CA	2.85	0.53
1:t:523:MET:CE	1:t:523:MET:CA	2.85	0.53
1:w:418:VAL:HG21	1:w:637:PHE:HB3	1.90	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:x:397:TYR:CD2	1:x:397:TYR:C	2.85	0.53
1:x:523:MET:CE	1:x:523:MET:CA	2.85	0.53
1:y:487:ARG:HD3	1:y:533:PHE:CD1	2.43	0.53
1:1:397:TYR:C	1:1:397:TYR:CD2	2.85	0.53
1:4:447:ARG:NH2	1:6:551:ASN:OD1	2.42	0.53
1:7:509:HIS:HA	1:7:514:ASP:HA	1.89	0.53
1:8:418:VAL:HG21	1:8:637:PHE:HB3	1.90	0.53
1:C:525:SER:H	1:C:562:GLU:HB2	1.72	0.53
1:D:551:ASN:OD1	1:T:447:ARG:NH2	2.42	0.53
1:E:551:ASN:OD1	1:X:447:ARG:NH2	2.42	0.53
1:F:447:ARG:NH2	1:b:551:ASN:OD1	2.42	0.53
1:F:523:MET:CE	1:F:523:MET:CA	2.85	0.53
1:F:695:ASN:OD1	1:F:696:PRO:HD2	2.07	0.53
1:G:447:ARG:NH2	1:8:551:ASN:OD1	2.42	0.53
1:I:350:LEU:HD22	1:I:395:LEU:HD21	1.90	0.53
1:K:447:ARG:NH2	1:W:551:ASN:OD1	2.42	0.53
1:O:303:ASN:HA	1:O:689:GLU:HB2	1.90	0.53
1:Q:509:HIS:HA	1:Q:514:ASP:HA	1.89	0.53
1:R:429:SER:OG	1:R:431:ASP:OD1	2.23	0.53
1:R:523:MET:CE	1:R:523:MET:CA	2.85	0.53
1:R:551:ASN:OD1	1:k:447:ARG:NH2	2.42	0.53
1:S:695:ASN:OD1	1:S:696:PRO:HD2	2.07	0.53
1:T:549:LYS:HB2	1:q:464:GLN:HB3	1.89	0.53
1:V:487:ARG:HD3	1:V:533:PHE:CD1	2.43	0.53
1:W:296:TRP:NE1	1:W:300:ILE:HD11	2.23	0.53
1:Z:551:ASN:OD1	1:t:447:ARG:NH2	2.42	0.53
1:a:487:ARG:HD3	1:a:533:PHE:CD1	2.43	0.53
1:c:551:ASN:OD1	1:v:447:ARG:NH2	2.42	0.53
1:d:551:ASN:OD1	1:f:447:ARG:NH2	2.42	0.53
1:f:277:THR:HG21	1:f:395:LEU:HD11	1.89	0.53
1:f:508:TYR:HD2	1:f:517:VAL:HG22	1.74	0.53
1:h:277:THR:HG21	1:h:395:LEU:HD11	1.89	0.53
1:k:551:ASN:OD1	1:m:447:ARG:NH2	2.42	0.53
1:k:710:VAL:HB	1:k:713:THR:OG1	2.08	0.53
1:l:296:TRP:NE1	1:l:300:ILE:HD11	2.23	0.53
1:l:303:ASN:HA	1:l:689:GLU:HB2	1.90	0.53
1:l:350:LEU:HD22	1:l:395:LEU:HD21	1.90	0.53
1:n:418:VAL:HG21	1:n:637:PHE:HB3	1.90	0.53
1:s:296:TRP:NE1	1:s:300:ILE:HD11	2.23	0.53
1:u:350:LEU:HD22	1:u:395:LEU:HD21	1.90	0.53
1:u:509:HIS:HA	1:u:514:ASP:HA	1.89	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:w:440:GLN:O	1:w:464:GLN:NE2	2.28	0.53
1:2:387:VAL:HG12	1:2:388:GLY:N	2.21	0.53
1:5:487:ARG:HD3	1:5:533:PHE:CD1	2.43	0.53
1:7:525:SER:H	1:7:562:GLU:HB2	1.72	0.53
1:C:654:PRO:HG3	1:o:248:ALA:HB2	1.90	0.53
1:D:440:GLN:O	1:D:464:GLN:NE2	2.28	0.53
1:D:677:GLN:NE2	1:F:402:MET:SD	2.82	0.53
1:D:710:VAL:HB	1:D:713:THR:OG1	2.08	0.53
1:E:248:ALA:HB2	1:I:654:PRO:HG3	1.91	0.53
1:H:523:MET:CE	1:H:523:MET:CA	2.85	0.53
1:I:303:ASN:HA	1:I:689:GLU:HB2	1.90	0.53
1:J:397:TYR:CD2	1:J:397:TYR:C	2.85	0.53
1:J:418:VAL:HG21	1:J:637:PHE:HB3	1.90	0.53
1:N:248:ALA:HB2	1:b:654:PRO:HG3	1.91	0.53
1:Q:523:MET:CE	1:Q:523:MET:CA	2.85	0.53
1:S:418:VAL:HG21	1:S:637:PHE:HB3	1.90	0.53
1:T:296:TRP:NE1	1:T:300:ILE:HD11	2.23	0.53
1:U:350:LEU:HD22	1:U:395:LEU:HD21	1.90	0.53
1:X:303:ASN:HA	1:X:689:GLU:HB2	1.90	0.53
1:Y:509:HIS:HA	1:Y:514:ASP:HA	1.89	0.53
1:Z:429:SER:OG	1:Z:431:ASP:OD1	2.23	0.53
1:a:710:VAL:HB	1:a:713:THR:OG1	2.08	0.53
1:c:508:TYR:HD2	1:c:517:VAL:HG22	1.74	0.53
1:d:710:VAL:HB	1:d:713:THR:OG1	2.08	0.53
1:e:525:SER:H	1:e:562:GLU:HB2	1.72	0.53
1:f:551:ASN:OD1	1:y:447:ARG:NH2	2.42	0.53
1:f:713:THR:HA	1:2:392:PHE:CE2	2.43	0.53
1:h:525:SER:H	1:h:562:GLU:HB2	1.72	0.53
1:k:440:GLN:O	1:k:464:GLN:NE2	2.28	0.53
1:o:303:ASN:HA	1:o:689:GLU:HB2	1.90	0.53
1:o:447:ARG:NH2	1:w:551:ASN:OD1	2.42	0.53
1:r:418:VAL:HG21	1:r:637:PHE:HB3	1.90	0.53
1:3:710:VAL:HB	1:3:713:THR:OG1	2.08	0.53
1:6:296:TRP:NE1	1:6:300:ILE:HD11	2.23	0.53
1:A:277:THR:HG21	1:A:395:LEU:HD11	1.89	0.53
1:C:447:ARG:NH2	1:5:551:ASN:OD1	2.42	0.53
1:D:509:HIS:HA	1:D:514:ASP:HA	1.89	0.53
1:D:695:ASN:OD1	1:D:696:PRO:HD2	2.07	0.53
1:E:508:TYR:HD2	1:E:517:VAL:HG22	1.74	0.53
1:E:695:ASN:OD1	1:E:696:PRO:HD2	2.07	0.53
1:G:487:ARG:HD3	1:G:533:PHE:CD1	2.43	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:551:ASN:OD1	1:P:447:ARG:NH2	2.42	0.53
1:L:496:ASN:HD22	1:Y:589:GLN:HA	1.71	0.53
1:L:525:SER:H	1:L:562:GLU:HB2	1.72	0.53
1:O:248:ALA:HB2	1:T:654:PRO:HG3	1.91	0.53
1:O:296:TRP:NE1	1:O:300:ILE:HD11	2.23	0.53
1:O:677:GLN:NE2	1:T:402:MET:SD	2.82	0.53
1:Q:447:ARG:NH2	1:Y:551:ASN:OD1	2.42	0.53
1:R:654:PRO:HG3	1:d:248:ALA:HB2	1.91	0.53
1:U:397:TYR:CD2	1:U:397:TYR:C	2.85	0.53
1:X:248:ALA:HB2	1:g:654:PRO:HG3	1.91	0.53
1:X:509:HIS:HA	1:X:514:ASP:HA	1.89	0.53
1:X:525:SER:H	1:X:562:GLU:HB2	1.72	0.53
1:a:447:ARG:NH2	1:v:551:ASN:OD1	2.42	0.53
1:c:350:LEU:HD22	1:c:395:LEU:HD21	1.90	0.53
1:c:710:VAL:HB	1:c:713:THR:OG1	2.08	0.53
1:d:654:PRO:HG3	1:j:248:ALA:HB2	1.91	0.53
1:e:508:TYR:HD2	1:e:517:VAL:HG22	1.74	0.53
1:e:710:VAL:HB	1:e:713:THR:OG1	2.08	0.53
1:f:654:PRO:HG3	1:i:248:ALA:HB2	1.91	0.53
1:g:525:SER:H	1:g:562:GLU:HB2	1.72	0.53
1:j:277:THR:HG21	1:j:395:LEU:HD11	1.89	0.53
1:k:677:GLN:NE2	1:y:402:MET:SD	2.82	0.53
1:n:710:VAL:HB	1:n:713:THR:OG1	2.08	0.53
1:o:487:ARG:HD3	1:o:533:PHE:CD1	2.43	0.53
1:o:525:SER:H	1:o:562:GLU:HB2	1.72	0.53
1:t:487:ARG:HD3	1:t:533:PHE:CD1	2.43	0.53
1:u:303:ASN:HA	1:u:689:GLU:HB2	1.90	0.53
1:u:487:ARG:HD3	1:u:533:PHE:CD1	2.43	0.53
1:u:654:PRO:HG3	1:w:248:ALA:HB2	1.91	0.53
1:v:397:TYR:C	1:v:397:TYR:CD2	2.85	0.53
1:x:447:ARG:NH2	1:7:551:ASN:OD1	2.42	0.53
1:y:523:MET:CE	1:y:523:MET:CA	2.85	0.53
1:z:525:SER:H	1:z:562:GLU:HB2	1.72	0.53
1:2:397:TYR:CD2	1:2:397:TYR:C	2.85	0.53
1:8:296:TRP:NE1	1:8:300:ILE:HD11	2.23	0.53
1:A:397:TYR:CD2	1:A:397:TYR:C	2.85	0.53
1:C:710:VAL:HB	1:C:713:THR:OG1	2.08	0.53
1:D:402:MET:SD	1:m:677:GLN:NE2	2.82	0.53
1:E:349:GLN:HE21	1:E:349:GLN:CA	2.04	0.53
1:E:677:GLN:NE2	1:I:402:MET:SD	2.82	0.53
1:H:551:ASN:OD1	1:g:447:ARG:NH2	2.42	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:487:ARG:HD3	1:I:533:PHE:CD1	2.43	0.53
1:I:551:ASN:OD1	1:U:447:ARG:NH2	2.42	0.53
1:J:303:ASN:HA	1:J:689:GLU:HB2	1.90	0.53
1:N:296:TRP:NE1	1:N:300:ILE:HD11	2.23	0.53
1:N:447:ARG:NH2	1:U:551:ASN:OD1	2.42	0.53
1:P:296:TRP:NE1	1:P:300:ILE:HD11	2.23	0.53
1:Q:508:TYR:HD2	1:Q:517:VAL:HG22	1.74	0.53
1:a:349:GLN:HE21	1:a:349:GLN:CA	2.04	0.53
1:a:508:TYR:HD2	1:a:517:VAL:HG22	1.74	0.53
1:b:509:HIS:HA	1:b:514:ASP:HA	1.89	0.53
1:c:402:MET:SD	1:7:677:GLN:NE2	2.82	0.53
1:c:525:SER:H	1:c:562:GLU:HB2	1.72	0.53
1:i:296:TRP:NE1	1:i:300:ILE:HD11	2.23	0.53
1:i:447:ARG:NH2	1:s:551:ASN:OD1	2.42	0.53
1:j:296:TRP:NE1	1:j:300:ILE:HD11	2.23	0.53
1:k:303:ASN:HA	1:k:689:GLU:HB2	1.90	0.53
1:l:248:ALA:HB2	1:m:654:PRO:HG3	1.91	0.53
1:l:508:TYR:HD2	1:l:517:VAL:HG22	1.74	0.53
1:m:296:TRP:NE1	1:m:300:ILE:HD11	2.23	0.53
1:o:509:HIS:HA	1:o:514:ASP:HA	1.89	0.53
1:r:440:GLN:O	1:r:464:GLN:NE2	2.28	0.53
1:s:525:SER:H	1:s:562:GLU:HB2	1.72	0.53
1:u:296:TRP:NE1	1:u:300:ILE:HD11	2.23	0.53
1:w:349:GLN:HE21	1:w:349:GLN:CA	2.04	0.53
1:w:508:TYR:HD2	1:w:517:VAL:HG22	1.74	0.53
1:1:710:VAL:HB	1:1:713:THR:OG1	2.08	0.53
1:2:418:VAL:HG21	1:2:637:PHE:HB3	1.90	0.53
1:2:487:ARG:HD3	1:2:533:PHE:CD1	2.43	0.53
1:3:487:ARG:HD3	1:3:533:PHE:CD1	2.43	0.53
1:5:326:ASN:OD1	1:5:329:THR:OG1	2.25	0.53
1:5:523:MET:CA	1:5:523:MET:CE	2.85	0.53
1:8:429:SER:OG	1:8:431:ASP:OD1	2.23	0.53
1:B:677:GLN:NE2	1:M:402:MET:SD	2.82	0.53
1:F:248:ALA:HB2	1:U:654:PRO:HG3	1.91	0.53
1:H:296:TRP:NE1	1:H:300:ILE:HD11	2.23	0.53
1:H:326:ASN:OD1	1:H:329:THR:OG1	2.25	0.53
1:I:296:TRP:NE1	1:I:300:ILE:HD11	2.23	0.53
1:I:447:ARG:NH2	1:N:551:ASN:OD1	2.42	0.53
1:I:509:HIS:HA	1:I:514:ASP:HA	1.89	0.53
1:I:523:MET:CE	1:I:523:MET:CA	2.85	0.53
1:K:296:TRP:NE1	1:K:300:ILE:HD11	2.23	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:387:VAL:HG12	1:K:388:GLY:N	2.21	0.53
1:L:387:VAL:HG12	1:L:388:GLY:N	2.21	0.53
1:P:248:ALA:HB2	1:n:654:PRO:HG3	1.91	0.53
1:P:496:ASN:HD22	1:p:589:GLN:HA	1.71	0.53
1:S:402:MET:SD	1:e:677:GLN:NE2	2.81	0.53
1:S:487:ARG:HD3	1:S:533:PHE:CD1	2.43	0.53
1:T:508:TYR:HD2	1:T:517:VAL:HG22	1.74	0.53
1:X:487:ARG:HD3	1:X:533:PHE:CD1	2.43	0.53
1:Y:677:GLN:NE2	1:e:402:MET:SD	2.82	0.53
1:Z:296:TRP:NE1	1:Z:300:ILE:HD11	2.23	0.53
1:d:402:MET:SD	1:j:677:GLN:NE2	2.82	0.53
1:e:350:LEU:HD22	1:e:395:LEU:HD21	1.90	0.53
1:f:387:VAL:HG12	1:f:388:GLY:N	2.21	0.53
1:g:710:VAL:HB	1:g:713:THR:OG1	2.08	0.53
1:i:551:ASN:OD1	1:u:447:ARG:NH2	2.42	0.53
1:k:418:VAL:HG21	1:k:637:PHE:HB3	1.90	0.53
1:k:487:ARG:HD3	1:k:533:PHE:CD1	2.43	0.53
1:k:695:ASN:OD1	1:k:696:PRO:HD2	2.07	0.53
1:l:677:GLN:NE2	1:m:402:MET:SD	2.82	0.53
1:p:418:VAL:HG21	1:p:637:PHE:HB3	1.90	0.53
1:r:487:ARG:HD3	1:r:533:PHE:CD1	2.43	0.53
1:s:397:TYR:C	1:s:397:TYR:CD2	2.85	0.53
1:s:447:ARG:NH2	1:u:551:ASN:OD1	2.42	0.53
1:s:654:PRO:HG3	1:y:248:ALA:HB2	1.91	0.53
1:u:402:MET:SD	1:w:677:GLN:NE2	2.82	0.53
1:u:710:VAL:HB	1:u:713:THR:OG1	2.08	0.53
1:v:277:THR:HG21	1:v:395:LEU:HD11	1.89	0.53
1:w:303:ASN:HA	1:w:689:GLU:HB2	1.90	0.53
1:w:695:ASN:OD1	1:w:696:PRO:HD2	2.07	0.53
1:x:508:TYR:HD2	1:x:517:VAL:HG22	1.74	0.53
1:z:387:VAL:HG12	1:z:388:GLY:N	2.21	0.53
1:z:496:ASN:HD22	1:7:589:GLN:HA	1.71	0.53
1:z:508:TYR:HD2	1:z:517:VAL:HG22	1.74	0.53
1:2:303:ASN:HA	1:2:689:GLU:HB2	1.90	0.53
1:3:508:TYR:HD2	1:3:517:VAL:HG22	1.74	0.53
1:5:296:TRP:NE1	1:5:300:ILE:HD11	2.23	0.53
1:A:677:GLN:NE2	1:L:402:MET:SD	2.82	0.53
1:B:551:ASN:OD1	1:6:447:ARG:NH2	2.42	0.53
1:D:418:VAL:HG21	1:D:637:PHE:HB3	1.90	0.53
1:D:487:ARG:HD3	1:D:533:PHE:CD1	2.43	0.53
1:E:303:ASN:HA	1:E:689:GLU:HB2	1.90	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:397:TYR:CD2	1:E:397:TYR:C	2.85	0.53
1:E:518:ASN:HB3	1:X:474:SER:HA	1.91	0.53
1:G:518:ASN:HB3	1:M:474:SER:HA	1.91	0.53
1:H:402:MET:SD	1:V:677:GLN:NE2	2.82	0.53
1:H:677:GLN:NE2	1:3:402:MET:SD	2.82	0.53
1:I:710:VAL:HB	1:I:713:THR:OG1	2.08	0.53
1:J:447:ARG:NH2	1:p:551:ASN:OD1	2.42	0.53
1:L:508:TYR:HD2	1:L:517:VAL:HG22	1.74	0.53
1:O:508:TYR:HD2	1:O:517:VAL:HG22	1.74	0.53
1:P:508:TYR:HD2	1:P:517:VAL:HG22	1.74	0.53
1:P:677:GLN:NE2	1:n:402:MET:SD	2.82	0.53
1:S:525:SER:H	1:S:562:GLU:HB2	1.72	0.53
1:U:525:SER:H	1:U:562:GLU:HB2	1.72	0.53
1:U:677:GLN:NE2	1:l:402:MET:SD	2.82	0.53
1:V:589:GLN:HA	1:j:496:ASN:HD22	1.72	0.53
1:Y:387:VAL:HG12	1:Y:388:GLY:N	2.21	0.53
1:Y:418:VAL:HG21	1:Y:637:PHE:HB3	1.90	0.53
1:a:402:MET:SD	1:5:677:GLN:NE2	2.82	0.53
1:b:418:VAL:HG21	1:b:637:PHE:HB3	1.90	0.53
1:f:509:HIS:HA	1:f:514:ASP:HA	1.89	0.53
1:g:523:MET:CE	1:g:523:MET:CA	2.85	0.53
1:h:402:MET:SD	1:1:677:GLN:NE2	2.82	0.53
1:j:508:TYR:HD2	1:j:517:VAL:HG22	1.74	0.53
1:k:248:ALA:HB2	1:y:654:PRO:HG3	1.91	0.53
1:m:508:TYR:HD2	1:m:517:VAL:HG22	1.74	0.53
1:n:350:LEU:HD22	1:n:395:LEU:HD21	1.90	0.53
1:o:474:SER:HA	1:w:518:ASN:HB3	1.91	0.53
1:t:296:TRP:NE1	1:t:300:ILE:HD11	2.23	0.53
1:v:248:ALA:HB2	1:z:654:PRO:HG3	1.91	0.53
1:w:397:TYR:CD2	1:w:397:TYR:C	2.85	0.53
1:3:303:ASN:HA	1:3:689:GLU:HB2	1.90	0.53
1:6:508:TYR:HD2	1:6:517:VAL:HG22	1.74	0.53
1:7:418:VAL:HG21	1:7:637:PHE:HB3	1.90	0.53
1:B:710:VAL:HB	1:B:713:THR:OG1	2.08	0.53
1:C:350:LEU:HD22	1:C:395:LEU:HD21	1.90	0.53
1:C:551:ASN:ND2	1:r:463:SER:OG	2.41	0.53
1:D:303:ASN:HA	1:D:689:GLU:HB2	1.90	0.53
1:F:345:ASP:O	1:F:346:SER:CB	2.54	0.53
1:G:296:TRP:NE1	1:G:300:ILE:HD11	2.23	0.53
1:G:508:TYR:HD2	1:G:517:VAL:HG22	1.74	0.53
1:H:587:ASN:OD1	1:H:588:ARG:N	2.42	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:296:TRP:NE1	1:J:300:ILE:HD11	2.23	0.53
1:K:418:VAL:HG21	1:K:637:PHE:HB3	1.90	0.53
1:K:551:ASN:OD1	1:1:447:ARG:NH2	2.42	0.53
1:L:447:ARG:NH2	1:Q:551:ASN:OD1	2.42	0.53
1:L:463:SER:OG	1:Q:551:ASN:ND2	2.42	0.53
1:N:587:ASN:OD1	1:N:588:ARG:N	2.42	0.53
1:P:277:THR:HG21	1:P:395:LEU:HD11	1.89	0.53
1:P:587:ASN:OD1	1:P:588:ARG:N	2.42	0.53
1:Q:303:ASN:HA	1:Q:689:GLU:HB2	1.90	0.53
1:R:345:ASP:O	1:R:346:SER:CB	2.54	0.53
1:S:296:TRP:NE1	1:S:300:ILE:HD11	2.23	0.53
1:T:587:ASN:OD1	1:T:588:ARG:N	2.42	0.53
1:U:509:HIS:HA	1:U:514:ASP:HA	1.89	0.53
1:V:418:VAL:HG21	1:V:637:PHE:HB3	1.90	0.53
1:W:447:ARG:NH2	1:1:551:ASN:OD1	2.42	0.53
1:W:508:TYR:HD2	1:W:517:VAL:HG22	1.74	0.53
1:W:654:PRO:HG3	1:4:248:ALA:HB2	1.91	0.53
1:X:508:TYR:HD2	1:X:517:VAL:HG22	1.74	0.53
1:f:418:VAL:HG21	1:f:637:PHE:HB3	1.90	0.53
1:g:508:TYR:HD2	1:g:517:VAL:HG22	1.74	0.53
1:p:677:GLN:NE2	1:5:402:MET:SD	2.82	0.53
1:q:508:TYR:HD2	1:q:517:VAL:HG22	1.74	0.53
1:r:518:ASN:HB3	1:5:474:SER:HA	1.91	0.53
1:u:523:MET:CE	1:u:523:MET:CA	2.85	0.53
1:x:551:ASN:OD1	1:z:447:ARG:NH2	2.42	0.53
1:x:551:ASN:ND2	1:z:463:SER:OG	2.42	0.53
1:2:296:TRP:NE1	1:2:300:ILE:HD11	2.23	0.53
1:4:296:TRP:NE1	1:4:300:ILE:HD11	2.23	0.53
1:4:387:VAL:HG12	1:4:388:GLY:N	2.21	0.53
1:4:418:VAL:HG21	1:4:637:PHE:HB3	1.90	0.53
1:5:587:ASN:OD1	1:5:588:ARG:N	2.42	0.53
1:7:387:VAL:HG12	1:7:388:GLY:N	2.21	0.53
1:7:508:TYR:HD2	1:7:517:VAL:HG22	1.73	0.53
1:A:518:ASN:HB3	1:3:474:SER:HA	1.91	0.53
1:B:654:PRO:HG3	1:a:248:ALA:HB2	1.91	0.53
1:C:508:TYR:HD2	1:C:517:VAL:HG22	1.74	0.53
1:D:523:MET:CE	1:D:523:MET:CA	2.85	0.53
1:G:463:SER:OG	1:8:551:ASN:ND2	2.42	0.53
1:H:508:TYR:HD2	1:H:517:VAL:HG22	1.74	0.53
1:J:402:MET:SD	1:b:677:GLN:NE2	2.82	0.53
1:J:487:ARG:HD3	1:J:533:PHE:CD1	2.43	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:426:HIS:CE1	1:K:607:GLN:HE21	2.17	0.53
1:L:248:ALA:HB2	1:8:654:PRO:HG3	1.91	0.53
1:M:296:TRP:NE1	1:M:300:ILE:HD11	2.23	0.53
1:M:677:GLN:NE2	1:p:402:MET:SD	2.82	0.53
1:Q:474:SER:HA	1:Y:518:ASN:HB3	1.91	0.53
1:R:677:GLN:NE2	1:X:402:MET:SD	2.82	0.53
1:S:349:GLN:HE21	1:S:349:GLN:CA	2.04	0.53
1:U:248:ALA:HB2	1:l:654:PRO:HG3	1.91	0.53
1:V:402:MET:SD	1:h:677:GLN:NE2	2.82	0.53
1:X:551:ASN:ND2	1:l:463:SER:OG	2.42	0.53
1:X:677:GLN:NE2	1:g:402:MET:SD	2.82	0.53
1:Z:447:ARG:NH2	1:h:551:ASN:OD1	2.42	0.53
1:a:523:MET:CE	1:a:523:MET:CA	2.85	0.53
1:b:387:VAL:HG12	1:b:388:GLY:N	2.21	0.53
1:b:463:SER:OG	1:n:551:ASN:ND2	2.42	0.53
1:d:350:LEU:HD22	1:d:395:LEU:HD21	1.90	0.53
1:d:551:ASN:ND2	1:f:463:SER:OG	2.42	0.53
1:g:677:GLN:NE2	1:j:402:MET:SD	2.82	0.53
1:h:474:SER:HA	1:t:518:ASN:HB3	1.91	0.53
1:i:587:ASN:OD1	1:i:588:ARG:N	2.42	0.53
1:j:474:SER:HA	1:2:518:ASN:HB3	1.91	0.53
1:j:587:ASN:OD1	1:j:588:ARG:N	2.42	0.53
1:q:487:ARG:HD3	1:q:533:PHE:CD1	2.43	0.53
1:r:296:TRP:NE1	1:r:300:ILE:HD11	2.23	0.53
1:r:525:SER:H	1:r:562:GLU:HB2	1.72	0.53
1:s:509:HIS:HA	1:s:514:ASP:HA	1.89	0.53
1:x:303:ASN:HA	1:x:689:GLU:HB2	1.90	0.53
1:x:474:SER:HA	1:7:518:ASN:HB3	1.91	0.53
1:1:508:TYR:HD2	1:1:517:VAL:HG22	1.74	0.53
1:1:654:PRO:HG3	1:3:248:ALA:HB2	1.91	0.53
1:5:508:TYR:HD2	1:5:517:VAL:HG22	1.74	0.53
1:6:487:ARG:HD3	1:6:533:PHE:CD1	2.43	0.53
1:A:418:VAL:HG21	1:A:637:PHE:HB3	1.90	0.52
1:A:551:ASN:OD1	1:3:447:ARG:NH2	2.42	0.52
1:B:447:ARG:NH2	1:4:551:ASN:OD1	2.42	0.52
1:B:508:TYR:HD2	1:B:517:VAL:HG22	1.74	0.52
1:C:402:MET:SD	1:o:677:GLN:NE2	2.82	0.52
1:C:523:MET:CE	1:C:523:MET:CA	2.85	0.52
1:D:248:ALA:HB2	1:F:654:PRO:HG3	1.91	0.52
1:D:463:SER:OG	1:q:551:ASN:ND2	2.41	0.52
1:D:602:PRO:HD3	1:q:481:PRO:HG3	1.91	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:303:ASN:HA	1:F:689:GLU:HB2	1.90	0.52
1:G:677:GLN:NE2	1:Q:402:MET:SD	2.82	0.52
1:H:310:ARG:NE	1:H:683:GLU:OE1	2.41	0.52
1:I:474:SER:HA	1:N:518:ASN:HB3	1.91	0.52
1:I:508:TYR:HD2	1:I:517:VAL:HG22	1.74	0.52
1:J:429:SER:OG	1:J:431:ASP:OD1	2.24	0.52
1:K:248:ALA:HB2	1:6:654:PRO:HG3	1.91	0.52
1:K:508:TYR:HD2	1:K:517:VAL:HG22	1.74	0.52
1:M:551:ASN:OD1	1:8:447:ARG:NH2	2.42	0.52
1:N:402:MET:SD	1:Q:677:GLN:NE2	2.83	0.52
1:O:402:MET:SD	1:s:677:GLN:NE2	2.82	0.52
1:O:418:VAL:HG21	1:O:637:PHE:HB3	1.90	0.52
1:P:518:ASN:HB3	1:p:474:SER:HA	1.91	0.52
1:R:248:ALA:HB2	1:X:654:PRO:HG3	1.91	0.52
1:R:487:ARG:HD3	1:R:533:PHE:CD1	2.43	0.52
1:R:508:TYR:HD2	1:R:517:VAL:HG22	1.74	0.52
1:V:474:SER:HA	1:j:518:ASN:HB3	1.91	0.52
1:W:487:ARG:HD3	1:W:533:PHE:CD1	2.43	0.52
1:Z:654:PRO:HG3	1:z:248:ALA:HB2	1.91	0.52
1:a:303:ASN:HA	1:a:689:GLU:HB2	1.90	0.52
1:a:387:VAL:HG12	1:a:388:GLY:N	2.21	0.52
1:g:350:LEU:HD22	1:g:395:LEU:HD21	1.90	0.52
1:h:296:TRP:NE1	1:h:300:ILE:HD11	2.23	0.52
1:h:508:TYR:HD2	1:h:517:VAL:HG22	1.74	0.52
1:i:402:MET:SD	1:x:677:GLN:NE2	2.83	0.52
1:i:518:ASN:HB3	1:u:474:SER:HA	1.91	0.52
1:j:426:HIS:CE1	1:j:607:GLN:HE21	2.17	0.52
1:l:418:VAL:HG21	1:l:637:PHE:HB3	1.90	0.52
1:l:587:ASN:OD1	1:l:588:ARG:N	2.42	0.52
1:m:587:ASN:OD1	1:m:588:ARG:N	2.42	0.52
1:o:402:MET:SD	1:q:677:GLN:NE2	2.82	0.52
1:o:508:TYR:HD2	1:o:517:VAL:HG22	1.74	0.52
1:t:508:TYR:HD2	1:t:517:VAL:HG22	1.74	0.52
1:v:418:VAL:HG21	1:v:637:PHE:HB3	1.90	0.52
1:5:310:ARG:NE	1:5:683:GLU:OE1	2.41	0.52
1:A:447:ARG:NH2	1:e:551:ASN:OD1	2.43	0.52
1:A:474:SER:HA	1:e:518:ASN:HB3	1.91	0.52
1:C:677:GLN:NE2	1:P:402:MET:SD	2.82	0.52
1:H:463:SER:OG	1:S:551:ASN:ND2	2.42	0.52
1:H:474:SER:HA	1:S:518:ASN:HB3	1.92	0.52
1:L:509:HIS:HA	1:L:514:ASP:HA	1.89	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:O:518:ASN:HB3	1:w:474:SER:HA	1.91	0.52
1:O:587:ASN:OD1	1:O:588:ARG:N	2.42	0.52
1:O:654:PRO:HG3	1:s:248:ALA:HB2	1.91	0.52
1:T:677:GLN:NE2	1:k:402:MET:SD	2.83	0.52
1:X:551:ASN:OD1	1:l:447:ARG:NH2	2.42	0.52
1:Y:508:TYR:HD2	1:Y:517:VAL:HG22	1.74	0.52
1:Z:551:ASN:ND2	1:t:463:SER:OG	2.42	0.52
1:a:463:SER:OG	1:v:551:ASN:ND2	2.42	0.52
1:a:551:ASN:OD1	1:c:447:ARG:NH2	2.42	0.52
1:c:713:THR:HA	1:r:392:PHE:CE2	2.43	0.52
1:e:447:ARG:NH2	1:3:551:ASN:OD1	2.42	0.52
1:f:402:MET:SD	1:i:677:GLN:NE2	2.82	0.52
1:j:418:VAL:HG21	1:j:637:PHE:HB3	1.90	0.52
1:q:345:ASP:O	1:q:346:SER:CB	2.54	0.52
1:r:551:ASN:ND2	1:5:463:SER:OG	2.42	0.52
1:r:677:GLN:NE2	1:w:402:MET:SD	2.82	0.52
1:s:402:MET:SD	1:y:677:GLN:NE2	2.82	0.52
1:t:677:GLN:NE2	1:x:402:MET:SD	2.82	0.52
1:u:508:TYR:HD2	1:u:517:VAL:HG22	1.74	0.52
1:v:429:SER:OG	1:v:431:ASP:OD1	2.23	0.52
1:y:345:ASP:O	1:y:346:SER:CB	2.54	0.52
1:z:509:HIS:HA	1:z:514:ASP:HA	1.89	0.52
1:z:551:ASN:OD1	1:7:447:ARG:NH2	2.42	0.52
1:2:426:HIS:HE1	1:2:607:GLN:NE2	2.01	0.52
1:3:523:MET:CE	1:3:523:MET:CA	2.85	0.52
1:4:508:TYR:HD2	1:4:517:VAL:HG22	1.74	0.52
1:A:429:SER:OG	1:A:431:ASP:OD1	2.23	0.52
1:D:587:ASN:OD1	1:D:588:ARG:N	2.42	0.52
1:E:474:SER:HA	1:l:518:ASN:HB3	1.91	0.52
1:E:551:ASN:ND2	1:X:463:SER:OG	2.42	0.52
1:F:551:ASN:OD1	1:n:447:ARG:NH2	2.42	0.52
1:F:677:GLN:NE2	1:U:402:MET:SD	2.82	0.52
1:I:551:ASN:ND2	1:U:463:SER:OG	2.42	0.52
1:J:551:ASN:ND2	1:P:463:SER:OG	2.42	0.52
1:J:587:ASN:OD1	1:J:588:ARG:N	2.42	0.52
1:J:654:PRO:HG3	1:b:248:ALA:HB2	1.91	0.52
1:K:463:SER:OG	1:W:551:ASN:ND2	2.43	0.52
1:L:551:ASN:OD1	1:Y:447:ARG:NH2	2.42	0.52
1:M:508:TYR:HD2	1:M:517:VAL:HG22	1.74	0.52
1:O:447:ARG:NH2	1:o:551:ASN:OD1	2.42	0.52
1:O:463:SER:OG	1:o:551:ASN:ND2	2.42	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:P:418:VAL:HG21	1:P:637:PHE:HB3	1.90	0.52
1:R:402:MET:SD	1:d:677:GLN:NE2	2.82	0.52
1:V:587:ASN:OD1	1:V:588:ARG:N	2.42	0.52
1:W:587:ASN:OD1	1:W:588:ARG:N	2.42	0.52
1:Z:587:ASN:OD1	1:Z:588:ARG:N	2.42	0.52
1:b:426:HIS:HE1	1:b:607:GLN:NE2	2.01	0.52
1:c:518:ASN:HB3	1:v:474:SER:HA	1.91	0.52
1:f:248:ALA:HB2	1:2:654:PRO:HG3	1.91	0.52
1:f:426:HIS:HE1	1:f:607:GLN:NE2	2.01	0.52
1:i:508:TYR:HD2	1:i:517:VAL:HG22	1.73	0.52
1:j:463:SER:OG	1:2:551:ASN:ND2	2.42	0.52
1:k:523:MET:CE	1:k:523:MET:CA	2.85	0.52
1:k:587:ASN:OD1	1:k:588:ARG:N	2.42	0.52
1:n:296:TRP:NE1	1:n:300:ILE:HD11	2.23	0.52
1:r:426:HIS:HE1	1:r:607:GLN:NE2	2.01	0.52
1:s:463:SER:OG	1:u:551:ASN:ND2	2.42	0.52
1:t:418:VAL:HG21	1:t:637:PHE:HB3	1.90	0.52
1:v:677:GLN:NE2	1:z:402:MET:SD	2.82	0.52
1:y:303:ASN:HA	1:y:689:GLU:HB2	1.90	0.52
1:y:387:VAL:HG12	1:y:388:GLY:N	2.21	0.52
1:y:587:ASN:OD1	1:y:588:ARG:N	2.42	0.52
1:z:587:ASN:OD1	1:z:588:ARG:N	2.42	0.52
1:1:349:GLN:HE21	1:1:349:GLN:CA	2.04	0.52
1:2:587:ASN:OD1	1:2:588:ARG:N	2.42	0.52
1:3:349:GLN:HE21	1:3:349:GLN:CA	2.04	0.52
1:4:426:HIS:CE1	1:4:607:GLN:HE21	2.17	0.52
1:4:463:SER:OG	1:6:551:ASN:ND2	2.43	0.52
1:A:508:TYR:HD2	1:A:517:VAL:HG22	1.74	0.52
1:A:551:ASN:ND2	1:3:463:SER:OG	2.43	0.52
1:B:474:SER:HA	1:4:518:ASN:HB3	1.91	0.52
1:D:508:TYR:HD2	1:D:517:VAL:HG22	1.74	0.52
1:E:402:MET:SD	1:S:677:GLN:NE2	2.82	0.52
1:F:508:TYR:HD2	1:F:517:VAL:HG22	1.74	0.52
1:F:587:ASN:OD1	1:F:588:ARG:N	2.42	0.52
1:G:418:VAL:HG21	1:G:637:PHE:HB3	1.90	0.52
1:H:248:ALA:HB2	1:3:654:PRO:HG3	1.91	0.52
1:K:402:MET:SD	1:Z:677:GLN:NE2	2.82	0.52
1:L:587:ASN:OD1	1:L:588:ARG:N	2.42	0.52
1:L:677:GLN:NE2	1:8:402:MET:SD	2.82	0.52
1:N:677:GLN:NE2	1:b:402:MET:SD	2.82	0.52
1:S:463:SER:OG	1:g:551:ASN:ND2	2.42	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:X:523:MET:CE	1:X:523:MET:CA	2.85	0.52
1:Z:402:MET:SD	1:z:677:GLN:NE2	2.82	0.52
1:d:296:TRP:NE1	1:d:300:ILE:HD11	2.23	0.52
1:i:509:HIS:HA	1:i:514:ASP:HA	1.89	0.52
1:k:426:HIS:CE1	1:k:607:GLN:HE21	2.17	0.52
1:m:303:ASN:HA	1:m:689:GLU:HB2	1.90	0.52
1:o:587:ASN:OD1	1:o:588:ARG:N	2.42	0.52
1:p:587:ASN:OD1	1:p:588:ARG:N	2.42	0.52
1:r:349:GLN:HE21	1:r:349:GLN:CA	2.04	0.52
1:t:402:MET:SD	1:2:677:GLN:NE2	2.82	0.52
1:t:426:HIS:HE1	1:t:607:GLN:NE2	2.01	0.52
1:v:402:MET:SD	1:6:677:GLN:NE2	2.82	0.52
1:y:508:TYR:HD2	1:y:517:VAL:HG22	1.74	0.52
1:1:440:GLN:O	1:1:464:GLN:NE2	2.28	0.52
1:2:508:TYR:HD2	1:2:517:VAL:HG22	1.74	0.52
1:4:402:MET:SD	1:8:677:GLN:NE2	2.82	0.52
1:6:587:ASN:OD1	1:6:588:ARG:N	2.42	0.52
1:8:587:ASN:OD1	1:8:588:ARG:N	2.42	0.52
1:C:463:SER:OG	1:5:551:ASN:ND2	2.43	0.52
1:C:565:ILE:HD11	1:C:729:ARG:NH2	2.25	0.52
1:C:587:ASN:OD1	1:C:588:ARG:N	2.42	0.52
1:E:587:ASN:OD1	1:E:588:ARG:N	2.42	0.52
1:H:551:ASN:ND2	1:g:463:SER:OG	2.43	0.52
1:H:654:PRO:HG3	1:V:248:ALA:HB2	1.91	0.52
1:J:426:HIS:HE1	1:J:607:GLN:NE2	2.01	0.52
1:J:508:TYR:HD2	1:J:517:VAL:HG22	1.74	0.52
1:K:474:SER:HA	1:W:518:ASN:HB3	1.91	0.52
1:K:518:ASN:HB3	1:1:474:SER:HA	1.91	0.52
1:L:440:GLN:O	1:L:464:GLN:NE2	2.28	0.52
1:N:508:TYR:HD2	1:N:517:VAL:HG22	1.74	0.52
1:N:509:HIS:HA	1:N:514:ASP:HA	1.89	0.52
1:P:523:MET:CE	1:P:523:MET:CA	2.85	0.52
1:P:551:ASN:ND2	1:p:463:SER:OG	2.43	0.52
1:S:587:ASN:OD1	1:S:588:ARG:N	2.42	0.52
1:T:303:ASN:HA	1:T:689:GLU:HB2	1.90	0.52
1:T:565:ILE:HD11	1:T:729:ARG:NH2	2.25	0.52
1:V:310:ARG:NE	1:V:683:GLU:OE1	2.41	0.52
1:V:551:ASN:OD1	1:2:447:ARG:NH2	2.42	0.52
1:V:551:ASN:ND2	1:2:463:SER:OG	2.42	0.52
1:Z:474:SER:HA	1:h:518:ASN:HB3	1.91	0.52
1:a:654:PRO:HG3	1:5:248:ALA:HB2	1.91	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:c:303:ASN:HA	1:c:689:GLU:HB2	1.90	0.52
1:c:551:ASN:ND2	1:v:463:SER:OG	2.42	0.52
1:d:447:ARG:NH2	1:y:551:ASN:OD1	2.42	0.52
1:h:303:ASN:HA	1:h:689:GLU:HB2	1.90	0.52
1:h:565:ILE:HD11	1:h:729:ARG:NH2	2.25	0.52
1:o:349:GLN:HE21	1:o:349:GLN:CA	2.04	0.52
1:o:463:SER:OG	1:w:551:ASN:ND2	2.42	0.52
1:o:523:MET:CE	1:o:523:MET:CA	2.85	0.52
1:p:248:ALA:HB2	1:5:654:PRO:HG3	1.91	0.52
1:p:508:TYR:HD2	1:p:517:VAL:HG22	1.74	0.52
1:w:587:ASN:OD1	1:w:588:ARG:N	2.42	0.52
1:3:387:VAL:HG12	1:3:388:GLY:N	2.21	0.52
1:4:474:SER:HA	1:6:518:ASN:HB3	1.91	0.52
1:7:350:LEU:HD22	1:7:395:LEU:HD21	1.90	0.52
1:A:463:SER:OG	1:e:551:ASN:ND2	2.42	0.52
1:C:518:ASN:HB3	1:r:474:SER:HA	1.92	0.52
1:F:551:ASN:ND2	1:n:463:SER:OG	2.42	0.52
1:G:248:ALA:HB2	1:Q:654:PRO:HG3	1.91	0.52
1:G:402:MET:SD	1:J:677:GLN:NE2	2.82	0.52
1:I:387:VAL:HG12	1:I:388:GLY:N	2.21	0.52
1:I:565:ILE:HD11	1:I:729:ARG:NH2	2.25	0.52
1:L:518:ASN:HB3	1:Y:474:SER:HA	1.92	0.52
1:M:248:ALA:HB2	1:p:654:PRO:HG3	1.91	0.52
1:M:565:ILE:HD11	1:M:729:ARG:NH2	2.25	0.52
1:O:474:SER:HA	1:o:518:ASN:HB3	1.91	0.52
1:P:426:HIS:CE1	1:P:607:GLN:HE21	2.17	0.52
1:Q:587:ASN:OD1	1:Q:588:ARG:N	2.42	0.52
1:R:447:ARG:NH2	1:m:551:ASN:OD1	2.42	0.52
1:V:463:SER:OG	1:j:551:ASN:ND2	2.43	0.52
1:W:303:ASN:HA	1:W:689:GLU:HB2	1.90	0.52
1:X:587:ASN:OD1	1:X:588:ARG:N	2.42	0.52
1:a:474:SER:HA	1:v:518:ASN:HB3	1.91	0.52
1:a:565:ILE:HD11	1:a:729:ARG:NH2	2.25	0.52
1:g:426:HIS:CE1	1:g:607:GLN:HE21	2.17	0.52
1:g:565:ILE:HD11	1:g:729:ARG:NH2	2.25	0.52
1:g:587:ASN:OD1	1:g:588:ARG:N	2.42	0.52
1:j:523:MET:CE	1:j:523:MET:CA	2.85	0.52
1:k:508:TYR:HD2	1:k:517:VAL:HG22	1.74	0.52
1:m:565:ILE:HD11	1:m:729:ARG:NH2	2.25	0.52
1:r:587:ASN:OD1	1:r:588:ARG:N	2.42	0.52
1:t:248:ALA:HB2	1:x:654:PRO:HG3	1.91	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:v:508:TYR:HD2	1:v:517:VAL:HG22	1.74	0.52
1:x:587:ASN:OD1	1:x:588:ARG:N	2.42	0.52
1:z:518:ASN:HB3	1:7:474:SER:HA	1.92	0.52
1:1:587:ASN:OD1	1:1:588:ARG:N	2.42	0.52
1:3:565:ILE:HD11	1:3:729:ARG:NH2	2.25	0.52
1:6:303:ASN:HA	1:6:689:GLU:HB2	1.90	0.52
1:A:402:MET:SD	1:W:677:GLN:NE2	2.82	0.52
1:A:587:ASN:OD1	1:A:588:ARG:N	2.42	0.52
1:B:248:ALA:HB2	1:M:654:PRO:HG3	1.91	0.52
1:B:587:ASN:OD1	1:B:588:ARG:N	2.42	0.52
1:D:426:HIS:CE1	1:D:607:GLN:HE21	2.17	0.52
1:F:463:SER:OG	1:b:551:ASN:ND2	2.42	0.52
1:J:463:SER:OG	1:p:551:ASN:ND2	2.42	0.52
1:J:518:ASN:HB3	1:P:474:SER:HA	1.92	0.52
1:L:474:SER:HA	1:Q:518:ASN:HB3	1.91	0.52
1:L:565:ILE:HD11	1:L:729:ARG:NH2	2.25	0.52
1:M:303:ASN:HA	1:M:689:GLU:HB2	1.90	0.52
1:M:518:ASN:HB3	1:8:474:SER:HA	1.91	0.52
1:R:518:ASN:HB3	1:k:474:SER:HA	1.91	0.52
1:S:447:ARG:NH2	1:g:551:ASN:OD1	2.42	0.52
1:S:508:TYR:HD2	1:S:517:VAL:HG22	1.74	0.52
1:V:508:TYR:HD2	1:V:517:VAL:HG22	1.74	0.52
1:W:310:ARG:NE	1:W:683:GLU:OE1	2.41	0.52
1:W:565:ILE:HD11	1:W:729:ARG:NH2	2.25	0.52
1:Y:565:ILE:HD11	1:Y:729:ARG:NH2	2.25	0.52
1:Z:463:SER:OG	1:h:551:ASN:ND2	2.42	0.52
1:a:587:ASN:OD1	1:a:588:ARG:N	2.42	0.52
1:d:463:SER:OG	1:y:551:ASN:ND2	2.42	0.52
1:d:518:ASN:HB3	1:f:474:SER:HA	1.91	0.52
1:e:303:ASN:HA	1:e:689:GLU:HB2	1.90	0.52
1:h:587:ASN:OD1	1:h:588:ARG:N	2.42	0.52
1:i:565:ILE:HD11	1:i:729:ARG:NH2	2.25	0.52
1:p:310:ARG:NE	1:p:683:GLU:OE1	2.41	0.52
1:q:587:ASN:OD1	1:q:588:ARG:N	2.42	0.52
1:r:508:TYR:HD2	1:r:517:VAL:HG22	1.74	0.52
1:r:565:ILE:HD11	1:r:729:ARG:NH2	2.25	0.52
1:s:474:SER:HA	1:u:518:ASN:HB3	1.91	0.52
1:u:565:ILE:HD11	1:u:729:ARG:NH2	2.25	0.52
1:u:677:GLN:NE2	1:7:402:MET:SD	2.83	0.52
1:v:587:ASN:OD1	1:v:588:ARG:N	2.42	0.52
1:z:551:ASN:ND2	1:7:463:SER:OG	2.42	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:7:565:ILE:HD11	1:7:729:ARG:NH2	2.25	0.52
1:B:463:SER:OG	1:4:551:ASN:ND2	2.42	0.52
1:D:334:ASN:OD1	1:D:335:ASN:N	2.43	0.52
1:H:565:ILE:HD11	1:H:729:ARG:NH2	2.25	0.52
1:I:518:ASN:HB3	1:U:474:SER:HA	1.91	0.52
1:I:587:ASN:OD1	1:I:588:ARG:N	2.42	0.52
1:L:551:ASN:ND2	1:Y:463:SER:OG	2.42	0.52
1:M:551:ASN:ND2	1:8:463:SER:OG	2.42	0.52
1:N:463:SER:OG	1:U:551:ASN:ND2	2.42	0.52
1:N:565:ILE:HD11	1:N:729:ARG:NH2	2.25	0.52
1:R:310:ARG:NE	1:R:683:GLU:OE1	2.41	0.52
1:R:587:ASN:OD1	1:R:588:ARG:N	2.42	0.52
1:S:565:ILE:HD11	1:S:729:ARG:NH2	2.25	0.52
1:V:518:ASN:HB3	1:2:474:SER:HA	1.91	0.52
1:V:654:PRO:HG3	1:h:248:ALA:HB2	1.91	0.52
1:W:416:GLU:CD	1:W:416:GLU:H	2.18	0.52
1:W:523:MET:CE	1:W:523:MET:CA	2.85	0.52
1:Y:350:LEU:HD22	1:Y:395:LEU:HD21	1.90	0.52
1:Z:508:TYR:HD2	1:Z:517:VAL:HG22	1.74	0.52
1:Z:518:ASN:HB3	1:t:474:SER:HA	1.91	0.52
1:a:518:ASN:HB3	1:c:474:SER:HA	1.92	0.52
1:c:654:PRO:HG3	1:7:248:ALA:HB2	1.91	0.52
1:e:303:ASN:HD21	1:e:686:LEU:HD22	1.75	0.52
1:f:303:ASN:HD21	1:f:686:LEU:HD22	1.75	0.52
1:h:654:PRO:HG3	1:1:248:ALA:HB2	1.91	0.52
1:i:463:SER:OG	1:s:551:ASN:ND2	2.42	0.52
1:j:334:ASN:OD1	1:j:335:ASN:N	2.43	0.52
1:k:334:ASN:OD1	1:k:335:ASN:N	2.43	0.52
1:n:587:ASN:OD1	1:n:588:ARG:N	2.42	0.52
1:q:334:ASN:OD1	1:q:335:ASN:N	2.43	0.52
1:u:587:ASN:OD1	1:u:588:ARG:N	2.42	0.52
1:x:518:ASN:HB3	1:z:474:SER:HA	1.91	0.52
1:y:310:ARG:NE	1:y:683:GLU:OE1	2.41	0.52
1:z:565:ILE:HD11	1:z:729:ARG:NH2	2.25	0.52
1:5:565:ILE:HD11	1:5:729:ARG:NH2	2.25	0.52
1:6:310:ARG:NE	1:6:683:GLU:OE1	2.41	0.52
1:6:416:GLU:CD	1:6:416:GLU:H	2.18	0.52
1:6:523:MET:CE	1:6:523:MET:CA	2.85	0.52
1:6:565:ILE:HD11	1:6:729:ARG:NH2	2.25	0.52
1:8:508:TYR:HD2	1:8:517:VAL:HG22	1.74	0.52
1:B:349:GLN:HE21	1:B:349:GLN:CA	2.04	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:551:ASN:ND2	1:6:463:SER:OG	2.42	0.52
1:C:426:HIS:CE1	1:C:607:GLN:HE21	2.17	0.52
1:D:551:ASN:ND2	1:T:463:SER:OG	2.43	0.52
1:G:551:ASN:OD1	1:M:447:ARG:NH2	2.42	0.52
1:I:677:GLN:NE2	1:Y:402:MET:SD	2.83	0.52
1:J:334:ASN:OD1	1:J:335:ASN:N	2.43	0.52
1:J:345:ASP:O	1:J:346:SER:CB	2.54	0.52
1:J:474:SER:HA	1:p:518:ASN:HB3	1.92	0.52
1:K:551:ASN:ND2	1:1:463:SER:OG	2.42	0.52
1:K:677:GLN:NE2	1:6:402:MET:SD	2.83	0.52
1:M:587:ASN:OD1	1:M:588:ARG:N	2.42	0.52
1:N:303:ASN:HD21	1:N:686:LEU:HD22	1.75	0.52
1:N:334:ASN:OD1	1:N:335:ASN:N	2.43	0.52
1:O:387:VAL:HG12	1:O:388:GLY:N	2.21	0.52
1:P:334:ASN:OD1	1:P:335:ASN:N	2.43	0.52
1:R:334:ASN:OD1	1:R:335:ASN:N	2.43	0.52
1:W:402:MET:SD	1:4:677:GLN:NE2	2.83	0.52
1:W:463:SER:OG	1:1:551:ASN:ND2	2.42	0.52
1:X:518:ASN:HB3	1:l:474:SER:HA	1.91	0.52
1:Y:248:ALA:HB2	1:e:654:PRO:HG3	1.91	0.52
1:Z:334:ASN:OD1	1:Z:335:ASN:N	2.43	0.52
1:Z:416:GLU:CD	1:Z:416:GLU:H	2.18	0.52
1:b:303:ASN:HD21	1:b:686:LEU:HD22	1.75	0.52
1:b:474:SER:HA	1:n:518:ASN:HB3	1.92	0.52
1:b:587:ASN:OD1	1:b:588:ARG:N	2.42	0.52
1:c:303:ASN:HD21	1:c:686:LEU:HD22	1.75	0.52
1:c:334:ASN:OD1	1:c:335:ASN:N	2.43	0.52
1:c:677:GLN:NE2	1:r:402:MET:SD	2.83	0.52
1:d:587:ASN:OD1	1:d:588:ARG:N	2.42	0.52
1:e:474:SER:HA	1:3:518:ASN:HB3	1.92	0.52
1:f:334:ASN:OD1	1:f:335:ASN:N	2.43	0.52
1:f:551:ASN:ND2	1:y:463:SER:OG	2.42	0.52
1:i:334:ASN:OD1	1:i:335:ASN:N	2.43	0.52
1:q:310:ARG:NE	1:q:683:GLU:OE1	2.41	0.52
1:t:587:ASN:OD1	1:t:588:ARG:N	2.42	0.52
1:u:387:VAL:HG12	1:u:388:GLY:N	2.21	0.52
1:x:463:SER:OG	1:7:551:ASN:ND2	2.43	0.52
1:z:440:GLN:O	1:z:464:GLN:NE2	2.28	0.52
1:2:334:ASN:OD1	1:2:335:ASN:N	2.43	0.52
1:3:587:ASN:OD1	1:3:588:ARG:N	2.42	0.52
1:4:416:GLU:CD	1:4:416:GLU:H	2.18	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:8:416:GLU:CD	1:8:416:GLU:H	2.18	0.52
1:A:654:PRO:HG3	1:W:248:ALA:HB2	1.91	0.52
1:B:440:GLN:O	1:B:464:GLN:NE2	2.28	0.52
1:B:523:MET:CE	1:B:523:MET:CA	2.85	0.52
1:D:654:PRO:HG3	1:m:248:ALA:HB2	1.91	0.52
1:F:474:SER:HA	1:b:518:ASN:HB3	1.91	0.52
1:G:474:SER:HA	1:8:518:ASN:HB3	1.91	0.52
1:G:587:ASN:OD1	1:G:588:ARG:N	2.42	0.52
1:I:248:ALA:HB2	1:Y:654:PRO:HG3	1.91	0.52
1:K:416:GLU:CD	1:K:416:GLU:H	2.18	0.52
1:K:654:PRO:HG3	1:Z:248:ALA:HB2	1.91	0.52
1:P:551:ASN:OD1	1:p:447:ARG:NH2	2.42	0.52
1:P:565:ILE:HD11	1:P:729:ARG:NH2	2.25	0.52
1:R:565:ILE:HD11	1:R:729:ARG:NH2	2.25	0.52
1:S:474:SER:HA	1:g:518:ASN:HB3	1.92	0.52
1:W:474:SER:HA	1:1:518:ASN:HB3	1.92	0.52
1:b:334:ASN:OD1	1:b:335:ASN:N	2.43	0.52
1:c:587:ASN:OD1	1:c:588:ARG:N	2.42	0.52
1:e:334:ASN:OD1	1:e:335:ASN:N	2.43	0.52
1:f:518:ASN:HB3	1:y:474:SER:HA	1.91	0.52
1:i:303:ASN:HD21	1:i:686:LEU:HD22	1.75	0.52
1:j:416:GLU:CD	1:j:416:GLU:H	2.18	0.52
1:j:565:ILE:HD11	1:j:729:ARG:NH2	2.25	0.52
1:k:518:ASN:HB3	1:m:474:SER:HA	1.91	0.52
1:k:551:ASN:ND2	1:m:463:SER:OG	2.43	0.52
1:l:565:ILE:HD11	1:l:729:ARG:NH2	2.25	0.52
1:p:303:ASN:HD21	1:p:686:LEU:HD22	1.75	0.52
1:q:565:ILE:HD11	1:q:729:ARG:NH2	2.25	0.52
1:s:334:ASN:OD1	1:s:335:ASN:N	2.43	0.52
1:v:654:PRO:HG3	1:6:248:ALA:HB2	1.91	0.52
1:w:303:ASN:HD21	1:w:686:LEU:HD22	1.75	0.52
1:x:303:ASN:HD21	1:x:686:LEU:HD22	1.75	0.52
1:1:523:MET:CE	1:1:523:MET:CA	2.85	0.52
1:4:349:GLN:HE21	1:4:349:GLN:CA	2.04	0.52
1:8:334:ASN:OD1	1:8:335:ASN:N	2.43	0.52
1:A:523:MET:CE	1:A:523:MET:CA	2.85	0.51
1:B:518:ASN:HB3	1:6:474:SER:HA	1.91	0.51
1:B:565:ILE:HD11	1:B:729:ARG:NH2	2.25	0.51
1:D:416:GLU:CD	1:D:416:GLU:H	2.18	0.51
1:D:553:ASP:OD1	1:D:554:ILE:N	2.43	0.51
1:E:303:ASN:HD21	1:E:686:LEU:HD22	1.75	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:463:SER:OG	1:l:551:ASN:ND2	2.42	0.51
1:E:565:ILE:HD11	1:E:729:ARG:NH2	2.25	0.51
1:F:334:ASN:OD1	1:F:335:ASN:N	2.43	0.51
1:F:565:ILE:HD11	1:F:729:ARG:NH2	2.25	0.51
1:H:303:ASN:HA	1:H:689:GLU:HB2	1.90	0.51
1:J:565:ILE:HD11	1:J:729:ARG:NH2	2.25	0.51
1:M:303:ASN:HD21	1:M:686:LEU:HD22	1.75	0.51
1:M:345:ASP:O	1:M:346:SER:CB	2.54	0.51
1:O:565:ILE:HD11	1:O:729:ARG:NH2	2.25	0.51
1:P:416:GLU:CD	1:P:416:GLU:H	2.18	0.51
1:Q:303:ASN:HD21	1:Q:686:LEU:HD22	1.75	0.51
1:Q:463:SER:OG	1:Y:551:ASN:ND2	2.43	0.51
1:R:610:ASP:HB3	1:R:729:ARG:NH2	2.26	0.51
1:U:334:ASN:OD1	1:U:335:ASN:N	2.43	0.51
1:U:508:TYR:HD2	1:U:517:VAL:HG22	1.74	0.51
1:U:587:ASN:OD1	1:U:588:ARG:N	2.42	0.51
1:V:303:ASN:HD21	1:V:686:LEU:HD22	1.75	0.51
1:V:334:ASN:OD1	1:V:335:ASN:N	2.43	0.51
1:V:447:ARG:NH2	1:j:551:ASN:OD1	2.42	0.51
1:Y:303:ASN:HD21	1:Y:686:LEU:HD22	1.75	0.51
1:Y:334:ASN:OD1	1:Y:335:ASN:N	2.43	0.51
1:Y:523:MET:CE	1:Y:523:MET:CA	2.85	0.51
1:Z:553:ASP:OD1	1:Z:554:ILE:N	2.43	0.51
1:Z:610:ASP:HB3	1:Z:729:ARG:NH2	2.26	0.51
1:b:553:ASP:OD1	1:b:554:ILE:N	2.43	0.51
1:b:565:ILE:HD11	1:b:729:ARG:NH2	2.25	0.51
1:c:416:GLU:CD	1:c:416:GLU:H	2.18	0.51
1:d:303:ASN:HD21	1:d:686:LEU:HD22	1.75	0.51
1:d:334:ASN:OD1	1:d:335:ASN:N	2.43	0.51
1:e:587:ASN:OD1	1:e:588:ARG:N	2.42	0.51
1:f:553:ASP:OD1	1:f:554:ILE:N	2.43	0.51
1:h:303:ASN:HD21	1:h:686:LEU:HD22	1.75	0.51
1:k:416:GLU:CD	1:k:416:GLU:H	2.18	0.51
1:k:553:ASP:OD1	1:k:554:ILE:N	2.43	0.51
1:l:387:VAL:HG12	1:l:388:GLY:N	2.21	0.51
1:n:303:ASN:HD21	1:n:686:LEU:HD22	1.75	0.51
1:p:334:ASN:OD1	1:p:335:ASN:N	2.43	0.51
1:s:508:TYR:HD2	1:s:517:VAL:HG22	1.74	0.51
1:u:248:ALA:HB2	1:7:654:PRO:HG3	1.91	0.51
1:w:334:ASN:OD1	1:w:335:ASN:N	2.43	0.51
1:w:565:ILE:HD11	1:w:729:ARG:NH2	2.25	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:x:565:ILE:HD11	1:x:729:ARG:NH2	2.25	0.51
1:2:345:ASP:O	1:2:346:SER:CB	2.54	0.51
1:4:654:PRO:HG3	1:8:248:ALA:HB2	1.91	0.51
1:7:303:ASN:HD21	1:7:686:LEU:HD22	1.75	0.51
1:B:402:MET:SD	1:a:677:GLN:NE2	2.82	0.51
1:C:610:ASP:HB3	1:C:729:ARG:NH2	2.26	0.51
1:E:334:ASN:OD1	1:E:335:ASN:N	2.43	0.51
1:F:518:ASN:HB3	1:n:474:SER:HA	1.91	0.51
1:G:565:ILE:HD11	1:G:729:ARG:NH2	2.25	0.51
1:I:334:ASN:OD1	1:I:335:ASN:N	2.43	0.51
1:K:303:ASN:HD21	1:K:686:LEU:HD22	1.75	0.51
1:K:602:PRO:HD3	1:W:481:PRO:HG3	1.93	0.51
1:M:334:ASN:OD1	1:M:335:ASN:N	2.43	0.51
1:Q:565:ILE:HD11	1:Q:729:ARG:NH2	2.25	0.51
1:S:334:ASN:OD1	1:S:335:ASN:N	2.43	0.51
1:S:553:ASP:OD1	1:S:554:ILE:N	2.43	0.51
1:X:553:ASP:OD1	1:X:554:ILE:N	2.43	0.51
1:Z:300:ILE:HG21	1:Z:730:TYR:HD2	1.76	0.51
1:c:565:ILE:HD11	1:c:729:ARG:NH2	2.25	0.51
1:e:463:SER:OG	1:3:551:ASN:ND2	2.42	0.51
1:f:429:SER:OG	1:f:431:ASP:OD1	2.23	0.51
1:f:565:ILE:HD11	1:f:729:ARG:NH2	2.25	0.51
1:f:587:ASN:OD1	1:f:588:ARG:N	2.42	0.51
1:g:610:ASP:HB3	1:g:729:ARG:NH2	2.26	0.51
1:h:345:ASP:O	1:h:346:SER:CB	2.54	0.51
1:h:350:LEU:HD22	1:h:395:LEU:HD21	1.90	0.51
1:h:447:ARG:NH2	1:t:551:ASN:OD1	2.42	0.51
1:h:463:SER:OG	1:t:551:ASN:ND2	2.42	0.51
1:j:300:ILE:HG21	1:j:730:TYR:HD2	1.76	0.51
1:n:334:ASN:OD1	1:n:335:ASN:N	2.43	0.51
1:o:303:ASN:HD21	1:o:686:LEU:HD22	1.75	0.51
1:q:610:ASP:HB3	1:q:729:ARG:NH2	2.26	0.51
1:r:334:ASN:OD1	1:r:335:ASN:N	2.43	0.51
1:r:553:ASP:OD1	1:r:554:ILE:N	2.43	0.51
1:s:303:ASN:HD21	1:s:686:LEU:HD22	1.75	0.51
1:s:587:ASN:OD1	1:s:588:ARG:N	2.42	0.51
1:t:300:ILE:HG21	1:t:730:TYR:HD2	1.76	0.51
1:u:334:ASN:OD1	1:u:335:ASN:N	2.43	0.51
1:y:334:ASN:OD1	1:y:335:ASN:N	2.43	0.51
1:y:565:ILE:HD11	1:y:729:ARG:NH2	2.25	0.51
1:1:565:ILE:HD11	1:1:729:ARG:NH2	2.25	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:2:565:ILE:HD11	1:2:729:ARG:NH2	2.25	0.51
1:4:440:GLN:O	1:4:464:GLN:NE2	2.28	0.51
1:5:303:ASN:HA	1:5:689:GLU:HB2	1.90	0.51
1:7:334:ASN:OD1	1:7:335:ASN:N	2.43	0.51
1:8:300:ILE:HG21	1:8:730:TYR:HD2	1.76	0.51
1:8:553:ASP:OD1	1:8:554:ILE:N	2.43	0.51
1:8:565:ILE:HD11	1:8:729:ARG:NH2	2.25	0.51
1:8:610:ASP:HB3	1:8:729:ARG:NH2	2.26	0.51
1:D:518:ASN:HB3	1:T:474:SER:HA	1.92	0.51
1:E:413:TYR:HE2	1:E:643:PRO:HG3	1.76	0.51
1:E:610:ASP:HB3	1:E:729:ARG:NH2	2.26	0.51
1:G:300:ILE:HG21	1:G:730:TYR:HD2	1.76	0.51
1:H:610:ASP:HB3	1:H:729:ARG:NH2	2.26	0.51
1:K:413:TYR:HE2	1:K:643:PRO:HG3	1.76	0.51
1:L:610:ASP:HB3	1:L:729:ARG:NH2	2.26	0.51
1:M:387:VAL:HG12	1:M:388:GLY:N	2.21	0.51
1:M:416:GLU:CD	1:M:416:GLU:H	2.18	0.51
1:N:413:TYR:HE2	1:N:643:PRO:HG3	1.76	0.51
1:N:474:SER:HA	1:U:518:ASN:HB3	1.92	0.51
1:N:654:PRO:HG3	1:Q:248:ALA:HB2	1.91	0.51
1:O:551:ASN:ND2	1:w:463:SER:OG	2.42	0.51
1:S:654:PRO:HG3	1:e:248:ALA:HB2	1.90	0.51
1:T:248:ALA:HB2	1:k:654:PRO:HG3	1.91	0.51
1:U:303:ASN:HD21	1:U:686:LEU:HD22	1.75	0.51
1:V:610:ASP:HB3	1:V:729:ARG:NH2	2.25	0.51
1:X:303:ASN:HD21	1:X:686:LEU:HD22	1.75	0.51
1:Y:413:TYR:HE2	1:Y:643:PRO:HG3	1.76	0.51
1:Z:565:ILE:HD11	1:Z:729:ARG:NH2	2.25	0.51
1:a:551:ASN:ND2	1:c:463:SER:OG	2.42	0.51
1:c:248:ALA:HB2	1:r:654:PRO:HG3	1.90	0.51
1:e:416:GLU:CD	1:e:416:GLU:H	2.18	0.51
1:f:300:ILE:HG21	1:f:730:TYR:HD2	1.76	0.51
1:g:248:ALA:HB2	1:j:654:PRO:HG3	1.91	0.51
1:h:334:ASN:OD1	1:h:335:ASN:N	2.43	0.51
1:h:387:VAL:HG12	1:h:388:GLY:N	2.21	0.51
1:i:654:PRO:HG3	1:x:248:ALA:HB2	1.91	0.51
1:k:349:GLN:HE21	1:k:349:GLN:CA	2.04	0.51
1:o:553:ASP:OD1	1:o:554:ILE:N	2.43	0.51
1:q:416:GLU:CD	1:q:416:GLU:H	2.18	0.51
1:s:413:TYR:HE2	1:s:643:PRO:HG3	1.76	0.51
1:t:565:ILE:HD11	1:t:729:ARG:NH2	2.25	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:v:523:MET:CE	1:v:523:MET:CA	2.85	0.51
1:v:565:ILE:HD11	1:v:729:ARG:NH2	2.25	0.51
1:w:413:TYR:HE2	1:w:643:PRO:HG3	1.76	0.51
1:w:610:ASP:HB3	1:w:729:ARG:NH2	2.26	0.51
1:z:310:ARG:NE	1:z:683:GLU:OE1	2.41	0.51
1:1:402:MET:SD	1:3:677:GLN:NE2	2.82	0.51
1:2:416:GLU:CD	1:2:416:GLU:H	2.18	0.51
1:3:440:GLN:O	1:3:464:GLN:NE2	2.28	0.51
1:4:303:ASN:HD21	1:4:686:LEU:HD22	1.75	0.51
1:4:413:TYR:HE2	1:4:643:PRO:HG3	1.76	0.51
1:4:565:ILE:HD11	1:4:729:ARG:NH2	2.25	0.51
1:5:334:ASN:OD1	1:5:335:ASN:N	2.43	0.51
1:7:413:TYR:HE2	1:7:643:PRO:HG3	1.76	0.51
1:A:303:ASN:HD21	1:A:686:LEU:HD22	1.75	0.51
1:A:334:ASN:OD1	1:A:335:ASN:N	2.43	0.51
1:A:553:ASP:OD1	1:A:554:ILE:N	2.43	0.51
1:C:248:ALA:HB2	1:P:654:PRO:HG3	1.91	0.51
1:C:337:THR:HG22	1:o:405:THR:HG21	1.93	0.51
1:F:300:ILE:HG21	1:F:730:TYR:HD2	1.76	0.51
1:G:551:ASN:ND2	1:M:463:SER:OG	2.42	0.51
1:H:334:ASN:OD1	1:H:335:ASN:N	2.43	0.51
1:K:565:ILE:HD11	1:K:729:ARG:NH2	2.25	0.51
1:L:602:PRO:HD3	1:Q:481:PRO:HG3	1.93	0.51
1:M:350:LEU:HD22	1:M:395:LEU:HD21	1.90	0.51
1:M:481:PRO:HG3	1:8:602:PRO:HD3	1.93	0.51
1:N:416:GLU:CD	1:N:416:GLU:H	2.18	0.51
1:R:551:ASN:ND2	1:k:463:SER:OG	2.42	0.51
1:T:416:GLU:CD	1:T:416:GLU:H	2.18	0.51
1:U:413:TYR:HE2	1:U:643:PRO:HG3	1.76	0.51
1:U:565:ILE:HD11	1:U:729:ARG:NH2	2.25	0.51
1:V:565:ILE:HD11	1:V:729:ARG:NH2	2.25	0.51
1:d:474:SER:HA	1:y:518:ASN:HB3	1.91	0.51
1:e:565:ILE:HD11	1:e:729:ARG:NH2	2.25	0.51
1:h:310:ARG:NE	1:h:683:GLU:OE1	2.41	0.51
1:i:413:TYR:HE2	1:i:643:PRO:HG3	1.76	0.51
1:i:416:GLU:CD	1:i:416:GLU:H	2.18	0.51
1:i:474:SER:HA	1:s:518:ASN:HB3	1.92	0.51
1:i:551:ASN:ND2	1:u:463:SER:OG	2.43	0.51
1:m:416:GLU:CD	1:m:416:GLU:H	2.18	0.51
1:n:523:MET:CE	1:n:523:MET:CA	2.85	0.51
1:o:300:ILE:HG21	1:o:730:TYR:HD2	1.76	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:o:334:ASN:OD1	1:o:335:ASN:N	2.43	0.51
1:p:565:ILE:HD11	1:p:729:ARG:NH2	2.25	0.51
1:p:610:ASP:HB3	1:p:729:ARG:NH2	2.26	0.51
1:s:565:ILE:HD11	1:s:729:ARG:NH2	2.25	0.51
1:v:303:ASN:HD21	1:v:686:LEU:HD22	1.75	0.51
1:x:481:PRO:HG3	1:z:602:PRO:HD3	1.93	0.51
1:y:416:GLU:CD	1:y:416:GLU:H	2.18	0.51
1:z:610:ASP:HB3	1:z:729:ARG:NH2	2.26	0.51
1:3:300:ILE:HG21	1:3:730:TYR:HD2	1.76	0.51
1:4:602:PRO:HD3	1:6:481:PRO:HG3	1.93	0.51
1:5:610:ASP:HB3	1:5:729:ARG:NH2	2.26	0.51
1:A:413:TYR:HE2	1:A:643:PRO:HG3	1.76	0.51
1:C:345:ASP:O	1:C:346:SER:CB	2.54	0.51
1:G:553:ASP:OD1	1:G:554:ILE:N	2.43	0.51
1:G:610:ASP:HB3	1:G:729:ARG:NH2	2.26	0.51
1:I:303:ASN:OD1	1:I:303:ASN:N	2.44	0.51
1:I:463:SER:OG	1:N:551:ASN:ND2	2.43	0.51
1:J:610:ASP:HB3	1:J:729:ARG:NH2	2.26	0.51
1:K:349:GLN:HE21	1:K:349:GLN:CA	2.04	0.51
1:P:300:ILE:HG21	1:P:730:TYR:HD2	1.76	0.51
1:R:416:GLU:CD	1:R:416:GLU:H	2.18	0.51
1:S:303:ASN:HD21	1:S:686:LEU:HD22	1.75	0.51
1:S:610:ASP:HB3	1:S:729:ARG:NH2	2.26	0.51
1:T:303:ASN:OD1	1:T:303:ASN:N	2.44	0.51
1:V:602:PRO:HD3	1:j:481:PRO:HG3	1.93	0.51
1:X:300:ILE:HG21	1:X:730:TYR:HD2	1.76	0.51
1:X:334:ASN:OD1	1:X:335:ASN:N	2.43	0.51
1:X:405:THR:HG21	1:g:337:THR:HG22	1.93	0.51
1:X:416:GLU:CD	1:X:416:GLU:H	2.18	0.51
1:Y:300:ILE:HG21	1:Y:730:TYR:HD2	1.76	0.51
1:Y:416:GLU:CD	1:Y:416:GLU:H	2.18	0.51
1:Z:602:PRO:HD3	1:h:481:PRO:HG3	1.93	0.51
1:d:416:GLU:CD	1:d:416:GLU:H	2.18	0.51
1:e:310:ARG:NE	1:e:683:GLU:OE1	2.41	0.51
1:h:416:GLU:CD	1:h:416:GLU:H	2.18	0.51
1:h:523:MET:CE	1:h:523:MET:CA	2.85	0.51
1:m:303:ASN:OD1	1:m:303:ASN:N	2.44	0.51
1:o:416:GLU:CD	1:o:416:GLU:H	2.18	0.51
1:q:300:ILE:HG21	1:q:730:TYR:HD2	1.76	0.51
1:q:303:ASN:HD21	1:q:686:LEU:HD22	1.75	0.51
1:r:310:ARG:NE	1:r:683:GLU:OE1	2.41	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:t:553:ASP:OD1	1:t:554:ILE:N	2.43	0.51
1:t:610:ASP:HB3	1:t:729:ARG:NH2	2.26	0.51
1:u:314:LYS:HE3	1:u:316:PHE:HZ	1.76	0.51
1:v:334:ASN:OD1	1:v:335:ASN:N	2.43	0.51
1:v:553:ASP:OD1	1:v:554:ILE:N	2.43	0.51
1:v:610:ASP:HB3	1:v:729:ARG:NH2	2.26	0.51
1:4:587:ASN:OD1	1:4:588:ARG:N	2.42	0.51
1:5:350:LEU:HD22	1:5:395:LEU:HD21	1.90	0.51
1:7:523:MET:CE	1:7:523:MET:CA	2.85	0.51
1:A:565:ILE:HD11	1:A:729:ARG:NH2	2.25	0.51
1:A:610:ASP:HB3	1:A:729:ARG:NH2	2.26	0.51
1:C:551:ASN:OD1	1:r:447:ARG:NH2	2.43	0.51
1:D:303:ASN:HD21	1:D:686:LEU:HD22	1.75	0.51
1:D:349:GLN:HE21	1:D:349:GLN:CA	2.04	0.51
1:E:416:GLU:CD	1:E:416:GLU:H	2.18	0.51
1:F:413:TYR:HE2	1:F:643:PRO:HG3	1.76	0.51
1:F:416:GLU:CD	1:F:416:GLU:H	2.18	0.51
1:H:350:LEU:HD22	1:H:395:LEU:HD21	1.90	0.51
1:I:314:LYS:HE3	1:I:316:PHE:HZ	1.76	0.51
1:I:413:TYR:HE2	1:I:643:PRO:HG3	1.76	0.51
1:J:416:GLU:CD	1:J:416:GLU:H	2.18	0.51
1:K:440:GLN:O	1:K:464:GLN:NE2	2.28	0.51
1:K:587:ASN:OD1	1:K:588:ARG:N	2.42	0.51
1:L:310:ARG:NE	1:L:683:GLU:OE1	2.41	0.51
1:M:310:ARG:NE	1:M:683:GLU:OE1	2.41	0.51
1:O:481:PRO:HG3	1:w:602:PRO:HD3	1.93	0.51
1:O:602:PRO:HD3	1:o:481:PRO:HG3	1.93	0.51
1:P:481:PRO:HG3	1:p:602:PRO:HD3	1.93	0.51
1:Q:553:ASP:OD1	1:Q:554:ILE:N	2.43	0.51
1:Q:610:ASP:HB3	1:Q:729:ARG:NH2	2.26	0.51
1:R:300:ILE:HG21	1:R:730:TYR:HD2	1.76	0.51
1:R:303:ASN:OD1	1:R:303:ASN:N	2.44	0.51
1:R:474:SER:HA	1:m:518:ASN:HB3	1.91	0.51
1:S:337:THR:HG22	1:e:405:THR:HG21	1.92	0.51
1:T:303:ASN:HD21	1:T:686:LEU:HD22	1.75	0.51
1:T:314:LYS:HE3	1:T:316:PHE:HZ	1.76	0.51
1:T:413:TYR:HE2	1:T:643:PRO:HG3	1.76	0.51
1:W:553:ASP:OD1	1:W:554:ILE:N	2.43	0.51
1:a:300:ILE:HG21	1:a:730:TYR:HD2	1.76	0.51
1:b:300:ILE:HG21	1:b:730:TYR:HD2	1.76	0.51
1:c:310:ARG:NE	1:c:683:GLU:OE1	2.41	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:d:523:MET:CE	1:d:523:MET:CA	2.85	0.51
1:f:677:GLN:NE2	1:2:402:MET:SD	2.83	0.51
1:g:416:GLU:CD	1:g:416:GLU:H	2.18	0.51
1:h:602:PRO:HD3	1:t:481:PRO:HG3	1.93	0.51
1:i:345:ASP:O	1:i:346:SER:CB	2.54	0.51
1:m:314:LYS:HE3	1:m:316:PHE:HZ	1.76	0.51
1:m:413:TYR:HE2	1:m:643:PRO:HG3	1.76	0.51
1:o:565:ILE:HD11	1:o:729:ARG:NH2	2.25	0.51
1:r:610:ASP:HB3	1:r:729:ARG:NH2	2.26	0.51
1:s:416:GLU:CD	1:s:416:GLU:H	2.18	0.51
1:t:314:LYS:HE3	1:t:316:PHE:HZ	1.76	0.51
1:t:416:GLU:CD	1:t:416:GLU:H	2.18	0.51
1:u:303:ASN:OD1	1:u:303:ASN:N	2.44	0.51
1:u:413:TYR:HE2	1:u:643:PRO:HG3	1.76	0.51
1:v:413:TYR:HE2	1:v:643:PRO:HG3	1.76	0.51
1:x:350:LEU:HD22	1:x:395:LEU:HD21	1.90	0.51
1:x:553:ASP:OD1	1:x:554:ILE:N	2.43	0.51
1:x:610:ASP:HB3	1:x:729:ARG:NH2	2.26	0.51
1:y:300:ILE:HG21	1:y:730:TYR:HD2	1.76	0.51
1:1:334:ASN:OD1	1:1:335:ASN:N	2.43	0.51
1:4:334:ASN:OD1	1:4:335:ASN:N	2.43	0.51
1:6:553:ASP:OD1	1:6:554:ILE:N	2.43	0.51
1:7:300:ILE:HG21	1:7:730:TYR:HD2	1.76	0.51
1:7:416:GLU:CD	1:7:416:GLU:H	2.18	0.51
1:B:334:ASN:OD1	1:B:335:ASN:N	2.43	0.51
1:C:416:GLU:CD	1:C:416:GLU:H	2.18	0.51
1:D:337:THR:HG22	1:m:405:THR:HG21	1.93	0.51
1:E:405:THR:HG21	1:I:337:THR:HG22	1.93	0.51
1:G:314:LYS:HE3	1:G:316:PHE:HZ	1.76	0.51
1:G:405:THR:HG21	1:Q:337:THR:HG22	1.93	0.51
1:G:416:GLU:CD	1:G:416:GLU:H	2.18	0.51
1:G:481:PRO:HG3	1:M:602:PRO:HD3	1.93	0.51
1:H:481:PRO:HG3	1:g:602:PRO:HD3	1.93	0.51
1:I:610:ASP:HB3	1:I:729:ARG:NH2	2.26	0.51
1:J:413:TYR:HE2	1:J:643:PRO:HG3	1.76	0.51
1:L:303:ASN:HD21	1:L:686:LEU:HD22	1.75	0.51
1:L:359:GLN:NE2	1:Y:464:GLN:HE22	2.09	0.51
1:M:523:MET:CE	1:M:523:MET:CA	2.85	0.51
1:N:345:ASP:O	1:N:346:SER:CB	2.54	0.51
1:O:300:ILE:HG21	1:O:730:TYR:HD2	1.76	0.51
1:Q:334:ASN:OD1	1:Q:335:ASN:N	2.43	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Q:350:LEU:HD22	1:Q:395:LEU:HD21	1.90	0.51
1:R:303:ASN:HD21	1:R:686:LEU:HD22	1.75	0.51
1:S:310:ARG:NE	1:S:683:GLU:OE1	2.41	0.51
1:S:429:SER:OG	1:S:431:ASP:OD1	2.23	0.51
1:T:518:ASN:HB3	1:q:474:SER:HA	1.91	0.51
1:T:610:ASP:HB3	1:T:729:ARG:NH2	2.26	0.51
1:U:416:GLU:CD	1:U:416:GLU:H	2.18	0.51
1:V:300:ILE:HG21	1:V:730:TYR:HD2	1.76	0.51
1:V:303:ASN:OD1	1:V:303:ASN:N	2.44	0.51
1:V:413:TYR:HE2	1:V:643:PRO:HG3	1.76	0.51
1:W:413:TYR:HE2	1:W:643:PRO:HG3	1.76	0.51
1:X:314:LYS:HE3	1:X:316:PHE:HZ	1.76	0.51
1:d:413:TYR:HE2	1:d:643:PRO:HG3	1.76	0.51
1:d:508:TYR:HD2	1:d:517:VAL:HG22	1.74	0.51
1:d:565:ILE:HD11	1:d:729:ARG:NH2	2.25	0.51
1:e:464:GLN:HE22	1:3:359:GLN:NE2	2.09	0.51
1:k:413:TYR:HE2	1:k:643:PRO:HG3	1.76	0.51
1:l:300:ILE:HG21	1:l:730:TYR:HD2	1.76	0.51
1:n:416:GLU:CD	1:n:416:GLU:H	2.18	0.51
1:o:314:LYS:HE3	1:o:316:PHE:HZ	1.76	0.51
1:p:303:ASN:OD1	1:p:303:ASN:N	2.44	0.51
1:p:413:TYR:HE2	1:p:643:PRO:HG3	1.76	0.51
1:q:303:ASN:OD1	1:q:303:ASN:N	2.44	0.51
1:r:303:ASN:HD21	1:r:686:LEU:HD22	1.75	0.51
1:r:429:SER:OG	1:r:431:ASP:OD1	2.24	0.51
1:t:405:THR:HG21	1:x:337:THR:HG22	1.93	0.51
1:u:610:ASP:HB3	1:u:729:ARG:NH2	2.26	0.51
1:w:416:GLU:CD	1:w:416:GLU:H	2.18	0.51
1:x:334:ASN:OD1	1:x:335:ASN:N	2.43	0.51
1:z:300:ILE:HG21	1:z:730:TYR:HD2	1.76	0.51
1:z:303:ASN:HD21	1:z:686:LEU:HD22	1.75	0.51
1:z:416:GLU:H	1:z:416:GLU:CD	2.18	0.51
1:1:416:GLU:CD	1:1:416:GLU:H	2.18	0.51
1:2:610:ASP:HB3	1:2:729:ARG:NH2	2.26	0.51
1:3:610:ASP:HB3	1:3:729:ARG:NH2	2.26	0.51
1:4:464:GLN:HE22	1:6:359:GLN:NE2	2.09	0.51
1:4:523:MET:CE	1:4:523:MET:CA	2.85	0.51
1:5:413:TYR:HE2	1:5:643:PRO:HG3	1.76	0.51
1:6:610:ASP:HB3	1:6:729:ARG:NH2	2.25	0.51
1:A:405:THR:HG21	1:L:337:THR:HG22	1.92	0.51
1:B:337:THR:HG22	1:a:405:THR:HG21	1.93	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:481:PRO:HG3	1:6:602:PRO:HD3	1.93	0.51
1:C:303:ASN:HD21	1:C:686:LEU:HD22	1.75	0.51
1:C:602:PRO:HD3	1:5:481:PRO:HG3	1.93	0.51
1:D:413:TYR:HE2	1:D:643:PRO:HG3	1.76	0.51
1:E:602:PRO:HD3	1:l:481:PRO:HG3	1.93	0.51
1:F:610:ASP:HB3	1:F:729:ARG:NH2	2.26	0.51
1:J:464:GLN:HE22	1:p:359:GLN:NE2	2.09	0.51
1:K:334:ASN:OD1	1:K:335:ASN:N	2.43	0.51
1:K:464:GLN:HE22	1:W:359:GLN:NE2	2.09	0.51
1:K:523:MET:CE	1:K:523:MET:CA	2.85	0.51
1:L:243:SER:HB2	1:L:245:ARG:NH1	2.21	0.51
1:L:300:ILE:HG21	1:L:730:TYR:HD2	1.76	0.51
1:L:314:LYS:HE3	1:L:316:PHE:HZ	1.76	0.51
1:L:413:TYR:HE2	1:L:643:PRO:HG3	1.76	0.51
1:L:416:GLU:H	1:L:416:GLU:CD	2.18	0.51
1:O:334:ASN:OD1	1:O:335:ASN:N	2.43	0.51
1:P:303:ASN:HD21	1:P:686:LEU:HD22	1.75	0.51
1:Q:300:ILE:HG21	1:Q:730:TYR:HD2	1.76	0.51
1:Q:413:TYR:HE2	1:Q:643:PRO:HG3	1.76	0.51
1:R:284:PHE:CE1	1:R:618:TRP:HH2	2.29	0.51
1:S:284:PHE:CE1	1:S:618:TRP:HH2	2.29	0.51
1:T:334:ASN:OD1	1:T:335:ASN:N	2.43	0.51
1:T:551:ASN:OD1	1:q:447:ARG:NH2	2.43	0.51
1:W:602:PRO:HD3	1:1:481:PRO:HG3	1.93	0.51
1:W:610:ASP:HB3	1:W:729:ARG:NH2	2.26	0.51
1:X:481:PRO:HG3	1:l:602:PRO:HD3	1.93	0.51
1:X:565:ILE:HD11	1:X:729:ARG:NH2	2.25	0.51
1:Y:610:ASP:HB3	1:Y:729:ARG:NH2	2.26	0.51
1:Z:303:ASN:HD21	1:Z:686:LEU:HD22	1.75	0.51
1:Z:359:GLN:NE2	1:t:464:GLN:HE22	2.09	0.51
1:a:359:GLN:NE2	1:c:464:GLN:HE22	2.09	0.51
1:a:416:GLU:CD	1:a:416:GLU:H	2.18	0.51
1:a:440:GLN:O	1:a:464:GLN:NE2	2.28	0.51
1:a:610:ASP:HB3	1:a:729:ARG:NH2	2.26	0.51
1:b:314:LYS:HE3	1:b:316:PHE:HZ	1.76	0.51
1:f:314:LYS:HE3	1:f:316:PHE:HZ	1.76	0.51
1:g:345:ASP:O	1:g:346:SER:CB	2.54	0.51
1:k:303:ASN:HD21	1:k:686:LEU:HD22	1.75	0.51
1:k:565:ILE:HD11	1:k:729:ARG:NH2	2.25	0.51
1:m:284:PHE:CE1	1:m:618:TRP:HH2	2.29	0.51
1:m:334:ASN:OD1	1:m:335:ASN:N	2.43	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:n:413:TYR:HE2	1:n:643:PRO:HG3	1.76	0.51
1:n:508:TYR:HD2	1:n:517:VAL:HG22	1.74	0.51
1:p:300:ILE:HG21	1:p:730:TYR:HD2	1.76	0.51
1:p:523:MET:CE	1:p:523:MET:CA	2.85	0.51
1:q:284:PHE:CE1	1:q:618:TRP:HH2	2.29	0.51
1:r:349:GLN:NE2	1:r:349:GLN:CA	2.73	0.51
1:u:337:THR:HG22	1:w:405:THR:HG21	1.93	0.51
1:x:300:ILE:HG21	1:x:730:TYR:HD2	1.76	0.51
1:y:413:TYR:HE2	1:y:643:PRO:HG3	1.76	0.51
1:z:314:LYS:HE3	1:z:316:PHE:HZ	1.76	0.51
1:z:334:ASN:OD1	1:z:335:ASN:N	2.43	0.51
1:z:413:TYR:HE2	1:z:643:PRO:HG3	1.76	0.51
1:1:300:ILE:HG21	1:1:730:TYR:HD2	1.76	0.51
1:2:413:TYR:HE2	1:2:643:PRO:HG3	1.76	0.51
1:7:314:LYS:HE3	1:7:316:PHE:HZ	1.76	0.51
1:7:587:ASN:OD1	1:7:588:ARG:N	2.42	0.51
1:B:300:ILE:HG21	1:B:730:TYR:HD2	1.76	0.51
1:B:416:GLU:CD	1:B:416:GLU:H	2.18	0.51
1:D:565:ILE:HD11	1:D:729:ARG:NH2	2.25	0.51
1:D:610:ASP:HB3	1:D:729:ARG:NH2	2.26	0.51
1:G:303:ASN:HD21	1:G:686:LEU:HD22	1.75	0.51
1:G:334:ASN:OD1	1:G:335:ASN:N	2.43	0.51
1:G:413:TYR:HE2	1:G:643:PRO:HG3	1.76	0.51
1:G:464:GLN:HE22	1:8:359:GLN:NE2	2.09	0.51
1:H:413:TYR:HE2	1:H:643:PRO:HG3	1.76	0.51
1:I:440:GLN:O	1:I:464:GLN:NE2	2.28	0.51
1:J:602:PRO:HD3	1:p:481:PRO:HG3	1.93	0.51
1:K:300:ILE:HG21	1:K:730:TYR:HD2	1.76	0.51
1:L:334:ASN:OD1	1:L:335:ASN:N	2.43	0.51
1:N:610:ASP:HB3	1:N:729:ARG:NH2	2.26	0.51
1:O:310:ARG:NE	1:O:683:GLU:OE1	2.41	0.51
1:P:610:ASP:HB3	1:P:729:ARG:NH2	2.25	0.51
1:R:463:SER:OG	1:m:551:ASN:ND2	2.42	0.51
1:W:300:ILE:HG21	1:W:730:TYR:HD2	1.76	0.51
1:Y:587:ASN:OD1	1:Y:588:ARG:N	2.42	0.51
1:a:464:GLN:HE22	1:v:359:GLN:NE2	2.09	0.51
1:c:405:THR:HG21	1:r:337:THR:HG22	1.92	0.51
1:f:337:THR:HG22	1:i:405:THR:HG21	1.93	0.51
1:i:610:ASP:HB3	1:i:729:ARG:NH2	2.26	0.51
1:j:303:ASN:HD21	1:j:686:LEU:HD22	1.75	0.51
1:j:464:GLN:HE22	1:2:359:GLN:NE2	2.09	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:m:303:ASN:HD21	1:m:686:LEU:HD22	1.75	0.51
1:n:565:ILE:HD11	1:n:729:ARG:NH2	2.25	0.51
1:q:413:TYR:HE2	1:q:643:PRO:HG3	1.76	0.51
1:r:284:PHE:CE1	1:r:618:TRP:HH2	2.29	0.51
1:t:303:ASN:HD21	1:t:686:LEU:HD22	1.75	0.51
1:t:413:TYR:HE2	1:t:643:PRO:HG3	1.76	0.51
1:v:300:ILE:HG21	1:v:730:TYR:HD2	1.76	0.51
1:x:416:GLU:CD	1:x:416:GLU:H	2.18	0.51
1:y:314:LYS:HE3	1:y:316:PHE:HZ	1.76	0.51
1:y:610:ASP:HB3	1:y:729:ARG:NH2	2.26	0.51
1:z:359:GLN:NE2	1:7:464:GLN:HE22	2.09	0.51
1:3:416:GLU:CD	1:3:416:GLU:H	2.18	0.51
1:4:314:LYS:HE3	1:4:316:PHE:HZ	1.76	0.51
1:6:413:TYR:HE2	1:6:643:PRO:HG3	1.76	0.51
1:8:303:ASN:HD21	1:8:686:LEU:HD22	1.75	0.51
1:A:300:ILE:HG21	1:A:730:TYR:HD2	1.76	0.51
1:B:464:GLN:HE22	1:4:359:GLN:NE2	2.09	0.51
1:C:334:ASN:OD1	1:C:335:ASN:N	2.43	0.51
1:H:464:GLN:HE22	1:S:359:GLN:NE2	2.09	0.51
1:J:359:GLN:NE2	1:P:464:GLN:HE22	2.09	0.51
1:K:359:GLN:NE2	1:1:464:GLN:HE22	2.09	0.51
1:M:300:ILE:HG21	1:M:730:TYR:HD2	1.76	0.51
1:N:350:LEU:HD22	1:N:395:LEU:HD21	1.90	0.51
1:N:405:THR:HG21	1:b:337:THR:HG22	1.93	0.51
1:O:337:THR:HG22	1:s:405:THR:HG21	1.93	0.51
1:O:610:ASP:HB3	1:O:729:ARG:NH2	2.26	0.51
1:P:314:LYS:HE3	1:P:316:PHE:HZ	1.76	0.51
1:Q:416:GLU:CD	1:Q:416:GLU:H	2.18	0.51
1:R:337:THR:HG22	1:d:405:THR:HG21	1.93	0.51
1:T:284:PHE:CE1	1:T:618:TRP:HH2	2.29	0.51
1:T:481:PRO:HG3	1:q:602:PRO:HD3	1.93	0.51
1:U:610:ASP:HB3	1:U:729:ARG:NH2	2.26	0.51
1:V:523:MET:CE	1:V:523:MET:CA	2.85	0.51
1:X:413:TYR:HE2	1:X:643:PRO:HG3	1.76	0.51
1:Y:314:LYS:HE3	1:Y:316:PHE:HZ	1.76	0.51
1:b:416:GLU:CD	1:b:416:GLU:H	2.18	0.51
1:c:300:ILE:HG21	1:c:730:TYR:HD2	1.76	0.51
1:c:359:GLN:NE2	1:v:464:GLN:HE22	2.09	0.51
1:e:300:ILE:HG21	1:e:730:TYR:HD2	1.76	0.51
1:g:334:ASN:OD1	1:g:335:ASN:N	2.43	0.51
1:h:300:ILE:HG21	1:h:730:TYR:HD2	1.76	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:i:300:ILE:HG21	1:i:730:TYR:HD2	1.76	0.51
1:i:350:LEU:HD22	1:i:395:LEU:HD21	1.90	0.51
1:j:314:LYS:HE3	1:j:316:PHE:HZ	1.76	0.51
1:j:440:GLN:O	1:j:464:GLN:NE2	2.28	0.51
1:k:314:LYS:HE3	1:k:316:PHE:HZ	1.76	0.51
1:k:610:ASP:HB3	1:k:729:ARG:NH2	2.25	0.51
1:l:334:ASN:OD1	1:l:335:ASN:N	2.43	0.51
1:m:610:ASP:HB3	1:m:729:ARG:NH2	2.26	0.51
1:n:610:ASP:HB3	1:n:729:ARG:NH2	2.26	0.51
1:x:413:TYR:HE2	1:x:643:PRO:HG3	1.76	0.51
1:1:337:THR:HG22	1:3:405:THR:HG21	1.93	0.51
1:3:334:ASN:OD1	1:3:335:ASN:N	2.43	0.51
1:4:300:ILE:HG21	1:4:730:TYR:HD2	1.76	0.51
1:5:416:GLU:CD	1:5:416:GLU:H	2.18	0.51
1:6:300:ILE:HG21	1:6:730:TYR:HD2	1.76	0.51
1:7:610:ASP:HB3	1:7:729:ARG:NH2	2.26	0.51
1:A:481:PRO:HG3	1:3:602:PRO:HD3	1.92	0.50
1:B:303:ASN:HD21	1:B:686:LEU:HD22	1.75	0.50
1:C:474:SER:HA	1:5:518:ASN:HB3	1.91	0.50
1:F:314:LYS:HE3	1:F:316:PHE:HZ	1.76	0.50
1:H:416:GLU:CD	1:H:416:GLU:H	2.18	0.50
1:H:518:ASN:HB3	1:g:474:SER:HA	1.91	0.50
1:I:405:THR:HG21	1:Y:337:THR:HG22	1.93	0.50
1:I:602:PRO:HD3	1:N:481:PRO:HG3	1.93	0.50
1:N:284:PHE:CE1	1:N:618:TRP:HH2	2.29	0.50
1:N:300:ILE:HG21	1:N:730:TYR:HD2	1.76	0.50
1:T:243:SER:HB2	1:T:245:ARG:NH1	2.22	0.50
1:T:350:LEU:HD22	1:T:395:LEU:HD21	1.90	0.50
1:U:314:LYS:HE3	1:U:316:PHE:HZ	1.76	0.50
1:U:387:VAL:HG12	1:U:388:GLY:N	2.21	0.50
1:U:405:THR:HG21	1:l:337:THR:HG22	1.94	0.50
1:V:359:GLN:NE2	1:2:464:GLN:HE22	2.09	0.50
1:W:337:THR:HG22	1:4:405:THR:HG21	1.93	0.50
1:X:610:ASP:HB3	1:X:729:ARG:NH2	2.26	0.50
1:Y:284:PHE:CE1	1:Y:618:TRP:HH2	2.29	0.50
1:a:334:ASN:OD1	1:a:335:ASN:N	2.43	0.50
1:b:610:ASP:HB3	1:b:729:ARG:NH2	2.26	0.50
1:d:610:ASP:HB3	1:d:729:ARG:NH2	2.26	0.50
1:f:416:GLU:CD	1:f:416:GLU:H	2.18	0.50
1:f:610:ASP:HB3	1:f:729:ARG:NH2	2.26	0.50
1:g:303:ASN:HD21	1:g:686:LEU:HD22	1.75	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:i:284:PHE:CE1	1:i:618:TRP:HH2	2.29	0.50
1:i:481:PRO:HG3	1:u:602:PRO:HD3	1.93	0.50
1:j:610:ASP:HB3	1:j:729:ARG:NH2	2.26	0.50
1:k:481:PRO:HG3	1:m:602:PRO:HD3	1.93	0.50
1:l:310:ARG:NE	1:l:683:GLU:OE1	2.41	0.50
1:l:610:ASP:HB3	1:l:729:ARG:NH2	2.26	0.50
1:o:610:ASP:HB3	1:o:729:ARG:NH2	2.26	0.50
1:r:416:GLU:CD	1:r:416:GLU:H	2.18	0.50
1:s:464:GLN:HE22	1:u:359:GLN:NE2	2.09	0.50
1:t:334:ASN:OD1	1:t:335:ASN:N	2.43	0.50
1:u:300:ILE:HG21	1:u:730:TYR:HD2	1.76	0.50
1:u:416:GLU:CD	1:u:416:GLU:H	2.18	0.50
1:u:440:GLN:O	1:u:464:GLN:NE2	2.28	0.50
1:v:337:THR:HG22	1:6:405:THR:HG21	1.93	0.50
1:2:303:ASN:HD21	1:2:686:LEU:HD22	1.75	0.50
1:4:337:THR:HG22	1:8:405:THR:HG21	1.93	0.50
1:A:337:THR:HG22	1:W:405:THR:HG21	1.93	0.50
1:C:413:TYR:HE2	1:C:643:PRO:HG3	1.76	0.50
1:D:314:LYS:HE3	1:D:316:PHE:HZ	1.76	0.50
1:E:300:ILE:HG21	1:E:730:TYR:HD2	1.76	0.50
1:E:481:PRO:HG3	1:X:602:PRO:HD3	1.93	0.50
1:I:300:ILE:HG21	1:I:730:TYR:HD2	1.76	0.50
1:I:359:GLN:NE2	1:U:464:GLN:HE22	2.09	0.50
1:I:416:GLU:CD	1:I:416:GLU:H	2.18	0.50
1:I:481:PRO:HG3	1:U:602:PRO:HD3	1.93	0.50
1:J:337:THR:HG22	1:b:405:THR:HG21	1.92	0.50
1:K:314:LYS:HE3	1:K:316:PHE:HZ	1.76	0.50
1:K:337:THR:HG22	1:Z:405:THR:HG21	1.93	0.50
1:K:405:THR:HG21	1:6:337:THR:HG22	1.93	0.50
1:L:464:GLN:HE22	1:Q:359:GLN:NE2	2.09	0.50
1:M:413:TYR:HE2	1:M:643:PRO:HG3	1.76	0.50
1:P:387:VAL:HG12	1:P:388:GLY:N	2.21	0.50
1:R:314:LYS:HE3	1:R:316:PHE:HZ	1.76	0.50
1:S:416:GLU:CD	1:S:416:GLU:H	2.18	0.50
1:S:464:GLN:HE22	1:g:359:GLN:NE2	2.08	0.50
1:T:405:THR:HG21	1:k:337:THR:HG22	1.93	0.50
1:V:284:PHE:CE1	1:V:618:TRP:HH2	2.29	0.50
1:V:416:GLU:CD	1:V:416:GLU:H	2.18	0.50
1:W:303:ASN:HD21	1:W:686:LEU:HD22	1.75	0.50
1:Z:350:LEU:HD22	1:Z:395:LEU:HD21	1.90	0.50
1:a:481:PRO:HG3	1:c:602:PRO:HD3	1.93	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:d:287:PHE:CD2	1:d:617:ILE:HG22	2.47	0.50
1:e:314:LYS:HE3	1:e:316:PHE:HZ	1.76	0.50
1:f:284:PHE:CE1	1:f:618:TRP:HH2	2.29	0.50
1:m:243:SER:HB2	1:m:245:ARG:NH1	2.22	0.50
1:m:300:ILE:HG21	1:m:730:TYR:HD2	1.76	0.50
1:m:387:VAL:HG12	1:m:388:GLY:N	2.21	0.50
1:o:602:PRO:HD3	1:w:481:PRO:HG3	1.92	0.50
1:p:284:PHE:CE1	1:p:618:TRP:HH2	2.29	0.50
1:p:416:GLU:CD	1:p:416:GLU:H	2.18	0.50
1:r:300:ILE:HG21	1:r:730:TYR:HD2	1.76	0.50
1:r:359:GLN:NE2	1:5:464:GLN:HE22	2.09	0.50
1:s:387:VAL:HG12	1:s:388:GLY:N	2.21	0.50
1:u:405:THR:HG21	1:7:337:THR:HG22	1.93	0.50
1:v:416:GLU:CD	1:v:416:GLU:H	2.18	0.50
1:w:310:ARG:NE	1:w:683:GLU:OE1	2.41	0.50
1:1:303:ASN:HD21	1:1:686:LEU:HD22	1.75	0.50
1:1:426:HIS:HE1	1:1:607:GLN:NE2	2.01	0.50
1:2:300:ILE:HG21	1:2:730:TYR:HD2	1.76	0.50
1:3:284:PHE:CE1	1:3:618:TRP:HH2	2.29	0.50
1:7:284:PHE:CE1	1:7:618:TRP:HH2	2.29	0.50
1:A:284:PHE:CE1	1:A:618:TRP:HH2	2.29	0.50
1:B:314:LYS:HE3	1:B:316:PHE:HZ	1.76	0.50
1:C:553:ASP:OD1	1:C:554:ILE:N	2.43	0.50
1:E:310:ARG:NE	1:E:683:GLU:OE1	2.41	0.50
1:E:314:LYS:HE3	1:E:316:PHE:HZ	1.76	0.50
1:E:387:VAL:HG12	1:E:388:GLY:N	2.21	0.50
1:F:303:ASN:HD21	1:F:686:LEU:HD22	1.75	0.50
1:G:284:PHE:CE1	1:G:618:TRP:HH2	2.29	0.50
1:J:300:ILE:HG21	1:J:730:TYR:HD2	1.76	0.50
1:M:359:GLN:NE2	1:8:464:GLN:HE22	2.09	0.50
1:M:405:THR:HG21	1:p:337:THR:HG22	1.93	0.50
1:N:303:ASN:OD1	1:N:303:ASN:N	2.44	0.50
1:N:602:PRO:HD3	1:U:481:PRO:HG3	1.93	0.50
1:P:553:ASP:OD1	1:P:554:ILE:N	2.43	0.50
1:Q:314:LYS:HE3	1:Q:316:PHE:HZ	1.76	0.50
1:Q:602:PRO:HD3	1:Y:481:PRO:HG3	1.93	0.50
1:R:405:THR:HG21	1:X:337:THR:HG22	1.93	0.50
1:R:413:TYR:HE2	1:R:643:PRO:HG3	1.76	0.50
1:T:300:ILE:HG21	1:T:730:TYR:HD2	1.76	0.50
1:T:387:VAL:HG12	1:T:388:GLY:N	2.21	0.50
1:U:303:ASN:OD1	1:U:303:ASN:N	2.44	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:V:337:THR:HG22	1:h:405:THR:HG21	1.93	0.50
1:Z:464:GLN:HE22	1:h:359:GLN:NE2	2.09	0.50
1:a:287:PHE:CD2	1:a:617:ILE:HG22	2.47	0.50
1:b:284:PHE:CE1	1:b:618:TRP:HH2	2.29	0.50
1:e:387:VAL:HG12	1:e:388:GLY:N	2.21	0.50
1:h:413:TYR:HE2	1:h:643:PRO:HG3	1.76	0.50
1:i:303:ASN:OD1	1:i:303:ASN:N	2.44	0.50
1:i:602:PRO:HD3	1:s:481:PRO:HG3	1.93	0.50
1:m:350:LEU:HD22	1:m:395:LEU:HD21	1.90	0.50
1:n:284:PHE:CE1	1:n:618:TRP:HH2	2.29	0.50
1:n:287:PHE:CD2	1:n:617:ILE:HG22	2.47	0.50
1:n:314:LYS:HE3	1:n:316:PHE:HZ	1.76	0.50
1:o:413:TYR:HE2	1:o:643:PRO:HG3	1.76	0.50
1:p:426:HIS:HE1	1:p:607:GLN:NE2	2.01	0.50
1:q:314:LYS:HE3	1:q:316:PHE:HZ	1.76	0.50
1:s:314:LYS:HE3	1:s:316:PHE:HZ	1.76	0.50
1:s:602:PRO:HD3	1:u:481:PRO:HG3	1.93	0.50
1:s:610:ASP:HB3	1:s:729:ARG:NH2	2.26	0.50
1:w:300:ILE:HG21	1:w:730:TYR:HD2	1.76	0.50
1:w:303:ASN:OD1	1:w:303:ASN:N	2.44	0.50
1:x:359:GLN:NE2	1:z:464:GLN:HE22	2.09	0.50
1:x:602:PRO:HD3	1:7:481:PRO:HG3	1.93	0.50
1:1:284:PHE:CE1	1:1:618:TRP:HH2	2.29	0.50
1:2:350:LEU:HD22	1:2:395:LEU:HD21	1.90	0.50
1:6:303:ASN:HD21	1:6:686:LEU:HD22	1.75	0.50
1:A:310:ARG:NE	1:A:683:GLU:OE1	2.41	0.50
1:A:359:GLN:NE2	1:3:464:GLN:HE22	2.10	0.50
1:A:416:GLU:CD	1:A:416:GLU:H	2.18	0.50
1:B:284:PHE:CE1	1:B:618:TRP:HH2	2.29	0.50
1:B:359:GLN:NE2	1:6:464:GLN:HE22	2.09	0.50
1:D:481:PRO:HG3	1:T:602:PRO:HD3	1.93	0.50
1:E:654:PRO:HG3	1:S:248:ALA:HB2	1.92	0.50
1:F:350:LEU:HD22	1:F:395:LEU:HD21	1.90	0.50
1:H:405:THR:HG21	1:3:337:THR:HG22	1.93	0.50
1:H:602:PRO:HD3	1:S:481:PRO:HG3	1.94	0.50
1:J:303:ASN:HD21	1:J:686:LEU:HD22	1.75	0.50
1:N:337:THR:HG22	1:Q:405:THR:HG21	1.93	0.50
1:O:413:TYR:HE2	1:O:643:PRO:HG3	1.76	0.50
1:P:310:ARG:NE	1:P:683:GLU:OE1	2.41	0.50
1:R:481:PRO:HG3	1:k:602:PRO:HD3	1.93	0.50
1:R:602:PRO:HD3	1:m:481:PRO:HG3	1.93	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:S:300:ILE:HG21	1:S:730:TYR:HD2	1.76	0.50
1:S:523:MET:CE	1:S:523:MET:CA	2.85	0.50
1:Z:413:TYR:HE2	1:Z:643:PRO:HG3	1.76	0.50
1:a:284:PHE:CE1	1:a:618:TRP:HH2	2.29	0.50
1:a:314:LYS:HE3	1:a:316:PHE:HZ	1.76	0.50
1:a:337:THR:HG22	1:5:405:THR:HG21	1.93	0.50
1:c:314:LYS:HE3	1:c:316:PHE:HZ	1.76	0.50
1:c:413:TYR:HE2	1:c:643:PRO:HG3	1.76	0.50
1:d:284:PHE:CE1	1:d:618:TRP:HH2	2.29	0.50
1:d:314:LYS:HE3	1:d:316:PHE:HZ	1.76	0.50
1:e:602:PRO:HD3	1:3:481:PRO:HG3	1.93	0.50
1:i:314:LYS:HE3	1:i:316:PHE:HZ	1.76	0.50
1:i:553:ASP:OD1	1:i:554:ILE:N	2.43	0.50
1:j:310:ARG:NE	1:j:683:GLU:OE1	2.41	0.50
1:l:413:TYR:HE2	1:l:643:PRO:HG3	1.76	0.50
1:p:387:VAL:HG12	1:p:388:GLY:N	2.21	0.50
1:r:248:ALA:HB2	1:w:654:PRO:HG3	1.92	0.50
1:r:481:PRO:HG3	1:5:602:PRO:HD3	1.94	0.50
1:t:284:PHE:CE1	1:t:618:TRP:HH2	2.29	0.50
1:v:287:PHE:CD2	1:v:617:ILE:HG22	2.47	0.50
1:w:314:LYS:HE3	1:w:316:PHE:HZ	1.76	0.50
1:y:303:ASN:HD21	1:y:686:LEU:HD22	1.75	0.50
1:3:287:PHE:CD2	1:3:617:ILE:HG22	2.47	0.50
1:3:413:TYR:HE2	1:3:643:PRO:HG3	1.76	0.50
1:5:303:ASN:HD21	1:5:686:LEU:HD22	1.75	0.50
1:8:303:ASN:N	1:8:303:ASN:OD1	2.44	0.50
1:8:350:LEU:HD22	1:8:395:LEU:HD21	1.90	0.50
1:8:413:TYR:HE2	1:8:643:PRO:HG3	1.76	0.50
1:A:287:PHE:CD2	1:A:617:ILE:HG22	2.47	0.50
1:B:426:HIS:HE1	1:B:607:GLN:NE2	2.01	0.50
1:D:284:PHE:CE1	1:D:618:TRP:HH2	2.29	0.50
1:D:387:VAL:HG12	1:D:388:GLY:N	2.21	0.50
1:E:287:PHE:CD2	1:E:617:ILE:HG22	2.47	0.50
1:E:303:ASN:OD1	1:E:303:ASN:N	2.44	0.50
1:F:359:GLN:NE2	1:n:464:GLN:HE22	2.09	0.50
1:I:310:ARG:NE	1:I:683:GLU:OE1	2.41	0.50
1:K:610:ASP:HB3	1:K:729:ARG:NH2	2.26	0.50
1:M:610:ASP:HB3	1:M:729:ARG:NH2	2.26	0.50
1:N:314:LYS:HE3	1:N:316:PHE:HZ	1.76	0.50
1:N:553:ASP:OD1	1:N:554:ILE:N	2.43	0.50
1:Q:464:GLN:HE22	1:Y:359:GLN:NE2	2.09	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:S:434:MET:SD	1:S:473:GLN:HG2	2.52	0.50
1:V:481:PRO:HG3	1:2:602:PRO:HD3	1.94	0.50
1:W:464:GLN:HE22	1:1:359:GLN:NE2	2.09	0.50
1:X:359:GLN:NE2	1:l:464:GLN:HE22	2.09	0.50
1:b:413:TYR:HE2	1:b:643:PRO:HG3	1.76	0.50
1:c:387:VAL:HG12	1:c:388:GLY:N	2.21	0.50
1:f:413:TYR:HE2	1:f:643:PRO:HG3	1.76	0.50
1:g:553:ASP:OD1	1:g:554:ILE:N	2.43	0.50
1:h:284:PHE:CE1	1:h:618:TRP:HH2	2.29	0.50
1:i:337:THR:HG22	1:x:405:THR:HG21	1.93	0.50
1:k:284:PHE:CE1	1:k:618:TRP:HH2	2.29	0.50
1:k:434:MET:SD	1:k:473:GLN:HG2	2.52	0.50
1:l:303:ASN:HD21	1:l:686:LEU:HD22	1.75	0.50
1:m:434:MET:SD	1:m:473:GLN:HG2	2.52	0.50
1:r:523:MET:CE	1:r:523:MET:CA	2.85	0.50
1:s:300:ILE:HG21	1:s:730:TYR:HD2	1.76	0.50
1:s:303:ASN:OD1	1:s:303:ASN:N	2.44	0.50
1:u:284:PHE:CE1	1:u:618:TRP:HH2	2.29	0.50
1:u:310:ARG:NE	1:u:683:GLU:OE1	2.41	0.50
1:v:284:PHE:CE1	1:v:618:TRP:HH2	2.29	0.50
1:w:287:PHE:CD2	1:w:617:ILE:HG22	2.47	0.50
1:x:314:LYS:HE3	1:x:316:PHE:HZ	1.76	0.50
1:z:284:PHE:CE1	1:z:618:TRP:HH2	2.29	0.50
1:1:314:LYS:HE3	1:1:316:PHE:HZ	1.76	0.50
1:2:287:PHE:CD2	1:2:617:ILE:HG22	2.47	0.50
1:2:314:LYS:HE3	1:2:316:PHE:HZ	1.76	0.50
1:4:243:SER:HB2	1:4:245:ARG:NH1	2.22	0.50
1:4:610:ASP:HB3	1:4:729:ARG:NH2	2.26	0.50
1:5:287:PHE:CD2	1:5:617:ILE:HG22	2.47	0.50
1:7:553:ASP:OD1	1:7:554:ILE:N	2.43	0.50
1:B:287:PHE:CD2	1:B:617:ILE:HG22	2.47	0.50
1:B:405:THR:HG21	1:M:337:THR:HG22	1.93	0.50
1:C:284:PHE:CE1	1:C:618:TRP:HH2	2.29	0.50
1:C:405:THR:HG21	1:P:337:THR:HG22	1.93	0.50
1:D:434:MET:SD	1:D:473:GLN:HG2	2.52	0.50
1:E:523:MET:CE	1:E:523:MET:CA	2.85	0.50
1:G:434:MET:SD	1:G:473:GLN:HG2	2.52	0.50
1:H:287:PHE:CD2	1:H:617:ILE:HG22	2.47	0.50
1:H:303:ASN:HD21	1:H:686:LEU:HD22	1.75	0.50
1:J:287:PHE:CD2	1:J:617:ILE:HG22	2.47	0.50
1:J:314:LYS:HE3	1:J:316:PHE:HZ	1.76	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:243:SER:HB2	1:K:245:ARG:NH1	2.21	0.50
1:L:287:PHE:CD2	1:L:617:ILE:HG22	2.47	0.50
1:L:405:THR:HG21	1:8:337:THR:HG22	1.93	0.50
1:M:284:PHE:CE1	1:M:618:TRP:HH2	2.29	0.50
1:P:359:GLN:NE2	1:p:464:GLN:HE22	2.09	0.50
1:P:405:THR:HG21	1:n:337:THR:HG22	1.93	0.50
1:P:434:MET:SD	1:P:473:GLN:HG2	2.52	0.50
1:T:434:MET:SD	1:T:473:GLN:HG2	2.52	0.50
1:U:284:PHE:CE1	1:U:618:TRP:HH2	2.29	0.50
1:U:434:MET:SD	1:U:473:GLN:HG2	2.52	0.50
1:V:314:LYS:HE3	1:V:316:PHE:HZ	1.76	0.50
1:V:553:ASP:OD1	1:V:554:ILE:N	2.43	0.50
1:W:287:PHE:CD2	1:W:617:ILE:HG22	2.47	0.50
1:Y:303:ASN:OD1	1:Y:303:ASN:N	2.44	0.50
1:Z:303:ASN:N	1:Z:303:ASN:OD1	2.44	0.50
1:Z:337:THR:HG22	1:z:405:THR:HG21	1.93	0.50
1:Z:345:ASP:O	1:Z:346:SER:CB	2.54	0.50
1:a:303:ASN:HD21	1:a:686:LEU:HD22	1.75	0.50
1:d:300:ILE:HG21	1:d:730:TYR:HD2	1.76	0.50
1:d:337:THR:HG22	1:j:405:THR:HG21	1.93	0.50
1:d:464:GLN:HE22	1:y:359:GLN:NE2	2.09	0.50
1:e:284:PHE:CE1	1:e:618:TRP:HH2	2.29	0.50
1:e:413:TYR:HE2	1:e:643:PRO:HG3	1.76	0.50
1:e:610:ASP:HB3	1:e:729:ARG:NH2	2.25	0.50
1:f:434:MET:SD	1:f:473:GLN:HG2	2.52	0.50
1:g:300:ILE:HG21	1:g:730:TYR:HD2	1.76	0.50
1:g:413:TYR:HE2	1:g:643:PRO:HG3	1.76	0.50
1:h:337:THR:HG22	1:1:405:THR:HG21	1.94	0.50
1:h:434:MET:SD	1:h:473:GLN:HG2	2.52	0.50
1:h:610:ASP:HB3	1:h:729:ARG:NH2	2.26	0.50
1:j:387:VAL:HG12	1:j:388:GLY:N	2.21	0.50
1:j:434:MET:SD	1:j:473:GLN:HG2	2.52	0.50
1:j:553:ASP:OD1	1:j:554:ILE:N	2.43	0.50
1:n:300:ILE:HG21	1:n:730:TYR:HD2	1.76	0.50
1:o:654:PRO:HG3	1:q:248:ALA:HB2	1.94	0.50
1:r:434:MET:SD	1:r:473:GLN:HG2	2.52	0.50
1:t:654:PRO:HG3	1:2:248:ALA:HB2	1.92	0.50
1:v:310:ARG:NE	1:v:683:GLU:OE1	2.41	0.50
1:w:523:MET:CE	1:w:523:MET:CA	2.85	0.50
1:x:464:GLN:HE22	1:7:359:GLN:NE2	2.09	0.50
1:y:287:PHE:CD2	1:y:617:ILE:HG22	2.47	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:y:350:LEU:HD22	1:y:395:LEU:HD21	1.90	0.50
1:z:287:PHE:CD2	1:z:617:ILE:HG22	2.47	0.50
1:z:350:LEU:HD22	1:z:395:LEU:HD21	1.90	0.50
1:4:434:MET:SD	1:4:473:GLN:HG2	2.52	0.50
1:B:413:TYR:HE2	1:B:643:PRO:HG3	1.76	0.50
1:B:434:MET:SD	1:B:473:GLN:HG2	2.52	0.50
1:B:602:PRO:HD3	1:4:481:PRO:HG3	1.93	0.50
1:C:300:ILE:HG21	1:C:730:TYR:HD2	1.76	0.50
1:E:345:ASP:O	1:E:346:SER:CB	2.54	0.50
1:H:359:GLN:NE2	1:g:464:GLN:HE22	2.09	0.50
1:I:284:PHE:CE1	1:I:618:TRP:HH2	2.29	0.50
1:I:287:PHE:CD2	1:I:617:ILE:HG22	2.47	0.50
1:J:350:LEU:HD22	1:J:395:LEU:HD21	1.90	0.50
1:K:434:MET:SD	1:K:473:GLN:HG2	2.52	0.50
1:L:284:PHE:CE1	1:L:618:TRP:HH2	2.29	0.50
1:M:287:PHE:CD2	1:M:617:ILE:HG22	2.47	0.50
1:M:434:MET:SD	1:M:473:GLN:HG2	2.52	0.50
1:O:303:ASN:HD21	1:O:686:LEU:HD22	1.75	0.50
1:O:464:GLN:HE22	1:o:359:GLN:NE2	2.10	0.50
1:Q:284:PHE:CE1	1:Q:618:TRP:HH2	2.29	0.50
1:S:413:TYR:HE2	1:S:643:PRO:HG3	1.76	0.50
1:U:300:ILE:HG21	1:U:730:TYR:HD2	1.76	0.50
1:V:434:MET:SD	1:V:473:GLN:HG2	2.52	0.50
1:V:464:GLN:HE22	1:j:359:GLN:NE2	2.10	0.50
1:W:334:ASN:OD1	1:W:335:ASN:N	2.43	0.50
1:Y:287:PHE:CD2	1:Y:617:ILE:HG22	2.47	0.50
1:Y:440:GLN:O	1:Y:464:GLN:NE2	2.28	0.50
1:Y:553:ASP:OD1	1:Y:554:ILE:N	2.43	0.50
1:a:413:TYR:HE2	1:a:643:PRO:HG3	1.76	0.50
1:b:434:MET:SD	1:b:473:GLN:HG2	2.52	0.50
1:c:284:PHE:CE1	1:c:618:TRP:HH2	2.29	0.50
1:c:610:ASP:HB3	1:c:729:ARG:NH2	2.26	0.50
1:g:284:PHE:CE1	1:g:618:TRP:HH2	2.29	0.50
1:g:405:THR:HG21	1:j:337:THR:HG22	1.93	0.50
1:i:310:ARG:NE	1:i:683:GLU:OE1	2.41	0.50
1:i:359:GLN:NE2	1:u:464:GLN:HE22	2.09	0.50
1:j:413:TYR:HE2	1:j:643:PRO:HG3	1.76	0.50
1:j:602:PRO:HD3	1:2:481:PRO:HG3	1.93	0.50
1:k:387:VAL:HG12	1:k:388:GLY:N	2.21	0.50
1:r:413:TYR:HE2	1:r:643:PRO:HG3	1.76	0.50
1:s:284:PHE:CE1	1:s:618:TRP:HH2	2.29	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:t:434:MET:SD	1:t:473:GLN:HG2	2.52	0.50
1:u:287:PHE:CD2	1:u:617:ILE:HG22	2.47	0.50
1:w:387:VAL:HG12	1:w:388:GLY:N	2.21	0.50
1:x:429:SER:OG	1:x:431:ASP:OD1	2.23	0.50
1:1:287:PHE:CD2	1:1:617:ILE:HG22	2.47	0.50
1:3:314:LYS:HE3	1:3:316:PHE:HZ	1.76	0.50
1:6:284:PHE:CE1	1:6:618:TRP:HH2	2.29	0.50
1:6:287:PHE:CD2	1:6:617:ILE:HG22	2.47	0.50
1:6:334:ASN:OD1	1:6:335:ASN:N	2.43	0.50
1:7:303:ASN:OD1	1:7:303:ASN:N	2.44	0.50
1:A:440:GLN:O	1:A:464:GLN:NE2	2.28	0.50
1:C:359:GLN:NE2	1:r:464:GLN:HE22	2.09	0.50
1:E:464:GLN:HE22	1:l:359:GLN:NE2	2.09	0.50
1:F:287:PHE:CD2	1:F:617:ILE:HG22	2.47	0.50
1:F:303:ASN:OD1	1:F:303:ASN:N	2.44	0.50
1:K:345:ASP:O	1:K:346:SER:CB	2.54	0.50
1:L:481:PRO:HG3	1:Y:602:PRO:HD3	1.93	0.50
1:P:413:TYR:HE2	1:P:643:PRO:HG3	1.76	0.50
1:R:464:GLN:HE22	1:m:359:GLN:NE2	2.09	0.50
1:S:303:ASN:N	1:S:303:ASN:OD1	2.44	0.50
1:T:486:GLN:CG	1:q:584:GLN:HE22	2.24	0.50
1:W:284:PHE:CE1	1:W:618:TRP:HH2	2.29	0.50
1:c:481:PRO:HG3	1:v:602:PRO:HD3	1.93	0.50
1:g:303:ASN:OD1	1:g:303:ASN:N	2.44	0.50
1:i:349:GLN:HE21	1:i:349:GLN:CA	2.04	0.50
1:l:349:GLN:HE21	1:l:349:GLN:CA	2.04	0.50
1:n:434:MET:SD	1:n:473:GLN:HG2	2.52	0.50
1:p:314:LYS:HE3	1:p:316:PHE:HZ	1.76	0.50
1:p:434:MET:SD	1:p:473:GLN:HG2	2.52	0.50
1:p:553:ASP:OD1	1:p:554:ILE:N	2.43	0.50
1:v:405:THR:HG21	1:z:337:THR:HG22	1.93	0.50
1:x:284:PHE:CE1	1:x:618:TRP:HH2	2.29	0.50
1:3:303:ASN:HD21	1:3:686:LEU:HD22	1.75	0.50
1:7:287:PHE:CD2	1:7:617:ILE:HG22	2.47	0.50
1:7:310:ARG:NE	1:7:683:GLU:OE1	2.41	0.50
1:A:434:MET:SD	1:A:473:GLN:HG2	2.52	0.50
1:C:464:GLN:HE22	1:5:359:GLN:NE2	2.10	0.50
1:D:359:GLN:NE2	1:T:464:GLN:HE22	2.09	0.50
1:E:284:PHE:CE1	1:E:618:TRP:HH2	2.29	0.50
1:F:434:MET:SD	1:F:473:GLN:HG2	2.52	0.50
1:G:359:GLN:NE2	1:M:464:GLN:HE22	2.09	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:464:GLN:HE22	1:N:359:GLN:NE2	2.09	0.50
1:J:349:GLN:HE21	1:J:349:GLN:CA	2.04	0.50
1:J:481:PRO:HG3	1:P:602:PRO:HD3	1.93	0.50
1:K:284:PHE:CE1	1:K:618:TRP:HH2	2.29	0.50
1:K:287:PHE:CD2	1:K:617:ILE:HG22	2.47	0.50
1:K:481:PRO:HG3	1:1:602:PRO:HD3	1.93	0.50
1:L:350:LEU:HD22	1:L:395:LEU:HD21	1.90	0.50
1:N:349:GLN:HE21	1:N:349:GLN:CA	2.04	0.50
1:O:287:PHE:CD2	1:O:617:ILE:HG22	2.47	0.50
1:O:359:GLN:NE2	1:w:464:GLN:HE22	2.09	0.50
1:Q:429:SER:OG	1:Q:431:ASP:OD1	2.24	0.50
1:S:287:PHE:CD2	1:S:617:ILE:HG22	2.47	0.50
1:V:287:PHE:CD2	1:V:617:ILE:HG22	2.47	0.50
1:V:426:HIS:HE1	1:V:607:GLN:NE2	2.01	0.50
1:W:314:LYS:HE3	1:W:316:PHE:HZ	1.76	0.50
1:X:284:PHE:CE1	1:X:618:TRP:HH2	2.29	0.50
1:Z:287:PHE:CD2	1:Z:617:ILE:HG22	2.47	0.50
1:a:602:PRO:HD3	1:v:481:PRO:HG3	1.93	0.50
1:f:405:THR:HG21	1:2:337:THR:HG22	1.93	0.50
1:g:314:LYS:HE3	1:g:316:PHE:HZ	1.76	0.50
1:h:287:PHE:CD2	1:h:617:ILE:HG22	2.47	0.50
1:k:359:GLN:NE2	1:m:464:GLN:HE22	2.09	0.50
1:l:287:PHE:CD2	1:l:617:ILE:HG22	2.47	0.50
1:l:314:LYS:HE3	1:l:316:PHE:HZ	1.76	0.50
1:l:405:THR:HG21	1:m:337:THR:HG22	1.93	0.50
1:n:303:ASN:N	1:n:303:ASN:OD1	2.44	0.50
1:o:284:PHE:CE1	1:o:618:TRP:HH2	2.29	0.50
1:p:287:PHE:CD2	1:p:617:ILE:HG22	2.47	0.50
1:r:303:ASN:N	1:r:303:ASN:OD1	2.44	0.50
1:r:387:VAL:HG12	1:r:388:GLY:N	2.21	0.50
1:s:434:MET:SD	1:s:473:GLN:HG2	2.52	0.50
1:u:303:ASN:HD21	1:u:686:LEU:HD22	1.75	0.50
1:u:434:MET:SD	1:u:473:GLN:HG2	2.52	0.50
1:v:434:MET:SD	1:v:473:GLN:HG2	2.52	0.50
1:w:345:ASP:O	1:w:346:SER:CB	2.54	0.50
1:y:303:ASN:N	1:y:303:ASN:OD1	2.44	0.50
1:y:434:MET:SD	1:y:473:GLN:HG2	2.52	0.50
1:z:481:PRO:HG3	1:7:602:PRO:HD3	1.93	0.50
1:1:434:MET:SD	1:1:473:GLN:HG2	2.52	0.50
1:4:287:PHE:CD2	1:4:617:ILE:HG22	2.47	0.50
1:4:345:ASP:O	1:4:346:SER:CB	2.54	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:5:300:ILE:HG21	1:5:730:TYR:HD2	1.76	0.50
1:7:440:GLN:O	1:7:464:GLN:NE2	2.28	0.50
1:8:345:ASP:O	1:8:346:SER:CB	2.54	0.50
1:A:464:GLN:HE22	1:e:359:GLN:NE2	2.10	0.49
1:C:303:ASN:N	1:C:303:ASN:OD1	2.44	0.49
1:D:432:ARG:NH2	1:q:269:ASP:O	2.45	0.49
1:G:487:ARG:HB3	1:G:573:THR:HG21	1.94	0.49
1:G:654:PRO:HG3	1:J:248:ALA:HB2	1.92	0.49
1:H:314:LYS:HE3	1:H:316:PHE:HZ	1.76	0.49
1:I:303:ASN:HD21	1:I:686:LEU:HD22	1.75	0.49
1:I:434:MET:SD	1:I:473:GLN:HG2	2.52	0.49
1:N:310:ARG:NE	1:N:683:GLU:OE1	2.41	0.49
1:N:387:VAL:HG12	1:N:388:GLY:N	2.21	0.49
1:N:434:MET:SD	1:N:473:GLN:HG2	2.52	0.49
1:O:303:ASN:N	1:O:303:ASN:OD1	2.44	0.49
1:O:314:LYS:HE3	1:O:316:PHE:HZ	1.76	0.49
1:P:284:PHE:CE1	1:P:618:TRP:HH2	2.29	0.49
1:Q:287:PHE:CD2	1:Q:617:ILE:HG22	2.47	0.49
1:S:387:VAL:HG12	1:S:388:GLY:N	2.21	0.49
1:W:434:MET:SD	1:W:473:GLN:HG2	2.52	0.49
1:c:257:TYR:CE1	1:c:277:THR:HG23	2.48	0.49
1:d:434:MET:SD	1:d:473:GLN:HG2	2.52	0.49
1:e:257:TYR:CE1	1:e:277:THR:HG23	2.48	0.49
1:e:303:ASN:OD1	1:e:303:ASN:N	2.44	0.49
1:f:287:PHE:CD2	1:f:617:ILE:HG22	2.47	0.49
1:h:464:GLN:HE22	1:t:359:GLN:NE2	2.09	0.49
1:i:387:VAL:HG12	1:i:388:GLY:N	2.21	0.49
1:i:434:MET:SD	1:i:473:GLN:HG2	2.52	0.49
1:j:284:PHE:CE1	1:j:618:TRP:HH2	2.29	0.49
1:l:416:GLU:CD	1:l:416:GLU:H	2.18	0.49
1:o:302:ASN:HD21	1:r:302:ASN:ND2	2.08	0.49
1:t:257:TYR:CE1	1:t:277:THR:HG23	2.48	0.49
1:v:440:GLN:O	1:v:464:GLN:NE2	2.28	0.49
1:y:440:GLN:O	1:y:464:GLN:NE2	2.28	0.49
1:1:413:TYR:HE2	1:1:643:PRO:HG3	1.76	0.49
1:4:284:PHE:CE1	1:4:618:TRP:HH2	2.29	0.49
1:6:303:ASN:OD1	1:6:303:ASN:N	2.44	0.49
1:6:314:LYS:HE3	1:6:316:PHE:HZ	1.76	0.49
1:6:434:MET:SD	1:6:473:GLN:HG2	2.52	0.49
1:8:287:PHE:CD2	1:8:617:ILE:HG22	2.47	0.49
1:C:287:PHE:CD2	1:C:617:ILE:HG22	2.47	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:287:PHE:CD2	1:D:617:ILE:HG22	2.47	0.49
1:F:284:PHE:CE1	1:F:618:TRP:HH2	2.29	0.49
1:F:553:ASP:OD1	1:F:554:ILE:N	2.43	0.49
1:G:257:TYR:CE1	1:G:277:THR:HG23	2.48	0.49
1:G:287:PHE:CD2	1:G:617:ILE:HG22	2.47	0.49
1:H:300:ILE:HG21	1:H:730:TYR:HD2	1.76	0.49
1:L:487:ARG:HB3	1:L:573:THR:HG21	1.95	0.49
1:M:314:LYS:HE3	1:M:316:PHE:HZ	1.76	0.49
1:N:257:TYR:CE1	1:N:277:THR:HG23	2.47	0.49
1:N:440:GLN:O	1:N:464:GLN:NE2	2.28	0.49
1:O:284:PHE:CE1	1:O:618:TRP:HH2	2.29	0.49
1:O:434:MET:SD	1:O:473:GLN:HG2	2.52	0.49
1:Q:301:ASN:HD22	1:Q:699:GLN:HB3	1.77	0.49
1:R:359:GLN:NE2	1:k:464:GLN:HE22	2.09	0.49
1:S:314:LYS:HE3	1:S:316:PHE:HZ	1.76	0.49
1:U:287:PHE:CD2	1:U:617:ILE:HG22	2.47	0.49
1:W:301:ASN:HD22	1:W:699:GLN:HB3	1.77	0.49
1:W:303:ASN:N	1:W:303:ASN:OD1	2.44	0.49
1:X:434:MET:SD	1:X:473:GLN:HG2	2.52	0.49
1:Y:310:ARG:NE	1:Y:683:GLU:OE1	2.41	0.49
1:Z:481:PRO:HG3	1:t:602:PRO:HD3	1.93	0.49
1:b:287:PHE:CD2	1:b:617:ILE:HG22	2.47	0.49
1:c:434:MET:SD	1:c:473:GLN:HG2	2.52	0.49
1:d:481:PRO:HG3	1:f:602:PRO:HD3	1.93	0.49
1:f:481:PRO:HG3	1:y:602:PRO:HD3	1.93	0.49
1:g:287:PHE:CD2	1:g:617:ILE:HG22	2.47	0.49
1:k:287:PHE:CD2	1:k:617:ILE:HG22	2.47	0.49
1:l:303:ASN:OD1	1:l:303:ASN:N	2.44	0.49
1:r:287:PHE:CD2	1:r:617:ILE:HG22	2.47	0.49
1:t:487:ARG:HB3	1:t:573:THR:HG21	1.94	0.49
1:x:287:PHE:CD2	1:x:617:ILE:HG22	2.47	0.49
1:y:284:PHE:CE1	1:y:618:TRP:HH2	2.29	0.49
1:z:487:ARG:HB3	1:z:573:THR:HG21	1.95	0.49
1:3:303:ASN:OD1	1:3:303:ASN:N	2.44	0.49
1:5:314:LYS:HE3	1:5:316:PHE:HZ	1.76	0.49
1:6:301:ASN:HD22	1:6:699:GLN:HB3	1.77	0.49
1:A:602:PRO:HD3	1:e:481:PRO:HG3	1.93	0.49
1:B:257:TYR:CE1	1:B:277:THR:HG23	2.48	0.49
1:B:487:ARG:HB3	1:B:573:THR:HG21	1.95	0.49
1:B:553:ASP:OD1	1:B:554:ILE:N	2.43	0.49
1:C:314:LYS:HE3	1:C:316:PHE:HZ	1.76	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:350:LEU:HD22	1:E:395:LEU:HD21	1.90	0.49
1:E:434:MET:SD	1:E:473:GLN:HG2	2.52	0.49
1:G:243:SER:HB2	1:G:245:ARG:NH1	2.22	0.49
1:G:602:PRO:HD3	1:8:481:PRO:HG3	1.93	0.49
1:H:337:THR:HG22	1:V:405:THR:HG21	1.93	0.49
1:H:441:TYR:CD1	1:H:441:TYR:O	2.66	0.49
1:K:257:TYR:CE1	1:K:277:THR:HG23	2.47	0.49
1:O:257:TYR:CE1	1:O:277:THR:HG23	2.48	0.49
1:O:405:THR:HG21	1:T:337:THR:HG22	1.93	0.49
1:Q:303:ASN:OD1	1:Q:303:ASN:N	2.44	0.49
1:R:301:ASN:HD22	1:R:699:GLN:HB3	1.77	0.49
1:R:434:MET:SD	1:R:473:GLN:HG2	2.52	0.49
1:T:301:ASN:HD22	1:T:699:GLN:HB3	1.78	0.49
1:T:359:GLN:NE2	1:q:464:GLN:HE22	2.10	0.49
1:U:257:TYR:CE1	1:U:277:THR:HG23	2.48	0.49
1:X:287:PHE:CD2	1:X:617:ILE:HG22	2.47	0.49
1:X:486:GLN:CG	1:l:584:GLN:HE22	2.26	0.49
1:Z:243:SER:HB2	1:Z:245:ARG:NH1	2.22	0.49
1:Z:257:TYR:CE1	1:Z:277:THR:HG23	2.47	0.49
1:a:434:MET:SD	1:a:473:GLN:HG2	2.52	0.49
1:b:464:GLN:HE22	1:n:359:GLN:NE2	2.09	0.49
1:c:441:TYR:O	1:c:441:TYR:CD1	2.66	0.49
1:d:303:ASN:OD1	1:d:303:ASN:N	2.44	0.49
1:d:310:ARG:NE	1:d:683:GLU:OE1	2.41	0.49
1:e:287:PHE:CD2	1:e:617:ILE:HG22	2.47	0.49
1:e:441:TYR:CD1	1:e:441:TYR:O	2.66	0.49
1:f:359:GLN:NE2	1:y:464:GLN:HE22	2.09	0.49
1:g:434:MET:SD	1:g:473:GLN:HG2	2.52	0.49
1:g:441:TYR:CD1	1:g:441:TYR:O	2.66	0.49
1:h:314:LYS:HE3	1:h:316:PHE:HZ	1.76	0.49
1:h:487:ARG:HB3	1:h:573:THR:HG21	1.95	0.49
1:i:257:TYR:CE1	1:i:277:THR:HG23	2.48	0.49
1:j:303:ASN:N	1:j:303:ASN:OD1	2.44	0.49
1:l:257:TYR:CE1	1:l:277:THR:HG23	2.48	0.49
1:l:284:PHE:CE1	1:l:618:TRP:HH2	2.29	0.49
1:m:301:ASN:HD22	1:m:699:GLN:HB3	1.78	0.49
1:o:287:PHE:CD2	1:o:617:ILE:HG22	2.47	0.49
1:p:405:THR:HG21	1:5:337:THR:HG22	1.93	0.49
1:q:301:ASN:HD22	1:q:699:GLN:HB3	1.77	0.49
1:s:257:TYR:CE1	1:s:277:THR:HG23	2.48	0.49
1:u:257:TYR:CE1	1:u:277:THR:HG23	2.48	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:w:284:PHE:CE1	1:w:618:TRP:HH2	2.29	0.49
1:w:350:LEU:HD22	1:w:395:LEU:HD21	1.90	0.49
1:x:301:ASN:HD22	1:x:699:GLN:HB3	1.77	0.49
1:1:257:TYR:CE1	1:1:277:THR:HG23	2.48	0.49
1:1:487:ARG:HB3	1:1:573:THR:HG21	1.95	0.49
1:5:441:TYR:CD1	1:5:441:TYR:O	2.66	0.49
1:8:257:TYR:CE1	1:8:277:THR:HG23	2.48	0.49
1:A:314:LYS:HE3	1:A:316:PHE:HZ	1.76	0.49
1:C:301:ASN:HD22	1:C:699:GLN:HB3	1.77	0.49
1:C:434:MET:SD	1:C:473:GLN:HG2	2.52	0.49
1:C:441:TYR:CD1	1:C:441:TYR:O	2.66	0.49
1:D:395:LEU:HD13	1:D:647:LEU:CD2	2.43	0.49
1:F:464:GLN:HE22	1:b:359:GLN:NE2	2.09	0.49
1:F:487:ARG:HB3	1:F:573:THR:HG21	1.95	0.49
1:F:602:PRO:HD3	1:b:481:PRO:HG3	1.93	0.49
1:L:434:MET:SD	1:L:473:GLN:HG2	2.52	0.49
1:L:441:TYR:CD1	1:L:441:TYR:O	2.66	0.49
1:M:487:ARG:HB3	1:M:573:THR:HG21	1.95	0.49
1:N:584:GLN:HE22	1:U:486:GLN:CG	2.26	0.49
1:O:301:ASN:HD22	1:O:699:GLN:HB3	1.78	0.49
1:O:416:GLU:CD	1:O:416:GLU:H	2.18	0.49
1:O:584:GLN:HE22	1:o:486:GLN:CG	2.26	0.49
1:P:303:ASN:OD1	1:P:303:ASN:N	2.44	0.49
1:R:441:TYR:CD1	1:R:441:TYR:O	2.66	0.49
1:U:487:ARG:HB3	1:U:573:THR:HG21	1.95	0.49
1:V:349:GLN:HE21	1:V:349:GLN:CA	2.04	0.49
1:W:441:TYR:O	1:W:441:TYR:CD1	2.66	0.49
1:Z:314:LYS:HE3	1:Z:316:PHE:HZ	1.76	0.49
1:a:303:ASN:OD1	1:a:303:ASN:N	2.44	0.49
1:a:395:LEU:HD13	1:a:647:LEU:CD2	2.43	0.49
1:b:301:ASN:HD22	1:b:699:GLN:HB3	1.77	0.49
1:c:287:PHE:CD2	1:c:617:ILE:HG22	2.47	0.49
1:c:303:ASN:OD1	1:c:303:ASN:N	2.44	0.49
1:d:350:LEU:HD13	1:d:395:LEU:HD22	1.95	0.49
1:d:359:GLN:NE2	1:f:464:GLN:HE22	2.09	0.49
1:f:301:ASN:HD22	1:f:699:GLN:HB3	1.77	0.49
1:g:301:ASN:HD22	1:g:699:GLN:HB3	1.77	0.49
1:i:395:LEU:HD13	1:i:647:LEU:CD2	2.43	0.49
1:i:584:GLN:HE22	1:s:486:GLN:CG	2.26	0.49
1:j:371:MET:O	1:j:372:VAL:C	2.56	0.49
1:k:395:LEU:HD13	1:k:647:LEU:CD2	2.43	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:l:301:ASN:HD22	1:l:699:GLN:HB3	1.78	0.49
1:l:434:MET:SD	1:l:473:GLN:HG2	2.52	0.49
1:m:487:ARG:HB3	1:m:573:THR:HG21	1.95	0.49
1:o:434:MET:SD	1:o:473:GLN:HG2	2.52	0.49
1:q:434:MET:SD	1:q:473:GLN:HG2	2.52	0.49
1:q:441:TYR:CD1	1:q:441:TYR:O	2.66	0.49
1:r:314:LYS:HE3	1:r:316:PHE:HZ	1.76	0.49
1:s:287:PHE:CD2	1:s:617:ILE:HG22	2.47	0.49
1:t:287:PHE:CD2	1:t:617:ILE:HG22	2.47	0.49
1:w:434:MET:SD	1:w:473:GLN:HG2	2.52	0.49
1:x:434:MET:SD	1:x:473:GLN:HG2	2.52	0.49
1:y:553:ASP:OD1	1:y:554:ILE:N	2.43	0.49
1:z:434:MET:SD	1:z:473:GLN:HG2	2.52	0.49
1:z:441:TYR:O	1:z:441:TYR:CD1	2.66	0.49
1:2:349:GLN:HE21	1:2:349:GLN:CA	2.04	0.49
1:3:395:LEU:HD13	1:3:647:LEU:CD2	2.43	0.49
1:3:434:MET:SD	1:3:473:GLN:HG2	2.52	0.49
1:4:257:TYR:CE1	1:4:277:THR:HG23	2.48	0.49
1:6:257:TYR:CE1	1:6:277:THR:HG23	2.48	0.49
1:8:284:PHE:CE1	1:8:618:TRP:HH2	2.29	0.49
1:D:405:THR:HG21	1:F:337:THR:HG22	1.94	0.49
1:E:301:ASN:HD22	1:E:699:GLN:HB3	1.77	0.49
1:I:257:TYR:CE1	1:I:277:THR:HG23	2.48	0.49
1:K:553:ASP:OD1	1:K:554:ILE:N	2.43	0.49
1:M:395:LEU:HD13	1:M:647:LEU:CD2	2.43	0.49
1:N:395:LEU:HD13	1:N:647:LEU:CD2	2.43	0.49
1:Q:434:MET:SD	1:Q:473:GLN:HG2	2.52	0.49
1:Q:584:GLN:HE22	1:Y:486:GLN:CG	2.26	0.49
1:R:287:PHE:CD2	1:R:617:ILE:HG22	2.47	0.49
1:R:395:LEU:HD13	1:R:647:LEU:CD2	2.43	0.49
1:S:257:TYR:CE1	1:S:277:THR:HG23	2.47	0.49
1:T:345:ASP:O	1:T:346:SER:CB	2.54	0.49
1:T:487:ARG:HB3	1:T:573:THR:HG21	1.95	0.49
1:U:395:LEU:HD13	1:U:647:LEU:CD2	2.43	0.49
1:W:243:SER:HB2	1:W:245:ARG:NH1	2.21	0.49
1:W:257:TYR:CE1	1:W:277:THR:HG23	2.48	0.49
1:X:395:LEU:HD13	1:X:647:LEU:CD2	2.43	0.49
1:X:440:GLN:O	1:X:464:GLN:NE2	2.28	0.49
1:X:441:TYR:CD1	1:X:441:TYR:O	2.66	0.49
1:Y:257:TYR:CE1	1:Y:277:THR:HG23	2.48	0.49
1:a:441:TYR:CD1	1:a:441:TYR:O	2.66	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:b:395:LEU:HD13	1:b:647:LEU:CD2	2.43	0.49
1:c:487:ARG:HB3	1:c:573:THR:HG21	1.95	0.49
1:d:243:SER:HB2	1:d:245:ARG:NH1	2.21	0.49
1:e:434:MET:SD	1:e:473:GLN:HG2	2.52	0.49
1:f:395:LEU:HD13	1:f:647:LEU:CD2	2.43	0.49
1:h:395:LEU:HD13	1:h:647:LEU:CD2	2.43	0.49
1:j:287:PHE:CD2	1:j:617:ILE:HG22	2.47	0.49
1:j:429:SER:OG	1:j:431:ASP:OD1	2.23	0.49
1:n:350:LEU:HD13	1:n:395:LEU:HD22	1.95	0.49
1:o:395:LEU:HD13	1:o:647:LEU:CD2	2.43	0.49
1:o:441:TYR:CD1	1:o:441:TYR:O	2.66	0.49
1:q:395:LEU:HD13	1:q:647:LEU:CD2	2.43	0.49
1:s:337:THR:HG22	1:y:405:THR:HG21	1.93	0.49
1:s:395:LEU:HD13	1:s:647:LEU:CD2	2.43	0.49
1:s:487:ARG:HB3	1:s:573:THR:HG21	1.95	0.49
1:u:441:TYR:CD1	1:u:441:TYR:O	2.66	0.49
1:w:301:ASN:HD22	1:w:699:GLN:HB3	1.78	0.49
1:x:303:ASN:OD1	1:x:303:ASN:N	2.44	0.49
1:2:350:LEU:HD13	1:2:395:LEU:HD22	1.95	0.49
1:3:441:TYR:CD1	1:3:441:TYR:O	2.66	0.49
1:7:257:TYR:CE1	1:7:277:THR:HG23	2.48	0.49
1:8:243:SER:HB2	1:8:245:ARG:NH1	2.22	0.49
1:8:314:LYS:HE3	1:8:316:PHE:HZ	1.76	0.49
1:D:464:GLN:HE22	1:q:359:GLN:NE2	2.10	0.49
1:F:440:GLN:O	1:F:464:GLN:NE2	2.28	0.49
1:H:257:TYR:CE1	1:H:277:THR:HG23	2.48	0.49
1:I:441:TYR:CD1	1:I:441:TYR:O	2.66	0.49
1:J:257:TYR:CE1	1:J:277:THR:HG23	2.48	0.49
1:J:434:MET:SD	1:J:473:GLN:HG2	2.52	0.49
1:K:262:SER:OG	1:K:271:HIS:HA	2.13	0.49
1:K:441:TYR:CD1	1:K:441:TYR:O	2.66	0.49
1:L:301:ASN:HD22	1:L:699:GLN:HB3	1.77	0.49
1:M:303:ASN:OD1	1:M:303:ASN:N	2.44	0.49
1:P:371:MET:O	1:P:372:VAL:C	2.56	0.49
1:Q:257:TYR:CE1	1:Q:277:THR:HG23	2.48	0.49
1:Q:441:TYR:CD1	1:Q:441:TYR:O	2.66	0.49
1:R:262:SER:OG	1:R:271:HIS:HA	2.13	0.49
1:S:302:ASN:ND2	1:X:302:ASN:HD21	2.09	0.49
1:T:287:PHE:CD2	1:T:617:ILE:HG22	2.47	0.49
1:V:257:TYR:CE1	1:V:277:THR:HG23	2.47	0.49
1:Y:262:SER:OG	1:Y:271:HIS:HA	2.13	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Z:284:PHE:CE1	1:Z:618:TRP:HH2	2.29	0.49
1:Z:371:MET:O	1:Z:372:VAL:C	2.56	0.49
1:b:602:PRO:HD3	1:n:481:PRO:HG3	1.93	0.49
1:d:262:SER:OG	1:d:271:HIS:HA	2.13	0.49
1:d:371:MET:O	1:d:372:VAL:C	2.56	0.49
1:e:487:ARG:HB3	1:e:573:THR:HG21	1.95	0.49
1:f:441:TYR:CD1	1:f:441:TYR:O	2.66	0.49
1:g:395:LEU:HD13	1:g:647:LEU:CD2	2.43	0.49
1:i:440:GLN:O	1:i:464:GLN:NE2	2.28	0.49
1:j:487:ARG:HB3	1:j:573:THR:HG21	1.95	0.49
1:l:395:LEU:HD13	1:l:647:LEU:CD2	2.43	0.49
1:m:345:ASP:O	1:m:346:SER:CB	2.54	0.49
1:n:371:MET:O	1:n:372:VAL:C	2.56	0.49
1:o:257:TYR:CE1	1:o:277:THR:HG23	2.48	0.49
1:q:262:SER:OG	1:q:271:HIS:HA	2.13	0.49
1:q:287:PHE:CD2	1:q:617:ILE:HG22	2.47	0.49
1:q:350:LEU:HD13	1:q:395:LEU:HD22	1.95	0.49
1:r:350:LEU:HD13	1:r:395:LEU:HD22	1.95	0.49
1:t:337:THR:HG22	1:2:405:THR:HG21	1.93	0.49
1:v:314:LYS:HE3	1:v:316:PHE:HZ	1.76	0.49
1:x:257:TYR:CE1	1:x:277:THR:HG23	2.48	0.49
1:x:441:TYR:CD1	1:x:441:TYR:O	2.66	0.49
1:x:584:GLN:HE22	1:7:486:GLN:CG	2.26	0.49
1:y:487:ARG:HB3	1:y:573:THR:HG21	1.95	0.49
1:z:301:ASN:HD22	1:z:699:GLN:HB3	1.77	0.49
1:z:371:MET:O	1:z:372:VAL:C	2.56	0.49
1:1:553:ASP:OD1	1:1:554:ILE:N	2.43	0.49
1:1:610:ASP:HB3	1:1:729:ARG:NH2	2.26	0.49
1:2:441:TYR:CD1	1:2:441:TYR:O	2.66	0.49
1:4:262:SER:OG	1:4:271:HIS:HA	2.13	0.49
1:5:262:SER:OG	1:5:271:HIS:HA	2.13	0.49
1:6:441:TYR:CD1	1:6:441:TYR:O	2.66	0.49
1:7:262:SER:OG	1:7:271:HIS:HA	2.13	0.49
1:8:371:MET:O	1:8:372:VAL:C	2.56	0.49
1:8:440:GLN:O	1:8:464:GLN:NE2	2.28	0.49
1:A:371:MET:O	1:A:372:VAL:C	2.56	0.49
1:A:441:TYR:CD1	1:A:441:TYR:O	2.66	0.49
1:B:371:MET:O	1:B:372:VAL:C	2.56	0.49
1:B:441:TYR:CD1	1:B:441:TYR:O	2.66	0.49
1:C:395:LEU:HD13	1:C:647:LEU:CD2	2.43	0.49
1:C:481:PRO:HG3	1:r:602:PRO:HD3	1.94	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:487:ARG:HB3	1:C:573:THR:HG21	1.95	0.49
1:D:300:ILE:HG21	1:D:730:TYR:HD2	1.76	0.49
1:E:395:LEU:HD13	1:E:647:LEU:CD2	2.43	0.49
1:F:405:THR:HG21	1:U:337:THR:HG22	1.93	0.49
1:G:262:SER:OG	1:G:271:HIS:HA	2.13	0.49
1:H:262:SER:OG	1:H:271:HIS:HA	2.13	0.49
1:I:395:LEU:HD13	1:I:647:LEU:CD2	2.43	0.49
1:J:350:LEU:HD13	1:J:395:LEU:HD22	1.95	0.49
1:J:441:TYR:CD1	1:J:441:TYR:O	2.66	0.49
1:L:371:MET:O	1:L:372:VAL:C	2.56	0.49
1:M:371:MET:O	1:M:372:VAL:C	2.56	0.49
1:N:464:GLN:HE22	1:U:359:GLN:NE2	2.09	0.49
1:O:395:LEU:HD13	1:O:647:LEU:CD2	2.43	0.49
1:P:487:ARG:HB3	1:P:573:THR:HG21	1.95	0.49
1:Q:387:VAL:HG12	1:Q:388:GLY:N	2.21	0.49
1:R:350:LEU:HD13	1:R:395:LEU:HD22	1.95	0.49
1:R:553:ASP:OD1	1:R:554:ILE:N	2.43	0.49
1:S:602:PRO:HD3	1:g:481:PRO:HG3	1.94	0.49
1:T:551:ASN:ND2	1:q:463:SER:OG	2.44	0.49
1:X:257:TYR:CE1	1:X:277:THR:HG23	2.48	0.49
1:Y:487:ARG:HB3	1:Y:573:THR:HG21	1.95	0.49
1:a:345:ASP:O	1:a:346:SER:CB	2.54	0.49
1:b:441:TYR:CD1	1:b:441:TYR:O	2.66	0.49
1:d:487:ARG:HB3	1:d:573:THR:HG21	1.95	0.49
1:e:523:MET:CE	1:e:523:MET:CA	2.85	0.49
1:h:371:MET:O	1:h:372:VAL:C	2.56	0.49
1:k:405:THR:HG21	1:y:337:THR:HG22	1.93	0.49
1:n:262:SER:OG	1:n:271:HIS:HA	2.13	0.49
1:n:310:ARG:NE	1:n:683:GLU:OE1	2.41	0.49
1:o:584:GLN:HE22	1:w:486:GLN:CG	2.26	0.49
1:p:257:TYR:CE1	1:p:277:THR:HG23	2.48	0.49
1:r:257:TYR:CE1	1:r:277:THR:HG23	2.48	0.49
1:t:243:SER:HB2	1:t:245:ARG:NH1	2.22	0.49
1:t:262:SER:OG	1:t:271:HIS:HA	2.13	0.49
1:v:371:MET:O	1:v:372:VAL:C	2.56	0.49
1:v:441:TYR:O	1:v:441:TYR:CD1	2.66	0.49
1:w:371:MET:O	1:w:372:VAL:C	2.56	0.49
1:x:387:VAL:HG12	1:x:388:GLY:N	2.21	0.49
1:x:487:ARG:HB3	1:x:573:THR:HG21	1.95	0.49
1:1:371:MET:O	1:1:372:VAL:C	2.56	0.49
1:1:441:TYR:CD1	1:1:441:TYR:O	2.66	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:2:257:TYR:CE1	1:2:277:THR:HG23	2.48	0.49
1:2:434:MET:SD	1:2:473:GLN:HG2	2.52	0.49
1:4:441:TYR:O	1:4:441:TYR:CD1	2.66	0.49
1:4:553:ASP:OD1	1:4:554:ILE:N	2.43	0.49
1:5:257:TYR:CE1	1:5:277:THR:HG23	2.48	0.49
1:5:371:MET:O	1:5:372:VAL:C	2.56	0.49
1:A:584:GLN:HE22	1:e:486:GLN:CG	2.26	0.49
1:E:359:GLN:NE2	1:X:464:GLN:HE22	2.09	0.49
1:E:371:MET:O	1:E:372:VAL:C	2.56	0.49
1:E:486:GLN:CG	1:X:584:GLN:HE22	2.26	0.49
1:E:584:GLN:HE22	1:l:486:GLN:CG	2.26	0.49
1:F:371:MET:O	1:F:372:VAL:C	2.56	0.49
1:F:521:PRO:HD2	1:F:523:MET:HG2	1.95	0.49
1:G:350:LEU:HD13	1:G:395:LEU:HD22	1.95	0.49
1:H:303:ASN:OD1	1:H:303:ASN:N	2.44	0.49
1:H:371:MET:O	1:H:372:VAL:C	2.56	0.49
1:K:301:ASN:HD22	1:K:699:GLN:HB3	1.77	0.49
1:O:486:GLN:CG	1:w:584:GLN:HE22	2.26	0.49
1:P:287:PHE:CD2	1:P:617:ILE:HG22	2.47	0.49
1:Q:262:SER:OG	1:Q:271:HIS:HA	2.13	0.49
1:R:350:LEU:HD22	1:R:395:LEU:HD21	1.90	0.49
1:S:350:LEU:HD13	1:S:395:LEU:HD22	1.95	0.49
1:S:395:LEU:HD13	1:S:647:LEU:CD2	2.43	0.49
1:T:371:MET:O	1:T:372:VAL:C	2.56	0.49
1:T:395:LEU:HD13	1:T:647:LEU:CD2	2.43	0.49
1:U:441:TYR:CD1	1:U:441:TYR:O	2.66	0.49
1:W:345:ASP:O	1:W:346:SER:CB	2.54	0.49
1:Y:434:MET:SD	1:Y:473:GLN:HG2	2.52	0.49
1:Z:434:MET:SD	1:Z:473:GLN:HG2	2.52	0.49
1:c:337:THR:HG22	1:7:405:THR:HG21	1.93	0.49
1:d:441:TYR:CD1	1:d:441:TYR:O	2.66	0.49
1:g:371:MET:O	1:g:372:VAL:C	2.56	0.49
1:g:487:ARG:HB3	1:g:573:THR:HG21	1.95	0.49
1:h:303:ASN:OD1	1:h:303:ASN:N	2.44	0.49
1:m:371:MET:O	1:m:372:VAL:C	2.56	0.49
1:m:395:LEU:HD13	1:m:647:LEU:CD2	2.43	0.49
1:n:487:ARG:HB3	1:n:573:THR:HG21	1.95	0.49
1:q:257:TYR:CE1	1:q:277:THR:HG23	2.48	0.49
1:r:371:MET:O	1:r:372:VAL:C	2.56	0.49
1:r:395:LEU:HD13	1:r:647:LEU:CD2	2.43	0.49
1:r:405:THR:HG21	1:w:337:THR:HG22	1.94	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:r:487:ARG:HB3	1:r:573:THR:HG21	1.95	0.49
1:t:350:LEU:HD13	1:t:395:LEU:HD22	1.95	0.49
1:u:371:MET:O	1:u:372:VAL:C	2.56	0.49
1:v:257:TYR:CE1	1:v:277:THR:HG23	2.48	0.49
1:x:262:SER:OG	1:x:271:HIS:HA	2.13	0.49
1:y:371:MET:O	1:y:372:VAL:C	2.56	0.49
1:y:521:PRO:HD2	1:y:523:MET:HG2	1.95	0.49
1:1:395:LEU:HD13	1:1:647:LEU:CD2	2.43	0.49
1:3:301:ASN:HD22	1:3:699:GLN:HB3	1.77	0.49
1:3:345:ASP:O	1:3:346:SER:CB	2.54	0.49
1:4:301:ASN:HD22	1:4:699:GLN:HB3	1.78	0.49
1:5:434:MET:SD	1:5:473:GLN:HG2	2.52	0.49
1:6:243:SER:HB2	1:6:245:ARG:NH1	2.21	0.49
1:7:395:LEU:HD13	1:7:647:LEU:CD2	2.43	0.49
1:7:434:MET:SD	1:7:473:GLN:HG2	2.52	0.49
1:A:257:TYR:CE1	1:A:277:THR:HG23	2.47	0.49
1:B:395:LEU:HD13	1:B:647:LEU:CD2	2.43	0.49
1:B:610:ASP:HB3	1:B:729:ARG:NH2	2.26	0.49
1:C:371:MET:O	1:C:372:VAL:C	2.56	0.49
1:D:257:TYR:CE1	1:D:277:THR:HG23	2.48	0.49
1:D:301:ASN:HD22	1:D:699:GLN:HB3	1.78	0.49
1:D:356:SER:O	1:T:440:GLN:NE2	2.46	0.49
1:D:371:MET:O	1:D:372:VAL:C	2.56	0.49
1:D:429:SER:OG	1:D:431:ASP:OD1	2.23	0.49
1:E:441:TYR:CD1	1:E:441:TYR:O	2.66	0.49
1:E:521:PRO:HD2	1:E:523:MET:HG2	1.95	0.49
1:F:262:SER:OG	1:F:271:HIS:HA	2.13	0.49
1:F:441:TYR:CD1	1:F:441:TYR:O	2.66	0.49
1:F:486:GLN:CG	1:n:584:GLN:HE22	2.26	0.49
1:G:584:GLN:HE22	1:8:486:GLN:CG	2.26	0.49
1:H:284:PHE:CE1	1:H:618:TRP:HH2	2.29	0.49
1:I:371:MET:O	1:I:372:VAL:C	2.56	0.49
1:I:486:GLN:CG	1:U:584:GLN:HE22	2.26	0.49
1:L:262:SER:OG	1:L:271:HIS:HA	2.13	0.49
1:N:371:MET:O	1:N:372:VAL:C	2.56	0.49
1:Q:487:ARG:HB3	1:Q:573:THR:HG21	1.95	0.49
1:R:257:TYR:CE1	1:R:277:THR:HG23	2.48	0.49
1:R:371:MET:O	1:R:372:VAL:C	2.56	0.49
1:S:262:SER:OG	1:S:271:HIS:HA	2.13	0.49
1:S:371:MET:O	1:S:372:VAL:C	2.56	0.49
1:S:487:ARG:HB3	1:S:573:THR:HG21	1.95	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:T:441:TYR:CD1	1:T:441:TYR:O	2.66	0.49
1:V:262:SER:OG	1:V:271:HIS:HA	2.13	0.49
1:Y:395:LEU:HD13	1:Y:647:LEU:CD2	2.43	0.49
1:Y:405:THR:HG21	1:e:337:THR:HG22	1.93	0.49
1:Z:441:TYR:CD1	1:Z:441:TYR:O	2.66	0.49
1:Z:486:GLN:CG	1:t:584:GLN:HE22	2.26	0.49
1:a:301:ASN:HD22	1:a:699:GLN:HB3	1.78	0.49
1:d:584:GLN:HE22	1:y:486:GLN:CG	2.26	0.49
1:i:350:LEU:HD13	1:i:395:LEU:HD22	1.95	0.49
1:j:262:SER:OG	1:j:271:HIS:HA	2.13	0.49
1:k:300:ILE:HG21	1:k:730:TYR:HD2	1.76	0.49
1:k:371:MET:O	1:k:372:VAL:C	2.56	0.49
1:m:287:PHE:CD2	1:m:617:ILE:HG22	2.47	0.49
1:m:441:TYR:CD1	1:m:441:TYR:O	2.66	0.49
1:n:243:SER:HB2	1:n:245:ARG:NH1	2.22	0.49
1:n:257:TYR:CE1	1:n:277:THR:HG23	2.48	0.49
1:o:337:THR:HG22	1:q:405:THR:HG21	1.95	0.49
1:o:487:ARG:HB3	1:o:573:THR:HG21	1.95	0.49
1:p:349:GLN:HE21	1:p:349:GLN:CA	2.04	0.49
1:q:371:MET:O	1:q:372:VAL:C	2.56	0.49
1:r:262:SER:OG	1:r:271:HIS:HA	2.13	0.49
1:s:441:TYR:CD1	1:s:441:TYR:O	2.66	0.49
1:s:584:GLN:HE22	1:u:486:GLN:CG	2.26	0.49
1:u:395:LEU:HD13	1:u:647:LEU:CD2	2.43	0.49
1:w:395:LEU:HD13	1:w:647:LEU:CD2	2.43	0.49
1:w:521:PRO:HD2	1:w:523:MET:HG2	1.95	0.49
1:y:441:TYR:CD1	1:y:441:TYR:O	2.66	0.49
1:z:262:SER:OG	1:z:271:HIS:HA	2.13	0.49
1:2:284:PHE:CE1	1:2:618:TRP:HH2	2.29	0.49
1:2:521:PRO:HD2	1:2:523:MET:HG2	1.95	0.49
1:5:284:PHE:CE1	1:5:618:TRP:HH2	2.29	0.49
1:7:487:ARG:HB3	1:7:573:THR:HG21	1.95	0.49
1:A:387:VAL:HG12	1:A:388:GLY:N	2.21	0.49
1:B:282:PHE:CD2	1:B:646:ILE:HD11	2.48	0.49
1:B:301:ASN:HD22	1:B:699:GLN:HB3	1.77	0.49
1:C:257:TYR:CE1	1:C:277:THR:HG23	2.48	0.49
1:D:441:TYR:O	1:D:441:TYR:CD1	2.66	0.49
1:F:395:LEU:HD13	1:F:647:LEU:CD2	2.43	0.49
1:H:429:SER:OG	1:H:431:ASP:OD1	2.23	0.49
1:H:434:MET:SD	1:H:473:GLN:HG2	2.52	0.49
1:H:584:GLN:HE22	1:S:486:GLN:CG	2.26	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:521:PRO:HD2	1:J:523:MET:HG2	1.95	0.49
1:K:487:ARG:HB3	1:K:573:THR:HG21	1.95	0.49
1:M:262:SER:OG	1:M:271:HIS:HA	2.13	0.49
1:N:350:LEU:HD13	1:N:395:LEU:HD22	1.95	0.49
1:O:262:SER:OG	1:O:271:HIS:HA	2.13	0.49
1:P:257:TYR:CE1	1:P:277:THR:HG23	2.48	0.49
1:P:262:SER:OG	1:P:271:HIS:HA	2.13	0.49
1:S:441:TYR:O	1:S:441:TYR:CD1	2.66	0.49
1:U:429:SER:OG	1:U:431:ASP:OD1	2.23	0.49
1:W:282:PHE:CD2	1:W:646:ILE:HD11	2.48	0.49
1:X:262:SER:OG	1:X:271:HIS:HA	2.13	0.49
1:b:371:MET:O	1:b:372:VAL:C	2.56	0.49
1:c:262:SER:OG	1:c:271:HIS:HA	2.13	0.49
1:c:523:MET:CE	1:c:523:MET:CA	2.85	0.49
1:d:257:TYR:CE1	1:d:277:THR:HG23	2.48	0.49
1:d:395:LEU:HD13	1:d:647:LEU:CD2	2.43	0.49
1:e:262:SER:OG	1:e:271:HIS:HA	2.13	0.49
1:f:371:MET:O	1:f:372:VAL:C	2.56	0.49
1:g:257:TYR:CE1	1:g:277:THR:HG23	2.48	0.49
1:h:257:TYR:CE1	1:h:277:THR:HG23	2.48	0.49
1:i:371:MET:O	1:i:372:VAL:C	2.56	0.49
1:i:464:GLN:HE22	1:s:359:GLN:NE2	2.09	0.49
1:k:257:TYR:CE1	1:k:277:THR:HG23	2.48	0.49
1:k:262:SER:OG	1:k:271:HIS:HA	2.13	0.49
1:k:301:ASN:HD22	1:k:699:GLN:HB3	1.77	0.49
1:k:356:SER:O	1:m:440:GLN:NE2	2.46	0.49
1:k:429:SER:OG	1:k:431:ASP:OD1	2.23	0.49
1:k:441:TYR:CD1	1:k:441:TYR:O	2.66	0.49
1:l:262:SER:OG	1:l:271:HIS:HA	2.13	0.49
1:l:282:PHE:CD2	1:l:646:ILE:HD11	2.48	0.49
1:l:350:LEU:HD13	1:l:395:LEU:HD22	1.95	0.49
1:n:334:ASN:ND2	1:q:337:THR:OG1	2.46	0.49
1:o:371:MET:O	1:o:372:VAL:C	2.56	0.49
1:o:440:GLN:O	1:o:464:GLN:NE2	2.28	0.49
1:o:464:GLN:HE22	1:w:359:GLN:NE2	2.10	0.49
1:p:262:SER:OG	1:p:271:HIS:HA	2.13	0.49
1:q:553:ASP:OD1	1:q:554:ILE:N	2.43	0.49
1:r:269:ASP:O	1:5:432:ARG:NH2	2.46	0.49
1:r:486:GLN:CG	1:5:584:GLN:HE22	2.26	0.49
1:s:301:ASN:HD22	1:s:699:GLN:HB3	1.77	0.49
1:s:429:SER:OG	1:s:431:ASP:OD1	2.24	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:v:387:VAL:HG12	1:v:388:GLY:N	2.21	0.49
1:v:487:ARG:HB3	1:v:573:THR:HG21	1.95	0.49
1:y:262:SER:OG	1:y:271:HIS:HA	2.13	0.49
1:y:395:LEU:HD13	1:y:647:LEU:CD2	2.43	0.49
1:3:262:SER:OG	1:3:271:HIS:HA	2.13	0.49
1:4:487:ARG:HB3	1:4:573:THR:HG21	1.95	0.49
1:6:345:ASP:O	1:6:346:SER:CB	2.54	0.49
1:8:434:MET:SD	1:8:473:GLN:HG2	2.52	0.49
1:8:441:TYR:O	1:8:441:TYR:CD1	2.66	0.49
1:A:395:LEU:HD13	1:A:647:LEU:CD2	2.43	0.48
1:A:487:ARG:HB3	1:A:573:THR:HG21	1.95	0.48
1:C:584:GLN:HE22	1:5:486:GLN:CG	2.26	0.48
1:D:262:SER:OG	1:D:271:HIS:HA	2.13	0.48
1:E:337:THR:HG22	1:S:405:THR:HG21	1.95	0.48
1:G:441:TYR:CD1	1:G:441:TYR:O	2.66	0.48
1:H:440:GLN:NE2	1:S:356:SER:O	2.46	0.48
1:H:486:GLN:CG	1:g:584:GLN:HE22	2.26	0.48
1:I:350:LEU:HD13	1:I:395:LEU:HD22	1.95	0.48
1:I:584:GLN:HE22	1:N:486:GLN:CG	2.26	0.48
1:K:429:SER:OG	1:K:431:ASP:OD1	2.24	0.48
1:L:395:LEU:HD13	1:L:647:LEU:CD2	2.43	0.48
1:M:553:ASP:OD1	1:M:554:ILE:N	2.43	0.48
1:N:441:TYR:CD1	1:N:441:TYR:O	2.66	0.48
1:N:523:MET:CE	1:N:523:MET:CA	2.85	0.48
1:O:282:PHE:CD2	1:O:646:ILE:HD11	2.48	0.48
1:P:441:TYR:CD1	1:P:441:TYR:O	2.66	0.48
1:Q:350:LEU:HD13	1:Q:395:LEU:HD22	1.95	0.48
1:Q:371:MET:O	1:Q:372:VAL:C	2.56	0.48
1:Q:395:LEU:HD13	1:Q:647:LEU:CD2	2.43	0.48
1:T:262:SER:OG	1:T:271:HIS:HA	2.13	0.48
1:U:301:ASN:HD22	1:U:699:GLN:HB3	1.77	0.48
1:U:350:LEU:HD13	1:U:395:LEU:HD22	1.95	0.48
1:W:350:LEU:HD13	1:W:395:LEU:HD22	1.95	0.48
1:X:301:ASN:HD22	1:X:699:GLN:HB3	1.78	0.48
1:X:371:MET:O	1:X:372:VAL:C	2.56	0.48
1:X:487:ARG:HB3	1:X:573:THR:HG21	1.95	0.48
1:a:262:SER:OG	1:a:271:HIS:HA	2.13	0.48
1:a:282:PHE:CD2	1:a:646:ILE:HD11	2.48	0.48
1:d:602:PRO:HD3	1:y:481:PRO:HG3	1.93	0.48
1:e:521:PRO:HD2	1:e:523:MET:HG2	1.95	0.48
1:h:553:ASP:OD1	1:h:554:ILE:N	2.43	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:j:257:TYR:CE1	1:j:277:THR:HG23	2.48	0.48
1:j:441:TYR:O	1:j:441:TYR:CD1	2.66	0.48
1:n:282:PHE:CD2	1:n:646:ILE:HD11	2.48	0.48
1:n:395:LEU:HD13	1:n:647:LEU:CD2	2.43	0.48
1:n:441:TYR:O	1:n:441:TYR:CD1	2.66	0.48
1:o:262:SER:OG	1:o:271:HIS:HA	2.13	0.48
1:p:282:PHE:CD2	1:p:646:ILE:HD11	2.48	0.48
1:q:282:PHE:CD2	1:q:646:ILE:HD11	2.48	0.48
1:q:350:LEU:HD22	1:q:395:LEU:HD21	1.90	0.48
1:r:441:TYR:O	1:r:441:TYR:CD1	2.66	0.48
1:s:262:SER:OG	1:s:271:HIS:HA	2.13	0.48
1:w:262:SER:OG	1:w:271:HIS:HA	2.13	0.48
1:w:441:TYR:CD1	1:w:441:TYR:O	2.66	0.48
1:x:310:ARG:NE	1:x:683:GLU:OE1	2.41	0.48
1:x:350:LEU:HD13	1:x:395:LEU:HD22	1.95	0.48
1:x:371:MET:O	1:x:372:VAL:C	2.56	0.48
1:x:395:LEU:HD13	1:x:647:LEU:CD2	2.43	0.48
1:x:521:PRO:HD2	1:x:523:MET:HG2	1.95	0.48
1:1:262:SER:OG	1:1:271:HIS:HA	2.13	0.48
1:1:282:PHE:CD2	1:1:646:ILE:HD11	2.48	0.48
1:1:301:ASN:HD22	1:1:699:GLN:HB3	1.78	0.48
1:3:282:PHE:CD2	1:3:646:ILE:HD11	2.48	0.48
1:5:303:ASN:OD1	1:5:303:ASN:N	2.44	0.48
1:6:282:PHE:CD2	1:6:646:ILE:HD11	2.48	0.48
1:6:350:LEU:HD13	1:6:395:LEU:HD22	1.95	0.48
1:8:301:ASN:HD22	1:8:699:GLN:HB3	1.78	0.48
1:A:334:ASN:ND2	1:L:337:THR:OG1	2.46	0.48
1:A:486:GLN:CG	1:3:584:GLN:HE22	2.26	0.48
1:B:262:SER:OG	1:B:271:HIS:HA	2.13	0.48
1:C:440:GLN:NE2	1:5:356:SER:O	2.46	0.48
1:E:262:SER:OG	1:E:271:HIS:HA	2.13	0.48
1:F:257:TYR:CE1	1:F:277:THR:HG23	2.48	0.48
1:F:481:PRO:HG3	1:n:602:PRO:HD3	1.93	0.48
1:G:356:SER:O	1:M:440:GLN:NE2	2.47	0.48
1:H:356:SER:O	1:g:440:GLN:NE2	2.46	0.48
1:J:262:SER:OG	1:J:271:HIS:HA	2.13	0.48
1:J:284:PHE:CE1	1:J:618:TRP:HH2	2.29	0.48
1:K:395:LEU:HD13	1:K:647:LEU:CD2	2.43	0.48
1:M:257:TYR:CE1	1:M:277:THR:HG23	2.48	0.48
1:N:287:PHE:CD2	1:N:617:ILE:HG22	2.47	0.48
1:N:334:ASN:ND2	1:b:337:THR:OG1	2.46	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:440:GLN:NE2	1:U:356:SER:O	2.47	0.48
1:N:521:PRO:HD2	1:N:523:MET:HG2	1.95	0.48
1:O:356:SER:O	1:w:440:GLN:NE2	2.46	0.48
1:Q:521:PRO:HD2	1:Q:523:MET:HG2	1.95	0.48
1:R:282:PHE:CD2	1:R:646:ILE:HD11	2.48	0.48
1:R:487:ARG:HB3	1:R:573:THR:HG21	1.95	0.48
1:T:310:ARG:NE	1:T:683:GLU:OE1	2.41	0.48
1:U:262:SER:OG	1:U:271:HIS:HA	2.13	0.48
1:V:282:PHE:CD2	1:V:646:ILE:HD11	2.48	0.48
1:W:434:MET:SD	1:W:473:GLN:CD	2.97	0.48
1:Y:282:PHE:CD2	1:Y:646:ILE:HD11	2.48	0.48
1:Z:301:ASN:HD22	1:Z:699:GLN:HB3	1.78	0.48
1:Z:387:VAL:HG12	1:Z:388:GLY:N	2.21	0.48
1:Z:434:MET:SD	1:Z:473:GLN:CD	2.97	0.48
1:Z:440:GLN:O	1:Z:464:GLN:NE2	2.28	0.48
1:a:310:ARG:NE	1:a:683:GLU:OE1	2.41	0.48
1:c:521:PRO:HD2	1:c:523:MET:HG2	1.95	0.48
1:d:282:PHE:CD2	1:d:646:ILE:HD11	2.48	0.48
1:h:440:GLN:NE2	1:t:356:SER:O	2.46	0.48
1:i:440:GLN:NE2	1:s:356:SER:O	2.47	0.48
1:i:441:TYR:CD1	1:i:441:TYR:O	2.66	0.48
1:i:486:GLN:CG	1:u:584:GLN:HE22	2.26	0.48
1:i:523:MET:CE	1:i:523:MET:CA	2.85	0.48
1:k:334:ASN:ND2	1:y:337:THR:OG1	2.47	0.48
1:k:345:ASP:O	1:k:346:SER:CB	2.54	0.48
1:m:262:SER:OG	1:m:271:HIS:HA	2.13	0.48
1:m:521:PRO:HD2	1:m:523:MET:HG2	1.95	0.48
1:o:301:ASN:HD22	1:o:699:GLN:HB3	1.77	0.48
1:p:350:LEU:HD13	1:p:395:LEU:HD22	1.95	0.48
1:q:487:ARG:HB3	1:q:573:THR:HG21	1.95	0.48
1:r:301:ASN:HD22	1:r:699:GLN:HB3	1.78	0.48
1:s:350:LEU:HD13	1:s:395:LEU:HD22	1.95	0.48
1:t:441:TYR:CD1	1:t:441:TYR:O	2.66	0.48
1:u:350:LEU:HD13	1:u:395:LEU:HD22	1.95	0.48
1:u:521:PRO:HD2	1:u:523:MET:HG2	1.95	0.48
1:v:395:LEU:HD13	1:v:647:LEU:CD2	2.43	0.48
1:v:521:PRO:HD2	1:v:523:MET:HG2	1.95	0.48
1:2:487:ARG:HB3	1:2:573:THR:HG21	1.94	0.48
1:6:395:LEU:HD13	1:6:647:LEU:CD2	2.43	0.48
1:7:282:PHE:CD2	1:7:646:ILE:HD11	2.48	0.48
1:8:521:PRO:HD2	1:8:523:MET:HG2	1.95	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:434:MET:SD	1:A:473:GLN:CD	2.97	0.48
1:B:440:GLN:NE2	1:4:356:SER:O	2.47	0.48
1:C:337:THR:OG1	1:o:334:ASN:ND2	2.47	0.48
1:C:434:MET:SD	1:C:473:GLN:CD	2.97	0.48
1:D:303:ASN:OD1	1:D:303:ASN:N	2.44	0.48
1:D:486:GLN:CG	1:T:584:GLN:HE22	2.25	0.48
1:E:440:GLN:NE2	1:l:356:SER:O	2.47	0.48
1:E:553:ASP:OD1	1:E:554:ILE:N	2.43	0.48
1:G:337:THR:HG22	1:J:405:THR:HG21	1.94	0.48
1:G:395:LEU:HD13	1:G:647:LEU:CD2	2.43	0.48
1:H:282:PHE:CD2	1:H:646:ILE:HD11	2.48	0.48
1:H:553:ASP:OD1	1:H:554:ILE:N	2.43	0.48
1:I:356:SER:O	1:U:440:GLN:NE2	2.47	0.48
1:I:521:PRO:HD2	1:I:523:MET:HG2	1.95	0.48
1:J:356:SER:O	1:P:440:GLN:NE2	2.46	0.48
1:J:434:MET:SD	1:J:473:GLN:CD	2.97	0.48
1:J:487:ARG:HB3	1:J:573:THR:HG21	1.95	0.48
1:K:356:SER:O	1:1:440:GLN:NE2	2.47	0.48
1:L:257:TYR:CE1	1:L:277:THR:HG23	2.48	0.48
1:O:350:LEU:HD13	1:O:395:LEU:HD22	1.95	0.48
1:P:521:PRO:HD2	1:P:523:MET:HG2	1.95	0.48
1:S:301:ASN:HD22	1:S:699:GLN:HB3	1.78	0.48
1:T:434:MET:SD	1:T:473:GLN:CD	2.97	0.48
1:T:521:PRO:HD2	1:T:523:MET:HG2	1.95	0.48
1:V:350:LEU:HD13	1:V:395:LEU:HD22	1.95	0.48
1:V:395:LEU:HD13	1:V:647:LEU:CD2	2.43	0.48
1:V:434:MET:SD	1:V:473:GLN:CD	2.97	0.48
1:V:441:TYR:CD1	1:V:441:TYR:O	2.66	0.48
1:W:262:SER:OG	1:W:271:HIS:HA	2.13	0.48
1:W:395:LEU:HD13	1:W:647:LEU:CD2	2.43	0.48
1:Y:334:ASN:ND2	1:e:337:THR:OG1	2.46	0.48
1:Y:434:MET:SD	1:Y:473:GLN:CD	2.97	0.48
1:Z:440:GLN:NE2	1:h:356:SER:O	2.46	0.48
1:Z:521:PRO:HD2	1:Z:523:MET:HG2	1.95	0.48
1:b:441:TYR:O	1:b:442:LEU:HD12	2.14	0.48
1:c:486:GLN:CG	1:v:584:GLN:HE22	2.26	0.48
1:e:545:GLN:HE22	1:e:719:VAL:HG12	1.79	0.48
1:g:262:SER:OG	1:g:271:HIS:HA	2.13	0.48
1:h:262:SER:OG	1:h:271:HIS:HA	2.13	0.48
1:i:287:PHE:CD2	1:i:617:ILE:HG22	2.47	0.48
1:i:521:PRO:HD2	1:i:523:MET:HG2	1.95	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:j:521:PRO:HD2	1:j:523:MET:HG2	1.95	0.48
1:k:486:GLN:CG	1:m:584:GLN:HE22	2.26	0.48
1:l:487:ARG:HB3	1:l:573:THR:HG21	1.95	0.48
1:l:521:PRO:HD2	1:l:523:MET:HG2	1.95	0.48
1:m:310:ARG:NE	1:m:683:GLU:OE1	2.41	0.48
1:o:303:ASN:OD1	1:o:303:ASN:N	2.44	0.48
1:p:434:MET:SD	1:p:473:GLN:CD	2.97	0.48
1:p:441:TYR:CD1	1:p:441:TYR:O	2.66	0.48
1:r:356:SER:O	1:5:440:GLN:NE2	2.46	0.48
1:s:282:PHE:CD2	1:s:646:ILE:HD11	2.48	0.48
1:t:521:PRO:HD2	1:t:523:MET:HG2	1.95	0.48
1:u:262:SER:OG	1:u:271:HIS:HA	2.13	0.48
1:u:301:ASN:HD22	1:u:699:GLN:HB3	1.77	0.48
1:v:434:MET:SD	1:v:473:GLN:CD	2.97	0.48
1:x:282:PHE:CD2	1:x:646:ILE:HD11	2.48	0.48
1:z:257:TYR:CE1	1:z:277:THR:HG23	2.48	0.48
1:z:395:LEU:HD13	1:z:647:LEU:CD2	2.43	0.48
1:2:262:SER:OG	1:2:271:HIS:HA	2.13	0.48
1:2:434:MET:SD	1:2:473:GLN:CD	2.97	0.48
1:5:429:SER:OG	1:5:431:ASP:OD1	2.23	0.48
1:5:434:MET:SD	1:5:473:GLN:CD	2.97	0.48
1:6:434:MET:SD	1:6:473:GLN:CD	2.97	0.48
1:7:441:TYR:CD1	1:7:441:TYR:O	2.66	0.48
1:8:434:MET:SD	1:8:473:GLN:CD	2.97	0.48
1:A:269:ASP:O	1:3:432:ARG:NH2	2.46	0.48
1:A:521:PRO:HD2	1:A:523:MET:HG2	1.95	0.48
1:C:262:SER:OG	1:C:271:HIS:HA	2.13	0.48
1:G:521:PRO:HD2	1:G:523:MET:HG2	1.95	0.48
1:H:434:MET:SD	1:H:473:GLN:CD	2.97	0.48
1:H:521:PRO:HD2	1:H:523:MET:HG2	1.95	0.48
1:I:262:SER:OG	1:I:271:HIS:HA	2.13	0.48
1:I:301:ASN:HD22	1:I:699:GLN:HB3	1.77	0.48
1:I:434:MET:SD	1:I:473:GLN:CD	2.97	0.48
1:I:440:GLN:NE2	1:N:356:SER:O	2.46	0.48
1:J:395:LEU:HD13	1:J:647:LEU:CD2	2.43	0.48
1:L:434:MET:SD	1:L:473:GLN:CD	2.97	0.48
1:M:356:SER:O	1:8:440:GLN:NE2	2.46	0.48
1:N:282:PHE:CD2	1:N:646:ILE:HD11	2.48	0.48
1:O:441:TYR:O	1:O:441:TYR:CD1	2.66	0.48
1:O:521:PRO:HD2	1:O:523:MET:HG2	1.95	0.48
1:Q:282:PHE:CD2	1:Q:646:ILE:HD11	2.48	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Q:310:ARG:NE	1:Q:683:GLU:OE1	2.41	0.48
1:T:440:GLN:O	1:T:464:GLN:NE2	2.28	0.48
1:T:553:ASP:OD1	1:T:554:ILE:N	2.43	0.48
1:U:282:PHE:CD2	1:U:646:ILE:HD11	2.48	0.48
1:X:334:ASN:ND2	1:g:337:THR:OG1	2.47	0.48
1:Y:441:TYR:CD1	1:Y:441:TYR:O	2.66	0.48
1:Y:521:PRO:HD2	1:Y:523:MET:HG2	1.95	0.48
1:a:257:TYR:CE1	1:a:277:THR:HG23	2.48	0.48
1:a:440:GLN:NE2	1:v:356:SER:O	2.46	0.48
1:b:434:MET:SD	1:b:473:GLN:CD	2.97	0.48
1:c:545:GLN:HE22	1:c:719:VAL:HG12	1.79	0.48
1:f:337:THR:OG1	1:i:334:ASN:ND2	2.47	0.48
1:f:441:TYR:O	1:f:442:LEU:HD12	2.14	0.48
1:h:545:GLN:HE22	1:h:719:VAL:HG12	1.79	0.48
1:i:302:ASN:ND2	1:y:302:ASN:HD21	2.09	0.48
1:i:545:GLN:HE22	1:i:719:VAL:HG12	1.79	0.48
1:j:545:GLN:HE22	1:j:719:VAL:HG12	1.79	0.48
1:l:441:TYR:CD1	1:l:441:TYR:O	2.66	0.48
1:m:434:MET:SD	1:m:473:GLN:CD	2.97	0.48
1:o:243:SER:HB2	1:o:245:ARG:NH1	2.21	0.48
1:s:440:GLN:NE2	1:u:356:SER:O	2.47	0.48
1:t:395:LEU:HD13	1:t:647:LEU:CD2	2.43	0.48
1:y:257:TYR:CE1	1:y:277:THR:HG23	2.48	0.48
1:1:545:GLN:HE22	1:1:719:VAL:HG12	1.79	0.48
1:2:395:LEU:HD13	1:2:647:LEU:CD2	2.43	0.48
1:3:310:ARG:NE	1:3:683:GLU:OE1	2.41	0.48
1:4:395:LEU:HD13	1:4:647:LEU:CD2	2.43	0.48
1:5:282:PHE:CD2	1:5:646:ILE:HD11	2.48	0.48
1:5:521:PRO:HD2	1:5:523:MET:HG2	1.95	0.48
1:6:262:SER:OG	1:6:271:HIS:HA	2.13	0.48
1:6:371:MET:O	1:6:372:VAL:C	2.56	0.48
1:6:545:GLN:HE22	1:6:719:VAL:HG12	1.79	0.48
1:7:434:MET:SD	1:7:473:GLN:CD	2.97	0.48
1:7:521:PRO:HD2	1:7:523:MET:HG2	1.95	0.48
1:A:303:ASN:OD1	1:A:303:ASN:N	2.44	0.48
1:B:345:ASP:O	1:B:346:SER:CB	2.54	0.48
1:B:350:LEU:HD22	1:B:395:LEU:HD21	1.90	0.48
1:B:545:GLN:HE22	1:B:719:VAL:HG12	1.79	0.48
1:D:282:PHE:CD2	1:D:646:ILE:HD11	2.48	0.48
1:D:584:GLN:HE22	1:q:486:GLN:CG	2.27	0.48
1:F:302:ASN:HD21	1:N:302:ASN:ND2	2.09	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	2.21	0.48
1:H:395:LEU:HD13	1:H:647:LEU:CD2	2.43	0.48
1:J:371:MET:O	1:J:372:VAL:C	2.56	0.48
1:L:316:PHE:HB2	1:L:677:GLN:CB	2.44	0.48
1:M:301:ASN:HD22	1:M:699:GLN:HB3	1.77	0.48
1:M:545:GLN:HE22	1:M:719:VAL:HG12	1.79	0.48
1:N:545:GLN:HE22	1:N:719:VAL:HG12	1.79	0.48
1:O:371:MET:O	1:O:372:VAL:C	2.56	0.48
1:T:316:PHE:HB2	1:T:677:GLN:CB	2.44	0.48
1:T:356:SER:O	1:q:440:GLN:NE2	2.47	0.48
1:U:521:PRO:HD2	1:U:523:MET:HG2	1.95	0.48
1:V:301:ASN:HD22	1:V:699:GLN:HB3	1.77	0.48
1:V:345:ASP:O	1:V:346:SER:CB	2.54	0.48
1:W:371:MET:O	1:W:372:VAL:C	2.56	0.48
1:X:243:SER:HB2	1:X:245:ARG:NH1	2.21	0.48
1:X:303:ASN:OD1	1:X:303:ASN:N	2.44	0.48
1:X:545:GLN:HE22	1:X:719:VAL:HG12	1.79	0.48
1:Z:282:PHE:CD2	1:Z:646:ILE:HD11	2.48	0.48
1:a:487:ARG:HB3	1:a:573:THR:HG21	1.95	0.48
1:b:282:PHE:CD2	1:b:646:ILE:HD11	2.48	0.48
1:b:521:PRO:HD2	1:b:523:MET:HG2	1.95	0.48
1:c:337:THR:OG1	1:7:334:ASN:ND2	2.47	0.48
1:d:316:PHE:HB2	1:d:677:GLN:CB	2.44	0.48
1:f:434:MET:SD	1:f:473:GLN:CD	2.97	0.48
1:f:521:PRO:HD2	1:f:523:MET:HG2	1.95	0.48
1:g:434:MET:SD	1:g:473:GLN:CD	2.97	0.48
1:i:282:PHE:CD2	1:i:646:ILE:HD11	2.48	0.48
1:i:356:SER:O	1:u:440:GLN:NE2	2.46	0.48
1:i:441:TYR:O	1:i:442:LEU:HD12	2.14	0.48
1:j:395:LEU:HD13	1:j:647:LEU:CD2	2.43	0.48
1:m:257:TYR:CE1	1:m:277:THR:HG23	2.48	0.48
1:m:316:PHE:HB2	1:m:677:GLN:CB	2.44	0.48
1:m:553:ASP:OD1	1:m:554:ILE:N	2.43	0.48
1:o:432:ARG:NH2	1:w:269:ASP:O	2.47	0.48
1:o:545:GLN:HE22	1:o:719:VAL:HG12	1.79	0.48
1:q:434:MET:SD	1:q:473:GLN:CD	2.97	0.48
1:u:434:MET:SD	1:u:473:GLN:CD	2.97	0.48
1:v:262:SER:OG	1:v:271:HIS:HA	2.13	0.48
1:w:553:ASP:OD1	1:w:554:ILE:N	2.43	0.48
1:z:316:PHE:HB2	1:z:677:GLN:CB	2.44	0.48
1:z:434:MET:SD	1:z:473:GLN:CD	2.97	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:z:553:ASP:OD1	1:z:554:ILE:N	2.43	0.48
1:3:257:TYR:CE1	1:3:277:THR:HG23	2.47	0.48
1:3:487:ARG:HB3	1:3:573:THR:HG21	1.95	0.48
1:4:429:SER:OG	1:4:431:ASP:OD1	2.23	0.48
1:B:434:MET:SD	1:B:473:GLN:CD	2.97	0.48
1:C:269:ASP:O	1:r:432:ARG:NH2	2.46	0.48
1:D:334:ASN:ND2	1:F:337:THR:OG1	2.47	0.48
1:D:350:LEU:HD13	1:D:395:LEU:HD22	1.95	0.48
1:E:269:ASP:O	1:X:432:ARG:NH2	2.47	0.48
1:E:282:PHE:CD2	1:E:646:ILE:HD11	2.48	0.48
1:F:282:PHE:CD2	1:F:646:ILE:HD11	2.48	0.48
1:I:282:PHE:CD2	1:I:646:ILE:HD11	2.48	0.48
1:I:441:TYR:O	1:I:442:LEU:HD12	2.14	0.48
1:J:440:GLN:NE2	1:p:356:SER:O	2.47	0.48
1:J:486:GLN:CG	1:P:584:GLN:HE22	2.26	0.48
1:L:440:GLN:NE2	1:Q:356:SER:O	2.47	0.48
1:L:553:ASP:OD1	1:L:554:ILE:N	2.43	0.48
1:N:441:TYR:O	1:N:442:LEU:HD12	2.14	0.48
1:O:487:ARG:HB3	1:O:573:THR:HG21	1.95	0.48
1:O:553:ASP:OD1	1:O:554:ILE:N	2.43	0.48
1:P:350:LEU:HD13	1:P:395:LEU:HD22	1.95	0.48
1:P:356:SER:O	1:p:440:GLN:NE2	2.46	0.48
1:P:395:LEU:HD13	1:P:647:LEU:CD2	2.43	0.48
1:P:545:GLN:HE22	1:P:719:VAL:HG12	1.79	0.48
1:Q:275:TYR:CE2	1:Q:392:PHE:HB3	2.49	0.48
1:Q:545:GLN:HE22	1:Q:719:VAL:HG12	1.79	0.48
1:R:440:GLN:NE2	1:m:356:SER:O	2.47	0.48
1:S:521:PRO:HD2	1:S:523:MET:HG2	1.95	0.48
1:T:257:TYR:CE1	1:T:277:THR:HG23	2.48	0.48
1:T:282:PHE:CD2	1:T:646:ILE:HD11	2.48	0.48
1:U:434:MET:SD	1:U:473:GLN:CD	2.97	0.48
1:U:553:ASP:OD1	1:U:554:ILE:N	2.43	0.48
1:V:275:TYR:CE2	1:V:392:PHE:HB3	2.49	0.48
1:W:316:PHE:HB2	1:W:677:GLN:CB	2.44	0.48
1:W:545:GLN:HE22	1:W:719:VAL:HG12	1.79	0.48
1:X:434:MET:SD	1:X:473:GLN:CD	2.97	0.48
1:Y:301:ASN:HD22	1:Y:699:GLN:HB3	1.78	0.48
1:Z:262:SER:OG	1:Z:271:HIS:HA	2.13	0.48
1:a:350:LEU:HD13	1:a:395:LEU:HD22	1.95	0.48
1:a:434:MET:SD	1:a:473:GLN:CD	2.97	0.48
1:c:441:TYR:O	1:c:442:LEU:HD12	2.14	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:e:434:MET:SD	1:e:473:GLN:CD	2.97	0.48
1:f:262:SER:OG	1:f:271:HIS:HA	2.13	0.48
1:f:282:PHE:CD2	1:f:646:ILE:HD11	2.48	0.48
1:h:301:ASN:HD22	1:h:699:GLN:HB3	1.77	0.48
1:j:350:LEU:HD13	1:j:395:LEU:HD22	1.95	0.48
1:j:434:MET:SD	1:j:473:GLN:CD	2.97	0.48
1:k:282:PHE:CD2	1:k:646:ILE:HD11	2.48	0.48
1:l:371:MET:O	1:l:372:VAL:C	2.56	0.48
1:n:316:PHE:HB2	1:n:677:GLN:CB	2.44	0.48
1:p:395:LEU:HD13	1:p:647:LEU:CD2	2.43	0.48
1:s:521:PRO:HD2	1:s:523:MET:HG2	1.95	0.48
1:u:282:PHE:CD2	1:u:646:ILE:HD11	2.48	0.48
1:u:441:TYR:O	1:u:442:LEU:HD12	2.14	0.48
1:v:275:TYR:CE2	1:v:392:PHE:HB3	2.49	0.48
1:v:282:PHE:CD2	1:v:646:ILE:HD11	2.48	0.48
1:v:301:ASN:HD22	1:v:699:GLN:HB3	1.77	0.48
1:v:303:ASN:N	1:v:303:ASN:OD1	2.44	0.48
1:v:334:ASN:ND2	1:z:337:THR:OG1	2.47	0.48
1:x:356:SER:O	1:z:440:GLN:NE2	2.47	0.48
1:x:545:GLN:HE22	1:x:719:VAL:HG12	1.79	0.48
1:1:434:MET:SD	1:1:473:GLN:CD	2.97	0.48
1:3:350:LEU:HD13	1:3:395:LEU:HD22	1.95	0.48
1:4:303:ASN:N	1:4:303:ASN:OD1	2.44	0.48
1:5:395:LEU:HD13	1:5:647:LEU:CD2	2.43	0.48
1:5:553:ASP:OD1	1:5:554:ILE:N	2.43	0.48
1:7:243:SER:HB2	1:7:245:ARG:NH1	2.22	0.48
1:7:301:ASN:HD22	1:7:699:GLN:HB3	1.78	0.48
1:8:282:PHE:CD2	1:8:646:ILE:HD11	2.48	0.48
1:8:387:VAL:HG12	1:8:388:GLY:N	2.21	0.48
1:A:243:SER:HB2	1:A:245:ARG:NH1	2.21	0.48
1:A:262:SER:OG	1:A:271:HIS:HA	2.13	0.48
1:A:282:PHE:CD2	1:A:646:ILE:HD11	2.48	0.48
1:A:350:LEU:HD13	1:A:395:LEU:HD22	1.95	0.48
1:A:356:SER:O	1:3:440:GLN:NE2	2.47	0.48
1:E:257:TYR:CE1	1:E:277:THR:HG23	2.48	0.48
1:F:334:ASN:ND2	1:U:337:THR:OG1	2.47	0.48
1:F:434:MET:SD	1:F:473:GLN:CD	2.97	0.48
1:H:441:TYR:O	1:H:442:LEU:HD12	2.14	0.48
1:M:413:TYR:CE2	1:M:643:PRO:HG3	2.49	0.48
1:N:262:SER:OG	1:N:271:HIS:HA	2.13	0.48
1:N:434:MET:SD	1:N:473:GLN:CD	2.97	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:P:434:MET:SD	1:P:473:GLN:CD	2.97	0.48
1:R:337:THR:OG1	1:d:334:ASN:ND2	2.47	0.48
1:R:434:MET:SD	1:R:473:GLN:CD	2.97	0.48
1:R:441:TYR:O	1:R:442:LEU:HD12	2.14	0.48
1:R:584:GLN:HE22	1:m:486:GLN:CG	2.26	0.48
1:U:334:ASN:ND2	1:l:337:THR:OG1	2.47	0.48
1:V:440:GLN:NE2	1:j:356:SER:O	2.46	0.48
1:X:356:SER:O	1:l:440:GLN:NE2	2.46	0.48
1:b:262:SER:OG	1:b:271:HIS:HA	2.13	0.48
1:b:303:ASN:N	1:b:303:ASN:OD1	2.44	0.48
1:b:432:ARG:NH2	1:n:269:ASP:O	2.47	0.48
1:c:434:MET:SD	1:c:473:GLN:CD	2.97	0.48
1:c:553:ASP:OD1	1:c:554:ILE:N	2.43	0.48
1:d:269:ASP:O	1:f:432:ARG:NH2	2.47	0.48
1:f:303:ASN:N	1:f:303:ASN:OD1	2.44	0.48
1:f:350:LEU:HD13	1:f:395:LEU:HD22	1.95	0.48
1:h:350:LEU:HD13	1:h:395:LEU:HD22	1.95	0.48
1:h:413:TYR:CE2	1:h:643:PRO:HG3	2.49	0.48
1:j:440:GLN:NE2	1:2:356:SER:O	2.47	0.48
1:k:350:LEU:HD13	1:k:395:LEU:HD22	1.95	0.48
1:l:553:ASP:OD1	1:l:554:ILE:N	2.43	0.48
1:m:282:PHE:CD2	1:m:646:ILE:HD11	2.48	0.48
1:o:282:PHE:CD2	1:o:646:ILE:HD11	2.48	0.48
1:o:350:LEU:HD13	1:o:395:LEU:HD22	1.95	0.48
1:o:434:MET:SD	1:o:473:GLN:CD	2.97	0.48
1:q:521:PRO:HD2	1:q:523:MET:HG2	1.95	0.48
1:s:434:MET:SD	1:s:473:GLN:CD	2.97	0.48
1:s:553:ASP:OD1	1:s:554:ILE:N	2.43	0.48
1:t:434:MET:SD	1:t:473:GLN:CD	2.97	0.48
1:w:434:MET:SD	1:w:473:GLN:CD	2.97	0.48
1:x:275:TYR:CE2	1:x:392:PHE:HB3	2.49	0.48
1:y:282:PHE:CD2	1:y:646:ILE:HD11	2.48	0.48
1:y:301:ASN:HD22	1:y:699:GLN:HB3	1.77	0.48
1:1:413:TYR:CE2	1:1:643:PRO:HG3	2.49	0.48
1:2:371:MET:O	1:2:372:VAL:C	2.56	0.48
1:5:275:TYR:CE2	1:5:392:PHE:HB3	2.49	0.48
1:5:441:TYR:O	1:5:442:LEU:HD12	2.14	0.48
1:6:316:PHE:HB2	1:6:677:GLN:CB	2.44	0.48
1:8:262:SER:OG	1:8:271:HIS:HA	2.13	0.48
1:8:275:TYR:CE2	1:8:392:PHE:HB3	2.49	0.48
1:A:275:TYR:CE2	1:A:392:PHE:HB3	2.49	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:301:ASN:HD22	1:A:699:GLN:HB3	1.77	0.48
1:A:350:LEU:HD22	1:A:395:LEU:HD21	1.90	0.48
1:A:432:ARG:NH2	1:e:269:ASP:O	2.46	0.48
1:B:334:ASN:ND2	1:M:337:THR:OG1	2.47	0.48
1:B:413:TYR:CE2	1:B:643:PRO:HG3	2.49	0.48
1:C:282:PHE:CD2	1:C:646:ILE:HD11	2.48	0.48
1:C:334:ASN:ND2	1:P:337:THR:OG1	2.47	0.48
1:C:350:LEU:HD13	1:C:395:LEU:HD22	1.95	0.48
1:D:440:GLN:NE2	1:q:356:SER:O	2.46	0.48
1:E:356:SER:O	1:X:440:GLN:NE2	2.46	0.48
1:E:434:MET:SD	1:E:473:GLN:CD	2.97	0.48
1:F:413:TYR:CE2	1:F:643:PRO:HG3	2.49	0.48
1:F:440:GLN:NE2	1:b:356:SER:O	2.47	0.48
1:G:301:ASN:HD22	1:G:699:GLN:HB3	1.77	0.48
1:G:310:ARG:NE	1:G:683:GLU:OE1	2.41	0.48
1:G:434:MET:SD	1:G:473:GLN:CD	2.97	0.48
1:G:440:GLN:NE2	1:8:356:SER:O	2.47	0.48
1:G:441:TYR:O	1:G:442:LEU:HD12	2.14	0.48
1:H:275:TYR:CE2	1:H:392:PHE:HB3	2.49	0.48
1:I:275:TYR:CE2	1:I:392:PHE:HB3	2.49	0.48
1:K:303:ASN:N	1:K:303:ASN:OD1	2.44	0.48
1:L:303:ASN:OD1	1:L:303:ASN:N	2.44	0.48
1:R:334:ASN:ND2	1:X:337:THR:OG1	2.47	0.48
1:U:441:TYR:O	1:U:442:LEU:HD12	2.14	0.48
1:V:269:ASP:O	1:2:432:ARG:NH2	2.46	0.48
1:W:441:TYR:O	1:W:442:LEU:HD12	2.14	0.48
1:X:282:PHE:CD2	1:X:646:ILE:HD11	2.49	0.48
1:X:413:TYR:CE2	1:X:643:PRO:HG3	2.49	0.48
1:Z:275:TYR:CE2	1:Z:392:PHE:HB3	2.49	0.48
1:Z:356:SER:O	1:t:440:GLN:NE2	2.46	0.48
1:Z:550:THR:HG23	1:Z:551:ASN:H	1.79	0.48
1:a:275:TYR:CE2	1:a:392:PHE:HB3	2.49	0.48
1:a:545:GLN:HE22	1:a:719:VAL:HG12	1.79	0.48
1:b:245:ARG:HG2	1:b:363:PRO:HD2	1.96	0.48
1:c:356:SER:O	1:v:440:GLN:NE2	2.47	0.48
1:d:486:GLN:CG	1:f:584:GLN:HE22	2.26	0.48
1:e:301:ASN:HD22	1:e:699:GLN:HB3	1.77	0.48
1:e:395:LEU:HD13	1:e:647:LEU:CD2	2.43	0.48
1:e:441:TYR:O	1:e:442:LEU:HD12	2.14	0.48
1:g:334:ASN:ND2	1:j:337:THR:OG1	2.47	0.48
1:g:350:LEU:HD13	1:g:395:LEU:HD22	1.95	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:h:337:THR:OG1	1:1:334:ASN:ND2	2.47	0.48
1:i:262:SER:OG	1:i:271:HIS:HA	2.13	0.48
1:i:434:MET:SD	1:i:473:GLN:CD	2.97	0.48
1:j:432:ARG:NH2	1:2:269:ASP:O	2.46	0.48
1:j:584:GLN:HE22	1:2:486:GLN:CG	2.26	0.48
1:o:440:GLN:NE2	1:w:356:SER:O	2.47	0.48
1:p:275:TYR:CE2	1:p:392:PHE:HB3	2.49	0.48
1:p:301:ASN:HD22	1:p:699:GLN:HB3	1.78	0.48
1:q:441:TYR:O	1:q:442:LEU:HD12	2.14	0.48
1:s:275:TYR:CE2	1:s:392:PHE:HB3	2.49	0.48
1:s:337:THR:OG1	1:y:334:ASN:ND2	2.47	0.48
1:t:310:ARG:NE	1:t:683:GLU:OE1	2.41	0.48
1:t:441:TYR:O	1:t:442:LEU:HD12	2.14	0.48
1:v:350:LEU:HD13	1:v:395:LEU:HD22	1.95	0.48
1:w:257:TYR:CE1	1:w:277:THR:HG23	2.48	0.48
1:w:275:TYR:CE2	1:w:392:PHE:HB3	2.49	0.48
1:w:282:PHE:CD2	1:w:646:ILE:HD11	2.48	0.48
1:y:434:MET:SD	1:y:473:GLN:CD	2.97	0.48
1:3:434:MET:SD	1:3:473:GLN:CD	2.97	0.48
1:5:387:VAL:HG12	1:5:388:GLY:N	2.21	0.48
1:6:441:TYR:O	1:6:442:LEU:HD12	2.14	0.48
1:6:487:ARG:HB3	1:6:573:THR:HG21	1.94	0.48
1:7:350:LEU:HD13	1:7:395:LEU:HD22	1.95	0.48
1:8:550:THR:HG23	1:8:551:ASN:H	1.79	0.48
1:D:316:PHE:HB2	1:D:677:GLN:CB	2.44	0.48
1:E:275:TYR:CE2	1:E:392:PHE:HB3	2.49	0.48
1:E:487:ARG:HB3	1:E:573:THR:HG21	1.94	0.48
1:F:301:ASN:HD22	1:F:699:GLN:HB3	1.78	0.48
1:F:316:PHE:HB2	1:F:677:GLN:CB	2.44	0.48
1:F:356:SER:O	1:n:440:GLN:NE2	2.46	0.48
1:G:303:ASN:N	1:G:303:ASN:OD1	2.44	0.48
1:H:334:ASN:ND2	1:3:337:THR:OG1	2.47	0.48
1:H:432:ARG:NH2	1:S:269:ASP:O	2.47	0.48
1:H:487:ARG:HB3	1:H:573:THR:HG21	1.95	0.48
1:H:545:GLN:HE22	1:H:719:VAL:HG12	1.79	0.48
1:I:345:ASP:O	1:I:346:SER:CB	2.54	0.48
1:I:550:THR:HG23	1:I:551:ASN:H	1.79	0.48
1:J:303:ASN:OD1	1:J:303:ASN:N	2.44	0.48
1:J:413:TYR:CE2	1:J:643:PRO:HG3	2.49	0.48
1:K:269:ASP:O	1:1:432:ARG:NH2	2.47	0.48
1:K:334:ASN:ND2	1:6:337:THR:OG1	2.47	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:350:LEU:HD13	1:M:395:LEU:HD22	1.95	0.48
1:M:441:TYR:CD1	1:M:441:TYR:O	2.66	0.48
1:M:441:TYR:O	1:M:442:LEU:HD12	2.14	0.48
1:N:487:ARG:HB3	1:N:573:THR:HG21	1.95	0.48
1:O:337:THR:OG1	1:s:334:ASN:ND2	2.47	0.48
1:O:440:GLN:NE2	1:o:356:SER:O	2.47	0.48
1:P:413:TYR:CE2	1:P:643:PRO:HG3	2.49	0.48
1:Q:316:PHE:HB2	1:Q:677:GLN:CB	2.44	0.48
1:R:269:ASP:O	1:k:432:ARG:NH2	2.47	0.48
1:R:275:TYR:CE2	1:R:392:PHE:HB3	2.49	0.48
1:R:521:PRO:HD2	1:R:523:MET:HG2	1.95	0.48
1:S:345:ASP:O	1:S:346:SER:CB	2.54	0.48
1:S:440:GLN:NE2	1:g:356:SER:O	2.47	0.48
1:U:550:THR:HG23	1:U:551:ASN:H	1.79	0.48
1:V:243:SER:HB2	1:V:245:ARG:NH1	2.22	0.48
1:V:316:PHE:HB2	1:V:677:GLN:CB	2.44	0.48
1:V:371:MET:O	1:V:372:VAL:C	2.56	0.48
1:W:487:ARG:HB3	1:W:573:THR:HG21	1.95	0.48
1:X:350:LEU:HD13	1:X:395:LEU:HD22	1.95	0.48
1:Y:243:SER:HB2	1:Y:245:ARG:NH1	2.22	0.48
1:Y:245:ARG:HG2	1:Y:363:PRO:HD2	1.96	0.48
1:Z:395:LEU:HD13	1:Z:647:LEU:CD2	2.43	0.48
1:a:316:PHE:HB2	1:a:677:GLN:CB	2.44	0.48
1:a:337:THR:OG1	1:5:334:ASN:ND2	2.47	0.48
1:a:432:ARG:NH2	1:v:269:ASP:O	2.47	0.48
1:b:350:LEU:HD13	1:b:395:LEU:HD22	1.95	0.48
1:b:545:GLN:HE22	1:b:719:VAL:HG12	1.79	0.48
1:b:584:GLN:HE22	1:n:486:GLN:CG	2.26	0.48
1:c:301:ASN:HD22	1:c:699:GLN:HB3	1.78	0.48
1:c:316:PHE:HB2	1:c:677:GLN:CB	2.44	0.48
1:c:395:LEU:HD13	1:c:647:LEU:CD2	2.43	0.48
1:c:413:TYR:CE2	1:c:643:PRO:HG3	2.49	0.48
1:d:301:ASN:HD22	1:d:699:GLN:HB3	1.78	0.48
1:d:356:SER:O	1:f:440:GLN:NE2	2.47	0.48
1:d:413:TYR:CE2	1:d:643:PRO:HG3	2.49	0.48
1:e:316:PHE:HB2	1:e:677:GLN:CB	2.44	0.48
1:e:413:TYR:CE2	1:e:643:PRO:HG3	2.49	0.48
1:e:553:ASP:OD1	1:e:554:ILE:N	2.43	0.48
1:f:245:ARG:HG2	1:f:363:PRO:HD2	1.96	0.48
1:f:310:ARG:NE	1:f:683:GLU:OE1	2.41	0.48
1:f:356:SER:O	1:y:440:GLN:NE2	2.47	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:f:545:GLN:HE22	1:f:719:VAL:HG12	1.79	0.48
1:g:282:PHE:CD2	1:g:646:ILE:HD11	2.48	0.48
1:h:441:TYR:CD1	1:h:441:TYR:O	2.66	0.48
1:h:441:TYR:O	1:h:442:LEU:HD12	2.14	0.48
1:i:487:ARG:HB3	1:i:573:THR:HG21	1.95	0.48
1:j:413:TYR:CE2	1:j:643:PRO:HG3	2.49	0.48
1:k:275:TYR:CE2	1:k:392:PHE:HB3	2.49	0.48
1:k:316:PHE:HB2	1:k:677:GLN:CB	2.44	0.48
1:n:301:ASN:HD22	1:n:699:GLN:HB3	1.77	0.48
1:n:413:TYR:CE2	1:n:643:PRO:HG3	2.49	0.48
1:o:275:TYR:CE2	1:o:392:PHE:HB3	2.49	0.48
1:o:316:PHE:HB2	1:o:677:GLN:CB	2.44	0.48
1:p:371:MET:O	1:p:372:VAL:C	2.56	0.48
1:q:275:TYR:CE2	1:q:392:PHE:HB3	2.49	0.48
1:r:345:ASP:O	1:r:346:SER:CB	2.54	0.48
1:r:521:PRO:HD2	1:r:523:MET:HG2	1.95	0.48
1:s:441:TYR:O	1:s:442:LEU:HD12	2.14	0.48
1:t:545:GLN:HE22	1:t:719:VAL:HG12	1.79	0.48
1:u:550:THR:HG23	1:u:551:ASN:H	1.79	0.48
1:w:487:ARG:HB3	1:w:573:THR:HG21	1.95	0.48
1:x:316:PHE:HB2	1:x:677:GLN:CB	2.44	0.48
1:y:316:PHE:HB2	1:y:677:GLN:CB	2.44	0.48
1:y:413:TYR:CE2	1:y:643:PRO:HG3	2.49	0.48
1:1:345:ASP:O	1:1:346:SER:CB	2.54	0.48
1:2:245:ARG:HG2	1:2:363:PRO:HD2	1.96	0.48
1:2:282:PHE:CD2	1:2:646:ILE:HD11	2.48	0.48
1:3:275:TYR:CE2	1:3:392:PHE:HB3	2.49	0.48
1:3:316:PHE:HB2	1:3:677:GLN:CB	2.44	0.48
1:3:413:TYR:CE2	1:3:643:PRO:HG3	2.49	0.48
1:5:350:LEU:HD13	1:5:395:LEU:HD22	1.95	0.48
1:5:487:ARG:HB3	1:5:573:THR:HG21	1.95	0.48
1:6:245:ARG:HG2	1:6:363:PRO:HD2	1.96	0.48
1:7:245:ARG:HG2	1:7:363:PRO:HD2	1.96	0.48
1:B:432:ARG:NH2	1:4:269:ASP:O	2.47	0.48
1:D:245:ARG:HG2	1:D:363:PRO:HD2	1.96	0.48
1:D:275:TYR:CE2	1:D:392:PHE:HB3	2.49	0.48
1:D:434:MET:SD	1:D:473:GLN:CD	2.97	0.48
1:D:521:PRO:HD2	1:D:523:MET:HG2	1.95	0.48
1:F:302:ASN:ND2	1:N:302:ASN:HD21	2.09	0.48
1:F:550:THR:HG23	1:F:551:ASN:H	1.79	0.48
1:G:550:THR:HG23	1:G:551:ASN:H	1.79	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:350:LEU:HD13	1:H:395:LEU:HD22	1.95	0.48
1:I:487:ARG:HB3	1:I:573:THR:HG21	1.95	0.48
1:J:245:ARG:HG2	1:J:363:PRO:HD2	1.96	0.48
1:J:282:PHE:CD2	1:J:646:ILE:HD11	2.48	0.48
1:J:523:MET:CE	1:J:523:MET:CA	2.85	0.48
1:K:434:MET:SD	1:K:473:GLN:CD	2.97	0.48
1:L:350:LEU:HD13	1:L:395:LEU:HD22	1.95	0.48
1:L:356:SER:O	1:Y:440:GLN:NE2	2.47	0.48
1:L:413:TYR:CE2	1:L:643:PRO:HG3	2.49	0.48
1:M:334:ASN:ND2	1:p:337:THR:OG1	2.47	0.48
1:O:545:GLN:HE22	1:O:719:VAL:HG12	1.79	0.48
1:P:269:ASP:O	1:p:432:ARG:NH2	2.47	0.48
1:P:334:ASN:ND2	1:n:337:THR:OG1	2.47	0.48
1:T:413:TYR:CE2	1:T:643:PRO:HG3	2.49	0.48
1:U:275:TYR:CE2	1:U:392:PHE:HB3	2.49	0.48
1:U:316:PHE:HB2	1:U:677:GLN:CB	2.44	0.48
1:V:337:THR:OG1	1:h:334:ASN:ND2	2.47	0.48
1:V:487:ARG:HB3	1:V:573:THR:HG21	1.95	0.48
1:W:245:ARG:HG2	1:W:363:PRO:HD2	1.96	0.48
1:W:337:THR:OG1	1:4:334:ASN:ND2	2.47	0.48
1:W:521:PRO:HD2	1:W:523:MET:HG2	1.95	0.48
1:X:275:TYR:CE2	1:X:392:PHE:HB3	2.49	0.48
1:X:316:PHE:HB2	1:X:677:GLN:CB	2.44	0.48
1:Y:316:PHE:HB2	1:Y:677:GLN:CB	2.44	0.48
1:Y:350:LEU:HD13	1:Y:395:LEU:HD22	1.95	0.48
1:Z:487:ARG:HB3	1:Z:573:THR:HG21	1.94	0.48
1:c:282:PHE:CD2	1:c:646:ILE:HD11	2.48	0.48
1:c:350:LEU:HD13	1:c:395:LEU:HD22	1.95	0.48
1:e:350:LEU:HD13	1:e:395:LEU:HD22	1.95	0.48
1:f:257:TYR:CE1	1:f:277:THR:HG23	2.48	0.48
1:j:441:TYR:O	1:j:442:LEU:HD12	2.14	0.48
1:k:245:ARG:HG2	1:k:363:PRO:HD2	1.96	0.48
1:k:434:MET:SD	1:k:473:GLN:CD	2.97	0.48
1:k:487:ARG:HB3	1:k:573:THR:HG21	1.94	0.48
1:l:545:GLN:HE22	1:l:719:VAL:HG12	1.79	0.48
1:m:413:TYR:CE2	1:m:643:PRO:HG3	2.49	0.48
1:o:413:TYR:CE2	1:o:643:PRO:HG3	2.49	0.48
1:p:316:PHE:HB2	1:p:677:GLN:CB	2.44	0.48
1:p:487:ARG:HB3	1:p:573:THR:HG21	1.95	0.48
1:s:316:PHE:HB2	1:s:677:GLN:CB	2.44	0.48
1:s:545:GLN:HE22	1:s:719:VAL:HG12	1.79	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:s:550:THR:HG23	1:s:551:ASN:H	1.79	0.48
1:t:303:ASN:OD1	1:t:303:ASN:N	2.44	0.48
1:u:275:TYR:CE2	1:u:392:PHE:HB3	2.49	0.48
1:v:243:SER:HB2	1:v:245:ARG:NH1	2.22	0.48
1:w:245:ARG:HG2	1:w:363:PRO:HD2	1.96	0.48
1:y:545:GLN:HE22	1:y:719:VAL:HG12	1.79	0.48
1:z:269:ASP:O	1:7:432:ARG:NH2	2.47	0.48
1:z:303:ASN:OD1	1:z:303:ASN:N	2.44	0.48
1:1:350:LEU:HD22	1:1:395:LEU:HD21	1.90	0.48
1:2:413:TYR:CE2	1:2:643:PRO:HG3	2.49	0.48
1:3:441:TYR:O	1:3:442:LEU:HD12	2.14	0.48
1:3:545:GLN:HE22	1:3:719:VAL:HG12	1.79	0.48
1:4:550:THR:HG23	1:4:551:ASN:H	1.79	0.48
1:5:545:GLN:HE22	1:5:719:VAL:HG12	1.79	0.48
1:6:521:PRO:HD2	1:6:523:MET:HG2	1.95	0.48
1:7:316:PHE:HB2	1:7:677:GLN:CB	2.44	0.48
1:A:337:THR:OG1	1:W:334:ASN:ND2	2.46	0.47
1:B:486:GLN:CG	1:6:584:GLN:HE22	2.26	0.47
1:C:486:GLN:CG	1:r:584:GLN:HE22	2.27	0.47
1:D:487:ARG:HB3	1:D:573:THR:HG21	1.95	0.47
1:E:334:ASN:ND2	1:I:337:THR:OG1	2.47	0.47
1:F:545:GLN:HE22	1:F:719:VAL:HG12	1.79	0.47
1:G:334:ASN:ND2	1:Q:337:THR:OG1	2.47	0.47
1:G:545:GLN:HE22	1:G:719:VAL:HG12	1.79	0.47
1:H:301:ASN:HD22	1:H:699:GLN:HB3	1.78	0.47
1:J:243:SER:HB2	1:J:245:ARG:NH1	2.21	0.47
1:J:275:TYR:CE2	1:J:392:PHE:HB3	2.49	0.47
1:K:245:ARG:HG2	1:K:363:PRO:HD2	1.96	0.47
1:K:413:TYR:CE2	1:K:643:PRO:HG3	2.49	0.47
1:K:550:THR:HG23	1:K:551:ASN:H	1.79	0.47
1:L:269:ASP:O	1:Y:432:ARG:NH2	2.47	0.47
1:L:282:PHE:HD2	1:L:313:PHE:HZ	1.62	0.47
1:M:269:ASP:O	1:8:432:ARG:NH2	2.47	0.47
1:M:426:HIS:CE1	1:M:607:GLN:HE21	2.17	0.47
1:N:337:THR:OG1	1:Q:334:ASN:ND2	2.47	0.47
1:O:432:ARG:NH2	1:o:269:ASP:O	2.47	0.47
1:O:560:THR:HB	1:O:612:TYR:CZ	2.49	0.47
1:P:441:TYR:O	1:P:442:LEU:HD12	2.14	0.47
1:R:545:GLN:HE22	1:R:719:VAL:HG12	1.79	0.47
1:S:282:PHE:CD2	1:S:646:ILE:HD11	2.48	0.47
1:T:350:LEU:HD13	1:T:395:LEU:HD22	1.95	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:T:550:THR:HG23	1:T:551:ASN:H	1.79	0.47
1:V:521:PRO:HD2	1:V:523:MET:HG2	1.95	0.47
1:V:584:GLN:HE22	1:j:486:GLN:CG	2.26	0.47
1:W:429:SER:OG	1:W:431:ASP:OD1	2.23	0.47
1:W:550:THR:HG23	1:W:551:ASN:H	1.79	0.47
1:X:245:ARG:HG2	1:X:363:PRO:HD2	1.96	0.47
1:Z:282:PHE:HD2	1:Z:313:PHE:HZ	1.63	0.47
1:Z:316:PHE:HB2	1:Z:677:GLN:CB	2.44	0.47
1:Z:432:ARG:NH2	1:h:269:ASP:O	2.47	0.47
1:a:413:TYR:CE2	1:a:643:PRO:HG3	2.49	0.47
1:a:441:TYR:O	1:a:442:LEU:HD12	2.14	0.47
1:a:553:ASP:OD1	1:a:554:ILE:N	2.43	0.47
1:b:257:TYR:CE1	1:b:277:THR:HG23	2.48	0.47
1:b:440:GLN:NE2	1:n:356:SER:O	2.47	0.47
1:d:337:THR:OG1	1:j:334:ASN:ND2	2.47	0.47
1:d:434:MET:SD	1:d:473:GLN:CD	2.97	0.47
1:d:440:GLN:NE2	1:y:356:SER:O	2.47	0.47
1:e:275:TYR:CE2	1:e:392:PHE:HB3	2.49	0.47
1:e:282:PHE:CD2	1:e:646:ILE:HD11	2.48	0.47
1:i:302:ASN:HD21	1:y:302:ASN:ND2	2.09	0.47
1:i:337:THR:OG1	1:x:334:ASN:ND2	2.47	0.47
1:j:275:TYR:CE2	1:j:392:PHE:HB3	2.49	0.47
1:k:521:PRO:HD2	1:k:523:MET:HG2	1.95	0.47
1:l:560:THR:HB	1:l:612:TYR:CZ	2.49	0.47
1:n:434:MET:SD	1:n:473:GLN:CD	2.97	0.47
1:t:282:PHE:CD2	1:t:646:ILE:HD11	2.49	0.47
1:t:301:ASN:HD22	1:t:699:GLN:HB3	1.78	0.47
1:t:350:LEU:HD22	1:t:395:LEU:HD21	1.90	0.47
1:u:337:THR:OG1	1:w:334:ASN:ND2	2.47	0.47
1:u:487:ARG:HB3	1:u:573:THR:HG21	1.95	0.47
1:x:440:GLN:NE2	1:7:356:SER:O	2.46	0.47
1:y:550:THR:HG23	1:y:551:ASN:H	1.79	0.47
1:z:356:SER:O	1:7:440:GLN:NE2	2.47	0.47
1:z:413:TYR:CE2	1:z:643:PRO:HG3	2.49	0.47
1:2:275:TYR:CE2	1:2:392:PHE:HB3	2.49	0.47
1:2:303:ASN:OD1	1:2:303:ASN:N	2.44	0.47
1:3:553:ASP:OD1	1:3:554:ILE:N	2.43	0.47
1:4:245:ARG:HG2	1:4:363:PRO:HD2	1.96	0.47
1:4:413:TYR:CE2	1:4:643:PRO:HG3	2.49	0.47
1:4:440:GLN:NE2	1:6:356:SER:O	2.46	0.47
1:6:429:SER:OG	1:6:431:ASP:OD1	2.23	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:6:550:THR:HG23	1:6:551:ASN:H	1.79	0.47
1:7:275:TYR:CE2	1:7:392:PHE:HB3	2.49	0.47
1:7:429:SER:OG	1:7:431:ASP:OD1	2.23	0.47
1:8:282:PHE:HD2	1:8:313:PHE:HZ	1.63	0.47
1:8:395:LEU:HD13	1:8:647:LEU:CD2	2.43	0.47
1:A:282:PHE:HD2	1:A:313:PHE:HZ	1.63	0.47
1:A:440:GLN:NE2	1:e:356:SER:O	2.47	0.47
1:C:245:ARG:HG2	1:C:363:PRO:HD2	1.96	0.47
1:E:245:ARG:HG2	1:E:363:PRO:HD2	1.96	0.47
1:E:413:TYR:CE2	1:E:643:PRO:HG3	2.49	0.47
1:E:441:TYR:O	1:E:442:LEU:HD12	2.14	0.47
1:G:282:PHE:CD2	1:G:646:ILE:HD11	2.48	0.47
1:G:371:MET:O	1:G:372:VAL:C	2.56	0.47
1:H:316:PHE:HB2	1:H:677:GLN:CB	2.44	0.47
1:I:269:ASP:O	1:U:432:ARG:NH2	2.47	0.47
1:I:334:ASN:ND2	1:Y:337:THR:OG1	2.47	0.47
1:I:413:TYR:CE2	1:I:643:PRO:HG3	2.49	0.47
1:J:337:THR:OG1	1:b:334:ASN:ND2	2.47	0.47
1:K:440:GLN:NE2	1:W:356:SER:O	2.46	0.47
1:L:245:ARG:HG2	1:L:363:PRO:HD2	1.96	0.47
1:L:282:PHE:CD2	1:L:646:ILE:HD11	2.48	0.47
1:L:345:ASP:O	1:L:346:SER:CB	2.54	0.47
1:L:450:THR:HG21	1:L:459:ARG:CZ	2.45	0.47
1:M:282:PHE:CD2	1:M:646:ILE:HD11	2.48	0.47
1:O:334:ASN:ND2	1:T:337:THR:OG1	2.47	0.47
1:P:282:PHE:CD2	1:P:646:ILE:HD11	2.48	0.47
1:P:301:ASN:HD22	1:P:699:GLN:HB3	1.77	0.47
1:P:316:PHE:HB2	1:P:677:GLN:CB	2.44	0.47
1:P:486:GLN:CG	1:p:584:GLN:HE22	2.26	0.47
1:Q:413:TYR:CE2	1:Q:643:PRO:HG3	2.49	0.47
