



Full wwPDB EM Validation Report ⓘ

Mar 9, 2026 – 06:59 AM UTC

PDB ID : 9CV9 / pdb_00009cv9
EMDB ID : EMD-45958
Title : Bufavirus 1 at pH 4.0
Authors : Gulkis, M.C.; McKenna, R.; Bennett, A.D.
Deposited on : 2024-07-28
Resolution : 3.20 Å(reported)
Based on initial model : 6BWV

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:

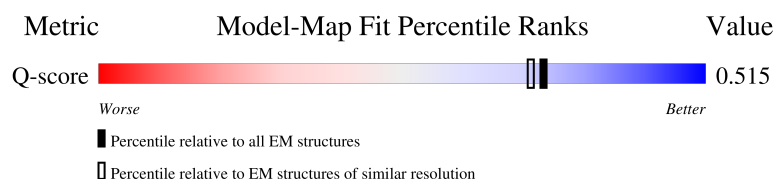
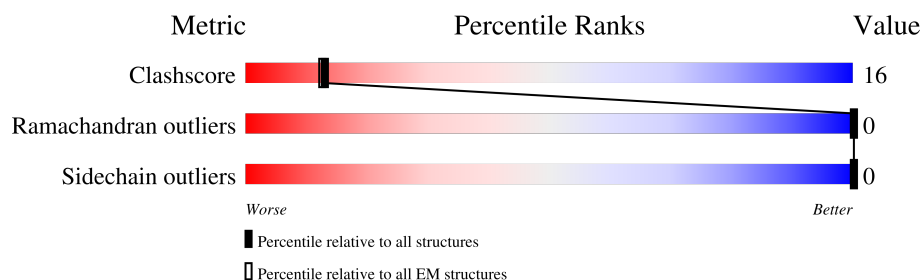
EMDB validation analysis : 0.0.1.dev132
MolProbity : 4-5-2 with Phenix2.0
Percentile statistics : 20250101.v01 (using entries in the PDB archive January 1st 2025)
EM percentile statistics : 202505.v01 (Using data in the EMD archive up until May 2025)
MapQ : 1.9.13
Ideal geometry (proteins) : Engh & Huber (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 3.20 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.



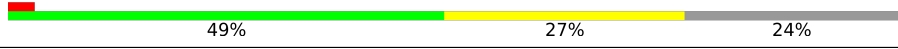
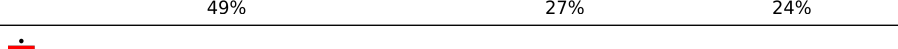
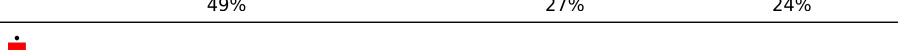
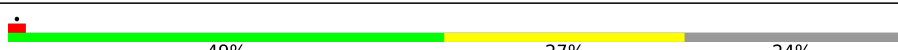
Metric	Whole archive (#Entries)	EM structures (#Entries)	Similar EM resolution (#Entries, resolution range(Å))
Clashscore	229148	23984	-
Ramachandran outliers	224038	23583	-
Sidechain outliers	223484	23102	-
Q-score	-	25397	15020 (2.70 - 3.70)

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

Mol	Chain	Length	Quality of chain
1	1	707	
1	2	707	
1	3	707	
1	4	707	

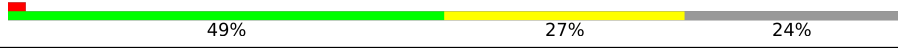
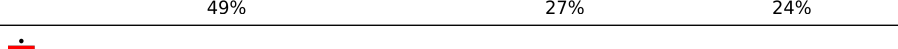
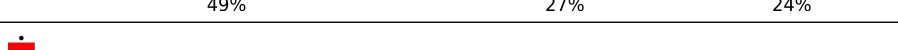
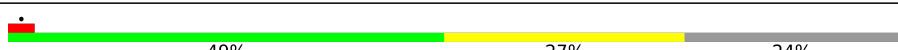
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Mol	Chain	Length	Quality of chain
1	5	707	
1	6	707	
1	7	707	
1	8	707	
1	A	707	
1	B	707	
1	C	707	
1	D	707	
1	E	707	
1	F	707	
1	G	707	
1	H	707	
1	I	707	
1	J	707	
1	K	707	
1	L	707	
1	M	707	
1	N	707	
1	O	707	
1	P	707	
1	Q	707	
1	R	707	
1	S	707	
1	T	707	
1	U	707	

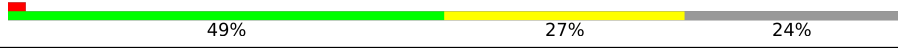
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Mol	Chain	Length	Quality of chain
1	V	707	
1	W	707	
1	X	707	
1	Y	707	
1	Z	707	
1	a	707	
1	b	707	
1	c	707	
1	d	707	
1	e	707	
1	f	707	
1	g	707	
1	h	707	
1	i	707	
1	j	707	
1	k	707	
1	l	707	
1	m	707	
1	n	707	
1	o	707	
1	p	707	
1	q	707	
1	r	707	
1	s	707	
1	t	707	

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Mol	Chain	Length	Quality of chain
1	u	707	
1	v	707	
1	w	707	
1	x	707	
1	y	707	
1	z	707	

2 Entry composition [i](#)

There is only 1 type of molecule in this entry. The entry contains 261540 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 VP1.

Mol	Chain	Residues	Atoms					AltConf	Trace
1	A	537	Total	C	N	O	S	1	0
			4359	2758	765	822	14		
1	B	537	Total	C	N	O	S	1	0
			4359	2758	765	822	14		
1	C	537	Total	C	N	O	S	1	0
			4359	2758	765	822	14		
1	D	537	Total	C	N	O	S	1	0
			4359	2758	765	822	14		
1	E	537	Total	C	N	O	S	1	0
			4359	2758	765	822	14		
1	F	537	Total	C	N	O	S	1	0
			4359	2758	765	822	14		
1	G	537	Total	C	N	O	S	1	0
			4359	2758	765	822	14		
1	H	537	Total	C	N	O	S	1	0
			4359	2758	765	822	14		
1	I	537	Total	C	N	O	S	1	0
			4359	2758	765	822	14		
1	J	537	Total	C	N	O	S	1	0
			4359	2758	765	822	14		
1	K	537	Total	C	N	O	S	1	0
			4359	2758	765	822	14		
1	L	537	Total	C	N	O	S	1	0
			4359	2758	765	822	14		
1	M	537	Total	C	N	O	S	1	0
			4359	2758	765	822	14		
1	N	537	Total	C	N	O	S	1	0
			4359	2758	765	822	14		
1	O	537	Total	C	N	O	S	1	0
			4359	2758	765	822	14		
1	P	537	Total	C	N	O	S	1	0
			4359	2758	765	822	14		
1	Q	537	Total	C	N	O	S	1	0
			4359	2758	765	822	14		

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Mol	Chain	Residues	Atoms					AltConf	Trace
1	R	537	Total 4359	C 2758	N 765	O 822	S 14	1	0
1	S	537	Total 4359	C 2758	N 765	O 822	S 14	1	0
1	T	537	Total 4359	C 2758	N 765	O 822	S 14	1	0
1	U	537	Total 4359	C 2758	N 765	O 822	S 14	1	0
1	V	537	Total 4359	C 2758	N 765	O 822	S 14	1	0
1	W	537	Total 4359	C 2758	N 765	O 822	S 14	1	0
1	X	537	Total 4359	C 2758	N 765	O 822	S 14	1	0
1	Y	537	Total 4359	C 2758	N 765	O 822	S 14	1	0
1	Z	537	Total 4359	C 2758	N 765	O 822	S 14	1	0
1	a	537	Total 4359	C 2758	N 765	O 822	S 14	1	0
1	b	537	Total 4359	C 2758	N 765	O 822	S 14	1	0
1	c	537	Total 4359	C 2758	N 765	O 822	S 14	1	0
1	d	537	Total 4359	C 2758	N 765	O 822	S 14	1	0
1	e	537	Total 4359	C 2758	N 765	O 822	S 14	1	0
1	f	537	Total 4359	C 2758	N 765	O 822	S 14	1	0
1	g	537	Total 4359	C 2758	N 765	O 822	S 14	1	0
1	h	537	Total 4359	C 2758	N 765	O 822	S 14	1	0
1	i	537	Total 4359	C 2758	N 765	O 822	S 14	1	0
1	j	537	Total 4359	C 2758	N 765	O 822	S 14	1	0
1	k	537	Total 4359	C 2758	N 765	O 822	S 14	1	0
1	l	537	Total 4359	C 2758	N 765	O 822	S 14	1	0

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Mol	Chain	Residues	Atoms					AltConf	Trace
1	m	537	Total	C	N	O	S	1	0
			4359	2758	765	822	14		
1	n	537	Total	C	N	O	S	1	0
			4359	2758	765	822	14		
1	o	537	Total	C	N	O	S	1	0
			4359	2758	765	822	14		
1	p	537	Total	C	N	O	S	1	0
			4359	2758	765	822	14		
1	q	537	Total	C	N	O	S	1	0
			4359	2758	765	822	14		
1	r	537	Total	C	N	O	S	1	0
			4359	2758	765	822	14		
1	s	537	Total	C	N	O	S	1	0
			4359	2758	765	822	14		
1	t	537	Total	C	N	O	S	1	0
			4359	2758	765	822	14		
1	u	537	Total	C	N	O	S	1	0
			4359	2758	765	822	14		
1	v	537	Total	C	N	O	S	1	0
			4359	2758	765	822	14		
1	w	537	Total	C	N	O	S	1	0
			4359	2758	765	822	14		
1	x	537	Total	C	N	O	S	1	0
			4359	2758	765	822	14		
1	y	537	Total	C	N	O	S	1	0
			4359	2758	765	822	14		
1	z	537	Total	C	N	O	S	1	0
			4359	2758	765	822	14		
1	1	537	Total	C	N	O	S	1	0
			4359	2758	765	822	14		
1	2	537	Total	C	N	O	S	1	0
			4359	2758	765	822	14		
1	3	537	Total	C	N	O	S	1	0
			4359	2758	765	822	14		
1	4	537	Total	C	N	O	S	1	0
			4359	2758	765	822	14		
1	5	537	Total	C	N	O	S	1	0
			4359	2758	765	822	14		
1	6	537	Total	C	N	O	S	1	0
			4359	2758	765	822	14		
1	7	537	Total	C	N	O	S	1	0
			4359	2758	765	822	14		

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Mol	Chain	Residues	Atoms					AltConf	Trace
1	8	537	Total	C	N	O	S	1	0
			4359	2758	765	822	14		

There are 60 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
A	35	VAL	ILE	conflict	UNP A0A097PIM0
B	35	VAL	ILE	conflict	UNP A0A097PIM0
C	35	VAL	ILE	conflict	UNP A0A097PIM0
D	35	VAL	ILE	conflict	UNP A0A097PIM0
E	35	VAL	ILE	conflict	UNP A0A097PIM0
F	35	VAL	ILE	conflict	UNP A0A097PIM0
G	35	VAL	ILE	conflict	UNP A0A097PIM0
H	35	VAL	ILE	conflict	UNP A0A097PIM0
I	35	VAL	ILE	conflict	UNP A0A097PIM0
J	35	VAL	ILE	conflict	UNP A0A097PIM0
K	35	VAL	ILE	conflict	UNP A0A097PIM0
L	35	VAL	ILE	conflict	UNP A0A097PIM0
M	35	VAL	ILE	conflict	UNP A0A097PIM0
N	35	VAL	ILE	conflict	UNP A0A097PIM0
O	35	VAL	ILE	conflict	UNP A0A097PIM0
P	35	VAL	ILE	conflict	UNP A0A097PIM0
Q	35	VAL	ILE	conflict	UNP A0A097PIM0
R	35	VAL	ILE	conflict	UNP A0A097PIM0
S	35	VAL	ILE	conflict	UNP A0A097PIM0
T	35	VAL	ILE	conflict	UNP A0A097PIM0
U	35	VAL	ILE	conflict	UNP A0A097PIM0
V	35	VAL	ILE	conflict	UNP A0A097PIM0
W	35	VAL	ILE	conflict	UNP A0A097PIM0
X	35	VAL	ILE	conflict	UNP A0A097PIM0
Y	35	VAL	ILE	conflict	UNP A0A097PIM0
Z	35	VAL	ILE	conflict	UNP A0A097PIM0
a	35	VAL	ILE	conflict	UNP A0A097PIM0
b	35	VAL	ILE	conflict	UNP A0A097PIM0
c	35	VAL	ILE	conflict	UNP A0A097PIM0
d	35	VAL	ILE	conflict	UNP A0A097PIM0
e	35	VAL	ILE	conflict	UNP A0A097PIM0
f	35	VAL	ILE	conflict	UNP A0A097PIM0
g	35	VAL	ILE	conflict	UNP A0A097PIM0
h	35	VAL	ILE	conflict	UNP A0A097PIM0
i	35	VAL	ILE	conflict	UNP A0A097PIM0
j	35	VAL	ILE	conflict	UNP A0A097PIM0

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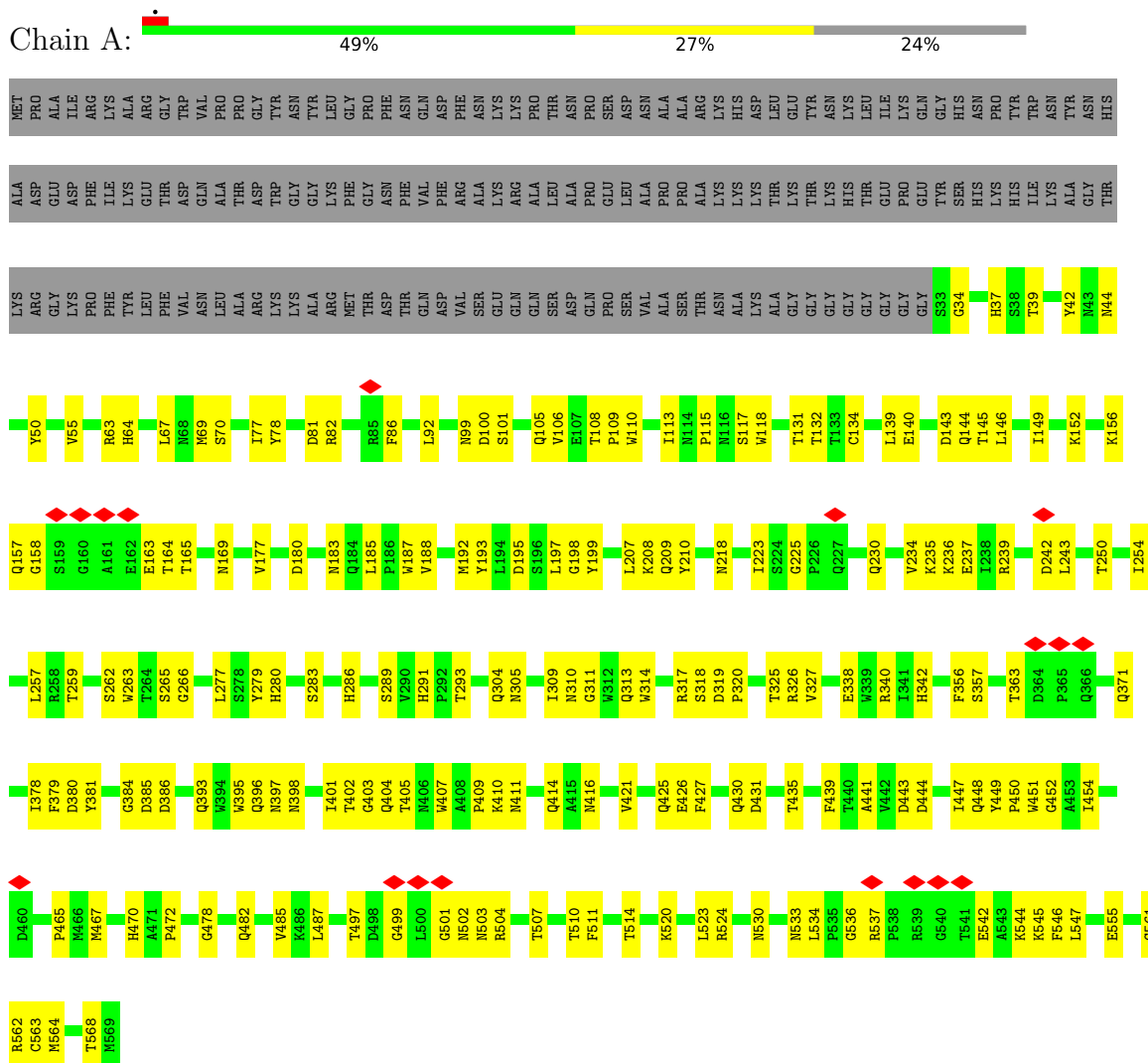
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Chain	Residue	Modelled	Actual	Comment	Reference
k	35	VAL	ILE	conflict	UNP A0A097PIM0
l	35	VAL	ILE	conflict	UNP A0A097PIM0
m	35	VAL	ILE	conflict	UNP A0A097PIM0
n	35	VAL	ILE	conflict	UNP A0A097PIM0
o	35	VAL	ILE	conflict	UNP A0A097PIM0
p	35	VAL	ILE	conflict	UNP A0A097PIM0
q	35	VAL	ILE	conflict	UNP A0A097PIM0
r	35	VAL	ILE	conflict	UNP A0A097PIM0
s	35	VAL	ILE	conflict	UNP A0A097PIM0
t	35	VAL	ILE	conflict	UNP A0A097PIM0
u	35	VAL	ILE	conflict	UNP A0A097PIM0
v	35	VAL	ILE	conflict	UNP A0A097PIM0
w	35	VAL	ILE	conflict	UNP A0A097PIM0
x	35	VAL	ILE	conflict	UNP A0A097PIM0
y	35	VAL	ILE	conflict	UNP A0A097PIM0
z	35	VAL	ILE	conflict	UNP A0A097PIM0
1	35	VAL	ILE	conflict	UNP A0A097PIM0
2	35	VAL	ILE	conflict	UNP A0A097PIM0
3	35	VAL	ILE	conflict	UNP A0A097PIM0
4	35	VAL	ILE	conflict	UNP A0A097PIM0
5	35	VAL	ILE	conflict	UNP A0A097PIM0
6	35	VAL	ILE	conflict	UNP A0A097PIM0
7	35	VAL	ILE	conflict	UNP A0A097PIM0
8	35	VAL	ILE	conflict	UNP A0A097PIM0

3 Residue-property plots

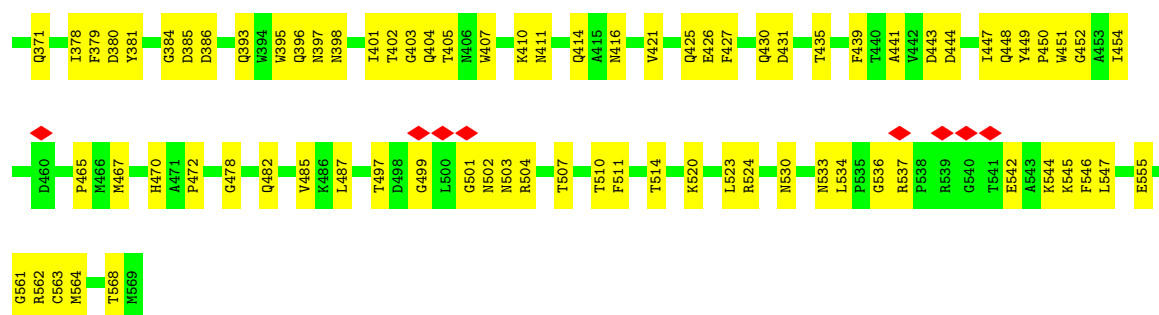
These plots are drawn for all protein, RNA, DNA and oligosaccharide chains in the entry. The first graphic for a chain summarises the proportions of the various outlier classes displayed in the second graphic. The second graphic shows the sequence view annotated by issues in geometry and atom inclusion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

• Molecule 1: VP1

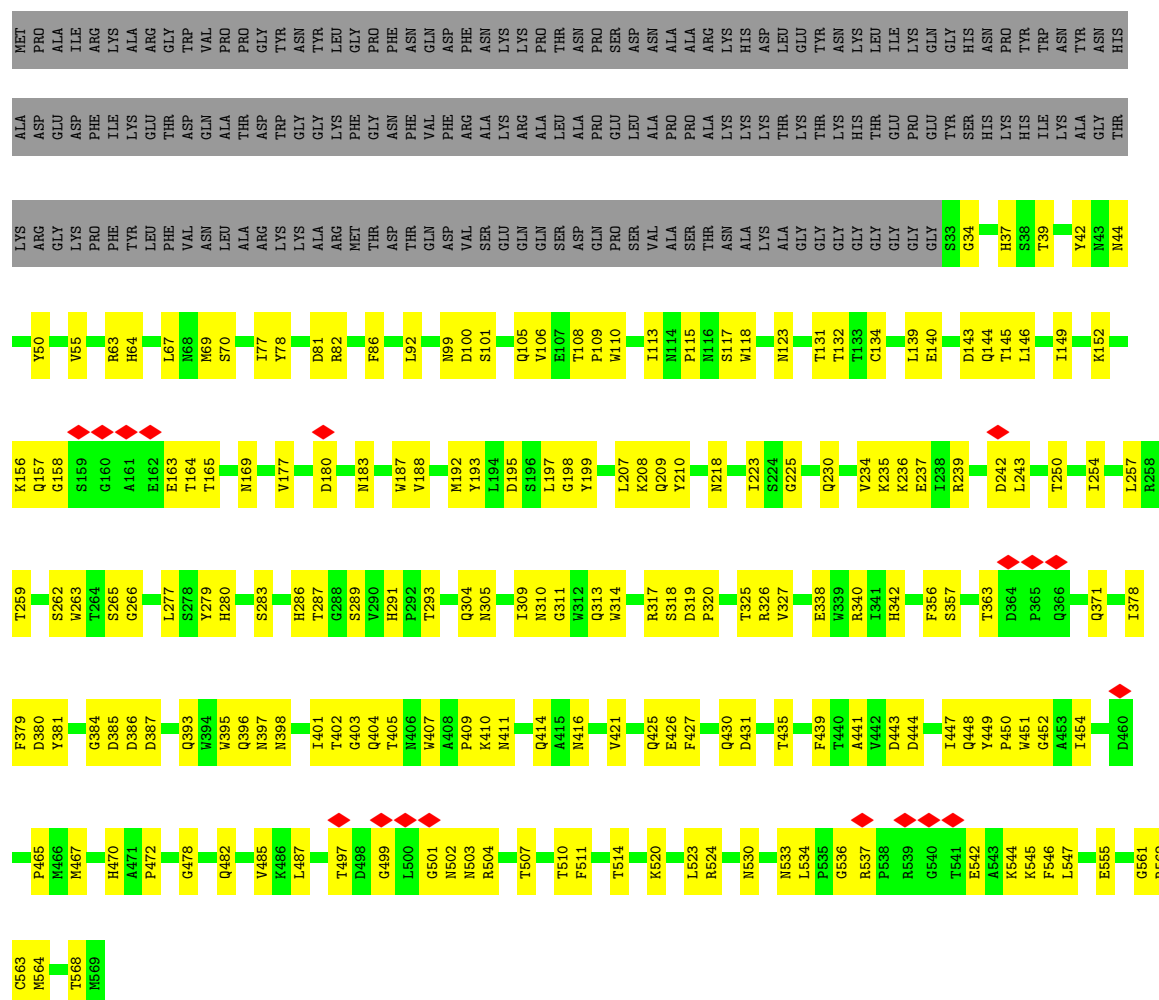


• Molecule 1: VP1

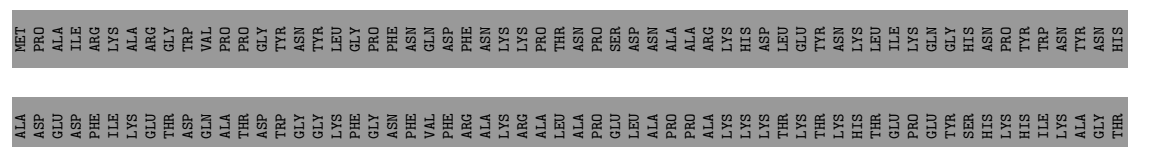


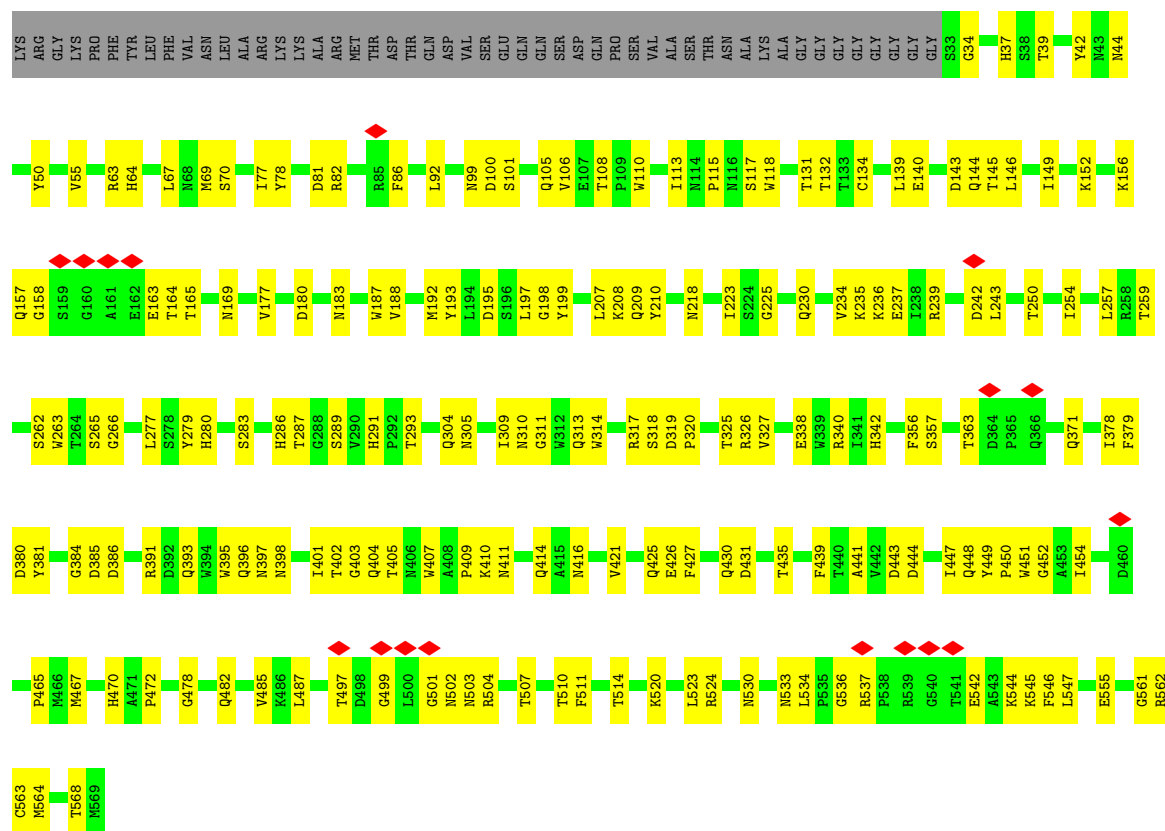


• Molecule 1: VP1

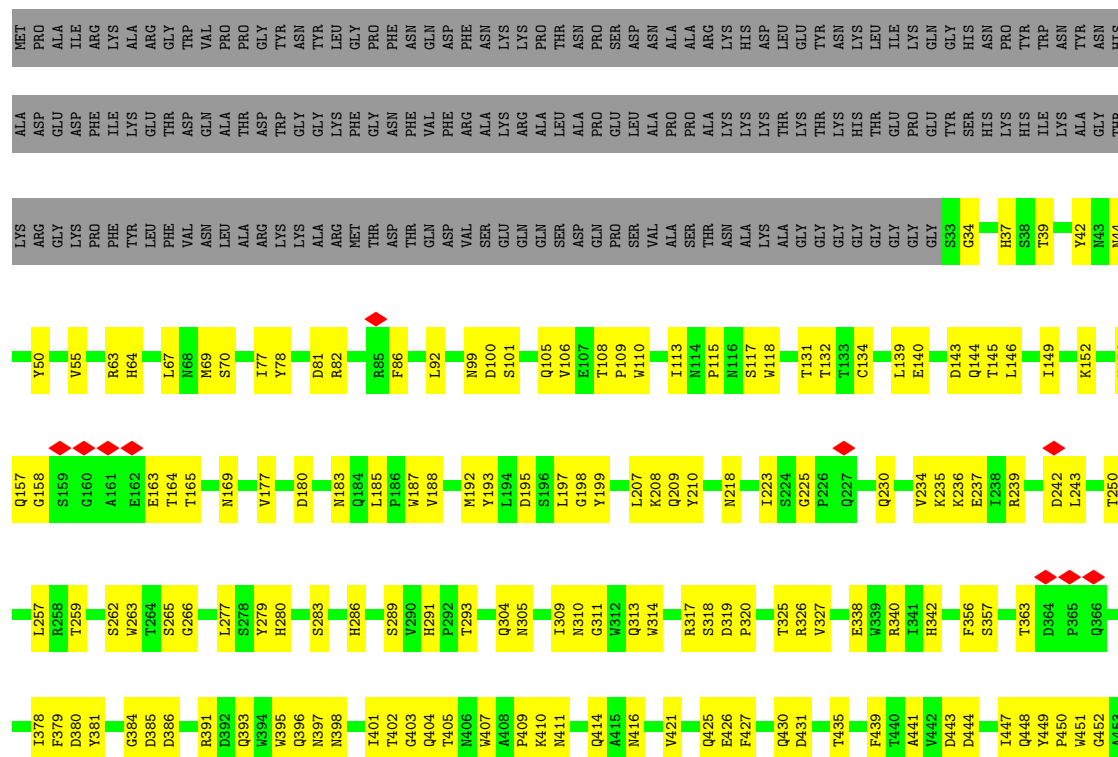


• Molecule 1: VP1

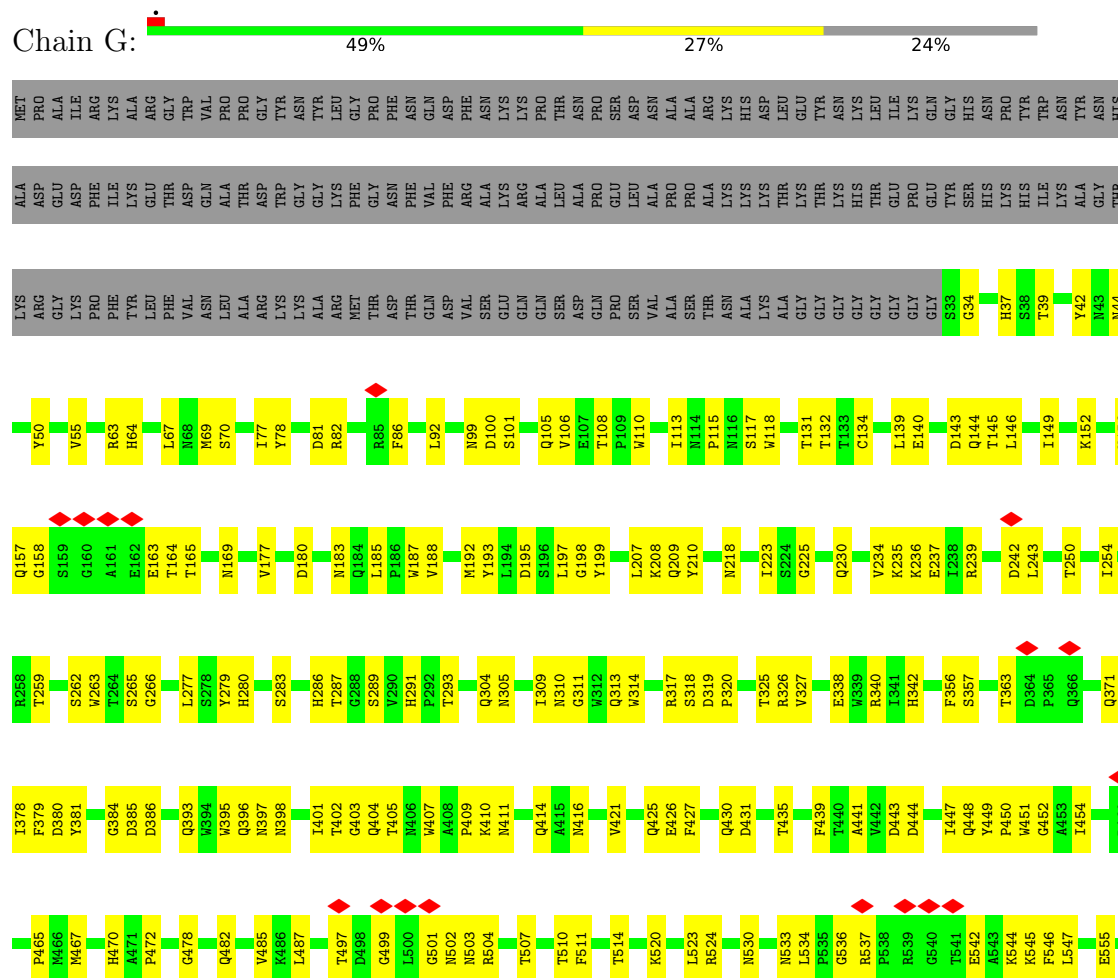




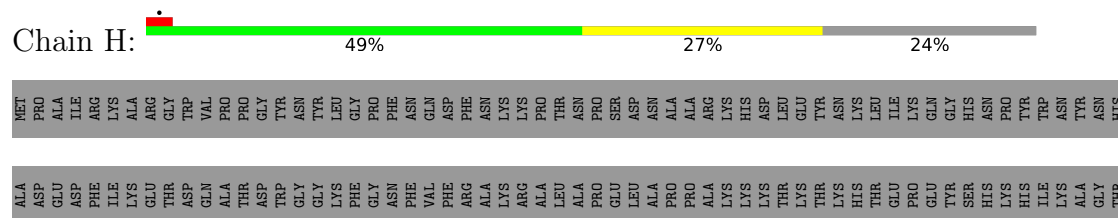
• Molecule 1: VP1

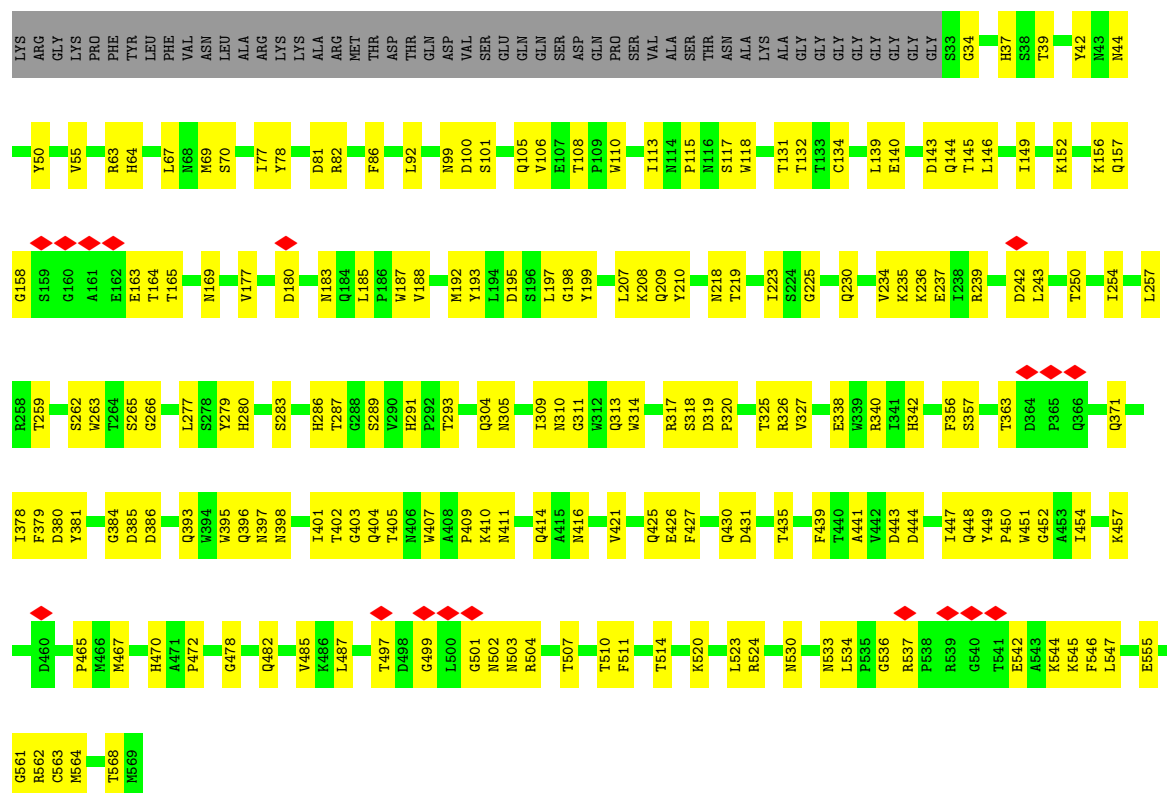


- Molecule 1: VP1



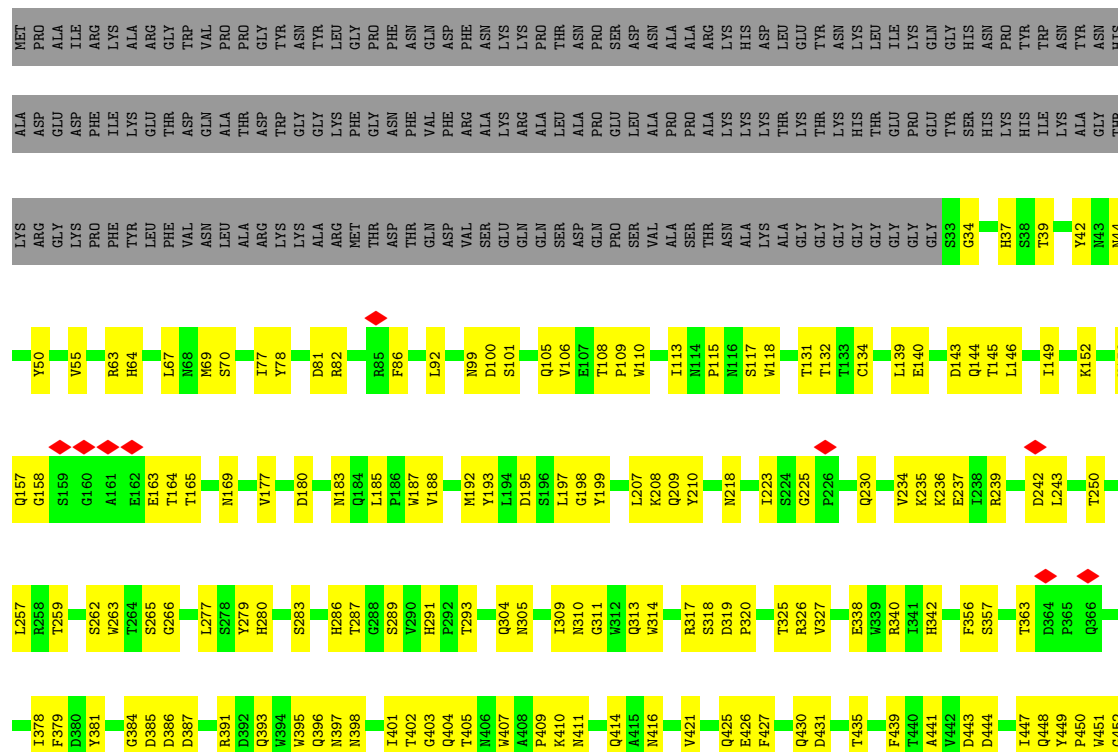
- Molecule 1: VP1





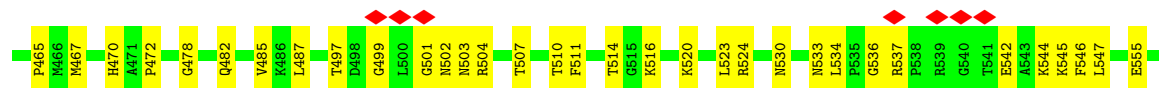
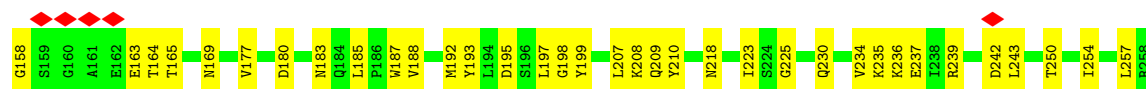
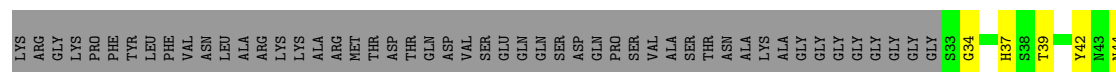
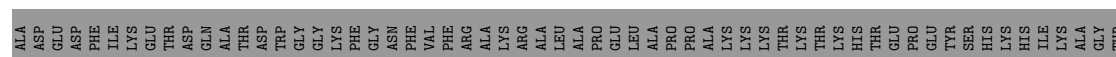
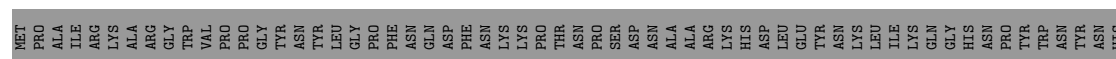
• Molecule 1: VP1

Chain I: 49% 27% 24%

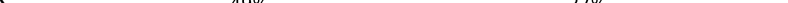


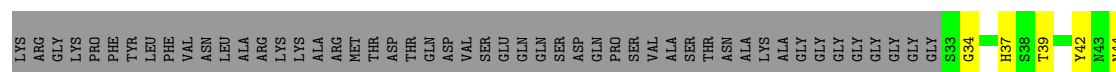
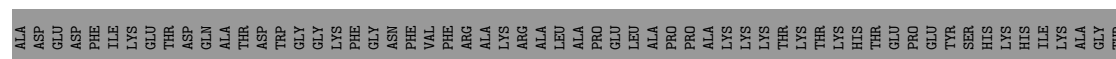
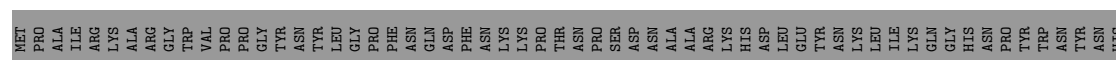
- Molecule 1: VP1

Chain J:

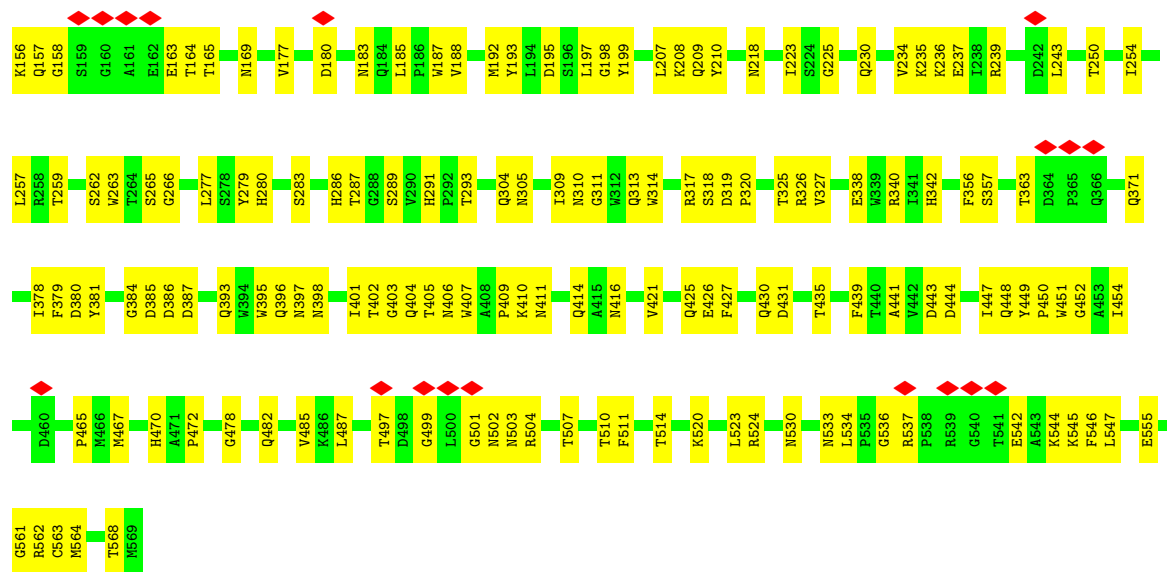


- Molecule 1: VP1

Chain K: 

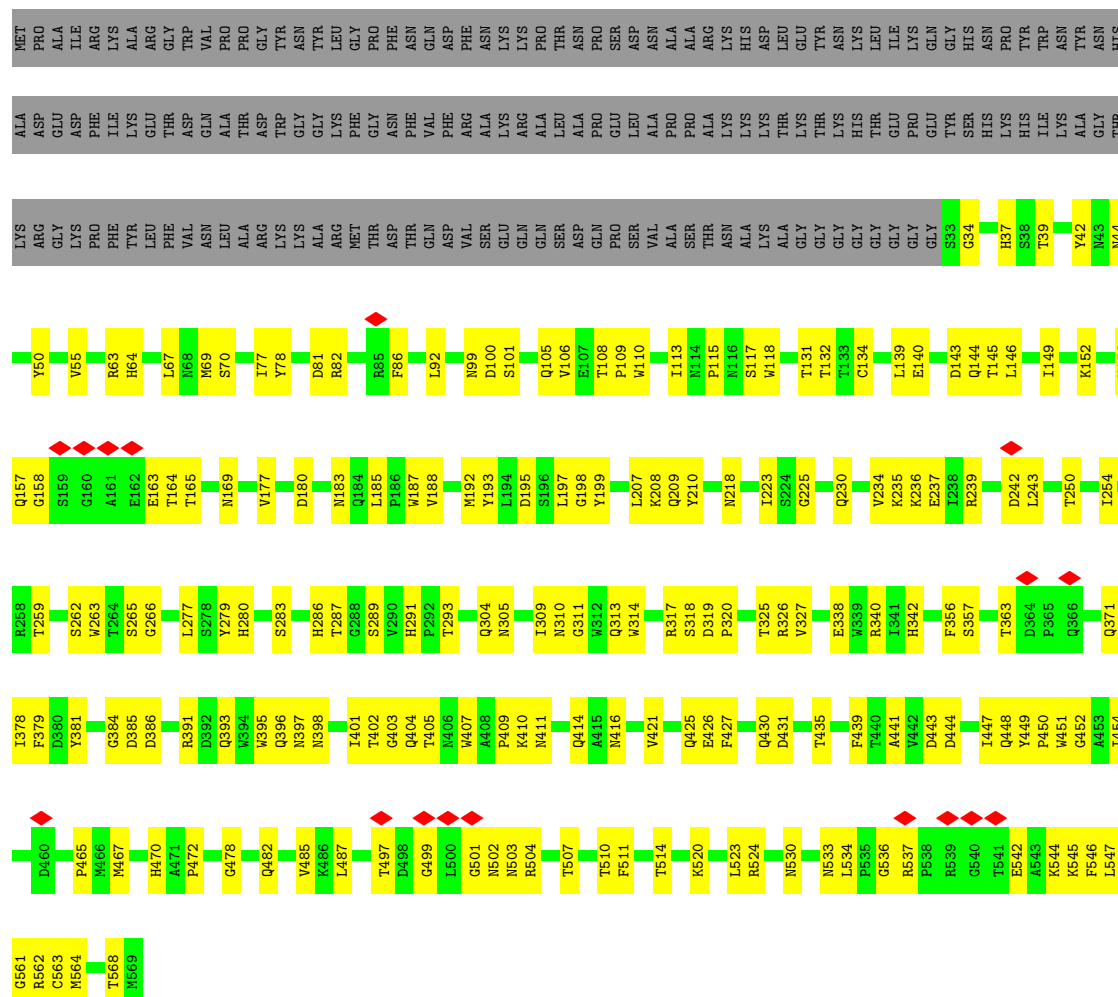


[illegible]



• Molecule 1: VP1

Chain O: 49% 27% 24%



Chain P:

[illegible]

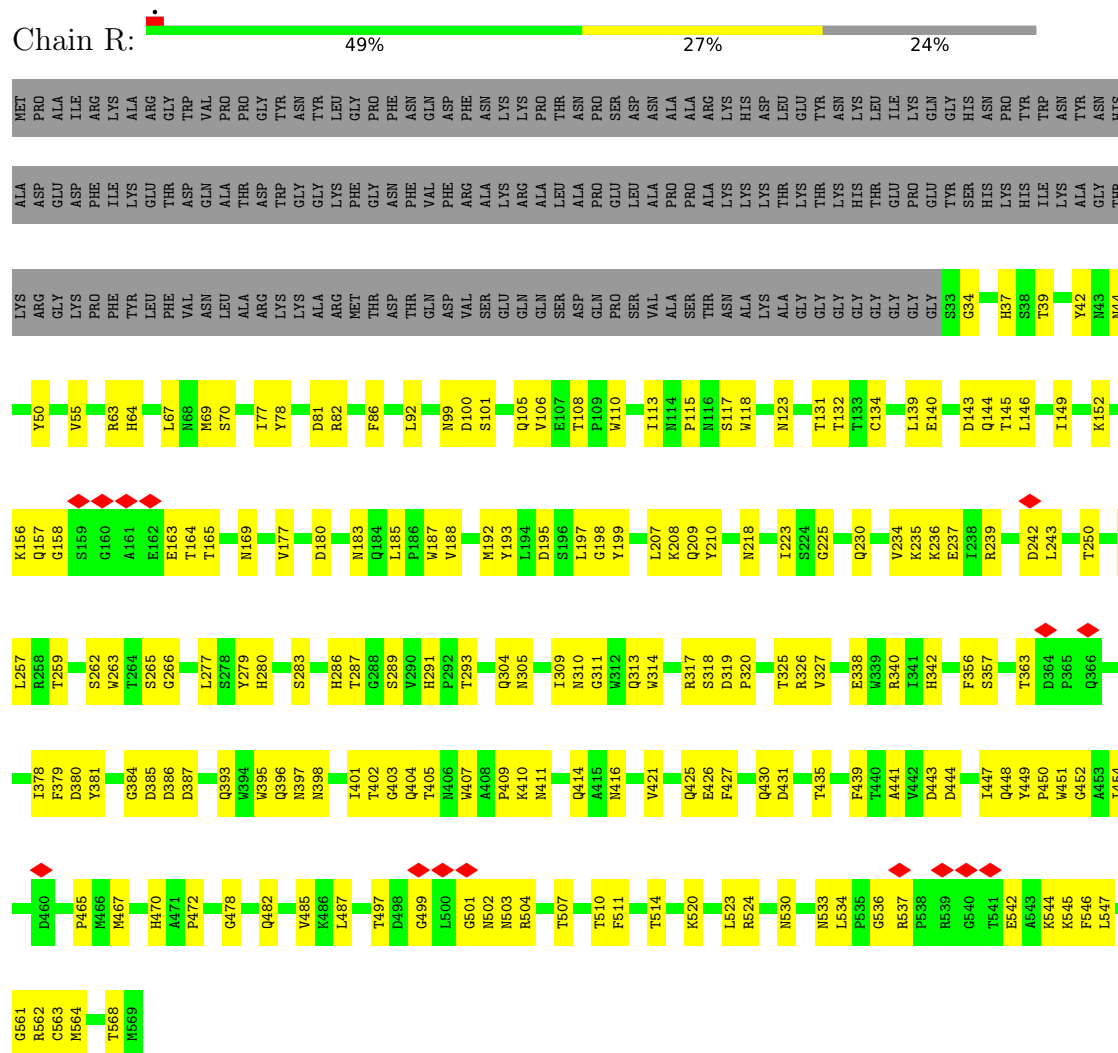
Chain Q:

[illegible]



• Molecule 1: VP1

Chain R:

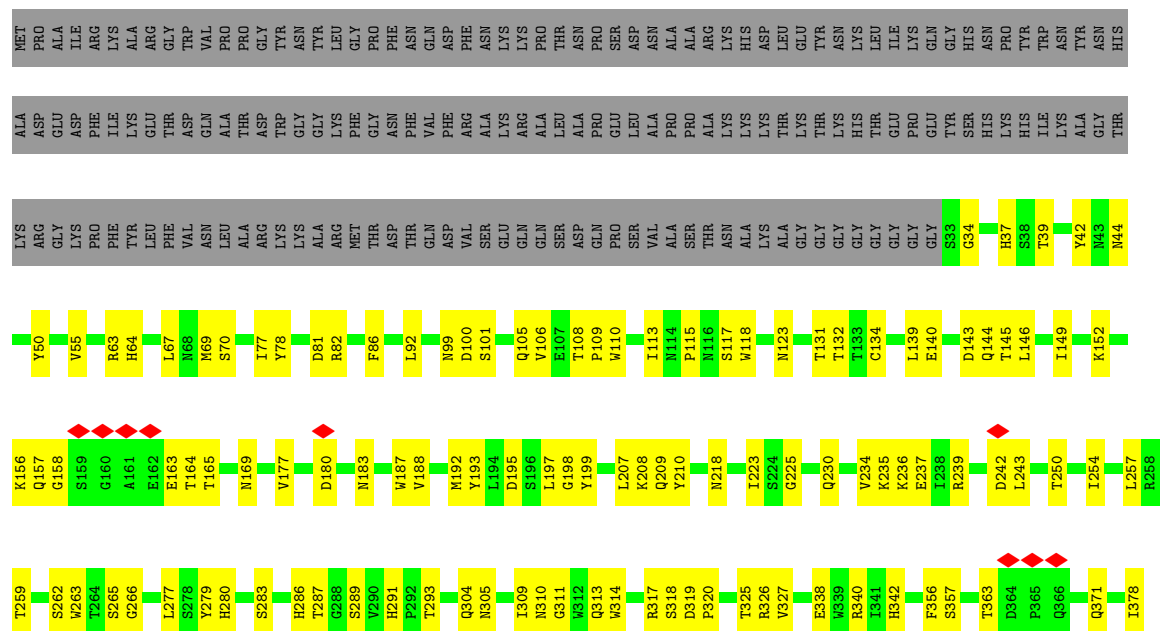


• Molecule 1: VP1

Chain S:

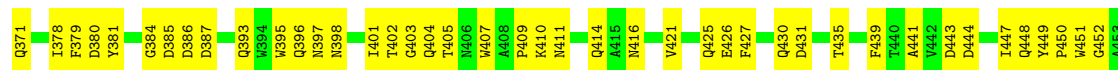
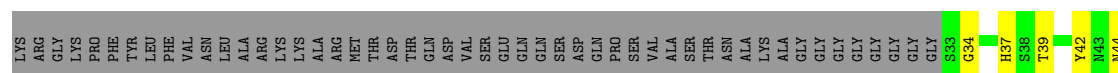




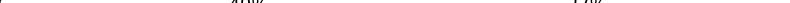


- Molecule 1: VP1

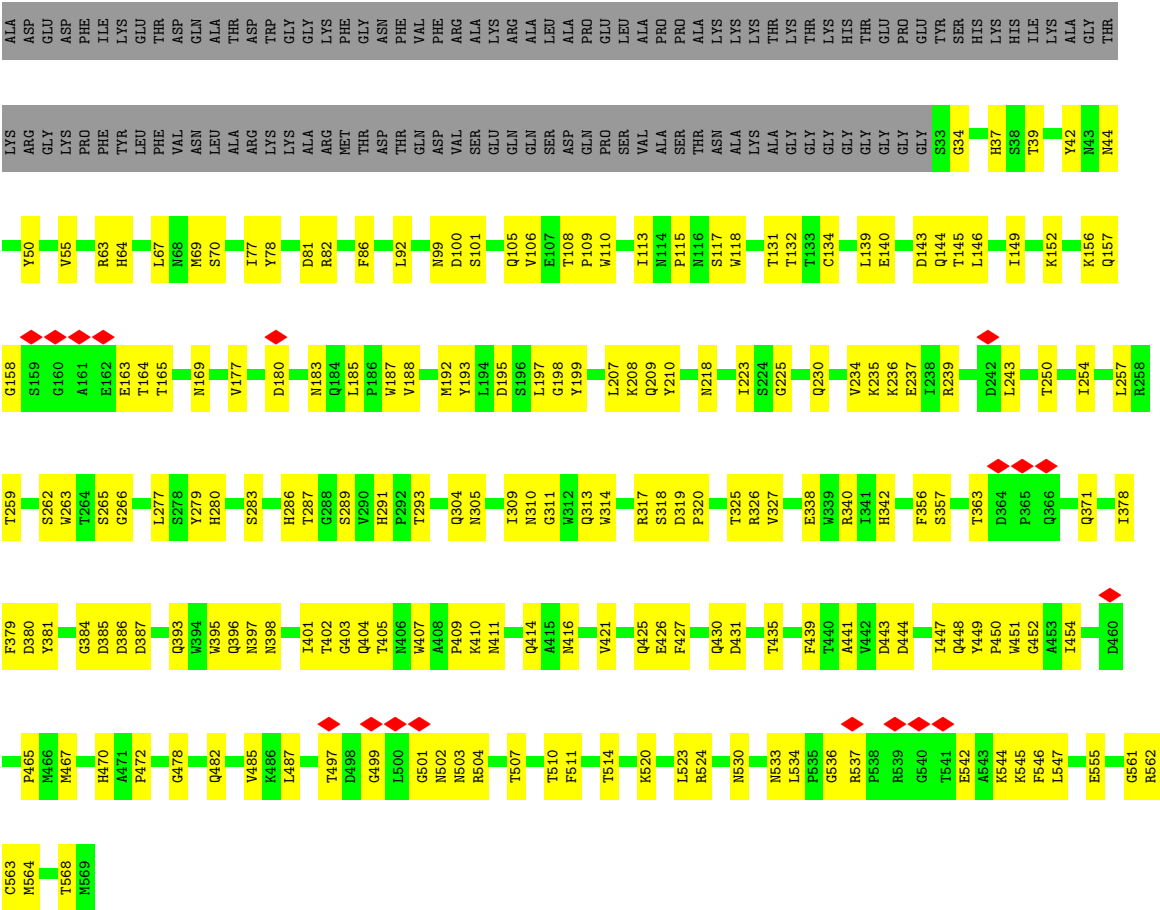
Chain X:



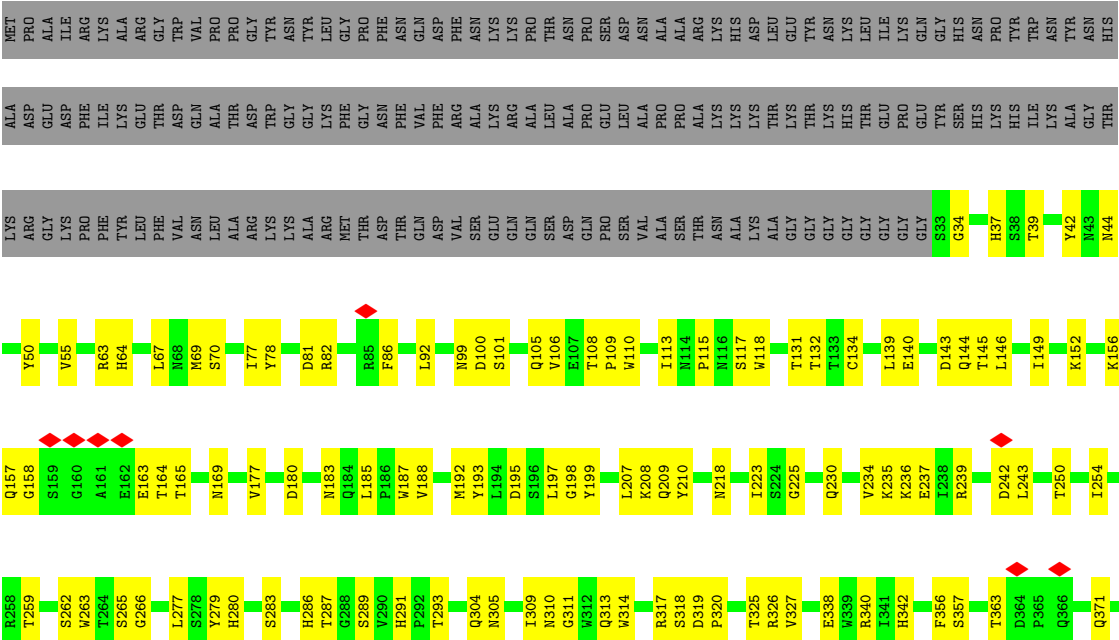
- Molecule 1: VP1

Chain Y: 



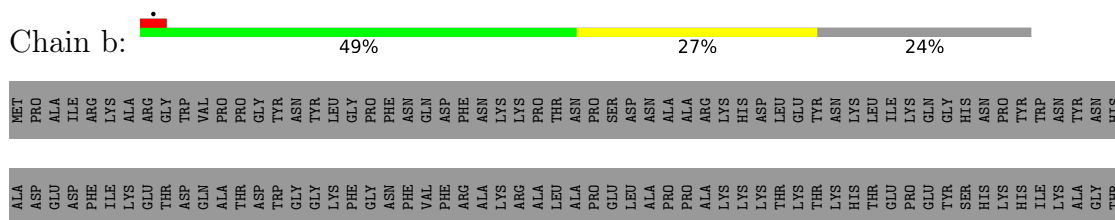


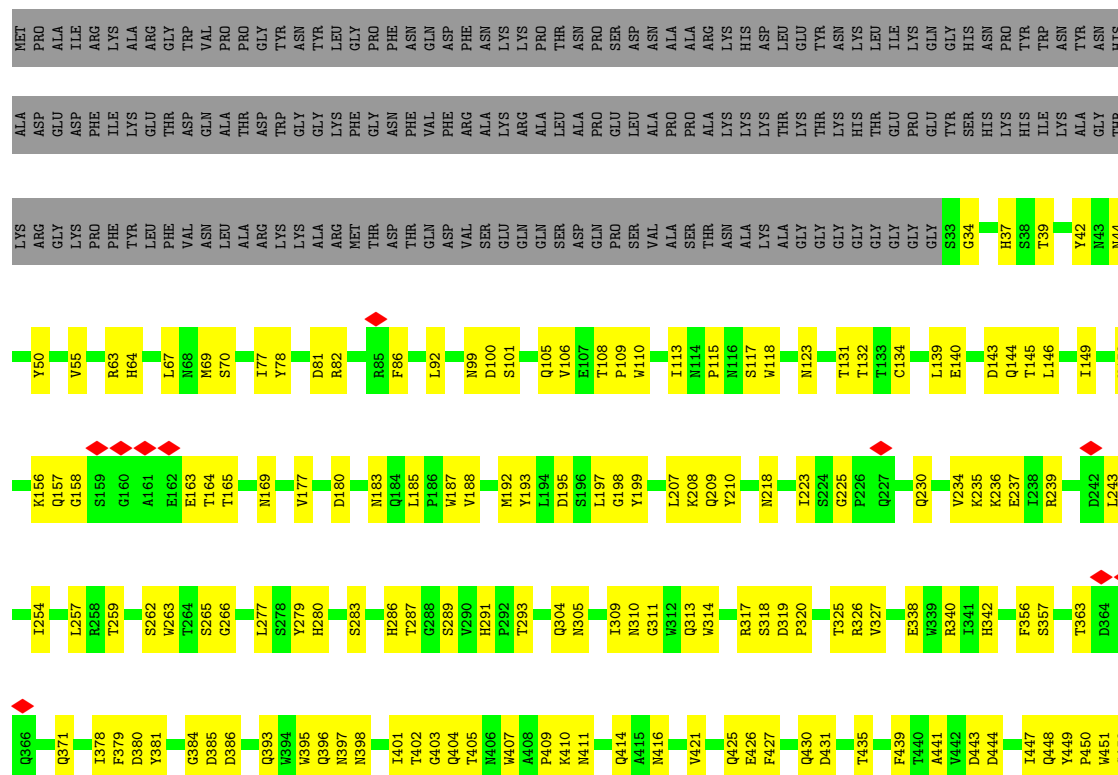
● Molecule 1: VP1

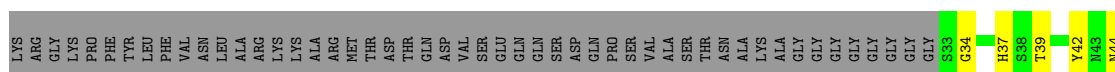


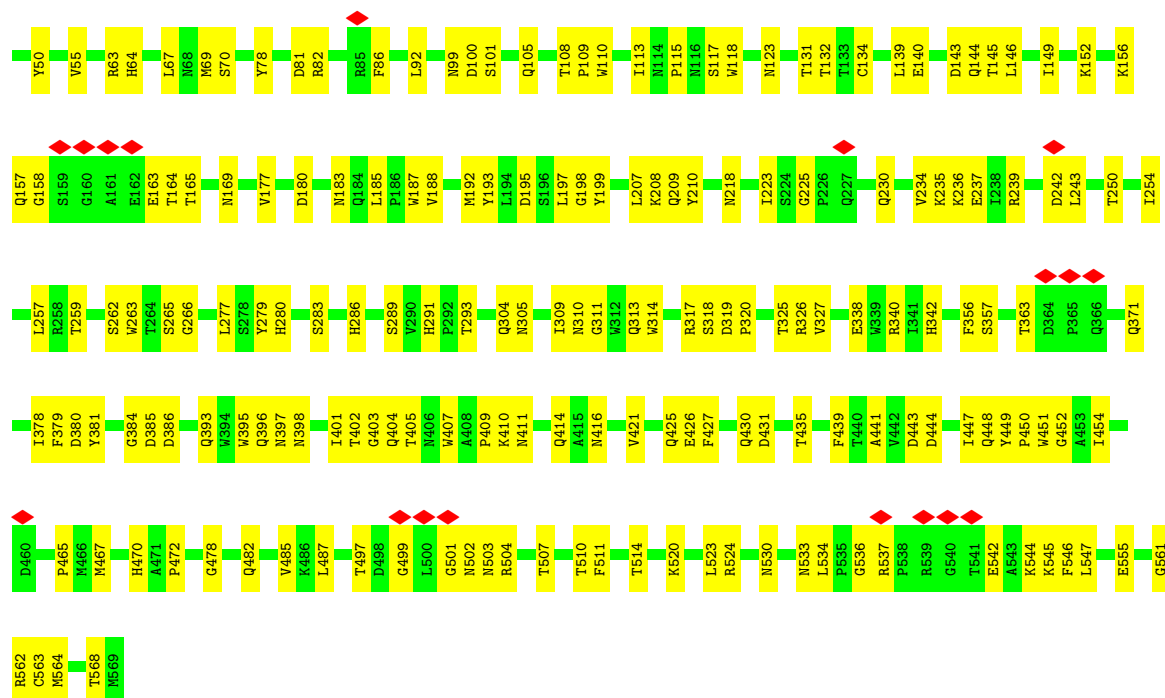
- Molecule 1: VP1

- Molecule 1: VP1

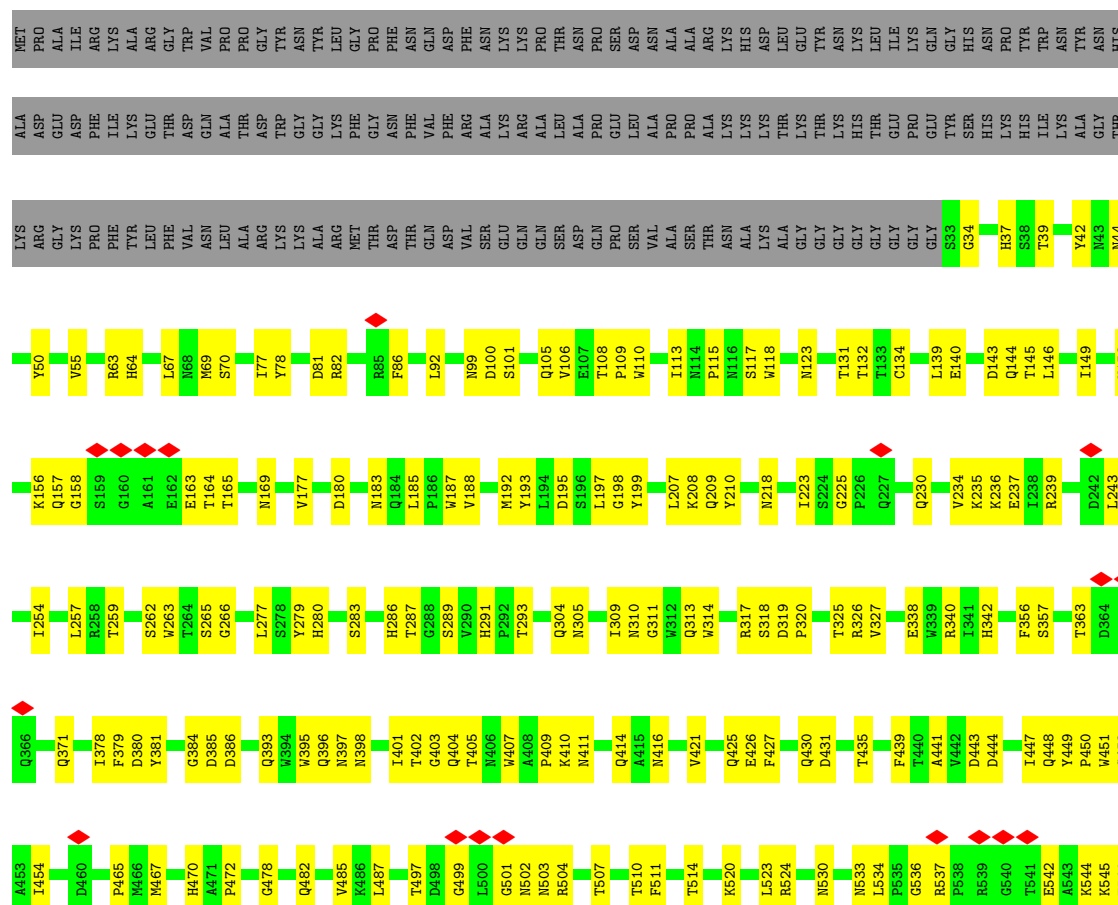








• Molecule 1: VP1





• Molecule 1: VP1



MET PRO ALA GLY ILE ARG ARG LYS LYS ALA ARG ARG
 MET PRO ALA GLY ILE ARG ARG LYS LYS ALA ARG ARG

ALA ASP GLU ASP PHE ILE LYS LYS THR ASP ASP VAL ASP VAL
 ALA ASP GLU ASP PHE ILE LYS LYS THR ASP ASP VAL ASP VAL

LYS ARG GLY LYS PRO PHE TYR LEU VAL ASN LEU ALA ARG
 LYS ARG GLY LYS PRO PHE TYR LEU VAL ASN LEU ALA ARG

Y50 Y55 Y63 Y64 Y67 Y68 Y69 S70 Y77 Y78 Y81 Y82
 Y50 Y55 Y63 Y64 Y67 Y68 Y69 S70 Y77 Y78 Y81 Y82

Q167 G168 S159 G160 A161 F162 E163 T164 T165
 Q167 G168 S159 G160 A161 F162 E163 T164 T165

R258 T259 S262 W263 T264 S265 G266 L277 S278
 R258 T259 S262 W263 T264 S265 G266 L277 S278

I378 F379 D380 Y381 G384 D385 D386 Q393 W394
 I378 F379 D380 Y381 G384 D385 D386 Q393 W394

P465 M466 M467 H470 A471 P472 G478 Q482
 P465 M466 M467 H470 A471 P472 G478 Q482



• Molecule 1: VP1

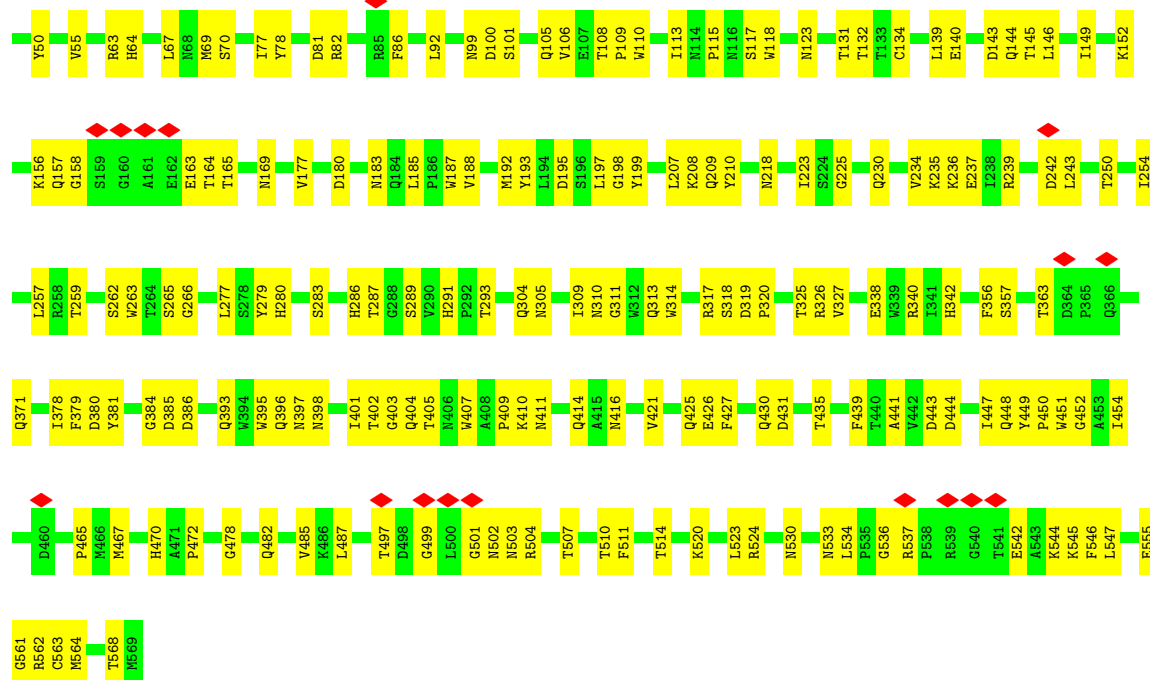


MET PRO ALA GLY ILE ARG ARG LYS LYS ALA ARG ARG
 MET PRO ALA GLY ILE ARG ARG LYS LYS ALA ARG ARG

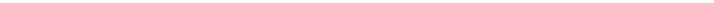
ALA ASP GLU ASP PHE ILE LYS LYS THR ASP ASP VAL ASP VAL
 ALA ASP GLU ASP PHE ILE LYS LYS THR ASP ASP VAL ASP VAL

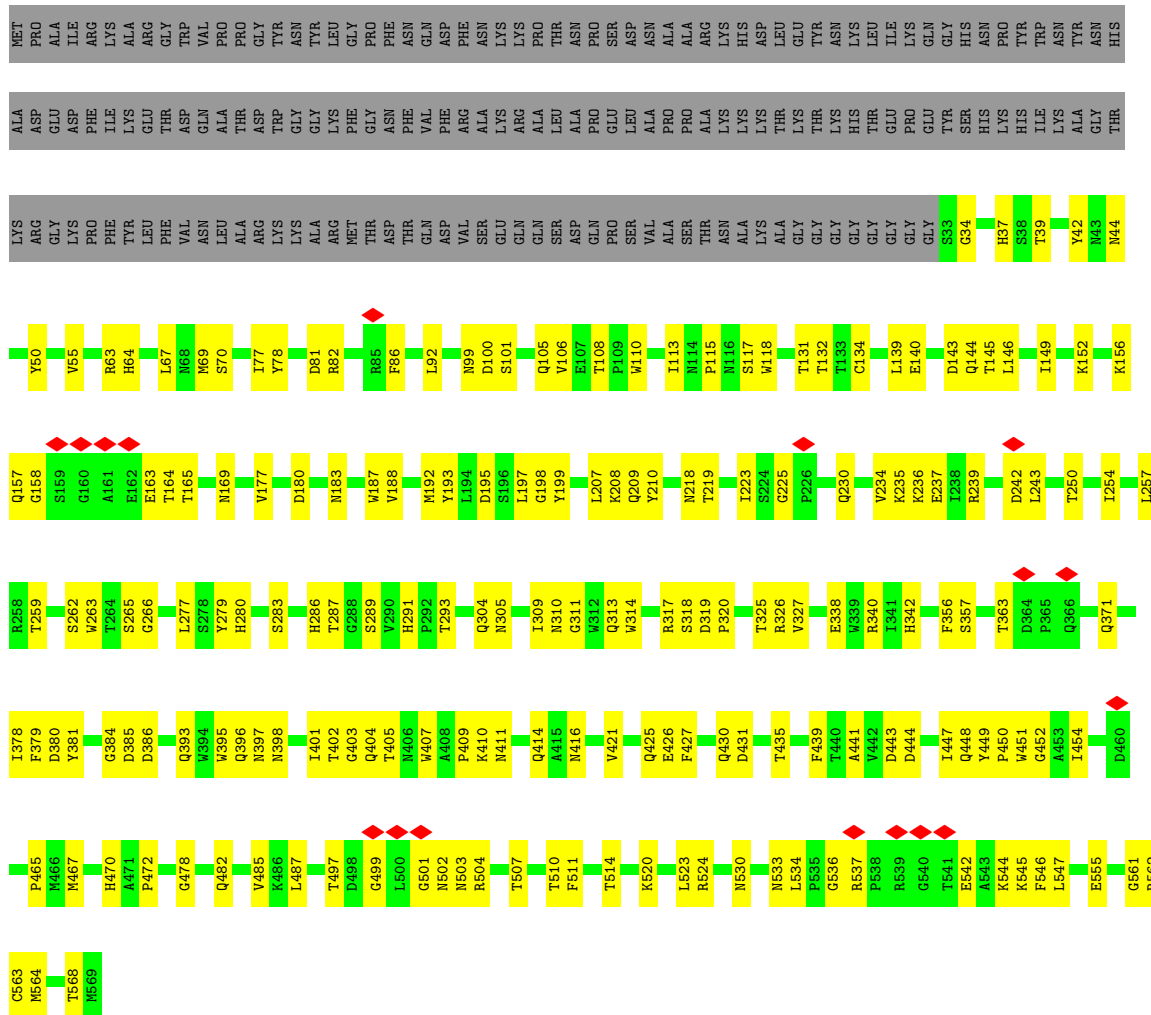
LYS ARG GLY LYS PRO PHE TYR LEU VAL ASN LEU ALA ARG
 LYS ARG GLY LYS PRO PHE TYR LEU VAL ASN LEU ALA ARG

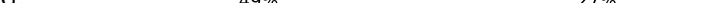


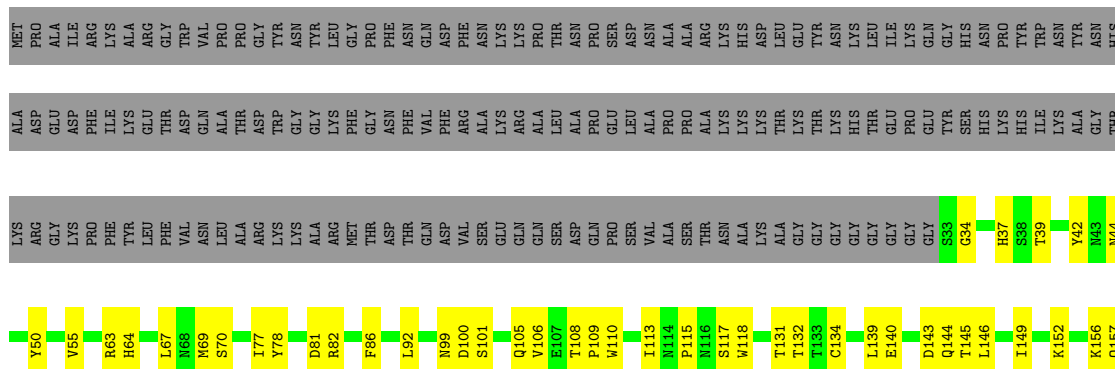


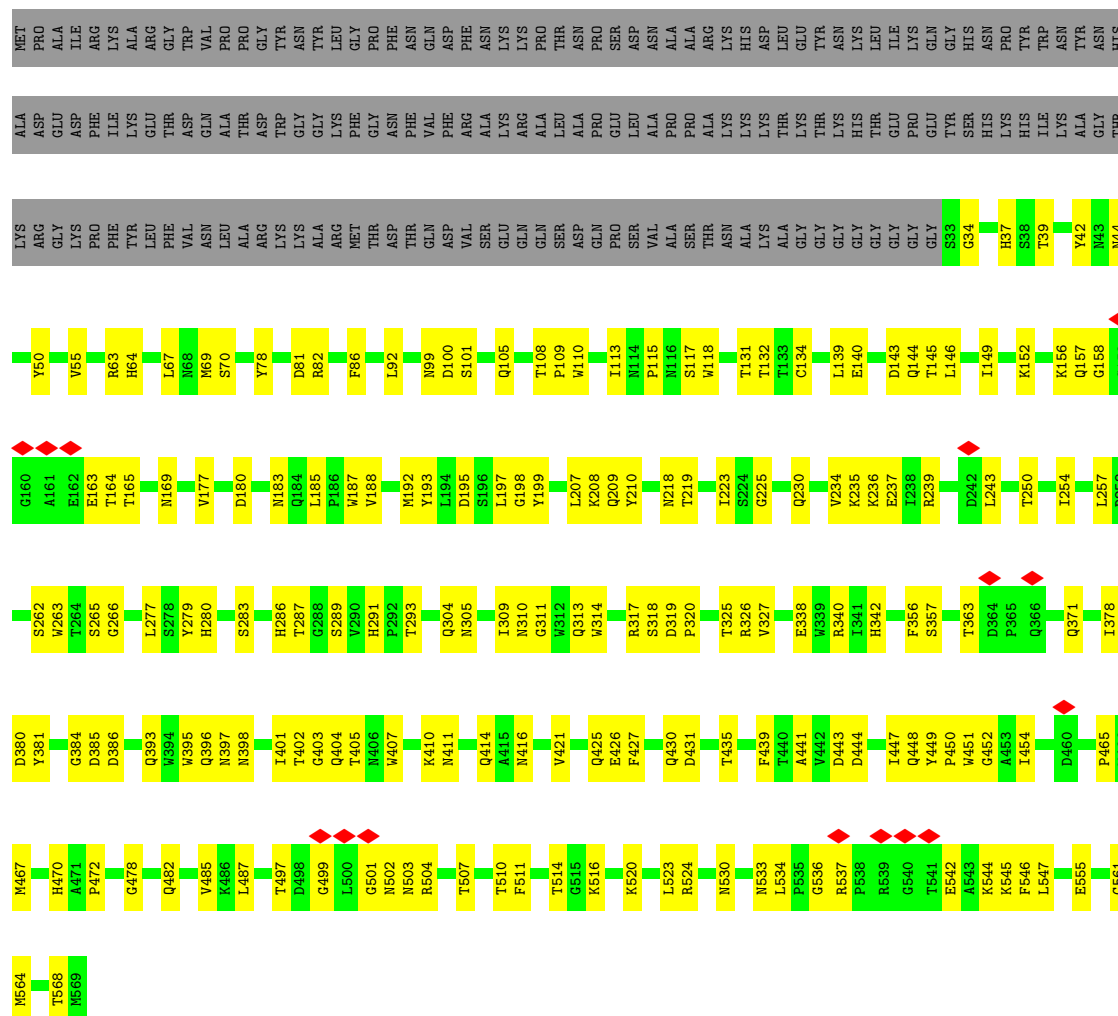


Chain p: 

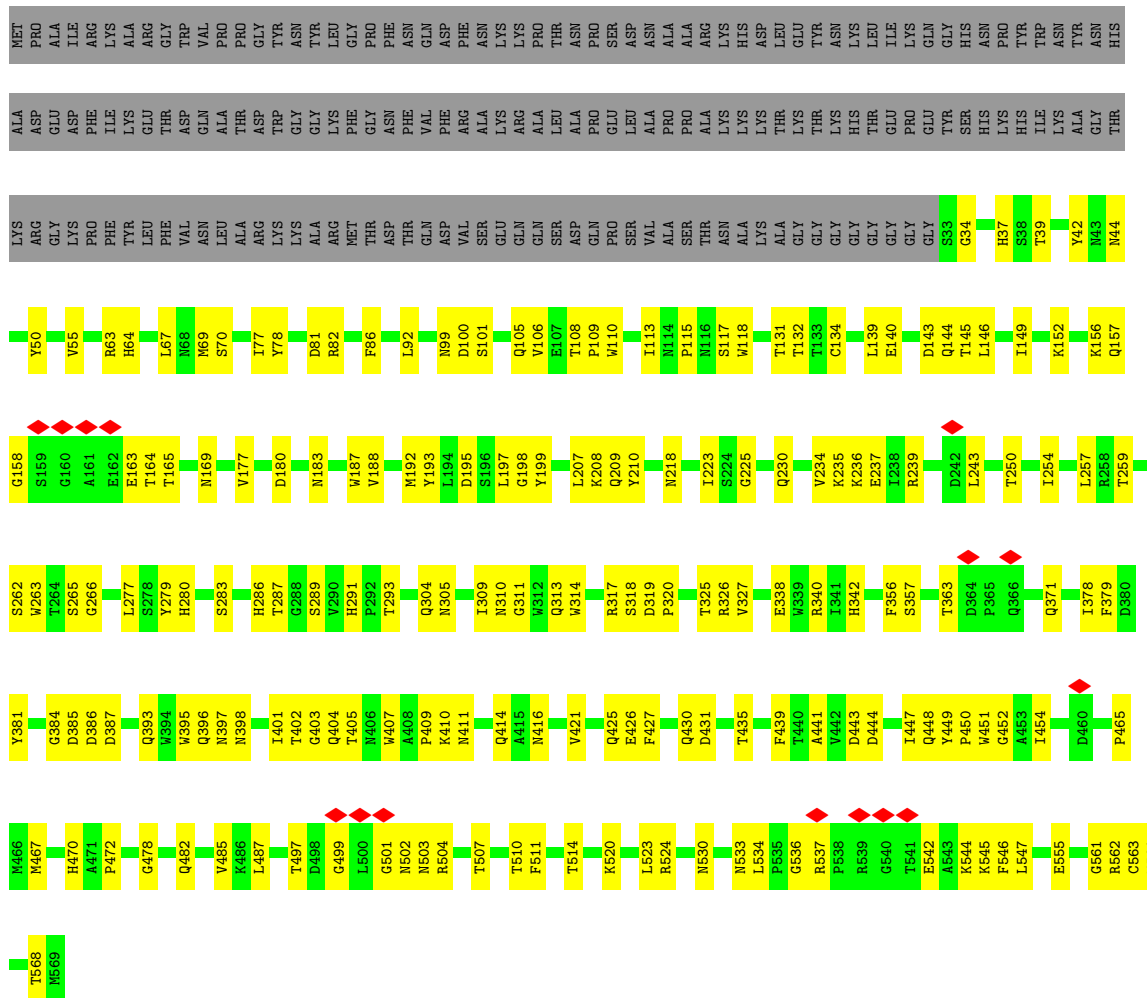


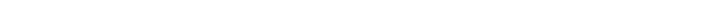
Chain q: 