1:R:356:SER:O	1:k:440:GLN:NE2	2.46	0.47
1:S:337:THR:OG1	1:e:334:ASN:ND2	2.47	0.47
1:V:356:SER:O	1:2:440:GLN:NE2	2.47	0.47
1:V:432:ARG:NH2	1:j:269:ASP:O	2.47	0.47
1:W:584:GLN:HE22	1:1:486:GLN:CG	2.26	0.47
1:Y:275:TYR:CE2	1:Y:392:PHE:HB3	2.49	0.47
1:Y:429:SER:OG	1:Y:431:ASP:OD1	2.23	0.47
1:Z:314:LYS:HE3	1:Z:316:PHE:CZ	2.50	0.47
1:Z:441:TYR:O	1:Z:442:LEU:HD12	2.14	0.47
1:a:269:ASP:O	1:c:432:ARG:NH2	2.47	0.47
1:b:310:ARG:NE	1:b:683:GLU:OE1	2.41	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:b:316:PHE:HB2	1:b:677:GLN:CB	2.44	0.47
1:c:275:TYR:CE2	1:c:392:PHE:HB3	2.49	0.47
1:d:545:GLN:HE22	1:d:719:VAL:HG12	1.79	0.47
1:e:440:GLN:NE2	1:3:356:SER:O	2.46	0.47
1:f:316:PHE:HB2	1:f:677:GLN:CB	2.44	0.47
1:f:550:THR:HG23	1:f:551:ASN:H	1.79	0.47
1:j:282:PHE:CD2	1:j:646:ILE:HD11	2.48	0.47
1:j:314:LYS:HE3	1:j:316:PHE:CZ	2.49	0.47
1:m:550:THR:HG23	1:m:551:ASN:H	1.79	0.47
1:n:521:PRO:HD2	1:n:523:MET:HG2	1.95	0.47
1:o:245:ARG:HG2	1:o:363:PRO:HD2	1.96	0.47
1:p:243:SER:HB2	1:p:245:ARG:NH1	2.21	0.47
1:p:521:PRO:HD2	1:p:523:MET:HG2	1.95	0.47
1:s:432:ARG:NH2	1:u:269:ASP:O	2.47	0.47
1:t:334:ASN:ND2	1:x:337:THR:OG1	2.47	0.47
1:t:550:THR:HG23	1:t:551:ASN:H	1.79	0.47
1:u:413:TYR:CE2	1:u:643:PRO:HG3	2.49	0.47
1:v:350:LEU:HD22	1:v:395:LEU:HD21	1.90	0.47
1:w:413:TYR:CE2	1:w:643:PRO:HG3	2.49	0.47
1:z:245:ARG:HG2	1:z:363:PRO:HD2	1.96	0.47
1:z:282:PHE:HD2	1:z:313:PHE:HZ	1.63	0.47
1:z:350:LEU:HD13	1:z:395:LEU:HD22	1.95	0.47
1:z:450:THR:HG21	1:z:459:ARG:CZ	2.45	0.47
1:3:245:ARG:HG2	1:3:363:PRO:HD2	1.96	0.47
1:4:434:MET:SD	1:4:473:GLN:CD	2.97	0.47
1:5:316:PHE:HB2	1:5:677:GLN:CB	2.44	0.47
1:6:275:TYR:CE2	1:6:392:PHE:HB3	2.49	0.47
1:6:282:PHE:HD2	1:6:313:PHE:HZ	1.63	0.47
1:7:413:TYR:CE2	1:7:643:PRO:HG3	2.49	0.47
1:8:316:PHE:HB2	1:8:677:GLN:CB	2.44	0.47
1:8:441:TYR:O	1:8:442:LEU:HD12	2.14	0.47
1:A:314:LYS:HE3	1:A:316:PHE:CZ	2.50	0.47
1:B:316:PHE:HB2	1:B:677:GLN:CB	2.44	0.47
1:B:356:SER:O	1:6:440:GLN:NE2	2.47	0.47
1:F:314:LYS:HE3	1:F:316:PHE:CZ	2.50	0.47
1:G:275:TYR:CE2	1:G:392:PHE:HB3	2.49	0.47
1:G:345:ASP:O	1:G:346:SER:CB	2.54	0.47
1:G:350:LEU:HD22	1:G:395:LEU:HD21	1.90	0.47
1:G:432:ARG:NH2	1:8:269:ASP:O	2.47	0.47
1:I:545:GLN:HE22	1:I:719:VAL:HG12	1.79	0.47
1:K:275:TYR:CE2	1:K:392:PHE:HB3	2.49	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:282:PHE:CD2	1:K:646:ILE:HD11	2.48	0.47
1:O:429:SER:OG	1:O:431:ASP:OD1	2.23	0.47
1:O:434:MET:SD	1:O:473:GLN:CD	2.97	0.47
1:P:275:TYR:CE2	1:P:392:PHE:HB3	2.49	0.47
1:P:314:LYS:HE3	1:P:316:PHE:CZ	2.50	0.47
1:Q:440:GLN:NE2	1:Y:356:SER:O	2.46	0.47
1:R:302:ASN:ND2	1:l:302:ASN:HD21	2.09	0.47
1:R:314:LYS:HE3	1:R:316:PHE:CZ	2.50	0.47
1:R:450:THR:HG21	1:R:459:ARG:CZ	2.45	0.47
1:R:560:THR:HB	1:R:612:TYR:CZ	2.50	0.47
1:S:245:ARG:HG2	1:S:363:PRO:HD2	1.96	0.47
1:S:434:MET:SD	1:S:473:GLN:CD	2.97	0.47
1:S:560:THR:HB	1:S:612:TYR:CZ	2.50	0.47
1:T:269:ASP:O	1:q:432:ARG:NH2	2.47	0.47
1:U:450:THR:HG21	1:U:459:ARG:CZ	2.45	0.47
1:U:545:GLN:HE22	1:U:719:VAL:HG12	1.79	0.47
1:V:560:THR:HB	1:V:612:TYR:CZ	2.50	0.47
1:W:275:TYR:CE2	1:W:392:PHE:HB3	2.49	0.47
1:W:282:PHE:HD2	1:W:313:PHE:HZ	1.63	0.47
1:Y:413:TYR:CE2	1:Y:643:PRO:HG3	2.49	0.47
1:a:245:ARG:HG2	1:a:363:PRO:HD2	1.96	0.47
1:a:356:SER:O	1:c:440:GLN:NE2	2.47	0.47
1:b:550:THR:HG23	1:b:551:ASN:H	1.79	0.47
1:b:560:THR:HB	1:b:612:TYR:CZ	2.50	0.47
1:d:441:TYR:O	1:d:442:LEU:HD12	2.14	0.47
1:d:521:PRO:HD2	1:d:523:MET:HG2	1.95	0.47
1:e:432:ARG:NH2	1:3:269:ASP:O	2.47	0.47
1:f:334:ASN:ND2	1:2:337:THR:OG1	2.47	0.47
1:f:560:THR:HB	1:f:612:TYR:CZ	2.50	0.47
1:g:245:ARG:HG2	1:g:363:PRO:HD2	1.96	0.47
1:g:316:PHE:HB2	1:g:677:GLN:CB	2.44	0.47
1:j:431:ASP:OD2	1:2:513:ARG:NE	2.47	0.47
1:l:334:ASN:ND2	1:m:337:THR:OG1	2.47	0.47
1:m:275:TYR:CE2	1:m:392:PHE:HB3	2.49	0.47
1:m:440:GLN:O	1:m:464:GLN:NE2	2.28	0.47
1:n:545:GLN:HE22	1:n:719:VAL:HG12	1.79	0.47
1:q:314:LYS:HE3	1:q:316:PHE:CZ	2.50	0.47
1:q:450:THR:HG21	1:q:459:ARG:CZ	2.45	0.47
1:q:545:GLN:HE22	1:q:719:VAL:HG12	1.79	0.47
1:q:560:THR:HB	1:q:612:TYR:CZ	2.50	0.47
1:r:245:ARG:HG2	1:r:363:PRO:HD2	1.96	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:r:282:PHE:CD2	1:r:646:ILE:HD11	2.48	0.47
1:r:413:TYR:CE2	1:r:643:PRO:HG3	2.49	0.47
1:r:560:THR:HB	1:r:612:TYR:CZ	2.50	0.47
1:s:302:ASN:HD21	1:w:302:ASN:ND2	2.09	0.47
1:t:316:PHE:HB2	1:t:677:GLN:CB	2.44	0.47
1:t:337:THR:OG1	1:2:334:ASN:ND2	2.47	0.47
1:u:334:ASN:ND2	1:7:337:THR:OG1	2.47	0.47
1:u:345:ASP:O	1:u:346:SER:CB	2.54	0.47
1:u:560:THR:HB	1:u:612:TYR:CZ	2.50	0.47
1:v:282:PHE:HD2	1:v:313:PHE:HZ	1.63	0.47
1:v:314:LYS:HE3	1:v:316:PHE:CZ	2.50	0.47
1:v:337:THR:OG1	1:6:334:ASN:ND2	2.47	0.47
1:v:413:TYR:CE2	1:v:643:PRO:HG3	2.49	0.47
1:w:441:TYR:O	1:w:442:LEU:HD12	2.14	0.47
1:x:413:TYR:CE2	1:x:643:PRO:HG3	2.49	0.47
1:x:434:MET:SD	1:x:473:GLN:CD	2.97	0.47
1:y:314:LYS:HE3	1:y:316:PHE:CZ	2.50	0.47
1:1:275:TYR:CE2	1:1:392:PHE:HB3	2.49	0.47
1:1:316:PHE:HB2	1:1:677:GLN:CB	2.44	0.47
1:1:350:LEU:HD13	1:1:395:LEU:HD22	1.95	0.47
1:1:521:PRO:HD2	1:1:523:MET:HG2	1.95	0.47
1:2:243:SER:HB2	1:2:245:ARG:NH1	2.21	0.47
1:2:523:MET:CE	1:2:523:MET:CA	2.85	0.47
1:4:371:MET:O	1:4:372:VAL:C	2.56	0.47
1:8:314:LYS:HE3	1:8:316:PHE:CZ	2.50	0.47
1:8:487:ARG:HB3	1:8:573:THR:HG21	1.95	0.47
1:A:413:TYR:CE2	1:A:643:PRO:HG3	2.49	0.47
1:B:275:TYR:CE2	1:B:392:PHE:HB3	2.49	0.47
1:B:521:PRO:HD2	1:B:523:MET:HG2	1.95	0.47
1:C:316:PHE:HB2	1:C:677:GLN:CB	2.44	0.47
1:C:387:VAL:HG12	1:C:388:GLY:N	2.21	0.47
1:C:450:THR:HG21	1:C:459:ARG:CZ	2.45	0.47
1:D:395:LEU:H	1:D:395:LEU:HG	1.48	0.47
1:D:441:TYR:O	1:D:442:LEU:HD12	2.14	0.47
1:F:269:ASP:O	1:n:432:ARG:NH2	2.47	0.47
1:F:429:SER:OG	1:F:431:ASP:OD1	2.23	0.47
1:F:432:ARG:NH2	1:b:269:ASP:O	2.47	0.47
1:G:316:PHE:HB2	1:G:677:GLN:CB	2.44	0.47
1:H:450:THR:HG21	1:H:459:ARG:CZ	2.45	0.47
1:I:450:THR:HG21	1:I:459:ARG:CZ	2.45	0.47
1:I:560:THR:HB	1:I:612:TYR:CZ	2.50	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:301:ASN:HD22	1:J:699:GLN:HB3	1.77	0.47
1:J:310:ARG:NE	1:J:683:GLU:OE1	2.41	0.47
1:J:441:TYR:O	1:J:442:LEU:HD12	2.14	0.47
1:K:371:MET:O	1:K:372:VAL:C	2.56	0.47
1:L:560:THR:HB	1:L:612:TYR:CZ	2.50	0.47
1:N:245:ARG:HG2	1:N:363:PRO:HD2	1.96	0.47
1:R:432:ARG:NH2	1:m:269:ASP:O	2.47	0.47
1:S:584:GLN:HE22	1:g:486:GLN:CG	2.27	0.47
1:T:275:TYR:CE2	1:T:392:PHE:HB3	2.49	0.47
1:W:413:TYR:CE2	1:W:643:PRO:HG3	2.49	0.47
1:W:450:THR:HG21	1:W:459:ARG:CZ	2.45	0.47
1:X:273:PHE:O	1:X:273:PHE:CG	2.68	0.47
1:Z:245:ARG:HG2	1:Z:363:PRO:HD2	1.96	0.47
1:a:584:GLN:HE22	1:v:486:GLN:CG	2.26	0.47
1:b:345:ASP:O	1:b:346:SER:CB	2.54	0.47
1:c:245:ARG:HG2	1:c:363:PRO:HD2	1.96	0.47
1:c:282:PHE:HD2	1:c:313:PHE:HZ	1.63	0.47
1:c:334:ASN:ND2	1:r:337:THR:OG1	2.48	0.47
1:d:245:ARG:HG2	1:d:363:PRO:HD2	1.96	0.47
1:d:275:TYR:CE2	1:d:392:PHE:HB3	2.49	0.47
1:d:432:ARG:NH2	1:y:269:ASP:O	2.47	0.47
1:e:245:ARG:HG2	1:e:363:PRO:HD2	1.96	0.47
1:g:429:SER:OG	1:g:431:ASP:OD1	2.23	0.47
1:g:450:THR:HG21	1:g:459:ARG:CZ	2.45	0.47
1:h:282:PHE:CD2	1:h:646:ILE:HD11	2.49	0.47
1:i:245:ARG:HG2	1:i:363:PRO:HD2	1.96	0.47
1:i:301:ASN:HD22	1:i:699:GLN:HB3	1.78	0.47
1:j:316:PHE:HB2	1:j:677:GLN:CB	2.44	0.47
1:l:413:TYR:CE2	1:l:643:PRO:HG3	2.49	0.47
1:m:350:LEU:HD13	1:m:395:LEU:HD22	1.95	0.47
1:n:275:TYR:CE2	1:n:392:PHE:HB3	2.49	0.47
1:p:560:THR:HB	1:p:612:TYR:CZ	2.50	0.47
1:r:545:GLN:HE22	1:r:719:VAL:HG12	1.79	0.47
1:s:450:THR:HG21	1:s:459:ARG:CZ	2.45	0.47
1:t:275:TYR:CE2	1:t:392:PHE:HB3	2.49	0.47
1:t:371:MET:O	1:t:372:VAL:C	2.56	0.47
1:u:450:THR:HG21	1:u:459:ARG:CZ	2.45	0.47
1:v:550:THR:HG23	1:v:551:ASN:H	1.79	0.47
1:y:282:PHE:HD2	1:y:313:PHE:HZ	1.63	0.47
1:z:282:PHE:CD2	1:z:646:ILE:HD11	2.48	0.47
1:4:275:TYR:CE2	1:4:392:PHE:HB3	2.49	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:4:282:PHE:CD2	1:4:646:ILE:HD11	2.48	0.47
1:5:301:ASN:HD22	1:5:699:GLN:HB3	1.78	0.47
1:5:413:TYR:CE2	1:5:643:PRO:HG3	2.49	0.47
1:5:450:THR:HG21	1:5:459:ARG:CZ	2.45	0.47
1:6:413:TYR:CE2	1:6:643:PRO:HG3	2.49	0.47
1:6:450:THR:HG21	1:6:459:ARG:CZ	2.45	0.47
1:7:550:THR:HG23	1:7:551:ASN:H	1.79	0.47
1:8:245:ARG:HG2	1:8:363:PRO:HD2	1.96	0.47
1:B:441:TYR:O	1:B:442:LEU:HD12	2.14	0.47
1:D:434:MET:HB2	1:q:358:HIS:CE1	2.49	0.47
1:E:350:LEU:HD13	1:E:395:LEU:HD22	1.95	0.47
1:F:282:PHE:HD2	1:F:313:PHE:HZ	1.63	0.47
1:H:337:THR:OG1	1:V:334:ASN:ND2	2.47	0.47
1:H:560:THR:HB	1:H:612:TYR:CZ	2.50	0.47
1:J:316:PHE:HB2	1:J:677:GLN:CB	2.44	0.47
1:K:350:LEU:HD13	1:K:395:LEU:HD22	1.95	0.47
1:K:545:GLN:HE22	1:K:719:VAL:HG12	1.79	0.47
1:L:441:TYR:O	1:L:442:LEU:HD12	2.14	0.47
1:M:282:PHE:HD2	1:M:313:PHE:HZ	1.63	0.47
1:N:273:PHE:O	1:N:273:PHE:CG	2.68	0.47
1:N:301:ASN:HD22	1:N:699:GLN:HB3	1.78	0.47
1:O:413:TYR:CE2	1:O:643:PRO:HG3	2.49	0.47
1:P:350:LEU:HD22	1:P:395:LEU:HD21	1.90	0.47
1:Q:314:LYS:HE3	1:Q:316:PHE:CZ	2.49	0.47
1:Q:434:MET:SD	1:Q:473:GLN:CD	2.97	0.47
1:Q:560:THR:HB	1:Q:612:TYR:CZ	2.50	0.47
1:R:273:PHE:O	1:R:273:PHE:CG	2.68	0.47
1:S:316:PHE:HB2	1:S:677:GLN:CB	2.44	0.47
1:S:413:TYR:CE2	1:S:643:PRO:HG3	2.49	0.47
1:V:450:THR:HG21	1:V:459:ARG:CZ	2.45	0.47
1:V:486:GLN:CG	1:2:584:GLN:HE22	2.26	0.47
1:W:440:GLN:NE2	1:1:356:SER:O	2.47	0.47
1:Y:371:MET:O	1:Y:372:VAL:C	2.56	0.47
1:Y:550:THR:HG23	1:Y:551:ASN:H	1.79	0.47
1:Z:617:ILE:HD11	1:Z:618:TRP:CZ3	2.50	0.47
1:a:371:MET:O	1:a:372:VAL:C	2.56	0.47
1:a:560:THR:HB	1:a:612:TYR:CZ	2.50	0.47
1:b:314:LYS:HE3	1:b:316:PHE:CZ	2.50	0.47
1:b:450:THR:HG21	1:b:459:ARG:CZ	2.45	0.47
1:b:617:ILE:HD11	1:b:618:TRP:CZ3	2.50	0.47
1:c:269:ASP:O	1:v:432:ARG:NH2	2.47	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:c:450:THR:HG21	1:c:459:ARG:CZ	2.45	0.47
1:c:560:THR:HB	1:c:612:TYR:CZ	2.50	0.47
1:e:282:PHE:HD2	1:e:313:PHE:HZ	1.63	0.47
1:e:450:THR:HG21	1:e:459:ARG:CZ	2.45	0.47
1:f:350:LEU:HD22	1:f:395:LEU:HD21	1.90	0.47
1:g:273:PHE:O	1:g:273:PHE:CG	2.68	0.47
1:h:282:PHE:HD2	1:h:313:PHE:HZ	1.63	0.47
1:k:282:PHE:HD2	1:k:313:PHE:HZ	1.62	0.47
1:l:434:MET:SD	1:l:473:GLN:CD	2.97	0.47
1:l:550:THR:HG23	1:l:551:ASN:H	1.79	0.47
1:n:245:ARG:HG2	1:n:363:PRO:HD2	1.96	0.47
1:n:441:TYR:O	1:n:442:LEU:HD12	2.14	0.47
1:o:273:PHE:O	1:o:273:PHE:CG	2.68	0.47
1:q:273:PHE:O	1:q:273:PHE:CG	2.68	0.47
1:r:316:PHE:HB2	1:r:677:GLN:CB	2.44	0.47
1:r:434:MET:SD	1:r:473:GLN:CD	2.97	0.47
1:s:371:MET:O	1:s:372:VAL:C	2.56	0.47
1:t:345:ASP:O	1:t:346:SER:CB	2.54	0.47
1:u:545:GLN:HE22	1:u:719:VAL:HG12	1.79	0.47
1:u:553:ASP:OD1	1:u:554:ILE:N	2.43	0.47
1:x:269:ASP:O	1:z:432:ARG:NH2	2.47	0.47
1:x:314:LYS:HE3	1:x:316:PHE:CZ	2.49	0.47
1:x:560:THR:HB	1:x:612:TYR:CZ	2.50	0.47
1:y:350:LEU:HD13	1:y:395:LEU:HD22	1.95	0.47
1:z:345:ASP:O	1:z:346:SER:CB	2.54	0.47
1:z:560:THR:HB	1:z:612:TYR:CZ	2.50	0.47
1:1:441:TYR:O	1:1:442:LEU:HD12	2.14	0.47
1:2:301:ASN:HD22	1:2:699:GLN:HB3	1.77	0.47
1:2:316:PHE:HB2	1:2:677:GLN:CB	2.44	0.47
1:2:441:TYR:O	1:2:442:LEU:HD12	2.14	0.47
1:4:314:LYS:HE3	1:4:316:PHE:CZ	2.49	0.47
1:4:350:LEU:HD13	1:4:395:LEU:HD22	1.95	0.47
1:7:371:MET:O	1:7:372:VAL:C	2.56	0.47
1:8:350:LEU:HD13	1:8:395:LEU:HD22	1.95	0.47
1:8:617:ILE:HD11	1:8:618:TRP:CZ3	2.50	0.47
1:A:441:TYR:O	1:A:442:LEU:HD12	2.14	0.47
1:A:550:THR:HG23	1:A:551:ASN:H	1.79	0.47
1:B:350:LEU:HD13	1:B:395:LEU:HD22	1.95	0.47
1:B:617:ILE:HD11	1:B:618:TRP:CZ3	2.50	0.47
1:C:273:PHE:O	1:C:273:PHE:CG	2.68	0.47
1:C:356:SER:O	1:r:440:GLN:NE2	2.48	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:513:ARG:NE	1:r:431:ASP:OD2	2.47	0.47
1:D:282:PHE:HD2	1:D:313:PHE:HZ	1.63	0.47
1:D:617:ILE:HD11	1:D:618:TRP:CZ3	2.50	0.47
1:E:302:ASN:ND2	1:U:302:ASN:HD21	2.09	0.47
1:E:314:LYS:HE3	1:E:316:PHE:CZ	2.50	0.47
1:E:550:THR:HG23	1:E:551:ASN:H	1.79	0.47
1:F:350:LEU:HD13	1:F:395:LEU:HD22	1.95	0.47
1:F:387:VAL:HG12	1:F:388:GLY:N	2.21	0.47
1:F:571:VAL:HB	1:F:574:GLU:HB3	1.97	0.47
1:G:314:LYS:HE3	1:G:316:PHE:CZ	2.50	0.47
1:I:553:ASP:OD1	1:I:554:ILE:N	2.43	0.47
1:J:550:THR:HG23	1:J:551:ASN:H	1.79	0.47
1:K:486:GLN:CG	1:1:584:GLN:HE22	2.26	0.47
1:K:560:THR:HB	1:K:612:TYR:CZ	2.50	0.47
1:L:521:PRO:HD2	1:L:523:MET:HG2	1.95	0.47
1:N:314:LYS:HE3	1:N:316:PHE:CZ	2.50	0.47
1:O:441:TYR:O	1:O:442:LEU:HD12	2.14	0.47
1:O:550:THR:HG23	1:O:551:ASN:H	1.79	0.47
1:S:314:LYS:HE3	1:S:316:PHE:CZ	2.50	0.47
1:S:432:ARG:NH2	1:g:269:ASP:O	2.47	0.47
1:S:545:GLN:HE22	1:S:719:VAL:HG12	1.79	0.47
1:U:371:MET:O	1:U:372:VAL:C	2.56	0.47
1:V:245:ARG:HG2	1:V:363:PRO:HD2	1.96	0.47
1:V:273:PHE:O	1:V:273:PHE:CG	2.68	0.47
1:X:269:ASP:O	1:l:432:ARG:NH2	2.47	0.47
1:Z:269:ASP:O	1:t:432:ARG:NH2	2.47	0.47
1:Z:545:GLN:HE22	1:Z:719:VAL:HG12	1.79	0.47
1:Z:560:THR:HB	1:Z:612:TYR:CZ	2.49	0.47
1:b:487:ARG:HB3	1:b:573:THR:HG21	1.95	0.47
1:d:450:THR:HG21	1:d:459:ARG:CZ	2.45	0.47
1:e:560:THR:HB	1:e:612:TYR:CZ	2.50	0.47
1:f:269:ASP:O	1:y:432:ARG:NH2	2.47	0.47
1:f:450:THR:HG21	1:f:459:ARG:CZ	2.45	0.47
1:g:275:TYR:CE2	1:g:392:PHE:HB3	2.49	0.47
1:g:441:TYR:O	1:g:442:LEU:HD12	2.14	0.47
1:h:426:HIS:CE1	1:h:607:GLN:HE21	2.17	0.47
1:i:273:PHE:O	1:i:273:PHE:CG	2.68	0.47
1:i:450:THR:HG21	1:i:459:ARG:CZ	2.45	0.47
1:j:301:ASN:HD22	1:j:699:GLN:HB3	1.78	0.47
1:j:350:LEU:HD22	1:j:395:LEU:HD21	1.90	0.47
1:k:413:TYR:CE2	1:k:643:PRO:HG3	2.49	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:k:617:ILE:HD11	1:k:618:TRP:CZ3	2.50	0.47
1:l:441:TYR:O	1:l:442:LEU:HD12	2.14	0.47
1:n:450:THR:HG21	1:n:459:ARG:CZ	2.45	0.47
1:o:314:LYS:HE3	1:o:316:PHE:CZ	2.50	0.47
1:p:334:ASN:ND2	1:5:337:THR:OG1	2.47	0.47
1:p:450:THR:HG21	1:p:459:ARG:CZ	2.45	0.47
1:r:314:LYS:HE3	1:r:316:PHE:CZ	2.50	0.47
1:u:314:LYS:HE3	1:u:316:PHE:CZ	2.49	0.47
1:v:245:ARG:HG2	1:v:363:PRO:HD2	1.96	0.47
1:w:314:LYS:HE3	1:w:316:PHE:CZ	2.50	0.47
1:w:350:LEU:HD13	1:w:395:LEU:HD22	1.95	0.47
1:w:550:THR:HG23	1:w:551:ASN:H	1.79	0.47
1:y:571:VAL:HB	1:y:574:GLU:HB3	1.97	0.47
1:2:550:THR:HG23	1:2:551:ASN:H	1.79	0.47
1:3:371:MET:O	1:3:372:VAL:C	2.56	0.47
1:3:560:THR:HB	1:3:612:TYR:CZ	2.50	0.47
1:5:560:THR:HB	1:5:612:TYR:CZ	2.50	0.47
1:8:545:GLN:HE22	1:8:719:VAL:HG12	1.79	0.47
1:A:245:ARG:HG2	1:A:363:PRO:HD2	1.96	0.47
1:B:282:PHE:HD2	1:B:313:PHE:HZ	1.63	0.47
1:B:314:LYS:HE3	1:B:316:PHE:CZ	2.50	0.47
1:B:560:THR:HB	1:B:612:TYR:CZ	2.49	0.47
1:B:571:VAL:HB	1:B:574:GLU:HB3	1.97	0.47
1:B:584:GLN:HE22	1:4:486:GLN:CG	2.26	0.47
1:C:275:TYR:CE2	1:C:392:PHE:HB3	2.49	0.47
1:C:310:ARG:NE	1:C:683:GLU:OE1	2.41	0.47
1:C:397:TYR:HE2	1:r:692:LYS:NZ	2.13	0.47
1:C:413:TYR:CE2	1:C:643:PRO:HG3	2.49	0.47
1:C:441:TYR:O	1:C:442:LEU:HD12	2.14	0.47
1:C:617:ILE:HD11	1:C:618:TRP:CZ3	2.50	0.47
1:D:273:PHE:O	1:D:273:PHE:CG	2.68	0.47
1:D:413:TYR:CE2	1:D:643:PRO:HG3	2.49	0.47
1:E:282:PHE:HD2	1:E:313:PHE:HZ	1.63	0.47
1:E:316:PHE:HB2	1:E:677:GLN:CB	2.44	0.47
1:E:545:GLN:HE22	1:E:719:VAL:HG12	1.79	0.47
1:F:441:TYR:O	1:F:442:LEU:HD12	2.14	0.47
1:F:560:THR:HB	1:F:612:TYR:CZ	2.50	0.47
1:F:617:ILE:HD11	1:F:618:TRP:CZ3	2.50	0.47
1:G:273:PHE:O	1:G:273:PHE:CG	2.68	0.47
1:G:337:THR:OG1	1:J:334:ASN:ND2	2.48	0.47
1:G:413:TYR:CE2	1:G:643:PRO:HG3	2.49	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:431:ASP:OD2	1:8:513:ARG:NE	2.48	0.47
1:G:560:THR:HB	1:G:612:TYR:CZ	2.49	0.47
1:H:314:LYS:HE3	1:H:316:PHE:CZ	2.50	0.47
1:H:413:TYR:CE2	1:H:643:PRO:HG3	2.49	0.47
1:I:243:SER:HB2	1:I:245:ARG:NH1	2.21	0.47
1:I:314:LYS:HE3	1:I:316:PHE:CZ	2.49	0.47
1:I:316:PHE:HB2	1:I:677:GLN:CB	2.44	0.47
1:I:432:ARG:NH2	1:N:269:ASP:O	2.47	0.47
1:J:273:PHE:O	1:J:273:PHE:CG	2.68	0.47
1:J:432:ARG:NH2	1:p:269:ASP:O	2.47	0.47
1:J:513:ARG:NE	1:P:431:ASP:OD2	2.48	0.47
1:K:273:PHE:O	1:K:273:PHE:CG	2.68	0.47
1:K:282:PHE:HD2	1:K:313:PHE:HZ	1.63	0.47
1:K:314:LYS:HE3	1:K:316:PHE:CZ	2.50	0.47
1:K:350:LEU:HD21	1:K:398:PHE:HE2	1.80	0.47
1:L:273:PHE:O	1:L:273:PHE:CG	2.68	0.47
1:L:432:ARG:NH2	1:Q:269:ASP:O	2.47	0.47
1:M:273:PHE:O	1:M:273:PHE:CG	2.68	0.47
1:M:314:LYS:HE3	1:M:316:PHE:CZ	2.50	0.47
1:M:434:MET:SD	1:M:473:GLN:CD	2.97	0.47
1:M:450:THR:HG21	1:M:459:ARG:CZ	2.45	0.47
1:M:521:PRO:HD2	1:M:523:MET:HG2	1.95	0.47
1:M:571:VAL:HB	1:M:574:GLU:HB3	1.97	0.47
1:N:275:TYR:CE2	1:N:392:PHE:HB3	2.49	0.47
1:N:413:TYR:CE2	1:N:643:PRO:HG3	2.49	0.47
1:N:450:THR:HG21	1:N:459:ARG:CZ	2.45	0.47
1:N:571:VAL:HB	1:N:574:GLU:HB3	1.97	0.47
1:P:350:LEU:HD21	1:P:398:PHE:HE2	1.80	0.47
1:P:450:THR:HG21	1:P:459:ARG:CZ	2.45	0.47
1:Q:282:PHE:HD2	1:Q:313:PHE:HZ	1.63	0.47
1:Q:441:TYR:O	1:Q:442:LEU:HD12	2.14	0.47
1:R:387:VAL:HG12	1:R:388:GLY:N	2.21	0.47
1:R:571:VAL:HB	1:R:574:GLU:HB3	1.97	0.47
1:S:302:ASN:HD21	1:X:302:ASN:ND2	2.09	0.47
1:S:431:ASP:OD2	1:g:513:ARG:NE	2.47	0.47
1:S:617:ILE:HD11	1:S:618:TRP:CZ3	2.50	0.47
1:U:282:PHE:HD2	1:U:313:PHE:HZ	1.62	0.47
1:U:314:LYS:HE3	1:U:316:PHE:CZ	2.50	0.47
1:U:560:THR:HB	1:U:612:TYR:CZ	2.50	0.47
1:W:560:THR:HB	1:W:612:TYR:CZ	2.49	0.47
1:X:314:LYS:HE3	1:X:316:PHE:CZ	2.50	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:X:550:THR:HG23	1:X:551:ASN:H	1.79	0.47
1:Y:296:TRP:CG	1:Y:613:LEU:HD13	2.50	0.47
1:Z:350:LEU:HD13	1:Z:395:LEU:HD22	1.95	0.47
1:Z:431:ASP:O	1:Z:475:ARG:NH2	2.48	0.47
1:Z:513:ARG:NE	1:t:431:ASP:OD2	2.48	0.47
1:a:314:LYS:HE3	1:a:316:PHE:CZ	2.50	0.47
1:a:521:PRO:HD2	1:a:523:MET:HG2	1.95	0.47
1:a:550:THR:HG23	1:a:551:ASN:H	1.79	0.47
1:a:571:VAL:HB	1:a:574:GLU:HB3	1.97	0.47
1:a:617:ILE:HD11	1:a:618:TRP:CZ3	2.50	0.47
1:b:275:TYR:CE2	1:b:392:PHE:HB3	2.49	0.47
1:d:314:LYS:HE3	1:d:316:PHE:CZ	2.50	0.47
1:e:584:GLN:HE22	1:3:486:GLN:CG	2.26	0.47
1:f:275:TYR:CE2	1:f:392:PHE:HB3	2.49	0.47
1:f:413:TYR:CE2	1:f:643:PRO:HG3	2.49	0.47
1:f:487:ARG:HB3	1:f:573:THR:HG21	1.95	0.47
1:f:617:ILE:HD11	1:f:618:TRP:CZ3	2.50	0.47
1:g:387:VAL:HG12	1:g:388:GLY:N	2.21	0.47
1:g:521:PRO:HD2	1:g:523:MET:HG2	1.95	0.47
1:g:617:ILE:HD11	1:g:618:TRP:CZ3	2.50	0.47
1:h:273:PHE:O	1:h:273:PHE:CG	2.68	0.47
1:h:314:LYS:HE3	1:h:316:PHE:CZ	2.50	0.47
1:h:434:MET:SD	1:h:473:GLN:CD	2.97	0.47
1:h:450:THR:HG21	1:h:459:ARG:CZ	2.45	0.47
1:h:571:VAL:HB	1:h:574:GLU:HB3	1.97	0.47
1:i:243:SER:HB2	1:i:245:ARG:NH1	2.22	0.47
1:i:269:ASP:O	1:u:432:ARG:NH2	2.47	0.47
1:i:275:TYR:CE2	1:i:392:PHE:HB3	2.49	0.47
1:i:314:LYS:HE3	1:i:316:PHE:CZ	2.50	0.47
1:i:571:VAL:HB	1:i:574:GLU:HB3	1.97	0.47
1:j:350:LEU:HD21	1:j:398:PHE:HE2	1.80	0.47
1:j:450:THR:HG21	1:j:459:ARG:CZ	2.45	0.47
1:j:571:VAL:HB	1:j:574:GLU:HB3	1.97	0.47
1:k:441:TYR:O	1:k:442:LEU:HD12	2.14	0.47
1:k:450:THR:HG21	1:k:459:ARG:CZ	2.45	0.47
1:l:275:TYR:CE2	1:l:392:PHE:HB3	2.49	0.47
1:l:429:SER:OG	1:l:431:ASP:OD1	2.23	0.47
1:m:441:TYR:O	1:m:442:LEU:HD12	2.14	0.47
1:m:450:THR:HG21	1:m:459:ARG:CZ	2.45	0.47
1:m:560:THR:HB	1:m:612:TYR:CZ	2.50	0.47
1:n:314:LYS:HE3	1:n:316:PHE:CZ	2.50	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:o:310:ARG:NE	1:o:683:GLU:OE1	2.41	0.47
1:o:550:THR:HG23	1:o:551:ASN:H	1.79	0.47
1:p:245:ARG:HG2	1:p:363:PRO:HD2	1.96	0.47
1:p:273:PHE:O	1:p:273:PHE:CG	2.68	0.47
1:q:571:VAL:HB	1:q:574:GLU:HB3	1.97	0.47
1:r:275:TYR:CE2	1:r:392:PHE:HB3	2.49	0.47
1:r:334:ASN:ND2	1:w:337:THR:OG1	2.48	0.47
1:r:397:TYR:HE2	1:5:692:LYS:NZ	2.12	0.47
1:r:550:THR:HG23	1:r:551:ASN:H	1.79	0.47
1:r:617:ILE:HD11	1:r:618:TRP:CZ3	2.50	0.47
1:s:282:PHE:HD2	1:s:313:PHE:HZ	1.63	0.47
1:s:310:ARG:NE	1:s:683:GLU:OE1	2.41	0.47
1:s:314:LYS:HE3	1:s:316:PHE:CZ	2.50	0.47
1:s:413:TYR:CE2	1:s:643:PRO:HG3	2.49	0.47
1:s:571:VAL:HB	1:s:574:GLU:HB3	1.97	0.47
1:t:273:PHE:O	1:t:273:PHE:CG	2.68	0.47
1:t:314:LYS:HE3	1:t:316:PHE:CZ	2.50	0.47
1:t:413:TYR:CE2	1:t:643:PRO:HG3	2.49	0.47
1:u:243:SER:HB2	1:u:245:ARG:NH1	2.21	0.47
1:v:441:TYR:O	1:v:442:LEU:HD12	2.14	0.47
1:v:560:THR:HB	1:v:612:TYR:CZ	2.50	0.47
1:v:617:ILE:HD11	1:v:618:TRP:CZ3	2.50	0.47
1:w:282:PHE:HD2	1:w:313:PHE:HZ	1.63	0.47
1:w:316:PHE:HB2	1:w:677:GLN:CB	2.44	0.47
1:x:282:PHE:HD2	1:x:313:PHE:HZ	1.63	0.47
1:x:350:LEU:HD21	1:x:398:PHE:HE2	1.80	0.47
1:x:441:TYR:O	1:x:442:LEU:HD12	2.14	0.47
1:y:273:PHE:O	1:y:273:PHE:CG	2.68	0.47
1:y:429:SER:OG	1:y:431:ASP:OD1	2.23	0.47
1:y:441:TYR:O	1:y:442:LEU:HD12	2.14	0.47
1:y:560:THR:HB	1:y:612:TYR:CZ	2.50	0.47
1:y:617:ILE:HD11	1:y:618:TRP:CZ3	2.50	0.47
1:z:273:PHE:O	1:z:273:PHE:CG	2.68	0.47
1:z:441:TYR:O	1:z:442:LEU:HD12	2.14	0.47
1:z:521:PRO:HD2	1:z:523:MET:HG2	1.95	0.47
1:z:545:GLN:HE22	1:z:719:VAL:HG12	1.79	0.47
1:1:282:PHE:HD2	1:1:313:PHE:HZ	1.63	0.47
1:1:314:LYS:HE3	1:1:316:PHE:CZ	2.50	0.47
1:1:571:VAL:HB	1:1:574:GLU:HB3	1.97	0.47
1:1:617:ILE:HD11	1:1:618:TRP:CZ3	2.50	0.47
1:2:310:ARG:NE	1:2:683:GLU:OE1	2.41	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:3:571:VAL:HB	1:3:574:GLU:HB3	1.97	0.47
1:4:273:PHE:O	1:4:273:PHE:CG	2.68	0.47
1:4:282:PHE:HD2	1:4:313:PHE:HZ	1.63	0.47
1:4:316:PHE:HB2	1:4:677:GLN:CB	2.44	0.47
1:4:337:THR:OG1	1:8:334:ASN:ND2	2.47	0.47
1:4:350:LEU:HD21	1:4:398:PHE:HE2	1.80	0.47
1:4:545:GLN:HE22	1:4:719:VAL:HG12	1.79	0.47
1:4:560:THR:HB	1:4:612:TYR:CZ	2.50	0.47
1:4:584:GLN:HE22	1:6:486:GLN:CG	2.26	0.47
1:5:314:LYS:HE3	1:5:316:PHE:CZ	2.50	0.47
1:5:431:ASP:O	1:5:475:ARG:NH2	2.48	0.47
1:6:560:THR:HB	1:6:612:TYR:CZ	2.50	0.47
1:7:296:TRP:CG	1:7:613:LEU:HD13	2.50	0.47
1:7:560:THR:HB	1:7:612:TYR:CZ	2.49	0.47
1:8:431:ASP:O	1:8:475:ARG:NH2	2.48	0.47
1:8:560:THR:HB	1:8:612:TYR:CZ	2.50	0.47
1:A:273:PHE:CG	1:A:273:PHE:O	2.68	0.47
1:A:450:THR:HG21	1:A:459:ARG:CZ	2.45	0.47
1:A:560:THR:HB	1:A:612:TYR:CZ	2.50	0.47
1:A:617:ILE:HD11	1:A:618:TRP:CZ3	2.50	0.47
1:B:296:TRP:CG	1:B:613:LEU:HD13	2.50	0.47
1:B:337:THR:OG1	1:a:334:ASN:ND2	2.47	0.47
1:C:431:ASP:O	1:C:475:ARG:NH2	2.48	0.47
1:C:521:PRO:HD2	1:C:523:MET:HG2	1.95	0.47
1:D:350:LEU:HD22	1:D:395:LEU:HD21	1.90	0.47
1:D:450:THR:HG21	1:D:459:ARG:CZ	2.45	0.47
1:D:513:ARG:NE	1:T:431:ASP:OD2	2.48	0.47
1:E:560:THR:HB	1:E:612:TYR:CZ	2.49	0.47
1:G:486:GLN:CG	1:M:584:GLN:HE22	2.26	0.47
1:H:571:VAL:HB	1:H:574:GLU:HB3	1.97	0.47
1:I:513:ARG:NE	1:U:431:ASP:OD2	2.48	0.47
1:I:617:ILE:HD11	1:I:618:TRP:CZ3	2.50	0.47
1:J:553:ASP:OD1	1:J:554:ILE:N	2.43	0.47
1:K:337:THR:OG1	1:Z:334:ASN:ND2	2.47	0.47
1:K:521:PRO:HD2	1:K:523:MET:HG2	1.95	0.47
1:K:584:GLN:HE22	1:W:486:GLN:CG	2.26	0.47
1:L:513:ARG:NE	1:Y:431:ASP:OD2	2.48	0.47
1:M:296:TRP:CG	1:M:613:LEU:HD13	2.50	0.47
1:N:432:ARG:NH2	1:U:269:ASP:O	2.47	0.47
1:O:245:ARG:HG2	1:O:363:PRO:HD2	1.96	0.47
1:O:275:TYR:CE2	1:O:392:PHE:HB3	2.49	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:O:302:ASN:HD21	1:q:302:ASN:ND2	2.10	0.47
1:R:316:PHE:HB2	1:R:677:GLN:CB	2.44	0.47
1:R:513:ARG:NE	1:k:431:ASP:OD2	2.48	0.47
1:S:275:TYR:CE2	1:S:392:PHE:HB3	2.49	0.47
1:T:245:ARG:HG2	1:T:363:PRO:HD2	1.96	0.47
1:T:334:ASN:ND2	1:k:337:THR:OG1	2.47	0.47
1:T:441:TYR:O	1:T:442:LEU:HD12	2.14	0.47
1:T:560:THR:HB	1:T:612:TYR:CZ	2.50	0.47
1:U:296:TRP:CG	1:U:613:LEU:HD13	2.50	0.47
1:W:432:ARG:NH2	1:1:269:ASP:O	2.47	0.47
1:X:310:ARG:NE	1:X:683:GLU:OE1	2.41	0.47
1:X:350:LEU:HD21	1:X:398:PHE:HE2	1.80	0.47
1:X:441:TYR:O	1:X:442:LEU:HD12	2.14	0.47
1:X:521:PRO:HD2	1:X:523:MET:HG2	1.95	0.47
1:Y:560:THR:HB	1:Y:612:TYR:CZ	2.50	0.47
1:Z:310:ARG:NE	1:Z:683:GLU:OE1	2.41	0.47
1:Z:413:TYR:CE2	1:Z:643:PRO:HG3	2.49	0.47
1:a:431:ASP:OD2	1:v:513:ARG:NE	2.48	0.47
1:a:513:ARG:NE	1:c:431:ASP:OD2	2.48	0.47
1:b:350:LEU:HD22	1:b:395:LEU:HD21	1.90	0.47
1:c:314:LYS:HE3	1:c:316:PHE:CZ	2.50	0.47
1:g:413:TYR:CE2	1:g:643:PRO:HG3	2.49	0.47
1:g:431:ASP:O	1:g:475:ARG:NH2	2.48	0.47
1:i:413:TYR:CE2	1:i:643:PRO:HG3	2.49	0.47
1:j:296:TRP:CG	1:j:613:LEU:HD13	2.50	0.47
1:j:692:LYS:NZ	1:2:397:TYR:HE2	2.13	0.47
1:k:273:PHE:O	1:k:273:PHE:CG	2.68	0.47
1:l:245:ARG:HG2	1:l:363:PRO:HD2	1.96	0.47
1:l:450:THR:HG21	1:l:459:ARG:CZ	2.45	0.47
1:o:302:ASN:ND2	1:r:302:ASN:HD21	2.09	0.47
1:o:350:LEU:HD21	1:o:398:PHE:HE2	1.80	0.47
1:o:441:TYR:O	1:o:442:LEU:HD12	2.14	0.47
1:o:521:PRO:HD2	1:o:523:MET:HG2	1.95	0.47
1:r:273:PHE:O	1:r:273:PHE:CG	2.68	0.47
1:s:431:ASP:OD2	1:u:513:ARG:NE	2.48	0.47
1:s:560:THR:HB	1:s:612:TYR:CZ	2.50	0.47
1:t:560:THR:HB	1:t:612:TYR:CZ	2.50	0.47
1:t:617:ILE:HD11	1:t:618:TRP:CZ3	2.50	0.47
1:u:316:PHE:HB2	1:u:677:GLN:CB	2.44	0.47
1:u:617:ILE:HD11	1:u:618:TRP:CZ3	2.50	0.47
1:v:273:PHE:O	1:v:273:PHE:CG	2.68	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:w:450:THR:HG21	1:w:459:ARG:CZ	2.45	0.47
1:2:273:PHE:O	1:2:273:PHE:CG	2.68	0.47
1:2:617:ILE:HD11	1:2:618:TRP:CZ3	2.50	0.47
1:3:617:ILE:HD11	1:3:618:TRP:CZ3	2.50	0.47
1:8:413:TYR:CE2	1:8:643:PRO:HG3	2.49	0.47
1:B:269:ASP:O	1:6:432:ARG:NH2	2.47	0.47
1:C:314:LYS:HE3	1:C:316:PHE:CZ	2.50	0.47
1:C:545:GLN:HE22	1:C:719:VAL:HG12	1.79	0.47
1:D:545:GLN:HE22	1:D:719:VAL:HG12	1.79	0.47
1:E:450:THR:HG21	1:E:459:ARG:CZ	2.45	0.47
1:E:617:ILE:HD11	1:E:618:TRP:CZ3	2.50	0.47
1:F:273:PHE:O	1:F:273:PHE:CG	2.68	0.47
1:F:584:GLN:HE22	1:b:486:GLN:CG	2.26	0.47
1:G:617:ILE:HD11	1:G:618:TRP:CZ3	2.50	0.47
1:H:345:ASP:O	1:H:346:SER:CB	2.54	0.47
1:H:431:ASP:O	1:H:475:ARG:NH2	2.48	0.47
1:J:314:LYS:HE3	1:J:316:PHE:CZ	2.50	0.47
1:K:316:PHE:HB2	1:K:677:GLN:CB	2.44	0.47
1:K:441:TYR:O	1:K:442:LEU:HD12	2.14	0.47
1:L:296:TRP:CG	1:L:613:LEU:HD13	2.50	0.47
1:L:334:ASN:ND2	1:8:337:THR:OG1	2.47	0.47
1:L:545:GLN:HE22	1:L:719:VAL:HG12	1.79	0.47
1:L:550:THR:HG23	1:L:551:ASN:H	1.79	0.47
1:L:617:ILE:HD11	1:L:618:TRP:CZ3	2.50	0.47
1:M:245:ARG:HG2	1:M:363:PRO:HD2	1.96	0.47
1:M:275:TYR:CE2	1:M:392:PHE:HB3	2.49	0.47
1:M:316:PHE:HB2	1:M:677:GLN:CB	2.44	0.47
1:O:243:SER:HB2	1:O:245:ARG:NH1	2.22	0.47
1:P:245:ARG:HG2	1:P:363:PRO:HD2	1.96	0.47
1:P:560:THR:HB	1:P:612:TYR:CZ	2.50	0.47
1:P:571:VAL:HB	1:P:574:GLU:HB3	1.97	0.47
1:Q:350:LEU:HD21	1:Q:398:PHE:HE2	1.80	0.47
1:R:296:TRP:CG	1:R:613:LEU:HD13	2.50	0.47
1:R:550:THR:HG23	1:R:551:ASN:H	1.79	0.47
1:S:273:PHE:O	1:S:273:PHE:CG	2.68	0.47
1:S:550:THR:HG23	1:S:551:ASN:H	1.79	0.47
1:T:350:LEU:HD21	1:T:398:PHE:HE2	1.80	0.47
1:T:450:THR:HG21	1:T:459:ARG:CZ	2.45	0.47
1:U:413:TYR:CE2	1:U:643:PRO:HG3	2.49	0.47
1:U:431:ASP:O	1:U:475:ARG:NH2	2.48	0.47
1:U:571:VAL:HB	1:U:574:GLU:HB3	1.97	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:U:617:ILE:HD11	1:U:618:TRP:CZ3	2.50	0.47
1:V:513:ARG:NE	1:2:431:ASP:OD2	2.48	0.47
1:V:617:ILE:HD11	1:V:618:TRP:CZ3	2.50	0.47
1:W:617:ILE:HD11	1:W:618:TRP:CZ3	2.50	0.47
1:X:450:THR:HG21	1:X:459:ARG:CZ	2.45	0.47
1:X:617:ILE:HD11	1:X:618:TRP:CZ3	2.50	0.47
1:Y:571:VAL:HB	1:Y:574:GLU:HB3	1.97	0.47
1:Z:337:THR:OG1	1:z:334:ASN:ND2	2.47	0.47
1:a:450:THR:HG21	1:a:459:ARG:CZ	2.45	0.47
1:b:413:TYR:CE2	1:b:643:PRO:HG3	2.49	0.47
1:b:440:GLN:O	1:b:464:GLN:NE2	2.28	0.47
1:d:431:ASP:OD2	1:y:513:ARG:NE	2.48	0.47
1:e:314:LYS:HE3	1:e:316:PHE:CZ	2.50	0.47
1:e:431:ASP:OD2	1:3:513:ARG:NE	2.48	0.47
1:e:550:THR:HG23	1:e:551:ASN:H	1.79	0.47
1:f:486:GLN:CG	1:y:584:GLN:HE22	2.26	0.47
1:g:310:ARG:NE	1:g:683:GLU:OE1	2.41	0.47
1:g:571:VAL:HB	1:g:574:GLU:HB3	1.97	0.47
1:h:275:TYR:CE2	1:h:392:PHE:HB3	2.49	0.47
1:h:296:TRP:CG	1:h:613:LEU:HD13	2.50	0.47
1:h:302:ASN:HD21	1:2:302:ASN:ND2	2.08	0.47
1:h:521:PRO:HD2	1:h:523:MET:HG2	1.95	0.47
1:h:550:THR:HG23	1:h:551:ASN:H	1.79	0.47
1:h:584:GLN:HE22	1:t:486:GLN:CG	2.26	0.47
1:i:296:TRP:CG	1:i:613:LEU:HD13	2.50	0.47
1:i:432:ARG:NH2	1:s:269:ASP:O	2.47	0.47
1:j:245:ARG:HG2	1:j:363:PRO:HD2	1.96	0.47
1:k:303:ASN:OD1	1:k:303:ASN:N	2.44	0.47
1:l:296:TRP:CG	1:l:613:LEU:HD13	2.50	0.47
1:m:245:ARG:HG2	1:m:363:PRO:HD2	1.96	0.47
1:m:545:GLN:HE22	1:m:719:VAL:HG12	1.79	0.47
1:n:718:GLY:HA2	1:q:257:TYR:O	2.14	0.47
1:o:617:ILE:HD11	1:o:618:TRP:CZ3	2.50	0.47
1:p:524:ALA:HB3	1:p:571:VAL:HA	1.97	0.47
1:q:296:TRP:CG	1:q:613:LEU:HD13	2.50	0.47
1:q:316:PHE:HB2	1:q:677:GLN:CB	2.44	0.47
1:q:387:VAL:HG12	1:q:388:GLY:N	2.21	0.47
1:r:513:ARG:NE	1:5:431:ASP:OD2	2.47	0.47
1:s:296:TRP:CG	1:s:613:LEU:HD13	2.50	0.47
1:s:431:ASP:O	1:s:475:ARG:NH2	2.48	0.47
1:t:245:ARG:HG2	1:t:363:PRO:HD2	1.96	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:v:450:THR:HG21	1:v:459:ARG:CZ	2.45	0.47
1:w:545:GLN:HE22	1:w:719:VAL:HG12	1.79	0.47
1:z:296:TRP:CG	1:z:613:LEU:HD13	2.50	0.47
1:z:513:ARG:NE	1:7:431:ASP:OD2	2.48	0.47
1:1:337:THR:OG1	1:3:334:ASN:ND2	2.47	0.47
1:2:314:LYS:HE3	1:2:316:PHE:CZ	2.50	0.47
1:3:314:LYS:HE3	1:3:316:PHE:CZ	2.50	0.47
1:3:450:THR:HG21	1:3:459:ARG:CZ	2.45	0.47
1:3:521:PRO:HD2	1:3:523:MET:HG2	1.95	0.47
1:3:550:THR:HG23	1:3:551:ASN:H	1.79	0.47
1:4:521:PRO:HD2	1:4:523:MET:HG2	1.95	0.47
1:5:571:VAL:HB	1:5:574:GLU:HB3	1.97	0.47
1:6:617:ILE:HD11	1:6:618:TRP:CZ3	2.50	0.47
1:7:571:VAL:HB	1:7:574:GLU:HB3	1.97	0.47
1:8:296:TRP:CG	1:8:613:LEU:HD13	2.50	0.47
1:B:350:LEU:HD21	1:B:398:PHE:HE2	1.80	0.47
1:B:550:THR:HG23	1:B:551:ASN:H	1.79	0.47
1:C:571:VAL:HB	1:C:574:GLU:HB3	1.97	0.47
1:D:337:THR:OG1	1:m:334:ASN:ND2	2.47	0.47
1:G:245:ARG:HG2	1:G:363:PRO:HD2	1.96	0.47
1:G:450:THR:HG21	1:G:459:ARG:CZ	2.45	0.47
1:I:395:LEU:H	1:I:395:LEU:HG	1.48	0.47
1:J:617:ILE:HD11	1:J:618:TRP:CZ3	2.50	0.47
1:K:296:TRP:CG	1:K:613:LEU:HD13	2.50	0.47
1:K:450:THR:HG21	1:K:459:ARG:CZ	2.45	0.47
1:L:314:LYS:HE3	1:L:316:PHE:CZ	2.50	0.47
1:L:486:GLN:CG	1:Y:584:GLN:HE22	2.26	0.47
1:M:486:GLN:CG	1:8:584:GLN:HE22	2.26	0.47
1:N:296:TRP:CG	1:N:613:LEU:HD13	2.50	0.47
1:O:282:PHE:HD2	1:O:313:PHE:HZ	1.63	0.47
1:O:296:TRP:CG	1:O:613:LEU:HD13	2.50	0.47
1:O:450:THR:HG21	1:O:459:ARG:CZ	2.45	0.47
1:P:296:TRP:CG	1:P:613:LEU:HD13	2.50	0.47
1:Q:296:TRP:CG	1:Q:613:LEU:HD13	2.50	0.47
1:R:617:ILE:HD11	1:R:618:TRP:CZ3	2.50	0.47
1:S:450:THR:HG21	1:S:459:ARG:CZ	2.45	0.47
1:S:524:ALA:HB3	1:S:571:VAL:HA	1.97	0.47
1:T:431:ASP:O	1:T:475:ARG:NH2	2.48	0.47
1:T:545:GLN:HE22	1:T:719:VAL:HG12	1.79	0.47
1:U:310:ARG:NE	1:U:683:GLU:OE1	2.41	0.47
1:V:282:PHE:HD2	1:V:313:PHE:HZ	1.62	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:V:397:TYR:HE2	1:2:692:LYS:NZ	2.13	0.47
1:V:524:ALA:HB3	1:V:571:VAL:HA	1.98	0.47
1:V:545:GLN:HE22	1:V:719:VAL:HG12	1.79	0.47
1:V:550:THR:HG23	1:V:551:ASN:H	1.79	0.47
1:W:387:VAL:HG12	1:W:388:GLY:N	2.21	0.47
1:X:571:VAL:HB	1:X:574:GLU:HB3	1.97	0.47
1:Z:296:TRP:CG	1:Z:613:LEU:HD13	2.50	0.47
1:Z:450:THR:HG21	1:Z:459:ARG:CZ	2.45	0.47
1:a:486:GLN:CG	1:c:584:GLN:HE22	2.26	0.47
1:b:296:TRP:CG	1:b:613:LEU:HD13	2.50	0.47
1:c:617:ILE:HD11	1:c:618:TRP:CZ3	2.50	0.47
1:e:617:ILE:HD11	1:e:618:TRP:CZ3	2.50	0.47
1:f:296:TRP:CG	1:f:613:LEU:HD13	2.50	0.47
1:g:314:LYS:HE3	1:g:316:PHE:CZ	2.50	0.47
1:h:316:PHE:HB2	1:h:677:GLN:CB	2.44	0.47
1:j:560:THR:HB	1:j:612:TYR:CZ	2.50	0.47
1:j:617:ILE:HD11	1:j:618:TRP:CZ3	2.50	0.47
1:k:269:ASP:O	1:m:432:ARG:NH2	2.47	0.47
1:k:513:ARG:NE	1:m:431:ASP:OD2	2.48	0.47
1:m:431:ASP:O	1:m:475:ARG:NH2	2.48	0.47
1:o:431:ASP:O	1:o:475:ARG:NH2	2.48	0.47
1:o:450:THR:HG21	1:o:459:ARG:CZ	2.45	0.47
1:o:571:VAL:HB	1:o:574:GLU:HB3	1.97	0.47
1:p:413:TYR:CE2	1:p:643:PRO:HG3	2.49	0.47
1:p:545:GLN:HE22	1:p:719:VAL:HG12	1.79	0.47
1:p:550:THR:HG23	1:p:551:ASN:H	1.79	0.47
1:p:617:ILE:HD11	1:p:618:TRP:CZ3	2.50	0.47
1:q:245:ARG:HG2	1:q:363:PRO:HD2	1.96	0.47
1:q:413:TYR:CE2	1:q:643:PRO:HG3	2.49	0.47
1:q:550:THR:HG23	1:q:551:ASN:H	1.79	0.47
1:q:617:ILE:HD11	1:q:618:TRP:CZ3	2.50	0.47
1:r:282:PHE:HD2	1:r:313:PHE:HZ	1.63	0.47
1:r:441:TYR:O	1:r:442:LEU:HD12	2.14	0.47
1:t:450:THR:HG21	1:t:459:ARG:CZ	2.45	0.47
1:w:560:THR:HB	1:w:612:TYR:CZ	2.50	0.47
1:w:617:ILE:HD11	1:w:618:TRP:CZ3	2.50	0.47
1:x:273:PHE:O	1:x:273:PHE:CG	2.68	0.47
1:x:296:TRP:CG	1:x:613:LEU:HD13	2.50	0.47
1:z:275:TYR:CE2	1:z:392:PHE:HB3	2.49	0.47
1:1:296:TRP:CG	1:1:613:LEU:HD13	2.50	0.47
1:1:350:LEU:HD21	1:1:398:PHE:HE2	1.80	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1:560:THR:HB	1:1:612:TYR:CZ	2.50	0.47
1:2:431:ASP:O	1:2:475:ARG:NH2	2.48	0.47
1:2:553:ASP:OD1	1:2:554:ILE:N	2.43	0.47
1:4:441:TYR:O	1:4:442:LEU:HD12	2.14	0.47
1:4:450:THR:HG21	1:4:459:ARG:CZ	2.45	0.47
1:4:571:VAL:HB	1:4:574:GLU:HB3	1.97	0.47
1:7:450:THR:HG21	1:7:459:ARG:CZ	2.45	0.47
1:A:316:PHE:HB2	1:A:677:GLN:CB	2.44	0.46
1:B:243:SER:HB2	1:B:245:ARG:NH1	2.22	0.46
1:F:513:ARG:NE	1:n:431:ASP:OD2	2.48	0.46
1:H:617:ILE:HD11	1:H:618:TRP:CZ3	2.50	0.46
1:J:269:ASP:O	1:P:432:ARG:NH2	2.47	0.46
1:J:431:ASP:O	1:J:475:ARG:NH2	2.48	0.46
1:J:560:THR:HB	1:J:612:TYR:CZ	2.50	0.46
1:L:622:PRO:HG2	1:Y:605:VAL:HG11	1.98	0.46
1:M:550:THR:HG23	1:M:551:ASN:H	1.79	0.46
1:O:314:LYS:HE3	1:O:316:PHE:CZ	2.50	0.46
1:O:316:PHE:HB2	1:O:677:GLN:CB	2.44	0.46
1:O:345:ASP:O	1:O:346:SER:CB	2.54	0.46
1:Q:273:PHE:O	1:Q:273:PHE:CG	2.68	0.46
1:Q:431:ASP:OD2	1:Y:513:ARG:NE	2.48	0.46
1:R:413:TYR:CE2	1:R:643:PRO:HG3	2.49	0.46
1:S:282:PHE:HD2	1:S:313:PHE:HZ	1.62	0.46
1:S:441:TYR:O	1:S:442:LEU:HD12	2.14	0.46
1:T:296:TRP:CG	1:T:613:LEU:HD13	2.50	0.46
1:U:245:ARG:HG2	1:U:363:PRO:HD2	1.96	0.46
1:W:524:ALA:HB3	1:W:571:VAL:HA	1.97	0.46
1:Y:441:TYR:O	1:Y:442:LEU:HD12	2.14	0.46
1:c:550:THR:HG23	1:c:551:ASN:H	1.79	0.46
1:d:273:PHE:O	1:d:273:PHE:CG	2.68	0.46
1:d:429:SER:OG	1:d:431:ASP:OD1	2.23	0.46
1:g:545:GLN:HE22	1:g:719:VAL:HG12	1.79	0.46
1:g:560:THR:HB	1:g:612:TYR:CZ	2.50	0.46
1:h:245:ARG:HG2	1:h:363:PRO:HD2	1.96	0.46
1:k:314:LYS:HE3	1:k:316:PHE:CZ	2.50	0.46
1:k:545:GLN:HE22	1:k:719:VAL:HG12	1.79	0.46
1:k:560:THR:HB	1:k:612:TYR:CZ	2.49	0.46
1:l:282:PHE:HD2	1:l:313:PHE:HZ	1.63	0.46
1:l:314:LYS:HE3	1:l:316:PHE:CZ	2.50	0.46
1:l:316:PHE:HB2	1:l:677:GLN:CB	2.44	0.46
1:m:296:TRP:CG	1:m:613:LEU:HD13	2.50	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:m:350:LEU:HD21	1:m:398:PHE:HE2	1.80	0.46
1:n:273:PHE:O	1:n:273:PHE:CG	2.68	0.46
1:n:429:SER:OG	1:n:431:ASP:OD1	2.23	0.46
1:p:441:TYR:O	1:p:442:LEU:HD12	2.14	0.46
1:s:245:ARG:HG2	1:s:363:PRO:HD2	1.96	0.46
1:s:617:ILE:HD11	1:s:618:TRP:CZ3	2.50	0.46
1:v:316:PHE:HB2	1:v:677:GLN:CB	2.44	0.46
1:z:550:THR:HG23	1:z:551:ASN:H	1.79	0.46
1:z:617:ILE:HD11	1:z:618:TRP:CZ3	2.50	0.46
1:2:560:THR:HB	1:2:612:TYR:CZ	2.50	0.46
1:4:296:TRP:CG	1:4:613:LEU:HD13	2.50	0.46
1:5:345:ASP:O	1:5:346:SER:CB	2.54	0.46
1:5:617:ILE:HD11	1:5:618:TRP:CZ3	2.50	0.46
1:8:450:THR:HG21	1:8:459:ARG:CZ	2.45	0.46
1:A:513:ARG:NE	1:3:431:ASP:OD2	2.48	0.46
1:A:571:VAL:HB	1:A:574:GLU:HB3	1.97	0.46
1:B:303:ASN:OD1	1:B:303:ASN:N	2.44	0.46
1:C:296:TRP:CG	1:C:613:LEU:HD13	2.50	0.46
1:C:560:THR:HB	1:C:612:TYR:CZ	2.50	0.46
1:D:314:LYS:HE3	1:D:316:PHE:CZ	2.50	0.46
1:E:337:THR:OG1	1:S:334:ASN:ND2	2.48	0.46
1:J:450:THR:HG21	1:J:459:ARG:CZ	2.45	0.46
1:K:571:VAL:HB	1:K:574:GLU:HB3	1.97	0.46
1:L:275:TYR:CE2	1:L:392:PHE:HB3	2.49	0.46
1:L:571:VAL:HB	1:L:574:GLU:HB3	1.97	0.46
1:N:243:SER:HB2	1:N:245:ARG:NH1	2.22	0.46
1:N:560:THR:HB	1:N:612:TYR:CZ	2.50	0.46
1:N:617:ILE:HD11	1:N:618:TRP:CZ3	2.50	0.46
1:O:269:ASP:O	1:w:432:ARG:NH2	2.47	0.46
1:O:273:PHE:O	1:O:273:PHE:CG	2.68	0.46
1:P:617:ILE:HD11	1:P:618:TRP:CZ3	2.50	0.46
1:Q:245:ARG:HG2	1:Q:363:PRO:HD2	1.96	0.46
1:Q:431:ASP:O	1:Q:475:ARG:NH2	2.48	0.46
1:Q:550:THR:HG23	1:Q:551:ASN:H	1.79	0.46
1:R:245:ARG:HG2	1:R:363:PRO:HD2	1.96	0.46
1:R:397:TYR:HE2	1:k:692:LYS:HZ1	1.64	0.46
1:V:413:TYR:CE2	1:V:643:PRO:HG3	2.49	0.46
1:V:441:TYR:O	1:V:442:LEU:HD12	2.14	0.46
1:W:395:LEU:H	1:W:395:LEU:HG	1.48	0.46
1:X:431:ASP:O	1:X:475:ARG:NH2	2.48	0.46
1:Y:450:THR:HG21	1:Y:459:ARG:CZ	2.45	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Z:273:PHE:O	1:Z:273:PHE:CG	2.68	0.46
1:a:296:TRP:CG	1:a:613:LEU:HD13	2.50	0.46
1:f:314:LYS:HE3	1:f:316:PHE:CZ	2.50	0.46
1:f:622:PRO:HG2	1:y:605:VAL:HG11	1.98	0.46
1:g:296:TRP:CG	1:g:613:LEU:HD13	2.50	0.46
1:h:560:THR:HB	1:h:612:TYR:CZ	2.50	0.46
1:i:560:THR:HB	1:i:612:TYR:CZ	2.49	0.46
1:j:550:THR:HG23	1:j:551:ASN:H	1.79	0.46
1:l:243:SER:HB2	1:l:245:ARG:NH1	2.22	0.46
1:l:273:PHE:O	1:l:273:PHE:CG	2.68	0.46
1:l:350:LEU:HD21	1:l:398:PHE:HE2	1.80	0.46
1:m:617:ILE:HD11	1:m:618:TRP:CZ3	2.50	0.46
1:p:282:PHE:HD2	1:p:313:PHE:HZ	1.63	0.46
1:p:296:TRP:CG	1:p:613:LEU:HD13	2.50	0.46
1:p:314:LYS:HE3	1:p:316:PHE:CZ	2.50	0.46
1:r:524:ALA:HB3	1:r:571:VAL:HA	1.98	0.46
1:t:431:ASP:O	1:t:475:ARG:NH2	2.48	0.46
1:u:395:LEU:H	1:u:395:LEU:HG	1.48	0.46
1:u:571:VAL:HB	1:u:574:GLU:HB3	1.97	0.46
1:v:571:VAL:HB	1:v:574:GLU:HB3	1.97	0.46
1:x:245:ARG:HG2	1:x:363:PRO:HD2	1.96	0.46
1:x:513:ARG:NE	1:z:431:ASP:OD2	2.48	0.46
1:x:524:ALA:HB3	1:x:571:VAL:HA	1.97	0.46
1:x:571:VAL:HB	1:x:574:GLU:HB3	1.97	0.46
1:y:245:ARG:HG2	1:y:363:PRO:HD2	1.96	0.46
1:z:486:GLN:CG	1:7:584:GLN:HE22	2.26	0.46
1:z:571:VAL:HB	1:z:574:GLU:HB3	1.97	0.46
1:z:622:PRO:HG2	1:7:605:VAL:HG11	1.98	0.46
1:1:243:SER:HB2	1:1:245:ARG:NH1	2.22	0.46
1:1:550:THR:HG23	1:1:551:ASN:H	1.79	0.46
1:3:296:TRP:CG	1:3:613:LEU:HD13	2.50	0.46
1:4:431:ASP:OD2	1:6:513:ARG:NE	2.48	0.46
1:6:314:LYS:HE3	1:6:316:PHE:CZ	2.50	0.46
1:6:524:ALA:HB3	1:6:571:VAL:HA	1.97	0.46
1:7:314:LYS:HE3	1:7:316:PHE:CZ	2.50	0.46
1:7:441:TYR:O	1:7:442:LEU:HD12	2.14	0.46
1:8:273:PHE:O	1:8:273:PHE:CG	2.68	0.46
1:8:310:ARG:NE	1:8:683:GLU:OE1	2.41	0.46
1:B:605:VAL:HG11	1:4:622:PRO:HG2	1.98	0.46
1:D:269:ASP:O	1:T:432:ARG:NH2	2.47	0.46
1:D:560:THR:HB	1:D:612:TYR:CZ	2.50	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:432:ARG:NH2	1:l:269:ASP:O	2.47	0.46
1:F:275:TYR:CE2	1:F:392:PHE:HB3	2.49	0.46
1:F:296:TRP:CG	1:F:613:LEU:HD13	2.50	0.46
1:F:605:VAL:HG11	1:b:622:PRO:HG2	1.98	0.46
1:G:431:ASP:O	1:G:475:ARG:NH2	2.48	0.46
1:H:245:ARG:HG2	1:H:363:PRO:HD2	1.96	0.46
1:H:416:GLU:N	1:H:416:GLU:CD	2.74	0.46
1:H:550:THR:HG23	1:H:551:ASN:H	1.79	0.46
1:K:431:ASP:OD2	1:W:513:ARG:NE	2.49	0.46
1:K:622:PRO:HG2	1:1:605:VAL:HG11	1.98	0.46
1:L:416:GLU:N	1:L:416:GLU:CD	2.74	0.46
1:M:524:ALA:HB3	1:M:571:VAL:HA	1.97	0.46
1:M:560:THR:HB	1:M:612:TYR:CZ	2.50	0.46
1:N:550:THR:HG23	1:N:551:ASN:H	1.79	0.46
1:O:350:LEU:HD21	1:O:398:PHE:HE2	1.80	0.46
1:P:513:ARG:NE	1:p:431:ASP:OD2	2.48	0.46
1:Q:432:ARG:NH2	1:Y:269:ASP:O	2.47	0.46
1:Q:524:ALA:HB3	1:Q:571:VAL:HA	1.97	0.46
1:T:282:PHE:HD2	1:T:313:PHE:HZ	1.62	0.46
1:T:314:LYS:HE3	1:T:316:PHE:CZ	2.50	0.46
1:T:617:ILE:HD11	1:T:618:TRP:CZ3	2.50	0.46
1:U:273:PHE:O	1:U:273:PHE:CG	2.68	0.46
1:V:314:LYS:HE3	1:V:316:PHE:CZ	2.50	0.46
1:W:314:LYS:HE3	1:W:316:PHE:CZ	2.50	0.46
1:W:350:LEU:HD22	1:W:395:LEU:HD21	1.90	0.46
1:X:560:THR:HB	1:X:612:TYR:CZ	2.50	0.46
1:Z:571:VAL:HB	1:Z:574:GLU:HB3	1.97	0.46
1:Z:584:GLN:HE22	1:h:486:GLN:CG	2.26	0.46
1:d:560:THR:HB	1:d:612:TYR:CZ	2.50	0.46
1:f:440:GLN:O	1:f:464:GLN:NE2	2.28	0.46
1:i:617:ILE:HD11	1:i:618:TRP:CZ3	2.50	0.46
1:m:524:ALA:HB3	1:m:571:VAL:HA	1.98	0.46
1:n:560:THR:HB	1:n:612:TYR:CZ	2.50	0.46
1:o:282:PHE:HD2	1:o:313:PHE:HZ	1.63	0.46
1:o:560:THR:HB	1:o:612:TYR:CZ	2.49	0.46
1:p:571:VAL:HB	1:p:574:GLU:HB3	1.97	0.46
1:r:450:THR:HG21	1:r:459:ARG:CZ	2.45	0.46
1:s:273:PHE:O	1:s:273:PHE:CG	2.68	0.46
1:t:296:TRP:CG	1:t:613:LEU:HD13	2.50	0.46
1:u:273:PHE:O	1:u:273:PHE:CG	2.68	0.46
1:u:350:LEU:HD21	1:u:398:PHE:HE2	1.80	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:v:302:ASN:HD21	1:7:302:ASN:ND2	2.09	0.46
1:x:431:ASP:OD2	1:7:513:ARG:NE	2.48	0.46
1:x:431:ASP:O	1:x:475:ARG:NH2	2.48	0.46
1:x:432:ARG:NH2	1:7:269:ASP:O	2.47	0.46
1:x:550:THR:HG23	1:x:551:ASN:H	1.79	0.46
1:y:395:LEU:H	1:y:395:LEU:HG	1.48	0.46
1:z:314:LYS:HE3	1:z:316:PHE:CZ	2.50	0.46
1:z:416:GLU:N	1:z:416:GLU:CD	2.74	0.46
1:1:303:ASN:OD1	1:1:303:ASN:N	2.44	0.46
1:2:450:THR:HG21	1:2:459:ARG:CZ	2.45	0.46
1:2:545:GLN:HE22	1:2:719:VAL:HG12	1.79	0.46
1:5:296:TRP:CG	1:5:613:LEU:HD13	2.50	0.46
1:5:416:GLU:N	1:5:416:GLU:CD	2.74	0.46
1:A:302:ASN:HD21	1:Y:302:ASN:ND2	2.09	0.46
1:A:345:ASP:O	1:A:346:SER:CB	2.54	0.46
1:B:450:THR:HG21	1:B:459:ARG:CZ	2.45	0.46
1:C:285:ASN:O	1:C:617:ILE:HG12	2.16	0.46
1:C:416:GLU:N	1:C:416:GLU:CD	2.74	0.46
1:E:524:ALA:HB3	1:E:571:VAL:HA	1.97	0.46
1:G:269:ASP:O	1:M:432:ARG:NH2	2.47	0.46
1:G:282:PHE:HD2	1:G:313:PHE:HZ	1.63	0.46
1:H:296:TRP:CG	1:H:613:LEU:HD13	2.50	0.46
1:H:434:MET:HB2	1:S:358:HIS:CE1	2.50	0.46
1:I:245:ARG:HG2	1:I:363:PRO:HD2	1.96	0.46
1:I:273:PHE:CG	1:I:273:PHE:O	2.68	0.46
1:I:296:TRP:CG	1:I:613:LEU:HD13	2.50	0.46
1:I:524:ALA:HB3	1:I:571:VAL:HA	1.97	0.46
1:I:571:VAL:HB	1:I:574:GLU:HB3	1.97	0.46
1:I:622:PRO:HG2	1:U:605:VAL:HG11	1.98	0.46
1:J:524:ALA:HB3	1:J:571:VAL:HA	1.97	0.46
1:J:545:GLN:HE22	1:J:719:VAL:HG12	1.79	0.46
1:J:584:GLN:HE22	1:p:486:GLN:CG	2.27	0.46
1:K:482:CYS:HB2	1:K:570:PRO:HG3	1.98	0.46
1:K:617:ILE:HD11	1:K:618:TRP:CZ3	2.50	0.46
1:M:482:CYS:HB2	1:M:570:PRO:HG3	1.98	0.46
1:N:282:PHE:HD2	1:N:313:PHE:HZ	1.62	0.46
1:P:285:ASN:O	1:P:617:ILE:HG12	2.16	0.46
1:Q:571:VAL:HB	1:Q:574:GLU:HB3	1.97	0.46
1:Q:617:ILE:HD11	1:Q:618:TRP:CZ3	2.50	0.46
1:T:429:SER:OG	1:T:431:ASP:OD1	2.24	0.46
1:T:524:ALA:HB3	1:T:571:VAL:HA	1.98	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:V:296:TRP:CG	1:V:613:LEU:HD13	2.50	0.46
1:V:431:ASP:OD2	1:j:513:ARG:NE	2.48	0.46
1:V:482:CYS:HB2	1:V:570:PRO:HG3	1.98	0.46
1:V:571:VAL:HB	1:V:574:GLU:HB3	1.97	0.46
1:X:282:PHE:HD2	1:X:313:PHE:HZ	1.63	0.46
1:X:482:CYS:HB2	1:X:570:PRO:HG3	1.98	0.46
1:Y:545:GLN:HE22	1:Y:719:VAL:HG12	1.79	0.46
1:Y:617:ILE:HD11	1:Y:618:TRP:CZ3	2.50	0.46
1:Z:416:GLU:N	1:Z:416:GLU:CD	2.74	0.46
1:a:605:VAL:HG11	1:v:622:PRO:HG2	1.98	0.46
1:b:243:SER:HB2	1:b:245:ARG:NH1	2.22	0.46
1:b:285:ASN:O	1:b:617:ILE:HG12	2.16	0.46
1:b:482:CYS:HB2	1:b:570:PRO:HG3	1.98	0.46
1:e:371:MET:O	1:e:372:VAL:C	2.56	0.46
1:e:524:ALA:HB3	1:e:571:VAL:HA	1.97	0.46
1:f:285:ASN:O	1:f:617:ILE:HG12	2.16	0.46
1:f:482:CYS:HB2	1:f:570:PRO:HG3	1.98	0.46
1:g:282:PHE:HD2	1:g:313:PHE:HZ	1.62	0.46
1:g:416:GLU:N	1:g:416:GLU:CD	2.74	0.46
1:g:482:CYS:HB2	1:g:570:PRO:HG3	1.98	0.46
1:h:482:CYS:HB2	1:h:570:PRO:HG3	1.98	0.46
1:h:524:ALA:HB3	1:h:571:VAL:HA	1.97	0.46
1:i:282:PHE:HD2	1:i:313:PHE:HZ	1.62	0.46
1:i:316:PHE:HB2	1:i:677:GLN:CB	2.44	0.46
1:k:296:TRP:CG	1:k:613:LEU:HD13	2.50	0.46
1:l:345:ASP:O	1:l:346:SER:CB	2.54	0.46
1:m:282:PHE:HD2	1:m:313:PHE:HZ	1.63	0.46
1:n:550:THR:HG23	1:n:551:ASN:H	1.79	0.46
1:n:617:ILE:HD11	1:n:618:TRP:CZ3	2.50	0.46
1:o:296:TRP:CG	1:o:613:LEU:HD13	2.50	0.46
1:o:482:CYS:HB2	1:o:570:PRO:HG3	1.98	0.46
1:o:666:PHE:HD2	1:q:369:VAL:HG13	1.80	0.46
1:r:350:LEU:HD21	1:r:398:PHE:HE2	1.80	0.46
1:r:358:HIS:CE1	1:5:434:MET:HB2	2.50	0.46
1:u:524:ALA:HB3	1:u:571:VAL:HA	1.97	0.46
1:y:296:TRP:CG	1:y:613:LEU:HD13	2.50	0.46
1:4:482:CYS:HB2	1:4:570:PRO:HG3	1.98	0.46
1:4:617:ILE:HD11	1:4:618:TRP:CZ3	2.50	0.46
1:6:350:LEU:HD22	1:6:395:LEU:HD21	1.90	0.46
1:6:387:VAL:HG12	1:6:388:GLY:N	2.21	0.46
1:7:617:ILE:HD11	1:7:618:TRP:CZ3	2.50	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:8:416:GLU:N	1:8:416:GLU:CD	2.74	0.46
1:D:524:ALA:HB3	1:D:571:VAL:HA	1.97	0.46
1:E:431:ASP:OD2	1:l:513:ARG:NE	2.48	0.46
1:F:245:ARG:HG2	1:F:363:PRO:HD2	1.96	0.46
1:F:310:ARG:NE	1:F:683:GLU:OE1	2.41	0.46
1:F:450:THR:HG21	1:F:459:ARG:CZ	2.45	0.46
1:G:296:TRP:CG	1:G:613:LEU:HD13	2.50	0.46
1:H:273:PHE:O	1:H:273:PHE:CG	2.68	0.46
1:H:431:ASP:OD2	1:S:513:ARG:NE	2.48	0.46
1:H:692:LYS:NZ	1:S:397:TYR:HE2	2.13	0.46
1:J:296:TRP:CG	1:J:613:LEU:HD13	2.50	0.46
1:M:617:ILE:HD11	1:M:618:TRP:CZ3	2.50	0.46
1:N:316:PHE:HB2	1:N:677:GLN:CB	2.44	0.46
1:O:482:CYS:HB2	1:O:570:PRO:HG3	1.98	0.46
1:O:617:ILE:HD11	1:O:618:TRP:CZ3	2.50	0.46
1:P:482:CYS:HB2	1:P:570:PRO:HG3	1.98	0.46
1:P:524:ALA:HB3	1:P:571:VAL:HA	1.97	0.46
1:P:550:THR:HG23	1:P:551:ASN:H	1.79	0.46
1:T:285:ASN:O	1:T:617:ILE:HG12	2.16	0.46
1:U:285:ASN:O	1:U:617:ILE:HG12	2.16	0.46
1:V:350:LEU:HD21	1:V:398:PHE:HE2	1.80	0.46
1:W:285:ASN:O	1:W:617:ILE:HG12	2.16	0.46
1:X:296:TRP:CG	1:X:613:LEU:HD13	2.50	0.46
1:X:416:GLU:N	1:X:416:GLU:CD	2.74	0.46
1:Y:314:LYS:HE3	1:Y:316:PHE:CZ	2.50	0.46
1:a:273:PHE:O	1:a:273:PHE:CG	2.68	0.46
1:b:350:LEU:HD21	1:b:398:PHE:HE2	1.80	0.46
1:c:524:ALA:HB3	1:c:571:VAL:HA	1.97	0.46
1:d:617:ILE:HD11	1:d:618:TRP:CZ3	2.50	0.46
1:e:273:PHE:O	1:e:273:PHE:CG	2.68	0.46
1:g:285:ASN:O	1:g:617:ILE:HG12	2.16	0.46
1:h:617:ILE:HD11	1:h:618:TRP:CZ3	2.50	0.46
1:i:285:ASN:O	1:i:617:ILE:HG12	2.16	0.46
1:i:550:THR:HG23	1:i:551:ASN:H	1.79	0.46
1:j:282:PHE:HD2	1:j:313:PHE:HZ	1.63	0.46
1:j:285:ASN:O	1:j:617:ILE:HG12	2.16	0.46
1:j:434:MET:HB2	1:2:358:HIS:CE1	2.51	0.46
1:j:482:CYS:HB2	1:j:570:PRO:HG3	1.98	0.46
1:j:524:ALA:HB3	1:j:571:VAL:HA	1.97	0.46
1:k:524:ALA:HB3	1:k:571:VAL:HA	1.97	0.46
1:l:482:CYS:HB2	1:l:570:PRO:HG3	1.98	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:l:617:ILE:HD11	1:l:618:TRP:CZ3	2.50	0.46
1:m:285:ASN:O	1:m:617:ILE:HG12	2.16	0.46
1:m:314:LYS:HE3	1:m:316:PHE:CZ	2.50	0.46
1:n:282:PHE:HD2	1:n:313:PHE:HZ	1.63	0.46
1:o:285:ASN:O	1:o:617:ILE:HG12	2.16	0.46
1:p:482:CYS:HB2	1:p:570:PRO:HG3	1.98	0.46
1:t:282:PHE:HD2	1:t:313:PHE:HZ	1.63	0.46
1:u:245:ARG:HG2	1:u:363:PRO:HD2	1.96	0.46
1:y:275:TYR:CE2	1:y:392:PHE:HB3	2.49	0.46
1:y:450:THR:HG21	1:y:459:ARG:CZ	2.45	0.46
1:z:285:ASN:O	1:z:617:ILE:HG12	2.16	0.46
1:1:450:THR:HG21	1:1:459:ARG:CZ	2.45	0.46
1:2:296:TRP:CG	1:2:613:LEU:HD13	2.50	0.46
1:2:524:ALA:HB3	1:2:571:VAL:HA	1.98	0.46
1:3:282:PHE:HD2	1:3:313:PHE:HZ	1.62	0.46
1:5:245:ARG:HG2	1:5:363:PRO:HD2	1.96	0.46
1:5:273:PHE:O	1:5:273:PHE:CG	2.68	0.46
1:6:273:PHE:O	1:6:273:PHE:CG	2.68	0.46
1:6:285:ASN:O	1:6:617:ILE:HG12	2.16	0.46
1:7:273:PHE:O	1:7:273:PHE:CG	2.68	0.46
1:8:571:VAL:HB	1:8:574:GLU:HB3	1.97	0.46
1:B:245:ARG:HG2	1:B:363:PRO:HD2	1.96	0.46
1:B:397:TYR:HE2	1:6:692:LYS:NZ	2.14	0.46
1:C:282:PHE:HD2	1:C:313:PHE:HZ	1.63	0.46
1:C:349:GLN:HE21	1:C:349:GLN:CA	2.04	0.46
1:D:285:ASN:O	1:D:617:ILE:HG12	2.16	0.46
1:D:296:TRP:CG	1:D:613:LEU:HD13	2.50	0.46
1:D:310:ARG:NE	1:D:683:GLU:OE1	2.41	0.46
1:D:431:ASP:OD2	1:q:513:ARG:NE	2.49	0.46
1:D:550:THR:HG23	1:D:551:ASN:H	1.79	0.46
1:F:416:GLU:N	1:F:416:GLU:CD	2.74	0.46
1:G:285:ASN:O	1:G:617:ILE:HG12	2.16	0.46
1:G:358:HIS:CE1	1:M:434:MET:HB2	2.51	0.46
1:G:513:ARG:NE	1:M:431:ASP:OD2	2.48	0.46
1:H:269:ASP:O	1:g:432:ARG:NH2	2.47	0.46
1:H:605:VAL:HG11	1:S:622:PRO:HG2	1.97	0.46
1:I:350:LEU:HD21	1:I:398:PHE:HE2	1.80	0.46
1:J:622:PRO:HG2	1:P:605:VAL:HG11	1.97	0.46
1:K:285:ASN:O	1:K:617:ILE:HG12	2.16	0.46
1:L:285:ASN:O	1:L:617:ILE:HG12	2.16	0.46
1:N:285:ASN:O	1:N:617:ILE:HG12	2.16	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:O:622:PRO:HG2	1:w:605:VAL:HG11	1.98	0.46
1:R:486:GLN:CG	1:k:584:GLN:HE22	2.26	0.46
1:S:571:VAL:HB	1:S:574:GLU:HB3	1.97	0.46
1:T:273:PHE:O	1:T:273:PHE:CG	2.68	0.46
1:W:273:PHE:O	1:W:273:PHE:CG	2.68	0.46
1:W:692:LYS:NZ	1:1:397:TYR:HE2	2.14	0.46
1:X:524:ALA:HB3	1:X:571:VAL:HA	1.97	0.46
1:Y:273:PHE:O	1:Y:273:PHE:CG	2.68	0.46
1:Y:482:CYS:HB2	1:Y:570:PRO:HG3	1.98	0.46
1:b:571:VAL:HB	1:b:574:GLU:HB3	1.97	0.46
1:c:371:MET:O	1:c:372:VAL:C	2.56	0.46
1:c:622:PRO:HG2	1:v:605:VAL:HG11	1.98	0.46
1:d:282:PHE:HD2	1:d:313:PHE:HZ	1.63	0.46
1:d:550:THR:HG23	1:d:551:ASN:H	1.79	0.46
1:f:350:LEU:HD21	1:f:398:PHE:HE2	1.80	0.46
1:h:432:ARG:NH2	1:t:269:ASP:O	2.47	0.46
1:j:605:VAL:HG11	1:2:622:PRO:HG2	1.98	0.46
1:k:285:ASN:O	1:k:617:ILE:HG12	2.16	0.46
1:m:273:PHE:O	1:m:273:PHE:CG	2.68	0.46
1:o:416:GLU:N	1:o:416:GLU:CD	2.74	0.46
1:p:350:LEU:HD21	1:p:398:PHE:HE2	1.80	0.46
1:r:416:GLU:N	1:r:416:GLU:CD	2.74	0.46
1:s:285:ASN:O	1:s:617:ILE:HG12	2.16	0.46
1:s:349:GLN:NE2	1:s:349:GLN:CA	2.73	0.46
1:s:524:ALA:HB3	1:s:571:VAL:HA	1.97	0.46
1:s:605:VAL:HG11	1:u:622:PRO:HG2	1.98	0.46
1:t:285:ASN:O	1:t:617:ILE:HG12	2.16	0.46
1:t:571:VAL:HB	1:t:574:GLU:HB3	1.97	0.46
1:u:296:TRP:CG	1:u:613:LEU:HD13	2.50	0.46
1:w:524:ALA:HB3	1:w:571:VAL:HA	1.97	0.46
1:x:617:ILE:HD11	1:x:618:TRP:CZ3	2.50	0.46
1:y:416:GLU:N	1:y:416:GLU:CD	2.74	0.46
1:1:245:ARG:HG2	1:1:363:PRO:HD2	1.96	0.46
1:3:273:PHE:O	1:3:273:PHE:CG	2.68	0.46
1:3:482:CYS:HB2	1:3:570:PRO:HG3	1.98	0.46
1:4:285:ASN:O	1:4:617:ILE:HG12	2.16	0.46
1:5:550:THR:HG23	1:5:551:ASN:H	1.79	0.46
1:7:545:GLN:HE22	1:7:719:VAL:HG12	1.79	0.46
1:A:296:TRP:CG	1:A:613:LEU:HD13	2.50	0.46
1:B:285:ASN:O	1:B:617:ILE:HG12	2.16	0.46
1:B:287:PHE:CE2	1:B:617:ILE:HG22	2.51	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:431:ASP:OD2	1:5:513:ARG:NE	2.48	0.46
1:C:482:CYS:HB2	1:C:570:PRO:HG3	1.98	0.46
1:E:285:ASN:O	1:E:617:ILE:HG12	2.16	0.46
1:E:605:VAL:HG11	1:l:622:PRO:HG2	1.98	0.46
1:F:285:ASN:O	1:F:617:ILE:HG12	2.16	0.46
1:F:482:CYS:HB2	1:F:570:PRO:HG3	1.98	0.46
1:H:243:SER:HB2	1:H:245:ARG:NH1	2.22	0.46
1:J:350:LEU:HD21	1:J:398:PHE:HE2	1.80	0.46
1:J:358:HIS:CE1	1:P:434:MET:HB2	2.51	0.46
1:K:358:HIS:CE1	1:1:434:MET:HB2	2.51	0.46
1:N:605:VAL:HG11	1:U:622:PRO:HG2	1.98	0.46
1:O:287:PHE:CE2	1:O:617:ILE:HG22	2.51	0.46
1:O:513:ARG:NE	1:w:431:ASP:OD2	2.48	0.46
1:P:282:PHE:HD2	1:P:313:PHE:HZ	1.63	0.46
1:Q:287:PHE:CE2	1:Q:617:ILE:HG22	2.51	0.46
1:Q:605:VAL:HG11	1:Y:622:PRO:HG2	1.98	0.46
1:S:350:LEU:HD21	1:S:398:PHE:HE2	1.80	0.46
1:S:416:GLU:N	1:S:416:GLU:CD	2.74	0.46
1:X:285:ASN:O	1:X:617:ILE:HG12	2.16	0.46
1:a:434:MET:HB2	1:v:358:HIS:CE1	2.51	0.46
1:c:273:PHE:O	1:c:273:PHE:CG	2.68	0.46
1:f:243:SER:HB2	1:f:245:ARG:NH1	2.22	0.46
1:f:524:ALA:HB3	1:f:571:VAL:HA	1.97	0.46
1:h:434:MET:HB2	1:t:358:HIS:CE1	2.51	0.46
1:i:513:ARG:NE	1:u:431:ASP:OD2	2.48	0.46
1:k:287:PHE:CE2	1:k:617:ILE:HG22	2.51	0.46
1:k:310:ARG:NE	1:k:683:GLU:OE1	2.41	0.46
1:k:550:THR:HG23	1:k:551:ASN:H	1.79	0.46
1:r:296:TRP:CG	1:r:613:LEU:HD13	2.50	0.46
1:v:296:TRP:CG	1:v:613:LEU:HD13	2.50	0.46
1:w:285:ASN:O	1:w:617:ILE:HG12	2.16	0.46
1:y:285:ASN:O	1:y:617:ILE:HG12	2.16	0.46
1:y:287:PHE:CE2	1:y:617:ILE:HG22	2.51	0.46
1:y:482:CYS:HB2	1:y:570:PRO:HG3	1.98	0.46
1:z:524:ALA:HB3	1:z:571:VAL:HA	1.97	0.46
1:1:273:PHE:O	1:1:273:PHE:CG	2.68	0.46
1:1:285:ASN:O	1:1:617:ILE:HG12	2.16	0.46
1:1:287:PHE:CE2	1:1:617:ILE:HG22	2.51	0.46
1:2:350:LEU:HD21	1:2:398:PHE:HE2	1.80	0.46
1:4:416:GLU:N	1:4:416:GLU:CD	2.74	0.46
1:4:605:VAL:HG11	1:6:622:PRO:HG2	1.98	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:5:243:SER:HB2	1:5:245:ARG:NH1	2.21	0.46
1:7:482:CYS:HB2	1:7:570:PRO:HG3	1.98	0.46
1:8:524:ALA:HB3	1:8:571:VAL:HA	1.98	0.46
1:A:285:ASN:O	1:A:617:ILE:HG12	2.16	0.46
1:A:350:LEU:HD21	1:A:398:PHE:HE2	1.80	0.46
1:A:545:GLN:HE22	1:A:719:VAL:HG12	1.79	0.46
1:B:273:PHE:O	1:B:273:PHE:CG	2.68	0.46
1:B:482:CYS:HB2	1:B:570:PRO:HG3	1.98	0.46
1:C:287:PHE:CE2	1:C:617:ILE:HG22	2.51	0.46
1:C:432:ARG:NH2	1:5:269:ASP:O	2.47	0.46
1:D:287:PHE:CE2	1:D:617:ILE:HG22	2.51	0.46
1:D:482:CYS:HB2	1:D:570:PRO:HG3	1.98	0.46
1:F:431:ASP:OD2	1:b:513:ARG:NE	2.48	0.46
1:H:513:ARG:NE	1:g:431:ASP:OD2	2.48	0.46
1:J:282:PHE:HD2	1:J:313:PHE:HZ	1.62	0.46
1:K:350:LEU:HD22	1:K:395:LEU:HD21	1.90	0.46
1:M:480:GLY:HA3	1:M:606:TRP:HB3	1.98	0.46
1:R:416:GLU:N	1:R:416:GLU:CD	2.74	0.46
1:R:434:MET:HB2	1:m:358:HIS:CE1	2.51	0.46
1:S:480:GLY:HA3	1:S:606:TRP:HB3	1.98	0.46
1:T:287:PHE:CE2	1:T:617:ILE:HG22	2.51	0.46
1:W:480:GLY:HA3	1:W:606:TRP:HB3	1.98	0.46
1:W:482:CYS:HB2	1:W:570:PRO:HG3	1.98	0.46
1:Y:350:LEU:HD21	1:Y:398:PHE:HE2	1.80	0.46
1:a:282:PHE:HD2	1:a:313:PHE:HZ	1.63	0.46
1:b:273:PHE:O	1:b:273:PHE:CG	2.68	0.46
1:b:287:PHE:CE2	1:b:617:ILE:HG22	2.51	0.46
1:b:431:ASP:OD2	1:n:513:ARG:NE	2.48	0.46
1:b:524:ALA:HB3	1:b:571:VAL:HA	1.98	0.46
1:d:513:ARG:NE	1:f:431:ASP:OD2	2.48	0.46
1:f:273:PHE:O	1:f:273:PHE:CG	2.68	0.46
1:f:287:PHE:CE2	1:f:617:ILE:HG22	2.51	0.46
1:f:416:GLU:N	1:f:416:GLU:CD	2.74	0.46
1:f:571:VAL:HB	1:f:574:GLU:HB3	1.97	0.46
1:g:287:PHE:CE2	1:g:617:ILE:HG22	2.51	0.46
1:g:550:THR:HG23	1:g:551:ASN:H	1.79	0.46
1:h:431:ASP:OD2	1:t:513:ARG:NE	2.48	0.46
1:h:480:GLY:HA3	1:h:606:TRP:HB3	1.98	0.46
1:k:482:CYS:HB2	1:k:570:PRO:HG3	1.98	0.46
1:l:287:PHE:CE2	1:l:617:ILE:HG22	2.51	0.46
1:o:524:ALA:HB3	1:o:571:VAL:HA	1.98	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:q:416:GLU:N	1:q:416:GLU:CD	2.74	0.46
1:r:480:GLY:HA3	1:r:606:TRP:HB3	1.98	0.46
1:v:285:ASN:O	1:v:617:ILE:HG12	2.16	0.46
1:v:287:PHE:CE2	1:v:617:ILE:HG22	2.51	0.46
1:v:345:ASP:O	1:v:346:SER:CB	2.54	0.46
1:x:287:PHE:CE2	1:x:617:ILE:HG22	2.51	0.46
1:x:605:VAL:HG11	1:7:622:PRO:HG2	1.98	0.46
1:1:482:CYS:HB2	1:1:570:PRO:HG3	1.98	0.46
1:4:310:ARG:NE	1:4:683:GLU:OE1	2.41	0.46
1:7:350:LEU:HD21	1:7:398:PHE:HE2	1.80	0.46
1:A:287:PHE:CE2	1:A:617:ILE:HG22	2.51	0.46
1:B:434:MET:HB2	1:4:358:HIS:CE1	2.51	0.46
1:C:605:VAL:HG11	1:5:622:PRO:HG2	1.98	0.46
1:E:358:HIS:CE1	1:X:434:MET:HB2	2.51	0.46
1:E:513:ARG:NE	1:X:431:ASP:OD2	2.48	0.46
1:F:395:LEU:H	1:F:395:LEU:HG	1.48	0.46
1:G:350:LEU:HD21	1:G:398:PHE:HE2	1.80	0.46
1:G:571:VAL:HB	1:G:574:GLU:HB3	1.97	0.46
1:G:622:PRO:HG2	1:M:605:VAL:HG11	1.98	0.46
1:H:285:ASN:O	1:H:617:ILE:HG12	2.16	0.46
1:I:605:VAL:HG11	1:N:622:PRO:HG2	1.98	0.46
1:J:434:MET:HB2	1:p:358:HIS:CE1	2.51	0.46
1:J:571:VAL:HB	1:J:574:GLU:HB3	1.97	0.46
1:L:524:ALA:HB3	1:L:571:VAL:HA	1.98	0.46
1:M:287:PHE:CE2	1:M:617:ILE:HG22	2.51	0.46
1:O:605:VAL:HG11	1:o:622:PRO:HG2	1.98	0.46
1:P:480:GLY:HA3	1:P:606:TRP:HB3	1.98	0.46
1:P:622:PRO:HG2	1:p:605:VAL:HG11	1.98	0.46
1:Q:450:THR:HG21	1:Q:459:ARG:CZ	2.45	0.46
1:R:431:ASP:OD2	1:m:513:ARG:NE	2.48	0.46
1:S:482:CYS:HB2	1:S:570:PRO:HG3	1.98	0.46
1:U:349:GLN:NE2	1:U:349:GLN:CA	2.73	0.46
1:U:524:ALA:HB3	1:U:571:VAL:HA	1.98	0.46
1:X:622:PRO:HG2	1:l:605:VAL:HG11	1.98	0.46
1:Z:434:MET:HB2	1:h:358:HIS:CE1	2.51	0.46
1:Z:524:ALA:HB3	1:Z:571:VAL:HA	1.98	0.46
1:a:302:ASN:HD21	1:6:302:ASN:ND2	2.09	0.46
1:a:350:LEU:HD22	1:a:395:LEU:HD21	1.90	0.46
1:a:482:CYS:HB2	1:a:570:PRO:HG3	1.98	0.46
1:b:416:GLU:N	1:b:416:GLU:CD	2.74	0.46
1:b:434:MET:HB2	1:n:358:HIS:CE1	2.51	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:b:605:VAL:HG11	1:n:622:PRO:HG2	1.98	0.46
1:d:480:GLY:HA3	1:d:606:TRP:HB3	1.98	0.46
1:i:605:VAL:HG11	1:s:622:PRO:HG2	1.98	0.46
1:i:622:PRO:HG2	1:u:605:VAL:HG11	1.98	0.46
1:j:480:GLY:HA3	1:j:606:TRP:HB3	1.98	0.46
1:k:350:LEU:HD22	1:k:395:LEU:HD21	1.90	0.46
1:m:287:PHE:CE2	1:m:617:ILE:HG22	2.51	0.46
1:n:285:ASN:O	1:n:617:ILE:HG12	2.16	0.46
1:n:524:ALA:HB3	1:n:571:VAL:HA	1.97	0.46
1:o:431:ASP:OD2	1:w:513:ARG:NE	2.48	0.46
1:r:350:LEU:HD22	1:r:395:LEU:HD21	1.90	0.46
1:r:571:VAL:HB	1:r:574:GLU:HB3	1.97	0.46
1:r:622:PRO:HG2	1:5:605:VAL:HG11	1.97	0.46
1:w:482:CYS:HB2	1:w:570:PRO:HG3	1.98	0.46
1:x:482:CYS:HB2	1:x:570:PRO:HG3	1.98	0.46
1:2:282:PHE:HD2	1:2:313:PHE:HZ	1.62	0.46
1:3:350:LEU:HD22	1:3:395:LEU:HD21	1.90	0.46
1:4:524:ALA:HB3	1:4:571:VAL:HA	1.97	0.46
1:5:285:ASN:O	1:5:617:ILE:HG12	2.16	0.46
1:6:480:GLY:HA3	1:6:606:TRP:HB3	1.98	0.46
1:A:605:VAL:HG11	1:e:622:PRO:HG2	1.98	0.46
1:C:550:THR:HG23	1:C:551:ASN:H	1.79	0.46
1:D:692:LYS:NZ	1:q:397:TYR:HE2	2.13	0.46
1:E:480:GLY:HA3	1:E:606:TRP:HB3	1.98	0.46
1:E:482:CYS:HB2	1:E:570:PRO:HG3	1.98	0.46
1:F:287:PHE:CE2	1:F:617:ILE:HG22	2.51	0.46
1:J:397:TYR:HE2	1:P:692:LYS:NZ	2.14	0.46
1:J:482:CYS:HB2	1:J:570:PRO:HG3	1.98	0.46
1:K:397:TYR:HE2	1:1:692:LYS:NZ	2.14	0.46
1:K:605:VAL:HG11	1:W:622:PRO:HG2	1.98	0.46
1:O:692:LYS:NZ	1:o:397:TYR:HE2	2.14	0.46
1:Q:269:ASP:OD1	1:Q:270:ASN:N	2.49	0.46
1:Q:285:ASN:O	1:Q:617:ILE:HG12	2.16	0.46
1:Q:480:GLY:HA3	1:Q:606:TRP:HB3	1.98	0.46
1:Q:482:CYS:HB2	1:Q:570:PRO:HG3	1.98	0.46
1:R:287:PHE:CE2	1:R:617:ILE:HG22	2.51	0.46
1:R:358:HIS:CE1	1:k:434:MET:HB2	2.51	0.46
1:R:692:LYS:NZ	1:m:397:TYR:HE2	2.14	0.46
1:S:296:TRP:CG	1:S:613:LEU:HD13	2.50	0.46
1:S:605:VAL:HG11	1:g:622:PRO:HG2	1.97	0.46
1:T:269:ASP:OD1	1:T:270:ASN:N	2.49	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:T:416:GLU:N	1:T:416:GLU:CD	2.74	0.46
1:V:350:LEU:HD22	1:V:395:LEU:HD21	1.90	0.46
1:V:387:VAL:HG12	1:V:388:GLY:N	2.22	0.46
1:V:605:VAL:HG11	1:j:622:PRO:HG2	1.98	0.46
1:X:287:PHE:CE2	1:X:617:ILE:HG22	2.51	0.46
1:X:397:TYR:HE2	1:l:692:LYS:NZ	2.14	0.46
1:Y:285:ASN:O	1:Y:617:ILE:HG12	2.16	0.46
1:Y:431:ASP:O	1:Y:475:ARG:NH2	2.48	0.46
1:Z:692:LYS:NZ	1:h:397:TYR:HE2	2.14	0.46
1:a:480:GLY:HA3	1:a:606:TRP:HB3	1.98	0.46
1:c:350:LEU:HD21	1:c:398:PHE:HE2	1.80	0.46
1:c:358:HIS:CE1	1:v:434:MET:HB2	2.51	0.46
1:d:285:ASN:O	1:d:617:ILE:HG12	2.16	0.46
1:d:296:TRP:CG	1:d:613:LEU:HD13	2.50	0.46
1:d:622:PRO:HG2	1:f:605:VAL:HG11	1.98	0.46
1:f:513:ARG:NE	1:y:431:ASP:OD2	2.48	0.46
1:h:287:PHE:CE2	1:h:617:ILE:HG22	2.51	0.46
1:h:605:VAL:HG11	1:t:622:PRO:HG2	1.98	0.46
1:k:431:ASP:O	1:k:475:ARG:NH2	2.48	0.46
1:m:269:ASP:OD1	1:m:270:ASN:N	2.49	0.46
1:o:287:PHE:CE2	1:o:617:ILE:HG22	2.51	0.46
1:r:482:CYS:HB2	1:r:570:PRO:HG3	1.98	0.46
1:t:480:GLY:HA3	1:t:606:TRP:HB3	1.98	0.46
1:t:482:CYS:HB2	1:t:570:PRO:HG3	1.98	0.46
1:u:482:CYS:HA	1:u:523:MET:SD	2.56	0.46
1:v:350:LEU:HD21	1:v:398:PHE:HE2	1.80	0.46
1:v:545:GLN:HE22	1:v:719:VAL:HG12	1.79	0.46
1:w:243:SER:HB2	1:w:245:ARG:NH1	2.22	0.46
1:w:273:PHE:O	1:w:273:PHE:CG	2.68	0.46
1:w:296:TRP:CG	1:w:613:LEU:HD13	2.50	0.46
1:w:416:GLU:N	1:w:416:GLU:CD	2.74	0.46
1:x:269:ASP:OD1	1:x:270:ASN:N	2.49	0.46
1:x:450:THR:HG21	1:x:459:ARG:CZ	2.45	0.46
1:2:482:CYS:HB2	1:2:570:PRO:HG3	1.98	0.46
1:2:571:VAL:HB	1:2:574:GLU:HB3	1.97	0.46
1:3:480:GLY:HA3	1:3:606:TRP:HB3	1.98	0.46
1:4:350:LEU:HD22	1:4:395:LEU:HD21	1.90	0.46
1:4:426:HIS:HD2	1:4:735:LEU:HA	1.82	0.46
1:6:482:CYS:HB2	1:6:570:PRO:HG3	1.98	0.46
1:7:431:ASP:O	1:7:475:ARG:NH2	2.48	0.46
1:B:692:LYS:NZ	1:4:397:TYR:HE2	2.14	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:622:PRO:HG2	1:r:605:VAL:HG11	1.97	0.45
1:D:431:ASP:O	1:D:475:ARG:NH2	2.48	0.45
1:D:480:GLY:HA3	1:D:606:TRP:HB3	1.98	0.45
1:E:416:GLU:N	1:E:416:GLU:CD	2.74	0.45
1:E:622:PRO:HG2	1:X:605:VAL:HG11	1.98	0.45
1:F:524:ALA:HB3	1:F:571:VAL:HA	1.98	0.45
1:G:302:ASN:ND2	1:L:302:ASN:HD21	2.09	0.45
1:G:482:CYS:HB2	1:G:570:PRO:HG3	1.98	0.45
1:H:287:PHE:CE2	1:H:617:ILE:HG22	2.51	0.45
1:H:358:HIS:CE1	1:g:434:MET:HB2	2.51	0.45
1:H:524:ALA:HB3	1:H:571:VAL:HA	1.97	0.45
1:H:622:PRO:HG2	1:g:605:VAL:HG11	1.98	0.45
1:I:282:PHE:HD2	1:I:313:PHE:HZ	1.63	0.45
1:I:482:CYS:HA	1:I:523:MET:SD	2.57	0.45
1:J:302:ASN:ND2	1:M:302:ASN:HD21	2.10	0.45
1:K:310:ARG:NE	1:K:683:GLU:OE1	2.41	0.45
1:K:524:ALA:HB3	1:K:571:VAL:HA	1.98	0.45
1:M:358:HIS:CE1	1:8:434:MET:HB2	2.51	0.45
1:M:397:TYR:HE2	1:8:692:LYS:NZ	2.14	0.45
1:O:434:MET:HB2	1:o:358:HIS:CE1	2.51	0.45
1:P:302:ASN:ND2	1:b:302:ASN:HD21	2.09	0.45
1:S:692:LYS:NZ	1:g:397:TYR:HE2	2.14	0.45
1:U:482:CYS:HB2	1:U:570:PRO:HG3	1.98	0.45
1:V:287:PHE:CE2	1:V:617:ILE:HG22	2.51	0.45
1:X:358:HIS:CE1	1:l:434:MET:HB2	2.51	0.45
1:Y:269:ASP:OD1	1:Y:270:ASN:N	2.49	0.45
1:Y:426:HIS:HD2	1:Y:735:LEU:HA	1.82	0.45
1:a:285:ASN:O	1:a:617:ILE:HG12	2.16	0.45
1:a:711:ASP:HB3	1:a:723:PRO:HG3	1.99	0.45
1:d:257:TYR:O	1:j:718:GLY:HA2	2.16	0.45
1:d:358:HIS:CE1	1:f:434:MET:HB2	2.51	0.45
1:d:524:ALA:HB3	1:d:571:VAL:HA	1.97	0.45
1:e:350:LEU:HD21	1:e:398:PHE:HE2	1.80	0.45
1:g:711:ASP:HB3	1:g:723:PRO:HG3	1.98	0.45
1:h:269:ASP:OD1	1:h:270:ASN:N	2.49	0.45
1:i:692:LYS:NZ	1:s:397:TYR:HE2	2.14	0.45
1:j:269:ASP:OD1	1:j:270:ASN:N	2.49	0.45
1:k:480:GLY:HA3	1:k:606:TRP:HB3	1.98	0.45
1:k:718:GLY:HA2	1:y:257:TYR:O	2.16	0.45
1:n:269:ASP:OD1	1:n:270:ASN:N	2.49	0.45
1:n:296:TRP:CG	1:n:613:LEU:HD13	2.50	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:n:480:GLY:HA3	1:n:606:TRP:HB3	1.98	0.45
1:q:287:PHE:CE2	1:q:617:ILE:HG22	2.51	0.45
1:t:350:LEU:HD21	1:t:398:PHE:HE2	1.80	0.45
1:u:282:PHE:HD2	1:u:313:PHE:HZ	1.63	0.45
1:u:711:ASP:HB3	1:u:723:PRO:HG3	1.98	0.45
1:w:480:GLY:HA3	1:w:606:TRP:HB3	1.98	0.45
1:x:285:ASN:O	1:x:617:ILE:HG12	2.16	0.45
1:x:480:GLY:HA3	1:x:606:TRP:HB3	1.98	0.45
1:x:711:ASP:HB3	1:x:723:PRO:HG3	1.98	0.45
1:y:524:ALA:HB3	1:y:571:VAL:HA	1.97	0.45
1:3:285:ASN:O	1:3:617:ILE:HG12	2.16	0.45
1:3:711:ASP:HB3	1:3:723:PRO:HG3	1.99	0.45
1:4:434:MET:HB2	1:6:358:HIS:CE1	2.51	0.45
1:4:482:CYS:HA	1:4:523:MET:SD	2.57	0.45
1:7:285:ASN:O	1:7:617:ILE:HG12	2.16	0.45
1:A:358:HIS:CE1	1:3:434:MET:HB2	2.52	0.45
1:A:622:PRO:HG2	1:3:605:VAL:HG11	1.98	0.45
1:C:434:MET:HB2	1:5:358:HIS:CE1	2.51	0.45
1:C:480:GLY:HA3	1:C:606:TRP:HB3	1.98	0.45
1:D:269:ASP:OD1	1:D:270:ASN:N	2.49	0.45
1:D:397:TYR:HE2	1:T:692:LYS:NZ	2.14	0.45
1:D:482:CYS:HA	1:D:523:MET:SD	2.57	0.45
1:D:718:GLY:HA2	1:F:257:TYR:O	2.16	0.45
1:E:243:SER:HB2	1:E:245:ARG:NH1	2.22	0.45
1:E:273:PHE:CG	1:E:273:PHE:O	2.68	0.45
1:E:296:TRP:CG	1:E:613:LEU:HD13	2.50	0.45
1:E:571:VAL:HB	1:E:574:GLU:HB3	1.97	0.45
1:F:426:HIS:HD2	1:F:735:LEU:HA	1.82	0.45
1:G:269:ASP:OD1	1:G:270:ASN:N	2.50	0.45
1:G:429:SER:OG	1:G:431:ASP:OD1	2.23	0.45
1:G:480:GLY:HA3	1:G:606:TRP:HB3	1.98	0.45
1:G:482:CYS:HA	1:G:523:MET:SD	2.57	0.45
1:I:426:HIS:HD2	1:I:735:LEU:HA	1.82	0.45
1:K:269:ASP:OD1	1:K:270:ASN:N	2.50	0.45
1:K:426:HIS:HD2	1:K:735:LEU:HA	1.82	0.45
1:K:482:CYS:HA	1:K:523:MET:SD	2.57	0.45
1:M:269:ASP:OD1	1:M:270:ASN:N	2.49	0.45
1:N:692:LYS:NZ	1:U:397:TYR:HE2	2.14	0.45
1:O:269:ASP:OD1	1:O:270:ASN:N	2.49	0.45
1:O:711:ASP:HB3	1:O:723:PRO:HG3	1.99	0.45
1:P:273:PHE:O	1:P:273:PHE:CG	2.68	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:R:605:VAL:HG11	1:m:622:PRO:HG2	1.98	0.45
1:S:350:LEU:HD22	1:S:395:LEU:HD21	1.90	0.45
1:V:285:ASN:O	1:V:617:ILE:HG12	2.16	0.45
1:V:358:HIS:CE1	1:2:434:MET:HB2	2.52	0.45
1:W:302:ASN:ND2	1:3:302:ASN:HD21	2.09	0.45
1:Z:358:HIS:CE1	1:t:434:MET:HB2	2.51	0.45
1:a:287:PHE:CE2	1:a:617:ILE:HG22	2.51	0.45
1:b:269:ASP:OD1	1:b:270:ASN:N	2.49	0.45
1:d:269:ASP:OD1	1:d:270:ASN:N	2.50	0.45
1:d:431:ASP:O	1:d:475:ARG:NH2	2.48	0.45
1:e:431:ASP:O	1:e:475:ARG:NH2	2.48	0.45
1:f:269:ASP:OD1	1:f:270:ASN:N	2.49	0.45
1:g:482:CYS:HA	1:g:523:MET:SD	2.57	0.45
1:i:358:HIS:CE1	1:u:434:MET:HB2	2.51	0.45
1:k:269:ASP:OD1	1:k:270:ASN:N	2.49	0.45
1:k:482:CYS:HA	1:k:523:MET:SD	2.57	0.45
1:l:711:ASP:HB3	1:l:723:PRO:HG3	1.99	0.45
1:n:431:ASP:O	1:n:475:ARG:NH2	2.48	0.45
1:o:426:HIS:HD2	1:o:735:LEU:HA	1.82	0.45
1:o:434:MET:HB2	1:w:358:HIS:CE1	2.51	0.45
1:o:482:CYS:HA	1:o:523:MET:SD	2.57	0.45
1:p:285:ASN:O	1:p:617:ILE:HG12	2.16	0.45
1:t:269:ASP:OD1	1:t:270:ASN:N	2.50	0.45
1:t:302:ASN:ND2	1:z:302:ASN:HD21	2.09	0.45
1:u:426:HIS:HD2	1:u:735:LEU:HA	1.82	0.45
1:w:571:VAL:HB	1:w:574:GLU:HB3	1.97	0.45
1:y:426:HIS:HD2	1:y:735:LEU:HA	1.82	0.45
1:2:269:ASP:OD1	1:2:270:ASN:N	2.49	0.45
1:3:287:PHE:CE2	1:3:617:ILE:HG22	2.51	0.45
1:4:269:ASP:OD1	1:4:270:ASN:N	2.49	0.45
1:4:287:PHE:CE2	1:4:617:ILE:HG22	2.51	0.45
1:5:269:ASP:OD1	1:5:270:ASN:N	2.49	0.45
1:5:287:PHE:CE2	1:5:617:ILE:HG22	2.51	0.45
1:5:524:ALA:HB3	1:5:571:VAL:HA	1.97	0.45
1:7:269:ASP:OD1	1:7:270:ASN:N	2.49	0.45
1:7:426:HIS:HD2	1:7:735:LEU:HA	1.82	0.45
1:C:482:CYS:HA	1:C:523:MET:SD	2.57	0.45
1:C:711:ASP:HB3	1:C:723:PRO:HG3	1.99	0.45
1:D:571:VAL:HB	1:D:574:GLU:HB3	1.97	0.45
1:E:287:PHE:CE2	1:E:617:ILE:HG22	2.51	0.45
1:E:426:HIS:HD2	1:E:735:LEU:HA	1.82	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:269:ASP:OD1	1:F:270:ASN:N	2.49	0.45
1:F:397:TYR:HE2	1:n:692:LYS:NZ	2.14	0.45
1:F:711:ASP:HB3	1:F:723:PRO:HG3	1.99	0.45
1:G:434:MET:HB2	1:8:358:HIS:CE1	2.51	0.45
1:H:269:ASP:OD1	1:H:270:ASN:N	2.50	0.45
1:I:434:MET:HB2	1:N:358:HIS:CE1	2.51	0.45
1:K:434:MET:HB2	1:W:358:HIS:CE1	2.51	0.45
1:L:605:VAL:HG11	1:Q:622:PRO:HG2	1.98	0.45
1:N:257:TYR:O	1:Q:718:GLY:HA2	2.17	0.45
1:N:287:PHE:CE2	1:N:617:ILE:HG22	2.51	0.45
1:O:285:ASN:O	1:O:617:ILE:HG12	2.16	0.45
1:P:269:ASP:OD1	1:P:270:ASN:N	2.49	0.45
1:P:349:GLN:NE2	1:P:349:GLN:CA	2.73	0.45
1:P:718:GLY:HA2	1:n:257:TYR:O	2.16	0.45
1:Q:711:ASP:HB3	1:Q:723:PRO:HG3	1.99	0.45
1:S:243:SER:HB2	1:S:245:ARG:NH1	2.21	0.45
1:T:571:VAL:HB	1:T:574:GLU:HB3	1.97	0.45
1:U:482:CYS:HA	1:U:523:MET:SD	2.57	0.45
1:U:711:ASP:HB3	1:U:723:PRO:HG3	1.99	0.45
1:V:302:ASN:ND2	1:g:302:ASN:HD21	2.10	0.45
1:V:416:GLU:N	1:V:416:GLU:CD	2.74	0.45
1:W:269:ASP:OD1	1:W:270:ASN:N	2.49	0.45
1:W:431:ASP:OD2	1:1:513:ARG:NE	2.48	0.45
1:W:711:ASP:HB3	1:W:723:PRO:HG3	1.99	0.45
1:X:350:LEU:HD22	1:X:395:LEU:HD21	1.90	0.45
1:X:482:CYS:HA	1:X:523:MET:SD	2.57	0.45
1:c:296:TRP:CG	1:c:613:LEU:HD13	2.50	0.45
1:c:431:ASP:O	1:c:475:ARG:NH2	2.48	0.45
1:d:553:ASP:OD1	1:d:554:ILE:N	2.43	0.45
1:e:482:CYS:HA	1:e:523:MET:SD	2.57	0.45
1:e:571:VAL:HB	1:e:574:GLU:HB3	1.97	0.45
1:g:480:GLY:HA3	1:g:606:TRP:HB3	1.98	0.45
1:i:257:TYR:O	1:x:718:GLY:HA2	2.17	0.45
1:j:273:PHE:O	1:j:273:PHE:CG	2.68	0.45
1:j:349:GLN:NE2	1:j:349:GLN:CA	2.73	0.45
1:l:269:ASP:OD1	1:l:270:ASN:N	2.49	0.45
1:l:285:ASN:O	1:l:617:ILE:HG12	2.16	0.45
1:m:416:GLU:N	1:m:416:GLU:CD	2.74	0.45
1:m:571:VAL:HB	1:m:574:GLU:HB3	1.97	0.45
1:o:605:VAL:HG11	1:w:622:PRO:HG2	1.98	0.45
1:p:350:LEU:HD22	1:p:395:LEU:HD21	1.90	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:p:416:GLU:N	1:p:416:GLU:CD	2.74	0.45
1:s:302:ASN:ND2	1:w:302:ASN:HD21	2.10	0.45
1:s:711:ASP:HB3	1:s:723:PRO:HG3	1.99	0.45
1:t:429:SER:OG	1:t:431:ASP:OD1	2.23	0.45
1:t:482:CYS:HA	1:t:523:MET:SD	2.57	0.45
1:w:287:PHE:CE2	1:w:617:ILE:HG22	2.51	0.45
1:y:711:ASP:HB3	1:y:723:PRO:HG3	1.99	0.45
1:1:482:CYS:HA	1:1:523:MET:SD	2.57	0.45
1:4:432:ARG:NH2	1:6:269:ASP:O	2.47	0.45
1:5:282:PHE:HD2	1:5:313:PHE:HZ	1.63	0.45
1:6:296:TRP:CG	1:6:613:LEU:HD13	2.50	0.45
1:6:482:CYS:HA	1:6:523:MET:SD	2.57	0.45
1:6:711:ASP:HB3	1:6:723:PRO:HG3	1.99	0.45
1:A:426:HIS:HD2	1:A:735:LEU:HA	1.82	0.45
1:A:692:LYS:NZ	1:e:397:TYR:HE2	2.14	0.45
1:B:482:CYS:HA	1:B:523:MET:SD	2.57	0.45
1:B:711:ASP:HB3	1:B:723:PRO:HG3	1.99	0.45
1:C:302:ASN:HD21	1:p:302:ASN:ND2	2.10	0.45
1:C:524:ALA:HB3	1:C:571:VAL:HA	1.98	0.45
1:E:302:ASN:HD21	1:U:302:ASN:ND2	2.09	0.45
1:G:387:VAL:HG12	1:G:388:GLY:N	2.21	0.45
1:G:524:ALA:HB3	1:G:571:VAL:HA	1.97	0.45
1:G:711:ASP:HB3	1:G:723:PRO:HG3	1.99	0.45
1:I:711:ASP:HB3	1:I:723:PRO:HG3	1.99	0.45
1:J:257:TYR:O	1:b:718:GLY:HA2	2.17	0.45
1:J:269:ASP:OD1	1:J:270:ASN:N	2.49	0.45
1:K:432:ARG:NH2	1:W:269:ASP:O	2.47	0.45
1:L:397:TYR:HE2	1:Y:692:LYS:NZ	2.14	0.45
1:L:434:MET:HB2	1:Q:358:HIS:CE1	2.51	0.45
1:N:269:ASP:OD1	1:N:270:ASN:N	2.49	0.45
1:N:416:GLU:N	1:N:416:GLU:CD	2.74	0.45
1:O:571:VAL:HB	1:O:574:GLU:HB3	1.97	0.45
1:P:287:PHE:CE2	1:P:617:ILE:HG22	2.51	0.45
1:R:480:GLY:HA3	1:R:606:TRP:HB3	1.98	0.45
1:R:524:ALA:HB3	1:R:571:VAL:HA	1.97	0.45
1:U:480:GLY:HA3	1:U:606:TRP:HB3	1.98	0.45
1:W:287:PHE:CE2	1:W:617:ILE:HG22	2.51	0.45
1:W:296:TRP:CG	1:W:613:LEU:HD13	2.50	0.45
1:W:571:VAL:HB	1:W:574:GLU:HB3	1.97	0.45
1:X:426:HIS:HD2	1:X:735:LEU:HA	1.82	0.45
1:X:513:ARG:NE	1:l:431:ASP:OD2	2.48	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Y:282:PHE:HD2	1:Y:313:PHE:HZ	1.62	0.45
1:Z:269:ASP:OD1	1:Z:270:ASN:N	2.50	0.45
1:Z:482:CYS:HA	1:Z:523:MET:SD	2.57	0.45
1:a:269:ASP:OD1	1:a:270:ASN:N	2.50	0.45
1:a:622:PRO:HG2	1:c:605:VAL:HG11	1.98	0.45
1:b:431:ASP:O	1:b:475:ARG:NH2	2.48	0.45
1:c:571:VAL:HB	1:c:574:GLU:HB3	1.97	0.45
1:d:692:LYS:NZ	1:y:397:TYR:HE2	2.14	0.45
1:e:605:VAL:HG11	1:3:622:PRO:HG2	1.98	0.45
1:f:282:PHE:HD2	1:f:313:PHE:HZ	1.63	0.45
1:f:302:ASN:HD21	1:j:302:ASN:ND2	2.09	0.45
1:g:349:GLN:HE21	1:g:349:GLN:CA	2.04	0.45
1:g:524:ALA:HB3	1:g:571:VAL:HA	1.98	0.45
1:i:287:PHE:CE2	1:i:617:ILE:HG22	2.51	0.45
1:i:416:GLU:N	1:i:416:GLU:CD	2.74	0.45
1:k:397:TYR:HE2	1:m:692:LYS:NZ	2.15	0.45
1:n:416:GLU:N	1:n:416:GLU:CD	2.74	0.45
1:o:269:ASP:OD1	1:o:270:ASN:N	2.49	0.45
1:p:287:PHE:CE2	1:p:617:ILE:HG22	2.51	0.45
1:q:282:PHE:HD2	1:q:313:PHE:HZ	1.63	0.45
1:q:480:GLY:HA3	1:q:606:TRP:HB3	1.98	0.45
1:q:524:ALA:HB3	1:q:571:VAL:HA	1.98	0.45
1:r:243:SER:HB2	1:r:245:ARG:NH1	2.21	0.45
1:s:287:PHE:CE2	1:s:617:ILE:HG22	2.51	0.45
1:s:482:CYS:HA	1:s:523:MET:SD	2.57	0.45
1:s:482:CYS:HB2	1:s:570:PRO:HG3	1.98	0.45
1:t:387:VAL:HG12	1:t:388:GLY:N	2.21	0.45
1:t:524:ALA:HB3	1:t:571:VAL:HA	1.97	0.45
1:t:711:ASP:HB3	1:t:723:PRO:HG3	1.99	0.45
1:v:426:HIS:HD2	1:v:735:LEU:HA	1.82	0.45
1:w:426:HIS:HD2	1:w:735:LEU:HA	1.82	0.45
1:x:358:HIS:CE1	1:z:434:MET:HB2	2.51	0.45
1:y:269:ASP:OD1	1:y:270:ASN:N	2.49	0.45
1:1:711:ASP:HB3	1:1:723:PRO:HG3	1.99	0.45
1:3:269:ASP:OD1	1:3:270:ASN:N	2.49	0.45
1:5:480:GLY:HA3	1:5:606:TRP:HB3	1.98	0.45
1:6:269:ASP:OD1	1:6:270:ASN:N	2.49	0.45
1:6:571:VAL:HB	1:6:574:GLU:HB3	1.97	0.45
1:8:269:ASP:OD1	1:8:270:ASN:N	2.49	0.45
1:8:482:CYS:HA	1:8:523:MET:SD	2.57	0.45
1:B:513:ARG:NE	1:6:431:ASP:OD2	2.48	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:243:SER:HB2	1:D:245:ARG:NH1	2.22	0.45
1:E:482:CYS:HA	1:E:523:MET:SD	2.57	0.45
1:G:440:GLN:O	1:G:464:GLN:NE2	2.28	0.45
1:H:480:GLY:HA3	1:H:606:TRP:HB3	1.98	0.45
1:I:287:PHE:CE2	1:I:617:ILE:HG22	2.51	0.45
1:K:287:PHE:CE2	1:K:617:ILE:HG22	2.51	0.45
1:L:584:GLN:HE22	1:Q:486:GLN:CG	2.26	0.45
1:O:431:ASP:OD2	1:o:513:ARG:NE	2.48	0.45
1:Q:345:ASP:O	1:Q:346:SER:CB	2.54	0.45
1:Q:434:MET:HB2	1:Y:358:HIS:CE1	2.51	0.45
1:R:282:PHE:HD2	1:R:313:PHE:HZ	1.63	0.45
1:T:426:HIS:HD2	1:T:735:LEU:HA	1.82	0.45
1:T:513:ARG:NE	1:q:431:ASP:OD2	2.49	0.45
1:U:416:GLU:N	1:U:416:GLU:CD	2.74	0.45
1:U:426:HIS:HD2	1:U:735:LEU:HA	1.82	0.45
1:V:482:CYS:HA	1:V:523:MET:SD	2.57	0.45
1:W:482:CYS:HA	1:W:523:MET:SD	2.57	0.45
1:X:269:ASP:OD1	1:X:270:ASN:N	2.49	0.45
1:Y:711:ASP:HB3	1:Y:723:PRO:HG3	1.99	0.45
1:c:482:CYS:HA	1:c:523:MET:SD	2.57	0.45
1:d:287:PHE:CE2	1:d:617:ILE:HG22	2.51	0.45
1:e:296:TRP:CG	1:e:613:LEU:HD13	2.50	0.45
1:g:269:ASP:OD1	1:g:270:ASN:N	2.49	0.45
1:i:434:MET:HB2	1:s:358:HIS:CE1	2.51	0.45
1:j:431:ASP:O	1:j:475:ARG:NH2	2.48	0.45
1:k:571:VAL:HB	1:k:574:GLU:HB3	1.97	0.45
1:k:711:ASP:HB3	1:k:723:PRO:HG3	1.99	0.45
1:n:287:PHE:CE2	1:n:617:ILE:HG22	2.51	0.45
1:p:482:CYS:HA	1:p:523:MET:SD	2.57	0.45
1:u:287:PHE:CE2	1:u:617:ILE:HG22	2.51	0.45
1:v:524:ALA:HB3	1:v:571:VAL:HA	1.97	0.45
1:x:486:GLN:CG	1:z:584:GLN:HE22	2.26	0.45
1:z:269:ASP:OD1	1:z:270:ASN:N	2.49	0.45
1:z:287:PHE:CE2	1:z:617:ILE:HG22	2.51	0.45
1:2:285:ASN:O	1:2:617:ILE:HG12	2.16	0.45
1:6:426:HIS:HD2	1:6:735:LEU:HA	1.82	0.45
1:7:524:ALA:HB3	1:7:571:VAL:HA	1.97	0.45
1:8:285:ASN:O	1:8:617:ILE:HG12	2.16	0.45
1:A:257:TYR:O	1:W:718:GLY:HA2	2.16	0.45
1:A:434:MET:HB2	1:e:358:HIS:CE1	2.52	0.45
1:A:482:CYS:HB2	1:A:570:PRO:HG3	1.98	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:524:ALA:HB3	1:A:571:VAL:HA	1.97	0.45
1:B:358:HIS:CE1	1:6:434:MET:HB2	2.51	0.45
1:B:416:GLU:N	1:B:416:GLU:CD	2.74	0.45
1:C:269:ASP:OD1	1:C:270:ASN:N	2.50	0.45
1:D:358:HIS:CE1	1:T:434:MET:HB2	2.51	0.45
1:D:711:ASP:HB3	1:D:723:PRO:HG3	1.99	0.45
1:E:269:ASP:OD1	1:E:270:ASN:N	2.49	0.45
1:E:711:ASP:HB3	1:E:723:PRO:HG3	1.99	0.45
1:G:426:HIS:HD2	1:G:735:LEU:HA	1.82	0.45
1:H:282:PHE:HD2	1:H:313:PHE:HZ	1.63	0.45
1:L:269:ASP:OD1	1:L:270:ASN:N	2.49	0.45
1:L:287:PHE:CE2	1:L:617:ILE:HG22	2.51	0.45
1:L:482:CYS:HA	1:L:523:MET:SD	2.57	0.45
1:M:718:GLY:HA2	1:p:257:TYR:O	2.17	0.45
1:N:431:ASP:OD2	1:U:513:ARG:NE	2.48	0.45
1:N:434:MET:HB2	1:U:358:HIS:CE1	2.51	0.45
1:N:524:ALA:HB3	1:N:571:VAL:HA	1.97	0.45
1:O:524:ALA:HB3	1:O:571:VAL:HA	1.98	0.45
1:R:622:PRO:HG2	1:k:605:VAL:HG11	1.98	0.45
1:S:269:ASP:OD1	1:S:270:ASN:N	2.49	0.45
1:U:287:PHE:CE2	1:U:617:ILE:HG22	2.51	0.45
1:V:257:TYR:O	1:h:718:GLY:HA2	2.17	0.45
1:V:540:LEU:HD12	1:V:540:LEU:O	2.17	0.45
1:V:622:PRO:HG2	1:2:605:VAL:HG11	1.97	0.45
1:W:426:HIS:HD2	1:W:735:LEU:HA	1.82	0.45
1:W:434:MET:HB2	1:1:358:HIS:CE1	2.51	0.45
1:X:718:GLY:HA2	1:g:257:TYR:O	2.17	0.45
1:Y:524:ALA:HB3	1:Y:571:VAL:HA	1.97	0.45
1:Z:285:ASN:O	1:Z:617:ILE:HG12	2.16	0.45
1:b:282:PHE:HD2	1:b:313:PHE:HZ	1.63	0.45
1:b:482:CYS:HA	1:b:523:MET:SD	2.57	0.45
1:d:416:GLU:N	1:d:416:GLU:CD	2.74	0.45
1:e:434:MET:HB2	1:3:358:HIS:CE1	2.51	0.45
1:f:397:TYR:HE2	1:y:692:LYS:NZ	2.14	0.45
1:f:431:ASP:O	1:f:475:ARG:NH2	2.48	0.45
1:i:269:ASP:OD1	1:i:270:ASN:N	2.49	0.45
1:j:287:PHE:CE2	1:j:617:ILE:HG22	2.51	0.45
1:k:243:SER:HB2	1:k:245:ARG:NH1	2.22	0.45
1:l:426:HIS:HD2	1:l:735:LEU:HA	1.82	0.45
1:l:524:ALA:HB3	1:l:571:VAL:HA	1.98	0.45
1:l:571:VAL:HB	1:l:574:GLU:HB3	1.97	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:m:426:HIS:HD2	1:m:735:LEU:HA	1.82	0.45
1:o:350:LEU:HD22	1:o:395:LEU:HD21	1.90	0.45
1:p:540:LEU:O	1:p:540:LEU:HD12	2.17	0.45
1:q:269:ASP:OD1	1:q:270:ASN:N	2.49	0.45
1:r:269:ASP:OD1	1:r:270:ASN:N	2.49	0.45
1:r:426:HIS:HD2	1:r:735:LEU:HA	1.82	0.45
1:s:416:GLU:N	1:s:416:GLU:CD	2.74	0.45
1:s:426:HIS:HD2	1:s:735:LEU:HA	1.82	0.45
1:s:480:GLY:HA3	1:s:606:TRP:HB3	1.98	0.45
1:t:287:PHE:CE2	1:t:617:ILE:HG22	2.51	0.45
1:t:426:HIS:HD2	1:t:735:LEU:HA	1.82	0.45
1:t:440:GLN:O	1:t:464:GLN:NE2	2.28	0.45
1:u:285:ASN:O	1:u:617:ILE:HG12	2.16	0.45
1:u:718:GLY:HA2	1:7:257:TYR:O	2.17	0.45
1:v:482:CYS:HB2	1:v:570:PRO:HG3	1.98	0.45
1:w:711:ASP:HB3	1:w:723:PRO:HG3	1.99	0.45
1:x:622:PRO:HG2	1:z:605:VAL:HG11	1.98	0.45
1:z:243:SER:HB2	1:z:245:ARG:NH1	2.22	0.45
1:z:397:TYR:HE2	1:7:692:LYS:NZ	2.14	0.45
1:z:482:CYS:HA	1:z:523:MET:SD	2.57	0.45
1:3:524:ALA:HB3	1:3:571:VAL:HA	1.97	0.45
1:5:350:LEU:HD21	1:5:398:PHE:HE2	1.80	0.45
1:7:282:PHE:HD2	1:7:313:PHE:HZ	1.62	0.45
1:7:482:CYS:HA	1:7:523:MET:SD	2.57	0.45
1:7:711:ASP:HB3	1:7:723:PRO:HG3	1.99	0.45
1:8:350:LEU:HD21	1:8:398:PHE:HE2	1.80	0.45
1:A:431:ASP:OD2	1:e:513:ARG:NE	2.48	0.45
1:B:387:VAL:HG12	1:B:388:GLY:N	2.21	0.45
1:E:257:TYR:O	1:S:718:GLY:HA2	2.17	0.45
1:E:692:LYS:NZ	1:l:397:TYR:HE2	2.14	0.45
1:G:287:PHE:CE2	1:G:617:ILE:HG22	2.51	0.45
1:G:718:GLY:HA2	1:Q:257:TYR:O	2.17	0.45
1:H:395:LEU:H	1:H:395:LEU:HG	1.48	0.45
1:I:285:ASN:O	1:I:617:ILE:HG12	2.16	0.45
1:I:718:GLY:HA2	1:Y:257:TYR:O	2.17	0.45
1:J:285:ASN:O	1:J:617:ILE:HG12	2.16	0.45
1:J:287:PHE:CE2	1:J:617:ILE:HG22	2.51	0.45
1:L:358:HIS:CE1	1:Y:434:MET:HB2	2.51	0.45
1:L:540:LEU:HD12	1:L:540:LEU:O	2.17	0.45
1:M:482:CYS:HA	1:M:523:MET:SD	2.57	0.45
1:M:622:PRO:HG2	1:8:605:VAL:HG11	1.98	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:482:CYS:HA	1:N:523:MET:SD	2.57	0.45
1:O:426:HIS:HD2	1:O:735:LEU:HA	1.82	0.45
1:O:480:GLY:HA3	1:O:606:TRP:HB3	1.98	0.45
1:P:397:TYR:HE2	1:p:692:LYS:NZ	2.14	0.45
1:P:431:ASP:O	1:P:475:ARG:NH2	2.48	0.45
1:Q:395:LEU:H	1:Q:395:LEU:HG	1.48	0.45
1:Q:426:HIS:HD2	1:Q:735:LEU:HA	1.82	0.45
1:R:269:ASP:OD1	1:R:270:ASN:N	2.49	0.45
1:S:426:HIS:HD2	1:S:735:LEU:HA	1.82	0.45
1:Y:482:CYS:HA	1:Y:523:MET:SD	2.57	0.45
1:Z:350:LEU:HD21	1:Z:398:PHE:HE2	1.80	0.45
1:a:358:HIS:CE1	1:c:434:MET:HB2	2.51	0.45
1:a:524:ALA:HB3	1:a:571:VAL:HA	1.97	0.45
1:d:387:VAL:HG12	1:d:388:GLY:N	2.22	0.45
1:i:431:ASP:OD2	1:s:513:ARG:NE	2.48	0.45
1:i:482:CYS:HA	1:i:523:MET:SD	2.57	0.45
1:n:553:ASP:OD1	1:n:554:ILE:N	2.43	0.45
1:n:571:VAL:HB	1:n:574:GLU:HB3	1.97	0.45
1:s:434:MET:HB2	1:u:358:HIS:CE1	2.51	0.45
1:t:718:GLY:HA2	1:x:257:TYR:O	2.17	0.45
1:u:269:ASP:OD1	1:u:270:ASN:N	2.49	0.45
1:v:257:TYR:O	1:6:718:GLY:HA2	2.16	0.45
1:w:269:ASP:OD1	1:w:270:ASN:N	2.49	0.45
1:x:434:MET:HB2	1:7:358:HIS:CE1	2.51	0.45
1:y:350:LEU:HD21	1:y:398:PHE:HE2	1.80	0.45
1:z:350:LEU:HD21	1:z:398:PHE:HE2	1.80	0.45
1:z:540:LEU:HD12	1:z:540:LEU:O	2.17	0.45
1:1:416:GLU:N	1:1:416:GLU:CD	2.74	0.45
1:1:431:ASP:O	1:1:475:ARG:NH2	2.48	0.45
1:2:287:PHE:CE2	1:2:617:ILE:HG22	2.51	0.45
1:4:692:LYS:NZ	1:6:397:TYR:HE2	2.15	0.45
1:6:287:PHE:CE2	1:6:617:ILE:HG22	2.51	0.45
1:A:348:TYR:H	1:A:348:TYR:HD2	1.65	0.45
1:A:711:ASP:HB3	1:A:723:PRO:HG3	1.99	0.45
1:B:480:GLY:HA3	1:B:606:TRP:HB3	1.98	0.45
1:B:540:LEU:O	1:B:540:LEU:HD12	2.17	0.45
1:D:350:LEU:HD21	1:D:398:PHE:HE2	1.80	0.45
1:F:358:HIS:CE1	1:n:434:MET:HB2	2.51	0.45
1:F:692:LYS:NZ	1:b:397:TYR:HE2	2.14	0.45
1:H:257:TYR:O	1:V:718:GLY:HA2	2.17	0.45
1:H:540:LEU:HD12	1:H:540:LEU:O	2.17	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:718:GLY:HA2	1:3:257:TYR:O	2.16	0.45
1:I:269:ASP:OD1	1:I:270:ASN:N	2.49	0.45
1:I:358:HIS:CE1	1:U:434:MET:HB2	2.51	0.45
1:J:692:LYS:NZ	1:p:397:TYR:HE2	2.15	0.45
1:K:540:LEU:HD12	1:K:540:LEU:O	2.17	0.45
1:L:426:HIS:HD2	1:L:735:LEU:HA	1.82	0.45
1:L:429:SER:OG	1:L:431:ASP:OD1	2.23	0.45
1:O:348:TYR:H	1:O:348:TYR:HD2	1.65	0.45
1:S:257:TYR:O	1:e:718:GLY:HA2	2.16	0.45
1:S:434:MET:HB2	1:g:358:HIS:CE1	2.51	0.45
1:S:482:CYS:HA	1:S:523:MET:SD	2.57	0.45
1:V:711:ASP:HB3	1:V:723:PRO:HG3	1.98	0.45
1:Z:605:VAL:HG11	1:h:622:PRO:HG2	1.98	0.45
1:b:348:TYR:H	1:b:348:TYR:HD2	1.65	0.45
1:b:480:GLY:HA3	1:b:606:TRP:HB3	1.98	0.45
1:c:513:ARG:NE	1:v:431:ASP:OD2	2.48	0.45
1:d:571:VAL:HB	1:d:574:GLU:HB3	1.97	0.45
1:f:348:TYR:H	1:f:348:TYR:HD2	1.65	0.45
1:f:426:HIS:HD2	1:f:735:LEU:HA	1.82	0.45
1:f:482:CYS:HA	1:f:523:MET:SD	2.57	0.45
1:f:718:GLY:HA2	1:2:257:TYR:O	2.17	0.45
1:h:431:ASP:O	1:h:475:ARG:NH2	2.48	0.45
1:k:358:HIS:CE1	1:m:434:MET:HB2	2.51	0.45
1:m:480:GLY:HA3	1:m:606:TRP:HB3	1.98	0.45
1:n:387:VAL:HG12	1:n:388:GLY:N	2.21	0.45
1:p:718:GLY:HA2	1:5:257:TYR:O	2.17	0.45
1:r:287:PHE:CE2	1:r:617:ILE:HG22	2.51	0.45
1:r:482:CYS:HA	1:r:523:MET:SD	2.57	0.45
1:r:711:ASP:HB3	1:r:723:PRO:HG3	1.99	0.45
1:s:269:ASP:OD1	1:s:270:ASN:N	2.49	0.45
1:v:348:TYR:H	1:v:348:TYR:HD2	1.65	0.45
1:v:711:ASP:HB3	1:v:723:PRO:HG3	1.99	0.45
1:w:482:CYS:HA	1:w:523:MET:SD	2.57	0.45
1:x:426:HIS:HD2	1:x:735:LEU:HA	1.82	0.45
1:y:540:LEU:HD12	1:y:540:LEU:O	2.17	0.45
1:z:358:HIS:CE1	1:7:434:MET:HB2	2.51	0.45
1:z:429:SER:OG	1:z:431:ASP:OD1	2.24	0.45
1:z:431:ASP:O	1:z:475:ARG:NH2	2.48	0.45
1:3:482:CYS:HA	1:3:523:MET:SD	2.57	0.45
1:3:540:LEU:HD12	1:3:540:LEU:O	2.17	0.45
1:A:482:CYS:HA	1:A:523:MET:SD	2.57	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:718:GLY:HA2	1:L:257:TYR:O	2.17	0.45
1:B:524:ALA:HB3	1:B:571:VAL:HA	1.97	0.45
1:C:257:TYR:O	1:o:718:GLY:HA2	2.17	0.45
1:E:434:MET:HB2	1:l:358:HIS:CE1	2.51	0.45
1:F:350:LEU:HD21	1:F:398:PHE:HE2	1.80	0.45
1:F:540:LEU:O	1:F:540:LEU:HD12	2.17	0.45
1:H:350:LEU:HD21	1:H:398:PHE:HE2	1.80	0.45
1:I:431:ASP:OD2	1:N:513:ARG:NE	2.48	0.45
1:I:482:CYS:HB2	1:I:570:PRO:HG3	1.98	0.45
1:I:545:GLN:NE2	1:I:719:VAL:HG12	2.32	0.45
1:K:692:LYS:NZ	1:W:397:TYR:HE2	2.15	0.45
1:L:350:LEU:HD21	1:L:398:PHE:HE2	1.80	0.45
1:L:545:GLN:NE2	1:L:719:VAL:HG12	2.32	0.45
1:M:431:ASP:O	1:M:475:ARG:NH2	2.48	0.45
1:N:718:GLY:HA2	1:b:257:TYR:O	2.16	0.45
1:P:540:LEU:O	1:P:540:LEU:HD12	2.17	0.45
1:Q:482:CYS:HA	1:Q:523:MET:SD	2.57	0.45
1:S:287:PHE:CE2	1:S:617:ILE:HG22	2.51	0.45
1:S:462:PHE:HB2	1:g:552:VAL:HG13	1.99	0.45
1:S:711:ASP:HB3	1:S:723:PRO:HG3	1.99	0.45
1:T:540:LEU:O	1:T:540:LEU:HD12	2.17	0.45
1:U:395:LEU:H	1:U:395:LEU:HG	1.48	0.45
1:V:269:ASP:OD1	1:V:270:ASN:N	2.49	0.45
1:V:692:LYS:NZ	1:j:397:TYR:HE2	2.15	0.45
1:Y:540:LEU:O	1:Y:540:LEU:HD12	2.17	0.45
1:a:243:SER:HB2	1:a:245:ARG:NH1	2.21	0.45
1:a:257:TYR:O	1:5:718:GLY:HA2	2.16	0.45
1:a:482:CYS:HA	1:a:523:MET:SD	2.57	0.45
1:a:540:LEU:O	1:a:540:LEU:HD12	2.17	0.45
1:c:269:ASP:OD1	1:c:270:ASN:N	2.49	0.45
1:c:482:CYS:HB2	1:c:570:PRO:HG3	1.98	0.45
1:c:540:LEU:HD12	1:c:540:LEU:O	2.17	0.45
1:d:434:MET:HB2	1:y:358:HIS:CE1	2.51	0.45
1:d:482:CYS:HA	1:d:523:MET:SD	2.57	0.45
1:e:269:ASP:OD1	1:e:270:ASN:N	2.49	0.45
1:e:540:LEU:HD12	1:e:540:LEU:O	2.17	0.45
1:f:480:GLY:HA3	1:f:606:TRP:HB3	1.98	0.45
1:i:524:ALA:HB3	1:i:571:VAL:HA	1.97	0.45
1:j:540:LEU:HD12	1:j:540:LEU:O	2.17	0.45
1:k:426:HIS:HD2	1:k:735:LEU:HA	1.82	0.45
1:n:482:CYS:HA	1:n:523:MET:SD	2.57	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:o:337:THR:OG1	1:q:334:ASN:ND2	2.50	0.45
1:r:285:ASN:O	1:r:617:ILE:HG12	2.16	0.45
1:v:545:GLN:NE2	1:v:719:VAL:HG12	2.32	0.45
1:x:345:ASP:O	1:x:346:SER:CB	2.54	0.45
1:x:482:CYS:HA	1:x:523:MET:SD	2.56	0.45
1:z:426:HIS:HD2	1:z:735:LEU:HA	1.82	0.45
1:z:545:GLN:NE2	1:z:719:VAL:HG12	2.32	0.45
1:1:257:TYR:O	1:3:718:GLY:HA2	2.17	0.45
1:1:540:LEU:HD12	1:1:540:LEU:O	2.17	0.45
1:5:540:LEU:O	1:5:540:LEU:HD12	2.17	0.45
1:6:350:LEU:HD21	1:6:398:PHE:HE2	1.80	0.45
1:8:287:PHE:CE2	1:8:617:ILE:HG22	2.51	0.45
1:A:269:ASP:OD1	1:A:270:ASN:N	2.49	0.45
1:A:545:GLN:NE2	1:A:719:VAL:HG12	2.32	0.45
1:B:257:TYR:O	1:a:718:GLY:HA2	2.17	0.45
1:B:431:ASP:O	1:B:475:ARG:NH2	2.48	0.45
1:D:426:HIS:HD2	1:D:735:LEU:HA	1.82	0.45
1:D:622:PRO:HG2	1:T:605:VAL:HG11	1.98	0.45
1:F:622:PRO:HG2	1:n:605:VAL:HG11	1.98	0.45
1:G:605:VAL:HG11	1:8:622:PRO:HG2	1.98	0.45
1:I:540:LEU:O	1:I:540:LEU:HD12	2.17	0.45
1:J:431:ASP:OD2	1:p:513:ARG:NE	2.48	0.45
1:J:480:GLY:HA3	1:J:606:TRP:HB3	1.98	0.45
1:J:605:VAL:HG11	1:p:622:PRO:HG2	1.98	0.45
1:L:431:ASP:O	1:L:475:ARG:NH2	2.48	0.45
1:L:482:CYS:HB2	1:L:570:PRO:HG3	1.98	0.45
1:M:426:HIS:HD2	1:M:735:LEU:HA	1.82	0.45
1:O:358:HIS:CE1	1:w:434:MET:HB2	2.51	0.45
1:O:397:TYR:HE2	1:w:692:LYS:NZ	2.14	0.45
1:R:285:ASN:O	1:R:617:ILE:HG12	2.16	0.45
1:S:285:ASN:O	1:S:617:ILE:HG12	2.16	0.45
1:S:413:TYR:CE2	1:S:643:PRO:HA	2.52	0.45
1:T:545:GLN:NE2	1:T:719:VAL:HG12	2.32	0.45
1:U:269:ASP:OD1	1:U:270:ASN:N	2.49	0.45
1:U:413:TYR:CE2	1:U:643:PRO:HA	2.52	0.45
1:V:426:HIS:HD2	1:V:735:LEU:HA	1.82	0.45
1:W:605:VAL:HG11	1:1:622:PRO:HG2	1.98	0.45
1:X:480:GLY:HA3	1:X:606:TRP:HB3	1.98	0.45
1:X:545:GLN:NE2	1:X:719:VAL:HG12	2.32	0.45
1:Y:287:PHE:CE2	1:Y:617:ILE:HG22	2.51	0.45
1:Z:287:PHE:CE2	1:Z:617:ILE:HG22	2.51	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Z:413:TYR:CE2	1:Z:643:PRO:HA	2.52	0.45
1:a:545:GLN:NE2	1:a:719:VAL:HG12	2.32	0.45
1:b:413:TYR:CE2	1:b:643:PRO:HA	2.52	0.45
1:b:426:HIS:HD2	1:b:735:LEU:HA	1.82	0.45
1:b:711:ASP:HB3	1:b:723:PRO:HG3	1.99	0.45
1:c:287:PHE:CE2	1:c:617:ILE:HG22	2.51	0.45
1:c:397:TYR:HE2	1:v:692:LYS:NZ	2.14	0.45
1:c:711:ASP:HB3	1:c:723:PRO:HG3	1.99	0.45
1:d:413:TYR:CE2	1:d:643:PRO:HA	2.52	0.45
1:d:605:VAL:HG11	1:y:622:PRO:HG2	1.98	0.45
1:e:285:ASN:O	1:e:617:ILE:HG12	2.16	0.45
1:e:287:PHE:CE2	1:e:617:ILE:HG22	2.51	0.45
1:e:482:CYS:HB2	1:e:570:PRO:HG3	1.98	0.45
1:e:711:ASP:HB3	1:e:723:PRO:HG3	1.99	0.45
1:h:482:CYS:HA	1:h:523:MET:SD	2.57	0.45
1:i:350:LEU:HD21	1:i:398:PHE:HE2	1.80	0.45
1:k:350:LEU:HD21	1:k:398:PHE:HE2	1.80	0.45
1:l:480:GLY:HA3	1:l:606:TRP:HB3	1.98	0.45
1:l:482:CYS:HA	1:l:523:MET:SD	2.57	0.45
1:m:413:TYR:CE2	1:m:643:PRO:HA	2.52	0.45
1:m:540:LEU:HD12	1:m:540:LEU:O	2.17	0.45
1:n:413:TYR:CE2	1:n:643:PRO:HA	2.52	0.45
1:o:545:GLN:NE2	1:o:719:VAL:HG12	2.32	0.45
1:p:269:ASP:OD1	1:p:270:ASN:N	2.49	0.45
1:p:426:HIS:HD2	1:p:735:LEU:HA	1.82	0.45
1:p:545:GLN:NE2	1:p:719:VAL:HG12	2.32	0.45
1:s:245:ARG:CD	1:s:366:PRO:HA	2.47	0.45
1:s:413:TYR:CE2	1:s:643:PRO:HA	2.52	0.45
1:s:692:LYS:NZ	1:u:397:TYR:HE2	2.14	0.45
1:u:482:CYS:HB2	1:u:570:PRO:HG3	1.98	0.45
1:u:540:LEU:HD12	1:u:540:LEU:O	2.17	0.45
1:u:545:GLN:NE2	1:u:719:VAL:HG12	2.32	0.45
1:v:482:CYS:HA	1:v:523:MET:SD	2.57	0.45
1:1:387:VAL:HG12	1:1:388:GLY:N	2.21	0.45
1:1:413:TYR:CE2	1:1:643:PRO:HA	2.52	0.45
1:1:426:HIS:HD2	1:1:735:LEU:HA	1.82	0.45
1:1:480:GLY:HA3	1:1:606:TRP:HB3	1.98	0.45
1:1:524:ALA:HB3	1:1:571:VAL:HA	1.97	0.45
1:2:480:GLY:HA3	1:2:606:TRP:HB3	1.98	0.45
1:3:243:SER:HB2	1:3:245:ARG:NH1	2.22	0.45
1:4:480:GLY:HA3	1:4:606:TRP:HB3	1.98	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:5:545:GLN:NE2	1:5:719:VAL:HG12	2.32	0.45
1:7:480:GLY:HA3	1:7:606:TRP:HB3	1.98	0.45
1:7:540:LEU:HD12	1:7:540:LEU:O	2.17	0.45
1:8:413:TYR:CE2	1:8:643:PRO:HA	2.52	0.45
1:A:303:ASN:ND2	1:A:686:LEU:HD22	2.33	0.44
1:B:413:TYR:CE2	1:B:643:PRO:HA	2.52	0.44
1:B:426:HIS:HD2	1:B:735:LEU:HA	1.82	0.44
1:D:303:ASN:ND2	1:D:686:LEU:HD22	2.33	0.44
1:F:303:ASN:ND2	1:F:686:LEU:HD22	2.33	0.44
1:G:288:HIS:CE1	1:G:364:PRO:HG3	2.53	0.44
1:H:482:CYS:HB2	1:H:570:PRO:HG3	1.98	0.44
1:I:397:TYR:HE2	1:U:692:LYS:NZ	2.14	0.44
1:I:480:GLY:HA3	1:I:606:TRP:HB3	1.98	0.44
1:K:257:TYR:O	1:Z:718:GLY:HA2	2.17	0.44
1:K:302:ASN:ND2	1:4:302:ASN:HD21	2.10	0.44
1:M:243:SER:HB2	1:M:245:ARG:NH1	2.21	0.44
1:N:350:LEU:HD21	1:N:398:PHE:HE2	1.80	0.44
1:N:711:ASP:HB3	1:N:723:PRO:HG3	1.99	0.44
1:P:413:TYR:CE2	1:P:643:PRO:HA	2.52	0.44
1:R:545:GLN:NE2	1:R:719:VAL:HG12	2.32	0.44
1:S:540:LEU:HD12	1:S:540:LEU:O	2.17	0.44
1:T:413:TYR:CE2	1:T:643:PRO:HA	2.52	0.44
1:T:480:GLY:HA3	1:T:606:TRP:HB3	1.98	0.44
1:U:245:ARG:CD	1:U:366:PRO:HA	2.47	0.44
1:U:545:GLN:NE2	1:U:719:VAL:HG12	2.32	0.44
1:V:434:MET:HB2	1:j:358:HIS:CE1	2.51	0.44
1:V:545:GLN:NE2	1:V:719:VAL:HG12	2.32	0.44
1:W:288:HIS:CE1	1:W:364:PRO:HG3	2.53	0.44
1:W:350:LEU:HD21	1:W:398:PHE:HE2	1.80	0.44
1:Y:480:GLY:HA3	1:Y:606:TRP:HB3	1.98	0.44
1:Z:480:GLY:HA3	1:Z:606:TRP:HB3	1.98	0.44
1:Z:622:PRO:HG2	1:t:605:VAL:HG11	1.98	0.44
1:a:692:LYS:NZ	1:v:397:TYR:HE2	2.14	0.44
1:b:692:LYS:NZ	1:n:397:TYR:HE2	2.14	0.44
1:c:413:TYR:CE2	1:c:643:PRO:HA	2.52	0.44
1:f:257:TYR:O	1:i:718:GLY:HA2	2.17	0.44
1:f:358:HIS:CE1	1:y:434:MET:HB2	2.51	0.44
1:f:413:TYR:CE2	1:f:643:PRO:HA	2.52	0.44
1:f:711:ASP:HB3	1:f:723:PRO:HG3	1.98	0.44
1:h:243:SER:HB2	1:h:245:ARG:NH1	2.22	0.44
1:h:413:TYR:CE2	1:h:643:PRO:HA	2.52	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:j:462:PHE:HB2	1:2:552:VAL:HG13	1.99	0.44
1:l:348:TYR:H	1:l:348:TYR:HD2	1.65	0.44
1:m:545:GLN:NE2	1:m:719:VAL:HG12	2.32	0.44
1:p:711:ASP:HB3	1:p:723:PRO:HG3	1.99	0.44
1:q:285:ASN:O	1:q:617:ILE:HG12	2.16	0.44
1:r:413:TYR:CE2	1:r:643:PRO:HA	2.52	0.44
1:r:540:LEU:HD12	1:r:540:LEU:O	2.17	0.44
1:s:395:LEU:H	1:s:395:LEU:HG	1.48	0.44
1:t:288:HIS:CE1	1:t:364:PRO:HG3	2.53	0.44
1:u:480:GLY:HA3	1:u:606:TRP:HB3	1.98	0.44
1:v:303:ASN:ND2	1:v:686:LEU:HD22	2.33	0.44
1:v:718:GLY:HA2	1:z:257:TYR:O	2.17	0.44
1:y:303:ASN:ND2	1:y:686:LEU:HD22	2.33	0.44
1:z:482:CYS:HB2	1:z:570:PRO:HG3	1.98	0.44
1:3:545:GLN:NE2	1:3:719:VAL:HG12	2.32	0.44
1:4:257:TYR:O	1:8:718:GLY:HA2	2.17	0.44
1:4:540:LEU:HD12	1:4:540:LEU:O	2.17	0.44
1:6:288:HIS:CE1	1:6:364:PRO:HG3	2.53	0.44
1:7:287:PHE:CE2	1:7:617:ILE:HG22	2.51	0.44
1:A:540:LEU:O	1:A:540:LEU:HD12	2.17	0.44
1:B:310:ARG:NE	1:B:683:GLU:OE1	2.41	0.44
1:B:348:TYR:H	1:B:348:TYR:HD2	1.65	0.44
1:B:622:PRO:HG2	1:6:605:VAL:HG11	1.98	0.44
1:C:288:HIS:CE1	1:C:364:PRO:HG3	2.53	0.44
1:C:358:HIS:CE1	1:r:434:MET:HB2	2.52	0.44
1:C:413:TYR:CE2	1:C:643:PRO:HA	2.52	0.44
1:E:288:HIS:CE1	1:E:364:PRO:HG3	2.53	0.44
1:E:303:ASN:ND2	1:E:686:LEU:HD22	2.33	0.44
1:F:434:MET:HB2	1:b:358:HIS:CE1	2.51	0.44
1:H:413:TYR:CE2	1:H:643:PRO:HA	2.52	0.44
1:H:545:GLN:NE2	1:H:719:VAL:HG12	2.32	0.44
1:I:413:TYR:CE2	1:I:643:PRO:HA	2.52	0.44
1:J:482:CYS:HA	1:J:523:MET:SD	2.57	0.44
1:J:711:ASP:HB3	1:J:723:PRO:HG3	1.99	0.44
1:K:480:GLY:HA3	1:K:606:TRP:HB3	1.98	0.44
1:M:413:TYR:CE2	1:M:643:PRO:HA	2.53	0.44
1:M:540:LEU:O	1:M:540:LEU:HD12	2.17	0.44
1:O:416:GLU:N	1:O:416:GLU:CD	2.74	0.44
1:O:482:CYS:HA	1:O:523:MET:SD	2.57	0.44
1:O:540:LEU:HD12	1:O:540:LEU:O	2.17	0.44
1:P:426:HIS:HD2	1:P:735:LEU:HA	1.82	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:R:540:LEU:HD12	1:R:540:LEU:O	2.17	0.44
1:U:718:GLY:HA2	1:l:257:TYR:O	2.17	0.44
1:Z:303:ASN:ND2	1:Z:686:LEU:HD22	2.33	0.44
1:Z:482:CYS:HB2	1:Z:570:PRO:HG3	1.98	0.44
1:c:285:ASN:O	1:c:617:ILE:HG12	2.16	0.44
1:c:303:ASN:ND2	1:c:686:LEU:HD22	2.33	0.44
1:e:303:ASN:ND2	1:e:686:LEU:HD22	2.33	0.44
1:e:413:TYR:CE2	1:e:643:PRO:HA	2.52	0.44
1:h:426:HIS:HD2	1:h:735:LEU:HA	1.82	0.44
1:j:303:ASN:ND2	1:j:686:LEU:HD22	2.33	0.44
1:j:413:TYR:CE2	1:j:643:PRO:HA	2.52	0.44
1:j:545:GLN:NE2	1:j:719:VAL:HG12	2.32	0.44
1:k:245:ARG:CD	1:k:366:PRO:HA	2.47	0.44
1:k:303:ASN:ND2	1:k:686:LEU:HD22	2.33	0.44
1:k:622:PRO:HG2	1:m:605:VAL:HG11	1.98	0.44
1:m:482:CYS:HA	1:m:523:MET:SD	2.56	0.44
1:n:711:ASP:HB3	1:n:723:PRO:HG3	1.98	0.44
1:o:480:GLY:HA3	1:o:606:TRP:HB3	1.98	0.44
1:p:288:HIS:CE1	1:p:364:PRO:HG3	2.53	0.44
1:q:482:CYS:HA	1:q:523:MET:SD	2.57	0.44
1:q:540:LEU:HD12	1:q:540:LEU:O	2.17	0.44
1:q:545:GLN:NE2	1:q:719:VAL:HG12	2.32	0.44
1:s:545:GLN:NE2	1:s:719:VAL:HG12	2.32	0.44
1:u:413:TYR:CE2	1:u:643:PRO:HA	2.52	0.44
1:u:431:ASP:O	1:u:475:ARG:NH2	2.48	0.44
1:v:269:ASP:OD1	1:v:270:ASN:N	2.49	0.44
1:v:540:LEU:HD12	1:v:540:LEU:O	2.17	0.44
1:w:545:GLN:NE2	1:w:719:VAL:HG12	2.32	0.44
1:5:395:LEU:H	1:5:395:LEU:HG	1.48	0.44
1:8:303:ASN:ND2	1:8:686:LEU:HD22	2.33	0.44
1:A:288:HIS:CE1	1:A:364:PRO:HG3	2.53	0.44
1:A:397:TYR:HE2	1:3:692:LYS:NZ	2.15	0.44
1:B:269:ASP:OD1	1:B:270:ASN:N	2.49	0.44
1:D:245:ARG:CD	1:D:366:PRO:HA	2.47	0.44
1:E:545:GLN:NE2	1:E:719:VAL:HG12	2.32	0.44
1:F:288:HIS:CE1	1:F:364:PRO:HG3	2.53	0.44
1:F:482:CYS:HA	1:F:523:MET:SD	2.57	0.44
1:H:302:ASN:ND2	1:e:302:ASN:HD21	2.09	0.44
1:H:426:HIS:HD2	1:H:735:LEU:HA	1.82	0.44
1:I:431:ASP:O	1:I:475:ARG:NH2	2.48	0.44
1:K:273:PHE:CZ	1:K:386:ALA:HB2	2.53	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:302:ASN:HD21	1:4:302:ASN:ND2	2.10	0.44
1:K:552:VAL:HG13	1:1:462:PHE:HB2	2.00	0.44
1:L:692:LYS:NZ	1:Q:397:TYR:HE2	2.14	0.44
1:N:482:CYS:HB2	1:N:570:PRO:HG3	1.98	0.44
1:O:569:ASN:HD21	1:O:606:TRP:HB2	1.83	0.44
1:P:303:ASN:ND2	1:P:686:LEU:HD22	2.33	0.44
1:P:358:HIS:CE1	1:p:434:MET:HB2	2.51	0.44
1:P:545:GLN:NE2	1:P:719:VAL:HG12	2.32	0.44
1:S:303:ASN:ND2	1:S:686:LEU:HD22	2.33	0.44
1:T:482:CYS:HB2	1:T:570:PRO:HG3	1.98	0.44
1:V:288:HIS:CE1	1:V:364:PRO:HG3	2.53	0.44
1:a:431:ASP:O	1:a:475:ARG:NH2	2.48	0.44
1:c:429:SER:OG	1:c:431:ASP:OD1	2.23	0.44
1:c:718:GLY:HA2	1:r:257:TYR:O	2.17	0.44
1:d:397:TYR:HE2	1:f:692:LYS:NZ	2.14	0.44
1:d:711:ASP:HB3	1:d:723:PRO:HG3	1.99	0.44
1:e:692:LYS:NZ	1:3:397:TYR:HE2	2.14	0.44
1:g:350:LEU:HD21	1:g:398:PHE:HE2	1.80	0.44
1:h:540:LEU:O	1:h:540:LEU:HD12	2.17	0.44
1:i:540:LEU:HD12	1:i:540:LEU:O	2.17	0.44
1:i:711:ASP:HB3	1:i:723:PRO:HG3	1.99	0.44
1:j:426:HIS:HD2	1:j:735:LEU:HA	1.82	0.44
1:l:416:GLU:N	1:l:416:GLU:CD	2.74	0.44
1:l:540:LEU:O	1:l:540:LEU:HD12	2.17	0.44
1:m:482:CYS:HB2	1:m:570:PRO:HG3	1.98	0.44
1:o:413:TYR:CE2	1:o:643:PRO:HA	2.52	0.44
1:v:288:HIS:CE1	1:v:364:PRO:HG3	2.53	0.44
1:w:288:HIS:CE1	1:w:364:PRO:HG3	2.53	0.44
1:w:303:ASN:ND2	1:w:686:LEU:HD22	2.33	0.44
1:x:540:LEU:O	1:x:540:LEU:HD12	2.17	0.44
1:y:288:HIS:CE1	1:y:364:PRO:HG3	2.53	0.44
1:1:269:ASP:OD1	1:1:270:ASN:N	2.49	0.44
1:4:273:PHE:CZ	1:4:386:ALA:HB2	2.53	0.44
1:5:426:HIS:HD2	1:5:735:LEU:HA	1.82	0.44
1:5:482:CYS:HB2	1:5:570:PRO:HG3	1.98	0.44
1:8:482:CYS:HB2	1:8:570:PRO:HG3	1.98	0.44
1:A:273:PHE:CZ	1:A:386:ALA:HB2	2.53	0.44
1:B:462:PHE:HB2	1:4:552:VAL:HG13	2.00	0.44
1:C:350:LEU:HD21	1:C:398:PHE:HE2	1.80	0.44
1:C:545:GLN:NE2	1:C:719:VAL:HG12	2.32	0.44
1:D:545:GLN:NE2	1:D:719:VAL:HG12	2.32	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:243:SER:HB2	1:F:245:ARG:NH1	2.21	0.44
1:G:257:TYR:O	1:J:718:GLY:HA2	2.17	0.44
1:G:569:ASN:HD21	1:G:606:TRP:HB2	1.83	0.44
1:G:640:LYS:HE3	1:G:640:LYS:HB3	1.90	0.44
1:I:692:LYS:NZ	1:N:397:TYR:HE2	2.15	0.44
1:J:349:GLN:NE2	1:J:349:GLN:CA	2.73	0.44
1:J:545:GLN:NE2	1:J:719:VAL:HG12	2.32	0.44
1:K:288:HIS:CE1	1:K:364:PRO:HG3	2.52	0.44
1:L:431:ASP:OD2	1:Q:513:ARG:NE	2.48	0.44
1:L:552:VAL:HG13	1:Y:462:PHE:HB2	2.00	0.44
1:N:540:LEU:HD12	1:N:540:LEU:O	2.17	0.44
1:O:545:GLN:NE2	1:O:719:VAL:HG12	2.32	0.44
1:P:395:LEU:H	1:P:395:LEU:HG	1.48	0.44
1:Q:261:SER:HA	1:Q:272:TYR:O	2.18	0.44
1:Q:303:ASN:ND2	1:Q:686:LEU:HD22	2.33	0.44
1:R:482:CYS:HA	1:R:523:MET:SD	2.57	0.44
1:R:718:GLY:HA2	1:X:257:TYR:O	2.17	0.44
1:S:431:ASP:O	1:S:475:ARG:NH2	2.48	0.44
1:T:397:TYR:HE2	1:q:692:LYS:NZ	2.16	0.44
1:T:482:CYS:HA	1:T:523:MET:SD	2.57	0.44
1:V:480:GLY:HA3	1:V:606:TRP:HB3	1.98	0.44
1:W:257:TYR:O	1:4:718:GLY:HA2	2.17	0.44
1:W:413:TYR:CE2	1:W:643:PRO:HA	2.52	0.44
1:X:245:ARG:CD	1:X:366:PRO:HA	2.47	0.44
1:X:273:PHE:CZ	1:X:386:ALA:HB2	2.53	0.44
1:X:413:TYR:CE2	1:X:643:PRO:HA	2.52	0.44
1:a:413:TYR:CE2	1:a:643:PRO:HA	2.52	0.44
1:c:480:GLY:HA3	1:c:606:TRP:HB3	1.98	0.44
1:d:273:PHE:CZ	1:d:386:ALA:HB2	2.53	0.44
1:d:482:CYS:HB2	1:d:570:PRO:HG3	1.98	0.44
1:e:246:THR:HA	1:e:677:GLN:H	1.83	0.44
1:e:261:SER:HA	1:e:272:TYR:O	2.18	0.44
1:e:480:GLY:HA3	1:e:606:TRP:HB3	1.98	0.44
1:g:288:HIS:CE1	1:g:364:PRO:HG3	2.53	0.44
1:g:413:TYR:CE2	1:g:643:PRO:HA	2.53	0.44
1:i:397:TYR:HE2	1:u:692:LYS:NZ	2.15	0.44
1:i:482:CYS:HB2	1:i:570:PRO:HG3	1.98	0.44
1:l:545:GLN:NE2	1:l:719:VAL:HG12	2.32	0.44
1:l:569:ASN:HD21	1:l:606:TRP:HB2	1.83	0.44
1:m:711:ASP:HB3	1:m:723:PRO:HG3	1.98	0.44
1:n:273:PHE:CZ	1:n:386:ALA:HB2	2.53	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:n:288:HIS:CE1	1:n:364:PRO:HG3	2.53	0.44
1:n:367:ALA:HB2	1:q:257:TYR:HE2	1.83	0.44
1:o:245:ARG:CD	1:o:366:PRO:HA	2.47	0.44
1:p:480:GLY:HA3	1:p:606:TRP:HB3	1.98	0.44
1:r:246:THR:HA	1:r:677:GLN:H	1.83	0.44
1:r:303:ASN:ND2	1:r:686:LEU:HD22	2.33	0.44
1:r:718:GLY:HA2	1:w:257:TYR:O	2.18	0.44
1:t:666:PHE:HD2	1:2:369:VAL:HG13	1.83	0.44
1:x:397:TYR:HE2	1:z:692:LYS:NZ	2.14	0.44
1:y:480:GLY:HA3	1:y:606:TRP:HB3	1.98	0.44
1:y:482:CYS:HA	1:y:523:MET:SD	2.57	0.44
1:1:348:TYR:H	1:1:348:TYR:HD2	1.65	0.44
1:2:482:CYS:HA	1:2:523:MET:SD	2.57	0.44
1:2:711:ASP:HB3	1:2:723:PRO:HG3	1.99	0.44
1:3:413:TYR:CE2	1:3:643:PRO:HA	2.52	0.44
1:4:711:ASP:HB3	1:4:723:PRO:HG3	1.98	0.44
1:5:413:TYR:CE2	1:5:643:PRO:HA	2.52	0.44
1:6:413:TYR:CE2	1:6:643:PRO:HA	2.52	0.44
1:8:480:GLY:HA3	1:8:606:TRP:HB3	1.98	0.44
1:8:545:GLN:NE2	1:8:719:VAL:HG12	2.32	0.44
1:A:480:GLY:HA3	1:A:606:TRP:HB3	1.98	0.44
1:B:431:ASP:OD2	1:4:513:ARG:NE	2.48	0.44
1:C:552:VAL:HG13	1:r:462:PHE:HB2	1.99	0.44
1:C:569:ASN:HD21	1:C:606:TRP:HB2	1.83	0.44
1:D:257:TYR:O	1:m:718:GLY:HA2	2.17	0.44
1:F:480:GLY:HA3	1:F:606:TRP:HB3	1.98	0.44
1:F:718:GLY:HA2	1:U:257:TYR:O	2.17	0.44
1:H:288:HIS:CE1	1:H:364:PRO:HG3	2.53	0.44
1:K:513:ARG:NE	1:1:431:ASP:OD2	2.48	0.44
1:K:569:ASN:HD21	1:K:606:TRP:HB2	1.83	0.44
1:L:261:SER:HA	1:L:272:TYR:O	2.18	0.44
1:L:711:ASP:HB3	1:L:723:PRO:HG3	1.99	0.44
1:L:718:GLY:HA2	1:8:257:TYR:O	2.17	0.44
1:M:285:ASN:O	1:M:617:ILE:HG12	2.16	0.44
1:N:462:PHE:HB2	1:U:552:VAL:HG13	2.00	0.44
1:O:257:TYR:O	1:s:718:GLY:HA2	2.17	0.44
1:O:303:ASN:ND2	1:O:686:LEU:HD22	2.33	0.44
1:O:718:GLY:HA2	1:T:257:TYR:O	2.17	0.44
1:P:273:PHE:CZ	1:P:386:ALA:HB2	2.53	0.44
1:P:711:ASP:HB3	1:P:723:PRO:HG3	1.99	0.44
1:Q:692:LYS:NZ	1:Y:397:TYR:HE2	2.15	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:R:288:HIS:CE1	1:R:364:PRO:HG3	2.53	0.44
1:R:350:LEU:HD21	1:R:398:PHE:HE2	1.80	0.44
1:S:246:THR:HA	1:S:677:GLN:H	1.83	0.44
1:S:261:SER:HA	1:S:272:TYR:O	2.18	0.44
1:T:622:PRO:HG2	1:q:605:VAL:HG11	1.99	0.44
1:T:711:ASP:HB3	1:T:723:PRO:HG3	1.98	0.44
1:Y:261:SER:HA	1:Y:272:TYR:O	2.18	0.44
1:Y:288:HIS:CE1	1:Y:364:PRO:HG3	2.53	0.44
1:Y:718:GLY:HA2	1:e:257:TYR:O	2.16	0.44
1:Z:545:GLN:NE2	1:Z:719:VAL:HG12	2.32	0.44
1:Z:589:GLN:HA	1:h:496:ASN:ND2	2.33	0.44
1:a:397:TYR:HE2	1:c:692:LYS:NZ	2.14	0.44
1:b:261:SER:HA	1:b:272:TYR:O	2.18	0.44
1:b:288:HIS:CE1	1:b:364:PRO:HG3	2.53	0.44
1:c:243:SER:HB2	1:c:245:ARG:NH1	2.21	0.44
1:c:246:THR:HA	1:c:677:GLN:H	1.83	0.44
1:c:257:TYR:O	1:7:718:GLY:HA2	2.17	0.44
1:d:288:HIS:CE1	1:d:364:PRO:HG3	2.53	0.44
1:d:540:LEU:O	1:d:540:LEU:HD12	2.17	0.44
1:f:261:SER:HA	1:f:272:TYR:O	2.18	0.44
1:f:288:HIS:CE1	1:f:364:PRO:HG3	2.53	0.44
1:g:569:ASN:HD21	1:g:606:TRP:HB2	1.83	0.44
1:i:426:HIS:HD2	1:i:735:LEU:HA	1.82	0.44
1:k:545:GLN:NE2	1:k:719:VAL:HG12	2.32	0.44
1:l:303:ASN:ND2	1:l:686:LEU:HD22	2.32	0.44
1:n:245:ARG:CD	1:n:366:PRO:HA	2.47	0.44
1:n:246:THR:HA	1:n:677:GLN:H	1.83	0.44
1:n:482:CYS:HB2	1:n:570:PRO:HG3	1.98	0.44
1:n:540:LEU:HD12	1:n:540:LEU:O	2.17	0.44
1:o:273:PHE:CZ	1:o:386:ALA:HB2	2.53	0.44
1:q:288:HIS:CE1	1:q:364:PRO:HG3	2.53	0.44
1:q:350:LEU:HD21	1:q:398:PHE:HE2	1.80	0.44
1:q:711:ASP:HB3	1:q:723:PRO:HG3	1.99	0.44
1:r:261:SER:HA	1:r:272:TYR:O	2.18	0.44
1:s:257:TYR:O	1:y:718:GLY:HA2	2.17	0.44
1:s:348:TYR:H	1:s:348:TYR:HD2	1.65	0.44
1:t:569:ASN:HD21	1:t:606:TRP:HB2	1.83	0.44
1:u:302:ASN:ND2	1:x:302:ASN:HD21	2.10	0.44
1:v:273:PHE:CZ	1:v:386:ALA:HB2	2.53	0.44
1:v:480:GLY:HA3	1:v:606:TRP:HB3	1.98	0.44
1:w:431:ASP:O	1:w:475:ARG:NH2	2.48	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:w:540:LEU:O	1:w:540:LEU:HD12	2.17	0.44
1:x:303:ASN:ND2	1:x:686:LEU:HD22	2.33	0.44
1:z:261:SER:HA	1:z:272:TYR:O	2.18	0.44
1:z:552:VAL:HG13	1:7:462:PHE:HB2	2.00	0.44
1:1:640:LYS:HE3	1:1:640:LYS:HB3	1.89	0.44
1:3:431:ASP:O	1:3:475:ARG:NH2	2.48	0.44
1:4:288:HIS:CE1	1:4:364:PRO:HG3	2.53	0.44
1:4:569:ASN:HD21	1:4:606:TRP:HB2	1.83	0.44
1:5:288:HIS:CE1	1:5:364:PRO:HG3	2.53	0.44
1:7:261:SER:HA	1:7:272:TYR:O	2.18	0.44
1:8:426:HIS:HD2	1:8:735:LEU:HA	1.82	0.44
1:A:261:SER:HA	1:A:272:TYR:O	2.18	0.44
1:B:261:SER:HA	1:B:272:TYR:O	2.18	0.44
1:B:569:ASN:HD21	1:B:606:TRP:HB2	1.83	0.44
1:C:426:HIS:HD2	1:C:735:LEU:HA	1.81	0.44
1:D:413:TYR:CE2	1:D:643:PRO:HA	2.52	0.44
1:D:605:VAL:HG11	1:q:622:PRO:HG2	1.99	0.44
1:E:348:TYR:H	1:E:348:TYR:HD2	1.65	0.44
1:E:540:LEU:O	1:E:540:LEU:HD12	2.17	0.44
1:F:413:TYR:CE2	1:F:643:PRO:HA	2.52	0.44
1:G:666:PHE:HD2	1:J:369:VAL:HG13	1.83	0.44
1:H:482:CYS:HA	1:H:523:MET:SD	2.57	0.44
1:I:302:ASN:ND2	1:Q:302:ASN:HD21	2.10	0.44
1:I:552:VAL:HG13	1:U:462:PHE:HB2	2.00	0.44
1:J:552:VAL:HG13	1:P:462:PHE:HB2	2.00	0.44
1:L:273:PHE:CZ	1:L:386:ALA:HB2	2.53	0.44
1:M:496:ASN:ND2	1:8:589:GLN:HA	2.33	0.44
1:N:426:HIS:HD2	1:N:735:LEU:HA	1.82	0.44
1:P:261:SER:HA	1:P:272:TYR:O	2.18	0.44
1:P:482:CYS:HA	1:P:523:MET:SD	2.57	0.44
1:Q:413:TYR:CE2	1:Q:643:PRO:HA	2.52	0.44
1:Q:540:LEU:O	1:Q:540:LEU:HD12	2.17	0.44
1:R:482:CYS:HB2	1:R:570:PRO:HG3	1.98	0.44
1:R:711:ASP:HB3	1:R:723:PRO:HG3	1.99	0.44
1:T:369:VAL:HG13	1:k:666:PHE:HD2	1.83	0.44
1:W:484:ARG:NE	1:W:573:THR:O	2.51	0.44
1:X:288:HIS:CE1	1:X:364:PRO:HG3	2.53	0.44
1:X:552:VAL:HG13	1:l:462:PHE:HB2	2.00	0.44
1:X:569:ASN:HD21	1:X:606:TRP:HB2	1.83	0.44
1:Y:413:TYR:CE2	1:Y:643:PRO:HA	2.52	0.44
1:Z:246:THR:HA	1:Z:677:GLN:H	1.83	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Z:273:PHE:CZ	1:Z:386:ALA:HB2	2.53	0.44
1:Z:426:HIS:HD2	1:Z:735:LEU:HA	1.82	0.44
1:Z:431:ASP:OD2	1:h:513:ARG:NE	2.48	0.44
1:a:261:SER:HA	1:a:272:TYR:O	2.18	0.44
1:a:429:SER:OG	1:a:431:ASP:OD1	2.23	0.44
1:a:484:ARG:NE	1:a:573:THR:O	2.51	0.44
1:c:261:SER:HA	1:c:272:TYR:O	2.18	0.44
1:c:426:HIS:HD2	1:c:735:LEU:HA	1.82	0.44
1:d:245:ARG:CD	1:d:366:PRO:HA	2.47	0.44
1:d:246:THR:HA	1:d:677:GLN:H	1.83	0.44
1:e:426:HIS:HD2	1:e:735:LEU:HA	1.82	0.44
1:f:545:GLN:NE2	1:f:719:VAL:HG12	2.32	0.44
1:g:545:GLN:NE2	1:g:719:VAL:HG12	2.32	0.44
1:g:718:GLY:HA2	1:j:257:TYR:O	2.17	0.44
1:j:273:PHE:CZ	1:j:386:ALA:HB2	2.53	0.44
1:j:482:CYS:HA	1:j:523:MET:SD	2.57	0.44
1:j:589:GLN:HA	1:2:496:ASN:ND2	2.32	0.44
1:k:273:PHE:CZ	1:k:386:ALA:HB2	2.53	0.44
1:l:431:ASP:O	1:l:475:ARG:NH2	2.48	0.44
1:n:426:HIS:HD2	1:n:735:LEU:HA	1.82	0.44
1:o:288:HIS:CE1	1:o:364:PRO:HG3	2.53	0.44
1:q:303:ASN:ND2	1:q:686:LEU:HD22	2.33	0.44
1:q:525:SER:N	1:q:562:GLU:HB2	2.33	0.44
1:r:431:ASP:O	1:r:475:ARG:NH2	2.48	0.44
1:s:462:PHE:HB2	1:u:552:VAL:HG13	2.00	0.44
1:t:640:LYS:HE3	1:t:640:LYS:HB3	1.89	0.44
1:v:261:SER:HA	1:v:272:TYR:O	2.18	0.44
1:w:348:TYR:H	1:w:348:TYR:HD2	1.65	0.44
1:x:261:SER:HA	1:x:272:TYR:O	2.18	0.44
1:x:692:LYS:NZ	1:7:397:TYR:HE2	2.15	0.44
1:y:413:TYR:CE2	1:y:643:PRO:HA	2.52	0.44
1:z:273:PHE:CZ	1:z:386:ALA:HB2	2.53	0.44
1:1:569:ASN:HD21	1:1:606:TRP:HB2	1.83	0.44
1:3:429:SER:OG	1:3:431:ASP:OD1	2.23	0.44
1:3:484:ARG:NE	1:3:573:THR:O	2.51	0.44
1:4:245:ARG:CD	1:4:366:PRO:HA	2.47	0.44
1:7:245:ARG:CD	1:7:366:PRO:HA	2.47	0.44
1:7:288:HIS:CE1	1:7:364:PRO:HG3	2.53	0.44
1:A:302:ASN:ND2	1:Y:302:ASN:HD21	2.09	0.44
1:B:718:GLY:HA2	1:M:257:TYR:O	2.17	0.44
1:D:273:PHE:CZ	1:D:386:ALA:HB2	2.53	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:348:TYR:H	1:D:348:TYR:HD2	1.65	0.44
1:D:552:VAL:HG13	1:T:462:PHE:HB2	2.00	0.44
1:E:245:ARG:CD	1:E:366:PRO:HA	2.47	0.44
1:E:350:LEU:HD21	1:E:398:PHE:HE2	1.80	0.44
1:E:431:ASP:O	1:E:475:ARG:NH2	2.48	0.44
1:G:245:ARG:CD	1:G:366:PRO:HA	2.47	0.44
1:G:273:PHE:CZ	1:G:386:ALA:HB2	2.53	0.44
1:G:413:TYR:CE2	1:G:643:PRO:HA	2.53	0.44
1:G:540:LEU:HD12	1:G:540:LEU:O	2.17	0.44
1:G:552:VAL:HG13	1:M:462:PHE:HB2	2.00	0.44
1:G:692:LYS:NZ	1:8:397:TYR:HE2	2.14	0.44
1:I:416:GLU:N	1:I:416:GLU:CD	2.74	0.44
1:I:525:SER:N	1:I:562:GLU:HB2	2.33	0.44
1:J:245:ARG:CD	1:J:366:PRO:HA	2.47	0.44
1:J:261:SER:HA	1:J:272:TYR:O	2.18	0.44
1:J:274:GLY:HA3	1:J:377:TYR:O	2.18	0.44
1:J:303:ASN:ND2	1:J:686:LEU:HD22	2.33	0.44
1:J:413:TYR:CE2	1:J:643:PRO:HA	2.53	0.44
1:K:245:ARG:CD	1:K:366:PRO:HA	2.47	0.44
1:K:431:ASP:O	1:K:475:ARG:NH2	2.48	0.44
1:K:711:ASP:HB3	1:K:723:PRO:HG3	1.98	0.44
1:K:718:GLY:HA2	1:6:257:TYR:O	2.17	0.44
1:L:303:ASN:ND2	1:L:686:LEU:HD22	2.33	0.44
1:M:513:ARG:NE	1:8:431:ASP:OD2	2.48	0.44
1:R:257:TYR:O	1:d:718:GLY:HA2	2.17	0.44
1:R:303:ASN:ND2	1:R:686:LEU:HD22	2.33	0.44
1:R:589:GLN:HA	1:m:496:ASN:ND2	2.33	0.44
1:S:273:PHE:CZ	1:S:386:ALA:HB2	2.53	0.44
1:S:640:LYS:HE3	1:S:640:LYS:HB3	1.89	0.44
1:U:261:SER:HA	1:U:272:TYR:O	2.18	0.44
1:U:397:TYR:HD2	1:U:398:PHE:HD1	1.66	0.44
1:W:569:ASN:HD21	1:W:606:TRP:HB2	1.83	0.44
1:Y:245:ARG:CD	1:Y:366:PRO:HA	2.47	0.44
1:Y:545:GLN:NE2	1:Y:719:VAL:HG12	2.32	0.44
1:Z:261:SER:HA	1:Z:272:TYR:O	2.18	0.44
1:a:439:ASP:OD1	1:a:439:ASP:N	2.51	0.44
1:b:545:GLN:NE2	1:b:719:VAL:HG12	2.32	0.44
1:b:569:ASN:HD21	1:b:606:TRP:HB2	1.83	0.44
1:c:273:PHE:CZ	1:c:386:ALA:HB2	2.53	0.44
1:c:302:ASN:HD21	1:5:302:ASN:ND2	2.09	0.44
1:d:397:TYR:HD2	1:d:398:PHE:HD1	1.66	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:e:273:PHE:CZ	1:e:386:ALA:HB2	2.53	0.44
1:f:569:ASN:HD21	1:f:606:TRP:HB2	1.83	0.44
1:g:426:HIS:HD2	1:g:735:LEU:HA	1.82	0.44
1:g:484:ARG:NE	1:g:573:THR:O	2.51	0.44
1:h:273:PHE:CZ	1:h:386:ALA:HB2	2.53	0.44
1:h:285:ASN:O	1:h:617:ILE:HG12	2.16	0.44
1:h:349:GLN:HE21	1:h:349:GLN:CA	2.04	0.44
1:h:710:VAL:HG11	1:2:695:ASN:HD21	1.83	0.44
1:i:462:PHE:HB2	1:s:552:VAL:HG13	2.00	0.44
1:k:552:VAL:HG13	1:m:462:PHE:HB2	2.00	0.44
1:l:718:GLY:HA2	1:m:257:TYR:O	2.17	0.44
1:o:569:ASN:HD21	1:o:606:TRP:HB2	1.83	0.44
1:q:482:CYS:HB2	1:q:570:PRO:HG3	1.98	0.44
1:r:395:LEU:H	1:r:395:LEU:HG	1.48	0.44
1:s:261:SER:HA	1:s:272:TYR:O	2.18	0.44
1:s:350:LEU:HD21	1:s:398:PHE:HE2	1.80	0.44
1:t:273:PHE:CZ	1:t:386:ALA:HB2	2.53	0.44
1:t:413:TYR:CE2	1:t:643:PRO:HA	2.52	0.44
1:t:540:LEU:O	1:t:540:LEU:HD12	2.17	0.44
1:u:525:SER:N	1:u:562:GLU:HB2	2.33	0.44
1:v:413:TYR:CE2	1:v:643:PRO:HA	2.52	0.44
1:w:245:ARG:CD	1:w:366:PRO:HA	2.47	0.44
1:x:273:PHE:CZ	1:x:386:ALA:HB2	2.53	0.44
1:x:413:TYR:CE2	1:x:643:PRO:HA	2.52	0.44
1:y:243:SER:HB2	1:y:245:ARG:NH1	2.21	0.44
1:y:348:TYR:H	1:y:348:TYR:HD2	1.65	0.44
1:z:711:ASP:HB3	1:z:723:PRO:HG3	1.99	0.44
1:1:261:SER:HA	1:1:272:TYR:O	2.18	0.44
1:1:310:ARG:NE	1:1:683:GLU:OE1	2.41	0.44
1:2:245:ARG:CD	1:2:366:PRO:HA	2.47	0.44
1:2:261:SER:HA	1:2:272:TYR:O	2.18	0.44
1:2:274:GLY:HA3	1:2:377:TYR:O	2.18	0.44
1:2:303:ASN:ND2	1:2:686:LEU:HD22	2.32	0.44
1:2:413:TYR:CE2	1:2:643:PRO:HA	2.52	0.44
1:2:540:LEU:O	1:2:540:LEU:HD12	2.17	0.44
1:2:545:GLN:NE2	1:2:719:VAL:HG12	2.32	0.44
1:3:261:SER:HA	1:3:272:TYR:O	2.18	0.44
1:3:439:ASP:OD1	1:3:439:ASP:N	2.51	0.44
1:5:482:CYS:HA	1:5:523:MET:SD	2.57	0.44
1:6:431:ASP:O	1:6:475:ARG:NH2	2.48	0.44
1:6:484:ARG:NE	1:6:573:THR:O	2.51	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:6:569:ASN:HD21	1:6:606:TRP:HB2	1.83	0.44
1:7:413:TYR:CE2	1:7:643:PRO:HA	2.52	0.44
1:8:273:PHE:CZ	1:8:386:ALA:HB2	2.53	0.44
1:8:711:ASP:HB3	1:8:723:PRO:HG3	1.99	0.44
1:A:413:TYR:CE2	1:A:643:PRO:HA	2.52	0.44
1:B:273:PHE:CZ	1:B:386:ALA:HB2	2.53	0.44
1:B:545:GLN:NE2	1:B:719:VAL:HG12	2.32	0.44
1:B:640:LYS:HE3	1:B:640:LYS:HB3	1.89	0.44
1:C:303:ASN:ND2	1:C:686:LEU:HD22	2.32	0.44
1:C:484:ARG:NE	1:C:573:THR:O	2.51	0.44
1:C:718:GLY:HA2	1:P:257:TYR:O	2.17	0.44
1:D:261:SER:HA	1:D:272:TYR:O	2.18	0.44
1:E:397:TYR:HE2	1:X:692:LYS:NZ	2.14	0.44
1:F:246:THR:HA	1:F:677:GLN:H	1.83	0.44
1:F:545:GLN:NE2	1:F:719:VAL:HG12	2.32	0.44
1:G:274:GLY:HA3	1:G:377:TYR:O	2.18	0.44
1:G:303:ASN:ND2	1:G:686:LEU:HD22	2.32	0.44
1:G:397:TYR:HE2	1:M:692:LYS:NZ	2.14	0.44
1:G:484:ARG:NE	1:G:573:THR:O	2.51	0.44
1:H:246:THR:HA	1:H:677:GLN:H	1.83	0.44
1:J:273:PHE:CZ	1:J:386:ALA:HB2	2.53	0.44
1:J:462:PHE:HB2	1:p:552:VAL:HG13	1.99	0.44
1:M:246:THR:HA	1:M:677:GLN:H	1.83	0.44
1:M:273:PHE:CZ	1:M:386:ALA:HB2	2.53	0.44
1:M:525:SER:N	1:M:562:GLU:HB2	2.33	0.44
1:N:273:PHE:CZ	1:N:386:ALA:HB2	2.53	0.44
1:N:545:GLN:NE2	1:N:719:VAL:HG12	2.32	0.44
1:O:288:HIS:CE1	1:O:364:PRO:HG3	2.53	0.44
1:O:431:ASP:O	1:O:475:ARG:NH2	2.48	0.44
1:O:462:PHE:HB2	1:o:552:VAL:HG13	2.00	0.44
1:P:288:HIS:CE1	1:P:364:PRO:HG3	2.53	0.44
1:R:525:SER:N	1:R:562:GLU:HB2	2.33	0.44
1:S:589:GLN:HA	1:g:496:ASN:ND2	2.32	0.44
1:T:261:SER:HA	1:T:272:TYR:O	2.18	0.44
1:T:303:ASN:ND2	1:T:686:LEU:HD22	2.33	0.44
1:T:358:HIS:CE1	1:q:434:MET:HB2	2.53	0.44
1:T:718:GLY:HA2	1:k:257:TYR:O	2.17	0.44
1:U:273:PHE:CZ	1:U:386:ALA:HB2	2.53	0.44
1:U:288:HIS:CE1	1:U:364:PRO:HG3	2.53	0.44
1:U:348:TYR:H	1:U:348:TYR:HD2	1.65	0.44
1:U:350:LEU:HD21	1:U:398:PHE:HE2	1.80	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:U:540:LEU:O	1:U:540:LEU:HD12	2.17	0.44
1:V:413:TYR:CE2	1:V:643:PRO:HA	2.52	0.44
1:W:540:LEU:HD12	1:W:540:LEU:O	2.17	0.44
1:X:540:LEU:O	1:X:540:LEU:HD12	2.17	0.44
1:X:614:GLN:N	1:X:614:GLN:OE1	2.51	0.44
1:Z:257:TYR:O	1:z:718:GLY:HA2	2.17	0.44
1:Z:288:HIS:CE1	1:Z:364:PRO:HG3	2.53	0.44
1:Z:397:TYR:HE2	1:t:692:LYS:NZ	2.14	0.44
1:a:525:SER:N	1:a:562:GLU:HB2	2.33	0.44
1:c:274:GLY:HA3	1:c:377:TYR:O	2.18	0.44
1:c:345:ASP:O	1:c:346:SER:CB	2.54	0.44
1:c:369:VAL:HG13	1:r:666:PHE:HD2	1.83	0.44
1:c:552:VAL:HG13	1:v:462:PHE:HB2	2.00	0.44
1:d:274:GLY:HA3	1:d:377:TYR:O	2.18	0.44
1:d:426:HIS:HD2	1:d:735:LEU:HA	1.82	0.44
1:d:484:ARG:NE	1:d:573:THR:O	2.51	0.44
1:e:274:GLY:HA3	1:e:377:TYR:O	2.18	0.44
1:e:429:SER:OG	1:e:431:ASP:OD1	2.23	0.44
1:e:569:ASN:HD21	1:e:606:TRP:HB2	1.83	0.44
1:f:302:ASN:ND2	1:j:302:ASN:HD21	2.09	0.44
1:h:462:PHE:HB2	1:t:552:VAL:HG13	2.00	0.44
1:h:525:SER:N	1:h:562:GLU:HB2	2.33	0.44
1:h:692:LYS:NZ	1:t:397:TYR:HE2	2.14	0.44
1:i:431:ASP:O	1:i:475:ARG:NH2	2.48	0.44
1:i:545:GLN:NE2	1:i:719:VAL:HG12	2.32	0.44
1:j:261:SER:HA	1:j:272:TYR:O	2.18	0.44
1:j:711:ASP:HB3	1:j:723:PRO:HG3	1.99	0.44
1:l:245:ARG:CD	1:l:366:PRO:HA	2.47	0.44
1:m:303:ASN:ND2	1:m:686:LEU:HD22	2.33	0.44
1:n:397:TYR:HD2	1:n:398:PHE:HD1	1.66	0.44
1:n:484:ARG:NE	1:n:573:THR:O	2.51	0.44
1:o:692:LYS:NZ	1:w:397:TYR:HE2	2.14	0.44
1:r:273:PHE:CZ	1:r:386:ALA:HB2	2.53	0.44
1:s:273:PHE:CZ	1:s:386:ALA:HB2	2.53	0.44
1:s:288:HIS:CE1	1:s:364:PRO:HG3	2.53	0.44
1:s:397:TYR:HD2	1:s:398:PHE:HD1	1.66	0.44
1:s:540:LEU:O	1:s:540:LEU:HD12	2.17	0.44
1:t:245:ARG:CD	1:t:366:PRO:HA	2.47	0.44
1:t:274:GLY:HA3	1:t:377:TYR:O	2.18	0.44
1:t:303:ASN:ND2	1:t:686:LEU:HD22	2.33	0.44
1:u:288:HIS:CE1	1:u:364:PRO:HG3	2.53	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:u:416:GLU:N	1:u:416:GLU:CD	2.74	0.44
1:u:467:ALA:HA	1:u:470:ILE:HD11	2.00	0.44
1:v:302:ASN:ND2	1:7:302:ASN:HD21	2.09	0.44
1:w:246:THR:HA	1:w:677:GLN:H	1.83	0.44
1:x:416:GLU:N	1:x:416:GLU:CD	2.74	0.44
1:y:273:PHE:CZ	1:y:386:ALA:HB2	2.53	0.44
1:y:397:TYR:HD2	1:y:398:PHE:HD1	1.66	0.44
1:z:569:ASN:HD21	1:z:606:TRP:HB2	1.83	0.44
1:1:273:PHE:CZ	1:1:386:ALA:HB2	2.53	0.44
1:2:273:PHE:CZ	1:2:386:ALA:HB2	2.53	0.44
1:2:349:GLN:NE2	1:2:349:GLN:CA	2.73	0.44
1:4:431:ASP:O	1:4:475:ARG:NH2	2.48	0.44
1:7:545:GLN:NE2	1:7:719:VAL:HG12	2.32	0.44
1:8:246:THR:HA	1:8:677:GLN:H	1.83	0.44
1:8:261:SER:HA	1:8:272:TYR:O	2.18	0.44
1:8:288:HIS:CE1	1:8:364:PRO:HG3	2.53	0.44
1:B:288:HIS:CE1	1:B:364:PRO:HG3	2.53	0.44
1:C:540:LEU:HD12	1:C:540:LEU:O	2.17	0.44
1:C:692:LYS:NZ	1:5:397:TYR:HE2	2.15	0.44
1:E:246:THR:HA	1:E:677:GLN:H	1.83	0.44
1:E:273:PHE:CZ	1:E:386:ALA:HB2	2.53	0.44
1:F:273:PHE:CZ	1:F:386:ALA:HB2	2.53	0.44
1:F:348:TYR:H	1:F:348:TYR:HD2	1.65	0.44
1:F:397:TYR:HD2	1:F:398:PHE:HD1	1.66	0.44
1:H:397:TYR:HE2	1:g:692:LYS:NZ	2.15	0.44
1:I:246:THR:HA	1:I:677:GLN:H	1.83	0.44
1:I:288:HIS:CE1	1:I:364:PRO:HG3	2.53	0.44
1:I:467:ALA:HA	1:I:470:ILE:HD11	2.00	0.44
1:I:589:GLN:HA	1:N:496:ASN:ND2	2.33	0.44
1:J:288:HIS:CE1	1:J:364:PRO:HG3	2.53	0.44
1:J:540:LEU:HD12	1:J:540:LEU:O	2.17	0.44
1:K:369:VAL:HG13	1:6:666:PHE:HD2	1.83	0.44
1:L:569:ASN:HD21	1:L:606:TRP:HB2	1.83	0.44
1:L:614:GLN:N	1:L:614:GLN:OE1	2.51	0.44
1:P:246:THR:HA	1:P:677:GLN:H	1.83	0.44
1:Q:245:ARG:CD	1:Q:366:PRO:HA	2.47	0.44
1:Q:273:PHE:CZ	1:Q:386:ALA:HB2	2.53	0.44
1:Q:416:GLU:N	1:Q:416:GLU:CD	2.74	0.44
1:S:397:TYR:HD2	1:S:398:PHE:HD1	1.66	0.44
1:S:525:SER:N	1:S:562:GLU:HB2	2.33	0.44
1:S:614:GLN:N	1:S:614:GLN:OE1	2.51	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:T:614:GLN:N	1:T:614:GLN:OE1	2.51	0.44
1:U:525:SER:N	1:U:562:GLU:HB2	2.33	0.44
1:V:245:ARG:CD	1:V:366:PRO:HA	2.47	0.44
1:V:303:ASN:ND2	1:V:686:LEU:HD22	2.33	0.44
1:W:431:ASP:O	1:W:475:ARG:NH2	2.48	0.44
1:Y:303:ASN:ND2	1:Y:686:LEU:HD22	2.33	0.44
1:Z:711:ASP:HB3	1:Z:723:PRO:HG3	1.99	0.44
1:a:589:GLN:HA	1:v:496:ASN:ND2	2.33	0.44
1:b:274:GLY:HA3	1:b:377:TYR:O	2.18	0.44
1:b:540:LEU:HD12	1:b:540:LEU:O	2.17	0.44
1:c:569:ASN:HD21	1:c:606:TRP:HB2	1.83	0.44
1:d:545:GLN:NE2	1:d:719:VAL:HG12	2.32	0.44
1:e:243:SER:HB2	1:e:245:ARG:NH1	2.21	0.44
1:e:345:ASP:O	1:e:346:SER:CB	2.54	0.44
1:e:462:PHE:HB2	1:3:552:VAL:HG13	2.00	0.44
1:g:348:TYR:H	1:g:348:TYR:HD2	1.65	0.44
1:g:525:SER:N	1:g:562:GLU:HB2	2.33	0.44
1:h:257:TYR:O	1:1:718:GLY:HA2	2.17	0.44
1:i:413:TYR:CE2	1:i:643:PRO:HA	2.52	0.44
1:i:429:SER:OG	1:i:431:ASP:OD1	2.23	0.44
1:j:246:THR:HA	1:j:677:GLN:H	1.83	0.44
1:j:288:HIS:CE1	1:j:364:PRO:HG3	2.53	0.44
1:j:395:LEU:H	1:j:395:LEU:HG	1.48	0.44
1:j:614:GLN:N	1:j:614:GLN:OE1	2.51	0.44
1:k:261:SER:HA	1:k:272:TYR:O	2.18	0.44
1:k:413:TYR:CE2	1:k:643:PRO:HA	2.52	0.44
1:l:288:HIS:CE1	1:l:364:PRO:HG3	2.53	0.44
1:l:614:GLN:N	1:l:614:GLN:OE1	2.51	0.44
1:m:348:TYR:H	1:m:348:TYR:HD2	1.65	0.44
1:m:614:GLN:N	1:m:614:GLN:OE1	2.51	0.44
1:n:274:GLY:HA3	1:n:377:TYR:O	2.18	0.44
1:n:614:GLN:N	1:n:614:GLN:OE1	2.51	0.44
1:o:614:GLN:N	1:o:614:GLN:OE1	2.51	0.44
1:p:245:ARG:CD	1:p:366:PRO:HA	2.47	0.44
1:p:303:ASN:ND2	1:p:686:LEU:HD22	2.33	0.44
1:p:413:TYR:CE2	1:p:643:PRO:HA	2.52	0.44
1:q:261:SER:HA	1:q:272:TYR:O	2.18	0.44
1:q:413:TYR:CE2	1:q:643:PRO:HA	2.52	0.44
1:q:426:HIS:HD2	1:q:735:LEU:HA	1.82	0.44
1:q:431:ASP:O	1:q:475:ARG:NH2	2.48	0.44
1:r:397:TYR:HD2	1:r:398:PHE:HD1	1.66	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:r:552:VAL:HG13	1:5:462:PHE:HB2	2.00	0.44
1:r:614:GLN:N	1:r:614:GLN:OE1	2.51	0.44
1:s:525:SER:N	1:s:562:GLU:HB2	2.33	0.44
1:t:484:ARG:NE	1:t:573:THR:O	2.51	0.44
1:w:273:PHE:CZ	1:w:386:ALA:HB2	2.53	0.44
1:x:245:ARG:CD	1:x:366:PRO:HA	2.47	0.44
1:x:350:LEU:CG	1:x:398:PHE:HE2	2.31	0.44
1:z:303:ASN:ND2	1:z:686:LEU:HD22	2.33	0.44
1:z:480:GLY:HA3	1:z:606:TRP:HB3	1.98	0.44
1:1:288:HIS:CE1	1:1:364:PRO:HG3	2.53	0.44
1:1:484:ARG:NE	1:1:573:THR:O	2.51	0.44
1:1:545:GLN:NE2	1:1:719:VAL:HG12	2.32	0.44
1:3:525:SER:N	1:3:562:GLU:HB2	2.33	0.44
1:4:484:ARG:NE	1:4:573:THR:O	2.51	0.44
1:5:484:ARG:NE	1:5:573:THR:O	2.51	0.44
1:6:540:LEU:O	1:6:540:LEU:HD12	2.17	0.44
1:8:540:LEU:HD12	1:8:540:LEU:O	2.17	0.44
1:B:245:ARG:CD	1:B:366:PRO:HA	2.47	0.43
1:B:350:LEU:CG	1:B:398:PHE:HE2	2.31	0.43
1:B:484:ARG:NE	1:B:573:THR:O	2.51	0.43
1:C:348:TYR:H	1:C:348:TYR:HD2	1.65	0.43
1:C:525:SER:N	1:C:562:GLU:HB2	2.33	0.43
1:D:614:GLN:N	1:D:614:GLN:OE1	2.51	0.43
1:D:666:PHE:HD2	1:m:369:VAL:HG13	1.83	0.43
1:D:692:LYS:HB3	1:q:398:PHE:HE1	1.83	0.43
1:E:614:GLN:N	1:E:614:GLN:OE1	2.51	0.43
1:F:462:PHE:HB2	1:b:552:VAL:HG13	2.00	0.43
1:F:525:SER:N	1:F:562:GLU:HB2	2.33	0.43
1:G:246:THR:HA	1:G:677:GLN:H	1.83	0.43
1:H:484:ARG:NE	1:H:573:THR:O	2.51	0.43
1:K:397:TYR:HE2	1:1:692:LYS:HZ1	1.66	0.43
1:K:484:ARG:NE	1:K:573:THR:O	2.51	0.43
1:L:462:PHE:HB2	1:Q:552:VAL:HG13	2.00	0.43
1:L:467:ALA:HA	1:L:470:ILE:HD11	2.00	0.43
1:L:480:GLY:HA3	1:L:606:TRP:HB3	1.98	0.43
1:N:413:TYR:CE2	1:N:643:PRO:HA	2.52	0.43
1:N:480:GLY:HA3	1:N:606:TRP:HB3	1.98	0.43
1:O:245:ARG:CD	1:O:366:PRO:HA	2.47	0.43
1:O:273:PHE:CZ	1:O:386:ALA:HB2	2.53	0.43
1:O:614:GLN:OE1	1:O:614:GLN:N	2.51	0.43
1:P:614:GLN:N	1:P:614:GLN:OE1	2.51	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Q:462:PHE:HB2	1:Y:552:VAL:HG13	2.00	0.43
1:R:467:ALA:HA	1:R:470:ILE:HD11	2.00	0.43
1:R:484:ARG:NE	1:R:573:THR:O	2.51	0.43
1:S:484:ARG:NE	1:S:573:THR:O	2.51	0.43
1:U:303:ASN:ND2	1:U:686:LEU:HD22	2.33	0.43
1:V:273:PHE:CZ	1:V:386:ALA:HB2	2.53	0.43
1:V:614:GLN:N	1:V:614:GLN:OE1	2.51	0.43
1:W:545:GLN:NE2	1:W:719:VAL:HG12	2.32	0.43
1:X:397:TYR:HD2	1:X:398:PHE:HD1	1.66	0.43
1:Y:246:THR:HA	1:Y:677:GLN:H	1.83	0.43
1:a:350:LEU:HD21	1:a:398:PHE:HE2	1.80	0.43
1:a:426:HIS:HD2	1:a:735:LEU:HA	1.82	0.43
1:a:552:VAL:HG13	1:c:462:PHE:HB2	2.00	0.43
1:b:273:PHE:CZ	1:b:386:ALA:HB2	2.53	0.43
1:b:350:LEU:CG	1:b:398:PHE:HE2	2.31	0.43
1:b:614:GLN:N	1:b:614:GLN:OE1	2.51	0.43
1:c:484:ARG:NE	1:c:573:THR:O	2.51	0.43
1:c:496:ASN:ND2	1:v:589:GLN:HA	2.33	0.43
1:d:614:GLN:N	1:d:614:GLN:OE1	2.51	0.43
1:e:484:ARG:NE	1:e:573:THR:O	2.51	0.43
1:e:545:GLN:NE2	1:e:719:VAL:HG12	2.32	0.43
1:f:273:PHE:CZ	1:f:386:ALA:HB2	2.53	0.43
1:f:274:GLY:HA3	1:f:377:TYR:O	2.18	0.43
1:f:540:LEU:HD12	1:f:540:LEU:O	2.17	0.43
1:h:246:THR:HA	1:h:677:GLN:H	1.83	0.43
1:h:397:TYR:HD2	1:h:398:PHE:HD1	1.66	0.43
1:i:273:PHE:CZ	1:i:386:ALA:HB2	2.53	0.43
1:i:480:GLY:HA3	1:i:606:TRP:HB3	1.98	0.43
1:i:496:ASN:ND2	1:u:589:GLN:HA	2.33	0.43
1:k:348:TYR:H	1:k:348:TYR:HD2	1.65	0.43
1:k:614:GLN:N	1:k:614:GLN:OE1	2.51	0.43
1:m:261:SER:HA	1:m:272:TYR:O	2.18	0.43
1:n:467:ALA:HA	1:n:470:ILE:HD11	2.00	0.43
1:o:397:TYR:HD2	1:o:398:PHE:HD1	1.66	0.43
1:o:525:SER:N	1:o:562:GLU:HB2	2.33	0.43
1:o:540:LEU:O	1:o:540:LEU:HD12	2.17	0.43
1:p:614:GLN:N	1:p:614:GLN:OE1	2.51	0.43
1:r:525:SER:N	1:r:562:GLU:HB2	2.33	0.43
1:t:246:THR:HA	1:t:677:GLN:H	1.83	0.43
1:u:246:THR:HA	1:u:677:GLN:H	1.83	0.43
1:w:350:LEU:HD21	1:w:398:PHE:HE2	1.80	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:w:614:GLN:OE1	1:w:614:GLN:N	2.51	0.43
1:x:552:VAL:HG13	1:z:462:PHE:HB2	2.00	0.43
1:y:246:THR:HA	1:y:677:GLN:H	1.83	0.43
1:y:545:GLN:NE2	1:y:719:VAL:HG12	2.32	0.43
1:z:348:TYR:H	1:z:348:TYR:HD2	1.65	0.43
1:z:439:ASP:OD1	1:z:439:ASP:N	2.51	0.43
1:z:614:GLN:N	1:z:614:GLN:OE1	2.51	0.43
1:1:274:GLY:HA3	1:1:377:TYR:O	2.18	0.43
1:3:614:GLN:N	1:3:614:GLN:OE1	2.51	0.43
1:4:303:ASN:ND2	1:4:686:LEU:HD22	2.33	0.43
1:5:246:THR:HA	1:5:677:GLN:H	1.83	0.43
1:5:273:PHE:CZ	1:5:386:ALA:HB2	2.53	0.43
1:7:303:ASN:ND2	1:7:686:LEU:HD22	2.33	0.43
1:7:484:ARG:NE	1:7:573:THR:O	2.51	0.43
1:8:467:ALA:HA	1:8:470:ILE:HD11	2.00	0.43
1:A:431:ASP:O	1:A:475:ARG:NH2	2.48	0.43
1:B:274:GLY:HA3	1:B:377:TYR:O	2.18	0.43
1:B:369:VAL:HG13	1:M:666:PHE:HD2	1.83	0.43
1:C:261:SER:HA	1:C:272:TYR:O	2.18	0.43
1:C:369:VAL:HG13	1:P:666:PHE:HD2	1.83	0.43
1:D:462:PHE:HB2	1:q:552:VAL:HG13	1.99	0.43
1:D:467:ALA:HA	1:D:470:ILE:HD11	2.00	0.43
1:F:365:PHE:HA	1:F:366:PRO:HD3	1.91	0.43
1:F:484:ARG:NE	1:F:573:THR:O	2.51	0.43
1:H:273:PHE:CZ	1:H:386:ALA:HB2	2.53	0.43
1:I:462:PHE:HB2	1:N:552:VAL:HG13	2.00	0.43
1:K:303:ASN:ND2	1:K:686:LEU:HD22	2.33	0.43
1:L:439:ASP:OD1	1:L:439:ASP:N	2.51	0.43
1:L:484:ARG:NE	1:L:573:THR:O	2.51	0.43
1:M:397:TYR:HD2	1:M:398:PHE:HD1	1.66	0.43
1:M:711:ASP:HB3	1:M:723:PRO:HG3	1.98	0.43
1:N:614:GLN:N	1:N:614:GLN:OE1	2.51	0.43
1:O:484:ARG:NE	1:O:573:THR:O	2.51	0.43
1:P:302:ASN:HD21	1:b:302:ASN:ND2	2.09	0.43
1:P:484:ARG:NE	1:P:573:THR:O	2.51	0.43
1:Q:288:HIS:CE1	1:Q:364:PRO:HG3	2.53	0.43
1:Q:350:LEU:CG	1:Q:398:PHE:HE2	2.32	0.43
1:R:261:SER:HA	1:R:272:TYR:O	2.18	0.43
1:R:413:TYR:CE2	1:R:643:PRO:HA	2.52	0.43
1:R:431:ASP:O	1:R:475:ARG:NH2	2.48	0.43
1:S:666:PHE:HD2	1:e:369:VAL:HG13	1.83	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:T:348:TYR:H	1:T:348:TYR:HD2	1.65	0.43
1:T:484:ARG:NE	1:T:573:THR:O	2.51	0.43
1:T:525:SER:N	1:T:562:GLU:HB2	2.33	0.43
1:U:614:GLN:N	1:U:614:GLN:OE1	2.51	0.43
1:V:261:SER:HA	1:V:272:TYR:O	2.18	0.43
1:V:552:VAL:HG13	1:2:462:PHE:HB2	2.00	0.43
1:W:261:SER:HA	1:W:272:TYR:O	2.18	0.43
1:W:350:LEU:CG	1:W:398:PHE:HE2	2.31	0.43
1:W:666:PHE:HD2	1:4:369:VAL:HG13	1.83	0.43
1:X:525:SER:N	1:X:562:GLU:HB2	2.33	0.43
1:Y:484:ARG:NE	1:Y:573:THR:O	2.51	0.43
1:Z:274:GLY:HA3	1:Z:377:TYR:O	2.18	0.43
1:Z:302:ASN:ND2	1:1:302:ASN:HD21	2.09	0.43
1:Z:540:LEU:HD12	1:Z:540:LEU:O	2.17	0.43
1:a:245:ARG:CD	1:a:366:PRO:HA	2.47	0.43
1:a:614:GLN:N	1:a:614:GLN:OE1	2.51	0.43
1:d:467:ALA:HA	1:d:470:ILE:HD11	2.00	0.43
1:f:350:LEU:CG	1:f:398:PHE:HE2	2.31	0.43
1:f:614:GLN:N	1:f:614:GLN:OE1	2.51	0.43
1:g:261:SER:HA	1:g:272:TYR:O	2.18	0.43
1:g:303:ASN:ND2	1:g:686:LEU:HD22	2.33	0.43
1:h:288:HIS:CE1	1:h:364:PRO:HG3	2.53	0.43
1:h:545:GLN:NE2	1:h:719:VAL:HG12	2.32	0.43
1:h:666:PHE:HD2	1:1:369:VAL:HG13	1.83	0.43
1:h:711:ASP:HB3	1:h:723:PRO:HG3	1.99	0.43
1:j:274:GLY:HA3	1:j:377:TYR:O	2.18	0.43
1:j:484:ARG:NE	1:j:573:THR:O	2.51	0.43
1:k:397:TYR:HD2	1:k:398:PHE:HD1	1.66	0.43
1:k:439:ASP:OD1	1:k:439:ASP:N	2.51	0.43
1:k:540:LEU:HD12	1:k:540:LEU:O	2.17	0.43
1:l:273:PHE:CZ	1:l:386:ALA:HB2	2.53	0.43
1:l:484:ARG:NE	1:l:573:THR:O	2.51	0.43
1:m:350:LEU:CG	1:m:398:PHE:HE2	2.32	0.43
1:m:525:SER:N	1:m:562:GLU:HB2	2.33	0.43
1:n:545:GLN:NE2	1:n:719:VAL:HG12	2.32	0.43
1:p:273:PHE:CZ	1:p:386:ALA:HB2	2.53	0.43
1:q:467:ALA:HA	1:q:470:ILE:HD11	2.00	0.43
1:q:484:ARG:NE	1:q:573:THR:O	2.51	0.43
1:r:484:ARG:NE	1:r:573:THR:O	2.51	0.43
1:s:246:THR:HA	1:s:677:GLN:H	1.83	0.43
1:s:303:ASN:ND2	1:s:686:LEU:HD22	2.33	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:s:614:GLN:N	1:s:614:GLN:OE1	2.51	0.43
1:v:431:ASP:O	1:v:475:ARG:NH2	2.48	0.43
1:x:397:TYR:HD2	1:x:398:PHE:HD1	1.66	0.43
1:x:462:PHE:HB2	1:7:552:VAL:HG13	2.00	0.43
1:x:467:ALA:HA	1:x:470:ILE:HD11	2.00	0.43
1:x:569:ASN:HD21	1:x:606:TRP:HB2	1.83	0.43
1:y:525:SER:N	1:y:562:GLU:HB2	2.33	0.43
1:z:246:THR:HA	1:z:677:GLN:H	1.83	0.43
1:z:467:ALA:HA	1:z:470:ILE:HD11	2.00	0.43
1:1:245:ARG:CD	1:1:366:PRO:HA	2.47	0.43
1:1:350:LEU:CG	1:1:398:PHE:HE2	2.31	0.43
1:2:288:HIS:CE1	1:2:364:PRO:HG3	2.53	0.43
1:3:246:THR:HA	1:3:677:GLN:H	1.83	0.43
1:3:350:LEU:HD21	1:3:398:PHE:HE2	1.80	0.43
1:7:246:THR:HA	1:7:677:GLN:H	1.83	0.43
1:A:397:TYR:HD2	1:A:398:PHE:HD1	1.66	0.43
1:A:496:ASN:ND2	1:3:589:GLN:HA	2.33	0.43
1:D:439:ASP:OD1	1:D:439:ASP:N	2.51	0.43
1:D:540:LEU:HD12	1:D:540:LEU:O	2.17	0.43
1:E:274:GLY:HA3	1:E:377:TYR:O	2.18	0.43
1:E:484:ARG:NE	1:E:573:THR:O	2.51	0.43
1:E:718:GLY:HA2	1:I:257:TYR:O	2.17	0.43
1:H:397:TYR:HD2	1:H:398:PHE:HD1	1.66	0.43
1:H:711:ASP:HB3	1:H:723:PRO:HG3	1.99	0.43
1:I:614:GLN:N	1:I:614:GLN:OE1	2.51	0.43
1:J:397:TYR:HD2	1:J:398:PHE:HD1	1.66	0.43
1:L:245:ARG:CD	1:L:366:PRO:HA	2.47	0.43
1:L:348:TYR:H	1:L:348:TYR:HD2	1.65	0.43
1:L:350:LEU:CG	1:L:398:PHE:HE2	2.31	0.43
1:M:288:HIS:CE1	1:M:364:PRO:HG3	2.53	0.43
1:M:569:ASN:HD21	1:M:606:TRP:HB2	1.83	0.43
1:O:439:ASP:OD1	1:O:439:ASP:N	2.51	0.43
1:P:274:GLY:HA3	1:P:377:TYR:O	2.18	0.43
1:P:350:LEU:CG	1:P:398:PHE:HE2	2.31	0.43
1:P:416:GLU:N	1:P:416:GLU:CD	2.74	0.43
1:Q:246:THR:HA	1:Q:677:GLN:H	1.83	0.43
1:Q:365:PHE:HA	1:Q:366:PRO:HD3	1.91	0.43
1:Q:467:ALA:HA	1:Q:470:ILE:HD11	2.00	0.43
1:Q:569:ASN:HD21	1:Q:606:TRP:HB2	1.83	0.43
1:R:369:VAL:HG13	1:X:666:PHE:HD2	1.83	0.43
1:R:426:HIS:HD2	1:R:735:LEU:HA	1.82	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:T:245:ARG:CD	1:T:366:PRO:HA	2.47	0.43
1:T:288:HIS:CE1	1:T:364:PRO:HG3	2.53	0.43
1:T:350:LEU:CG	1:T:398:PHE:HE2	2.32	0.43
1:T:395:LEU:H	1:T:395:LEU:HG	1.48	0.43
1:U:246:THR:HA	1:U:677:GLN:H	1.83	0.43
1:V:467:ALA:HA	1:V:470:ILE:HD11	2.00	0.43
1:X:261:SER:HA	1:X:272:TYR:O	2.18	0.43
1:Y:273:PHE:CZ	1:Y:386:ALA:HB2	2.53	0.43
1:Y:467:ALA:HA	1:Y:470:ILE:HD11	2.00	0.43
1:Z:350:LEU:CG	1:Z:398:PHE:HE2	2.31	0.43
1:Z:467:ALA:HA	1:Z:470:ILE:HD11	2.00	0.43
1:Z:666:PHE:HD2	1:z:369:VAL:HG13	1.83	0.43
1:a:246:THR:HA	1:a:677:GLN:H	1.83	0.43
1:a:288:HIS:CE1	1:a:364:PRO:HG3	2.53	0.43
1:c:545:GLN:NE2	1:c:719:VAL:HG12	2.32	0.43
1:f:552:VAL:HG13	1:y:462:PHE:HB2	2.00	0.43
1:g:540:LEU:HD12	1:g:540:LEU:O	2.17	0.43
1:h:569:ASN:HD21	1:h:606:TRP:HB2	1.83	0.43
1:h:614:GLN:N	1:h:614:GLN:OE1	2.51	0.43
1:i:288:HIS:CE1	1:i:364:PRO:HG3	2.53	0.43
1:i:552:VAL:HG13	1:u:462:PHE:HB2	2.00	0.43
1:i:614:GLN:N	1:i:614:GLN:OE1	2.51	0.43
1:k:467:ALA:HA	1:k:470:ILE:HD11	2.00	0.43
1:k:484:ARG:NE	1:k:573:THR:O	2.51	0.43
1:l:439:ASP:OD1	1:l:439:ASP:N	2.51	0.43
1:l:467:ALA:HA	1:l:470:ILE:HD11	2.00	0.43
1:m:397:TYR:HD2	1:m:398:PHE:HD1	1.66	0.43
1:m:484:ARG:NE	1:m:573:THR:O	2.51	0.43
1:n:261:SER:HA	1:n:272:TYR:O	2.18	0.43
1:r:640:LYS:HE3	1:r:640:LYS:HB3	1.89	0.43
1:u:614:GLN:N	1:u:614:GLN:OE1	2.51	0.43
1:w:484:ARG:NE	1:w:573:THR:O	2.51	0.43
1:y:484:ARG:NE	1:y:573:THR:O	2.51	0.43
1:z:245:ARG:CD	1:z:366:PRO:HA	2.47	0.43
1:z:288:HIS:CE1	1:z:364:PRO:HG3	2.53	0.43
1:2:416:GLU:N	1:2:416:GLU:CD	2.74	0.43
1:2:426:HIS:HD2	1:2:735:LEU:HA	1.82	0.43
1:3:245:ARG:CD	1:3:366:PRO:HA	2.47	0.43
1:3:426:HIS:HD2	1:3:735:LEU:HA	1.82	0.43
1:6:261:SER:HA	1:6:272:TYR:O	2.18	0.43
1:6:350:LEU:CG	1:6:398:PHE:HE2	2.31	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:6:545:GLN:NE2	1:6:719:VAL:HG12	2.32	0.43
1:7:273:PHE:CZ	1:7:386:ALA:HB2	2.53	0.43
1:8:274:GLY:HA3	1:8:377:TYR:O	2.18	0.43
1:A:484:ARG:NE	1:A:573:THR:O	2.51	0.43
1:A:518:ASN:N	1:A:519:PRO:CD	2.82	0.43
1:B:518:ASN:N	1:B:519:PRO:CD	2.82	0.43
1:C:467:ALA:HA	1:C:470:ILE:HD11	2.00	0.43
1:C:496:ASN:ND2	1:r:589:GLN:HA	2.32	0.43
1:D:397:TYR:HD2	1:D:398:PHE:HD1	1.66	0.43
1:D:484:ARG:NE	1:D:573:THR:O	2.51	0.43
1:E:462:PHE:HB2	1:l:552:VAL:HG13	2.00	0.43
1:E:569:ASN:HD21	1:E:606:TRP:HB2	1.83	0.43
1:G:302:ASN:HD21	1:L:302:ASN:ND2	2.10	0.43
1:G:525:SER:N	1:G:562:GLU:HB2	2.33	0.43
1:H:462:PHE:HB2	1:S:552:VAL:HG13	2.00	0.43
1:J:350:LEU:CG	1:J:398:PHE:HE2	2.31	0.43
1:J:416:GLU:N	1:J:416:GLU:CD	2.74	0.43
1:J:426:HIS:HD2	1:J:735:LEU:HA	1.82	0.43
1:K:413:TYR:CE2	1:K:643:PRO:HA	2.52	0.43
1:K:545:GLN:NE2	1:K:719:VAL:HG12	2.32	0.43
1:L:246:THR:HA	1:L:677:GLN:H	1.83	0.43
1:L:413:TYR:CE2	1:L:643:PRO:HA	2.52	0.43
1:M:350:LEU:CG	1:M:398:PHE:HE2	2.31	0.43
1:M:545:GLN:NE2	1:M:719:VAL:HG12	2.32	0.43
1:M:614:GLN:N	1:M:614:GLN:OE1	2.51	0.43
1:N:288:HIS:CE1	1:N:364:PRO:HG3	2.53	0.43
1:N:429:SER:OG	1:N:431:ASP:OD1	2.23	0.43
1:O:467:ALA:HA	1:O:470:ILE:HD11	2.00	0.43
1:P:397:TYR:HD2	1:P:398:PHE:HD1	1.66	0.43
1:Q:397:TYR:HD2	1:Q:398:PHE:HD1	1.66	0.43
1:Q:614:GLN:N	1:Q:614:GLN:OE1	2.51	0.43
1:R:397:TYR:HE2	1:k:692:LYS:NZ	2.14	0.43
1:T:397:TYR:HD2	1:T:398:PHE:HD1	1.66	0.43
1:U:569:ASN:HD21	1:U:606:TRP:HB2	1.83	0.43
1:V:569:ASN:HD21	1:V:606:TRP:HB2	1.83	0.43
1:W:273:PHE:CZ	1:W:386:ALA:HB2	2.53	0.43
1:X:467:ALA:HA	1:X:470:ILE:HD11	2.00	0.43
1:Y:569:ASN:HD21	1:Y:606:TRP:HB2	1.83	0.43
1:Z:614:GLN:N	1:Z:614:GLN:OE1	2.51	0.43
1:a:467:ALA:HA	1:a:470:ILE:HD11	2.00	0.43
1:d:261:SER:HA	1:d:272:TYR:O	2.18	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:e:525:SER:N	1:e:562:GLU:HB2	2.33	0.43
1:f:303:ASN:ND2	1:f:686:LEU:HD22	2.33	0.43
1:g:369:VAL:HG13	1:j:666:PHE:HD2	1.83	0.43
1:i:261:SER:HA	1:i:272:TYR:O	2.18	0.43
1:j:350:LEU:CG	1:j:398:PHE:HE2	2.31	0.43
1:j:397:TYR:HD2	1:j:398:PHE:HD1	1.66	0.43
1:j:416:GLU:N	1:j:416:GLU:CD	2.74	0.43
1:m:245:ARG:CD	1:m:366:PRO:HA	2.47	0.43
1:m:274:GLY:HA3	1:m:377:TYR:O	2.18	0.43
1:m:288:HIS:CE1	1:m:364:PRO:HG3	2.53	0.43
1:m:569:ASN:HD21	1:m:606:TRP:CB	2.32	0.43
1:o:261:SER:HA	1:o:272:TYR:O	2.18	0.43
1:p:261:SER:HA	1:p:272:TYR:O	2.18	0.43
1:p:345:ASP:O	1:p:346:SER:CB	2.54	0.43
1:p:467:ALA:HA	1:p:470:ILE:HD11	2.00	0.43
1:q:246:THR:HA	1:q:677:GLN:H	1.83	0.43
1:r:617:ILE:HD13	1:r:617:ILE:HG21	1.85	0.43
1:t:467:ALA:HA	1:t:470:ILE:HD11	2.00	0.43
1:t:525:SER:N	1:t:562:GLU:HB2	2.33	0.43
1:u:257:TYR:O	1:w:718:GLY:HA2	2.17	0.43
1:u:273:PHE:CZ	1:u:386:ALA:HB2	2.53	0.43
1:v:518:ASN:N	1:v:519:PRO:CD	2.82	0.43
1:w:274:GLY:HA3	1:w:377:TYR:O	2.18	0.43
1:w:350:LEU:CG	1:w:398:PHE:HE2	2.31	0.43
1:x:246:THR:HA	1:x:677:GLN:H	1.83	0.43
1:x:288:HIS:CE1	1:x:364:PRO:HG3	2.53	0.43
1:x:545:GLN:NE2	1:x:719:VAL:HG12	2.32	0.43
1:x:614:GLN:N	1:x:614:GLN:OE1	2.51	0.43
1:z:350:LEU:CG	1:z:398:PHE:HE2	2.31	0.43
1:z:484:ARG:NE	1:z:573:THR:O	2.51	0.43
1:1:246:THR:HA	1:1:677:GLN:H	1.83	0.43
1:2:569:ASN:HD21	1:2:606:TRP:CB	2.32	0.43
1:3:288:HIS:CE1	1:3:364:PRO:HG3	2.53	0.43
1:4:413:TYR:CE2	1:4:643:PRO:HA	2.52	0.43
1:5:397:TYR:HD2	1:5:398:PHE:HD1	1.66	0.43
1:5:711:ASP:HB3	1:5:723:PRO:HG3	1.99	0.43
1:6:569:ASN:HD21	1:6:606:TRP:CB	2.32	0.43
1:7:467:ALA:HA	1:7:470:ILE:HD11	2.00	0.43
1:8:614:GLN:N	1:8:614:GLN:OE1	2.51	0.43
1:B:246:THR:HA	1:B:677:GLN:H	1.83	0.43
1:B:303:ASN:ND2	1:B:686:LEU:HD22	2.33	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:365:PHE:HA	1:C:366:PRO:HD3	1.91	0.43
1:D:246:THR:HA	1:D:677:GLN:H	1.83	0.43
1:D:416:GLU:N	1:D:416:GLU:CD	2.74	0.43
1:E:261:SER:HA	1:E:272:TYR:O	2.18	0.43
1:E:350:LEU:CG	1:E:398:PHE:HE2	2.32	0.43
1:E:413:TYR:CE2	1:E:643:PRO:HA	2.52	0.43
1:E:525:SER:N	1:E:562:GLU:HB2	2.33	0.43
1:F:439:ASP:OD1	1:F:439:ASP:N	2.51	0.43
1:G:467:ALA:HA	1:G:470:ILE:HD11	2.00	0.43
1:I:303:ASN:ND2	1:I:686:LEU:HD22	2.33	0.43
1:I:569:ASN:HD21	1:I:606:TRP:HB2	1.83	0.43
1:J:569:ASN:HD21	1:J:606:TRP:CB	2.32	0.43
1:J:569:ASN:HD21	1:J:606:TRP:HB2	1.83	0.43
1:J:614:GLN:N	1:J:614:GLN:OE1	2.51	0.43
1:K:261:SER:HA	1:K:272:TYR:O	2.18	0.43
1:K:439:ASP:OD1	1:K:439:ASP:N	2.51	0.43
1:K:518:ASN:N	1:K:519:PRO:CD	2.82	0.43
1:L:288:HIS:CE1	1:L:364:PRO:HG3	2.53	0.43
1:L:369:VAL:HG13	1:8:666:PHE:HD2	1.83	0.43
1:M:261:SER:HA	1:M:272:TYR:O	2.18	0.43
1:M:303:ASN:ND2	1:M:686:LEU:HD22	2.33	0.43
1:N:246:THR:HA	1:N:677:GLN:H	1.83	0.43
1:N:261:SER:HA	1:N:272:TYR:O	2.18	0.43
1:N:303:ASN:ND2	1:N:686:LEU:HD22	2.33	0.43
1:N:569:ASN:HD21	1:N:606:TRP:HB2	1.83	0.43
1:O:261:SER:HA	1:O:272:TYR:O	2.18	0.43
1:P:369:VAL:HG13	1:n:666:PHE:HD2	1.84	0.43
1:P:569:ASN:HD21	1:P:606:TRP:CB	2.32	0.43
1:Q:545:GLN:NE2	1:Q:719:VAL:HG12	2.32	0.43
1:R:246:THR:HA	1:R:677:GLN:H	1.83	0.43
1:R:614:GLN:N	1:R:614:GLN:OE1	2.51	0.43
1:S:274:GLY:HA3	1:S:377:TYR:O	2.18	0.43
1:S:395:LEU:H	1:S:395:LEU:HG	1.48	0.43
1:T:274:GLY:HA3	1:T:377:TYR:O	2.18	0.43
1:T:569:ASN:HD21	1:T:606:TRP:CB	2.32	0.43
1:U:484:ARG:NE	1:U:573:THR:O	2.51	0.43
1:V:350:LEU:CG	1:V:398:PHE:HE2	2.31	0.43
1:W:569:ASN:HD21	1:W:606:TRP:CB	2.32	0.43
1:X:274:GLY:HA3	1:X:377:TYR:O	2.18	0.43
1:X:711:ASP:HB3	1:X:723:PRO:HG3	1.99	0.43
1:a:518:ASN:N	1:a:519:PRO:CD	2.82	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:b:303:ASN:ND2	1:b:686:LEU:HD22	2.33	0.43
1:c:439:ASP:OD1	1:c:439:ASP:N	2.51	0.43
1:c:525:SER:N	1:c:562:GLU:HB2	2.33	0.43
1:d:303:ASN:ND2	1:d:686:LEU:HD22	2.33	0.43
1:d:569:ASN:HD21	1:d:606:TRP:HB2	1.83	0.43
1:e:288:HIS:CE1	1:e:364:PRO:HG3	2.53	0.43
1:e:350:LEU:CG	1:e:398:PHE:HE2	2.31	0.43
1:e:439:ASP:OD1	1:e:439:ASP:N	2.51	0.43
1:f:484:ARG:NE	1:f:573:THR:O	2.51	0.43
1:g:245:ARG:CD	1:g:366:PRO:HA	2.47	0.43
1:g:246:THR:HA	1:g:677:GLN:H	1.83	0.43
1:g:350:LEU:CG	1:g:398:PHE:HE2	2.31	0.43
1:g:467:ALA:HA	1:g:470:ILE:HD11	2.00	0.43
1:i:246:THR:HA	1:i:677:GLN:H	1.83	0.43
1:j:569:ASN:HD21	1:j:606:TRP:CB	2.32	0.43
1:k:246:THR:HA	1:k:677:GLN:H	1.83	0.43
1:k:496:ASN:ND2	1:m:589:GLN:HA	2.33	0.43
1:l:246:THR:HA	1:l:677:GLN:H	1.83	0.43
1:l:397:TYR:HD2	1:l:398:PHE:HD1	1.66	0.43
1:l:413:TYR:CE2	1:l:643:PRO:HA	2.53	0.43
1:o:255:HIS:CG	1:o:652:PRO:HB3	2.54	0.43
1:o:274:GLY:HA3	1:o:377:TYR:O	2.18	0.43
1:o:467:ALA:HA	1:o:470:ILE:HD11	2.00	0.43
1:q:614:GLN:N	1:q:614:GLN:OE1	2.51	0.43
1:r:274:GLY:HA3	1:r:377:TYR:O	2.18	0.43
1:r:518:ASN:N	1:r:519:PRO:CD	2.82	0.43
1:r:545:GLN:NE2	1:r:719:VAL:HG12	2.32	0.43
1:s:439:ASP:N	1:s:439:ASP:OD1	2.51	0.43
1:s:569:ASN:HD21	1:s:606:TRP:HB2	1.83	0.43
1:t:302:ASN:HD21	1:z:302:ASN:ND2	2.10	0.43
1:u:255:HIS:CG	1:u:652:PRO:HB3	2.54	0.43
1:u:350:LEU:CG	1:u:398:PHE:HE2	2.31	0.43
1:u:484:ARG:NE	1:u:573:THR:O	2.51	0.43
1:v:350:LEU:CG	1:v:398:PHE:HE2	2.31	0.43
1:v:397:TYR:HD2	1:v:398:PHE:HD1	1.66	0.43
1:v:484:ARG:NE	1:v:573:THR:O	2.51	0.43
1:v:614:GLN:N	1:v:614:GLN:OE1	2.51	0.43
1:y:255:HIS:CG	1:y:652:PRO:HB3	2.54	0.43
1:y:431:ASP:O	1:y:475:ARG:NH2	2.48	0.43
1:y:439:ASP:OD1	1:y:439:ASP:N	2.51	0.43
1:1:518:ASN:N	1:1:519:PRO:CD	2.82	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1:569:ASN:HD21	1:1:606:TRP:CB	2.32	0.43
1:2:350:LEU:CG	1:2:398:PHE:HE2	2.31	0.43
1:2:397:TYR:HD2	1:2:398:PHE:HD1	1.66	0.43
1:2:569:ASN:HD21	1:2:606:TRP:HB2	1.83	0.43
1:4:261:SER:HA	1:4:272:TYR:O	2.18	0.43
1:4:397:TYR:HD2	1:4:398:PHE:HD1	1.66	0.43
1:7:255:HIS:CG	1:7:652:PRO:HB3	2.54	0.43
1:7:569:ASN:HD21	1:7:606:TRP:HB2	1.83	0.43
1:8:350:LEU:CG	1:8:398:PHE:HE2	2.32	0.43
1:8:569:ASN:HD21	1:8:606:TRP:HB2	1.83	0.43
1:A:350:LEU:CG	1:A:398:PHE:HE2	2.31	0.43
1:A:462:PHE:HB2	1:e:552:VAL:HG13	2.01	0.43
1:A:614:GLN:N	1:A:614:GLN:OE1	2.51	0.43
1:A:695:ASN:HD21	1:Y:710:VAL:HG11	1.84	0.43
1:B:302:ASN:HD21	1:8:302:ASN:ND2	2.09	0.43
1:B:569:ASN:HD21	1:B:606:TRP:CB	2.32	0.43
1:C:245:ARG:CD	1:C:366:PRO:HA	2.47	0.43
1:C:246:THR:HA	1:C:677:GLN:H	1.83	0.43
1:C:350:LEU:CG	1:C:398:PHE:HE2	2.31	0.43
1:E:349:GLN:NE2	1:E:349:GLN:CA	2.73	0.43
1:F:255:HIS:CG	1:F:652:PRO:HB3	2.54	0.43
1:F:614:GLN:N	1:F:614:GLN:OE1	2.51	0.43
1:I:369:VAL:HG13	1:Y:666:PHE:HD2	1.83	0.43
1:K:397:TYR:HD2	1:K:398:PHE:HD1	1.66	0.43
1:O:246:THR:HA	1:O:677:GLN:H	1.83	0.43
1:O:397:TYR:HD2	1:O:398:PHE:HD1	1.66	0.43
1:O:413:TYR:CE2	1:O:643:PRO:HA	2.52	0.43
1:O:518:ASN:N	1:O:519:PRO:CD	2.82	0.43
1:O:552:VAL:HG13	1:w:462:PHE:HB2	2.00	0.43
1:P:518:ASN:N	1:P:519:PRO:CD	2.82	0.43
1:Q:274:GLY:HA3	1:Q:377:TYR:O	2.18	0.43
1:R:273:PHE:CZ	1:R:386:ALA:HB2	2.53	0.43
1:R:569:ASN:HD21	1:R:606:TRP:HB2	1.83	0.43
1:S:467:ALA:HA	1:S:470:ILE:HD11	2.00	0.43
1:S:518:ASN:N	1:S:519:PRO:CD	2.82	0.43
1:U:518:ASN:N	1:U:519:PRO:CD	2.82	0.43
1:V:246:THR:HA	1:V:677:GLN:H	1.83	0.43
1:W:618:TRP:CZ3	1:W:643:PRO:HG2	2.54	0.43
1:Y:255:HIS:CG	1:Y:652:PRO:HB3	2.54	0.43
1:Z:496:ASN:ND2	1:t:589:GLN:HA	2.33	0.43
1:Z:569:ASN:HD21	1:Z:606:TRP:CB	2.32	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:a:273:PHE:CZ	1:a:386:ALA:HB2	2.53	0.43
1:a:350:LEU:CD1	1:a:395:LEU:HD22	2.49	0.43
1:b:462:PHE:HB2	1:n:552:VAL:HG13	2.00	0.43
1:b:467:ALA:HA	1:b:470:ILE:HD11	2.00	0.43
1:c:288:HIS:CE1	1:c:364:PRO:HG3	2.53	0.43
1:f:369:VAL:HG13	1:2:666:PHE:HD2	1.83	0.43
1:h:261:SER:HA	1:h:272:TYR:O	2.18	0.43
1:h:303:ASN:ND2	1:h:686:LEU:HD22	2.33	0.43
1:h:350:LEU:HD21	1:h:398:PHE:HE2	1.80	0.43
1:h:350:LEU:CG	1:h:398:PHE:HE2	2.32	0.43
1:i:569:ASN:HD21	1:i:606:TRP:HB2	1.83	0.43
1:j:518:ASN:N	1:j:519:PRO:CD	2.82	0.43
1:k:569:ASN:HD21	1:k:606:TRP:HB2	1.83	0.43
1:l:518:ASN:N	1:l:519:PRO:CD	2.82	0.43
1:n:569:ASN:HD21	1:n:606:TRP:HB2	1.83	0.43
1:o:711:ASP:HB3	1:o:723:PRO:HG3	1.99	0.43
1:p:246:THR:HA	1:p:677:GLN:H	1.83	0.43
1:p:350:LEU:CG	1:p:398:PHE:HE2	2.32	0.43
1:p:431:ASP:O	1:p:475:ARG:NH2	2.48	0.43
1:p:484:ARG:NE	1:p:573:THR:O	2.51	0.43
1:p:569:ASN:HD21	1:p:606:TRP:HB2	1.83	0.43
1:q:273:PHE:CZ	1:q:386:ALA:HB2	2.53	0.43
1:q:569:ASN:HD21	1:q:606:TRP:HB2	1.83	0.43
1:r:496:ASN:ND2	1:5:589:GLN:HA	2.33	0.43
1:v:246:THR:HA	1:v:677:GLN:H	1.83	0.43
1:v:439:ASP:OD1	1:v:439:ASP:N	2.51	0.43
1:w:261:SER:HA	1:w:272:TYR:O	2.18	0.43
1:w:525:SER:N	1:w:562:GLU:HB2	2.33	0.43
1:w:569:ASN:HD21	1:w:606:TRP:HB2	1.83	0.43
1:x:274:GLY:HA3	1:x:377:TYR:O	2.18	0.43
1:z:413:TYR:CE2	1:z:643:PRO:HA	2.52	0.43
1:1:303:ASN:ND2	1:1:686:LEU:HD22	2.33	0.43
1:2:395:LEU:H	1:2:395:LEU:HG	1.48	0.43
1:2:525:SER:N	1:2:562:GLU:HB2	2.33	0.43
1:2:614:GLN:N	1:2:614:GLN:OE1	2.51	0.43
1:3:350:LEU:CD1	1:3:395:LEU:HD22	2.49	0.43
1:3:467:ALA:HA	1:3:470:ILE:HD11	2.00	0.43
1:3:518:ASN:N	1:3:519:PRO:CD	2.82	0.43
1:4:439:ASP:OD1	1:4:439:ASP:N	2.51	0.43
1:4:518:ASN:N	1:4:519:PRO:CD	2.82	0.43
1:4:545:GLN:NE2	1:4:719:VAL:HG12	2.32	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:5:303:ASN:ND2	1:5:686:LEU:HD22	2.33	0.43
1:5:569:ASN:HD21	1:5:606:TRP:CB	2.32	0.43
1:5:614:GLN:OE1	1:5:614:GLN:N	2.51	0.43
1:6:273:PHE:CZ	1:6:386:ALA:HB2	2.53	0.43
1:6:618:TRP:CZ3	1:6:643:PRO:HG2	2.54	0.43
1:7:350:LEU:CG	1:7:398:PHE:HE2	2.32	0.43
1:8:569:ASN:HD21	1:8:606:TRP:CB	2.32	0.43
1:A:238:ARG:NH2	1:A:685:GLU:OE2	2.52	0.43
1:A:439:ASP:N	1:A:439:ASP:OD1	2.51	0.43
1:B:525:SER:N	1:B:562:GLU:HB2	2.33	0.43
1:C:238:ARG:NH2	1:C:685:GLU:OE2	2.52	0.43
1:D:569:ASN:HD21	1:D:606:TRP:HB2	1.83	0.43
1:F:431:ASP:O	1:F:475:ARG:NH2	2.48	0.43
1:G:261:SER:HA	1:G:272:TYR:O	2.18	0.43
1:H:261:SER:HA	1:H:272:TYR:O	2.18	0.43
1:H:303:ASN:ND2	1:H:686:LEU:HD22	2.33	0.43
1:H:569:ASN:HD21	1:H:606:TRP:CB	2.32	0.43
1:H:569:ASN:HD21	1:H:606:TRP:HB2	1.83	0.43
1:H:614:GLN:OE1	1:H:614:GLN:N	2.51	0.43
1:I:255:HIS:CG	1:I:652:PRO:HB3	2.54	0.43
1:I:273:PHE:CZ	1:I:386:ALA:HB2	2.53	0.43
1:I:350:LEU:CG	1:I:398:PHE:HE2	2.32	0.43
1:I:484:ARG:NE	1:I:573:THR:O	2.51	0.43
1:J:589:GLN:HA	1:p:496:ASN:ND2	2.32	0.43
1:K:496:ASN:ND2	1:1:589:GLN:HA	2.33	0.43
1:K:525:SER:N	1:K:562:GLU:HB2	2.33	0.43
1:K:710:VAL:HG11	1:4:695:ASN:HD21	1.84	0.43
1:L:397:TYR:HD2	1:L:398:PHE:HD1	1.66	0.43
1:M:416:GLU:N	1:M:416:GLU:CD	2.74	0.43
1:M:618:TRP:CZ3	1:M:643:PRO:HG2	2.54	0.43
1:N:666:PHE:HD2	1:Q:369:VAL:HG13	1.83	0.43
1:O:350:LEU:HD22	1:O:395:LEU:HD21	1.90	0.43
1:P:467:ALA:HA	1:P:470:ILE:HD11	2.00	0.43
1:R:350:LEU:CD1	1:R:395:LEU:HD22	2.49	0.43
1:R:518:ASN:N	1:R:519:PRO:CD	2.82	0.43
1:S:288:HIS:CE1	1:S:364:PRO:HG3	2.53	0.43
1:S:545:GLN:NE2	1:S:719:VAL:HG12	2.32	0.43
1:U:238:ARG:NH2	1:U:685:GLU:OE2	2.52	0.43
1:U:350:LEU:CG	1:U:398:PHE:HE2	2.31	0.43
1:U:439:ASP:N	1:U:439:ASP:OD1	2.51	0.43
1:V:484:ARG:NE	1:V:573:THR:O	2.51	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:V:618:TRP:CZ3	1:V:643:PRO:HG2	2.54	0.43
1:W:525:SER:N	1:W:562:GLU:HB2	2.33	0.43
1:X:255:HIS:CG	1:X:652:PRO:HB3	2.54	0.43
1:Y:238:ARG:NH2	1:Y:685:GLU:OE2	2.52	0.43
1:Y:350:LEU:CG	1:Y:398:PHE:HE2	2.32	0.43
1:Y:439:ASP:N	1:Y:439:ASP:OD1	2.51	0.43
1:Y:614:GLN:N	1:Y:614:GLN:OE1	2.51	0.43
1:Z:569:ASN:HD21	1:Z:606:TRP:HB2	1.83	0.43
1:a:303:ASN:ND2	1:a:686:LEU:HD22	2.33	0.43
1:a:397:TYR:HD2	1:a:398:PHE:HD1	1.66	0.43
1:a:666:PHE:HD2	1:5:369:VAL:HG13	1.84	0.43
1:a:695:ASN:HD21	1:6:710:VAL:HG11	1.84	0.43
1:b:255:HIS:CG	1:b:652:PRO:HB3	2.54	0.43
1:b:484:ARG:NE	1:b:573:THR:O	2.51	0.43
1:b:525:SER:N	1:b:562:GLU:HB2	2.33	0.43
1:c:255:HIS:CG	1:c:652:PRO:HB3	2.54	0.43
1:c:350:LEU:CG	1:c:398:PHE:HE2	2.32	0.43
1:d:666:PHE:HD2	1:j:369:VAL:HG13	1.84	0.43
1:e:255:HIS:CG	1:e:652:PRO:HB3	2.54	0.43
1:f:255:HIS:CG	1:f:652:PRO:HB3	2.54	0.43
1:f:525:SER:N	1:f:562:GLU:HB2	2.33	0.43
1:g:238:ARG:NH2	1:g:685:GLU:OE2	2.52	0.43
1:h:618:TRP:CZ3	1:h:643:PRO:HG2	2.54	0.43
1:j:255:HIS:CG	1:j:652:PRO:HB3	2.54	0.43
1:k:569:ASN:HD21	1:k:606:TRP:CB	2.32	0.43
1:o:257:TYR:O	1:q:718:GLY:HA2	2.18	0.43
1:q:245:ARG:CD	1:q:366:PRO:HA	2.47	0.43
1:q:350:LEU:CD1	1:q:395:LEU:HD22	2.49	0.43
1:q:518:ASN:N	1:q:519:PRO:CD	2.82	0.43
1:r:288:HIS:CE1	1:r:364:PRO:HG3	2.53	0.43
1:r:467:ALA:HA	1:r:470:ILE:HD11	2.00	0.43
1:s:484:ARG:NE	1:s:573:THR:O	2.51	0.43
1:s:518:ASN:N	1:s:519:PRO:CD	2.82	0.43
1:t:257:TYR:O	1:2:718:GLY:HA2	2.18	0.43
1:u:369:VAL:HG13	1:7:666:PHE:HD2	1.83	0.43
1:w:349:GLN:NE2	1:w:349:GLN:CA	2.73	0.43
1:x:365:PHE:HA	1:x:366:PRO:HD3	1.91	0.43
1:x:618:TRP:CZ3	1:x:643:PRO:HG2	2.54	0.43
1:y:614:GLN:N	1:y:614:GLN:OE1	2.51	0.43
1:z:274:GLY:HA3	1:z:377:TYR:O	2.18	0.43
1:2:484:ARG:NE	1:2:573:THR:O	2.51	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:3:273:PHE:CZ	1:3:386:ALA:HB2	2.53	0.43
1:4:348:TYR:H	1:4:348:TYR:HD2	1.65	0.43
1:4:525:SER:N	1:4:562:GLU:HB2	2.33	0.43
1:6:525:SER:N	1:6:562:GLU:HB2	2.33	0.43
1:7:238:ARG:NH2	1:7:685:GLU:OE2	2.52	0.43
1:7:439:ASP:OD1	1:7:439:ASP:N	2.51	0.43
1:7:614:GLN:N	1:7:614:GLN:OE1	2.51	0.43
1:A:274:GLY:HA3	1:A:377:TYR:O	2.18	0.43
1:A:416:GLU:N	1:A:416:GLU:CD	2.74	0.43
1:A:467:ALA:HA	1:A:470:ILE:HD11	2.00	0.43
1:B:350:LEU:CD1	1:B:395:LEU:HD22	2.49	0.43
1:B:489:SER:OG	1:B:494:ASP:HB2	2.19	0.43
1:B:589:GLN:HA	1:4:496:ASN:ND2	2.33	0.43
1:D:274:GLY:HA3	1:D:377:TYR:O	2.18	0.43
1:D:496:ASN:ND2	1:T:589:GLN:HA	2.33	0.43
1:D:569:ASN:HD21	1:D:606:TRP:CB	2.32	0.43
1:E:496:ASN:ND2	1:X:589:GLN:HA	2.33	0.43
1:F:552:VAL:HG13	1:n:462:PHE:HB2	2.00	0.43
1:G:462:PHE:HB2	1:8:552:VAL:HG13	2.00	0.43
1:G:545:GLN:NE2	1:G:719:VAL:HG12	2.32	0.43
1:G:589:GLN:HA	1:8:496:ASN:ND2	2.33	0.43
1:H:369:VAL:HG13	1:3:666:PHE:HD2	1.84	0.43
1:H:666:PHE:HD2	1:V:369:VAL:HG13	1.83	0.43
1:I:245:ARG:CD	1:I:366:PRO:HA	2.47	0.43
1:I:569:ASN:HD21	1:I:606:TRP:CB	2.32	0.43
1:J:484:ARG:NE	1:J:573:THR:O	2.51	0.43
1:J:539:VAL:O	1:J:541:ILE:HG13	2.19	0.43
1:K:246:THR:HA	1:K:677:GLN:H	1.83	0.43
1:K:348:TYR:H	1:K:348:TYR:HD2	1.65	0.43
1:L:525:SER:N	1:L:562:GLU:HB2	2.33	0.43
1:L:618:TRP:CZ3	1:L:643:PRO:HG2	2.54	0.43
1:M:274:GLY:HA3	1:M:377:TYR:O	2.18	0.43
1:M:350:LEU:HD21	1:M:398:PHE:HE2	1.80	0.43
1:M:552:VAL:HG13	1:8:462:PHE:HB2	2.00	0.43
1:N:539:VAL:O	1:N:541:ILE:HG13	2.19	0.43
1:O:569:ASN:HD21	1:O:606:TRP:CB	2.32	0.43
1:O:618:TRP:CZ3	1:O:643:PRO:HG2	2.54	0.43
1:P:255:HIS:CG	1:P:652:PRO:HB3	2.54	0.43
1:P:496:ASN:ND2	1:p:589:GLN:HA	2.33	0.43
1:P:569:ASN:HD21	1:P:606:TRP:HB2	1.83	0.43
1:P:618:TRP:CZ3	1:P:643:PRO:HG2	2.54	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Q:525:SER:N	1:Q:562:GLU:HB2	2.33	0.43
1:Q:618:TRP:CZ3	1:Q:643:PRO:HG2	2.54	0.43
1:R:245:ARG:CD	1:R:366:PRO:HA	2.47	0.43
1:R:462:PHE:HB2	1:m:552:VAL:HG13	2.00	0.43
1:R:489:SER:OG	1:R:494:ASP:HB2	2.19	0.43
1:V:431:ASP:O	1:V:475:ARG:NH2	2.48	0.43
1:V:539:VAL:O	1:V:541:ILE:HG13	2.19	0.43
1:W:416:GLU:N	1:W:416:GLU:CD	2.74	0.43
1:W:710:VAL:HG11	1:3:695:ASN:HD21	1.84	0.43
1:Z:462:PHE:HB2	1:h:552:VAL:HG13	2.00	0.43
1:Z:484:ARG:NE	1:Z:573:THR:O	2.51	0.43
1:c:666:PHE:HD2	1:7:369:VAL:HG13	1.84	0.43
1:d:552:VAL:HG13	1:f:462:PHE:HB2	2.00	0.43
1:f:467:ALA:HA	1:f:470:ILE:HD11	2.00	0.43
1:f:569:ASN:HD21	1:f:606:TRP:CB	2.32	0.43
1:h:274:GLY:HA3	1:h:377:TYR:O	2.18	0.43
1:h:484:ARG:NE	1:h:573:THR:O	2.51	0.43
1:i:303:ASN:ND2	1:i:686:LEU:HD22	2.33	0.43
1:i:484:ARG:NE	1:i:573:THR:O	2.51	0.43
1:j:489:SER:OG	1:j:494:ASP:HB2	2.19	0.43
1:k:416:GLU:N	1:k:416:GLU:CD	2.74	0.43
1:l:261:SER:HA	1:l:272:TYR:O	2.18	0.43
1:n:303:ASN:ND2	1:n:686:LEU:HD22	2.33	0.43
1:p:395:LEU:H	1:p:395:LEU:HG	1.48	0.43
1:p:618:TRP:CZ3	1:p:643:PRO:HG2	2.54	0.43
1:s:238:ARG:NH2	1:s:685:GLU:OE2	2.52	0.43
1:s:350:LEU:CG	1:s:398:PHE:HE2	2.32	0.43
1:t:261:SER:HA	1:t:272:TYR:O	2.18	0.43
1:t:350:LEU:CD1	1:t:395:LEU:HD22	2.49	0.43
1:t:539:VAL:O	1:t:541:ILE:HG13	2.19	0.43
1:u:245:ARG:CD	1:u:366:PRO:HA	2.47	0.43
1:u:569:ASN:HD21	1:u:606:TRP:CB	2.32	0.43
1:u:569:ASN:HD21	1:u:606:TRP:HB2	1.83	0.43
1:v:238:ARG:NH2	1:v:685:GLU:OE2	2.52	0.43
1:v:467:ALA:HA	1:v:470:ILE:HD11	2.00	0.43
1:w:413:TYR:CE2	1:w:643:PRO:HA	2.53	0.43
1:y:365:PHE:HA	1:y:366:PRO:HD3	1.91	0.43
1:z:397:TYR:HD2	1:z:398:PHE:HD1	1.66	0.43
1:z:618:TRP:CZ3	1:z:643:PRO:HG2	2.54	0.43
1:1:489:SER:OG	1:1:494:ASP:HB2	2.19	0.43
1:1:525:SER:N	1:1:562:GLU:HB2	2.33	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:2:429:SER:OG	1:2:431:ASP:OD1	2.23	0.43
1:3:303:ASN:ND2	1:3:686:LEU:HD22	2.33	0.43
1:6:303:ASN:ND2	1:6:686:LEU:HD22	2.33	0.43
1:6:416:GLU:N	1:6:416:GLU:CD	2.74	0.43
1:7:348:TYR:H	1:7:348:TYR:HD2	1.65	0.43
1:7:618:TRP:CZ3	1:7:643:PRO:HG2	2.54	0.43
1:8:484:ARG:NE	1:8:573:THR:O	2.51	0.43
1:A:246:THR:HA	1:A:677:GLN:H	1.83	0.43
1:B:374:GLN:HG3	1:B:375:TYR:N	2.34	0.43
1:C:569:ASN:HD21	1:C:606:TRP:CB	2.32	0.43
1:F:238:ARG:NH2	1:F:685:GLU:OE2	2.52	0.43
1:G:350:LEU:CD1	1:G:395:LEU:HD22	2.49	0.43
1:G:539:VAL:O	1:G:541:ILE:HG13	2.19	0.43
1:J:238:ARG:NH2	1:J:685:GLU:OE2	2.52	0.43
1:J:398:PHE:HE1	1:P:692:LYS:HB3	1.84	0.43
1:J:525:SER:N	1:J:562:GLU:HB2	2.33	0.43
1:K:569:ASN:HD21	1:K:606:TRP:CB	2.32	0.43
1:K:589:GLN:HA	1:W:496:ASN:ND2	2.33	0.43
1:K:695:ASN:HD21	1:4:710:VAL:HG11	1.84	0.43
1:L:274:GLY:HA3	1:L:377:TYR:O	2.18	0.43
1:L:569:ASN:HD21	1:L:606:TRP:CB	2.32	0.43
1:N:274:GLY:HA3	1:N:377:TYR:O	2.18	0.43
1:N:484:ARG:NE	1:N:573:THR:O	2.51	0.43
1:O:255:HIS:CG	1:O:652:PRO:HB3	2.54	0.43
1:O:288:HIS:HD2	1:O:614:GLN:HA	1.84	0.43
1:P:350:LEU:CD1	1:P:395:LEU:HD22	2.49	0.43
1:P:489:SER:OG	1:P:494:ASP:HB2	2.19	0.43
1:Q:489:SER:OG	1:Q:494:ASP:HB2	2.19	0.43
1:R:350:LEU:CG	1:R:398:PHE:HE2	2.31	0.43
1:T:695:ASN:HD21	1:m:710:VAL:HG11	1.84	0.43
1:V:288:HIS:HD2	1:V:614:GLN:HA	1.84	0.43
1:W:489:SER:OG	1:W:494:ASP:HB2	2.19	0.43
1:X:429:SER:OG	1:X:431:ASP:OD1	2.23	0.43
1:Y:348:TYR:H	1:Y:348:TYR:HD2	1.65	0.43
1:Y:618:TRP:CZ3	1:Y:643:PRO:HG2	2.54	0.43
1:Z:525:SER:N	1:Z:562:GLU:HB2	2.33	0.43
1:b:350:LEU:CD1	1:b:395:LEU:HD22	2.49	0.43
1:b:569:ASN:HD21	1:b:606:TRP:CB	2.32	0.43
1:b:589:GLN:HA	1:n:496:ASN:ND2	2.33	0.43
1:d:496:ASN:ND2	1:f:589:GLN:HA	2.33	0.43
1:d:710:VAL:HG11	1:k:695:ASN:HD21	1.84	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:e:238:ARG:NH2	1:e:685:GLU:OE2	2.52	0.43
1:g:274:GLY:HA3	1:g:377:TYR:O	2.18	0.43
1:g:365:PHE:HA	1:g:366:PRO:HD3	1.91	0.43
1:g:569:ASN:HD21	1:g:606:TRP:CB	2.32	0.43
1:g:640:LYS:HE3	1:g:640:LYS:HB3	1.89	0.43
1:i:255:HIS:CG	1:i:652:PRO:HB3	2.54	0.43
1:i:274:GLY:HA3	1:i:377:TYR:O	2.18	0.43
1:i:350:LEU:CG	1:i:398:PHE:HE2	2.32	0.43
1:i:539:VAL:O	1:i:541:ILE:HG13	2.19	0.43
1:i:666:PHE:HD2	1:x:369:VAL:HG13	1.83	0.43
1:j:350:LEU:CD1	1:j:395:LEU:HD22	2.49	0.43
1:j:467:ALA:HA	1:j:470:ILE:HD11	2.00	0.43
1:j:618:TRP:CZ3	1:j:643:PRO:HG2	2.54	0.43
1:l:255:HIS:CG	1:l:652:PRO:HB3	2.54	0.43
1:l:618:TRP:CZ3	1:l:643:PRO:HG2	2.54	0.43
1:m:489:SER:OG	1:m:494:ASP:HB2	2.19	0.43
1:n:350:LEU:HD21	1:n:398:PHE:HE2	1.80	0.43
1:p:288:HIS:HD2	1:p:614:GLN:HA	1.84	0.43
1:p:539:VAL:O	1:p:541:ILE:HG13	2.19	0.43
1:q:489:SER:OG	1:q:494:ASP:HB2	2.19	0.43
1:s:243:SER:HB2	1:s:245:ARG:NH1	2.22	0.43
1:t:369:VAL:HG13	1:x:666:PHE:HD2	1.83	0.43
1:t:545:GLN:NE2	1:t:719:VAL:HG12	2.32	0.43
1:u:302:ASN:HD21	1:x:302:ASN:ND2	2.10	0.43
1:u:374:GLN:HG3	1:u:375:TYR:N	2.34	0.43
1:v:274:GLY:HA3	1:v:377:TYR:O	2.18	0.43
1:v:569:ASN:HD21	1:v:606:TRP:HB2	1.83	0.43
1:w:395:LEU:H	1:w:395:LEU:HG	1.48	0.43
1:x:489:SER:OG	1:x:494:ASP:HB2	2.19	0.43
1:x:525:SER:N	1:x:562:GLU:HB2	2.33	0.43
1:x:569:ASN:HD21	1:x:606:TRP:CB	2.32	0.43
1:z:539:VAL:O	1:z:541:ILE:HG13	2.19	0.43
1:1:350:LEU:CD1	1:1:395:LEU:HD22	2.49	0.43
1:1:374:GLN:HG3	1:1:375:TYR:N	2.34	0.43
1:2:238:ARG:NH2	1:2:685:GLU:OE2	2.52	0.43
1:2:539:VAL:O	1:2:541:ILE:HG13	2.19	0.43
1:3:397:TYR:HD2	1:3:398:PHE:HD1	1.66	0.43
1:4:246:THR:HA	1:4:677:GLN:H	1.83	0.43
1:4:274:GLY:HA3	1:4:377:TYR:O	2.18	0.43
1:4:569:ASN:HD21	1:4:606:TRP:CB	2.32	0.43
1:4:589:GLN:HA	1:6:496:ASN:ND2	2.33	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:5:261:SER:HA	1:5:272:TYR:O	2.18	0.43
1:5:525:SER:N	1:5:562:GLU:HB2	2.33	0.43
1:5:569:ASN:HD21	1:5:606:TRP:HB2	1.83	0.43
1:6:255:HIS:CG	1:6:652:PRO:HB3	2.54	0.43
1:6:467:ALA:HA	1:6:470:ILE:HD11	2.00	0.43
1:6:489:SER:OG	1:6:494:ASP:HB2	2.19	0.43
1:6:614:GLN:N	1:6:614:GLN:OE1	2.51	0.43
1:7:350:LEU:CD1	1:7:395:LEU:HD22	2.49	0.43
1:8:350:LEU:CD1	1:8:395:LEU:HD22	2.49	0.43
1:A:569:ASN:HD21	1:A:606:TRP:HB2	1.83	0.43
1:A:618:TRP:CZ3	1:A:643:PRO:HG2	2.54	0.43
1:B:397:TYR:HD2	1:B:398:PHE:HD1	1.66	0.43
1:B:552:VAL:HG13	1:6:462:PHE:HB2	2.00	0.43
1:C:274:GLY:HA3	1:C:377:TYR:O	2.18	0.43
1:C:374:GLN:HG3	1:C:375:TYR:N	2.34	0.43
1:E:238:ARG:NH2	1:E:685:GLU:OE2	2.52	0.43
1:E:569:ASN:HD21	1:E:606:TRP:CB	2.32	0.43
1:F:274:GLY:HA3	1:F:377:TYR:O	2.18	0.43
1:F:350:LEU:CD1	1:F:395:LEU:HD22	2.49	0.43
1:F:369:VAL:HG13	1:U:666:PHE:HD2	1.83	0.43
1:F:489:SER:OG	1:F:494:ASP:HB2	2.19	0.43
1:G:288:HIS:HD2	1:G:614:GLN:HA	1.84	0.43
1:G:350:LEU:CG	1:G:398:PHE:HE2	2.32	0.43
1:G:369:VAL:HG13	1:Q:666:PHE:HD2	1.83	0.43
1:H:255:HIS:CG	1:H:652:PRO:HB3	2.54	0.43
1:H:525:SER:N	1:H:562:GLU:HB2	2.33	0.43
1:H:692:LYS:HB3	1:S:398:PHE:HE1	1.84	0.43
1:K:274:GLY:HA3	1:K:377:TYR:O	2.18	0.43
1:K:489:SER:OG	1:K:494:ASP:HB2	2.19	0.43
1:L:539:VAL:O	1:L:541:ILE:HG13	2.19	0.43
1:M:429:SER:OG	1:M:431:ASP:OD1	2.23	0.43
1:M:484:ARG:NE	1:M:573:THR:O	2.51	0.43
1:M:539:VAL:O	1:M:541:ILE:HG13	2.19	0.43
1:N:255:HIS:CG	1:N:652:PRO:HB3	2.54	0.43
1:N:350:LEU:CG	1:N:398:PHE:HE2	2.32	0.43
1:O:274:GLY:HA3	1:O:377:TYR:O	2.18	0.43
1:Q:569:ASN:HD21	1:Q:606:TRP:CB	2.32	0.43
1:R:666:PHE:HD2	1:d:369:VAL:HG13	1.83	0.43
1:S:245:ARG:CD	1:S:366:PRO:HA	2.47	0.43
1:T:489:SER:OG	1:T:494:ASP:HB2	2.19	0.43
1:V:274:GLY:HA3	1:V:377:TYR:O	2.18	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:V:589:GLN:HA	1:j:496:ASN:ND2	2.33	0.43
1:W:255:HIS:CG	1:W:652:PRO:HB3	2.54	0.43
1:W:274:GLY:HA3	1:W:377:TYR:O	2.18	0.43
1:W:303:ASN:ND2	1:W:686:LEU:HD22	2.33	0.43
1:W:467:ALA:HA	1:W:470:ILE:HD11	2.00	0.43
1:W:614:GLN:N	1:W:614:GLN:OE1	2.51	0.43
1:X:569:ASN:HD21	1:X:606:TRP:CB	2.32	0.43
1:Y:350:LEU:CD1	1:Y:395:LEU:HD22	2.49	0.43
1:Z:350:LEU:CD1	1:Z:395:LEU:HD22	2.49	0.43
1:Z:552:VAL:HG13	1:t:462:PHE:HB2	2.00	0.43
1:a:274:GLY:HA3	1:a:377:TYR:O	2.18	0.43
1:a:348:TYR:H	1:a:348:TYR:HD2	1.65	0.43
1:b:397:TYR:HD2	1:b:398:PHE:HD1	1.66	0.43
1:c:238:ARG:NH2	1:c:685:GLU:OE2	2.52	0.43
1:c:397:TYR:HD2	1:c:398:PHE:HD1	1.66	0.43
1:e:374:GLN:HG3	1:e:375:TYR:N	2.34	0.43
1:e:569:ASN:HD21	1:e:606:TRP:CB	2.32	0.43
1:f:350:LEU:CD1	1:f:395:LEU:HD22	2.49	0.43
1:f:666:PHE:HD2	1:i:369:VAL:HG13	1.84	0.43
1:g:350:LEU:CD1	1:g:395:LEU:HD22	2.49	0.43
1:h:416:GLU:N	1:h:416:GLU:CD	2.74	0.43
1:h:539:VAL:O	1:h:541:ILE:HG13	2.19	0.43
1:i:589:GLN:HA	1:s:496:ASN:ND2	2.33	0.43
1:j:569:ASN:HD21	1:j:606:TRP:HB2	1.83	0.43
1:k:274:GLY:HA3	1:k:377:TYR:O	2.18	0.43
1:l:274:GLY:HA3	1:l:377:TYR:O	2.18	0.43
1:l:569:ASN:HD21	1:l:606:TRP:CB	2.32	0.43
1:m:273:PHE:CZ	1:m:386:ALA:HB2	2.53	0.43
1:p:369:VAL:HG13	1:5:666:PHE:HD2	1.83	0.43
1:q:350:LEU:CG	1:q:398:PHE:HE2	2.31	0.43
1:r:245:ARG:CD	1:r:366:PRO:HA	2.47	0.43
1:r:374:GLN:HG3	1:r:375:TYR:N	2.34	0.43
1:r:489:SER:OG	1:r:494:ASP:HB2	2.19	0.43
1:s:288:HIS:HD2	1:s:614:GLN:HA	1.84	0.43
1:t:288:HIS:HD2	1:t:614:GLN:HA	1.84	0.43
1:t:350:LEU:CG	1:t:398:PHE:HE2	2.31	0.43
1:t:397:TYR:HD2	1:t:398:PHE:HD1	1.66	0.43
1:u:274:GLY:HA3	1:u:377:TYR:O	2.18	0.43
1:v:416:GLU:N	1:v:416:GLU:CD	2.74	0.43
1:v:618:TRP:CZ3	1:v:643:PRO:HG2	2.54	0.43
1:v:695:ASN:HD21	1:7:710:VAL:HG11	1.84	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:w:238:ARG:NH2	1:w:685:GLU:OE2	2.52	0.43
1:w:350:LEU:CD1	1:w:395:LEU:HD22	2.49	0.43
1:w:569:ASN:HD21	1:w:606:TRP:CB	2.32	0.43
1:x:692:LYS:HZ1	1:7:397:TYR:HE2	1.67	0.43
1:y:238:ARG:NH2	1:y:685:GLU:OE2	2.52	0.43
1:y:261:SER:HA	1:y:272:TYR:O	2.18	0.43
1:y:274:GLY:HA3	1:y:377:TYR:O	2.18	0.43
1:y:569:ASN:HD21	1:y:606:TRP:HB2	1.83	0.43
1:z:525:SER:N	1:z:562:GLU:HB2	2.33	0.43
1:z:569:ASN:HD21	1:z:606:TRP:CB	2.32	0.43
1:3:274:GLY:HA3	1:3:377:TYR:O	2.18	0.43
1:4:350:LEU:CG	1:4:398:PHE:HE2	2.31	0.43
1:4:462:PHE:HB2	1:6:552:VAL:HG13	2.00	0.43
1:4:467:ALA:HA	1:4:470:ILE:HD11	2.00	0.43
1:4:489:SER:OG	1:4:494:ASP:HB2	2.19	0.43
1:5:255:HIS:CG	1:5:652:PRO:HB3	2.54	0.43
1:8:525:SER:N	1:8:562:GLU:HB2	2.33	0.43
1:A:539:VAL:O	1:A:541:ILE:HG13	2.19	0.42
1:A:569:ASN:HD21	1:A:606:TRP:CB	2.32	0.42
1:A:589:GLN:HA	1:e:496:ASN:ND2	2.34	0.42
1:B:238:ARG:NH2	1:B:685:GLU:OE2	2.52	0.42
1:B:255:HIS:CG	1:B:652:PRO:HB3	2.54	0.42
1:B:429:SER:OG	1:B:431:ASP:OD1	2.23	0.42
1:B:439:ASP:N	1:B:439:ASP:OD1	2.51	0.42
1:B:496:ASN:ND2	1:6:589:GLN:HA	2.33	0.42
1:B:539:VAL:O	1:B:541:ILE:HG13	2.19	0.42
1:B:614:GLN:N	1:B:614:GLN:OE1	2.51	0.42
1:B:695:ASN:HD21	1:8:710:VAL:HG11	1.84	0.42
1:C:273:PHE:CZ	1:C:386:ALA:HB2	2.53	0.42
1:C:288:HIS:HD2	1:C:614:GLN:HA	1.84	0.42
1:C:350:LEU:CD1	1:C:395:LEU:HD22	2.49	0.42
1:D:589:GLN:HA	1:q:496:ASN:ND2	2.31	0.42
1:E:350:LEU:CD1	1:E:395:LEU:HD22	2.49	0.42
1:F:261:SER:HA	1:F:272:TYR:O	2.18	0.42
1:F:374:GLN:HG3	1:F:375:TYR:N	2.34	0.42
1:F:539:VAL:O	1:F:541:ILE:HG13	2.19	0.42
1:F:569:ASN:HD21	1:F:606:TRP:HB2	1.83	0.42
1:G:397:TYR:HD2	1:G:398:PHE:HD1	1.66	0.42
1:H:287:PHE:CG	1:H:617:ILE:HG22	2.54	0.42
1:I:261:SER:HA	1:I:272:TYR:O	2.18	0.42
1:I:274:GLY:HA3	1:I:377:TYR:O	2.18	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:287:PHE:CG	1:I:617:ILE:HG22	2.54	0.42
1:I:302:ASN:HD21	1:Q:302:ASN:ND2	2.10	0.42
1:I:350:LEU:CD1	1:I:395:LEU:HD22	2.49	0.42
1:I:374:GLN:HG3	1:I:375:TYR:N	2.34	0.42
1:J:255:HIS:CG	1:J:652:PRO:HB3	2.54	0.42
1:K:350:LEU:CG	1:K:398:PHE:HE2	2.31	0.42
1:K:416:GLU:N	1:K:416:GLU:CD	2.74	0.42
1:L:287:PHE:CG	1:L:617:ILE:HG22	2.54	0.42
1:M:350:LEU:CD1	1:M:395:LEU:HD22	2.49	0.42
1:M:467:ALA:HA	1:M:470:ILE:HD11	2.00	0.42
1:N:288:HIS:HD2	1:N:614:GLN:HA	1.84	0.42
1:N:369:VAL:HG13	1:b:666:PHE:HD2	1.84	0.42
1:N:589:GLN:HA	1:U:496:ASN:ND2	2.33	0.42
1:O:666:PHE:HD2	1:s:369:VAL:HG13	1.83	0.42
1:Q:238:ARG:NH2	1:Q:685:GLU:OE2	2.52	0.42
1:Q:539:VAL:O	1:Q:541:ILE:HG13	2.19	0.42
1:S:374:GLN:HG3	1:S:375:TYR:N	2.34	0.42
1:T:467:ALA:HA	1:T:470:ILE:HD11	2.00	0.42
1:T:569:ASN:HD21	1:T:606:TRP:HB2	1.83	0.42
1:T:710:VAL:HG11	1:m:695:ASN:HD21	1.84	0.42
1:U:274:GLY:HA3	1:U:377:TYR:O	2.18	0.42
1:U:369:VAL:HG13	1:l:666:PHE:HD2	1.83	0.42
1:V:349:GLN:NE2	1:V:349:GLN:CA	2.73	0.42
1:V:525:SER:N	1:V:562:GLU:HB2	2.33	0.42
1:W:589:GLN:HA	1:1:496:ASN:ND2	2.33	0.42
1:Y:287:PHE:CG	1:Y:617:ILE:HG22	2.54	0.42
1:Y:369:VAL:HG13	1:e:666:PHE:HD2	1.84	0.42
1:Y:489:SER:OG	1:Y:494:ASP:HB2	2.19	0.42
1:b:374:GLN:HG3	1:b:375:TYR:N	2.34	0.42
1:c:416:GLU:N	1:c:416:GLU:CD	2.74	0.42
1:c:489:SER:OG	1:c:494:ASP:HB2	2.19	0.42
1:c:569:ASN:HD21	1:c:606:TRP:CB	2.32	0.42
1:c:614:GLN:N	1:c:614:GLN:OE1	2.51	0.42
1:d:462:PHE:HB2	1:y:552:VAL:HG13	2.00	0.42
1:e:397:TYR:HD2	1:e:398:PHE:HD1	1.66	0.42
1:f:374:GLN:HG3	1:f:375:TYR:N	2.34	0.42
1:g:287:PHE:CG	1:g:617:ILE:HG22	2.54	0.42
1:g:374:GLN:HG3	1:g:375:TYR:N	2.34	0.42
1:h:302:ASN:ND2	1:2:302:ASN:HD21	2.09	0.42
1:h:350:LEU:CD1	1:h:395:LEU:HD22	2.49	0.42
1:h:467:ALA:HA	1:h:470:ILE:HD11	2.00	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:h:569:ASN:HD21	1:h:606:TRP:CB	2.32	0.42
1:i:525:SER:N	1:i:562:GLU:HB2	2.33	0.42
1:k:539:VAL:O	1:k:541:ILE:HG13	2.19	0.42
1:l:288:HIS:HD2	1:l:614:GLN:HA	1.84	0.42
1:l:489:SER:OG	1:l:494:ASP:HB2	2.19	0.42
1:m:467:ALA:HA	1:m:470:ILE:HD11	2.00	0.42
1:m:569:ASN:HD21	1:m:606:TRP:HB2	1.83	0.42
1:o:246:THR:HA	1:o:677:GLN:H	1.83	0.42
1:o:303:ASN:ND2	1:o:686:LEU:HD22	2.33	0.42
1:o:569:ASN:HD21	1:o:606:TRP:CB	2.32	0.42
1:o:589:GLN:HA	1:w:496:ASN:ND2	2.33	0.42
1:p:274:GLY:HA3	1:p:377:TYR:O	2.18	0.42
1:q:238:ARG:NH2	1:q:685:GLU:OE2	2.52	0.42
1:r:398:PHE:HE1	1:5:692:LYS:HB3	1.84	0.42
1:u:287:PHE:CG	1:u:617:ILE:HG22	2.54	0.42
1:u:618:TRP:CZ3	1:u:643:PRO:HG2	2.54	0.42
1:v:350:LEU:CD1	1:v:395:LEU:HD22	2.49	0.42
1:v:525:SER:N	1:v:562:GLU:HB2	2.33	0.42
1:v:539:VAL:O	1:v:541:ILE:HG13	2.19	0.42
1:x:238:ARG:NH2	1:x:685:GLU:OE2	2.52	0.42
1:x:539:VAL:O	1:x:541:ILE:HG13	2.19	0.42
1:y:350:LEU:CD1	1:y:395:LEU:HD22	2.49	0.42
1:y:374:GLN:HG3	1:y:375:TYR:N	2.34	0.42
1:y:489:SER:OG	1:y:494:ASP:HB2	2.19	0.42
1:y:539:VAL:O	1:y:541:ILE:HG13	2.19	0.42
1:z:287:PHE:CG	1:z:617:ILE:HG22	2.54	0.42
1:1:238:ARG:NH2	1:1:685:GLU:OE2	2.52	0.42
1:1:614:GLN:N	1:1:614:GLN:OE1	2.51	0.42
1:2:255:HIS:CG	1:2:652:PRO:HB3	2.54	0.42
1:5:287:PHE:CG	1:5:617:ILE:HG22	2.55	0.42
1:7:287:PHE:CG	1:7:617:ILE:HG22	2.54	0.42
1:7:489:SER:OG	1:7:494:ASP:HB2	2.19	0.42
1:A:255:HIS:CG	1:A:652:PRO:HB3	2.54	0.42
1:A:287:PHE:CG	1:A:617:ILE:HG22	2.54	0.42
1:A:350:LEU:CD1	1:A:395:LEU:HD22	2.49	0.42
1:A:525:SER:N	1:A:562:GLU:HB2	2.33	0.42
1:C:287:PHE:CG	1:C:617:ILE:HG22	2.54	0.42
1:C:710:VAL:HG11	1:p:695:ASN:HD21	1.84	0.42
1:D:302:ASN:ND2	1:n:302:ASN:HD21	2.09	0.42
1:D:539:VAL:O	1:D:541:ILE:HG13	2.19	0.42
1:E:288:HIS:HD2	1:E:614:GLN:HA	1.84	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:374:GLN:HG3	1:E:375:TYR:N	2.34	0.42
1:E:539:VAL:O	1:E:541:ILE:HG13	2.19	0.42
1:E:552:VAL:HG13	1:X:462:PHE:HB2	2.00	0.42
1:G:614:GLN:N	1:G:614:GLN:OE1	2.51	0.42
1:H:274:GLY:HA3	1:H:377:TYR:O	2.18	0.42
1:I:288:HIS:HD2	1:I:614:GLN:HA	1.84	0.42
1:I:618:TRP:CZ3	1:I:643:PRO:HG2	2.54	0.42
1:K:374:GLN:HG3	1:K:375:TYR:N	2.34	0.42
1:K:462:PHE:HB2	1:W:552:VAL:HG13	2.00	0.42
1:L:350:LEU:CD1	1:L:395:LEU:HD22	2.49	0.42
1:L:489:SER:OG	1:L:494:ASP:HB2	2.19	0.42
1:M:569:ASN:HD21	1:M:606:TRP:CB	2.32	0.42
1:N:350:LEU:CD1	1:N:395:LEU:HD22	2.49	0.42
1:N:467:ALA:HA	1:N:470:ILE:HD11	2.00	0.42
1:O:489:SER:OG	1:O:494:ASP:HB2	2.19	0.42
1:P:287:PHE:CG	1:P:617:ILE:HG22	2.54	0.42
1:R:238:ARG:NH2	1:R:685:GLU:OE2	2.52	0.42
1:R:710:VAL:HG11	1:l:695:ASN:HD21	1.84	0.42
1:S:287:PHE:CG	1:S:617:ILE:HG22	2.54	0.42
1:S:489:SER:OG	1:S:494:ASP:HB2	2.19	0.42
1:T:273:PHE:CZ	1:T:386:ALA:HB2	2.53	0.42
1:V:287:PHE:CG	1:V:617:ILE:HG22	2.54	0.42
1:V:496:ASN:ND2	1:2:589:GLN:HA	2.33	0.42
1:V:695:ASN:HD21	1:g:710:VAL:HG11	1.84	0.42
1:W:238:ARG:NH2	1:W:685:GLU:OE2	2.52	0.42
1:W:246:THR:HA	1:W:677:GLN:H	1.83	0.42
1:X:246:THR:HA	1:X:677:GLN:H	1.83	0.42
1:X:288:HIS:HD2	1:X:614:GLN:HA	1.84	0.42
1:X:303:ASN:ND2	1:X:686:LEU:HD22	2.33	0.42
1:X:397:TYR:HD2	1:X:398:PHE:CD1	2.38	0.42
1:X:539:VAL:O	1:X:541:ILE:HG13	2.19	0.42
1:a:496:ASN:ND2	1:c:589:GLN:HA	2.33	0.42
1:a:569:ASN:HD21	1:a:606:TRP:HB2	1.83	0.42
1:b:238:ARG:NH2	1:b:685:GLU:OE2	2.52	0.42
1:b:246:THR:HA	1:b:677:GLN:H	1.83	0.42
1:c:374:GLN:HG3	1:c:375:TYR:N	2.34	0.42
1:d:238:ARG:NH2	1:d:685:GLU:OE2	2.52	0.42
1:d:302:ASN:HD21	1:k:302:ASN:ND2	2.09	0.42
1:d:350:LEU:CD1	1:d:395:LEU:HD22	2.49	0.42
1:e:614:GLN:N	1:e:614:GLN:OE1	2.51	0.42
1:f:238:ARG:NH2	1:f:685:GLU:OE2	2.52	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:f:246:THR:HA	1:f:677:GLN:H	1.83	0.42
1:f:397:TYR:HD2	1:f:398:PHE:HD1	1.66	0.42
1:f:710:VAL:HG11	1:j:695:ASN:HD21	1.84	0.42
1:g:273:PHE:CZ	1:g:386:ALA:HB2	2.53	0.42
1:g:288:HIS:HD2	1:g:614:GLN:HA	1.84	0.42
1:i:288:HIS:HD2	1:i:614:GLN:HA	1.84	0.42
1:i:695:ASN:HD21	1:y:710:VAL:HG11	1.84	0.42
1:j:287:PHE:CG	1:j:617:ILE:HG22	2.54	0.42
1:k:288:HIS:CE1	1:k:364:PRO:HG3	2.53	0.42
1:k:350:LEU:CG	1:k:398:PHE:HE2	2.31	0.42
1:k:429:SER:HA	1:k:567:THR:HB	2.02	0.42
1:m:395:LEU:H	1:m:395:LEU:HG	1.48	0.42
1:n:238:ARG:NH2	1:n:685:GLU:OE2	2.52	0.42
1:o:238:ARG:NH2	1:o:685:GLU:OE2	2.52	0.42
1:o:288:HIS:HD2	1:o:614:GLN:HA	1.84	0.42
1:o:397:TYR:HD2	1:o:398:PHE:CD1	2.38	0.42
1:p:255:HIS:CG	1:p:652:PRO:HB3	2.54	0.42
1:p:287:PHE:CG	1:p:617:ILE:HG22	2.54	0.42
1:q:274:GLY:HA3	1:q:377:TYR:O	2.18	0.42
1:r:255:HIS:CG	1:r:652:PRO:HB3	2.54	0.42
1:s:274:GLY:HA3	1:s:377:TYR:O	2.18	0.42
1:s:429:SER:HA	1:s:567:THR:HB	2.02	0.42
1:u:261:SER:HA	1:u:272:TYR:O	2.18	0.42
1:u:350:LEU:CD1	1:u:395:LEU:HD22	2.49	0.42
1:w:255:HIS:CG	1:w:652:PRO:HB3	2.54	0.42
1:w:397:TYR:HD2	1:w:398:PHE:HD1	1.66	0.42
1:w:397:TYR:HD2	1:w:398:PHE:CD1	2.37	0.42
1:x:350:LEU:CD1	1:x:395:LEU:HD22	2.49	0.42
1:x:397:TYR:HD2	1:x:398:PHE:CD1	2.37	0.42
1:y:245:ARG:CD	1:y:366:PRO:HA	2.47	0.42
1:y:350:LEU:CG	1:y:398:PHE:HE2	2.31	0.42
1:y:397:TYR:HD2	1:y:398:PHE:CD1	2.38	0.42
1:z:489:SER:OG	1:z:494:ASP:HB2	2.19	0.42
1:1:255:HIS:CG	1:1:652:PRO:HB3	2.54	0.42
1:1:397:TYR:HD2	1:1:398:PHE:HD1	1.66	0.42
1:1:439:ASP:N	1:1:439:ASP:OD1	2.51	0.42
1:1:539:VAL:O	1:1:541:ILE:HG13	2.19	0.42
1:2:288:HIS:HD2	1:2:614:GLN:HA	1.84	0.42
1:2:350:LEU:CD1	1:2:395:LEU:HD22	2.49	0.42
1:5:288:HIS:HD2	1:5:614:GLN:HA	1.84	0.42
1:5:467:ALA:HA	1:5:470:ILE:HD11	2.00	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:5:489:SER:OG	1:5:494:ASP:HB2	2.19	0.42
1:6:238:ARG:NH2	1:6:685:GLU:OE2	2.52	0.42
1:6:274:GLY:HA3	1:6:377:TYR:O	2.18	0.42
1:6:350:LEU:CD1	1:6:395:LEU:HD22	2.49	0.42
1:7:374:GLN:HG3	1:7:375:TYR:N	2.34	0.42
1:A:374:GLN:HG3	1:A:375:TYR:N	2.34	0.42
1:A:397:TYR:HD2	1:A:398:PHE:CD1	2.38	0.42
1:B:302:ASN:ND2	1:8:302:ASN:HD21	2.09	0.42
1:C:283:ASP:O	1:C:361:CYS:HA	2.20	0.42
1:C:640:LYS:HE3	1:C:640:LYS:HB3	1.89	0.42
1:D:288:HIS:CE1	1:D:364:PRO:HG3	2.53	0.42
1:D:350:LEU:CG	1:D:398:PHE:HE2	2.32	0.42
1:D:369:VAL:HG13	1:F:666:PHE:HD2	1.83	0.42
1:D:429:SER:HA	1:D:567:THR:HB	2.02	0.42
1:D:695:ASN:HD21	1:n:710:VAL:HG11	1.84	0.42
1:E:255:HIS:CG	1:E:652:PRO:HB3	2.54	0.42
1:E:397:TYR:HD2	1:E:398:PHE:CD1	2.38	0.42
1:E:397:TYR:HD2	1:E:398:PHE:HD1	1.66	0.42
1:E:589:GLN:HA	1:l:496:ASN:ND2	2.33	0.42
1:F:350:LEU:CG	1:F:398:PHE:HE2	2.31	0.42
1:F:397:TYR:HD2	1:F:398:PHE:CD1	2.38	0.42
1:F:710:VAL:HG11	1:N:695:ASN:HD21	1.84	0.42
1:G:518:ASN:N	1:G:519:PRO:CD	2.82	0.42
1:G:569:ASN:HD21	1:G:606:TRP:CB	2.32	0.42
1:H:350:LEU:CG	1:H:398:PHE:HE2	2.31	0.42
1:H:467:ALA:HA	1:H:470:ILE:HD11	2.00	0.42
1:H:589:GLN:HA	1:S:496:ASN:ND2	2.33	0.42
1:J:288:HIS:HD2	1:J:614:GLN:HA	1.84	0.42
1:J:350:LEU:CD1	1:J:395:LEU:HD22	2.49	0.42
1:J:467:ALA:HA	1:J:470:ILE:HD11	2.00	0.42
1:J:496:ASN:ND2	1:P:589:GLN:HA	2.33	0.42
1:K:467:ALA:HA	1:K:470:ILE:HD11	2.00	0.42
1:N:374:GLN:HG3	1:N:375:TYR:N	2.34	0.42
1:N:525:SER:N	1:N:562:GLU:HB2	2.33	0.42
1:P:439:ASP:N	1:P:439:ASP:OD1	2.51	0.42
1:P:552:VAL:CG2	1:P:556:LYS:HB2	2.50	0.42
1:P:695:ASN:HD21	1:b:710:VAL:HG11	1.84	0.42
1:P:710:VAL:HG11	1:b:695:ASN:HD21	1.84	0.42
1:Q:287:PHE:CG	1:Q:617:ILE:HG22	2.54	0.42
1:Q:350:LEU:CD1	1:Q:395:LEU:HD22	2.49	0.42
1:Q:397:TYR:HD2	1:Q:398:PHE:CD1	2.37	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:S:255:HIS:CG	1:S:652:PRO:HB3	2.54	0.42
1:S:413:TYR:CE2	1:S:643:PRO:CA	3.03	0.42
1:T:539:VAL:O	1:T:541:ILE:HG13	2.19	0.42
1:U:255:HIS:CG	1:U:652:PRO:HB3	2.54	0.42
1:U:288:HIS:HD2	1:U:614:GLN:HA	1.84	0.42
1:U:552:VAL:CG2	1:U:556:LYS:HB2	2.50	0.42
1:V:255:HIS:CG	1:V:652:PRO:HB3	2.54	0.42
1:V:395:LEU:H	1:V:395:LEU:HG	1.48	0.42
1:W:288:HIS:HD2	1:W:614:GLN:HA	1.84	0.42
1:W:350:LEU:CD1	1:W:395:LEU:HD22	2.49	0.42
1:W:374:GLN:HG3	1:W:375:TYR:N	2.34	0.42
1:W:462:PHE:HB2	1:1:552:VAL:HG13	2.00	0.42
1:X:238:ARG:NH2	1:X:685:GLU:OE2	2.52	0.42
1:X:413:TYR:CE2	1:X:643:PRO:CA	3.03	0.42
1:X:489:SER:OG	1:X:494:ASP:HB2	2.19	0.42
1:Y:274:GLY:HA3	1:Y:377:TYR:O	2.18	0.42
1:Y:374:GLN:HG3	1:Y:375:TYR:N	2.34	0.42
1:a:413:TYR:CE2	1:a:643:PRO:CA	3.03	0.42
1:b:429:SER:HA	1:b:567:THR:HB	2.02	0.42
1:d:350:LEU:HD21	1:d:398:PHE:HE2	1.80	0.42
1:e:489:SER:OG	1:e:494:ASP:HB2	2.19	0.42
1:e:552:VAL:CG2	1:e:556:LYS:HB2	2.50	0.42
1:f:439:ASP:OD1	1:f:439:ASP:N	2.51	0.42
1:f:618:TRP:CZ3	1:f:643:PRO:HG2	2.54	0.42
1:g:255:HIS:CG	1:g:652:PRO:HB3	2.54	0.42
1:g:283:ASP:O	1:g:361:CYS:HA	2.20	0.42
1:h:518:ASN:N	1:h:519:PRO:CD	2.82	0.42
1:i:238:ARG:NH2	1:i:685:GLU:OE2	2.52	0.42
1:i:350:LEU:CD1	1:i:395:LEU:HD22	2.49	0.42
1:i:467:ALA:HA	1:i:470:ILE:HD11	2.00	0.42
1:i:618:TRP:CZ3	1:i:643:PRO:HG2	2.54	0.42
1:j:283:ASP:O	1:j:361:CYS:HA	2.20	0.42
1:j:692:LYS:HB3	1:2:398:PHE:HE1	1.85	0.42
1:m:539:VAL:O	1:m:541:ILE:HG13	2.19	0.42
1:n:350:LEU:CD1	1:n:395:LEU:HD22	2.49	0.42
1:n:539:VAL:O	1:n:541:ILE:HG13	2.19	0.42
1:o:429:SER:OG	1:o:431:ASP:OD1	2.23	0.42
1:o:539:VAL:O	1:o:541:ILE:HG13	2.19	0.42
1:p:349:GLN:NE2	1:p:349:GLN:CA	2.73	0.42
1:p:525:SER:N	1:p:562:GLU:HB2	2.33	0.42
1:q:569:ASN:HD21	1:q:606:TRP:CB	2.32	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:r:287:PHE:CG	1:r:617:ILE:HG22	2.54	0.42
1:s:666:PHE:HD2	1:y:369:VAL:HG13	1.83	0.42
1:t:569:ASN:HD21	1:t:606:TRP:CB	2.32	0.42
1:t:614:GLN:N	1:t:614:GLN:OE1	2.51	0.42
1:u:288:HIS:HD2	1:u:614:GLN:HA	1.84	0.42
1:v:287:PHE:CG	1:v:617:ILE:HG22	2.54	0.42
1:v:569:ASN:HD21	1:v:606:TRP:CB	2.32	0.42
1:w:288:HIS:HD2	1:w:614:GLN:HA	1.84	0.42
1:x:253:ASN:O	1:x:254:ASN:C	2.63	0.42
1:y:569:ASN:HD21	1:y:606:TRP:CB	2.32	0.42
1:2:467:ALA:HA	1:2:470:ILE:HD11	2.00	0.42
1:3:348:TYR:H	1:3:348:TYR:HD2	1.65	0.42
1:3:374:GLN:HG3	1:3:375:TYR:N	2.34	0.42
1:3:489:SER:OG	1:3:494:ASP:HB2	2.19	0.42
1:3:569:ASN:HD21	1:3:606:TRP:HB2	1.83	0.42
1:4:287:PHE:CG	1:4:617:ILE:HG22	2.54	0.42
1:4:374:GLN:HG3	1:4:375:TYR:N	2.34	0.42
1:4:429:SER:HA	1:4:567:THR:HB	2.02	0.42
1:5:350:LEU:CG	1:5:398:PHE:HE2	2.31	0.42
1:6:288:HIS:HD2	1:6:614:GLN:HA	1.84	0.42
1:6:374:GLN:HG3	1:6:375:TYR:N	2.34	0.42
1:6:397:TYR:HD2	1:6:398:PHE:CD1	2.38	0.42
1:7:274:GLY:HA3	1:7:377:TYR:O	2.18	0.42
1:7:518:ASN:N	1:7:519:PRO:CD	2.82	0.42
1:7:539:VAL:O	1:7:541:ILE:HG13	2.19	0.42
1:8:255:HIS:CG	1:8:652:PRO:HB3	2.54	0.42
1:B:467:ALA:HA	1:B:470:ILE:HD11	2.00	0.42
1:B:618:TRP:CZ3	1:B:643:PRO:HG2	2.54	0.42
1:C:255:HIS:CG	1:C:652:PRO:HB3	2.54	0.42
1:C:614:GLN:N	1:C:614:GLN:OE1	2.51	0.42
1:C:695:ASN:HD21	1:p:710:VAL:HG11	1.84	0.42
1:D:350:LEU:CD1	1:D:395:LEU:HD22	2.49	0.42
1:E:552:VAL:CG2	1:E:556:LYS:HB2	2.50	0.42
1:E:666:PHE:HD2	1:S:369:VAL:HG13	1.82	0.42
1:F:283:ASP:O	1:F:361:CYS:HA	2.20	0.42
1:G:397:TYR:HE2	1:M:692:LYS:HZ1	1.66	0.42
1:G:695:ASN:HD21	1:L:710:VAL:HG11	1.84	0.42
1:G:710:VAL:HG11	1:L:695:ASN:HD21	1.85	0.42
1:H:245:ARG:CD	1:H:366:PRO:HA	2.47	0.42
1:H:348:TYR:H	1:H:348:TYR:HD2	1.65	0.42
1:H:413:TYR:CE2	1:H:643:PRO:CA	3.03	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:489:SER:OG	1:H:494:ASP:HB2	2.19	0.42
1:H:518:ASN:N	1:H:519:PRO:CD	2.82	0.42
1:I:413:TYR:CE2	1:I:643:PRO:CA	3.03	0.42
1:J:283:ASP:O	1:J:361:CYS:HA	2.20	0.42
1:J:397:TYR:HD2	1:J:398:PHE:CD1	2.38	0.42
1:J:429:SER:HA	1:J:567:THR:HB	2.02	0.42
1:K:287:PHE:CG	1:K:617:ILE:HG22	2.55	0.42
1:K:429:SER:HA	1:K:567:THR:HB	2.02	0.42
1:N:238:ARG:NH2	1:N:685:GLU:OE2	2.52	0.42
1:N:348:TYR:H	1:N:348:TYR:HD2	1.65	0.42
1:N:431:ASP:O	1:N:475:ARG:NH2	2.48	0.42
1:N:618:TRP:CZ3	1:N:643:PRO:HG2	2.54	0.42
1:N:692:LYS:HB3	1:U:398:PHE:HE1	1.85	0.42
1:O:350:LEU:CG	1:O:398:PHE:HE2	2.31	0.42
1:P:238:ARG:NH2	1:P:685:GLU:OE2	2.52	0.42
1:P:283:ASP:O	1:P:361:CYS:HA	2.20	0.42
1:Q:253:ASN:O	1:Q:254:ASN:C	2.63	0.42
1:R:274:GLY:HA3	1:R:377:TYR:O	2.18	0.42
1:R:374:GLN:HG3	1:R:375:TYR:N	2.34	0.42
1:R:397:TYR:HD2	1:R:398:PHE:HD1	1.66	0.42
1:R:552:VAL:HG13	1:k:462:PHE:HB2	2.00	0.42
1:T:246:THR:HA	1:T:677:GLN:H	1.83	0.42
1:T:255:HIS:CG	1:T:652:PRO:HB3	2.54	0.42
1:T:374:GLN:HG3	1:T:375:TYR:N	2.34	0.42
1:U:243:SER:HB2	1:U:245:ARG:NH1	2.21	0.42
1:U:253:ASN:O	1:U:254:ASN:C	2.63	0.42
1:U:413:TYR:CE2	1:U:643:PRO:CA	3.03	0.42
1:U:429:SER:HA	1:U:567:THR:HB	2.02	0.42
1:U:467:ALA:HA	1:U:470:ILE:HD11	2.00	0.42
1:V:238:ARG:NH2	1:V:685:GLU:OE2	2.52	0.42
1:W:397:TYR:HD2	1:W:398:PHE:CD1	2.38	0.42
1:X:287:PHE:CG	1:X:617:ILE:HG22	2.54	0.42
1:Y:539:VAL:O	1:Y:541:ILE:HG13	2.19	0.42
1:Z:710:VAL:HG11	1:1:695:ASN:HD21	1.85	0.42
1:a:374:GLN:HG3	1:a:375:TYR:N	2.34	0.42
1:b:618:TRP:CZ3	1:b:643:PRO:HG2	2.54	0.42
1:c:287:PHE:CG	1:c:617:ILE:HG22	2.54	0.42
1:c:552:VAL:CG2	1:c:556:LYS:HB2	2.50	0.42
1:d:539:VAL:O	1:d:541:ILE:HG13	2.19	0.42
1:d:618:TRP:CZ3	1:d:643:PRO:HG2	2.54	0.42
1:e:245:ARG:CD	1:e:366:PRO:HA	2.47	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:e:416:GLU:N	1:e:416:GLU:CD	2.74	0.42
1:f:429:SER:HA	1:f:567:THR:HB	2.02	0.42
1:g:439:ASP:N	1:g:439:ASP:OD1	2.51	0.42
1:g:489:SER:OG	1:g:494:ASP:HB2	2.19	0.42
1:h:238:ARG:NH2	1:h:685:GLU:OE2	2.52	0.42
1:i:348:TYR:H	1:i:348:TYR:HD2	1.65	0.42
1:i:374:GLN:HG3	1:i:375:TYR:N	2.34	0.42
1:j:253:ASN:O	1:j:254:ASN:C	2.63	0.42
1:j:552:VAL:CG2	1:j:556:LYS:HB2	2.50	0.42
1:k:350:LEU:CD1	1:k:395:LEU:HD22	2.49	0.42
1:l:350:LEU:CD1	1:l:395:LEU:HD22	2.49	0.42
1:m:246:THR:HA	1:m:677:GLN:H	1.83	0.42
1:m:374:GLN:HG3	1:m:375:TYR:N	2.34	0.42
1:n:283:ASP:O	1:n:361:CYS:HA	2.20	0.42
1:n:374:GLN:HG3	1:n:375:TYR:N	2.34	0.42
1:n:618:TRP:CZ3	1:n:643:PRO:HG2	2.54	0.42
1:n:640:LYS:HE3	1:n:640:LYS:HB3	1.89	0.42
1:o:413:TYR:CE2	1:o:643:PRO:CA	3.03	0.42
1:o:462:PHE:HB2	1:w:552:VAL:HG13	2.00	0.42
1:o:489:SER:OG	1:o:494:ASP:HB2	2.19	0.42
1:p:238:ARG:NH2	1:p:685:GLU:OE2	2.52	0.42
1:p:489:SER:OG	1:p:494:ASP:HB2	2.19	0.42
1:q:397:TYR:HD2	1:q:398:PHE:HD1	1.66	0.42
1:r:350:LEU:CG	1:r:398:PHE:HE2	2.31	0.42
1:r:413:TYR:CE2	1:r:643:PRO:CA	3.03	0.42
1:s:253:ASN:O	1:s:254:ASN:C	2.63	0.42
1:s:413:TYR:CE2	1:s:643:PRO:CA	3.03	0.42
1:s:539:VAL:O	1:s:541:ILE:HG13	2.19	0.42
1:s:552:VAL:CG2	1:s:556:LYS:HB2	2.50	0.42
1:t:710:VAL:HG11	1:z:695:ASN:HD21	1.84	0.42
1:u:666:PHE:HD2	1:w:369:VAL:HG13	1.83	0.42
1:v:255:HIS:CG	1:v:652:PRO:HB3	2.54	0.42
1:v:288:HIS:HD2	1:v:614:GLN:HA	1.84	0.42
1:v:374:GLN:HG3	1:v:375:TYR:N	2.34	0.42
1:v:397:TYR:HD2	1:v:398:PHE:CD1	2.38	0.42
1:v:489:SER:OG	1:v:494:ASP:HB2	2.19	0.42
1:w:374:GLN:HG3	1:w:375:TYR:N	2.34	0.42
1:x:287:PHE:CG	1:x:617:ILE:HG22	2.54	0.42
1:z:255:HIS:CG	1:z:652:PRO:HB3	2.54	0.42
1:z:350:LEU:CD1	1:z:395:LEU:HD22	2.49	0.42
1:2:283:ASP:O	1:2:361:CYS:HA	2.20	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:2:397:TYR:HD2	1:2:398:PHE:CD1	2.38	0.42
1:3:255:HIS:CG	1:3:652:PRO:HB3	2.54	0.42
1:3:413:TYR:CE2	1:3:643:PRO:CA	3.03	0.42
1:5:274:GLY:HA3	1:5:377:TYR:O	2.18	0.42
1:5:413:TYR:CE2	1:5:643:PRO:CA	3.03	0.42
1:6:246:THR:HA	1:6:677:GLN:H	1.83	0.42
1:6:518:ASN:N	1:6:519:PRO:CD	2.82	0.42
1:A:288:HIS:HD2	1:A:614:GLN:HA	1.84	0.42
1:A:367:ALA:HB2	1:L:257:TYR:HE2	1.85	0.42
1:A:413:TYR:CE2	1:A:643:PRO:CA	3.03	0.42
1:A:489:SER:OG	1:A:494:ASP:HB2	2.19	0.42
1:B:253:ASN:O	1:B:254:ASN:C	2.63	0.42
1:C:489:SER:OG	1:C:494:ASP:HB2	2.19	0.42
1:C:539:VAL:O	1:C:541:ILE:HG13	2.19	0.42
1:C:666:PHE:HD2	1:o:369:VAL:HG13	1.84	0.42
1:E:369:VAL:HG13	1:I:666:PHE:HD2	1.83	0.42
1:E:489:SER:OG	1:E:494:ASP:HB2	2.19	0.42
1:F:245:ARG:CD	1:F:366:PRO:HA	2.47	0.42
1:F:569:ASN:HD21	1:F:606:TRP:CB	2.32	0.42
1:G:238:ARG:NH2	1:G:685:GLU:OE2	2.52	0.42
1:H:238:ARG:NH2	1:H:685:GLU:OE2	2.52	0.42
1:H:288:HIS:HD2	1:H:614:GLN:HA	1.84	0.42
1:J:395:LEU:H	1:J:395:LEU:HG	1.48	0.42
1:K:238:ARG:NH2	1:K:685:GLU:OE2	2.52	0.42
1:K:539:VAL:O	1:K:541:ILE:HG13	2.19	0.42
1:K:552:VAL:CG2	1:K:556:LYS:HB2	2.50	0.42
1:L:255:HIS:CG	1:L:652:PRO:HB3	2.54	0.42
1:L:413:TYR:CE2	1:L:643:PRO:CA	3.03	0.42
1:L:518:ASN:N	1:L:519:PRO:CD	2.82	0.42
1:M:238:ARG:NH2	1:M:685:GLU:OE2	2.52	0.42
1:M:287:PHE:CG	1:M:617:ILE:HG22	2.54	0.42
1:N:245:ARG:CD	1:N:366:PRO:HA	2.47	0.42
1:N:413:TYR:CE2	1:N:643:PRO:CA	3.03	0.42
1:N:489:SER:OG	1:N:494:ASP:HB2	2.19	0.42
1:O:287:PHE:CG	1:O:617:ILE:HG22	2.54	0.42
1:O:350:LEU:CD1	1:O:395:LEU:HD22	2.49	0.42
1:O:496:ASN:ND2	1:w:589:GLN:HA	2.33	0.42
1:Q:552:VAL:CG2	1:Q:556:LYS:HB2	2.50	0.42
1:R:255:HIS:CG	1:R:652:PRO:HB3	2.54	0.42
1:R:569:ASN:HD21	1:R:606:TRP:CB	2.32	0.42
1:R:695:ASN:HD21	1:l:710:VAL:HG11	1.84	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:S:350:LEU:CG	1:S:398:PHE:HE2	2.32	0.42
1:S:569:ASN:HD21	1:S:606:TRP:CB	2.32	0.42
1:S:583:LEU:HD13	1:g:487:ARG:NE	2.35	0.42
1:T:350:LEU:CD1	1:T:395:LEU:HD22	2.49	0.42
1:U:287:PHE:CG	1:U:617:ILE:HG22	2.54	0.42
1:V:348:TYR:H	1:V:348:TYR:HD2	1.65	0.42
1:V:489:SER:OG	1:V:494:ASP:HB2	2.19	0.42
1:V:710:VAL:HG11	1:g:695:ASN:HD21	1.84	0.42
1:W:552:VAL:CG2	1:W:556:LYS:HB2	2.50	0.42
1:X:369:VAL:HG13	1:g:666:PHE:HD2	1.84	0.42
1:X:484:ARG:NE	1:X:573:THR:O	2.51	0.42
1:Y:283:ASP:O	1:Y:361:CYS:HA	2.20	0.42
1:Y:525:SER:N	1:Y:562:GLU:HB2	2.33	0.42
1:Z:238:ARG:NH2	1:Z:685:GLU:OE2	2.52	0.42
1:Z:255:HIS:CG	1:Z:652:PRO:HB3	2.54	0.42
1:Z:618:TRP:CZ3	1:Z:643:PRO:HG2	2.54	0.42
1:a:255:HIS:CG	1:a:652:PRO:HB3	2.54	0.42
1:a:397:TYR:HD2	1:a:398:PHE:CD1	2.38	0.42
1:a:489:SER:OG	1:a:494:ASP:HB2	2.19	0.42
1:a:569:ASN:HD21	1:a:606:TRP:CB	2.32	0.42
1:b:439:ASP:OD1	1:b:439:ASP:N	2.51	0.42
1:c:245:ARG:CD	1:c:366:PRO:HA	2.47	0.42
1:d:255:HIS:CG	1:d:652:PRO:HB3	2.54	0.42
1:d:283:ASP:O	1:d:361:CYS:HA	2.20	0.42
1:d:374:GLN:HG3	1:d:375:TYR:N	2.34	0.42
1:e:283:ASP:O	1:e:361:CYS:HA	2.20	0.42
1:e:589:GLN:HA	1:3:496:ASN:ND2	2.33	0.42
1:f:518:ASN:N	1:f:519:PRO:CD	2.82	0.42
1:f:695:ASN:HD21	1:j:710:VAL:HG11	1.84	0.42
1:h:287:PHE:CG	1:h:617:ILE:HG22	2.55	0.42
1:h:429:SER:OG	1:h:431:ASP:OD1	2.23	0.42
1:i:413:TYR:CE2	1:i:643:PRO:CA	3.03	0.42
1:i:569:ASN:HD21	1:i:606:TRP:CB	2.32	0.42
1:i:692:LYS:HB3	1:s:398:PHE:HE1	1.85	0.42
1:k:367:ALA:HB2	1:y:257:TYR:HE2	1.85	0.42
1:l:539:VAL:O	1:l:541:ILE:HG13	2.19	0.42
1:n:287:PHE:CG	1:n:617:ILE:HG22	2.54	0.42
1:n:288:HIS:HD2	1:n:614:GLN:HA	1.84	0.42
1:n:395:LEU:H	1:n:395:LEU:HG	1.48	0.42
1:o:287:PHE:CG	1:o:617:ILE:HG22	2.55	0.42
1:o:350:LEU:CG	1:o:398:PHE:HE2	2.31	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:o:484:ARG:NE	1:o:573:THR:O	2.51	0.42
1:o:514:ASP:OD1	1:o:514:ASP:N	2.53	0.42
1:p:569:ASN:HD21	1:p:606:TRP:CB	2.32	0.42
1:q:374:GLN:HG3	1:q:375:TYR:N	2.34	0.42
1:s:255:HIS:CG	1:s:652:PRO:HB3	2.54	0.42
1:s:287:PHE:CG	1:s:617:ILE:HG22	2.55	0.42
1:s:350:LEU:CD1	1:s:395:LEU:HD22	2.49	0.42
1:s:467:ALA:HA	1:s:470:ILE:HD11	2.00	0.42
1:s:569:ASN:HD21	1:s:606:TRP:CB	2.32	0.42
1:t:255:HIS:CG	1:t:652:PRO:HB3	2.54	0.42
1:t:552:VAL:CG2	1:t:556:LYS:HB2	2.50	0.42
1:t:618:TRP:CZ3	1:t:643:PRO:HG2	2.54	0.42
1:u:397:TYR:HD2	1:u:398:PHE:HD1	1.66	0.42
1:u:413:TYR:CE2	1:u:643:PRO:CA	3.03	0.42
1:v:413:TYR:CE2	1:v:643:PRO:CA	3.03	0.42
1:v:666:PHE:HD2	1:6:369:VAL:HG13	1.84	0.42
1:w:489:SER:OG	1:w:494:ASP:HB2	2.19	0.42
1:w:539:VAL:O	1:w:541:ILE:HG13	2.19	0.42
1:w:552:VAL:CG2	1:w:556:LYS:HB2	2.50	0.42
1:x:484:ARG:NE	1:x:573:THR:O	2.51	0.42
1:x:552:VAL:CG2	1:x:556:LYS:HB2	2.50	0.42
1:y:283:ASP:O	1:y:361:CYS:HA	2.20	0.42
1:y:413:TYR:CE2	1:y:643:PRO:CA	3.03	0.42
1:z:413:TYR:CE2	1:z:643:PRO:CA	3.03	0.42
1:z:429:SER:HA	1:z:567:THR:HB	2.02	0.42
1:1:467:ALA:HA	1:1:470:ILE:HD11	2.00	0.42
1:2:429:SER:HA	1:2:567:THR:HB	2.02	0.42
1:4:539:VAL:O	1:4:541:ILE:HG13	2.19	0.42
1:4:552:VAL:CG2	1:4:556:LYS:HB2	2.50	0.42
1:5:238:ARG:NH2	1:5:685:GLU:OE2	2.52	0.42
1:5:348:TYR:H	1:5:348:TYR:HD2	1.65	0.42
1:5:518:ASN:N	1:5:519:PRO:CD	2.82	0.42
1:7:283:ASP:O	1:7:361:CYS:HA	2.20	0.42
1:B:283:ASP:O	1:B:361:CYS:HA	2.20	0.42
1:D:249:LEU:HD22	1:D:648:ILE:HG23	2.02	0.42
1:D:413:TYR:CE2	1:D:643:PRO:CA	3.03	0.42
1:E:618:TRP:CZ3	1:E:643:PRO:HG2	2.54	0.42
1:F:287:PHE:CG	1:F:617:ILE:HG22	2.54	0.42
1:F:413:TYR:CE2	1:F:643:PRO:CA	3.03	0.42
1:F:552:VAL:CG2	1:F:556:LYS:HB2	2.50	0.42
1:G:255:HIS:CG	1:G:652:PRO:HB3	2.54	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:413:TYR:CE2	1:G:643:PRO:CA	3.03	0.42
1:G:552:VAL:CG2	1:G:556:LYS:HB2	2.50	0.42
1:G:618:TRP:CZ3	1:G:643:PRO:HG2	2.54	0.42
1:I:397:TYR:HD2	1:I:398:PHE:CD1	2.37	0.42
1:J:246:THR:HA	1:J:677:GLN:H	1.83	0.42
1:J:302:ASN:HD21	1:M:302:ASN:ND2	2.09	0.42
1:J:439:ASP:OD1	1:J:439:ASP:N	2.51	0.42
1:J:666:PHE:HD2	1:b:369:VAL:HG13	1.84	0.42
1:J:695:ASN:HD21	1:M:710:VAL:HG11	1.85	0.42
1:K:398:PHE:HE1	1:1:692:LYS:HB3	1.85	0.42
1:L:429:SER:HA	1:L:567:THR:HB	2.02	0.42
1:L:496:ASN:ND2	1:Y:589:GLN:HA	2.33	0.42
1:M:398:PHE:HE1	1:8:692:LYS:HB3	1.85	0.42
1:N:253:ASN:O	1:N:254:ASN:C	2.63	0.42
1:N:429:SER:HA	1:N:567:THR:HB	2.02	0.42
1:N:569:ASN:HD21	1:N:606:TRP:CB	2.32	0.42
1:P:253:ASN:O	1:P:254:ASN:C	2.63	0.42
1:P:397:TYR:HD2	1:P:398:PHE:CD1	2.38	0.42
1:P:539:VAL:O	1:P:541:ILE:HG13	2.19	0.42
1:R:413:TYR:CE2	1:R:643:PRO:CA	3.03	0.42
1:R:552:VAL:CG2	1:R:556:LYS:HB2	2.50	0.42
1:S:429:SER:HA	1:S:567:THR:HB	2.02	0.42
1:S:552:VAL:CG2	1:S:556:LYS:HB2	2.50	0.42
1:T:287:PHE:CG	1:T:617:ILE:HG22	2.54	0.42
1:U:350:LEU:CD1	1:U:395:LEU:HD22	2.49	0.42
1:U:489:SER:OG	1:U:494:ASP:HB2	2.19	0.42
1:U:539:VAL:O	1:U:541:ILE:HG13	2.19	0.42
1:V:249:LEU:HD22	1:V:648:ILE:HG23	2.02	0.42
1:V:666:PHE:HD2	1:h:369:VAL:HG13	1.84	0.42
1:W:439:ASP:N	1:W:439:ASP:OD1	2.51	0.42
1:W:518:ASN:N	1:W:519:PRO:CD	2.82	0.42
1:X:496:ASN:ND2	1:l:589:GLN:HA	2.33	0.42
1:X:514:ASP:OD1	1:X:514:ASP:N	2.53	0.42
1:Y:518:ASN:N	1:Y:519:PRO:CD	2.82	0.42
1:Y:569:ASN:HD21	1:Y:606:TRP:CB	2.32	0.42
1:Z:245:ARG:CD	1:Z:366:PRO:HA	2.47	0.42
1:Z:397:TYR:HD2	1:Z:398:PHE:HD1	1.66	0.42
1:Z:552:VAL:CG2	1:Z:556:LYS:HB2	2.50	0.42
1:Z:692:LYS:HB3	1:h:398:PHE:HE1	1.85	0.42
1:Z:695:ASN:HD21	1:1:710:VAL:HG11	1.84	0.42
1:b:518:ASN:N	1:b:519:PRO:CD	2.82	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:c:283:ASP:O	1:c:361:CYS:HA	2.20	0.42
1:d:287:PHE:CG	1:d:617:ILE:HG22	2.54	0.42
1:d:288:HIS:HD2	1:d:614:GLN:HA	1.84	0.42
1:d:489:SER:OG	1:d:494:ASP:HB2	2.19	0.42
1:d:695:ASN:HD21	1:k:710:VAL:HG11	1.84	0.42
1:e:287:PHE:CG	1:e:617:ILE:HG22	2.55	0.42
1:g:539:VAL:O	1:g:541:ILE:HG13	2.19	0.42
1:i:245:ARG:CD	1:i:366:PRO:HA	2.47	0.42
1:i:397:TYR:HD2	1:i:398:PHE:CD1	2.37	0.42
1:i:489:SER:OG	1:i:494:ASP:HB2	2.19	0.42
1:j:238:ARG:NH2	1:j:685:GLU:OE2	2.52	0.42
1:j:439:ASP:N	1:j:439:ASP:OD1	2.51	0.42
1:k:413:TYR:CE2	1:k:643:PRO:CA	3.03	0.42
1:k:525:SER:N	1:k:562:GLU:HB2	2.33	0.42
1:l:287:PHE:CG	1:l:617:ILE:HG22	2.54	0.42
1:l:350:LEU:CG	1:l:398:PHE:HE2	2.32	0.42
1:m:255:HIS:CG	1:m:652:PRO:HB3	2.54	0.42
1:m:350:LEU:CD1	1:m:395:LEU:HD22	2.49	0.42
1:n:489:SER:OG	1:n:494:ASP:HB2	2.19	0.42
1:o:439:ASP:OD1	1:o:439:ASP:N	2.51	0.42
1:o:692:LYS:HB3	1:w:398:PHE:HE1	1.85	0.42
1:p:350:LEU:CD1	1:p:395:LEU:HD22	2.49	0.42
1:q:255:HIS:CG	1:q:652:PRO:HB3	2.54	0.42
1:q:413:TYR:CE2	1:q:643:PRO:CA	3.03	0.42
1:q:618:TRP:CZ3	1:q:643:PRO:HG2	2.54	0.42
1:r:369:VAL:HG13	1:w:666:PHE:HD2	1.82	0.42
1:r:552:VAL:CG2	1:r:556:LYS:HB2	2.50	0.42
1:s:489:SER:OG	1:s:494:ASP:HB2	2.19	0.42
1:s:589:GLN:HA	1:u:496:ASN:ND2	2.33	0.42
1:t:413:TYR:CE2	1:t:643:PRO:CA	3.03	0.42
1:u:397:TYR:HD2	1:u:398:PHE:CD1	2.37	0.42
1:w:618:TRP:CZ3	1:w:643:PRO:HG2	2.54	0.42
1:x:429:SER:HA	1:x:567:THR:HB	2.02	0.42
1:y:552:VAL:CG2	1:y:556:LYS:HB2	2.50	0.42
1:z:496:ASN:ND2	1:7:589:GLN:HA	2.33	0.42
1:z:518:ASN:N	1:z:519:PRO:CD	2.82	0.42
1:1:253:ASN:O	1:1:254:ASN:C	2.63	0.42
1:1:283:ASP:O	1:1:361:CYS:HA	2.20	0.42
1:1:618:TRP:CZ3	1:1:643:PRO:HG2	2.54	0.42
1:2:439:ASP:N	1:2:439:ASP:OD1	2.51	0.42
1:3:397:TYR:HD2	1:3:398:PHE:CD1	2.38	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:3:429:SER:HA	1:3:567:THR:HB	2.02	0.42
1:3:569:ASN:HD21	1:3:606:TRP:CB	2.32	0.42
1:3:618:TRP:CZ3	1:3:643:PRO:HG2	2.54	0.42
1:4:238:ARG:NH2	1:4:685:GLU:OE2	2.52	0.42
1:4:413:TYR:CE2	1:4:643:PRO:CA	3.03	0.42
1:5:245:ARG:CD	1:5:366:PRO:HA	2.47	0.42
1:6:552:VAL:CG2	1:6:556:LYS:HB2	2.50	0.42
1:7:397:TYR:HD2	1:7:398:PHE:CD1	2.37	0.42
1:7:525:SER:N	1:7:562:GLU:HB2	2.33	0.42
1:7:569:ASN:HD21	1:7:606:TRP:CB	2.32	0.42
1:8:238:ARG:NH2	1:8:685:GLU:OE2	2.52	0.42
1:8:397:TYR:HD2	1:8:398:PHE:HD1	1.66	0.42
1:8:552:VAL:CG2	1:8:556:LYS:HB2	2.50	0.42
1:8:618:TRP:CZ3	1:8:643:PRO:HG2	2.54	0.42
1:A:245:ARG:CD	1:A:366:PRO:HA	2.47	0.42
1:B:692:LYS:HB3	1:4:398:PHE:HE1	1.85	0.42
1:C:249:LEU:HD22	1:C:648:ILE:HG23	2.02	0.42
1:D:367:ALA:HB2	1:F:257:TYR:HE2	1.85	0.42
1:E:395:LEU:H	1:E:395:LEU:HG	1.48	0.42
1:E:398:PHE:HE1	1:X:692:LYS:HB3	1.85	0.42
1:F:618:TRP:CZ3	1:F:643:PRO:HG2	2.54	0.42
1:H:496:ASN:ND2	1:g:589:GLN:HA	2.33	0.42
1:H:552:VAL:CG2	1:H:556:LYS:HB2	2.50	0.42
1:H:618:TRP:CZ3	1:H:643:PRO:HG2	2.54	0.42
1:I:397:TYR:HD2	1:I:398:PHE:HD1	1.66	0.42
1:J:413:TYR:CE2	1:J:643:PRO:CA	3.03	0.42
1:J:552:VAL:CG2	1:J:556:LYS:HB2	2.50	0.42
1:K:413:TYR:CE2	1:K:643:PRO:CA	3.03	0.42
1:M:303:ASN:HB2	1:M:687:GLN:O	2.20	0.42
1:M:348:TYR:H	1:M:348:TYR:HD2	1.65	0.42
1:M:367:ALA:HB2	1:p:257:TYR:HE2	1.85	0.42
1:M:369:VAL:HG13	1:p:666:PHE:HD2	1.84	0.42
1:N:303:ASN:HB2	1:N:687:GLN:O	2.20	0.42
1:O:369:VAL:HG13	1:T:666:PHE:HD2	1.83	0.42
1:O:539:VAL:O	1:O:541:ILE:HG13	2.19	0.42
1:Q:255:HIS:CG	1:Q:652:PRO:HB3	2.54	0.42
1:Q:429:SER:HA	1:Q:567:THR:HB	2.02	0.42
1:R:288:HIS:HD2	1:R:614:GLN:HA	1.84	0.42
1:S:238:ARG:NH2	1:S:685:GLU:OE2	2.52	0.42
1:S:569:ASN:HD21	1:S:606:TRP:HB2	1.83	0.42
1:S:618:TRP:CZ3	1:S:643:PRO:HG2	2.54	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:U:569:ASN:HD21	1:U:606:TRP:CB	2.32	0.42
1:V:257:TYR:HE2	1:h:367:ALA:HB2	1.85	0.42
1:V:397:TYR:HD2	1:V:398:PHE:HD1	1.66	0.42
1:V:569:ASN:HD21	1:V:606:TRP:CB	2.32	0.42
1:W:695:ASN:HD21	1:3:710:VAL:HG11	1.84	0.42
1:X:283:ASP:O	1:X:361:CYS:HA	2.20	0.42
1:X:348:TYR:HD2	1:X:348:TYR:H	1.65	0.42
1:X:350:LEU:CG	1:X:398:PHE:HE2	2.32	0.42
1:X:439:ASP:OD1	1:X:439:ASP:N	2.51	0.42
1:Y:429:SER:HA	1:Y:567:THR:HB	2.02	0.42
1:Y:618:TRP:CD1	1:Y:618:TRP:C	2.98	0.42
1:Z:398:PHE:HE1	1:t:692:LYS:HB3	1.85	0.42
1:Z:618:TRP:CD1	1:Z:618:TRP:C	2.98	0.42
1:a:398:PHE:HE1	1:c:692:LYS:HB3	1.85	0.42
1:a:618:TRP:CZ3	1:a:643:PRO:HG2	2.54	0.42
1:b:287:PHE:CG	1:b:617:ILE:HG22	2.54	0.42
1:b:552:VAL:CG2	1:b:556:LYS:HB2	2.50	0.42
1:c:618:TRP:CZ3	1:c:643:PRO:HG2	2.54	0.42
1:d:552:VAL:CG2	1:d:556:LYS:HB2	2.50	0.42
1:e:467:ALA:HA	1:e:470:ILE:HD11	2.00	0.42
1:e:618:TRP:CZ3	1:e:643:PRO:HG2	2.54	0.42
1:f:413:TYR:CE2	1:f:643:PRO:CA	3.03	0.42
1:g:249:LEU:HD22	1:g:648:ILE:HG23	2.02	0.42
1:g:614:GLN:N	1:g:614:GLN:OE1	2.51	0.42
1:h:303:ASN:HB2	1:h:687:GLN:O	2.20	0.42
1:h:413:TYR:CE2	1:h:643:PRO:CA	3.03	0.42
1:i:253:ASN:O	1:i:254:ASN:C	2.63	0.42
1:i:429:SER:HA	1:i:567:THR:HB	2.02	0.42
1:j:397:TYR:HD2	1:j:398:PHE:CD1	2.38	0.42
1:j:539:VAL:O	1:j:541:ILE:HG13	2.19	0.42
1:k:238:ARG:NH2	1:k:685:GLU:OE2	2.52	0.42
1:k:249:LEU:HD22	1:k:648:ILE:HG23	2.02	0.42
1:n:255:HIS:CG	1:n:652:PRO:HB3	2.54	0.42
1:n:350:LEU:CG	1:n:398:PHE:HE2	2.31	0.42
1:o:348:TYR:HD2	1:o:348:TYR:H	1.65	0.42
1:o:374:GLN:HG3	1:o:375:TYR:N	2.34	0.42
1:p:249:LEU:HD22	1:p:648:ILE:HG23	2.02	0.42
1:p:348:TYR:H	1:p:348:TYR:HD2	1.65	0.42
1:p:374:GLN:HG3	1:p:375:TYR:N	2.34	0.42
1:p:413:TYR:CE2	1:p:643:PRO:CA	3.03	0.42
1:q:552:VAL:CG2	1:q:556:LYS:HB2	2.50	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:r:238:ARG:NH2	1:r:685:GLU:OE2	2.52	0.42
1:r:429:SER:HA	1:r:567:THR:HB	2.02	0.42
1:r:569:ASN:HD21	1:r:606:TRP:CB	2.32	0.42
1:t:238:ARG:NH2	1:t:685:GLU:OE2	2.52	0.42
1:t:283:ASP:O	1:t:361:CYS:HA	2.20	0.42
1:t:489:SER:OG	1:t:494:ASP:HB2	2.19	0.42
1:u:539:VAL:O	1:u:541:ILE:HG13	2.19	0.42
1:v:245:ARG:CD	1:v:366:PRO:HA	2.47	0.42
1:x:255:HIS:CG	1:x:652:PRO:HB3	2.54	0.42
1:x:496:ASN:ND2	1:z:589:GLN:HA	2.33	0.42
1:y:618:TRP:CZ3	1:y:643:PRO:HG2	2.54	0.42
1:z:303:ASN:HB2	1:z:687:GLN:O	2.20	0.42
1:1:429:SER:OG	1:1:431:ASP:OD1	2.24	0.42
1:1:552:VAL:CG2	1:1:556:LYS:HB2	2.50	0.42
1:2:246:THR:HA	1:2:677:GLN:H	1.83	0.42
1:2:413:TYR:CE2	1:2:643:PRO:CA	3.03	0.42
1:3:238:ARG:NH2	1:3:685:GLU:OE2	2.52	0.42
1:4:614:GLN:N	1:4:614:GLN:OE1	2.51	0.42
1:5:374:GLN:HG3	1:5:375:TYR:N	2.34	0.42
1:5:552:VAL:CG2	1:5:556:LYS:HB2	2.50	0.42
1:5:618:TRP:CZ3	1:5:643:PRO:HG2	2.54	0.42
1:7:618:TRP:CD1	1:7:618:TRP:C	2.98	0.42
1:A:249:LEU:HD22	1:A:648:ILE:HG23	2.02	0.42
1:A:552:VAL:CG2	1:A:556:LYS:HB2	2.50	0.42
1:A:666:PHE:HD2	1:W:369:VAL:HG13	1.84	0.42
1:B:287:PHE:CG	1:B:617:ILE:HG22	2.54	0.42
1:B:710:VAL:HG11	1:8:695:ASN:HD21	1.84	0.42
1:C:487:ARG:NE	1:r:583:LEU:HD13	2.35	0.42
1:D:238:ARG:NH2	1:D:685:GLU:OE2	2.52	0.42
1:D:374:GLN:HG3	1:D:375:TYR:N	2.34	0.42
1:D:525:SER:N	1:D:562:GLU:HB2	2.33	0.42
1:D:710:VAL:HG11	1:n:695:ASN:HD21	1.84	0.42
1:E:287:PHE:CG	1:E:617:ILE:HG22	2.55	0.42
1:E:467:ALA:HA	1:E:470:ILE:HD11	2.00	0.42
1:E:618:TRP:CD1	1:E:618:TRP:C	2.98	0.42
1:G:283:ASP:O	1:G:361:CYS:HA	2.20	0.42
1:G:617:ILE:HD13	1:G:617:ILE:HG21	1.85	0.42
1:H:350:LEU:CD1	1:H:395:LEU:HD22	2.49	0.42
1:H:374:GLN:HG3	1:H:375:TYR:N	2.34	0.42
1:I:496:ASN:ND2	1:U:589:GLN:HA	2.33	0.42
1:I:539:VAL:O	1:I:541:ILE:HG13	2.19	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:287:PHE:CG	1:J:617:ILE:HG22	2.55	0.42
1:J:303:ASN:HB2	1:J:687:GLN:O	2.20	0.42
1:K:350:LEU:CD1	1:K:395:LEU:HD22	2.49	0.42
1:L:303:ASN:HB2	1:L:687:GLN:O	2.20	0.42
1:L:589:GLN:HA	1:Q:496:ASN:ND2	2.33	0.42
1:L:618:TRP:CD1	1:L:618:TRP:C	2.98	0.42
1:M:413:TYR:CE2	1:M:643:PRO:CA	3.03	0.42
1:O:525:SER:N	1:O:562:GLU:HB2	2.33	0.42
1:O:552:VAL:CG2	1:O:556:LYS:HB2	2.50	0.42
1:Q:288:HIS:HD2	1:Q:614:GLN:HA	1.84	0.42
1:Q:413:TYR:CE2	1:Q:643:PRO:CA	3.03	0.42
1:Q:484:ARG:NE	1:Q:573:THR:O	2.51	0.42
1:R:618:TRP:CZ3	1:R:643:PRO:HG2	2.54	0.42
1:T:552:VAL:CG2	1:T:556:LYS:HB2	2.50	0.42
1:U:367:ALA:HB2	1:l:257:TYR:HE2	1.85	0.42
1:V:350:LEU:CD1	1:V:395:LEU:HD22	2.49	0.42
1:V:413:TYR:CE2	1:V:643:PRO:CA	3.03	0.42
1:V:518:ASN:N	1:V:519:PRO:CD	2.82	0.42
1:W:287:PHE:CG	1:W:617:ILE:HG22	2.54	0.42
1:X:249:LEU:HD22	1:X:648:ILE:HG23	2.02	0.42
1:X:374:GLN:HG3	1:X:375:TYR:N	2.34	0.42
1:Y:552:VAL:CG2	1:Y:556:LYS:HB2	2.50	0.42
1:Z:302:ASN:HD21	1:1:302:ASN:ND2	2.09	0.42
1:a:429:SER:HA	1:a:567:THR:HB	2.02	0.42
1:a:552:VAL:CG2	1:a:556:LYS:HB2	2.50	0.42
1:a:710:VAL:HG11	1:6:695:ASN:HD21	1.84	0.42
1:b:413:TYR:CE2	1:b:643:PRO:CA	3.03	0.42
1:c:467:ALA:HA	1:c:470:ILE:HD11	2.00	0.42
1:c:710:VAL:HG11	1:5:695:ASN:HD21	1.84	0.42
1:d:348:TYR:H	1:d:348:TYR:HD2	1.65	0.42
1:e:692:LYS:HB3	1:3:398:PHE:HE1	1.85	0.42
1:f:552:VAL:CG2	1:f:556:LYS:HB2	2.50	0.42
1:h:348:TYR:H	1:h:348:TYR:HD2	1.65	0.42
1:h:514:ASP:N	1:h:514:ASP:OD1	2.53	0.42
1:h:589:GLN:HA	1:t:496:ASN:ND2	2.33	0.42
1:i:303:ASN:HB2	1:i:687:GLN:O	2.20	0.42
1:j:288:HIS:HD2	1:j:614:GLN:HA	1.84	0.42
1:j:314:LYS:CB	1:j:410:THR:HG22	2.48	0.42
1:j:374:GLN:HG3	1:j:375:TYR:N	2.34	0.42
1:k:369:VAL:HG13	1:y:666:PHE:HD2	1.84	0.42
1:k:514:ASP:N	1:k:514:ASP:OD1	2.53	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:l:238:ARG:NH2	1:l:685:GLU:OE2	2.52	0.42
1:l:369:VAL:HG13	1:m:666:PHE:HD2	1.83	0.42
1:l:552:VAL:CG2	1:l:556:LYS:HB2	2.50	0.42
1:m:287:PHE:CG	1:m:617:ILE:HG22	2.55	0.42
1:n:552:VAL:CG2	1:n:556:LYS:HB2	2.50	0.42
1:q:288:HIS:HD2	1:q:614:GLN:HA	1.84	0.42
1:r:618:TRP:CZ3	1:r:643:PRO:HG2	2.54	0.42
1:s:257:TYR:HE2	1:y:367:ALA:HB2	1.85	0.42
1:s:618:TRP:CZ3	1:s:643:PRO:HG2	2.54	0.42
1:t:303:ASN:HB2	1:t:687:GLN:O	2.20	0.42
1:t:439:ASP:N	1:t:439:ASP:OD1	2.51	0.42
1:t:695:ASN:HD21	1:z:710:VAL:HG11	1.84	0.42
1:v:552:VAL:CG2	1:v:556:LYS:HB2	2.50	0.42
1:w:287:PHE:CG	1:w:617:ILE:HG22	2.54	0.42
1:w:467:ALA:HA	1:w:470:ILE:HD11	2.00	0.42
1:x:288:HIS:HD2	1:x:614:GLN:HA	1.84	0.42
1:x:348:TYR:H	1:x:348:TYR:HD2	1.65	0.42
1:y:287:PHE:CG	1:y:617:ILE:HG22	2.54	0.42
1:z:514:ASP:OD1	1:z:514:ASP:N	2.53	0.42
1:z:618:TRP:CD1	1:z:618:TRP:C	2.98	0.42
1:1:287:PHE:CG	1:1:617:ILE:HG22	2.55	0.42
1:2:287:PHE:CG	1:2:617:ILE:HG22	2.54	0.42
1:3:552:VAL:CG2	1:3:556:LYS:HB2	2.50	0.42
1:4:255:HIS:CG	1:4:652:PRO:HB3	2.54	0.42
1:4:283:ASP:O	1:4:361:CYS:HA	2.20	0.42
1:4:288:HIS:HD2	1:4:614:GLN:HA	1.84	0.42
1:4:350:LEU:CD1	1:4:395:LEU:HD22	2.49	0.42
1:5:350:LEU:CD1	1:5:395:LEU:HD22	2.49	0.42
1:6:287:PHE:CG	1:6:617:ILE:HG22	2.55	0.42
1:6:397:TYR:HD2	1:6:398:PHE:HD1	1.66	0.42
1:6:439:ASP:N	1:6:439:ASP:OD1	2.51	0.42
1:7:288:HIS:HD2	1:7:614:GLN:HA	1.84	0.42
1:7:429:SER:HA	1:7:567:THR:HB	2.02	0.42
1:7:552:VAL:CG2	1:7:556:LYS:HB2	2.50	0.42
1:A:303:ASN:HB2	1:A:687:GLN:O	2.20	0.42
1:B:552:VAL:CG2	1:B:556:LYS:HB2	2.50	0.42
1:B:666:PHE:HD2	1:a:369:VAL:HG13	1.83	0.42
1:C:413:TYR:CE2	1:C:643:PRO:CA	3.03	0.42
1:D:288:HIS:HD2	1:D:614:GLN:HA	1.84	0.42
1:E:692:LYS:HB3	1:l:398:PHE:HE1	1.85	0.42
1:F:467:ALA:HA	1:F:470:ILE:HD11	2.00	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:303:ASN:HB2	1:G:687:GLN:O	2.20	0.42
1:G:398:PHE:HE1	1:M:692:LYS:HB3	1.85	0.42
1:G:489:SER:OG	1:G:494:ASP:HB2	2.19	0.42
1:G:496:ASN:ND2	1:M:589:GLN:HA	2.33	0.42
1:H:397:TYR:HD2	1:H:398:PHE:CD1	2.38	0.42
1:H:539:VAL:O	1:H:541:ILE:HG13	2.19	0.42
1:I:238:ARG:NH2	1:I:685:GLU:OE2	2.52	0.42
1:K:255:HIS:CG	1:K:652:PRO:HB3	2.54	0.42
1:K:288:HIS:HD2	1:K:614:GLN:HA	1.84	0.42
1:K:614:GLN:OE1	1:K:614:GLN:N	2.51	0.42
1:K:618:TRP:CD1	1:K:618:TRP:C	2.98	0.42
1:L:249:LEU:HD22	1:L:648:ILE:HG23	2.02	0.42
1:L:283:ASP:O	1:L:361:CYS:HA	2.20	0.42
1:L:514:ASP:N	1:L:514:ASP:OD1	2.53	0.42
1:L:552:VAL:CG2	1:L:556:LYS:HB2	2.50	0.42
1:M:397:TYR:HD2	1:M:398:PHE:CD1	2.38	0.42
1:M:514:ASP:N	1:M:514:ASP:OD1	2.53	0.42
1:N:397:TYR:HD2	1:N:398:PHE:CD1	2.38	0.42
1:O:397:TYR:HD2	1:O:398:PHE:CD1	2.38	0.42
1:O:398:PHE:HE1	1:w:692:LYS:HB3	1.85	0.42
1:O:589:GLN:HA	1:o:496:ASN:ND2	2.33	0.42
1:P:374:GLN:HG3	1:P:375:TYR:N	2.34	0.42
1:Q:692:LYS:HB3	1:Y:398:PHE:HE1	1.85	0.42
1:R:398:PHE:HE1	1:k:692:LYS:HB3	1.85	0.42
1:T:249:LEU:HD22	1:T:648:ILE:HG23	2.02	0.42
1:T:283:ASP:O	1:T:361:CYS:HA	2.20	0.42
1:U:618:TRP:CZ3	1:U:643:PRO:HG2	2.54	0.42
1:V:303:ASN:HB2	1:V:687:GLN:O	2.20	0.42
1:V:374:GLN:HG3	1:V:375:TYR:N	2.34	0.42
1:W:539:VAL:O	1:W:541:ILE:HG13	2.19	0.42
1:Y:397:TYR:HD2	1:Y:398:PHE:CD1	2.38	0.42
1:Z:395:LEU:H	1:Z:395:LEU:HG	1.48	0.42
1:Z:413:TYR:CE2	1:Z:643:PRO:CA	3.03	0.42
1:a:238:ARG:NH2	1:a:685:GLU:OE2	2.52	0.42
1:a:287:PHE:CG	1:a:617:ILE:HG22	2.54	0.42
1:a:350:LEU:CG	1:a:398:PHE:HE2	2.31	0.42
1:b:692:LYS:HB3	1:n:398:PHE:HE1	1.85	0.42
1:c:413:TYR:CE2	1:c:643:PRO:CA	3.03	0.42
1:d:350:LEU:CG	1:d:398:PHE:HE2	2.31	0.42
1:d:365:PHE:HA	1:d:366:PRO:HD3	1.91	0.42
1:d:398:PHE:HE1	1:f:692:LYS:HB3	1.85	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:d:640:LYS:HE3	1:d:640:LYS:HB3	1.89	0.42
1:e:413:TYR:CE2	1:e:643:PRO:CA	3.03	0.42
1:f:287:PHE:CG	1:f:617:ILE:HG22	2.54	0.42
1:h:255:HIS:CG	1:h:652:PRO:HB3	2.54	0.42
1:h:349:GLN:NE2	1:h:349:GLN:CA	2.73	0.42
1:h:489:SER:OG	1:h:494:ASP:HB2	2.19	0.42
1:h:692:LYS:HB3	1:t:398:PHE:HE1	1.85	0.42
1:k:283:ASP:O	1:k:361:CYS:HA	2.20	0.42
1:k:374:GLN:HG3	1:k:375:TYR:N	2.34	0.42
1:l:525:SER:N	1:l:562:GLU:HB2	2.33	0.42
1:m:552:VAL:CG2	1:m:556:LYS:HB2	2.50	0.42
1:n:249:LEU:HD22	1:n:648:ILE:HG23	2.02	0.42
1:o:249:LEU:HD22	1:o:648:ILE:HG23	2.02	0.42
1:o:283:ASP:O	1:o:361:CYS:HA	2.20	0.42
1:o:350:LEU:CD1	1:o:395:LEU:HD22	2.49	0.42
1:o:710:VAL:HG11	1:r:695:ASN:HD21	1.83	0.42
1:p:397:TYR:HD2	1:p:398:PHE:HD1	1.66	0.42
1:q:249:LEU:HD22	1:q:648:ILE:HG23	2.02	0.42
1:t:518:ASN:N	1:t:519:PRO:CD	2.82	0.42
1:u:710:VAL:HG11	1:x:695:ASN:HD21	1.84	0.42
1:v:249:LEU:HD22	1:v:648:ILE:HG23	2.02	0.42
1:v:303:ASN:HB2	1:v:687:GLN:O	2.20	0.42
1:v:710:VAL:HG11	1:7:695:ASN:HD21	1.84	0.42
1:w:283:ASP:O	1:w:361:CYS:HA	2.20	0.42
1:w:429:SER:HA	1:w:567:THR:HB	2.02	0.42
1:x:303:ASN:HB2	1:x:687:GLN:O	2.20	0.42
1:x:413:TYR:CE2	1:x:643:PRO:CA	3.03	0.42
1:x:692:LYS:HB3	1:7:398:PHE:HE1	1.85	0.42
1:y:467:ALA:HA	1:y:470:ILE:HD11	2.00	0.42
1:z:249:LEU:HD22	1:z:648:ILE:HG23	2.02	0.42
1:z:374:GLN:HG3	1:z:375:TYR:N	2.34	0.42
1:z:552:VAL:CG2	1:z:556:LYS:HB2	2.50	0.42
1:2:303:ASN:HB2	1:2:687:GLN:O	2.20	0.42
1:2:552:VAL:CG2	1:2:556:LYS:HB2	2.50	0.42
1:4:666:PHE:HD2	1:8:369:VAL:HG13	1.83	0.42
1:5:539:VAL:O	1:5:541:ILE:HG13	2.19	0.42
1:7:397:TYR:HD2	1:7:398:PHE:HD1	1.66	0.42
1:8:245:ARG:CD	1:8:366:PRO:HA	2.47	0.42
1:8:395:LEU:H	1:8:395:LEU:HG	1.48	0.42
1:8:413:TYR:CE2	1:8:643:PRO:CA	3.03	0.42
1:8:618:TRP:CD1	1:8:618:TRP:C	2.98	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:257:TYR:HE2	1:W:367:ALA:HB2	1.84	0.42
1:B:398:PHE:HE1	1:6:692:LYS:HB3	1.85	0.42
1:C:551:ASN:ND2	1:r:463:SER:HG	2.18	0.42
1:C:589:GLN:HA	1:5:496:ASN:ND2	2.33	0.42
1:D:514:ASP:OD1	1:D:514:ASP:N	2.53	0.42
1:D:692:LYS:HD3	1:q:349:GLN:HG3	2.02	0.42
1:E:413:TYR:CE2	1:E:643:PRO:CA	3.03	0.42
1:E:429:SER:HA	1:E:567:THR:HB	2.02	0.42
1:F:288:HIS:HD2	1:F:614:GLN:HA	1.84	0.42
1:F:367:ALA:HB2	1:U:257:TYR:HE2	1.85	0.42
1:G:692:LYS:HB3	1:8:398:PHE:HE1	1.85	0.42
1:H:367:ALA:HB2	1:3:257:TYR:HE2	1.85	0.42
1:H:695:ASN:HD21	1:e:710:VAL:HG11	1.84	0.42
1:I:618:TRP:CD1	1:I:618:TRP:C	2.98	0.42
1:J:618:TRP:CD1	1:J:618:TRP:C	2.98	0.42
1:K:283:ASP:O	1:K:361:CYS:HA	2.20	0.42
1:L:238:ARG:NH2	1:L:685:GLU:OE2	2.52	0.42
1:L:374:GLN:HG3	1:L:375:TYR:N	2.34	0.42
1:M:245:ARG:CD	1:M:366:PRO:HA	2.47	0.42
1:M:255:HIS:CG	1:M:652:PRO:HB3	2.54	0.42
1:M:618:TRP:CD1	1:M:618:TRP:C	2.98	0.42
1:N:514:ASP:OD1	1:N:514:ASP:N	2.53	0.42
1:O:257:TYR:HE2	1:s:367:ALA:HB2	1.85	0.42
1:P:288:HIS:HD2	1:P:614:GLN:HA	1.84	0.42
1:P:413:TYR:CE2	1:P:643:PRO:CA	3.03	0.42
1:Q:283:ASP:O	1:Q:361:CYS:HA	2.20	0.42
1:Q:303:ASN:HB2	1:Q:687:GLN:O	2.20	0.42
1:Q:348:TYR:H	1:Q:348:TYR:HD2	1.65	0.42
1:Q:371:MET:C	1:Q:372:VAL:O	2.62	0.42
1:Q:589:GLN:HA	1:Y:496:ASN:ND2	2.33	0.42
1:R:249:LEU:HD22	1:R:648:ILE:HG23	2.02	0.42
1:R:367:ALA:HB2	1:X:257:TYR:HE2	1.85	0.42
1:R:397:TYR:HD2	1:R:398:PHE:CD1	2.38	0.42
1:R:429:SER:HA	1:R:567:THR:HB	2.02	0.42
1:S:249:LEU:HD22	1:S:648:ILE:HG23	2.02	0.42
1:S:397:TYR:HD2	1:S:398:PHE:CD1	2.38	0.42
1:T:618:TRP:CZ3	1:T:643:PRO:HG2	2.54	0.42
1:W:397:TYR:HD2	1:W:398:PHE:HD1	1.66	0.42
1:X:253:ASN:O	1:X:254:ASN:C	2.63	0.42
1:X:350:LEU:CD1	1:X:395:LEU:HD22	2.49	0.42
1:X:552:VAL:CG2	1:X:556:LYS:HB2	2.50	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Y:288:HIS:HD2	1:Y:614:GLN:HA	1.84	0.42
1:Y:303:ASN:HB2	1:Y:687:GLN:O	2.20	0.42
1:Y:397:TYR:HD2	1:Y:398:PHE:HD1	1.66	0.42
1:Z:429:SER:HA	1:Z:567:THR:HB	2.02	0.42
1:b:489:SER:OG	1:b:494:ASP:HB2	2.19	0.42
1:c:514:ASP:N	1:c:514:ASP:OD1	2.53	0.42
1:c:539:VAL:O	1:c:541:ILE:HG13	2.19	0.42
1:c:695:ASN:HD21	1:5:710:VAL:HG11	1.84	0.42
1:d:249:LEU:HD22	1:d:648:ILE:HG23	2.02	0.42
1:d:395:LEU:H	1:d:395:LEU:HG	1.48	0.42
1:e:350:LEU:CD1	1:e:395:LEU:HD22	2.49	0.42
1:e:514:ASP:OD1	1:e:514:ASP:N	2.53	0.42
1:g:413:TYR:CE2	1:g:643:PRO:CA	3.03	0.42
1:g:618:TRP:CZ3	1:g:643:PRO:HG2	2.54	0.42
1:o:253:ASN:O	1:o:254:ASN:C	2.63	0.42
1:o:552:VAL:CG2	1:o:556:LYS:HB2	2.50	0.42
1:p:303:ASN:HB2	1:p:687:GLN:O	2.20	0.42
1:p:518:ASN:N	1:p:519:PRO:CD	2.82	0.42
1:p:552:VAL:CG2	1:p:556:LYS:HB2	2.50	0.42
1:q:397:TYR:HD2	1:q:398:PHE:CD1	2.37	0.42
1:q:429:SER:HA	1:q:567:THR:HB	2.02	0.42
1:r:433:LEU:HD12	1:r:433:LEU:HA	1.84	0.42
1:r:569:ASN:HD21	1:r:606:TRP:HB2	1.83	0.42
1:s:303:ASN:HB2	1:s:687:GLN:O	2.20	0.42
1:s:374:GLN:HG3	1:s:375:TYR:N	2.34	0.42
1:t:618:TRP:CD1	1:t:618:TRP:C	2.98	0.42
1:u:238:ARG:NH2	1:u:685:GLU:OE2	2.52	0.42
1:u:514:ASP:OD1	1:u:514:ASP:N	2.53	0.42
1:v:367:ALA:HB2	1:z:257:TYR:HE2	1.85	0.42
1:v:369:VAL:HG13	1:z:666:PHE:HD2	1.83	0.42
1:w:618:TRP:CD1	1:w:618:TRP:C	2.98	0.42
1:x:283:ASP:O	1:x:361:CYS:HA	2.20	0.42
1:x:374:GLN:HG3	1:x:375:TYR:N	2.34	0.42
1:x:518:ASN:N	1:x:519:PRO:CD	2.82	0.42
1:x:589:GLN:HA	1:7:496:ASN:ND2	2.33	0.42
1:y:288:HIS:HD2	1:y:614:GLN:HA	1.84	0.42
1:2:374:GLN:HG3	1:2:375:TYR:N	2.34	0.42
1:2:618:TRP:CD1	1:2:618:TRP:C	2.98	0.42
1:3:287:PHE:CG	1:3:617:ILE:HG22	2.54	0.42
1:3:350:LEU:CG	1:3:398:PHE:HE2	2.31	0.42
1:4:618:TRP:CZ3	1:4:643:PRO:HG2	2.54	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:4:618:TRP:CD1	1:4:618:TRP:C	2.98	0.42
1:5:397:TYR:HD2	1:5:398:PHE:CD1	2.38	0.42
1:6:245:ARG:CD	1:6:366:PRO:HA	2.47	0.42
1:7:303:ASN:HB2	1:7:687:GLN:O	2.20	0.42
1:A:369:VAL:HG13	1:L:666:PHE:HD2	1.84	0.41
1:B:618:TRP:CD1	1:B:618:TRP:C	2.98	0.41
1:C:397:TYR:HD2	1:C:398:PHE:HD1	1.66	0.41
1:C:618:TRP:CZ3	1:C:643:PRO:HG2	2.54	0.41
1:D:283:ASP:O	1:D:361:CYS:HA	2.20	0.41
1:E:249:LEU:HD22	1:E:648:ILE:HG23	2.02	0.41
1:E:283:ASP:O	1:E:361:CYS:HA	2.20	0.41
1:E:518:ASN:N	1:E:519:PRO:CD	2.82	0.41
1:F:303:ASN:HB2	1:F:687:GLN:O	2.20	0.41
1:F:695:ASN:HD21	1:N:710:VAL:HG11	1.84	0.41
1:G:439:ASP:OD1	1:G:439:ASP:N	2.51	0.41
1:G:618:TRP:CD1	1:G:618:TRP:C	2.98	0.41
1:H:283:ASP:O	1:H:361:CYS:HA	2.20	0.41
1:H:309:LYS:HA	1:H:309:LYS:HD2	1.92	0.41
1:H:552:VAL:HG13	1:g:462:PHE:HB2	2.00	0.41
1:I:710:VAL:HG11	1:Q:695:ASN:HD21	1.84	0.41
1:J:374:GLN:HG3	1:J:375:TYR:N	2.34	0.41
1:J:489:SER:OG	1:J:494:ASP:HB2	2.19	0.41
1:K:618:TRP:CZ3	1:K:643:PRO:HG2	2.54	0.41
1:K:666:PHE:HD2	1:Z:369:VAL:HG13	1.83	0.41
1:M:374:GLN:HG3	1:M:375:TYR:N	2.34	0.41
1:M:489:SER:OG	1:M:494:ASP:HB2	2.19	0.41
1:N:367:ALA:HB2	1:b:257:TYR:HE2	1.85	0.41
1:N:618:TRP:CD1	1:N:618:TRP:C	2.98	0.41
1:O:238:ARG:NH2	1:O:685:GLU:OE2	2.52	0.41
1:O:695:ASN:HD21	1:q:710:VAL:HG11	1.85	0.41
1:P:314:LYS:CB	1:P:410:THR:HG22	2.48	0.41
1:P:429:SER:HA	1:P:567:THR:HB	2.02	0.41
1:P:552:VAL:HG13	1:p:462:PHE:HB2	2.00	0.41
1:Q:374:GLN:HG3	1:Q:375:TYR:N	2.34	0.41
1:R:253:ASN:O	1:R:254:ASN:C	2.63	0.41
1:R:257:TYR:HE2	1:d:367:ALA:HB2	1.85	0.41
1:R:514:ASP:OD1	1:R:514:ASP:N	2.52	0.41
1:R:539:VAL:O	1:R:541:ILE:HG13	2.19	0.41
1:S:253:ASN:O	1:S:254:ASN:C	2.63	0.41
1:T:552:VAL:HG13	1:q:462:PHE:HB2	2.01	0.41
1:U:303:ASN:HB2	1:U:687:GLN:O	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:V:462:PHE:HB2	1:j:552:VAL:HG13	2.00	0.41
1:V:618:TRP:CD1	1:V:618:TRP:C	2.98	0.41
1:W:245:ARG:CD	1:W:366:PRO:HA	2.47	0.41
1:W:413:TYR:CE2	1:W:643:PRO:CA	3.03	0.41
1:W:514:ASP:OD1	1:W:514:ASP:N	2.53	0.41
1:X:367:ALA:HB2	1:g:257:TYR:HE2	1.85	0.41
1:Y:427:SER:HB3	1:Y:734:ASN:HA	2.02	0.41
1:Z:249:LEU:HD22	1:Z:648:ILE:HG23	2.02	0.41
1:Z:287:PHE:CG	1:Z:617:ILE:HG22	2.54	0.41
1:a:257:TYR:HE2	1:5:367:ALA:HB2	1.85	0.41
1:a:462:PHE:HB2	1:v:552:VAL:HG13	2.00	0.41
1:c:429:SER:HA	1:c:567:THR:HB	2.02	0.41
1:c:618:TRP:CD1	1:c:618:TRP:C	2.98	0.41
1:d:413:TYR:CE2	1:d:643:PRO:CA	3.03	0.41
1:d:429:SER:HA	1:d:567:THR:HB	2.02	0.41
1:f:489:SER:OG	1:f:494:ASP:HB2	2.19	0.41
1:g:253:ASN:O	1:g:254:ASN:C	2.63	0.41
1:g:397:TYR:HD2	1:g:398:PHE:HD1	1.66	0.41
1:h:374:GLN:HG3	1:h:375:TYR:N	2.34	0.41
1:h:618:TRP:CD1	1:h:618:TRP:C	2.98	0.41
1:i:287:PHE:CG	1:i:617:ILE:HG22	2.54	0.41
1:i:349:GLN:NE2	1:i:349:GLN:CA	2.73	0.41
1:i:618:TRP:CD1	1:i:618:TRP:C	2.98	0.41
1:i:710:VAL:HG11	1:y:695:ASN:HD21	1.84	0.41
1:j:413:TYR:CE2	1:j:643:PRO:CA	3.03	0.41
1:j:525:SER:N	1:j:562:GLU:HB2	2.33	0.41
1:k:288:HIS:HD2	1:k:614:GLN:HA	1.84	0.41
1:l:303:ASN:HB2	1:l:687:GLN:O	2.20	0.41
1:l:397:TYR:HD2	1:l:398:PHE:CD1	2.38	0.41
1:l:526:HIS:CD2	1:l:531:GLU:H	2.39	0.41
1:m:249:LEU:HD22	1:m:648:ILE:HG23	2.02	0.41
1:m:618:TRP:CZ3	1:m:643:PRO:HG2	2.54	0.41
1:n:397:TYR:HD2	1:n:398:PHE:CD1	2.38	0.41
1:n:413:TYR:CE2	1:n:643:PRO:CA	3.03	0.41
1:n:429:SER:HA	1:n:567:THR:HB	2.02	0.41
1:o:433:LEU:HD12	1:o:433:LEU:HA	1.84	0.41
1:p:427:SER:HB3	1:p:734:ASN:HA	2.02	0.41
1:p:618:TRP:CD1	1:p:618:TRP:C	2.98	0.41
1:r:253:ASN:O	1:r:254:ASN:C	2.63	0.41
1:r:288:HIS:HD2	1:r:614:GLN:HA	1.84	0.41
1:r:397:TYR:HD2	1:r:398:PHE:CD1	2.38	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:s:397:TYR:HD2	1:s:398:PHE:CD1	2.38	0.41
1:u:429:SER:HA	1:u:567:THR:HB	2.02	0.41
1:u:618:TRP:CD1	1:u:618:TRP:C	2.98	0.41
1:w:249:LEU:HD22	1:w:648:ILE:HG23	2.02	0.41
1:w:518:ASN:N	1:w:519:PRO:CD	2.82	0.41
1:x:349:GLN:HE21	1:x:349:GLN:CA	2.04	0.41
1:x:371:MET:C	1:x:372:VAL:O	2.62	0.41
1:y:303:ASN:HB2	1:y:687:GLN:O	2.20	0.41
1:z:238:ARG:NH2	1:z:685:GLU:OE2	2.52	0.41
1:z:283:ASP:O	1:z:361:CYS:HA	2.20	0.41
1:z:288:HIS:HD2	1:z:614:GLN:HA	1.84	0.41
1:1:288:HIS:HD2	1:1:614:GLN:HA	1.84	0.41
1:1:397:TYR:HD2	1:1:398:PHE:CD1	2.38	0.41
1:1:413:TYR:CE2	1:1:643:PRO:CA	3.03	0.41
1:1:618:TRP:CD1	1:1:618:TRP:C	2.98	0.41
1:1:666:PHE:HD2	1:3:369:VAL:HG13	1.83	0.41
1:3:539:VAL:O	1:3:541:ILE:HG13	2.19	0.41
1:4:692:LYS:HB3	1:6:398:PHE:HE1	1.85	0.41
1:6:413:TYR:CE2	1:6:643:PRO:CA	3.03	0.41
1:6:526:HIS:CD2	1:6:531:GLU:H	2.39	0.41
1:6:539:VAL:O	1:6:541:ILE:HG13	2.19	0.41
1:7:427:SER:HB3	1:7:734:ASN:HA	2.02	0.41
1:8:374:GLN:HG3	1:8:375:TYR:N	2.34	0.41
1:A:283:ASP:O	1:A:361:CYS:HA	2.20	0.41
1:A:618:TRP:CD1	1:A:618:TRP:C	2.98	0.41
1:B:257:TYR:HE2	1:a:367:ALA:HB2	1.85	0.41
1:B:303:ASN:HB2	1:B:687:GLN:O	2.20	0.41
1:B:413:TYR:CE2	1:B:643:PRO:CA	3.03	0.41
1:B:463:SER:HG	1:4:551:ASN:ND2	2.17	0.41
1:C:257:TYR:HE2	1:o:367:ALA:HB2	1.85	0.41
1:C:302:ASN:ND2	1:p:302:ASN:HD21	2.10	0.41
1:D:257:TYR:HE2	1:m:367:ALA:HB2	1.85	0.41
1:D:583:LEU:HD13	1:q:487:ARG:NE	2.36	0.41
1:E:710:VAL:HG11	1:U:695:ASN:HD21	1.85	0.41
1:F:526:HIS:CD2	1:F:531:GLU:H	2.39	0.41
1:G:367:ALA:HB2	1:Q:257:TYR:HE2	1.85	0.41
1:G:397:TYR:HD2	1:G:398:PHE:CD1	2.38	0.41
1:G:514:ASP:OD1	1:G:514:ASP:N	2.53	0.41
1:G:526:HIS:CD2	1:G:531:GLU:H	2.39	0.41
1:H:710:VAL:HG11	1:e:695:ASN:HD21	1.84	0.41
1:J:710:VAL:HG11	1:M:695:ASN:HD21	1.84	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:288:HIS:HD2	1:L:614:GLN:HA	1.84	0.41
1:L:427:SER:HB3	1:L:734:ASN:HA	2.03	0.41
1:M:439:ASP:N	1:M:439:ASP:OD1	2.51	0.41
1:N:287:PHE:CG	1:N:617:ILE:HG22	2.54	0.41
1:N:349:GLN:NE2	1:N:349:GLN:CA	2.73	0.41
1:O:303:ASN:HB2	1:O:687:GLN:O	2.20	0.41
1:Q:518:ASN:N	1:Q:519:PRO:CD	2.82	0.41
1:R:287:PHE:CG	1:R:617:ILE:HG22	2.54	0.41
1:R:692:LYS:HB3	1:m:398:PHE:HE1	1.85	0.41
1:S:285:ASN:O	1:S:617:ILE:HG23	2.21	0.41
1:S:288:HIS:HD2	1:S:614:GLN:HA	1.84	0.41
1:T:413:TYR:CE2	1:T:643:PRO:CA	3.03	0.41
1:T:514:ASP:OD1	1:T:514:ASP:N	2.53	0.41
1:T:618:TRP:CD1	1:T:618:TRP:C	2.98	0.41
1:U:374:GLN:HG3	1:U:375:TYR:N	2.34	0.41
1:U:526:HIS:CD2	1:U:531:GLU:H	2.39	0.41
1:V:427:SER:HB3	1:V:734:ASN:HA	2.03	0.41
1:V:552:VAL:CG2	1:V:556:LYS:HB2	2.50	0.41
1:W:526:HIS:CD2	1:W:531:GLU:H	2.38	0.41
1:W:692:LYS:HB3	1:1:398:PHE:HE1	1.85	0.41
1:Z:374:GLN:HG3	1:Z:375:TYR:N	2.34	0.41
1:Z:489:SER:OG	1:Z:494:ASP:HB2	2.19	0.41
1:b:249:LEU:HD22	1:b:648:ILE:HG23	2.02	0.41
1:b:539:VAL:O	1:b:541:ILE:HG13	2.19	0.41
1:c:288:HIS:HD2	1:c:614:GLN:HA	1.84	0.41
1:c:350:LEU:CD1	1:c:395:LEU:HD22	2.49	0.41
1:d:397:TYR:HD2	1:d:398:PHE:CD1	2.38	0.41
1:f:249:LEU:HD22	1:f:648:ILE:HG23	2.02	0.41
1:f:257:TYR:HE2	1:i:367:ALA:HB2	1.85	0.41
1:f:367:ALA:HB2	1:2:257:TYR:HE2	1.85	0.41
1:g:285:ASN:O	1:g:617:ILE:HG23	2.21	0.41
1:g:552:VAL:CG2	1:g:556:LYS:HB2	2.50	0.41
1:h:285:ASN:O	1:h:617:ILE:HG23	2.21	0.41
1:h:439:ASP:N	1:h:439:ASP:OD1	2.51	0.41
1:i:397:TYR:HD2	1:i:398:PHE:HD1	1.66	0.41
1:i:514:ASP:OD1	1:i:514:ASP:N	2.53	0.41
1:i:518:ASN:N	1:i:519:PRO:CD	2.82	0.41
1:j:429:SER:HA	1:j:567:THR:HB	2.02	0.41
1:j:583:LEU:HD13	1:2:487:ARG:NE	2.36	0.41
1:l:427:SER:HB3	1:l:734:ASN:HA	2.03	0.41
1:m:283:ASP:O	1:m:361:CYS:HA	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:m:429:SER:HA	1:m:567:THR:HB	2.02	0.41
1:m:514:ASP:OD1	1:m:514:ASP:N	2.52	0.41
1:m:618:TRP:CD1	1:m:618:TRP:C	2.98	0.41
1:n:348:TYR:H	1:n:348:TYR:HD2	1.65	0.41
1:n:365:PHE:HA	1:n:366:PRO:HD3	1.91	0.41
1:o:429:SER:HA	1:o:567:THR:HB	2.02	0.41
1:p:283:ASP:O	1:p:361:CYS:HA	2.20	0.41
1:q:253:ASN:O	1:q:254:ASN:C	2.63	0.41
1:q:287:PHE:CG	1:q:617:ILE:HG22	2.54	0.41
1:q:539:VAL:O	1:q:541:ILE:HG13	2.19	0.41
1:r:283:ASP:O	1:r:361:CYS:HA	2.20	0.41
1:r:539:VAL:O	1:r:541:ILE:HG13	2.19	0.41
1:s:526:HIS:CD2	1:s:531:GLU:H	2.39	0.41
1:s:695:ASN:HD21	1:w:710:VAL:HG11	1.84	0.41
1:t:285:ASN:O	1:t:617:ILE:HG23	2.21	0.41
1:t:367:ALA:HB2	1:x:257:TYR:HE2	1.85	0.41
1:t:397:TYR:HD2	1:t:398:PHE:CD1	2.38	0.41
1:t:526:HIS:CD2	1:t:531:GLU:H	2.39	0.41
1:u:257:TYR:HE2	1:w:367:ALA:HB2	1.85	0.41
1:u:283:ASP:O	1:u:361:CYS:HA	2.20	0.41
1:u:489:SER:OG	1:u:494:ASP:HB2	2.19	0.41
1:w:309:LYS:HA	1:w:309:LYS:HD2	1.92	0.41
1:w:413:TYR:CE2	1:w:643:PRO:CA	3.03	0.41
1:y:526:HIS:CD2	1:y:531:GLU:H	2.39	0.41
1:z:427:SER:HB3	1:z:734:ASN:HA	2.03	0.41
1:5:283:ASP:O	1:5:361:CYS:HA	2.20	0.41
1:6:514:ASP:OD1	1:6:514:ASP:N	2.53	0.41
1:8:249:LEU:HD22	1:8:648:ILE:HG23	2.02	0.41
1:8:429:SER:HA	1:8:567:THR:HB	2.02	0.41
1:8:489:SER:OG	1:8:494:ASP:HB2	2.19	0.41
1:B:288:HIS:HD2	1:B:614:GLN:HA	1.84	0.41
1:B:365:PHE:HA	1:B:366:PRO:HD3	1.91	0.41
1:B:397:TYR:HD2	1:B:398:PHE:CD1	2.38	0.41
1:C:253:ASN:O	1:C:254:ASN:C	2.63	0.41
1:C:303:ASN:HB2	1:C:687:GLN:O	2.20	0.41
1:C:439:ASP:OD1	1:C:439:ASP:N	2.51	0.41
1:C:552:VAL:CG2	1:C:556:LYS:HB2	2.50	0.41
1:D:526:HIS:CD2	1:D:531:GLU:H	2.39	0.41
1:F:496:ASN:ND2	1:n:589:GLN:HA	2.33	0.41
1:G:285:ASN:O	1:G:617:ILE:HG23	2.21	0.41
1:H:285:ASN:O	1:H:617:ILE:HG23	2.21	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:429:SER:HA	1:H:567:THR:HB	2.01	0.41
1:I:429:SER:HA	1:I:567:THR:HB	2.02	0.41
1:I:489:SER:OG	1:I:494:ASP:HB2	2.19	0.41
1:J:257:TYR:HE2	1:b:367:ALA:HB2	1.85	0.41
1:K:395:LEU:H	1:K:395:LEU:HG	1.48	0.41
1:K:692:LYS:HB3	1:W:398:PHE:HE1	1.85	0.41
1:M:285:ASN:O	1:M:617:ILE:HG23	2.21	0.41
1:M:288:HIS:HD2	1:M:614:GLN:HA	1.84	0.41
1:M:349:GLN:NE2	1:M:349:GLN:CA	2.73	0.41
1:M:518:ASN:N	1:M:519:PRO:CD	2.82	0.41
1:M:598:GLN:HG3	1:M:599:GLY:O	2.21	0.41
1:N:249:LEU:HD22	1:N:648:ILE:HG23	2.02	0.41
1:N:397:TYR:HD2	1:N:398:PHE:HD1	1.66	0.41
1:N:552:VAL:CG2	1:N:556:LYS:HB2	2.50	0.41
1:O:526:HIS:CD2	1:O:531:GLU:H	2.39	0.41
1:O:550:THR:HG23	1:O:551:ASN:N	2.36	0.41
1:P:245:ARG:CD	1:P:366:PRO:HA	2.47	0.41
1:P:525:SER:N	1:P:562:GLU:HB2	2.33	0.41
1:S:283:ASP:O	1:S:361:CYS:HA	2.20	0.41
1:S:349:GLN:NE2	1:S:349:GLN:CA	2.73	0.41
1:S:350:LEU:CD1	1:S:395:LEU:HD22	2.49	0.41
1:S:710:VAL:HG11	1:X:695:ASN:HD21	1.85	0.41
1:T:367:ALA:HB2	1:k:257:TYR:HE2	1.86	0.41
1:U:249:LEU:HD22	1:U:648:ILE:HG23	2.02	0.41
1:U:285:ASN:O	1:U:617:ILE:HG23	2.21	0.41
1:U:397:TYR:HD2	1:U:398:PHE:CD1	2.38	0.41
1:V:283:ASP:O	1:V:361:CYS:HA	2.20	0.41
1:V:487:ARG:NE	1:2:583:LEU:HD13	2.35	0.41
1:V:526:HIS:CD2	1:V:531:GLU:H	2.39	0.41
1:V:598:GLN:HG3	1:V:599:GLY:O	2.21	0.41
1:W:429:SER:HA	1:W:567:THR:HB	2.02	0.41
1:X:303:ASN:HB2	1:X:687:GLN:O	2.20	0.41
1:X:429:SER:HA	1:X:567:THR:HB	2.02	0.41
1:X:618:TRP:CZ3	1:X:643:PRO:HG2	2.54	0.41
1:Z:427:SER:HB3	1:Z:734:ASN:HA	2.03	0.41
1:a:539:VAL:O	1:a:541:ILE:HG13	2.19	0.41
1:e:288:HIS:HD2	1:e:614:GLN:HA	1.84	0.41
1:e:539:VAL:O	1:e:541:ILE:HG13	2.19	0.41
1:e:618:TRP:CD1	1:e:618:TRP:C	2.98	0.41
1:f:539:VAL:O	1:f:541:ILE:HG13	2.19	0.41
1:g:397:TYR:HD2	1:g:398:PHE:CD1	2.37	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:h:245:ARG:CD	1:h:366:PRO:HA	2.47	0.41
1:h:429:SER:HA	1:h:567:THR:HB	2.02	0.41
1:i:249:LEU:HD22	1:i:648:ILE:HG23	2.02	0.41
1:i:552:VAL:CG2	1:i:556:LYS:HB2	2.50	0.41
1:k:526:HIS:CD2	1:k:531:GLU:H	2.39	0.41
1:k:598:GLN:HG3	1:k:599:GLY:O	2.21	0.41
1:l:550:THR:HG23	1:l:551:ASN:N	2.36	0.41
1:m:253:ASN:O	1:m:254:ASN:C	2.63	0.41
1:m:413:TYR:CE2	1:m:643:PRO:CA	3.03	0.41
1:n:303:ASN:HB2	1:n:687:GLN:O	2.20	0.41
1:o:618:TRP:CZ3	1:o:643:PRO:HG2	2.54	0.41
1:p:526:HIS:CD2	1:p:531:GLU:H	2.39	0.41
1:p:598:GLN:HG3	1:p:599:GLY:O	2.21	0.41
1:q:514:ASP:OD1	1:q:514:ASP:N	2.53	0.41
1:r:249:LEU:HD22	1:r:648:ILE:HG23	2.02	0.41
1:r:285:ASN:O	1:r:617:ILE:HG23	2.21	0.41
1:r:350:LEU:CD1	1:r:395:LEU:HD22	2.49	0.41
1:r:439:ASP:OD1	1:r:439:ASP:N	2.51	0.41
1:s:285:ASN:O	1:s:617:ILE:HG23	2.21	0.41
1:t:429:SER:HA	1:t:567:THR:HB	2.02	0.41
1:v:283:ASP:O	1:v:361:CYS:HA	2.20	0.41
1:v:618:TRP:CD1	1:v:618:TRP:C	2.98	0.41
1:1:257:TYR:HE2	1:3:367:ALA:HB2	1.85	0.41
1:1:303:ASN:HB2	1:1:687:GLN:O	2.20	0.41
1:2:489:SER:OG	1:2:494:ASP:HB2	2.19	0.41
1:3:288:HIS:HD2	1:3:614:GLN:HA	1.84	0.41
1:4:303:ASN:HB2	1:4:687:GLN:O	2.20	0.41
1:5:285:ASN:O	1:5:617:ILE:HG23	2.21	0.41
1:6:427:SER:HB3	1:6:734:ASN:HA	2.03	0.41
1:6:429:SER:HA	1:6:567:THR:HB	2.02	0.41
1:8:287:PHE:CG	1:8:617:ILE:HG22	2.54	0.41
1:8:427:SER:HB3	1:8:734:ASN:HA	2.03	0.41
1:A:552:VAL:HG13	1:3:462:PHE:HB2	2.01	0.41
1:B:427:SER:HB3	1:B:734:ASN:HA	2.03	0.41
1:C:285:ASN:O	1:C:617:ILE:HG23	2.21	0.41
1:C:397:TYR:HD2	1:C:398:PHE:CD1	2.38	0.41
1:C:462:PHE:HB2	1:5:552:VAL:HG13	2.00	0.41
1:D:253:ASN:O	1:D:254:ASN:C	2.63	0.41
1:D:255:HIS:CG	1:D:652:PRO:HB3	2.54	0.41
1:D:598:GLN:HG3	1:D:599:GLY:O	2.21	0.41
1:E:367:ALA:HB2	1:I:257:TYR:HE2	1.85	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:598:GLN:HG3	1:H:599:GLY:O	2.21	0.41
1:J:583:LEU:HD13	1:p:487:ARG:NE	2.35	0.41
1:K:303:ASN:HB2	1:K:687:GLN:O	2.20	0.41
1:O:249:LEU:HD22	1:O:648:ILE:HG23	2.02	0.41
1:O:283:ASP:O	1:O:361:CYS:HA	2.20	0.41
1:O:367:ALA:HB2	1:T:257:TYR:HE2	1.85	0.41
1:O:413:TYR:CE2	1:O:643:PRO:CA	3.03	0.41
1:O:427:SER:HB3	1:O:734:ASN:HA	2.03	0.41
1:R:302:ASN:HD21	1:l:302:ASN:ND2	2.09	0.41
1:S:539:VAL:O	1:S:541:ILE:HG13	2.19	0.41
1:T:253:ASN:O	1:T:254:ASN:C	2.63	0.41
1:T:288:HIS:HD2	1:T:614:GLN:HA	1.84	0.41
1:T:429:SER:HA	1:T:567:THR:HB	2.02	0.41
1:U:283:ASP:O	1:U:361:CYS:HA	2.20	0.41
1:V:285:ASN:O	1:V:617:ILE:HG23	2.21	0.41
1:V:398:PHE:HE1	1:2:692:LYS:HB3	1.85	0.41
1:V:550:THR:HG23	1:V:551:ASN:N	2.36	0.41
1:V:617:ILE:HG21	1:V:617:ILE:HD13	1.85	0.41
1:W:257:TYR:HE2	1:4:367:ALA:HB2	1.85	0.41
1:X:433:LEU:HD12	1:X:433:LEU:HA	1.84	0.41
1:X:518:ASN:N	1:X:519:PRO:CD	2.82	0.41
1:Y:413:TYR:CE2	1:Y:643:PRO:CA	3.03	0.41
1:Y:416:GLU:N	1:Y:416:GLU:CD	2.74	0.41
1:b:598:GLN:HG3	1:b:599:GLY:O	2.21	0.41
1:c:397:TYR:HD2	1:c:398:PHE:CD1	2.38	0.41
1:d:550:THR:HG23	1:d:551:ASN:N	2.36	0.41
1:e:429:SER:HA	1:e:567:THR:HB	2.02	0.41
1:e:526:HIS:CD2	1:e:531:GLU:H	2.38	0.41
1:f:245:ARG:CD	1:f:366:PRO:HA	2.47	0.41
1:f:285:ASN:O	1:f:617:ILE:HG23	2.21	0.41
1:f:598:GLN:HG3	1:f:599:GLY:O	2.21	0.41
1:g:303:ASN:HB2	1:g:687:GLN:O	2.20	0.41
1:g:550:THR:HG23	1:g:551:ASN:N	2.36	0.41
1:h:283:ASP:O	1:h:361:CYS:HA	2.20	0.41
1:h:288:HIS:HD2	1:h:614:GLN:HA	1.84	0.41
1:h:552:VAL:CG2	1:h:556:LYS:HB2	2.50	0.41
1:h:598:GLN:HG3	1:h:599:GLY:O	2.21	0.41
1:i:285:ASN:O	1:i:617:ILE:HG23	2.21	0.41
1:k:552:VAL:CG2	1:k:556:LYS:HB2	2.50	0.41
1:l:413:TYR:CE2	1:l:643:PRO:CA	3.03	0.41
1:m:238:ARG:NH2	1:m:685:GLU:OE2	2.52	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:m:288:HIS:HD2	1:m:614:GLN:HA	1.84	0.41
1:n:550:THR:HG23	1:n:551:ASN:N	2.36	0.41
1:o:285:ASN:O	1:o:617:ILE:HG23	2.21	0.41
1:o:303:ASN:HB2	1:o:687:GLN:O	2.20	0.41
1:q:565:ILE:HD12	1:q:565:ILE:HG23	1.88	0.41
1:s:249:LEU:HD22	1:s:648:ILE:HG23	2.02	0.41
1:s:283:ASP:O	1:s:361:CYS:HA	2.20	0.41
1:t:617:ILE:HD13	1:t:617:ILE:HG21	1.85	0.41
1:u:303:ASN:ND2	1:u:686:LEU:HD22	2.33	0.41
1:u:439:ASP:OD1	1:u:439:ASP:N	2.51	0.41
1:u:518:ASN:N	1:u:519:PRO:CD	2.82	0.41
1:x:285:ASN:O	1:x:617:ILE:HG23	2.21	0.41
1:3:253:ASN:O	1:3:254:ASN:C	2.63	0.41
1:5:598:GLN:HG3	1:5:599:GLY:O	2.21	0.41
1:C:550:THR:HG23	1:C:551:ASN:N	2.36	0.41
1:D:287:PHE:CG	1:D:617:ILE:HG22	2.54	0.41
1:D:552:VAL:CG2	1:D:556:LYS:HB2	2.50	0.41
1:E:303:ASN:HB2	1:E:687:GLN:O	2.20	0.41
1:E:309:LYS:HA	1:E:309:LYS:HD2	1.92	0.41
1:E:526:HIS:CD2	1:E:531:GLU:H	2.39	0.41
1:G:287:PHE:CG	1:G:617:ILE:HG22	2.54	0.41
1:G:429:SER:HA	1:G:567:THR:HB	2.02	0.41
1:H:550:THR:HG23	1:H:551:ASN:N	2.36	0.41
1:I:283:ASP:O	1:I:361:CYS:HA	2.20	0.41
1:I:371:MET:C	1:I:372:VAL:O	2.62	0.41
1:I:439:ASP:OD1	1:I:439:ASP:N	2.51	0.41
1:J:427:SER:HB3	1:J:734:ASN:HA	2.02	0.41
1:K:367:ALA:HB2	1:6:257:TYR:HE2	1.85	0.41
1:K:371:MET:C	1:K:372:VAL:O	2.62	0.41
1:L:692:LYS:HB3	1:Q:398:PHE:HE1	1.85	0.41
1:M:552:VAL:CG2	1:M:556:LYS:HB2	2.50	0.41
1:N:283:ASP:O	1:N:361:CYS:HA	2.20	0.41
1:N:598:GLN:HG3	1:N:599:GLY:O	2.21	0.41
1:O:285:ASN:O	1:O:617:ILE:HG23	2.21	0.41
1:O:289:CYS:SG	1:O:362:LEU:HD22	2.61	0.41
1:O:692:LYS:HB3	1:o:398:PHE:HE1	1.85	0.41
1:Q:285:ASN:O	1:Q:617:ILE:HG23	2.21	0.41
1:Q:427:SER:HB3	1:Q:734:ASN:HA	2.03	0.41
1:S:514:ASP:OD1	1:S:514:ASP:N	2.53	0.41
1:T:526:HIS:CD2	1:T:531:GLU:H	2.39	0.41
1:T:550:THR:HG23	1:T:551:ASN:N	2.36	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:U:427:SER:HB3	1:U:734:ASN:HA	2.03	0.41
1:V:429:SER:OG	1:V:431:ASP:OD1	2.23	0.41
1:W:283:ASP:O	1:W:361:CYS:HA	2.20	0.41
1:W:427:SER:HB3	1:W:734:ASN:HA	2.03	0.41
1:W:618:TRP:CD1	1:W:618:TRP:C	2.98	0.41
1:X:398:PHE:HE1	1:l:692:LYS:HB3	1.85	0.41
1:X:640:LYS:HE3	1:X:640:LYS:HB3	1.89	0.41
1:a:285:ASN:O	1:a:617:ILE:HG23	2.21	0.41
1:a:288:HIS:HD2	1:a:614:GLN:HA	1.84	0.41
1:b:285:ASN:O	1:b:617:ILE:HG23	2.21	0.41
1:c:526:HIS:CD2	1:c:531:GLU:H	2.38	0.41
1:d:303:ASN:HB2	1:d:687:GLN:O	2.20	0.41
1:d:525:SER:N	1:d:562:GLU:HB2	2.33	0.41
1:f:289:CYS:SG	1:f:362:LEU:HD22	2.61	0.41
1:f:397:TYR:HD2	1:f:398:PHE:CD1	2.38	0.41
1:f:618:TRP:CD1	1:f:618:TRP:C	2.98	0.41
1:g:618:TRP:CD1	1:g:618:TRP:C	2.98	0.41
1:h:257:TYR:HE2	1:1:367:ALA:HB2	1.85	0.41
1:i:692:LYS:HZ1	1:s:397:TYR:HE2	1.69	0.41
1:k:253:ASN:O	1:k:254:ASN:C	2.63	0.41
1:k:303:ASN:HB2	1:k:687:GLN:O	2.20	0.41
1:k:309:LYS:HA	1:k:309:LYS:HD2	1.92	0.41
1:l:249:LEU:HD22	1:l:648:ILE:HG23	2.02	0.41
1:l:285:ASN:O	1:l:617:ILE:HG23	2.21	0.41
1:m:397:TYR:HD2	1:m:398:PHE:CD1	2.37	0.41
1:m:550:THR:HG23	1:m:551:ASN:N	2.36	0.41
1:n:427:SER:HB3	1:n:734:ASN:HA	2.02	0.41
1:n:525:SER:N	1:n:562:GLU:HB2	2.33	0.41
1:o:518:ASN:N	1:o:519:PRO:CD	2.82	0.41
1:o:640:LYS:HE3	1:o:640:LYS:HB3	1.90	0.41
1:o:692:LYS:HD3	1:w:349:GLN:HG3	2.03	0.41
1:p:285:ASN:O	1:p:617:ILE:HG23	2.21	0.41
1:p:550:THR:HG23	1:p:551:ASN:N	2.36	0.41
1:q:427:SER:HB3	1:q:734:ASN:HA	2.03	0.41
1:r:514:ASP:OD1	1:r:514:ASP:N	2.52	0.41
1:s:427:SER:HB3	1:s:734:ASN:HA	2.03	0.41
1:s:692:LYS:HB3	1:u:398:PHE:HE1	1.85	0.41
1:t:514:ASP:OD1	1:t:514:ASP:N	2.53	0.41
1:u:695:ASN:HD21	1:x:710:VAL:HG11	1.84	0.41
1:x:398:PHE:HE1	1:z:692:LYS:HB3	1.85	0.41
1:x:427:SER:HB3	1:x:734:ASN:HA	2.03	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:y:618:TRP:CD1	1:y:618:TRP:C	2.98	0.41
1:1:427:SER:HB3	1:1:734:ASN:HA	2.03	0.41
1:3:285:ASN:O	1:3:617:ILE:HG23	2.21	0.41
1:5:429:SER:HA	1:5:567:THR:HB	2.02	0.41
1:5:618:TRP:CD1	1:5:618:TRP:C	2.98	0.41
1:7:413:TYR:CE2	1:7:643:PRO:CA	3.03	0.41
1:8:550:THR:HG23	1:8:551:ASN:N	2.36	0.41
1:8:598:GLN:HG3	1:8:599:GLY:O	2.21	0.41
1:A:526:HIS:CD2	1:A:531:GLU:H	2.39	0.41
1:A:598:GLN:HG3	1:A:599:GLY:O	2.21	0.41
1:A:710:VAL:HG11	1:Y:695:ASN:HD21	1.85	0.41
1:B:367:ALA:HB2	1:M:257:TYR:HE2	1.85	0.41
1:B:371:MET:C	1:B:372:VAL:O	2.62	0.41
1:C:243:SER:HB2	1:C:245:ARG:NH1	2.22	0.41
1:C:289:CYS:SG	1:C:362:LEU:HD22	2.61	0.41
1:C:618:TRP:CD1	1:C:618:TRP:C	2.98	0.41
1:D:285:ASN:O	1:D:617:ILE:HG23	2.21	0.41
1:D:303:ASN:HB2	1:D:687:GLN:O	2.20	0.41
1:E:289:CYS:SG	1:E:362:LEU:HD22	2.61	0.41
1:E:349:GLN:HG3	1:X:692:LYS:HD3	2.03	0.41
1:E:427:SER:HB3	1:E:734:ASN:HA	2.03	0.41
1:F:589:GLN:HA	1:b:496:ASN:ND2	2.33	0.41
1:F:618:TRP:CD1	1:F:618:TRP:C	2.98	0.41
1:G:374:GLN:HG3	1:G:375:TYR:N	2.34	0.41
1:H:439:ASP:N	1:H:439:ASP:OD1	2.51	0.41
1:H:618:TRP:CD1	1:H:618:TRP:C	2.98	0.41
1:I:398:PHE:HE1	1:U:692:LYS:HB3	1.85	0.41
1:I:518:ASN:N	1:I:519:PRO:CD	2.82	0.41
1:I:552:VAL:CG2	1:I:556:LYS:HB2	2.50	0.41
1:I:695:ASN:HD21	1:Q:710:VAL:HG11	1.84	0.41
1:J:289:CYS:SG	1:J:362:LEU:HD22	2.61	0.41
1:J:692:LYS:HB3	1:p:398:PHE:HE1	1.85	0.41
1:L:367:ALA:HB2	1:8:257:TYR:HE2	1.85	0.41
1:L:550:THR:HG23	1:L:551:ASN:N	2.36	0.41
1:M:283:ASP:O	1:M:361:CYS:HA	2.20	0.41
1:M:429:SER:HA	1:M:567:THR:HB	2.02	0.41
1:N:285:ASN:O	1:N:617:ILE:HG23	2.21	0.41
1:P:514:ASP:OD1	1:P:514:ASP:N	2.53	0.41
1:R:285:ASN:O	1:R:617:ILE:HG23	2.21	0.41
1:R:348:TYR:H	1:R:348:TYR:HD2	1.65	0.41
1:R:427:SER:HB3	1:R:734:ASN:HA	2.03	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:R:496:ASN:ND2	1:k:589:GLN:HA	2.33	0.41
1:S:598:GLN:HG3	1:S:599:GLY:O	2.21	0.41
1:T:238:ARG:NH2	1:T:685:GLU:OE2	2.52	0.41
1:T:303:ASN:HB2	1:T:687:GLN:O	2.20	0.41
1:T:397:TYR:HD2	1:T:398:PHE:CD1	2.37	0.41
1:T:427:SER:HB3	1:T:734:ASN:HA	2.03	0.41
1:U:371:MET:C	1:U:372:VAL:O	2.62	0.41
1:V:302:ASN:HD21	1:g:302:ASN:ND2	2.10	0.41
1:V:688:LYS:HA	1:V:688:LYS:HD2	1.91	0.41
1:X:285:ASN:O	1:X:617:ILE:HG23	2.21	0.41
1:Y:285:ASN:O	1:Y:617:ILE:HG23	2.21	0.41
1:Z:526:HIS:CD2	1:Z:531:GLU:H	2.39	0.41
1:Z:539:VAL:O	1:Z:541:ILE:HG13	2.19	0.41
1:Z:550:THR:HG23	1:Z:551:ASN:N	2.36	0.41
1:Z:598:GLN:HG3	1:Z:599:GLY:O	2.21	0.41
1:a:253:ASN:O	1:a:254:ASN:C	2.63	0.41
1:b:289:CYS:SG	1:b:362:LEU:HD22	2.61	0.41
1:b:397:TYR:HD2	1:b:398:PHE:CD1	2.38	0.41
1:b:618:TRP:CD1	1:b:618:TRP:C	2.98	0.41
1:c:249:LEU:HD22	1:c:648:ILE:HG23	2.02	0.41
1:c:285:ASN:O	1:c:617:ILE:HG23	2.21	0.41
1:d:257:TYR:HE2	1:j:367:ALA:HB2	1.85	0.41
1:d:526:HIS:CD2	1:d:531:GLU:H	2.39	0.41
1:d:618:TRP:CD1	1:d:618:TRP:C	2.98	0.41
1:e:285:ASN:O	1:e:617:ILE:HG23	2.21	0.41
1:e:617:ILE:HD13	1:e:617:ILE:HG21	1.85	0.41
1:f:398:PHE:HE1	1:y:692:LYS:HB3	1.85	0.41
1:f:496:ASN:ND2	1:y:589:GLN:HA	2.33	0.41
1:g:289:CYS:SG	1:g:362:LEU:HD22	2.61	0.41
1:g:514:ASP:N	1:g:514:ASP:OD1	2.52	0.41
1:i:598:GLN:HG3	1:i:599:GLY:O	2.21	0.41
1:j:243:SER:HB2	1:j:245:ARG:NH1	2.21	0.41
1:j:245:ARG:CD	1:j:366:PRO:HA	2.47	0.41
1:k:255:HIS:CG	1:k:652:PRO:HB3	2.54	0.41
1:k:285:ASN:O	1:k:617:ILE:HG23	2.21	0.41
1:k:287:PHE:CG	1:k:617:ILE:HG22	2.54	0.41
1:k:489:SER:OG	1:k:494:ASP:HB2	2.19	0.41
1:l:289:CYS:SG	1:l:362:LEU:HD22	2.61	0.41
1:l:367:ALA:HB2	1:m:257:TYR:HE2	1.85	0.41
1:l:374:GLN:HG3	1:l:375:TYR:N	2.34	0.41
1:l:395:LEU:H	1:l:395:LEU:HG	1.48	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:m:427:SER:HB3	1:m:734:ASN:HA	2.03	0.41
1:m:526:HIS:CD2	1:m:531:GLU:H	2.39	0.41
1:m:598:GLN:HG3	1:m:599:GLY:O	2.21	0.41
1:n:617:ILE:HG21	1:n:617:ILE:HD13	1.85	0.41
1:p:617:ILE:HG21	1:p:617:ILE:HD13	1.85	0.41
1:q:285:ASN:O	1:q:617:ILE:HG23	2.21	0.41
1:r:550:THR:HG23	1:r:551:ASN:N	2.36	0.41
1:s:289:CYS:SG	1:s:362:LEU:HD22	2.61	0.41
1:s:371:MET:C	1:s:372:VAL:O	2.62	0.41
1:t:287:PHE:CG	1:t:617:ILE:HG22	2.55	0.41
1:t:374:GLN:HG3	1:t:375:TYR:N	2.34	0.41
1:u:253:ASN:O	1:u:254:ASN:C	2.63	0.41
1:u:371:MET:C	1:u:372:VAL:O	2.62	0.41
1:u:552:VAL:CG2	1:u:556:LYS:HB2	2.50	0.41
1:v:253:ASN:O	1:v:254:ASN:C	2.63	0.41
1:v:395:LEU:H	1:v:395:LEU:HG	1.48	0.41
1:v:598:GLN:HG3	1:v:599:GLY:O	2.21	0.41
1:w:289:CYS:SG	1:w:362:LEU:HD22	2.61	0.41
1:w:303:ASN:HB2	1:w:687:GLN:O	2.20	0.41
1:w:526:HIS:CD2	1:w:531:GLU:H	2.39	0.41
1:2:427:SER:HB3	1:2:734:ASN:HA	2.03	0.41
1:4:371:MET:C	1:4:372:VAL:O	2.62	0.41
1:4:397:TYR:HD2	1:4:398:PHE:CD1	2.37	0.41
1:5:314:LYS:CB	1:5:410:THR:HG22	2.48	0.41
1:5:427:SER:HB3	1:5:734:ASN:HA	2.02	0.41
1:5:550:THR:HG23	1:5:551:ASN:N	2.36	0.41
1:6:618:TRP:CD1	1:6:618:TRP:C	2.98	0.41
1:7:285:ASN:O	1:7:617:ILE:HG23	2.21	0.41
1:8:397:TYR:HD2	1:8:398:PHE:CD1	2.38	0.41
1:8:526:HIS:CD2	1:8:531:GLU:H	2.39	0.41
1:A:253:ASN:O	1:A:254:ASN:C	2.63	0.41
1:A:371:MET:C	1:A:372:VAL:O	2.62	0.41
1:D:489:SER:OG	1:D:494:ASP:HB2	2.19	0.41
1:E:253:ASN:O	1:E:254:ASN:C	2.63	0.41
1:E:285:ASN:O	1:E:617:ILE:HG23	2.21	0.41
1:F:398:PHE:HE1	1:n:692:LYS:HB3	1.85	0.41
1:F:550:THR:HG23	1:F:551:ASN:N	2.36	0.41
1:G:416:GLU:N	1:G:416:GLU:CD	2.74	0.41
1:I:253:ASN:O	1:I:254:ASN:C	2.63	0.41
1:I:598:GLN:HG3	1:I:599:GLY:O	2.21	0.41
1:J:285:ASN:O	1:J:617:ILE:HG23	2.21	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:526:HIS:CD2	1:K:531:GLU:H	2.39	0.41
1:M:487:ARG:NE	1:8:583:LEU:HD13	2.36	0.41
1:N:427:SER:HB3	1:N:734:ASN:HA	2.02	0.41
1:N:526:HIS:CD2	1:N:531:GLU:H	2.39	0.41
1:N:583:LEU:HD13	1:U:487:ARG:NE	2.36	0.41
1:O:253:ASN:O	1:O:254:ASN:C	2.63	0.41
1:O:374:GLN:HG3	1:O:375:TYR:N	2.34	0.41
1:O:640:LYS:HE3	1:O:640:LYS:HB3	1.89	0.41
1:O:710:VAL:HG11	1:q:695:ASN:HD21	1.86	0.41
1:S:550:THR:HG23	1:S:551:ASN:N	2.36	0.41
1:T:598:GLN:HG3	1:T:599:GLY:O	2.21	0.41
1:U:289:CYS:SG	1:U:362:LEU:HD22	2.61	0.41
1:X:550:THR:HG23	1:X:551:ASN:N	2.36	0.41
1:Y:367:ALA:HB2	1:e:257:TYR:HE2	1.85	0.41
1:Z:397:TYR:HD2	1:Z:398:PHE:CD1	2.38	0.41
1:Z:439:ASP:OD1	1:Z:439:ASP:N	2.51	0.41
1:b:245:ARG:CD	1:b:366:PRO:HA	2.47	0.41
1:b:463:SER:HG	1:n:551:ASN:ND2	2.17	0.41
1:c:253:ASN:O	1:c:254:ASN:C	2.63	0.41
1:c:257:TYR:HE2	1:7:367:ALA:HB2	1.85	0.41
1:c:427:SER:HB3	1:c:734:ASN:HA	2.03	0.41
1:d:427:SER:HB3	1:d:734:ASN:HA	2.03	0.41
1:d:569:ASN:HD21	1:d:606:TRP:CB	2.32	0.41
1:e:249:LEU:HD22	1:e:648:ILE:HG23	2.02	0.41
1:e:397:TYR:HD2	1:e:398:PHE:CD1	2.38	0.41
1:h:692:LYS:HZ1	1:t:397:TYR:HE2	1.67	0.41
1:i:283:ASP:O	1:i:361:CYS:HA	2.20	0.41
1:i:427:SER:HB3	1:i:734:ASN:HA	2.03	0.41
1:i:526:HIS:CD2	1:i:531:GLU:H	2.39	0.41
1:l:253:ASN:O	1:l:254:ASN:C	2.63	0.41
1:l:283:ASP:O	1:l:361:CYS:HA	2.20	0.41
1:m:303:ASN:HB2	1:m:687:GLN:O	2.20	0.41
1:n:526:HIS:CD2	1:n:531:GLU:H	2.39	0.41
1:n:618:TRP:CD1	1:n:618:TRP:C	2.98	0.41
1:o:550:THR:HG23	1:o:551:ASN:N	2.36	0.41
1:o:618:TRP:CD1	1:o:618:TRP:C	2.98	0.41
1:r:598:GLN:HG3	1:r:599:GLY:O	2.21	0.41
1:v:289:CYS:SG	1:v:362:LEU:HD22	2.61	0.41
1:v:429:SER:HA	1:v:567:THR:HB	2.02	0.41
1:v:526:HIS:CD2	1:v:531:GLU:H	2.39	0.41
1:w:253:ASN:O	1:w:254:ASN:C	2.63	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:w:427:SER:HB3	1:w:734:ASN:HA	2.03	0.41
1:w:429:SER:OG	1:w:431:ASP:OD1	2.23	0.41
1:x:618:TRP:CD1	1:x:618:TRP:C	2.98	0.41
1:z:550:THR:HG23	1:z:551:ASN:N	2.36	0.41
1:1:365:PHE:HA	1:1:366:PRO:HD3	1.91	0.41
1:2:289:CYS:SG	1:2:362:LEU:HD22	2.61	0.41
1:4:526:HIS:CD2	1:4:531:GLU:H	2.39	0.41
1:7:416:GLU:N	1:7:416:GLU:CD	2.74	0.41
1:8:539:VAL:O	1:8:541:ILE:HG13	2.19	0.41
1:A:289:CYS:SG	1:A:362:LEU:HD22	2.61	0.41
1:A:395:LEU:H	1:A:395:LEU:HG	1.48	0.41
1:B:285:ASN:O	1:B:617:ILE:HG23	2.21	0.41
1:C:692:LYS:HB3	1:5:398:PHE:HE1	1.85	0.41
1:D:550:THR:HG23	1:D:551:ASN:N	2.36	0.41
1:D:618:TRP:CZ3	1:D:643:PRO:HG2	2.54	0.41
1:D:618:TRP:CD1	1:D:618:TRP:C	2.98	0.41
1:E:695:ASN:HD21	1:U:710:VAL:HG11	1.84	0.41
1:F:285:ASN:O	1:F:617:ILE:HG23	2.21	0.41
1:F:289:CYS:SG	1:F:362:LEU:HD22	2.61	0.41
1:F:427:SER:HB3	1:F:734:ASN:HA	2.02	0.41
1:G:365:PHE:HA	1:G:366:PRO:HD3	1.91	0.41
1:G:598:GLN:HG3	1:G:599:GLY:O	2.21	0.41
1:H:303:ASN:HB2	1:H:687:GLN:O	2.20	0.41
1:H:398:PHE:HE1	1:g:692:LYS:HB3	1.85	0.41
1:H:640:LYS:HE3	1:H:640:LYS:HB3	1.89	0.41
1:I:487:ARG:NE	1:U:583:LEU:HD13	2.36	0.41
1:J:618:TRP:CZ3	1:J:643:PRO:HG2	2.54	0.41
1:K:249:LEU:HD22	1:K:648:ILE:HG23	2.02	0.41
1:K:598:GLN:HG3	1:K:599:GLY:O	2.21	0.41
1:L:285:ASN:O	1:L:617:ILE:HG23	2.21	0.41
1:O:302:ASN:ND2	1:q:302:ASN:HD21	2.09	0.41
1:P:243:SER:HB2	1:P:245:ARG:NH1	2.22	0.41
1:P:526:HIS:CD2	1:P:531:GLU:H	2.38	0.41
1:Q:249:LEU:HD22	1:Q:648:ILE:HG23	2.02	0.41
1:Q:349:GLN:HE21	1:Q:349:GLN:CA	2.04	0.41
1:Q:618:TRP:CD1	1:Q:618:TRP:C	2.98	0.41
1:V:397:TYR:HD2	1:V:398:PHE:CD1	2.37	0.41
1:X:371:MET:C	1:X:372:VAL:O	2.62	0.41
1:Y:249:LEU:HD22	1:Y:648:ILE:HG23	2.02	0.41
1:Y:253:ASN:O	1:Y:254:ASN:C	2.63	0.41
1:Z:417:ASP:O	1:Z:418:VAL:HB	2.21	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Z:583:LEU:HD13	1:h:487:ARG:NE	2.36	0.41
1:b:283:ASP:O	1:b:361:CYS:HA	2.20	0.41
1:d:589:GLN:HA	1:y:496:ASN:ND2	2.33	0.41
1:d:598:GLN:HG3	1:d:599:GLY:O	2.21	0.41
1:d:617:ILE:HG21	1:d:617:ILE:HD13	1.85	0.41
1:e:427:SER:HB3	1:e:734:ASN:HA	2.02	0.41
1:e:583:LEU:HD13	1:3:487:ARG:NE	2.36	0.41
1:e:598:GLN:HG3	1:e:599:GLY:O	2.21	0.41
1:f:283:ASP:O	1:f:361:CYS:HA	2.20	0.41
1:f:365:PHE:HA	1:f:366:PRO:HD3	1.91	0.41
1:i:289:CYS:SG	1:i:362:LEU:HD22	2.61	0.41
1:j:526:HIS:CD2	1:j:531:GLU:H	2.39	0.41
1:j:618:TRP:CD1	1:j:618:TRP:C	2.98	0.41
1:k:550:THR:HG23	1:k:551:ASN:N	2.36	0.41
1:k:618:TRP:CD1	1:k:618:TRP:C	2.98	0.41
1:n:569:ASN:HD21	1:n:606:TRP:CB	2.32	0.41
1:p:253:ASN:O	1:p:254:ASN:C	2.63	0.41
1:p:397:TYR:HD2	1:p:398:PHE:CD1	2.37	0.41
1:q:348:TYR:H	1:q:348:TYR:HD2	1.65	0.41
1:q:526:HIS:CD2	1:q:531:GLU:H	2.39	0.41
1:s:583:LEU:HD13	1:u:487:ARG:NE	2.36	0.41
1:s:598:GLN:HG3	1:s:599:GLY:O	2.21	0.41
1:s:710:VAL:HG11	1:w:695:ASN:HD21	1.84	0.41
1:t:416:GLU:N	1:t:416:GLU:CD	2.74	0.41
1:u:289:CYS:SG	1:u:362:LEU:HD22	2.61	0.41
1:u:303:ASN:HB2	1:u:687:GLN:O	2.20	0.41
1:u:598:GLN:HG3	1:u:599:GLY:O	2.21	0.41
1:v:257:TYR:HE2	1:6:367:ALA:HB2	1.85	0.41
1:v:371:MET:C	1:v:372:VAL:O	2.62	0.41
1:w:285:ASN:O	1:w:617:ILE:HG23	2.21	0.41
1:w:550:THR:HG23	1:w:551:ASN:N	2.36	0.41
1:x:249:LEU:HD22	1:x:648:ILE:HG23	2.02	0.41
1:y:285:ASN:O	1:y:617:ILE:HG23	2.21	0.41
1:y:289:CYS:SG	1:y:362:LEU:HD22	2.61	0.41
1:y:518:ASN:N	1:y:519:PRO:CD	2.82	0.41
1:z:285:ASN:O	1:z:617:ILE:HG23	2.21	0.41
1:z:397:TYR:HD2	1:z:398:PHE:CD1	2.38	0.41
1:1:285:ASN:O	1:1:617:ILE:HG23	2.21	0.41
1:1:371:MET:C	1:1:372:VAL:O	2.62	0.41
1:2:285:ASN:O	1:2:617:ILE:HG23	2.21	0.41
1:2:550:THR:HG23	1:2:551:ASN:N	2.36	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:2:618:TRP:CZ3	1:2:643:PRO:HG2	2.54	0.41
1:3:427:SER:HB3	1:3:734:ASN:HA	2.03	0.41
1:4:249:LEU:HD22	1:4:648:ILE:HG23	2.02	0.41
1:4:598:GLN:HG3	1:4:599:GLY:O	2.21	0.41
1:5:439:ASP:N	1:5:439:ASP:OD1	2.51	0.41
1:6:283:ASP:O	1:6:361:CYS:HA	2.20	0.41
1:8:417:ASP:O	1:8:418:VAL:HB	2.21	0.41
1:A:285:ASN:O	1:A:617:ILE:HG23	2.21	0.41
1:A:429:SER:HA	1:A:567:THR:HB	2.02	0.41
1:B:429:SER:HA	1:B:567:THR:HB	2.02	0.41
1:B:583:LEU:HD13	1:4:487:ARG:NE	2.36	0.41
1:C:367:ALA:HB2	1:P:257:TYR:HE2	1.85	0.41
1:C:398:PHE:HE1	1:r:692:LYS:HB3	1.86	0.41
1:C:417:ASP:O	1:C:418:VAL:HB	2.21	0.41
1:C:514:ASP:OD1	1:C:514:ASP:N	2.53	0.41
1:C:583:LEU:HD13	1:5:487:ARG:NE	2.36	0.41
1:C:598:GLN:HG3	1:C:599:GLY:O	2.21	0.41
1:D:397:TYR:HD2	1:D:398:PHE:CD1	2.38	0.41
1:D:398:PHE:HE1	1:T:692:LYS:HB3	1.85	0.41
1:D:487:ARG:NE	1:T:583:LEU:HD13	2.36	0.41
1:E:550:THR:HG23	1:E:551:ASN:N	2.36	0.41
1:E:640:LYS:HE3	1:E:640:LYS:HB3	1.89	0.41
1:F:518:ASN:N	1:F:519:PRO:CD	2.82	0.41
1:F:583:LEU:HD13	1:b:487:ARG:NE	2.36	0.41
1:F:692:LYS:HB3	1:b:398:PHE:HE1	1.85	0.41
1:G:249:LEU:HD22	1:G:648:ILE:HG23	2.02	0.41
1:G:349:GLN:HG3	1:M:692:LYS:HD3	2.03	0.41
1:H:289:CYS:SG	1:H:362:LEU:HD22	2.61	0.41
1:H:314:LYS:CB	1:H:410:THR:HG22	2.48	0.41
1:H:427:SER:HB3	1:H:734:ASN:HA	2.03	0.41
1:H:487:ARG:NE	1:g:583:LEU:HD13	2.36	0.41
1:H:526:HIS:CD2	1:H:531:GLU:H	2.39	0.41
1:H:617:ILE:HG21	1:H:617:ILE:HD13	1.85	0.41
1:I:289:CYS:SG	1:I:362:LEU:HD22	2.61	0.41
1:I:303:ASN:HB2	1:I:687:GLN:O	2.20	0.41
1:I:367:ALA:HB2	1:Y:257:TYR:HE2	1.85	0.41
1:J:550:THR:HG23	1:J:551:ASN:N	2.36	0.41
1:K:285:ASN:O	1:K:617:ILE:HG23	2.21	0.41
1:K:397:TYR:HD2	1:K:398:PHE:CD1	2.38	0.41
1:K:487:ARG:NE	1:1:583:LEU:HD13	2.36	0.41
1:K:514:ASP:OD1	1:K:514:ASP:N	2.53	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:397:TYR:HD2	1:L:398:PHE:CD1	2.38	0.41
1:L:398:PHE:HE1	1:Y:692:LYS:HB3	1.85	0.41
1:L:583:LEU:HD13	1:Q:487:ARG:NE	2.36	0.41
1:L:598:GLN:HG3	1:L:599:GLY:O	2.21	0.41
1:M:249:LEU:HD22	1:M:648:ILE:HG23	2.02	0.41
1:M:289:CYS:SG	1:M:362:LEU:HD22	2.61	0.41
1:N:257:TYR:HE2	1:Q:367:ALA:HB2	1.85	0.41
1:N:289:CYS:SG	1:N:362:LEU:HD22	2.61	0.41
1:O:429:SER:HA	1:O:567:THR:HB	2.02	0.41
1:O:618:TRP:CD1	1:O:618:TRP:C	2.98	0.41
1:P:303:ASN:HB2	1:P:687:GLN:O	2.20	0.41
1:P:349:GLN:HG3	1:p:692:LYS:HD3	2.03	0.41
1:P:367:ALA:HB2	1:n:257:TYR:HE2	1.85	0.41
1:P:487:ARG:NE	1:p:583:LEU:HD13	2.36	0.41
1:P:618:TRP:CD1	1:P:618:TRP:C	2.98	0.41
1:Q:243:SER:HB2	1:Q:245:ARG:NH1	2.21	0.41
1:Q:417:ASP:O	1:Q:418:VAL:HB	2.21	0.41
1:Q:583:LEU:HD13	1:Y:487:ARG:NE	2.36	0.41
1:Q:646:ILE:C	1:Q:647:LEU:HD12	2.46	0.41
1:R:283:ASP:O	1:R:361:CYS:HA	2.20	0.41
1:R:487:ARG:NE	1:k:583:LEU:HD13	2.36	0.41
1:R:526:HIS:CD2	1:R:531:GLU:H	2.39	0.41
1:S:526:HIS:CD2	1:S:531:GLU:H	2.39	0.41
1:S:692:LYS:HB3	1:g:398:PHE:HE1	1.86	0.41
1:S:695:ASN:HD21	1:X:710:VAL:HG11	1.84	0.41
1:T:289:CYS:SG	1:T:362:LEU:HD22	2.61	0.41
1:T:302:ASN:ND2	1:m:302:ASN:HD21	2.10	0.41
1:T:640:LYS:HE3	1:T:640:LYS:HB3	1.89	0.41
1:U:598:GLN:HG3	1:U:599:GLY:O	2.21	0.41
1:U:618:TRP:CD1	1:U:618:TRP:C	2.98	0.41
1:V:253:ASN:O	1:V:254:ASN:C	2.63	0.41
1:V:692:LYS:HD3	1:j:349:GLN:HG3	2.03	0.41
1:V:692:LYS:HB3	1:j:398:PHE:HE1	1.85	0.41
1:X:365:PHE:HA	1:X:366:PRO:HD3	1.91	0.41
1:X:618:TRP:CD1	1:X:618:TRP:C	2.98	0.41
1:Y:550:THR:HG23	1:Y:551:ASN:N	2.36	0.41
1:Y:646:ILE:C	1:Y:647:LEU:HD12	2.46	0.41
1:Z:257:TYR:HE2	1:z:367:ALA:HB2	1.85	0.41
1:Z:283:ASP:O	1:Z:361:CYS:HA	2.20	0.41
1:Z:288:HIS:HD2	1:Z:614:GLN:HA	1.84	0.41
1:Z:349:GLN:HG3	1:t:692:LYS:HD3	2.03	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:a:303:ASN:HB2	1:a:687:GLN:O	2.20	0.41
1:a:427:SER:HB3	1:a:734:ASN:HA	2.03	0.41
1:a:487:ARG:NE	1:c:583:LEU:HD13	2.36	0.41
1:a:583:LEU:HD13	1:v:487:ARG:NE	2.36	0.41
1:b:288:HIS:HD2	1:b:614:GLN:HA	1.84	0.41
1:b:365:PHE:HA	1:b:366:PRO:HD3	1.91	0.41
1:c:487:ARG:NE	1:v:583:LEU:HD13	2.36	0.41
1:c:598:GLN:HG3	1:c:599:GLY:O	2.21	0.41
1:d:417:ASP:O	1:d:418:VAL:HB	2.21	0.41
1:d:551:ASN:ND2	1:f:463:SER:HG	2.17	0.41
1:d:692:LYS:HB3	1:y:398:PHE:HE1	1.85	0.41
1:e:253:ASN:O	1:e:254:ASN:C	2.63	0.41
1:f:395:LEU:H	1:f:395:LEU:HG	1.48	0.41
1:f:487:ARG:NE	1:y:583:LEU:HD13	2.36	0.41
1:g:367:ALA:HB2	1:j:257:TYR:HE2	1.85	0.41
1:g:395:LEU:H	1:g:395:LEU:HG	1.48	0.41
1:g:417:ASP:O	1:g:418:VAL:HB	2.21	0.41
1:g:598:GLN:HG3	1:g:599:GLY:O	2.21	0.41
1:h:249:LEU:HD22	1:h:648:ILE:HG23	2.02	0.41
1:h:289:CYS:SG	1:h:362:LEU:HD22	2.61	0.41
1:h:397:TYR:HD2	1:h:398:PHE:CD1	2.38	0.41
1:h:692:LYS:HD3	1:t:349:GLN:HG3	2.03	0.41
1:i:257:TYR:HE2	1:x:367:ALA:HB2	1.85	0.41
1:i:583:LEU:HD13	1:s:487:ARG:NE	2.36	0.41
1:j:289:CYS:SG	1:j:362:LEU:HD22	2.61	0.41
1:j:303:ASN:HB2	1:j:687:GLN:O	2.20	0.41
1:j:309:LYS:HA	1:j:309:LYS:HD2	1.92	0.41
1:j:514:ASP:OD1	1:j:514:ASP:N	2.53	0.41
1:k:398:PHE:HE1	1:m:692:LYS:HB3	1.85	0.41
1:k:487:ARG:NE	1:m:583:LEU:HD13	2.36	0.41
1:k:618:TRP:CZ3	1:k:643:PRO:HG2	2.54	0.41
1:l:618:TRP:CD1	1:l:618:TRP:C	2.98	0.41
1:m:289:CYS:SG	1:m:362:LEU:HD22	2.61	0.41
1:m:640:LYS:HE3	1:m:640:LYS:HB3	1.90	0.41
1:n:417:ASP:O	1:n:418:VAL:HB	2.21	0.41
1:n:598:GLN:HG3	1:n:599:GLY:O	2.21	0.41
1:o:365:PHE:HA	1:o:366:PRO:HD3	1.91	0.41
1:o:371:MET:C	1:o:372:VAL:O	2.62	0.41
1:o:598:GLN:HG3	1:o:599:GLY:O	2.21	0.41
1:p:314:LYS:CB	1:p:410:THR:HG22	2.48	0.41
1:p:429:SER:HA	1:p:567:THR:HB	2.01	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:p:688:LYS:HA	1:p:688:LYS:HD2	1.90	0.41
1:q:283:ASP:O	1:q:361:CYS:HA	2.20	0.41
1:q:640:LYS:HE3	1:q:640:LYS:HB3	1.89	0.41
1:r:526:HIS:CD2	1:r:531:GLU:H	2.38	0.41
1:t:249:LEU:HD22	1:t:648:ILE:HG23	2.02	0.41
1:t:443:TYR:HB3	1:t:462:PHE:HB3	2.03	0.41
1:t:598:GLN:HG3	1:t:599:GLY:O	2.21	0.41
1:u:348:TYR:H	1:u:348:TYR:HD2	1.65	0.41
1:u:367:ALA:HB2	1:7:257:TYR:HE2	1.85	0.41
1:x:243:SER:HB2	1:x:245:ARG:NH1	2.21	0.41
1:x:417:ASP:O	1:x:418:VAL:HB	2.21	0.41
1:x:487:ARG:NE	1:z:583:LEU:HD13	2.36	0.41
1:x:583:LEU:HD13	1:7:487:ARG:NE	2.36	0.41
1:x:617:ILE:HG21	1:x:617:ILE:HD13	1.85	0.41
1:y:427:SER:HB3	1:y:734:ASN:HA	2.03	0.41
1:y:550:THR:HG23	1:y:551:ASN:N	2.36	0.41
1:z:526:HIS:CD2	1:z:531:GLU:H	2.39	0.41
1:z:598:GLN:HG3	1:z:599:GLY:O	2.21	0.41
1:1:249:LEU:HD22	1:1:648:ILE:HG23	2.02	0.41
1:1:289:CYS:SG	1:1:362:LEU:HD22	2.61	0.41
1:1:429:SER:HA	1:1:567:THR:HB	2.02	0.41
1:3:303:ASN:HB2	1:3:687:GLN:O	2.20	0.41
1:3:395:LEU:H	1:3:395:LEU:HG	1.48	0.41
1:3:433:LEU:HD12	1:3:433:LEU:HA	1.84	0.41
1:4:514:ASP:OD1	1:4:514:ASP:N	2.53	0.41
1:5:303:ASN:HB2	1:5:687:GLN:O	2.20	0.41
1:5:417:ASP:O	1:5:418:VAL:HB	2.21	0.41
1:5:526:HIS:CD2	1:5:531:GLU:H	2.39	0.41
1:7:249:LEU:HD22	1:7:648:ILE:HG23	2.02	0.41
1:7:253:ASN:O	1:7:254:ASN:C	2.63	0.41
1:8:253:ASN:O	1:8:254:ASN:C	2.63	0.41
1:8:283:ASP:O	1:8:361:CYS:HA	2.20	0.41
1:8:288:HIS:HD2	1:8:614:GLN:HA	1.84	0.41
1:B:289:CYS:SG	1:B:362:LEU:HD22	2.61	0.41
1:B:349:GLN:HG3	1:6:692:LYS:HD3	2.03	0.41
1:B:550:THR:HG23	1:B:551:ASN:N	2.36	0.41
1:C:395:LEU:H	1:C:395:LEU:HG	1.48	0.41
1:C:526:HIS:CD2	1:C:531:GLU:H	2.39	0.41
1:D:309:LYS:HA	1:D:309:LYS:HD2	1.92	0.41
1:D:443:TYR:HB3	1:D:462:PHE:HB3	2.03	0.41
1:F:249:LEU:HD22	1:F:648:ILE:HG23	2.02	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:417:ASP:O	1:G:418:VAL:HB	2.21	0.41
1:G:443:TYR:HB3	1:G:462:PHE:HB3	2.03	0.41
1:I:249:LEU:HD22	1:I:648:ILE:HG23	2.02	0.41
1:I:583:LEU:HD13	1:N:487:ARG:NE	2.36	0.41
1:I:617:ILE:HD13	1:I:617:ILE:HG21	1.85	0.41
1:J:487:ARG:NE	1:P:583:LEU:HD13	2.36	0.41
1:K:692:LYS:HD3	1:W:349:GLN:HG3	2.03	0.41
1:L:526:HIS:CD2	1:L:531:GLU:H	2.39	0.41
1:M:417:ASP:O	1:M:418:VAL:HB	2.21	0.41
1:M:550:THR:HG23	1:M:551:ASN:N	2.36	0.41
1:O:395:LEU:H	1:O:395:LEU:HG	1.48	0.41
1:P:289:CYS:SG	1:P:362:LEU:HD22	2.61	0.41
1:Q:439:ASP:OD1	1:Q:439:ASP:N	2.51	0.41
1:R:550:THR:HG23	1:R:551:ASN:N	2.36	0.41
1:R:640:LYS:HE3	1:R:640:LYS:HB3	1.89	0.41
1:S:289:CYS:SG	1:S:362:LEU:HD22	2.61	0.41
1:T:302:ASN:HD21	1:m:302:ASN:ND2	2.10	0.41
1:T:487:ARG:NE	1:q:583:LEU:HD13	2.36	0.41
1:U:550:THR:HG23	1:U:551:ASN:N	2.36	0.41
1:V:314:LYS:CB	1:V:410:THR:HG22	2.48	0.41
1:V:429:SER:HA	1:V:567:THR:HB	2.01	0.41
1:W:349:GLN:NE2	1:W:349:GLN:CA	2.73	0.41
1:X:598:GLN:HG3	1:X:599:GLY:O	2.21	0.41
1:X:646:ILE:C	1:X:647:LEU:HD12	2.46	0.41
1:Y:365:PHE:HA	1:Y:366:PRO:HD3	1.91	0.41
1:a:286:ARG:HG3	1:a:361:CYS:SG	2.62	0.41
1:a:433:LEU:HD12	1:a:433:LEU:HA	1.84	0.41
1:a:618:TRP:CD1	1:a:618:TRP:C	2.98	0.41
1:a:646:ILE:C	1:a:647:LEU:HD12	2.46	0.41
1:b:303:ASN:HB2	1:b:687:GLN:O	2.20	0.41
1:c:617:ILE:HD13	1:c:617:ILE:HG21	1.85	0.41
1:f:303:ASN:HB2	1:f:687:GLN:O	2.20	0.41
1:h:417:ASP:O	1:h:418:VAL:HB	2.21	0.41
1:h:550:THR:HG23	1:h:551:ASN:N	2.36	0.41
1:i:487:ARG:NE	1:u:583:LEU:HD13	2.36	0.41
1:k:349:GLN:HG3	1:m:692:LYS:HD3	2.03	0.41
1:k:397:TYR:HD2	1:k:398:PHE:CD1	2.38	0.41
1:k:443:TYR:HB3	1:k:462:PHE:HB3	2.03	0.41
1:l:417:ASP:O	1:l:418:VAL:HB	2.21	0.41
1:l:429:SER:HA	1:l:567:THR:HB	2.02	0.41
1:m:314:LYS:CB	1:m:410:THR:HG22	2.48	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:o:646:ILE:C	1:o:647:LEU:HD12	2.46	0.41
1:r:618:TRP:CD1	1:r:618:TRP:C	2.98	0.41
1:s:618:TRP:CD1	1:s:618:TRP:C	2.98	0.41
1:t:289:CYS:SG	1:t:362:LEU:HD22	2.61	0.41
1:v:285:ASN:O	1:v:617:ILE:HG23	2.21	0.41
1:w:443:TYR:HB3	1:w:462:PHE:HB3	2.03	0.41
1:x:646:ILE:C	1:x:647:LEU:HD12	2.46	0.41
1:z:349:GLN:NE2	1:z:349:GLN:CA	2.73	0.41
1:1:417:ASP:O	1:1:418:VAL:HB	2.21	0.41
1:2:526:HIS:CD2	1:2:531:GLU:H	2.39	0.41
1:3:286:ARG:HG3	1:3:361:CYS:SG	2.62	0.41
1:3:618:TRP:CD1	1:3:618:TRP:C	2.98	0.41
1:4:285:ASN:O	1:4:617:ILE:HG23	2.21	0.41
1:4:395:LEU:H	1:4:395:LEU:HG	1.48	0.41
1:4:550:THR:HG23	1:4:551:ASN:N	2.36	0.41
1:4:692:LYS:HD3	1:6:349:GLN:HG3	2.03	0.41
1:5:289:CYS:SG	1:5:362:LEU:HD22	2.61	0.41
1:6:253:ASN:O	1:6:254:ASN:C	2.63	0.41
1:7:365:PHE:HA	1:7:366:PRO:HD3	1.91	0.41
1:7:550:THR:HG23	1:7:551:ASN:N	2.36	0.41
1:7:646:ILE:C	1:7:647:LEU:HD12	2.46	0.41
1:A:487:ARG:NE	1:3:583:LEU:HD13	2.36	0.40
1:A:646:ILE:C	1:A:647:LEU:HD12	2.46	0.40
1:B:249:LEU:HD22	1:B:648:ILE:HG23	2.02	0.40
1:B:417:ASP:O	1:B:418:VAL:HB	2.21	0.40
1:C:429:SER:HA	1:C:567:THR:HB	2.02	0.40
1:D:289:CYS:SG	1:D:362:LEU:HD22	2.61	0.40
1:E:416:GLU:OE1	1:E:416:GLU:CA	2.70	0.40
1:E:487:ARG:NE	1:X:583:LEU:HD13	2.36	0.40
1:F:598:GLN:HG3	1:F:599:GLY:O	2.21	0.40
1:G:257:TYR:HE2	1:J:367:ALA:HB2	1.86	0.40
1:G:692:LYS:HD3	1:8:349:GLN:HG3	2.03	0.40
1:H:249:LEU:HD22	1:H:648:ILE:HG23	2.02	0.40
1:H:417:ASP:O	1:H:418:VAL:HB	2.22	0.40
1:J:349:GLN:HG3	1:P:692:LYS:HD3	2.04	0.40
1:K:427:SER:HB3	1:K:734:ASN:HA	2.02	0.40
1:O:417:ASP:O	1:O:418:VAL:HB	2.21	0.40
1:O:692:LYS:HD3	1:o:349:GLN:HG3	2.03	0.40
1:P:398:PHE:HE1	1:p:692:LYS:HB3	1.85	0.40
1:P:417:ASP:O	1:P:418:VAL:HB	2.21	0.40
1:Q:314:LYS:CB	1:Q:410:THR:HG22	2.48	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Q:443:TYR:HB3	1:Q:462:PHE:HB3	2.03	0.40
1:Q:692:LYS:HZ1	1:Y:397:TYR:HE2	1.69	0.40
1:R:583:LEU:HD13	1:m:487:ARG:NE	2.36	0.40
1:R:618:TRP:CD1	1:R:618:TRP:C	2.98	0.40
1:S:303:ASN:HB2	1:S:687:GLN:O	2.20	0.40
1:S:618:TRP:CD1	1:S:618:TRP:C	2.98	0.40
1:T:285:ASN:O	1:T:617:ILE:HG23	2.21	0.40
1:T:286:ARG:HG3	1:T:361:CYS:SG	2.61	0.40
1:T:314:LYS:CB	1:T:410:THR:HG22	2.48	0.40
1:U:433:LEU:HD12	1:U:433:LEU:HA	1.84	0.40
1:U:646:ILE:C	1:U:647:LEU:HD12	2.46	0.40
1:V:583:LEU:HD13	1:j:487:ARG:NE	2.36	0.40
1:W:249:LEU:HD22	1:W:648:ILE:HG23	2.02	0.40
1:W:348:TYR:H	1:W:348:TYR:HD2	1.65	0.40
1:W:443:TYR:HB3	1:W:462:PHE:HB3	2.03	0.40
1:W:692:LYS:HD3	1:1:349:GLN:HG3	2.04	0.40
1:Y:526:HIS:CD2	1:Y:531:GLU:H	2.39	0.40
1:Y:598:GLN:HG3	1:Y:599:GLY:O	2.21	0.40
1:Z:303:ASN:HB2	1:Z:687:GLN:O	2.20	0.40
1:Z:646:ILE:C	1:Z:647:LEU:HD12	2.46	0.40
1:a:289:CYS:SG	1:a:362:LEU:HD22	2.61	0.40
1:a:371:MET:C	1:a:372:VAL:O	2.62	0.40
1:e:550:THR:HG23	1:e:551:ASN:N	2.36	0.40
1:f:288:HIS:HD2	1:f:614:GLN:HA	1.84	0.40
1:f:526:HIS:CD2	1:f:531:GLU:H	2.39	0.40
1:f:646:ILE:C	1:f:647:LEU:HD12	2.46	0.40
1:g:243:SER:HB2	1:g:245:ARG:NH1	2.22	0.40
1:g:526:HIS:CD2	1:g:531:GLU:H	2.39	0.40
1:j:617:ILE:HD13	1:j:617:ILE:HG21	1.85	0.40
1:k:289:CYS:SG	1:k:362:LEU:HD22	2.61	0.40
1:k:437:LEU:HD23	1:k:437:LEU:HA	1.89	0.40
1:l:514:ASP:N	1:l:514:ASP:OD1	2.53	0.40
1:m:286:ARG:HG3	1:m:361:CYS:SG	2.61	0.40
1:m:429:SER:OG	1:m:431:ASP:OD1	2.23	0.40
1:n:514:ASP:N	1:n:514:ASP:OD1	2.53	0.40
1:n:518:ASN:N	1:n:519:PRO:CD	2.82	0.40
1:q:303:ASN:HB2	1:q:687:GLN:O	2.20	0.40
1:q:416:GLU:OE1	1:q:416:GLU:CA	2.70	0.40
1:q:417:ASP:O	1:q:418:VAL:HB	2.21	0.40
1:q:550:THR:HG23	1:q:551:ASN:N	2.36	0.40
1:q:618:TRP:CD1	1:q:618:TRP:C	2.98	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:r:289:CYS:SG	1:r:362:LEU:HD22	2.61	0.40
1:r:303:ASN:HB2	1:r:687:GLN:O	2.20	0.40
1:s:433:LEU:HD12	1:s:433:LEU:HA	1.84	0.40
1:s:550:THR:HG23	1:s:551:ASN:N	2.36	0.40
1:s:646:ILE:C	1:s:647:LEU:HD12	2.46	0.40
1:v:646:ILE:C	1:v:647:LEU:HD12	2.46	0.40
1:x:314:LYS:CB	1:x:410:THR:HG22	2.48	0.40
1:x:349:GLN:NE2	1:x:349:GLN:CA	2.73	0.40
1:x:439:ASP:OD1	1:x:439:ASP:N	2.51	0.40
1:x:463:SER:HG	1:7:551:ASN:ND2	2.19	0.40
1:x:514:ASP:OD1	1:x:514:ASP:N	2.53	0.40
1:y:249:LEU:HD22	1:y:648:ILE:HG23	2.02	0.40
1:y:598:GLN:HG3	1:y:599:GLY:O	2.21	0.40
1:1:550:THR:HG23	1:1:551:ASN:N	2.36	0.40
1:3:371:MET:C	1:3:372:VAL:O	2.62	0.40
1:3:646:ILE:C	1:3:647:LEU:HD12	2.46	0.40
1:4:314:LYS:CB	1:4:410:THR:HG22	2.48	0.40
1:4:583:LEU:HD13	1:6:487:ARG:NE	2.36	0.40
1:4:646:ILE:C	1:4:647:LEU:HD12	2.46	0.40
1:5:249:LEU:HD22	1:5:648:ILE:HG23	2.02	0.40
1:6:286:ARG:HG3	1:6:361:CYS:SG	2.62	0.40
1:7:526:HIS:CD2	1:7:531:GLU:H	2.39	0.40
1:A:349:GLN:HG3	1:3:692:LYS:HD3	2.03	0.40
1:A:550:THR:HG23	1:A:551:ASN:N	2.36	0.40
1:C:692:LYS:HD3	1:5:349:GLN:HG3	2.03	0.40
1:D:518:ASN:N	1:D:519:PRO:CD	2.82	0.40
1:E:441:TYR:C	1:E:442:LEU:HD12	2.47	0.40
1:E:443:TYR:HB3	1:E:462:PHE:HB3	2.03	0.40
1:F:429:SER:HA	1:F:567:THR:HB	2.02	0.40
1:F:520:GLY:O	1:F:633:LEU:CG	2.69	0.40
1:G:393:TYR:CD2	1:G:393:TYR:N	2.90	0.40
1:I:285:ASN:O	1:I:617:ILE:HG23	2.21	0.40
1:I:417:ASP:O	1:I:418:VAL:HB	2.21	0.40
1:I:646:ILE:C	1:I:647:LEU:HD12	2.46	0.40
1:J:520:GLY:O	1:J:633:LEU:CG	2.69	0.40
1:J:526:HIS:CD2	1:J:531:GLU:H	2.39	0.40
1:K:286:ARG:HG3	1:K:361:CYS:SG	2.61	0.40
1:K:550:THR:HG23	1:K:551:ASN:N	2.36	0.40
1:K:583:LEU:HD13	1:W:487:ARG:NE	2.36	0.40
1:K:646:ILE:C	1:K:647:LEU:HD12	2.46	0.40
1:L:487:ARG:NE	1:Y:583:LEU:HD13	2.36	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:286:ARG:HG3	1:M:361:CYS:SG	2.62	0.40
1:N:393:TYR:CD2	1:N:393:TYR:N	2.90	0.40
1:N:441:TYR:C	1:N:442:LEU:HD12	2.47	0.40
1:Q:289:CYS:SG	1:Q:362:LEU:HD22	2.61	0.40
1:Q:514:ASP:OD1	1:Q:514:ASP:N	2.53	0.40
1:Q:526:HIS:CD2	1:Q:531:GLU:H	2.38	0.40
1:R:416:GLU:OE1	1:R:416:GLU:CA	2.70	0.40
1:R:417:ASP:O	1:R:418:VAL:HB	2.21	0.40
1:U:416:GLU:OE1	1:U:416:GLU:CA	2.70	0.40
1:V:289:CYS:SG	1:V:362:LEU:HD22	2.61	0.40
1:V:476:ASN:HB2	1:V:477:TRP:CD1	2.57	0.40
1:W:285:ASN:O	1:W:617:ILE:HG23	2.21	0.40
1:W:286:ARG:HG3	1:W:361:CYS:SG	2.62	0.40
1:W:303:ASN:HB2	1:W:687:GLN:O	2.20	0.40
1:W:646:ILE:C	1:W:647:LEU:HD12	2.46	0.40
1:X:349:GLN:HG3	1:l:692:LYS:HD3	2.03	0.40
1:Y:289:CYS:SG	1:Y:362:LEU:HD22	2.61	0.40
1:Z:342:VAL:HG11	1:Z:409:PHE:CZ	2.57	0.40
1:Z:348:TYR:H	1:Z:348:TYR:HD2	1.65	0.40
1:a:550:THR:HG23	1:a:551:ASN:N	2.36	0.40
1:a:692:LYS:HB3	1:v:398:PHE:HE1	1.85	0.40
1:b:395:LEU:H	1:b:395:LEU:HG	1.48	0.40
1:b:526:HIS:CD2	1:b:531:GLU:H	2.39	0.40
1:b:646:ILE:C	1:b:647:LEU:HD12	2.46	0.40
1:c:303:ASN:HB2	1:c:687:GLN:O	2.20	0.40
1:c:398:PHE:HE1	1:v:692:LYS:HB3	1.85	0.40
1:c:550:THR:HG23	1:c:551:ASN:N	2.36	0.40
1:d:441:TYR:C	1:d:442:LEU:HD12	2.47	0.40
1:d:514:ASP:N	1:d:514:ASP:OD1	2.53	0.40
1:d:518:ASN:N	1:d:519:PRO:CD	2.82	0.40
1:e:303:ASN:HB2	1:e:687:GLN:O	2.20	0.40
1:g:286:ARG:HG3	1:g:361:CYS:SG	2.61	0.40
1:i:417:ASP:O	1:i:418:VAL:HB	2.21	0.40
1:i:441:TYR:C	1:i:442:LEU:HD12	2.47	0.40
1:j:249:LEU:HD22	1:j:648:ILE:HG23	2.02	0.40
1:j:417:ASP:O	1:j:418:VAL:HB	2.21	0.40
1:k:518:ASN:N	1:k:519:PRO:CD	2.82	0.40
1:m:285:ASN:O	1:m:617:ILE:HG23	2.21	0.40
1:p:289:CYS:SG	1:p:362:LEU:HD22	2.61	0.40
1:p:417:ASP:O	1:p:418:VAL:HB	2.21	0.40
1:r:427:SER:HB3	1:r:734:ASN:HA	2.03	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:s:416:GLU:OE1	1:s:416:GLU:CA	2.70	0.40
1:t:365:PHE:HA	1:t:366:PRO:HD3	1.91	0.40
1:t:393:TYR:CD2	1:t:393:TYR:N	2.90	0.40
1:t:417:ASP:O	1:t:418:VAL:HB	2.21	0.40
1:u:249:LEU:HD22	1:u:648:ILE:HG23	2.02	0.40
1:u:417:ASP:O	1:u:418:VAL:HB	2.21	0.40
1:u:646:ILE:C	1:u:647:LEU:HD12	2.46	0.40
1:w:342:VAL:HG11	1:w:409:PHE:CZ	2.57	0.40
1:x:289:CYS:SG	1:x:362:LEU:HD22	2.61	0.40
1:x:443:TYR:HB3	1:x:462:PHE:HB3	2.04	0.40
1:y:429:SER:HA	1:y:567:THR:HB	2.02	0.40
1:z:398:PHE:HE1	1:7:692:LYS:HB3	1.85	0.40
1:1:443:TYR:HB3	1:1:462:PHE:HB3	2.03	0.40
1:1:646:ILE:C	1:1:647:LEU:HD12	2.46	0.40
1:2:441:TYR:C	1:2:442:LEU:HD12	2.47	0.40
1:2:520:GLY:O	1:2:633:LEU:CG	2.69	0.40
1:3:283:ASP:O	1:3:361:CYS:HA	2.20	0.40
1:3:417:ASP:O	1:3:418:VAL:HB	2.21	0.40
1:3:443:TYR:HB3	1:3:462:PHE:HB3	2.03	0.40
1:4:427:SER:HB3	1:4:734:ASN:HA	2.02	0.40
1:6:285:ASN:O	1:6:617:ILE:HG23	2.21	0.40
1:6:417:ASP:O	1:6:418:VAL:HB	2.21	0.40
1:7:598:GLN:HG3	1:7:599:GLY:O	2.21	0.40
1:8:303:ASN:HB2	1:8:687:GLN:O	2.20	0.40
1:8:646:ILE:C	1:8:647:LEU:HD12	2.46	0.40
1:A:286:ARG:HG3	1:A:361:CYS:SG	2.62	0.40
1:A:692:LYS:HD3	1:e:349:GLN:HG3	2.04	0.40
1:A:692:LYS:HB3	1:e:398:PHE:HE1	1.85	0.40
1:B:443:TYR:HB3	1:B:462:PHE:HB3	2.03	0.40
1:B:476:ASN:HB2	1:B:477:TRP:CD1	2.57	0.40
1:B:646:ILE:C	1:B:647:LEU:HD12	2.46	0.40
1:C:286:ARG:HG3	1:C:361:CYS:SG	2.62	0.40
1:C:443:TYR:HB3	1:C:462:PHE:HB3	2.03	0.40
1:D:302:ASN:HD21	1:n:302:ASN:ND2	2.09	0.40
1:D:371:MET:C	1:D:372:VAL:O	2.62	0.40
1:D:441:TYR:C	1:D:442:LEU:HD12	2.47	0.40
1:E:286:ARG:HG3	1:E:361:CYS:SG	2.61	0.40
1:E:342:VAL:HG11	1:E:409:PHE:CZ	2.57	0.40
1:E:476:ASN:HB2	1:E:477:TRP:CD1	2.57	0.40
1:F:286:ARG:HG3	1:F:361:CYS:SG	2.62	0.40
1:G:289:CYS:SG	1:G:362:LEU:HD22	2.61	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:349:GLN:HG3	1:g:692:LYS:HD3	2.03	0.40
1:H:393:TYR:CD2	1:H:393:TYR:N	2.90	0.40
1:I:348:TYR:H	1:I:348:TYR:HD2	1.65	0.40
1:I:427:SER:HB3	1:I:734:ASN:HA	2.03	0.40
1:J:433:LEU:HD12	1:J:433:LEU:HA	1.84	0.40
1:J:441:TYR:C	1:J:442:LEU:HD12	2.47	0.40
1:J:443:TYR:HB3	1:J:462:PHE:HB3	2.03	0.40
1:K:289:CYS:SG	1:K:362:LEU:HD22	2.61	0.40
1:K:314:LYS:CB	1:K:410:THR:HG22	2.48	0.40
1:M:314:LYS:CB	1:M:410:THR:HG22	2.48	0.40
1:M:371:MET:C	1:M:372:VAL:O	2.62	0.40
1:M:397:TYR:HE2	1:8:692:LYS:HZ1	1.67	0.40
1:N:417:ASP:O	1:N:418:VAL:HB	2.21	0.40
1:N:550:THR:HG23	1:N:551:ASN:N	2.36	0.40
1:O:393:TYR:CD2	1:O:393:TYR:N	2.90	0.40
1:P:249:LEU:HD22	1:P:648:ILE:HG23	2.02	0.40
1:P:309:LYS:HA	1:P:309:LYS:HD2	1.92	0.40
1:P:646:ILE:C	1:P:647:LEU:HD12	2.46	0.40
1:R:303:ASN:HB2	1:R:687:GLN:O	2.20	0.40
1:R:443:TYR:HB3	1:R:462:PHE:HB3	2.03	0.40
1:S:427:SER:HB3	1:S:734:ASN:HA	2.03	0.40
1:S:476:ASN:HB2	1:S:477:TRP:CD1	2.57	0.40
1:T:476:ASN:HB2	1:T:477:TRP:CD1	2.57	0.40
1:U:441:TYR:C	1:U:442:LEU:HD12	2.47	0.40
1:U:476:ASN:HB2	1:U:477:TRP:CD1	2.57	0.40
1:V:417:ASP:O	1:V:418:VAL:HB	2.21	0.40
1:W:476:ASN:HB2	1:W:477:TRP:CD1	2.57	0.40
1:X:476:ASN:HB2	1:X:477:TRP:CD1	2.57	0.40
1:Y:416:GLU:OE1	1:Y:416:GLU:CA	2.70	0.40
1:a:283:ASP:O	1:a:361:CYS:HA	2.20	0.40
1:a:417:ASP:O	1:a:418:VAL:HB	2.21	0.40
1:a:476:ASN:HB2	1:a:477:TRP:CD1	2.57	0.40
1:c:349:GLN:HG3	1:v:692:LYS:HD3	2.04	0.40
1:c:367:ALA:HB2	1:r:257:TYR:HE2	1.85	0.40
1:d:443:TYR:HB3	1:d:462:PHE:HB3	2.04	0.40
1:f:483:TYR:HA	1:f:597:THR:HG23	2.04	0.40
1:g:429:SER:HA	1:g:567:THR:HB	2.02	0.40
1:g:443:TYR:HB3	1:g:462:PHE:HB3	2.03	0.40
1:g:646:ILE:C	1:g:647:LEU:HD12	2.46	0.40
1:h:286:ARG:HG3	1:h:361:CYS:SG	2.62	0.40
1:h:314:LYS:CB	1:h:410:THR:HG22	2.48	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:i:393:TYR:CD2	1:i:393:TYR:N	2.90	0.40
1:j:646:ILE:C	1:j:647:LEU:HD12	2.46	0.40
1:k:371:MET:C	1:k:372:VAL:O	2.62	0.40
1:k:441:TYR:C	1:k:442:LEU:HD12	2.47	0.40
1:k:565:ILE:HD12	1:k:565:ILE:HG23	1.88	0.40
1:l:393:TYR:CD2	1:l:393:TYR:N	2.90	0.40
1:m:476:ASN:HB2	1:m:477:TRP:CD1	2.57	0.40
1:n:441:TYR:C	1:n:442:LEU:HD12	2.47	0.40
1:n:443:TYR:HB3	1:n:462:PHE:HB3	2.03	0.40
1:o:476:ASN:HB2	1:o:477:TRP:CD1	2.57	0.40
1:p:476:ASN:HB2	1:p:477:TRP:CD1	2.57	0.40
1:p:646:ILE:C	1:p:647:LEU:HD12	2.46	0.40
1:q:286:ARG:HG3	1:q:361:CYS:SG	2.62	0.40
1:q:443:TYR:HB3	1:q:462:PHE:HB3	2.03	0.40
1:q:598:GLN:HG3	1:q:599:GLY:O	2.21	0.40
1:r:476:ASN:HB2	1:r:477:TRP:CD1	2.57	0.40
1:t:253:ASN:O	1:t:254:ASN:C	2.63	0.40
1:t:348:TYR:H	1:t:348:TYR:HD2	1.65	0.40
1:t:483:TYR:HA	1:t:597:THR:HG23	2.04	0.40
1:u:285:ASN:O	1:u:617:ILE:HG23	2.21	0.40
1:u:286:ARG:HG3	1:u:361:CYS:SG	2.62	0.40
1:u:617:ILE:HD13	1:u:617:ILE:HG21	1.85	0.40
1:v:286:ARG:HG3	1:v:361:CYS:SG	2.62	0.40
1:w:416:GLU:OE1	1:w:416:GLU:CA	2.70	0.40
1:w:441:TYR:C	1:w:442:LEU:HD12	2.47	0.40
1:w:520:GLY:O	1:w:633:LEU:CG	2.69	0.40
1:y:286:ARG:HG3	1:y:361:CYS:SG	2.62	0.40
1:z:443:TYR:HB3	1:z:462:PHE:HB3	2.03	0.40
1:z:487:ARG:NE	1:7:583:LEU:HD13	2.36	0.40
1:2:443:TYR:HB3	1:2:462:PHE:HB3	2.03	0.40
1:2:617:ILE:HG21	1:2:617:ILE:HD13	1.85	0.40
1:3:249:LEU:HD22	1:3:648:ILE:HG23	2.02	0.40
1:3:289:CYS:SG	1:3:362:LEU:HD22	2.61	0.40
1:3:441:TYR:C	1:3:442:LEU:HD12	2.47	0.40
1:3:476:ASN:HB2	1:3:477:TRP:CD1	2.57	0.40
1:3:550:THR:HG23	1:3:551:ASN:N	2.36	0.40
1:3:617:ILE:HG21	1:3:617:ILE:HD13	1.85	0.40
1:4:286:ARG:HG3	1:4:361:CYS:SG	2.62	0.40
1:5:393:TYR:CD2	1:5:393:TYR:N	2.90	0.40
1:5:640:LYS:HE3	1:5:640:LYS:HB3	1.90	0.40
1:5:646:ILE:C	1:5:647:LEU:HD12	2.46	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:6:249:LEU:HD22	1:6:648:ILE:HG23	2.02	0.40
1:6:303:ASN:HB2	1:6:687:GLN:O	2.20	0.40
1:6:348:TYR:H	1:6:348:TYR:HD2	1.65	0.40
1:6:443:TYR:HB3	1:6:462:PHE:HB3	2.04	0.40
1:6:476:ASN:HB2	1:6:477:TRP:CD1	2.57	0.40
1:6:646:ILE:C	1:6:647:LEU:HD12	2.46	0.40
1:7:289:CYS:SG	1:7:362:LEU:HD22	2.61	0.40
1:8:342:VAL:HG11	1:8:409:PHE:CZ	2.57	0.40
1:B:313:PHE:CE2	1:B:646:ILE:HD13	2.57	0.40
1:B:598:GLN:HG3	1:B:599:GLY:O	2.21	0.40
1:B:688:LYS:HA	1:B:688:LYS:HD2	1.91	0.40
1:D:349:GLN:HG3	1:T:692:LYS:HD3	2.03	0.40
1:F:253:ASN:O	1:F:254:ASN:C	2.63	0.40
1:F:692:LYS:HD3	1:b:349:GLN:HG3	2.04	0.40
1:G:253:ASN:O	1:G:254:ASN:C	2.63	0.40
1:G:483:TYR:HA	1:G:597:THR:HG23	2.04	0.40
1:H:304:TRP:C	1:H:423:SER:HB3	2.47	0.40
1:H:646:ILE:C	1:H:647:LEU:HD12	2.46	0.40
1:I:286:ARG:HG3	1:I:361:CYS:SG	2.61	0.40
1:I:443:TYR:HB3	1:I:462:PHE:HB3	2.03	0.40
1:I:514:ASP:OD1	1:I:514:ASP:N	2.53	0.40
1:L:313:PHE:CE2	1:L:646:ILE:HD13	2.57	0.40
1:L:349:GLN:NE2	1:L:349:GLN:CA	2.73	0.40
1:L:476:ASN:HB2	1:L:477:TRP:CD1	2.57	0.40
1:L:646:ILE:C	1:L:647:LEU:HD12	2.46	0.40
1:M:441:TYR:C	1:M:442:LEU:HD12	2.47	0.40
1:N:304:TRP:C	1:N:423:SER:HB3	2.47	0.40
1:O:514:ASP:N	1:O:514:ASP:OD1	2.53	0.40
1:P:371:MET:C	1:P:372:VAL:O	2.62	0.40
1:P:416:GLU:OE1	1:P:416:GLU:CA	2.70	0.40
1:P:441:TYR:C	1:P:442:LEU:HD12	2.47	0.40
1:Q:286:ARG:HG3	1:Q:361:CYS:SG	2.61	0.40
1:Q:550:THR:HG23	1:Q:551:ASN:N	2.36	0.40
1:R:286:ARG:HG3	1:R:361:CYS:SG	2.62	0.40
1:R:441:TYR:C	1:R:442:LEU:HD12	2.47	0.40
1:S:257:TYR:HE2	1:e:367:ALA:HB2	1.85	0.40
1:S:417:ASP:O	1:S:418:VAL:HB	2.21	0.40
1:T:342:VAL:HG11	1:T:409:PHE:CZ	2.57	0.40
1:T:371:MET:C	1:T:372:VAL:O	2.62	0.40
1:V:646:ILE:C	1:V:647:LEU:HD12	2.46	0.40
1:W:253:ASN:O	1:W:254:ASN:C	2.63	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:W:417:ASP:O	1:W:418:VAL:HB	2.21	0.40
1:W:483:TYR:HA	1:W:597:THR:HG23	2.04	0.40
1:X:304:TRP:C	1:X:423:SER:HB3	2.47	0.40
1:Z:692:LYS:HZ1	1:h:397:TYR:HE2	1.68	0.40
1:a:249:LEU:HD22	1:a:648:ILE:HG23	2.02	0.40
1:a:395:LEU:H	1:a:395:LEU:HG	1.48	0.40
1:a:441:TYR:C	1:a:442:LEU:HD12	2.47	0.40
1:a:443:TYR:HB3	1:a:462:PHE:HB3	2.04	0.40
1:b:342:VAL:HG11	1:b:409:PHE:CZ	2.57	0.40
1:d:483:TYR:HA	1:d:597:THR:HG23	2.04	0.40
1:f:342:VAL:HG11	1:f:409:PHE:CZ	2.57	0.40
1:f:349:GLN:HG3	1:y:692:LYS:HD3	2.03	0.40
1:f:371:MET:C	1:f:372:VAL:O	2.62	0.40
1:f:550:THR:HG23	1:f:551:ASN:N	2.36	0.40
1:h:371:MET:C	1:h:372:VAL:O	2.62	0.40
1:i:550:THR:HG23	1:i:551:ASN:N	2.36	0.40
1:j:416:GLU:OE1	1:j:416:GLU:CA	2.70	0.40
1:j:441:TYR:C	1:j:442:LEU:HD12	2.47	0.40
1:j:550:THR:HG23	1:j:551:ASN:N	2.36	0.40
1:m:342:VAL:HG11	1:m:409:PHE:CZ	2.57	0.40
1:m:565:ILE:HD12	1:m:565:ILE:HG23	1.88	0.40
1:n:371:MET:C	1:n:372:VAL:O	2.62	0.40
1:n:483:TYR:HA	1:n:597:THR:HG23	2.04	0.40
1:o:286:ARG:HG3	1:o:361:CYS:SG	2.62	0.40
1:o:304:TRP:C	1:o:423:SER:HB3	2.47	0.40
1:o:526:HIS:CD2	1:o:531:GLU:H	2.39	0.40
1:o:695:ASN:HD21	1:r:710:VAL:HG11	1.86	0.40
1:p:441:TYR:C	1:p:442:LEU:HD12	2.47	0.40
1:q:289:CYS:SG	1:q:362:LEU:HD22	2.61	0.40
1:q:441:TYR:C	1:q:442:LEU:HD12	2.47	0.40
1:s:441:TYR:C	1:s:442:LEU:HD12	2.47	0.40
1:t:257:TYR:HE2	1:2:367:ALA:HB2	1.86	0.40
1:t:427:SER:HB3	1:t:734:ASN:HA	2.03	0.40
1:u:443:TYR:HB3	1:u:462:PHE:HB3	2.04	0.40
1:u:526:HIS:CD2	1:u:531:GLU:H	2.39	0.40
1:v:550:THR:HG23	1:v:551:ASN:N	2.36	0.40
1:w:476:ASN:HB2	1:w:477:TRP:CD1	2.57	0.40
1:x:286:ARG:HG3	1:x:361:CYS:SG	2.62	0.40
1:x:526:HIS:CD2	1:x:531:GLU:H	2.39	0.40
1:y:253:ASN:O	1:y:254:ASN:C	2.63	0.40
1:y:342:VAL:HG11	1:y:409:PHE:CZ	2.57	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:y:520:GLY:O	1:y:633:LEU:CG	2.69	0.40
1:z:313:PHE:CE2	1:z:646:ILE:HD13	2.57	0.40
1:z:476:ASN:HB2	1:z:477:TRP:CD1	2.57	0.40
1:2:514:ASP:OD1	1:2:514:ASP:N	2.52	0.40
1:3:520:GLY:O	1:3:633:LEU:CG	2.69	0.40
1:4:289:CYS:SG	1:4:362:LEU:HD22	2.61	0.40
1:4:441:TYR:C	1:4:442:LEU:HD12	2.47	0.40
1:5:304:TRP:C	1:5:423:SER:HB3	2.47	0.40
1:5:441:TYR:C	1:5:442:LEU:HD12	2.47	0.40
1:5:443:TYR:HB3	1:5:462:PHE:HB3	2.03	0.40
1:5:617:ILE:HG21	1:5:617:ILE:HD13	1.85	0.40
1:7:342:VAL:HG11	1:7:409:PHE:CZ	2.57	0.40
1:7:416:GLU:OE1	1:7:416:GLU:CA	2.70	0.40
1:8:289:CYS:SG	1:8:362:LEU:HD22	2.61	0.40
1:A:393:TYR:CD2	1:A:393:TYR:N	2.90	0.40
1:B:393:TYR:CD2	1:B:393:TYR:N	2.90	0.40
1:C:313:PHE:CE2	1:C:646:ILE:HD13	2.57	0.40
1:D:417:ASP:O	1:D:418:VAL:HB	2.21	0.40
1:E:520:GLY:O	1:E:633:LEU:CG	2.69	0.40
1:F:342:VAL:HG11	1:F:409:PHE:CZ	2.57	0.40
1:F:393:TYR:CD2	1:F:393:TYR:N	2.90	0.40
1:G:348:TYR:H	1:G:348:TYR:HD2	1.65	0.40
1:G:427:SER:HB3	1:G:734:ASN:HA	2.03	0.40
1:H:441:TYR:C	1:H:442:LEU:HD12	2.47	0.40
1:H:443:TYR:HB3	1:H:462:PHE:HB3	2.04	0.40
1:I:476:ASN:HB2	1:I:477:TRP:CD1	2.57	0.40
1:I:526:HIS:CE1	1:I:563:GLU:HB3	2.57	0.40
1:I:526:HIS:CD2	1:I:531:GLU:H	2.39	0.40
1:K:416:GLU:OE1	1:K:416:GLU:CA	2.70	0.40
1:L:253:ASN:O	1:L:254:ASN:C	2.63	0.40
1:L:443:TYR:HB3	1:L:462:PHE:HB3	2.03	0.40
1:M:304:TRP:C	1:M:423:SER:HB3	2.47	0.40
1:M:349:GLN:HG3	1:8:692:LYS:HD3	2.03	0.40
1:M:526:HIS:CD2	1:M:531:GLU:H	2.39	0.40
1:M:551:ASN:ND2	1:8:463:SER:HG	2.18	0.40
1:N:463:SER:HG	1:U:551:ASN:ND2	2.19	0.40
1:N:520:GLY:O	1:N:633:LEU:CG	2.69	0.40
1:O:304:TRP:C	1:O:423:SER:HB3	2.47	0.40
1:P:285:ASN:O	1:P:617:ILE:HG23	2.21	0.40
1:P:550:THR:HG23	1:P:551:ASN:N	2.36	0.40
1:Q:349:GLN:NE2	1:Q:349:GLN:CA	2.73	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Q:463:SER:HG	1:Y:551:ASN:ND2	2.20	0.40
1:Q:617:ILE:HG21	1:Q:617:ILE:HD13	1.85	0.40
1:R:289:CYS:SG	1:R:362:LEU:HD22	2.61	0.40
1:R:483:TYR:HA	1:R:597:THR:HG23	2.04	0.40
1:R:598:GLN:HG3	1:R:599:GLY:O	2.21	0.40
1:S:286:ARG:HG3	1:S:361:CYS:SG	2.61	0.40
1:V:441:TYR:C	1:V:442:LEU:HD12	2.47	0.40
1:W:350:LEU:CD2	1:W:398:PHE:HE2	2.35	0.40
1:X:286:ARG:HG3	1:X:361:CYS:SG	2.62	0.40
1:X:397:TYR:HE2	1:l:692:LYS:HZ1	1.68	0.40
1:X:487:ARG:NE	1:l:583:LEU:HD13	2.36	0.40
1:X:526:HIS:CD2	1:X:531:GLU:H	2.38	0.40
1:Y:286:ARG:HG3	1:Y:361:CYS:SG	2.62	0.40
1:Y:342:VAL:HG11	1:Y:409:PHE:CZ	2.57	0.40
1:Z:463:SER:HG	1:h:551:ASN:ND2	2.18	0.40
1:Z:692:LYS:HD3	1:h:349:GLN:HG3	2.03	0.40
1:a:342:VAL:HG11	1:a:409:PHE:CZ	2.57	0.40
1:a:692:LYS:HD3	1:v:349:GLN:HG3	2.03	0.40
1:b:483:TYR:HA	1:b:597:THR:HG23	2.04	0.40
1:b:550:THR:HG23	1:b:551:ASN:N	2.36	0.40
1:c:286:ARG:HG3	1:c:361:CYS:SG	2.62	0.40
1:c:393:TYR:CD2	1:c:393:TYR:N	2.90	0.40
1:d:289:CYS:SG	1:d:362:LEU:HD22	2.61	0.40
1:e:393:TYR:CD2	1:e:393:TYR:N	2.90	0.40
1:f:313:PHE:CE2	1:f:646:ILE:HD13	2.57	0.40
1:f:476:ASN:HB2	1:f:477:TRP:CD1	2.57	0.40
1:g:476:ASN:HB2	1:g:477:TRP:CD1	2.57	0.40
1:h:304:TRP:C	1:h:423:SER:HB3	2.47	0.40
1:h:427:SER:HB3	1:h:734:ASN:HA	2.03	0.40
1:h:526:HIS:CD2	1:h:531:GLU:H	2.38	0.40
1:i:304:TRP:C	1:i:423:SER:HB3	2.47	0.40
1:i:520:GLY:O	1:i:633:LEU:CG	2.69	0.40
1:j:371:MET:C	1:j:372:VAL:O	2.62	0.40
1:j:598:GLN:HG3	1:j:599:GLY:O	2.21	0.40
1:k:417:ASP:O	1:k:418:VAL:HB	2.21	0.40
1:k:483:TYR:HA	1:k:597:THR:HG23	2.04	0.40
1:l:304:TRP:C	1:l:423:SER:HB3	2.47	0.40
1:l:441:TYR:C	1:l:442:LEU:HD12	2.47	0.40
1:m:416:GLU:OE1	1:m:416:GLU:CA	2.70	0.40
1:n:286:ARG:HG3	1:n:361:CYS:SG	2.61	0.40
1:n:289:CYS:SG	1:n:362:LEU:HD22	2.61	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:n:342:VAL:HG11	1:n:409:PHE:CZ	2.57	0.40
1:o:583:LEU:HD13	1:w:487:ARG:NE	2.37	0.40
1:p:367:ALA:HB2	1:5:257:TYR:HE2	1.85	0.40
1:q:483:TYR:HA	1:q:597:THR:HG23	2.04	0.40
1:r:487:ARG:NE	1:5:583:LEU:HD13	2.36	0.40
1:s:476:ASN:HB2	1:s:477:TRP:CD1	2.57	0.40
1:u:427:SER:HB3	1:u:734:ASN:HA	2.03	0.40
1:w:286:ARG:HG3	1:w:361:CYS:SG	2.62	0.40
1:w:439:ASP:N	1:w:439:ASP:OD1	2.51	0.40
1:w:646:ILE:C	1:w:647:LEU:HD12	2.46	0.40
1:x:550:THR:HG23	1:x:551:ASN:N	2.36	0.40
1:y:393:TYR:CD2	1:y:393:TYR:N	2.90	0.40
1:z:646:ILE:C	1:z:647:LEU:HD12	2.46	0.40
1:1:313:PHE:CE2	1:1:646:ILE:HD13	2.57	0.40
1:1:393:TYR:CD2	1:1:393:TYR:N	2.90	0.40
1:1:416:GLU:OE1	1:1:416:GLU:CA	2.70	0.40
1:1:476:ASN:HB2	1:1:477:TRP:CD1	2.57	0.40
1:1:483:TYR:HA	1:1:597:THR:HG23	2.04	0.40
1:1:598:GLN:HG3	1:1:599:GLY:O	2.21	0.40
1:2:249:LEU:HD22	1:2:648:ILE:HG23	2.02	0.40
1:4:416:GLU:OE1	1:4:416:GLU:CA	2.70	0.40
1:5:433:LEU:HD12	1:5:433:LEU:HA	1.84	0.40
1:5:476:ASN:HB2	1:5:477:TRP:CD1	2.57	0.40
1:6:349:GLN:NE2	1:6:349:GLN:CA	2.73	0.40
1:8:476:ASN:HB2	1:8:477:TRP:CD1	2.57	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	498/500 (100%)	473 (95%)	21 (4%)	4 (1%)	16 46