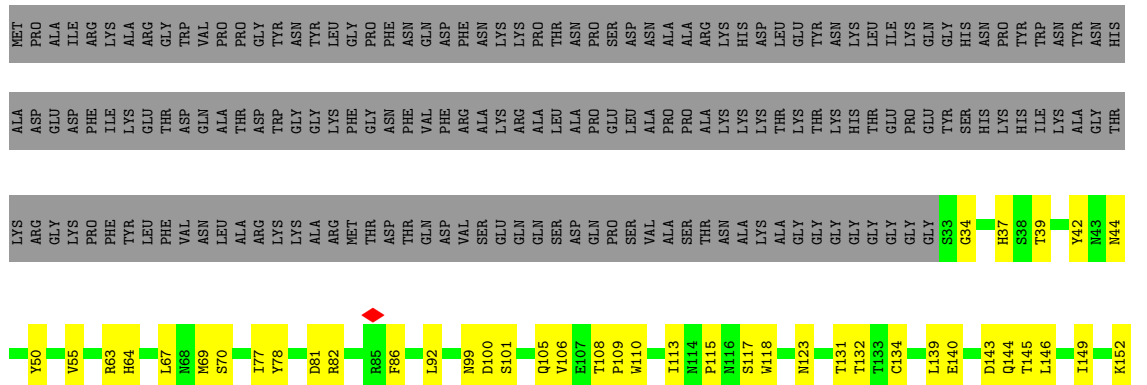


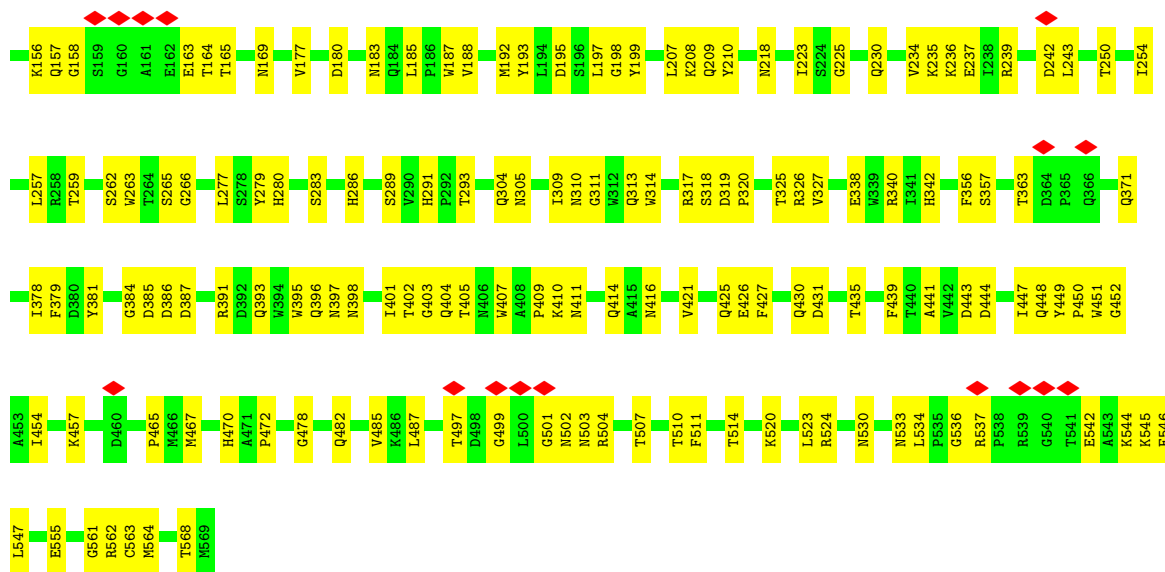


Chain s: 49% 27% 24%



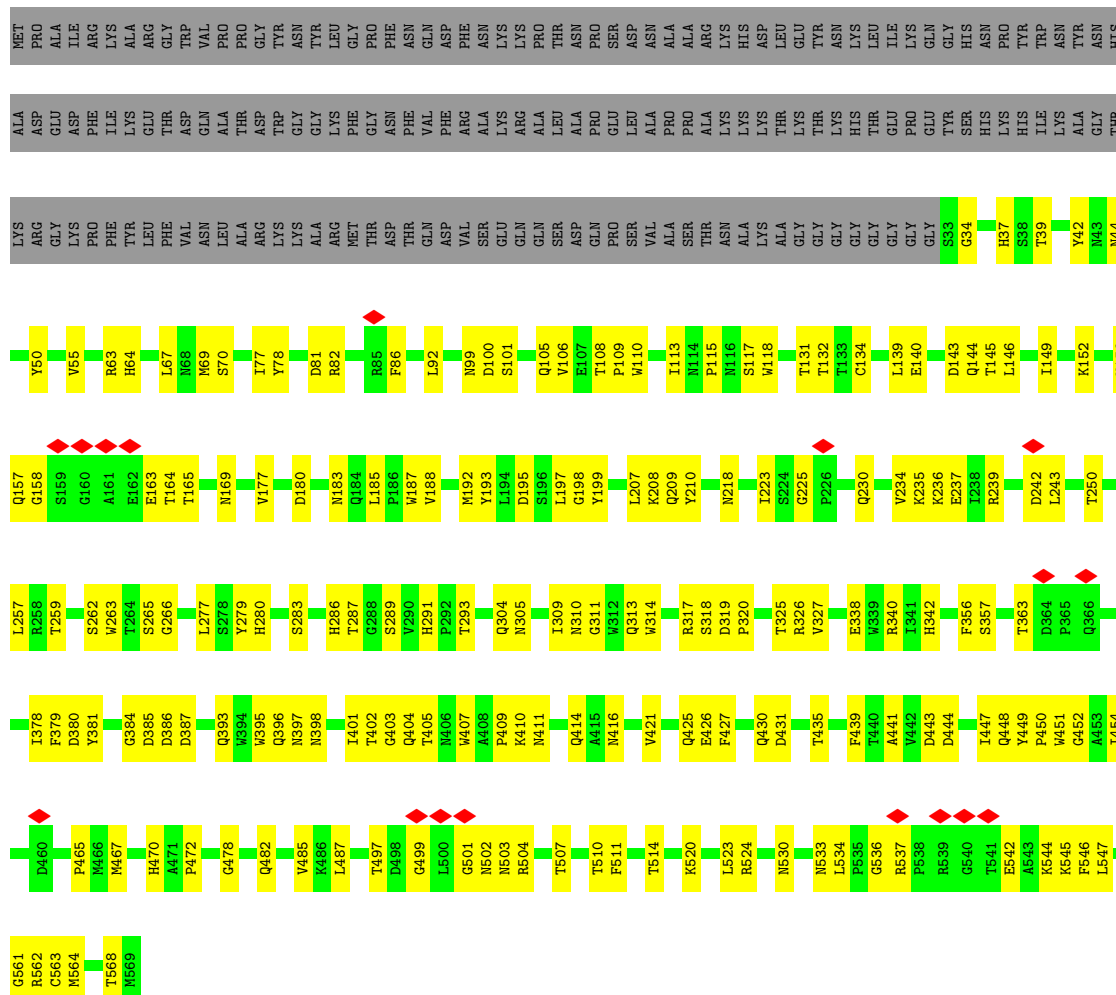
Chain t:  49% 27% 24%



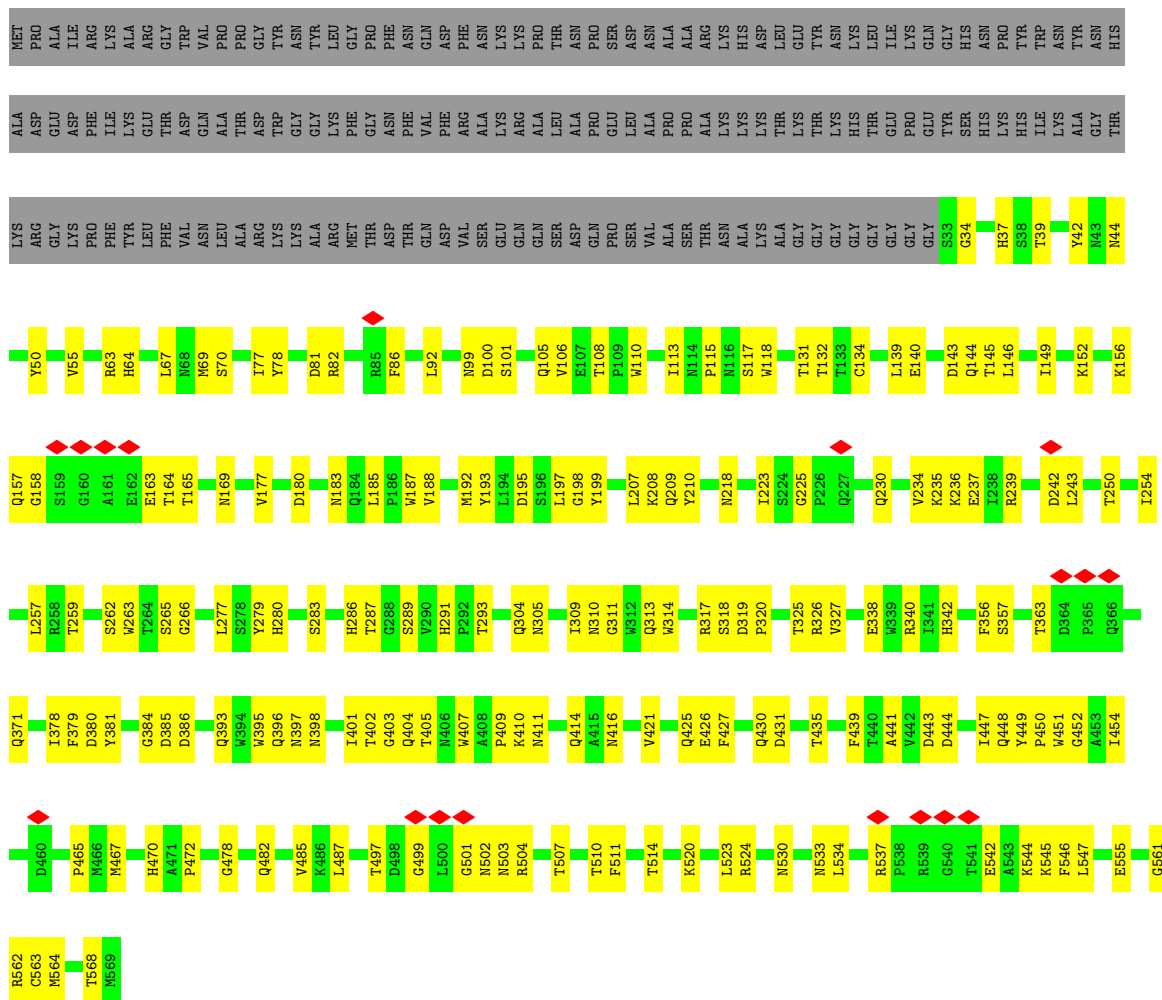


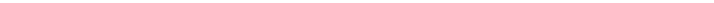
• Molecule 1: VP1

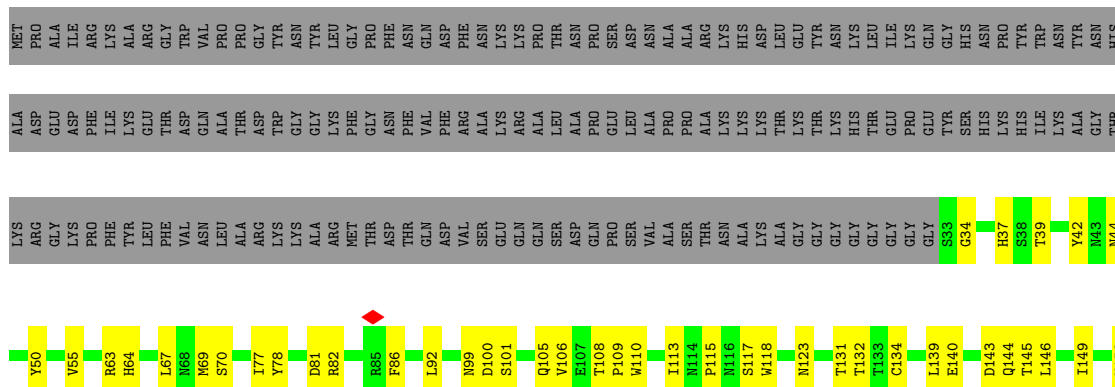
Chain u: 49% 27% 24%

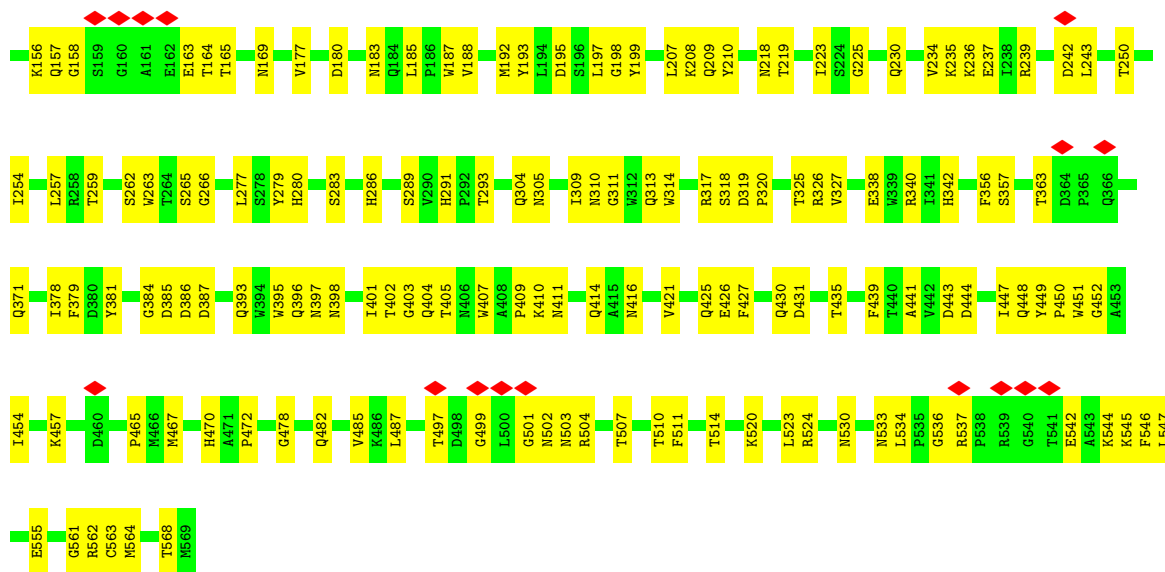


Chain v: 49% 27% 24%



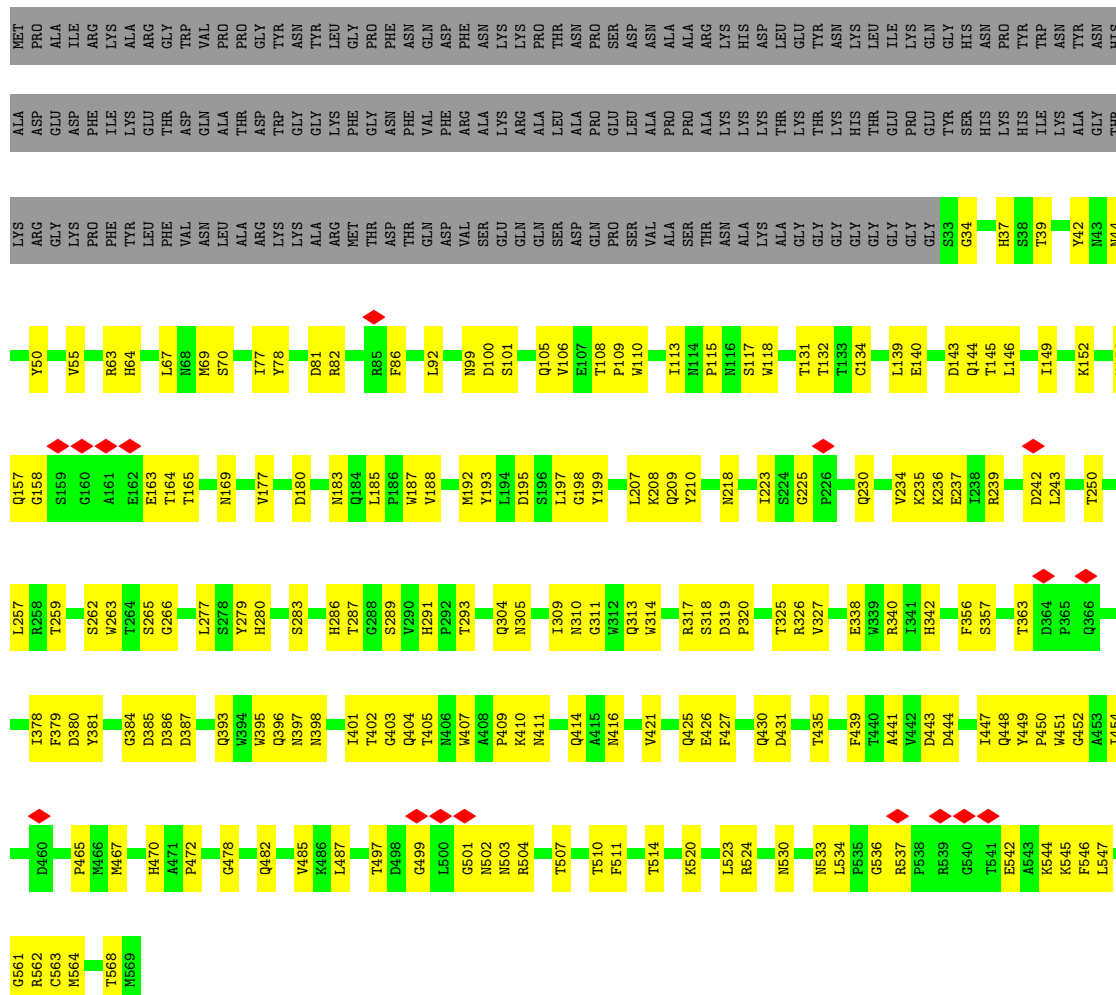
Chain w: 



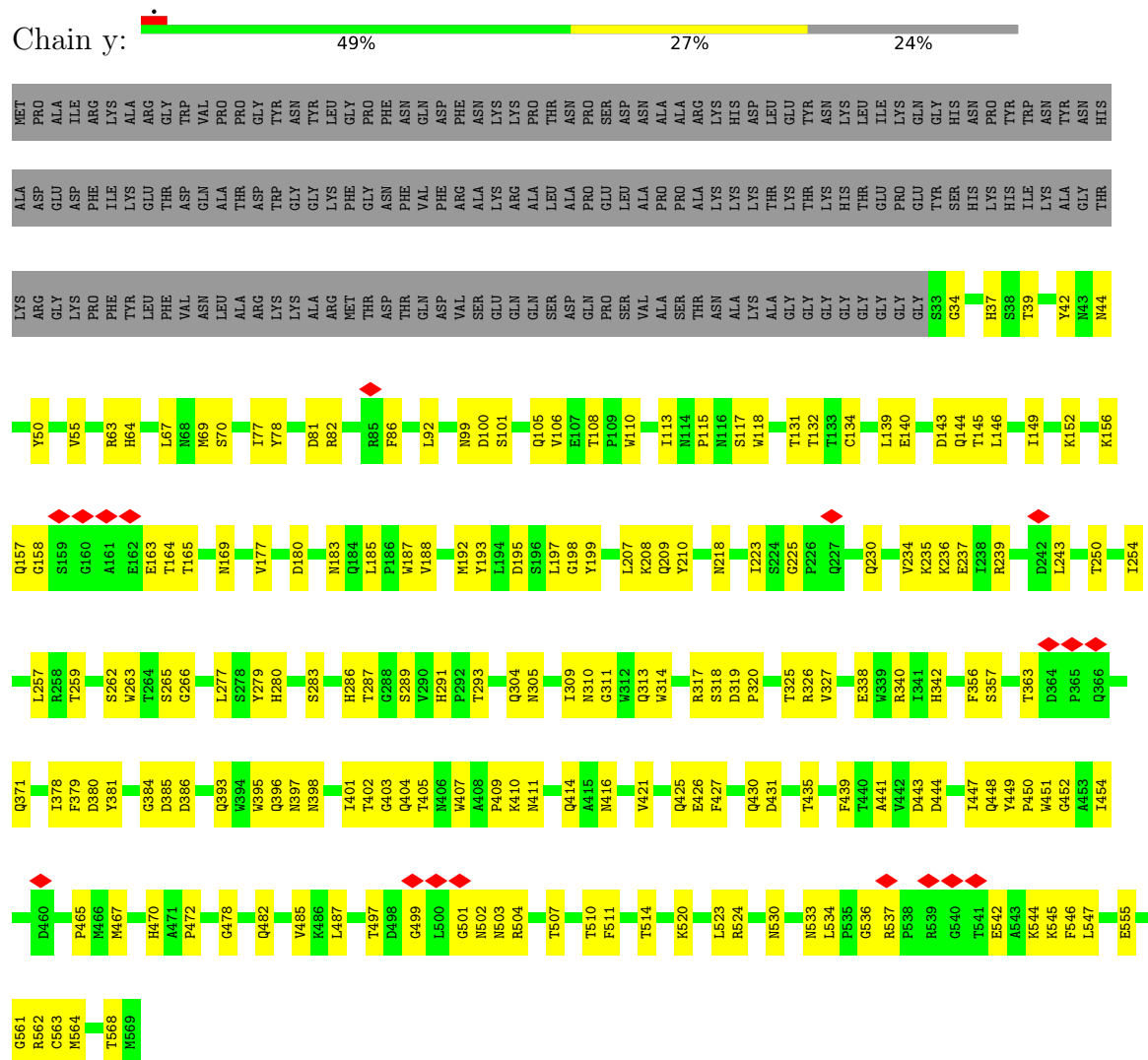


• Molecule 1: VP1

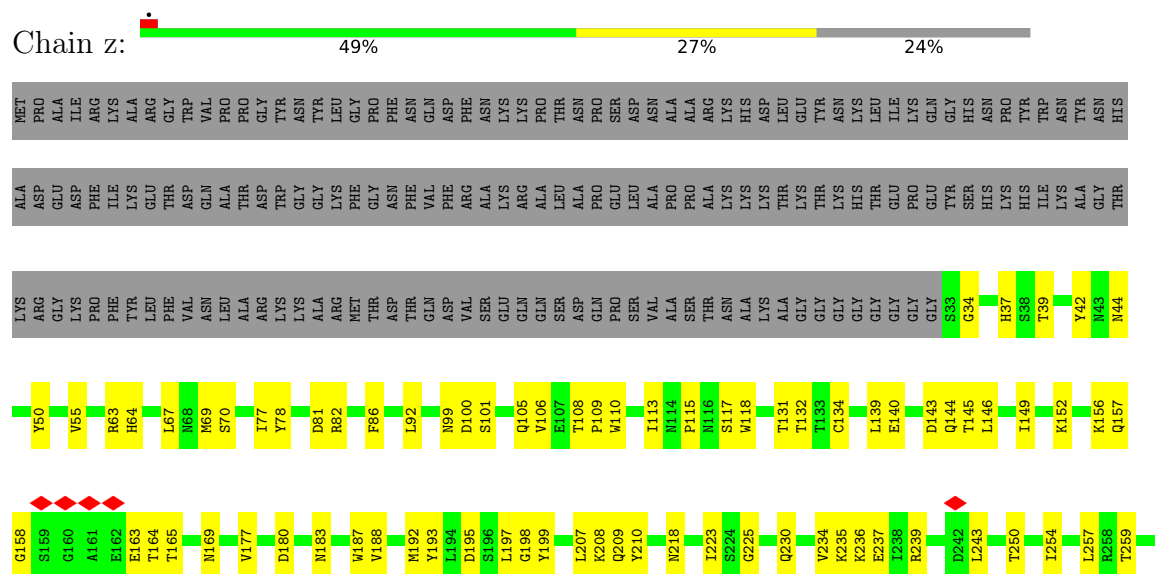
Chain x: 49% 27% 24%



- Molecule 1: VP1



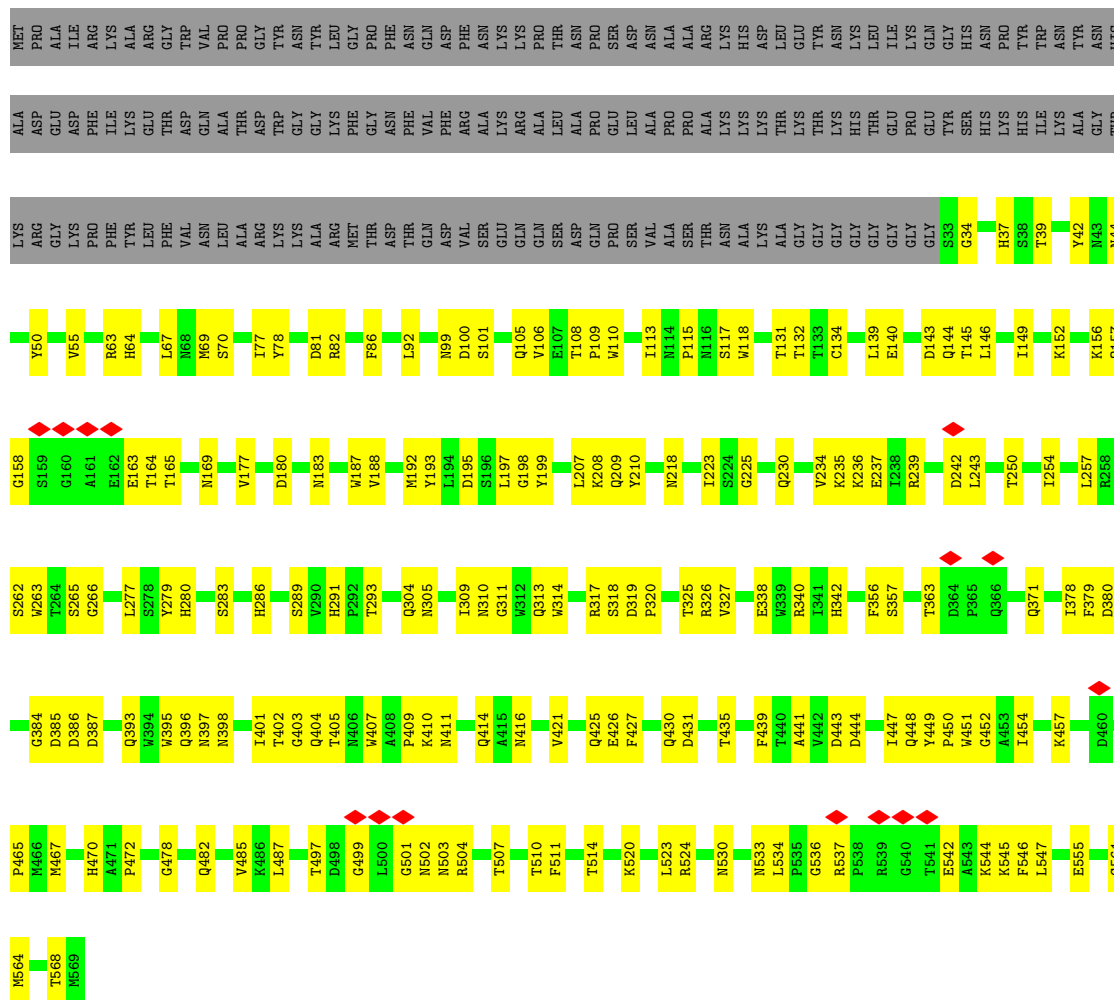
- Molecule 1: VP1





• Molecule 1: VP1

Chain 1: 49% 27% 24%



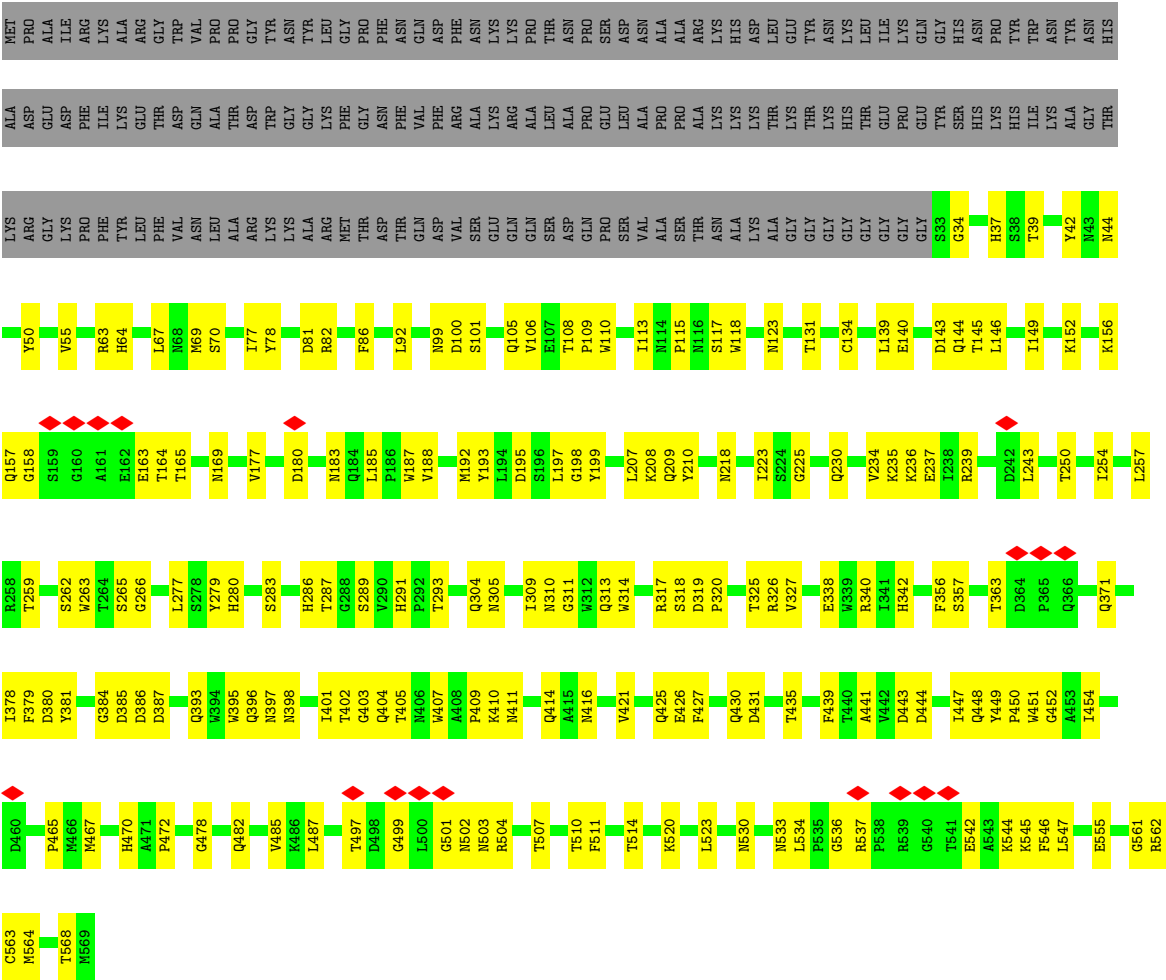
• Molecule 1: VP1

Chain 2: 49% 27% 24%

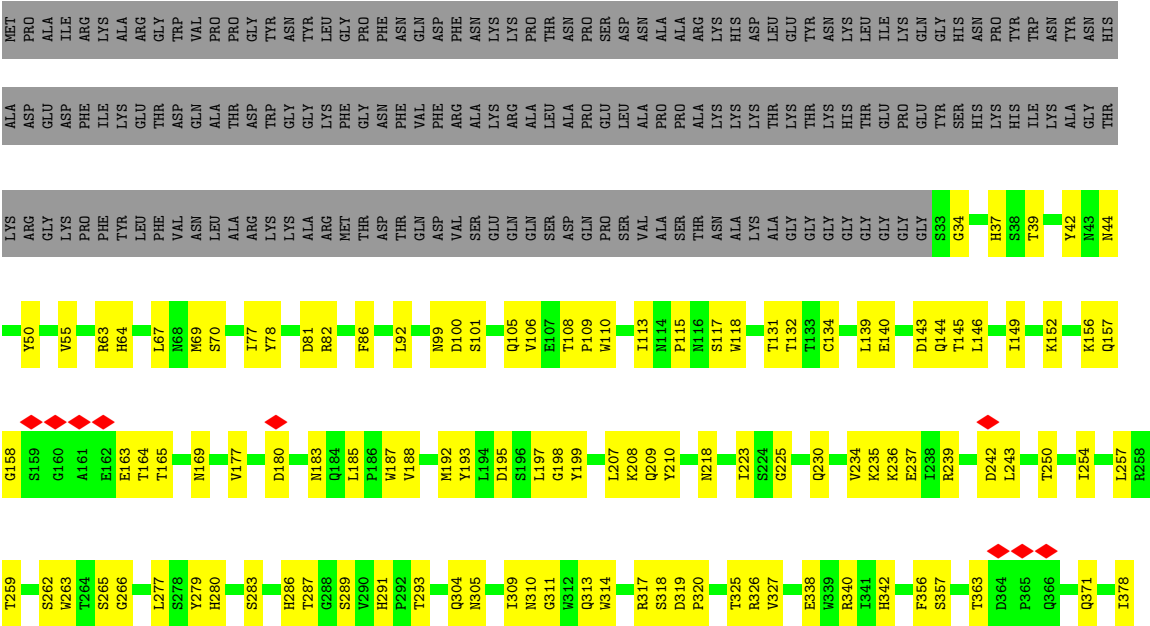
- Molecule 1: VP1

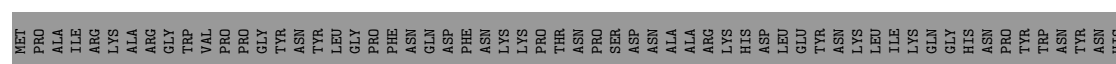
- Molecule 1: VP1





● Molecule 1: VP1







4 Experimental information

Property	Value	Source
EM reconstruction method	SINGLE PARTICLE	Depositor
Imposed symmetry	POINT, I	Depositor
Number of particles used	55060	Depositor
Resolution determination method	FSC 0.143 CUT-OFF	Depositor
CTF correction method	PHASE FLIPPING AND AMPLITUDE CORRECTION	Depositor
Microscope	TFS KRIOS	Depositor
Voltage (kV)	300	Depositor
Electron dose ($e^-/\text{\AA}^2$)	75	Depositor
Minimum defocus (nm)	100	Depositor
Maximum defocus (nm)	2800	Depositor
Magnification	130000	Depositor
Image detector	GATAN K2 SUMMIT (4k x 4k)	Depositor
Maximum map value	25.349	Depositor
Minimum map value	-12.696	Depositor
Average map value	0.000	Depositor
Map value standard deviation	1.000	Depositor
Recommended contour level	2	Depositor
Map size (Å)	493.97, 493.97, 493.97	wwPDB
Map dimensions	470, 470, 470	wwPDB
Map angles (°)	90.0, 90.0, 90.0	wwPDB
Pixel spacing (Å)	1.051, 1.051, 1.051	Depositor

5 Model quality [i](#)

5.1 Standard geometry [i](#)

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

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	$\# Z > 5$	RMSZ	$\# Z > 5$
1	1	0.49	0/4509	0.67	3/6168 (0.0%)
1	2	0.49	0/4509	0.67	3/6168 (0.0%)
1	3	0.49	0/4509	0.67	3/6168 (0.0%)
1	4	0.49	0/4509	0.67	3/6168 (0.0%)
1	5	0.49	0/4509	0.67	3/6168 (0.0%)
1	6	0.49	0/4509	0.67	3/6168 (0.0%)
1	7	0.49	0/4509	0.67	3/6168 (0.0%)
1	8	0.49	0/4509	0.67	3/6168 (0.0%)
1	A	0.49	0/4509	0.67	3/6168 (0.0%)
1	B	0.49	0/4509	0.67	3/6168 (0.0%)
1	C	0.49	0/4509	0.67	3/6168 (0.0%)
1	D	0.49	0/4509	0.67	3/6168 (0.0%)
1	E	0.49	0/4509	0.67	3/6168 (0.0%)
1	F	0.49	0/4509	0.67	3/6168 (0.0%)
1	G	0.49	0/4509	0.67	3/6168 (0.0%)
1	H	0.49	0/4509	0.67	3/6168 (0.0%)
1	I	0.49	0/4509	0.67	3/6168 (0.0%)
1	J	0.49	0/4509	0.67	3/6168 (0.0%)
1	K	0.49	0/4509	0.67	3/6168 (0.0%)
1	L	0.49	0/4509	0.67	3/6168 (0.0%)
1	M	0.49	0/4509	0.67	3/6168 (0.0%)
1	N	0.49	0/4509	0.67	3/6168 (0.0%)
1	O	0.49	0/4509	0.67	3/6168 (0.0%)
1	P	0.49	0/4509	0.67	3/6168 (0.0%)
1	Q	0.49	0/4509	0.67	3/6168 (0.0%)
1	R	0.49	0/4509	0.67	3/6168 (0.0%)
1	S	0.49	0/4509	0.67	3/6168 (0.0%)
1	T	0.49	0/4509	0.67	3/6168 (0.0%)
1	U	0.49	0/4509	0.67	3/6168 (0.0%)
1	V	0.49	0/4509	0.67	3/6168 (0.0%)
1	W	0.49	0/4509	0.67	3/6168 (0.0%)
1	X	0.49	0/4509	0.67	3/6168 (0.0%)
1	Y	0.49	0/4509	0.67	3/6168 (0.0%)
1	Z	0.49	0/4509	0.67	3/6168 (0.0%)

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	# Z >5	RMSZ	# Z >5
1	a	0.49	0/4509	0.67	3/6168 (0.0%)
1	b	0.49	0/4509	0.67	3/6168 (0.0%)
1	c	0.49	0/4509	0.67	3/6168 (0.0%)
1	d	0.49	0/4509	0.67	3/6168 (0.0%)
1	e	0.49	0/4509	0.67	3/6168 (0.0%)
1	f	0.49	0/4509	0.67	3/6168 (0.0%)
1	g	0.49	0/4509	0.67	3/6168 (0.0%)
1	h	0.49	0/4509	0.67	3/6168 (0.0%)
1	i	0.49	0/4509	0.67	3/6168 (0.0%)
1	j	0.49	0/4509	0.67	3/6168 (0.0%)
1	k	0.49	0/4509	0.67	3/6168 (0.0%)
1	l	0.49	0/4509	0.67	3/6168 (0.0%)
1	m	0.49	0/4509	0.67	3/6168 (0.0%)
1	n	0.49	0/4509	0.67	3/6168 (0.0%)
1	o	0.49	0/4509	0.67	3/6168 (0.0%)
1	p	0.49	0/4509	0.67	3/6168 (0.0%)
1	q	0.49	0/4509	0.67	3/6168 (0.0%)
1	r	0.49	0/4509	0.67	3/6168 (0.0%)
1	s	0.49	0/4509	0.67	3/6168 (0.0%)
1	t	0.49	0/4509	0.67	3/6168 (0.0%)
1	u	0.49	0/4509	0.67	3/6168 (0.0%)
1	v	0.49	0/4509	0.67	3/6168 (0.0%)
1	w	0.49	0/4509	0.67	3/6168 (0.0%)
1	x	0.49	0/4509	0.67	3/6168 (0.0%)
1	y	0.49	0/4509	0.67	3/6168 (0.0%)
1	z	0.49	0/4509	0.67	3/6168 (0.0%)
All	All	0.49	0/270540	0.67	180/370080 (0.0%)

There are no bond length outliers.

All (180) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	8	502	ASN	CA-C-N	-8.87	108.74	122.49
1	8	502	ASN	C-N-CA	-8.87	108.74	122.49
1	P	502	ASN	CA-C-N	-8.87	108.75	122.49
1	P	502	ASN	C-N-CA	-8.87	108.75	122.49
1	Z	502	ASN	CA-C-N	-8.86	108.75	122.49
1	Z	502	ASN	C-N-CA	-8.86	108.75	122.49
1	z	502	ASN	CA-C-N	-8.86	108.76	122.49
1	z	502	ASN	C-N-CA	-8.86	108.76	122.49
1	m	502	ASN	CA-C-N	-8.86	108.76	122.49
1	m	502	ASN	C-N-CA	-8.86	108.76	122.49

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	K	502	ASN	CA-C-N	-8.86	108.76	122.49
1	K	502	ASN	C-N-CA	-8.86	108.76	122.49
1	R	502	ASN	CA-C-N	-8.86	108.76	122.49
1	R	502	ASN	C-N-CA	-8.86	108.76	122.49
1	S	502	ASN	CA-C-N	-8.86	108.76	122.49
1	S	502	ASN	C-N-CA	-8.86	108.76	122.49
1	q	502	ASN	CA-C-N	-8.86	108.76	122.49
1	q	502	ASN	C-N-CA	-8.86	108.76	122.49
1	s	502	ASN	CA-C-N	-8.86	108.77	122.49
1	s	502	ASN	C-N-CA	-8.86	108.77	122.49
1	l	502	ASN	CA-C-N	-8.86	108.76	122.49
1	l	502	ASN	C-N-CA	-8.86	108.76	122.49
1	I	502	ASN	CA-C-N	-8.85	108.77	122.49
1	I	502	ASN	C-N-CA	-8.85	108.77	122.49
1	a	502	ASN	CA-C-N	-8.85	108.77	122.49
1	a	502	ASN	C-N-CA	-8.85	108.77	122.49
1	b	502	ASN	CA-C-N	-8.85	108.77	122.49
1	b	502	ASN	C-N-CA	-8.85	108.77	122.49
1	c	502	ASN	CA-C-N	-8.85	108.77	122.49
1	c	502	ASN	C-N-CA	-8.85	108.77	122.49
1	n	502	ASN	CA-C-N	-8.85	108.77	122.49
1	n	502	ASN	C-N-CA	-8.85	108.77	122.49
1	x	502	ASN	CA-C-N	-8.85	108.77	122.49
1	x	502	ASN	C-N-CA	-8.85	108.77	122.49
1	3	502	ASN	CA-C-N	-8.85	108.77	122.49
1	3	502	ASN	C-N-CA	-8.85	108.77	122.49
1	M	502	ASN	CA-C-N	-8.85	108.77	122.49
1	M	502	ASN	C-N-CA	-8.85	108.77	122.49
1	O	502	ASN	CA-C-N	-8.85	108.78	122.49
1	O	502	ASN	C-N-CA	-8.85	108.78	122.49
1	X	502	ASN	CA-C-N	-8.85	108.77	122.49
1	X	502	ASN	C-N-CA	-8.85	108.77	122.49
1	h	502	ASN	CA-C-N	-8.85	108.77	122.49
1	h	502	ASN	C-N-CA	-8.85	108.77	122.49
1	l	502	ASN	CA-C-N	-8.85	108.78	122.49
1	l	502	ASN	C-N-CA	-8.85	108.78	122.49
1	o	502	ASN	CA-C-N	-8.85	108.77	122.49
1	o	502	ASN	C-N-CA	-8.85	108.77	122.49
1	J	502	ASN	CA-C-N	-8.85	108.78	122.49
1	J	502	ASN	C-N-CA	-8.85	108.78	122.49
1	L	502	ASN	CA-C-N	-8.85	108.78	122.49
1	L	502	ASN	C-N-CA	-8.85	108.78	122.49

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	U	502	ASN	CA-C-N	-8.85	108.78	122.49
1	U	502	ASN	C-N-CA	-8.85	108.78	122.49
1	B	502	ASN	CA-C-N	-8.84	108.78	122.49
1	B	502	ASN	C-N-CA	-8.84	108.78	122.49
1	C	502	ASN	CA-C-N	-8.84	108.79	122.49
1	C	502	ASN	C-N-CA	-8.84	108.79	122.49
1	V	502	ASN	CA-C-N	-8.84	108.79	122.49
1	V	502	ASN	C-N-CA	-8.84	108.79	122.49
1	p	502	ASN	CA-C-N	-8.84	108.79	122.49
1	p	502	ASN	C-N-CA	-8.84	108.79	122.49
1	4	502	ASN	CA-C-N	-8.84	108.79	122.49
1	4	502	ASN	C-N-CA	-8.84	108.79	122.49
1	A	502	ASN	CA-C-N	-8.84	108.80	122.49
1	A	502	ASN	C-N-CA	-8.84	108.80	122.49
1	F	502	ASN	CA-C-N	-8.84	108.80	122.49
1	F	502	ASN	C-N-CA	-8.84	108.80	122.49
1	e	502	ASN	CA-C-N	-8.84	108.80	122.49
1	e	502	ASN	C-N-CA	-8.84	108.80	122.49
1	f	502	ASN	CA-C-N	-8.84	108.80	122.49
1	f	502	ASN	C-N-CA	-8.84	108.80	122.49
1	v	502	ASN	CA-C-N	-8.84	108.80	122.49
1	v	502	ASN	C-N-CA	-8.84	108.80	122.49
1	y	502	ASN	CA-C-N	-8.84	108.80	122.49
1	y	502	ASN	C-N-CA	-8.84	108.80	122.49
1	d	502	ASN	CA-C-N	-8.83	108.80	122.49
1	d	502	ASN	C-N-CA	-8.83	108.80	122.49
1	T	502	ASN	CA-C-N	-8.83	108.80	122.49
1	T	502	ASN	C-N-CA	-8.83	108.80	122.49
1	g	502	ASN	CA-C-N	-8.83	108.80	122.49
1	g	502	ASN	C-N-CA	-8.83	108.80	122.49
1	j	502	ASN	CA-C-N	-8.83	108.80	122.49
1	j	502	ASN	C-N-CA	-8.83	108.80	122.49
1	k	502	ASN	CA-C-N	-8.83	108.80	122.49
1	k	502	ASN	C-N-CA	-8.83	108.80	122.49
1	6	502	ASN	CA-C-N	-8.83	108.80	122.49
1	6	502	ASN	C-N-CA	-8.83	108.80	122.49
1	7	502	ASN	CA-C-N	-8.83	108.80	122.49
1	7	502	ASN	C-N-CA	-8.83	108.80	122.49
1	D	502	ASN	CA-C-N	-8.83	108.81	122.49
1	D	502	ASN	C-N-CA	-8.83	108.81	122.49
1	H	502	ASN	CA-C-N	-8.83	108.81	122.49
1	H	502	ASN	C-N-CA	-8.83	108.81	122.49

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	502	ASN	CA-C-N	-8.83	108.81	122.49
1	N	502	ASN	C-N-CA	-8.83	108.81	122.49
1	W	502	ASN	CA-C-N	-8.83	108.81	122.49
1	W	502	ASN	C-N-CA	-8.83	108.81	122.49
1	Y	502	ASN	CA-C-N	-8.83	108.81	122.49
1	Y	502	ASN	C-N-CA	-8.83	108.81	122.49
1	u	502	ASN	CA-C-N	-8.83	108.81	122.49
1	u	502	ASN	C-N-CA	-8.83	108.81	122.49
1	5	502	ASN	CA-C-N	-8.83	108.81	122.49
1	5	502	ASN	C-N-CA	-8.83	108.81	122.49
1	Q	502	ASN	CA-C-N	-8.83	108.81	122.49
1	Q	502	ASN	C-N-CA	-8.83	108.81	122.49
1	E	502	ASN	CA-C-N	-8.82	108.81	122.49
1	E	502	ASN	C-N-CA	-8.82	108.81	122.49
1	t	502	ASN	CA-C-N	-8.82	108.81	122.49
1	t	502	ASN	C-N-CA	-8.82	108.81	122.49
1	r	502	ASN	CA-C-N	-8.81	108.83	122.49
1	r	502	ASN	C-N-CA	-8.81	108.83	122.49
1	i	502	ASN	CA-C-N	-8.81	108.83	122.49
1	i	502	ASN	C-N-CA	-8.81	108.83	122.49
1	2	502	ASN	CA-C-N	-8.81	108.83	122.49
1	2	502	ASN	C-N-CA	-8.81	108.83	122.49
1	G	502	ASN	CA-C-N	-8.81	108.84	122.49
1	G	502	ASN	C-N-CA	-8.81	108.84	122.49
1	w	502	ASN	CA-C-N	-8.81	108.84	122.49
1	w	502	ASN	C-N-CA	-8.81	108.84	122.49
1	A	502	ASN	N-CA-C	-8.22	103.41	113.19
1	y	502	ASN	N-CA-C	-8.20	103.43	113.19
1	t	502	ASN	N-CA-C	-8.20	103.44	113.19
1	S	502	ASN	N-CA-C	-8.19	103.44	113.19
1	X	502	ASN	N-CA-C	-8.19	103.44	113.19
1	r	502	ASN	N-CA-C	-8.19	103.44	113.19
1	7	502	ASN	N-CA-C	-8.19	103.44	113.19
1	C	502	ASN	N-CA-C	-8.19	103.45	113.19
1	R	502	ASN	N-CA-C	-8.19	103.45	113.19
1	T	502	ASN	N-CA-C	-8.19	103.45	113.19
1	V	502	ASN	N-CA-C	-8.19	103.45	113.19
1	Z	502	ASN	N-CA-C	-8.18	103.45	113.19
1	j	502	ASN	N-CA-C	-8.18	103.46	113.19
1	E	502	ASN	N-CA-C	-8.18	103.46	113.19
1	3	502	ASN	N-CA-C	-8.18	103.46	113.19
1	B	502	ASN	N-CA-C	-8.17	103.46	113.19

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	G	502	ASN	N-CA-C	-8.17	103.46	113.19
1	h	502	ASN	N-CA-C	-8.17	103.46	113.19
1	w	502	ASN	N-CA-C	-8.17	103.46	113.19
1	6	502	ASN	N-CA-C	-8.17	103.47	113.19
1	e	502	ASN	N-CA-C	-8.17	103.47	113.19
1	f	502	ASN	N-CA-C	-8.17	103.47	113.19
1	O	502	ASN	N-CA-C	-8.17	103.47	113.19
1	l	502	ASN	N-CA-C	-8.17	103.47	113.19
1	H	502	ASN	N-CA-C	-8.17	103.47	113.19
1	N	502	ASN	N-CA-C	-8.17	103.47	113.19
1	P	502	ASN	N-CA-C	-8.17	103.47	113.19
1	Y	502	ASN	N-CA-C	-8.17	103.47	113.19
1	J	502	ASN	N-CA-C	-8.16	103.48	113.19
1	L	502	ASN	N-CA-C	-8.16	103.48	113.19
1	2	502	ASN	N-CA-C	-8.16	103.48	113.19
1	F	502	ASN	N-CA-C	-8.16	103.48	113.19
1	v	502	ASN	N-CA-C	-8.16	103.48	113.19
1	Q	502	ASN	N-CA-C	-8.16	103.48	113.19
1	i	502	ASN	N-CA-C	-8.16	103.48	113.19
1	m	502	ASN	N-CA-C	-8.16	103.48	113.19
1	o	502	ASN	N-CA-C	-8.16	103.48	113.19
1	p	502	ASN	N-CA-C	-8.16	103.48	113.19
1	x	502	ASN	N-CA-C	-8.16	103.48	113.19
1	4	502	ASN	N-CA-C	-8.16	103.48	113.19
1	z	502	ASN	N-CA-C	-8.16	103.48	113.19
1	5	502	ASN	N-CA-C	-8.15	103.49	113.19
1	s	502	ASN	N-CA-C	-8.15	103.49	113.19
1	U	502	ASN	N-CA-C	-8.15	103.50	113.19
1	g	502	ASN	N-CA-C	-8.15	103.50	113.19
1	u	502	ASN	N-CA-C	-8.15	103.50	113.19
1	8	502	ASN	N-CA-C	-8.15	103.50	113.19
1	D	502	ASN	N-CA-C	-8.14	103.50	113.19
1	I	502	ASN	N-CA-C	-8.14	103.50	113.19
1	K	502	ASN	N-CA-C	-8.14	103.50	113.19
1	W	502	ASN	N-CA-C	-8.14	103.50	113.19
1	a	502	ASN	N-CA-C	-8.14	103.50	113.19
1	b	502	ASN	N-CA-C	-8.14	103.50	113.19
1	c	502	ASN	N-CA-C	-8.14	103.50	113.19
1	q	502	ASN	N-CA-C	-8.14	103.50	113.19
1	l	502	ASN	N-CA-C	-8.14	103.50	113.19
1	d	502	ASN	N-CA-C	-8.13	103.51	113.19
1	n	502	ASN	N-CA-C	-8.13	103.51	113.19

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	M	502	ASN	N-CA-C	-8.12	103.53	113.19
1	k	502	ASN	N-CA-C	-8.12	103.53	113.19

There are no chirality outliers.

There are no planarity outliers.

5.2 Too-close contacts ⓘ

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

Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	1	4359	0	4087	169	0
1	2	4359	0	4087	164	0
1	3	4359	0	4087	171	0
1	4	4359	0	4087	171	0
1	5	4359	0	4087	169	0
1	6	4359	0	4087	172	0
1	7	4359	0	4087	170	0
1	8	4359	0	4087	170	0
1	A	4359	0	4087	168	0
1	B	4359	0	4087	173	0
1	C	4359	0	4087	167	0
1	D	4359	0	4087	171	0
1	E	4359	0	4087	168	0
1	F	4359	0	4087	169	0
1	G	4359	0	4087	168	0
1	H	4359	0	4087	169	0
1	I	4359	0	4087	173	0
1	J	4359	0	4087	170	0
1	K	4359	0	4087	170	0
1	L	4359	0	4087	170	0
1	M	4359	0	4087	170	0
1	N	4359	0	4087	173	0
1	O	4359	0	4087	170	0
1	P	4359	0	4087	168	0
1	Q	4359	0	4087	171	0
1	R	4359	0	4087	171	0
1	S	4359	0	4087	170	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	T	4359	0	4087	168	0
1	U	4359	0	4087	171	0
1	V	4359	0	4087	170	0
1	W	4359	0	4087	171	0
1	X	4359	0	4087	171	0
1	Y	4359	0	4087	170	0
1	Z	4359	0	4087	169	0
1	a	4359	0	4087	171	0
1	b	4359	0	4087	172	0
1	c	4359	0	4087	171	0
1	d	4359	0	4087	170	0
1	e	4359	0	4087	171	0
1	f	4359	0	4087	172	0
1	g	4359	0	4087	166	0
1	h	4359	0	4087	166	0
1	i	4359	0	4087	170	0
1	j	4359	0	4087	170	0
1	k	4359	0	4087	172	0
1	l	4359	0	4087	169	0
1	m	4359	0	4087	171	0
1	n	4359	0	4087	171	0
1	o	4359	0	4087	166	0
1	p	4359	0	4087	165	0
1	q	4359	0	4087	171	0
1	r	4359	0	4087	168	0
1	s	4359	0	4087	165	0
1	t	4359	0	4087	173	0
1	u	4359	0	4087	171	0
1	v	4359	0	4087	167	0
1	w	4359	0	4087	171	0
1	x	4359	0	4087	171	0
1	y	4359	0	4087	167	0
1	z	4359	0	4087	166	0
All	All	261540	0	245220	8296	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 16.

All (8296) 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:499:GLY:HA3	1:J:503:ASN:ND2	1.73	1.04
1:M:499:GLY:HA3	1:M:503:ASN:ND2	1.73	1.04
1:S:499:GLY:HA3	1:S:503:ASN:ND2	1.73	1.04
1:T:499:GLY:HA3	1:T:503:ASN:ND2	1.73	1.04
1:X:499:GLY:HA3	1:X:503:ASN:ND2	1.73	1.04
1:D:499:GLY:HA3	1:D:503:ASN:ND2	1.73	1.03
1:H:499:GLY:HA3	1:H:503:ASN:ND2	1.73	1.03
1:n:499:GLY:HA3	1:n:503:ASN:ND2	1.73	1.03
1:B:499:GLY:HA3	1:B:503:ASN:ND2	1.73	1.03
1:E:499:GLY:HA3	1:E:503:ASN:ND2	1.73	1.03
1:G:499:GLY:HA3	1:G:503:ASN:ND2	1.73	1.03
1:K:499:GLY:HA3	1:K:503:ASN:ND2	1.73	1.03
1:P:499:GLY:HA3	1:P:503:ASN:ND2	1.73	1.03
1:R:499:GLY:HA3	1:R:503:ASN:ND2	1.73	1.03
1:W:499:GLY:HA3	1:W:503:ASN:ND2	1.73	1.03
1:g:499:GLY:HA3	1:g:503:ASN:ND2	1.73	1.03
1:p:499:GLY:HA3	1:p:503:ASN:ND2	1.73	1.03
1:q:499:GLY:HA3	1:q:503:ASN:ND2	1.73	1.03
1:l:499:GLY:HA3	1:l:503:ASN:ND2	1.73	1.03
1:3:499:GLY:HA3	1:3:503:ASN:ND2	1.73	1.03
1:I:499:GLY:HA3	1:I:503:ASN:ND2	1.73	1.03
1:N:499:GLY:HA3	1:N:503:ASN:ND2	1.73	1.03
1:Q:499:GLY:HA3	1:Q:503:ASN:ND2	1.73	1.03
1:f:499:GLY:HA3	1:f:503:ASN:ND2	1.73	1.03
1:t:499:GLY:HA3	1:t:503:ASN:ND2	1.73	1.03
1:w:499:GLY:HA3	1:w:503:ASN:ND2	1.73	1.03
1:4:499:GLY:HA3	1:4:503:ASN:ND2	1.73	1.03
1:Y:499:GLY:HA3	1:Y:503:ASN:ND2	1.73	1.03
1:c:499:GLY:HA3	1:c:503:ASN:ND2	1.73	1.03
1:j:499:GLY:HA3	1:j:503:ASN:ND2	1.73	1.03
1:m:499:GLY:HA3	1:m:503:ASN:ND2	1.73	1.03
1:8:499:GLY:HA3	1:8:503:ASN:ND2	1.73	1.03
1:O:499:GLY:HA3	1:O:503:ASN:ND2	1.73	1.03
1:U:499:GLY:HA3	1:U:503:ASN:ND2	1.73	1.03
1:d:499:GLY:HA3	1:d:503:ASN:ND2	1.73	1.03
1:l:499:GLY:HA3	1:l:503:ASN:ND2	1.73	1.03
1:L:499:GLY:HA3	1:L:503:ASN:ND2	1.73	1.02
1:Z:499:GLY:HA3	1:Z:503:ASN:ND2	1.73	1.02
1:a:499:GLY:HA3	1:a:503:ASN:ND2	1.73	1.02
1:s:499:GLY:HA3	1:s:503:ASN:ND2	1.73	1.02
1:5:499:GLY:HA3	1:5:503:ASN:ND2	1.73	1.02
1:x:499:GLY:HA3	1:x:503:ASN:ND2	1.73	1.02

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:z:499:GLY:HA3	1:z:503:ASN:ND2	1.73	1.02
1:A:499:GLY:HA3	1:A:503:ASN:ND2	1.73	1.02
1:C:499:GLY:HA3	1:C:503:ASN:ND2	1.73	1.02
1:F:499:GLY:HA3	1:F:503:ASN:ND2	1.73	1.02
1:r:499:GLY:HA3	1:r:503:ASN:ND2	1.73	1.02
1:u:499:GLY:HA3	1:u:503:ASN:ND2	1.73	1.02
1:2:499:GLY:HA3	1:2:503:ASN:ND2	1.73	1.02
1:o:499:GLY:HA3	1:o:503:ASN:ND2	1.73	1.02
1:V:499:GLY:HA3	1:V:503:ASN:ND2	1.73	1.02
1:b:499:GLY:HA3	1:b:503:ASN:ND2	1.73	1.01
1:e:499:GLY:HA3	1:e:503:ASN:ND2	1.73	1.01
1:h:499:GLY:HA3	1:h:503:ASN:ND2	1.73	1.01
1:y:499:GLY:HA3	1:y:503:ASN:ND2	1.73	1.01
1:v:499:GLY:HA3	1:v:503:ASN:ND2	1.73	1.01
1:i:499:GLY:HA3	1:i:503:ASN:ND2	1.73	1.01
1:6:499:GLY:HA3	1:6:503:ASN:ND2	1.73	1.01
1:7:499:GLY:HA3	1:7:503:ASN:ND2	1.73	1.01
1:f:499:GLY:HA3	1:f:503:ASN:HD21	1.26	1.01
1:k:499:GLY:HA3	1:k:503:ASN:ND2	1.73	1.01
1:G:499:GLY:HA3	1:G:503:ASN:HD21	1.26	1.01
1:c:499:GLY:HA3	1:c:503:ASN:HD21	1.26	1.01
1:l:499:GLY:HA3	1:l:503:ASN:HD21	1.26	1.01
1:v:499:GLY:HA3	1:v:503:ASN:HD21	1.26	1.01
1:y:499:GLY:HA3	1:y:503:ASN:HD21	1.26	1.01
1:8:499:GLY:HA3	1:8:503:ASN:HD21	1.26	1.01
1:E:499:GLY:HA3	1:E:503:ASN:HD21	1.26	1.00
1:j:499:GLY:HA3	1:j:503:ASN:HD21	1.26	1.00
1:4:499:GLY:HA3	1:4:503:ASN:HD21	1.26	1.00
1:q:499:GLY:HA3	1:q:503:ASN:HD21	1.26	1.00
1:1:499:GLY:HA3	1:1:503:ASN:HD21	1.26	1.00
1:A:499:GLY:HA3	1:A:503:ASN:HD21	1.26	1.00
1:F:499:GLY:HA3	1:F:503:ASN:HD21	1.26	1.00
1:m:499:GLY:HA3	1:m:503:ASN:HD21	1.26	1.00
1:5:499:GLY:HA3	1:5:503:ASN:HD21	1.26	1.00
1:h:499:GLY:HA3	1:h:503:ASN:HD21	1.26	1.00
1:o:499:GLY:HA3	1:o:503:ASN:HD21	1.26	1.00
1:s:499:GLY:HA3	1:s:503:ASN:HD21	1.26	1.00
1:p:499:GLY:HA3	1:p:503:ASN:HD21	1.26	0.99
1:b:499:GLY:HA3	1:b:503:ASN:HD21	1.26	0.99
1:z:499:GLY:HA3	1:z:503:ASN:HD21	1.26	0.99
1:g:499:GLY:HA3	1:g:503:ASN:HD21	1.26	0.99

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:e:499:GLY:HA3	1:e:503:ASN:HD21	1.26	0.99
1:3:499:GLY:HA3	1:3:503:ASN:HD21	1.26	0.99
1:P:499:GLY:HA3	1:P:503:ASN:HD21	1.26	0.99
1:n:499:GLY:HA3	1:n:503:ASN:HD21	1.26	0.98
1:W:499:GLY:HA3	1:W:503:ASN:HD21	1.26	0.98
1:S:499:GLY:HA3	1:S:503:ASN:HD21	1.26	0.98
1:D:499:GLY:HA3	1:D:503:ASN:HD21	1.26	0.98
1:H:499:GLY:HA3	1:H:503:ASN:HD21	1.26	0.98
1:x:499:GLY:HA3	1:x:503:ASN:HD21	1.26	0.98
1:J:499:GLY:HA3	1:J:503:ASN:HD21	1.26	0.98
1:K:499:GLY:HA3	1:K:503:ASN:HD21	1.26	0.97
1:u:499:GLY:HA3	1:u:503:ASN:HD21	1.26	0.97
1:T:499:GLY:HA3	1:T:503:ASN:HD21	1.26	0.97
1:U:499:GLY:HA3	1:U:503:ASN:HD21	1.26	0.97
1:X:499:GLY:HA3	1:X:503:ASN:HD21	1.26	0.97
1:M:499:GLY:HA3	1:M:503:ASN:HD21	1.26	0.96
1:L:499:GLY:HA3	1:L:503:ASN:HD21	1.26	0.96
1:B:499:GLY:HA3	1:B:503:ASN:HD21	1.26	0.96
1:R:499:GLY:HA3	1:R:503:ASN:HD21	1.26	0.96
1:w:499:GLY:HA3	1:w:503:ASN:HD21	1.26	0.96
1:C:499:GLY:HA3	1:C:503:ASN:HD21	1.26	0.96
1:Y:499:GLY:HA3	1:Y:503:ASN:HD21	1.26	0.96
1:N:499:GLY:HA3	1:N:503:ASN:HD21	1.26	0.96
1:t:499:GLY:HA3	1:t:503:ASN:HD21	1.26	0.96
1:7:499:GLY:HA3	1:7:503:ASN:HD21	1.26	0.96
1:V:499:GLY:HA3	1:V:503:ASN:HD21	1.26	0.95
1:i:499:GLY:HA3	1:i:503:ASN:HD21	1.26	0.95
1:Z:499:GLY:HA3	1:Z:503:ASN:HD21	1.26	0.95
1:I:499:GLY:HA3	1:I:503:ASN:HD21	1.26	0.95
1:O:499:GLY:HA3	1:O:503:ASN:HD21	1.26	0.95
1:Q:499:GLY:HA3	1:Q:503:ASN:HD21	1.26	0.95
1:6:499:GLY:HA3	1:6:503:ASN:HD21	1.26	0.94
1:k:499:GLY:HA3	1:k:503:ASN:HD21	1.26	0.94
1:2:499:GLY:HA3	1:2:503:ASN:HD21	1.26	0.92
1:r:499:GLY:HA3	1:r:503:ASN:HD21	1.26	0.92
1:d:499:GLY:HA3	1:d:503:ASN:HD21	1.26	0.92
1:a:499:GLY:HA3	1:a:503:ASN:HD21	1.26	0.91
1:r:421:VAL:HG11	1:s:92:LEU:HD23	1.60	0.84
1:K:421:VAL:HG11	1:a:92:LEU:HD23	1.60	0.84
1:i:421:VAL:HG11	1:j:92:LEU:HD23	1.59	0.84
1:T:421:VAL:HG11	1:d:92:LEU:HD23	1.60	0.84

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:z:92:LEU:HD23	1:2:421:VAL:HG11	1.60	0.84
1:5:92:LEU:HD23	1:7:421:VAL:HG11	1.59	0.84
1:D:92:LEU:HD23	1:P:421:VAL:HG11	1.59	0.84
1:H:421:VAL:HG11	1:W:92:LEU:HD23	1.59	0.84
1:f:421:VAL:HG11	1:h:92:LEU:HD23	1.60	0.84
1:M:92:LEU:HD23	1:b:421:VAL:HG11	1.60	0.84
1:X:92:LEU:HD23	1:e:421:VAL:HG11	1.60	0.84
1:c:421:VAL:HG11	1:o:92:LEU:HD23	1.60	0.84
1:O:92:LEU:HD23	1:n:421:VAL:HG11	1.60	0.83
1:Z:92:LEU:HD23	1:3:421:VAL:HG11	1.60	0.83
1:t:421:VAL:HG11	1:u:92:LEU:HD23	1.60	0.83
1:o:421:VAL:HG11	1:p:92:LEU:HD23	1.60	0.83
1:t:92:LEU:HD23	1:v:421:VAL:HG11	1.60	0.83
1:w:421:VAL:HG11	1:x:92:LEU:HD23	1.60	0.83
1:A:92:LEU:HD23	1:I:421:VAL:HG11	1.59	0.83
1:g:92:LEU:HD23	1:h:421:VAL:HG11	1.60	0.83
1:w:92:LEU:HD23	1:y:421:VAL:HG11	1.60	0.83
1:5:421:VAL:HG11	1:6:92:LEU:HD23	1.59	0.83
1:u:421:VAL:HG11	1:v:92:LEU:HD23	1.59	0.83
1:x:421:VAL:HG11	1:y:92:LEU:HD23	1.59	0.83
1:J:421:VAL:HG11	1:L:92:LEU:HD23	1.60	0.83
1:N:421:VAL:HG11	1:P:92:LEU:HD23	1.59	0.83
1:S:421:VAL:HG11	1:U:92:LEU:HD23	1.60	0.83
1:j:421:VAL:HG11	1:k:92:LEU:HD23	1.60	0.83
1:3:92:LEU:HD23	1:4:421:VAL:HG11	1.60	0.83
1:F:92:LEU:HD23	1:Q:421:VAL:HG11	1.59	0.83
1:m:421:VAL:HG11	1:n:92:LEU:HD23	1.60	0.83
1:C:421:VAL:HG11	1:b:92:LEU:HD23	1.60	0.83
1:H:92:LEU:HD23	1:Y:421:VAL:HG11	1.59	0.83
1:K:92:LEU:HD23	1:8:421:VAL:HG11	1.60	0.83
1:O:421:VAL:HG11	1:m:92:LEU:HD23	1.60	0.83
1:T:92:LEU:HD23	1:l:421:VAL:HG11	1.60	0.83
1:c:92:LEU:HD23	1:p:421:VAL:HG11	1.60	0.83
1:V:421:VAL:HG11	1:e:92:LEU:HD23	1.60	0.82
1:Z:421:VAL:HG11	1:4:92:LEU:HD23	1.60	0.82
1:f:92:LEU:HD23	1:g:421:VAL:HG11	1.60	0.82
1:W:421:VAL:HG11	1:Y:92:LEU:HD23	1.59	0.82
1:E:92:LEU:HD23	1:F:421:VAL:HG11	1.60	0.82
1:R:92:LEU:HD23	1:U:421:VAL:HG11	1.60	0.82
1:B:92:LEU:HD23	1:L:421:VAL:HG11	1.60	0.82
1:D:421:VAL:HG11	1:N:92:LEU:HD23	1.59	0.82

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:i:92:LEU:HD23	1:k:421:VAL:HG11	1.59	0.82
1:z:421:VAL:HG11	1:l:92:LEU:HD23	1.60	0.82
1:A:421:VAL:HG11	1:G:92:LEU:HD23	1.60	0.82
1:E:421:VAL:HG11	1:Q:92:LEU:HD23	1.60	0.82
1:B:421:VAL:HG11	1:J:92:LEU:HD23	1.60	0.82
1:R:421:VAL:HG11	1:S:92:LEU:HD23	1.60	0.82
1:G:421:VAL:HG11	1:I:92:LEU:HD23	1.60	0.82
1:q:92:LEU:HD23	1:s:421:VAL:HG11	1.60	0.82
1:6:421:VAL:HG11	1:7:92:LEU:HD23	1.59	0.82
1:q:421:VAL:HG11	1:r:92:LEU:HD23	1.60	0.81
1:V:92:LEU:HD23	1:X:421:VAL:HG11	1.60	0.81
1:C:92:LEU:HD23	1:M:421:VAL:HG11	1.60	0.81
1:D:63:ARG:NH1	1:D:198:GLY:O	2.14	0.81
1:W:63:ARG:NH1	1:W:198:GLY:O	2.14	0.81
1:a:421:VAL:HG11	1:8:92:LEU:HD23	1.60	0.81
1:K:63:ARG:NH1	1:K:198:GLY:O	2.14	0.81
1:Q:63:ARG:NH1	1:Q:198:GLY:O	2.14	0.81
1:T:63:ARG:NH1	1:T:198:GLY:O	2.14	0.81
1:d:421:VAL:HG11	1:l:92:LEU:HD23	1.60	0.81
1:7:63:ARG:NH1	1:7:198:GLY:O	2.14	0.81
1:I:63:ARG:NH1	1:I:198:GLY:O	2.14	0.81
1:V:63:ARG:NH1	1:V:198:GLY:O	2.14	0.81
1:h:63:ARG:NH1	1:h:198:GLY:O	2.14	0.81
1:i:63:ARG:NH1	1:i:198:GLY:O	2.14	0.81
1:o:63:ARG:NH1	1:o:198:GLY:O	2.14	0.81
1:2:63:ARG:NH1	1:2:198:GLY:O	2.14	0.81
1:B:63:ARG:NH1	1:B:198:GLY:O	2.14	0.80
1:C:63:ARG:NH1	1:C:198:GLY:O	2.14	0.80
1:E:63:ARG:NH1	1:E:198:GLY:O	2.14	0.80
1:G:63:ARG:NH1	1:G:198:GLY:O	2.14	0.80
1:r:63:ARG:NH1	1:r:198:GLY:O	2.14	0.80
1:R:63:ARG:NH1	1:R:198:GLY:O	2.14	0.80
1:q:63:ARG:NH1	1:q:198:GLY:O	2.14	0.80
1:t:63:ARG:NH1	1:t:198:GLY:O	2.14	0.80
1:1:63:ARG:NH1	1:1:198:GLY:O	2.14	0.80
1:j:63:ARG:NH1	1:j:198:GLY:O	2.14	0.80
1:w:63:ARG:NH1	1:w:198:GLY:O	2.14	0.80
1:3:63:ARG:NH1	1:3:198:GLY:O	2.14	0.80
1:5:63:ARG:NH1	1:5:198:GLY:O	2.14	0.80
1:k:63:ARG:NH1	1:k:198:GLY:O	2.14	0.80
1:n:63:ARG:NH1	1:n:198:GLY:O	2.14	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:m:63:ARG:NH1	1:m:198:GLY:O	2.14	0.80
1:u:63:ARG:NH1	1:u:198:GLY:O	2.14	0.80
1:4:63:ARG:NH1	1:4:198:GLY:O	2.14	0.80
1:6:63:ARG:NH1	1:6:198:GLY:O	2.14	0.80
1:O:63:ARG:NH1	1:O:198:GLY:O	2.14	0.80
1:x:63:ARG:NH1	1:x:198:GLY:O	2.14	0.80
1:H:63:ARG:NH1	1:H:198:GLY:O	2.14	0.80
1:P:63:ARG:NH1	1:P:198:GLY:O	2.14	0.80
1:Z:63:ARG:NH1	1:Z:198:GLY:O	2.14	0.80
1:X:63:ARG:NH1	1:X:198:GLY:O	2.14	0.80
1:Y:63:ARG:NH1	1:Y:198:GLY:O	2.14	0.80
1:l:63:ARG:NH1	1:l:198:GLY:O	2.14	0.80
1:8:63:ARG:NH1	1:8:198:GLY:O	2.14	0.80
1:M:63:ARG:NH1	1:M:198:GLY:O	2.14	0.80
1:N:63:ARG:NH1	1:N:198:GLY:O	2.14	0.80
1:p:63:ARG:NH1	1:p:198:GLY:O	2.14	0.80
1:U:63:ARG:NH1	1:U:198:GLY:O	2.14	0.80
1:f:63:ARG:NH1	1:f:198:GLY:O	2.14	0.80
1:a:63:ARG:NH1	1:a:198:GLY:O	2.14	0.79
1:b:63:ARG:NH1	1:b:198:GLY:O	2.14	0.79
1:c:63:ARG:NH1	1:c:198:GLY:O	2.14	0.79
1:g:63:ARG:NH1	1:g:198:GLY:O	2.14	0.79
1:v:63:ARG:NH1	1:v:198:GLY:O	2.14	0.79
1:y:63:ARG:NH1	1:y:198:GLY:O	2.14	0.79
1:1:421:VAL:HG11	1:2:92:LEU:HD23	1.61	0.79
1:B:100:ASP:OD2	1:B:218:ASN:ND2	2.16	0.79
1:D:100:ASP:OD2	1:D:218:ASN:ND2	2.16	0.79
1:L:63:ARG:NH1	1:L:198:GLY:O	2.14	0.79
1:W:100:ASP:OD2	1:W:218:ASN:ND2	2.16	0.79
1:d:63:ARG:NH1	1:d:198:GLY:O	2.14	0.79
1:e:63:ARG:NH1	1:e:198:GLY:O	2.14	0.79
1:C:100:ASP:OD2	1:C:218:ASN:ND2	2.16	0.79
1:I:100:ASP:OD2	1:I:218:ASN:ND2	2.16	0.79
1:Q:100:ASP:OD2	1:Q:218:ASN:ND2	2.16	0.79
1:R:100:ASP:OD2	1:R:218:ASN:ND2	2.16	0.79
1:V:100:ASP:OD2	1:V:218:ASN:ND2	2.16	0.79
1:s:63:ARG:NH1	1:s:198:GLY:O	2.14	0.79
1:O:100:ASP:OD2	1:O:218:ASN:ND2	2.16	0.79
1:Z:100:ASP:OD2	1:Z:218:ASN:ND2	2.16	0.79
1:z:63:ARG:NH1	1:z:198:GLY:O	2.14	0.79
1:5:100:ASP:OD2	1:5:218:ASN:ND2	2.16	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:j:100:ASP:OD2	1:j:218:ASN:ND2	2.16	0.79
1:K:100:ASP:OD2	1:K:218:ASN:ND2	2.16	0.79
1:S:100:ASP:OD2	1:S:218:ASN:ND2	2.16	0.79
1:T:100:ASP:OD2	1:T:218:ASN:ND2	2.16	0.79
1:c:100:ASP:OD2	1:c:218:ASN:ND2	2.16	0.79
1:i:100:ASP:OD2	1:i:218:ASN:ND2	2.16	0.79
1:v:100:ASP:OD2	1:v:218:ASN:ND2	2.16	0.79
1:y:100:ASP:OD2	1:y:218:ASN:ND2	2.16	0.79
1:7:100:ASP:OD2	1:7:218:ASN:ND2	2.16	0.79
1:A:63:ARG:NH1	1:A:198:GLY:O	2.14	0.79
1:A:100:ASP:OD2	1:A:218:ASN:ND2	2.16	0.79
1:J:63:ARG:NH1	1:J:198:GLY:O	2.14	0.79
1:J:100:ASP:OD2	1:J:218:ASN:ND2	2.16	0.79
1:S:63:ARG:NH1	1:S:198:GLY:O	2.14	0.79
1:f:100:ASP:OD2	1:f:218:ASN:ND2	2.16	0.79
1:l:100:ASP:OD2	1:l:218:ASN:ND2	2.16	0.79
1:z:100:ASP:OD2	1:z:218:ASN:ND2	2.16	0.79
1:M:100:ASP:OD2	1:M:218:ASN:ND2	2.16	0.79
1:X:100:ASP:OD2	1:X:218:ASN:ND2	2.16	0.79
1:s:100:ASP:OD2	1:s:218:ASN:ND2	2.16	0.79
1:t:100:ASP:OD2	1:t:218:ASN:ND2	2.16	0.79
1:F:63:ARG:NH1	1:F:198:GLY:O	2.14	0.79
1:F:100:ASP:OD2	1:F:218:ASN:ND2	2.16	0.79
1:L:100:ASP:OD2	1:L:218:ASN:ND2	2.16	0.79
1:w:100:ASP:OD2	1:w:218:ASN:ND2	2.16	0.79
1:8:100:ASP:OD2	1:8:218:ASN:ND2	2.16	0.79
1:N:100:ASP:OD2	1:N:218:ASN:ND2	2.16	0.78
1:d:100:ASP:OD2	1:d:218:ASN:ND2	2.16	0.78
1:1:100:ASP:OD2	1:1:218:ASN:ND2	2.16	0.78
1:E:100:ASP:OD2	1:E:218:ASN:ND2	2.16	0.78
1:G:100:ASP:OD2	1:G:218:ASN:ND2	2.16	0.78
1:U:100:ASP:OD2	1:U:218:ASN:ND2	2.16	0.78
1:Y:100:ASP:OD2	1:Y:218:ASN:ND2	2.16	0.78
1:a:100:ASP:OD2	1:a:218:ASN:ND2	2.16	0.78
1:q:100:ASP:OD2	1:q:218:ASN:ND2	2.16	0.78
1:3:100:ASP:OD2	1:3:218:ASN:ND2	2.16	0.78
1:n:100:ASP:OD2	1:n:218:ASN:ND2	2.16	0.78
1:r:100:ASP:OD2	1:r:218:ASN:ND2	2.16	0.78
1:2:100:ASP:OD2	1:2:218:ASN:ND2	2.16	0.78
1:4:100:ASP:OD2	1:4:218:ASN:ND2	2.16	0.78
1:m:100:ASP:OD2	1:m:218:ASN:ND2	2.16	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:100:ASP:OD2	1:H:218:ASN:ND2	2.16	0.78
1:g:100:ASP:OD2	1:g:218:ASN:ND2	2.16	0.78
1:u:100:ASP:OD2	1:u:218:ASN:ND2	2.16	0.78
1:P:100:ASP:OD2	1:P:218:ASN:ND2	2.16	0.78
1:b:100:ASP:OD2	1:b:218:ASN:ND2	2.16	0.78
1:e:100:ASP:OD2	1:e:218:ASN:ND2	2.16	0.78
1:p:100:ASP:OD2	1:p:218:ASN:ND2	2.16	0.78
1:x:100:ASP:OD2	1:x:218:ASN:ND2	2.16	0.78
1:o:100:ASP:OD2	1:o:218:ASN:ND2	2.16	0.77
1:h:100:ASP:OD2	1:h:218:ASN:ND2	2.16	0.77
1:z:411:ASN:ND2	1:1:342:HIS:O	2.17	0.77
1:6:100:ASP:OD2	1:6:218:ASN:ND2	2.16	0.77
1:H:342:HIS:O	1:Y:411:ASN:ND2	2.18	0.77
1:N:411:ASN:ND2	1:P:342:HIS:O	2.18	0.77
1:A:342:HIS:O	1:I:411:ASN:ND2	2.18	0.77
1:k:100:ASP:OD2	1:k:218:ASN:ND2	2.16	0.77
1:f:411:ASN:ND2	1:h:342:HIS:O	2.18	0.77
1:q:342:HIS:O	1:s:411:ASN:ND2	2.18	0.77
1:r:411:ASN:ND2	1:s:342:HIS:O	2.18	0.77
1:t:342:HIS:O	1:v:411:ASN:ND2	2.18	0.77
1:w:342:HIS:O	1:y:411:ASN:ND2	2.18	0.77
1:O:342:HIS:O	1:n:411:ASN:ND2	2.18	0.77
1:c:411:ASN:ND2	1:o:342:HIS:O	2.18	0.77
1:u:411:ASN:ND2	1:v:342:HIS:O	2.18	0.77
1:x:411:ASN:ND2	1:y:342:HIS:O	2.18	0.77
1:A:411:ASN:ND2	1:G:342:HIS:O	2.18	0.77
1:E:342:HIS:O	1:F:411:ASN:ND2	2.18	0.77
1:E:411:ASN:ND2	1:Q:342:HIS:O	2.18	0.77
1:F:342:HIS:O	1:Q:411:ASN:ND2	2.18	0.77
1:Z:342:HIS:O	1:3:411:ASN:ND2	2.18	0.77
1:G:411:ASN:ND2	1:I:342:HIS:O	2.18	0.77
1:H:411:ASN:ND2	1:W:342:HIS:O	2.18	0.77
1:c:342:HIS:O	1:p:411:ASN:ND2	2.18	0.77
1:f:342:HIS:O	1:g:411:ASN:ND2	2.18	0.77
1:i:342:HIS:O	1:k:411:ASN:ND2	2.18	0.77
1:t:411:ASN:ND2	1:u:342:HIS:O	2.18	0.77
1:B:342:HIS:O	1:L:411:ASN:ND2	2.18	0.77
1:B:407:TRP:CD1	1:B:410:LYS:HG2	2.20	0.77
1:O:407:TRP:CD1	1:O:410:LYS:HG2	2.20	0.77
1:R:407:TRP:CD1	1:R:410:LYS:HG2	2.20	0.77
1:Z:407:TRP:CD1	1:Z:410:LYS:HG2	2.20	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:i:411:ASN:ND2	1:j:342:HIS:O	2.18	0.77
1:u:407:TRP:CD1	1:u:410:LYS:HG2	2.20	0.77
1:w:411:ASN:ND2	1:x:342:HIS:O	2.18	0.77
1:5:342:HIS:O	1:7:411:ASN:ND2	2.18	0.77
1:6:407:TRP:CD1	1:6:410:LYS:HG2	2.20	0.77
1:D:342:HIS:O	1:P:411:ASN:ND2	2.18	0.77
1:R:342:HIS:O	1:U:411:ASN:ND2	2.18	0.77
1:V:342:HIS:O	1:X:411:ASN:ND2	2.18	0.77
1:h:407:TRP:CD1	1:h:410:LYS:HG2	2.20	0.77
1:k:407:TRP:CD1	1:k:410:LYS:HG2	2.20	0.77
1:o:407:TRP:CD1	1:o:410:LYS:HG2	2.20	0.77
1:q:407:TRP:CD1	1:q:410:LYS:HG2	2.20	0.77
1:x:407:TRP:CD1	1:x:410:LYS:HG2	2.20	0.77
1:1:407:TRP:CD1	1:1:410:LYS:HG2	2.20	0.77
1:6:411:ASN:ND2	1:7:342:HIS:O	2.18	0.77
1:C:342:HIS:O	1:M:411:ASN:ND2	2.18	0.76
1:S:407:TRP:CD1	1:S:410:LYS:HG2	2.20	0.76
1:J:407:TRP:CD1	1:J:410:LYS:HG2	2.20	0.76
1:J:411:ASN:ND2	1:L:342:HIS:O	2.18	0.76
1:P:407:TRP:CD1	1:P:410:LYS:HG2	2.20	0.76
1:d:411:ASN:ND2	1:l:342:HIS:O	2.18	0.76
1:t:407:TRP:CD1	1:t:410:LYS:HG2	2.20	0.76
1:A:407:TRP:CD1	1:A:410:LYS:HG2	2.20	0.76
1:F:407:TRP:CD1	1:F:410:LYS:HG2	2.20	0.76
1:H:407:TRP:CD1	1:H:410:LYS:HG2	2.20	0.76
1:a:407:TRP:CD1	1:a:410:LYS:HG2	2.20	0.76
1:a:411:ASN:ND2	1:8:342:HIS:O	2.18	0.76
1:d:407:TRP:CD1	1:d:410:LYS:HG2	2.20	0.76
1:m:411:ASN:ND2	1:n:342:HIS:O	2.18	0.76
1:S:411:ASN:ND2	1:U:342:HIS:O	2.18	0.76
1:X:342:HIS:O	1:e:411:ASN:ND2	2.18	0.76
1:X:407:TRP:CD1	1:X:410:LYS:HG2	2.20	0.76
1:g:342:HIS:O	1:h:411:ASN:ND2	2.18	0.76
1:w:407:TRP:CD1	1:w:410:LYS:HG2	2.21	0.76
1:3:407:TRP:CD1	1:3:410:LYS:HG2	2.20	0.76
1:6:407:TRP:HD1	1:6:410:LYS:HG2	1.51	0.76
1:K:342:HIS:O	1:8:411:ASN:ND2	2.18	0.76
1:M:342:HIS:O	1:b:411:ASN:ND2	2.18	0.76
1:M:407:TRP:CD1	1:M:410:LYS:HG2	2.20	0.76
1:O:411:ASN:ND2	1:m:342:HIS:O	2.18	0.76
1:Y:407:TRP:CD1	1:Y:410:LYS:HG2	2.20	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:k:407:TRP:HD1	1:k:410:LYS:HG2	1.51	0.76
1:n:407:TRP:CD1	1:n:410:LYS:HG2	2.20	0.76
1:r:407:TRP:HD1	1:r:410:LYS:HG2	1.51	0.76
1:2:407:TRP:HD1	1:2:410:LYS:HG2	1.51	0.76
1:3:342:HIS:O	1:4:411:ASN:ND2	2.18	0.76
1:4:407:TRP:HD1	1:4:410:LYS:HG2	1.51	0.76
1:K:407:TRP:CD1	1:K:410:LYS:HG2	2.20	0.76
1:R:411:ASN:ND2	1:S:342:HIS:O	2.18	0.76
1:T:342:HIS:O	1:l:411:ASN:ND2	2.18	0.76
1:T:407:TRP:CD1	1:T:410:LYS:HG2	2.20	0.76
1:T:411:ASN:ND2	1:d:342:HIS:O	2.18	0.76
1:U:407:TRP:HD1	1:U:410:LYS:HG2	1.51	0.76
1:V:411:ASN:ND2	1:e:342:HIS:O	2.18	0.76
1:Z:411:ASN:ND2	1:4:342:HIS:O	2.18	0.76
1:j:407:TRP:CD1	1:j:410:LYS:HG2	2.20	0.76
1:j:411:ASN:ND2	1:k:342:HIS:O	2.18	0.76
1:l:407:TRP:CD1	1:l:410:LYS:HG2	2.20	0.76
1:o:411:ASN:ND2	1:p:342:HIS:O	2.18	0.76
1:t:407:TRP:HD1	1:t:410:LYS:HG2	1.51	0.76
1:u:407:TRP:HD1	1:u:410:LYS:HG2	1.51	0.76
1:B:411:ASN:ND2	1:J:342:HIS:O	2.18	0.76
1:K:411:ASN:ND2	1:a:342:HIS:O	2.18	0.76
1:L:407:TRP:HD1	1:L:410:LYS:HG2	1.51	0.76
1:N:407:TRP:CD1	1:N:410:LYS:HG2	2.20	0.76
1:e:407:TRP:HD1	1:e:410:LYS:HG2	1.51	0.76
1:g:407:TRP:CD1	1:g:410:LYS:HG2	2.20	0.76
1:m:407:TRP:HD1	1:m:410:LYS:HG2	1.51	0.76
1:s:407:TRP:CD1	1:s:410:LYS:HG2	2.20	0.76
1:v:407:TRP:CD1	1:v:410:LYS:HG2	2.20	0.76
1:y:407:TRP:CD1	1:y:410:LYS:HG2	2.20	0.76
1:z:407:TRP:CD1	1:z:410:LYS:HG2	2.20	0.76
1:5:411:ASN:ND2	1:6:342:HIS:O	2.18	0.76
1:8:407:TRP:CD1	1:8:410:LYS:HG2	2.20	0.76
1:C:411:ASN:ND2	1:b:342:HIS:O	2.18	0.76
1:b:407:TRP:HD1	1:b:410:LYS:HG2	1.51	0.76
1:q:407:TRP:HD1	1:q:410:LYS:HG2	1.51	0.76
1:w:407:TRP:HD1	1:w:410:LYS:HG2	1.51	0.76
1:x:407:TRP:HD1	1:x:410:LYS:HG2	1.51	0.76
1:5:407:TRP:CD1	1:5:410:LYS:HG2	2.20	0.76
1:E:407:TRP:CD1	1:E:410:LYS:HG2	2.20	0.76
1:P:407:TRP:HD1	1:P:410:LYS:HG2	1.51	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1:407:TRP:HD1	1:1:410:LYS:HG2	1.51	0.76
1:Q:407:TRP:CD1	1:Q:410:LYS:HG2	2.20	0.76
1:W:411:ASN:ND2	1:Y:342:HIS:O	2.18	0.76
1:c:407:TRP:CD1	1:c:410:LYS:HG2	2.20	0.76
1:i:407:TRP:CD1	1:i:410:LYS:HG2	2.20	0.76
1:i:407:TRP:HD1	1:i:410:LYS:HG2	1.51	0.76
1:p:407:TRP:CD1	1:p:410:LYS:HG2	2.20	0.76
1:q:411:ASN:ND2	1:r:342:HIS:O	2.18	0.76
1:r:407:TRP:CD1	1:r:410:LYS:HG2	2.20	0.76
1:z:342:HIS:O	1:2:411:ASN:ND2	2.19	0.76
1:H:407:TRP:HD1	1:H:410:LYS:HG2	1.51	0.75
1:f:407:TRP:CD1	1:f:410:LYS:HG2	2.20	0.75
1:2:407:TRP:CD1	1:2:410:LYS:HG2	2.20	0.75
1:7:407:TRP:CD1	1:7:410:LYS:HG2	2.20	0.75
1:D:411:ASN:ND2	1:N:342:HIS:O	2.18	0.75
1:G:407:TRP:CD1	1:G:410:LYS:HG2	2.21	0.75
1:I:407:TRP:CD1	1:I:410:LYS:HG2	2.20	0.75
1:4:407:TRP:CD1	1:4:410:LYS:HG2	2.20	0.75
1:L:407:TRP:CD1	1:L:410:LYS:HG2	2.20	0.75
1:U:407:TRP:CD1	1:U:410:LYS:HG2	2.20	0.75
1:m:407:TRP:CD1	1:m:410:LYS:HG2	2.20	0.75
1:7:407:TRP:HD1	1:7:410:LYS:HG2	1.51	0.75
1:D:407:TRP:CD1	1:D:410:LYS:HG2	2.20	0.75
1:f:407:TRP:HD1	1:f:410:LYS:HG2	1.51	0.75
1:E:407:TRP:HD1	1:E:410:LYS:HG2	1.51	0.75
1:S:407:TRP:HD1	1:S:410:LYS:HG2	1.51	0.75
1:W:407:TRP:CD1	1:W:410:LYS:HG2	2.20	0.75
1:W:407:TRP:HD1	1:W:410:LYS:HG2	1.51	0.75
1:h:407:TRP:HD1	1:h:410:LYS:HG2	1.51	0.75
1:G:407:TRP:HD1	1:G:410:LYS:HG2	1.51	0.75
1:J:407:TRP:HD1	1:J:410:LYS:HG2	1.51	0.75
1:o:407:TRP:HD1	1:o:410:LYS:HG2	1.51	0.75
1:A:283:SER:H	1:A:286:HIS:HD2	1.35	0.75
1:A:407:TRP:HD1	1:A:410:LYS:HG2	1.51	0.75
1:D:407:TRP:HD1	1:D:410:LYS:HG2	1.51	0.75
1:N:407:TRP:HD1	1:N:410:LYS:HG2	1.51	0.75
1:V:407:TRP:HD1	1:V:410:LYS:HG2	1.51	0.75
1:X:407:TRP:HD1	1:X:410:LYS:HG2	1.51	0.75
1:c:407:TRP:HD1	1:c:410:LYS:HG2	1.51	0.75
1:y:407:TRP:HD1	1:y:410:LYS:HG2	1.51	0.75
1:3:407:TRP:HD1	1:3:410:LYS:HG2	1.51	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:407:TRP:CD1	1:C:410:LYS:HG2	2.20	0.75
1:F:283:SER:H	1:F:286:HIS:HD2	1.35	0.75
1:M:407:TRP:HD1	1:M:410:LYS:HG2	1.51	0.75
1:Q:407:TRP:HD1	1:Q:410:LYS:HG2	1.51	0.75
1:Y:407:TRP:HD1	1:Y:410:LYS:HG2	1.51	0.75
1:n:407:TRP:HD1	1:n:410:LYS:HG2	1.51	0.75
1:s:283:SER:H	1:s:286:HIS:HD2	1.35	0.75
1:v:407:TRP:HD1	1:v:410:LYS:HG2	1.51	0.75
1:z:283:SER:H	1:z:286:HIS:HD2	1.35	0.75
1:P:283:SER:H	1:P:286:HIS:HD2	1.35	0.75
1:V:407:TRP:CD1	1:V:410:LYS:HG2	2.20	0.75
1:C:407:TRP:HD1	1:C:410:LYS:HG2	1.51	0.74
1:F:407:TRP:HD1	1:F:410:LYS:HG2	1.51	0.74
1:H:283:SER:H	1:H:286:HIS:HD2	1.35	0.74
1:I:407:TRP:HD1	1:I:410:LYS:HG2	1.51	0.74
1:h:283:SER:H	1:h:286:HIS:HD2	1.35	0.74
1:z:407:TRP:HD1	1:z:410:LYS:HG2	1.51	0.74
1:e:407:TRP:CD1	1:e:410:LYS:HG2	2.20	0.74
1:o:283:SER:H	1:o:286:HIS:HD2	1.35	0.74
1:b:407:TRP:CD1	1:b:410:LYS:HG2	2.20	0.74
1:s:407:TRP:HD1	1:s:410:LYS:HG2	1.51	0.74
1:2:381:TYR:CD2	1:3:497:THR:OG1	2.41	0.74
1:5:283:SER:H	1:5:286:HIS:HD2	1.35	0.74
1:b:283:SER:H	1:b:286:HIS:HD2	1.35	0.74
1:e:283:SER:H	1:e:286:HIS:HD2	1.35	0.74
1:M:283:SER:H	1:M:286:HIS:HD2	1.35	0.74
1:X:283:SER:H	1:X:286:HIS:HD2	1.35	0.74
1:j:283:SER:H	1:j:286:HIS:HD2	1.35	0.74
1:p:283:SER:H	1:p:286:HIS:HD2	1.35	0.74
1:r:283:SER:H	1:r:286:HIS:HD2	1.35	0.74
1:z:371:GLN:NE2	1:2:416:ASN:OD1	2.21	0.74
1:T:407:TRP:HD1	1:T:410:LYS:HG2	1.51	0.74
1:2:283:SER:H	1:2:286:HIS:HD2	1.35	0.74
1:K:407:TRP:HD1	1:K:410:LYS:HG2	1.51	0.74
1:g:283:SER:H	1:g:286:HIS:HD2	1.35	0.74
1:y:283:SER:H	1:y:286:HIS:HD2	1.35	0.74
1:O:407:TRP:HD1	1:O:410:LYS:HG2	1.51	0.74
1:Z:407:TRP:HD1	1:Z:410:LYS:HG2	1.51	0.74
1:8:407:TRP:HD1	1:8:410:LYS:HG2	1.51	0.74
1:u:283:SER:H	1:u:286:HIS:HD2	1.35	0.74
1:v:283:SER:H	1:v:286:HIS:HD2	1.35	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:283:SER:H	1:I:286:HIS:HD2	1.35	0.74
1:L:283:SER:H	1:L:286:HIS:HD2	1.35	0.74
1:U:283:SER:H	1:U:286:HIS:HD2	1.35	0.74
1:l:407:TRP:HD1	1:l:410:LYS:HG2	1.51	0.74
1:x:283:SER:H	1:x:286:HIS:HD2	1.35	0.74
1:Q:283:SER:H	1:Q:286:HIS:HD2	1.35	0.73
1:j:407:TRP:HD1	1:j:410:LYS:HG2	1.51	0.73
1:5:407:TRP:HD1	1:5:410:LYS:HG2	1.51	0.73
1:R:407:TRP:HD1	1:R:410:LYS:HG2	1.51	0.73
1:p:407:TRP:HD1	1:p:410:LYS:HG2	1.51	0.73
1:g:407:TRP:HD1	1:g:410:LYS:HG2	1.51	0.73
1:v:497:THR:OG1	1:1:381:TYR:CD2	2.42	0.73
1:B:407:TRP:HD1	1:B:410:LYS:HG2	1.51	0.73
1:q:283:SER:H	1:q:286:HIS:HD2	1.35	0.73
1:1:411:ASN:ND2	1:2:342:HIS:O	2.21	0.73
1:g:381:TYR:CD2	1:1:497:THR:OG1	2.41	0.73
1:A:381:TYR:CD2	1:E:497:THR:OG1	2.42	0.73
1:M:497:THR:OG1	1:c:381:TYR:CD2	2.42	0.73
1:X:497:THR:OG1	1:f:381:TYR:CD2	2.42	0.73
1:r:497:THR:OG1	1:x:381:TYR:CD2	2.42	0.73
1:1:283:SER:H	1:1:286:HIS:HD2	1.35	0.73
1:3:283:SER:H	1:3:286:HIS:HD2	1.35	0.73
1:G:283:SER:H	1:G:286:HIS:HD2	1.35	0.73
1:L:381:TYR:CD2	1:b:497:THR:OG1	2.42	0.73
1:F:381:TYR:CD2	1:G:497:THR:OG1	2.42	0.73
1:U:381:TYR:CD2	1:e:497:THR:OG1	2.42	0.73
1:n:283:SER:H	1:n:286:HIS:HD2	1.35	0.73
1:q:381:TYR:CD2	1:y:497:THR:OG1	2.42	0.73
1:a:407:TRP:HD1	1:a:410:LYS:HG2	1.51	0.73
1:i:283:SER:H	1:i:286:HIS:HD2	1.35	0.73
1:l:497:THR:OG1	1:n:381:TYR:CD2	2.42	0.73
1:E:283:SER:H	1:E:286:HIS:HD2	1.35	0.72
1:J:381:TYR:CD2	1:a:497:THR:OG1	2.42	0.72
1:k:497:THR:OG1	1:w:381:TYR:CD2	2.42	0.72
1:t:381:TYR:CD2	1:6:497:THR:OG1	2.42	0.72
1:v:381:TYR:CD2	1:w:497:THR:OG1	2.42	0.72
1:A:497:THR:OG1	1:B:381:TYR:CD2	2.42	0.72
1:F:497:THR:OG1	1:R:381:TYR:CD2	2.42	0.72
1:O:381:TYR:CD2	1:P:497:THR:OG1	2.42	0.72
1:P:381:TYR:CD2	1:Q:497:THR:OG1	2.43	0.72
1:Y:283:SER:H	1:Y:286:HIS:HD2	1.35	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:d:407:TRP:HD1	1:d:410:LYS:HG2	1.51	0.72
1:n:497:THR:OG1	1:r:381:TYR:CD2	2.43	0.72
1:t:497:THR:OG1	1:y:381:TYR:CD2	2.42	0.72
1:l:416:ASN:OD1	1:2:371:GLN:NE2	2.21	0.72
1:3:381:TYR:CD2	1:8:497:THR:OG1	2.42	0.72
1:H:381:TYR:CD2	1:I:497:THR:OG1	2.43	0.72
1:N:283:SER:H	1:N:286:HIS:HD2	1.35	0.72
1:S:381:TYR:CD2	1:d:497:THR:OG1	2.42	0.72
1:g:497:THR:OG1	1:k:381:TYR:CD2	2.43	0.72
1:m:283:SER:H	1:m:286:HIS:HD2	1.35	0.72
1:p:381:TYR:CD2	1:q:497:THR:OG1	2.42	0.72
1:7:283:SER:H	1:7:286:HIS:HD2	1.35	0.72
1:C:283:SER:H	1:C:286:HIS:HD2	1.35	0.72
1:C:497:THR:OG1	1:D:381:TYR:CD2	2.43	0.72
1:H:497:THR:OG1	1:Z:381:TYR:CD2	2.42	0.72
1:V:497:THR:OG1	1:W:381:TYR:CD2	2.43	0.72
1:p:497:THR:OG1	1:6:381:TYR:CD2	2.43	0.72
1:4:283:SER:H	1:4:286:HIS:HD2	1.35	0.72
1:D:283:SER:H	1:D:286:HIS:HD2	1.35	0.72
1:K:283:SER:H	1:K:286:HIS:HD2	1.35	0.72
1:V:283:SER:H	1:V:286:HIS:HD2	1.35	0.72
1:f:497:THR:OG1	1:z:381:TYR:CD2	2.42	0.72
1:m:381:TYR:CD2	1:s:497:THR:OG1	2.42	0.72
1:w:283:SER:H	1:w:286:HIS:HD2	1.35	0.72
1:z:497:THR:OG1	1:4:381:TYR:CD2	2.42	0.72
1:t:283:SER:H	1:t:286:HIS:HD2	1.35	0.72
1:K:381:TYR:CD2	1:L:497:THR:OG1	2.42	0.72
1:T:283:SER:H	1:T:286:HIS:HD2	1.35	0.72
1:c:497:THR:OG1	1:s:381:TYR:CD2	2.42	0.72
1:i:416:ASN:OD1	1:j:371:GLN:NE2	2.23	0.72
1:t:371:GLN:NE2	1:v:416:ASN:OD1	2.23	0.72
1:w:371:GLN:NE2	1:y:416:ASN:OD1	2.23	0.72
1:5:371:GLN:NE2	1:7:416:ASN:OD1	2.23	0.72
1:T:381:TYR:CD2	1:U:497:THR:OG1	2.42	0.72
1:W:283:SER:H	1:W:286:HIS:HD2	1.35	0.72
1:Z:283:SER:H	1:Z:286:HIS:HD2	1.35	0.72
1:a:416:ASN:OD1	1:8:371:GLN:NE2	2.23	0.72
1:d:416:ASN:OD1	1:l:371:GLN:NE2	2.23	0.72
1:e:381:TYR:CD2	1:h:497:THR:OG1	2.42	0.72
1:o:381:TYR:CD2	1:7:497:THR:OG1	2.42	0.72
1:B:497:THR:OG1	1:C:381:TYR:CD2	2.42	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:O:497:THR:OG1	1:d:381:TYR:CD2	2.42	0.72
1:X:371:GLN:NE2	1:e:416:ASN:OD1	2.23	0.72
1:Z:497:THR:OG1	1:a:381:TYR:CD2	2.42	0.72
1:b:381:TYR:CD2	1:o:497:THR:OG1	2.42	0.72
1:r:416:ASN:OD1	1:s:371:GLN:NE2	2.23	0.72
1:A:416:ASN:OD1	1:G:371:GLN:NE2	2.23	0.71
1:B:283:SER:H	1:B:286:HIS:HD2	1.35	0.71
1:E:371:GLN:NE2	1:F:416:ASN:OD1	2.23	0.71
1:E:416:ASN:OD1	1:Q:371:GLN:NE2	2.23	0.71
1:M:371:GLN:NE2	1:b:416:ASN:OD1	2.23	0.71
1:N:381:TYR:CD2	1:m:497:THR:OG1	2.43	0.71
1:Q:381:TYR:CD2	1:S:497:THR:OG1	2.42	0.71
1:R:497:THR:OG1	1:V:381:TYR:CD2	2.42	0.71
1:h:381:TYR:CD2	1:i:497:THR:OG1	2.42	0.71
1:i:371:GLN:NE2	1:k:416:ASN:OD1	2.23	0.71
1:j:497:THR:OG1	1:l:381:TYR:CD2	2.42	0.71
1:5:416:ASN:OD1	1:6:371:GLN:NE2	2.23	0.71
1:G:381:TYR:CD2	1:W:497:THR:OG1	2.42	0.71
1:O:416:ASN:OD1	1:m:371:GLN:NE2	2.23	0.71
1:R:283:SER:H	1:R:286:HIS:HD2	1.35	0.71
1:X:381:TYR:CD2	1:Y:497:THR:OG1	2.42	0.71
1:Y:381:TYR:CD2	1:4:497:THR:OG1	2.43	0.71
1:c:283:SER:H	1:c:286:HIS:HD2	1.35	0.71
1:j:416:ASN:OD1	1:k:371:GLN:NE2	2.23	0.71
1:u:497:THR:OG1	1:5:381:TYR:CD2	2.43	0.71
1:6:416:ASN:OD1	1:7:371:GLN:NE2	2.23	0.71
1:D:497:THR:OG1	1:E:381:TYR:CD2	2.42	0.71
1:G:416:ASN:OD1	1:I:371:GLN:NE2	2.23	0.71
1:J:283:SER:H	1:J:286:HIS:HD2	1.35	0.71
1:K:416:ASN:OD1	1:a:371:GLN:NE2	2.23	0.71
1:M:381:TYR:CD2	1:N:497:THR:OG1	2.42	0.71
1:O:283:SER:H	1:O:286:HIS:HD2	1.35	0.71
1:S:283:SER:H	1:S:286:HIS:HD2	1.35	0.71
1:Z:371:GLN:NE2	1:3:416:ASN:OD1	2.22	0.71
1:Z:416:ASN:OD1	1:4:371:GLN:NE2	2.23	0.71
1:d:283:SER:H	1:d:286:HIS:HD2	1.35	0.71
1:f:283:SER:H	1:f:286:HIS:HD2	1.35	0.71
1:j:381:TYR:CD2	1:x:497:THR:OG1	2.43	0.71
1:q:371:GLN:NE2	1:s:416:ASN:OD1	2.23	0.71
1:q:499:GLY:CA	1:q:503:ASN:ND2	2.53	0.71
1:5:497:THR:OG1	1:8:381:TYR:CD2	2.42	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:499:GLY:CA	1:A:503:ASN:ND2	2.54	0.71
1:I:381:TYR:CD2	1:J:497:THR:OG1	2.42	0.71
1:N:499:GLY:CA	1:N:503:ASN:ND2	2.53	0.71
1:T:416:ASN:OD1	1:d:371:GLN:NE2	2.23	0.71
1:Y:499:GLY:CA	1:Y:503:ASN:ND2	2.53	0.71
1:z:499:GLY:CA	1:z:503:ASN:ND2	2.54	0.71
1:O:371:GLN:NE2	1:n:416:ASN:OD1	2.23	0.71
1:a:283:SER:H	1:a:286:HIS:HD2	1.35	0.71
1:7:499:GLY:CA	1:7:503:ASN:ND2	2.53	0.71
1:H:416:ASN:OD1	1:W:371:GLN:NE2	2.23	0.71
1:T:497:THR:OG1	1:i:381:TYR:CD2	2.43	0.71
1:c:416:ASN:OD1	1:o:371:GLN:NE2	2.23	0.71
1:f:416:ASN:OD1	1:h:371:GLN:NE2	2.23	0.71
1:z:416:ASN:OD1	1:l:371:GLN:NE2	2.23	0.71
1:D:371:GLN:NE2	1:P:416:ASN:OD1	2.23	0.71
1:D:416:ASN:OD1	1:N:371:GLN:NE2	2.23	0.71
1:K:497:THR:OG1	1:7:381:TYR:CD2	2.43	0.71
1:A:371:GLN:NE2	1:I:416:ASN:OD1	2.23	0.71
1:C:371:GLN:NE2	1:M:416:ASN:OD1	2.23	0.71
1:E:499:GLY:CA	1:E:503:ASN:ND2	2.54	0.71
1:G:499:GLY:CA	1:G:503:ASN:ND2	2.54	0.71
1:O:499:GLY:CA	1:O:503:ASN:ND2	2.53	0.71
1:R:416:ASN:OD1	1:S:371:GLN:NE2	2.23	0.71
1:V:416:ASN:OD1	1:e:371:GLN:NE2	2.23	0.71
1:W:416:ASN:OD1	1:Y:371:GLN:NE2	2.23	0.71
1:u:416:ASN:OD1	1:v:371:GLN:NE2	2.23	0.71
1:x:416:ASN:OD1	1:y:371:GLN:NE2	2.23	0.71
1:B:416:ASN:OD1	1:J:371:GLN:NE2	2.23	0.71
1:K:371:GLN:NE2	1:8:416:ASN:OD1	2.23	0.71
1:S:416:ASN:OD1	1:U:371:GLN:NE2	2.23	0.71
1:V:371:GLN:NE2	1:X:416:ASN:OD1	2.23	0.71
1:Z:499:GLY:CA	1:Z:503:ASN:ND2	2.53	0.71
1:k:283:SER:H	1:k:286:HIS:HD2	1.35	0.71
1:C:416:ASN:OD1	1:b:371:GLN:NE2	2.23	0.71
1:T:371:GLN:NE2	1:l:416:ASN:OD1	2.23	0.71
1:3:371:GLN:NE2	1:4:416:ASN:OD1	2.23	0.71
1:F:371:GLN:NE2	1:Q:416:ASN:OD1	2.23	0.70
1:I:499:GLY:CA	1:I:503:ASN:ND2	2.54	0.70
1:J:416:ASN:OD1	1:L:371:GLN:NE2	2.23	0.70
1:m:416:ASN:OD1	1:n:371:GLN:NE2	2.23	0.70
1:q:416:ASN:OD1	1:r:371:GLN:NE2	2.23	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Q:499:GLY:CA	1:Q:503:ASN:ND2	2.54	0.70
1:R:371:GLN:NE2	1:U:416:ASN:OD1	2.23	0.70
1:t:416:ASN:OD1	1:u:371:GLN:NE2	2.23	0.70
1:8:283:SER:H	1:8:286:HIS:HD2	1.35	0.70
1:H:499:GLY:CA	1:H:503:ASN:ND2	2.54	0.70
1:g:371:GLN:NE2	1:h:416:ASN:OD1	2.23	0.70
1:w:416:ASN:OD1	1:x:371:GLN:NE2	2.23	0.70
1:x:499:GLY:CA	1:x:503:ASN:ND2	2.54	0.70
1:B:371:GLN:NE2	1:L:416:ASN:OD1	2.23	0.70
1:P:499:GLY:CA	1:P:503:ASN:ND2	2.54	0.70
1:Z:78:TYR:OH	1:Z:105:GLN:NE2	2.25	0.70
1:c:371:GLN:NE2	1:p:416:ASN:OD1	2.23	0.70
1:f:371:GLN:NE2	1:g:416:ASN:OD1	2.23	0.70
1:u:499:GLY:CA	1:u:503:ASN:ND2	2.54	0.70
1:6:283:SER:H	1:6:286:HIS:HD2	1.35	0.70
1:H:78:TYR:OH	1:H:105:GLN:NE2	2.25	0.70
1:O:78:TYR:OH	1:O:105:GLN:NE2	2.25	0.70
1:X:78:TYR:OH	1:X:105:GLN:NE2	2.25	0.70
1:l:283:SER:H	1:l:286:HIS:HD2	1.35	0.70
1:o:416:ASN:OD1	1:p:371:GLN:NE2	2.23	0.70
1:K:499:GLY:CA	1:K:503:ASN:ND2	2.54	0.70
1:M:78:TYR:OH	1:M:105:GLN:NE2	2.25	0.70
1:P:78:TYR:OH	1:P:105:GLN:NE2	2.25	0.70
1:T:499:GLY:CA	1:T:503:ASN:ND2	2.53	0.70
1:U:78:TYR:OH	1:U:105:GLN:NE2	2.25	0.70
1:W:78:TYR:OH	1:W:105:GLN:NE2	2.25	0.70
1:i:78:TYR:OH	1:i:105:GLN:NE2	2.25	0.70
1:k:78:TYR:OH	1:k:105:GLN:NE2	2.25	0.70
1:q:78:TYR:OH	1:q:105:GLN:NE2	2.25	0.70
1:r:78:TYR:OH	1:r:105:GLN:NE2	2.25	0.70
1:v:499:GLY:CA	1:v:503:ASN:ND2	2.54	0.70
1:y:499:GLY:CA	1:y:503:ASN:ND2	2.54	0.70
1:7:78:TYR:OH	1:7:105:GLN:NE2	2.25	0.70
1:D:78:TYR:OH	1:D:105:GLN:NE2	2.25	0.70
1:L:78:TYR:OH	1:L:105:GLN:NE2	2.25	0.70
1:1:78:TYR:OH	1:1:105:GLN:NE2	2.25	0.70
1:2:78:TYR:OH	1:2:105:GLN:NE2	2.25	0.70
1:6:78:TYR:OH	1:6:105:GLN:NE2	2.25	0.70
1:B:78:TYR:OH	1:B:105:GLN:NE2	2.25	0.70
1:N:416:ASN:OD1	1:P:371:GLN:NE2	2.23	0.70
1:R:78:TYR:OH	1:R:105:GLN:NE2	2.25	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:78:TYR:OH	1:I:105:GLN:NE2	2.25	0.70
1:v:78:TYR:OH	1:v:105:GLN:NE2	2.25	0.70
1:y:78:TYR:OH	1:y:105:GLN:NE2	2.25	0.70
1:3:78:TYR:OH	1:3:105:GLN:NE2	2.25	0.70
1:H:371:GLN:NE2	1:Y:416:ASN:OD1	2.23	0.69
1:c:499:GLY:CA	1:c:503:ASN:ND2	2.54	0.69
1:f:499:GLY:CA	1:f:503:ASN:ND2	2.54	0.69
1:n:78:TYR:OH	1:n:105:GLN:NE2	2.25	0.69
1:u:381:TYR:CD2	1:2:497:THR:OG1	2.45	0.69
1:Q:78:TYR:OH	1:Q:105:GLN:NE2	2.25	0.69
1:N:78:TYR:OH	1:N:105:GLN:NE2	2.25	0.69
1:G:78:TYR:OH	1:G:105:GLN:NE2	2.25	0.69
1:J:78:TYR:OH	1:J:105:GLN:NE2	2.25	0.69
1:d:78:TYR:OH	1:d:105:GLN:NE2	2.25	0.69
1:p:499:GLY:CA	1:p:503:ASN:ND2	2.53	0.69
1:u:78:TYR:OH	1:u:105:GLN:NE2	2.25	0.69
1:S:78:TYR:OH	1:S:105:GLN:NE2	2.25	0.69
1:Y:78:TYR:OH	1:Y:105:GLN:NE2	2.25	0.69
1:a:78:TYR:OH	1:a:105:GLN:NE2	2.25	0.69
1:b:78:TYR:OH	1:b:105:GLN:NE2	2.25	0.69
1:g:499:GLY:CA	1:g:503:ASN:ND2	2.54	0.69
1:s:78:TYR:OH	1:s:105:GLN:NE2	2.25	0.69
1:x:78:TYR:OH	1:x:105:GLN:NE2	2.25	0.69
1:z:78:TYR:OH	1:z:105:GLN:NE2	2.25	0.69
1:E:78:TYR:OH	1:E:105:GLN:NE2	2.25	0.69
1:F:78:TYR:OH	1:F:105:GLN:NE2	2.25	0.69
1:M:499:GLY:CA	1:M:503:ASN:ND2	2.53	0.69
1:X:499:GLY:CA	1:X:503:ASN:ND2	2.53	0.69
1:c:78:TYR:OH	1:c:105:GLN:NE2	2.25	0.69
1:f:78:TYR:OH	1:f:105:GLN:NE2	2.25	0.69
1:j:78:TYR:OH	1:j:105:GLN:NE2	2.25	0.69
1:A:78:TYR:OH	1:A:105:GLN:NE2	2.25	0.69
1:C:499:GLY:CA	1:C:503:ASN:ND2	2.53	0.69
1:d:499:GLY:CA	1:d:503:ASN:ND2	2.54	0.69
1:e:78:TYR:OH	1:e:105:GLN:NE2	2.25	0.69
1:p:563:CYS:SG	1:p:564:MET:N	2.66	0.69
1:z:563:CYS:SG	1:z:564:MET:N	2.66	0.69
1:3:499:GLY:CA	1:3:503:ASN:ND2	2.54	0.69
1:5:78:TYR:OH	1:5:105:GLN:NE2	2.25	0.69
1:V:499:GLY:CA	1:V:503:ASN:ND2	2.53	0.69
1:a:499:GLY:CA	1:a:503:ASN:ND2	2.54	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:g:78:TYR:OH	1:g:105:GLN:NE2	2.25	0.69
1:g:563:CYS:SG	1:g:564:MET:N	2.66	0.69
1:m:78:TYR:OH	1:m:105:GLN:NE2	2.25	0.69
1:n:499:GLY:CA	1:n:503:ASN:ND2	2.54	0.69
1:s:563:CYS:SG	1:s:564:MET:N	2.66	0.69
1:B:145:THR:OG1	1:B:514:THR:OG1	2.11	0.69
1:C:563:CYS:SG	1:C:564:MET:N	2.66	0.69
1:L:145:THR:OG1	1:L:514:THR:OG1	2.11	0.69
1:V:563:CYS:SG	1:V:564:MET:N	2.66	0.69
1:m:563:CYS:SG	1:m:564:MET:N	2.66	0.69
1:4:78:TYR:OH	1:4:105:GLN:NE2	2.25	0.69
1:4:563:CYS:SG	1:4:564:MET:N	2.66	0.69
1:R:145:THR:OG1	1:R:514:THR:OG1	2.12	0.69
1:U:145:THR:OG1	1:U:514:THR:OG1	2.11	0.69
1:a:145:THR:OG1	1:a:514:THR:OG1	2.11	0.69
1:b:145:THR:OG1	1:b:514:THR:OG1	2.11	0.69
1:b:499:GLY:CA	1:b:503:ASN:ND2	2.54	0.69
1:d:145:THR:OG1	1:d:514:THR:OG1	2.11	0.69
1:e:499:GLY:CA	1:e:503:ASN:ND2	2.54	0.69
1:h:499:GLY:CA	1:h:503:ASN:ND2	2.54	0.69
1:R:499:GLY:CA	1:R:503:ASN:ND2	2.54	0.68
1:o:499:GLY:CA	1:o:503:ASN:ND2	2.53	0.68
1:p:145:THR:OG1	1:p:514:THR:OG1	2.11	0.68
1:J:499:GLY:CA	1:J:503:ASN:ND2	2.54	0.68
1:g:145:THR:OG1	1:g:514:THR:OG1	2.11	0.68
1:i:145:THR:OG1	1:i:514:THR:OG1	2.11	0.68
1:q:563:CYS:SG	1:q:564:MET:N	2.66	0.68
1:u:563:CYS:SG	1:u:564:MET:N	2.66	0.68
1:x:563:CYS:SG	1:x:564:MET:N	2.66	0.68
1:6:499:GLY:CA	1:6:503:ASN:ND2	2.53	0.68
1:7:145:THR:OG1	1:7:514:THR:OG1	2.11	0.68
1:8:499:GLY:CA	1:8:503:ASN:ND2	2.53	0.68
1:B:499:GLY:CA	1:B:503:ASN:ND2	2.54	0.68
1:S:499:GLY:CA	1:S:503:ASN:ND2	2.53	0.68
1:l:563:CYS:SG	1:l:564:MET:N	2.66	0.68
1:E:563:CYS:SG	1:E:564:MET:N	2.66	0.68
1:G:145:THR:OG1	1:G:514:THR:OG1	2.11	0.68
1:O:145:THR:OG1	1:O:514:THR:OG1	2.11	0.68
1:c:563:CYS:SG	1:c:564:MET:N	2.66	0.68
1:h:78:TYR:OH	1:h:105:GLN:NE2	2.25	0.68
1:k:499:GLY:CA	1:k:503:ASN:ND2	2.54	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:r:145:THR:OG1	1:r:514:THR:OG1	2.11	0.68
1:E:145:THR:OG1	1:E:514:THR:OG1	2.11	0.68
1:G:563:CYS:SG	1:G:564:MET:N	2.66	0.68
1:V:78:TYR:OH	1:V:105:GLN:NE2	2.25	0.68
1:Z:145:THR:OG1	1:Z:514:THR:OG1	2.11	0.68
1:l:145:THR:OG1	1:l:514:THR:OG1	2.11	0.68
1:l:499:GLY:CA	1:l:503:ASN:ND2	2.54	0.68
1:l:563:CYS:SG	1:l:564:MET:N	2.66	0.68
1:y:145:THR:OG1	1:y:514:THR:OG1	2.11	0.68
1:2:145:THR:OG1	1:2:514:THR:OG1	2.11	0.68
1:6:563:CYS:SG	1:6:564:MET:N	2.66	0.68
1:8:563:CYS:SG	1:8:564:MET:N	2.66	0.68
1:C:78:TYR:OH	1:C:105:GLN:NE2	2.25	0.68
1:X:563:CYS:SG	1:X:564:MET:N	2.66	0.68
1:f:145:THR:OG1	1:f:514:THR:OG1	2.11	0.68
1:h:563:CYS:SG	1:h:564:MET:N	2.66	0.68
1:i:563:CYS:SG	1:i:564:MET:N	2.66	0.68
1:k:563:CYS:SG	1:k:564:MET:N	2.66	0.68
1:o:563:CYS:SG	1:o:564:MET:N	2.66	0.68
1:v:145:THR:OG1	1:v:514:THR:OG1	2.11	0.68
1:w:78:TYR:OH	1:w:105:GLN:NE2	2.25	0.68
1:1:145:THR:OG1	1:1:514:THR:OG1	2.11	0.68
1:7:563:CYS:SG	1:7:564:MET:N	2.66	0.68
1:8:145:THR:OG1	1:8:514:THR:OG1	2.11	0.68
1:M:563:CYS:SG	1:M:564:MET:N	2.66	0.68
1:c:145:THR:OG1	1:c:514:THR:OG1	2.11	0.68
1:f:563:CYS:SG	1:f:564:MET:N	2.66	0.68
1:l:78:TYR:OH	1:l:105:GLN:NE2	2.25	0.68
1:t:563:CYS:SG	1:t:564:MET:N	2.66	0.68
1:w:563:CYS:SG	1:w:564:MET:N	2.66	0.68
1:q:145:THR:OG1	1:q:514:THR:OG1	2.11	0.68
1:r:499:GLY:CA	1:r:503:ASN:ND2	2.53	0.68
1:5:499:GLY:CA	1:5:503:ASN:ND2	2.53	0.68
1:8:78:TYR:OH	1:8:105:GLN:NE2	2.25	0.68
1:H:563:CYS:SG	1:H:564:MET:N	2.66	0.68
1:L:563:CYS:SG	1:L:564:MET:N	2.66	0.68
1:T:78:TYR:OH	1:T:105:GLN:NE2	2.25	0.68
1:o:78:TYR:OH	1:o:105:GLN:NE2	2.25	0.68
1:r:563:CYS:SG	1:r:564:MET:N	2.66	0.68
1:t:78:TYR:OH	1:t:105:GLN:NE2	2.25	0.68
1:v:563:CYS:SG	1:v:564:MET:N	2.66	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:108:THR:O	1:A:209:GLN:NE2	2.28	0.68
1:C:108:THR:O	1:C:209:GLN:NE2	2.27	0.68
1:F:108:THR:O	1:F:209:GLN:NE2	2.28	0.68
1:F:563:CYS:SG	1:F:564:MET:N	2.66	0.68
1:K:78:TYR:OH	1:K:105:GLN:NE2	2.25	0.68
1:L:499:GLY:CA	1:L:503:ASN:ND2	2.53	0.68
1:M:393:GLN:NE2	1:b:318:SER:OG	2.27	0.68
1:O:563:CYS:SG	1:O:564:MET:N	2.66	0.68
1:U:563:CYS:SG	1:U:564:MET:N	2.66	0.68
1:X:393:GLN:NE2	1:e:318:SER:OG	2.27	0.68
1:Y:108:THR:O	1:Y:209:GLN:NE2	2.27	0.68
1:j:499:GLY:CA	1:j:503:ASN:ND2	2.53	0.68
1:y:563:CYS:SG	1:y:564:MET:N	2.66	0.68
1:2:499:GLY:CA	1:2:503:ASN:ND2	2.53	0.68
1:2:563:CYS:SG	1:2:564:MET:N	2.66	0.68
1:A:563:CYS:SG	1:A:564:MET:N	2.66	0.67
1:N:108:THR:O	1:N:209:GLN:NE2	2.28	0.67
1:V:108:THR:O	1:V:209:GLN:NE2	2.28	0.67
1:X:145:THR:OG1	1:X:514:THR:OG1	2.11	0.67
1:Z:563:CYS:SG	1:Z:564:MET:N	2.66	0.67
1:b:108:THR:O	1:b:209:GLN:NE2	2.28	0.67
1:p:78:TYR:OH	1:p:105:GLN:NE2	2.25	0.67
1:5:108:THR:O	1:5:209:GLN:NE2	2.28	0.67
1:J:108:THR:O	1:J:209:GLN:NE2	2.28	0.67
1:M:145:THR:OG1	1:M:514:THR:OG1	2.11	0.67
1:P:563:CYS:SG	1:P:564:MET:N	2.66	0.67
1:R:393:GLN:NE2	1:U:318:SER:OG	2.27	0.67
1:U:499:GLY:CA	1:U:503:ASN:ND2	2.54	0.67
1:X:108:THR:O	1:X:209:GLN:NE2	2.28	0.67
1:e:108:THR:O	1:e:209:GLN:NE2	2.28	0.67
1:e:145:THR:OG1	1:e:514:THR:OG1	2.11	0.67
1:f:108:THR:O	1:f:209:GLN:NE2	2.28	0.67
1:h:145:THR:OG1	1:h:514:THR:OG1	2.11	0.67
1:j:108:THR:O	1:j:209:GLN:NE2	2.28	0.67
1:j:563:CYS:SG	1:j:564:MET:N	2.66	0.67
1:o:145:THR:OG1	1:o:514:THR:OG1	2.11	0.67
1:x:145:THR:OG1	1:x:514:THR:OG1	2.11	0.67
1:4:145:THR:OG1	1:4:514:THR:OG1	2.11	0.67
1:B:393:GLN:NE2	1:L:318:SER:OG	2.27	0.67
1:D:318:SER:OG	1:N:393:GLN:NE2	2.28	0.67
1:H:393:GLN:NE2	1:Y:318:SER:OG	2.28	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:145:THR:OG1	1:I:514:THR:OG1	2.11	0.67
1:K:318:SER:OG	1:a:393:GLN:NE2	2.28	0.67
1:M:108:THR:O	1:M:209:GLN:NE2	2.28	0.67
1:N:563:CYS:SG	1:N:564:MET:N	2.66	0.67
1:P:145:THR:OG1	1:P:514:THR:OG1	2.11	0.67
1:S:108:THR:O	1:S:209:GLN:NE2	2.28	0.67
1:S:318:SER:OG	1:U:393:GLN:NE2	2.27	0.67
1:T:318:SER:OG	1:d:393:GLN:NE2	2.28	0.67
1:a:563:CYS:SG	1:a:564:MET:N	2.66	0.67
1:c:108:THR:O	1:c:209:GLN:NE2	2.28	0.67
1:k:145:THR:OG1	1:k:514:THR:OG1	2.11	0.67
1:m:145:THR:OG1	1:m:514:THR:OG1	2.11	0.67
1:t:108:THR:O	1:t:209:GLN:NE2	2.27	0.67
1:u:145:THR:OG1	1:u:514:THR:OG1	2.11	0.67
1:w:108:THR:O	1:w:209:GLN:NE2	2.27	0.67
1:x:108:THR:O	1:x:209:GLN:NE2	2.27	0.67
1:5:563:CYS:SG	1:5:564:MET:N	2.66	0.67
1:6:145:THR:OG1	1:6:514:THR:OG1	2.11	0.67
1:C:145:THR:OG1	1:C:514:THR:OG1	2.11	0.67
1:H:145:THR:OG1	1:H:514:THR:OG1	2.11	0.67
1:J:318:SER:OG	1:L:393:GLN:NE2	2.27	0.67
1:N:318:SER:OG	1:P:393:GLN:NE2	2.28	0.67
1:W:318:SER:OG	1:Y:393:GLN:NE2	2.28	0.67
1:Y:563:CYS:SG	1:Y:564:MET:N	2.66	0.67
1:c:318:SER:OG	1:o:393:GLN:NE2	2.27	0.67
1:d:563:CYS:SG	1:d:564:MET:N	2.66	0.67
1:f:318:SER:OG	1:h:393:GLN:NE2	2.27	0.67
1:g:393:GLN:NE2	1:h:318:SER:OG	2.28	0.67
1:m:108:THR:O	1:m:209:GLN:NE2	2.27	0.67
1:q:318:SER:OG	1:r:393:GLN:NE2	2.27	0.67
1:3:108:THR:O	1:3:209:GLN:NE2	2.28	0.67
1:B:318:SER:OG	1:J:393:GLN:NE2	2.27	0.67
1:D:108:THR:O	1:D:209:GLN:NE2	2.28	0.67
1:V:145:THR:OG1	1:V:514:THR:OG1	2.11	0.67
1:W:108:THR:O	1:W:209:GLN:NE2	2.28	0.67
1:a:318:SER:OG	1:8:393:GLN:NE2	2.27	0.67
1:d:318:SER:OG	1:l:393:GLN:NE2	2.27	0.67
1:k:108:THR:O	1:k:209:GLN:NE2	2.28	0.67
1:n:108:THR:O	1:n:209:GLN:NE2	2.28	0.67
1:u:108:THR:O	1:u:209:GLN:NE2	2.28	0.67
1:z:145:THR:OG1	1:z:514:THR:OG1	2.11	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:108:THR:O	1:G:209:GLN:NE2	2.27	0.67
1:W:145:THR:OG1	1:W:514:THR:OG1	2.11	0.67
1:Z:393:GLN:NE2	1:3:318:SER:OG	2.27	0.67
1:l:108:THR:O	1:l:209:GLN:NE2	2.28	0.67
1:o:318:SER:OG	1:p:393:GLN:NE2	2.28	0.67
1:s:145:THR:OG1	1:s:514:THR:OG1	2.11	0.67
1:u:318:SER:OG	1:v:393:GLN:NE2	2.28	0.67
1:x:318:SER:OG	1:y:393:GLN:NE2	2.28	0.67
1:4:108:THR:O	1:4:209:GLN:NE2	2.27	0.67
1:6:108:THR:O	1:6:209:GLN:NE2	2.28	0.67
1:D:145:THR:OG1	1:D:514:THR:OG1	2.11	0.67
1:D:563:CYS:SG	1:D:564:MET:N	2.66	0.67
1:E:108:THR:O	1:E:209:GLN:NE2	2.27	0.67
1:I:108:THR:O	1:I:209:GLN:NE2	2.27	0.67
1:Q:108:THR:O	1:Q:209:GLN:NE2	2.27	0.67
1:Q:145:THR:OG1	1:Q:514:THR:OG1	2.11	0.67
1:R:318:SER:OG	1:S:393:GLN:NE2	2.27	0.67
1:W:563:CYS:SG	1:W:564:MET:N	2.66	0.67
1:e:563:CYS:SG	1:e:564:MET:N	2.66	0.67
1:i:318:SER:OG	1:j:393:GLN:NE2	2.28	0.67
1:z:318:SER:OG	1:1:393:GLN:NE2	2.27	0.67
1:A:145:THR:OG1	1:A:514:THR:OG1	2.11	0.67
1:F:145:THR:OG1	1:F:514:THR:OG1	2.11	0.67
1:H:108:THR:O	1:H:209:GLN:NE2	2.28	0.67
1:J:145:THR:OG1	1:J:514:THR:OG1	2.11	0.67
1:O:393:GLN:NE2	1:n:318:SER:OG	2.27	0.67
1:P:108:THR:O	1:P:209:GLN:NE2	2.27	0.67
1:S:145:THR:OG1	1:S:514:THR:OG1	2.11	0.67
1:T:108:THR:O	1:T:209:GLN:NE2	2.27	0.67
1:T:145:THR:OG1	1:T:514:THR:OG1	2.11	0.67
1:Y:145:THR:OG1	1:Y:514:THR:OG1	2.12	0.67
1:i:108:THR:O	1:i:209:GLN:NE2	2.28	0.67
1:j:145:THR:OG1	1:j:514:THR:OG1	2.11	0.67
1:n:563:CYS:SG	1:n:564:MET:N	2.66	0.67
1:q:108:THR:O	1:q:209:GLN:NE2	2.27	0.67
1:r:108:THR:O	1:r:209:GLN:NE2	2.28	0.67
1:1:108:THR:O	1:1:209:GLN:NE2	2.28	0.67
1:3:563:CYS:SG	1:3:564:MET:N	2.66	0.67
1:5:393:GLN:NE2	1:7:318:SER:OG	2.28	0.67
1:7:108:THR:O	1:7:209:GLN:NE2	2.27	0.67
1:8:108:THR:O	1:8:209:GLN:NE2	2.28	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:108:THR:O	1:B:209:GLN:NE2	2.28	0.67
1:D:393:GLN:NE2	1:P:318:SER:OG	2.28	0.67
1:K:108:THR:O	1:K:209:GLN:NE2	2.27	0.67
1:K:145:THR:OG1	1:K:514:THR:OG1	2.11	0.67
1:K:393:GLN:NE2	1:8:318:SER:OG	2.28	0.67
1:N:145:THR:OG1	1:N:514:THR:OG1	2.11	0.67
1:R:108:THR:O	1:R:209:GLN:NE2	2.28	0.67
1:b:563:CYS:SG	1:b:564:MET:N	2.66	0.67
1:r:318:SER:OG	1:s:393:GLN:NE2	2.27	0.67
1:t:145:THR:OG1	1:t:514:THR:OG1	2.11	0.67
1:w:145:THR:OG1	1:w:514:THR:OG1	2.11	0.67
1:w:393:GLN:NE2	1:y:318:SER:OG	2.27	0.67
1:H:318:SER:OG	1:W:393:GLN:NE2	2.28	0.67
1:I:563:CYS:SG	1:I:564:MET:N	2.66	0.67
1:L:108:THR:O	1:L:209:GLN:NE2	2.28	0.67
1:T:393:GLN:NE2	1:l:318:SER:OG	2.28	0.67
1:U:108:THR:O	1:U:209:GLN:NE2	2.28	0.67
1:g:108:THR:O	1:g:209:GLN:NE2	2.27	0.67
1:t:393:GLN:NE2	1:v:318:SER:OG	2.27	0.67
1:2:108:THR:O	1:2:209:GLN:NE2	2.28	0.67
1:5:145:THR:OG1	1:5:514:THR:OG1	2.12	0.67
1:C:393:GLN:NE2	1:M:318:SER:OG	2.28	0.66
1:E:318:SER:OG	1:Q:393:GLN:NE2	2.28	0.66
1:G:318:SER:OG	1:I:393:GLN:NE2	2.28	0.66
1:O:318:SER:OG	1:m:393:GLN:NE2	2.28	0.66
1:Q:563:CYS:SG	1:Q:564:MET:N	2.66	0.66
1:V:318:SER:OG	1:e:393:GLN:NE2	2.28	0.66
1:a:108:THR:O	1:a:209:GLN:NE2	2.28	0.66
1:d:108:THR:O	1:d:209:GLN:NE2	2.28	0.66
1:i:393:GLN:NE2	1:k:318:SER:OG	2.28	0.66
1:n:145:THR:OG1	1:n:514:THR:OG1	2.11	0.66
1:p:108:THR:O	1:p:209:GLN:NE2	2.28	0.66
1:v:108:THR:O	1:v:209:GLN:NE2	2.28	0.66
1:y:108:THR:O	1:y:209:GLN:NE2	2.28	0.66
1:C:318:SER:OG	1:b:393:GLN:NE2	2.28	0.66
1:V:393:GLN:NE2	1:X:318:SER:OG	2.28	0.66
1:Z:318:SER:OG	1:4:393:GLN:NE2	2.28	0.66
1:j:318:SER:OG	1:k:393:GLN:NE2	2.28	0.66
1:m:318:SER:OG	1:n:393:GLN:NE2	2.28	0.66
1:m:499:GLY:CA	1:m:503:ASN:ND2	2.54	0.66
1:q:393:GLN:NE2	1:s:318:SER:OG	2.27	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:t:318:SER:OG	1:u:393:GLN:NE2	2.28	0.66
1:w:318:SER:OG	1:x:393:GLN:NE2	2.28	0.66
1:3:145:THR:OG1	1:3:514:THR:OG1	2.11	0.66
1:4:499:GLY:CA	1:4:503:ASN:ND2	2.54	0.66
1:Z:108:THR:O	1:Z:209:GLN:NE2	2.28	0.66
1:s:108:THR:O	1:s:209:GLN:NE2	2.28	0.66
1:5:318:SER:OG	1:6:393:GLN:NE2	2.28	0.66
1:6:318:SER:OG	1:7:393:GLN:NE2	2.28	0.66
1:O:108:THR:O	1:O:209:GLN:NE2	2.28	0.66
1:3:393:GLN:NE2	1:4:318:SER:OG	2.28	0.66
1:F:393:GLN:NE2	1:Q:318:SER:OG	2.28	0.66
1:h:108:THR:O	1:h:209:GLN:NE2	2.27	0.66
1:z:108:THR:O	1:z:209:GLN:NE2	2.28	0.66
1:A:393:GLN:NE2	1:I:318:SER:OG	2.28	0.66
1:K:441:ALA:HB2	1:a:465:PRO:HG3	1.78	0.66
1:K:563:CYS:SG	1:K:564:MET:N	2.66	0.66
1:O:108:THR:HG21	1:O:210:TYR:HD2	1.61	0.66
1:S:108:THR:HG21	1:S:210:TYR:HD2	1.61	0.66
1:T:563:CYS:SG	1:T:564:MET:N	2.66	0.66
1:m:108:THR:HG21	1:m:210:TYR:HD2	1.61	0.66
1:o:108:THR:O	1:o:209:GLN:NE2	2.28	0.66
1:4:108:THR:HG21	1:4:210:TYR:HD2	1.61	0.66
1:A:318:SER:OG	1:G:393:GLN:NE2	2.27	0.66
1:E:108:THR:HG21	1:E:210:TYR:HD2	1.61	0.66
1:G:108:THR:HG21	1:G:210:TYR:HD2	1.61	0.66
1:T:441:ALA:HB2	1:d:465:PRO:HG3	1.78	0.66
1:Z:108:THR:HG21	1:Z:210:TYR:HD2	1.61	0.66
1:J:108:THR:HG21	1:J:210:TYR:HD2	1.61	0.66
1:c:108:THR:HG21	1:c:210:TYR:HD2	1.61	0.66
1:f:108:THR:HG21	1:f:210:TYR:HD2	1.61	0.66
1:1:318:SER:OG	1:2:393:GLN:NE2	2.29	0.66
1:E:393:GLN:NE2	1:F:318:SER:OG	2.27	0.66
1:c:393:GLN:NE2	1:p:318:SER:OG	2.28	0.66
1:J:441:ALA:HB2	1:L:465:PRO:HG3	1.78	0.66
1:K:108:THR:HG21	1:K:210:TYR:HD2	1.61	0.66
1:S:441:ALA:HB2	1:U:465:PRO:HG3	1.78	0.66
1:a:108:THR:HG21	1:a:210:TYR:HD2	1.61	0.66
1:f:393:GLN:NE2	1:g:318:SER:OG	2.28	0.66
1:m:441:ALA:HB2	1:n:465:PRO:HG3	1.78	0.66
1:z:108:THR:HG21	1:z:210:TYR:HD2	1.61	0.66
1:3:465:PRO:HG3	1:4:441:ALA:HB2	1.78	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:465:PRO:HG3	1:I:441:ALA:HB2	1.78	0.65
1:B:563:CYS:SG	1:B:564:MET:N	2.66	0.65
1:E:237:GLU:OE2	1:E:239:ARG:NH1	2.30	0.65
1:G:237:GLU:OE2	1:G:239:ARG:NH1	2.30	0.65
1:N:237:GLU:OE2	1:N:239:ARG:NH1	2.30	0.65
1:T:108:THR:HG21	1:T:210:TYR:HD2	1.61	0.65
1:Y:237:GLU:OE2	1:Y:239:ARG:NH1	2.30	0.65
1:b:237:GLU:OE2	1:b:239:ARG:NH1	2.30	0.65
1:e:237:GLU:OE2	1:e:239:ARG:NH1	2.30	0.65
1:F:465:PRO:HG3	1:Q:441:ALA:HB2	1.78	0.65
1:F:499:GLY:CA	1:F:503:ASN:ND2	2.54	0.65
1:H:237:GLU:OE2	1:H:239:ARG:NH1	2.30	0.65
1:P:237:GLU:OE2	1:P:239:ARG:NH1	2.30	0.65
1:R:108:THR:HG21	1:R:210:TYR:HD2	1.61	0.65
1:d:108:THR:HG21	1:d:210:TYR:HD2	1.61	0.65
1:m:237:GLU:OE2	1:m:239:ARG:NH1	2.30	0.65
1:s:108:THR:HG21	1:s:210:TYR:HD2	1.61	0.65
1:t:465:PRO:HG3	1:v:441:ALA:HB2	1.78	0.65
1:u:237:GLU:OE2	1:u:239:ARG:NH1	2.30	0.65
1:w:465:PRO:HG3	1:y:441:ALA:HB2	1.78	0.65
1:x:237:GLU:OE2	1:x:239:ARG:NH1	2.30	0.65
1:1:499:GLY:CA	1:1:503:ASN:ND2	2.53	0.65
1:2:237:GLU:OE2	1:2:239:ARG:NH1	2.30	0.65
1:4:237:GLU:OE2	1:4:239:ARG:NH1	2.30	0.65
1:C:237:GLU:OE2	1:C:239:ARG:NH1	2.30	0.65
1:P:108:THR:HG21	1:P:210:TYR:HD2	1.61	0.65
1:R:563:CYS:SG	1:R:564:MET:N	2.66	0.65
1:V:237:GLU:OE2	1:V:239:ARG:NH1	2.30	0.65
1:X:465:PRO:HG3	1:e:441:ALA:HB2	1.78	0.65
1:j:237:GLU:OE2	1:j:239:ARG:NH1	2.30	0.65
1:r:237:GLU:OE2	1:r:239:ARG:NH1	2.30	0.65
1:s:237:GLU:OE2	1:s:239:ARG:NH1	2.30	0.65
1:t:108:THR:HG21	1:t:210:TYR:HD2	1.61	0.65
1:z:237:GLU:OE2	1:z:239:ARG:NH1	2.30	0.65
1:B:108:THR:HG21	1:B:210:TYR:HD2	1.61	0.65
1:D:237:GLU:OE2	1:D:239:ARG:NH1	2.30	0.65
1:M:465:PRO:HG3	1:b:441:ALA:HB2	1.78	0.65
1:R:237:GLU:OE2	1:R:239:ARG:NH1	2.30	0.65
1:i:441:ALA:HB2	1:j:465:PRO:HG3	1.79	0.65
1:i:499:GLY:CA	1:i:503:ASN:ND2	2.53	0.65
1:v:237:GLU:OE2	1:v:239:ARG:NH1	2.30	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:w:108:THR:HG21	1:w:210:TYR:HD2	1.61	0.65
1:y:237:GLU:OE2	1:y:239:ARG:NH1	2.30	0.65
1:5:237:GLU:OE2	1:5:239:ARG:NH1	2.30	0.65
1:5:465:PRO:HG3	1:7:441:ALA:HB2	1.79	0.65
1:A:108:THR:HG21	1:A:210:TYR:HD2	1.61	0.65
1:B:237:GLU:OE2	1:B:239:ARG:NH1	2.30	0.65
1:C:465:PRO:HG3	1:M:441:ALA:HB2	1.78	0.65
1:D:499:GLY:CA	1:D:503:ASN:ND2	2.54	0.65
1:H:108:THR:HG21	1:H:210:TYR:HD2	1.61	0.65
1:I:237:GLU:OE2	1:I:239:ARG:NH1	2.30	0.65
1:Q:237:GLU:OE2	1:Q:239:ARG:NH1	2.30	0.65
1:S:563:CYS:SG	1:S:564:MET:N	2.66	0.65
1:V:465:PRO:HG3	1:X:441:ALA:HB2	1.78	0.65
1:W:237:GLU:OE2	1:W:239:ARG:NH1	2.30	0.65
1:f:237:GLU:OE2	1:f:239:ARG:NH1	2.30	0.65
1:h:237:GLU:OE2	1:h:239:ARG:NH1	2.30	0.65
1:l:237:GLU:OE2	1:l:239:ARG:NH1	2.30	0.65
1:t:499:GLY:CA	1:t:503:ASN:ND2	2.54	0.65
1:1:305:ASN:ND2	1:2:101:SER:OG	2.30	0.65
1:3:237:GLU:OE2	1:3:239:ARG:NH1	2.30	0.65
1:8:237:GLU:OE2	1:8:239:ARG:NH1	2.30	0.65
1:C:108:THR:HG21	1:C:210:TYR:HD2	1.61	0.65
1:J:237:GLU:OE2	1:J:239:ARG:NH1	2.30	0.65
1:J:563:CYS:SG	1:J:564:MET:N	2.66	0.65
1:O:237:GLU:OE2	1:O:239:ARG:NH1	2.30	0.65
1:T:237:GLU:OE2	1:T:239:ARG:NH1	2.30	0.65
1:V:441:ALA:HB2	1:e:465:PRO:HG3	1.78	0.65
1:X:237:GLU:OE2	1:X:239:ARG:NH1	2.30	0.65
1:Z:237:GLU:OE2	1:Z:239:ARG:NH1	2.30	0.65
1:k:108:THR:HG21	1:k:210:TYR:HD2	1.61	0.65
1:n:237:GLU:OE2	1:n:239:ARG:NH1	2.30	0.65
1:o:237:GLU:OE2	1:o:239:ARG:NH1	2.30	0.65
1:6:108:THR:HG21	1:6:210:TYR:HD2	1.61	0.65
1:C:441:ALA:HB2	1:b:465:PRO:HG3	1.78	0.65
1:D:108:THR:HG21	1:D:210:TYR:HD2	1.61	0.65
1:F:108:THR:HG21	1:F:210:TYR:HD2	1.61	0.65
1:M:237:GLU:OE2	1:M:239:ARG:NH1	2.30	0.65
1:S:237:GLU:OE2	1:S:239:ARG:NH1	2.30	0.65
1:V:108:THR:HG21	1:V:210:TYR:HD2	1.61	0.65
1:c:237:GLU:OE2	1:c:239:ARG:NH1	2.30	0.65
1:d:237:GLU:OE2	1:d:239:ARG:NH1	2.30	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:h:108:THR:HG21	1:h:210:TYR:HD2	1.61	0.65
1:n:108:THR:HG21	1:n:210:TYR:HD2	1.61	0.65
1:q:108:THR:HG21	1:q:210:TYR:HD2	1.61	0.65
1:t:237:GLU:OE2	1:t:239:ARG:NH1	2.30	0.65
1:1:441:ALA:HB2	1:2:465:PRO:HG3	1.78	0.65
1:K:237:GLU:OE2	1:K:239:ARG:NH1	2.30	0.65
1:L:237:GLU:OE2	1:L:239:ARG:NH1	2.30	0.65
1:U:237:GLU:OE2	1:U:239:ARG:NH1	2.30	0.65
1:W:441:ALA:HB2	1:Y:465:PRO:HG3	1.79	0.65
1:W:499:GLY:CA	1:W:503:ASN:ND2	2.53	0.65
1:a:237:GLU:OE2	1:a:239:ARG:NH1	2.30	0.65
1:k:237:GLU:OE2	1:k:239:ARG:NH1	2.30	0.65
1:l:108:THR:HG21	1:l:210:TYR:HD2	1.61	0.65
1:w:237:GLU:OE2	1:w:239:ARG:NH1	2.30	0.65
1:W:108:THR:HG21	1:W:210:TYR:HD2	1.61	0.65
1:o:108:THR:HG21	1:o:210:TYR:HD2	1.61	0.65
1:s:499:GLY:CA	1:s:503:ASN:ND2	2.54	0.65
1:w:499:GLY:CA	1:w:503:ASN:ND2	2.54	0.65
1:1:108:THR:HG21	1:1:210:TYR:HD2	1.61	0.65
1:3:108:THR:HG21	1:3:210:TYR:HD2	1.61	0.65
1:6:237:GLU:OE2	1:6:239:ARG:NH1	2.30	0.65
1:D:441:ALA:HB2	1:N:465:PRO:HG3	1.79	0.65
1:o:441:ALA:HB2	1:p:465:PRO:HG3	1.78	0.65
1:8:108:THR:HG21	1:8:210:TYR:HD2	1.61	0.65
1:A:237:GLU:OE2	1:A:239:ARG:NH1	2.30	0.64
1:F:237:GLU:OE2	1:F:239:ARG:NH1	2.30	0.64
1:I:108:THR:HG21	1:I:210:TYR:HD2	1.61	0.64
1:Q:108:THR:HG21	1:Q:210:TYR:HD2	1.61	0.64
1:a:441:ALA:HB2	1:8:465:PRO:HG3	1.78	0.64
1:d:441:ALA:HB2	1:l:465:PRO:HG3	1.78	0.64
1:g:108:THR:HG21	1:g:210:TYR:HD2	1.61	0.64
1:g:465:PRO:HG3	1:h:441:ALA:HB2	1.78	0.64
1:i:108:THR:HG21	1:i:210:TYR:HD2	1.61	0.64
1:K:465:PRO:HG3	1:8:441:ALA:HB2	1.78	0.64
1:T:465:PRO:HG3	1:l:441:ALA:HB2	1.78	0.64
1:p:108:THR:HG21	1:p:210:TYR:HD2	1.61	0.64
1:q:441:ALA:HB2	1:r:465:PRO:HG3	1.78	0.64
1:u:108:THR:HG21	1:u:210:TYR:HD2	1.61	0.64
1:2:108:THR:HG21	1:2:210:TYR:HD2	1.61	0.64
1:v:108:THR:HG21	1:v:210:TYR:HD2	1.61	0.64
1:y:108:THR:HG21	1:y:210:TYR:HD2	1.61	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:7:108:THR:HG21	1:7:210:TYR:HD2	1.61	0.64
1:7:237:GLU:OE2	1:7:239:ARG:NH1	2.30	0.64
1:N:108:THR:HG21	1:N:210:TYR:HD2	1.61	0.64
1:i:237:GLU:OE2	1:i:239:ARG:NH1	2.30	0.64
1:E:441:ALA:HB2	1:Q:465:PRO:HG3	1.78	0.64
1:Y:108:THR:HG21	1:Y:210:TYR:HD2	1.61	0.64
1:q:237:GLU:OE2	1:q:239:ARG:NH1	2.30	0.64
1:r:108:THR:HG21	1:r:210:TYR:HD2	1.61	0.64
1:x:108:THR:HG21	1:x:210:TYR:HD2	1.61	0.64
1:1:237:GLU:OE2	1:1:239:ARG:NH1	2.30	0.64
1:5:108:THR:HG21	1:5:210:TYR:HD2	1.61	0.64
1:E:465:PRO:HG3	1:F:441:ALA:HB2	1.78	0.64
1:j:108:THR:HG21	1:j:210:TYR:HD2	1.61	0.64
1:p:237:GLU:OE2	1:p:239:ARG:NH1	2.30	0.64
1:z:393:GLN:NE2	1:2:318:SER:OG	2.30	0.64
1:2:37:HIS:HE1	1:3:34:GLY:HA2	1.63	0.64
1:g:237:GLU:OE2	1:g:239:ARG:NH1	2.30	0.64
1:q:465:PRO:HG3	1:s:441:ALA:HB2	1.78	0.64
1:z:101:SER:OG	1:2:305:ASN:ND2	2.31	0.64
1:A:441:ALA:HB2	1:G:465:PRO:HG3	1.78	0.64
1:G:441:ALA:HB2	1:I:465:PRO:HG3	1.78	0.64
1:O:441:ALA:HB2	1:m:465:PRO:HG3	1.78	0.64
1:c:441:ALA:HB2	1:o:465:PRO:HG3	1.78	0.64
1:z:441:ALA:HB2	1:1:465:PRO:HG3	1.79	0.64
1:B:465:PRO:HG3	1:L:441:ALA:HB2	1.78	0.64
1:O:465:PRO:HG3	1:n:441:ALA:HB2	1.78	0.64
1:Z:441:ALA:HB2	1:4:465:PRO:HG3	1.78	0.64
1:Z:465:PRO:HG3	1:3:441:ALA:HB2	1.78	0.64
1:f:465:PRO:HG3	1:g:441:ALA:HB2	1.78	0.64
1:R:465:PRO:HG3	1:U:441:ALA:HB2	1.78	0.64
1:U:108:THR:HG21	1:U:210:TYR:HD2	1.61	0.64
1:b:108:THR:HG21	1:b:210:TYR:HD2	1.61	0.64
1:c:465:PRO:HG3	1:p:441:ALA:HB2	1.78	0.64
1:e:108:THR:HG21	1:e:210:TYR:HD2	1.61	0.64
1:f:441:ALA:HB2	1:h:465:PRO:HG3	1.78	0.64
1:r:441:ALA:HB2	1:s:465:PRO:HG3	1.78	0.64
1:t:441:ALA:HB2	1:u:465:PRO:HG3	1.78	0.64
1:u:441:ALA:HB2	1:v:465:PRO:HG3	1.78	0.64
1:H:465:PRO:HG3	1:Y:441:ALA:HB2	1.79	0.63
1:L:108:THR:HG21	1:L:210:TYR:HD2	1.61	0.63
1:R:441:ALA:HB2	1:S:465:PRO:HG3	1.79	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:441:ALA:HB2	1:J:465:PRO:HG3	1.79	0.63
1:K:340:ARG:NH2	1:8:431:ASP:OD2	2.32	0.63
1:N:441:ALA:HB2	1:P:465:PRO:HG3	1.79	0.63
1:c:431:ASP:OD2	1:o:340:ARG:NH2	2.32	0.63
1:f:431:ASP:OD2	1:h:340:ARG:NH2	2.32	0.63
1:w:441:ALA:HB2	1:x:465:PRO:HG3	1.78	0.63
1:x:441:ALA:HB2	1:y:465:PRO:HG3	1.78	0.63
1:T:340:ARG:NH2	1:l:431:ASP:OD2	2.32	0.63
1:X:108:THR:HG21	1:X:210:TYR:HD2	1.61	0.63
1:t:431:ASP:OD2	1:u:340:ARG:NH2	2.32	0.63
1:5:441:ALA:HB2	1:6:465:PRO:HG3	1.79	0.63
1:D:465:PRO:HG3	1:P:441:ALA:HB2	1.79	0.63
1:w:431:ASP:OD2	1:x:340:ARG:NH2	2.32	0.63
1:H:441:ALA:HB2	1:W:465:PRO:HG3	1.79	0.63
1:p:115:PRO:HG3	1:p:144:GLN:HE21	1.64	0.63
1:5:431:ASP:OD2	1:6:340:ARG:NH2	2.32	0.63
1:J:115:PRO:HG3	1:J:144:GLN:HE21	1.64	0.63
1:M:108:THR:HG21	1:M:210:TYR:HD2	1.61	0.63
1:S:115:PRO:HG3	1:S:144:GLN:HE21	1.64	0.63
1:j:431:ASP:OD2	1:k:340:ARG:NH2	2.32	0.63
1:j:441:ALA:HB2	1:k:465:PRO:HG3	1.79	0.63
1:q:115:PRO:HG3	1:q:144:GLN:HE21	1.64	0.63
1:t:115:PRO:HG3	1:t:144:GLN:HE21	1.64	0.63
1:w:115:PRO:HG3	1:w:144:GLN:HE21	1.64	0.63
1:l:115:PRO:HG3	1:l:144:GLN:HE21	1.64	0.63
1:L:115:PRO:HG3	1:L:144:GLN:HE21	1.64	0.63
1:N:115:PRO:HG3	1:N:144:GLN:HE21	1.64	0.63
1:T:101:SER:OG	1:l:305:ASN:ND2	2.32	0.63
1:U:115:PRO:HG3	1:U:144:GLN:HE21	1.64	0.63
1:V:115:PRO:HG3	1:V:144:GLN:HE21	1.64	0.63
1:Y:115:PRO:HG3	1:Y:144:GLN:HE21	1.64	0.63
1:g:115:PRO:HG3	1:g:144:GLN:HE21	1.64	0.63
1:k:115:PRO:HG3	1:k:144:GLN:HE21	1.64	0.63
1:5:115:PRO:HG3	1:5:144:GLN:HE21	1.64	0.63
1:6:115:PRO:HG3	1:6:144:GLN:HE21	1.64	0.63
1:C:115:PRO:HG3	1:C:144:GLN:HE21	1.64	0.63
1:K:101:SER:OG	1:8:305:ASN:ND2	2.32	0.63
1:V:305:ASN:ND2	1:e:101:SER:OG	2.32	0.63
1:a:305:ASN:ND2	1:8:101:SER:OG	2.32	0.63
1:j:115:PRO:HG3	1:j:144:GLN:HE21	1.64	0.63
1:t:101:SER:OG	1:v:305:ASN:ND2	2.32	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:w:101:SER:OG	1:y:305:ASN:ND2	2.32	0.63
1:C:305:ASN:ND2	1:b:101:SER:OG	2.32	0.63
1:d:305:ASN:ND2	1:l:101:SER:OG	2.32	0.63
1:m:115:PRO:HG3	1:m:144:GLN:HE21	1.64	0.63
1:r:305:ASN:ND2	1:s:101:SER:OG	2.32	0.63
1:s:115:PRO:HG3	1:s:144:GLN:HE21	1.64	0.63
1:u:431:ASP:OD2	1:v:340:ARG:NH2	2.32	0.63
1:w:340:ARG:NH2	1:y:431:ASP:OD2	2.32	0.63
1:A:115:PRO:HG3	1:A:144:GLN:HE21	1.64	0.62
1:E:305:ASN:ND2	1:Q:101:SER:OG	2.32	0.62
1:E:340:ARG:NH2	1:F:431:ASP:OD2	2.32	0.62
1:M:340:ARG:NH2	1:b:431:ASP:OD2	2.32	0.62
1:P:115:PRO:HG3	1:P:144:GLN:HE21	1.64	0.62
1:X:340:ARG:NH2	1:e:431:ASP:OD2	2.32	0.62
1:b:115:PRO:HG3	1:b:144:GLN:HE21	1.64	0.62
1:i:431:ASP:OD2	1:j:340:ARG:NH2	2.32	0.62
1:t:340:ARG:NH2	1:v:431:ASP:OD2	2.32	0.62
1:x:431:ASP:OD2	1:y:340:ARG:NH2	2.32	0.62
1:z:115:PRO:HG3	1:z:144:GLN:HE21	1.64	0.62
1:4:115:PRO:HG3	1:4:144:GLN:HE21	1.64	0.62
1:5:340:ARG:NH2	1:7:431:ASP:OD2	2.32	0.62
1:6:305:ASN:ND2	1:7:101:SER:OG	2.33	0.62
1:A:101:SER:OG	1:I:305:ASN:ND2	2.32	0.62
1:E:431:ASP:OD2	1:Q:340:ARG:NH2	2.32	0.62
1:G:305:ASN:ND2	1:I:101:SER:OG	2.32	0.62
1:G:431:ASP:OD2	1:I:340:ARG:NH2	2.32	0.62
1:i:101:SER:OG	1:k:305:ASN:ND2	2.33	0.62
1:i:465:PRO:HG3	1:k:441:ALA:HB2	1.79	0.62
1:l:115:PRO:HG3	1:l:144:GLN:HE21	1.64	0.62
1:q:305:ASN:ND2	1:r:101:SER:OG	2.32	0.62
1:8:115:PRO:HG3	1:8:144:GLN:HE21	1.64	0.62
1:A:431:ASP:OD2	1:G:340:ARG:NH2	2.32	0.62
1:B:431:ASP:OD2	1:J:340:ARG:NH2	2.32	0.62
1:F:101:SER:OG	1:Q:305:ASN:ND2	2.32	0.62
1:F:115:PRO:HG3	1:F:144:GLN:HE21	1.64	0.62
1:H:115:PRO:HG3	1:H:144:GLN:HE21	1.64	0.62
1:O:340:ARG:NH2	1:n:431:ASP:OD2	2.32	0.62
1:Z:340:ARG:NH2	1:3:431:ASP:OD2	2.32	0.62
1:e:115:PRO:HG3	1:e:144:GLN:HE21	1.64	0.62
1:t:305:ASN:ND2	1:u:101:SER:OG	2.32	0.62
1:A:305:ASN:ND2	1:G:101:SER:OG	2.32	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:R:431:ASP:OD2	1:S:340:ARG:NH2	2.32	0.62
1:a:431:ASP:OD2	1:8:340:ARG:NH2	2.32	0.62
1:g:101:SER:OG	1:h:305:ASN:ND2	2.32	0.62
1:i:340:ARG:NH2	1:k:431:ASP:OD2	2.32	0.62
1:m:431:ASP:OD2	1:n:340:ARG:NH2	2.32	0.62
1:n:115:PRO:HG3	1:n:144:GLN:HE21	1.64	0.62
1:o:305:ASN:ND2	1:p:101:SER:OG	2.32	0.62
1:w:305:ASN:ND2	1:x:101:SER:OG	2.32	0.62
1:z:465:PRO:HG3	1:2:441:ALA:HB2	1.80	0.62
1:3:340:ARG:NH2	1:4:431:ASP:OD2	2.32	0.62
1:6:431:ASP:OD2	1:7:340:ARG:NH2	2.32	0.62
1:B:305:ASN:ND2	1:J:101:SER:OG	2.32	0.62
1:E:101:SER:OG	1:F:305:ASN:ND2	2.32	0.62
1:J:431:ASP:OD2	1:L:340:ARG:NH2	2.32	0.62
1:N:305:ASN:ND2	1:P:101:SER:OG	2.33	0.62
1:T:431:ASP:OD2	1:d:340:ARG:NH2	2.32	0.62
1:a:115:PRO:HG3	1:a:144:GLN:HE21	1.64	0.62
1:c:101:SER:OG	1:p:305:ASN:ND2	2.32	0.62
1:d:431:ASP:OD2	1:l:340:ARG:NH2	2.32	0.62
1:o:115:PRO:HG3	1:o:144:GLN:HE21	1.64	0.62
1:u:305:ASN:ND2	1:v:101:SER:OG	2.32	0.62
1:3:115:PRO:HG3	1:3:144:GLN:HE21	1.64	0.62
1:6:441:ALA:HB2	1:7:465:PRO:HG3	1.79	0.62
1:H:101:SER:OG	1:Y:305:ASN:ND2	2.33	0.62
1:S:431:ASP:OD2	1:U:340:ARG:NH2	2.32	0.62
1:c:305:ASN:ND2	1:o:101:SER:OG	2.32	0.62
1:c:340:ARG:NH2	1:p:431:ASP:OD2	2.32	0.62
1:f:101:SER:OG	1:g:305:ASN:ND2	2.32	0.62
1:o:431:ASP:OD2	1:p:340:ARG:NH2	2.32	0.62
1:z:340:ARG:NH2	1:2:431:ASP:OD2	2.32	0.62
1:B:340:ARG:NH2	1:L:431:ASP:OD2	2.32	0.62
1:E:115:PRO:HG3	1:E:144:GLN:HE21	1.64	0.62
1:G:115:PRO:HG3	1:G:144:GLN:HE21	1.64	0.62
1:K:401:ILE:HD11	1:K:562:ARG:HD2	1.82	0.62
1:K:431:ASP:OD2	1:a:340:ARG:NH2	2.32	0.62
1:R:340:ARG:NH2	1:U:431:ASP:OD2	2.32	0.62
1:T:401:ILE:HD11	1:T:562:ARG:HD2	1.82	0.62
1:X:101:SER:OG	1:e:305:ASN:ND2	2.32	0.62
1:a:401:ILE:HD11	1:a:562:ARG:HD2	1.82	0.62
1:d:115:PRO:HG3	1:d:144:GLN:HE21	1.64	0.62
1:d:401:ILE:HD11	1:d:562:ARG:HD2	1.82	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:f:305:ASN:ND2	1:h:101:SER:OG	2.32	0.62
1:f:340:ARG:NH2	1:g:431:ASP:OD2	2.32	0.62
1:g:340:ARG:NH2	1:h:431:ASP:OD2	2.32	0.62
1:h:115:PRO:HG3	1:h:144:GLN:HE21	1.64	0.62
1:i:152:LYS:NZ	1:i:169:ASN:OD1	2.29	0.62
1:l:401:ILE:HD11	1:l:562:ARG:HD2	1.82	0.62
1:q:101:SER:OG	1:s:305:ASN:ND2	2.32	0.62
1:x:305:ASN:ND2	1:y:101:SER:OG	2.32	0.62
1:8:401:ILE:HD11	1:8:562:ARG:HD2	1.82	0.62
1:A:340:ARG:NH2	1:I:431:ASP:OD2	2.32	0.62
1:B:101:SER:OG	1:L:305:ASN:ND2	2.32	0.62
1:C:340:ARG:NH2	1:M:431:ASP:OD2	2.32	0.62
1:H:340:ARG:NH2	1:Y:431:ASP:OD2	2.32	0.62
1:K:115:PRO:HG3	1:K:144:GLN:HE21	1.64	0.62
1:N:431:ASP:OD2	1:P:340:ARG:NH2	2.32	0.62
1:O:305:ASN:ND2	1:m:101:SER:OG	2.32	0.62
1:R:305:ASN:ND2	1:S:101:SER:OG	2.32	0.62
1:W:305:ASN:ND2	1:Y:101:SER:OG	2.33	0.62
1:f:34:GLY:HA2	1:z:37:HIS:HE1	1.65	0.62
1:q:340:ARG:NH2	1:s:431:ASP:OD2	2.32	0.62
1:D:305:ASN:ND2	1:N:101:SER:OG	2.33	0.62
1:F:340:ARG:NH2	1:Q:431:ASP:OD2	2.32	0.62
1:H:305:ASN:ND2	1:W:101:SER:OG	2.33	0.62
1:J:305:ASN:ND2	1:L:101:SER:OG	2.32	0.62
1:K:305:ASN:ND2	1:a:101:SER:OG	2.32	0.62
1:M:101:SER:OG	1:b:305:ASN:ND2	2.32	0.62
1:O:115:PRO:HG3	1:O:144:GLN:HE21	1.64	0.62
1:T:115:PRO:HG3	1:T:144:GLN:HE21	1.64	0.62
1:T:305:ASN:ND2	1:d:101:SER:OG	2.32	0.62
1:V:340:ARG:NH2	1:X:431:ASP:OD2	2.32	0.62
1:X:115:PRO:HG3	1:X:144:GLN:HE21	1.64	0.62
1:Z:101:SER:OG	1:3:305:ASN:ND2	2.32	0.62
1:Z:305:ASN:ND2	1:4:101:SER:OG	2.32	0.62
1:i:115:PRO:HG3	1:i:144:GLN:HE21	1.64	0.62
1:r:431:ASP:OD2	1:s:340:ARG:NH2	2.32	0.62
1:y:115:PRO:HG3	1:y:144:GLN:HE21	1.64	0.62
1:D:101:SER:OG	1:P:305:ASN:ND2	2.32	0.62
1:I:115:PRO:HG3	1:I:144:GLN:HE21	1.64	0.62
1:Q:115:PRO:HG3	1:Q:144:GLN:HE21	1.64	0.62
1:S:305:ASN:ND2	1:U:101:SER:OG	2.32	0.62
1:Z:431:ASP:OD2	1:4:340:ARG:NH2	2.32	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:c:34:GLY:HA2	1:s:37:HIS:HE1	1.65	0.62
1:c:499:GLY:CA	1:c:503:ASN:HD21	2.09	0.62
1:q:431:ASP:OD2	1:r:340:ARG:NH2	2.32	0.62
1:7:115:PRO:HG3	1:7:144:GLN:HE21	1.64	0.62