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	2	498/500 (100%)	473 (95%)	21 (4%)	4 (1%)	16	46
1	3	498/500 (100%)	473 (95%)	21 (4%)	4 (1%)	16	46
1	4	498/500 (100%)	473 (95%)	21 (4%)	4 (1%)	16	46
1	5	498/500 (100%)	473 (95%)	21 (4%)	4 (1%)	16	46
1	6	498/500 (100%)	473 (95%)	21 (4%)	4 (1%)	16	46
1	7	498/500 (100%)	473 (95%)	21 (4%)	4 (1%)	16	46
1	8	498/500 (100%)	473 (95%)	21 (4%)	4 (1%)	16	46
1	A	498/500 (100%)	473 (95%)	21 (4%)	4 (1%)	16	46
1	B	498/500 (100%)	473 (95%)	21 (4%)	4 (1%)	16	46
1	C	498/500 (100%)	473 (95%)	21 (4%)	4 (1%)	16	46
1	D	498/500 (100%)	473 (95%)	21 (4%)	4 (1%)	16	46
1	E	498/500 (100%)	473 (95%)	21 (4%)	4 (1%)	16	46
1	F	498/500 (100%)	473 (95%)	21 (4%)	4 (1%)	16	46
1	G	498/500 (100%)	473 (95%)	21 (4%)	4 (1%)	16	46
1	H	498/500 (100%)	473 (95%)	21 (4%)	4 (1%)	16	46
1	I	498/500 (100%)	473 (95%)	21 (4%)	4 (1%)	16	46
1	J	498/500 (100%)	473 (95%)	21 (4%)	4 (1%)	16	46
1	K	498/500 (100%)	473 (95%)	21 (4%)	4 (1%)	16	46
1	L	498/500 (100%)	473 (95%)	21 (4%)	4 (1%)	16	46
1	M	498/500 (100%)	473 (95%)	21 (4%)	4 (1%)	16	46
1	N	498/500 (100%)	473 (95%)	21 (4%)	4 (1%)	16	46
1	O	498/500 (100%)	473 (95%)	21 (4%)	4 (1%)	16	46
1	P	498/500 (100%)	473 (95%)	21 (4%)	4 (1%)	16	46
1	Q	498/500 (100%)	473 (95%)	21 (4%)	4 (1%)	16	46
1	R	498/500 (100%)	473 (95%)	21 (4%)	4 (1%)	16	46
1	S	498/500 (100%)	473 (95%)	21 (4%)	4 (1%)	16	46
1	T	498/500 (100%)	473 (95%)	21 (4%)	4 (1%)	16	46
1	U	498/500 (100%)	473 (95%)	21 (4%)	4 (1%)	16	46
1	V	498/500 (100%)	473 (95%)	21 (4%)	4 (1%)	16	46
1	W	498/500 (100%)	473 (95%)	21 (4%)	4 (1%)	16	46
1	X	498/500 (100%)	473 (95%)	21 (4%)	4 (1%)	16	46

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	Y	498/500 (100%)	473 (95%)	21 (4%)	4 (1%)	16	46
1	Z	498/500 (100%)	473 (95%)	21 (4%)	4 (1%)	16	46
1	a	498/500 (100%)	473 (95%)	21 (4%)	4 (1%)	16	46
1	b	498/500 (100%)	473 (95%)	21 (4%)	4 (1%)	16	46
1	c	498/500 (100%)	473 (95%)	21 (4%)	4 (1%)	16	46
1	d	498/500 (100%)	473 (95%)	21 (4%)	4 (1%)	16	46
1	e	498/500 (100%)	473 (95%)	21 (4%)	4 (1%)	16	46
1	f	498/500 (100%)	473 (95%)	21 (4%)	4 (1%)	16	46
1	g	498/500 (100%)	473 (95%)	21 (4%)	4 (1%)	16	46
1	h	498/500 (100%)	473 (95%)	21 (4%)	4 (1%)	16	46
1	i	498/500 (100%)	473 (95%)	21 (4%)	4 (1%)	16	46
1	j	498/500 (100%)	473 (95%)	21 (4%)	4 (1%)	16	46
1	k	498/500 (100%)	473 (95%)	21 (4%)	4 (1%)	16	46
1	l	498/500 (100%)	473 (95%)	21 (4%)	4 (1%)	16	46
1	m	498/500 (100%)	473 (95%)	21 (4%)	4 (1%)	16	46
1	n	498/500 (100%)	473 (95%)	21 (4%)	4 (1%)	16	46
1	o	498/500 (100%)	473 (95%)	21 (4%)	4 (1%)	16	46
1	p	498/500 (100%)	473 (95%)	21 (4%)	4 (1%)	16	46
1	q	498/500 (100%)	473 (95%)	21 (4%)	4 (1%)	16	46
1	r	498/500 (100%)	473 (95%)	21 (4%)	4 (1%)	16	46
1	s	498/500 (100%)	473 (95%)	21 (4%)	4 (1%)	16	46
1	t	498/500 (100%)	473 (95%)	21 (4%)	4 (1%)	16	46
1	u	498/500 (100%)	473 (95%)	21 (4%)	4 (1%)	16	46
1	v	498/500 (100%)	473 (95%)	21 (4%)	4 (1%)	16	46
1	w	498/500 (100%)	473 (95%)	21 (4%)	4 (1%)	16	46
1	x	498/500 (100%)	473 (95%)	21 (4%)	4 (1%)	16	46
1	y	498/500 (100%)	473 (95%)	21 (4%)	4 (1%)	16	46
1	z	498/500 (100%)	473 (95%)	21 (4%)	4 (1%)	16	46
All	All	29880/30000 (100%)	28380 (95%)	1260 (4%)	240 (1%)	18	46