1:D:115:PRO:HG3	1:D:144:GLN:HE21	1.64	0.61
1:M:115:PRO:HG3	1:M:144:GLN:HE21	1.64	0.61
1:O:431:ASP:OD2	1:m:340:ARG:NH2	2.32	0.61
1:R:101:SER:OG	1:U:305:ASN:ND2	2.32	0.61
1:Z:115:PRO:HG3	1:Z:144:GLN:HE21	1.64	0.61
1:v:115:PRO:HG3	1:v:144:GLN:HE21	1.64	0.61
1:z:305:ASN:ND2	1:1:101:SER:OG	2.33	0.61
1:z:431:ASP:OD2	1:1:340:ARG:NH2	2.32	0.61
1:O:101:SER:OG	1:n:305:ASN:ND2	2.32	0.61
1:W:115:PRO:HG3	1:W:144:GLN:HE21	1.64	0.61
1:W:431:ASP:OD2	1:Y:340:ARG:NH2	2.32	0.61
1:i:305:ASN:ND2	1:j:101:SER:OG	2.33	0.61
1:m:305:ASN:ND2	1:n:101:SER:OG	2.32	0.61
1:u:115:PRO:HG3	1:u:144:GLN:HE21	1.64	0.61
1:3:101:SER:OG	1:4:305:ASN:ND2	2.32	0.61
1:5:101:SER:OG	1:7:305:ASN:ND2	2.33	0.61
1:C:101:SER:OG	1:M:305:ASN:ND2	2.32	0.61
1:C:401:ILE:HD11	1:C:562:ARG:HD2	1.82	0.61
1:D:340:ARG:NH2	1:P:431:ASP:OD2	2.32	0.61
1:D:431:ASP:OD2	1:N:340:ARG:NH2	2.32	0.61
1:V:101:SER:OG	1:X:305:ASN:ND2	2.32	0.61
1:j:37:HIS:HE1	1:x:34:GLY:HA2	1.65	0.61
1:r:115:PRO:HG3	1:r:144:GLN:HE21	1.64	0.61
1:1:431:ASP:OD2	1:2:340:ARG:NH2	2.31	0.61
1:Q:69:MET:HG2	1:Q:70:SER:H	1.66	0.61
1:V:401:ILE:HD11	1:V:562:ARG:HD2	1.82	0.61
1:c:401:ILE:HD11	1:c:562:ARG:HD2	1.82	0.61
1:f:401:ILE:HD11	1:f:562:ARG:HD2	1.82	0.61
1:g:37:HIS:HE1	1:1:34:GLY:HA2	1.66	0.61
1:g:401:ILE:HD11	1:g:562:ARG:HD2	1.82	0.61
1:i:501:GLY:C	1:i:503:ASN:N	2.58	0.61
1:u:34:GLY:HA2	1:5:37:HIS:HE1	1.65	0.61
1:x:115:PRO:HG3	1:x:144:GLN:HE21	1.64	0.61
1:7:501:GLY:C	1:7:503:ASN:N	2.58	0.61
1:A:37:HIS:HE1	1:E:34:GLY:HA2	1.66	0.61
1:B:499:GLY:CA	1:B:503:ASN:HD21	2.10	0.61
1:H:69:MET:HG2	1:H:70:SER:H	1.66	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:431:ASP:OD2	1:W:340:ARG:NH2	2.32	0.61
1:I:69:MET:HG2	1:I:70:SER:H	1.66	0.61
1:M:401:ILE:HD11	1:M:562:ARG:HD2	1.82	0.61
1:N:69:MET:HG2	1:N:70:SER:H	1.66	0.61
1:b:401:ILE:HD11	1:b:562:ARG:HD2	1.82	0.61
1:p:401:ILE:HD11	1:p:562:ARG:HD2	1.82	0.61
1:q:69:MET:HG2	1:q:70:SER:H	1.66	0.61
1:1:69:MET:HG2	1:1:70:SER:H	1.66	0.61
1:2:69:MET:HG2	1:2:70:SER:H	1.66	0.61
1:2:115:PRO:HG3	1:2:144:GLN:HE21	1.64	0.61
1:5:69:MET:HG2	1:5:70:SER:H	1.66	0.61
1:J:401:ILE:HD11	1:J:562:ARG:HD2	1.82	0.61
1:J:501:GLY:C	1:J:503:ASN:N	2.58	0.61
1:O:140:GLU:HG3	1:O:520:LYS:HG2	1.83	0.61
1:P:69:MET:HG2	1:P:70:SER:H	1.66	0.61
1:S:401:ILE:HD11	1:S:562:ARG:HD2	1.82	0.61
1:a:140:GLU:HG3	1:a:520:LYS:HG2	1.83	0.61
1:d:140:GLU:HG3	1:d:520:LYS:HG2	1.83	0.61
1:e:401:ILE:HD11	1:e:562:ARG:HD2	1.82	0.61
1:h:401:ILE:HD11	1:h:562:ARG:HD2	1.82	0.61
1:j:69:MET:HG2	1:j:70:SER:H	1.66	0.61
1:k:401:ILE:HD11	1:k:562:ARG:HD2	1.82	0.61
1:m:69:MET:HG2	1:m:70:SER:H	1.66	0.61
1:o:401:ILE:HD11	1:o:562:ARG:HD2	1.82	0.61
1:p:37:HIS:HE1	1:q:34:GLY:HA2	1.66	0.61
1:r:69:MET:HG2	1:r:70:SER:H	1.66	0.61
1:z:501:GLY:C	1:z:503:ASN:N	2.58	0.61
1:C:67:LEU:HD13	1:C:207:LEU:HD12	1.83	0.61
1:F:34:GLY:HA2	1:R:37:HIS:HE1	1.66	0.61
1:J:140:GLU:HG3	1:J:520:LYS:HG2	1.83	0.61
1:K:37:HIS:HE1	1:L:34:GLY:HA2	1.66	0.61
1:K:140:GLU:HG3	1:K:520:LYS:HG2	1.83	0.61
1:M:69:MET:HG2	1:M:70:SER:H	1.66	0.61
1:P:67:LEU:HD13	1:P:207:LEU:HD12	1.83	0.61
1:S:67:LEU:HD13	1:S:207:LEU:HD12	1.83	0.61
1:T:140:GLU:HG3	1:T:520:LYS:HG2	1.83	0.61
1:V:67:LEU:HD13	1:V:207:LEU:HD12	1.83	0.61
1:X:401:ILE:HD11	1:X:562:ARG:HD2	1.82	0.61
1:Y:69:MET:HG2	1:Y:70:SER:H	1.66	0.61
1:Z:140:GLU:HG3	1:Z:520:LYS:HG2	1.83	0.61
1:b:69:MET:HG2	1:b:70:SER:H	1.66	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:j:34:GLY:HA2	1:l:37:HIS:HE1	1.66	0.61
1:j:305:ASN:ND2	1:k:101:SER:OG	2.33	0.61
1:k:69:MET:HG2	1:k:70:SER:H	1.66	0.61
1:m:140:GLU:HG3	1:m:520:LYS:HG2	1.83	0.61
1:n:34:GLY:HA2	1:r:37:HIS:HE1	1.66	0.61
1:s:501:GLY:C	1:s:503:ASN:N	2.58	0.61
1:4:69:MET:HG2	1:4:70:SER:H	1.66	0.61
1:4:140:GLU:HG3	1:4:520:LYS:HG2	1.83	0.61
1:5:34:GLY:HA2	1:8:37:HIS:HE1	1.66	0.61
1:5:305:ASN:ND2	1:6:101:SER:OG	2.32	0.61
1:6:69:MET:HG2	1:6:70:SER:H	1.66	0.61
1:B:401:ILE:HD11	1:B:562:ARG:HD2	1.82	0.61
1:H:67:LEU:HD13	1:H:207:LEU:HD12	1.83	0.61
1:I:140:GLU:HG3	1:I:520:LYS:HG2	1.83	0.61
1:J:67:LEU:HD13	1:J:207:LEU:HD12	1.83	0.61
1:K:34:GLY:HA2	1:7:37:HIS:HE1	1.66	0.61
1:L:401:ILE:HD11	1:L:562:ARG:HD2	1.82	0.61
1:S:37:HIS:HE1	1:d:34:GLY:HA2	1.66	0.61
1:S:140:GLU:HG3	1:S:520:LYS:HG2	1.83	0.61
1:S:501:GLY:C	1:S:503:ASN:N	2.58	0.61
1:T:37:HIS:HE1	1:U:34:GLY:HA2	1.66	0.61
1:c:115:PRO:HG3	1:c:144:GLN:HE21	1.64	0.61
1:e:69:MET:HG2	1:e:70:SER:H	1.66	0.61
1:i:401:ILE:HD11	1:i:562:ARG:HD2	1.82	0.61
1:j:401:ILE:HD11	1:j:562:ARG:HD2	1.82	0.61
1:r:67:LEU:HD13	1:r:207:LEU:HD12	1.83	0.61
1:t:67:LEU:HD13	1:t:207:LEU:HD12	1.83	0.61
1:t:140:GLU:HG3	1:t:520:LYS:HG2	1.83	0.61
1:w:67:LEU:HD13	1:w:207:LEU:HD12	1.83	0.61
1:w:140:GLU:HG3	1:w:520:LYS:HG2	1.83	0.61
1:z:99:ASN:OD1	1:2:317:ARG:NH2	2.32	0.61
1:6:401:ILE:HD11	1:6:562:ARG:HD2	1.82	0.61
1:8:313:GLN:OE1	1:8:325:THR:OG1	2.17	0.61
1:A:34:GLY:HA2	1:B:37:HIS:HE1	1.66	0.61
1:F:37:HIS:HE1	1:G:34:GLY:HA2	1.66	0.61
1:H:140:GLU:HG3	1:H:520:LYS:HG2	1.83	0.61
1:I:499:GLY:CA	1:I:503:ASN:HD21	2.09	0.61
1:J:37:HIS:HE1	1:a:34:GLY:HA2	1.66	0.61
1:L:37:HIS:HE1	1:b:34:GLY:HA2	1.65	0.61
1:Q:140:GLU:HG3	1:Q:520:LYS:HG2	1.83	0.61
1:R:401:ILE:HD11	1:R:562:ARG:HD2	1.82	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:S:69:MET:HG2	1:S:70:SER:H	1.66	0.61
1:U:140:GLU:HG3	1:U:520:LYS:HG2	1.83	0.61
1:X:69:MET:HG2	1:X:70:SER:H	1.66	0.61
1:b:67:LEU:HD13	1:b:207:LEU:HD12	1.83	0.61
1:i:99:ASN:OD1	1:k:317:ARG:NH2	2.33	0.61
1:j:140:GLU:HG3	1:j:520:LYS:HG2	1.83	0.61
1:k:34:GLY:HA2	1:w:37:HIS:HE1	1.66	0.61
1:l:313:GLN:OE1	1:l:325:THR:OG1	2.17	0.61
1:o:317:ARG:NH2	1:p:99:ASN:OD1	2.33	0.61
1:t:317:ARG:NH2	1:u:99:ASN:OD1	2.33	0.61
1:5:140:GLU:HG3	1:5:520:LYS:HG2	1.83	0.61
1:5:401:ILE:HD11	1:5:562:ARG:HD2	1.82	0.61
1:6:317:ARG:NH2	1:7:99:ASN:OD1	2.33	0.61
1:8:140:GLU:HG3	1:8:520:LYS:HG2	1.83	0.61
1:C:99:ASN:OD1	1:M:317:ARG:NH2	2.33	0.61
1:L:140:GLU:HG3	1:L:520:LYS:HG2	1.83	0.61
1:P:37:HIS:HE1	1:Q:34:GLY:HA2	1.65	0.61
1:P:501:GLY:C	1:P:503:ASN:N	2.58	0.61
1:Q:499:GLY:CA	1:Q:503:ASN:HD21	2.10	0.61
1:T:34:GLY:HA2	1:i:37:HIS:HE1	1.66	0.61
1:U:401:ILE:HD11	1:U:562:ARG:HD2	1.82	0.61
1:Z:34:GLY:HA2	1:a:37:HIS:HE1	1.66	0.61
1:Z:69:MET:HG2	1:Z:70:SER:H	1.66	0.61
1:e:67:LEU:HD13	1:e:207:LEU:HD12	1.83	0.61
1:f:115:PRO:HG3	1:f:144:GLN:HE21	1.64	0.61
1:i:69:MET:HG2	1:i:70:SER:H	1.66	0.61
1:l:140:GLU:HG3	1:l:520:LYS:HG2	1.83	0.61
1:r:140:GLU:HG3	1:r:520:LYS:HG2	1.83	0.61
1:t:37:HIS:HE1	1:6:34:GLY:HA2	1.66	0.61
1:u:501:GLY:C	1:u:503:ASN:N	2.58	0.61
1:x:501:GLY:C	1:x:503:ASN:N	2.58	0.61
1:1:317:ARG:NH2	1:2:99:ASN:OD1	2.33	0.61
1:2:67:LEU:HD13	1:2:207:LEU:HD12	1.83	0.61
1:2:313:GLN:OE1	1:2:325:THR:OG1	2.17	0.61
1:7:401:ILE:HD11	1:7:562:ARG:HD2	1.82	0.61
1:C:431:ASP:OD2	1:b:340:ARG:NH2	2.32	0.60
1:J:69:MET:HG2	1:J:70:SER:H	1.66	0.60
1:L:69:MET:HG2	1:L:70:SER:H	1.66	0.60
1:M:34:GLY:HA2	1:c:37:HIS:HE1	1.66	0.60
1:O:34:GLY:HA2	1:d:37:HIS:HE1	1.66	0.60
1:O:37:HIS:HE1	1:P:34:GLY:HA2	1.66	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:O:69:MET:HG2	1:O:70:SER:H	1.66	0.60
1:O:401:ILE:HD11	1:O:562:ARG:HD2	1.82	0.60
1:U:37:HIS:HE1	1:e:34:GLY:HA2	1.65	0.60
1:U:69:MET:HG2	1:U:70:SER:H	1.66	0.60
1:V:99:ASN:OD1	1:X:317:ARG:NH2	2.33	0.60
1:X:34:GLY:HA2	1:f:37:HIS:HE1	1.66	0.60
1:Z:401:ILE:HD11	1:Z:562:ARG:HD2	1.82	0.60
1:g:99:ASN:OD1	1:h:317:ARG:NH2	2.33	0.60
1:p:140:GLU:HG3	1:p:520:LYS:HG2	1.83	0.60
1:r:313:GLN:OE1	1:r:325:THR:OG1	2.17	0.60
1:t:34:GLY:HA2	1:y:37:HIS:HE1	1.66	0.60
1:v:37:HIS:HE1	1:w:34:GLY:HA2	1.66	0.60
1:w:317:ARG:NH2	1:x:99:ASN:OD1	2.33	0.60
1:2:140:GLU:HG3	1:2:520:LYS:HG2	1.83	0.60
1:H:501:GLY:C	1:H:503:ASN:N	2.58	0.60
1:O:499:GLY:CA	1:O:503:ASN:HD21	2.09	0.60
1:P:140:GLU:HG3	1:P:520:LYS:HG2	1.83	0.60
1:b:140:GLU:HG3	1:b:520:LYS:HG2	1.83	0.60
1:e:140:GLU:HG3	1:e:520:LYS:HG2	1.83	0.60
1:k:140:GLU:HG3	1:k:520:LYS:HG2	1.83	0.60
1:l:69:MET:HG2	1:l:70:SER:H	1.66	0.60
1:t:69:MET:HG2	1:t:70:SER:H	1.66	0.60
1:v:140:GLU:HG3	1:v:520:LYS:HG2	1.83	0.60
1:w:69:MET:HG2	1:w:70:SER:H	1.66	0.60
1:y:140:GLU:HG3	1:y:520:LYS:HG2	1.83	0.60
1:3:69:MET:HG2	1:3:70:SER:H	1.66	0.60
1:3:99:ASN:OD1	1:4:317:ARG:NH2	2.33	0.60
1:6:140:GLU:HG3	1:6:520:LYS:HG2	1.83	0.60
1:7:69:MET:HG2	1:7:70:SER:H	1.66	0.60
1:8:69:MET:HG2	1:8:70:SER:H	1.66	0.60
1:D:99:ASN:OD1	1:P:317:ARG:NH2	2.33	0.60
1:F:99:ASN:OD1	1:Q:317:ARG:NH2	2.33	0.60
1:G:401:ILE:HD11	1:G:562:ARG:HD2	1.82	0.60
1:H:34:GLY:HA2	1:Z:37:HIS:HE1	1.66	0.60
1:I:401:ILE:HD11	1:I:562:ARG:HD2	1.82	0.60
1:N:37:HIS:HE1	1:m:34:GLY:HA2	1.66	0.60
1:R:115:PRO:HG3	1:R:144:GLN:HE21	1.64	0.60
1:T:69:MET:HG2	1:T:70:SER:H	1.66	0.60
1:V:431:ASP:OD2	1:e:340:ARG:NH2	2.32	0.60
1:Y:37:HIS:HE1	1:4:34:GLY:HA2	1.66	0.60
1:g:140:GLU:HG3	1:g:520:LYS:HG2	1.83	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:l:34:GLY:HA2	1:n:37:HIS:HE1	1.66	0.60
1:n:69:MET:HG2	1:n:70:SER:H	1.66	0.60
1:u:69:MET:HG2	1:u:70:SER:H	1.66	0.60
1:y:401:ILE:HD11	1:y:562:ARG:HD2	1.82	0.60
1:1:140:GLU:HG3	1:1:520:LYS:HG2	1.83	0.60
1:3:313:GLN:OE1	1:3:325:THR:OG1	2.17	0.60
1:G:317:ARG:NH2	1:I:99:ASN:OD1	2.33	0.60
1:H:37:HIS:HE1	1:I:34:GLY:HA2	1.65	0.60
1:K:69:MET:HG2	1:K:70:SER:H	1.66	0.60
1:K:99:ASN:OD1	1:8:317:ARG:NH2	2.33	0.60
1:Q:401:ILE:HD11	1:Q:562:ARG:HD2	1.82	0.60
1:W:69:MET:HG2	1:W:70:SER:H	1.66	0.60
1:X:313:GLN:OE1	1:X:325:THR:OG1	2.17	0.60
1:c:99:ASN:OD1	1:p:317:ARG:NH2	2.33	0.60
1:c:317:ARG:NH2	1:o:99:ASN:OD1	2.34	0.60
1:i:317:ARG:NH2	1:j:99:ASN:OD1	2.33	0.60
1:m:317:ARG:NH2	1:n:99:ASN:OD1	2.33	0.60
1:m:401:ILE:HD11	1:m:562:ARG:HD2	1.82	0.60
1:n:401:ILE:HD11	1:n:562:ARG:HD2	1.82	0.60
1:q:140:GLU:HG3	1:q:520:LYS:HG2	1.83	0.60
1:v:401:ILE:HD11	1:v:562:ARG:HD2	1.82	0.60
1:w:401:ILE:HD11	1:w:562:ARG:HD2	1.82	0.60
1:x:69:MET:HG2	1:x:70:SER:H	1.66	0.60
1:1:67:LEU:HD13	1:1:207:LEU:HD12	1.83	0.60
1:3:401:ILE:HD11	1:3:562:ARG:HD2	1.82	0.60
1:4:401:ILE:HD11	1:4:562:ARG:HD2	1.82	0.60
1:B:115:PRO:HG3	1:B:144:GLN:HE21	1.64	0.60
1:D:69:MET:HG2	1:D:70:SER:H	1.66	0.60
1:E:317:ARG:NH2	1:Q:99:ASN:OD1	2.33	0.60
1:E:401:ILE:HD11	1:E:562:ARG:HD2	1.82	0.60
1:H:317:ARG:NH2	1:W:99:ASN:OD1	2.33	0.60
1:J:317:ARG:NH2	1:L:99:ASN:OD1	2.34	0.60
1:M:140:GLU:HG3	1:M:520:LYS:HG2	1.83	0.60
1:T:99:ASN:OD1	1:l:317:ARG:NH2	2.33	0.60
1:V:140:GLU:HG3	1:V:520:LYS:HG2	1.83	0.60
1:X:37:HIS:HE1	1:Y:34:GLY:HA2	1.66	0.60
1:f:99:ASN:OD1	1:g:317:ARG:NH2	2.33	0.60
1:g:313:GLN:OE1	1:g:325:THR:OG1	2.17	0.60
1:m:37:HIS:HE1	1:s:34:GLY:HA2	1.66	0.60
1:q:67:LEU:HD13	1:q:207:LEU:HD12	1.83	0.60
1:t:401:ILE:HD11	1:t:562:ARG:HD2	1.82	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:x:67:LEU:HD13	1:x:207:LEU:HD12	1.83	0.60
1:5:99:ASN:OD1	1:7:317:ARG:NH2	2.33	0.60
1:A:401:ILE:HD11	1:A:562:ARG:HD2	1.82	0.60
1:B:34:GLY:HA2	1:C:37:HIS:HE1	1.66	0.60
1:C:140:GLU:HG3	1:C:520:LYS:HG2	1.83	0.60
1:K:501:GLY:C	1:K:503:ASN:N	2.58	0.60
1:R:34:GLY:HA2	1:V:37:HIS:HE1	1.66	0.60
1:T:501:GLY:C	1:T:503:ASN:N	2.58	0.60
1:X:140:GLU:HG3	1:X:520:LYS:HG2	1.83	0.60
1:Z:499:GLY:CA	1:Z:503:ASN:HD21	2.09	0.60
1:f:317:ARG:NH2	1:h:99:ASN:OD1	2.34	0.60
1:k:67:LEU:HD13	1:k:207:LEU:HD12	1.83	0.60
1:n:313:GLN:OE1	1:n:325:THR:OG1	2.17	0.60
1:x:401:ILE:HD11	1:x:562:ARG:HD2	1.82	0.60
1:3:140:GLU:HG3	1:3:520:LYS:HG2	1.83	0.60
1:6:67:LEU:HD13	1:6:207:LEU:HD12	1.83	0.60
1:A:69:MET:HG2	1:A:70:SER:H	1.66	0.60
1:A:99:ASN:OD1	1:I:317:ARG:NH2	2.33	0.60
1:C:69:MET:HG2	1:C:70:SER:H	1.66	0.60
1:F:401:ILE:HD11	1:F:562:ARG:HD2	1.82	0.60
1:G:69:MET:HG2	1:G:70:SER:H	1.66	0.60
1:M:67:LEU:HD13	1:M:207:LEU:HD12	1.83	0.60
1:p:313:GLN:OE1	1:p:325:THR:OG1	2.17	0.60
1:q:317:ARG:NH2	1:r:99:ASN:OD1	2.34	0.60
1:s:67:LEU:HD13	1:s:207:LEU:HD12	1.83	0.60
1:u:317:ARG:NH2	1:v:99:ASN:OD1	2.33	0.60
1:z:34:GLY:HA2	1:4:37:HIS:HE1	1.66	0.60
1:z:67:LEU:HD13	1:z:207:LEU:HD12	1.83	0.60
1:1:401:ILE:HD11	1:1:562:ARG:HD2	1.82	0.60
1:3:37:HIS:HE1	1:8:34:GLY:HA2	1.66	0.60
1:H:99:ASN:OD1	1:Y:317:ARG:NH2	2.33	0.60
1:M:313:GLN:OE1	1:M:325:THR:OG1	2.17	0.60
1:N:317:ARG:NH2	1:P:99:ASN:OD1	2.33	0.60
1:P:401:ILE:HD11	1:P:562:ARG:HD2	1.82	0.60
1:X:67:LEU:HD13	1:X:207:LEU:HD12	1.83	0.60
1:u:67:LEU:HD13	1:u:207:LEU:HD12	1.83	0.60
1:u:401:ILE:HD11	1:u:562:ARG:HD2	1.82	0.60
1:z:401:ILE:HD11	1:z:562:ARG:HD2	1.82	0.60
1:E:69:MET:HG2	1:E:70:SER:H	1.66	0.60
1:F:69:MET:HG2	1:F:70:SER:H	1.66	0.60
1:M:37:HIS:HE1	1:N:34:GLY:HA2	1.66	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:401:ILE:HD11	1:N:562:ARG:HD2	1.82	0.60
1:R:69:MET:HG2	1:R:70:SER:H	1.66	0.60
1:V:69:MET:HG2	1:V:70:SER:H	1.66	0.60
1:Y:140:GLU:HG3	1:Y:520:LYS:HG2	1.83	0.60
1:a:67:LEU:HD13	1:a:207:LEU:HD12	1.83	0.60
1:c:67:LEU:HD13	1:c:207:LEU:HD12	1.83	0.60
1:d:67:LEU:HD13	1:d:207:LEU:HD12	1.83	0.60
1:j:501:GLY:C	1:j:503:ASN:N	2.58	0.60
1:n:140:GLU:HG3	1:n:520:LYS:HG2	1.83	0.60
1:q:401:ILE:HD11	1:q:562:ARG:HD2	1.82	0.60
1:s:401:ILE:HD11	1:s:562:ARG:HD2	1.82	0.60
1:v:69:MET:HG2	1:v:70:SER:H	1.66	0.60
1:x:317:ARG:NH2	1:y:99:ASN:OD1	2.33	0.60
1:5:501:GLY:C	1:5:503:ASN:N	2.58	0.60
1:7:140:GLU:HG3	1:7:520:LYS:HG2	1.83	0.60
1:B:69:MET:HG2	1:B:70:SER:H	1.66	0.60
1:D:501:GLY:C	1:D:503:ASN:N	2.58	0.60
1:H:401:ILE:HD11	1:H:562:ARG:HD2	1.82	0.60
1:K:317:ARG:NH2	1:a:99:ASN:OD1	2.33	0.60
1:M:99:ASN:OD1	1:b:317:ARG:NH2	2.34	0.60
1:N:67:LEU:HD13	1:N:207:LEU:HD12	1.83	0.60
1:W:501:GLY:C	1:W:503:ASN:N	2.58	0.60
1:Y:313:GLN:OE1	1:Y:325:THR:OG1	2.17	0.60
1:Y:401:ILE:HD11	1:Y:562:ARG:HD2	1.82	0.60
1:r:317:ARG:NH2	1:s:99:ASN:OD1	2.34	0.60
1:z:140:GLU:HG3	1:z:520:LYS:HG2	1.83	0.60
1:z:317:ARG:NH2	1:1:99:ASN:OD1	2.34	0.60
1:2:401:ILE:HD11	1:2:562:ARG:HD2	1.82	0.60
1:C:34:GLY:HA2	1:D:37:HIS:HE1	1.66	0.59
1:D:401:ILE:HD11	1:D:562:ARG:HD2	1.82	0.59
1:G:499:GLY:CA	1:G:503:ASN:HD21	2.10	0.59
1:N:140:GLU:HG3	1:N:520:LYS:HG2	1.83	0.59
1:O:67:LEU:HD13	1:O:207:LEU:HD12	1.83	0.59
1:O:317:ARG:NH2	1:m:99:ASN:OD1	2.33	0.59
1:V:34:GLY:HA2	1:W:37:HIS:HE1	1.66	0.59
1:X:99:ASN:OD1	1:e:317:ARG:NH2	2.34	0.59
1:c:69:MET:HG2	1:c:70:SER:H	1.66	0.59
1:d:69:MET:HG2	1:d:70:SER:H	1.66	0.59
1:g:69:MET:HG2	1:g:70:SER:H	1.66	0.59
1:i:140:GLU:HG3	1:i:520:LYS:HG2	1.83	0.59
1:m:67:LEU:HD13	1:m:207:LEU:HD12	1.83	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:r:34:GLY:HA2	1:x:37:HIS:HE1	1.66	0.59
1:y:69:MET:HG2	1:y:70:SER:H	1.66	0.59
1:4:67:LEU:HD13	1:4:207:LEU:HD12	1.83	0.59
1:A:67:LEU:HD13	1:A:207:LEU:HD12	1.83	0.59
1:E:499:GLY:CA	1:E:503:ASN:HD21	2.10	0.59
1:I:37:HIS:HE1	1:J:34:GLY:HA2	1.66	0.59
1:L:67:LEU:HD13	1:L:207:LEU:HD12	1.83	0.59
1:N:234:VAL:HG12	1:N:235:LYS:HG3	1.84	0.59
1:T:317:ARG:NH2	1:d:99:ASN:OD1	2.33	0.59
1:V:317:ARG:NH2	1:e:99:ASN:OD1	2.33	0.59
1:W:401:ILE:HD11	1:W:562:ARG:HD2	1.82	0.59
1:Y:67:LEU:HD13	1:Y:207:LEU:HD12	1.83	0.59
1:Y:234:VAL:HG12	1:Y:235:LYS:HG3	1.84	0.59
1:Z:67:LEU:HD13	1:Z:207:LEU:HD12	1.83	0.59
1:Z:317:ARG:NH2	1:4:99:ASN:OD1	2.33	0.59
1:a:69:MET:HG2	1:a:70:SER:H	1.66	0.59
1:f:67:LEU:HD13	1:f:207:LEU:HD12	1.83	0.59
1:g:67:LEU:HD13	1:g:207:LEU:HD12	1.83	0.59
1:h:69:MET:HG2	1:h:70:SER:H	1.66	0.59
1:p:67:LEU:HD13	1:p:207:LEU:HD12	1.83	0.59
1:s:140:GLU:HG3	1:s:520:LYS:HG2	1.83	0.59
1:6:234:VAL:HG12	1:6:235:LYS:HG3	1.85	0.59
1:B:234:VAL:HG12	1:B:235:LYS:HG3	1.84	0.59
1:C:317:ARG:NH2	1:b:99:ASN:OD1	2.33	0.59
1:E:67:LEU:HD13	1:E:207:LEU:HD12	1.83	0.59
1:E:501:GLY:C	1:E:503:ASN:N	2.58	0.59
1:G:37:HIS:HE1	1:W:34:GLY:HA2	1.66	0.59
1:G:501:GLY:C	1:G:503:ASN:N	2.58	0.59
1:N:313:GLN:OE1	1:N:325:THR:OG1	2.17	0.59
1:Q:37:HIS:HE1	1:S:34:GLY:HA2	1.66	0.59
1:U:67:LEU:HD13	1:U:207:LEU:HD12	1.83	0.59
1:X:501:GLY:C	1:X:503:ASN:N	2.58	0.59
1:a:501:GLY:C	1:a:503:ASN:N	2.58	0.59
1:b:501:GLY:C	1:b:503:ASN:N	2.58	0.59
1:e:501:GLY:C	1:e:503:ASN:N	2.58	0.59
1:f:69:MET:HG2	1:f:70:SER:H	1.66	0.59
1:i:67:LEU:HD13	1:i:207:LEU:HD12	1.83	0.59
1:j:67:LEU:HD13	1:j:207:LEU:HD12	1.83	0.59
1:k:234:VAL:HG12	1:k:235:LYS:HG3	1.84	0.59
1:k:501:GLY:C	1:k:503:ASN:N	2.58	0.59
1:q:99:ASN:OD1	1:s:317:ARG:NH2	2.34	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:r:401:ILE:HD11	1:r:562:ARG:HD2	1.82	0.59
1:t:99:ASN:OD1	1:v:317:ARG:NH2	2.34	0.59
1:w:99:ASN:OD1	1:y:317:ARG:NH2	2.34	0.59
1:6:501:GLY:C	1:6:503:ASN:N	2.58	0.59
1:D:34:GLY:HA2	1:E:37:HIS:HE1	1.66	0.59
1:D:140:GLU:HG3	1:D:520:LYS:HG2	1.83	0.59
1:F:67:LEU:HD13	1:F:207:LEU:HD12	1.83	0.59
1:J:499:GLY:CA	1:J:503:ASN:HD21	2.10	0.59
1:M:501:GLY:C	1:M:503:ASN:N	2.58	0.59
1:a:317:ARG:NH2	1:8:99:ASN:OD1	2.34	0.59
1:c:140:GLU:HG3	1:c:520:LYS:HG2	1.83	0.59
1:d:317:ARG:NH2	1:l:99:ASN:OD1	2.34	0.59
1:o:67:LEU:HD13	1:o:207:LEU:HD12	1.83	0.59
1:p:69:MET:HG2	1:p:70:SER:H	1.66	0.59
1:3:67:LEU:HD13	1:3:207:LEU:HD12	1.83	0.59
1:5:67:LEU:HD13	1:5:207:LEU:HD12	1.83	0.59
1:7:67:LEU:HD13	1:7:207:LEU:HD12	1.83	0.59
1:A:140:GLU:HG3	1:A:520:LYS:HG2	1.83	0.59
1:G:67:LEU:HD13	1:G:207:LEU:HD12	1.83	0.59
1:R:234:VAL:HG12	1:R:235:LYS:HG3	1.85	0.59
1:R:317:ARG:NH2	1:S:99:ASN:OD1	2.34	0.59
1:W:140:GLU:HG3	1:W:520:LYS:HG2	1.83	0.59
1:X:499:GLY:CA	1:X:503:ASN:HD21	2.09	0.59
1:f:140:GLU:HG3	1:f:520:LYS:HG2	1.83	0.59
1:h:67:LEU:HD13	1:h:207:LEU:HD12	1.83	0.59
1:h:501:GLY:C	1:h:503:ASN:N	2.58	0.59
1:n:67:LEU:HD13	1:n:207:LEU:HD12	1.83	0.59
1:n:234:VAL:HG12	1:n:235:LYS:HG3	1.84	0.59
1:o:69:MET:HG2	1:o:70:SER:H	1.66	0.59
1:p:34:GLY:HA2	1:6:37:HIS:HE1	1.66	0.59
1:q:234:VAL:HG12	1:q:235:LYS:HG3	1.84	0.59
1:s:69:MET:HG2	1:s:70:SER:H	1.66	0.59
1:t:234:VAL:HG12	1:t:235:LYS:HG3	1.84	0.59
1:z:69:MET:HG2	1:z:70:SER:H	1.66	0.59
1:1:234:VAL:HG12	1:1:235:LYS:HG3	1.84	0.59
1:E:99:ASN:OD1	1:F:317:ARG:NH2	2.34	0.59
1:R:99:ASN:OD1	1:U:317:ARG:NH2	2.34	0.59
1:S:317:ARG:NH2	1:U:99:ASN:OD1	2.34	0.59
1:Z:99:ASN:OD1	1:3:317:ARG:NH2	2.34	0.59
1:c:501:GLY:C	1:c:503:ASN:N	2.58	0.59
1:h:499:GLY:CA	1:h:503:ASN:HD21	2.10	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:j:317:ARG:NH2	1:k:99:ASN:OD1	2.33	0.59
1:o:37:HIS:HE1	1:7:34:GLY:HA2	1.66	0.59
1:q:501:GLY:C	1:q:503:ASN:N	2.58	0.59
1:s:313:GLN:OE1	1:s:325:THR:OG1	2.17	0.59
1:x:140:GLU:HG3	1:x:520:LYS:HG2	1.83	0.59
1:A:317:ARG:NH2	1:G:99:ASN:OD1	2.34	0.59
1:B:99:ASN:OD1	1:L:317:ARG:NH2	2.34	0.59
1:B:317:ARG:NH2	1:J:99:ASN:OD1	2.34	0.59
1:F:140:GLU:HG3	1:F:520:LYS:HG2	1.83	0.59
1:G:140:GLU:HG3	1:G:520:LYS:HG2	1.83	0.59
1:I:313:GLN:OE1	1:I:325:THR:OG1	2.17	0.59
1:J:313:GLN:OE1	1:J:325:THR:OG1	2.17	0.59
1:M:152:LYS:NZ	1:M:169:ASN:OD1	2.29	0.59
1:N:396:GLN:OE1	1:N:448:GLN:NE2	2.36	0.59
1:S:313:GLN:OE1	1:S:325:THR:OG1	2.17	0.59
1:S:499:GLY:CA	1:S:503:ASN:HD21	2.09	0.59
1:Y:396:GLN:OE1	1:Y:448:GLN:NE2	2.36	0.59
1:d:501:GLY:C	1:d:503:ASN:N	2.58	0.59
1:f:501:GLY:C	1:f:503:ASN:N	2.58	0.59
1:g:34:GLY:HA2	1:k:37:HIS:HE1	1.66	0.59
1:n:396:GLN:OE1	1:n:448:GLN:NE2	2.36	0.59
1:u:396:GLN:OE1	1:u:448:GLN:NE2	2.36	0.59
1:w:234:VAL:HG12	1:w:235:LYS:HG3	1.84	0.59
1:x:396:GLN:OE1	1:x:448:GLN:NE2	2.36	0.59
1:3:234:VAL:HG12	1:3:235:LYS:HG3	1.85	0.59
1:3:396:GLN:OE1	1:3:448:GLN:NE2	2.36	0.59
1:7:234:VAL:HG12	1:7:235:LYS:HG3	1.84	0.59
1:B:501:GLY:C	1:B:503:ASN:N	2.58	0.59
1:E:140:GLU:HG3	1:E:520:LYS:HG2	1.83	0.59
1:M:499:GLY:CA	1:M:503:ASN:HD21	2.09	0.59
1:e:234:VAL:HG12	1:e:235:LYS:HG3	1.84	0.59
1:h:37:HIS:HE1	1:i:34:GLY:HA2	1.66	0.59
1:i:234:VAL:HG12	1:i:235:LYS:HG3	1.84	0.59
1:j:234:VAL:HG12	1:j:235:LYS:HG3	1.84	0.59
1:l:396:GLN:OE1	1:l:448:GLN:NE2	2.36	0.59
1:o:499:GLY:CA	1:o:503:ASN:HD21	2.09	0.59
1:q:396:GLN:OE1	1:q:448:GLN:NE2	2.36	0.59
1:u:140:GLU:HG3	1:u:520:LYS:HG2	1.83	0.59
1:u:234:VAL:HG12	1:u:235:LYS:HG3	1.84	0.59
1:u:542:GLU:HG2	1:u:544:LYS:H	1.68	0.59
1:x:542:GLU:HG2	1:x:544:LYS:H	1.68	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:y:67:LEU:HD13	1:y:207:LEU:HD12	1.83	0.59
1:z:313:GLN:OE1	1:z:325:THR:OG1	2.17	0.59
1:1:396:GLN:OE1	1:1:448:GLN:NE2	2.36	0.59
1:1:542:GLU:HG2	1:1:544:LYS:H	1.68	0.59
1:2:396:GLN:OE1	1:2:448:GLN:NE2	2.36	0.59
1:5:317:ARG:NH2	1:6:99:ASN:OD1	2.33	0.59
1:8:396:GLN:OE1	1:8:448:GLN:NE2	2.36	0.59
1:A:180:ASP:OD1	1:A:482:GLN:HB3	2.03	0.59
1:D:317:ARG:NH2	1:N:99:ASN:OD1	2.33	0.59
1:F:180:ASP:OD1	1:F:482:GLN:HB3	2.03	0.59
1:H:396:GLN:OE1	1:H:448:GLN:NE2	2.36	0.59
1:I:234:VAL:HG12	1:I:235:LYS:HG3	1.84	0.59
1:M:396:GLN:OE1	1:M:448:GLN:NE2	2.36	0.59
1:O:99:ASN:OD1	1:n:317:ARG:NH2	2.34	0.59
1:Q:67:LEU:HD13	1:Q:207:LEU:HD12	1.83	0.59
1:Q:313:GLN:OE1	1:Q:325:THR:OG1	2.17	0.59
1:S:542:GLU:HG2	1:S:544:LYS:H	1.68	0.59
1:T:180:ASP:OD1	1:T:482:GLN:HB3	2.03	0.59
1:X:396:GLN:OE1	1:X:448:GLN:NE2	2.36	0.59
1:g:542:GLU:HG2	1:g:544:LYS:H	1.68	0.59
1:h:140:GLU:HG3	1:h:520:LYS:HG2	1.83	0.59
1:p:542:GLU:HG2	1:p:544:LYS:H	1.68	0.59
1:r:396:GLN:OE1	1:r:448:GLN:NE2	2.36	0.59
1:s:396:GLN:OE1	1:s:448:GLN:NE2	2.36	0.59
1:v:542:GLU:HG2	1:v:544:LYS:H	1.68	0.59
1:x:234:VAL:HG12	1:x:235:LYS:HG3	1.84	0.59
1:y:501:GLY:C	1:y:503:ASN:N	2.58	0.59
1:5:234:VAL:HG12	1:5:235:LYS:HG3	1.84	0.59
1:C:180:ASP:OD1	1:C:482:GLN:HB3	2.03	0.59
1:D:396:GLN:OE1	1:D:448:GLN:NE2	2.36	0.59
1:E:180:ASP:OD1	1:E:482:GLN:HB3	2.03	0.59
1:G:180:ASP:OD1	1:G:482:GLN:HB3	2.03	0.59
1:I:67:LEU:HD13	1:I:207:LEU:HD12	1.83	0.59
1:I:542:GLU:HG2	1:I:544:LYS:H	1.68	0.59
1:K:180:ASP:OD1	1:K:482:GLN:HB3	2.03	0.59
1:O:234:VAL:HG12	1:O:235:LYS:HG3	1.84	0.59
1:O:396:GLN:OE1	1:O:448:GLN:NE2	2.36	0.59
1:P:396:GLN:OE1	1:P:448:GLN:NE2	2.36	0.59
1:Q:234:VAL:HG12	1:Q:235:LYS:HG3	1.84	0.59
1:Q:542:GLU:HG2	1:Q:544:LYS:H	1.68	0.59
1:R:67:LEU:HD13	1:R:207:LEU:HD12	1.83	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:S:180:ASP:OD1	1:S:482:GLN:HB3	2.03	0.59
1:V:180:ASP:OD1	1:V:482:GLN:HB3	2.03	0.59
1:V:396:GLN:OE1	1:V:448:GLN:NE2	2.36	0.59
1:W:396:GLN:OE1	1:W:448:GLN:NE2	2.36	0.59
1:Z:396:GLN:OE1	1:Z:448:GLN:NE2	2.36	0.59
1:b:234:VAL:HG12	1:b:235:LYS:HG3	1.84	0.59
1:b:542:GLU:HG2	1:b:544:LYS:H	1.68	0.59
1:c:180:ASP:OD1	1:c:482:GLN:HB3	2.03	0.59
1:c:291:HIS:CE1	1:c:309:ILE:HD13	2.38	0.59
1:c:542:GLU:HG2	1:c:544:LYS:H	1.68	0.59
1:e:542:GLU:HG2	1:e:544:LYS:H	1.68	0.59
1:f:180:ASP:OD1	1:f:482:GLN:HB3	2.03	0.59
1:f:291:HIS:CE1	1:f:309:ILE:HD13	2.38	0.59
1:g:291:HIS:CE1	1:g:309:ILE:HD13	2.38	0.59
1:h:542:GLU:HG2	1:h:544:LYS:H	1.68	0.59
1:p:180:ASP:OD1	1:p:482:GLN:HB3	2.03	0.59
1:p:291:HIS:CE1	1:p:309:ILE:HD13	2.38	0.59
1:q:542:GLU:HG2	1:q:544:LYS:H	1.68	0.59
1:t:180:ASP:OD1	1:t:482:GLN:HB3	2.03	0.59
1:v:67:LEU:HD13	1:v:207:LEU:HD12	1.83	0.59
1:y:542:GLU:HG2	1:y:544:LYS:H	1.68	0.59
1:5:396:GLN:OE1	1:5:448:GLN:NE2	2.36	0.59
1:B:291:HIS:CE1	1:B:309:ILE:HD13	2.38	0.58
1:B:396:GLN:OE1	1:B:448:GLN:NE2	2.36	0.58
1:C:396:GLN:OE1	1:C:448:GLN:NE2	2.36	0.58
1:D:291:HIS:CE1	1:D:309:ILE:HD13	2.38	0.58
1:H:291:HIS:CE1	1:H:309:ILE:HD13	2.39	0.58
1:J:180:ASP:OD1	1:J:482:GLN:HB3	2.03	0.58
1:O:180:ASP:OD1	1:O:482:GLN:HB3	2.03	0.58
1:R:291:HIS:CE1	1:R:309:ILE:HD13	2.38	0.58
1:R:396:GLN:OE1	1:R:448:GLN:NE2	2.36	0.58
1:R:501:GLY:C	1:R:503:ASN:N	2.58	0.58
1:S:234:VAL:HG12	1:S:235:LYS:HG3	1.84	0.58
1:Z:180:ASP:OD1	1:Z:482:GLN:HB3	2.03	0.58
1:Z:234:VAL:HG12	1:Z:235:LYS:HG3	1.84	0.58
1:f:542:GLU:HG2	1:f:544:LYS:H	1.68	0.58
1:g:180:ASP:OD1	1:g:482:GLN:HB3	2.03	0.58
1:h:291:HIS:CE1	1:h:309:ILE:HD13	2.38	0.58
1:j:396:GLN:OE1	1:j:448:GLN:NE2	2.36	0.58
1:k:542:GLU:HG2	1:k:544:LYS:H	1.68	0.58
1:l:180:ASP:OD1	1:l:482:GLN:HB3	2.03	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:l:542:GLU:HG2	1:l:544:LYS:H	1.68	0.58
1:m:180:ASP:OD1	1:m:482:GLN:HB3	2.03	0.58
1:o:542:GLU:HG2	1:o:544:LYS:H	1.68	0.58
1:t:291:HIS:CE1	1:t:309:ILE:HD13	2.38	0.58
1:v:34:GLY:HA2	1:l:37:HIS:HE1	1.66	0.58
1:v:501:GLY:C	1:v:503:ASN:N	2.58	0.58
1:w:180:ASP:OD1	1:w:482:GLN:HB3	2.03	0.58
1:w:291:HIS:CE1	1:w:309:ILE:HD13	2.38	0.58
1:w:499:GLY:CA	1:w:503:ASN:HD21	2.10	0.58
1:x:180:ASP:OD1	1:x:482:GLN:HB3	2.03	0.58
1:z:396:GLN:OE1	1:z:448:GLN:NE2	2.36	0.58
1:6:542:GLU:HG2	1:6:544:LYS:H	1.68	0.58
1:B:140:GLU:HG3	1:B:520:LYS:HG2	1.83	0.58
1:H:180:ASP:OD1	1:H:482:GLN:HB3	2.03	0.58
1:I:180:ASP:OD1	1:I:482:GLN:HB3	2.03	0.58
1:J:234:VAL:HG12	1:J:235:LYS:HG3	1.85	0.58
1:J:542:GLU:HG2	1:J:544:LYS:H	1.68	0.58
1:P:180:ASP:OD1	1:P:482:GLN:HB3	2.03	0.58
1:P:291:HIS:CE1	1:P:309:ILE:HD13	2.39	0.58
1:Q:180:ASP:OD1	1:Q:482:GLN:HB3	2.03	0.58
1:T:67:LEU:HD13	1:T:207:LEU:HD12	1.83	0.58
1:U:542:GLU:HG2	1:U:544:LYS:H	1.68	0.58
1:W:317:ARG:NH2	1:Y:99:ASN:OD1	2.33	0.58
1:c:396:GLN:OE1	1:c:448:GLN:NE2	2.36	0.58
1:i:396:GLN:OE1	1:i:448:GLN:NE2	2.36	0.58
1:m:234:VAL:HG12	1:m:235:LYS:HG3	1.84	0.58
1:o:140:GLU:HG3	1:o:520:LYS:HG2	1.83	0.58
1:s:542:GLU:HG2	1:s:544:LYS:H	1.68	0.58
1:u:180:ASP:OD1	1:u:482:GLN:HB3	2.03	0.58
1:y:291:HIS:CE1	1:y:309:ILE:HD13	2.38	0.58
1:z:542:GLU:HG2	1:z:544:LYS:H	1.68	0.58
1:1:501:GLY:C	1:1:503:ASN:N	2.58	0.58
1:4:180:ASP:OD1	1:4:482:GLN:HB3	2.03	0.58
1:4:396:GLN:OE1	1:4:448:GLN:NE2	2.36	0.58
1:5:542:GLU:HG2	1:5:544:LYS:H	1.68	0.58
1:8:180:ASP:OD1	1:8:482:GLN:HB3	2.03	0.58
1:A:381:TYR:HD2	1:E:497:THR:OG1	1.87	0.58
1:F:234:VAL:HG12	1:F:235:LYS:HG3	1.84	0.58
1:I:291:HIS:CE1	1:I:309:ILE:HD13	2.38	0.58
1:L:291:HIS:CE1	1:L:309:ILE:HD13	2.38	0.58
1:L:542:GLU:HG2	1:L:544:LYS:H	1.68	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:291:HIS:CE1	1:N:309:ILE:HD13	2.38	0.58
1:O:542:GLU:HG2	1:O:544:LYS:H	1.68	0.58
1:Q:291:HIS:CE1	1:Q:309:ILE:HD13	2.38	0.58
1:R:140:GLU:HG3	1:R:520:LYS:HG2	1.83	0.58
1:R:542:GLU:HG2	1:R:544:LYS:H	1.68	0.58
1:W:67:LEU:HD13	1:W:207:LEU:HD12	1.83	0.58
1:W:291:HIS:CE1	1:W:309:ILE:HD13	2.39	0.58
1:Y:499:GLY:CA	1:Y:503:ASN:HD21	2.09	0.58
1:Z:542:GLU:HG2	1:Z:544:LYS:H	1.68	0.58
1:f:234:VAL:HG12	1:f:235:LYS:HG3	1.84	0.58
1:f:396:GLN:OE1	1:f:448:GLN:NE2	2.36	0.58
1:j:542:GLU:HG2	1:j:544:LYS:H	1.68	0.58
1:o:291:HIS:CE1	1:o:309:ILE:HD13	2.39	0.58
1:v:291:HIS:CE1	1:v:309:ILE:HD13	2.38	0.58
1:w:396:GLN:OE1	1:w:448:GLN:NE2	2.36	0.58
1:7:396:GLN:OE1	1:7:448:GLN:NE2	2.36	0.58
1:8:542:GLU:HG2	1:8:544:LYS:H	1.68	0.58
1:A:234:VAL:HG12	1:A:235:LYS:HG3	1.84	0.58
1:B:67:LEU:HD13	1:B:207:LEU:HD12	1.83	0.58
1:D:67:LEU:HD13	1:D:207:LEU:HD12	1.83	0.58
1:E:291:HIS:CE1	1:E:309:ILE:HD13	2.38	0.58
1:K:234:VAL:HG12	1:K:235:LYS:HG3	1.84	0.58
1:Y:291:HIS:CE1	1:Y:309:ILE:HD13	2.38	0.58
1:b:291:HIS:CE1	1:b:309:ILE:HD13	2.38	0.58
1:e:291:HIS:CE1	1:e:309:ILE:HD13	2.38	0.58
1:e:381:TYR:HD2	1:h:497:THR:OG1	1.87	0.58
1:e:499:GLY:CA	1:e:503:ASN:HD21	2.09	0.58
1:g:234:VAL:HG12	1:g:235:LYS:HG3	1.84	0.58
1:g:396:GLN:OE1	1:g:448:GLN:NE2	2.36	0.58
1:l:67:LEU:HD13	1:l:207:LEU:HD12	1.83	0.58
1:m:396:GLN:OE1	1:m:448:GLN:NE2	2.36	0.58
1:p:396:GLN:OE1	1:p:448:GLN:NE2	2.36	0.58
1:q:37:HIS:HE1	1:y:34:GLY:HA2	1.66	0.58
1:t:396:GLN:OE1	1:t:448:GLN:NE2	2.36	0.58
1:t:499:GLY:CA	1:t:503:ASN:HD21	2.10	0.58
1:4:234:VAL:HG12	1:4:235:LYS:HG3	1.84	0.58
1:8:67:LEU:HD13	1:8:207:LEU:HD12	1.83	0.58
1:A:291:HIS:CE1	1:A:309:ILE:HD13	2.38	0.58
1:B:542:GLU:HG2	1:B:544:LYS:H	1.68	0.58
1:F:291:HIS:CE1	1:F:309:ILE:HD13	2.38	0.58
1:G:291:HIS:CE1	1:G:309:ILE:HD13	2.38	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:67:LEU:HD13	1:K:207:LEU:HD12	1.83	0.58
1:L:313:GLN:OE1	1:L:325:THR:OG1	2.17	0.58
1:O:291:HIS:CE1	1:O:309:ILE:HD13	2.38	0.58
1:U:291:HIS:CE1	1:U:309:ILE:HD13	2.38	0.58
1:b:381:TYR:HD2	1:o:497:THR:OG1	1.87	0.58
1:b:499:GLY:CA	1:b:503:ASN:HD21	2.09	0.58
1:c:234:VAL:HG12	1:c:235:LYS:HG3	1.84	0.58
1:d:542:GLU:HG2	1:d:544:LYS:H	1.68	0.58
1:h:396:GLN:OE1	1:h:448:GLN:NE2	2.36	0.58
1:i:180:ASP:OD1	1:i:482:GLN:HB3	2.03	0.58
1:j:180:ASP:OD1	1:j:482:GLN:HB3	2.03	0.58
1:m:542:GLU:HG2	1:m:544:LYS:H	1.68	0.58
1:5:291:HIS:CE1	1:5:309:ILE:HD13	2.38	0.58
1:6:180:ASP:OD1	1:6:482:GLN:HB3	2.03	0.58
1:F:381:TYR:HD2	1:G:497:THR:OG1	1.87	0.58
1:I:396:GLN:OE1	1:I:448:GLN:NE2	2.36	0.58
1:P:234:VAL:HG12	1:P:235:LYS:HG3	1.84	0.58
1:T:542:GLU:HG2	1:T:544:LYS:H	1.68	0.58
1:W:234:VAL:HG12	1:W:235:LYS:HG3	1.84	0.58
1:Z:291:HIS:CE1	1:Z:309:ILE:HD13	2.38	0.58
1:j:291:HIS:CE1	1:j:309:ILE:HD13	2.38	0.58
1:k:180:ASP:OD1	1:k:482:GLN:HB3	2.03	0.58
1:p:234:VAL:HG12	1:p:235:LYS:HG3	1.84	0.58
1:r:180:ASP:OD1	1:r:482:GLN:HB3	2.03	0.58
1:r:291:HIS:CE1	1:r:309:ILE:HD13	2.38	0.58
1:2:291:HIS:CE1	1:2:309:ILE:HD13	2.38	0.58
1:2:542:GLU:HG2	1:2:544:LYS:H	1.68	0.58
1:4:542:GLU:HG2	1:4:544:LYS:H	1.68	0.58
1:7:180:ASP:OD1	1:7:482:GLN:HB3	2.03	0.58
1:D:234:VAL:HG12	1:D:235:LYS:HG3	1.84	0.58
1:E:234:VAL:HG12	1:E:235:LYS:HG3	1.84	0.58
1:H:234:VAL:HG12	1:H:235:LYS:HG3	1.84	0.58
1:J:396:GLN:OE1	1:J:448:GLN:NE2	2.36	0.58
1:K:396:GLN:OE1	1:K:448:GLN:NE2	2.36	0.58
1:L:180:ASP:OD1	1:L:482:GLN:HB3	2.03	0.58
1:M:291:HIS:CE1	1:M:309:ILE:HD13	2.38	0.58
1:N:499:GLY:CA	1:N:503:ASN:HD21	2.09	0.58
1:Q:396:GLN:OE1	1:Q:448:GLN:NE2	2.36	0.58
1:R:180:ASP:OD1	1:R:482:GLN:HB3	2.03	0.58
1:a:542:GLU:HG2	1:a:544:LYS:H	1.68	0.58
1:b:37:HIS:HE1	1:o:34:GLY:HA2	1.66	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:d:396:GLN:OE1	1:d:448:GLN:NE2	2.36	0.58
1:e:396:GLN:OE1	1:e:448:GLN:NE2	2.36	0.58
1:i:291:HIS:CE1	1:i:309:ILE:HD13	2.38	0.58
1:l:291:HIS:CE1	1:l:309:ILE:HD13	2.38	0.58
1:l:501:GLY:C	1:l:503:ASN:N	2.58	0.58
1:o:396:GLN:OE1	1:o:448:GLN:NE2	2.36	0.58
1:r:542:GLU:HG2	1:r:544:LYS:H	1.68	0.58
1:5:180:ASP:OD1	1:5:482:GLN:HB3	2.03	0.58
1:7:291:HIS:CE1	1:7:309:ILE:HD13	2.38	0.58
1:B:180:ASP:OD1	1:B:482:GLN:HB3	2.03	0.58
1:H:313:GLN:OE1	1:H:325:THR:OG1	2.17	0.58
1:H:542:GLU:HG2	1:H:544:LYS:H	1.68	0.58
1:K:542:GLU:HG2	1:K:544:LYS:H	1.68	0.58
1:M:542:GLU:HG2	1:M:544:LYS:H	1.68	0.58
1:P:542:GLU:HG2	1:P:544:LYS:H	1.68	0.58
1:S:396:GLN:OE1	1:S:448:GLN:NE2	2.36	0.58
1:T:234:VAL:HG12	1:T:235:LYS:HG3	1.85	0.58
1:U:180:ASP:OD1	1:U:482:GLN:HB3	2.03	0.58
1:a:396:GLN:OE1	1:a:448:GLN:NE2	2.36	0.58
1:e:37:HIS:HE1	1:h:34:GLY:HA2	1.66	0.58
1:o:234:VAL:HG12	1:o:235:LYS:HG3	1.84	0.58
1:o:501:GLY:C	1:o:503:ASN:N	2.58	0.58
1:w:501:GLY:C	1:w:503:ASN:N	2.58	0.58
1:x:499:GLY:CA	1:x:503:ASN:HD21	2.10	0.58
1:7:542:GLU:HG2	1:7:544:LYS:H	1.68	0.58
1:8:234:VAL:HG12	1:8:235:LYS:HG3	1.84	0.58
1:8:501:GLY:C	1:8:503:ASN:N	2.58	0.58
1:G:234:VAL:HG12	1:G:235:LYS:HG3	1.84	0.58
1:K:291:HIS:CE1	1:K:309:ILE:HD13	2.38	0.58
1:N:180:ASP:OD1	1:N:482:GLN:HB3	2.03	0.58
1:N:501:GLY:C	1:N:503:ASN:N	2.58	0.58
1:T:291:HIS:CE1	1:T:309:ILE:HD13	2.38	0.58
1:T:396:GLN:OE1	1:T:448:GLN:NE2	2.36	0.58
1:X:291:HIS:CE1	1:X:309:ILE:HD13	2.38	0.58
1:Y:501:GLY:C	1:Y:503:ASN:N	2.58	0.58
1:b:396:GLN:OE1	1:b:448:GLN:NE2	2.36	0.58
1:h:234:VAL:HG12	1:h:235:LYS:HG3	1.84	0.58
1:i:542:GLU:HG2	1:i:544:LYS:H	1.68	0.58
1:k:291:HIS:CE1	1:k:309:ILE:HD13	2.39	0.58
1:n:542:GLU:HG2	1:n:544:LYS:H	1.68	0.58
1:v:234:VAL:HG12	1:v:235:LYS:HG3	1.84	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:x:291:HIS:CE1	1:x:309:ILE:HD13	2.38	0.58
1:y:234:VAL:HG12	1:y:235:LYS:HG3	1.84	0.58
1:2:180:ASP:OD1	1:2:482:GLN:HB3	2.03	0.58
1:2:381:TYR:HD2	1:3:497:THR:OG1	1.85	0.58
1:6:291:HIS:CE1	1:6:309:ILE:HD13	2.38	0.58
1:8:291:HIS:CE1	1:8:309:ILE:HD13	2.38	0.58
1:A:396:GLN:OE1	1:A:448:GLN:NE2	2.36	0.58
1:B:497:THR:OG1	1:C:381:TYR:HD2	1.87	0.58
1:E:542:GLU:HG2	1:E:544:LYS:H	1.68	0.58
1:G:396:GLN:OE1	1:G:448:GLN:NE2	2.36	0.58
1:M:234:VAL:HG12	1:M:235:LYS:HG3	1.84	0.58
1:X:542:GLU:HG2	1:X:544:LYS:H	1.68	0.58
1:a:234:VAL:HG12	1:a:235:LYS:HG3	1.84	0.58
1:b:152:LYS:NZ	1:b:169:ASN:OD1	2.29	0.58
1:k:497:THR:OG1	1:w:381:TYR:HD2	1.87	0.58
1:s:234:VAL:HG12	1:s:235:LYS:HG3	1.85	0.58
1:u:37:HIS:HE1	1:2:34:GLY:HA2	1.68	0.58
1:u:291:HIS:CE1	1:u:309:ILE:HD13	2.38	0.58
1:y:180:ASP:OD1	1:y:482:GLN:HB3	2.03	0.58
1:1:291:HIS:CE1	1:1:309:ILE:HD13	2.38	0.58
1:3:542:GLU:HG2	1:3:544:LYS:H	1.68	0.58
1:P:313:GLN:OE1	1:P:325:THR:OG1	2.17	0.57
1:R:499:GLY:CA	1:R:503:ASN:HD21	2.10	0.57
1:U:396:GLN:OE1	1:U:448:GLN:NE2	2.36	0.57
1:V:234:VAL:HG12	1:V:235:LYS:HG3	1.84	0.57
1:X:234:VAL:HG12	1:X:235:LYS:HG3	1.84	0.57
1:Y:180:ASP:OD1	1:Y:482:GLN:HB3	2.03	0.57
1:a:291:HIS:CE1	1:a:309:ILE:HD13	2.38	0.57
1:d:234:VAL:HG12	1:d:235:LYS:HG3	1.84	0.57
1:l:234:VAL:HG12	1:l:235:LYS:HG3	1.84	0.57
1:n:180:ASP:OD1	1:n:482:GLN:HB3	2.03	0.57
1:o:381:TYR:HD2	1:7:497:THR:OG1	1.87	0.57
1:r:234:VAL:HG12	1:r:235:LYS:HG3	1.85	0.57
1:r:501:GLY:C	1:r:503:ASN:N	2.58	0.57
1:s:291:HIS:CE1	1:s:309:ILE:HD13	2.38	0.57
1:t:381:TYR:HD2	1:6:497:THR:OG1	1.87	0.57
1:t:542:GLU:HG2	1:t:544:LYS:H	1.68	0.57
1:u:499:GLY:CA	1:u:503:ASN:HD21	2.10	0.57
1:z:180:ASP:OD1	1:z:482:GLN:HB3	2.03	0.57
1:z:234:VAL:HG12	1:z:235:LYS:HG3	1.84	0.57
1:z:291:HIS:CE1	1:z:309:ILE:HD13	2.38	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:2:234:VAL:HG12	1:2:235:LYS:HG3	1.84	0.57
1:C:234:VAL:HG12	1:C:235:LYS:HG3	1.84	0.57
1:E:396:GLN:OE1	1:E:448:GLN:NE2	2.36	0.57
1:F:396:GLN:OE1	1:F:448:GLN:NE2	2.36	0.57
1:G:542:GLU:HG2	1:G:544:LYS:H	1.68	0.57
1:V:291:HIS:CE1	1:V:309:ILE:HD13	2.38	0.57
1:W:180:ASP:OD1	1:W:482:GLN:HB3	2.03	0.57
1:g:381:TYR:HD2	1:1:497:THR:OG1	1.86	0.57
1:i:313:GLN:OE1	1:i:325:THR:OG1	2.17	0.57
1:j:501:GLY:C	1:j:503:ASN:H	2.13	0.57
1:n:291:HIS:CE1	1:n:309:ILE:HD13	2.38	0.57
1:v:180:ASP:OD1	1:v:482:GLN:HB3	2.03	0.57
1:5:501:GLY:C	1:5:503:ASN:H	2.13	0.57
1:A:542:GLU:HG2	1:A:544:LYS:H	1.68	0.57
1:C:291:HIS:CE1	1:C:309:ILE:HD13	2.38	0.57
1:D:180:ASP:OD1	1:D:482:GLN:HB3	2.03	0.57
1:F:499:GLY:CA	1:F:503:ASN:HD21	2.09	0.57
1:J:381:TYR:HD2	1:a:497:THR:OG1	1.87	0.57
1:M:180:ASP:OD1	1:M:482:GLN:HB3	2.03	0.57
1:O:497:THR:OG1	1:d:381:TYR:HD2	1.87	0.57
1:R:313:GLN:OE1	1:R:325:THR:OG1	2.17	0.57
1:Z:497:THR:OG1	1:a:381:TYR:HD2	1.87	0.57
1:d:291:HIS:CE1	1:d:309:ILE:HD13	2.38	0.57
1:e:152:LYS:NZ	1:e:169:ASN:OD1	2.29	0.57
1:q:291:HIS:CE1	1:q:309:ILE:HD13	2.38	0.57
1:s:180:ASP:OD1	1:s:482:GLN:HB3	2.03	0.57
1:u:497:THR:OG1	1:5:381:TYR:HD2	1.87	0.57
1:w:542:GLU:HG2	1:w:544:LYS:H	1.68	0.57
1:3:180:ASP:OD1	1:3:482:GLN:HB3	2.03	0.57
1:3:291:HIS:CE1	1:3:309:ILE:HD13	2.38	0.57
1:6:396:GLN:OE1	1:6:448:GLN:NE2	2.36	0.57
1:J:291:HIS:CE1	1:J:309:ILE:HD13	2.38	0.57
1:L:396:GLN:OE1	1:L:448:GLN:NE2	2.36	0.57
1:d:180:ASP:OD1	1:d:482:GLN:HB3	2.03	0.57
1:k:396:GLN:OE1	1:k:448:GLN:NE2	2.36	0.57
1:n:501:GLY:C	1:n:503:ASN:N	2.58	0.57
1:o:180:ASP:OD1	1:o:482:GLN:HB3	2.03	0.57
1:p:501:GLY:C	1:p:503:ASN:N	2.58	0.57
1:t:501:GLY:C	1:t:503:ASN:N	2.58	0.57
1:v:396:GLN:OE1	1:v:448:GLN:NE2	2.36	0.57
1:7:313:GLN:OE1	1:7:325:THR:OG1	2.17	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:314:TRP:CZ2	1:E:327:VAL:HG23	2.40	0.57
1:G:314:TRP:CZ2	1:G:327:VAL:HG23	2.40	0.57
1:H:501:GLY:C	1:H:503:ASN:H	2.13	0.57
1:S:291:HIS:CE1	1:S:309:ILE:HD13	2.38	0.57
1:S:381:TYR:HD2	1:d:497:THR:OG1	1.87	0.57
1:V:313:GLN:OE1	1:V:325:THR:OG1	2.17	0.57
1:X:180:ASP:OD1	1:X:482:GLN:HB3	2.03	0.57
1:a:314:TRP:CZ2	1:a:327:VAL:HG23	2.40	0.57
1:d:314:TRP:CZ2	1:d:327:VAL:HG23	2.40	0.57
1:h:180:ASP:OD1	1:h:482:GLN:HB3	2.03	0.57
1:m:291:HIS:CE1	1:m:309:ILE:HD13	2.38	0.57
1:u:314:TRP:CZ2	1:u:327:VAL:HG23	2.40	0.57
1:x:314:TRP:CZ2	1:x:327:VAL:HG23	2.40	0.57
1:y:396:GLN:OE1	1:y:448:GLN:NE2	2.36	0.57
1:2:501:GLY:C	1:2:503:ASN:N	2.58	0.57
1:4:291:HIS:CE1	1:4:309:ILE:HD13	2.39	0.57
1:F:542:GLU:HG2	1:F:544:LYS:H	1.68	0.57
1:I:501:GLY:C	1:I:503:ASN:H	2.13	0.57
1:L:234:VAL:HG12	1:L:235:LYS:HG3	1.84	0.57
1:O:381:TYR:HD2	1:P:497:THR:OG1	1.87	0.57
1:Q:501:GLY:C	1:Q:503:ASN:H	2.13	0.57
1:a:180:ASP:OD1	1:a:482:GLN:HB3	2.03	0.57
1:c:501:GLY:C	1:c:503:ASN:H	2.13	0.57
1:t:501:GLY:C	1:t:503:ASN:H	2.13	0.57
1:A:313:GLN:OE1	1:A:325:THR:OG1	2.17	0.57
1:A:499:GLY:CA	1:A:503:ASN:HD21	2.09	0.57
1:B:313:GLN:OE1	1:B:325:THR:OG1	2.17	0.57
1:B:314:TRP:CZ2	1:B:327:VAL:HG23	2.40	0.57
1:C:501:GLY:C	1:C:503:ASN:N	2.58	0.57
1:D:314:TRP:CZ2	1:D:327:VAL:HG23	2.40	0.57
1:D:542:GLU:HG2	1:D:544:LYS:H	1.68	0.57
1:O:501:GLY:C	1:O:503:ASN:N	2.58	0.57
1:P:501:GLY:C	1:P:503:ASN:H	2.13	0.57
1:R:314:TRP:CZ2	1:R:327:VAL:HG23	2.40	0.57
1:W:314:TRP:CZ2	1:W:327:VAL:HG23	2.40	0.57
1:Y:542:GLU:HG2	1:Y:544:LYS:H	1.68	0.57
1:Z:501:GLY:C	1:Z:503:ASN:N	2.58	0.57
1:w:501:GLY:C	1:w:503:ASN:H	2.13	0.57
1:3:501:GLY:C	1:3:503:ASN:N	2.58	0.57
1:8:501:GLY:C	1:8:503:ASN:H	2.13	0.57
1:C:313:GLN:OE1	1:C:325:THR:OG1	2.17	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:542:GLU:HG2	1:C:544:LYS:H	1.68	0.57
1:N:501:GLY:C	1:N:503:ASN:H	2.13	0.57
1:W:542:GLU:HG2	1:W:544:LYS:H	1.68	0.57
1:X:152:LYS:NZ	1:X:169:ASN:OD1	2.29	0.57
1:Y:501:GLY:C	1:Y:503:ASN:H	2.13	0.57
1:b:180:ASP:OD1	1:b:482:GLN:HB3	2.03	0.57
1:f:501:GLY:C	1:f:503:ASN:H	2.13	0.57
1:g:501:GLY:C	1:g:503:ASN:N	2.58	0.57
1:l:501:GLY:C	1:l:503:ASN:H	2.13	0.57
1:A:501:GLY:C	1:A:503:ASN:H	2.13	0.57
1:F:501:GLY:C	1:F:503:ASN:H	2.13	0.57
1:H:314:TRP:CZ2	1:H:327:VAL:HG23	2.40	0.57
1:H:497:THR:OG1	1:Z:381:TYR:HD2	1.87	0.57
1:H:499:GLY:CA	1:H:503:ASN:HD21	2.10	0.57
1:L:501:GLY:C	1:L:503:ASN:H	2.13	0.57
1:N:542:GLU:HG2	1:N:544:LYS:H	1.68	0.57
1:P:499:GLY:CA	1:P:503:ASN:HD21	2.09	0.57
1:U:234:VAL:HG12	1:U:235:LYS:HG3	1.85	0.57
1:U:501:GLY:C	1:U:503:ASN:H	2.13	0.57
1:V:542:GLU:HG2	1:V:544:LYS:H	1.68	0.57
1:p:381:TYR:HD2	1:q:497:THR:OG1	1.87	0.57
1:q:152:LYS:NZ	1:q:169:ASN:OD1	2.29	0.57
1:q:180:ASP:OD1	1:q:482:GLN:HB3	2.03	0.57
1:l:501:GLY:C	1:l:503:ASN:H	2.13	0.57
1:8:314:TRP:CZ2	1:8:327:VAL:HG23	2.40	0.57
1:C:497:THR:OG1	1:D:381:TYR:HD2	1.88	0.57
1:F:313:GLN:OE1	1:F:325:THR:OG1	2.17	0.57
1:P:314:TRP:CZ2	1:P:327:VAL:HG23	2.40	0.57
1:e:180:ASP:OD1	1:e:482:GLN:HB3	2.03	0.57
1:e:313:GLN:OE1	1:e:325:THR:OG1	2.17	0.57
1:l:314:TRP:CZ2	1:l:327:VAL:HG23	2.40	0.57
1:m:314:TRP:CZ2	1:m:327:VAL:HG23	2.40	0.57
1:p:497:THR:OG1	1:6:381:TYR:HD2	1.87	0.57
1:s:314:TRP:CZ2	1:s:327:VAL:HG23	2.40	0.57
1:y:313:GLN:OE1	1:y:325:THR:OG1	2.17	0.57
1:4:314:TRP:CZ2	1:4:327:VAL:HG23	2.40	0.57
1:q:314:TRP:CZ2	1:q:327:VAL:HG23	2.40	0.56
1:q:501:GLY:C	1:q:503:ASN:H	2.13	0.56
1:r:497:THR:OG1	1:x:381:TYR:HD2	1.87	0.56
1:t:314:TRP:CZ2	1:t:327:VAL:HG23	2.40	0.56
1:w:314:TRP:CZ2	1:w:327:VAL:HG23	2.40	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:y:314:TRP:CZ2	1:y:327:VAL:HG23	2.40	0.56
1:z:314:TRP:CZ2	1:z:327:VAL:HG23	2.40	0.56
1:1:180:ASP:OD1	1:1:482:GLN:HB3	2.03	0.56
1:1:313:GLN:OE1	1:1:325:THR:OG1	2.17	0.56
1:A:81:ASP:OD1	1:A:82:ARG:N	2.38	0.56
1:C:81:ASP:OD1	1:C:82:ARG:N	2.38	0.56
1:F:195:ASP:OD2	1:F:208:LYS:NZ	2.39	0.56
1:K:314:TRP:CZ2	1:K:327:VAL:HG23	2.40	0.56
1:O:195:ASP:OD2	1:O:208:LYS:NZ	2.39	0.56
1:V:81:ASP:OD1	1:V:82:ARG:N	2.38	0.56
1:V:497:THR:OG1	1:W:381:TYR:HD2	1.88	0.56
1:W:195:ASP:OD2	1:W:208:LYS:NZ	2.39	0.56
1:Z:195:ASP:OD2	1:Z:208:LYS:NZ	2.39	0.56
1:a:195:ASP:OD2	1:a:208:LYS:NZ	2.39	0.56
1:e:314:TRP:CZ2	1:e:327:VAL:HG23	2.40	0.56
1:g:497:THR:OG1	1:k:381:TYR:HD2	1.87	0.56
1:v:314:TRP:CZ2	1:v:327:VAL:HG23	2.40	0.56
1:v:497:THR:OG1	1:1:381:TYR:HD2	1.87	0.56
1:1:314:TRP:CZ2	1:1:327:VAL:HG23	2.40	0.56
1:3:81:ASP:OD1	1:3:82:ARG:N	2.38	0.56
1:A:195:ASP:OD2	1:A:208:LYS:NZ	2.39	0.56
1:A:314:TRP:CZ2	1:A:327:VAL:HG23	2.40	0.56
1:A:501:GLY:C	1:A:503:ASN:N	2.58	0.56
1:C:314:TRP:CZ2	1:C:327:VAL:HG23	2.40	0.56
1:E:195:ASP:OD2	1:E:208:LYS:NZ	2.39	0.56
1:F:81:ASP:OD1	1:F:82:ARG:N	2.39	0.56
1:F:314:TRP:CZ2	1:F:327:VAL:HG23	2.40	0.56
1:G:195:ASP:OD2	1:G:208:LYS:NZ	2.39	0.56
1:H:195:ASP:OD2	1:H:208:LYS:NZ	2.39	0.56
1:I:81:ASP:OD1	1:I:82:ARG:N	2.38	0.56
1:I:314:TRP:CZ2	1:I:327:VAL:HG23	2.40	0.56
1:J:314:TRP:CZ2	1:J:327:VAL:HG23	2.40	0.56
1:L:314:TRP:CZ2	1:L:327:VAL:HG23	2.40	0.56
1:O:314:TRP:CZ2	1:O:327:VAL:HG23	2.40	0.56
1:P:195:ASP:OD2	1:P:208:LYS:NZ	2.39	0.56
1:Q:314:TRP:CZ2	1:Q:327:VAL:HG23	2.40	0.56
1:S:314:TRP:CZ2	1:S:327:VAL:HG23	2.40	0.56
1:T:314:TRP:CZ2	1:T:327:VAL:HG23	2.40	0.56
1:V:501:GLY:C	1:V:503:ASN:N	2.58	0.56
1:Y:314:TRP:CZ2	1:Y:327:VAL:HG23	2.40	0.56
1:Z:314:TRP:CZ2	1:Z:327:VAL:HG23	2.40	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:b:195:ASP:OD2	1:b:208:LYS:NZ	2.39	0.56
1:b:313:GLN:OE1	1:b:325:THR:OG1	2.17	0.56
1:b:314:TRP:CZ2	1:b:327:VAL:HG23	2.40	0.56
1:e:81:ASP:OD1	1:e:82:ARG:N	2.38	0.56
1:f:313:GLN:OE1	1:f:325:THR:OG1	2.17	0.56
1:g:501:GLY:C	1:g:503:ASN:H	2.13	0.56
1:h:195:ASP:OD2	1:h:208:LYS:NZ	2.39	0.56
1:h:314:TRP:CZ2	1:h:327:VAL:HG23	2.40	0.56
1:i:314:TRP:CZ2	1:i:327:VAL:HG23	2.40	0.56
1:l:81:ASP:OD1	1:l:82:ARG:N	2.38	0.56
1:n:81:ASP:OD1	1:n:82:ARG:N	2.38	0.56
1:n:314:TRP:CZ2	1:n:327:VAL:HG23	2.40	0.56
1:o:195:ASP:OD2	1:o:208:LYS:NZ	2.39	0.56
1:o:501:GLY:C	1:o:503:ASN:H	2.13	0.56
1:q:81:ASP:OD1	1:q:82:ARG:N	2.38	0.56
1:q:313:GLN:OE1	1:q:325:THR:OG1	2.17	0.56
1:s:81:ASP:OD1	1:s:82:ARG:N	2.38	0.56
1:v:313:GLN:OE1	1:v:325:THR:OG1	2.17	0.56
1:1:81:ASP:OD1	1:1:82:ARG:N	2.38	0.56
1:1:152:LYS:NZ	1:1:169:ASN:OD1	2.29	0.56
1:3:314:TRP:CZ2	1:3:327:VAL:HG23	2.40	0.56
1:4:81:ASP:OD1	1:4:82:ARG:N	2.38	0.56
1:4:501:GLY:C	1:4:503:ASN:H	2.13	0.56
1:4:501:GLY:C	1:4:503:ASN:N	2.58	0.56
1:7:314:TRP:CZ2	1:7:327:VAL:HG23	2.40	0.56
1:7:501:GLY:C	1:7:503:ASN:H	2.13	0.56
1:C:195:ASP:OD2	1:C:208:LYS:NZ	2.39	0.56
1:E:501:GLY:C	1:E:503:ASN:H	2.13	0.56
1:L:501:GLY:C	1:L:503:ASN:N	2.58	0.56
1:M:501:GLY:C	1:M:503:ASN:H	2.13	0.56
1:N:314:TRP:CZ2	1:N:327:VAL:HG23	2.40	0.56
1:S:447:ILE:HG22	1:S:472:PRO:HG3	1.88	0.56
1:U:501:GLY:C	1:U:503:ASN:N	2.58	0.56
1:V:195:ASP:OD2	1:V:208:LYS:NZ	2.39	0.56
1:X:501:GLY:C	1:X:503:ASN:H	2.13	0.56
1:a:81:ASP:OD1	1:a:82:ARG:N	2.38	0.56
1:b:81:ASP:OD1	1:b:82:ARG:N	2.39	0.56
1:c:313:GLN:OE1	1:c:325:THR:OG1	2.17	0.56
1:c:447:ILE:HG22	1:c:472:PRO:HG3	1.88	0.56
1:d:81:ASP:OD1	1:d:82:ARG:N	2.38	0.56
1:e:195:ASP:OD2	1:e:208:LYS:NZ	2.39	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:h:501:GLY:C	1:h:503:ASN:H	2.13	0.56
1:i:501:GLY:C	1:i:503:ASN:H	2.13	0.56
1:j:81:ASP:OD1	1:j:82:ARG:N	2.38	0.56
1:l:497:THR:OG1	1:n:381:TYR:HD2	1.87	0.56
1:m:501:GLY:C	1:m:503:ASN:H	2.13	0.56
1:q:381:TYR:HD2	1:y:497:THR:OG1	1.87	0.56
1:y:81:ASP:OD1	1:y:82:ARG:N	2.39	0.56
1:8:81:ASP:OD1	1:8:82:ARG:N	2.38	0.56
1:E:152:LYS:NZ	1:E:169:ASN:OD1	2.29	0.56
1:F:501:GLY:C	1:F:503:ASN:N	2.58	0.56
1:G:501:GLY:C	1:G:503:ASN:H	2.13	0.56
1:J:447:ILE:HG22	1:J:472:PRO:HG3	1.88	0.56
1:J:501:GLY:C	1:J:503:ASN:H	2.13	0.56
1:M:314:TRP:CZ2	1:M:327:VAL:HG23	2.40	0.56
1:Q:81:ASP:OD1	1:Q:82:ARG:N	2.39	0.56
1:U:314:TRP:CZ2	1:U:327:VAL:HG23	2.40	0.56
1:U:381:TYR:HD2	1:e:497:THR:OG1	1.87	0.56
1:V:314:TRP:CZ2	1:V:327:VAL:HG23	2.40	0.56
1:f:447:ILE:HG22	1:f:472:PRO:HG3	1.88	0.56
1:k:314:TRP:CZ2	1:k:327:VAL:HG23	2.40	0.56
1:m:81:ASP:OD1	1:m:82:ARG:N	2.39	0.56
1:m:501:GLY:C	1:m:503:ASN:N	2.58	0.56
1:o:314:TRP:CZ2	1:o:327:VAL:HG23	2.40	0.56
1:u:447:ILE:HG22	1:u:472:PRO:HG3	1.88	0.56
1:v:81:ASP:OD1	1:v:82:ARG:N	2.39	0.56
1:x:81:ASP:OD1	1:x:82:ARG:N	2.39	0.56
1:x:447:ILE:HG22	1:x:472:PRO:HG3	1.88	0.56
1:x:501:GLY:C	1:x:503:ASN:H	2.13	0.56
1:z:81:ASP:OD1	1:z:82:ARG:N	2.39	0.56
1:1:499:GLY:CA	1:1:503:ASN:HD21	2.09	0.56
1:3:381:TYR:HD2	1:8:497:THR:OG1	1.87	0.56
1:5:81:ASP:OD1	1:5:82:ARG:N	2.38	0.56
1:6:314:TRP:CZ2	1:6:327:VAL:HG23	2.40	0.56
1:E:81:ASP:OD1	1:E:82:ARG:N	2.39	0.56
1:G:152:LYS:NZ	1:G:169:ASN:OD1	2.29	0.56
1:G:381:TYR:HD2	1:W:497:THR:OG1	1.87	0.56
1:H:447:ILE:HG22	1:H:472:PRO:HG3	1.88	0.56
1:K:381:TYR:HD2	1:L:497:THR:OG1	1.87	0.56
1:M:497:THR:OG1	1:c:381:TYR:HD2	1.87	0.56
1:N:195:ASP:OD2	1:N:208:LYS:NZ	2.39	0.56
1:P:447:ILE:HG22	1:P:472:PRO:HG3	1.88	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:a:313:GLN:OE1	1:a:325:THR:OG1	2.17	0.56
1:c:314:TRP:CZ2	1:c:327:VAL:HG23	2.40	0.56
1:f:314:TRP:CZ2	1:f:327:VAL:HG23	2.40	0.56
1:j:497:THR:OG1	1:l:381:TYR:HD2	1.87	0.56
1:m:195:ASP:OD2	1:m:208:LYS:NZ	2.39	0.56
1:p:501:GLY:C	1:p:503:ASN:H	2.13	0.56
1:r:314:TRP:CZ2	1:r:327:VAL:HG23	2.40	0.56
1:t:117:SER:HA	1:t:452:GLY:O	2.06	0.56
1:u:81:ASP:OD1	1:u:82:ARG:N	2.39	0.56
1:5:314:TRP:CZ2	1:5:327:VAL:HG23	2.40	0.56
1:5:497:THR:OG1	1:8:381:TYR:HD2	1.87	0.56
1:B:195:ASP:OD2	1:B:208:LYS:NZ	2.39	0.56
1:D:501:GLY:C	1:D:503:ASN:H	2.13	0.56
1:G:81:ASP:OD1	1:G:82:ARG:N	2.39	0.56
1:J:117:SER:HA	1:J:452:GLY:O	2.06	0.56
1:K:447:ILE:HG22	1:K:472:PRO:HG3	1.88	0.56
1:L:381:TYR:HD2	1:b:497:THR:OG1	1.87	0.56
1:N:117:SER:HA	1:N:452:GLY:O	2.06	0.56
1:N:381:TYR:HD2	1:m:497:THR:OG1	1.87	0.56
1:O:81:ASP:OD1	1:O:82:ARG:N	2.38	0.56
1:P:81:ASP:OD1	1:P:82:ARG:N	2.38	0.56
1:Q:117:SER:HA	1:Q:452:GLY:O	2.06	0.56
1:Q:381:TYR:HD2	1:S:497:THR:OG1	1.87	0.56
1:R:195:ASP:OD2	1:R:208:LYS:NZ	2.39	0.56
1:T:447:ILE:HG22	1:T:472:PRO:HG3	1.88	0.56
1:W:81:ASP:OD1	1:W:82:ARG:N	2.38	0.56
1:X:314:TRP:CZ2	1:X:327:VAL:HG23	2.40	0.56
1:X:497:THR:OG1	1:f:381:TYR:HD2	1.87	0.56
1:Y:117:SER:HA	1:Y:452:GLY:O	2.06	0.56
1:Y:381:TYR:HD2	1:4:497:THR:OG1	1.87	0.56
1:g:447:ILE:HG22	1:g:472:PRO:HG3	1.88	0.56
1:k:313:GLN:OE1	1:k:325:THR:OG1	2.17	0.56
1:p:447:ILE:HG22	1:p:472:PRO:HG3	1.88	0.56
1:r:447:ILE:HG22	1:r:472:PRO:HG3	1.88	0.56
1:r:501:GLY:C	1:r:503:ASN:H	2.13	0.56
1:t:447:ILE:HG22	1:t:472:PRO:HG3	1.88	0.56
1:v:447:ILE:HG22	1:v:472:PRO:HG3	1.88	0.56
1:w:117:SER:HA	1:w:452:GLY:O	2.06	0.56
1:w:447:ILE:HG22	1:w:472:PRO:HG3	1.88	0.56
1:2:501:GLY:C	1:2:503:ASN:H	2.13	0.56
1:8:447:ILE:HG22	1:8:472:PRO:HG3	1.88	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:81:ASP:OD1	1:D:82:ARG:N	2.38	0.56
1:D:117:SER:HA	1:D:452:GLY:O	2.06	0.56
1:H:81:ASP:OD1	1:H:82:ARG:N	2.39	0.56
1:I:117:SER:HA	1:I:452:GLY:O	2.06	0.56
1:I:501:GLY:C	1:I:503:ASN:N	2.58	0.56
1:M:81:ASP:OD1	1:M:82:ARG:N	2.38	0.56
1:S:117:SER:HA	1:S:452:GLY:O	2.06	0.56
1:S:501:GLY:C	1:S:503:ASN:H	2.13	0.56
1:W:117:SER:HA	1:W:452:GLY:O	2.06	0.56
1:Z:81:ASP:OD1	1:Z:82:ARG:N	2.39	0.56
1:b:501:GLY:C	1:b:503:ASN:H	2.13	0.56
1:j:314:TRP:CZ2	1:j:327:VAL:HG23	2.40	0.56
1:n:499:GLY:CA	1:n:503:ASN:HD21	2.09	0.56
1:u:501:GLY:C	1:u:503:ASN:H	2.13	0.56
1:1:447:ILE:HG22	1:1:472:PRO:HG3	1.88	0.56
1:2:314:TRP:CZ2	1:2:327:VAL:HG23	2.40	0.56
1:2:447:ILE:HG22	1:2:472:PRO:HG3	1.88	0.56
1:5:447:ILE:HG22	1:5:472:PRO:HG3	1.88	0.56
1:6:313:GLN:OE1	1:6:325:THR:OG1	2.17	0.56
1:D:497:THR:OG1	1:E:381:TYR:HD2	1.87	0.56
1:I:381:TYR:HD2	1:J:497:THR:OG1	1.87	0.56
1:M:117:SER:HA	1:M:452:GLY:O	2.06	0.56
1:N:447:ILE:HG22	1:N:472:PRO:HG3	1.88	0.56
1:Q:501:GLY:C	1:Q:503:ASN:N	2.58	0.56
1:R:81:ASP:OD1	1:R:82:ARG:N	2.38	0.56
1:T:381:TYR:HD2	1:U:497:THR:OG1	1.87	0.56
1:W:501:GLY:C	1:W:503:ASN:H	2.13	0.56
1:X:81:ASP:OD1	1:X:82:ARG:N	2.38	0.56
1:X:117:SER:HA	1:X:452:GLY:O	2.06	0.56
1:Y:81:ASP:OD1	1:Y:82:ARG:N	2.39	0.56
1:i:195:ASP:OD2	1:i:208:LYS:NZ	2.39	0.56
1:j:447:ILE:HG22	1:j:472:PRO:HG3	1.88	0.56
1:k:447:ILE:HG22	1:k:472:PRO:HG3	1.88	0.56
1:l:447:ILE:HG22	1:l:472:PRO:HG3	1.88	0.56
1:m:447:ILE:HG22	1:m:472:PRO:HG3	1.88	0.56
1:r:81:ASP:OD1	1:r:82:ARG:N	2.38	0.56
1:s:447:ILE:HG22	1:s:472:PRO:HG3	1.88	0.56
1:t:195:ASP:OD2	1:t:208:LYS:NZ	2.39	0.56
1:v:117:SER:HA	1:v:452:GLY:O	2.06	0.56
1:6:447:ILE:HG22	1:6:472:PRO:HG3	1.88	0.56
1:F:177:VAL:HG22	1:F:485:VAL:HG12	1.88	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:117:SER:HA	1:H:452:GLY:O	2.06	0.56
1:K:177:VAL:HG22	1:K:485:VAL:HG12	1.88	0.56
1:N:81:ASP:OD1	1:N:82:ARG:N	2.39	0.56
1:S:81:ASP:OD1	1:S:82:ARG:N	2.38	0.56
1:T:117:SER:HA	1:T:452:GLY:O	2.06	0.56
1:Y:447:ILE:HG22	1:Y:472:PRO:HG3	1.88	0.56
1:a:117:SER:HA	1:a:452:GLY:O	2.06	0.56
1:d:117:SER:HA	1:d:452:GLY:O	2.06	0.56
1:g:314:TRP:CZ2	1:g:327:VAL:HG23	2.40	0.56
1:i:81:ASP:OD1	1:i:82:ARG:N	2.38	0.56
1:q:499:GLY:CA	1:q:503:ASN:HD21	2.09	0.56
1:w:195:ASP:OD2	1:w:208:LYS:NZ	2.39	0.56
1:y:117:SER:HA	1:y:452:GLY:O	2.06	0.56
1:y:447:ILE:HG22	1:y:472:PRO:HG3	1.88	0.56
1:z:447:ILE:HG22	1:z:472:PRO:HG3	1.88	0.56
1:3:499:GLY:CA	1:3:503:ASN:HD21	2.09	0.56
1:4:447:ILE:HG22	1:4:472:PRO:HG3	1.88	0.56
1:7:81:ASP:OD1	1:7:82:ARG:N	2.38	0.56
1:7:195:ASP:OD2	1:7:208:LYS:NZ	2.39	0.56
1:A:177:VAL:HG22	1:A:485:VAL:HG12	1.88	0.55
1:B:81:ASP:OD1	1:B:82:ARG:N	2.39	0.55
1:D:177:VAL:HG22	1:D:485:VAL:HG12	1.88	0.55
1:H:381:TYR:HD2	1:I:497:THR:OG1	1.87	0.55
1:J:81:ASP:OD1	1:J:82:ARG:N	2.38	0.55
1:K:117:SER:HA	1:K:452:GLY:O	2.06	0.55
1:O:117:SER:HA	1:O:452:GLY:O	2.06	0.55
1:P:117:SER:HA	1:P:452:GLY:O	2.06	0.55
1:T:177:VAL:HG22	1:T:485:VAL:HG12	1.88	0.55
1:T:497:THR:OG1	1:i:381:TYR:HD2	1.88	0.55
1:V:499:GLY:CA	1:V:503:ASN:HD21	2.09	0.55
1:Z:117:SER:HA	1:Z:452:GLY:O	2.06	0.55
1:a:501:GLY:C	1:a:503:ASN:H	2.13	0.55
1:d:501:GLY:C	1:d:503:ASN:H	2.13	0.55
1:e:501:GLY:C	1:e:503:ASN:H	2.13	0.55
1:f:152:LYS:NZ	1:f:169:ASN:OD1	2.29	0.55
1:g:177:VAL:HG22	1:g:485:VAL:HG12	1.88	0.55
1:h:177:VAL:HG22	1:h:485:VAL:HG12	1.88	0.55
1:o:177:VAL:HG22	1:o:485:VAL:HG12	1.88	0.55
1:q:117:SER:HA	1:q:452:GLY:O	2.06	0.55
1:q:447:ILE:HG22	1:q:472:PRO:HG3	1.88	0.55
1:2:81:ASP:OD1	1:2:82:ARG:N	2.38	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:S:195:ASP:OD2	1:S:208:LYS:NZ	2.39	0.55
1:U:117:SER:HA	1:U:452:GLY:O	2.06	0.55
1:U:499:GLY:CA	1:U:503:ASN:HD21	2.10	0.55
1:W:177:VAL:HG22	1:W:485:VAL:HG12	1.88	0.55
1:Z:501:GLY:C	1:Z:503:ASN:H	2.13	0.55
1:c:177:VAL:HG22	1:c:485:VAL:HG12	1.88	0.55
1:f:177:VAL:HG22	1:f:485:VAL:HG12	1.88	0.55
1:h:81:ASP:OD1	1:h:82:ARG:N	2.38	0.55
1:o:81:ASP:OD1	1:o:82:ARG:N	2.38	0.55
1:p:81:ASP:OD1	1:p:82:ARG:N	2.38	0.55
1:p:177:VAL:HG22	1:p:485:VAL:HG12	1.88	0.55
1:1:117:SER:HA	1:1:452:GLY:O	2.06	0.55
1:7:177:VAL:HG22	1:7:485:VAL:HG12	1.88	0.55
1:A:117:SER:HA	1:A:452:GLY:O	2.06	0.55
1:C:499:GLY:CA	1:C:503:ASN:HD21	2.09	0.55
1:E:117:SER:HA	1:E:452:GLY:O	2.06	0.55
1:E:313:GLN:OE1	1:E:325:THR:OG1	2.17	0.55
1:F:117:SER:HA	1:F:452:GLY:O	2.06	0.55
1:L:81:ASP:OD1	1:L:82:ARG:N	2.39	0.55
1:L:117:SER:HA	1:L:452:GLY:O	2.06	0.55
1:O:501:GLY:C	1:O:503:ASN:H	2.13	0.55
1:P:381:TYR:HD2	1:Q:497:THR:OG1	1.87	0.55
1:U:81:ASP:OD1	1:U:82:ARG:N	2.39	0.55
1:Z:152:LYS:NZ	1:Z:169:ASN:OD1	2.29	0.55
1:b:447:ILE:HG22	1:b:472:PRO:HG3	1.88	0.55
1:c:117:SER:HA	1:c:452:GLY:O	2.06	0.55
1:e:447:ILE:HG22	1:e:472:PRO:HG3	1.88	0.55
1:f:117:SER:HA	1:f:452:GLY:O	2.06	0.55
1:h:447:ILE:HG22	1:h:472:PRO:HG3	1.88	0.55
1:i:177:VAL:HG22	1:i:485:VAL:HG12	1.88	0.55
1:i:447:ILE:HG22	1:i:472:PRO:HG3	1.88	0.55
1:m:117:SER:HA	1:m:452:GLY:O	2.06	0.55
1:n:447:ILE:HG22	1:n:472:PRO:HG3	1.88	0.55
1:p:314:TRP:CZ2	1:p:327:VAL:HG23	2.40	0.55
1:F:497:THR:OG1	1:R:381:TYR:HD2	1.87	0.55
1:G:117:SER:HA	1:G:452:GLY:O	2.06	0.55
1:J:195:ASP:OD2	1:J:208:LYS:NZ	2.39	0.55
1:K:497:THR:OG1	1:7:381:TYR:HD2	1.88	0.55
1:L:499:GLY:CA	1:L:503:ASN:HD21	2.10	0.55
1:M:177:VAL:HG22	1:M:485:VAL:HG12	1.88	0.55
1:T:81:ASP:OD1	1:T:82:ARG:N	2.38	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:U:313:GLN:OE1	1:U:325:THR:OG1	2.17	0.55
1:X:177:VAL:HG22	1:X:485:VAL:HG12	1.88	0.55
1:a:177:VAL:HG22	1:a:485:VAL:HG12	1.88	0.55
1:g:81:ASP:OD1	1:g:82:ARG:N	2.38	0.55
1:g:117:SER:HA	1:g:452:GLY:O	2.06	0.55
1:n:497:THR:OG1	1:r:381:TYR:HD2	1.87	0.55
1:o:117:SER:HA	1:o:452:GLY:O	2.06	0.55
1:q:177:VAL:HG22	1:q:485:VAL:HG12	1.88	0.55
1:v:177:VAL:HG22	1:v:485:VAL:HG12	1.88	0.55
1:v:195:ASP:OD2	1:v:208:LYS:NZ	2.39	0.55
1:y:177:VAL:HG22	1:y:485:VAL:HG12	1.88	0.55
1:3:447:ILE:HG22	1:3:472:PRO:HG3	1.88	0.55
1:4:117:SER:HA	1:4:452:GLY:O	2.06	0.55
1:7:447:ILE:HG22	1:7:472:PRO:HG3	1.88	0.55
1:I:195:ASP:OD2	1:I:208:LYS:NZ	2.39	0.55
1:M:447:ILE:HG22	1:M:472:PRO:HG3	1.88	0.55
1:O:152:LYS:NZ	1:O:169:ASN:OD1	2.29	0.55
1:X:447:ILE:HG22	1:X:472:PRO:HG3	1.88	0.55
1:b:177:VAL:HG22	1:b:485:VAL:HG12	1.88	0.55
1:c:81:ASP:OD1	1:c:82:ARG:N	2.39	0.55
1:d:177:VAL:HG22	1:d:485:VAL:HG12	1.88	0.55
1:e:177:VAL:HG22	1:e:485:VAL:HG12	1.88	0.55
1:f:81:ASP:OD1	1:f:82:ARG:N	2.38	0.55
1:h:117:SER:HA	1:h:452:GLY:O	2.06	0.55
1:o:447:ILE:HG22	1:o:472:PRO:HG3	1.88	0.55
1:s:501:GLY:C	1:s:503:ASN:H	2.13	0.55
1:z:501:GLY:C	1:z:503:ASN:H	2.13	0.55
1:1:177:VAL:HG22	1:1:485:VAL:HG12	1.88	0.55
1:D:447:ILE:HG22	1:D:472:PRO:HG3	1.88	0.55
1:Q:108:THR:HG22	1:Q:210:TYR:O	2.07	0.55
1:V:108:THR:HG22	1:V:210:TYR:O	2.07	0.55
1:i:117:SER:HA	1:i:452:GLY:O	2.06	0.55
1:k:501:GLY:C	1:k:503:ASN:H	2.13	0.55
1:p:117:SER:HA	1:p:452:GLY:O	2.06	0.55
1:r:117:SER:HA	1:r:452:GLY:O	2.06	0.55
1:r:195:ASP:OD2	1:r:208:LYS:NZ	2.38	0.55
1:w:108:THR:HG22	1:w:210:TYR:O	2.07	0.55
1:x:117:SER:HA	1:x:452:GLY:O	2.06	0.55
1:z:195:ASP:OD2	1:z:208:LYS:NZ	2.39	0.55
1:2:117:SER:HA	1:2:452:GLY:O	2.06	0.55
1:6:117:SER:HA	1:6:452:GLY:O	2.06	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:497:THR:OG1	1:B:381:TYR:HD2	1.87	0.55
1:C:108:THR:HG22	1:C:210:TYR:O	2.07	0.55
1:C:117:SER:HA	1:C:452:GLY:O	2.06	0.55
1:I:108:THR:HG22	1:I:210:TYR:O	2.07	0.55
1:K:81:ASP:OD1	1:K:82:ARG:N	2.39	0.55
1:f:499:GLY:CA	1:f:503:ASN:HD21	2.09	0.55
1:s:195:ASP:OD2	1:s:208:LYS:NZ	2.39	0.55
1:t:81:ASP:OD1	1:t:82:ARG:N	2.39	0.55
1:t:108:THR:HG22	1:t:210:TYR:O	2.07	0.55
1:u:117:SER:HA	1:u:452:GLY:O	2.06	0.55
1:y:195:ASP:OD2	1:y:208:LYS:NZ	2.39	0.55