All (240) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	A	395	LEU
1	B	395	LEU
1	C	395	LEU
1	D	395	LEU
1	E	395	LEU
1	F	395	LEU
1	G	395	LEU
1	H	395	LEU
1	I	395	LEU
1	J	395	LEU
1	K	395	LEU
1	L	395	LEU
1	M	395	LEU
1	N	395	LEU
1	O	395	LEU
1	P	395	LEU
1	Q	395	LEU
1	R	395	LEU
1	S	395	LEU
1	T	395	LEU
1	U	395	LEU
1	V	395	LEU
1	W	395	LEU
1	X	395	LEU
1	Y	395	LEU
1	Z	395	LEU
1	a	395	LEU
1	b	395	LEU
1	c	395	LEU
1	d	395	LEU
1	e	395	LEU
1	f	395	LEU
1	g	395	LEU
1	h	395	LEU
1	i	395	LEU
1	j	395	LEU
1	k	395	LEU
1	l	395	LEU
1	m	395	LEU
1	n	395	LEU
1	o	395	LEU
1	p	395	LEU
1	q	395	LEU

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Mol	Chain	Res	Type
1	r	395	LEU
1	s	395	LEU
1	t	395	LEU
1	u	395	LEU
1	v	395	LEU
1	w	395	LEU
1	x	395	LEU
1	y	395	LEU
1	z	395	LEU
1	1	395	LEU
1	2	395	LEU
1	3	395	LEU
1	4	395	LEU
1	5	395	LEU
1	6	395	LEU
1	7	395	LEU
1	8	395	LEU
1	A	387	VAL
1	A	394	CYS
1	B	387	VAL
1	B	394	CYS
1	C	387	VAL
1	C	394	CYS
1	D	387	VAL
1	D	394	CYS
1	E	387	VAL
1	E	394	CYS
1	F	387	VAL
1	F	394	CYS
1	G	387	VAL
1	G	394	CYS
1	H	387	VAL
1	H	394	CYS
1	I	387	VAL
1	I	394	CYS
1	J	387	VAL
1	J	394	CYS
1	K	387	VAL
1	K	394	CYS
1	L	387	VAL
1	L	394	CYS
1	M	387	VAL

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Mol	Chain	Res	Type
1	M	394	CYS
1	N	387	VAL
1	N	394	CYS
1	O	387	VAL
1	O	394	CYS
1	P	387	VAL
1	P	394	CYS
1	Q	387	VAL
1	Q	394	CYS
1	R	387	VAL
1	R	394	CYS
1	S	387	VAL
1	S	394	CYS
1	T	387	VAL
1	T	394	CYS
1	U	387	VAL
1	U	394	CYS
1	V	387	VAL
1	V	394	CYS
1	W	387	VAL
1	W	394	CYS
1	X	387	VAL
1	X	394	CYS
1	Y	387	VAL
1	Y	394	CYS
1	Z	387	VAL
1	Z	394	CYS
1	a	387	VAL
1	a	394	CYS
1	b	387	VAL
1	b	394	CYS
1	c	387	VAL
1	c	394	CYS
1	d	387	VAL
1	d	394	CYS
1	e	387	VAL
1	e	394	CYS
1	f	387	VAL
1	f	394	CYS
1	g	387	VAL
1	g	394	CYS
1	h	387	VAL

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Mol	Chain	Res	Type
1	h	394	CYS
1	i	387	VAL
1	i	394	CYS
1	j	387	VAL
1	j	394	CYS
1	k	387	VAL
1	k	394	CYS
1	l	387	VAL
1	l	394	CYS
1	m	387	VAL
1	m	394	CYS
1	n	387	VAL
1	n	394	CYS
1	o	387	VAL
1	o	394	CYS
1	p	387	VAL
1	p	394	CYS
1	q	387	VAL
1	q	394	CYS
1	r	387	VAL
1	r	394	CYS
1	s	387	VAL
1	s	394	CYS
1	t	387	VAL
1	t	394	CYS
1	u	387	VAL
1	u	394	CYS
1	v	387	VAL
1	v	394	CYS
1	w	387	VAL
1	w	394	CYS
1	x	387	VAL
1	x	394	CYS
1	y	387	VAL
1	y	394	CYS
1	z	387	VAL
1	z	394	CYS
1	1	387	VAL
1	1	394	CYS
1	2	387	VAL
1	2	394	CYS
1	3	387	VAL