1:2:195:ASP:OD2	1:2:208:LYS:NZ	2.39	0.55
1:7:117:SER:HA	1:7:452:GLY:O	2.06	0.55
1:8:108:THR:HG22	1:8:210:TYR:O	2.07	0.55
1:G:108:THR:HG22	1:G:210:TYR:O	2.07	0.55
1:G:313:GLN:OE1	1:G:325:THR:OG1	2.17	0.55
1:N:177:VAL:HG22	1:N:485:VAL:HG12	1.88	0.55
1:V:117:SER:HA	1:V:452:GLY:O	2.06	0.55
1:Z:108:THR:HG22	1:Z:210:TYR:O	2.07	0.55
1:k:117:SER:HA	1:k:452:GLY:O	2.06	0.55
1:k:177:VAL:HG22	1:k:485:VAL:HG12	1.88	0.55
1:l:108:THR:HG22	1:l:210:TYR:O	2.07	0.55
1:m:108:THR:HG22	1:m:210:TYR:O	2.07	0.55
1:u:152:LYS:NZ	1:u:169:ASN:OD1	2.29	0.55
1:v:501:GLY:C	1:v:503:ASN:H	2.13	0.55
1:w:81:ASP:OD1	1:w:82:ARG:N	2.39	0.55
1:y:501:GLY:C	1:y:503:ASN:H	2.13	0.55
1:6:177:VAL:HG22	1:6:485:VAL:HG12	1.88	0.55
1:8:177:VAL:HG22	1:8:485:VAL:HG12	1.88	0.55
1:A:108:THR:HG22	1:A:210:TYR:O	2.07	0.55
1:B:108:THR:HG22	1:B:210:TYR:O	2.07	0.55
1:C:501:GLY:C	1:C:503:ASN:H	2.13	0.55
1:E:108:THR:HG22	1:E:210:TYR:O	2.07	0.55
1:H:108:THR:HG22	1:H:210:TYR:O	2.07	0.55
1:K:195:ASP:OD2	1:K:208:LYS:NZ	2.39	0.55
1:K:313:GLN:OE1	1:K:325:THR:OG1	2.17	0.55
1:N:152:LYS:NZ	1:N:169:ASN:OD1	2.29	0.55
1:O:108:THR:HG22	1:O:210:TYR:O	2.07	0.55
1:T:195:ASP:OD2	1:T:208:LYS:NZ	2.39	0.55
1:V:501:GLY:C	1:V:503:ASN:H	2.13	0.55
1:W:447:ILE:HG22	1:W:472:PRO:HG3	1.88	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Y:177:VAL:HG22	1:Y:485:VAL:HG12	1.88	0.55
1:n:108:THR:HG22	1:n:210:TYR:O	2.07	0.55
1:n:501:GLY:C	1:n:503:ASN:H	2.13	0.55
1:o:152:LYS:NZ	1:o:169:ASN:OD1	2.29	0.55
1:s:117:SER:HA	1:s:452:GLY:O	2.06	0.55
1:u:108:THR:HG22	1:u:210:TYR:O	2.07	0.55
1:2:177:VAL:HG22	1:2:485:VAL:HG12	1.88	0.55
1:3:108:THR:HG22	1:3:210:TYR:O	2.07	0.55
1:3:501:GLY:C	1:3:503:ASN:H	2.13	0.55
1:4:108:THR:HG22	1:4:210:TYR:O	2.07	0.55
1:5:117:SER:HA	1:5:452:GLY:O	2.06	0.55
1:6:81:ASP:OD1	1:6:82:ARG:N	2.38	0.55
1:A:447:ILE:HG22	1:A:472:PRO:HG3	1.88	0.55
1:C:447:ILE:HG22	1:C:472:PRO:HG3	1.88	0.55
1:E:447:ILE:HG22	1:E:472:PRO:HG3	1.88	0.55
1:F:108:THR:HG22	1:F:210:TYR:O	2.07	0.55
1:F:447:ILE:HG22	1:F:472:PRO:HG3	1.88	0.55
1:G:63:ARG:HG3	1:G:197:LEU:HD23	1.89	0.55
1:G:447:ILE:HG22	1:G:472:PRO:HG3	1.88	0.55
1:K:70:SER:O	1:K:504:ARG:NH2	2.40	0.55
1:L:70:SER:O	1:L:504:ARG:NH2	2.40	0.55
1:P:108:THR:HG22	1:P:210:TYR:O	2.07	0.55
1:P:152:LYS:NZ	1:P:169:ASN:OD1	2.29	0.55
1:R:108:THR:HG22	1:R:210:TYR:O	2.07	0.55
1:T:70:SER:O	1:T:504:ARG:NH2	2.40	0.55
1:U:70:SER:O	1:U:504:ARG:NH2	2.40	0.55
1:V:447:ILE:HG22	1:V:472:PRO:HG3	1.88	0.55
1:X:381:TYR:HD2	1:Y:497:THR:OG1	1.87	0.55
1:e:70:SER:O	1:e:504:ARG:NH2	2.40	0.55
1:i:70:SER:O	1:i:504:ARG:NH2	2.40	0.55
1:j:117:SER:HA	1:j:452:GLY:O	2.06	0.55
1:j:152:LYS:NZ	1:j:169:ASN:OD1	2.29	0.55
1:k:81:ASP:OD1	1:k:82:ARG:N	2.38	0.55
1:l:177:VAL:HG22	1:l:485:VAL:HG12	1.88	0.55
1:m:70:SER:O	1:m:504:ARG:NH2	2.40	0.55
1:n:177:VAL:HG22	1:n:485:VAL:HG12	1.88	0.55
1:t:497:THR:OG1	1:y:381:TYR:HD2	1.87	0.55
1:x:108:THR:HG22	1:x:210:TYR:O	2.07	0.55
1:x:195:ASP:OD2	1:x:208:LYS:NZ	2.39	0.55
1:z:117:SER:HA	1:z:452:GLY:O	2.06	0.55
1:2:70:SER:O	1:2:504:ARG:NH2	2.40	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:177:VAL:HG22	1:B:485:VAL:HG12	1.88	0.54
1:C:70:SER:O	1:C:504:ARG:NH2	2.40	0.54
1:E:63:ARG:HG3	1:E:197:LEU:HD23	1.89	0.54
1:F:63:ARG:HG3	1:F:197:LEU:HD23	1.89	0.54
1:H:152:LYS:NZ	1:H:169:ASN:OD1	2.29	0.54
1:K:501:GLY:C	1:K:503:ASN:H	2.13	0.54
1:O:177:VAL:HG22	1:O:485:VAL:HG12	1.88	0.54
1:P:70:SER:O	1:P:504:ARG:NH2	2.40	0.54
1:R:501:GLY:C	1:R:503:ASN:H	2.13	0.54
1:V:70:SER:O	1:V:504:ARG:NH2	2.40	0.54
1:b:70:SER:O	1:b:504:ARG:NH2	2.40	0.54
1:b:108:THR:HG22	1:b:210:TYR:O	2.07	0.54
1:b:117:SER:HA	1:b:452:GLY:O	2.06	0.54
1:e:108:THR:HG22	1:e:210:TYR:O	2.07	0.54
1:f:497:THR:OG1	1:z:381:TYR:HD2	1.87	0.54
1:k:63:ARG:HG3	1:k:197:LEU:HD23	1.89	0.54
1:p:63:ARG:HG3	1:p:197:LEU:HD23	1.90	0.54
1:p:70:SER:O	1:p:504:ARG:NH2	2.40	0.54
1:p:108:THR:HG22	1:p:210:TYR:O	2.07	0.54
1:r:70:SER:O	1:r:504:ARG:NH2	2.40	0.54
1:u:195:ASP:OD2	1:u:208:LYS:NZ	2.39	0.54
1:w:70:SER:O	1:w:504:ARG:NH2	2.40	0.54
1:2:108:THR:HG22	1:2:210:TYR:O	2.07	0.54
1:3:70:SER:O	1:3:504:ARG:NH2	2.40	0.54
1:3:177:VAL:HG22	1:3:485:VAL:HG12	1.88	0.54
1:4:70:SER:O	1:4:504:ARG:NH2	2.40	0.54
1:5:152:LYS:NZ	1:5:169:ASN:OD1	2.29	0.54
1:6:63:ARG:HG3	1:6:197:LEU:HD23	1.89	0.54
1:6:501:GLY:C	1:6:503:ASN:H	2.13	0.54
1:7:70:SER:O	1:7:504:ARG:NH2	2.40	0.54
1:8:117:SER:HA	1:8:452:GLY:O	2.06	0.54
1:A:63:ARG:HG3	1:A:197:LEU:HD23	1.89	0.54
1:B:447:ILE:HG22	1:B:472:PRO:HG3	1.88	0.54
1:B:501:GLY:C	1:B:503:ASN:H	2.13	0.54
1:H:70:SER:O	1:H:504:ARG:NH2	2.40	0.54
1:I:70:SER:O	1:I:504:ARG:NH2	2.40	0.54
1:J:70:SER:O	1:J:504:ARG:NH2	2.40	0.54
1:L:356:PHE:HB2	1:L:405:THR:HG22	1.90	0.54
1:L:447:ILE:HG22	1:L:472:PRO:HG3	1.88	0.54
1:O:447:ILE:HG22	1:O:472:PRO:HG3	1.88	0.54
1:P:177:VAL:HG22	1:P:485:VAL:HG12	1.88	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:R:356:PHE:HB2	1:R:405:THR:HG22	1.90	0.54
1:U:356:PHE:HB2	1:U:405:THR:HG22	1.90	0.54
1:Y:152:LYS:NZ	1:Y:169:ASN:OD1	2.29	0.54
1:Z:177:VAL:HG22	1:Z:485:VAL:HG12	1.88	0.54
1:Z:447:ILE:HG22	1:Z:472:PRO:HG3	1.88	0.54
1:e:117:SER:HA	1:e:452:GLY:O	2.06	0.54
1:g:63:ARG:HG3	1:g:197:LEU:HD23	1.89	0.54
1:g:70:SER:O	1:g:504:ARG:NH2	2.41	0.54
1:g:108:THR:HG22	1:g:210:TYR:O	2.07	0.54
1:i:356:PHE:HB2	1:i:405:THR:HG22	1.90	0.54
1:m:177:VAL:HG22	1:m:485:VAL:HG12	1.88	0.54
1:m:356:PHE:HB2	1:m:405:THR:HG22	1.90	0.54
1:n:70:SER:O	1:n:504:ARG:NH2	2.40	0.54
1:n:117:SER:HA	1:n:452:GLY:O	2.06	0.54
1:p:195:ASP:OD2	1:p:208:LYS:NZ	2.39	0.54
1:r:108:THR:HG22	1:r:210:TYR:O	2.07	0.54
1:r:177:VAL:HG22	1:r:485:VAL:HG12	1.88	0.54
1:s:177:VAL:HG22	1:s:485:VAL:HG12	1.88	0.54
1:t:70:SER:O	1:t:504:ARG:NH2	2.40	0.54
1:u:70:SER:O	1:u:504:ARG:NH2	2.40	0.54
1:x:70:SER:O	1:x:504:ARG:NH2	2.40	0.54
1:1:70:SER:O	1:1:504:ARG:NH2	2.40	0.54
1:2:152:LYS:NZ	1:2:169:ASN:OD1	2.29	0.54
1:4:356:PHE:HB2	1:4:405:THR:HG22	1.90	0.54
1:7:356:PHE:HB2	1:7:405:THR:HG22	1.90	0.54
1:A:70:SER:O	1:A:504:ARG:NH2	2.40	0.54
1:B:356:PHE:HB2	1:B:405:THR:HG22	1.90	0.54
1:K:356:PHE:HB2	1:K:405:THR:HG22	1.90	0.54
1:M:70:SER:O	1:M:504:ARG:NH2	2.40	0.54
1:M:381:TYR:HD2	1:N:497:THR:OG1	1.87	0.54
1:Q:70:SER:O	1:Q:504:ARG:NH2	2.41	0.54
1:S:70:SER:O	1:S:504:ARG:NH2	2.40	0.54
1:T:313:GLN:OE1	1:T:325:THR:OG1	2.17	0.54
1:T:501:GLY:C	1:T:503:ASN:H	2.13	0.54
1:X:70:SER:O	1:X:504:ARG:NH2	2.41	0.54
1:Y:70:SER:O	1:Y:504:ARG:NH2	2.40	0.54
1:a:447:ILE:HG22	1:a:472:PRO:HG3	1.88	0.54
1:b:356:PHE:HB2	1:b:405:THR:HG22	1.90	0.54
1:e:356:PHE:HB2	1:e:405:THR:HG22	1.90	0.54
1:h:152:LYS:NZ	1:h:169:ASN:OD1	2.29	0.54
1:j:195:ASP:OD2	1:j:208:LYS:NZ	2.39	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:k:108:THR:HG22	1:k:210:TYR:O	2.07	0.54
1:l:117:SER:HA	1:l:452:GLY:O	2.06	0.54
1:q:70:SER:O	1:q:504:ARG:NH2	2.40	0.54
1:q:195:ASP:OD2	1:q:208:LYS:NZ	2.38	0.54
1:r:152:LYS:NZ	1:r:169:ASN:OD1	2.29	0.54
1:v:381:TYR:HD2	1:w:497:THR:OG1	1.87	0.54
1:x:152:LYS:NZ	1:x:169:ASN:OD1	2.29	0.54
1:z:177:VAL:HG22	1:z:485:VAL:HG12	1.88	0.54
1:A:118:TRP:HB2	1:A:449:TYR:O	2.08	0.54
1:F:70:SER:O	1:F:504:ARG:NH2	2.40	0.54
1:F:118:TRP:HB2	1:F:449:TYR:O	2.08	0.54
1:F:356:PHE:HB2	1:F:405:THR:HG22	1.90	0.54
1:H:177:VAL:HG22	1:H:485:VAL:HG12	1.88	0.54
1:I:177:VAL:HG22	1:I:485:VAL:HG12	1.88	0.54
1:I:447:ILE:HG22	1:I:472:PRO:HG3	1.88	0.54
1:K:118:TRP:HB2	1:K:449:TYR:O	2.08	0.54
1:N:70:SER:O	1:N:504:ARG:NH2	2.40	0.54
1:Q:177:VAL:HG22	1:Q:485:VAL:HG12	1.88	0.54
1:R:177:VAL:HG22	1:R:485:VAL:HG12	1.88	0.54
1:R:447:ILE:HG22	1:R:472:PRO:HG3	1.88	0.54
1:T:356:PHE:HB2	1:T:405:THR:HG22	1.90	0.54
1:U:447:ILE:HG22	1:U:472:PRO:HG3	1.88	0.54
1:V:177:VAL:HG22	1:V:485:VAL:HG12	1.88	0.54
1:c:356:PHE:HB2	1:c:405:THR:HG22	1.90	0.54
1:f:63:ARG:HG3	1:f:197:LEU:HD23	1.89	0.54
1:f:356:PHE:HB2	1:f:405:THR:HG22	1.90	0.54
1:g:195:ASP:OD2	1:g:208:LYS:NZ	2.39	0.54
1:j:313:GLN:OE1	1:j:325:THR:OG1	2.17	0.54
1:m:63:ARG:HG3	1:m:197:LEU:HD23	1.89	0.54
1:v:356:PHE:HB2	1:v:405:THR:HG22	1.90	0.54
1:y:356:PHE:HB2	1:y:405:THR:HG22	1.90	0.54
1:z:108:THR:HG22	1:z:210:TYR:O	2.07	0.54
1:1:195:ASP:OD2	1:1:208:LYS:NZ	2.39	0.54
1:3:117:SER:HA	1:3:452:GLY:O	2.06	0.54
1:4:177:VAL:HG22	1:4:485:VAL:HG12	1.88	0.54
1:5:195:ASP:OD2	1:5:208:LYS:NZ	2.39	0.54
1:6:118:TRP:HB2	1:6:449:TYR:O	2.08	0.54
1:7:63:ARG:HG3	1:7:197:LEU:HD23	1.89	0.54
1:8:499:GLY:CA	1:8:503:ASN:HD21	2.09	0.54
1:A:356:PHE:HB2	1:A:405:THR:HG22	1.90	0.54
1:B:117:SER:HA	1:B:452:GLY:O	2.06	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:108:THR:HG22	1:J:210:TYR:O	2.07	0.54
1:J:177:VAL:HG22	1:J:485:VAL:HG12	1.88	0.54
1:K:108:THR:HG22	1:K:210:TYR:O	2.07	0.54
1:L:108:THR:HG22	1:L:210:TYR:O	2.07	0.54
1:L:177:VAL:HG22	1:L:485:VAL:HG12	1.88	0.54
1:N:108:THR:HG22	1:N:210:TYR:O	2.07	0.54
1:Q:63:ARG:HG3	1:Q:197:LEU:HD23	1.90	0.54
1:Q:195:ASP:OD2	1:Q:208:LYS:NZ	2.39	0.54
1:Q:447:ILE:HG22	1:Q:472:PRO:HG3	1.88	0.54
1:R:117:SER:HA	1:R:452:GLY:O	2.06	0.54
1:T:118:TRP:HB2	1:T:449:TYR:O	2.08	0.54
1:Z:70:SER:O	1:Z:504:ARG:NH2	2.40	0.54
1:a:70:SER:O	1:a:504:ARG:NH2	2.40	0.54
1:a:108:THR:HG22	1:a:210:TYR:O	2.07	0.54
1:c:63:ARG:HG3	1:c:197:LEU:HD23	1.90	0.54
1:c:108:THR:HG22	1:c:210:TYR:O	2.07	0.54
1:c:118:TRP:HB2	1:c:449:TYR:O	2.08	0.54
1:c:497:THR:OG1	1:s:381:TYR:HD2	1.87	0.54
1:d:70:SER:O	1:d:504:ARG:NH2	2.40	0.54
1:d:447:ILE:HG22	1:d:472:PRO:HG3	1.88	0.54
1:f:118:TRP:HB2	1:f:449:TYR:O	2.08	0.54
1:h:63:ARG:HG3	1:h:197:LEU:HD23	1.90	0.54
1:h:108:THR:HG22	1:h:210:TYR:O	2.07	0.54
1:h:313:GLN:OE1	1:h:325:THR:OG1	2.17	0.54
1:i:63:ARG:HG3	1:i:197:LEU:HD23	1.90	0.54
1:j:108:THR:HG22	1:j:210:TYR:O	2.07	0.54
1:k:118:TRP:HB2	1:k:449:TYR:O	2.08	0.54
1:o:63:ARG:HG3	1:o:197:LEU:HD23	1.90	0.54
1:o:70:SER:O	1:o:504:ARG:NH2	2.41	0.54
1:o:108:THR:HG22	1:o:210:TYR:O	2.07	0.54
1:o:356:PHE:HB2	1:o:405:THR:HG22	1.90	0.54
1:s:70:SER:O	1:s:504:ARG:NH2	2.40	0.54
1:s:108:THR:HG22	1:s:210:TYR:O	2.07	0.54
1:s:152:LYS:NZ	1:s:169:ASN:OD1	2.29	0.54
1:z:70:SER:O	1:z:504:ARG:NH2	2.40	0.54
1:3:63:ARG:HG3	1:3:197:LEU:HD23	1.89	0.54
1:3:356:PHE:HB2	1:3:405:THR:HG22	1.90	0.54
1:4:63:ARG:HG3	1:4:197:LEU:HD23	1.90	0.54
1:5:70:SER:O	1:5:504:ARG:NH2	2.40	0.54
1:6:70:SER:O	1:6:504:ARG:NH2	2.40	0.54
1:6:108:THR:HG22	1:6:210:TYR:O	2.07	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:118:TRP:HB2	1:C:449:TYR:O	2.08	0.54
1:C:177:VAL:HG22	1:C:485:VAL:HG12	1.88	0.54
1:I:63:ARG:HG3	1:I:197:LEU:HD23	1.89	0.54
1:O:70:SER:O	1:O:504:ARG:NH2	2.40	0.54
1:S:177:VAL:HG22	1:S:485:VAL:HG12	1.88	0.54
1:T:108:THR:HG22	1:T:210:TYR:O	2.07	0.54
1:V:118:TRP:HB2	1:V:449:TYR:O	2.08	0.54
1:X:118:TRP:HB2	1:X:449:TYR:O	2.08	0.54
1:d:108:THR:HG22	1:d:210:TYR:O	2.07	0.54
1:f:108:THR:HG22	1:f:210:TYR:O	2.07	0.54
1:g:118:TRP:HB2	1:g:449:TYR:O	2.08	0.54
1:h:70:SER:O	1:h:504:ARG:NH2	2.40	0.54
1:h:356:PHE:HB2	1:h:405:THR:HG22	1.90	0.54
1:i:108:THR:HG22	1:i:210:TYR:O	2.07	0.54
1:j:70:SER:O	1:j:504:ARG:NH2	2.40	0.54
1:k:70:SER:O	1:k:504:ARG:NH2	2.40	0.54
1:m:152:LYS:NZ	1:m:169:ASN:OD1	2.29	0.54
1:n:356:PHE:HB2	1:n:405:THR:HG22	1.90	0.54
1:p:118:TRP:HB2	1:p:449:TYR:O	2.08	0.54
1:r:356:PHE:HB2	1:r:405:THR:HG22	1.90	0.54
1:v:70:SER:O	1:v:504:ARG:NH2	2.40	0.54
1:v:118:TRP:HB2	1:v:449:TYR:O	2.08	0.54
1:w:118:TRP:HB2	1:w:449:TYR:O	2.08	0.54
1:w:447:ILE:O	1:w:561:GLY:HA3	2.08	0.54
1:y:70:SER:O	1:y:504:ARG:NH2	2.40	0.54
1:y:118:TRP:HB2	1:y:449:TYR:O	2.08	0.54
1:1:447:ILE:O	1:1:561:GLY:HA3	2.08	0.54
1:2:356:PHE:HB2	1:2:405:THR:HG22	1.90	0.54
1:2:447:ILE:O	1:2:561:GLY:HA3	2.08	0.54
1:5:108:THR:HG22	1:5:210:TYR:O	2.07	0.54
1:M:118:TRP:HB2	1:M:449:TYR:O	2.08	0.54
1:M:356:PHE:HB2	1:M:405:THR:HG22	1.90	0.54
1:O:118:TRP:HB2	1:O:449:TYR:O	2.08	0.54
1:S:108:THR:HG22	1:S:210:TYR:O	2.07	0.54
1:U:108:THR:HG22	1:U:210:TYR:O	2.07	0.54
1:U:177:VAL:HG22	1:U:485:VAL:HG12	1.88	0.54
1:Y:108:THR:HG22	1:Y:210:TYR:O	2.07	0.54
1:Z:118:TRP:HB2	1:Z:449:TYR:O	2.08	0.54
1:a:152:LYS:NZ	1:a:169:ASN:OD1	2.29	0.54
1:j:447:ILE:O	1:j:561:GLY:HA3	2.08	0.54
1:n:63:ARG:HG3	1:n:197:LEU:HD23	1.90	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:r:447:ILE:O	1:r:561:GLY:HA3	2.08	0.54
1:t:447:ILE:O	1:t:561:GLY:HA3	2.08	0.54
1:u:356:PHE:HB2	1:u:405:THR:HG22	1.90	0.54
1:u:447:ILE:O	1:u:561:GLY:HA3	2.08	0.54
1:w:177:VAL:HG22	1:w:485:VAL:HG12	1.88	0.54
1:x:356:PHE:HB2	1:x:405:THR:HG22	1.90	0.54
1:2:118:TRP:HB2	1:2:449:TYR:O	2.08	0.54
1:5:177:VAL:HG22	1:5:485:VAL:HG12	1.88	0.54
1:5:447:ILE:O	1:5:561:GLY:HA3	2.08	0.54
1:7:108:THR:HG22	1:7:210:TYR:O	2.07	0.54
1:G:177:VAL:HG22	1:G:485:VAL:HG12	1.88	0.54
1:W:356:PHE:HB2	1:W:405:THR:HG22	1.90	0.54
1:X:356:PHE:HB2	1:X:405:THR:HG22	1.90	0.54
1:Y:195:ASP:OD2	1:Y:208:LYS:NZ	2.39	0.54
1:Z:447:ILE:O	1:Z:561:GLY:HA3	2.08	0.54
1:h:447:ILE:O	1:h:561:GLY:HA3	2.08	0.54
1:j:177:VAL:HG22	1:j:485:VAL:HG12	1.88	0.54
1:l:499:GLY:CA	1:l:503:ASN:HD21	2.09	0.54
1:q:447:ILE:O	1:q:561:GLY:HA3	2.08	0.54
1:r:118:TRP:HB2	1:r:449:TYR:O	2.08	0.54
1:v:108:THR:HG22	1:v:210:TYR:O	2.07	0.54
1:x:447:ILE:O	1:x:561:GLY:HA3	2.08	0.54
1:y:108:THR:HG22	1:y:210:TYR:O	2.07	0.54
1:1:118:TRP:HB2	1:1:449:TYR:O	2.08	0.54
1:3:118:TRP:HB2	1:3:449:TYR:O	2.08	0.54
1:5:313:GLN:OE1	1:5:325:THR:OG1	2.17	0.54
1:5:356:PHE:HB2	1:5:405:THR:HG22	1.90	0.54
1:D:356:PHE:HB2	1:D:405:THR:HG22	1.90	0.54
1:E:70:SER:O	1:E:504:ARG:NH2	2.40	0.54
1:J:63:ARG:HG3	1:J:197:LEU:HD23	1.89	0.54
1:N:547:LEU:HD21	1:O:530:ASN:HD22	1.73	0.54
1:O:447:ILE:O	1:O:561:GLY:HA3	2.08	0.54
1:S:63:ARG:HG3	1:S:197:LEU:HD23	1.89	0.54
1:W:108:THR:HG22	1:W:210:TYR:O	2.07	0.54
1:Y:547:LEU:HD21	1:Z:530:ASN:HD22	1.73	0.54
1:d:152:LYS:NZ	1:d:169:ASN:OD1	2.29	0.54
1:h:118:TRP:HB2	1:h:449:TYR:O	2.08	0.54
1:m:447:ILE:O	1:m:561:GLY:HA3	2.08	0.54
1:n:118:TRP:HB2	1:n:449:TYR:O	2.08	0.54
1:o:118:TRP:HB2	1:o:449:TYR:O	2.08	0.54
1:o:313:GLN:OE1	1:o:325:THR:OG1	2.17	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:o:447:ILE:O	1:o:561:GLY:HA3	2.08	0.54
1:q:118:TRP:HB2	1:q:449:TYR:O	2.08	0.54
1:t:118:TRP:HB2	1:t:449:TYR:O	2.08	0.54
1:u:177:VAL:HG22	1:u:485:VAL:HG12	1.88	0.54
1:x:177:VAL:HG22	1:x:485:VAL:HG12	1.88	0.54
1:z:152:LYS:NZ	1:z:169:ASN:OD1	2.29	0.54
1:2:63:ARG:HG3	1:2:197:LEU:HD23	1.89	0.54
1:4:118:TRP:HB2	1:4:449:TYR:O	2.08	0.54
1:4:152:LYS:NZ	1:4:169:ASN:OD1	2.29	0.54
1:4:447:ILE:O	1:4:561:GLY:HA3	2.08	0.54
1:A:371:GLN:HB2	1:A:407:TRP:CZ3	2.43	0.54
1:A:447:ILE:O	1:A:561:GLY:HA3	2.08	0.54
1:D:70:SER:O	1:D:504:ARG:NH2	2.40	0.54
1:D:108:THR:HG22	1:D:210:TYR:O	2.07	0.54
1:E:177:VAL:HG22	1:E:485:VAL:HG12	1.88	0.54
1:E:447:ILE:O	1:E:561:GLY:HA3	2.08	0.54
1:E:530:ASN:HD22	1:P:547:LEU:HD21	1.73	0.54
1:G:70:SER:O	1:G:504:ARG:NH2	2.40	0.54
1:G:447:ILE:O	1:G:561:GLY:HA3	2.08	0.54
1:J:118:TRP:HB2	1:J:449:TYR:O	2.08	0.54
1:L:447:ILE:O	1:L:561:GLY:HA3	2.08	0.54
1:M:447:ILE:O	1:M:561:GLY:HA3	2.08	0.54
1:R:63:ARG:HG3	1:R:197:LEU:HD23	1.89	0.54
1:S:118:TRP:HB2	1:S:449:TYR:O	2.08	0.54
1:T:447:ILE:O	1:T:561:GLY:HA3	2.08	0.54
1:W:70:SER:O	1:W:504:ARG:NH2	2.40	0.54
1:X:447:ILE:O	1:X:561:GLY:HA3	2.08	0.54
1:a:371:GLN:HB2	1:a:407:TRP:CZ3	2.43	0.54
1:a:530:ASN:HD22	1:3:547:LEU:HD21	1.73	0.54
1:c:195:ASP:OD2	1:c:208:LYS:NZ	2.39	0.54
1:d:371:GLN:HB2	1:d:407:TRP:CZ3	2.43	0.54
1:j:356:PHE:HB2	1:j:405:THR:HG22	1.90	0.54
1:k:152:LYS:NZ	1:k:169:ASN:OD1	2.29	0.54
1:l:118:TRP:HB2	1:l:449:TYR:O	2.08	0.54
1:q:63:ARG:HG3	1:q:197:LEU:HD23	1.89	0.54
1:r:63:ARG:HG3	1:r:197:LEU:HD23	1.89	0.54
1:1:63:ARG:HG3	1:1:197:LEU:HD23	1.89	0.54
1:8:118:TRP:HB2	1:8:449:TYR:O	2.08	0.54
1:8:195:ASP:OD2	1:8:208:LYS:NZ	2.39	0.54
1:8:371:GLN:HB2	1:8:407:TRP:CZ3	2.43	0.54
1:B:63:ARG:HG3	1:B:197:LEU:HD23	1.90	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:118:TRP:HB2	1:D:449:TYR:O	2.08	0.53
1:E:547:LEU:HD21	1:P:530:ASN:HD22	1.74	0.53
1:F:371:GLN:HB2	1:F:407:TRP:CZ3	2.43	0.53
1:F:447:ILE:O	1:F:561:GLY:HA3	2.08	0.53
1:G:530:ASN:HD22	1:H:547:LEU:HD21	1.73	0.53
1:G:547:LEU:HD21	1:H:530:ASN:HD22	1.74	0.53
1:H:447:ILE:O	1:H:561:GLY:HA3	2.08	0.53
1:K:63:ARG:HG3	1:K:197:LEU:HD23	1.90	0.53
1:K:371:GLN:HB2	1:K:407:TRP:CZ3	2.44	0.53
1:N:371:GLN:HB2	1:N:407:TRP:CZ3	2.43	0.53
1:P:447:ILE:O	1:P:561:GLY:HA3	2.08	0.53
1:R:70:SER:O	1:R:504:ARG:NH2	2.40	0.53
1:T:371:GLN:HB2	1:T:407:TRP:CZ3	2.43	0.53
1:U:447:ILE:O	1:U:561:GLY:HA3	2.08	0.53
1:a:447:ILE:O	1:a:561:GLY:HA3	2.08	0.53
1:a:547:LEU:HD21	1:3:530:ASN:HD22	1.73	0.53
1:d:118:TRP:HB2	1:d:449:TYR:O	2.08	0.53
1:d:447:ILE:O	1:d:561:GLY:HA3	2.08	0.53
1:e:63:ARG:HG3	1:e:197:LEU:HD23	1.90	0.53
1:h:371:GLN:HB2	1:h:407:TRP:CZ3	2.43	0.53
1:j:547:LEU:HD21	1:w:530:ASN:HD22	1.73	0.53
1:l:371:GLN:HB2	1:l:407:TRP:CZ3	2.43	0.53
1:m:118:TRP:HB2	1:m:449:TYR:O	2.08	0.53
1:o:371:GLN:HB2	1:o:407:TRP:CZ3	2.43	0.53
1:s:371:GLN:HB2	1:s:407:TRP:CZ3	2.44	0.53
1:s:447:ILE:O	1:s:561:GLY:HA3	2.08	0.53
1:t:177:VAL:HG22	1:t:485:VAL:HG12	1.88	0.53
1:t:530:ASN:HD22	1:5:547:LEU:HD21	1.73	0.53
1:z:371:GLN:HB2	1:z:407:TRP:CZ3	2.43	0.53
1:z:447:ILE:O	1:z:561:GLY:HA3	2.08	0.53
1:1:371:GLN:HB2	1:1:407:TRP:CZ3	2.43	0.53
1:8:356:PHE:HB2	1:8:405:THR:HG22	1.90	0.53
1:B:70:SER:O	1:B:504:ARG:NH2	2.40	0.53
1:G:356:PHE:HB2	1:G:405:THR:HG22	1.90	0.53
1:J:447:ILE:O	1:J:561:GLY:HA3	2.08	0.53
1:K:447:ILE:O	1:K:561:GLY:HA3	2.08	0.53
1:L:371:GLN:HB2	1:L:407:TRP:CZ3	2.43	0.53
1:N:530:ASN:HD22	1:O:547:LEU:HD21	1.74	0.53
1:R:497:THR:OG1	1:V:381:TYR:HD2	1.87	0.53
1:T:499:GLY:CA	1:T:503:ASN:HD21	2.09	0.53
1:W:118:TRP:HB2	1:W:449:TYR:O	2.08	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:W:371:GLN:HB2	1:W:407:TRP:CZ3	2.43	0.53
1:X:108:THR:HG22	1:X:210:TYR:O	2.07	0.53
1:Y:371:GLN:HB2	1:Y:407:TRP:CZ3	2.43	0.53
1:a:118:TRP:HB2	1:a:449:TYR:O	2.08	0.53
1:d:63:ARG:HG3	1:d:197:LEU:HD23	1.89	0.53
1:d:530:ASN:HD22	1:n:547:LEU:HD21	1.73	0.53
1:g:371:GLN:HB2	1:g:407:TRP:CZ3	2.43	0.53
1:g:547:LEU:HD21	1:z:530:ASN:HD22	1.73	0.53
1:i:118:TRP:HB2	1:i:449:TYR:O	2.08	0.53
1:i:447:ILE:O	1:i:561:GLY:HA3	2.08	0.53
1:l:195:ASP:OD2	1:l:208:LYS:NZ	2.39	0.53
1:l:356:PHE:HB2	1:l:405:THR:HG22	1.90	0.53
1:m:371:GLN:HB2	1:m:407:TRP:CZ3	2.44	0.53
1:q:371:GLN:HB2	1:q:407:TRP:CZ3	2.43	0.53
1:q:530:ASN:HD22	1:x:547:LEU:HD21	1.73	0.53
1:u:63:ARG:HG3	1:u:197:LEU:HD23	1.90	0.53
1:v:371:GLN:HB2	1:v:407:TRP:CZ3	2.43	0.53
1:x:63:ARG:HG3	1:x:197:LEU:HD23	1.89	0.53
1:y:371:GLN:HB2	1:y:407:TRP:CZ3	2.43	0.53
1:z:356:PHE:HB2	1:z:405:THR:HG22	1.90	0.53
1:1:108:THR:HG22	1:1:210:TYR:O	2.07	0.53
1:7:118:TRP:HB2	1:7:449:TYR:O	2.08	0.53
1:D:371:GLN:HB2	1:D:407:TRP:CZ3	2.43	0.53
1:S:447:ILE:O	1:S:561:GLY:HA3	2.08	0.53
1:T:63:ARG:HG3	1:T:197:LEU:HD23	1.90	0.53
1:U:371:GLN:HB2	1:U:407:TRP:CZ3	2.44	0.53
1:Y:530:ASN:HD22	1:Z:547:LEU:HD21	1.74	0.53
1:Z:63:ARG:HG3	1:Z:197:LEU:HD23	1.89	0.53
1:a:63:ARG:HG3	1:a:197:LEU:HD23	1.89	0.53
1:b:63:ARG:HG3	1:b:197:LEU:HD23	1.90	0.53
1:b:371:GLN:HB2	1:b:407:TRP:CZ3	2.43	0.53
1:b:530:ASN:HD22	1:c:547:LEU:HD21	1.73	0.53
1:c:70:SER:O	1:c:504:ARG:NH2	2.40	0.53
1:e:371:GLN:HB2	1:e:407:TRP:CZ3	2.43	0.53
1:f:195:ASP:OD2	1:f:208:LYS:NZ	2.39	0.53
1:j:63:ARG:HG3	1:j:197:LEU:HD23	1.89	0.53
1:l:70:SER:O	1:l:504:ARG:NH2	2.40	0.53
1:p:371:GLN:HB2	1:p:407:TRP:CZ3	2.44	0.53
1:q:108:THR:HG22	1:q:210:TYR:O	2.07	0.53
1:s:118:TRP:HB2	1:s:449:TYR:O	2.08	0.53
1:t:371:GLN:HB2	1:t:407:TRP:CZ3	2.43	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:u:547:LEU:HD21	1:l:530:ASN:HD22	1.73	0.53
1:v:63:ARG:HG3	1:v:197:LEU:HD23	1.89	0.53
1:v:384:GLY:O	1:v:555:GLU:HG3	2.09	0.53
1:w:371:GLN:HB2	1:w:407:TRP:CZ3	2.43	0.53
1:y:384:GLY:O	1:y:555:GLU:HG3	2.09	0.53
1:4:371:GLN:HB2	1:4:407:TRP:CZ3	2.44	0.53
1:7:447:ILE:O	1:7:561:GLY:HA3	2.08	0.53
1:8:70:SER:O	1:8:504:ARG:NH2	2.40	0.53
1:C:63:ARG:HG3	1:C:197:LEU:HD23	1.89	0.53
1:C:384:GLY:O	1:C:555:GLU:HG3	2.09	0.53
1:E:356:PHE:HB2	1:E:405:THR:HG22	1.90	0.53
1:J:384:GLY:O	1:J:555:GLU:HG3	2.09	0.53
1:M:108:THR:HG22	1:M:210:TYR:O	2.07	0.53
1:O:63:ARG:HG3	1:O:197:LEU:HD23	1.89	0.53
1:O:384:GLY:O	1:O:555:GLU:HG3	2.09	0.53
1:V:384:GLY:O	1:V:555:GLU:HG3	2.09	0.53
1:Y:356:PHE:HB2	1:Y:405:THR:HG22	1.90	0.53
1:Z:384:GLY:O	1:Z:555:GLU:HG3	2.09	0.53
1:b:156:LYS:HD3	1:b:165:THR:HG22	1.91	0.53
1:d:547:LEU:HD21	1:n:530:ASN:HD22	1.73	0.53
1:e:530:ASN:HD22	1:f:547:LEU:HD21	1.73	0.53
1:j:118:TRP:HB2	1:j:449:TYR:O	2.08	0.53
1:p:547:LEU:HD21	1:s:530:ASN:HD22	1.74	0.53
1:s:356:PHE:HB2	1:s:405:THR:HG22	1.90	0.53
1:u:118:TRP:HB2	1:u:449:TYR:O	2.08	0.53
1:u:381:TYR:HD2	1:2:497:THR:OG1	1.90	0.53
1:y:63:ARG:HG3	1:y:197:LEU:HD23	1.89	0.53
1:z:118:TRP:HB2	1:z:449:TYR:O	2.08	0.53
1:5:63:ARG:HG3	1:5:197:LEU:HD23	1.90	0.53
1:6:152:LYS:NZ	1:6:169:ASN:OD1	2.29	0.53
1:7:371:GLN:HB2	1:7:407:TRP:CZ3	2.44	0.53
1:A:384:GLY:O	1:A:555:GLU:HG3	2.09	0.53
1:B:156:LYS:HD3	1:B:165:THR:HG22	1.91	0.53
1:C:447:ILE:O	1:C:561:GLY:HA3	2.08	0.53
1:C:547:LEU:HD21	1:L:530:ASN:HD22	1.74	0.53
1:F:384:GLY:O	1:F:555:GLU:HG3	2.09	0.53
1:H:118:TRP:HB2	1:H:449:TYR:O	2.08	0.53
1:J:530:ASN:HD22	1:K:547:LEU:HD21	1.74	0.53
1:L:384:GLY:O	1:L:555:GLU:HG3	2.09	0.53
1:P:118:TRP:HB2	1:P:449:TYR:O	2.08	0.53
1:S:530:ASN:HD22	1:T:547:LEU:HD21	1.73	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:U:530:ASN:HD22	1:V:547:LEU:HD21	1.74	0.53
1:V:63:ARG:HG3	1:V:197:LEU:HD23	1.90	0.53
1:V:356:PHE:HB2	1:V:405:THR:HG22	1.90	0.53
1:V:447:ILE:O	1:V:561:GLY:HA3	2.08	0.53
1:Y:118:TRP:HB2	1:Y:449:TYR:O	2.08	0.53
1:b:118:TRP:HB2	1:b:449:TYR:O	2.08	0.53
1:b:447:ILE:O	1:b:561:GLY:HA3	2.08	0.53
1:e:156:LYS:HD3	1:e:165:THR:HG22	1.91	0.53
1:e:447:ILE:O	1:e:561:GLY:HA3	2.08	0.53
1:f:70:SER:O	1:f:504:ARG:NH2	2.40	0.53
1:g:384:GLY:O	1:g:555:GLU:HG3	2.09	0.53
1:i:371:GLN:HB2	1:i:407:TRP:CZ3	2.44	0.53
1:k:371:GLN:HB2	1:k:407:TRP:CZ3	2.43	0.53
1:k:499:GLY:CA	1:k:503:ASN:HD21	2.09	0.53
1:n:371:GLN:HB2	1:n:407:TRP:CZ3	2.43	0.53
1:p:384:GLY:O	1:p:555:GLU:HG3	2.09	0.53
1:v:530:ASN:HD22	1:y:547:LEU:HD21	1.73	0.53
1:z:384:GLY:O	1:z:555:GLU:HG3	2.09	0.53
1:4:195:ASP:OD2	1:4:208:LYS:NZ	2.39	0.53
1:5:118:TRP:HB2	1:5:449:TYR:O	2.08	0.53
1:7:547:LEU:HD21	1:8:530:ASN:HD22	1.73	0.53
1:8:447:ILE:O	1:8:561:GLY:HA3	2.08	0.53
1:A:530:ASN:HD22	1:F:547:LEU:HD21	1.74	0.53
1:D:313:GLN:OE1	1:D:325:THR:OG1	2.17	0.53
1:K:152:LYS:NZ	1:K:169:ASN:OD1	2.29	0.53
1:M:371:GLN:HB2	1:M:407:TRP:CZ3	2.43	0.53
1:N:356:PHE:HB2	1:N:405:THR:HG22	1.90	0.53
1:Q:547:LEU:HD21	1:R:530:ASN:HD22	1.73	0.53
1:R:156:LYS:HD3	1:R:165:THR:HG22	1.91	0.53
1:S:384:GLY:O	1:S:555:GLU:HG3	2.09	0.53
1:U:384:GLY:O	1:U:555:GLU:HG3	2.09	0.53
1:Y:447:ILE:O	1:Y:561:GLY:HA3	2.08	0.53
1:d:313:GLN:OE1	1:d:325:THR:OG1	2.17	0.53
1:e:118:TRP:HB2	1:e:449:TYR:O	2.08	0.53
1:g:447:ILE:O	1:g:561:GLY:HA3	2.08	0.53
1:i:547:LEU:HD21	1:l:530:ASN:HD22	1.73	0.53
1:k:447:ILE:O	1:k:561:GLY:HA3	2.08	0.53
1:l:447:ILE:O	1:l:561:GLY:HA3	2.08	0.53
1:t:384:GLY:O	1:t:555:GLU:HG3	2.09	0.53
1:v:547:LEU:HD21	1:y:530:ASN:HD22	1.73	0.53
1:w:384:GLY:O	1:w:555:GLU:HG3	2.09	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:x:118:TRP:HB2	1:x:449:TYR:O	2.08	0.53
1:x:371:GLN:HB2	1:x:407:TRP:CZ3	2.43	0.53
1:3:371:GLN:HB2	1:3:407:TRP:CZ3	2.43	0.53
1:4:384:GLY:O	1:4:555:GLU:HG3	2.09	0.53
1:6:356:PHE:HB2	1:6:405:THR:HG22	1.90	0.53
1:6:371:GLN:HB2	1:6:407:TRP:CZ3	2.44	0.53
1:6:447:ILE:O	1:6:561:GLY:HA3	2.08	0.53
1:6:499:GLY:CA	1:6:503:ASN:HD21	2.09	0.53
1:7:499:GLY:CA	1:7:503:ASN:HD21	2.09	0.53
1:7:530:ASN:HD22	1:8:547:LEU:HD21	1.74	0.53
1:A:156:LYS:HD3	1:A:165:THR:HG22	1.91	0.53
1:A:547:LEU:HD21	1:F:530:ASN:HD22	1.74	0.53
1:B:384:GLY:O	1:B:555:GLU:HG3	2.09	0.53
1:B:530:ASN:HD22	1:I:547:LEU:HD21	1.73	0.53
1:C:530:ASN:HD22	1:L:547:LEU:HD21	1.74	0.53
1:F:156:LYS:HD3	1:F:165:THR:HG22	1.91	0.53
1:M:384:GLY:O	1:M:555:GLU:HG3	2.09	0.53
1:N:118:TRP:HB2	1:N:449:TYR:O	2.08	0.53
1:N:384:GLY:O	1:N:555:GLU:HG3	2.09	0.53
1:N:447:ILE:O	1:N:561:GLY:HA3	2.08	0.53
1:Q:118:TRP:HB2	1:Q:449:TYR:O	2.08	0.53
1:R:384:GLY:O	1:R:555:GLU:HG3	2.09	0.53
1:W:313:GLN:OE1	1:W:325:THR:OG1	2.17	0.53
1:W:530:ASN:HD22	1:X:547:LEU:HD21	1.74	0.53
1:a:356:PHE:HB2	1:a:405:THR:HG22	1.90	0.53
1:b:547:LEU:HD21	1:c:530:ASN:HD22	1.73	0.53
1:d:356:PHE:HB2	1:d:405:THR:HG22	1.90	0.53
1:e:384:GLY:O	1:e:555:GLU:HG3	2.09	0.53
1:h:156:LYS:HD3	1:h:165:THR:HG22	1.91	0.53
1:h:384:GLY:O	1:h:555:GLU:HG3	2.09	0.53
1:i:530:ASN:HD22	1:l:547:LEU:HD21	1.74	0.53
1:k:356:PHE:HB2	1:k:405:THR:HG22	1.90	0.53
1:l:63:ARG:HG3	1:l:197:LEU:HD23	1.89	0.53
1:m:384:GLY:O	1:m:555:GLU:HG3	2.09	0.53
1:n:195:ASP:OD2	1:n:208:LYS:NZ	2.39	0.53
1:n:384:GLY:O	1:n:555:GLU:HG3	2.09	0.53
1:o:384:GLY:O	1:o:555:GLU:HG3	2.09	0.53
1:p:447:ILE:O	1:p:561:GLY:HA3	2.08	0.53
1:q:356:PHE:HB2	1:q:405:THR:HG22	1.90	0.53
1:r:371:GLN:HB2	1:r:407:TRP:CZ3	2.43	0.53
1:s:63:ARG:HG3	1:s:197:LEU:HD23	1.89	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:s:384:GLY:O	1:s:555:GLU:HG3	2.09	0.53
1:t:63:ARG:HG3	1:t:197:LEU:HD23	1.89	0.53
1:u:371:GLN:HB2	1:u:407:TRP:CZ3	2.43	0.53
1:w:63:ARG:HG3	1:w:197:LEU:HD23	1.89	0.53
1:z:63:ARG:HG3	1:z:197:LEU:HD23	1.89	0.53
1:z:497:THR:OG1	1:4:381:TYR:HD2	1.87	0.53
1:2:371:GLN:HB2	1:2:407:TRP:CZ3	2.44	0.53
1:3:195:ASP:OD2	1:3:208:LYS:NZ	2.39	0.53
1:3:384:GLY:O	1:3:555:GLU:HG3	2.09	0.53
1:8:63:ARG:HG3	1:8:197:LEU:HD23	1.89	0.53
1:C:356:PHE:HB2	1:C:405:THR:HG22	1.90	0.53
1:D:63:ARG:HG3	1:D:197:LEU:HD23	1.90	0.53
1:E:371:GLN:HB2	1:E:407:TRP:CZ3	2.43	0.53
1:G:118:TRP:HB2	1:G:449:TYR:O	2.08	0.53
1:H:63:ARG:HG3	1:H:197:LEU:HD23	1.90	0.53
1:H:371:GLN:HB2	1:H:407:TRP:CZ3	2.43	0.53
1:I:384:GLY:O	1:I:555:GLU:HG3	2.09	0.53
1:K:499:GLY:CA	1:K:503:ASN:HD21	2.10	0.53
1:M:156:LYS:HD3	1:M:165:THR:HG22	1.91	0.53
1:O:156:LYS:HD3	1:O:165:THR:HG22	1.91	0.53
1:P:63:ARG:HG3	1:P:197:LEU:HD23	1.90	0.53
1:P:371:GLN:HB2	1:P:407:TRP:CZ3	2.43	0.53
1:T:152:LYS:NZ	1:T:169:ASN:OD1	2.29	0.53
1:W:63:ARG:HG3	1:W:197:LEU:HD23	1.90	0.53
1:X:371:GLN:HB2	1:X:407:TRP:CZ3	2.43	0.53
1:X:384:GLY:O	1:X:555:GLU:HG3	2.09	0.53
1:Y:384:GLY:O	1:Y:555:GLU:HG3	2.09	0.53
1:Z:156:LYS:HD3	1:Z:165:THR:HG22	1.91	0.53
1:b:384:GLY:O	1:b:555:GLU:HG3	2.09	0.53
1:c:152:LYS:NZ	1:c:169:ASN:OD1	2.29	0.53
1:c:371:GLN:HB2	1:c:407:TRP:CZ3	2.43	0.53
1:j:530:ASN:HD22	1:w:547:LEU:HD21	1.74	0.53
1:m:381:TYR:HD2	1:s:497:THR:OG1	1.87	0.53
1:n:152:LYS:NZ	1:n:169:ASN:OD1	2.29	0.53
1:n:447:ILE:O	1:n:561:GLY:HA3	2.08	0.53
1:o:156:LYS:HD3	1:o:165:THR:HG22	1.91	0.53
1:u:537:ARG:HH22	1:1:533:ASN:HD21	1.57	0.53
1:1:356:PHE:HB2	1:1:405:THR:HG22	1.90	0.53
1:D:447:ILE:O	1:D:561:GLY:HA3	2.08	0.53
1:D:530:ASN:HD22	1:M:547:LEU:HD21	1.74	0.53
1:G:371:GLN:HB2	1:G:407:TRP:CZ3	2.43	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:118:TRP:HB2	1:I:449:TYR:O	2.08	0.53
1:J:156:LYS:HD3	1:J:165:THR:HG22	1.91	0.53
1:K:384:GLY:O	1:K:555:GLU:HG3	2.09	0.53
1:M:63:ARG:HG3	1:M:197:LEU:HD23	1.90	0.53
1:Q:384:GLY:O	1:Q:555:GLU:HG3	2.09	0.53
1:R:371:GLN:HB2	1:R:407:TRP:CZ3	2.43	0.53
1:T:384:GLY:O	1:T:555:GLU:HG3	2.09	0.53
1:U:547:LEU:HD21	1:V:530:ASN:HD22	1.74	0.53
1:W:447:ILE:O	1:W:561:GLY:HA3	2.08	0.53
1:X:63:ARG:HG3	1:X:197:LEU:HD23	1.89	0.53
1:Y:63:ARG:HG3	1:Y:197:LEU:HD23	1.90	0.53
1:e:547:LEU:HD21	1:f:530:ASN:HD22	1.73	0.53
1:f:371:GLN:HB2	1:f:407:TRP:CZ3	2.43	0.53
1:g:356:PHE:HB2	1:g:405:THR:HG22	1.90	0.53
1:l:156:LYS:HD3	1:l:165:THR:HG22	1.91	0.53
1:s:156:LYS:HD3	1:s:165:THR:HG22	1.91	0.53
1:t:313:GLN:OE1	1:t:325:THR:OG1	2.17	0.53
1:t:547:LEU:HD21	1:5:530:ASN:HD22	1.74	0.53
1:v:447:ILE:O	1:v:561:GLY:HA3	2.08	0.53
1:x:313:GLN:OE1	1:x:325:THR:OG1	2.17	0.53
1:2:384:GLY:O	1:2:555:GLU:HG3	2.09	0.53
1:3:447:ILE:O	1:3:561:GLY:HA3	2.08	0.53
1:A:82:ARG:HG2	1:A:86:PHE:CD2	2.44	0.53
1:A:283:SER:HB3	1:A:403:GLY:HA2	1.91	0.53
1:B:371:GLN:HB2	1:B:407:TRP:CZ3	2.43	0.53
1:C:156:LYS:HD3	1:C:165:THR:HG22	1.91	0.53
1:M:82:ARG:HG2	1:M:86:PHE:CD2	2.44	0.53
1:P:356:PHE:HB2	1:P:405:THR:HG22	1.90	0.53
1:S:156:LYS:HD3	1:S:165:THR:HG22	1.91	0.53
1:T:82:ARG:HG2	1:T:86:PHE:CD2	2.44	0.53
1:W:384:GLY:O	1:W:555:GLU:HG3	2.09	0.53
1:X:82:ARG:HG2	1:X:86:PHE:CD2	2.44	0.53
1:X:156:LYS:HD3	1:X:165:THR:HG22	1.91	0.53
1:a:82:ARG:HG2	1:a:86:PHE:CD2	2.44	0.53
1:d:82:ARG:HG2	1:d:86:PHE:CD2	2.44	0.53
1:k:82:ARG:HG2	1:k:86:PHE:CD2	2.44	0.53
1:k:156:LYS:HD3	1:k:165:THR:HG22	1.91	0.53
1:k:283:SER:HB3	1:k:403:GLY:HA2	1.92	0.53
1:p:530:ASN:HD22	1:s:547:LEU:HD21	1.74	0.53
1:r:384:GLY:O	1:r:555:GLU:HG3	2.09	0.53
1:y:447:ILE:O	1:y:561:GLY:HA3	2.08	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:z:156:LYS:HD3	1:z:165:THR:HG22	1.91	0.53
1:1:156:LYS:HD3	1:1:165:THR:HG22	1.91	0.53
1:6:82:ARG:HG2	1:6:86:PHE:CD2	2.44	0.53
1:6:156:LYS:HD3	1:6:165:THR:HG22	1.91	0.53
1:6:195:ASP:OD2	1:6:208:LYS:NZ	2.39	0.53
1:6:283:SER:HB3	1:6:403:GLY:HA2	1.91	0.53
1:8:156:LYS:HD3	1:8:165:THR:HG22	1.91	0.53
1:B:82:ARG:HG2	1:B:86:PHE:CD2	2.44	0.52
1:D:82:ARG:HG2	1:D:86:PHE:CD2	2.44	0.52
1:E:118:TRP:HB2	1:E:449:TYR:O	2.08	0.52
1:E:283:SER:HB3	1:E:403:GLY:HA2	1.91	0.52
1:F:82:ARG:HG2	1:F:86:PHE:CD2	2.44	0.52
1:F:283:SER:HB3	1:F:403:GLY:HA2	1.91	0.52
1:H:82:ARG:HG2	1:H:86:PHE:CD2	2.44	0.52
1:H:156:LYS:HD3	1:H:165:THR:HG22	1.91	0.52
1:K:82:ARG:HG2	1:K:86:PHE:CD2	2.45	0.52
1:M:195:ASP:OD2	1:M:208:LYS:NZ	2.39	0.52
1:N:63:ARG:HG3	1:N:197:LEU:HD23	1.90	0.52
1:O:313:GLN:OE1	1:O:325:THR:OG1	2.17	0.52
1:O:371:GLN:HB2	1:O:407:TRP:CZ3	2.43	0.52
1:P:384:GLY:O	1:P:555:GLU:HG3	2.09	0.52
1:R:82:ARG:HG2	1:R:86:PHE:CD2	2.44	0.52
1:R:118:TRP:HB2	1:R:449:TYR:O	2.08	0.52
1:R:447:ILE:O	1:R:561:GLY:HA3	2.08	0.52
1:V:371:GLN:HB2	1:V:407:TRP:CZ3	2.44	0.52
1:W:82:ARG:HG2	1:W:86:PHE:CD2	2.44	0.52
1:Z:371:GLN:HB2	1:Z:407:TRP:CZ3	2.43	0.52
1:c:82:ARG:HG2	1:c:86:PHE:CD2	2.44	0.52
1:f:82:ARG:HG2	1:f:86:PHE:CD2	2.44	0.52
1:g:499:GLY:CA	1:g:503:ASN:HD21	2.10	0.52
1:h:547:LEU:HD21	1:k:530:ASN:HD22	1.74	0.52
1:i:82:ARG:HG2	1:i:86:PHE:CD2	2.45	0.52
1:i:384:GLY:O	1:i:555:GLU:HG3	2.09	0.52
1:p:356:PHE:HB2	1:p:405:THR:HG22	1.90	0.52
1:q:82:ARG:HG2	1:q:86:PHE:CD2	2.44	0.52
1:q:156:LYS:HD3	1:q:165:THR:HG22	1.91	0.52
1:q:533:ASN:HD21	1:x:537:ARG:HH22	1.57	0.52
1:u:313:GLN:OE1	1:u:325:THR:OG1	2.17	0.52
1:2:82:ARG:HG2	1:2:86:PHE:CD2	2.44	0.52
1:7:82:ARG:HG2	1:7:86:PHE:CD2	2.45	0.52
1:B:118:TRP:HB2	1:B:449:TYR:O	2.08	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:447:ILE:O	1:B:561:GLY:HA3	2.08	0.52
1:C:371:GLN:HB2	1:C:407:TRP:CZ3	2.43	0.52
1:D:384:GLY:O	1:D:555:GLU:HG3	2.09	0.52
1:G:283:SER:HB3	1:G:403:GLY:HA2	1.91	0.52
1:H:283:SER:HB3	1:H:403:GLY:HA2	1.92	0.52
1:H:356:PHE:HB2	1:H:405:THR:HG22	1.90	0.52
1:H:384:GLY:O	1:H:555:GLU:HG3	2.09	0.52
1:O:82:ARG:HG2	1:O:86:PHE:CD2	2.44	0.52
1:Q:152:LYS:NZ	1:Q:169:ASN:OD1	2.29	0.52
1:S:356:PHE:HB2	1:S:405:THR:HG22	1.90	0.52
1:U:82:ARG:HG2	1:U:86:PHE:CD2	2.44	0.52
1:Z:82:ARG:HG2	1:Z:86:PHE:CD2	2.44	0.52
1:Z:313:GLN:OE1	1:Z:325:THR:OG1	2.17	0.52
1:c:384:GLY:O	1:c:555:GLU:HG3	2.09	0.52
1:g:156:LYS:HD3	1:g:165:THR:HG22	1.91	0.52
1:h:82:ARG:HG2	1:h:86:PHE:CD2	2.44	0.52
1:i:156:LYS:HD3	1:i:165:THR:HG22	1.91	0.52
1:l:283:SER:HB3	1:l:403:GLY:HA2	1.92	0.52
1:p:499:GLY:CA	1:p:503:ASN:HD21	2.09	0.52
1:r:82:ARG:HG2	1:r:86:PHE:CD2	2.44	0.52
1:1:82:ARG:HG2	1:1:86:PHE:CD2	2.45	0.52
1:5:384:GLY:O	1:5:555:GLU:HG3	2.09	0.52
1:6:384:GLY:O	1:6:555:GLU:HG3	2.09	0.52
1:7:152:LYS:NZ	1:7:169:ASN:OD1	2.29	0.52
1:7:384:GLY:O	1:7:555:GLU:HG3	2.09	0.52
1:I:82:ARG:HG2	1:I:86:PHE:CD2	2.44	0.52
1:L:82:ARG:HG2	1:L:86:PHE:CD2	2.44	0.52
1:O:283:SER:HB3	1:O:403:GLY:HA2	1.92	0.52
1:P:82:ARG:HG2	1:P:86:PHE:CD2	2.45	0.52
1:P:156:LYS:HD3	1:P:165:THR:HG22	1.91	0.52
1:P:283:SER:HB3	1:P:403:GLY:HA2	1.92	0.52
1:Q:82:ARG:HG2	1:Q:86:PHE:CD2	2.44	0.52
1:Q:356:PHE:HB2	1:Q:405:THR:HG22	1.90	0.52
1:Q:371:GLN:HB2	1:Q:407:TRP:CZ3	2.43	0.52
1:Q:447:ILE:O	1:Q:561:GLY:HA3	2.08	0.52
1:V:156:LYS:HD3	1:V:165:THR:HG22	1.91	0.52
1:X:195:ASP:OD2	1:X:208:LYS:NZ	2.39	0.52
1:Z:283:SER:HB3	1:Z:403:GLY:HA2	1.91	0.52
1:a:384:GLY:O	1:a:555:GLU:HG3	2.09	0.52
1:c:156:LYS:HD3	1:c:165:THR:HG22	1.91	0.52
1:f:156:LYS:HD3	1:f:165:THR:HG22	1.91	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:h:381:TYR:HD2	1:i:497:THR:OG1	1.87	0.52
1:j:82:ARG:HG2	1:j:86:PHE:CD2	2.44	0.52
1:j:381:TYR:HD2	1:x:497:THR:OG1	1.87	0.52
1:j:384:GLY:O	1:j:555:GLU:HG3	2.09	0.52
1:k:195:ASP:OD2	1:k:208:LYS:NZ	2.39	0.52
1:k:384:GLY:O	1:k:555:GLU:HG3	2.09	0.52
1:m:530:ASN:HD22	1:r:547:LEU:HD21	1.74	0.52
1:o:82:ARG:HG2	1:o:86:PHE:CD2	2.44	0.52
1:o:547:LEU:HD21	1:6:530:ASN:HD22	1.74	0.52
1:p:152:LYS:NZ	1:p:169:ASN:OD1	2.29	0.52
1:p:156:LYS:HD3	1:p:165:THR:HG22	1.91	0.52
1:s:283:SER:HB3	1:s:403:GLY:HA2	1.91	0.52
1:v:82:ARG:HG2	1:v:86:PHE:CD2	2.44	0.52
1:w:356:PHE:HB2	1:w:405:THR:HG22	1.90	0.52
1:3:152:LYS:NZ	1:3:169:ASN:OD1	2.29	0.52
1:7:156:LYS:HD3	1:7:165:THR:HG22	1.91	0.52
1:8:283:SER:HB3	1:8:403:GLY:HA2	1.92	0.52
1:C:152:LYS:NZ	1:C:169:ASN:OD1	2.29	0.52
1:D:156:LYS:HD3	1:D:165:THR:HG22	1.91	0.52
1:F:152:LYS:NZ	1:F:169:ASN:OD1	2.29	0.52
1:I:283:SER:HB3	1:I:403:GLY:HA2	1.92	0.52
1:I:356:PHE:HB2	1:I:405:THR:HG22	1.90	0.52
1:I:371:GLN:HB2	1:I:407:TRP:CZ3	2.43	0.52
1:I:447:ILE:O	1:I:561:GLY:HA3	2.08	0.52
1:L:63:ARG:HG3	1:L:197:LEU:HD23	1.89	0.52
1:L:152:LYS:NZ	1:L:169:ASN:OD1	2.29	0.52
1:W:156:LYS:HD3	1:W:165:THR:HG22	1.91	0.52
1:a:156:LYS:HD3	1:a:165:THR:HG22	1.91	0.52
1:d:156:LYS:HD3	1:d:165:THR:HG22	1.91	0.52
1:f:384:GLY:O	1:f:555:GLU:HG3	2.09	0.52
1:f:447:ILE:O	1:f:561:GLY:HA3	2.08	0.52
1:g:530:ASN:HD22	1:z:547:LEU:HD21	1.75	0.52
1:i:537:ARG:HH22	1:l:533:ASN:HD21	1.58	0.52
1:n:82:ARG:HG2	1:n:86:PHE:CD2	2.44	0.52
1:w:313:GLN:OE1	1:w:325:THR:OG1	2.17	0.52
1:y:82:ARG:HG2	1:y:86:PHE:CD2	2.44	0.52
1:z:283:SER:HB3	1:z:403:GLY:HA2	1.91	0.52
1:4:156:LYS:HD3	1:4:165:THR:HG22	1.91	0.52
1:5:82:ARG:HG2	1:5:86:PHE:CD2	2.44	0.52
1:5:371:GLN:HB2	1:5:407:TRP:CZ3	2.43	0.52
1:A:152:LYS:NZ	1:A:169:ASN:OD1	2.29	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:537:ARG:HH22	1:L:533:ASN:HD21	1.58	0.52
1:D:195:ASP:OD2	1:D:208:LYS:NZ	2.39	0.52
1:E:82:ARG:HG2	1:E:86:PHE:CD2	2.44	0.52
1:I:152:LYS:NZ	1:I:169:ASN:OD1	2.29	0.52
1:J:356:PHE:HB2	1:J:405:THR:HG22	1.90	0.52
1:J:371:GLN:HB2	1:J:407:TRP:CZ3	2.44	0.52
1:L:118:TRP:HB2	1:L:449:TYR:O	2.08	0.52
1:O:356:PHE:HB2	1:O:405:THR:HG22	1.90	0.52
1:Q:283:SER:HB3	1:Q:403:GLY:HA2	1.92	0.52
1:S:371:GLN:HB2	1:S:407:TRP:CZ3	2.43	0.52
1:U:63:ARG:HG3	1:U:197:LEU:HD23	1.89	0.52
1:U:118:TRP:HB2	1:U:449:TYR:O	2.08	0.52
1:Z:356:PHE:HB2	1:Z:405:THR:HG22	1.90	0.52
1:d:384:GLY:O	1:d:555:GLU:HG3	2.09	0.52
1:g:152:LYS:NZ	1:g:169:ASN:OD1	2.29	0.52
1:j:371:GLN:HB2	1:j:407:TRP:CZ3	2.43	0.52
1:r:156:LYS:HD3	1:r:165:THR:HG22	1.91	0.52
1:t:283:SER:HB3	1:t:403:GLY:HA2	1.91	0.52
1:t:356:PHE:HB2	1:t:405:THR:HG22	1.90	0.52
1:t:533:ASN:HD21	1:5:537:ARG:HH22	1.58	0.52
1:v:156:LYS:HD3	1:v:165:THR:HG22	1.91	0.52
1:w:283:SER:HB3	1:w:403:GLY:HA2	1.91	0.52
1:2:156:LYS:HD3	1:2:165:THR:HG22	1.91	0.52
1:3:82:ARG:HG2	1:3:86:PHE:CD2	2.44	0.52
1:5:156:LYS:HD3	1:5:165:THR:HG22	1.91	0.52
1:7:537:ARG:HH22	1:8:533:ASN:HD21	1.58	0.52
1:G:82:ARG:HG2	1:G:86:PHE:CD2	2.44	0.52
1:G:384:GLY:O	1:G:555:GLU:HG3	2.09	0.52
1:U:533:ASN:HD21	1:V:537:ARG:HH22	1.58	0.52
1:b:283:SER:HB3	1:b:403:GLY:HA2	1.91	0.52
1:c:447:ILE:O	1:c:561:GLY:HA3	2.08	0.52
1:j:156:LYS:HD3	1:j:165:THR:HG22	1.91	0.52
1:j:537:ARG:HH22	1:w:533:ASN:HD21	1.58	0.52
1:m:156:LYS:HD3	1:m:165:THR:HG22	1.91	0.52
1:m:547:LEU:HD21	1:r:530:ASN:HD22	1.73	0.52
1:n:283:SER:HB3	1:n:403:GLY:HA2	1.91	0.52
1:q:547:LEU:HD21	1:x:530:ASN:HD22	1.74	0.52
1:t:82:ARG:HG2	1:t:86:PHE:CD2	2.44	0.52
1:u:82:ARG:HG2	1:u:86:PHE:CD2	2.44	0.52
1:v:283:SER:HB3	1:v:403:GLY:HA2	1.91	0.52
1:w:82:ARG:HG2	1:w:86:PHE:CD2	2.45	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:x:82:ARG:HG2	1:x:86:PHE:CD2	2.44	0.52
1:3:283:SER:HB3	1:3:403:GLY:HA2	1.92	0.52
1:4:499:GLY:CA	1:4:503:ASN:HD21	2.09	0.52
1:C:55:VAL:HG11	1:C:134:CYS:SG	2.50	0.52
1:D:283:SER:HB3	1:D:403:GLY:HA2	1.92	0.52
1:E:384:GLY:O	1:E:555:GLU:HG3	2.09	0.52
1:I:156:LYS:HD3	1:I:165:THR:HG22	1.91	0.52
1:L:283:SER:HB3	1:L:403:GLY:HA2	1.91	0.52
1:N:533:ASN:HD21	1:O:537:ARG:HH22	1.58	0.52
1:S:283:SER:HB3	1:S:403:GLY:HA2	1.91	0.52
1:U:283:SER:HB3	1:U:403:GLY:HA2	1.91	0.52
1:V:55:VAL:HG11	1:V:134:CYS:SG	2.50	0.52
1:W:283:SER:HB3	1:W:403:GLY:HA2	1.92	0.52
1:Z:55:VAL:HG11	1:Z:134:CYS:SG	2.50	0.52
1:e:283:SER:HB3	1:e:403:GLY:HA2	1.91	0.52
1:g:82:ARG:HG2	1:g:86:PHE:CD2	2.45	0.52
1:g:537:ARG:HH22	1:z:533:ASN:HD21	1.58	0.52
1:h:530:ASN:HD22	1:k:547:LEU:HD21	1.73	0.52
1:v:55:VAL:HG11	1:v:134:CYS:SG	2.50	0.52
1:x:283:SER:HB3	1:x:403:GLY:HA2	1.92	0.52
1:y:55:VAL:HG11	1:y:134:CYS:SG	2.50	0.52
1:y:156:LYS:HD3	1:y:165:THR:HG22	1.91	0.52
1:y:283:SER:HB3	1:y:403:GLY:HA2	1.91	0.52
1:8:384:GLY:O	1:8:555:GLU:HG3	2.09	0.52
1:B:283:SER:HB3	1:B:403:GLY:HA2	1.91	0.52
1:B:533:ASN:HD21	1:I:537:ARG:HH22	1.57	0.52
1:C:82:ARG:HG2	1:C:86:PHE:CD2	2.44	0.52
1:E:55:VAL:HG11	1:E:134:CYS:SG	2.50	0.52
1:E:156:LYS:HD3	1:E:165:THR:HG22	1.91	0.52
1:G:55:VAL:HG11	1:G:134:CYS:SG	2.50	0.52
1:I:55:VAL:HG11	1:I:134:CYS:SG	2.50	0.52
1:L:195:ASP:OD2	1:L:208:LYS:NZ	2.39	0.52
1:N:55:VAL:HG11	1:N:134:CYS:SG	2.50	0.52
1:N:537:ARG:HH22	1:O:533:ASN:HD21	1.58	0.52
1:O:55:VAL:HG11	1:O:134:CYS:SG	2.50	0.52
1:U:156:LYS:HD3	1:U:165:THR:HG22	1.91	0.52
1:V:152:LYS:NZ	1:V:169:ASN:OD1	2.29	0.52
1:Y:55:VAL:HG11	1:Y:134:CYS:SG	2.50	0.52
1:Y:533:ASN:HD21	1:Z:537:ARG:HH22	1.58	0.52
1:Y:537:ARG:HH22	1:Z:533:ASN:HD21	1.57	0.52
1:b:55:VAL:HG11	1:b:134:CYS:SG	2.50	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:e:55:VAL:HG11	1:e:134:CYS:SG	2.50	0.52
1:g:283:SER:HB3	1:g:403:GLY:HA2	1.92	0.52
1:j:55:VAL:HG11	1:j:134:CYS:SG	2.50	0.52
1:l:384:GLY:O	1:l:555:GLU:HG3	2.09	0.52
1:p:82:ARG:HG2	1:p:86:PHE:CD2	2.44	0.52
1:u:283:SER:HB3	1:u:403:GLY:HA2	1.92	0.52
1:1:384:GLY:O	1:1:555:GLU:HG3	2.09	0.52
1:2:44:ASN:O	1:3:250:THR:HA	2.10	0.52
1:6:55:VAL:HG11	1:6:134:CYS:SG	2.50	0.52
1:B:152:LYS:NZ	1:B:169:ASN:OD1	2.29	0.52
1:J:283:SER:HB3	1:J:403:GLY:HA2	1.91	0.52
1:M:55:VAL:HG11	1:M:134:CYS:SG	2.50	0.52
1:Q:55:VAL:HG11	1:Q:134:CYS:SG	2.50	0.52
1:Q:156:LYS:HD3	1:Q:165:THR:HG22	1.91	0.52
1:R:283:SER:HB3	1:R:403:GLY:HA2	1.91	0.52
1:U:152:LYS:NZ	1:U:169:ASN:OD1	2.29	0.52
1:U:195:ASP:OD2	1:U:208:LYS:NZ	2.39	0.52
1:X:55:VAL:HG11	1:X:134:CYS:SG	2.50	0.52
1:d:499:GLY:CA	1:d:503:ASN:HD21	2.09	0.52
1:p:55:VAL:HG11	1:p:134:CYS:SG	2.50	0.52
1:p:283:SER:HB3	1:p:403:GLY:HA2	1.91	0.52
1:q:384:GLY:O	1:q:555:GLU:HG3	2.09	0.52
1:u:530:ASN:HD22	1:1:547:LEU:HD21	1.75	0.52
1:G:156:LYS:HD3	1:G:165:THR:HG22	1.91	0.52
1:K:283:SER:HB3	1:K:403:GLY:HA2	1.92	0.52
1:L:156:LYS:HD3	1:L:165:THR:HG22	1.91	0.52
1:Q:537:ARG:HH22	1:R:533:ASN:HD21	1.57	0.52
1:S:55:VAL:HG11	1:S:134:CYS:SG	2.50	0.52
1:V:82:ARG:HG2	1:V:86:PHE:CD2	2.45	0.52
1:a:283:SER:HB3	1:a:403:GLY:HA2	1.91	0.52
1:a:499:GLY:CA	1:a:503:ASN:HD21	2.09	0.52
1:a:537:ARG:HH22	1:3:533:ASN:HD21	1.58	0.52
1:b:537:ARG:HH22	1:c:533:ASN:HD21	1.58	0.52
1:d:283:SER:HB3	1:d:403:GLY:HA2	1.91	0.52
1:e:537:ARG:HH22	1:f:533:ASN:HD21	1.58	0.52
1:g:55:VAL:HG11	1:g:134:CYS:SG	2.50	0.52
1:j:283:SER:HB3	1:j:403:GLY:HA2	1.92	0.52
1:k:55:VAL:HG11	1:k:134:CYS:SG	2.50	0.52
1:n:55:VAL:HG11	1:n:134:CYS:SG	2.50	0.52
1:o:530:ASN:HD22	1:6:547:LEU:HD21	1.73	0.52
1:p:537:ARG:HH22	1:s:533:ASN:HD21	1.58	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:q:283:SER:HB3	1:q:403:GLY:HA2	1.91	0.52
1:l:283:SER:HB3	1:l:403:GLY:HA2	1.91	0.52
1:5:55:VAL:HG11	1:5:134:CYS:SG	2.50	0.52
1:h:55:VAL:HG11	1:h:134:CYS:SG	2.50	0.51
1:l:293:THR:HG23	1:l:304:GLN:O	2.11	0.51
1:t:283:SER:HB3	1:t:403:GLY:HA2	1.92	0.51
1:w:152:LYS:NZ	1:w:169:ASN:OD1	2.29	0.51
1:b:82:ARG:HG2	1:b:86:PHE:CD2	2.44	0.51
1:d:55:VAL:HG11	1:d:134:CYS:SG	2.50	0.51
1:d:537:ARG:HH22	1:n:533:ASN:HD21	1.59	0.51
1:f:283:SER:HB3	1:f:403:GLY:HA2	1.91	0.51
1:h:533:ASN:HD21	1:k:537:ARG:HH22	1.58	0.51
1:m:499:GLY:CA	1:m:503:ASN:HD21	2.10	0.51
1:x:384:GLY:O	1:x:555:GLU:HG3	2.09	0.51
1:y:152:LYS:NZ	1:y:169:ASN:OD1	2.29	0.51
1:2:533:ASN:HD21	1:4:537:ARG:HH22	1.58	0.51
1:5:283:SER:HB3	1:5:403:GLY:HA2	1.92	0.51
1:5:293:THR:HG23	1:5:304:GLN:O	2.11	0.51
1:7:293:THR:HG23	1:7:304:GLN:O	2.11	0.51
1:B:547:LEU:HD21	1:I:530:ASN:HD22	1.74	0.51
1:D:152:LYS:NZ	1:D:169:ASN:OD1	2.29	0.51
1:L:55:VAL:HG11	1:L:134:CYS:SG	2.50	0.51
1:N:283:SER:HB3	1:N:403:GLY:HA2	1.92	0.51
1:O:293:THR:HG23	1:O:304:GLN:O	2.11	0.51
1:P:55:VAL:HG11	1:P:134:CYS:SG	2.50	0.51
1:S:82:ARG:HG2	1:S:86:PHE:CD2	2.44	0.51
1:U:293:THR:HG23	1:U:304:GLN:O	2.11	0.51
1:W:547:LEU:HD21	1:X:530:ASN:HD22	1.73	0.51
1:a:55:VAL:HG11	1:a:134:CYS:SG	2.50	0.51
1:c:283:SER:HB3	1:c:403:GLY:HA2	1.91	0.51
1:e:82:ARG:HG2	1:e:86:PHE:CD2	2.44	0.51
1:i:293:THR:HG23	1:i:304:GLN:O	2.11	0.51
1:j:293:THR:HG23	1:j:304:GLN:O	2.11	0.51
1:k:293:THR:HG23	1:k:304:GLN:O	2.11	0.51
1:l:82:ARG:HG2	1:l:86:PHE:CD2	2.45	0.51
1:t:55:VAL:HG11	1:t:134:CYS:SG	2.50	0.51
1:t:293:THR:HG23	1:t:304:GLN:O	2.11	0.51
1:u:384:GLY:O	1:u:555:GLU:HG3	2.09	0.51
1:w:55:VAL:HG11	1:w:134:CYS:SG	2.50	0.51
1:w:293:THR:HG23	1:w:304:GLN:O	2.11	0.51
1:3:55:VAL:HG11	1:3:134:CYS:SG	2.50	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:6:293:THR:HG23	1:6:304:GLN:O	2.11	0.51
1:8:55:VAL:HG11	1:8:134:CYS:SG	2.50	0.51
1:C:533:ASN:HD21	1:L:537:ARG:HH22	1.59	0.51
1:D:547:LEU:HD21	1:M:530:ASN:HD22	1.73	0.51
1:E:293:THR:HG23	1:E:304:GLN:O	2.11	0.51
1:F:293:THR:HG23	1:F:304:GLN:O	2.11	0.51
1:G:293:THR:HG23	1:G:304:GLN:O	2.11	0.51
1:G:537:ARG:HH22	1:H:533:ASN:HD21	1.58	0.51
1:J:55:VAL:HG11	1:J:134:CYS:SG	2.50	0.51
1:J:82:ARG:HG2	1:J:86:PHE:CD2	2.45	0.51
1:K:156:LYS:HD3	1:K:165:THR:HG22	1.91	0.51
1:N:156:LYS:HD3	1:N:165:THR:HG22	1.91	0.51
1:T:156:LYS:HD3	1:T:165:THR:HG22	1.91	0.51
1:V:293:THR:HG23	1:V:304:GLN:O	2.11	0.51
1:Y:283:SER:HB3	1:Y:403:GLY:HA2	1.92	0.51
1:Z:293:THR:HG23	1:Z:304:GLN:O	2.11	0.51
1:d:195:ASP:OD2	1:d:208:LYS:NZ	2.39	0.51
1:l:55:VAL:HG11	1:l:134:CYS:SG	2.50	0.51
1:s:82:ARG:HG2	1:s:86:PHE:CD2	2.44	0.51
1:8:82:ARG:HG2	1:8:86:PHE:CD2	2.44	0.51
1:8:293:THR:HG23	1:8:304:GLN:O	2.11	0.51
1:A:293:THR:HG23	1:A:304:GLN:O	2.11	0.51
1:C:293:THR:HG23	1:C:304:GLN:O	2.11	0.51
1:E:537:ARG:HH22	1:P:533:ASN:HD21	1.58	0.51
1:F:55:VAL:HG11	1:F:134:CYS:SG	2.50	0.51
1:K:293:THR:HG23	1:K:304:GLN:O	2.11	0.51
1:R:152:LYS:NZ	1:R:169:ASN:OD1	2.29	0.51
1:Y:156:LYS:HD3	1:Y:165:THR:HG22	1.91	0.51
1:b:533:ASN:HD21	1:c:537:ARG:HH22	1.58	0.51
1:l:293:THR:HG23	1:l:304:GLN:O	2.11	0.51
1:m:537:ARG:HH22	1:r:533:ASN:HD21	1.58	0.51
1:o:533:ASN:HD21	1:6:537:ARG:HH22	1.58	0.51
1:t:537:ARG:HH22	1:5:533:ASN:HD21	1.58	0.51
1:x:55:VAL:HG11	1:x:134:CYS:SG	2.50	0.51
1:x:156:LYS:HD3	1:x:165:THR:HG22	1.91	0.51
1:z:82:ARG:HG2	1:z:86:PHE:CD2	2.45	0.51
1:2:37:HIS:CE1	1:3:34:GLY:HA2	2.44	0.51
1:B:55:VAL:HG11	1:B:134:CYS:SG	2.50	0.51
1:D:533:ASN:HD21	1:M:537:ARG:HH22	1.58	0.51
1:M:283:SER:HB3	1:M:403:GLY:HA2	1.92	0.51
1:N:82:ARG:HG2	1:N:86:PHE:CD2	2.44	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Q:530:ASN:HD22	1:R:547:LEU:HD21	1.74	0.51
1:R:55:VAL:HG11	1:R:134:CYS:SG	2.50	0.51
1:T:293:THR:HG23	1:T:304:GLN:O	2.11	0.51
1:U:55:VAL:HG11	1:U:134:CYS:SG	2.50	0.51
1:U:537:ARG:HH22	1:V:533:ASN:HD21	1.59	0.51
1:V:283:SER:HB3	1:V:403:GLY:HA2	1.91	0.51
1:W:533:ASN:HD21	1:X:537:ARG:HH22	1.58	0.51
1:e:533:ASN:HD21	1:f:537:ARG:HH22	1.58	0.51
1:m:55:VAL:HG11	1:m:134:CYS:SG	2.50	0.51
1:o:537:ARG:HH22	1:6:533:ASN:HD21	1.58	0.51
1:p:293:THR:HG23	1:p:304:GLN:O	2.11	0.51
1:u:55:VAL:HG11	1:u:134:CYS:SG	2.50	0.51
1:u:156:LYS:HD3	1:u:165:THR:HG22	1.91	0.51
1:u:293:THR:HG23	1:u:304:GLN:O	2.10	0.51
1:2:55:VAL:HG11	1:2:134:CYS:SG	2.50	0.51
1:3:156:LYS:HD3	1:3:165:THR:HG22	1.91	0.51
1:4:55:VAL:HG11	1:4:134:CYS:SG	2.50	0.51
1:A:55:VAL:HG11	1:A:134:CYS:SG	2.50	0.51
1:Y:82:ARG:HG2	1:Y:86:PHE:CD2	2.44	0.51
1:g:293:THR:HG23	1:g:304:GLN:O	2.11	0.51
1:j:533:ASN:HD21	1:w:537:ARG:HH22	1.58	0.51
1:m:293:THR:HG23	1:m:304:GLN:O	2.11	0.51
1:n:156:LYS:HD3	1:n:165:THR:HG22	1.91	0.51
1:r:55:VAL:HG11	1:r:134:CYS:SG	2.50	0.51
1:v:152:LYS:NZ	1:v:169:ASN:OD1	2.29	0.51
1:x:293:THR:HG23	1:x:304:GLN:O	2.11	0.51
1:C:283:SER:HB3	1:C:403:GLY:HA2	1.91	0.51
1:X:283:SER:HB3	1:X:403:GLY:HA2	1.92	0.51
1:f:250:THR:HA	1:z:44:ASN:O	2.11	0.51
1:i:55:VAL:HG11	1:i:134:CYS:SG	2.50	0.51
1:q:537:ARG:HH22	1:x:533:ASN:HD21	1.59	0.51
1:r:283:SER:HB3	1:r:403:GLY:HA2	1.91	0.51
1:4:293:THR:HG23	1:4:304:GLN:O	2.11	0.51
1:7:55:VAL:HG11	1:7:134:CYS:SG	2.50	0.51
1:A:563:CYS:SG	1:A:564:MET:HG2	2.51	0.51
1:J:547:LEU:HD21	1:K:530:ASN:HD22	1.74	0.51
1:S:547:LEU:HD21	1:T:530:ASN:HD22	1.74	0.51
1:b:183:ASN:HD21	1:b:478:GLY:HA3	1.76	0.51
1:b:563:CYS:SG	1:b:564:MET:HG2	2.51	0.51
1:e:563:CYS:SG	1:e:564:MET:HG2	2.51	0.51
1:h:537:ARG:HH22	1:k:533:ASN:HD21	1.58	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:k:183:ASN:HD21	1:k:478:GLY:HA3	1.76	0.51
1:n:293:THR:HG23	1:n:304:GLN:O	2.11	0.51
1:n:563:CYS:SG	1:n:564:MET:HG2	2.51	0.51
1:q:55:VAL:HG11	1:q:134:CYS:SG	2.50	0.51
1:t:156:LYS:HD3	1:t:165:THR:HG22	1.91	0.51
1:w:156:LYS:HD3	1:w:165:THR:HG22	1.91	0.51
1:z:55:VAL:HG11	1:z:134:CYS:SG	2.50	0.51
1:3:293:THR:HG23	1:3:304:GLN:O	2.11	0.51
1:4:283:SER:HB3	1:4:403:GLY:HA2	1.91	0.51
1:6:183:ASN:HD21	1:6:478:GLY:HA3	1.76	0.51
1:7:183:ASN:HD21	1:7:478:GLY:HA3	1.76	0.51
1:B:183:ASN:HD21	1:B:478:GLY:HA3	1.76	0.51
1:D:55:VAL:HG11	1:D:134:CYS:SG	2.50	0.51
1:P:37:HIS:CE1	1:Q:34:GLY:HA2	2.46	0.51
1:a:293:THR:HG23	1:a:304:GLN:O	2.11	0.51
1:a:533:ASN:HD21	1:3:537:ARG:HH22	1.58	0.51
1:d:293:THR:HG23	1:d:304:GLN:O	2.11	0.51
1:e:183:ASN:HD21	1:e:478:GLY:HA3	1.76	0.51
1:e:293:THR:HG23	1:e:304:GLN:O	2.11	0.51
1:f:293:THR:HG23	1:f:304:GLN:O	2.11	0.51
1:f:395:TRP:CZ3	1:f:397:ASN:HB3	2.46	0.51
1:i:183:ASN:HD21	1:i:478:GLY:HA3	1.76	0.51
1:l:395:TRP:CZ3	1:l:397:ASN:HB3	2.46	0.51
1:q:563:CYS:SG	1:q:564:MET:HG2	2.51	0.51
1:s:293:THR:HG23	1:s:304:GLN:O	2.10	0.51
1:t:183:ASN:HD21	1:t:478:GLY:HA3	1.76	0.51
1:1:55:VAL:HG11	1:1:134:CYS:SG	2.50	0.51
1:1:563:CYS:SG	1:1:564:MET:HG2	2.51	0.51
1:2:283:SER:HB3	1:2:403:GLY:HA2	1.92	0.51
1:3:183:ASN:HD21	1:3:478:GLY:HA3	1.76	0.51
1:3:563:CYS:SG	1:3:564:MET:HG2	2.51	0.51
1:8:395:TRP:CZ3	1:8:397:ASN:HB3	2.46	0.51
1:C:563:CYS:SG	1:C:564:MET:HG2	2.51	0.51
1:D:183:ASN:HD21	1:D:478:GLY:HA3	1.76	0.51
1:F:250:THR:HA	1:R:44:ASN:O	2.11	0.51
1:F:563:CYS:SG	1:F:564:MET:HG2	2.51	0.51
1:G:395:TRP:CZ3	1:G:397:ASN:HB3	2.46	0.51
1:J:395:TRP:CZ3	1:J:397:ASN:HB3	2.46	0.51
1:K:55:VAL:HG11	1:K:134:CYS:SG	2.50	0.51
1:M:293:THR:HG23	1:M:304:GLN:O	2.11	0.51
1:N:395:TRP:CZ3	1:N:397:ASN:HB3	2.46	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:563:CYS:SG	1:N:564:MET:HG2	2.51	0.51
1:Q:563:CYS:SG	1:Q:564:MET:HG2	2.51	0.51
1:S:395:TRP:CZ3	1:S:397:ASN:HB3	2.46	0.51
1:V:563:CYS:SG	1:V:564:MET:HG2	2.51	0.51
1:Y:293:THR:HG23	1:Y:304:GLN:O	2.11	0.51
1:Y:395:TRP:CZ3	1:Y:397:ASN:HB3	2.46	0.51
1:Y:563:CYS:SG	1:Y:564:MET:HG2	2.51	0.51
1:b:293:THR:HG23	1:b:304:GLN:O	2.11	0.51
1:c:250:THR:HA	1:s:44:ASN:O	2.11	0.51
1:c:395:TRP:CZ3	1:c:397:ASN:HB3	2.46	0.51
1:d:533:ASN:HD21	1:n:537:ARG:HH22	1.58	0.51
1:f:34:GLY:HA2	1:z:37:HIS:CE1	2.46	0.51
1:h:44:ASN:O	1:i:250:THR:HA	2.11	0.51
1:m:283:SER:HB3	1:m:403:GLY:HA2	1.91	0.51
1:n:183:ASN:HD21	1:n:478:GLY:HA3	1.76	0.51
1:o:293:THR:HG23	1:o:304:GLN:O	2.11	0.51
1:t:395:TRP:CZ3	1:t:397:ASN:HB3	2.46	0.51
1:u:395:TRP:CZ3	1:u:397:ASN:HB3	2.46	0.51
1:u:533:ASN:HD21	1:l:537:ARG:HH22	1.59	0.51
1:w:183:ASN:HD21	1:w:478:GLY:HA3	1.76	0.51
1:w:395:TRP:CZ3	1:w:397:ASN:HB3	2.46	0.51
1:y:293:THR:HG23	1:y:304:GLN:O	2.11	0.51
1:l:395:TRP:CZ3	1:l:397:ASN:HB3	2.46	0.51
1:6:563:CYS:SG	1:6:564:MET:HG2	2.51	0.51
1:B:250:THR:HA	1:C:44:ASN:O	2.12	0.50
1:E:395:TRP:CZ3	1:E:397:ASN:HB3	2.46	0.50
1:H:37:HIS:CE1	1:I:34:GLY:HA2	2.46	0.50
1:H:395:TRP:CZ3	1:H:397:ASN:HB3	2.46	0.50
1:I:563:CYS:SG	1:I:564:MET:HG2	2.51	0.50
1:K:44:ASN:O	1:L:250:THR:HA	2.12	0.50
1:N:44:ASN:O	1:m:250:THR:HA	2.11	0.50
1:N:293:THR:HG23	1:N:304:GLN:O	2.11	0.50
1:O:563:CYS:SG	1:O:564:MET:HG2	2.51	0.50
1:R:250:THR:HA	1:V:44:ASN:O	2.12	0.50
1:T:55:VAL:HG11	1:T:134:CYS:SG	2.50	0.50
1:W:55:VAL:HG11	1:W:134:CYS:SG	2.50	0.50
1:X:293:THR:HG23	1:X:304:GLN:O	2.11	0.50
1:Y:44:ASN:O	1:4:250:THR:HA	2.11	0.50
1:Z:563:CYS:SG	1:Z:564:MET:HG2	2.51	0.50
1:c:293:THR:HG23	1:c:304:GLN:O	2.11	0.50
1:h:293:THR:HG23	1:h:304:GLN:O	2.11	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:i:283:SER:HB3	1:i:403:GLY:HA2	1.91	0.50
1:i:533:ASN:HD21	1:l:537:ARG:HH22	1.58	0.50
1:j:250:THR:HA	1:l:44:ASN:O	2.11	0.50
1:k:563:CYS:SG	1:k:564:MET:HG2	2.51	0.50
1:o:44:ASN:O	1:7:250:THR:HA	2.11	0.50
1:q:183:ASN:HD21	1:q:478:GLY:HA3	1.76	0.50
1:q:293:THR:HG23	1:q:304:GLN:O	2.11	0.50
1:q:395:TRP:CZ3	1:q:397:ASN:HB3	2.46	0.50
1:s:55:VAL:HG11	1:s:134:CYS:SG	2.50	0.50
1:v:293:THR:HG23	1:v:304:GLN:O	2.11	0.50
1:z:293:THR:HG23	1:z:304:GLN:O	2.11	0.50
1:1:183:ASN:HD21	1:1:478:GLY:HA3	1.76	0.50
1:2:563:CYS:SG	1:2:564:MET:HG2	2.51	0.50
1:A:37:HIS:CE1	1:E:34:GLY:HA2	2.46	0.50
1:J:44:ASN:O	1:a:250:THR:HA	2.11	0.50
1:M:183:ASN:HD21	1:M:478:GLY:HA3	1.76	0.50
1:P:395:TRP:CZ3	1:P:397:ASN:HB3	2.46	0.50
1:R:183:ASN:HD21	1:R:478:GLY:HA3	1.76	0.50
1:T:44:ASN:O	1:U:250:THR:HA	2.12	0.50
1:W:183:ASN:HD21	1:W:478:GLY:HA3	1.76	0.50
1:W:563:CYS:SG	1:W:564:MET:HG2	2.51	0.50
1:X:183:ASN:HD21	1:X:478:GLY:HA3	1.76	0.50
1:c:34:GLY:HA2	1:s:37:HIS:CE1	2.46	0.50
1:d:563:CYS:SG	1:d:564:MET:HG2	2.51	0.50
1:f:55:VAL:HG11	1:f:134:CYS:SG	2.50	0.50
1:n:250:THR:HA	1:r:44:ASN:O	2.11	0.50
1:r:293:THR:HG23	1:r:304:GLN:O	2.10	0.50
1:r:563:CYS:SG	1:r:564:MET:HG2	2.51	0.50
1:x:395:TRP:CZ3	1:x:397:ASN:HB3	2.46	0.50
1:1:293:THR:HG23	1:1:304:GLN:O	2.10	0.50
1:5:250:THR:HA	1:8:44:ASN:O	2.11	0.50
1:7:283:SER:HB3	1:7:403:GLY:HA2	1.91	0.50
1:7:533:ASN:HD21	1:8:537:ARG:HH22	1.58	0.50
1:D:563:CYS:SG	1:D:564:MET:HG2	2.51	0.50
1:E:563:CYS:SG	1:E:564:MET:HG2	2.51	0.50
1:G:44:ASN:O	1:W:250:THR:HA	2.11	0.50
1:H:563:CYS:SG	1:H:564:MET:HG2	2.51	0.50
1:K:395:TRP:CZ3	1:K:397:ASN:HB3	2.46	0.50
1:O:44:ASN:O	1:P:250:THR:HA	2.11	0.50
1:O:395:TRP:CZ3	1:O:397:ASN:HB3	2.46	0.50
1:P:563:CYS:SG	1:P:564:MET:HG2	2.51	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:S:44:ASN:O	1:d:250:THR:HA	2.11	0.50
1:T:395:TRP:CZ3	1:T:397:ASN:HB3	2.46	0.50
1:a:563:CYS:SG	1:a:564:MET:HG2	2.51	0.50
1:c:55:VAL:HG11	1:c:134:CYS:SG	2.50	0.50
1:h:55:VAL:HG11	1:h:134:CYS:SG	2.50	0.50
1:h:395:TRP:CZ3	1:h:397:ASN:HB3	2.46	0.50
1:i:563:CYS:SG	1:i:564:MET:HG2	2.51	0.50
1:k:250:THR:HA	1:w:44:ASN:O	2.11	0.50
1:m:82:ARG:HG2	1:m:86:PHE:CD2	2.45	0.50
1:p:183:ASN:HD21	1:p:478:GLY:HA3	1.76	0.50
1:u:250:THR:HA	1:5:44:ASN:O	2.12	0.50
1:2:523:LEU:HD21	1:4:50:TYR:CE2	2.47	0.50
1:4:82:ARG:HG2	1:4:86:PHE:CD2	2.44	0.50
1:5:563:CYS:SG	1:5:564:MET:HG2	2.51	0.50
1:7:563:CYS:SG	1:7:564:MET:HG2	2.51	0.50
1:C:250:THR:HA	1:D:44:ASN:O	2.11	0.50
1:D:250:THR:HA	1:E:44:ASN:O	2.11	0.50
1:G:563:CYS:SG	1:G:564:MET:HG2	2.51	0.50
1:H:250:THR:HA	1:Z:44:ASN:O	2.11	0.50
1:K:183:ASN:HD21	1:K:478:GLY:HA3	1.76	0.50
1:M:34:GLY:HA2	1:c:37:HIS:CE1	2.47	0.50
1:P:293:THR:HG23	1:P:304:GLN:O	2.11	0.50
1:T:183:ASN:HD21	1:T:478:GLY:HA3	1.76	0.50
1:V:250:THR:HA	1:W:44:ASN:O	2.11	0.50
1:W:537:ARG:HH22	1:X:533:ASN:HD21	1.58	0.50
1:Z:395:TRP:CZ3	1:Z:397:ASN:HB3	2.46	0.50
1:j:44:ASN:O	1:x:250:THR:HA	2.12	0.50
1:j:563:CYS:SG	1:j:564:MET:HG2	2.51	0.50
1:o:55:VAL:HG11	1:o:134:CYS:SG	2.50	0.50
1:o:395:TRP:CZ3	1:o:397:ASN:HB3	2.46	0.50
1:s:563:CYS:SG	1:s:564:MET:HG2	2.51	0.50
1:t:44:ASN:O	1:6:250:THR:HA	2.11	0.50
1:t:563:CYS:SG	1:t:564:MET:HG2	2.51	0.50
1:z:395:TRP:CZ3	1:z:397:ASN:HB3	2.46	0.50
1:2:293:THR:HG23	1:2:304:GLN:O	2.10	0.50
1:5:499:GLY:CA	1:5:503:ASN:HD21	2.09	0.50
1:F:37:HIS:CE1	1:G:34:GLY:HA2	2.47	0.50
1:H:293:THR:HG23	1:H:304:GLN:O	2.11	0.50
1:L:44:ASN:O	1:b:250:THR:HA	2.11	0.50
1:M:395:TRP:CZ3	1:M:397:ASN:HB3	2.46	0.50
1:M:563:CYS:SG	1:M:564:MET:HG2	2.51	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:P:183:ASN:HD21	1:P:478:GLY:HA3	1.76	0.50
1:a:395:TRP:CZ3	1:a:397:ASN:HB3	2.46	0.50
1:b:395:TRP:CZ3	1:b:397:ASN:HB3	2.46	0.50
1:e:395:TRP:CZ3	1:e:397:ASN:HB3	2.46	0.50
1:g:183:ASN:HD21	1:g:478:GLY:HA3	1.76	0.50
1:i:499:GLY:CA	1:i:503:ASN:HD21	2.09	0.50
1:r:183:ASN:HD21	1:r:478:GLY:HA3	1.76	0.50
1:s:395:TRP:CZ3	1:s:397:ASN:HB3	2.46	0.50
1:w:563:CYS:SG	1:w:564:MET:HG2	2.51	0.50
1:B:293:THR:HG23	1:B:304:GLN:O	2.11	0.50
1:C:395:TRP:CZ3	1:C:397:ASN:HB3	2.46	0.50
1:D:34:GLY:HA2	1:E:37:HIS:CE1	2.47	0.50
1:D:395:TRP:CZ3	1:D:397:ASN:HB3	2.46	0.50
1:E:183:ASN:HD21	1:E:478:GLY:HA3	1.76	0.50
1:E:533:ASN:HD21	1:P:537:ARG:HH22	1.58	0.50
1:G:37:HIS:CE1	1:W:34:GLY:HA2	2.47	0.50
1:G:183:ASN:HD21	1:G:478:GLY:HA3	1.76	0.50
1:G:533:ASN:HD21	1:H:537:ARG:HH22	1.58	0.50
1:Q:293:THR:HG23	1:Q:304:GLN:O	2.11	0.50
1:R:293:THR:HG23	1:R:304:GLN:O	2.10	0.50
1:U:44:ASN:O	1:e:250:THR:HA	2.11	0.50
1:X:34:GLY:HA2	1:f:37:HIS:CE1	2.47	0.50
1:X:395:TRP:CZ3	1:X:397:ASN:HB3	2.46	0.50
1:X:563:CYS:SG	1:X:564:MET:HG2	2.51	0.50
1:d:395:TRP:CZ3	1:d:397:ASN:HB3	2.46	0.50
1:h:283:SER:HB3	1:h:403:GLY:HA2	1.92	0.50
1:m:313:GLN:OE1	1:m:325:THR:OG1	2.17	0.50
1:o:37:HIS:CE1	1:7:34:GLY:HA2	2.47	0.50
1:o:283:SER:HB3	1:o:403:GLY:HA2	1.92	0.50
1:v:537:ARG:HH22	1:y:533:ASN:HD21	1.58	0.50
1:z:563:CYS:SG	1:z:564:MET:HG2	2.51	0.50
1:2:530:ASN:HD22	1:4:547:LEU:HD21	1.76	0.50
1:2:547:LEU:HD13	1:3:243:LEU:HD22	1.93	0.50
1:A:250:THR:HA	1:B:44:ASN:O	2.12	0.50
1:A:395:TRP:CZ3	1:A:397:ASN:HB3	2.46	0.50
1:B:395:TRP:CZ3	1:B:397:ASN:HB3	2.46	0.50
1:C:183:ASN:HD21	1:C:478:GLY:HA3	1.76	0.50
1:D:537:ARG:HH22	1:M:533:ASN:HD21	1.58	0.50
1:H:183:ASN:HD21	1:H:478:GLY:HA3	1.76	0.50
1:I:293:THR:HG23	1:I:304:GLN:O	2.11	0.50
1:J:183:ASN:HD21	1:J:478:GLY:HA3	1.76	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:293:THR:HG23	1:J:304:GLN:O	2.11	0.50
1:M:44:ASN:O	1:N:250:THR:HA	2.11	0.50
1:R:395:TRP:CZ3	1:R:397:ASN:HB3	2.46	0.50
1:S:183:ASN:HD21	1:S:478:GLY:HA3	1.76	0.50
1:S:293:THR:HG23	1:S:304:GLN:O	2.10	0.50
1:S:533:ASN:HD21	1:T:537:ARG:HH22	1.58	0.50
1:U:37:HIS:CE1	1:e:34:GLY:HA2	2.46	0.50
1:U:183:ASN:HD21	1:U:478:GLY:HA3	1.76	0.50
1:U:395:TRP:CZ3	1:U:397:ASN:HB3	2.46	0.50
1:V:183:ASN:HD21	1:V:478:GLY:HA3	1.76	0.50
1:V:395:TRP:CZ3	1:V:397:ASN:HB3	2.46	0.50
1:l:563:CYS:SG	1:l:564:MET:HG2	2.51	0.50
1:m:183:ASN:HD21	1:m:478:GLY:HA3	1.76	0.50
1:o:183:ASN:HD21	1:o:478:GLY:HA3	1.76	0.50
1:p:44:ASN:O	1:q:250:THR:HA	2.11	0.50
1:p:563:CYS:SG	1:p:564:MET:HG2	2.51	0.50
1:2:183:ASN:HD21	1:2:478:GLY:HA3	1.76	0.50
1:2:547:LEU:HD21	1:4:530:ASN:HD22	1.77	0.50
1:3:44:ASN:O	1:8:250:THR:HA	2.12	0.50
1:F:395:TRP:CZ3	1:F:397:ASN:HB3	2.46	0.50
1:I:44:ASN:O	1:J:250:THR:HA	2.12	0.50
1:I:395:TRP:CZ3	1:I:397:ASN:HB3	2.46	0.50
1:L:37:HIS:CE1	1:b:34:GLY:HA2	2.46	0.50
1:L:395:TRP:CZ3	1:L:397:ASN:HB3	2.46	0.50
1:Q:44:ASN:O	1:S:250:THR:HA	2.12	0.50
1:U:563:CYS:SG	1:U:564:MET:HG2	2.51	0.50
1:W:395:TRP:CZ3	1:W:397:ASN:HB3	2.46	0.50
1:X:44:ASN:O	1:Y:250:THR:HA	2.11	0.50
1:g:37:HIS:CE1	1:1:34:GLY:HA2	2.46	0.50
1:g:44:ASN:O	1:1:250:THR:HA	2.12	0.50
1:g:563:CYS:SG	1:g:564:MET:HG2	2.51	0.50
1:h:37:HIS:CE1	1:i:34:GLY:HA2	2.47	0.50
1:h:183:ASN:HD21	1:h:478:GLY:HA3	1.76	0.50
1:j:499:GLY:CA	1:j:503:ASN:HD21	2.09	0.50
1:m:44:ASN:O	1:s:250:THR:HA	2.12	0.50
1:v:533:ASN:HD21	1:y:537:ARG:HH22	1.58	0.50
1:x:563:CYS:SG	1:x:564:MET:HG2	2.51	0.50
1:4:563:CYS:SG	1:4:564:MET:HG2	2.51	0.50
1:8:563:CYS:SG	1:8:564:MET:HG2	2.51	0.50
1:A:533:ASN:HD21	1:F:537:ARG:HH22	1.58	0.50
1:B:34:GLY:HA2	1:C:37:HIS:CE1	2.46	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:44:ASN:O	1:I:250:THR:HA	2.12	0.50
1:J:533:ASN:HD21	1:K:537:ARG:HH22	1.58	0.50
1:K:563:CYS:SG	1:K:564:MET:HG2	2.51	0.50
1:L:183:ASN:HD21	1:L:478:GLY:HA3	1.76	0.50
1:Q:395:TRP:CZ3	1:Q:397:ASN:HB3	2.46	0.50
1:W:293:THR:HG23	1:W:304:GLN:O	2.11	0.50
1:c:563:CYS:SG	1:c:564:MET:HG2	2.51	0.50
1:g:395:TRP:CZ3	1:g:397:ASN:HB3	2.46	0.50
1:h:563:CYS:SG	1:h:564:MET:HG2	2.51	0.50
1:j:395:TRP:CZ3	1:j:397:ASN:HB3	2.46	0.50
1:l:250:THR:HA	1:n:44:ASN:O	2.12	0.50
1:m:395:TRP:CZ3	1:m:397:ASN:HB3	2.46	0.50
1:m:563:CYS:SG	1:m:564:MET:HG2	2.51	0.50
1:n:395:TRP:CZ3	1:n:397:ASN:HB3	2.46	0.50
1:p:250:THR:HA	1:6:44:ASN:O	2.11	0.50
1:p:395:TRP:CZ3	1:p:397:ASN:HB3	2.46	0.50
1:p:533:ASN:HD21	1:s:537:ARG:HH22	1.59	0.50
1:r:395:TRP:CZ3	1:r:397:ASN:HB3	2.46	0.50
1:u:183:ASN:HD21	1:u:478:GLY:HA3	1.76	0.50
1:u:563:CYS:SG	1:u:564:MET:HG2	2.51	0.50
1:3:395:TRP:CZ3	1:3:397:ASN:HB3	2.46	0.50
1:4:183:ASN:HD21	1:4:478:GLY:HA3	1.76	0.50
1:5:395:TRP:CZ3	1:5:397:ASN:HB3	2.46	0.50
1:D:293:THR:HG23	1:D:304:GLN:O	2.11	0.49
1:L:563:CYS:SG	1:L:564:MET:HG2	2.51	0.49
1:P:44:ASN:O	1:Q:250:THR:HA	2.12	0.49
1:R:34:GLY:HA2	1:V:37:HIS:CE1	2.46	0.49
1:c:385:ASP:OD1	1:c:386:ASP:N	2.45	0.49
1:f:385:ASP:OD1	1:f:386:ASP:N	2.45	0.49
1:g:250:THR:HA	1:k:44:ASN:O	2.11	0.49
1:r:425:GLN:HG2	1:r:426:GLU:H	1.77	0.49
1:t:385:ASP:OD1	1:t:386:ASP:N	2.45	0.49
1:v:250:THR:HA	1:1:44:ASN:O	2.11	0.49
1:w:385:ASP:OD1	1:w:386:ASP:N	2.45	0.49
1:z:250:THR:HA	1:4:44:ASN:O	2.12	0.49
1:2:395:TRP:CZ3	1:2:397:ASN:HB3	2.46	0.49
1:7:395:TRP:CZ3	1:7:397:ASN:HB3	2.46	0.49
1:A:425:GLN:HG2	1:A:426:GLU:H	1.78	0.49
1:B:385:ASP:OD1	1:B:386:ASP:N	2.45	0.49
1:F:425:GLN:HG2	1:F:426:GLU:H	1.78	0.49
1:H:385:ASP:OD1	1:H:386:ASP:N	2.45	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:250:THR:HA	1:7:44:ASN:O	2.11	0.49
1:P:385:ASP:OD1	1:P:386:ASP:N	2.45	0.49
1:Q:183:ASN:HD21	1:Q:478:GLY:HA3	1.76	0.49
1:T:250:THR:HA	1:i:44:ASN:O	2.11	0.49
1:T:563:CYS:SG	1:T:564:MET:HG2	2.51	0.49
1:W:385:ASP:OD1	1:W:386:ASP:N	2.45	0.49
1:X:37:HIS:CE1	1:Y:34:GLY:HA2	2.47	0.49
1:Z:385:ASP:OD1	1:Z:386:ASP:N	2.45	0.49
1:e:44:ASN:O	1:h:250:THR:HA	2.12	0.49
1:i:50:TYR:CE2	1:l:523:LEU:HD21	2.48	0.49
1:i:395:TRP:CZ3	1:i:397:ASN:HB3	2.46	0.49
1:o:563:CYS:SG	1:o:564:MET:HG2	2.51	0.49
1:p:37:HIS:CE1	1:q:34:GLY:HA2	2.47	0.49
1:q:44:ASN:O	1:y:250:THR:HA	2.11	0.49
1:q:385:ASP:OD1	1:q:386:ASP:N	2.45	0.49
1:s:534:LEU:HD21	1:s:564:MET:SD	2.53	0.49
1:u:44:ASN:O	1:2:250:THR:HA	2.12	0.49
1:z:499:GLY:CA	1:z:503:ASN:HD21	2.09	0.49
1:z:534:LEU:HD21	1:z:564:MET:SD	2.53	0.49
1:4:313:GLN:OE1	1:4:325:THR:OG1	2.17	0.49
1:D:50:TYR:CE2	1:M:523:LEU:HD21	2.48	0.49
1:D:385:ASP:OD1	1:D:386:ASP:N	2.45	0.49
1:D:523:LEU:HD21	1:M:50:TYR:CE2	2.48	0.49
1:I:183:ASN:HD21	1:I:478:GLY:HA3	1.76	0.49
1:I:534:LEU:HD21	1:I:564:MET:SD	2.53	0.49
1:O:385:ASP:OD1	1:O:386:ASP:N	2.45	0.49
1:Q:533:ASN:HD21	1:R:537:ARG:HH22	1.59	0.49
1:Q:534:LEU:HD21	1:Q:564:MET:SD	2.53	0.49
1:R:385:ASP:OD1	1:R:386:ASP:N	2.45	0.49
1:S:563:CYS:SG	1:S:564:MET:HG2	2.51	0.49
1:W:50:TYR:CE2	1:X:523:LEU:HD21	2.48	0.49
1:b:44:ASN:O	1:o:250:THR:HA	2.12	0.49
1:f:563:CYS:SG	1:f:564:MET:HG2	2.51	0.49
1:g:385:ASP:OD1	1:g:386:ASP:N	2.45	0.49
1:p:385:ASP:OD1	1:p:386:ASP:N	2.45	0.49
1:q:37:HIS:CE1	1:y:34:GLY:HA2	2.46	0.49
1:r:250:THR:HA	1:x:44:ASN:O	2.12	0.49
1:x:183:ASN:HD21	1:x:478:GLY:HA3	1.76	0.49
1:y:385:ASP:OD1	1:y:386:ASP:N	2.45	0.49
1:l:385:ASP:OD1	1:l:386:ASP:N	2.45	0.49
1:2:50:TYR:CE2	1:4:523:LEU:HD21	2.47	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:4:395:TRP:CZ3	1:4:397:ASN:HB3	2.46	0.49
1:B:537:ARG:HH22	1:I:533:ASN:HD21	1.59	0.49
1:E:50:TYR:CE2	1:P:523:LEU:HD21	2.48	0.49
1:E:385:ASP:OD1	1:E:386:ASP:N	2.45	0.49
1:E:425:GLN:HG2	1:E:426:GLU:H	1.78	0.49
1:F:183:ASN:HD21	1:F:478:GLY:HA3	1.76	0.49
1:G:425:GLN:HG2	1:G:426:GLU:H	1.78	0.49
1:J:563:CYS:SG	1:J:564:MET:HG2	2.51	0.49
1:K:37:HIS:CE1	1:L:34:GLY:HA2	2.47	0.49
1:L:534:LEU:HD21	1:L:564:MET:SD	2.53	0.49
1:M:534:LEU:HD21	1:M:564:MET:SD	2.53	0.49
1:R:563:CYS:SG	1:R:564:MET:HG2	2.51	0.49
1:W:523:LEU:HD21	1:X:50:TYR:CE2	2.48	0.49
1:X:534:LEU:HD21	1:X:564:MET:SD	2.53	0.49
1:Z:34:GLY:HA2	1:a:37:HIS:CE1	2.47	0.49
1:Z:250:THR:HA	1:a:44:ASN:O	2.12	0.49
1:c:534:LEU:HD21	1:c:564:MET:SD	2.53	0.49
1:d:183:ASN:HD21	1:d:478:GLY:HA3	1.76	0.49
1:f:534:LEU:HD21	1:f:564:MET:SD	2.53	0.49
1:g:533:ASN:HD21	1:z:537:ARG:HH22	1.59	0.49
1:l:152:LYS:NZ	1:l:169:ASN:OD1	2.29	0.49
1:n:385:ASP:OD1	1:n:386:ASP:N	2.45	0.49
1:n:404:GLN:HE22	1:n:443:ASP:H	1.61	0.49
1:s:183:ASN:HD21	1:s:478:GLY:HA3	1.76	0.49
1:t:404:GLN:HE22	1:t:443:ASP:H	1.61	0.49
1:u:385:ASP:OD1	1:u:386:ASP:N	2.45	0.49
1:v:385:ASP:OD1	1:v:386:ASP:N	2.45	0.49
1:x:404:GLN:HE22	1:x:443:ASP:H	1.61	0.49
1:y:563:CYS:SG	1:y:564:MET:HG2	2.51	0.49
1:3:404:GLN:HE22	1:3:443:ASP:H	1.61	0.49
1:5:183:ASN:HD21	1:5:478:GLY:HA3	1.76	0.49
1:7:50:TYR:CE2	1:8:523:LEU:HD21	2.48	0.49
1:A:537:ARG:HH22	1:F:533:ASN:HD21	1.59	0.49
1:B:563:CYS:SG	1:B:564:MET:HG2	2.51	0.49
1:G:50:TYR:CE2	1:H:523:LEU:HD21	2.48	0.49
1:G:385:ASP:OD1	1:G:386:ASP:N	2.45	0.49
1:K:243:LEU:HD22	1:7:547:LEU:HD13	1.95	0.49
1:N:50:TYR:CE2	1:O:523:LEU:HD21	2.48	0.49
1:N:534:LEU:HD21	1:N:564:MET:SD	2.53	0.49
1:O:34:GLY:HA2	1:d:37:HIS:CE1	2.47	0.49
1:O:250:THR:HA	1:d:44:ASN:O	2.12	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:O:534:LEU:HD21	1:O:564:MET:SD	2.53	0.49
1:S:425:GLN:HG2	1:S:426:GLU:H	1.77	0.49
1:T:243:LEU:HD22	1:i:547:LEU:HD13	1.95	0.49
1:T:425:GLN:HG2	1:T:426:GLU:H	1.78	0.49
1:Y:50:TYR:CE2	1:Z:523:LEU:HD21	2.48	0.49
1:Y:534:LEU:HD21	1:Y:564:MET:SD	2.53	0.49
1:Z:534:LEU:HD21	1:Z:564:MET:SD	2.53	0.49
1:a:183:ASN:HD21	1:a:478:GLY:HA3	1.76	0.49
1:b:425:GLN:HG2	1:b:426:GLU:H	1.78	0.49
1:e:385:ASP:OD1	1:e:386:ASP:N	2.45	0.49
1:e:425:GLN:HG2	1:e:426:GLU:H	1.78	0.49
1:h:404:GLN:HE22	1:h:443:ASP:H	1.61	0.49
1:h:425:GLN:HG2	1:h:426:GLU:H	1.78	0.49
1:i:534:LEU:HD21	1:i:564:MET:SD	2.53	0.49
1:j:183:ASN:HD21	1:j:478:GLY:HA3	1.76	0.49
1:m:385:ASP:OD1	1:m:386:ASP:N	2.45	0.49
1:o:425:GLN:HG2	1:o:426:GLU:H	1.78	0.49
1:u:404:GLN:HE22	1:u:443:ASP:H	1.61	0.49
1:u:547:LEU:HD13	1:2:243:LEU:HD22	1.94	0.49
1:v:34:GLY:HA2	1:1:37:HIS:CE1	2.46	0.49
1:w:404:GLN:HE22	1:w:443:ASP:H	1.61	0.49
1:x:385:ASP:OD1	1:x:386:ASP:N	2.45	0.49
1:x:425:GLN:HG2	1:x:426:GLU:H	1.78	0.49
1:1:404:GLN:HE22	1:1:443:ASP:H	1.61	0.49
1:2:425:GLN:HG2	1:2:426:GLU:H	1.78	0.49
1:7:534:LEU:HD21	1:7:564:MET:SD	2.53	0.49
1:A:534:LEU:HD21	1:A:564:MET:SD	2.53	0.49
1:F:534:LEU:HD21	1:F:564:MET:SD	2.53	0.49
1:M:385:ASP:OD1	1:M:386:ASP:N	2.45	0.49
1:S:537:ARG:HH22	1:T:533:ASN:HD21	1.59	0.49
1:U:523:LEU:HD21	1:V:50:TYR:CE2	2.48	0.49
1:U:534:LEU:HD21	1:U:564:MET:SD	2.53	0.49
1:Y:183:ASN:HD21	1:Y:478:GLY:HA3	1.76	0.49
1:b:385:ASP:OD1	1:b:386:ASP:N	2.45	0.49
1:l:183:ASN:HD21	1:l:478:GLY:HA3	1.76	0.49
1:m:50:TYR:CE2	1:r:523:LEU:HD21	2.48	0.49
1:m:404:GLN:HE22	1:m:443:ASP:H	1.61	0.49
1:o:404:GLN:HE22	1:o:443:ASP:H	1.61	0.49
1:o:534:LEU:HD21	1:o:564:MET:SD	2.53	0.49
1:p:404:GLN:HE22	1:p:443:ASP:H	1.61	0.49
1:q:404:GLN:HE22	1:q:443:ASP:H	1.61	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:r:534:LEU:HD21	1:r:564:MET:SD	2.53	0.49
1:s:499:GLY:CA	1:s:503:ASN:HD21	2.09	0.49
1:u:425:GLN:HG2	1:u:426:GLU:H	1.78	0.49
1:v:395:TRP:CZ3	1:v:397:ASN:HB3	2.46	0.49
1:2:534:LEU:HD21	1:2:564:MET:SD	2.53	0.49
1:3:385:ASP:OD1	1:3:386:ASP:N	2.45	0.49
1:4:385:ASP:OD1	1:4:386:ASP:N	2.45	0.49
1:4:404:GLN:HE22	1:4:443:ASP:H	1.61	0.49
1:7:404:GLN:HE22	1:7:443:ASP:H	1.61	0.49
1:A:183:ASN:HD21	1:A:478:GLY:HA3	1.76	0.49
1:B:523:LEU:HD21	1:I:50:TYR:CE2	2.48	0.49
1:C:50:TYR:CE2	1:L:523:LEU:HD21	2.48	0.49
1:C:534:LEU:HD21	1:C:564:MET:SD	2.53	0.49
1:D:534:LEU:HD21	1:D:564:MET:SD	2.53	0.49
1:H:534:LEU:HD21	1:H:564:MET:SD	2.53	0.49
1:I:547:LEU:HD13	1:J:243:LEU:HD22	1.95	0.49
1:J:537:ARG:HH22	1:K:533:ASN:HD21	1.59	0.49
1:K:425:GLN:HG2	1:K:426:GLU:H	1.78	0.49
1:Q:37:HIS:CE1	1:S:34:GLY:HA2	2.47	0.49
1:S:534:LEU:HD21	1:S:564:MET:SD	2.53	0.49
1:T:37:HIS:CE1	1:U:34:GLY:HA2	2.47	0.49
1:V:534:LEU:HD21	1:V:564:MET:SD	2.53	0.49
1:Y:187:TRP:O	1:Y:482:GLN:NE2	2.46	0.49
1:a:425:GLN:HG2	1:a:426:GLU:H	1.78	0.49
1:c:183:ASN:HD21	1:c:478:GLY:HA3	1.76	0.49
1:c:404:GLN:HE22	1:c:443:ASP:H	1.61	0.49
1:e:37:HIS:CE1	1:h:34:GLY:HA2	2.47	0.49
1:f:425:GLN:HG2	1:f:426:GLU:H	1.78	0.49
1:g:404:GLN:HE22	1:g:443:ASP:H	1.61	0.49
1:g:534:LEU:HD21	1:g:564:MET:SD	2.53	0.49
1:h:534:LEU:HD21	1:h:564:MET:SD	2.53	0.49
1:i:187:TRP:O	1:i:482:GLN:NE2	2.46	0.49
1:i:404:GLN:HE22	1:i:443:ASP:H	1.61	0.49
1:k:395:TRP:CZ3	1:k:397:ASN:HB3	2.46	0.49
1:k:404:GLN:HE22	1:k:443:ASP:H	1.61	0.49
1:k:425:GLN:HG2	1:k:426:GLU:H	1.78	0.49
1:l:385:ASP:OD1	1:l:386:ASP:N	2.45	0.49
1:m:533:ASN:HD21	1:r:537:ARG:HH22	1.59	0.49
1:q:534:LEU:HD21	1:q:564:MET:SD	2.53	0.49
1:v:563:CYS:SG	1:v:564:MET:HG2	2.51	0.49
1:y:395:TRP:CZ3	1:y:397:ASN:HB3	2.46	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:z:183:ASN:HD21	1:z:478:GLY:HA3	1.76	0.49
1:2:537:ARG:HH22	1:4:533:ASN:HD21	1.59	0.49
1:6:395:TRP:CZ3	1:6:397:ASN:HB3	2.46	0.49
1:6:425:GLN:HG2	1:6:426:GLU:H	1.78	0.49
1:7:187:TRP:O	1:7:482:GLN:NE2	2.46	0.49
1:7:523:LEU:HD21	1:8:50:TYR:CE2	2.48	0.49
1:8:385:ASP:OD1	1:8:386:ASP:N	2.45	0.49
1:C:385:ASP:OD1	1:C:386:ASP:N	2.45	0.49
1:J:187:TRP:O	1:J:482:GLN:NE2	2.46	0.49
1:J:523:LEU:HD21	1:K:50:TYR:CE2	2.48	0.49
1:K:534:LEU:HD21	1:K:564:MET:SD	2.53	0.49
1:L:404:GLN:HE22	1:L:443:ASP:H	1.61	0.49
1:M:314:TRP:CH2	1:M:327:VAL:HG23	2.48	0.49
1:N:187:TRP:O	1:N:482:GLN:NE2	2.46	0.49
1:N:547:LEU:HD13	1:m:243:LEU:HD22	1.95	0.49
1:P:534:LEU:HD21	1:P:564:MET:SD	2.53	0.49
1:Q:50:TYR:CE2	1:R:523:LEU:HD21	2.48	0.49
1:S:385:ASP:OD1	1:S:386:ASP:N	2.45	0.49
1:S:523:LEU:HD21	1:T:50:TYR:CE2	2.48	0.49
1:T:534:LEU:HD21	1:T:564:MET:SD	2.53	0.49
1:U:50:TYR:CE2	1:V:523:LEU:HD21	2.48	0.49
1:U:404:GLN:HE22	1:U:443:ASP:H	1.61	0.49
1:V:385:ASP:OD1	1:V:386:ASP:N	2.45	0.49
1:W:534:LEU:HD21	1:W:564:MET:SD	2.53	0.49
1:X:314:TRP:CH2	1:X:327:VAL:HG23	2.48	0.49
1:X:385:ASP:OD1	1:X:386:ASP:N	2.45	0.49
1:Y:547:LEU:HD13	1:4:243:LEU:HD22	1.95	0.49
1:Z:183:ASN:HD21	1:Z:478:GLY:HA3	1.76	0.49
1:b:37:HIS:CE1	1:o:34:GLY:HA2	2.47	0.49
1:d:425:GLN:HG2	1:d:426:GLU:H	1.78	0.49
1:f:183:ASN:HD21	1:f:478:GLY:HA3	1.76	0.49
1:g:243:LEU:HD22	1:k:547:LEU:HD13	1.95	0.49
1:g:314:TRP:CH2	1:g:327:VAL:HG23	2.48	0.49
1:g:425:GLN:HG2	1:g:426:GLU:H	1.78	0.49
1:i:523:LEU:HD21	1:l:50:TYR:CE2	2.48	0.49
1:p:243:LEU:HD22	1:6:547:LEU:HD13	1.95	0.49
1:p:314:TRP:CH2	1:p:327:VAL:HG23	2.48	0.49
1:p:534:LEU:HD21	1:p:564:MET:SD	2.53	0.49
1:s:314:TRP:CH2	1:s:327:VAL:HG23	2.48	0.49
1:t:34:GLY:HA2	1:y:37:HIS:CE1	2.47	0.49
1:t:187:TRP:O	1:t:482:GLN:NE2	2.46	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:t:250:THR:HA	1:y:44:ASN:O	2.12	0.49
1:v:499:GLY:CA	1:v:503:ASN:HD21	2.09	0.49
1:w:187:TRP:O	1:w:482:GLN:NE2	2.46	0.49
1:1:534:LEU:HD21	1:1:564:MET:SD	2.53	0.49
1:6:404:GLN:HE22	1:6:443:ASP:H	1.61	0.49
1:8:152:LYS:NZ	1:8:169:ASN:OD1	2.29	0.49
1:A:44:ASN:O	1:E:250:THR:HA	2.12	0.49
1:A:314:TRP:CH2	1:A:327:VAL:HG23	2.48	0.49
1:B:404:GLN:HE22	1:B:443:ASP:H	1.61	0.49
1:C:523:LEU:HD21	1:L:50:TYR:CE2	2.48	0.49
1:D:187:TRP:O	1:D:482:GLN:NE2	2.46	0.49
1:D:314:TRP:CH2	1:D:327:VAL:HG23	2.48	0.49
1:E:404:GLN:HE22	1:E:443:ASP:H	1.61	0.49
1:I:37:HIS:CE1	1:J:34:GLY:HA2	2.47	0.49
1:J:385:ASP:OD1	1:J:386:ASP:N	2.45	0.49
1:J:425:GLN:HG2	1:J:426:GLU:H	1.78	0.49
1:J:534:LEU:HD21	1:J:564:MET:SD	2.53	0.49
1:J:547:LEU:HD13	1:a:243:LEU:HD22	1.95	0.49
1:N:183:ASN:HD21	1:N:478:GLY:HA3	1.76	0.49
1:N:314:TRP:CH2	1:N:327:VAL:HG23	2.48	0.49
1:N:404:GLN:HE22	1:N:443:ASP:H	1.61	0.49
1:O:183:ASN:HD21	1:O:478:GLY:HA3	1.76	0.49
1:O:547:LEU:HD13	1:P:243:LEU:HD22	1.95	0.49
1:Q:547:LEU:HD13	1:S:243:LEU:HD22	1.95	0.49
1:R:534:LEU:HD21	1:R:564:MET:SD	2.53	0.49
1:S:187:TRP:O	1:S:482:GLN:NE2	2.46	0.49
1:V:404:GLN:HE22	1:V:443:ASP:H	1.61	0.49
1:W:187:TRP:O	1:W:482:GLN:NE2	2.46	0.49
1:a:404:GLN:HE22	1:a:443:ASP:H	1.61	0.49
1:b:187:TRP:O	1:b:482:GLN:NE2	2.46	0.49
1:b:534:LEU:HD21	1:b:564:MET:SD	2.53	0.49
1:c:425:GLN:HG2	1:c:426:GLU:H	1.78	0.49
1:d:404:GLN:HE22	1:d:443:ASP:H	1.61	0.49
1:e:187:TRP:O	1:e:482:GLN:NE2	2.46	0.49
1:e:534:LEU:HD21	1:e:564:MET:SD	2.53	0.49
1:f:314:TRP:CH2	1:f:327:VAL:HG23	2.48	0.49
1:f:404:GLN:HE22	1:f:443:ASP:H	1.61	0.49
1:l:314:TRP:CH2	1:l:327:VAL:HG23	2.48	0.49
1:m:425:GLN:HG2	1:m:426:GLU:H	1.78	0.49
1:n:314:TRP:CH2	1:n:327:VAL:HG23	2.48	0.49
1:p:547:LEU:HD13	1:q:243:LEU:HD22	1.95	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:v:37:HIS:CE1	1:w:34:GLY:HA2	2.47	0.49
1:v:44:ASN:O	1:w:250:THR:HA	2.12	0.49
1:z:314:TRP:CH2	1:z:327:VAL:HG23	2.48	0.49
1:z:425:GLN:HG2	1:z:426:GLU:H	1.78	0.49
1:6:314:TRP:CH2	1:6:327:VAL:HG23	2.48	0.49
1:8:183:ASN:HD21	1:8:478:GLY:HA3	1.76	0.49
1:8:314:TRP:CH2	1:8:327:VAL:HG23	2.48	0.49
1:A:187:TRP:O	1:A:482:GLN:NE2	2.46	0.49
1:A:385:ASP:OD1	1:A:386:ASP:N	2.45	0.49
1:B:534:LEU:HD21	1:B:564:MET:SD	2.53	0.49
1:C:34:GLY:HA2	1:D:37:HIS:CE1	2.47	0.49
1:C:404:GLN:HE22	1:C:443:ASP:H	1.61	0.49
1:E:523:LEU:HD21	1:P:50:TYR:CE2	2.48	0.49
1:F:187:TRP:O	1:F:482:GLN:NE2	2.46	0.49
1:F:314:TRP:CH2	1:F:327:VAL:HG23	2.48	0.49
1:G:404:GLN:HE22	1:G:443:ASP:H	1.61	0.49
1:H:243:LEU:HD22	1:Z:547:LEU:HD13	1.95	0.49
1:K:547:LEU:HD13	1:L:243:LEU:HD22	1.95	0.49
1:M:250:THR:HA	1:c:44:ASN:O	2.12	0.49
1:N:523:LEU:HD21	1:O:50:TYR:CE2	2.48	0.49
1:R:404:GLN:HE22	1:R:443:ASP:H	1.61	0.49
1:T:547:LEU:HD13	1:U:243:LEU:HD22	1.95	0.49
1:Y:314:TRP:CH2	1:Y:327:VAL:HG23	2.48	0.49
1:Y:404:GLN:HE22	1:Y:443:ASP:H	1.61	0.49
1:Y:523:LEU:HD21	1:Z:50:TYR:CE2	2.48	0.49
1:b:314:TRP:CH2	1:b:327:VAL:HG23	2.48	0.49
1:c:314:TRP:CH2	1:c:327:VAL:HG23	2.48	0.49
1:e:314:TRP:CH2	1:e:327:VAL:HG23	2.48	0.49
1:g:547:LEU:HD13	1:1:243:LEU:HD22	1.95	0.49
1:h:385:ASP:OD1	1:h:386:ASP:N	2.45	0.49
1:j:404:GLN:HE22	1:j:443:ASP:H	1.61	0.49
1:k:314:TRP:CH2	1:k:327:VAL:HG23	2.48	0.49
1:n:534:LEU:HD21	1:n:564:MET:SD	2.53	0.49
1:o:385:ASP:OD1	1:o:386:ASP:N	2.45	0.49
1:q:50:TYR:CE2	1:x:523:LEU:HD21	2.48	0.49
1:s:425:GLN:HG2	1:s:426:GLU:H	1.78	0.49
1:t:534:LEU:HD21	1:t:564:MET:SD	2.53	0.49
1:u:34:GLY:HA2	1:5:37:HIS:CE1	2.46	0.49
1:u:523:LEU:HD21	1:1:50:TYR:CE2	2.48	0.49
1:w:534:LEU:HD21	1:w:564:MET:SD	2.53	0.49
1:z:243:LEU:HD22	1:4:547:LEU:HD13	1.95	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:z:385:ASP:OD1	1:z:386:ASP:N	2.45	0.49
1:1:187:TRP:O	1:1:482:GLN:NE2	2.46	0.49
1:3:314:TRP:CH2	1:3:327:VAL:HG23	2.48	0.49
1:5:404:GLN:HE22	1:5:443:ASP:H	1.61	0.49
1:8:534:LEU:HD21	1:8:564:MET:SD	2.53	0.49
1:F:385:ASP:OD1	1:F:386:ASP:N	2.45	0.48
1:G:523:LEU:HD21	1:H:50:TYR:CE2	2.48	0.48
1:G:534:LEU:HD21	1:G:564:MET:SD	2.53	0.48
1:I:39:THR:HG21	1:I:262:SER:HB3	1.95	0.48
1:I:187:TRP:O	1:I:482:GLN:NE2	2.46	0.48
1:J:381:TYR:HA	1:J:385:ASP:HB3	1.95	0.48
1:K:314:TRP:CH2	1:K:327:VAL:HG23	2.48	0.48
1:L:425:GLN:HG2	1:L:426:GLU:H	1.78	0.48
1:M:39:THR:HG21	1:M:262:SER:HB3	1.95	0.48
1:P:547:LEU:HD13	1:Q:243:LEU:HD22	1.95	0.48
1:Q:39:THR:HG21	1:Q:262:SER:HB3	1.95	0.48
1:S:547:LEU:HD13	1:d:243:LEU:HD22	1.95	0.48
1:U:425:GLN:HG2	1:U:426:GLU:H	1.78	0.48
1:V:34:GLY:HA2	1:W:37:HIS:CE1	2.47	0.48
1:W:314:TRP:CH2	1:W:327:VAL:HG23	2.48	0.48
1:X:39:THR:HG21	1:X:262:SER:HB3	1.95	0.48
1:X:250:THR:HA	1:f:44:ASN:O	2.12	0.48
1:a:39:THR:HG21	1:a:262:SER:HB3	1.95	0.48
1:j:37:HIS:CE1	1:x:34:GLY:HA2	2.46	0.48
1:j:523:LEU:HD21	1:w:50:TYR:CE2	2.48	0.48
1:k:243:LEU:HD22	1:w:547:LEU:HD13	1.95	0.48
1:l:34:GLY:HA2	1:n:37:HIS:CE1	2.47	0.48
1:l:404:GLN:HE22	1:l:443:ASP:H	1.61	0.48
1:m:547:LEU:HD13	1:s:243:LEU:HD22	1.95	0.48
1:p:425:GLN:HG2	1:p:426:GLU:H	1.78	0.48
1:q:187:TRP:O	1:q:482:GLN:NE2	2.46	0.48
1:q:381:TYR:HA	1:q:385:ASP:HB3	1.95	0.48
1:s:385:ASP:OD1	1:s:386:ASP:N	2.45	0.48
1:t:50:TYR:CE2	1:5:523:LEU:HD21	2.48	0.48
1:u:187:TRP:O	1:u:482:GLN:NE2	2.46	0.48
1:v:183:ASN:HD21	1:v:478:GLY:HA3	1.76	0.48
1:v:534:LEU:HD21	1:v:564:MET:SD	2.53	0.48
1:x:39:THR:HG21	1:x:262:SER:HB3	1.95	0.48
1:x:187:TRP:O	1:x:482:GLN:NE2	2.46	0.48
1:y:534:LEU:HD21	1:y:564:MET:SD	2.53	0.48
1:3:381:TYR:HA	1:3:385:ASP:HB3	1.95	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:3:534:LEU:HD21	1:3:564:MET:SD	2.53	0.48
1:4:425:GLN:HG2	1:4:426:GLU:H	1.78	0.48
1:8:404:GLN:HE22	1:8:443:ASP:H	1.61	0.48
1:B:39:THR:HG21	1:B:262:SER:HB3	1.95	0.48
1:E:534:LEU:HD21	1:E:564:MET:SD	2.53	0.48
1:H:547:LEU:HD13	1:I:243:LEU:HD22	1.95	0.48
1:I:425:GLN:HG2	1:I:426:GLU:H	1.78	0.48
1:N:39:THR:HG21	1:N:262:SER:HB3	1.95	0.48
1:N:385:ASP:OD1	1:N:386:ASP:N	2.45	0.48
1:O:381:TYR:HA	1:O:385:ASP:HB3	1.95	0.48
1:Q:385:ASP:OD1	1:Q:386:ASP:N	2.45	0.48
1:T:314:TRP:CH2	1:T:327:VAL:HG23	2.48	0.48
1:Z:39:THR:HG21	1:Z:262:SER:HB3	1.95	0.48
1:a:187:TRP:O	1:a:482:GLN:NE2	2.46	0.48
1:d:187:TRP:O	1:d:482:GLN:NE2	2.46	0.48
1:d:534:LEU:HD21	1:d:564:MET:SD	2.53	0.48
1:e:381:TYR:HA	1:e:385:ASP:HB3	1.96	0.48
1:g:50:TYR:CE2	1:z:523:LEU:HD21	2.48	0.48
1:h:187:TRP:O	1:h:482:GLN:NE2	2.46	0.48
1:i:39:THR:HG21	1:i:262:SER:HB3	1.95	0.48
1:j:34:GLY:HA2	1:l:37:HIS:CE1	2.47	0.48
1:j:187:TRP:O	1:j:482:GLN:NE2	2.46	0.48
1:j:243:LEU:HD22	1:l:547:LEU:HD13	1.95	0.48
1:l:534:LEU:HD21	1:l:564:MET:SD	2.53	0.48
1:n:243:LEU:HD22	1:r:547:LEU:HD13	1.95	0.48
1:n:381:TYR:HA	1:n:385:ASP:HB3	1.95	0.48
1:r:187:TRP:O	1:r:482:GLN:NE2	2.46	0.48
1:u:50:TYR:CE2	1:1:523:LEU:HD21	2.48	0.48
1:x:381:TYR:HA	1:x:385:ASP:HB3	1.95	0.48
1:2:187:TRP:O	1:2:482:GLN:NE2	2.46	0.48
1:2:404:GLN:HE22	1:2:443:ASP:H	1.61	0.48
1:3:39:THR:HG21	1:3:262:SER:HB3	1.95	0.48
1:5:187:TRP:O	1:5:482:GLN:NE2	2.46	0.48
1:D:404:GLN:HE22	1:D:443:ASP:H	1.61	0.48
1:D:425:GLN:HG2	1:D:426:GLU:H	1.78	0.48
1:E:314:TRP:CH2	1:E:327:VAL:HG23	2.48	0.48
1:F:39:THR:HG21	1:F:262:SER:HB3	1.95	0.48
1:F:44:ASN:O	1:G:250:THR:HA	2.12	0.48
1:G:314:TRP:CH2	1:G:327:VAL:HG23	2.48	0.48
1:H:82:ARG:NH1	1:H:236:LYS:HD3	2.29	0.48
1:H:381:TYR:HA	1:H:385:ASP:HB3	1.95	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:385:ASP:OD1	1:I:386:ASP:N	2.45	0.48
1:O:39:THR:HG21	1:O:262:SER:HB3	1.95	0.48
1:P:82:ARG:NH1	1:P:236:LYS:HD3	2.29	0.48
1:P:381:TYR:HA	1:P:385:ASP:HB3	1.95	0.48
1:P:425:GLN:HG2	1:P:426:GLU:H	1.78	0.48
1:Q:187:TRP:O	1:Q:482:GLN:NE2	2.46	0.48
1:Q:425:GLN:HG2	1:Q:426:GLU:H	1.78	0.48
1:R:39:THR:HG21	1:R:262:SER:HB3	1.96	0.48
1:R:314:TRP:CH2	1:R:327:VAL:HG23	2.48	0.48
1:U:381:TYR:HA	1:U:385:ASP:HB3	1.95	0.48
1:Y:39:THR:HG21	1:Y:262:SER:HB3	1.95	0.48
1:Y:385:ASP:OD1	1:Y:386:ASP:N	2.45	0.48
1:Z:381:TYR:HA	1:Z:385:ASP:HB3	1.96	0.48
1:a:385:ASP:OD1	1:a:386:ASP:N	2.45	0.48
1:a:534:LEU:HD21	1:a:564:MET:SD	2.53	0.48
1:b:381:TYR:HA	1:b:385:ASP:HB3	1.96	0.48
1:d:39:THR:HG21	1:d:262:SER:HB3	1.95	0.48
1:d:385:ASP:OD1	1:d:386:ASP:N	2.45	0.48
1:h:39:THR:HG21	1:h:262:SER:HB3	1.95	0.48
1:h:314:TRP:CH2	1:h:327:VAL:HG23	2.48	0.48
1:i:82:ARG:NH1	1:i:236:LYS:HD3	2.29	0.48
1:j:50:TYR:CE2	1:w:523:LEU:HD21	2.48	0.48
1:j:385:ASP:OD1	1:j:386:ASP:N	2.45	0.48
1:k:187:TRP:O	1:k:482:GLN:NE2	2.46	0.48
1:n:34:GLY:HA2	1:r:37:HIS:CE1	2.47	0.48
1:n:39:THR:HG21	1:n:262:SER:HB3	1.95	0.48
1:o:39:THR:HG21	1:o:262:SER:HB3	1.95	0.48
1:o:187:TRP:O	1:o:482:GLN:NE2	2.46	0.48
1:o:314:TRP:CH2	1:o:327:VAL:HG23	2.48	0.48
1:r:385:ASP:OD1	1:r:386:ASP:N	2.45	0.48
1:r:404:GLN:HE22	1:r:443:ASP:H	1.61	0.48
1:t:523:LEU:HD21	1:5:50:TYR:CE2	2.48	0.48
1:u:39:THR:HG21	1:u:262:SER:HB3	1.95	0.48
1:u:314:TRP:CH2	1:u:327:VAL:HG23	2.48	0.48
1:u:534:LEU:HD21	1:u:564:MET:SD	2.53	0.48
1:v:243:LEU:HD22	1:1:547:LEU:HD13	1.95	0.48
1:w:152:LYS:NZ	1:w:169:ASN:OD1	2.29	0.48
1:x:314:TRP:CH2	1:x:327:VAL:HG23	2.48	0.48
1:z:381:TYR:HA	1:z:385:ASP:HB3	1.95	0.48
1:1:381:TYR:HA	1:1:385:ASP:HB3	1.95	0.48
1:1:439:PHE:CE1	1:2:467:MET:HE2	2.49	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:3:37:HIS:CE1	1:8:34:GLY:HA2	2.47	0.48
1:4:534:LEU:HD21	1:4:564:MET:SD	2.53	0.48
1:6:187:TRP:O	1:6:482:GLN:NE2	2.46	0.48
1:7:39:THR:HG21	1:7:262:SER:HB3	1.95	0.48
1:7:82:ARG:NH1	1:7:236:LYS:HD3	2.29	0.48
1:A:39:THR:HG21	1:A:262:SER:HB3	1.95	0.48
1:A:523:LEU:HD21	1:F:50:TYR:CE2	2.49	0.48
1:C:314:TRP:CH2	1:C:327:VAL:HG23	2.48	0.48
1:H:425:GLN:HG2	1:H:426:GLU:H	1.78	0.48
1:J:37:HIS:CE1	1:a:34:GLY:HA2	2.47	0.48
1:J:50:TYR:CE2	1:K:523:LEU:HD21	2.48	0.48
1:K:187:TRP:O	1:K:482:GLN:NE2	2.46	0.48
1:S:50:TYR:CE2	1:T:523:LEU:HD21	2.48	0.48
1:S:381:TYR:HA	1:S:385:ASP:HB3	1.96	0.48
1:T:187:TRP:O	1:T:482:GLN:NE2	2.46	0.48
1:V:314:TRP:CH2	1:V:327:VAL:HG23	2.48	0.48
1:W:404:GLN:HE22	1:W:443:ASP:H	1.61	0.48
1:W:425:GLN:HG2	1:W:426:GLU:H	1.78	0.48
1:b:523:LEU:HD21	1:c:50:TYR:CE2	2.49	0.48
1:e:523:LEU:HD21	1:f:50:TYR:CE2	2.49	0.48
1:g:523:LEU:HD21	1:z:50:TYR:CE2	2.48	0.48
1:h:50:TYR:CE2	1:k:523:LEU:HD21	2.48	0.48
1:k:34:GLY:HA2	1:w:37:HIS:CE1	2.47	0.48
1:k:534:LEU:HD21	1:k:564:MET:SD	2.53	0.48
1:m:37:HIS:CE1	1:s:34:GLY:HA2	2.47	0.48
1:m:534:LEU:HD21	1:m:564:MET:SD	2.53	0.48
1:n:187:TRP:O	1:n:482:GLN:NE2	2.46	0.48
1:o:50:TYR:CE2	1:6:523:LEU:HD21	2.48	0.48
1:q:523:LEU:HD21	1:x:50:TYR:CE2	2.48	0.48
1:q:547:LEU:HD13	1:y:243:LEU:HD22	1.95	0.48
1:t:37:HIS:CE1	1:6:34:GLY:HA2	2.47	0.48
1:t:425:GLN:HG2	1:t:426:GLU:H	1.78	0.48
1:t:547:LEU:HD13	1:6:243:LEU:HD22	1.95	0.48
1:u:381:TYR:HA	1:u:385:ASP:HB3	1.96	0.48
1:v:314:TRP:CH2	1:v:327:VAL:HG23	2.48	0.48
1:w:82:ARG:NH1	1:w:236:LYS:HD3	2.29	0.48
1:x:534:LEU:HD21	1:x:564:MET:SD	2.53	0.48
1:y:183:ASN:HD21	1:y:478:GLY:HA3	1.76	0.48
1:y:314:TRP:CH2	1:y:327:VAL:HG23	2.48	0.48
1:2:385:ASP:OD1	1:2:386:ASP:N	2.45	0.48
1:3:187:TRP:O	1:3:482:GLN:NE2	2.46	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:5:34:GLY:HA2	1:8:37:HIS:CE1	2.47	0.48
1:5:243:LEU:HD22	1:8:547:LEU:HD13	1.95	0.48
1:5:381:TYR:HA	1:5:385:ASP:HB3	1.95	0.48
1:5:385:ASP:OD1	1:5:386:ASP:N	2.45	0.48
1:6:534:LEU:HD21	1:6:564:MET:SD	2.53	0.48
1:8:425:GLN:HG2	1:8:426:GLU:H	1.77	0.48
1:A:50:TYR:CE2	1:F:523:LEU:HD21	2.49	0.48
1:B:314:TRP:CH2	1:B:327:VAL:HG23	2.48	0.48
1:B:378:ILE:HD12	1:B:393:GLN:HG2	1.96	0.48
1:F:82:ARG:NH1	1:F:236:LYS:HD3	2.29	0.48
1:H:39:THR:HG21	1:H:262:SER:HB3	1.95	0.48
1:K:34:GLY:HA2	1:7:37:HIS:CE1	2.47	0.48
1:L:381:TYR:HA	1:L:385:ASP:HB3	1.96	0.48
1:O:243:LEU:HD22	1:d:547:LEU:HD13	1.96	0.48
1:O:425:GLN:HG2	1:O:426:GLU:H	1.78	0.48
1:R:378:ILE:HD12	1:R:393:GLN:HG2	1.96	0.48
1:R:404:GLN:NE2	1:R:443:ASP:H	2.12	0.48
1:S:37:HIS:CE1	1:d:34:GLY:HA2	2.47	0.48
1:Z:82:ARG:NH1	1:Z:236:LYS:HD3	2.29	0.48
1:Z:425:GLN:HG2	1:Z:426:GLU:H	1.78	0.48
1:a:50:TYR:CE2	1:3:523:LEU:HD21	2.49	0.48
1:d:50:TYR:CE2	1:n:523:LEU:HD21	2.49	0.48
1:j:381:TYR:HA	1:j:385:ASP:HB3	1.95	0.48
1:k:385:ASP:OD1	1:k:386:ASP:N	2.45	0.48
1:l:39:THR:HG21	1:l:262:SER:HB3	1.95	0.48
1:l:82:ARG:NH1	1:l:236:LYS:HD3	2.29	0.48
1:m:82:ARG:NH1	1:m:236:LYS:HD3	2.29	0.48
1:q:39:THR:HG21	1:q:262:SER:HB3	1.95	0.48
1:r:499:GLY:CA	1:r:503:ASN:HD21	2.09	0.48
1:t:82:ARG:NH1	1:t:236:LYS:HD3	2.29	0.48
1:t:152:LYS:NZ	1:t:169:ASN:OD1	2.29	0.48
1:y:499:GLY:CA	1:y:503:ASN:HD21	2.10	0.48
1:z:34:GLY:HA2	1:4:37:HIS:CE1	2.47	0.48
1:1:39:THR:HG21	1:1:262:SER:HB3	1.95	0.48
1:5:314:TRP:CH2	1:5:327:VAL:HG23	2.48	0.48
1:5:534:LEU:HD21	1:5:564:MET:SD	2.53	0.48
1:8:82:ARG:NH1	1:8:236:LYS:HD3	2.29	0.48
1:A:547:LEU:HD13	1:E:243:LEU:HD22	1.96	0.48
1:B:243:LEU:HD22	1:C:547:LEU:HD13	1.95	0.48
1:B:404:GLN:NE2	1:B:443:ASP:H	2.12	0.48
1:C:404:GLN:NE2	1:C:443:ASP:H	2.12	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:243:LEU:HD22	1:E:547:LEU:HD13	1.95	0.48
1:D:404:GLN:NE2	1:D:443:ASP:H	2.12	0.48
1:E:187:TRP:O	1:E:482:GLN:NE2	2.46	0.48
1:E:378:ILE:HD12	1:E:393:GLN:HG2	1.96	0.48
1:F:547:LEU:HD13	1:G:243:LEU:HD22	1.96	0.48
1:G:187:TRP:O	1:G:482:GLN:NE2	2.46	0.48
1:G:378:ILE:HD12	1:G:393:GLN:HG2	1.96	0.48
1:I:381:TYR:HA	1:I:385:ASP:HB3	1.95	0.48
1:I:404:GLN:HE22	1:I:443:ASP:H	1.61	0.48
1:K:385:ASP:OD1	1:K:386:ASP:N	2.45	0.48
1:N:82:ARG:NH1	1:N:236:LYS:HD3	2.29	0.48
1:N:381:TYR:HA	1:N:385:ASP:HB3	1.96	0.48
1:O:82:ARG:NH1	1:O:236:LYS:HD3	2.29	0.48
1:P:39:THR:HG21	1:P:262:SER:HB3	1.95	0.48
1:Q:404:GLN:HE22	1:Q:443:ASP:H	1.61	0.48
1:R:193:TYR:CE2	1:U:326:ARG:HD3	2.49	0.48
1:R:243:LEU:HD22	1:V:547:LEU:HD13	1.95	0.48
1:R:425:GLN:HG2	1:R:426:GLU:H	1.77	0.48
1:V:39:THR:HG21	1:V:262:SER:HB3	1.95	0.48
1:V:404:GLN:NE2	1:V:443:ASP:H	2.12	0.48
1:V:425:GLN:HG2	1:V:426:GLU:H	1.78	0.48
1:W:404:GLN:NE2	1:W:443:ASP:H	2.12	0.48
1:X:425:GLN:HG2	1:X:426:GLU:H	1.78	0.48
1:Z:243:LEU:HD22	1:a:547:LEU:HD13	1.96	0.48
1:a:82:ARG:NH1	1:a:236:LYS:HD3	2.29	0.48
1:a:381:TYR:HA	1:a:385:ASP:HB3	1.95	0.48
1:d:381:TYR:HA	1:d:385:ASP:HB3	1.95	0.48
1:f:243:LEU:HD22	1:z:547:LEU:HD13	1.95	0.48
1:g:39:THR:HG21	1:g:262:SER:HB3	1.95	0.48
1:h:82:ARG:NH1	1:h:236:LYS:HD3	2.29	0.48
1:j:39:THR:HG21	1:j:262:SER:HB3	1.95	0.48
1:j:314:TRP:CH2	1:j:327:VAL:HG23	2.48	0.48
1:j:534:LEU:HD21	1:j:564:MET:SD	2.53	0.48
1:n:82:ARG:NH1	1:n:236:LYS:HD3	2.29	0.48
1:o:82:ARG:NH1	1:o:236:LYS:HD3	2.29	0.48
1:q:425:GLN:HG2	1:q:426:GLU:H	1.78	0.48
1:r:243:LEU:HD22	1:x:547:LEU:HD13	1.95	0.48
1:s:381:TYR:HA	1:s:385:ASP:HB3	1.96	0.48
1:v:82:ARG:NH1	1:v:236:LYS:HD3	2.29	0.48
1:y:404:GLN:HE22	1:y:443:ASP:H	1.61	0.48
1:3:82:ARG:NH1	1:3:236:LYS:HD3	2.29	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:6:385:ASP:OD1	1:6:386:ASP:N	2.45	0.48
1:A:82:ARG:NH1	1:A:236:LYS:HD3	2.29	0.48
1:B:187:TRP:O	1:B:482:GLN:NE2	2.46	0.48
1:B:193:TYR:CE2	1:L:326:ARG:HD3	2.49	0.48
1:B:425:GLN:HG2	1:B:426:GLU:H	1.78	0.48
1:C:39:THR:HG21	1:C:262:SER:HB3	1.95	0.48
1:C:378:ILE:HD12	1:C:393:GLN:HG2	1.96	0.48
1:C:425:GLN:HG2	1:C:426:GLU:H	1.78	0.48
1:D:378:ILE:HD12	1:D:393:GLN:HG2	1.96	0.48
1:E:404:GLN:NE2	1:E:443:ASP:H	2.12	0.48
1:G:404:GLN:NE2	1:G:443:ASP:H	2.12	0.48
1:H:314:TRP:CH2	1:H:327:VAL:HG23	2.48	0.48
1:M:82:ARG:NH1	1:M:236:LYS:HD3	2.29	0.48
1:M:187:TRP:O	1:M:482:GLN:NE2	2.46	0.48
1:M:404:GLN:HE22	1:M:443:ASP:H	1.61	0.48
1:M:425:GLN:HG2	1:M:426:GLU:H	1.78	0.48
1:P:187:TRP:O	1:P:482:GLN:NE2	2.46	0.48
1:T:34:GLY:HA2	1:i:37:HIS:CE1	2.47	0.48
1:V:378:ILE:HD12	1:V:393:GLN:HG2	1.96	0.48
1:X:404:GLN:HE22	1:X:443:ASP:H	1.61	0.48
1:Y:82:ARG:NH1	1:Y:236:LYS:HD3	2.29	0.48
1:Y:425:GLN:HG2	1:Y:426:GLU:H	1.78	0.48
1:Z:314:TRP:CH2	1:Z:327:VAL:HG23	2.48	0.48
1:b:82:ARG:NH1	1:b:236:LYS:HD3	2.29	0.48
1:c:82:ARG:NH1	1:c:236:LYS:HD3	2.29	0.48
1:c:243:LEU:HD22	1:s:547:LEU:HD13	1.95	0.48
1:d:82:ARG:NH1	1:d:236:LYS:HD3	2.29	0.48
1:e:50:TYR:CE2	1:f:523:LEU:HD21	2.49	0.48
1:f:82:ARG:NH1	1:f:236:LYS:HD3	2.29	0.48
1:k:381:TYR:HA	1:k:385:ASP:HB3	1.95	0.48
1:l:187:TRP:O	1:l:482:GLN:NE2	2.46	0.48
1:n:425:GLN:HG2	1:n:426:GLU:H	1.78	0.48
1:p:39:THR:HG21	1:p:262:SER:HB3	1.96	0.48
1:p:50:TYR:CE2	1:s:523:LEU:HD21	2.48	0.48
1:p:523:LEU:HD21	1:s:50:TYR:CE2	2.48	0.48
1:q:314:TRP:CH2	1:q:327:VAL:HG23	2.48	0.48
1:w:425:GLN:HG2	1:w:426:GLU:H	1.78	0.48
1:y:82:ARG:NH1	1:y:236:LYS:HD3	2.29	0.48
1:1:314:TRP:CH2	1:1:327:VAL:HG23	2.48	0.48
1:1:425:GLN:HG2	1:1:426:GLU:H	1.78	0.48
1:4:82:ARG:NH1	1:4:236:LYS:HD3	2.29	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:5:39:THR:HG21	1:5:262:SER:HB3	1.95	0.48
1:5:378:ILE:HD12	1:5:393:GLN:HG2	1.96	0.48
1:5:425:GLN:HG2	1:5:426:GLU:H	1.78	0.48
1:6:381:TYR:HA	1:6:385:ASP:HB3	1.95	0.48
1:8:39:THR:HG21	1:8:262:SER:HB3	1.95	0.48
1:8:187:TRP:O	1:8:482:GLN:NE2	2.46	0.48
1:A:326:ARG:HD3	1:G:193:TYR:CE2	2.49	0.48
1:A:378:ILE:HD12	1:A:393:GLN:HG2	1.96	0.48
1:D:193:TYR:CE2	1:P:326:ARG:HD3	2.49	0.48
1:E:193:TYR:CE2	1:F:326:ARG:HD3	2.49	0.48
1:G:547:LEU:HD13	1:W:243:LEU:HD22	1.95	0.48
1:H:187:TRP:O	1:H:482:GLN:NE2	2.46	0.48
1:H:326:ARG:HD3	1:W:193:TYR:CE2	2.49	0.48
1:J:404:GLN:HE22	1:J:443:ASP:H	1.61	0.48
1:K:82:ARG:NH1	1:K:236:LYS:HD3	2.29	0.48
1:L:187:TRP:O	1:L:482:GLN:NE2	2.46	0.48
1:M:378:ILE:HD12	1:M:393:GLN:HG2	1.96	0.48
1:N:326:ARG:HD3	1:P:193:TYR:CE2	2.49	0.48
1:N:425:GLN:HG2	1:N:426:GLU:H	1.78	0.48
1:P:444:ASP:OD1	1:P:562:ARG:NH2	2.47	0.48
1:Q:314:TRP:CH2	1:Q:327:VAL:HG23	2.48	0.48
1:R:187:TRP:O	1:R:482:GLN:NE2	2.46	0.48
1:T:82:ARG:NH1	1:T:236:LYS:HD3	2.29	0.48
1:T:385:ASP:OD1	1:T:386:ASP:N	2.45	0.48
1:U:385:ASP:OD1	1:U:386:ASP:N	2.45	0.48
1:V:113:ILE:HG23	1:V:197:LEU:HD11	1.96	0.48
1:X:82:ARG:NH1	1:X:236:LYS:HD3	2.29	0.48
1:X:187:TRP:O	1:X:482:GLN:NE2	2.46	0.48
1:Y:381:TYR:HA	1:Y:385:ASP:HB3	1.96	0.48
1:a:314:TRP:CH2	1:a:327:VAL:HG23	2.48	0.48
1:a:444:ASP:OD1	1:a:562:ARG:NH2	2.47	0.48
1:b:404:GLN:NE2	1:b:443:ASP:H	2.12	0.48
1:d:113:ILE:HG23	1:d:197:LEU:HD11	1.96	0.48
1:e:82:ARG:NH1	1:e:236:LYS:HD3	2.29	0.48
1:e:404:GLN:NE2	1:e:443:ASP:H	2.12	0.48
1:i:193:TYR:CE2	1:k:326:ARG:HD3	2.49	0.48
1:j:82:ARG:NH1	1:j:236:LYS:HD3	2.29	0.48
1:j:378:ILE:HD12	1:j:393:GLN:HG2	1.96	0.48
1:k:39:THR:HG21	1:k:262:SER:HB3	1.95	0.48
1:l:381:TYR:HA	1:l:385:ASP:HB3	1.96	0.48
1:r:82:ARG:NH1	1:r:236:LYS:HD3	2.29	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:t:404:GLN:NE2	1:t:443:ASP:H	2.12	0.48
1:v:50:TYR:CE2	1:y:523:LEU:HD21	2.49	0.48
1:v:404:GLN:HE22	1:v:443:ASP:H	1.61	0.48
1:w:404:GLN:NE2	1:w:443:ASP:H	2.12	0.48
1:z:82:ARG:NH1	1:z:236:LYS:HD3	2.29	0.48
1:2:82:ARG:NH1	1:2:236:LYS:HD3	2.29	0.48
1:3:425:GLN:HG2	1:3:426:GLU:H	1.78	0.48
1:6:326:ARG:HD3	1:7:193:TYR:CE2	2.49	0.48
1:8:381:TYR:HA	1:8:385:ASP:HB3	1.95	0.48
1:B:444:ASP:OD1	1:B:562:ARG:NH2	2.47	0.48
1:C:113:ILE:HG23	1:C:197:LEU:HD11	1.96	0.48
1:D:82:ARG:NH1	1:D:236:LYS:HD3	2.29	0.48
1:D:113:ILE:HG23	1:D:197:LEU:HD11	1.96	0.48
1:F:378:ILE:HD12	1:F:393:GLN:HG2	1.96	0.48
1:G:444:ASP:OD1	1:G:562:ARG:NH2	2.47	0.48
1:H:193:TYR:CE2	1:Y:326:ARG:HD3	2.49	0.48
1:H:444:ASP:OD1	1:H:562:ARG:NH2	2.47	0.48
1:I:82:ARG:NH1	1:I:236:LYS:HD3	2.29	0.48
1:K:404:GLN:NE2	1:K:443:ASP:H	2.12	0.48
1:L:82:ARG:NH1	1:L:236:LYS:HD3	2.29	0.48
1:L:385:ASP:OD1	1:L:386:ASP:N	2.45	0.48
1:L:444:ASP:OD1	1:L:562:ARG:NH2	2.47	0.48
1:N:378:ILE:HD12	1:N:393:GLN:HG2	1.96	0.48
1:O:314:TRP:CH2	1:O:327:VAL:HG23	2.48	0.48
1:O:326:ARG:HD3	1:m:193:TYR:CE2	2.49	0.48
1:P:314:TRP:CH2	1:P:327:VAL:HG23	2.48	0.48
1:Q:82:ARG:NH1	1:Q:236:LYS:HD3	2.29	0.48
1:Q:381:TYR:HA	1:Q:385:ASP:HB3	1.96	0.48
1:R:444:ASP:OD1	1:R:562:ARG:NH2	2.47	0.48
1:S:404:GLN:HE22	1:S:443:ASP:H	1.61	0.48
1:U:39:THR:HG21	1:U:262:SER:HB3	1.95	0.48
1:U:187:TRP:O	1:U:482:GLN:NE2	2.46	0.48
1:U:444:ASP:OD1	1:U:562:ARG:NH2	2.47	0.48
1:W:113:ILE:HG23	1:W:197:LEU:HD11	1.96	0.48
1:W:378:ILE:HD12	1:W:393:GLN:HG2	1.96	0.48
1:X:113:ILE:HG23	1:X:197:LEU:HD11	1.96	0.48
1:X:243:LEU:HD22	1:f:547:LEU:HD13	1.96	0.48
1:Y:378:ILE:HD12	1:Y:393:GLN:HG2	1.96	0.48
1:a:113:ILE:HG23	1:a:197:LEU:HD11	1.96	0.48
1:b:50:TYR:CE2	1:c:523:LEU:HD21	2.49	0.48
1:b:444:ASP:OD1	1:b:562:ARG:NH2	2.47	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:c:113:ILE:HG23	1:c:197:LEU:HD11	1.96	0.48
1:d:314:TRP:CH2	1:d:327:VAL:HG23	2.48	0.48
1:d:444:ASP:OD1	1:d:562:ARG:NH2	2.47	0.48
1:e:444:ASP:OD1	1:e:562:ARG:NH2	2.47	0.48
1:f:113:ILE:HG23	1:f:197:LEU:HD11	1.96	0.48
1:f:187:TRP:O	1:f:482:GLN:NE2	2.46	0.48
1:i:113:ILE:HG23	1:i:197:LEU:HD11	1.96	0.48
1:l:425:GLN:HG2	1:l:426:GLU:H	1.78	0.48
1:m:523:LEU:HD21	1:r:50:TYR:CE2	2.48	0.48
1:r:314:TRP:CH2	1:r:327:VAL:HG23	2.48	0.48
1:r:378:ILE:HD12	1:r:393:GLN:HG2	1.96	0.48
1:s:39:THR:HG21	1:s:262:SER:HB3	1.96	0.48
1:s:82:ARG:NH1	1:s:236:LYS:HD3	2.29	0.48
1:s:404:GLN:HE22	1:s:443:ASP:H	1.61	0.48
1:u:113:ILE:HG23	1:u:197:LEU:HD11	1.96	0.48
1:v:39:THR:HG21	1:v:262:SER:HB3	1.95	0.48
1:v:523:LEU:HD21	1:y:50:TYR:CE2	2.49	0.48
1:w:326:ARG:HD3	1:x:193:TYR:CE2	2.49	0.48
1:w:444:ASP:OD1	1:w:562:ARG:NH2	2.47	0.48
1:x:113:ILE:HG23	1:x:197:LEU:HD11	1.96	0.48
1:y:39:THR:HG21	1:y:262:SER:HB3	1.95	0.48
1:z:39:THR:HG21	1:z:262:SER:HB3	1.96	0.48
1:2:314:TRP:CH2	1:2:327:VAL:HG23	2.48	0.48
1:2:499:GLY:CA	1:2:503:ASN:HD21	2.10	0.48
1:5:82:ARG:NH1	1:5:236:LYS:HD3	2.29	0.48
1:7:113:ILE:HG23	1:7:197:LEU:HD11	1.96	0.48
1:E:381:TYR:HA	1:E:385:ASP:HB3	1.96	0.48
1:E:444:ASP:OD1	1:E:562:ARG:NH2	2.47	0.48
1:G:381:TYR:HA	1:G:385:ASP:HB3	1.96	0.48
1:I:314:TRP:CH2	1:I:327:VAL:HG23	2.48	0.48
1:J:113:ILE:HG23	1:J:197:LEU:HD11	1.96	0.48
1:J:314:TRP:CH2	1:J:327:VAL:HG23	2.48	0.48
1:K:193:TYR:CE2	1:8:326:ARG:HD3	2.49	0.48
1:L:39:THR:HG21	1:L:262:SER:HB3	1.95	0.48
1:L:314:TRP:CH2	1:L:327:VAL:HG23	2.48	0.48
1:L:547:LEU:HD13	1:b:243:LEU:HD22	1.95	0.48
1:M:113:ILE:HG23	1:M:197:LEU:HD11	1.96	0.48
1:M:243:LEU:HD22	1:c:547:LEU:HD13	1.96	0.48
1:U:82:ARG:NH1	1:U:236:LYS:HD3	2.29	0.48
1:U:547:LEU:HD13	1:e:243:LEU:HD22	1.95	0.48
1:W:82:ARG:NH1	1:W:236:LYS:HD3	2.29	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Z:326:ARG:HD3	1:4:193:TYR:CE2	2.49	0.48
1:g:381:TYR:HA	1:g:385:ASP:HB3	1.96	0.48
1:h:146:LEU:HD22	1:h:511:PHE:CD1	2.49	0.48
1:h:404:GLN:NE2	1:h:443:ASP:H	2.12	0.48
1:h:523:LEU:HD21	1:k:50:TYR:CE2	2.48	0.48
1:i:314:TRP:CH2	1:i:327:VAL:HG23	2.48	0.48
1:j:425:GLN:HG2	1:j:426:GLU:H	1.78	0.48
1:k:82:ARG:NH1	1:k:236:LYS:HD3	2.29	0.48
1:m:314:TRP:CH2	1:m:327:VAL:HG23	2.48	0.48
1:o:146:LEU:HD22	1:o:511:PHE:CD1	2.49	0.48
1:o:404:GLN:NE2	1:o:443:ASP:H	2.12	0.48
1:r:34:GLY:HA2	1:x:37:HIS:CE1	2.47	0.48
1:t:326:ARG:HD3	1:u:193:TYR:CE2	2.49	0.48
1:t:444:ASP:OD1	1:t:562:ARG:NH2	2.47	0.48
1:u:82:ARG:NH1	1:u:236:LYS:HD3	2.29	0.48
1:v:404:GLN:NE2	1:v:443:ASP:H	2.12	0.48
1:x:82:ARG:NH1	1:x:236:LYS:HD3	2.29	0.48
1:y:146:LEU:HD22	1:y:511:PHE:CD1	2.49	0.48
1:y:404:GLN:NE2	1:y:443:ASP:H	2.12	0.48
1:y:425:GLN:HG2	1:y:426:GLU:H	1.78	0.48
1:z:326:ARG:HD3	1:1:193:TYR:CE2	2.49	0.48
1:1:113:ILE:HG23	1:1:197:LEU:HD11	1.96	0.48
1:2:378:ILE:HD12	1:2:393:GLN:HG2	1.96	0.48
1:4:39:THR:HG21	1:4:262:SER:HB3	1.95	0.48
1:6:39:THR:HG21	1:6:262:SER:HB3	1.95	0.48
1:6:82:ARG:NH1	1:6:236:LYS:HD3	2.29	0.48
1:A:193:TYR:CE2	1:I:326:ARG:HD3	2.49	0.47
1:A:444:ASP:OD1	1:A:562:ARG:NH2	2.47	0.47
1:B:82:ARG:NH1	1:B:236:LYS:HD3	2.29	0.47
1:C:193:TYR:CE2	1:M:326:ARG:HD3	2.49	0.47
1:F:444:ASP:OD1	1:F:562:ARG:NH2	2.47	0.47
1:J:146:LEU:HD22	1:J:511:PHE:CD1	2.49	0.47
1:M:193:TYR:CE2	1:b:326:ARG:HD3	2.49	0.47
1:N:146:LEU:HD22	1:N:511:PHE:CD1	2.49	0.47
1:O:187:TRP:O	1:O:482:GLN:NE2	2.46	0.47
1:Q:113:ILE:HG23	1:Q:197:LEU:HD11	1.96	0.47
1:S:113:ILE:HG23	1:S:197:LEU:HD11	1.96	0.47
1:S:146:LEU:HD22	1:S:511:PHE:CD1	2.49	0.47
1:S:314:TRP:CH2	1:S:327:VAL:HG23	2.48	0.47
1:S:326:ARG:HD3	1:U:193:TYR:CE2	2.49	0.47
1:T:193:TYR:CE2	1:l:326:ARG:HD3	2.49	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:T:404:GLN:NE2	1:T:443:ASP:H	2.12	0.47
1:X:193:TYR:CE2	1:e:326:ARG:HD3	2.49	0.47
1:X:378:ILE:HD12	1:X:393:GLN:HG2	1.96	0.47
1:Y:146:LEU:HD22	1:Y:511:PHE:CD1	2.49	0.47
1:b:113:ILE:HG23	1:b:197:LEU:HD11	1.96	0.47
1:c:187:TRP:O	1:c:482:GLN:NE2	2.46	0.47
1:c:326:ARG:HD3	1:o:193:TYR:CE2	2.49	0.47
1:e:113:ILE:HG23	1:e:197:LEU:HD11	1.96	0.47
1:f:193:TYR:CE2	1:g:326:ARG:HD3	2.49	0.47
1:f:326:ARG:HD3	1:h:193:TYR:CE2	2.49	0.47
1:h:381:TYR:HA	1:h:385:ASP:HB3	1.96	0.47
1:p:381:TYR:HA	1:p:385:ASP:HB3	1.95	0.47
1:q:378:ILE:HD12	1:q:393:GLN:HG2	1.96	0.47
1:s:404:GLN:NE2	1:s:443:ASP:H	2.12	0.47
1:t:381:TYR:HA	1:t:385:ASP:HB3	1.96	0.47
1:v:146:LEU:HD22	1:v:511:PHE:CD1	2.49	0.47
1:v:381:TYR:HA	1:v:385:ASP:HB3	1.95	0.47
1:v:425:GLN:HG2	1:v:426:GLU:H	1.78	0.47
1:w:314:TRP:CH2	1:w:327:VAL:HG23	2.48	0.47
1:z:404:GLN:HE22	1:z:443:ASP:H	1.61	0.47
1:1:378:ILE:HD12	1:1:393:GLN:HG2	1.96	0.47
1:2:444:ASP:OD1	1:2:562:ARG:NH2	2.47	0.47
1:7:314:TRP:CH2	1:7:327:VAL:HG23	2.48	0.47
1:8:113:ILE:HG23	1:8:197:LEU:HD11	1.96	0.47
1:B:381:TYR:HA	1:B:385:ASP:HB3	1.96	0.47
1:C:146:LEU:HD22	1:C:511:PHE:CD1	2.49	0.47
1:D:444:ASP:OD1	1:D:562:ARG:NH2	2.47	0.47
1:E:39:THR:HG21	1:E:262:SER:HB3	1.95	0.47
1:E:113:ILE:HG23	1:E:197:LEU:HD11	1.96	0.47
1:F:146:LEU:HD22	1:F:511:PHE:CD1	2.49	0.47
1:F:193:TYR:CE2	1:Q:326:ARG:HD3	2.49	0.47
1:H:146:LEU:HD22	1:H:511:PHE:CD1	2.49	0.47
1:H:404:GLN:NE2	1:H:443:ASP:H	2.12	0.47
1:I:113:ILE:HG23	1:I:197:LEU:HD11	1.96	0.47
1:J:326:ARG:HD3	1:L:193:TYR:CE2	2.49	0.47
1:L:378:ILE:HD12	1:L:393:GLN:HG2	1.96	0.47
1:L:404:GLN:NE2	1:L:443:ASP:H	2.12	0.47
1:O:404:GLN:NE2	1:O:443:ASP:H	2.12	0.47
1:P:404:GLN:NE2	1:P:443:ASP:H	2.12	0.47
1:R:82:ARG:NH1	1:R:236:LYS:HD3	2.29	0.47
1:T:404:GLN:HE22	1:T:443:ASP:H	1.61	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:U:314:TRP:CH2	1:U:327:VAL:HG23	2.48	0.47
1:V:146:LEU:HD22	1:V:511:PHE:CD1	2.49	0.47
1:V:193:TYR:CE2	1:X:326:ARG:HD3	2.49	0.47
1:X:547:LEU:HD13	1:Y:243:LEU:HD22	1.95	0.47
1:Y:404:GLN:NE2	1:Y:443:ASP:H	2.12	0.47
1:Z:187:TRP:O	1:Z:482:GLN:NE2	2.46	0.47
1:c:193:TYR:CE2	1:p:326:ARG:HD3	2.49	0.47
1:d:378:ILE:HD12	1:d:393:GLN:HG2	1.96	0.47
1:e:39:THR:HG21	1:e:262:SER:HB3	1.95	0.47
1:h:113:ILE:HG23	1:h:197:LEU:HD11	1.96	0.47
1:l:113:ILE:HG23	1:l:197:LEU:HD11	1.96	0.47
1:l:146:LEU:HD22	1:l:511:PHE:CD1	2.49	0.47
1:l:243:LEU:HD22	1:n:547:LEU:HD13	1.96	0.47
1:m:39:THR:HG21	1:m:262:SER:HB3	1.95	0.47
1:o:381:TYR:HA	1:o:385:ASP:HB3	1.96	0.47
1:o:523:LEU:HD21	1:6:50:TYR:CE2	2.48	0.47
1:p:82:ARG:NH1	1:p:236:LYS:HD3	2.29	0.47
1:q:113:ILE:HG23	1:q:197:LEU:HD11	1.96	0.47
1:r:444:ASP:OD1	1:r:562:ARG:NH2	2.47	0.47
1:t:314:TRP:CH2	1:t:327:VAL:HG23	2.48	0.47
1:w:381:TYR:HA	1:w:385:ASP:HB3	1.96	0.47
1:y:187:TRP:O	1:y:482:GLN:NE2	2.46	0.47
1:z:404:GLN:NE2	1:z:443:ASP:H	2.12	0.47
1:4:314:TRP:CH2	1:4:327:VAL:HG23	2.48	0.47
1:5:113:ILE:HG23	1:5:197:LEU:HD11	1.96	0.47
1:8:146:LEU:HD22	1:8:511:PHE:CD1	2.49	0.47
1:A:146:LEU:HD22	1:A:511:PHE:CD1	2.49	0.47
1:B:50:TYR:CE2	1:I:523:LEU:HD21	2.48	0.47
1:B:113:ILE:HG23	1:B:197:LEU:HD11	1.96	0.47
1:C:82:ARG:NH1	1:C:236:LYS:HD3	2.29	0.47
1:F:404:GLN:NE2	1:F:443:ASP:H	2.12	0.47
1:H:113:ILE:HG23	1:H:197:LEU:HD11	1.96	0.47
1:K:404:GLN:HE22	1:K:443:ASP:H	1.61	0.47
1:L:113:ILE:HG23	1:L:197:LEU:HD11	1.96	0.47
1:N:404:GLN:NE2	1:N:443:ASP:H	2.12	0.47
1:P:146:LEU:HD22	1:P:511:PHE:CD1	2.49	0.47
1:R:113:ILE:HG23	1:R:197:LEU:HD11	1.96	0.47
1:R:326:ARG:HD3	1:S:193:TYR:CE2	2.49	0.47
1:R:381:TYR:HA	1:R:385:ASP:HB3	1.96	0.47
1:U:113:ILE:HG23	1:U:197:LEU:HD11	1.96	0.47
1:U:378:ILE:HD12	1:U:393:GLN:HG2	1.96	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:W:444:ASP:OD1	1:W:562:ARG:NH2	2.47	0.47
1:Z:404:GLN:NE2	1:Z:443:ASP:H	2.12	0.47
1:a:326:ARG:HD3	1:8:193:TYR:CE2	2.49	0.47
1:a:378:ILE:HD12	1:a:393:GLN:HG2	1.96	0.47
1:a:523:LEU:HD21	1:3:50:TYR:CE2	2.49	0.47
1:d:523:LEU:HD21	1:n:50:TYR:CE2	2.49	0.47
1:g:378:ILE:HD12	1:g:393:GLN:HG2	1.96	0.47
1:j:113:ILE:HG23	1:j:197:LEU:HD11	1.96	0.47
1:o:113:ILE:HG23	1:o:197:LEU:HD11	1.96	0.47
1:p:378:ILE:HD12	1:p:393:GLN:HG2	1.96	0.47
1:q:146:LEU:HD22	1:q:511:PHE:CD1	2.49	0.47
1:r:404:GLN:NE2	1:r:443:ASP:H	2.12	0.47
1:t:146:LEU:HD22	1:t:511:PHE:CD1	2.49	0.47
1:u:404:GLN:NE2	1:u:443:ASP:H	2.12	0.47
1:v:187:TRP:O	1:v:482:GLN:NE2	2.46	0.47
1:x:404:GLN:NE2	1:x:443:ASP:H	2.12	0.47
1:y:381:TYR:HA	1:y:385:ASP:HB3	1.96	0.47
1:1:146:LEU:HD22	1:1:511:PHE:CD1	2.49	0.47
1:2:404:GLN:NE2	1:2:443:ASP:H	2.12	0.47
1:A:404:GLN:NE2	1:A:443:ASP:H	2.12	0.47
1:A:404:GLN:HE22	1:A:443:ASP:H	1.61	0.47
1:D:146:LEU:HD22	1:D:511:PHE:CD1	2.49	0.47
1:D:326:ARG:HD3	1:N:193:TYR:CE2	2.49	0.47
1:F:452:GLY:HA2	1:F:470:HIS:HE1	1.80	0.47
1:G:39:THR:HG21	1:G:262:SER:HB3	1.95	0.47
1:G:113:ILE:HG23	1:G:197:LEU:HD11	1.96	0.47
1:H:378:ILE:HD12	1:H:393:GLN:HG2	1.96	0.47
1:I:378:ILE:HD12	1:I:393:GLN:HG2	1.96	0.47
1:P:113:ILE:HG23	1:P:197:LEU:HD11	1.96	0.47
1:T:452:GLY:HA2	1:T:470:HIS:HE1	1.80	0.47
1:U:404:GLN:NE2	1:U:443:ASP:H	2.12	0.47
1:V:82:ARG:NH1	1:V:236:LYS:HD3	2.29	0.47
1:V:452:GLY:HA2	1:V:470:HIS:HE1	1.80	0.47
1:W:326:ARG:HD3	1:Y:193:TYR:CE2	2.49	0.47
1:X:404:GLN:NE2	1:X:443:ASP:H	2.12	0.47
1:g:82:ARG:NH1	1:g:236:LYS:HD3	2.29	0.47
1:h:547:LEU:HD13	1:i:243:LEU:HD22	1.95	0.47
1:i:326:ARG:HD3	1:j:193:TYR:CE2	2.49	0.47
1:l:444:ASP:OD1	1:l:562:ARG:NH2	2.47	0.47
1:l:452:GLY:HA2	1:l:470:HIS:HE1	1.80	0.47
1:n:146:LEU:HD22	1:n:511:PHE:CD1	2.49	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:q:193:TYR:CE2	1:s:326:ARG:HD3	2.49	0.47
1:r:146:LEU:HD22	1:r:511:PHE:CD1	2.49	0.47
1:u:326:ARG:HD3	1:v:193:TYR:CE2	2.49	0.47
1:w:146:LEU:HD22	1:w:511:PHE:CD1	2.49	0.47
1:1:82:ARG:NH1	1:1:236:LYS:HD3	2.29	0.47
1:2:146:LEU:HD22	1:2:511:PHE:CD1	2.49	0.47
1:5:146:LEU:HD22	1:5:511:PHE:CD1	2.49	0.47
1:8:452:GLY:HA2	1:8:470:HIS:HE1	1.80	0.47
1:A:452:GLY:HA2	1:A:470:HIS:HE1	1.80	0.47
1:B:326:ARG:HD3	1:J:193:TYR:CE2	2.49	0.47
1:C:187:TRP:O	1:C:482:GLN:NE2	2.46	0.47
1:C:381:TYR:HA	1:C:385:ASP:HB3	1.95	0.47
1:C:452:GLY:HA2	1:C:470:HIS:HE1	1.80	0.47
1:E:357:SER:HB3	1:E:402:THR:HG22	1.97	0.47
1:G:280:HIS:HB3	1:G:568:THR:HG1	1.80	0.47
1:H:357:SER:HB3	1:H:402:THR:HG22	1.97	0.47
1:J:39:THR:HG21	1:J:262:SER:HB3	1.95	0.47
1:J:82:ARG:NH1	1:J:236:LYS:HD3	2.29	0.47
1:J:444:ASP:OD1	1:J:562:ARG:NH2	2.47	0.47
1:K:279:TYR:HB2	1:K:401:ILE:HG12	1.97	0.47
1:K:444:ASP:OD1	1:K:562:ARG:NH2	2.47	0.47
1:M:444:ASP:OD1	1:M:562:ARG:NH2	2.47	0.47
1:M:547:LEU:HD13	1:N:243:LEU:HD22	1.95	0.47
1:P:357:SER:HB3	1:P:402:THR:HG22	1.97	0.47
1:S:39:THR:HG21	1:S:262:SER:HB3	1.95	0.47
1:S:444:ASP:OD1	1:S:562:ARG:NH2	2.47	0.47
1:T:39:THR:HG21	1:T:262:SER:HB3	1.95	0.47
1:T:279:TYR:HB2	1:T:401:ILE:HG12	1.97	0.47
1:T:444:ASP:OD1	1:T:562:ARG:NH2	2.47	0.47
1:V:187:TRP:O	1:V:482:GLN:NE2	2.46	0.47
1:V:381:TYR:HA	1:V:385:ASP:HB3	1.95	0.47
1:V:444:ASP:OD1	1:V:562:ARG:NH2	2.47	0.47
1:W:39:THR:HG21	1:W:262:SER:HB3	1.95	0.47
1:W:146:LEU:HD22	1:W:511:PHE:CD1	2.49	0.47
1:X:444:ASP:OD1	1:X:562:ARG:NH2	2.47	0.47
1:Z:193:TYR:CE2	1:3:326:ARG:HD3	2.49	0.47
1:b:547:LEU:HD13	1:o:243:LEU:HD22	1.96	0.47
1:c:39:THR:HG21	1:c:262:SER:HB3	1.95	0.47
1:e:547:LEU:HD13	1:h:243:LEU:HD22	1.96	0.47
1:f:39:THR:HG21	1:f:262:SER:HB3	1.95	0.47
1:g:404:GLN:NE2	1:g:443:ASP:H	2.12	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:i:444:ASP:OD1	1:i:562:ARG:NH2	2.47	0.47
1:j:146:LEU:HD22	1:j:511:PHE:CD1	2.49	0.47
1:j:279:TYR:HB2	1:j:401:ILE:HG12	1.97	0.47
1:m:404:GLN:NE2	1:m:443:ASP:H	2.12	0.47
1:m:452:GLY:HA2	1:m:470:HIS:HE1	1.80	0.47
1:o:452:GLY:HA2	1:o:470:HIS:HE1	1.80	0.47
1:o:547:LEU:HD13	1:7:243:LEU:HD22	1.95	0.47
1:q:82:ARG:NH1	1:q:236:LYS:HD3	2.29	0.47
1:r:39:THR:HG21	1:r:262:SER:HB3	1.95	0.47
1:s:187:TRP:O	1:s:482:GLN:NE2	2.46	0.47
1:t:378:ILE:HD12	1:t:393:GLN:HG2	1.96	0.47
1:u:452:GLY:HA2	1:u:470:HIS:HE1	1.80	0.47
1:v:444:ASP:OD1	1:v:562:ARG:NH2	2.47	0.47
1:w:378:ILE:HD12	1:w:393:GLN:HG2	1.96	0.47
1:x:326:ARG:HD3	1:y:193:TYR:CE2	2.49	0.47
1:y:444:ASP:OD1	1:y:562:ARG:NH2	2.47	0.47
1:z:187:TRP:O	1:z:482:GLN:NE2	2.46	0.47
1:2:39:THR:HG21	1:2:262:SER:HB3	1.95	0.47
1:3:547:LEU:HD13	1:8:243:LEU:HD22	1.96	0.47
1:4:452:GLY:HA2	1:4:470:HIS:HE1	1.80	0.47
1:5:193:TYR:CE2	1:7:326:ARG:HD3	2.49	0.47
1:6:378:ILE:HD12	1:6:393:GLN:HG2	1.96	0.47
1:8:404:GLN:NE2	1:8:443:ASP:H	2.12	0.47
1:8:444:ASP:OD1	1:8:562:ARG:NH2	2.47	0.47
1:C:444:ASP:OD1	1:C:562:ARG:NH2	2.47	0.47
1:G:357:SER:HB3	1:G:402:THR:HG22	1.97	0.47
1:J:404:GLN:NE2	1:J:443:ASP:H	2.12	0.47
1:K:452:GLY:HA2	1:K:470:HIS:HE1	1.80	0.47
1:M:404:GLN:NE2	1:M:443:ASP:H	2.12	0.47
1:N:279:TYR:HB2	1:N:401:ILE:HG12	1.97	0.47
1:O:193:TYR:CE2	1:n:326:ARG:HD3	2.49	0.47
1:P:378:ILE:HD12	1:P:393:GLN:HG2	1.96	0.47
1:Q:378:ILE:HD12	1:Q:393:GLN:HG2	1.96	0.47
1:Q:523:LEU:HD21	1:R:50:TYR:CE2	2.48	0.47
1:W:381:TYR:HA	1:W:385:ASP:HB3	1.96	0.47
1:W:452:GLY:HA2	1:W:470:HIS:HE1	1.80	0.47
1:a:404:GLN:NE2	1:a:443:ASP:H	2.12	0.47
1:a:439:PHE:CE1	1:8:467:MET:HE2	2.50	0.47
1:a:452:GLY:HA2	1:a:470:HIS:HE1	1.80	0.47
1:b:39:THR:HG21	1:b:262:SER:HB3	1.95	0.47
1:d:326:ARG:HD3	1:l:193:TYR:CE2	2.49	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:d:404:GLN:NE2	1:d:443:ASP:H	2.12	0.47
1:d:439:PHE:CE1	1:l:467:MET:HE2	2.50	0.47
1:d:452:GLY:HA2	1:d:470:HIS:HE1	1.80	0.47
1:h:452:GLY:HA2	1:h:470:HIS:HE1	1.80	0.47
1:k:378:ILE:HD12	1:k:393:GLN:HG2	1.96	0.47
1:n:404:GLN:NE2	1:n:443:ASP:H	2.12	0.47
1:o:444:ASP:OD1	1:o:562:ARG:NH2	2.47	0.47
1:p:404:GLN:NE2	1:p:443:ASP:H	2.12	0.47
1:r:279:TYR:HB2	1:r:401:ILE:HG12	1.97	0.47
1:r:452:GLY:HA2	1:r:470:HIS:HE1	1.80	0.47
1:s:146:LEU:HD22	1:s:511:PHE:CD1	2.49	0.47
1:s:452:GLY:HA2	1:s:470:HIS:HE1	1.80	0.47
1:u:146:LEU:HD22	1:u:511:PHE:CD1	2.49	0.47
1:w:39:THR:HG21	1:w:262:SER:HB3	1.95	0.47
1:x:146:LEU:HD22	1:x:511:PHE:CD1	2.50	0.47
1:x:452:GLY:HA2	1:x:470:HIS:HE1	1.80	0.47
1:y:378:ILE:HD12	1:y:393:GLN:HG2	1.96	0.47
1:z:146:LEU:HD22	1:z:511:PHE:CD1	2.49	0.47
1:2:279:TYR:HB2	1:2:401:ILE:HG12	1.97	0.47
1:2:381:TYR:HA	1:2:385:ASP:HB3	1.95	0.47
1:2:452:GLY:HA2	1:2:470:HIS:HE1	1.80	0.47
1:3:146:LEU:HD22	1:3:511:PHE:CD1	2.49	0.47
1:3:279:TYR:HB2	1:3:401:ILE:HG12	1.97	0.47
1:3:450:PRO:HB2	1:3:451:TRP:CD2	2.50	0.47
1:4:404:GLN:NE2	1:4:443:ASP:H	2.12	0.47
1:5:279:TYR:HB2	1:5:401:ILE:HG12	1.97	0.47
1:5:444:ASP:OD1	1:5:562:ARG:NH2	2.47	0.47
1:7:146:LEU:HD22	1:7:511:PHE:CD1	2.49	0.47
1:7:444:ASP:OD1	1:7:562:ARG:NH2	2.47	0.47
1:C:243:LEU:HD22	1:D:547:LEU:HD13	1.95	0.47
1:D:39:THR:HG21	1:D:262:SER:HB3	1.95	0.47
1:D:158:GLY:HA3	1:D:163:GLU:HA	1.97	0.47
1:D:381:TYR:HA	1:D:385:ASP:HB3	1.96	0.47
1:D:450:PRO:HB2	1:D:451:TRP:CD2	2.50	0.47
1:D:452:GLY:HA2	1:D:470:HIS:HE1	1.80	0.47
1:E:279:TYR:HB2	1:E:401:ILE:HG12	1.97	0.47
1:E:280:HIS:HB3	1:E:568:THR:HG1	1.80	0.47
1:E:452:GLY:HA2	1:E:470:HIS:HE1	1.80	0.47
1:F:113:ILE:HG23	1:F:197:LEU:HD11	1.96	0.47
1:F:243:LEU:HD22	1:R:547:LEU:HD13	1.95	0.47
1:F:404:GLN:HE22	1:F:443:ASP:H	1.61	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:279:TYR:HB2	1:G:401:ILE:HG12	1.97	0.47
1:G:326:ARG:HD3	1:I:193:TYR:CE2	2.49	0.47
1:G:452:GLY:HA2	1:G:470:HIS:HE1	1.80	0.47
1:H:404:GLN:HE22	1:H:443:ASP:H	1.61	0.47
1:H:450:PRO:HB2	1:H:451:TRP:CD2	2.50	0.47
1:I:404:GLN:NE2	1:I:443:ASP:H	2.12	0.47
1:J:279:TYR:HB2	1:J:401:ILE:HG12	1.97	0.47
1:J:439:PHE:CE1	1:L:467:MET:HE2	2.50	0.47
1:K:39:THR:HG21	1:K:262:SER:HB3	1.95	0.47
1:L:146:LEU:HD22	1:L:511:PHE:CD1	2.49	0.47
1:L:279:TYR:HB2	1:L:401:ILE:HG12	1.97	0.47
1:L:450:PRO:HB2	1:L:451:TRP:CD2	2.50	0.47
1:M:381:TYR:HA	1:M:385:ASP:HB3	1.95	0.47
1:N:357:SER:HB3	1:N:402:THR:HG22	1.97	0.47
1:N:444:ASP:OD1	1:N:562:ARG:NH2	2.47	0.47
1:O:113:ILE:HG23	1:O:197:LEU:HD11	1.96	0.47
1:O:146:LEU:HD22	1:O:511:PHE:CD1	2.49	0.47
1:O:357:SER:HB3	1:O:402:THR:HG22	1.97	0.47
1:O:404:GLN:HE22	1:O:443:ASP:H	1.61	0.47
1:O:450:PRO:HB2	1:O:451:TRP:CD2	2.50	0.47
1:P:450:PRO:HB2	1:P:451:TRP:CD2	2.50	0.47
1:Q:158:GLY:HA3	1:Q:163:GLU:HA	1.97	0.47
1:Q:404:GLN:NE2	1:Q:443:ASP:H	2.12	0.47
1:S:82:ARG:NH1	1:S:236:LYS:HD3	2.29	0.47
1:S:279:TYR:HB2	1:S:401:ILE:HG12	1.97	0.47
1:S:404:GLN:NE2	1:S:443:ASP:H	2.12	0.47
1:S:439:PHE:CE1	1:U:467:MET:HE2	2.50	0.47
1:U:146:LEU:HD22	1:U:511:PHE:CD1	2.49	0.47
1:U:279:TYR:HB2	1:U:401:ILE:HG12	1.97	0.47
1:U:450:PRO:HB2	1:U:451:TRP:CD2	2.50	0.47
1:V:243:LEU:HD22	1:W:547:LEU:HD13	1.95	0.47
1:W:158:GLY:HA3	1:W:163:GLU:HA	1.97	0.47
1:W:450:PRO:HB2	1:W:451:TRP:CD2	2.50	0.47
1:X:381:TYR:HA	1:X:385:ASP:HB3	1.96	0.47
1:Y:279:TYR:HB2	1:Y:401:ILE:HG12	1.97	0.47
1:Y:357:SER:HB3	1:Y:402:THR:HG22	1.97	0.47
1:Y:444:ASP:OD1	1:Y:562:ARG:NH2	2.47	0.47
1:Z:113:ILE:HG23	1:Z:197:LEU:HD11	1.96	0.47
1:Z:146:LEU:HD22	1:Z:511:PHE:CD1	2.49	0.47
1:a:158:GLY:HA3	1:a:163:GLU:HA	1.97	0.47
1:b:146:LEU:HD22	1:b:511:PHE:CD1	2.49	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:b:280:HIS:HB3	1:b:568:THR:HG1	1.80	0.47
1:b:357:SER:HB3	1:b:402:THR:HG22	1.97	0.47
1:b:450:PRO:HB2	1:b:451:TRP:CD2	2.50	0.47
1:c:146:LEU:HD22	1:c:511:PHE:CD1	2.49	0.47
1:c:450:PRO:HB2	1:c:451:TRP:CD2	2.50	0.47
1:e:280:HIS:HB3	1:e:568:THR:HG1	1.80	0.47
1:e:357:SER:HB3	1:e:402:THR:HG22	1.97	0.47
1:f:146:LEU:HD22	1:f:511:PHE:CD1	2.49	0.47
1:f:404:GLN:NE2	1:f:443:ASP:H	2.12	0.47
1:f:450:PRO:HB2	1:f:451:TRP:CD2	2.50	0.47
1:g:450:PRO:HB2	1:g:451:TRP:CD2	2.50	0.47
1:h:444:ASP:OD1	1:h:562:ARG:NH2	2.47	0.47
1:i:146:LEU:HD22	1:i:511:PHE:CD1	2.49	0.47
1:i:385:ASP:OD1	1:i:386:ASP:N	2.45	0.47
1:i:425:GLN:HG2	1:i:426:GLU:H	1.77	0.47
1:i:450:PRO:HB2	1:i:451:TRP:CD2	2.50	0.47
1:j:444:ASP:OD1	1:j:562:ARG:NH2	2.47	0.47
1:j:547:LEU:HD13	1:x:243:LEU:HD22	1.95	0.47
1:k:444:ASP:OD1	1:k:562:ARG:NH2	2.47	0.47
1:l:404:GLN:NE2	1:l:443:ASP:H	2.12	0.47
1:m:187:TRP:O	1:m:482:GLN:NE2	2.46	0.47
1:m:326:ARG:HD3	1:n:193:TYR:CE2	2.50	0.47
1:m:381:TYR:HA	1:m:385:ASP:HB3	1.96	0.47
1:n:357:SER:HB3	1:n:402:THR:HG22	1.97	0.47
1:n:450:PRO:HB2	1:n:451:TRP:CD2	2.50	0.47
1:p:450:PRO:HB2	1:p:451:TRP:CD2	2.50	0.47
1:q:439:PHE:CE1	1:r:467:MET:HE2	2.50	0.47
1:q:450:PRO:HB2	1:q:451:TRP:CD2	2.50	0.47
1:r:158:GLY:HA3	1:r:163:GLU:HA	1.97	0.47
1:r:326:ARG:HD3	1:s:193:TYR:CE2	2.49	0.47
1:r:381:TYR:HA	1:r:385:ASP:HB3	1.95	0.47
1:s:113:ILE:HG23	1:s:197:LEU:HD11	1.96	0.47
1:s:158:GLY:HA3	1:s:163:GLU:HA	1.97	0.47
1:s:279:TYR:HB2	1:s:401:ILE:HG12	1.97	0.47
1:t:39:THR:HG21	1:t:262:SER:HB3	1.95	0.47
1:t:243:LEU:HD22	1:y:547:LEU:HD13	1.96	0.47
1:t:452:GLY:HA2	1:t:470:HIS:HE1	1.80	0.47
1:v:279:TYR:HB2	1:v:401:ILE:HG12	1.97	0.47
1:v:378:ILE:HD12	1:v:393:GLN:HG2	1.96	0.47
1:v:547:LEU:HD13	1:w:243:LEU:HD22	1.96	0.47
1:x:444:ASP:OD1	1:x:562:ARG:NH2	2.47	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:y:279:TYR:HB2	1:y:401:ILE:HG12	1.97	0.47
1:z:113:ILE:HG23	1:z:197:LEU:HD11	1.96	0.47
1:z:279:TYR:HB2	1:z:401:ILE:HG12	1.97	0.47
1:z:378:ILE:HD12	1:z:393:GLN:HG2	1.96	0.47
1:z:452:GLY:HA2	1:z:470:HIS:HE1	1.80	0.47
1:1:404:GLN:NE2	1:1:443:ASP:H	2.12	0.47