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Mol	Chain	Res	Type
1	3	394	CYS
1	4	387	VAL
1	4	394	CYS
1	5	387	VAL
1	5	394	CYS
1	6	387	VAL
1	6	394	CYS
1	7	387	VAL
1	7	394	CYS
1	8	387	VAL
1	8	394	CYS
1	A	521	PRO
1	B	521	PRO
1	C	521	PRO
1	D	521	PRO
1	E	521	PRO
1	F	521	PRO
1	G	521	PRO
1	H	521	PRO
1	I	521	PRO
1	J	521	PRO
1	K	521	PRO
1	L	521	PRO
1	M	521	PRO
1	N	521	PRO
1	O	521	PRO
1	P	521	PRO
1	Q	521	PRO
1	R	521	PRO
1	S	521	PRO
1	T	521	PRO
1	U	521	PRO
1	V	521	PRO
1	W	521	PRO
1	X	521	PRO
1	Y	521	PRO
1	Z	521	PRO
1	a	521	PRO
1	b	521	PRO
1	c	521	PRO
1	d	521	PRO
1	e	521	PRO

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Mol	Chain	Res	Type
1	f	521	PRO
1	g	521	PRO
1	h	521	PRO
1	i	521	PRO
1	j	521	PRO
1	k	521	PRO
1	l	521	PRO
1	m	521	PRO
1	n	521	PRO
1	o	521	PRO
1	p	521	PRO
1	q	521	PRO
1	r	521	PRO
1	s	521	PRO
1	t	521	PRO
1	u	521	PRO
1	v	521	PRO
1	w	521	PRO
1	x	521	PRO
1	y	521	PRO
1	z	521	PRO
1	1	521	PRO
1	2	521	PRO
1	3	521	PRO
1	4	521	PRO
1	5	521	PRO
1	6	521	PRO
1	7	521	PRO
1	8	521	PRO

5.3.2 Protein sidechains (i)

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

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

Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
1	1	444/444 (100%)	436 (98%)	8 (2%)	51	65
1	2	444/444 (100%)	436 (98%)	8 (2%)	51	65

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
1	3	444/444 (100%)	436 (98%)	8 (2%)	51	65
1	4	444/444 (100%)	436 (98%)	8 (2%)	51	65
1	5	444/444 (100%)	436 (98%)	8 (2%)	51	65
1	6	444/444 (100%)	436 (98%)	8 (2%)	51	65
1	7	444/444 (100%)	436 (98%)	8 (2%)	51	65
1	8	444/444 (100%)	436 (98%)	8 (2%)	51	65
1	A	444/444 (100%)	436 (98%)	8 (2%)	51	65
1	B	444/444 (100%)	436 (98%)	8 (2%)	51	65
1	C	444/444 (100%)	436 (98%)	8 (2%)	51	65
1	D	444/444 (100%)	436 (98%)	8 (2%)	51	65
1	E	444/444 (100%)	436 (98%)	8 (2%)	51	65
1	F	444/444 (100%)	436 (98%)	8 (2%)	51	65
1	G	444/444 (100%)	436 (98%)	8 (2%)	51	65
1	H	444/444 (100%)	436 (98%)	8 (2%)	51	65
1	I	444/444 (100%)	436 (98%)	8 (2%)	51	65
1	J	444/444 (100%)	436 (98%)	8 (2%)	51	65
1	K	444/444 (100%)	436 (98%)	8 (2%)	51	65
1	L	444/444 (100%)	436 (98%)	8 (2%)	51	65
1	M	444/444 (100%)	436 (98%)	8 (2%)	51	65
1	N	444/444 (100%)	436 (98%)	8 (2%)	51	65
1	O	444/444 (100%)	436 (98%)	8 (2%)	51	65
1	P	444/444 (100%)	436 (98%)	8 (2%)	51	65
1	Q	444/444 (100%)	436 (98%)	8 (2%)	51	65
1	R	444/444 (100%)	436 (98%)	8 (2%)	51	65
1	S	444/444 (100%)	436 (98%)	8 (2%)	51	65
1	T	444/444 (100%)	436 (98%)	8 (2%)	51	65
1	U	444/444 (100%)	436 (98%)	8 (2%)	51	65
1	V	444/444 (100%)	436 (98%)	8 (2%)	51	65
1	W	444/444 (100%)	436 (98%)	8 (2%)	51	65
1	X	444/444 (100%)	436 (98%)	8 (2%)	51	65
1	Y	444/444 (100%)	436 (98%)	8 (2%)	51	65

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
1	Z	444/444 (100%)	436 (98%)	8 (2%)	51	65
1	a	444/444 (100%)	436 (98%)	8 (2%)	51	65
1	b	444/444 (100%)	436 (98%)	8 (2%)	51	65
1	c	444/444 (100%)	436 (98%)	8 (2%)	51	65
1	d	444/444 (100%)	436 (98%)	8 (2%)	51	65
1	e	444/444 (100%)	436 (98%)	8 (2%)	51	65
1	f	444/444 (100%)	436 (98%)	8 (2%)	51	65
1	g	444/444 (100%)	436 (98%)	8 (2%)	51	65
1	h	444/444 (100%)	436 (98%)	8 (2%)	51	65
1	i	444/444 (100%)	436 (98%)	8 (2%)	51	65
1	j	444/444 (100%)	436 (98%)	8 (2%)	51	65
1	k	444/444 (100%)	436 (98%)	8 (2%)	51	65
1	l	444/444 (100%)	436 (98%)	8 (2%)	51	65
1	m	444/444 (100%)	436 (98%)	8 (2%)	51	65
1	n	444/444 (100%)	436 (98%)	8 (2%)	51	65
1	o	444/444 (100%)	436 (98%)	8 (2%)	51	65
1	p	444/444 (100%)	436 (98%)	8 (2%)	51	65
1	q	444/444 (100%)	436 (98%)	8 (2%)	51	65
1	r	444/444 (100%)	436 (98%)	8 (2%)	51	65
1	s	444/444 (100%)	436 (98%)	8 (2%)	51	65
1	t	444/444 (100%)	436 (98%)	8 (2%)	51	65
1	u	444/444 (100%)	436 (98%)	8 (2%)	51	65
1	v	444/444 (100%)	436 (98%)	8 (2%)	51	65
1	w	444/444 (100%)	436 (98%)	8 (2%)	51	65
1	x	444/444 (100%)	436 (98%)	8 (2%)	51	65
1	y	444/444 (100%)	436 (98%)	8 (2%)	51	65
1	z	444/444 (100%)	436 (98%)	8 (2%)	51	65
All	All	26640/26640 (100%)	26160 (98%)	480 (2%)	51	65

All (480) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	251	THR

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Mol	Chain	Res	Type
1	A	349	GLN
1	A	394	CYS
1	A	395	LEU
1	A	397	TYR
1	A	416	GLU
1	A	417	ASP
1	A	523	MET
1	B	251	THR
1	B	349	GLN
1	B	394	CYS
1	B	395	LEU
1	B	397	TYR
1	B	416	GLU
1	B	417	ASP
1	B	523	MET
1	C	251	THR
1	C	349	GLN
1	C	394	CYS
1	C	395	LEU
1	C	397	TYR
1	C	416	GLU
1	C	417	ASP
1	C	523	MET
1	D	251	THR
1	D	349	GLN
1	D	394	CYS
1	D	395	LEU
1	D	397	TYR
1	D	416	GLU
1	D	417	ASP
1	D	523	MET
1	E	251	THR
1	E	349	GLN
1	E	394	CYS
1	E	395	LEU
1	E	397	TYR
1	E	416	GLU
1	E	417	ASP
1	E	523	MET
1	F	251	THR
1	F	349	GLN
1	F	394	CYS

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Mol	Chain	Res	Type
1	F	395	LEU
1	F	397	TYR
1	F	416	GLU
1	F	417	ASP
1	F	523	MET
1	G	251	THR
1	G	349	GLN
1	G	394	CYS
1	G	395	LEU
1	G	397	TYR
1	G	416	GLU
1	G	417	ASP
1	G	523	MET
1	H	251	THR
1	H	349	GLN
1	H	394	CYS
1	H	395	LEU
1	H	397	TYR
1	H	416	GLU
1	H	417	ASP
1	H	523	MET
1	I	251	THR
1	I	349	GLN
1	I	394	CYS
1	I	395	LEU
1	I	397	TYR
1	I	416	GLU
1	I	417	ASP
1	I	523	MET
1	J	251	THR
1	J	349	GLN
1	J	394	CYS
1	J	395	LEU
1	J	397	TYR
1	J	416	GLU
1	J	417	ASP
1	J	523	MET
1	K	251	THR
1	K	349	GLN
1	K	394	CYS
1	K	395	LEU
1	K	397	TYR

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Mol	Chain	Res	Type
1	K	416	GLU
1	K	417	ASP
1	K	523	MET
1	L	251	THR
1	L	349	GLN
1	L	394	CYS
1	L	395	LEU
1	L	397	TYR
1	L	416	GLU
1	L	417	ASP
1	L	523	MET
1	M	251	THR
1	M	349	GLN
1	M	394	CYS
1	M	395	LEU
1	M	397	TYR
1	M	416	GLU
1	M	417	ASP
1	M	523	MET
1	N	251	THR
1	N	349	GLN
1	N	394	CYS
1	N	395	LEU
1	N	397	TYR
1	N	416	GLU
1	N	417	ASP
1	N	523	MET
1	O	251	THR
1	O	349	GLN
1	O	394	CYS
1	O	395	LEU
1	O	397	TYR
1	O	416	GLU
1	O	417	ASP
1	O	523	MET
1	P	251	THR
1	P	349	GLN
1	P	394	CYS
1	P	395	LEU
1	P	397	TYR
1	P	416	GLU
1	P	417	ASP

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Mol	Chain	Res	Type
1	P	523	MET
1	Q	251	THR
1	Q	349	GLN
1	Q	394	CYS
1	Q	395	LEU
1	Q	397	TYR
1	Q	416	GLU
1	Q	417	ASP
1	Q	523	MET
1	R	251	THR
1	R	349	GLN
1	R	394	CYS
1	R	395	LEU
1	R	397	TYR
1	R	416	GLU
1	R	417	ASP
1	R	523	MET
1	S	251	THR
1	S	349	GLN
1	S	394	CYS
1	S	395	LEU
1	S	397	TYR
1	S	416	GLU
1	S	417	ASP
1	S	523	MET
1	T	251	THR
1	T	349	GLN
1	T	394	CYS
1	T	395	LEU
1	T	397	TYR
1	T	416	GLU
1	T	417	ASP
1	T	523	MET
1	U	251	THR
1	U	349	GLN
1	U	394	CYS
1	U	395	LEU
1	U	397	TYR
1	U	416	GLU
1	U	417	ASP
1	U	523	MET
1	V	251	THR

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Mol	Chain	Res	Type
1	V	349	GLN
1	V	394	CYS
1	V	395	LEU
1	V	397	TYR
1	V	416	GLU
1	V	417	ASP
1	V	523	MET
1	W	251	THR
1	W	349	GLN
1	W	394	CYS
1	W	395	LEU
1	W	397	TYR
1	W	416	GLU
1	W	417	ASP
1	W	523	MET
1	X	251	THR
1	X	349	GLN
1	X	394	CYS
1	X	395	LEU
1	X	397	TYR
1	X	416	GLU
1	X	417	ASP
1	X	523	MET
1	Y	251	THR
1	Y	349	GLN
1	Y	394	CYS
1	Y	395	LEU
1	Y	397	TYR
1	Y	416	GLU
1	Y	417	ASP
1	Y	523	MET
1	Z	251	THR
1	Z	349	GLN
1	Z	394	CYS
1	Z	395	LEU
1	Z	397	TYR
1	Z	416	GLU
1	Z	417	ASP
1	Z	523	MET
1	a	251	THR
1	a	349	GLN
1	a	394	CYS

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Mol	Chain	Res	Type
1	a	395	LEU
1	a	397	TYR
1	a	416	GLU
1	a	417	ASP
1	a	523	MET
1	b	251	THR
1	b	349	GLN
1	b	394	CYS
1	b	395	LEU
1	b	397	TYR
1	b	416	GLU
1	b	417	ASP
1	b	523	MET
1	c	251	THR
1	c	349	GLN
1	c	394	CYS
1	c	395	LEU
1	c	397	TYR
1	c	416	GLU
1	c	417	ASP
1	c	523	MET
1	d	251	THR
1	d	349	GLN
1	d	394	CYS
1	d	395	LEU
1	d	397	TYR
1	d	416	GLU
1	d	417	ASP
1	d	523	MET
1	e	251	THR
1	e	349	GLN
1	e	394	CYS
1	e	395	LEU
1	e	397	TYR
1	e	416	GLU
1	e	417	ASP
1	e	523	MET
1	f	251	THR
1	f	349	GLN
1	f	394	CYS
1	f	395	LEU
1	f	397	TYR

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Mol	Chain	Res	Type
1	f	416	GLU
1	f	417	ASP
1	f	523	MET
1	g	251	THR
1	g	349	GLN
1	g	394	CYS
1	g	395	LEU
1	g	397	TYR
1	g	416	GLU
1	g	417	ASP
1	g	523	MET
1	h	251	THR
1	h	349	GLN
1	h	394	CYS
1	h	395	LEU
1	h	397	TYR
1	h	416	GLU
1	h	417	ASP
1	h	523	MET
1	i	251	THR
1	i	349	GLN
1	i	394	CYS
1	i	395	LEU
1	i	397	TYR
1	i	416	GLU
1	i	417	ASP
1	i	523	MET
1	j	251	THR
1	j	349	GLN
1	j	394	CYS
1	j	395	LEU
1	j	397	TYR
1	j	416	GLU
1	j	417	ASP
1	j	523	MET
1	k	251	THR
1	k	349	GLN
1	k	394	CYS
1	k	395	LEU
1	k	397	TYR
1	k	416	GLU
1	k	417	ASP

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Mol	Chain	Res	Type
1	k	523	MET
1	l	251	THR
1	l	349	GLN
1	l	394	CYS
1	l	395	LEU
1	l	397	TYR
1	l	416	GLU
1	l	417	ASP
1	l	523	MET
1	m	251	THR
1	m	349	GLN
1	m	394	CYS
1	m	395	LEU
1	m	397	TYR
1	m	416	GLU
1	m	417	ASP
1	m	523	MET
1	n	251	THR
1	n	349	GLN
1	n	394	CYS
1	n	395	LEU
1	n	397	TYR
1	n	416	GLU
1	n	417	ASP
1	n	523	MET
1	o	251	THR
1	o	349	GLN
1	o	394	CYS
1	o	395	LEU
1	o	397	TYR
1	o	416	GLU
1	o	417	ASP
1	o	523	MET
1	p	251	THR
1	p	349	GLN
1	p	394	CYS
1	p	395	LEU
1	p	397	TYR
1	p	416	GLU
1	p	417	ASP
1	p	523	MET
1	q	251	THR

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Mol	Chain	Res	Type
1	q	349	GLN
1	q	394	CYS
1	q	395	LEU
1	q	397	TYR
1	q	416	GLU
1	q	417	ASP
1	q	523	MET
1	r	251	THR
1	r	349	GLN
1	r	394	CYS
1	r	395	LEU
1	r	397	TYR
1	r	416	GLU
1	r	417	ASP
1	r	523	MET
1	s	251	THR
1	s	349	GLN
1	s	394	CYS
1	s	395	LEU
1	s	397	TYR
1	s	416	GLU
1	s	417	ASP
1	s	523	MET
1	t	251	THR
1	t	349	GLN
1	t	394	CYS
1	t	395	LEU
1	t	397	TYR
1	t	416	GLU
1	t	417	ASP
1	t	523	MET
1	u	251	THR
1	u	349	GLN
1	u	394	CYS
1	u	395	LEU
1	u	397	TYR
1	u	416	GLU
1	u	417	ASP
1	u	523	MET
1	v	251	THR
1	v	349	GLN
1	v	394	CYS

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Mol	Chain	Res	Type
1	v	395	LEU
1	v	397	TYR
1	v	416	GLU
1	v	417	ASP
1	v	523	MET
1	w	251	THR
1	w	349	GLN
1	w	394	CYS
1	w	395	LEU
1	w	397	TYR
1	w	416	GLU
1	w	417	ASP
1	w	523	MET
1	x	251	THR
1	x	349	GLN
1	x	394	CYS
1	x	395	LEU
1	x	397	TYR
1	x	416	GLU
1	x	417	ASP
1	x	523	MET
1	y	251	THR
1	y	349	GLN
1	y	394	CYS
1	y	395	LEU
1	y	397	TYR
1	y	416	GLU
1	y	417	ASP
1	y	523	MET
1	z	251	THR
1	z	349	GLN
1	z	394	CYS
1	z	395	LEU
1	z	397	TYR
1	z	416	GLU
1	z	417	ASP
1	z	523	MET
1	1	251	THR
1	1	349	GLN
1	1	394	CYS
1	1	395	LEU
1	1	397	TYR

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Mol	Chain	Res	Type
1	1	416	GLU
1	1	417	ASP
1	1	523	MET
1	2	251	THR
1	2	349	GLN
1	2	394	CYS
1	2	395	LEU
1	2	397	TYR
1	2	416	GLU
1	2	417	ASP
1	2	523	MET
1	3	251	THR
1	3	349	GLN
1	3	394	CYS
1	3	395	LEU
1	3	397	TYR
1	3	416	GLU
1	3	417	ASP
1	3	523	MET
1	4	251	THR
1	4	349	GLN
1	4	394	CYS
1	4	395	LEU
1	4	397	TYR
1	4	416	GLU
1	4	417	ASP
1	4	523	MET
1	5	251	THR
1	5	349	GLN
1	5	394	CYS
1	5	395	LEU
1	5	397	TYR
1	5	416	GLU
1	5	417	ASP
1	5	523	MET
1	6	251	THR
1	6	349	GLN
1	6	394	CYS
1	6	395	LEU
1	6	397	TYR
1	6	416	GLU
1	6	417	ASP

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Mol	Chain	Res	Type
1	6	523	MET
1	7	251	THR
1	7	349	GLN
1	7	394	CYS
1	7	395	LEU
1	7	397	TYR
1	7	416	GLU
1	7	417	ASP
1	7	523	MET
1	8	251	THR
1	8	349	GLN
1	8	394	CYS
1	8	395	LEU
1	8	397	TYR
1	8	416	GLU
1	8	417	ASP
1	8	523	MET

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (754) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	253	ASN
1	A	302	ASN
1	A	349	GLN
1	A	359	GLN
1	A	426	HIS
1	A	518	ASN
1	A	598	GLN
1	A	623	HIS
1	A	695	ASN
1	A	717	ASN
1	B	253	ASN
1	B	254	ASN
1	B	302	ASN
1	B	303	ASN
1	B	349	GLN
1	B	359	GLN
1	B	382	ASN
1	B	426	HIS
1	B	518	ASN
1	B	598	GLN
1	B	623	HIS

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Mol	Chain	Res	Type
1	B	695	ASN
1	C	253	ASN
1	C	302	ASN
1	C	303	ASN
1	C	341	GLN
1	C	349	GLN
1	C	359	GLN
1	C	382	ASN
1	C	426	HIS
1	C	518	ASN
1	C	598	GLN
1	C	623	HIS
1	D	253	ASN
1	D	302	ASN
1	D	303	ASN
1	D	341	GLN
1	D	349	GLN
1	D	359	GLN
1	D	382	ASN
1	D	426	HIS
1	D	518	ASN
1	D	598	GLN
1	D	623	HIS
1	D	695	ASN
1	D	717	ASN
1	E	253	ASN
1	E	302	ASN
1	E	303	ASN
1	E	341	GLN
1	E	349	GLN
1	E	359	GLN
1	E	382	ASN
1	E	426	HIS
1	E	518	ASN
1	E	598	GLN
1	E	623	HIS
1	E	695	ASN
1	E	717	ASN
1	F	253	ASN
1	F	254	ASN
1	F	302	ASN
1	F	341	GLN

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Mol	Chain	Res	Type
1	F	349	GLN
1	F	359	GLN
1	F	382	ASN
1	F	426	HIS
1	F	435	ASN
1	F	518	ASN
1	F	598	GLN
1	F	623	HIS
1	F	695	ASN
1	F	717	ASN
1	G	253	ASN
1	G	302	ASN
1	G	303	ASN
1	G	341	GLN
1	G	349	GLN
1	G	359	GLN
1	G	382	ASN
1	G	426	HIS
1	G	518	ASN
1	G	536	GLN
1	G	598	GLN
1	G	623	HIS
1	G	695	ASN
1	G	717	ASN
1	H	253	ASN
1	H	302	ASN
1	H	303	ASN
1	H	341	GLN
1	H	349	GLN
1	H	359	GLN
1	H	426	HIS
1	H	435	ASN
1	H	518	ASN
1	H	598	GLN
1	H	623	HIS
1	H	695	ASN
1	I	253	ASN
1	I	302	ASN
1	I	303	ASN
1	I	341	GLN
1	I	349	GLN
1	I	359	GLN

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Mol	Chain	Res	Type
1	I	382	ASN
1	I	426	HIS
1	I	518	ASN
1	I	598	GLN
1	I	623	HIS
1	I	695	ASN
1	I	717	ASN
1	J	253	ASN
1	J	254	ASN
1	J	302	ASN
1	J	341	GLN
1	J	349	GLN
1	J	359	GLN
1	J	382	ASN
1	J	426	HIS
1	J	518	ASN
1	J	598	GLN
1	J	623	HIS
1	J	695	ASN
1	K	253	ASN
1	K	302	ASN
1	K	341	GLN
1	K	349	GLN
1	K	359	GLN
1	K	426	HIS
1	K	518	ASN
1	K	598	GLN
1	K	623	HIS
1	K	695	ASN
1	K	717	ASN
1	L	253	ASN
1	L	254	ASN
1	L	302	ASN
1	L	303	ASN
1	L	341	GLN
1	L	349	GLN
1	L	359	GLN
1	L	426	HIS
1	L	518	ASN
1	L	598	GLN
1	L	623	HIS
1	L	695	ASN

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Mol	Chain	Res	Type
1	M	253	ASN
1	M	254	ASN
1	M	302	ASN
1	M	341	GLN
1	M	349	GLN
1	M	359	GLN
1	M	382	ASN
1	M	426	HIS
1	M	435	ASN
1	M	518	ASN
1	M	598	GLN
1	M	623	HIS
1	M	695	ASN
1	N	253	ASN
1	N	302	ASN
1	N	303	ASN
1	N	341	GLN
1	N	349	GLN
1	N	359	GLN
1	N	382	ASN
1	N	426	HIS
1	N	518	ASN
1	N	598	GLN
1	N	623	HIS
1	N	695	ASN
1	O	253	ASN
1	O	254	ASN
1	O	302	ASN
1	O	341	GLN
1	O	349	GLN
1	O	359	GLN
1	O	382	ASN
1	O	426	HIS
1	O	518	ASN
1	O	598	GLN
1	O	623	HIS
1	O	695	ASN
1	O	717	ASN
1	P	253	ASN
1	P	254	ASN
1	P	302	ASN
1	P	303	ASN

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Mol	Chain	Res	Type
1	P	341	GLN
1	P	349	GLN
1	P	359	GLN
1	P	426	HIS
1	P	518	ASN
1	P	598	GLN
1	P	623	HIS
1	P	695	ASN
1	Q	253	ASN
1	Q	254	ASN
1	Q	302	ASN
1	Q	341	GLN
1	Q	349	GLN
1	Q	359	GLN
1	Q	382	ASN
1	Q	426	HIS
1	Q	518	ASN
1	Q	598	GLN
1	Q	623	HIS
1	Q	695	ASN
1	Q	717	ASN
1	R	253	ASN
1	R	254	ASN
1	R	302	ASN
1	R	303	ASN
1	R	341	GLN
1	R	349	GLN
1	R	359	GLN
1	R	382	ASN
1	R	426	HIS
1	R	518	ASN
1	R	536	GLN
1	R	598	GLN
1	R	623	HIS
1	R	695	ASN
1	R	717	ASN
1	S	253	ASN
1	S	254	ASN
1	S	302	ASN
1	S	303	ASN
1	S	341	GLN
1	S	349	GLN

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Mol	Chain	Res	Type
1	S	359	GLN
1	S	382	ASN
1	S	426	HIS
1	S	518	ASN
1	S	598	GLN
1	S	623	HIS
1	S	695	ASN
1	S	717	ASN
1	T	253	ASN
1	T	302	ASN
1	T	303	ASN
1	T	341	GLN
1	T	349	GLN
1	T	359	GLN
1	T	426	HIS
1	T	518	ASN
1	T	598	GLN
1	T	695	ASN
1	U	253	ASN
1	U	302	ASN
1	U	303	ASN
1	U	341	GLN
1	U	349	GLN
1	U	359	GLN
1	U	382	ASN
1	U	426	HIS
1	U	486	GLN
1	U	518	ASN
1	U	598	GLN
1	U	623	HIS
1	U	695	ASN
1	V	253	ASN
1	V	254	ASN
1	V	302	ASN
1	V	303	ASN
1	V	349	GLN
1	V	359	GLN
1	V	426	HIS
1	V	518	ASN
1	V	598	GLN
1	V	695	ASN
1	W	253	ASN

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Mol	Chain	Res	Type
1	W	254	ASN
1	W	302	ASN
1	W	303	ASN
1	W	341	GLN
1	W	349	GLN
1	W	359	GLN
1	W	382	ASN
1	W	426	HIS
1	W	518	ASN
1	W	598	GLN
1	W	623	HIS
1	W	695	ASN
1	X	253	ASN
1	X	254	ASN
1	X	302	ASN
1	X	341	GLN
1	X	349	GLN
1	X	359	GLN
1	X	382	ASN
1	X	426	HIS
1	X	518	ASN
1	X	598	GLN
1	X	623	HIS
1	X	695	ASN
1	X	717	ASN
1	Y	253	ASN
1	Y	254	ASN
1	Y	302	ASN
1	Y	303	ASN
1	Y	349	GLN
1	Y	359	GLN
1	Y	426	HIS
1	Y	435	ASN
1	Y	518	ASN
1	Y	598	GLN
1	Y	623	HIS
1	Y	695	ASN
1	Z	253	ASN
1	Z	302	ASN
1	Z	303	ASN
1	Z	341	GLN
1	Z	349	GLN

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Mol	Chain	Res	Type
1	Z	359	GLN
1	Z	382	ASN
1	Z	426	HIS
1	Z	518	ASN
1	Z	598	GLN
1	Z	623	HIS
1	Z	695	ASN
1	a	253	ASN
1	a	254	ASN
1	a	302	ASN
1	a	341	GLN
1	a	349	GLN
1	a	359	GLN
1	a	382	ASN
1	a	426	HIS
1	a	435	ASN
1	a	518	ASN
1	a	598	GLN
1	a	623	HIS
1	a	695	ASN
1	b	253	ASN
1	b	254	ASN
1	b	302	ASN
1	b	341	GLN
1	b	349	GLN
1	b	359	GLN
1	b	382	ASN
1	b	426	HIS
1	b	518	ASN
1	b	598	GLN
1	b	623	HIS
1	b	695	ASN
1	b	709	ASN
1	b	717	ASN
1	c	253	ASN
1	c	302	ASN
1	c	303	ASN
1	c	341	GLN
1	c	349	GLN
1	c	359	GLN
1	c	382	ASN
1	c	426	HIS

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Mol	Chain	Res	Type
1	c	518	ASN
1	c	598	GLN
1	c	623	HIS
1	c	695	ASN
1	d	253	ASN
1	d	302	ASN
1	d	303	ASN
1	d	341	GLN
1	d	349	GLN
1	d	359	GLN
1	d	382	ASN
1	d	426	HIS
1	d	518	ASN
1	d	598	GLN
1	d	623	HIS
1	d	695	ASN
1	d	717	ASN
1	e	253	ASN
1	e	254	ASN
1	e	302	ASN
1	e	303	ASN
1	e	341	GLN
1	e	349	GLN
1	e	359	GLN
1	e	426	HIS
1	e	518	ASN
1	e	598	GLN
1	e	623	HIS
1	e	695	ASN
1	f	253	ASN
1	f	254	ASN
1	f	302	ASN
1	f	303	ASN
1	f	349	GLN
1	f	359	GLN
1	f	382	ASN
1	f	426	HIS
1	f	518	ASN
1	f	598	GLN
1	f	623	HIS
1	f	695	ASN
1	f	709	ASN

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Mol	Chain	Res	Type
1	f	717	ASN
1	g	253	ASN
1	g	302	ASN
1	g	303	ASN
1	g	341	GLN
1	g	349	GLN
1	g	359	GLN
1	g	382	ASN
1	g	426	HIS
1	g	435	ASN
1	g	518	ASN
1	g	598	GLN
1	g	695	ASN
1	h	253	ASN
1	h	254	ASN
1	h	302	ASN
1	h	341	GLN
1	h	349	GLN
1	h	359	GLN
1	h	382	ASN
1	h	426	HIS
1	h	435	ASN
1	h	518	ASN
1	h	598	GLN
1	h	623	HIS
1	h	695	ASN
1	i	253	ASN
1	i	302	ASN
1	i	303	ASN
1	i	341	GLN
1	i	349	GLN
1	i	359	GLN
1	i	382	ASN
1	i	426	HIS
1	i	518	ASN
1	i	598	GLN
1	i	623	HIS
1	i	695	ASN
1	i	717	ASN
1	j	253	ASN
1	j	254	ASN
1	j	302	ASN

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Mol	Chain	Res	Type
1	j	303	ASN
1	j	341	GLN
1	j	349	GLN
1	j	359	GLN
1	j	426	HIS
1	j	518	ASN
1	j	598	GLN
1	j	623	HIS
1	j	695	ASN
1	k	253	ASN
1	k	254	ASN
1	k	302	ASN
1	k	349	GLN
1	k	359	GLN
1	k	382	ASN
1	k	426	HIS
1	k	518	ASN
1	k	598	GLN
1	k	623	HIS
1	k	695	ASN
1	k	717	ASN
1	l	253	ASN
1	l	254	ASN
1	l	302	ASN
1	l	303	ASN
1	l	341	GLN
1	l	349	GLN
1	l	359	GLN
1	l	382	ASN
1	l	426	HIS
1	l	518	ASN
1	l	598	GLN
1	l	623	HIS
1	l	695	ASN
1	l	717	ASN
1	m	253	ASN
1	m	302	ASN
1	m	303	ASN
1	m	341	GLN
1	m	349	GLN
1	m	359	GLN
1	m	382	ASN

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Mol	Chain	Res	Type
1	m	426	HIS
1	m	518	ASN
1	m	598	GLN
1	m	623	HIS
1	m	695	ASN
1	n	253	ASN
1	n	254	ASN
1	n	302	ASN
1	n	303	ASN
1	n	341	GLN
1	n	349	GLN
1	n	359	GLN
1	n	382	ASN
1	n	426	HIS
1	n	518	ASN
1	n	598	GLN
1	n	623	HIS
1	n	695	ASN
1	n	709	ASN
1	n	717	ASN
1	o	253	ASN
1	o	254	ASN
1	o	302	ASN
1	o	341	GLN
1	o	349	GLN
1	o	359	GLN
1	o	382	ASN
1	o	426	HIS
1	o	518	ASN
1	o	598	GLN
1	o	623	HIS
1	o	695	ASN
1	o	717	ASN
1	p	253	ASN
1	p	254	ASN
1	p	302	ASN
1	p	303	ASN
1	p	349	GLN
1	p	359	GLN
1	p	426	HIS
1	p	518	ASN
1	p	598	GLN

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Mol	Chain	Res	Type
1	p	623	HIS
1	p	695	ASN
1	q	253	ASN
1	q	254	ASN
1	q	302	ASN
1	q	303	ASN
1	q	341	GLN
1	q	349	GLN
1	q	359	GLN
1	q	382	ASN
1	q	426	HIS
1	q	518	ASN
1	q	536	GLN
1	q	598	GLN
1	q	623	HIS
1	q	695	ASN
1	q	717	ASN
1	r	253	ASN
1	r	254	ASN
1	r	302	ASN
1	r	303	ASN
1	r	341	GLN
1	r	349	GLN
1	r	359	GLN
1	r	382	ASN
1	r	426	HIS
1	r	518	ASN
1	r	598	GLN
1	r	695	ASN
1	r	717	ASN
1	s	253	ASN
1	s	254	ASN
1	s	302	ASN
1	s	303	ASN
1	s	341	GLN
1	s	349	GLN
1	s	359	GLN
1	s	382	ASN
1	s	426	HIS
1	s	518	ASN
1	s	598	GLN
1	s	623	HIS

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Mol	Chain	Res	Type
1	s	695	ASN
1	t	253	ASN
1	t	254	ASN
1	t	302	ASN
1	t	341	GLN
1	t	349	GLN
1	t	359	GLN
1	t	426	HIS
1	t	518	ASN
1	t	598	GLN
1	t	623	HIS
1	t	695	ASN
1	t	717	ASN
1	u	253	ASN
1	u	302	ASN
1	u	303	ASN
1	u	341	GLN
1	u	349	GLN
1	u	359	GLN
1	u	382	ASN
1	u	426	HIS
1	u	486	GLN
1	u	518	ASN
1	u	598	GLN
1	u	623	HIS
1	u	695	ASN
1	u	717	ASN
1	v	253	ASN
1	v	302	ASN
1	v	341	GLN
1	v	349	GLN
1	v	359	GLN
1	v	426	HIS
1	v	435	ASN
1	v	518	ASN
1	v	598	GLN
1	v	623	HIS
1	v	695	ASN
1	v	717	ASN
1	w	253	ASN
1	w	302	ASN
1	w	303	ASN

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Mol	Chain	Res	Type
1	w	341	GLN
1	w	349	GLN
1	w	359	GLN
1	w	382	ASN
1	w	426	HIS
1	w	518	ASN
1	w	598	GLN
1	w	623	HIS
1	w	695	ASN
1	w	717	ASN
1	x	253	ASN
1	x	254	ASN
1	x	302	ASN
1	x	341	GLN
1	x	349	GLN
1	x	359	GLN
1	x	382	ASN
1	x	426	HIS
1	x	518	ASN
1	x	536	GLN
1	x	598	GLN
1	x	623	HIS
1	x	695	ASN
1	x	717	ASN
1	y	253	ASN
1	y	254	ASN
1	y	302	ASN
1	y	349	GLN
1	y	359	GLN
1	y	382	ASN
1	y	426	HIS
1	y	435	ASN
1	y	518	ASN
1	y	598	GLN
1	y	623	HIS
1	y	695	ASN
1	z	253	ASN
1	z	254	ASN
1	z	302	ASN
1	z	303	ASN
1	z	341	GLN
1	z	349	GLN

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Mol	Chain	Res	Type
1	z	359	GLN
1	z	426	HIS
1	z	518	ASN
1	z	598	GLN
1	z	623	HIS
1	z	695	ASN
1	1	253	ASN
1	1	254	ASN
1	1	302	ASN
1	1	303	ASN
1	1	341	GLN
1	1	349	GLN
1	1	359	GLN
1	1	382	ASN
1	1	426	HIS
1	1	518	ASN
1	1	598	GLN
1	1	623	HIS
1	1	695	ASN
1	2	253	ASN
1	2	254	ASN
1	2	302	ASN
1	2	341	GLN
1	2	349	GLN
1	2	359	GLN
1	2	382	ASN
1	2	426	HIS
1	2	518	ASN
1	2	598	GLN
1	2	623	HIS
1	2	695	ASN
1	3	253	ASN
1	3	254	ASN
1	3	302	ASN
1	3	341	GLN
1	3	349	GLN
1	3	359	GLN
1	3	382	ASN
1	3	426	HIS
1	3	435	ASN
1	3	518	ASN
1	3	598	GLN

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Mol	Chain	Res	Type
1	3	623	HIS
1	3	695	ASN
1	3	717	ASN
1	4	253	ASN
1	4	302	ASN
1	4	341	GLN
1	4	349	GLN
1	4	359	GLN
1	4	426	HIS
1	4	518	ASN
1	4	598	GLN
1	4	623	HIS
1	4	695	ASN
1	4	717	ASN
1	5	253	ASN
1	5	302	ASN
1	5	303	ASN
1	5	341	GLN
1	5	349	GLN
1	5	359	GLN
1	5	426	HIS
1	5	518	ASN
1	5	598	GLN
1	5	623	HIS
1	5	695	ASN
1	6	253	ASN
1	6	302	ASN
1	6	303	ASN
1	6	341	GLN
1	6	349	GLN
1	6	359	GLN
1	6	382	ASN
1	6	426	HIS
1	6	518	ASN
1	6	598	GLN
1	6	623	HIS
1	6	695	ASN
1	7	253	ASN
1	7	254	ASN
1	7	302	ASN
1	7	303	ASN
1	7	349	GLN

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Mol	Chain	Res	Type
1	7	359	GLN
1	7	426	HIS
1	7	435	ASN
1	7	518	ASN
1	7	598	GLN
1	7	623	HIS
1	7	695	ASN
1	8	253	ASN
1	8	302	ASN
1	8	303	ASN
1	8	341	GLN
1	8	349	GLN
1	8	359	GLN
1	8	382	ASN
1	8	426	HIS
1	8	518	ASN
1	8	598	GLN
1	8	623	HIS
1	8	695	ASN

5.3.3 RNA

There are no RNA molecules in this entry.

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

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

5.5 Carbohydrates

There are no oligosaccharides in this entry.

5.6 Ligand geometry

There are no ligands in this entry.

5.7 Other polymers

There are no such residues in this entry.

5.8 Polymer linkage issues (i)

There are no chain breaks in this entry.

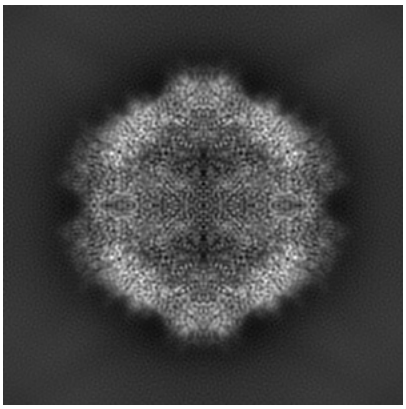
6 Map visualisation

This section contains visualisations of the EMDB entry EMD-29636. These allow visual inspection of the internal detail of the map and identification of artifacts.

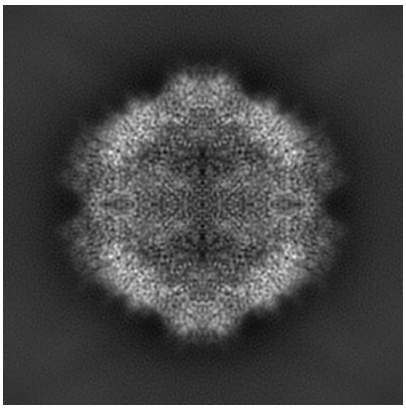
Images derived from a raw map, generated by summing the deposited half-maps, are presented below the corresponding image components of the primary map to allow further visual inspection and comparison with those of the primary map.

6.1 Orthogonal projections

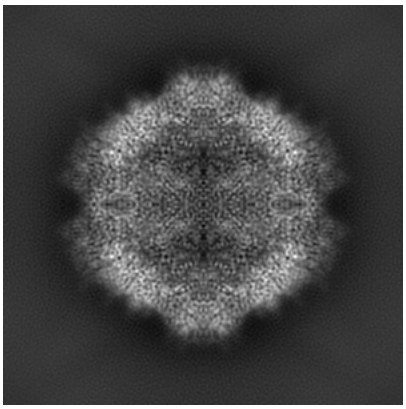
6.1.1 Primary map



X

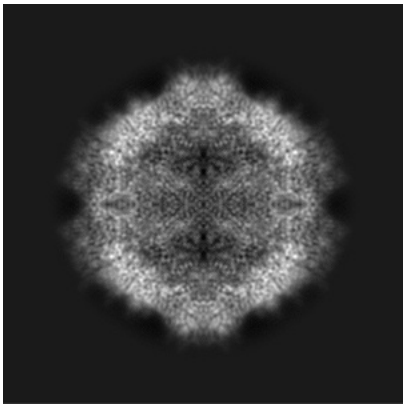


Y

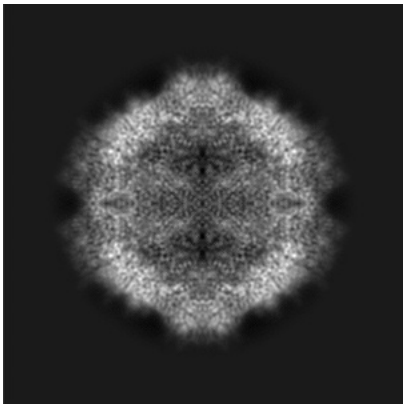


Z

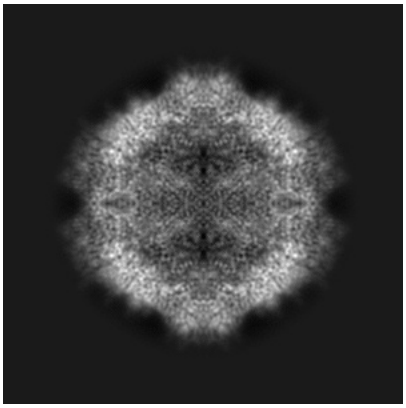
6.1.2 Raw map



X



Y

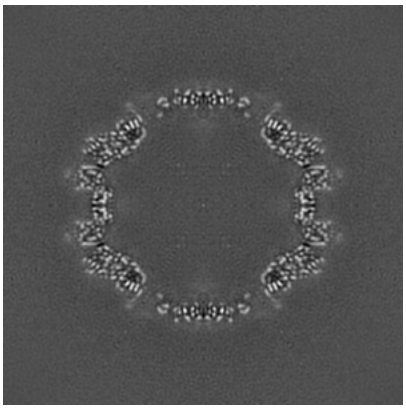


Z

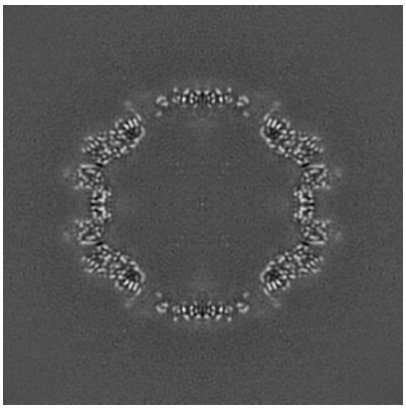
The images above show the map projected in three orthogonal directions.

6.2 Central slices (i)

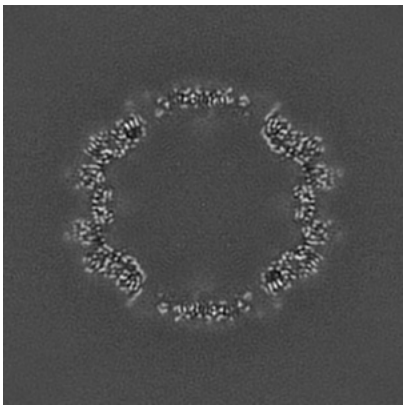
6.2.1 Primary map



X Index: 200

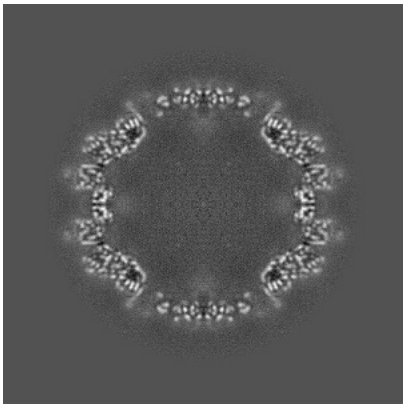


Y Index: 200

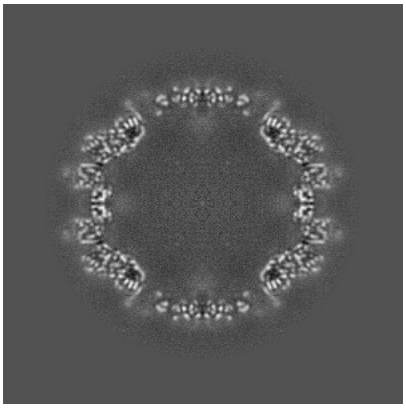


Z Index: 200

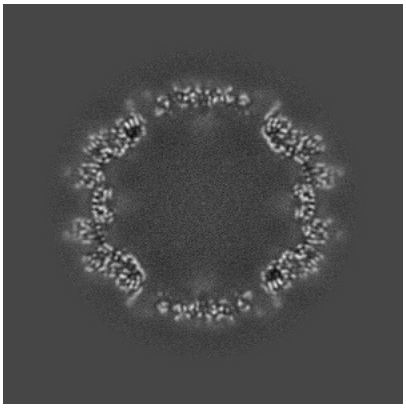
6.2.2 Raw map



X Index: 200



Y Index: 200

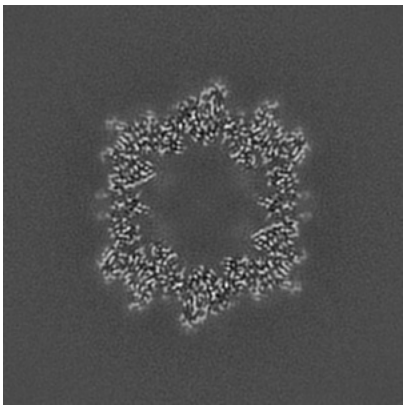


Z Index: 200

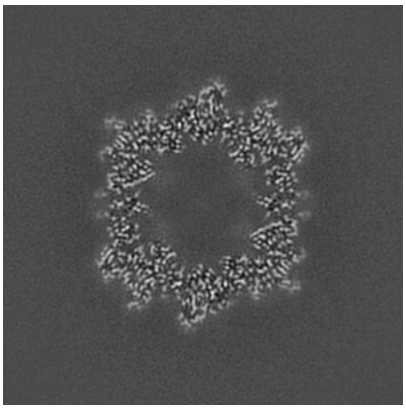
The images above show central slices of the map in three orthogonal directions.

6.3 Largest variance slices (i)

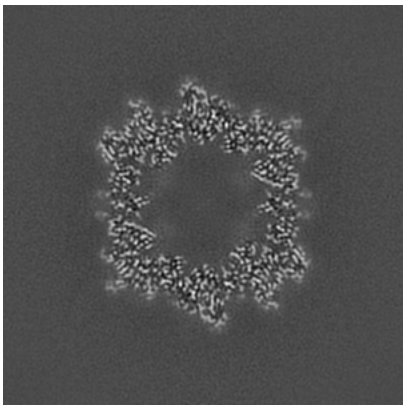
6.3.1 Primary map



X Index: 267

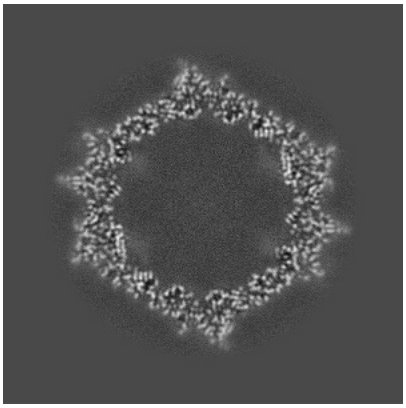


Y Index: 267

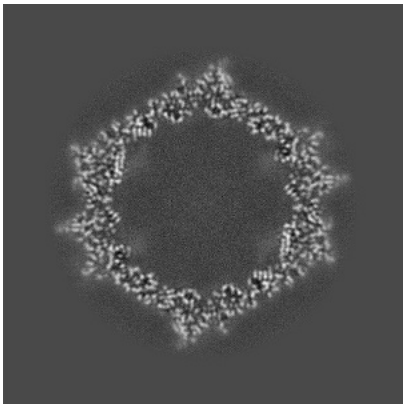


Z Index: 132

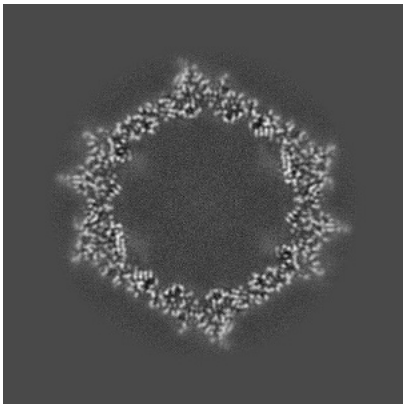
6.3.2 Raw map



X Index: 179



Y Index: 221

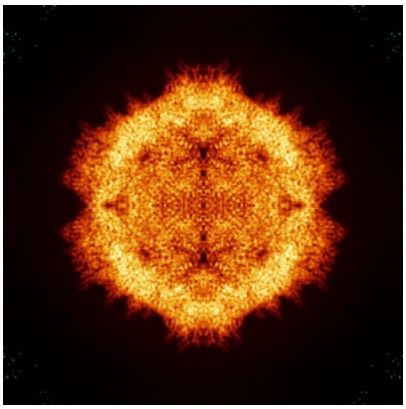


Z Index: 178

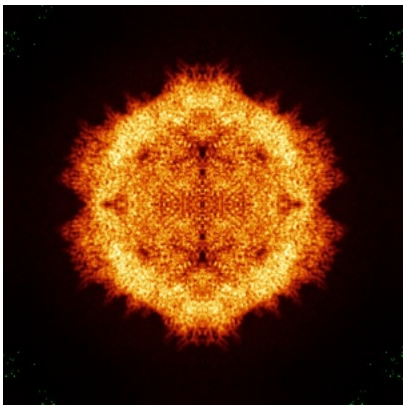
The images above show the largest variance slices of the map in three orthogonal directions.

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

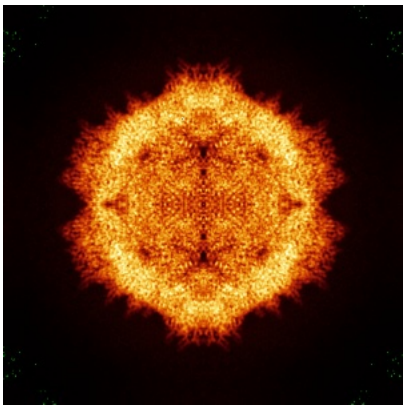
6.4.1 Primary map



X

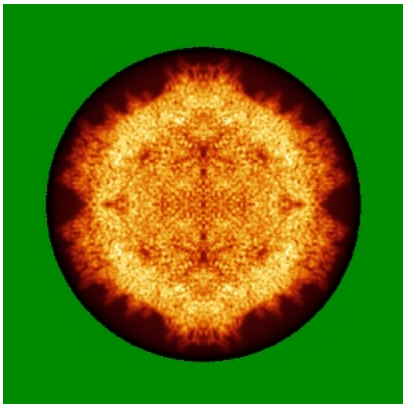


Y

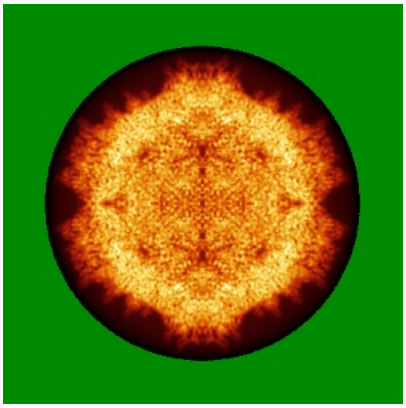


Z

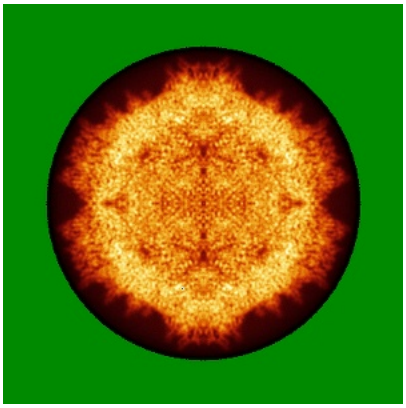
6.4.2 Raw map



X



Y



Z

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

6.5 Orthogonal surface views (i)

6.5.1 Primary map

X Y Z

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

6.5.2 Raw map

X Y Z

These images show the 3D surface of the raw map. The raw map's contour level was selected so that its surface encloses the same volume as the primary map does at its recommended contour level.

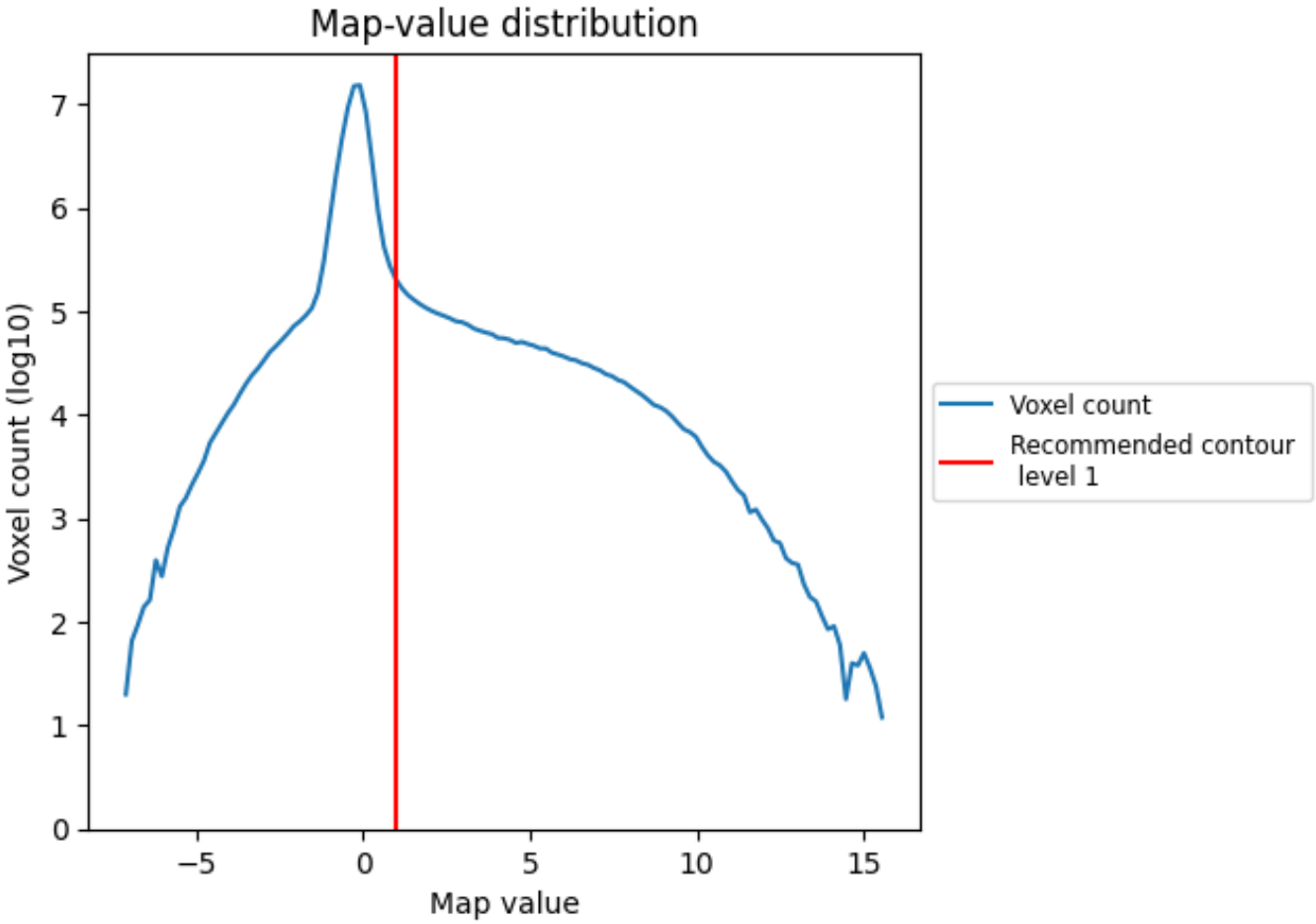
6.6 Mask visualisation (i)

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

7 Map analysis

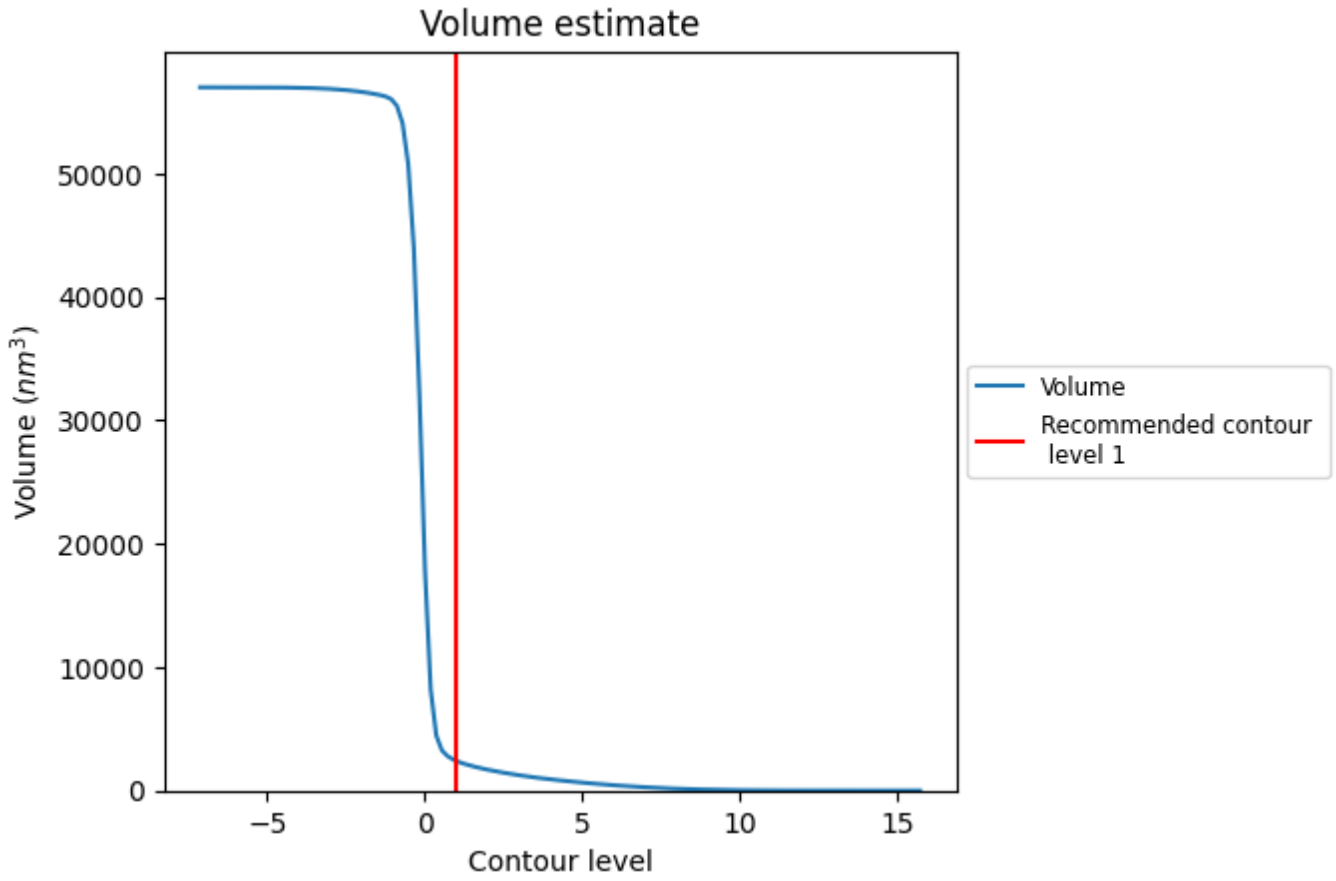
This section contains the results of statistical analysis of the map.

7.1 Map-value distribution



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

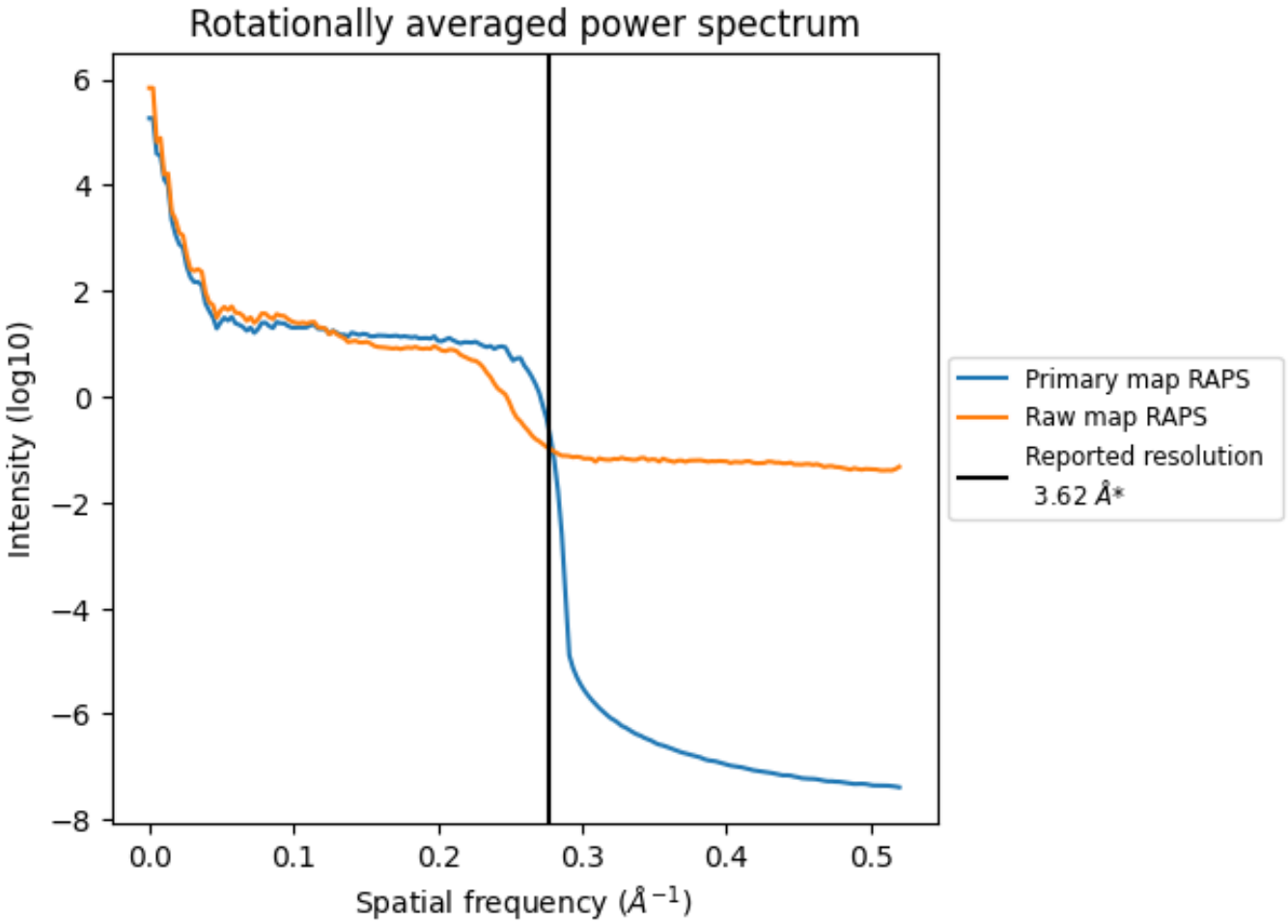
7.2 Volume estimate



The volume at the recommended contour level is 2419 nm^3; this corresponds to an approximate mass of 2186 kDa.

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

7.3 Rotationally averaged power spectrum (i)

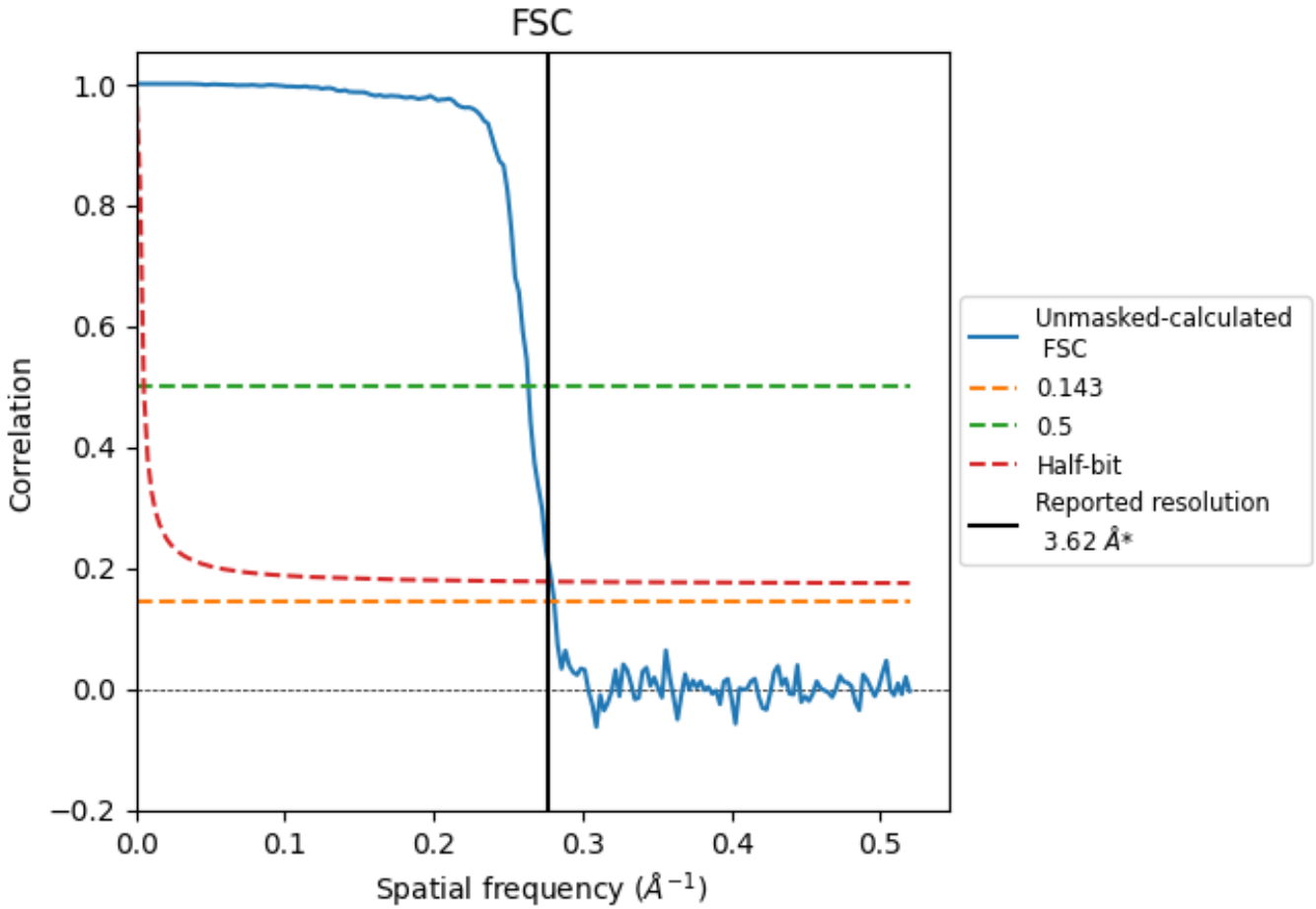


*Reported resolution corresponds to spatial frequency of 0.276 Å^{-1}

8 Fourier-Shell correlation

Fourier-Shell Correlation (FSC) is the most commonly used method to estimate the resolution of single-particle and subtomogram-averaged maps. The shape of the curve depends on the imposed symmetry, mask and whether or not the two 3D reconstructions used were processed from a common reference. The reported resolution is shown as a black line. A curve is displayed for the half-bit criterion in addition to lines showing the 0.143 gold standard cut-off and 0.5 cut-off.

8.1 FSC



*Reported resolution corresponds to spatial frequency of 0.276 Å^{-1}

8.2 Resolution estimates (i)

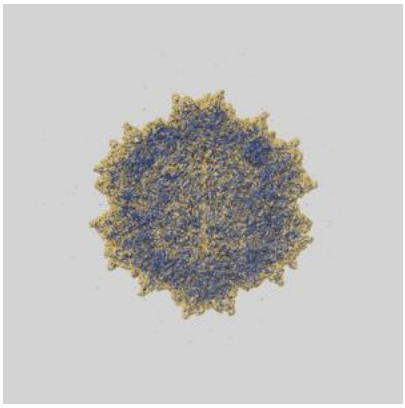
Resolution estimate (Å)	Estimation criterion (FSC cut-off)		
	0.143	0.5	Half-bit
Reported by author	3.62	-	-
Author-provided FSC curve	-	-	-
Unmasked-calculated*	3.56	3.79	3.58

*Resolution estimate based on FSC curve calculated by comparison of deposited half-maps.

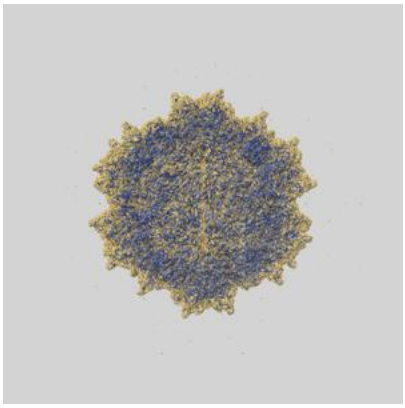
9 Map-model fit

This section contains information regarding the fit between EMDB map EMD-29636 and PDB model 8FZN. Per-residue inclusion information can be found in section 3 on page 11.

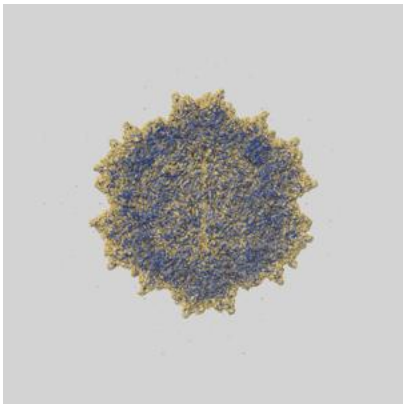
9.1 Map-model overlay



X



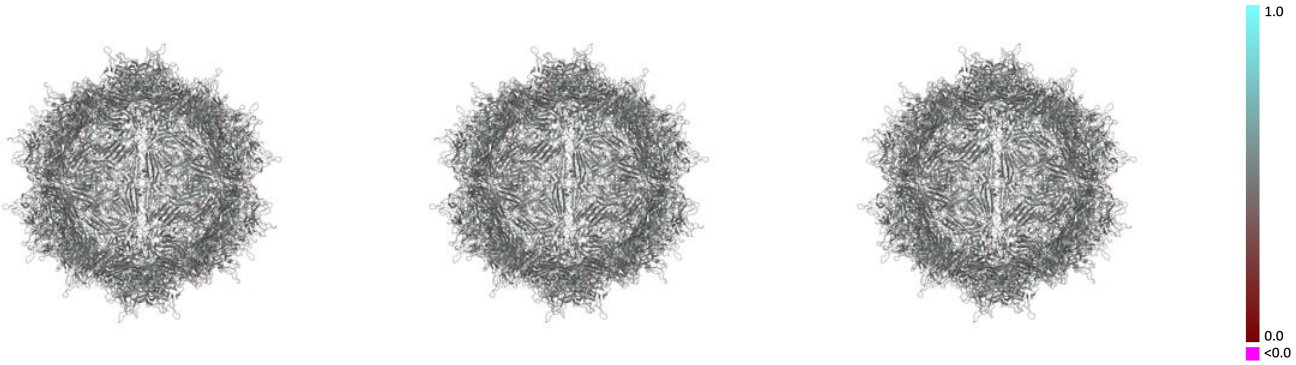
Y



Z

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

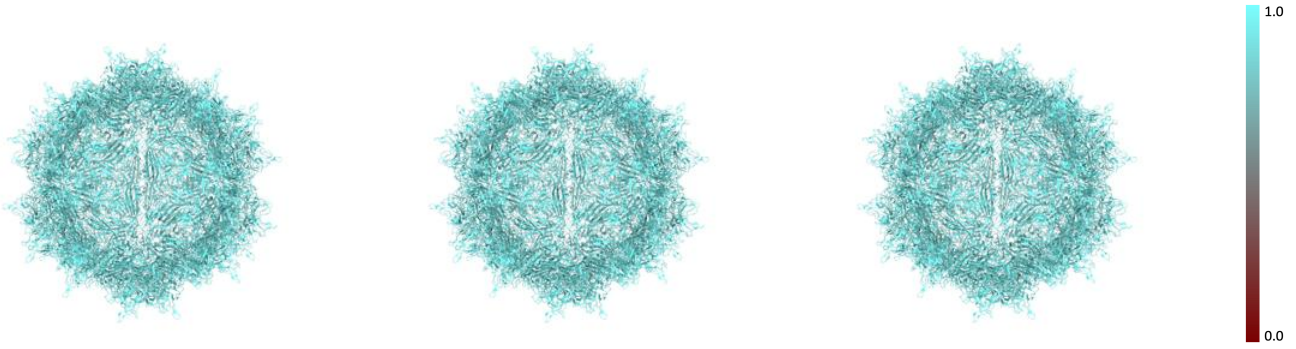
9.2 Q-score mapped to coordinate model (i)



X Y Z

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

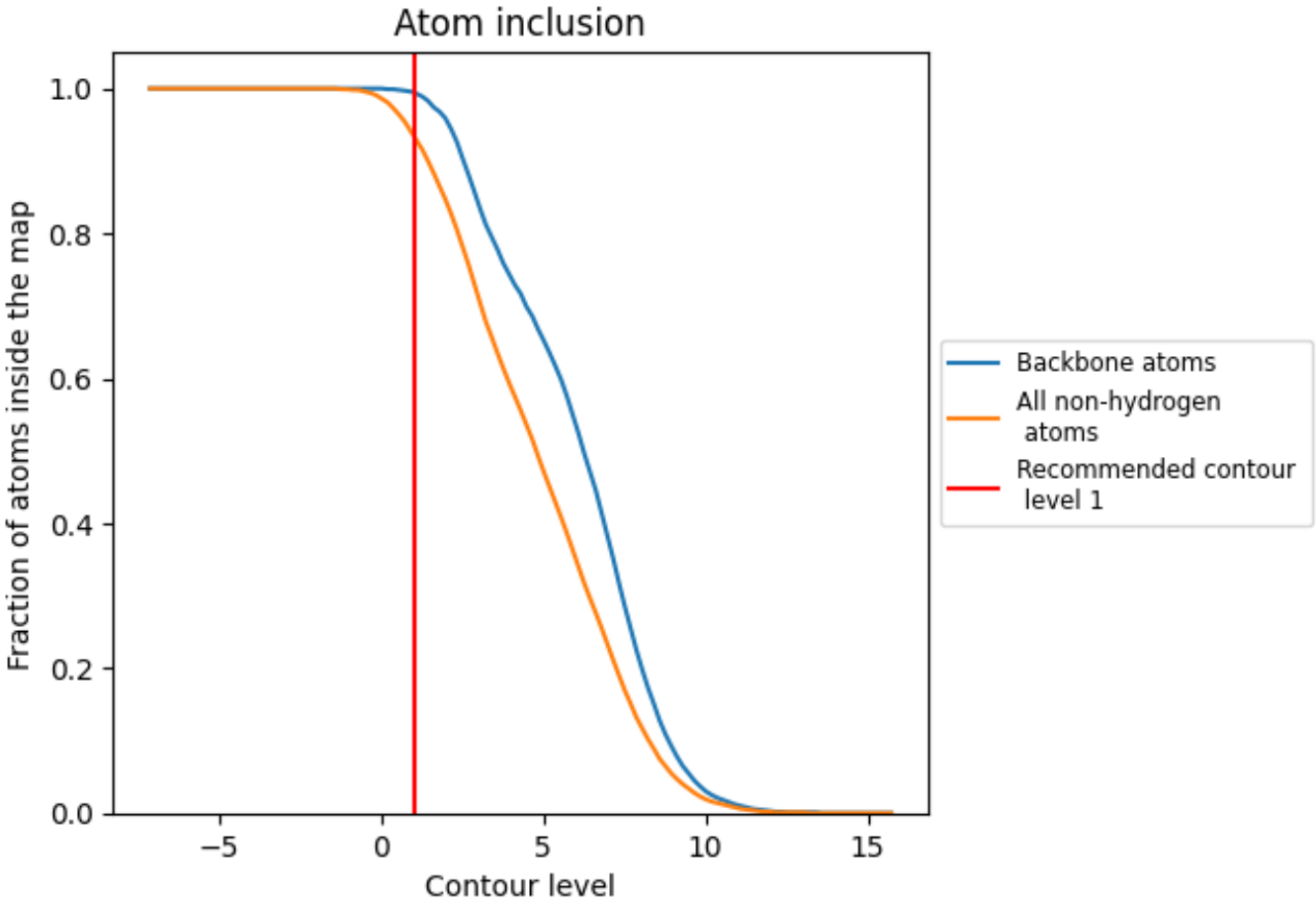
9.3 Atom inclusion mapped to coordinate model (i)



X Y Z

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

9.4 Atom inclusion (i)



At the recommended contour level, 100% of all backbone atoms, 94% of all non-hydrogen atoms, are inside the map.

9.5 Map-model fit summary

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

Chain	Atom inclusion	Q-score
All	0.9350	0.4850
1	0.9350	0.4860
2	0.9350	0.4830
3	0.9380	0.4840
4	0.9330	0.4840
5	0.9340	0.4840
6	0.9340	0.4860
7	0.9340	0.4840
8	0.9340	0.4840
A	0.9380	0.4850
B	0.9350	0.4840
C	0.9330	0.4850
D	0.9340	0.4850
E	0.9340	0.4850
F	0.9380	0.4840
G	0.9340	0.4850
H	0.9340	0.4840
I	0.9320	0.4830
J	0.9350	0.4840
K	0.9330	0.4830
L	0.9350	0.4830
M	0.9350	0.4860
N	0.9340	0.4850
O	0.9350	0.4850
P	0.9340	0.4840
Q	0.9320	0.4840
R	0.9350	0.4860
S	0.9350	0.4830
T	0.9330	0.4850
U	0.9350	0.4850
V	0.9330	0.4860
W	0.9340	0.4860
X	0.9350	0.4860
Y	0.9340	0.4830
Z	0.9350	0.4850

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Chain	Atom inclusion	Q-score
a	0.9380	0.4840
b	0.9380	0.4850
c	0.9380	0.4850
d	0.9380	0.4840
e	0.9380	0.4840
f	0.9380	0.4840
g	0.9320	0.4850
h	0.9350	0.4850
i	0.9340	0.4830
j	0.9340	0.4840
k	0.9340	0.4850
l	0.9340	0.4860
m	0.9330	0.4850
n	0.9380	0.4860
o	0.9350	0.4850
p	0.9320	0.4850
q	0.9340	0.4850
r	0.9350	0.4850
s	0.9350	0.4840
t	0.9350	0.4860
u	0.9330	0.4830
v	0.9380	0.4850
w	0.9350	0.4840
x	0.9330	0.4830
y	0.9380	0.4850
z	0.9350	0.4830