1:1:450:PRO:HB2	1:1:451:TRP:CD2	2.50	0.47
1:2:158:GLY:HA3	1:2:163:GLU:HA	1.97	0.47
1:3:357:SER:HB3	1:3:402:THR:HG22	1.97	0.47
1:3:404:GLN:NE2	1:3:443:ASP:H	2.12	0.47
1:4:187:TRP:O	1:4:482:GLN:NE2	2.46	0.47
1:6:444:ASP:OD1	1:6:562:ARG:NH2	2.47	0.47
1:6:452:GLY:HA2	1:6:470:HIS:HE1	1.80	0.47
1:7:385:ASP:OD1	1:7:386:ASP:N	2.45	0.47
1:A:113:ILE:HG23	1:A:197:LEU:HD11	1.96	0.47
1:C:326:ARG:HD3	1:b:193:TYR:CE2	2.49	0.47
1:G:439:PHE:CE1	1:I:467:MET:HE2	2.50	0.47
1:I:158:GLY:HA3	1:I:163:GLU:HA	1.97	0.47
1:J:534:LEU:HD11	1:J:564:MET:HE1	1.97	0.47
1:K:158:GLY:HA3	1:K:163:GLU:HA	1.97	0.47
1:L:158:GLY:HA3	1:L:163:GLU:HA	1.97	0.47
1:M:146:LEU:HD22	1:M:511:PHE:CD1	2.49	0.47
1:O:444:ASP:OD1	1:O:562:ARG:NH2	2.47	0.47
1:R:439:PHE:CE1	1:S:467:MET:HE2	2.50	0.47
1:T:378:ILE:HD12	1:T:393:GLN:HG2	1.96	0.47
1:U:158:GLY:HA3	1:U:163:GLU:HA	1.97	0.47
1:X:146:LEU:HD22	1:X:511:PHE:CD1	2.49	0.47
1:Z:357:SER:HB3	1:Z:402:THR:HG22	1.97	0.47
1:Z:450:PRO:HB2	1:Z:451:TRP:CD2	2.50	0.47
1:c:158:GLY:HA3	1:c:163:GLU:HA	1.97	0.47
1:c:444:ASP:OD1	1:c:562:ARG:NH2	2.47	0.47
1:d:357:SER:HB3	1:d:402:THR:HG22	1.97	0.47
1:e:450:PRO:HB2	1:e:451:TRP:CD2	2.50	0.47
1:f:158:GLY:HA3	1:f:163:GLU:HA	1.97	0.47
1:f:444:ASP:OD1	1:f:562:ARG:NH2	2.47	0.47
1:g:357:SER:HB3	1:g:402:THR:HG22	1.97	0.47
1:h:357:SER:HB3	1:h:402:THR:HG22	1.97	0.47
1:j:326:ARG:HD3	1:k:193:TYR:CE2	2.49	0.47
1:k:452:GLY:HA2	1:k:470:HIS:HE1	1.80	0.47
1:n:279:TYR:HB2	1:n:401:ILE:HG12	1.97	0.47
1:n:444:ASP:OD1	1:n:562:ARG:NH2	2.47	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:n:534:LEU:HD11	1:n:564:MET:HE1	1.97	0.47
1:p:113:ILE:HG23	1:p:197:LEU:HD11	1.96	0.47
1:p:357:SER:HB3	1:p:402:THR:HG22	1.97	0.47
1:q:404:GLN:NE2	1:q:443:ASP:H	2.12	0.47
1:q:444:ASP:OD1	1:q:562:ARG:NH2	2.47	0.47
1:q:452:GLY:HA2	1:q:470:HIS:HE1	1.80	0.47
1:s:378:ILE:HD12	1:s:393:GLN:HG2	1.96	0.47
1:u:444:ASP:OD1	1:u:562:ARG:NH2	2.47	0.47
1:w:452:GLY:HA2	1:w:470:HIS:HE1	1.80	0.47
1:1:452:GLY:HA2	1:1:470:HIS:HE1	1.80	0.47
1:3:193:TYR:CE2	1:4:326:ARG:HD3	2.50	0.47
1:4:381:TYR:HA	1:4:385:ASP:HB3	1.96	0.47
1:5:326:ARG:HD3	1:6:193:TYR:CE2	2.49	0.47
1:7:425:GLN:HG2	1:7:426:GLU:H	1.77	0.47
1:7:450:PRO:HB2	1:7:451:TRP:CD2	2.50	0.47
1:B:439:PHE:CE1	1:J:467:MET:HE2	2.50	0.47
1:B:450:PRO:HB2	1:B:451:TRP:CD2	2.50	0.47
1:E:326:ARG:HD3	1:Q:193:TYR:CE2	2.49	0.47
1:E:439:PHE:CE1	1:Q:467:MET:HE2	2.50	0.47
1:E:450:PRO:HB2	1:E:451:TRP:CD2	2.50	0.47
1:G:146:LEU:HD22	1:G:511:PHE:CD1	2.49	0.47
1:H:534:LEU:HD11	1:H:564:MET:HE1	1.97	0.47
1:I:452:GLY:HA2	1:I:470:HIS:HE1	1.80	0.47
1:K:378:ILE:HD12	1:K:393:GLN:HG2	1.96	0.47
1:N:113:ILE:HG23	1:N:197:LEU:HD11	1.96	0.47
1:N:149:ILE:O	1:N:259:THR:HG23	2.15	0.47
1:P:404:GLN:HE22	1:P:443:ASP:H	1.61	0.47
1:R:450:PRO:HB2	1:R:451:TRP:CD2	2.50	0.47
1:S:534:LEU:HD11	1:S:564:MET:HE1	1.97	0.47
1:T:158:GLY:HA3	1:T:163:GLU:HA	1.97	0.47
1:V:326:ARG:HD3	1:e:193:TYR:CE2	2.49	0.47
1:Y:113:ILE:HG23	1:Y:197:LEU:HD11	1.96	0.47
1:Y:149:ILE:O	1:Y:259:THR:HG23	2.15	0.47
1:Z:404:GLN:HE22	1:Z:443:ASP:H	1.61	0.47
1:Z:444:ASP:OD1	1:Z:562:ARG:NH2	2.47	0.47
1:a:357:SER:HB3	1:a:402:THR:HG22	1.97	0.47
1:b:378:ILE:HD12	1:b:393:GLN:HG2	1.96	0.47
1:c:404:GLN:NE2	1:c:443:ASP:H	2.12	0.47
1:d:158:GLY:HA3	1:d:163:GLU:HA	1.97	0.47
1:e:146:LEU:HD22	1:e:511:PHE:CD1	2.49	0.47
1:e:378:ILE:HD12	1:e:393:GLN:HG2	1.96	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:f:381:TYR:HA	1:f:385:ASP:HB3	1.95	0.47
1:g:34:GLY:HA2	1:k:37:HIS:CE1	2.47	0.47
1:g:113:ILE:HG23	1:g:197:LEU:HD11	1.96	0.47
1:g:257:LEU:HD11	1:g:263:TRP:HB2	1.97	0.47
1:j:158:GLY:HA3	1:j:163:GLU:HA	1.97	0.47
1:m:444:ASP:OD1	1:m:562:ARG:NH2	2.47	0.47
1:n:113:ILE:HG23	1:n:197:LEU:HD11	1.96	0.47
1:o:357:SER:HB3	1:o:402:THR:HG22	1.97	0.47
1:p:257:LEU:HD11	1:p:263:TRP:HB2	1.97	0.47
1:s:444:ASP:OD1	1:s:562:ARG:NH2	2.47	0.47
1:t:280:HIS:HB3	1:t:568:THR:HG1	1.80	0.47
1:u:243:LEU:HD22	1:5:547:LEU:HD13	1.95	0.47
1:v:113:ILE:HG23	1:v:197:LEU:HD11	1.96	0.47
1:v:158:GLY:HA3	1:v:163:GLU:HA	1.97	0.47
1:x:279:TYR:HB2	1:x:401:ILE:HG12	1.97	0.47
1:y:158:GLY:HA3	1:y:163:GLU:HA	1.97	0.47
1:z:158:GLY:HA3	1:z:163:GLU:HA	1.97	0.47
1:z:444:ASP:OD1	1:z:562:ARG:NH2	2.47	0.47
1:3:113:ILE:HG23	1:3:197:LEU:HD11	1.96	0.47
1:3:534:LEU:HD11	1:3:564:MET:HE1	1.97	0.47
1:4:113:ILE:HG23	1:4:197:LEU:HD11	1.96	0.47
1:4:146:LEU:HD22	1:4:511:PHE:CD1	2.49	0.47
1:4:444:ASP:OD1	1:4:562:ARG:NH2	2.47	0.47
1:6:404:GLN:NE2	1:6:443:ASP:H	2.12	0.47
1:7:381:TYR:HA	1:7:385:ASP:HB3	1.96	0.47
1:7:404:GLN:NE2	1:7:443:ASP:H	2.12	0.47
1:A:243:LEU:HD22	1:B:547:LEU:HD13	1.95	0.47
1:A:381:TYR:HA	1:A:385:ASP:HB3	1.95	0.47
1:C:279:TYR:HB2	1:C:401:ILE:HG12	1.97	0.47
1:C:450:PRO:HB2	1:C:451:TRP:CD2	2.50	0.47
1:E:146:LEU:HD22	1:E:511:PHE:CD1	2.49	0.47
1:E:149:ILE:O	1:E:259:THR:HG23	2.15	0.47
1:G:149:ILE:O	1:G:259:THR:HG23	2.15	0.47
1:G:450:PRO:HB2	1:G:451:TRP:CD2	2.50	0.47
1:I:280:HIS:HB3	1:I:568:THR:HG1	1.80	0.47
1:I:450:PRO:HB2	1:I:451:TRP:CD2	2.50	0.47
1:J:257:LEU:HD11	1:J:263:TRP:HB2	1.98	0.47
1:L:452:GLY:HA2	1:L:470:HIS:HE1	1.80	0.47
1:L:534:LEU:HD11	1:L:564:MET:HE1	1.97	0.47
1:M:452:GLY:HA2	1:M:470:HIS:HE1	1.80	0.47
1:M:467:MET:HE2	1:b:439:PHE:CE1	2.50	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Q:444:ASP:OD1	1:Q:562:ARG:NH2	2.47	0.47
1:Q:450:PRO:HB2	1:Q:451:TRP:CD2	2.50	0.47
1:Q:452:GLY:HA2	1:Q:470:HIS:HE1	1.80	0.47
1:R:279:TYR:HB2	1:R:401:ILE:HG12	1.97	0.47
1:S:257:LEU:HD11	1:S:263:TRP:HB2	1.97	0.47
1:S:452:GLY:HA2	1:S:470:HIS:HE1	1.80	0.47
1:T:381:TYR:HA	1:T:385:ASP:HB3	1.95	0.47
1:U:534:LEU:HD11	1:U:564:MET:HE1	1.97	0.47
1:W:279:TYR:HB2	1:W:401:ILE:HG12	1.97	0.47
1:X:467:MET:HE2	1:e:439:PHE:CE1	2.50	0.47
1:a:146:LEU:HD22	1:a:511:PHE:CD1	2.49	0.47
1:c:357:SER:HB3	1:c:402:THR:HG22	1.97	0.47
1:c:381:TYR:HA	1:c:385:ASP:HB3	1.96	0.47
1:c:439:PHE:CE1	1:o:467:MET:HE2	2.50	0.47
1:c:467:MET:HE2	1:p:439:PHE:CE1	2.50	0.47
1:d:146:LEU:HD22	1:d:511:PHE:CD1	2.49	0.47
1:f:357:SER:HB3	1:f:402:THR:HG22	1.97	0.47
1:f:439:PHE:CE1	1:h:467:MET:HE2	2.50	0.47
1:g:193:TYR:CE2	1:h:326:ARG:HD3	2.49	0.47
1:g:279:TYR:HB2	1:g:401:ILE:HG12	1.97	0.47
1:g:357:SER:HB2	1:g:398:ASN:O	2.16	0.47
1:h:279:TYR:HB2	1:h:401:ILE:HG12	1.97	0.47
1:i:381:TYR:HA	1:i:385:ASP:HB3	1.96	0.47
1:k:404:GLN:NE2	1:k:443:ASP:H	2.12	0.47
1:l:534:LEU:HD11	1:l:564:MET:HE1	1.97	0.47
1:m:146:LEU:HD22	1:m:511:PHE:CD1	2.49	0.47
1:o:279:TYR:HB2	1:o:401:ILE:HG12	1.97	0.47
1:o:326:ARG:HD3	1:p:193:TYR:CE2	2.49	0.47
1:o:378:ILE:HD12	1:o:393:GLN:HG2	1.96	0.47
1:p:34:GLY:HA2	1:6:37:HIS:CE1	2.47	0.47
1:p:279:TYR:HB2	1:p:401:ILE:HG12	1.97	0.47
1:p:357:SER:HB2	1:p:398:ASN:O	2.16	0.47
1:q:158:GLY:HA3	1:q:163:GLU:HA	1.97	0.47
1:s:357:SER:HB3	1:s:402:THR:HG22	1.97	0.47
1:y:113:ILE:HG23	1:y:197:LEU:HD11	1.96	0.47
1:z:357:SER:HB3	1:z:402:THR:HG22	1.97	0.47
1:1:158:GLY:HA3	1:1:163:GLU:HA	1.97	0.47
1:1:444:ASP:OD1	1:1:562:ARG:NH2	2.47	0.47
1:5:158:GLY:HA3	1:5:163:GLU:HA	1.97	0.47
1:8:279:TYR:HB2	1:8:401:ILE:HG12	1.97	0.47
1:A:149:ILE:O	1:A:259:THR:HG23	2.15	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:279:TYR:HB2	1:B:401:ILE:HG12	1.97	0.46
1:C:63:ARG:HA	1:C:63:ARG:HD3	1.80	0.46
1:D:279:TYR:HB2	1:D:401:ILE:HG12	1.97	0.46
1:E:82:ARG:NH1	1:E:236:LYS:HD3	2.29	0.46
1:F:149:ILE:O	1:F:259:THR:HG23	2.15	0.46
1:F:381:TYR:HA	1:F:385:ASP:HB3	1.95	0.46
1:H:280:HIS:HB3	1:H:568:THR:HG1	1.80	0.46
1:I:444:ASP:OD1	1:I:562:ARG:NH2	2.47	0.46
1:J:378:ILE:HD12	1:J:393:GLN:HG2	1.96	0.46
1:J:452:GLY:HA2	1:J:470:HIS:HE1	1.80	0.46
1:K:439:PHE:CE1	1:a:467:MET:HE2	2.50	0.46
1:O:452:GLY:HA2	1:O:470:HIS:HE1	1.80	0.46
1:P:534:LEU:HD11	1:P:564:MET:HE1	1.97	0.46
1:Q:280:HIS:HB3	1:Q:568:THR:HG1	1.80	0.46
1:R:146:LEU:HD22	1:R:511:PHE:CD1	2.49	0.46
1:R:467:MET:HE2	1:U:439:PHE:CE1	2.50	0.46
1:T:439:PHE:CE1	1:d:467:MET:HE2	2.50	0.46
1:V:450:PRO:HB2	1:V:451:TRP:CD2	2.50	0.46
1:W:149:ILE:O	1:W:259:THR:HG23	2.15	0.46
1:b:149:ILE:O	1:b:259:THR:HG23	2.15	0.46
1:b:357:SER:HB2	1:b:398:ASN:O	2.15	0.46
1:b:404:GLN:HE22	1:b:443:ASP:H	1.61	0.46
1:c:279:TYR:HB2	1:c:401:ILE:HG12	1.97	0.46
1:e:149:ILE:O	1:e:259:THR:HG23	2.15	0.46
1:f:467:MET:HE2	1:g:439:PHE:CE1	2.50	0.46
1:i:404:GLN:NE2	1:i:443:ASP:H	2.12	0.46
1:k:357:SER:HB3	1:k:402:THR:HG22	1.97	0.46
1:l:279:TYR:HB2	1:l:401:ILE:HG12	1.97	0.46
1:l:450:PRO:HB2	1:l:451:TRP:CD2	2.50	0.46
1:m:113:ILE:HG23	1:m:197:LEU:HD11	1.96	0.46
1:m:357:SER:HB2	1:m:398:ASN:O	2.16	0.46
1:n:158:GLY:HA3	1:n:163:GLU:HA	1.97	0.46
1:q:326:ARG:HD3	1:r:193:TYR:CE2	2.49	0.46
1:s:450:PRO:HB2	1:s:451:TRP:CD2	2.50	0.46
1:t:279:TYR:HB2	1:t:401:ILE:HG12	1.97	0.46
1:t:467:MET:HE2	1:v:439:PHE:CE1	2.50	0.46
1:u:279:TYR:HB2	1:u:401:ILE:HG12	1.97	0.46
1:z:450:PRO:HB2	1:z:451:TRP:CD2	2.50	0.46
1:3:158:GLY:HA3	1:3:163:GLU:HA	1.97	0.46
1:3:444:ASP:OD1	1:3:562:ARG:NH2	2.47	0.46
1:4:357:SER:HB2	1:4:398:ASN:O	2.16	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:6:357:SER:HB3	1:6:402:THR:HG22	1.97	0.46
1:8:534:LEU:HD11	1:8:564:MET:HE1	1.97	0.46
1:A:34:GLY:HA2	1:B:37:HIS:CE1	2.46	0.46
1:A:534:LEU:HD11	1:A:564:MET:HE1	1.97	0.46
1:B:146:LEU:HD22	1:B:511:PHE:CD1	2.49	0.46
1:B:452:GLY:HA2	1:B:470:HIS:HE1	1.80	0.46
1:B:467:MET:HE2	1:L:439:PHE:CE1	2.50	0.46
1:D:149:ILE:O	1:D:259:THR:HG23	2.15	0.46
1:D:357:SER:HB2	1:D:398:ASN:O	2.15	0.46
1:D:467:MET:HE2	1:P:439:PHE:CE1	2.51	0.46
1:D:499:GLY:CA	1:D:503:ASN:HD21	2.10	0.46
1:F:34:GLY:HA2	1:R:37:HIS:CE1	2.46	0.46
1:H:34:GLY:HA2	1:Z:37:HIS:CE1	2.47	0.46
1:H:279:TYR:HB2	1:H:401:ILE:HG12	1.97	0.46
1:H:439:PHE:CE1	1:W:467:MET:HE2	2.51	0.46
1:I:357:SER:HB2	1:I:398:ASN:O	2.15	0.46
1:J:280:HIS:HB3	1:J:568:THR:HG1	1.81	0.46
1:K:146:LEU:HD22	1:K:511:PHE:CD1	2.49	0.46
1:K:381:TYR:HA	1:K:385:ASP:HB3	1.96	0.46
1:M:257:LEU:HD11	1:M:263:TRP:HB2	1.97	0.46
1:M:450:PRO:HB2	1:M:451:TRP:CD2	2.50	0.46
1:O:378:ILE:HD12	1:O:393:GLN:HG2	1.96	0.46
1:P:280:HIS:HB3	1:P:568:THR:HG1	1.80	0.46
1:S:378:ILE:HD12	1:S:393:GLN:HG2	1.96	0.46
1:T:146:LEU:HD22	1:T:511:PHE:CD1	2.49	0.46
1:V:158:GLY:HA3	1:V:163:GLU:HA	1.97	0.46
1:V:279:TYR:HB2	1:V:401:ILE:HG12	1.97	0.46
1:V:467:MET:HE2	1:X:439:PHE:CE1	2.50	0.46
1:W:499:GLY:CA	1:W:503:ASN:HD21	2.09	0.46
1:X:257:LEU:HD11	1:X:263:TRP:HB2	1.97	0.46
1:X:452:GLY:HA2	1:X:470:HIS:HE1	1.80	0.46
1:Y:534:LEU:HD11	1:Y:564:MET:HE1	1.97	0.46
1:Z:378:ILE:HD12	1:Z:393:GLN:HG2	1.96	0.46
1:Z:452:GLY:HA2	1:Z:470:HIS:HE1	1.80	0.46
1:Z:467:MET:HE2	1:3:439:PHE:CE1	2.50	0.46
1:e:357:SER:HB2	1:e:398:ASN:O	2.16	0.46
1:f:279:TYR:HB2	1:f:401:ILE:HG12	1.97	0.46
1:h:149:ILE:O	1:h:259:THR:HG23	2.16	0.46
1:h:257:LEU:HD11	1:h:263:TRP:HB2	1.97	0.46
1:h:378:ILE:HD12	1:h:393:GLN:HG2	1.96	0.46
1:h:450:PRO:HB2	1:h:451:TRP:CD2	2.50	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:i:279:TYR:HB2	1:i:401:ILE:HG12	1.97	0.46
1:i:280:HIS:HB3	1:i:568:THR:HG1	1.80	0.46
1:k:257:LEU:HD11	1:k:263:TRP:HB2	1.97	0.46
1:l:149:ILE:O	1:l:259:THR:HG23	2.15	0.46
1:m:279:TYR:HB2	1:m:401:ILE:HG12	1.97	0.46
1:m:450:PRO:HB2	1:m:451:TRP:CD2	2.50	0.46
1:o:149:ILE:O	1:o:259:THR:HG23	2.15	0.46
1:o:257:LEU:HD11	1:o:263:TRP:HB2	1.97	0.46
1:r:280:HIS:HB3	1:r:568:THR:HG1	1.81	0.46
1:r:450:PRO:HB2	1:r:451:TRP:CD2	2.50	0.46
1:s:357:SER:HB2	1:s:398:ASN:O	2.15	0.46
1:t:534:LEU:HD11	1:t:564:MET:HE1	1.97	0.46
1:v:534:LEU:HD11	1:v:564:MET:HE1	1.97	0.46
1:w:279:TYR:HB2	1:w:401:ILE:HG12	1.97	0.46
1:w:467:MET:HE2	1:y:439:PHE:CE1	2.50	0.46
1:w:534:LEU:HD11	1:w:564:MET:HE1	1.97	0.46
1:x:378:ILE:HD12	1:x:393:GLN:HG2	1.96	0.46
1:2:450:PRO:HB2	1:2:451:TRP:CD2	2.50	0.46
1:4:450:PRO:HB2	1:4:451:TRP:CD2	2.50	0.46
1:5:467:MET:HE2	1:7:439:PHE:CE1	2.51	0.46
1:6:257:LEU:HD11	1:6:263:TRP:HB2	1.98	0.46
1:6:280:HIS:HB3	1:6:568:THR:HG1	1.80	0.46
1:7:279:TYR:HB2	1:7:401:ILE:HG12	1.97	0.46
1:8:450:PRO:HB2	1:8:451:TRP:CD2	2.50	0.46
1:A:357:SER:HB2	1:A:398:ASN:O	2.16	0.46
1:C:158:GLY:HA3	1:C:163:GLU:HA	1.97	0.46
1:C:257:LEU:HD11	1:C:263:TRP:HB2	1.98	0.46
1:C:467:MET:HE2	1:M:439:PHE:CE1	2.50	0.46
1:D:257:LEU:HD11	1:D:263:TRP:HB2	1.97	0.46
1:F:534:LEU:HD11	1:F:564:MET:HE1	1.97	0.46
1:G:82:ARG:NH1	1:G:236:LYS:HD3	2.29	0.46
1:H:357:SER:HB2	1:H:398:ASN:O	2.15	0.46
1:J:450:PRO:HB2	1:J:451:TRP:CD2	2.50	0.46
1:K:149:ILE:O	1:K:259:THR:HG23	2.15	0.46
1:K:326:ARG:HD3	1:a:193:TYR:CE2	2.49	0.46
1:M:37:HIS:CE1	1:N:34:GLY:HA2	2.47	0.46
1:P:279:TYR:HB2	1:P:401:ILE:HG12	1.97	0.46
1:P:357:SER:HB2	1:P:398:ASN:O	2.16	0.46
1:Q:146:LEU:HD22	1:Q:511:PHE:CD1	2.49	0.46
1:Q:357:SER:HB3	1:Q:402:THR:HG22	1.97	0.46
1:Q:357:SER:HB2	1:Q:398:ASN:O	2.16	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:R:280:HIS:HB3	1:R:568:THR:HG1	1.80	0.46
1:S:280:HIS:HB3	1:S:568:THR:HG1	1.81	0.46
1:S:380:ASP:OD1	1:S:381:TYR:N	2.46	0.46
1:U:63:ARG:HA	1:U:63:ARG:HD3	1.80	0.46
1:U:452:GLY:HA2	1:U:470:HIS:HE1	1.80	0.46
1:V:257:LEU:HD11	1:V:263:TRP:HB2	1.97	0.46
1:W:357:SER:HB2	1:W:398:ASN:O	2.15	0.46
1:X:450:PRO:HB2	1:X:451:TRP:CD2	2.50	0.46
1:Z:357:SER:HB2	1:Z:398:ASN:O	2.16	0.46
1:c:357:SER:HB2	1:c:398:ASN:O	2.15	0.46
1:f:357:SER:HB2	1:f:398:ASN:O	2.16	0.46
1:f:452:GLY:HA2	1:f:470:HIS:HE1	1.80	0.46
1:g:467:MET:HE2	1:h:439:PHE:CE1	2.50	0.46
1:i:338:GLU:HG2	1:i:371:GLN:HB3	1.98	0.46
1:i:439:PHE:CE1	1:j:467:MET:HE2	2.51	0.46
1:j:450:PRO:HB2	1:j:451:TRP:CD2	2.50	0.46
1:k:158:GLY:HA3	1:k:163:GLU:HA	1.97	0.46
1:o:450:PRO:HB2	1:o:451:TRP:CD2	2.50	0.46
1:q:149:ILE:O	1:q:259:THR:HG23	2.16	0.46
1:q:467:MET:HE2	1:s:439:PHE:CE1	2.50	0.46
1:r:149:ILE:O	1:r:259:THR:HG23	2.16	0.46
1:u:439:PHE:CE1	1:v:467:MET:HE2	2.50	0.46
1:v:257:LEU:HD11	1:v:263:TRP:HB2	1.98	0.46
1:x:450:PRO:HB2	1:x:451:TRP:CD2	2.50	0.46
1:y:149:ILE:O	1:y:259:THR:HG23	2.15	0.46
1:y:357:SER:HB2	1:y:398:ASN:O	2.16	0.46
1:y:534:LEU:HD11	1:y:564:MET:HE1	1.97	0.46
1:z:357:SER:HB2	1:z:398:ASN:O	2.16	0.46
1:2:280:HIS:HB3	1:2:568:THR:HG1	1.81	0.46
1:4:279:TYR:HB2	1:4:401:ILE:HG12	1.97	0.46
1:5:439:PHE:CE1	1:6:467:MET:HE2	2.51	0.46
1:5:450:PRO:HB2	1:5:451:TRP:CD2	2.50	0.46
1:6:158:GLY:HA3	1:6:163:GLU:HA	1.97	0.46
1:7:452:GLY:HA2	1:7:470:HIS:HE1	1.80	0.46
1:8:149:ILE:O	1:8:259:THR:HG23	2.15	0.46
1:8:257:LEU:HD11	1:8:263:TRP:HB2	1.97	0.46
1:A:257:LEU:HD11	1:A:263:TRP:HB2	1.97	0.46
1:A:467:MET:HE2	1:I:439:PHE:CE1	2.50	0.46
1:B:280:HIS:HB3	1:B:568:THR:HG1	1.80	0.46
1:C:439:PHE:CE1	1:b:467:MET:HE2	2.50	0.46
1:F:357:SER:HB2	1:F:398:ASN:O	2.16	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:357:SER:HB3	1:I:402:THR:HG22	1.97	0.46
1:L:149:ILE:O	1:L:259:THR:HG23	2.15	0.46
1:N:534:LEU:HD11	1:N:564:MET:HE1	1.97	0.46
1:O:37:HIS:CE1	1:P:34:GLY:HA2	2.47	0.46
1:O:357:SER:HB2	1:O:398:ASN:O	2.16	0.46
1:O:467:MET:HE2	1:n:439:PHE:CE1	2.50	0.46
1:S:450:PRO:HB2	1:S:451:TRP:CD2	2.50	0.46
1:T:113:ILE:HG23	1:T:197:LEU:HD11	1.96	0.46
1:T:149:ILE:O	1:T:259:THR:HG23	2.16	0.46
1:U:149:ILE:O	1:U:259:THR:HG23	2.16	0.46
1:V:63:ARG:HA	1:V:63:ARG:HD3	1.80	0.46
1:V:439:PHE:CE1	1:e:467:MET:HE2	2.50	0.46
1:W:257:LEU:HD11	1:W:263:TRP:HB2	1.97	0.46
1:X:158:GLY:HA3	1:X:163:GLU:HA	1.97	0.46
1:Z:279:TYR:HB2	1:Z:401:ILE:HG12	1.97	0.46
1:c:378:ILE:HD12	1:c:393:GLN:HG2	1.96	0.46
1:c:452:GLY:HA2	1:c:470:HIS:HE1	1.80	0.46
1:d:280:HIS:HB3	1:d:568:THR:HG1	1.80	0.46
1:e:404:GLN:HE22	1:e:443:ASP:H	1.61	0.46
1:f:378:ILE:HD12	1:f:393:GLN:HG2	1.96	0.46
1:g:444:ASP:OD1	1:g:562:ARG:NH2	2.47	0.46
1:i:452:GLY:HA2	1:i:470:HIS:HE1	1.80	0.46
1:j:265:SER:OG	1:j:266:GLY:N	2.49	0.46
1:j:280:HIS:HB3	1:j:568:THR:HG1	1.80	0.46
1:j:439:PHE:CE1	1:k:467:MET:HE2	2.51	0.46
1:k:113:ILE:HG23	1:k:197:LEU:HD11	1.96	0.46
1:k:149:ILE:O	1:k:259:THR:HG23	2.15	0.46
1:l:257:LEU:HD11	1:l:263:TRP:HB2	1.97	0.46
1:n:452:GLY:HA2	1:n:470:HIS:HE1	1.80	0.46
1:o:439:PHE:CE1	1:p:467:MET:HE2	2.50	0.46
1:p:444:ASP:OD1	1:p:562:ARG:NH2	2.47	0.46
1:r:257:LEU:HD11	1:r:263:TRP:HB2	1.97	0.46
1:t:450:PRO:HB2	1:t:451:TRP:CD2	2.50	0.46
1:u:158:GLY:HA3	1:u:163:GLU:HA	1.97	0.46
1:u:378:ILE:HD12	1:u:393:GLN:HG2	1.96	0.46
1:v:149:ILE:O	1:v:259:THR:HG23	2.15	0.46
1:v:357:SER:HB2	1:v:398:ASN:O	2.16	0.46
1:w:193:TYR:CE2	1:y:326:ARG:HD3	2.49	0.46
1:x:439:PHE:CE1	1:y:467:MET:HE2	2.50	0.46
1:y:257:LEU:HD11	1:y:263:TRP:HB2	1.98	0.46
1:z:257:LEU:HD11	1:z:263:TRP:HB2	1.97	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1:149:ILE:O	1:1:259:THR:HG23	2.16	0.46
1:2:149:ILE:O	1:2:259:THR:HG23	2.15	0.46
1:2:257:LEU:HD11	1:2:263:TRP:HB2	1.98	0.46
1:3:452:GLY:HA2	1:3:470:HIS:HE1	1.80	0.46
1:5:257:LEU:HD11	1:5:263:TRP:HB2	1.97	0.46
1:5:265:SER:OG	1:5:266:GLY:N	2.49	0.46
1:5:452:GLY:HA2	1:5:470:HIS:HE1	1.80	0.46
1:6:149:ILE:O	1:6:259:THR:HG23	2.15	0.46
1:7:149:ILE:O	1:7:259:THR:HG23	2.15	0.46
1:7:338:GLU:HG2	1:7:371:GLN:HB3	1.98	0.46
1:C:149:ILE:O	1:C:259:THR:HG23	2.15	0.46
1:C:280:HIS:HB3	1:C:568:THR:HG1	1.80	0.46
1:F:257:LEU:HD11	1:F:263:TRP:HB2	1.98	0.46
1:F:357:SER:HB3	1:F:402:THR:HG22	1.97	0.46
1:I:146:LEU:HD22	1:I:511:PHE:CD1	2.49	0.46
1:J:380:ASP:OD1	1:J:381:TYR:N	2.46	0.46
1:K:450:PRO:HB2	1:K:451:TRP:CD2	2.50	0.46
1:M:158:GLY:HA3	1:M:163:GLU:HA	1.97	0.46
1:N:357:SER:HB2	1:N:398:ASN:O	2.15	0.46
1:O:279:TYR:HB2	1:O:401:ILE:HG12	1.97	0.46
1:T:257:LEU:HD11	1:T:263:TRP:HB2	1.97	0.46
1:T:326:ARG:HD3	1:d:193:TYR:CE2	2.49	0.46
1:T:450:PRO:HB2	1:T:451:TRP:CD2	2.50	0.46
1:V:149:ILE:O	1:V:259:THR:HG23	2.15	0.46
1:Y:357:SER:HB2	1:Y:398:ASN:O	2.15	0.46
1:Z:149:ILE:O	1:Z:259:THR:HG23	2.15	0.46
1:a:450:PRO:HB2	1:a:451:TRP:CD2	2.50	0.46
1:b:63:ARG:HD3	1:b:63:ARG:HA	1.80	0.46
1:b:534:LEU:HD11	1:b:564:MET:HE1	1.97	0.46
1:d:450:PRO:HB2	1:d:451:TRP:CD2	2.50	0.46
1:i:149:ILE:O	1:i:259:THR:HG23	2.15	0.46
1:i:265:SER:OG	1:i:266:GLY:N	2.49	0.46
1:j:357:SER:HB2	1:j:398:ASN:O	2.16	0.46
1:j:404:GLN:NE2	1:j:443:ASP:H	2.12	0.46
1:k:280:HIS:HB3	1:k:568:THR:HG1	1.80	0.46
1:n:280:HIS:HB3	1:n:568:THR:HG1	1.80	0.46
1:p:146:LEU:HD22	1:p:511:PHE:CD1	2.49	0.46
1:r:113:ILE:HG23	1:r:197:LEU:HD11	1.96	0.46
1:t:193:TYR:CE2	1:v:326:ARG:HD3	2.49	0.46
1:u:37:HIS:CE1	1:2:34:GLY:HA2	2.48	0.46
1:u:450:PRO:HB2	1:u:451:TRP:CD2	2.50	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:x:158:GLY:HA3	1:x:163:GLU:HA	1.97	0.46
1:2:113:ILE:HG23	1:2:197:LEU:HD11	1.96	0.46
1:3:378:ILE:HD12	1:3:393:GLN:HG2	1.96	0.46
1:4:378:ILE:HD12	1:4:393:GLN:HG2	1.96	0.46
1:6:113:ILE:HG23	1:6:197:LEU:HD11	1.96	0.46
1:6:357:SER:HB2	1:6:398:ASN:O	2.15	0.46
1:7:265:SER:OG	1:7:266:GLY:N	2.49	0.46
1:E:467:MET:HE2	1:F:439:PHE:CE1	2.50	0.46
1:F:279:TYR:HB2	1:F:401:ILE:HG12	1.97	0.46
1:F:450:PRO:HB2	1:F:451:TRP:CD2	2.50	0.46
1:F:467:MET:HE2	1:Q:439:PHE:CE1	2.50	0.46
1:J:338:GLU:HG2	1:J:371:GLN:HB3	1.98	0.46
1:K:113:ILE:HG23	1:K:197:LEU:HD11	1.96	0.46
1:N:37:HIS:CE1	1:m:34:GLY:HA2	2.47	0.46
1:N:439:PHE:CE1	1:P:467:MET:HE2	2.51	0.46
1:O:149:ILE:O	1:O:259:THR:HG23	2.15	0.46
1:O:280:HIS:HB3	1:O:568:THR:HG1	1.80	0.46
1:O:439:PHE:CE1	1:m:467:MET:HE2	2.50	0.46
1:R:452:GLY:HA2	1:R:470:HIS:HE1	1.80	0.46
1:S:357:SER:HB3	1:S:402:THR:HG22	1.97	0.46
1:Y:450:PRO:HB2	1:Y:451:TRP:CD2	2.50	0.46
1:b:257:LEU:HD11	1:b:263:TRP:HB2	1.97	0.46
1:b:452:GLY:HA2	1:b:470:HIS:HE1	1.80	0.46
1:c:280:HIS:HB3	1:c:568:THR:HG1	1.80	0.46
1:e:452:GLY:HA2	1:e:470:HIS:HE1	1.80	0.46
1:g:338:GLU:HG2	1:g:371:GLN:HB3	1.98	0.46
1:i:357:SER:HB3	1:i:402:THR:HG22	1.97	0.46
1:i:378:ILE:HD12	1:i:393:GLN:HG2	1.96	0.46
1:j:257:LEU:HD11	1:j:263:TRP:HB2	1.98	0.46
1:j:452:GLY:HA2	1:j:470:HIS:HE1	1.80	0.46
1:k:146:LEU:HD22	1:k:511:PHE:CD1	2.49	0.46
1:l:338:GLU:HG2	1:l:371:GLN:HB3	1.98	0.46
1:m:149:ILE:O	1:m:259:THR:HG23	2.16	0.46
1:o:357:SER:HB2	1:o:398:ASN:O	2.15	0.46
1:o:534:LEU:HD11	1:o:564:MET:HE1	1.97	0.46
1:p:149:ILE:O	1:p:259:THR:HG23	2.15	0.46
1:p:338:GLU:HG2	1:p:371:GLN:HB3	1.98	0.46
1:s:149:ILE:O	1:s:259:THR:HG23	2.16	0.46
1:s:257:LEU:HD11	1:s:263:TRP:HB2	1.97	0.46
1:t:113:ILE:HG23	1:t:197:LEU:HD11	1.96	0.46
1:t:439:PHE:CE1	1:u:467:MET:HE2	2.50	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:w:265:SER:OG	1:w:266:GLY:N	2.49	0.46
1:w:439:PHE:CE1	1:x:467:MET:HE2	2.50	0.46
1:w:450:PRO:HB2	1:w:451:TRP:CD2	2.50	0.46
1:z:149:ILE:O	1:z:259:THR:HG23	2.15	0.46
1:z:193:TYR:HA	1:2:311:GLY:HA3	1.97	0.46
1:z:279:TYR:OH	1:1:242:ASP:OD2	2.31	0.46
1:4:149:ILE:O	1:4:259:THR:HG23	2.15	0.46
1:4:280:HIS:HB3	1:4:568:THR:HG1	1.80	0.46
1:5:280:HIS:HB3	1:5:568:THR:HG1	1.80	0.46
1:5:357:SER:HB2	1:5:398:ASN:O	2.16	0.46
1:6:146:LEU:HD22	1:6:511:PHE:CD1	2.49	0.46
1:6:450:PRO:HB2	1:6:451:TRP:CD2	2.50	0.46
1:7:280:HIS:HB3	1:7:568:THR:HG1	1.80	0.46
1:7:357:SER:HB3	1:7:402:THR:HG22	1.97	0.46
1:7:378:ILE:HD12	1:7:393:GLN:HG2	1.96	0.46
1:A:280:HIS:HB3	1:A:568:THR:HG1	1.80	0.46
1:A:357:SER:HB3	1:A:402:THR:HG22	1.97	0.46
1:D:280:HIS:HB3	1:D:568:THR:HG1	1.80	0.46
1:D:439:PHE:CE1	1:N:467:MET:HE2	2.51	0.46
1:H:467:MET:HE2	1:Y:439:PHE:CE1	2.51	0.46
1:J:357:SER:HB3	1:J:402:THR:HG22	1.97	0.46
1:K:257:LEU:HD11	1:K:263:TRP:HB2	1.97	0.46
1:M:357:SER:HB2	1:M:398:ASN:O	2.15	0.46
1:R:357:SER:HB3	1:R:402:THR:HG22	1.97	0.46
1:S:338:GLU:HG2	1:S:371:GLN:HB3	1.98	0.46
1:Z:439:PHE:CE1	1:4:467:MET:HE2	2.50	0.46
1:a:279:TYR:HB2	1:a:401:ILE:HG12	1.97	0.46
1:e:257:LEU:HD11	1:e:263:TRP:HB2	1.97	0.46
1:e:534:LEU:HD11	1:e:564:MET:HE1	1.97	0.46
1:g:146:LEU:HD22	1:g:511:PHE:CD1	2.49	0.46
1:g:149:ILE:O	1:g:259:THR:HG23	2.15	0.46
1:g:187:TRP:O	1:g:482:GLN:NE2	2.46	0.46
1:h:280:HIS:HB3	1:h:568:THR:HG1	1.80	0.46
1:h:357:SER:HB2	1:h:398:ASN:O	2.15	0.46
1:h:534:LEU:HD11	1:h:564:MET:HE1	1.97	0.46
1:i:257:LEU:HD11	1:i:263:TRP:HB2	1.97	0.46
1:k:357:SER:HB2	1:k:398:ASN:O	2.15	0.46
1:k:450:PRO:HB2	1:k:451:TRP:CD2	2.50	0.46
1:m:63:ARG:HA	1:m:63:ARG:HD3	1.80	0.46
1:m:280:HIS:HB3	1:m:568:THR:HG1	1.80	0.46
1:m:378:ILE:HD12	1:m:393:GLN:HG2	1.96	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:n:378:ILE:HD12	1:n:393:GLN:HG2	1.96	0.46
1:t:265:SER:OG	1:t:266:GLY:N	2.49	0.46
1:t:357:SER:HB3	1:t:402:THR:HG22	1.97	0.46
1:u:534:LEU:HD11	1:u:564:MET:HE1	1.97	0.46
1:w:113:ILE:HG23	1:w:197:LEU:HD11	1.96	0.46
1:x:534:LEU:HD11	1:x:564:MET:HE1	1.97	0.46
1:y:450:PRO:HB2	1:y:451:TRP:CD2	2.50	0.46
1:z:439:PHE:CE1	1:1:467:MET:HE2	2.50	0.46
1:5:404:GLN:NE2	1:5:443:ASP:H	2.12	0.46
1:7:257:LEU:HD11	1:7:263:TRP:HB2	1.98	0.46
1:8:265:SER:OG	1:8:266:GLY:N	2.49	0.46
1:8:338:GLU:HG2	1:8:371:GLN:HB3	1.98	0.46
1:A:279:TYR:HB2	1:A:401:ILE:HG12	1.97	0.46
1:A:338:GLU:HG2	1:A:371:GLN:HB3	1.98	0.46
1:A:439:PHE:CE1	1:G:467:MET:HE2	2.50	0.46
1:A:450:PRO:HB2	1:A:451:TRP:CD2	2.50	0.46
1:F:338:GLU:HG2	1:F:371:GLN:HB3	1.98	0.46
1:K:357:SER:HB3	1:K:402:THR:HG22	1.97	0.46
1:L:357:SER:HB3	1:L:402:THR:HG22	1.97	0.46
1:N:450:PRO:HB2	1:N:451:TRP:CD2	2.50	0.46
1:O:338:GLU:HG2	1:O:371:GLN:HB3	1.98	0.46
1:R:534:LEU:HD11	1:R:564:MET:HE1	1.97	0.46
1:S:265:SER:OG	1:S:266:GLY:N	2.49	0.46
1:T:357:SER:HB3	1:T:402:THR:HG22	1.97	0.46
1:U:357:SER:HB3	1:U:402:THR:HG22	1.97	0.46
1:V:280:HIS:HB3	1:V:568:THR:HG1	1.80	0.46
1:X:357:SER:HB2	1:X:398:ASN:O	2.15	0.46
1:Z:338:GLU:HG2	1:Z:371:GLN:HB3	1.98	0.46
1:a:280:HIS:HB3	1:a:568:THR:HG1	1.80	0.46
1:b:265:SER:OG	1:b:266:GLY:N	2.49	0.46
1:d:279:TYR:HB2	1:d:401:ILE:HG12	1.97	0.46
1:e:265:SER:OG	1:e:266:GLY:N	2.49	0.46
1:j:357:SER:HB3	1:j:402:THR:HG22	1.97	0.46
1:l:265:SER:OG	1:l:266:GLY:N	2.49	0.46
1:n:149:ILE:O	1:n:259:THR:HG23	2.16	0.46
1:n:357:SER:HB2	1:n:398:ASN:O	2.15	0.46
1:o:280:HIS:HB3	1:o:568:THR:HG1	1.80	0.46
1:p:534:LEU:HD11	1:p:564:MET:HE1	1.97	0.46
1:q:63:ARG:HA	1:q:63:ARG:HD3	1.80	0.46
1:q:265:SER:OG	1:q:266:GLY:N	2.49	0.46
1:s:534:LEU:HD11	1:s:564:MET:HE1	1.97	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:t:149:ILE:O	1:t:259:THR:HG23	2.15	0.46
1:t:338:GLU:HG2	1:t:371:GLN:HB3	1.98	0.46
1:v:450:PRO:HB2	1:v:451:TRP:CD2	2.50	0.46
1:w:357:SER:HB3	1:w:402:THR:HG22	1.97	0.46
1:z:534:LEU:HD11	1:z:564:MET:HE1	1.97	0.46
1:1:265:SER:OG	1:1:266:GLY:N	2.49	0.46
1:3:149:ILE:O	1:3:259:THR:HG23	2.15	0.46
1:3:280:HIS:HB3	1:3:568:THR:HG1	1.80	0.46
1:3:357:SER:HB2	1:3:398:ASN:O	2.16	0.46
1:8:158:GLY:HA3	1:8:163:GLU:HA	1.97	0.46
1:B:534:LEU:HD11	1:B:564:MET:HE1	1.97	0.46
1:F:280:HIS:HB3	1:F:568:THR:HG1	1.80	0.46
1:H:158:GLY:HA3	1:H:163:GLU:HA	1.97	0.46
1:H:265:SER:OG	1:H:266:GLY:N	2.49	0.46
1:I:534:LEU:HD11	1:I:564:MET:HE1	1.97	0.46
1:J:265:SER:OG	1:J:266:GLY:N	2.49	0.46
1:K:467:MET:HE2	1:8:439:PHE:CE1	2.50	0.46
1:M:149:ILE:O	1:M:259:THR:HG23	2.15	0.46
1:O:143:ASP:OD1	1:O:144:GLN:N	2.49	0.46
1:P:158:GLY:HA3	1:P:163:GLU:HA	1.97	0.46
1:P:265:SER:OG	1:P:266:GLY:N	2.49	0.46
1:Q:534:LEU:HD11	1:Q:564:MET:HE1	1.97	0.46
1:T:143:ASP:OD1	1:T:144:GLN:N	2.49	0.46
1:Z:143:ASP:OD1	1:Z:144:GLN:N	2.49	0.46
1:a:534:LEU:HD11	1:a:564:MET:HE1	1.97	0.46
1:c:265:SER:OG	1:c:266:GLY:N	2.49	0.46
1:d:357:SER:HB2	1:d:398:ASN:O	2.15	0.46
1:d:534:LEU:HD11	1:d:564:MET:HE1	1.97	0.46
1:f:265:SER:OG	1:f:266:GLY:N	2.49	0.46
1:g:534:LEU:HD11	1:g:564:MET:HE1	1.97	0.46
1:h:158:GLY:HA3	1:h:163:GLU:HA	1.97	0.46
1:l:158:GLY:HA3	1:l:163:GLU:HA	1.97	0.46
1:l:357:SER:HB3	1:l:402:THR:HG22	1.97	0.46
1:l:378:ILE:HD12	1:l:393:GLN:HG2	1.96	0.46
1:m:439:PHE:CE1	1:n:467:MET:HE2	2.50	0.46
1:r:439:PHE:CE1	1:s:467:MET:HE2	2.50	0.46
1:t:357:SER:HB2	1:t:398:ASN:O	2.16	0.46
1:u:280:HIS:HB3	1:u:568:THR:HG1	1.80	0.46
1:w:149:ILE:O	1:w:259:THR:HG23	2.15	0.46
1:w:357:SER:HB2	1:w:398:ASN:O	2.16	0.46
1:1:357:SER:HB2	1:1:398:ASN:O	2.16	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:5:357:SER:HB3	1:5:402:THR:HG22	1.97	0.46
1:8:378:ILE:HD12	1:8:393:GLN:HG2	1.96	0.46
1:B:357:SER:HB3	1:B:402:THR:HG22	1.97	0.46
1:C:534:LEU:HD11	1:C:564:MET:HE1	1.97	0.46
1:D:357:SER:HB3	1:D:402:THR:HG22	1.97	0.46
1:G:357:SER:HB2	1:G:398:ASN:O	2.16	0.46
1:H:143:ASP:OD1	1:H:144:GLN:N	2.49	0.46
1:H:452:GLY:HA2	1:H:470:HIS:HE1	1.80	0.46
1:K:143:ASP:OD1	1:K:144:GLN:N	2.49	0.46
1:K:265:SER:OG	1:K:266:GLY:N	2.49	0.46
1:N:158:GLY:HA3	1:N:163:GLU:HA	1.97	0.46
1:N:257:LEU:HD11	1:N:263:TRP:HB2	1.97	0.46
1:N:452:GLY:HA2	1:N:470:HIS:HE1	1.80	0.46
1:P:143:ASP:OD1	1:P:144:GLN:N	2.49	0.46
1:P:149:ILE:O	1:P:259:THR:HG23	2.15	0.46
1:Q:149:ILE:O	1:Q:259:THR:HG23	2.15	0.46
1:S:158:GLY:HA3	1:S:163:GLU:HA	1.97	0.46
1:V:357:SER:HB2	1:V:398:ASN:O	2.16	0.46
1:W:357:SER:HB3	1:W:402:THR:HG22	1.97	0.46
1:W:439:PHE:CE1	1:Y:467:MET:HE2	2.51	0.46
1:X:149:ILE:O	1:X:259:THR:HG23	2.15	0.46
1:X:357:SER:HB3	1:X:402:THR:HG22	1.97	0.46
1:Y:37:HIS:CE1	1:4:34:GLY:HA2	2.47	0.46
1:Y:158:GLY:HA3	1:Y:163:GLU:HA	1.97	0.46
1:Y:257:LEU:HD11	1:Y:263:TRP:HB2	1.97	0.46
1:Y:452:GLY:HA2	1:Y:470:HIS:HE1	1.80	0.46
1:Z:158:GLY:HA3	1:Z:163:GLU:HA	1.97	0.46
1:a:357:SER:HB2	1:a:398:ASN:O	2.15	0.46
1:d:546:PHE:HA	1:d:555:GLU:O	2.17	0.46
1:i:158:GLY:HA3	1:i:163:GLU:HA	1.97	0.46
1:i:467:MET:HE2	1:k:439:PHE:CE1	2.51	0.46
1:j:149:ILE:O	1:j:259:THR:HG23	2.15	0.46
1:k:546:PHE:HA	1:k:555:GLU:O	2.17	0.46
1:o:158:GLY:HA3	1:o:163:GLU:HA	1.97	0.46
1:p:280:HIS:HB3	1:p:568:THR:HG1	1.80	0.46
1:r:357:SER:HB3	1:r:402:THR:HG22	1.97	0.46
1:s:265:SER:OG	1:s:266:GLY:N	2.49	0.46
1:t:158:GLY:HA3	1:t:163:GLU:HA	1.97	0.46
1:v:452:GLY:HA2	1:v:470:HIS:HE1	1.80	0.46
1:w:158:GLY:HA3	1:w:163:GLU:HA	1.97	0.46
1:w:338:GLU:HG2	1:w:371:GLN:HB3	1.98	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:x:280:HIS:HB3	1:x:568:THR:HG1	1.80	0.46
1:y:452:GLY:HA2	1:y:470:HIS:HE1	1.80	0.46
1:z:265:SER:OG	1:z:266:GLY:N	2.49	0.46
1:2:357:SER:HB3	1:2:402:THR:HG22	1.97	0.46
1:3:467:MET:HE2	1:4:439:PHE:CE1	2.50	0.46
1:6:439:PHE:CE1	1:7:467:MET:HE2	2.51	0.46
1:7:158:GLY:HA3	1:7:163:GLU:HA	1.97	0.46
1:A:143:ASP:OD1	1:A:144:GLN:N	2.49	0.45
1:A:158:GLY:HA3	1:A:163:GLU:HA	1.97	0.45
1:A:193:TYR:HA	1:I:311:GLY:HA3	1.99	0.45
1:B:149:ILE:O	1:B:259:THR:HG23	2.15	0.45
1:B:257:LEU:HD11	1:B:263:TRP:HB2	1.97	0.45
1:B:265:SER:OG	1:B:266:GLY:N	2.49	0.45
1:C:265:SER:OG	1:C:266:GLY:N	2.49	0.45
1:D:546:PHE:HA	1:D:555:GLU:O	2.17	0.45
1:E:257:LEU:HD11	1:E:263:TRP:HB2	1.97	0.45
1:E:357:SER:HB2	1:E:398:ASN:O	2.16	0.45
1:E:380:ASP:OD1	1:E:381:TYR:N	2.46	0.45
1:F:143:ASP:OD1	1:F:144:GLN:N	2.49	0.45
1:F:158:GLY:HA3	1:F:163:GLU:HA	1.97	0.45
1:G:257:LEU:HD11	1:G:263:TRP:HB2	1.97	0.45
1:G:380:ASP:OD1	1:G:381:TYR:N	2.46	0.45
1:I:149:ILE:O	1:I:259:THR:HG23	2.16	0.45
1:J:64:HIS:CE1	1:J:510:THR:HB	2.52	0.45
1:L:257:LEU:HD11	1:L:263:TRP:HB2	1.97	0.45
1:L:357:SER:HB2	1:L:398:ASN:O	2.16	0.45
1:M:357:SER:HB3	1:M:402:THR:HG22	1.97	0.45
1:O:158:GLY:HA3	1:O:163:GLU:HA	1.97	0.45
1:O:257:LEU:HD11	1:O:263:TRP:HB2	1.97	0.45
1:R:257:LEU:HD11	1:R:263:TRP:HB2	1.98	0.45
1:R:265:SER:OG	1:R:266:GLY:N	2.49	0.45
1:T:467:MET:HE2	1:l:439:PHE:CE1	2.50	0.45
1:U:280:HIS:HB3	1:U:568:THR:HG1	1.80	0.45
1:U:357:SER:HB2	1:U:398:ASN:O	2.15	0.45
1:V:265:SER:OG	1:V:266:GLY:N	2.49	0.45
1:V:534:LEU:HD11	1:V:564:MET:HE1	1.97	0.45
1:W:265:SER:OG	1:W:266:GLY:N	2.49	0.45
1:W:546:PHE:HA	1:W:555:GLU:O	2.17	0.45
1:X:279:TYR:HB2	1:X:401:ILE:HG12	1.97	0.45
1:Y:280:HIS:HB3	1:Y:568:THR:HG1	1.80	0.45
1:Z:257:LEU:HD11	1:Z:263:TRP:HB2	1.97	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:a:546:PHE:HA	1:a:555:GLU:O	2.17	0.45
1:f:149:ILE:O	1:f:259:THR:HG23	2.15	0.45
1:g:280:HIS:HB3	1:g:568:THR:HG1	1.80	0.45
1:q:279:TYR:HB2	1:q:401:ILE:HG12	1.97	0.45
1:q:357:SER:HB2	1:q:398:ASN:O	2.16	0.45
1:q:534:LEU:HD11	1:q:564:MET:HE1	1.97	0.45
1:r:546:PHE:HA	1:r:555:GLU:O	2.17	0.45
1:s:546:PHE:HA	1:s:555:GLU:O	2.17	0.45
1:x:357:SER:HB2	1:x:398:ASN:O	2.15	0.45
1:z:546:PHE:HA	1:z:555:GLU:O	2.17	0.45
1:1:279:TYR:HB2	1:1:401:ILE:HG12	1.97	0.45
1:2:546:PHE:HA	1:2:555:GLU:O	2.17	0.45
1:6:311:GLY:HA3	1:7:193:TYR:HA	1.98	0.45
1:6:546:PHE:HA	1:6:555:GLU:O	2.17	0.45
1:8:357:SER:HB3	1:8:402:THR:HG22	1.97	0.45
1:8:357:SER:HB2	1:8:398:ASN:O	2.15	0.45
1:B:143:ASP:OD1	1:B:144:GLN:N	2.49	0.45
1:C:357:SER:HB2	1:C:398:ASN:O	2.16	0.45
1:H:149:ILE:O	1:H:259:THR:HG23	2.15	0.45
1:I:64:HIS:CE1	1:I:510:THR:HB	2.52	0.45
1:I:143:ASP:OD1	1:I:144:GLN:N	2.49	0.45
1:I:279:TYR:HB2	1:I:401:ILE:HG12	1.97	0.45
1:J:158:GLY:HA3	1:J:163:GLU:HA	1.97	0.45
1:J:311:GLY:HA3	1:L:193:TYR:HA	1.99	0.45
1:K:242:ASP:OD2	1:8:279:TYR:OH	2.32	0.45
1:O:311:GLY:HA3	1:m:193:TYR:HA	1.99	0.45
1:O:534:LEU:HD11	1:O:564:MET:HE1	1.97	0.45
1:P:452:GLY:HA2	1:P:470:HIS:HE1	1.80	0.45
1:Q:63:ARG:HD3	1:Q:63:ARG:HA	1.80	0.45
1:Q:64:HIS:CE1	1:Q:510:THR:HB	2.52	0.45
1:Q:279:TYR:HB2	1:Q:401:ILE:HG12	1.97	0.45
1:R:143:ASP:OD1	1:R:144:GLN:N	2.49	0.45
1:S:311:GLY:HA3	1:U:193:TYR:HA	1.98	0.45
1:T:242:ASP:OD2	1:l:279:TYR:OH	2.32	0.45
1:U:257:LEU:HD11	1:U:263:TRP:HB2	1.98	0.45
1:W:280:HIS:HB3	1:W:568:THR:HG1	1.80	0.45
1:Z:280:HIS:HB3	1:Z:568:THR:HG1	1.81	0.45
1:Z:311:GLY:HA3	1:4:193:TYR:HA	1.99	0.45
1:Z:534:LEU:HD11	1:Z:564:MET:HE1	1.97	0.45
1:a:257:LEU:HD11	1:a:263:TRP:HB2	1.97	0.45
1:c:149:ILE:O	1:c:259:THR:HG23	2.15	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:c:338:GLU:HG2	1:c:371:GLN:HB3	1.98	0.45
1:d:257:LEU:HD11	1:d:263:TRP:HB2	1.97	0.45
1:d:279:TYR:OH	1:l:242:ASP:OD2	2.31	0.45
1:e:63:ARG:HD3	1:e:63:ARG:HA	1.80	0.45
1:g:143:ASP:OD1	1:g:144:GLN:N	2.49	0.45
1:i:64:HIS:CE1	1:i:510:THR:HB	2.52	0.45
1:i:193:TYR:HA	1:k:311:GLY:HA3	1.98	0.45
1:k:279:TYR:HB2	1:k:401:ILE:HG12	1.97	0.45
1:l:357:SER:HB2	1:l:398:ASN:O	2.15	0.45
1:m:158:GLY:HA3	1:m:163:GLU:HA	1.97	0.45
1:m:265:SER:OG	1:m:266:GLY:N	2.49	0.45
1:m:546:PHE:HA	1:m:555:GLU:O	2.17	0.45
1:n:257:LEU:HD11	1:n:263:TRP:HB2	1.97	0.45
1:p:143:ASP:OD1	1:p:144:GLN:N	2.49	0.45
1:p:158:GLY:HA3	1:p:163:GLU:HA	1.97	0.45
1:p:187:TRP:O	1:p:482:GLN:NE2	2.46	0.45
1:q:357:SER:HB3	1:q:402:THR:HG22	1.97	0.45
1:u:357:SER:HB2	1:u:398:ASN:O	2.16	0.45
1:u:357:SER:HB3	1:u:402:THR:HG22	1.97	0.45
1:v:357:SER:HB3	1:v:402:THR:HG22	1.97	0.45
1:x:357:SER:HB3	1:x:402:THR:HG22	1.97	0.45
1:y:64:HIS:CE1	1:y:510:THR:HB	2.52	0.45
1:1:143:ASP:OD1	1:1:144:GLN:N	2.49	0.45
1:1:357:SER:HB3	1:1:402:THR:HG22	1.97	0.45
1:1:534:LEU:HD11	1:1:564:MET:HE1	1.97	0.45
1:2:357:SER:HB2	1:2:398:ASN:O	2.15	0.45
1:3:257:LEU:HD11	1:3:263:TRP:HB2	1.98	0.45
1:4:158:GLY:HA3	1:4:163:GLU:HA	1.97	0.45
1:4:265:SER:OG	1:4:266:GLY:N	2.49	0.45
1:4:534:LEU:HD11	1:4:564:MET:HE1	1.97	0.45
1:4:546:PHE:HA	1:4:555:GLU:O	2.17	0.45
1:5:149:ILE:O	1:5:259:THR:HG23	2.15	0.45
1:6:279:TYR:HB2	1:6:401:ILE:HG12	1.97	0.45
1:B:357:SER:HB2	1:B:398:ASN:O	2.15	0.45
1:C:357:SER:HB3	1:C:402:THR:HG22	1.97	0.45
1:D:265:SER:OG	1:D:266:GLY:N	2.49	0.45
1:E:143:ASP:OD1	1:E:144:GLN:N	2.49	0.45
1:E:534:LEU:HD11	1:E:564:MET:HE1	1.97	0.45
1:G:143:ASP:OD1	1:G:144:GLN:N	2.49	0.45
1:H:64:HIS:CE1	1:H:510:THR:HB	2.52	0.45
1:M:64:HIS:CE1	1:M:510:THR:HB	2.52	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:279:TYR:HB2	1:M:401:ILE:HG12	1.97	0.45
1:N:280:HIS:HB3	1:N:568:THR:HG1	1.80	0.45
1:O:193:TYR:HA	1:n:311:GLY:HA3	1.99	0.45
1:P:64:HIS:CE1	1:P:510:THR:HB	2.52	0.45
1:Q:143:ASP:OD1	1:Q:144:GLN:N	2.49	0.45
1:Q:257:LEU:HD11	1:Q:263:TRP:HB2	1.97	0.45
1:R:149:ILE:O	1:R:259:THR:HG23	2.16	0.45
1:S:64:HIS:CE1	1:S:510:THR:HB	2.52	0.45
1:V:357:SER:HB3	1:V:402:THR:HG22	1.97	0.45
1:V:546:PHE:HA	1:V:555:GLU:O	2.17	0.45
1:Z:64:HIS:CE1	1:Z:510:THR:HB	2.52	0.45
1:Z:242:ASP:OD2	1:3:279:TYR:OH	2.31	0.45
1:a:279:TYR:OH	1:8:242:ASP:OD2	2.31	0.45
1:c:534:LEU:HD11	1:c:564:MET:HE1	1.97	0.45
1:d:64:HIS:CE1	1:d:510:THR:HB	2.52	0.45
1:f:338:GLU:HG2	1:f:371:GLN:HB3	1.98	0.45
1:f:534:LEU:HD11	1:f:564:MET:HE1	1.97	0.45
1:j:64:HIS:CE1	1:j:510:THR:HB	2.52	0.45
1:p:452:GLY:HA2	1:p:470:HIS:HE1	1.80	0.45
1:q:143:ASP:OD1	1:q:144:GLN:N	2.49	0.45
1:u:149:ILE:O	1:u:259:THR:HG23	2.15	0.45
1:v:64:HIS:CE1	1:v:510:THR:HB	2.52	0.45
1:y:143:ASP:OD1	1:y:144:GLN:N	2.49	0.45
1:y:357:SER:HB3	1:y:402:THR:HG22	1.97	0.45
1:1:64:HIS:CE1	1:1:510:THR:HB	2.52	0.45
1:4:63:ARG:HA	1:4:63:ARG:HD3	1.80	0.45
1:5:64:HIS:CE1	1:5:510:THR:HB	2.52	0.45
1:7:64:HIS:CE1	1:7:510:THR:HB	2.52	0.45
1:C:64:HIS:CE1	1:C:510:THR:HB	2.52	0.45
1:C:546:PHE:HA	1:C:555:GLU:O	2.17	0.45
1:D:63:ARG:HA	1:D:63:ARG:HD3	1.80	0.45
1:D:534:LEU:HD11	1:D:564:MET:HE1	1.97	0.45
1:E:546:PHE:HA	1:E:555:GLU:O	2.16	0.45
1:G:534:LEU:HD11	1:G:564:MET:HE1	1.97	0.45
1:I:257:LEU:HD11	1:I:263:TRP:HB2	1.98	0.45
1:L:143:ASP:OD1	1:L:144:GLN:N	2.50	0.45
1:L:280:HIS:HB3	1:L:568:THR:HG1	1.80	0.45
1:O:64:HIS:CE1	1:O:510:THR:HB	2.52	0.45
1:O:546:PHE:HA	1:O:555:GLU:O	2.16	0.45
1:S:143:ASP:OD1	1:S:144:GLN:N	2.49	0.45
1:S:357:SER:HB2	1:S:398:ASN:O	2.15	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:T:546:PHE:HA	1:T:555:GLU:O	2.17	0.45
1:U:143:ASP:OD1	1:U:144:GLN:N	2.49	0.45
1:V:64:HIS:CE1	1:V:510:THR:HB	2.52	0.45
1:X:64:HIS:CE1	1:X:510:THR:HB	2.52	0.45
1:Z:193:TYR:HA	1:3:311:GLY:HA3	1.99	0.45
1:Z:546:PHE:HA	1:Z:555:GLU:O	2.16	0.45
1:a:64:HIS:CE1	1:a:510:THR:HB	2.52	0.45
1:c:193:TYR:HA	1:p:311:GLY:HA3	1.99	0.45
1:d:149:ILE:O	1:d:259:THR:HG23	2.15	0.45
1:f:193:TYR:HA	1:g:311:GLY:HA3	1.99	0.45
1:g:64:HIS:CE1	1:g:510:THR:HB	2.52	0.45
1:g:158:GLY:HA3	1:g:163:GLU:HA	1.97	0.45
1:h:546:PHE:HA	1:h:555:GLU:O	2.16	0.45
1:i:357:SER:HB2	1:i:398:ASN:O	2.15	0.45
1:j:534:LEU:HD11	1:j:564:MET:HE1	1.97	0.45
1:k:143:ASP:OD1	1:k:144:GLN:N	2.49	0.45
1:l:546:PHE:HA	1:l:555:GLU:O	2.17	0.45
1:m:357:SER:HB3	1:m:402:THR:HG22	1.97	0.45
1:m:534:LEU:HD11	1:m:564:MET:HE1	1.97	0.45
1:n:64:HIS:CE1	1:n:510:THR:HB	2.52	0.45
1:n:143:ASP:OD1	1:n:144:GLN:N	2.49	0.45
1:o:546:PHE:HA	1:o:555:GLU:O	2.16	0.45
1:p:64:HIS:CE1	1:p:510:THR:HB	2.52	0.45
1:q:64:HIS:CE1	1:q:510:THR:HB	2.52	0.45
1:q:242:ASP:OD2	1:s:279:TYR:OH	2.31	0.45
1:r:534:LEU:HD11	1:r:564:MET:HE1	1.97	0.45
1:s:64:HIS:CE1	1:s:510:THR:HB	2.52	0.45
1:u:143:ASP:OD1	1:u:144:GLN:N	2.49	0.45
1:v:143:ASP:OD1	1:v:144:GLN:N	2.49	0.45
1:v:338:GLU:HG2	1:v:371:GLN:HB3	1.98	0.45
1:x:257:LEU:HD11	1:x:263:TRP:HB2	1.97	0.45
1:y:338:GLU:HG2	1:y:371:GLN:HB3	1.98	0.45
1:z:193:TYR:CE2	1:2:326:ARG:HD3	2.51	0.45
1:z:280:HIS:HB3	1:z:568:THR:HG1	1.81	0.45
1:2:534:LEU:HD11	1:2:564:MET:HE1	1.97	0.45
1:3:64:HIS:CE1	1:3:510:THR:HB	2.52	0.45
1:3:143:ASP:OD1	1:3:144:GLN:N	2.49	0.45
1:5:534:LEU:HD11	1:5:564:MET:HE1	1.97	0.45
1:6:143:ASP:OD1	1:6:144:GLN:N	2.49	0.45
1:7:357:SER:HB2	1:7:398:ASN:O	2.15	0.45
1:8:546:PHE:HA	1:8:555:GLU:O	2.16	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:311:GLY:HA3	1:N:193:TYR:HA	1.98	0.45
1:G:546:PHE:HA	1:G:555:GLU:O	2.16	0.45
1:J:143:ASP:OD1	1:J:144:GLN:N	2.49	0.45
1:J:357:SER:HB2	1:J:398:ASN:O	2.15	0.45
1:K:64:HIS:CE1	1:K:510:THR:HB	2.52	0.45
1:K:193:TYR:HA	1:8:311:GLY:HA3	1.98	0.45
1:K:338:GLU:HG2	1:K:371:GLN:HB3	1.98	0.45
1:K:546:PHE:HA	1:K:555:GLU:O	2.17	0.45
1:M:143:ASP:OD1	1:M:144:GLN:N	2.49	0.45
1:R:357:SER:HB2	1:R:398:ASN:O	2.16	0.45
1:S:152:LYS:NZ	1:S:169:ASN:OD1	2.29	0.45
1:T:64:HIS:CE1	1:T:510:THR:HB	2.52	0.45
1:W:311:GLY:HA3	1:Y:193:TYR:HA	1.98	0.45
1:W:534:LEU:HD11	1:W:564:MET:HE1	1.97	0.45
1:a:149:ILE:O	1:a:259:THR:HG23	2.15	0.45
1:b:64:HIS:CE1	1:b:510:THR:HB	2.52	0.45
1:b:158:GLY:HA3	1:b:163:GLU:HA	1.97	0.45
1:c:311:GLY:HA3	1:o:193:TYR:HA	1.99	0.45
1:f:311:GLY:HA3	1:h:193:TYR:HA	1.99	0.45
1:g:452:GLY:HA2	1:g:470:HIS:HE1	1.80	0.45
1:h:338:GLU:HG2	1:h:371:GLN:HB3	1.98	0.45
1:r:357:SER:HB2	1:r:398:ASN:O	2.16	0.45
1:s:338:GLU:HG2	1:s:371:GLN:HB3	1.98	0.45
1:t:64:HIS:CE1	1:t:510:THR:HB	2.52	0.45
1:w:64:HIS:CE1	1:w:510:THR:HB	2.52	0.45
1:z:64:HIS:CE1	1:z:510:THR:HB	2.52	0.45
1:1:63:ARG:HA	1:1:63:ARG:HD3	1.80	0.45
1:2:338:GLU:HG2	1:2:371:GLN:HB3	1.98	0.45
1:4:257:LEU:HD11	1:4:263:TRP:HB2	1.97	0.45
1:4:357:SER:HB3	1:4:402:THR:HG22	1.97	0.45
1:5:546:PHE:HA	1:5:555:GLU:O	2.17	0.45
1:C:193:TYR:HA	1:M:311:GLY:HA3	1.99	0.45
1:D:143:ASP:OD1	1:D:144:GLN:N	2.49	0.45
1:D:291:HIS:HE1	1:D:309:ILE:HD13	1.82	0.45
1:E:158:GLY:HA3	1:E:163:GLU:HA	1.97	0.45
1:F:193:TYR:HA	1:Q:311:GLY:HA3	1.99	0.45
1:J:152:LYS:NZ	1:J:169:ASN:OD1	2.29	0.45
1:K:534:LEU:HD11	1:K:564:MET:HE1	1.97	0.45
1:M:223:ILE:HD13	1:b:430:GLN:HE22	1.82	0.45
1:R:193:TYR:HA	1:U:311:GLY:HA3	1.98	0.45
1:S:546:PHE:HA	1:S:555:GLU:O	2.17	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:T:193:TYR:HA	1:l:311:GLY:HA3	1.99	0.45
1:T:338:GLU:HG2	1:T:371:GLN:HB3	1.98	0.45
1:T:534:LEU:HD11	1:T:564:MET:HE1	1.97	0.45
1:V:193:TYR:HA	1:X:311:GLY:HA3	1.99	0.45
1:X:143:ASP:OD1	1:X:144:GLN:N	2.49	0.45
1:X:223:ILE:HD13	1:e:430:GLN:HE22	1.82	0.45
1:e:64:HIS:CE1	1:e:510:THR:HB	2.52	0.45
1:e:158:GLY:HA3	1:e:163:GLU:HA	1.97	0.45
1:j:546:PHE:HA	1:j:555:GLU:O	2.17	0.45
1:m:257:LEU:HD11	1:m:263:TRP:HB2	1.98	0.45
1:o:338:GLU:HG2	1:o:371:GLN:HB3	1.98	0.45
1:q:338:GLU:HG2	1:q:371:GLN:HB3	1.98	0.45
1:q:546:PHE:HA	1:q:555:GLU:O	2.17	0.45
1:r:143:ASP:OD1	1:r:144:GLN:N	2.49	0.45
1:r:338:GLU:HG2	1:r:371:GLN:HB3	1.98	0.45
1:u:257:LEU:HD11	1:u:263:TRP:HB2	1.97	0.45
1:u:311:GLY:HA3	1:v:193:TYR:HA	1.99	0.45
1:w:257:LEU:HD11	1:w:263:TRP:HB2	1.97	0.45
1:x:143:ASP:OD1	1:x:144:GLN:N	2.50	0.45
1:x:149:ILE:O	1:x:259:THR:HG23	2.16	0.45
1:1:291:HIS:HE1	1:1:309:ILE:HD13	1.82	0.45
1:1:546:PHE:HA	1:1:555:GLU:O	2.17	0.45
1:2:143:ASP:OD1	1:2:144:GLN:N	2.49	0.45
1:4:143:ASP:OD1	1:4:144:GLN:N	2.50	0.45
1:7:143:ASP:OD1	1:7:144:GLN:N	2.49	0.45
1:8:143:ASP:OD1	1:8:144:GLN:N	2.49	0.45
1:A:546:PHE:HA	1:A:555:GLU:O	2.17	0.45
1:B:64:HIS:CE1	1:B:510:THR:HB	2.52	0.45
1:C:338:GLU:HG2	1:C:371:GLN:HB3	1.98	0.45
1:D:64:HIS:CE1	1:D:510:THR:HB	2.52	0.45
1:I:63:ARG:HD3	1:I:63:ARG:HA	1.80	0.45
1:J:149:ILE:O	1:J:259:THR:HG23	2.15	0.45
1:J:546:PHE:HA	1:J:555:GLU:O	2.16	0.45
1:N:143:ASP:OD1	1:N:144:GLN:N	2.50	0.45
1:O:242:ASP:OD2	1:n:279:TYR:OH	2.31	0.45
1:R:64:HIS:CE1	1:R:510:THR:HB	2.52	0.45
1:T:357:SER:HB2	1:T:398:ASN:O	2.16	0.45
1:U:546:PHE:HA	1:U:555:GLU:O	2.17	0.45
1:W:63:ARG:HA	1:W:63:ARG:HD3	1.80	0.45
1:W:143:ASP:OD1	1:W:144:GLN:N	2.49	0.45
1:a:265:SER:OG	1:a:266:GLY:N	2.49	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:d:311:GLY:HA3	1:l:193:TYR:HA	1.99	0.45
1:i:143:ASP:OD1	1:i:144:GLN:N	2.49	0.45
1:j:143:ASP:OD1	1:j:144:GLN:N	2.49	0.45
1:m:143:ASP:OD1	1:m:144:GLN:N	2.50	0.45
1:q:257:LEU:HD11	1:q:263:TRP:HB2	1.97	0.45
1:r:265:SER:OG	1:r:266:GLY:N	2.49	0.45
1:r:311:GLY:HA3	1:s:193:TYR:HA	1.99	0.45
1:t:257:LEU:HD11	1:t:263:TRP:HB2	1.97	0.45
1:x:311:GLY:HA3	1:y:193:TYR:HA	1.99	0.45
1:z:338:GLU:HG2	1:z:371:GLN:HB3	1.98	0.45
1:1:338:GLU:HG2	1:1:371:GLN:HB3	1.98	0.45
1:2:265:SER:OG	1:2:266:GLY:N	2.49	0.45
1:5:143:ASP:OD1	1:5:144:GLN:N	2.49	0.45
1:5:338:GLU:HG2	1:5:371:GLN:HB3	1.98	0.45
1:6:64:HIS:CE1	1:6:510:THR:HB	2.52	0.45
1:6:430:GLN:HE22	1:7:223:ILE:HD13	1.82	0.45
1:7:546:PHE:HA	1:7:555:GLU:O	2.17	0.45
1:B:158:GLY:HA3	1:B:163:GLU:HA	1.97	0.45
1:B:546:PHE:HA	1:B:555:GLU:O	2.17	0.45
1:D:193:TYR:HA	1:P:311:GLY:HA3	1.99	0.45
1:F:546:PHE:HA	1:F:555:GLU:O	2.17	0.45
1:G:158:GLY:HA3	1:G:163:GLU:HA	1.97	0.45
1:L:546:PHE:HA	1:L:555:GLU:O	2.17	0.45
1:M:193:TYR:HA	1:b:311:GLY:HA3	1.99	0.45
1:N:546:PHE:HA	1:N:555:GLU:O	2.17	0.45
1:O:430:GLN:HE22	1:m:223:ILE:HD13	1.82	0.45
1:Q:265:SER:OG	1:Q:266:GLY:N	2.49	0.45
1:U:380:ASP:OD1	1:U:381:TYR:N	2.46	0.45
1:V:143:ASP:OD1	1:V:144:GLN:N	2.50	0.45
1:V:311:GLY:HA3	1:e:193:TYR:HA	1.99	0.45
1:V:338:GLU:HG2	1:V:371:GLN:HB3	1.98	0.45
1:W:64:HIS:CE1	1:W:510:THR:HB	2.52	0.45
1:W:291:HIS:HE1	1:W:309:ILE:HD13	1.82	0.45
1:X:193:TYR:HA	1:e:311:GLY:HA3	1.99	0.45
1:Y:143:ASP:OD1	1:Y:144:GLN:N	2.50	0.45
1:Y:546:PHE:HA	1:Y:555:GLU:O	2.17	0.45
1:a:311:GLY:HA3	1:8:193:TYR:HA	1.99	0.45
1:b:279:TYR:HB2	1:b:401:ILE:HG12	1.97	0.45
1:c:64:HIS:CE1	1:c:510:THR:HB	2.52	0.45
1:c:546:PHE:HA	1:c:555:GLU:O	2.17	0.45
1:d:265:SER:OG	1:d:266:GLY:N	2.49	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:e:143:ASP:OD1	1:e:144:GLN:N	2.49	0.45
1:e:279:TYR:HB2	1:e:401:ILE:HG12	1.97	0.45
1:f:64:HIS:CE1	1:f:510:THR:HB	2.52	0.45
1:i:534:LEU:HD11	1:i:564:MET:HE1	1.97	0.45
1:i:546:PHE:HA	1:i:555:GLU:O	2.17	0.45
1:j:338:GLU:HG2	1:j:371:GLN:HB3	1.98	0.45
1:k:64:HIS:CE1	1:k:510:THR:HB	2.52	0.45
1:k:534:LEU:HD11	1:k:564:MET:HE1	1.97	0.45
1:l:143:ASP:OD1	1:l:144:GLN:N	2.49	0.45
1:q:280:HIS:HB3	1:q:568:THR:HG1	1.80	0.45
1:v:265:SER:OG	1:v:266:GLY:N	2.49	0.45
1:y:265:SER:OG	1:y:266:GLY:N	2.49	0.45
1:1:257:LEU:HD11	1:1:263:TRP:HB2	1.98	0.45
1:2:64:HIS:CE1	1:2:510:THR:HB	2.52	0.45
1:5:193:TYR:HA	1:7:311:GLY:HA3	1.99	0.45
1:7:534:LEU:HD11	1:7:564:MET:HE1	1.97	0.45
1:A:265:SER:OG	1:A:266:GLY:N	2.49	0.45
1:A:311:GLY:HA3	1:G:193:TYR:HA	1.98	0.45
1:B:193:TYR:HA	1:L:311:GLY:HA3	1.99	0.45
1:B:223:ILE:HD13	1:L:430:GLN:HE22	1.82	0.45
1:C:143:ASP:OD1	1:C:144:GLN:N	2.50	0.45
1:C:311:GLY:HA3	1:b:193:TYR:HA	1.99	0.45
1:D:223:ILE:HD13	1:P:430:GLN:HE22	1.82	0.45
1:F:265:SER:OG	1:F:266:GLY:N	2.49	0.45
1:H:311:GLY:HA3	1:W:193:TYR:HA	1.99	0.45
1:I:265:SER:OG	1:I:266:GLY:N	2.49	0.45
1:I:546:PHE:HA	1:I:555:GLU:O	2.17	0.45
1:K:357:SER:HB2	1:K:398:ASN:O	2.16	0.45
1:L:291:HIS:HE1	1:L:309:ILE:HD13	1.82	0.45
1:P:338:GLU:HG2	1:P:371:GLN:HB3	1.98	0.45
1:R:158:GLY:HA3	1:R:163:GLU:HA	1.97	0.45
1:R:223:ILE:HD13	1:U:430:GLN:HE22	1.82	0.45
1:U:265:SER:OG	1:U:266:GLY:N	2.49	0.45
1:W:380:ASP:OD1	1:W:381:TYR:N	2.46	0.45
1:X:338:GLU:HG2	1:X:371:GLN:HB3	1.98	0.45
1:Z:430:GLN:HE22	1:4:223:ILE:HD13	1.82	0.45
1:b:143:ASP:OD1	1:b:144:GLN:N	2.49	0.45
1:f:546:PHE:HA	1:f:555:GLU:O	2.17	0.45
1:g:546:PHE:HA	1:g:555:GLU:O	2.16	0.45
1:h:64:HIS:CE1	1:h:510:THR:HB	2.52	0.45
1:i:223:ILE:HD13	1:k:430:GLN:HE22	1.82	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:i:311:GLY:HA3	1:j:193:TYR:HA	1.98	0.45
1:m:338:GLU:HG2	1:m:371:GLN:HB3	1.98	0.45
1:n:338:GLU:HG2	1:n:371:GLN:HB3	1.98	0.45
1:o:64:HIS:CE1	1:o:510:THR:HB	2.52	0.45
1:q:291:HIS:HE1	1:q:309:ILE:HD13	1.82	0.45
1:t:193:TYR:HA	1:v:311:GLY:HA3	1.99	0.45
1:v:546:PHE:HA	1:v:555:GLU:O	2.17	0.45
1:w:193:TYR:HA	1:y:311:GLY:HA3	1.99	0.45
1:w:546:PHE:HA	1:w:555:GLU:O	2.16	0.45
1:y:546:PHE:HA	1:y:555:GLU:O	2.17	0.45
1:z:467:MET:HE2	1:2:439:PHE:CE1	2.51	0.45
1:3:338:GLU:HG2	1:3:371:GLN:HB3	1.98	0.45
1:4:338:GLU:HG2	1:4:371:GLN:HB3	1.98	0.45
1:A:64:HIS:CE1	1:A:510:THR:HB	2.52	0.45
1:E:64:HIS:CE1	1:E:510:THR:HB	2.52	0.45
1:F:64:HIS:CE1	1:F:510:THR:HB	2.52	0.45
1:H:257:LEU:HD11	1:H:263:TRP:HB2	1.97	0.45
1:H:430:GLN:HE22	1:W:223:ILE:HD13	1.82	0.45
1:H:546:PHE:HA	1:H:555:GLU:O	2.17	0.45
1:L:265:SER:OG	1:L:266:GLY:N	2.49	0.45
1:L:380:ASP:OD1	1:L:381:TYR:N	2.46	0.45
1:M:291:HIS:HE1	1:M:309:ILE:HD13	1.82	0.45
1:M:338:GLU:HG2	1:M:371:GLN:HB3	1.98	0.45
1:N:265:SER:OG	1:N:266:GLY:N	2.49	0.45
1:P:257:LEU:HD11	1:P:263:TRP:HB2	1.97	0.45
1:Q:546:PHE:HA	1:Q:555:GLU:O	2.16	0.45
1:R:338:GLU:HG2	1:R:371:GLN:HB3	1.98	0.45
1:R:546:PHE:HA	1:R:555:GLU:O	2.17	0.45
1:S:149:ILE:O	1:S:259:THR:HG23	2.16	0.45
1:a:380:ASP:OD1	1:a:381:TYR:N	2.46	0.45
1:c:143:ASP:OD1	1:c:144:GLN:N	2.49	0.45
1:d:380:ASP:OD1	1:d:381:TYR:N	2.46	0.45
1:p:546:PHE:HA	1:p:555:GLU:O	2.17	0.45
1:t:546:PHE:HA	1:t:555:GLU:O	2.16	0.45
1:u:64:HIS:CE1	1:u:510:THR:HB	2.52	0.45
1:3:546:PHE:HA	1:3:555:GLU:O	2.17	0.45
1:6:291:HIS:HE1	1:6:309:ILE:HD13	1.82	0.45
1:B:338:GLU:HG2	1:B:371:GLN:HB3	1.98	0.44
1:D:380:ASP:OD1	1:D:381:TYR:N	2.46	0.44
1:E:193:TYR:HA	1:F:311:GLY:HA3	1.99	0.44
1:G:64:HIS:CE1	1:G:510:THR:HB	2.52	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:265:SER:OG	1:G:266:GLY:N	2.49	0.44
1:H:338:GLU:HG2	1:H:371:GLN:HB3	1.98	0.44
1:K:430:GLN:HE22	1:a:223:ILE:HD13	1.82	0.44
1:M:534:LEU:HD11	1:M:564:MET:HE1	1.97	0.44
1:N:338:GLU:HG2	1:N:371:GLN:HB3	1.98	0.44
1:T:430:GLN:HE22	1:d:223:ILE:HD13	1.82	0.44
1:U:64:HIS:CE1	1:U:510:THR:HB	2.52	0.44
1:U:291:HIS:HE1	1:U:309:ILE:HD13	1.82	0.44
1:X:291:HIS:HE1	1:X:309:ILE:HD13	1.82	0.44
1:X:534:LEU:HD11	1:X:564:MET:HE1	1.97	0.44
1:Y:265:SER:OG	1:Y:266:GLY:N	2.49	0.44
1:Y:338:GLU:HG2	1:Y:371:GLN:HB3	1.98	0.44
1:d:143:ASP:OD1	1:d:144:GLN:N	2.49	0.44
1:f:143:ASP:OD1	1:f:144:GLN:N	2.49	0.44
1:g:193:TYR:HA	1:h:311:GLY:HA3	1.99	0.44
1:k:283:SER:O	1:k:287:THR:OG1	2.35	0.44
1:l:380:ASP:OD1	1:l:381:TYR:N	2.46	0.44
1:n:546:PHE:HA	1:n:555:GLU:O	2.17	0.44
1:o:311:GLY:HA3	1:p:193:TYR:HA	1.99	0.44
1:q:234:VAL:HG13	1:s:363:THR:HG22	2.00	0.44
1:r:64:HIS:CE1	1:r:510:THR:HB	2.52	0.44
1:s:143:ASP:OD1	1:s:144:GLN:N	2.49	0.44
1:t:279:TYR:OH	1:u:242:ASP:OD2	2.32	0.44
1:u:265:SER:OG	1:u:266:GLY:N	2.49	0.44
1:u:546:PHE:HA	1:u:555:GLU:O	2.17	0.44
1:x:265:SER:OG	1:x:266:GLY:N	2.49	0.44
1:z:188:VAL:CG2	1:2:289:SER:HA	2.48	0.44
1:z:311:GLY:HA3	1:1:193:TYR:HA	1.98	0.44
1:6:534:LEU:HD11	1:6:564:MET:HE1	1.97	0.44
1:8:64:HIS:CE1	1:8:510:THR:HB	2.52	0.44
1:E:265:SER:OG	1:E:266:GLY:N	2.49	0.44
1:P:546:PHE:HA	1:P:555:GLU:O	2.17	0.44
1:U:338:GLU:HG2	1:U:371:GLN:HB3	1.98	0.44
1:W:338:GLU:HG2	1:W:371:GLN:HB3	1.98	0.44
1:a:143:ASP:OD1	1:a:144:GLN:N	2.49	0.44
1:d:338:GLU:HG2	1:d:371:GLN:HB3	1.98	0.44
1:e:546:PHE:HA	1:e:555:GLU:O	2.17	0.44
1:f:291:HIS:HE1	1:f:309:ILE:HD13	1.82	0.44
1:g:265:SER:OG	1:g:266:GLY:N	2.49	0.44
1:i:380:ASP:OD1	1:i:381:TYR:N	2.46	0.44
1:k:414:GLN:HG2	1:k:427:PHE:HD1	1.83	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:l:64:HIS:CE1	1:l:510:THR:HB	2.52	0.44
1:p:265:SER:OG	1:p:266:GLY:N	2.49	0.44
1:q:311:GLY:HA3	1:r:193:TYR:HA	1.99	0.44
1:r:430:GLN:HE22	1:s:223:ILE:HD13	1.82	0.44
1:t:291:HIS:HE1	1:t:309:ILE:HD13	1.82	0.44
1:w:143:ASP:OD1	1:w:144:GLN:N	2.49	0.44
1:x:64:HIS:CE1	1:x:510:THR:HB	2.52	0.44
1:x:430:GLN:HE22	1:y:223:ILE:HD13	1.82	0.44
1:z:143:ASP:OD1	1:z:144:GLN:N	2.49	0.44
1:z:363:THR:HG22	1:1:234:VAL:HG13	2.00	0.44
1:6:283:SER:O	1:6:287:THR:OG1	2.35	0.44
1:K:414:GLN:HG2	1:K:427:PHE:HD1	1.83	0.44
1:L:64:HIS:CE1	1:L:510:THR:HB	2.52	0.44
1:R:311:GLY:HA3	1:S:193:TYR:HA	1.99	0.44
1:T:63:ARG:HD3	1:T:63:ARG:HA	1.80	0.44
1:V:430:GLN:HE22	1:e:223:ILE:HD13	1.82	0.44
1:W:430:GLN:HE22	1:Y:223:ILE:HD13	1.82	0.44
1:b:546:PHE:HA	1:b:555:GLU:O	2.17	0.44
1:c:291:HIS:HE1	1:c:309:ILE:HD13	1.82	0.44
1:c:430:GLN:HE22	1:o:223:ILE:HD13	1.82	0.44
1:e:338:GLU:HG2	1:e:371:GLN:HB3	1.98	0.44
1:e:380:ASP:OD1	1:e:381:TYR:N	2.46	0.44
1:q:193:TYR:HA	1:s:311:GLY:HA3	1.99	0.44
1:u:430:GLN:HE22	1:v:223:ILE:HD13	1.82	0.44
1:w:279:TYR:OH	1:x:242:ASP:OD2	2.32	0.44
1:x:546:PHE:HA	1:x:555:GLU:O	2.17	0.44
1:7:380:ASP:OD1	1:7:381:TYR:N	2.46	0.44
1:A:430:GLN:HE22	1:G:223:ILE:HD13	1.82	0.44
1:C:414:GLN:HG2	1:C:427:PHE:HD1	1.83	0.44
1:C:430:GLN:HE22	1:b:223:ILE:HD13	1.82	0.44
1:D:338:GLU:HG2	1:D:371:GLN:HB3	1.98	0.44
1:D:430:GLN:HE22	1:N:223:ILE:HD13	1.82	0.44
1:H:225:GLY:HA3	1:H:230:GLN:HB2	2.00	0.44
1:L:338:GLU:HG2	1:L:371:GLN:HB3	1.98	0.44
1:N:311:GLY:HA3	1:P:193:TYR:HA	1.98	0.44
1:T:414:GLN:HG2	1:T:427:PHE:HD1	1.83	0.44
1:V:414:GLN:HG2	1:V:427:PHE:HD1	1.83	0.44
1:a:338:GLU:HG2	1:a:371:GLN:HB3	1.98	0.44
1:b:338:GLU:HG2	1:b:371:GLN:HB3	1.98	0.44
1:d:430:GLN:HE22	1:l:223:ILE:HD13	1.82	0.44
1:f:257:LEU:HD11	1:f:263:TRP:HB2	1.97	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:f:430:GLN:HE22	1:h:223:ILE:HD13	1.82	0.44
1:h:143:ASP:OD1	1:h:144:GLN:N	2.49	0.44
1:p:414:GLN:HG2	1:p:427:PHE:HD1	1.83	0.44
1:t:143:ASP:OD1	1:t:144:GLN:N	2.49	0.44
1:w:291:HIS:HE1	1:w:309:ILE:HD13	1.82	0.44
1:y:380:ASP:OD1	1:y:381:TYR:N	2.46	0.44
1:1:280:HIS:HB3	1:1:568:THR:HG1	1.81	0.44
1:1:311:GLY:HA3	1:2:193:TYR:HA	1.99	0.44
1:A:223:ILE:HD13	1:I:430:GLN:HE22	1.82	0.44
1:B:311:GLY:HA3	1:J:193:TYR:HA	1.99	0.44
1:O:265:SER:OG	1:O:266:GLY:N	2.49	0.44
1:P:225:GLY:HA3	1:P:230:GLN:HB2	2.00	0.44
1:S:291:HIS:HE1	1:S:309:ILE:HD13	1.82	0.44
1:V:223:ILE:HD13	1:X:430:GLN:HE22	1.82	0.44
1:X:283:SER:O	1:X:287:THR:OG1	2.35	0.44
1:b:380:ASP:OD1	1:b:381:TYR:N	2.46	0.44
1:c:257:LEU:HD11	1:c:263:TRP:HB2	1.97	0.44
1:g:225:GLY:HA3	1:g:230:GLN:HB2	2.00	0.44
1:g:414:GLN:HG2	1:g:427:PHE:HD1	1.83	0.44
1:i:283:SER:O	1:i:287:THR:OG1	2.35	0.44
1:k:291:HIS:HE1	1:k:309:ILE:HD13	1.82	0.44
1:o:143:ASP:OD1	1:o:144:GLN:N	2.49	0.44
1:p:225:GLY:HA3	1:p:230:GLN:HB2	2.00	0.44
1:t:234:VAL:HG13	1:v:363:THR:HG22	2.00	0.44
1:w:311:GLY:HA3	1:x:193:TYR:HA	1.99	0.44
1:y:414:GLN:HG2	1:y:427:PHE:HD1	1.83	0.44
1:1:326:ARG:HD3	1:2:193:TYR:CE2	2.52	0.44
1:3:265:SER:OG	1:3:266:GLY:N	2.49	0.44
1:6:338:GLU:HG2	1:6:371:GLN:HB3	1.98	0.44
1:6:414:GLN:HG2	1:6:427:PHE:HD1	1.83	0.44
1:7:283:SER:O	1:7:287:THR:OG1	2.35	0.44
1:8:225:GLY:HA3	1:8:230:GLN:HB2	2.00	0.44
1:8:380:ASP:OD1	1:8:381:TYR:N	2.46	0.44
1:A:380:ASP:OD1	1:A:381:TYR:N	2.46	0.44
1:E:338:GLU:HG2	1:E:371:GLN:HB3	1.98	0.44
1:H:193:TYR:HA	1:Y:311:GLY:HA3	1.98	0.44
1:I:338:GLU:HG2	1:I:371:GLN:HB3	1.98	0.44
1:J:414:GLN:HG2	1:J:427:PHE:HD1	1.83	0.44
1:M:283:SER:O	1:M:287:THR:OG1	2.35	0.44
1:N:64:HIS:CE1	1:N:510:THR:HB	2.52	0.44
1:N:537:ARG:NH2	1:O:533:ASN:HD21	2.16	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Q:338:GLU:HG2	1:Q:371:GLN:HB3	1.98	0.44
1:S:414:GLN:HG2	1:S:427:PHE:HD1	1.83	0.44
1:Y:537:ARG:NH2	1:Z:533:ASN:HD21	2.16	0.44
1:Z:265:SER:OG	1:Z:266:GLY:N	2.49	0.44
1:a:414:GLN:HG2	1:a:427:PHE:HD1	1.83	0.44
1:c:363:THR:HG22	1:o:234:VAL:HG13	2.00	0.44
1:d:414:GLN:HG2	1:d:427:PHE:HD1	1.83	0.44
1:l:225:GLY:HA3	1:l:230:GLN:HB2	2.00	0.44
1:m:283:SER:O	1:m:287:THR:OG1	2.35	0.44
1:r:291:HIS:HE1	1:r:309:ILE:HD13	1.82	0.44
1:t:311:GLY:HA3	1:u:193:TYR:HA	1.99	0.44
1:v:414:GLN:HG2	1:v:427:PHE:HD1	1.83	0.44
1:4:64:HIS:CE1	1:4:510:THR:HB	2.52	0.44
1:B:371:GLN:OE1	1:B:371:GLN:N	2.51	0.44
1:C:223:ILE:HD13	1:M:430:GLN:HE22	1.82	0.44
1:D:371:GLN:OE1	1:D:371:GLN:N	2.51	0.44
1:E:63:ARG:HA	1:E:63:ARG:HD3	1.80	0.44
1:E:223:ILE:HD13	1:F:430:GLN:HE22	1.82	0.44
1:E:371:GLN:OE1	1:E:371:GLN:N	2.51	0.44
1:F:380:ASP:OD1	1:F:381:TYR:N	2.46	0.44
1:G:338:GLU:HG2	1:G:371:GLN:HB3	1.98	0.44
1:G:371:GLN:OE1	1:G:371:GLN:N	2.51	0.44
1:I:371:GLN:OE1	1:I:371:GLN:N	2.51	0.44
1:J:291:HIS:HE1	1:J:309:ILE:HD13	1.82	0.44
1:M:414:GLN:HG2	1:M:427:PHE:HD1	1.83	0.44
1:M:546:PHE:HA	1:M:555:GLU:O	2.16	0.44
1:N:430:GLN:HE22	1:P:223:ILE:HD13	1.82	0.44
1:O:363:THR:HG22	1:m:234:VAL:HG13	2.00	0.44
1:Q:371:GLN:OE1	1:Q:371:GLN:N	2.51	0.44
1:R:234:VAL:HG13	1:U:363:THR:HG22	2.00	0.44
1:R:371:GLN:OE1	1:R:371:GLN:N	2.51	0.44
1:T:311:GLY:HA3	1:d:193:TYR:HA	1.99	0.44
1:U:225:GLY:HA3	1:U:230:GLN:HB2	2.00	0.44
1:W:371:GLN:OE1	1:W:371:GLN:N	2.51	0.44
1:X:414:GLN:HG2	1:X:427:PHE:HD1	1.83	0.44
1:Y:64:HIS:CE1	1:Y:510:THR:HB	2.52	0.44
1:Z:363:THR:HG22	1:4:234:VAL:HG13	2.00	0.44
1:a:430:GLN:HE22	1:8:223:ILE:HD13	1.82	0.44
1:c:225:GLY:HA3	1:c:230:GLN:HB2	2.00	0.44
1:f:225:GLY:HA3	1:f:230:GLN:HB2	2.00	0.44
1:h:414:GLN:HG2	1:h:427:PHE:HD1	1.83	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:k:338:GLU:HG2	1:k:371:GLN:HB3	1.98	0.44
1:n:265:SER:OG	1:n:266:GLY:N	2.49	0.44
1:q:430:GLN:HE22	1:r:223:ILE:HD13	1.82	0.44
1:r:363:THR:HG22	1:s:234:VAL:HG13	2.00	0.44
1:s:414:GLN:HG2	1:s:427:PHE:HD1	1.83	0.44
1:v:380:ASP:OD1	1:v:381:TYR:N	2.46	0.44
1:w:234:VAL:HG13	1:y:363:THR:HG22	2.00	0.44
1:z:414:GLN:HG2	1:z:427:PHE:HD1	1.83	0.44
1:2:291:HIS:HE1	1:2:309:ILE:HD13	1.82	0.44
1:3:291:HIS:HE1	1:3:309:ILE:HD13	1.82	0.44
1:8:414:GLN:HG2	1:8:427:PHE:HD1	1.83	0.44
1:A:242:ASP:OD2	1:I:279:TYR:OH	2.32	0.44
1:A:363:THR:HG22	1:G:234:VAL:HG13	2.00	0.44
1:B:234:VAL:HG13	1:L:363:THR:HG22	2.00	0.44
1:C:363:THR:HG22	1:b:234:VAL:HG13	2.00	0.44
1:E:414:GLN:HG2	1:E:427:PHE:HD1	1.83	0.44
1:E:430:GLN:HE22	1:Q:223:ILE:HD13	1.82	0.44
1:G:414:GLN:HG2	1:G:427:PHE:HD1	1.83	0.44
1:N:371:GLN:N	1:N:371:GLN:OE1	2.51	0.44
1:P:291:HIS:HE1	1:P:309:ILE:HD13	1.82	0.44
1:R:430:GLN:HE22	1:S:223:ILE:HD13	1.82	0.44
1:W:414:GLN:HG2	1:W:427:PHE:HD1	1.83	0.44
1:Y:371:GLN:N	1:Y:371:GLN:OE1	2.51	0.44
1:Z:379:PHE:HA	1:3:310:ASN:HB2	2.00	0.44
1:f:363:THR:HG22	1:h:234:VAL:HG13	2.00	0.44
1:j:225:GLY:HA3	1:j:230:GLN:HB2	2.00	0.44
1:j:430:GLN:HE22	1:k:223:ILE:HD13	1.82	0.44
1:l:414:GLN:HG2	1:l:427:PHE:HD1	1.83	0.44
1:m:64:HIS:CE1	1:m:510:THR:HB	2.52	0.44
1:m:279:TYR:OH	1:n:242:ASP:OD2	2.32	0.44
1:m:371:GLN:OE1	1:m:371:GLN:N	2.51	0.44
1:o:414:GLN:HG2	1:o:427:PHE:HD1	1.83	0.44
1:u:225:GLY:HA3	1:u:230:GLN:HB2	2.00	0.44
1:x:225:GLY:HA3	1:x:230:GLN:HB2	2.00	0.44
1:z:430:GLN:HE22	1:1:223:ILE:HD13	1.82	0.44
1:2:164:THR:HG21	1:3:157[B]:GLN:HG2	1.99	0.44
1:2:371:GLN:OE1	1:2:371:GLN:N	2.51	0.44
1:4:283:SER:O	1:4:287:THR:OG1	2.35	0.44
1:5:225:GLY:HA3	1:5:230:GLN:HB2	2.00	0.44
1:5:311:GLY:HA3	1:6:193:TYR:HA	1.98	0.44
1:5:430:GLN:HE22	1:6:223:ILE:HD13	1.82	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:430:GLN:HE22	1:J:223:ILE:HD13	1.82	0.44
1:D:414:GLN:HG2	1:D:427:PHE:HD1	1.83	0.44
1:D:533:ASN:HD21	1:M:537:ARG:NH2	2.16	0.44
1:E:234:VAL:HG13	1:F:363:THR:HG22	2.00	0.44
1:F:242:ASP:OD2	1:Q:279:TYR:OH	2.32	0.44
1:G:430:GLN:HE22	1:I:223:ILE:HD13	1.82	0.44
1:H:223:ILE:HD13	1:Y:430:GLN:HE22	1.82	0.44
1:H:291:HIS:HE1	1:H:309:ILE:HD13	1.82	0.44
1:I:69:MET:HG2	1:I:70:SER:N	2.33	0.44
1:K:63:ARG:HD3	1:K:63:ARG:HA	1.80	0.44
1:K:234:VAL:HG13	1:8:363:THR:HG22	2.00	0.44
1:K:311:GLY:HA3	1:a:193:TYR:HA	1.99	0.44
1:L:225:GLY:HA3	1:L:230:GLN:HB2	2.00	0.44
1:M:371:GLN:OE1	1:M:371:GLN:N	2.51	0.44
1:N:414:GLN:HG2	1:N:427:PHE:HD1	1.83	0.44
1:O:225:GLY:HA3	1:O:230:GLN:HB2	2.00	0.44
1:O:379:PHE:HA	1:n:310:ASN:HB2	2.00	0.44
1:T:234:VAL:HG13	1:l:363:THR:HG22	2.00	0.44
1:V:363:THR:HG22	1:e:234:VAL:HG13	2.00	0.44
1:X:546:PHE:HA	1:X:555:GLU:O	2.16	0.44
1:m:225:GLY:HA3	1:m:230:GLN:HB2	2.00	0.44
1:m:414:GLN:HG2	1:m:427:PHE:HD1	1.83	0.44
1:o:63:ARG:HA	1:o:63:ARG:HD3	1.80	0.44
1:r:371:GLN:OE1	1:r:371:GLN:N	2.51	0.44
1:t:371:GLN:OE1	1:t:371:GLN:N	2.51	0.44
1:t:430:GLN:HE22	1:u:223:ILE:HD13	1.82	0.44
1:u:338:GLU:HG2	1:u:371:GLN:HB3	1.98	0.44
1:y:225:GLY:HA3	1:y:230:GLN:HB2	2.00	0.44
1:2:225:GLY:HA3	1:2:230:GLN:HB2	2.00	0.44
1:4:225:GLY:HA3	1:4:230:GLN:HB2	2.00	0.44
1:4:371:GLN:OE1	1:4:371:GLN:N	2.51	0.44
1:4:414:GLN:HG2	1:4:427:PHE:HD1	1.83	0.44
1:F:223:ILE:HD13	1:Q:430:GLN:HE22	1.82	0.43
1:F:414:GLN:HG2	1:F:427:PHE:HD1	1.83	0.43
1:M:225:GLY:HA3	1:M:230:GLN:HB2	2.00	0.43
1:O:223:ILE:HD13	1:n:430:GLN:HE22	1.82	0.43
1:Q:69:MET:HG2	1:Q:70:SER:N	2.33	0.43
1:Q:537:ARG:NH2	1:R:533:ASN:HD21	2.16	0.43
1:W:533:ASN:HD21	1:X:537:ARG:NH2	2.16	0.43
1:X:265:SER:OG	1:X:266:GLY:N	2.49	0.43
1:X:371:GLN:OE1	1:X:371:GLN:N	2.51	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Y:414:GLN:HG2	1:Y:427:PHE:HD1	1.83	0.43
1:Z:223:ILE:HD13	1:3:430:GLN:HE22	1.82	0.43
1:Z:225:GLY:HA3	1:Z:230:GLN:HB2	2.00	0.43
1:c:234:VAL:HG13	1:p:363:THR:HG22	2.00	0.43
1:f:223:ILE:HD13	1:g:430:GLN:HE22	1.82	0.43
1:f:234:VAL:HG13	1:g:363:THR:HG22	2.00	0.43
1:i:234:VAL:HG13	1:k:363:THR:HG22	2.00	0.43
1:j:279:TYR:OH	1:k:242:ASP:OD2	2.31	0.43
1:j:311:GLY:HA3	1:k:193:TYR:HA	1.98	0.43
1:n:291:HIS:HE1	1:n:309:ILE:HD13	1.82	0.43
1:n:371:GLN:OE1	1:n:371:GLN:N	2.51	0.43
1:q:223:ILE:HD13	1:s:430:GLN:HE22	1.82	0.43
1:r:225:GLY:HA3	1:r:230:GLN:HB2	2.00	0.43
1:v:225:GLY:HA3	1:v:230:GLN:HB2	2.00	0.43
1:w:371:GLN:OE1	1:w:371:GLN:N	2.51	0.43
1:w:430:GLN:HE22	1:x:223:ILE:HD13	1.82	0.43
1:3:223:ILE:HD13	1:4:430:GLN:HE22	1.83	0.43
1:A:225:GLY:HA3	1:A:230:GLN:HB2	2.00	0.43
1:B:242:ASP:OD2	1:L:279:TYR:OH	2.31	0.43
1:B:431:ASP:HB2	1:J:340:ARG:HH12	1.84	0.43
1:B:533:ASN:HD21	1:I:537:ARG:NH2	2.16	0.43
1:D:363:THR:HG22	1:N:234:VAL:HG13	2.00	0.43
1:E:311:GLY:HA3	1:Q:193:TYR:HA	1.99	0.43
1:G:63:ARG:HD3	1:G:63:ARG:HA	1.80	0.43
1:G:537:ARG:NH2	1:H:533:ASN:HD21	2.16	0.43
1:J:225:GLY:HA3	1:J:230:GLN:HB2	2.00	0.43
1:J:430:GLN:HE22	1:L:223:ILE:HD13	1.82	0.43
1:O:69:MET:HG2	1:O:70:SER:N	2.33	0.43
1:O:234:VAL:HG13	1:n:363:THR:HG22	2.00	0.43
1:S:225:GLY:HA3	1:S:230:GLN:HB2	2.00	0.43
1:W:283:SER:O	1:W:287:THR:OG1	2.35	0.43
1:W:363:THR:HG22	1:Y:234:VAL:HG13	2.00	0.43
1:X:225:GLY:HA3	1:X:230:GLN:HB2	2.00	0.43
1:Z:69:MET:HG2	1:Z:70:SER:N	2.33	0.43
1:b:225:GLY:HA3	1:b:230:GLN:HB2	2.00	0.43
1:c:223:ILE:HD13	1:p:430:GLN:HE22	1.82	0.43
1:d:371:GLN:OE1	1:d:371:GLN:N	2.51	0.43
1:k:225:GLY:HA3	1:k:230:GLN:HB2	2.00	0.43
1:t:242:ASP:OD2	1:v:279:TYR:OH	2.31	0.43
1:w:242:ASP:OD2	1:y:279:TYR:OH	2.31	0.43
1:x:338:GLU:HG2	1:x:371:GLN:HB3	1.98	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:x:363:THR:HG22	1:y:234:VAL:HG13	2.00	0.43
1:x:414:GLN:HG2	1:x:427:PHE:HD1	1.83	0.43
1:3:371:GLN:N	1:3:371:GLN:OE1	2.51	0.43
1:3:380:ASP:OD1	1:3:381:TYR:N	2.46	0.43
1:5:223:ILE:HD13	1:7:430:GLN:HE22	1.82	0.43
1:6:225:GLY:HA3	1:6:230:GLN:HB2	2.00	0.43
1:6:363:THR:HG22	1:7:234:VAL:HG13	2.00	0.43
1:A:414:GLN:HG2	1:A:427:PHE:HD1	1.83	0.43
1:D:283:SER:O	1:D:287:THR:OG1	2.35	0.43
1:E:537:ARG:NH2	1:P:533:ASN:HD21	2.16	0.43
1:F:225:GLY:HA3	1:F:230:GLN:HB2	2.00	0.43
1:K:371:GLN:N	1:K:371:GLN:OE1	2.51	0.43
1:M:265:SER:OG	1:M:266:GLY:N	2.49	0.43
1:R:242:ASP:OD2	1:U:279:TYR:OH	2.31	0.43
1:R:431:ASP:HB2	1:S:340:ARG:HH12	1.84	0.43
1:S:430:GLN:HE22	1:U:223:ILE:HD13	1.82	0.43
1:T:371:GLN:OE1	1:T:371:GLN:N	2.51	0.43
1:Z:234:VAL:HG13	1:3:363:THR:HG22	2.00	0.43
1:b:414:GLN:HG2	1:b:427:PHE:HD1	1.83	0.43
1:e:225:GLY:HA3	1:e:230:GLN:HB2	2.00	0.43
1:e:414:GLN:HG2	1:e:427:PHE:HD1	1.83	0.43
1:g:380:ASP:OD1	1:g:381:TYR:N	2.46	0.43
1:i:225:GLY:HA3	1:i:230:GLN:HB2	2.00	0.43
1:i:430:GLN:HE22	1:j:223:ILE:HD13	1.82	0.43
1:j:430:GLN:NE2	1:k:223:ILE:HG21	2.34	0.43
1:m:430:GLN:HE22	1:n:223:ILE:HD13	1.83	0.43
1:n:380:ASP:OD1	1:n:381:TYR:N	2.46	0.43
1:p:371:GLN:OE1	1:p:371:GLN:N	2.51	0.43
1:t:533:ASN:HD21	1:5:537:ARG:NH2	2.16	0.43
1:u:363:THR:HG22	1:v:234:VAL:HG13	2.00	0.43
1:u:414:GLN:HG2	1:u:427:PHE:HD1	1.83	0.43
1:3:242:ASP:OD2	1:4:279:TYR:OH	2.32	0.43
1:7:225:GLY:HA3	1:7:230:GLN:HB2	2.00	0.43
1:D:225:GLY:HA3	1:D:230:GLN:HB2	2.00	0.43
1:E:225:GLY:HA3	1:E:230:GLN:HB2	2.00	0.43
1:E:431:ASP:HB2	1:Q:340:ARG:HH12	1.84	0.43
1:G:225:GLY:HA3	1:G:230:GLN:HB2	2.00	0.43
1:G:311:GLY:HA3	1:I:193:TYR:HA	1.99	0.43
1:H:223:ILE:HG21	1:Y:430:GLN:NE2	2.34	0.43
1:H:430:GLN:NE2	1:W:223:ILE:HG21	2.34	0.43
1:K:363:THR:HG22	1:a:234:VAL:HG13	2.00	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:430:GLN:NE2	1:P:223:ILE:HG21	2.33	0.43
1:W:225:GLY:HA3	1:W:230:GLN:HB2	2.00	0.43
1:a:431:ASP:HB2	1:8:340:ARG:HH12	1.84	0.43
1:c:371:GLN:OE1	1:c:371:GLN:N	2.51	0.43
1:d:69:MET:HG2	1:d:70:SER:N	2.33	0.43
1:d:431:ASP:HB2	1:l:340:ARG:HH12	1.84	0.43
1:f:371:GLN:OE1	1:f:371:GLN:N	2.51	0.43
1:f:379:PHE:HA	1:g:310:ASN:HB2	2.01	0.43
1:g:242:ASP:OD2	1:h:279:TYR:OH	2.32	0.43
1:i:430:GLN:NE2	1:j:223:ILE:HG21	2.34	0.43
1:j:537:ARG:NH2	1:w:533:ASN:HD21	2.16	0.43
1:w:379:PHE:HA	1:y:310:ASN:HB2	2.01	0.43
1:x:371:GLN:OE1	1:x:371:GLN:N	2.51	0.43
1:2:533:ASN:HD21	1:4:537:ARG:NH2	2.16	0.43
1:5:430:GLN:NE2	1:6:223:ILE:HG21	2.34	0.43
1:7:414:GLN:HG2	1:7:427:PHE:HD1	1.83	0.43
1:7:537:ARG:NH2	1:8:533:ASN:HD21	2.16	0.43
1:B:430:GLN:NE2	1:J:223:ILE:HG21	2.34	0.43
1:C:225:GLY:HA3	1:C:230:GLN:HB2	2.00	0.43
1:D:223:ILE:HG21	1:P:430:GLN:NE2	2.34	0.43
1:E:363:THR:HG22	1:Q:234:VAL:HG13	2.00	0.43
1:G:363:THR:HG22	1:I:234:VAL:HG13	2.01	0.43
1:G:431:ASP:HB2	1:I:340:ARG:HH12	1.84	0.43
1:H:283:SER:O	1:H:287:THR:OG1	2.35	0.43
1:I:283:SER:O	1:I:287:THR:OG1	2.35	0.43
1:L:371:GLN:OE1	1:L:371:GLN:N	2.51	0.43
1:M:63:ARG:HD3	1:M:63:ARG:HA	1.80	0.43
1:P:414:GLN:HG2	1:P:427:PHE:HD1	1.83	0.43
1:R:430:GLN:NE2	1:S:223:ILE:HG21	2.34	0.43
1:T:363:THR:HG22	1:d:234:VAL:HG13	2.00	0.43
1:X:340:ARG:HH12	1:e:431:ASP:HB2	1.84	0.43
1:Z:283:SER:O	1:Z:287:THR:OG1	2.35	0.43
1:Z:414:GLN:HG2	1:Z:427:PHE:HD1	1.83	0.43
1:a:69:MET:HG2	1:a:70:SER:N	2.33	0.43
1:b:371:GLN:OE1	1:b:371:GLN:N	2.51	0.43
1:f:279:TYR:OH	1:h:242:ASP:OD2	2.31	0.43
1:i:223:ILE:HG21	1:k:430:GLN:NE2	2.34	0.43
1:i:537:ARG:NH2	1:l:533:ASN:HD21	2.16	0.43
1:o:265:SER:OG	1:o:266:GLY:N	2.49	0.43
1:o:279:TYR:OH	1:p:242:ASP:OD2	2.32	0.43
1:o:371:GLN:OE1	1:o:371:GLN:N	2.51	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:r:414:GLN:HG2	1:r:427:PHE:HD1	1.83	0.43
1:t:379:PHE:HA	1:v:310:ASN:HB2	2.01	0.43
1:u:371:GLN:OE1	1:u:371:GLN:N	2.51	0.43
1:z:430:GLN:NE2	1:1:223:ILE:HG21	2.33	0.43
1:5:223:ILE:HG21	1:7:430:GLN:NE2	2.34	0.43
1:5:279:TYR:OH	1:6:242:ASP:OD2	2.31	0.43
1:6:430:GLN:NE2	1:7:223:ILE:HG21	2.34	0.43
1:B:363:THR:HG22	1:J:234:VAL:HG13	2.00	0.43
1:C:291:HIS:HE1	1:C:309:ILE:HD13	1.82	0.43
1:C:430:GLN:NE2	1:b:223:ILE:HG21	2.34	0.43
1:C:431:ASP:HB2	1:b:340:ARG:HH12	1.84	0.43
1:D:234:VAL:HG13	1:P:363:THR:HG22	2.00	0.43
1:D:537:ARG:NH2	1:M:533:ASN:HD21	2.16	0.43
1:E:379:PHE:HA	1:F:310:ASN:HB2	2.01	0.43
1:H:414:GLN:HG2	1:H:427:PHE:HD1	1.83	0.43
1:M:223:ILE:HG21	1:b:430:GLN:NE2	2.34	0.43
1:M:340:ARG:HH12	1:b:431:ASP:HB2	1.84	0.43
1:N:533:ASN:HD21	1:O:537:ARG:NH2	2.16	0.43
1:O:283:SER:O	1:O:287:THR:OG1	2.35	0.43
1:O:371:GLN:OE1	1:O:371:GLN:N	2.51	0.43
1:P:283:SER:O	1:P:287:THR:OG1	2.35	0.43
1:U:371:GLN:OE1	1:U:371:GLN:N	2.51	0.43
1:V:225:GLY:HA3	1:V:230:GLN:HB2	2.00	0.43
1:V:430:GLN:NE2	1:e:223:ILE:HG21	2.34	0.43
1:W:537:ARG:NH2	1:X:533:ASN:HD21	2.16	0.43
1:X:223:ILE:HG21	1:e:430:GLN:NE2	2.34	0.43
1:c:223:ILE:HG21	1:p:430:GLN:NE2	2.34	0.43
1:e:371:GLN:OE1	1:e:371:GLN:N	2.51	0.43
1:i:414:GLN:HG2	1:i:427:PHE:HD1	1.83	0.43
1:j:363:THR:HG22	1:k:234:VAL:HG13	2.00	0.43
1:l:371:GLN:OE1	1:l:371:GLN:N	2.51	0.43
1:o:430:GLN:HE22	1:p:223:ILE:HD13	1.82	0.43
1:q:69:MET:HG2	1:q:70:SER:N	2.33	0.43
1:1:69:MET:HG2	1:1:70:SER:N	2.33	0.43
1:A:188:VAL:CG2	1:I:289:SER:HA	2.49	0.43
1:A:310:ASN:HB2	1:G:379:PHE:HA	2.01	0.43
1:B:225:GLY:HA3	1:B:230:GLN:HB2	2.00	0.43
1:C:537:ARG:NH2	1:L:533:ASN:HD21	2.16	0.43
1:J:310:ASN:HB2	1:L:379:PHE:HA	2.01	0.43
1:M:188:VAL:CG2	1:b:289:SER:HA	2.49	0.43
1:N:291:HIS:HE1	1:N:309:ILE:HD13	1.82	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:363:THR:HG22	1:P:234:VAL:HG13	2.00	0.43
1:O:414:GLN:HG2	1:O:427:PHE:HD1	1.83	0.43
1:Q:283:SER:O	1:Q:287:THR:OG1	2.35	0.43
1:R:225:GLY:HA3	1:R:230:GLN:HB2	2.00	0.43
1:S:310:ASN:HB2	1:U:379:PHE:HA	2.01	0.43
1:U:533:ASN:HD21	1:V:537:ARG:NH2	2.17	0.43
1:V:431:ASP:HB2	1:e:340:ARG:HH12	1.84	0.43
1:Y:291:HIS:HE1	1:Y:309:ILE:HD13	1.82	0.43
1:Y:533:ASN:HD21	1:Z:537:ARG:NH2	2.16	0.43
1:Z:371:GLN:OE1	1:Z:371:GLN:N	2.51	0.43
1:c:279:TYR:OH	1:o:242:ASP:OD2	2.31	0.43
1:c:379:PHE:HA	1:p:310:ASN:HB2	2.01	0.43
1:c:414:GLN:HG2	1:c:427:PHE:HD1	1.83	0.43
1:f:223:ILE:HG21	1:g:430:GLN:NE2	2.34	0.43
1:g:223:ILE:HD13	1:h:430:GLN:HE22	1.82	0.43
1:h:63:ARG:HA	1:h:63:ARG:HD3	1.80	0.43
1:h:265:SER:OG	1:h:266:GLY:N	2.49	0.43
1:h:371:GLN:OE1	1:h:371:GLN:N	2.51	0.43
1:j:414:GLN:HG2	1:j:427:PHE:HD1	1.83	0.43
1:k:265:SER:OG	1:k:266:GLY:N	2.49	0.43
1:o:430:GLN:NE2	1:p:223:ILE:HG21	2.34	0.43
1:p:380:ASP:OD1	1:p:381:TYR:N	2.46	0.43
1:r:157[B]:GLN:HG2	1:x:164:THR:HG21	2.01	0.43
1:t:223:ILE:HD13	1:v:430:GLN:HE22	1.82	0.43
1:2:380:ASP:OD1	1:2:381:TYR:N	2.46	0.43
1:2:414:GLN:HG2	1:2:427:PHE:HD1	1.83	0.43
1:3:414:GLN:HG2	1:3:427:PHE:HD1	1.83	0.43
1:8:371:GLN:N	1:8:371:GLN:OE1	2.51	0.43
1:A:223:ILE:HG21	1:I:430:GLN:NE2	2.33	0.43
1:A:340:ARG:HH12	1:I:431:ASP:HB2	1.84	0.43
1:A:430:GLN:NE2	1:G:223:ILE:HG21	2.34	0.43
1:A:533:ASN:HD21	1:F:537:ARG:NH2	2.17	0.43
1:D:188:VAL:CG2	1:P:289:SER:HA	2.49	0.43
1:F:223:ILE:HG21	1:Q:430:GLN:NE2	2.33	0.43
1:H:69:MET:HG2	1:H:70:SER:N	2.33	0.43
1:H:234:VAL:HG13	1:Y:363:THR:HG22	2.00	0.43
1:H:289:SER:HA	1:W:188:VAL:CG2	2.49	0.43
1:H:363:THR:HG22	1:W:234:VAL:HG13	2.00	0.43
1:I:225:GLY:HA3	1:I:230:GLN:HB2	2.00	0.43
1:K:223:ILE:HD13	1:8:430:GLN:HE22	1.82	0.43
1:O:430:GLN:NE2	1:m:223:ILE:HG21	2.34	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Q:225:GLY:HA3	1:Q:230:GLN:HB2	2.00	0.43
1:R:363:THR:HG22	1:S:234:VAL:HG13	2.00	0.43
1:R:414:GLN:HG2	1:R:427:PHE:HD1	1.83	0.43
1:T:340:ARG:HH12	1:I:431:ASP:HB2	1.84	0.43
1:V:234:VAL:HG13	1:X:363:THR:HG22	2.00	0.43
1:V:291:HIS:HE1	1:V:309:ILE:HD13	1.82	0.43
1:W:430:GLN:NE2	1:Y:223:ILE:HG21	2.33	0.43
1:X:188:VAL:CG2	1:e:289:SER:HA	2.49	0.43
1:Z:430:GLN:NE2	1:4:223:ILE:HG21	2.34	0.43
1:f:414:GLN:HG2	1:f:427:PHE:HD1	1.83	0.43
1:g:223:ILE:HG21	1:h:430:GLN:NE2	2.34	0.43
1:h:139:LEU:HD11	1:h:454:ILE:HG22	2.01	0.43
1:j:380:ASP:OD1	1:j:381:TYR:N	2.46	0.43
1:j:431:ASP:HB2	1:k:340:ARG:HH12	1.84	0.43
1:m:363:THR:HG22	1:n:234:VAL:HG13	2.00	0.43
1:n:414:GLN:HG2	1:n:427:PHE:HD1	1.83	0.43
1:r:289:SER:HA	1:s:188:VAL:CG2	2.49	0.43
1:r:430:GLN:NE2	1:s:223:ILE:HG21	2.34	0.43
1:t:431:ASP:HB2	1:u:340:ARG:HH12	1.84	0.43
1:w:431:ASP:HB2	1:x:340:ARG:HH12	1.84	0.43
1:2:69:MET:HG2	1:2:70:SER:N	2.33	0.43
1:3:234:VAL:HG13	1:4:363:THR:HG22	2.00	0.43
1:5:363:THR:HG22	1:6:234:VAL:HG13	2.00	0.43
1:5:380:ASP:OD1	1:5:381:TYR:N	2.46	0.43
1:5:414:GLN:HG2	1:5:427:PHE:HD1	1.83	0.43
1:5:431:ASP:HB2	1:6:340:ARG:HH12	1.84	0.43
1:B:340:ARG:HH12	1:L:431:ASP:HB2	1.83	0.43
1:C:234:VAL:HG13	1:M:363:THR:HG22	2.00	0.43
1:D:430:GLN:NE2	1:N:223:ILE:HG21	2.33	0.43
1:E:223:ILE:HG21	1:F:430:GLN:NE2	2.34	0.43
1:F:139:LEU:HD11	1:F:454:ILE:HG22	2.01	0.43
1:I:414:GLN:HG2	1:I:427:PHE:HD1	1.83	0.43
1:J:283:SER:O	1:J:287:THR:OG1	2.35	0.43
1:J:487:LEU:HD21	1:J:507:THR:HG22	2.01	0.43
1:K:279:TYR:OH	1:a:242:ASP:OD2	2.32	0.43
1:K:340:ARG:HH12	1:8:431:ASP:HB2	1.84	0.43
1:L:319:ASP:HB3	1:L:320:PRO:HD3	2.01	0.43
1:Q:414:GLN:HG2	1:Q:427:PHE:HD1	1.83	0.43
1:T:164:THR:HG21	1:U:157[B]:GLN:HG2	2.01	0.43
1:U:414:GLN:HG2	1:U:427:PHE:HD1	1.83	0.43
1:a:363:THR:HG22	1:8:234:VAL:HG13	2.00	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:a:371:GLN:OE1	1:a:371:GLN:N	2.51	0.43
1:e:319:ASP:HB3	1:e:320:PRO:HD3	2.01	0.43
1:g:319:ASP:HB3	1:g:320:PRO:HD3	2.01	0.43
1:h:537:ARG:NH2	1:k:533:ASN:HD21	2.16	0.43
1:j:291:HIS:HE1	1:j:309:ILE:HD13	1.82	0.43
1:l:487:LEU:HD21	1:l:507:THR:HG22	2.01	0.43
1:m:311:GLY:HA3	1:n:193:TYR:HA	1.99	0.43
1:o:139:LEU:HD11	1:o:454:ILE:HG22	2.01	0.43
1:o:537:ARG:NH2	1:6:533:ASN:HD21	2.16	0.43
1:q:289:SER:HA	1:r:188:VAL:CG2	2.49	0.43
1:q:379:PHE:HA	1:s:310:ASN:HB2	2.01	0.43
1:q:430:GLN:NE2	1:r:223:ILE:HG21	2.34	0.43
1:r:69:MET:HG2	1:r:70:SER:N	2.33	0.43
1:t:289:SER:HA	1:u:188:VAL:CG2	2.49	0.43
1:u:380:ASP:OD1	1:u:381:TYR:N	2.46	0.43
1:u:487:LEU:HD21	1:u:507:THR:HG22	2.01	0.43
1:w:223:ILE:HD13	1:y:430:GLN:HE22	1.82	0.43
1:z:223:ILE:HG21	1:2:430:GLN:NE2	2.34	0.43
1:1:289:SER:HA	1:2:188:VAL:CG2	2.49	0.43
1:2:283:SER:O	1:2:287:THR:OG1	2.35	0.43
1:2:537:ARG:NH2	1:4:533:ASN:HD21	2.16	0.43
1:8:487:LEU:HD21	1:8:507:THR:HG22	2.01	0.43
1:A:537:ARG:NH2	1:F:533:ASN:HD21	2.17	0.43
1:B:414:GLN:HG2	1:B:427:PHE:HD1	1.83	0.43
1:C:283:SER:O	1:C:287:THR:OG1	2.35	0.43
1:C:319:ASP:HB3	1:C:320:PRO:HD3	2.01	0.43
1:G:487:LEU:HD21	1:G:507:THR:HG22	2.01	0.43
1:H:242:ASP:OD2	1:Y:279:TYR:OH	2.31	0.43
1:K:139:LEU:HD11	1:K:454:ILE:HG22	2.01	0.43
1:K:164:THR:HG21	1:L:157[B]:GLN:HG2	2.01	0.43
1:K:223:ILE:HG21	1:8:430:GLN:NE2	2.34	0.43
1:K:431:ASP:HB2	1:a:340:ARG:HH12	1.84	0.43
1:L:414:GLN:HG2	1:L:427:PHE:HD1	1.83	0.43
1:O:139:LEU:HD11	1:O:454:ILE:HG22	2.01	0.43
1:P:69:MET:HG2	1:P:70:SER:N	2.33	0.43
1:R:279:TYR:OH	1:S:242:ASP:OD2	2.31	0.43
1:S:487:LEU:HD21	1:S:507:THR:HG22	2.01	0.43
1:T:139:LEU:HD11	1:T:454:ILE:HG22	2.01	0.43
1:T:223:ILE:HD13	1:l:430:GLN:HE22	1.82	0.43
1:T:223:ILE:HG21	1:l:430:GLN:NE2	2.34	0.43
1:U:319:ASP:HB3	1:U:320:PRO:HD3	2.01	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:W:487:LEU:HD21	1:W:507:THR:HG22	2.01	0.43
1:Z:139:LEU:HD11	1:Z:454:ILE:HG22	2.01	0.43
1:a:280:HIS:HB3	1:a:568:THR:OG1	2.19	0.43
1:b:280:HIS:HB3	1:b:568:THR:OG1	2.19	0.43
1:b:319:ASP:HB3	1:b:320:PRO:HD3	2.01	0.43
1:d:280:HIS:HB3	1:d:568:THR:OG1	2.19	0.43
1:d:363:THR:HG22	1:l:234:VAL:HG13	2.00	0.43
1:e:280:HIS:HB3	1:e:568:THR:OG1	2.19	0.43
1:h:225:GLY:HA3	1:h:230:GLN:HB2	2.00	0.43
1:l:319:ASP:HB3	1:l:320:PRO:HD3	2.01	0.43
1:o:225:GLY:HA3	1:o:230:GLN:HB2	2.00	0.43
1:p:319:ASP:HB3	1:p:320:PRO:HD3	2.01	0.43
1:q:139:LEU:HD11	1:q:454:ILE:HG22	2.01	0.43
1:q:188:VAL:CG2	1:s:289:SER:HA	2.49	0.43
1:q:223:ILE:HG21	1:s:430:GLN:NE2	2.34	0.43
1:q:371:GLN:N	1:q:371:GLN:OE1	2.51	0.43
1:q:431:ASP:HB2	1:r:340:ARG:HH12	1.84	0.43
1:r:139:LEU:HD11	1:r:454:ILE:HG22	2.01	0.43
1:t:223:ILE:HG21	1:v:430:GLN:NE2	2.34	0.43
1:u:279:TYR:OH	1:v:242:ASP:OD2	2.32	0.43
1:u:280:HIS:HB3	1:u:568:THR:OG1	2.19	0.43
1:u:289:SER:HA	1:v:188:VAL:CG2	2.49	0.43
1:u:537:ARG:NH2	1:l:533:ASN:HD21	2.16	0.43
1:w:225:GLY:HA3	1:w:230:GLN:HB2	2.00	0.43
1:w:289:SER:HA	1:x:188:VAL:CG2	2.49	0.43
1:x:380:ASP:OD1	1:x:381:TYR:N	2.46	0.43
1:z:139:LEU:HD11	1:z:454:ILE:HG22	2.01	0.43
1:z:289:SER:HA	1:l:188:VAL:CG2	2.49	0.43
1:1:139:LEU:HD11	1:1:454:ILE:HG22	2.01	0.43
1:2:42:TYR:CD2	1:3:254:ILE:HD12	2.53	0.43
1:5:291:HIS:HE1	1:5:309:ILE:HD13	1.82	0.43
1:5:319:ASP:HB3	1:5:320:PRO:HD3	2.01	0.43
1:6:265:SER:OG	1:6:266:GLY:N	2.49	0.43
1:6:431:ASP:HB2	1:7:340:ARG:HH12	1.84	0.43
1:A:139:LEU:HD11	1:A:454:ILE:HG22	2.01	0.42
1:A:319:ASP:HB3	1:A:320:PRO:HD3	2.01	0.42
1:B:188:VAL:CG2	1:L:289:SER:HA	2.49	0.42
1:B:380:ASP:OD1	1:B:381:TYR:N	2.46	0.42
1:C:139:LEU:HD11	1:C:454:ILE:HG22	2.01	0.42
1:C:254:ILE:HD12	1:D:42:TYR:CD2	2.54	0.42
1:D:487:LEU:HD21	1:D:507:THR:HG22	2.01	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:140:GLU:HG3	1:E:520:LYS:CG	2.49	0.42
1:E:319:ASP:HB3	1:E:320:PRO:HD3	2.01	0.42
1:E:340:ARG:HH12	1:F:431:ASP:HB2	1.84	0.42
1:E:487:LEU:HD21	1:E:507:THR:HG22	2.01	0.42
1:F:157[B]:GLN:HG2	1:R:164:THR:HG21	2.01	0.42
1:F:188:VAL:CG2	1:Q:289:SER:HA	2.49	0.42
1:F:319:ASP:HB3	1:F:320:PRO:HD3	2.01	0.42
1:F:340:ARG:HH12	1:Q:431:ASP:HB2	1.84	0.42
1:F:371:GLN:N	1:F:371:GLN:OE1	2.51	0.42
1:G:140:GLU:HG3	1:G:520:LYS:CG	2.49	0.42
1:G:319:ASP:HB3	1:G:320:PRO:HD3	2.01	0.42
1:H:39:THR:HG21	1:H:262:SER:CB	2.49	0.42
1:H:157[B]:GLN:HG2	1:Z:164:THR:HG21	2.02	0.42
1:H:310:ASN:HB2	1:W:379:PHE:HA	2.01	0.42
1:J:42:TYR:CD2	1:a:254:ILE:HD12	2.54	0.42
1:J:319:ASP:HB3	1:J:320:PRO:HD3	2.01	0.42
1:J:371:GLN:OE1	1:J:371:GLN:N	2.51	0.42
1:K:188:VAL:CG2	1:8:289:SER:HA	2.49	0.42
1:M:234:VAL:HG13	1:b:363:THR:HG22	2.00	0.42
1:M:487:LEU:HD21	1:M:507:THR:HG22	2.01	0.42
1:N:545:LYS:C	1:N:547:LEU:H	2.27	0.42
1:O:340:ARG:HH12	1:n:431:ASP:HB2	1.84	0.42
1:P:39:THR:HG21	1:P:262:SER:CB	2.49	0.42
1:R:188:VAL:CG2	1:U:289:SER:HA	2.49	0.42
1:R:291:HIS:HE1	1:R:309:ILE:HD13	1.82	0.42
1:R:380:ASP:OD1	1:R:381:TYR:N	2.46	0.42
1:S:319:ASP:HB3	1:S:320:PRO:HD3	2.01	0.42
1:T:487:LEU:HD21	1:T:507:THR:HG22	2.01	0.42
1:V:139:LEU:HD11	1:V:454:ILE:HG22	2.01	0.42
1:V:254:ILE:HD12	1:W:42:TYR:CD2	2.54	0.42
1:V:283:SER:O	1:V:287:THR:OG1	2.35	0.42
1:V:319:ASP:HB3	1:V:320:PRO:HD3	2.01	0.42
1:V:379:PHE:HA	1:X:310:ASN:HB2	2.01	0.42
1:W:435:THR:O	1:W:435:THR:HG22	2.19	0.42
1:X:234:VAL:HG13	1:e:363:THR:HG22	2.00	0.42
1:X:319:ASP:HB3	1:X:320:PRO:HD3	2.01	0.42
1:X:487:LEU:HD21	1:X:507:THR:HG22	2.01	0.42
1:Y:42:TYR:CD2	1:4:254:ILE:HD12	2.54	0.42
1:Y:225:GLY:HA3	1:Y:230:GLN:HB2	2.00	0.42
1:a:139:LEU:HD11	1:a:454:ILE:HG22	2.01	0.42
1:a:289:SER:HA	1:8:188:VAL:CG2	2.49	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:c:310:ASN:HB2	1:o:379:PHE:HA	2.01	0.42
1:d:139:LEU:HD11	1:d:454:ILE:HG22	2.01	0.42
1:d:225:GLY:HA3	1:d:230:GLN:HB2	2.00	0.42
1:f:63:ARG:HD3	1:f:63:ARG:HA	1.80	0.42
1:g:371:GLN:OE1	1:g:371:GLN:N	2.51	0.42
1:i:340:ARG:HH12	1:k:431:ASP:HB2	1.84	0.42
1:j:319:ASP:HB3	1:j:320:PRO:HD3	2.01	0.42
1:j:533:ASN:HD21	1:w:537:ARG:NH2	2.16	0.42
1:m:319:ASP:HB3	1:m:320:PRO:HD3	2.01	0.42
1:n:283:SER:O	1:n:287:THR:OG1	2.35	0.42
1:r:283:SER:O	1:r:287:THR:OG1	2.35	0.42
1:r:310:ASN:HB2	1:s:379:PHE:HA	2.01	0.42
1:r:380:ASP:OD1	1:r:381:TYR:N	2.46	0.42
1:t:225:GLY:HA3	1:t:230:GLN:HB2	2.00	0.42
1:t:414:GLN:HG2	1:t:427:PHE:HD1	1.83	0.42
1:u:42:TYR:CD2	1:2:254:ILE:HD12	2.54	0.42
1:w:223:ILE:HG21	1:y:430:GLN:NE2	2.34	0.42
1:x:139:LEU:HD11	1:x:454:ILE:HG22	2.01	0.42
1:x:280:HIS:HB3	1:x:568:THR:OG1	2.19	0.42
1:x:289:SER:HA	1:y:188:VAL:CG2	2.49	0.42
1:x:487:LEU:HD21	1:x:507:THR:HG22	2.01	0.42
1:y:139:LEU:HD11	1:y:454:ILE:HG22	2.01	0.42
1:y:545:LYS:C	1:y:547:LEU:H	2.27	0.42
1:z:223:ILE:HD13	1:2:430:GLN:HE22	1.84	0.42
1:z:225:GLY:HA3	1:z:230:GLN:HB2	2.00	0.42
1:z:310:ASN:HB2	1:1:379:PHE:HA	2.01	0.42
1:1:371:GLN:OE1	1:1:371:GLN:N	2.51	0.42
1:1:545:LYS:C	1:1:547:LEU:H	2.27	0.42
1:3:283:SER:O	1:3:287:THR:OG1	2.35	0.42
1:4:291:HIS:HE1	1:4:309:ILE:HD13	1.82	0.42
1:4:319:ASP:HB3	1:4:320:PRO:HD3	2.01	0.42
1:A:371:GLN:OE1	1:A:371:GLN:N	2.51	0.42
1:C:379:PHE:HA	1:M:310:ASN:HB2	2.01	0.42
1:D:319:ASP:HB3	1:D:320:PRO:HD3	2.01	0.42
1:D:379:PHE:HA	1:P:310:ASN:HB2	2.01	0.42
1:D:435:THR:O	1:D:435:THR:HG22	2.20	0.42
1:H:192:MET:HE1	1:H:470:HIS:CG	2.54	0.42
1:K:487:LEU:HD21	1:K:507:THR:HG22	2.01	0.42
1:L:39:THR:HG21	1:L:262:SER:CB	2.50	0.42
1:L:140:GLU:HG3	1:L:520:LYS:CG	2.49	0.42
1:N:42:TYR:CD2	1:m:254:ILE:HD12	2.54	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:225:GLY:HA3	1:N:230:GLN:HB2	2.00	0.42
1:N:279:TYR:OH	1:P:242:ASP:OD2	2.31	0.42
1:O:39:THR:HG21	1:O:262:SER:CB	2.49	0.42
1:O:164:THR:HG21	1:P:157[B]:GLN:HG2	2.02	0.42
1:O:188:VAL:CG2	1:n:289:SER:HA	2.49	0.42
1:R:340:ARG:HH12	1:U:431:ASP:HB2	1.84	0.42
1:S:42:TYR:CD2	1:d:254:ILE:HD12	2.55	0.42
1:S:283:SER:O	1:S:287:THR:OG1	2.35	0.42
1:S:371:GLN:OE1	1:S:371:GLN:N	2.51	0.42
1:T:188:VAL:CG2	1:l:289:SER:HA	2.49	0.42
1:T:279:TYR:OH	1:d:242:ASP:OD2	2.32	0.42
1:T:431:ASP:HB2	1:d:340:ARG:HH12	1.84	0.42
1:U:39:THR:HG21	1:U:262:SER:CB	2.49	0.42
1:U:140:GLU:HG3	1:U:520:LYS:CG	2.49	0.42
1:U:280:HIS:HB3	1:U:568:THR:OG1	2.19	0.42
1:V:223:ILE:HG21	1:X:430:GLN:NE2	2.34	0.42
1:V:371:GLN:N	1:V:371:GLN:OE1	2.51	0.42
1:V:435:THR:O	1:V:435:THR:HG22	2.19	0.42
1:Y:545:LYS:C	1:Y:547:LEU:H	2.28	0.42
1:Z:188:VAL:CG2	1:3:289:SER:HA	2.49	0.42
1:Z:340:ARG:HH12	1:3:431:ASP:HB2	1.84	0.42
1:Z:487:LEU:HD21	1:Z:507:THR:HG22	2.01	0.42
1:a:225:GLY:HA3	1:a:230:GLN:HB2	2.00	0.42
1:b:487:LEU:HD21	1:b:507:THR:HG22	2.01	0.42
1:c:283:SER:O	1:c:287:THR:OG1	2.35	0.42
1:d:283:SER:O	1:d:287:THR:OG1	2.35	0.42
1:d:289:SER:HA	1:l:188:VAL:CG2	2.49	0.42
1:e:487:LEU:HD21	1:e:507:THR:HG22	2.01	0.42
1:f:310:ASN:HB2	1:h:379:PHE:HA	2.01	0.42
1:g:39:THR:HG21	1:g:262:SER:CB	2.50	0.42
1:g:192:MET:HE1	1:g:470:HIS:CG	2.55	0.42
1:g:254:ILE:HD12	1:k:42:TYR:CD2	2.54	0.42
1:i:188:VAL:CG2	1:k:289:SER:HA	2.49	0.42
1:j:140:GLU:HG3	1:j:520:LYS:CG	2.49	0.42
1:k:545:LYS:C	1:k:547:LEU:H	2.28	0.42
1:m:310:ASN:HB2	1:n:379:PHE:HA	2.01	0.42
1:p:39:THR:HG21	1:p:262:SER:CB	2.50	0.42
1:p:533:ASN:HD21	1:s:537:ARG:NH2	2.17	0.42
1:q:545:LYS:C	1:q:547:LEU:H	2.28	0.42
1:r:280:HIS:HB3	1:r:568:THR:OG1	2.19	0.42
1:s:225:GLY:HA3	1:s:230:GLN:HB2	2.00	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:t:537:ARG:NH2	1:5:533:ASN:HD21	2.16	0.42
1:u:139:LEU:HD11	1:u:454:ILE:HG22	2.01	0.42
1:u:283:SER:O	1:u:287:THR:OG1	2.35	0.42
1:v:139:LEU:HD11	1:v:454:ILE:HG22	2.01	0.42
1:v:545:LYS:C	1:v:547:LEU:H	2.28	0.42
1:w:545:LYS:C	1:w:547:LEU:H	2.28	0.42
1:x:310:ASN:HB2	1:y:379:PHE:HA	2.01	0.42
1:z:157[B]:GLN:HG2	1:4:164:THR:HG21	2.01	0.42
1:z:319:ASP:HB3	1:z:320:PRO:HD3	2.01	0.42
1:z:435:THR:O	1:z:435:THR:HG22	2.19	0.42
1:1:225:GLY:HA3	1:1:230:GLN:HB2	2.00	0.42
1:1:380:ASP:OD1	1:1:381:TYR:N	2.46	0.42
1:2:139:LEU:HD11	1:2:454:ILE:HG22	2.01	0.42
1:3:193:TYR:HA	1:4:311:GLY:HA3	1.99	0.42
1:3:379:PHE:HA	1:4:310:ASN:HB2	2.01	0.42
1:5:139:LEU:HD11	1:5:454:ILE:HG22	2.01	0.42
1:5:140:GLU:HG3	1:5:520:LYS:CG	2.49	0.42
1:6:280:HIS:HB3	1:6:568:THR:OG1	2.19	0.42
1:6:289:SER:HA	1:7:188:VAL:CG2	2.49	0.42
1:6:545:LYS:C	1:6:547:LEU:H	2.28	0.42
1:8:69:MET:HG2	1:8:70:SER:N	2.33	0.42
1:8:319:ASP:HB3	1:8:320:PRO:HD3	2.01	0.42
1:A:157[B]:GLN:HG2	1:B:164:THR:HG21	2.02	0.42
1:B:279:TYR:OH	1:J:242:ASP:OD2	2.31	0.42
1:B:283:SER:O	1:B:287:THR:OG1	2.35	0.42
1:C:223:ILE:HG21	1:M:430:GLN:NE2	2.34	0.42
1:C:371:GLN:OE1	1:C:371:GLN:N	2.51	0.42
1:C:435:THR:HG22	1:C:435:THR:O	2.19	0.42
1:D:289:SER:HA	1:N:188:VAL:CG2	2.49	0.42
1:F:435:THR:O	1:F:435:THR:HG22	2.19	0.42
1:H:371:GLN:OE1	1:H:371:GLN:N	2.51	0.42
1:J:39:THR:HG21	1:J:262:SER:CB	2.50	0.42
1:J:131:THR:HA	1:J:277:LEU:HD23	2.02	0.42
1:J:363:THR:HG22	1:L:234:VAL:HG13	2.00	0.42
1:J:430:GLN:NE2	1:L:223:ILE:HG21	2.34	0.42
1:K:435:THR:HG22	1:K:435:THR:O	2.20	0.42
1:L:280:HIS:HB3	1:L:568:THR:OG1	2.19	0.42
1:M:157[B]:GLN:HG2	1:c:164:THR:HG21	2.01	0.42
1:M:319:ASP:HB3	1:M:320:PRO:HD3	2.01	0.42
1:O:487:LEU:HD21	1:O:507:THR:HG22	2.01	0.42
1:P:192:MET:HE1	1:P:470:HIS:CG	2.55	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:R:139:LEU:HD11	1:R:454:ILE:HG22	2.01	0.42
1:R:283:SER:O	1:R:287:THR:OG1	2.35	0.42
1:R:289:SER:HA	1:S:188:VAL:CG2	2.49	0.42
1:S:39:THR:HG21	1:S:262:SER:CB	2.49	0.42
1:S:131:THR:HA	1:S:277:LEU:HD23	2.02	0.42
1:S:435:THR:HG22	1:S:435:THR:O	2.19	0.42
1:T:69:MET:HG2	1:T:70:SER:N	2.33	0.42
1:T:435:THR:O	1:T:435:THR:HG22	2.19	0.42
1:U:42:TYR:CD2	1:e:254:ILE:HD12	2.54	0.42
1:U:537:ARG:NH2	1:V:533:ASN:HD21	2.17	0.42
1:W:319:ASP:HB3	1:W:320:PRO:HD3	2.01	0.42
1:b:39:THR:HG21	1:b:262:SER:CB	2.50	0.42
1:b:192:MET:HE1	1:b:470:HIS:CG	2.55	0.42
1:e:39:THR:HG21	1:e:262:SER:CB	2.49	0.42
1:e:192:MET:HE1	1:e:470:HIS:CG	2.55	0.42
1:f:254:ILE:HD12	1:z:42:TYR:CD2	2.54	0.42
1:f:283:SER:O	1:f:287:THR:OG1	2.35	0.42
1:f:289:SER:HA	1:h:188:VAL:CG2	2.49	0.42
1:g:140:GLU:HG3	1:g:520:LYS:CG	2.49	0.42
1:h:545:LYS:C	1:h:547:LEU:H	2.28	0.42
1:i:487:LEU:HD21	1:i:507:THR:HG22	2.01	0.42
1:k:39:THR:HG21	1:k:262:SER:CB	2.49	0.42
1:l:69:MET:HG2	1:l:70:SER:N	2.33	0.42
1:l:192:MET:HE1	1:l:470:HIS:CG	2.55	0.42
1:m:164:THR:HG21	1:s:157[B]:GLN:HG2	2.01	0.42
1:m:291:HIS:HE1	1:m:309:ILE:HD13	1.82	0.42
1:m:533:ASN:HD21	1:r:537:ARG:NH2	2.17	0.42
1:m:537:ARG:NH2	1:r:533:ASN:HD21	2.16	0.42
1:n:140:GLU:HG3	1:n:520:LYS:CG	2.49	0.42
1:p:139:LEU:HD11	1:p:454:ILE:HG22	2.01	0.42
1:p:140:GLU:HG3	1:p:520:LYS:CG	2.49	0.42
1:p:192:MET:HE1	1:p:470:HIS:CG	2.55	0.42
1:p:254:ILE:HD12	1:6:42:TYR:CD2	2.54	0.42
1:q:164:THR:HG21	1:y:157[B]:GLN:HG2	2.01	0.42
1:q:192:MET:HE1	1:q:470:HIS:CG	2.55	0.42
1:q:363:THR:HG22	1:r:234:VAL:HG13	2.00	0.42
1:q:487:LEU:HD21	1:q:507:THR:HG22	2.01	0.42
1:r:431:ASP:HB2	1:s:340:ARG:HH12	1.84	0.42
1:s:139:LEU:HD11	1:s:454:ILE:HG22	2.01	0.42
1:s:192:MET:HE1	1:s:470:HIS:CG	2.55	0.42
1:s:319:ASP:HB3	1:s:320:PRO:HD3	2.01	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:s:435:THR:HG22	1:s:435:THR:O	2.19	0.42
1:t:39:THR:HG21	1:t:262:SER:CB	2.49	0.42
1:t:430:GLN:NE2	1:u:223:ILE:HG21	2.34	0.42
1:u:430:GLN:NE2	1:v:223:ILE:HG21	2.33	0.42
1:w:414:GLN:HG2	1:w:427:PHE:HD1	1.83	0.42
1:z:192:MET:HE1	1:z:470:HIS:CG	2.55	0.42
1:z:487:LEU:HD21	1:z:507:THR:HG22	2.01	0.42
1:1:192:MET:HE1	1:1:470:HIS:CG	2.55	0.42
1:1:487:LEU:HD21	1:1:507:THR:HG22	2.01	0.42
1:2:435:THR:HG22	1:2:435:THR:O	2.19	0.42
1:3:140:GLU:HG3	1:3:520:LYS:CG	2.49	0.42
1:5:157[B]:GLN:HG2	1:8:164:THR:HG21	2.02	0.42
1:7:192:MET:HE1	1:7:470:HIS:CG	2.55	0.42
1:8:192:MET:HE1	1:8:470:HIS:CG	2.55	0.42
1:A:192:MET:HE1	1:A:470:HIS:CG	2.55	0.42
1:A:379:PHE:HA	1:I:310:ASN:HB2	2.01	0.42
1:A:431:ASP:HB2	1:G:340:ARG:HH12	1.84	0.42
1:B:157[B]:GLN:HG2	1:C:164:THR:HG21	2.01	0.42
1:B:223:ILE:HG21	1:L:430:GLN:NE2	2.34	0.42
1:B:289:SER:HA	1:J:188:VAL:CG2	2.49	0.42
1:B:291:HIS:HE1	1:B:309:ILE:HD13	1.82	0.42
1:C:131:THR:HA	1:C:277:LEU:HD23	2.02	0.42
1:C:533:ASN:HD21	1:L:537:ARG:NH2	2.17	0.42
1:E:279:TYR:OH	1:Q:242:ASP:OD2	2.32	0.42
1:E:391:ARG:HA	1:E:391:ARG:HD3	1.88	0.42
1:F:280:HIS:HB3	1:F:568:THR:OG1	2.19	0.42
1:G:39:THR:HG21	1:G:262:SER:CB	2.49	0.42
1:G:279:TYR:OH	1:I:242:ASP:OD2	2.32	0.42
1:G:289:SER:HA	1:I:188:VAL:CG2	2.49	0.42
1:G:435:THR:O	1:G:435:THR:HG22	2.20	0.42
1:H:487:LEU:HD21	1:H:507:THR:HG22	2.01	0.42
1:I:39:THR:HG21	1:I:262:SER:CB	2.50	0.42
1:I:291:HIS:HE1	1:I:309:ILE:HD13	1.82	0.42
1:J:435:THR:O	1:J:435:THR:HG22	2.19	0.42
1:K:39:THR:HG21	1:K:262:SER:CB	2.50	0.42
1:K:69:MET:HG2	1:K:70:SER:N	2.33	0.42
1:K:430:GLN:NE2	1:a:223:ILE:HG21	2.34	0.42
1:L:42:TYR:CD2	1:b:254:ILE:HD12	2.54	0.42
1:N:139:LEU:HD11	1:N:454:ILE:HG22	2.01	0.42
1:N:435:THR:O	1:N:435:THR:HG22	2.19	0.42
1:O:280:HIS:HB3	1:O:568:THR:OG1	2.19	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:P:164:THR:HG21	1:Q:157[B]:GLN:HG2	2.02	0.42
1:P:371:GLN:OE1	1:P:371:GLN:N	2.51	0.42
1:Q:39:THR:HG21	1:Q:262:SER:CB	2.50	0.42
1:Q:435:THR:O	1:Q:435:THR:HG22	2.19	0.42
1:Q:533:ASN:HD21	1:R:537:ARG:NH2	2.17	0.42
1:R:157[B]:GLN:HG2	1:V:164:THR:HG21	2.01	0.42
1:S:192:MET:HE1	1:S:470:HIS:CG	2.55	0.42
1:S:363:THR:HG22	1:U:234:VAL:HG13	2.00	0.42
1:T:39:THR:HG21	1:T:262:SER:CB	2.50	0.42
1:V:131:THR:HA	1:V:277:LEU:HD23	2.02	0.42
1:W:289:SER:HA	1:Y:188:VAL:CG2	2.49	0.42
1:X:39:THR:HG21	1:X:262:SER:CB	2.49	0.42
1:X:157[B]:GLN:HG2	1:f:164:THR:HG21	2.01	0.42
1:Y:283:SER:O	1:Y:287:THR:OG1	2.35	0.42
1:Z:131:THR:HA	1:Z:277:LEU:HD23	2.02	0.42
1:Z:223:ILE:HG21	1:3:430:GLN:NE2	2.34	0.42
1:a:283:SER:O	1:a:287:THR:OG1	2.35	0.42
1:a:430:GLN:NE2	1:8:223:ILE:HG21	2.34	0.42
1:b:131:THR:HA	1:b:277:LEU:HD23	2.02	0.42
1:c:289:SER:HA	1:o:188:VAL:CG2	2.49	0.42
1:f:430:GLN:NE2	1:h:223:ILE:HG21	2.34	0.42
1:g:139:LEU:HD11	1:g:454:ILE:HG22	2.01	0.42
1:h:533:ASN:HD21	1:k:537:ARG:NH2	2.16	0.42
1:i:192:MET:HE1	1:i:470:HIS:CG	2.55	0.42
1:i:291:HIS:HE1	1:i:309:ILE:HD13	1.82	0.42
1:j:139:LEU:HD11	1:j:454:ILE:HG22	2.01	0.42
1:j:157[B]:GLN:HG2	1:l:164:THR:HG21	2.02	0.42
1:k:254:ILE:HD12	1:w:42:TYR:CD2	2.55	0.42
1:l:545:LYS:C	1:l:547:LEU:H	2.28	0.42
1:m:430:GLN:NE2	1:n:223:ILE:HG21	2.34	0.42
1:o:280:HIS:HB3	1:o:568:THR:OG1	2.19	0.42
1:o:533:ASN:HD21	1:6:537:ARG:NH2	2.16	0.42
1:o:545:LYS:C	1:o:547:LEU:H	2.27	0.42
1:p:291:HIS:HE1	1:p:309:ILE:HD13	1.82	0.42
1:q:225:GLY:HA3	1:q:230:GLN:HB2	2.00	0.42
1:r:435:THR:O	1:r:435:THR:HG22	2.19	0.42
1:s:280:HIS:HB3	1:s:568:THR:OG1	2.19	0.42
1:s:487:LEU:HD21	1:s:507:THR:HG22	2.01	0.42
1:t:545:LYS:C	1:t:547:LEU:H	2.28	0.42
1:u:39:THR:HG21	1:u:262:SER:CB	2.49	0.42
1:v:533:ASN:HD21	1:y:537:ARG:NH2	2.17	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:w:39:THR:HG21	1:w:262:SER:CB	2.50	0.42
1:w:430:GLN:NE2	1:x:223:ILE:HG21	2.34	0.42
1:x:39:THR:HG21	1:x:262:SER:CB	2.49	0.42
1:z:280:HIS:HB3	1:z:568:THR:OG1	2.19	0.42
1:2:280:HIS:HB3	1:2:568:THR:OG1	2.19	0.42
1:3:223:ILE:HG21	1:4:430:GLN:NE2	2.34	0.42
1:6:39:THR:HG21	1:6:262:SER:CB	2.49	0.42
1:7:139:LEU:HD11	1:7:454:ILE:HG22	2.01	0.42
1:7:487:LEU:HD21	1:7:507:THR:HG22	2.01	0.42
1:A:280:HIS:HB3	1:A:568:THR:OG1	2.19	0.42
1:A:435:THR:O	1:A:435:THR:HG22	2.20	0.42
1:B:139:LEU:HD11	1:B:454:ILE:HG22	2.01	0.42
1:B:537:ARG:NH2	1:I:533:ASN:HD21	2.17	0.42
1:C:188:VAL:CG2	1:M:289:SER:HA	2.49	0.42
1:C:289:SER:HA	1:b:188:VAL:CG2	2.49	0.42
1:E:39:THR:HG21	1:E:262:SER:CB	2.49	0.42
1:E:291:HIS:HE1	1:E:309:ILE:HD13	1.82	0.42
1:E:435:THR:HG22	1:E:435:THR:O	2.20	0.42
1:F:192:MET:HE1	1:F:470:HIS:CG	2.55	0.42
1:H:164:THR:HG21	1:I:157[B]:GLN:HG2	2.02	0.42
1:I:192:MET:HE1	1:I:470:HIS:CG	2.55	0.42
1:I:435:THR:O	1:I:435:THR:HG22	2.19	0.42
1:J:192:MET:HE1	1:J:470:HIS:CG	2.55	0.42
1:M:39:THR:HG21	1:M:262:SER:CB	2.49	0.42
1:M:131:THR:HA	1:M:277:LEU:HD23	2.02	0.42
1:N:192:MET:HE1	1:N:470:HIS:CG	2.55	0.42
1:O:131:THR:HA	1:O:277:LEU:HD23	2.02	0.42
1:O:223:ILE:HG21	1:n:430:GLN:NE2	2.34	0.42
1:O:431:ASP:HB2	1:m:340:ARG:HH12	1.84	0.42
1:S:430:GLN:NE2	1:U:223:ILE:HG21	2.34	0.42
1:S:431:ASP:HB2	1:U:340:ARG:HH12	1.84	0.42
1:T:289:SER:HA	1:d:188:VAL:CG2	2.49	0.42
1:T:430:GLN:NE2	1:d:223:ILE:HG21	2.34	0.42
1:U:386:ASP:OD1	1:U:387:ASP:N	2.48	0.42
1:U:545:LYS:C	1:U:547:LEU:H	2.28	0.42
1:V:289:SER:HA	1:e:188:VAL:CG2	2.49	0.42
1:W:386:ASP:OD1	1:W:387:ASP:N	2.48	0.42
1:Y:139:LEU:HD11	1:Y:454:ILE:HG22	2.01	0.42
1:Y:435:THR:O	1:Y:435:THR:HG22	2.19	0.42
1:Z:280:HIS:HB3	1:Z:568:THR:OG1	2.19	0.42
1:Z:431:ASP:HB2	1:4:340:ARG:HH12	1.84	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:a:140:GLU:HG3	1:a:520:LYS:CG	2.49	0.42
1:a:310:ASN:HB2	1:8:379:PHE:HA	2.00	0.42
1:c:139:LEU:HD11	1:c:454:ILE:HG22	2.01	0.42
1:c:431:ASP:HB2	1:o:340:ARG:HH12	1.84	0.42
1:d:310:ASN:HB2	1:l:379:PHE:HA	2.00	0.42
1:d:430:GLN:NE2	1:l:223:ILE:HG21	2.34	0.42
1:e:131:THR:HA	1:e:277:LEU:HD23	2.02	0.42
1:f:435:THR:HG22	1:f:435:THR:O	2.19	0.42
1:g:164:THR:HG21	1:1:157[B]:GLN:HG2	2.00	0.42
1:g:283:SER:O	1:g:287:THR:OG1	2.35	0.42
1:g:291:HIS:HE1	1:g:309:ILE:HD13	1.82	0.42
1:g:533:ASN:HD21	1:z:537:ARG:NH2	2.17	0.42
1:h:280:HIS:HB3	1:h:568:THR:OG1	2.19	0.42
1:i:139:LEU:HD11	1:i:454:ILE:HG22	2.01	0.42
1:j:254:ILE:HD12	1:l:42:TYR:CD2	2.54	0.42
1:j:371:GLN:OE1	1:j:371:GLN:N	2.51	0.42
1:k:280:HIS:HB3	1:k:568:THR:OG1	2.19	0.42
1:l:131:THR:HA	1:l:277:LEU:HD23	2.02	0.42
1:n:131:THR:HA	1:n:277:LEU:HD23	2.02	0.42
1:p:42:TYR:CD2	1:q:254:ILE:HD12	2.55	0.42
1:q:39:THR:HG21	1:q:262:SER:CB	2.50	0.42
1:q:380:ASP:OD1	1:q:381:TYR:N	2.46	0.42
1:r:545:LYS:C	1:r:547:LEU:H	2.27	0.42
1:t:131:THR:HA	1:t:277:LEU:HD23	2.02	0.42
1:t:487:LEU:HD21	1:t:507:THR:HG22	2.01	0.42
1:v:131:THR:HA	1:v:277:LEU:HD23	2.02	0.42
1:w:131:THR:HA	1:w:277:LEU:HD23	2.02	0.42
1:w:487:LEU:HD21	1:w:507:THR:HG22	2.01	0.42
1:x:63:ARG:HA	1:x:63:ARG:HD3	1.80	0.42
1:x:430:GLN:NE2	1:y:223:ILE:HG21	2.33	0.42
1:y:131:THR:HA	1:y:277:LEU:HD23	2.02	0.42
1:2:545:LYS:C	1:2:547:LEU:H	2.28	0.42
1:3:131:THR:HA	1:3:277:LEU:HD23	2.02	0.42
1:3:340:ARG:HH12	1:4:431:ASP:HB2	1.84	0.42
1:5:39:THR:HG21	1:5:262:SER:CB	2.50	0.42
1:A:39:THR:HG21	1:A:262:SER:CB	2.49	0.42
1:A:289:SER:HA	1:G:188:VAL:CG2	2.49	0.42
1:B:435:THR:O	1:B:435:THR:HG22	2.19	0.42
1:C:487:LEU:HD21	1:C:507:THR:HG22	2.01	0.42
1:D:140:GLU:HG3	1:D:520:LYS:CG	2.49	0.42
1:D:545:LYS:C	1:D:547:LEU:H	2.28	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:289:SER:HA	1:Q:188:VAL:CG2	2.49	0.42
1:E:310:ASN:HB2	1:Q:379:PHE:HA	2.01	0.42
1:F:39:THR:HG21	1:F:262:SER:CB	2.49	0.42
1:F:379:PHE:HA	1:Q:310:ASN:HB2	2.01	0.42
1:G:430:GLN:NE2	1:I:223:ILE:HG21	2.34	0.42
1:H:42:TYR:CD2	1:I:254:ILE:HD12	2.54	0.42
1:H:431:ASP:HB2	1:W:340:ARG:HH12	1.84	0.42
1:K:289:SER:HA	1:a:188:VAL:CG2	2.49	0.42
1:L:131:THR:HA	1:L:277:LEU:HD23	2.02	0.42
1:M:536:GLY:O	1:M:537:ARG:HB3	2.20	0.42
1:N:39:THR:HG21	1:N:262:SER:CB	2.49	0.42
1:Q:192:MET:HE1	1:Q:470:HIS:CG	2.55	0.42
1:Q:291:HIS:HE1	1:Q:309:ILE:HD13	1.82	0.42
1:R:223:ILE:HG21	1:U:430:GLN:NE2	2.34	0.42
1:V:188:VAL:CG2	1:X:289:SER:HA	2.49	0.42
1:V:487:LEU:HD21	1:V:507:THR:HG22	2.01	0.42
1:W:140:GLU:HG3	1:W:520:LYS:CG	2.49	0.42
1:W:192:MET:HE1	1:W:470:HIS:CG	2.55	0.42
1:W:545:LYS:C	1:W:547:LEU:H	2.28	0.42
1:X:131:THR:HA	1:X:277:LEU:HD23	2.02	0.42
1:X:435:THR:HG22	1:X:435:THR:O	2.20	0.42
1:X:536:GLY:O	1:X:537:ARG:HB3	2.20	0.42
1:Y:192:MET:HE1	1:Y:470:HIS:CG	2.55	0.42
1:b:164:THR:HG21	1:o:157[B]:GLN:HG2	2.01	0.42
1:c:131:THR:HA	1:c:277:LEU:HD23	2.02	0.42
1:c:319:ASP:HB3	1:c:320:PRO:HD3	2.01	0.42
1:c:430:GLN:NE2	1:o:223:ILE:HG21	2.34	0.42
1:c:435:THR:HG22	1:c:435:THR:O	2.19	0.42
1:d:140:GLU:HG3	1:d:520:LYS:CG	2.49	0.42
1:e:537:ARG:NH2	1:f:533:ASN:HD21	2.17	0.42
1:f:319:ASP:HB3	1:f:320:PRO:HD3	2.01	0.42
1:f:431:ASP:HB2	1:h:340:ARG:HH12	1.84	0.42
1:g:42:TYR:CD2	1:l:254:ILE:HD12	2.55	0.42
1:g:157[B]:GLN:HG2	1:k:164:THR:HG21	2.02	0.42
1:h:319:ASP:HB3	1:h:320:PRO:HD3	2.01	0.42
1:i:310:ASN:HB2	1:j:379:PHE:HA	2.01	0.42
1:i:431:ASP:HB2	1:j:340:ARG:HH12	1.84	0.42
1:j:39:THR:HG21	1:j:262:SER:CB	2.50	0.42
1:j:164:THR:HG21	1:x:157[B]:GLN:HG2	2.02	0.42
1:j:280:HIS:HB3	1:j:568:THR:OG1	2.19	0.42
1:j:536:GLY:O	1:j:537:ARG:HB3	2.20	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:k:192:MET:HE1	1:k:470:HIS:CG	2.55	0.42
1:m:431:ASP:HB2	1:n:340:ARG:HH12	1.84	0.42
1:m:545:LYS:C	1:m:547:LEU:H	2.27	0.42
1:q:42:TYR:CD2	1:y:254:ILE:HD12	2.54	0.42
1:s:545:LYS:C	1:s:547:LEU:H	2.28	0.42
1:t:42:TYR:CD2	1:6:254:ILE:HD12	2.55	0.42
1:t:139:LEU:HD11	1:t:454:ILE:HG22	2.01	0.42
1:t:188:VAL:CG2	1:v:289:SER:HA	2.49	0.42
1:t:192:MET:HE1	1:t:470:HIS:CG	2.55	0.42
1:t:536:GLY:O	1:t:537:ARG:HB3	2.20	0.42
1:u:131:THR:HA	1:u:277:LEU:HD23	2.02	0.42
1:u:310:ASN:HB2	1:v:379:PHE:HA	2.01	0.42
1:v:157[B]:GLN:HG2	1:1:164:THR:HG21	2.02	0.42
1:v:192:MET:HE1	1:v:470:HIS:CG	2.55	0.42
1:v:254:ILE:HD12	1:1:42:TYR:CD2	2.55	0.42
1:v:537:ARG:NH2	1:y:533:ASN:HD21	2.17	0.42
1:x:131:THR:HA	1:x:277:LEU:HD23	2.02	0.42
1:1:39:THR:HG21	1:1:262:SER:CB	2.50	0.42
1:2:39:THR:HG21	1:2:262:SER:CB	2.50	0.42
1:5:254:ILE:HD12	1:8:42:TYR:CD2	2.54	0.42
1:5:310:ASN:HB2	1:6:379:PHE:HA	2.01	0.42
1:5:379:PHE:HA	1:7:310:ASN:HB2	2.01	0.42
1:6:192:MET:HE1	1:6:470:HIS:CG	2.55	0.42
1:8:131:THR:HA	1:8:277:LEU:HD23	2.02	0.42
1:8:545:LYS:C	1:8:547:LEU:H	2.28	0.42
1:B:254:ILE:HD12	1:C:42:TYR:CD2	2.55	0.42
1:D:69:MET:HG2	1:D:70:SER:N	2.33	0.42
1:D:340:ARG:HH12	1:P:431:ASP:HB2	1.84	0.42
1:E:430:GLN:NE2	1:Q:223:ILE:HG21	2.34	0.42
1:E:533:ASN:HD21	1:P:537:ARG:NH2	2.16	0.42
1:F:254:ILE:HD12	1:R:42:TYR:CD2	2.54	0.42
1:G:139:LEU:HD11	1:G:454:ILE:HG22	2.01	0.42
1:G:291:HIS:HE1	1:G:309:ILE:HD13	1.82	0.42
1:G:310:ASN:HB2	1:I:379:PHE:HA	2.01	0.42
1:G:545:LYS:C	1:G:547:LEU:H	2.28	0.42
1:J:431:ASP:HB2	1:L:340:ARG:HH12	1.84	0.42
1:J:533:ASN:HD21	1:K:537:ARG:NH2	2.16	0.42
1:L:545:LYS:C	1:L:547:LEU:H	2.27	0.42
1:M:379:PHE:HA	1:b:310:ASN:HB2	2.01	0.42
1:M:435:THR:HG22	1:M:435:THR:O	2.20	0.42
1:N:283:SER:O	1:N:287:THR:OG1	2.35	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:P:42:TYR:CD2	1:Q:254:ILE:HD12	2.54	0.42
1:P:199:TYR:HE2	1:P:451:TRP:CD1	2.38	0.42
1:R:39:THR:HG21	1:R:262:SER:CB	2.50	0.42
1:R:254:ILE:HD12	1:V:42:TYR:CD2	2.55	0.42
1:R:379:PHE:HA	1:U:310:ASN:HB2	2.01	0.42
1:R:435:THR:O	1:R:435:THR:HG22	2.19	0.42
1:S:386:ASP:OD1	1:S:387:ASP:N	2.48	0.42
1:T:225:GLY:HA3	1:T:230:GLN:HB2	2.00	0.42
1:U:131:THR:HA	1:U:277:LEU:HD23	2.02	0.42
1:W:69:MET:HG2	1:W:70:SER:N	2.33	0.42
1:Y:39:THR:HG21	1:Y:262:SER:CB	2.50	0.42
1:Y:140:GLU:HG3	1:Y:520:LYS:CG	2.49	0.42
1:b:123:ASN:OD1	1:b:123:ASN:N	2.53	0.42
1:b:139:LEU:HD11	1:b:454:ILE:HG22	2.01	0.42
1:c:254:ILE:HD12	1:s:42:TYR:CD2	2.54	0.42
1:c:340:ARG:HH12	1:p:431:ASP:HB2	1.84	0.42
1:e:123:ASN:OD1	1:e:123:ASN:N	2.53	0.42
1:e:139:LEU:HD11	1:e:454:ILE:HG22	2.01	0.42
1:f:131:THR:HA	1:f:277:LEU:HD23	2.02	0.42
1:f:139:LEU:HD11	1:f:454:ILE:HG22	2.01	0.42
1:g:199:TYR:HE2	1:g:451:TRP:CD1	2.38	0.42
1:g:537:ARG:NH2	1:z:533:ASN:HD21	2.16	0.42
1:h:42:TYR:CD2	1:i:254:ILE:HD12	2.54	0.42
1:h:291:HIS:HE1	1:h:309:ILE:HD13	1.82	0.42
1:h:435:THR:HG22	1:h:435:THR:O	2.20	0.42
1:i:319:ASP:HB3	1:i:320:PRO:HD3	2.01	0.42
1:j:123:ASN:OD1	1:j:123:ASN:N	2.53	0.42
1:j:310:ASN:HB2	1:k:379:PHE:HA	2.01	0.42
1:m:289:SER:HA	1:n:188:VAL:CG2	2.49	0.42
1:m:547:LEU:HD21	1:r:530:ASN:ND2	2.35	0.42
1:n:254:ILE:HD12	1:r:42:TYR:CD2	2.54	0.42
1:n:536:GLY:O	1:n:537:ARG:HB3	2.20	0.42
1:o:192:MET:HE1	1:o:470:HIS:CG	2.55	0.42
1:o:319:ASP:HB3	1:o:320:PRO:HD3	2.01	0.42
1:o:431:ASP:HB2	1:p:340:ARG:HH12	1.84	0.42
1:o:435:THR:O	1:o:435:THR:HG22	2.20	0.42
1:p:157[B]:GLN:HG2	1:6:164:THR:HG21	2.02	0.42
1:p:199:TYR:HE2	1:p:451:TRP:CD1	2.38	0.42
1:p:283:SER:O	1:p:287:THR:OG1	2.35	0.42
1:p:537:ARG:NH2	1:s:533:ASN:HD21	2.17	0.42
1:q:533:ASN:HD21	1:x:537:ARG:NH2	2.16	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:r:39:THR:HG21	1:r:262:SER:CB	2.50	0.42
1:s:39:THR:HG21	1:s:262:SER:CB	2.50	0.42
1:s:69:MET:HG2	1:s:70:SER:N	2.33	0.42
1:t:123:ASN:OD1	1:t:123:ASN:N	2.53	0.42
1:t:280:HIS:HB3	1:t:568:THR:OG1	2.19	0.42
1:u:63:ARG:HD3	1:u:63:ARG:HA	1.80	0.42
1:u:157[B]:GLN:HG2	1:5:164:THR:HG21	2.02	0.42
1:u:536:GLY:O	1:u:537:ARG:HB3	2.20	0.42
1:w:123:ASN:OD1	1:w:123:ASN:N	2.53	0.42
1:w:139:LEU:HD11	1:w:454:ILE:HG22	2.01	0.42
1:w:188:VAL:CG2	1:y:289:SER:HA	2.49	0.42
1:w:192:MET:HE1	1:w:470:HIS:CG	2.55	0.42
1:w:386:ASP:OD1	1:w:387:ASP:N	2.48	0.42
1:w:536:GLY:O	1:w:537:ARG:HB3	2.20	0.42
1:x:536:GLY:O	1:x:537:ARG:HB3	2.20	0.42
1:y:192:MET:HE1	1:y:470:HIS:CG	2.55	0.42
1:z:39:THR:HG21	1:z:262:SER:CB	2.50	0.42
1:z:291:HIS:HE1	1:z:309:ILE:HD13	1.82	0.42
1:1:414:GLN:HG2	1:1:427:PHE:HD1	1.83	0.42
1:2:319:ASP:HB3	1:2:320:PRO:HD3	2.01	0.42
1:2:487:LEU:HD21	1:2:507:THR:HG22	2.01	0.42
1:2:536:GLY:O	1:2:537:ARG:HB3	2.20	0.42
1:3:225:GLY:HA3	1:3:230:GLN:HB2	2.00	0.42
1:3:536:GLY:O	1:3:537:ARG:HB3	2.20	0.42
1:5:123:ASN:OD1	1:5:123:ASN:N	2.53	0.42
1:5:188:VAL:CG2	1:7:289:SER:HA	2.49	0.42
1:5:280:HIS:HB3	1:5:568:THR:OG1	2.19	0.42
1:5:340:ARG:HH12	1:7:431:ASP:HB2	1.84	0.42
1:5:371:GLN:OE1	1:5:371:GLN:N	2.51	0.42
1:5:536:GLY:O	1:5:537:ARG:HB3	2.20	0.42
1:6:371:GLN:OE1	1:6:371:GLN:N	2.51	0.42
1:7:291:HIS:HE1	1:7:309:ILE:HD13	1.82	0.42
1:7:319:ASP:HB3	1:7:320:PRO:HD3	2.01	0.42
1:8:199:TYR:HE2	1:8:451:TRP:CD1	2.38	0.42
1:A:110:TRP:O	1:A:209:GLN:NE2	2.53	0.42
1:A:234:VAL:HG13	1:I:363:THR:HG22	2.00	0.42
1:B:39:THR:HG21	1:B:262:SER:CB	2.50	0.42
1:B:123:ASN:OD1	1:B:123:ASN:N	2.53	0.42
1:C:123:ASN:OD1	1:C:123:ASN:N	2.53	0.42
1:D:192:MET:HE1	1:D:470:HIS:CG	2.55	0.42
1:D:386:ASP:OD1	1:D:387:ASP:N	2.48	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:139:LEU:HD11	1:E:454:ILE:HG22	2.01	0.42
1:E:280:HIS:HB3	1:E:568:THR:OG1	2.19	0.42
1:F:110:TRP:O	1:F:209:GLN:NE2	2.53	0.42
1:G:280:HIS:HB3	1:G:568:THR:OG1	2.19	0.42
1:G:533:ASN:HD21	1:H:537:ARG:NH2	2.16	0.42
1:H:110:TRP:O	1:H:209:GLN:NE2	2.53	0.42
1:H:188:VAL:CG2	1:Y:289:SER:HA	2.49	0.42
1:H:199:TYR:HE2	1:H:451:TRP:CD1	2.38	0.42
1:I:199:TYR:HE2	1:I:451:TRP:CD1	2.38	0.42
1:I:545:LYS:C	1:I:547:LEU:H	2.27	0.42
1:J:386:ASP:OD1	1:J:387:ASP:N	2.48	0.42
1:K:199:TYR:HE2	1:K:451:TRP:CD1	2.38	0.42
1:K:225:GLY:HA3	1:K:230:GLN:HB2	2.00	0.42
1:L:110:TRP:O	1:L:209:GLN:NE2	2.53	0.42
1:M:386:ASP:OD1	1:M:387:ASP:N	2.48	0.42
1:N:140:GLU:HG3	1:N:520:LYS:CG	2.49	0.42
1:N:164:THR:HG21	1:m:157[B]:GLN:HG2	2.02	0.42
1:N:199:TYR:HE2	1:N:451:TRP:CD1	2.38	0.42
1:N:319:ASP:HB3	1:N:320:PRO:HD3	2.01	0.42
1:O:289:SER:HA	1:m:188:VAL:CG2	2.49	0.42
1:O:310:ASN:HB2	1:m:379:PHE:HA	2.01	0.42
1:O:545:LYS:C	1:O:547:LEU:H	2.28	0.42
1:P:487:LEU:HD21	1:P:507:THR:HG22	2.01	0.42
1:Q:199:TYR:HE2	1:Q:451:TRP:CD1	2.38	0.42
1:R:123:ASN:OD1	1:R:123:ASN:N	2.53	0.42
1:R:319:ASP:HB3	1:R:320:PRO:HD3	2.01	0.42
1:T:319:ASP:HB3	1:T:320:PRO:HD3	2.01	0.42
1:U:536:GLY:O	1:U:537:ARG:HB3	2.20	0.42
1:W:39:THR:HG21	1:W:262:SER:CB	2.50	0.42
1:W:123:ASN:OD1	1:W:123:ASN:N	2.53	0.42
1:W:431:ASP:HB2	1:Y:340:ARG:HH12	1.84	0.42
1:X:42:TYR:CD2	1:Y:254:ILE:HD12	2.55	0.42
1:X:379:PHE:HA	1:e:310:ASN:HB2	2.01	0.42
1:Y:280:HIS:HB3	1:Y:568:THR:OG1	2.19	0.42
1:Y:319:ASP:HB3	1:Y:320:PRO:HD3	2.01	0.42
1:Z:289:SER:HA	1:4:188:VAL:CG2	2.49	0.42
1:Z:545:LYS:C	1:Z:547:LEU:H	2.28	0.42
1:a:39:THR:HG21	1:a:262:SER:CB	2.49	0.42
1:a:435:THR:O	1:a:435:THR:HG22	2.19	0.42
1:a:533:ASN:HD21	1:3:537:ARG:NH2	2.17	0.42
1:b:42:TYR:CD2	1:o:254:ILE:HD12	2.55	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:c:63:ARG:HD3	1:c:63:ARG:HA	1.80	0.42
1:c:69:MET:HG2	1:c:70:SER:N	2.33	0.42
1:c:188:VAL:CG2	1:p:289:SER:HA	2.49	0.42
1:d:199:TYR:HE2	1:d:451:TRP:CD1	2.38	0.42
1:d:435:THR:O	1:d:435:THR:HG22	2.19	0.42
1:d:533:ASN:HD21	1:n:537:ARG:NH2	2.17	0.42
1:e:42:TYR:CD2	1:h:254:ILE:HD12	2.55	0.42
1:e:164:THR:HG21	1:h:157[B]:GLN:HG2	2.02	0.42
1:e:291:HIS:HE1	1:e:309:ILE:HD13	1.82	0.42
1:f:188:VAL:CG2	1:g:289:SER:HA	2.49	0.42
1:f:536:GLY:O	1:f:537:ARG:HB3	2.20	0.42
1:g:131:THR:HA	1:g:277:LEU:HD23	2.02	0.42
1:g:280:HIS:HB3	1:g:568:THR:OG1	2.19	0.42
1:g:545:LYS:C	1:g:547:LEU:H	2.27	0.42
1:h:192:MET:HE1	1:h:470:HIS:CG	2.55	0.42
1:i:536:GLY:O	1:i:537:ARG:HB3	2.20	0.42
1:k:371:GLN:OE1	1:k:371:GLN:N	2.51	0.42
1:k:487:LEU:HD21	1:k:507:THR:HG22	2.01	0.42
1:l:199:TYR:HE2	1:l:451:TRP:CD1	2.38	0.42
1:l:536:GLY:O	1:l:537:ARG:HB3	2.20	0.42
1:n:199:TYR:HE2	1:n:451:TRP:CD1	2.38	0.42
1:o:289:SER:HA	1:p:188:VAL:CG2	2.49	0.42
1:o:291:HIS:HE1	1:o:309:ILE:HD13	1.82	0.42
1:o:363:THR:HG22	1:p:234:VAL:HG13	2.00	0.42
1:p:131:THR:HA	1:p:277:LEU:HD23	2.02	0.42
1:p:280:HIS:HB3	1:p:568:THR:OG1	2.19	0.42
1:p:545:LYS:C	1:p:547:LEU:H	2.27	0.42
1:q:280:HIS:HB3	1:q:568:THR:OG1	2.19	0.42
1:q:340:ARG:HH12	1:s:431:ASP:HB2	1.84	0.42
1:r:131:THR:HA	1:r:277:LEU:HD23	2.02	0.42
1:r:319:ASP:HB3	1:r:320:PRO:HD3	2.01	0.42
1:r:487:LEU:HD21	1:r:507:THR:HG22	2.01	0.42
1:r:536:GLY:O	1:r:537:ARG:HB3	2.20	0.42
1:s:199:TYR:HE2	1:s:451:TRP:CD1	2.38	0.42
1:s:291:HIS:HE1	1:s:309:ILE:HD13	1.82	0.42
1:t:199:TYR:HE2	1:t:451:TRP:CD1	2.38	0.42
1:t:254:ILE:HD12	1:y:42:TYR:CD2	2.55	0.42
1:u:435:THR:O	1:u:435:THR:HG22	2.19	0.42
1:v:199:TYR:HE2	1:v:451:TRP:CD1	2.38	0.42
1:w:199:TYR:HE2	1:w:451:TRP:CD1	2.38	0.42
1:w:280:HIS:HB3	1:w:568:THR:OG1	2.19	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:x:283:SER:O	1:x:287:THR:OG1	2.35	0.42
1:x:291:HIS:HE1	1:x:309:ILE:HD13	1.82	0.42
1:y:39:THR:HG21	1:y:262:SER:CB	2.49	0.42
1:y:435:THR:O	1:y:435:THR:HG22	2.19	0.42
1:y:487:LEU:HD21	1:y:507:THR:HG22	2.01	0.42
1:z:69:MET:HG2	1:z:70:SER:N	2.33	0.42
1:z:199:TYR:HE2	1:z:451:TRP:CD1	2.38	0.42
1:z:431:ASP:HB2	1:1:340:ARG:HH12	1.84	0.42
1:z:545:LYS:C	1:z:547:LEU:H	2.28	0.42
1:1:280:HIS:HB3	1:1:568:THR:OG1	2.19	0.42
1:1:319:ASP:HB3	1:1:320:PRO:HD3	2.01	0.42
1:2:131:THR:HA	1:2:277:LEU:HD23	2.02	0.42
1:3:39:THR:HG21	1:3:262:SER:CB	2.50	0.42
1:3:42:TYR:CD2	1:8:254:ILE:HD12	2.55	0.42
1:3:188:VAL:CG2	1:4:289:SER:HA	2.49	0.42
1:4:77:ILE:HG12	1:4:106:VAL:HB	2.02	0.42
1:4:280:HIS:HB3	1:4:568:THR:OG1	2.19	0.42
1:5:234:VAL:HG13	1:7:363:THR:HG22	2.00	0.42
1:6:319:ASP:HB3	1:6:320:PRO:HD3	2.01	0.42
1:7:536:GLY:O	1:7:537:ARG:HB3	2.20	0.42
1:8:77:ILE:HG12	1:8:106:VAL:HB	2.02	0.42
1:8:123:ASN:OD1	1:8:123:ASN:N	2.53	0.42
1:8:536:GLY:O	1:8:537:ARG:HB3	2.20	0.42
1:A:254:ILE:HD12	1:B:42:TYR:CD2	2.55	0.42
1:B:536:GLY:O	1:B:537:ARG:HB3	2.20	0.42
1:D:39:THR:HG21	1:D:262:SER:CB	2.50	0.42
1:D:123:ASN:OD1	1:D:123:ASN:N	2.53	0.42
1:D:280:HIS:HB3	1:D:568:THR:OG1	2.19	0.42
1:D:536:GLY:O	1:D:537:ARG:HB3	2.20	0.42
1:E:188:VAL:CG2	1:F:289:SER:HA	2.49	0.42
1:E:199:TYR:HE2	1:E:451:TRP:CD1	2.38	0.42
1:F:234:VAL:HG13	1:Q:363:THR:HG22	2.00	0.42
1:F:536:GLY:O	1:F:537:ARG:HB3	2.20	0.42
1:G:199:TYR:HE2	1:G:451:TRP:CD1	2.38	0.42
1:H:279:TYR:OH	1:W:242:ASP:OD2	2.31	0.42
1:H:340:ARG:HH12	1:Y:431:ASP:HB2	1.84	0.42
1:J:289:SER:HA	1:L:188:VAL:CG2	2.49	0.42
1:J:537:ARG:NH2	1:K:533:ASN:HD21	2.17	0.42
1:K:42:TYR:CD2	1:L:254:ILE:HD12	2.55	0.42
1:K:140:GLU:HG3	1:K:520:LYS:CG	2.49	0.42
1:K:280:HIS:HB3	1:K:568:THR:OG1	2.19	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:319:ASP:HB3	1:K:320:PRO:HD3	2.01	0.42
1:L:386:ASP:OD1	1:L:387:ASP:N	2.48	0.42
1:L:487:LEU:HD21	1:L:507:THR:HG22	2.01	0.42
1:M:280:HIS:HB3	1:M:568:THR:OG1	2.19	0.42
1:N:280:HIS:HB3	1:N:568:THR:OG1	2.19	0.42
1:N:289:SER:HA	1:P:188:VAL:CG2	2.49	0.42
1:O:42:TYR:CD2	1:P:254:ILE:HD12	2.54	0.42
1:O:291:HIS:HE1	1:O:309:ILE:HD13	1.82	0.42
1:P:110:TRP:O	1:P:209:GLN:NE2	2.53	0.42
1:P:435:THR:HG22	1:P:435:THR:O	2.19	0.42
1:Q:545:LYS:C	1:Q:547:LEU:H	2.27	0.42
1:R:63:ARG:HD3	1:R:63:ARG:HA	1.80	0.42
1:R:77:ILE:HG12	1:R:106:VAL:HB	2.02	0.42
1:S:289:SER:HA	1:U:188:VAL:CG2	2.49	0.42
1:S:533:ASN:HD21	1:T:537:ARG:NH2	2.16	0.42
1:T:42:TYR:CD2	1:U:254:ILE:HD12	2.55	0.42
1:T:140:GLU:HG3	1:T:520:LYS:CG	2.49	0.42
1:T:199:TYR:HE2	1:T:451:TRP:CD1	2.38	0.42
1:T:280:HIS:HB3	1:T:568:THR:OG1	2.19	0.42
1:U:110:TRP:O	1:U:209:GLN:NE2	2.53	0.42
1:U:487:LEU:HD21	1:U:507:THR:HG22	2.01	0.42
1:V:123:ASN:OD1	1:V:123:ASN:N	2.53	0.42
1:V:310:ASN:HB2	1:e:379:PHE:HA	2.01	0.42
1:V:536:GLY:O	1:V:537:ARG:HB3	2.20	0.42
1:W:280:HIS:HB3	1:W:568:THR:OG1	2.19	0.42
1:W:536:GLY:O	1:W:537:ARG:HB3	2.20	0.42
1:X:386:ASP:OD1	1:X:387:ASP:N	2.48	0.42
1:Y:164:THR:HG21	1:4:157[B]:GLN:HG2	2.02	0.42
1:Y:199:TYR:HE2	1:Y:451:TRP:CD1	2.38	0.42
1:Y:487:LEU:HD21	1:Y:507:THR:HG22	2.01	0.42
1:Y:536:GLY:O	1:Y:537:ARG:HB3	2.20	0.42
1:Z:39:THR:HG21	1:Z:262:SER:CB	2.49	0.42
1:Z:310:ASN:HB2	1:4:379:PHE:HA	2.01	0.42
1:Z:391:ARG:HA	1:Z:391:ARG:HD3	1.89	0.42
1:a:199:TYR:HE2	1:a:451:TRP:CD1	2.38	0.42
1:b:533:ASN:HD21	1:c:537:ARG:NH2	2.17	0.42
1:b:545:LYS:C	1:b:547:LEU:H	2.27	0.42
1:c:536:GLY:O	1:c:537:ARG:HB3	2.20	0.42
1:f:69:MET:HG2	1:f:70:SER:N	2.33	0.42
1:g:234:VAL:HG13	1:h:363:THR:HG22	2.00	0.42
1:g:340:ARG:HH12	1:h:431:ASP:HB2	1.84	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:g:379:PHE:HA	1:h:310:ASN:HB2	2.01	0.42
1:g:435:THR:O	1:g:435:THR:HG22	2.19	0.42
1:h:164:THR:HG21	1:i:157[B]:GLN:HG2	2.01	0.42
1:i:242:ASP:OD2	1:k:279:TYR:OH	2.31	0.42
1:i:289:SER:HA	1:j:188:VAL:CG2	2.49	0.42
1:i:363:THR:HG22	1:j:234:VAL:HG13	2.00	0.42
1:i:545:LYS:C	1:i:547:LEU:H	2.28	0.42
1:j:530:ASN:ND2	1:w:547:LEU:HD21	2.35	0.42
1:k:199:TYR:HE2	1:k:451:TRP:CD1	2.38	0.42
1:l:77:ILE:HG12	1:l:106:VAL:HB	2.02	0.42
1:l:123:ASN:OD1	1:l:123:ASN:N	2.53	0.42
1:l:254:ILE:HD12	1:n:42:TYR:CD2	2.55	0.42
1:m:77:ILE:HG12	1:m:106:VAL:HB	2.02	0.42
1:m:140:GLU:HG3	1:m:520:LYS:CG	2.49	0.42
1:n:39:THR:HG21	1:n:262:SER:CB	2.49	0.42
1:n:77:ILE:HG12	1:n:106:VAL:HB	2.02	0.42
1:n:225:GLY:HA3	1:n:230:GLN:HB2	2.00	0.42
1:o:42:TYR:CD2	1:7:254:ILE:HD12	2.55	0.42
1:q:414:GLN:HG2	1:q:427:PHE:HD1	1.83	0.42
1:q:537:ARG:NH2	1:x:533:ASN:HD21	2.17	0.42
1:t:363:THR:HG22	1:u:234:VAL:HG13	2.00	0.42
1:t:547:LEU:HD21	1:5:530:ASN:ND2	2.35	0.42
1:u:192:MET:HE1	1:u:470:HIS:CG	2.55	0.42
1:u:545:LYS:C	1:u:547:LEU:H	2.27	0.42
1:v:39:THR:HG21	1:v:262:SER:CB	2.49	0.42
1:v:42:TYR:CD2	1:w:254:ILE:HD12	2.55	0.42
1:v:435:THR:HG22	1:v:435:THR:O	2.19	0.42
1:v:487:LEU:HD21	1:v:507:THR:HG22	2.01	0.42
1:w:363:THR:HG22	1:x:234:VAL:HG13	2.00	0.42
1:x:435:THR:HG22	1:x:435:THR:O	2.19	0.42
1:y:199:TYR:HE2	1:y:451:TRP:CD1	2.38	0.42
1:2:192:MET:HE1	1:2:470:HIS:CG	2.55	0.42
1:3:110:TRP:O	1:3:209:GLN:NE2	2.53	0.42
1:3:199:TYR:HE2	1:3:451:TRP:CD1	2.38	0.42
1:4:545:LYS:C	1:4:547:LEU:H	2.27	0.42
1:6:199:TYR:HE2	1:6:451:TRP:CD1	2.38	0.42
1:6:279:TYR:OH	1:7:242:ASP:OD2	2.31	0.42
1:8:39:THR:HG21	1:8:262:SER:CB	2.49	0.42
1:8:435:THR:HG22	1:8:435:THR:O	2.20	0.42
1:A:164:THR:HG21	1:E:157[B]:GLN:HG2	2.01	0.42
1:A:199:TYR:HE2	1:A:451:TRP:CD1	2.38	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:487:LEU:HD21	1:A:507:THR:HG22	2.01	0.42
1:A:536:GLY:O	1:A:537:ARG:HB3	2.20	0.42
1:B:77:ILE:HG12	1:B:106:VAL:HB	2.02	0.42
1:B:223:ILE:HD13	1:L:430:GLN:NE2	2.35	0.42
1:B:379:PHE:HA	1:L:310:ASN:HB2	2.01	0.42
1:C:110:TRP:O	1:C:209:GLN:NE2	2.53	0.42
1:C:310:ASN:HB2	1:b:379:PHE:HA	2.01	0.42
1:C:536:GLY:O	1:C:537:ARG:HB3	2.20	0.42
1:D:430:GLN:NE2	1:N:223:ILE:HD13	2.35	0.42
1:D:431:ASP:HB2	1:N:340:ARG:HH12	1.84	0.42
1:G:192:MET:HE1	1:G:470:HIS:CG	2.55	0.42
1:H:435:THR:HG22	1:H:435:THR:O	2.20	0.42
1:H:457:LYS:HE3	1:H:457:LYS:HB2	1.92	0.42
1:I:139:LEU:HD11	1:I:454:ILE:HG22	2.01	0.42
1:J:140:GLU:HG3	1:J:520:LYS:CG	2.49	0.42
1:K:192:MET:HE1	1:K:470:HIS:CG	2.55	0.42
1:K:310:ASN:HB2	1:a:379:PHE:HA	2.01	0.42
1:K:379:PHE:HA	1:8:310:ASN:HB2	2.01	0.42
1:L:536:GLY:O	1:L:537:ARG:HB3	2.20	0.42
1:M:42:TYR:CD2	1:N:254:ILE:HD12	2.55	0.42
1:M:139:LEU:HD11	1:M:454:ILE:HG22	2.01	0.42
1:N:431:ASP:HB2	1:P:340:ARG:HH12	1.84	0.42
1:N:536:GLY:O	1:N:537:ARG:HB3	2.20	0.42
1:P:319:ASP:HB3	1:P:320:PRO:HD3	2.01	0.42
1:R:280:HIS:HB3	1:R:568:THR:OG1	2.19	0.42
1:S:139:LEU:HD11	1:S:454:ILE:HG22	2.01	0.42
1:S:140:GLU:HG3	1:S:520:LYS:CG	2.49	0.42
1:T:77:ILE:HG12	1:T:106:VAL:HB	2.02	0.42
1:T:192:MET:HE1	1:T:470:HIS:CG	2.55	0.42
1:T:379:PHE:HA	1:l:310:ASN:HB2	2.01	0.42
1:W:430:GLN:NE2	1:Y:223:ILE:HD13	2.35	0.42
1:X:139:LEU:HD11	1:X:454:ILE:HG22	2.01	0.42
1:X:457:LYS:HE3	1:X:457:LYS:HB2	1.92	0.42
1:a:192:MET:HE1	1:a:470:HIS:CG	2.55	0.42
1:a:536:GLY:O	1:a:537:ARG:HB3	2.20	0.42
1:b:291:HIS:HE1	1:b:309:ILE:HD13	1.82	0.42
1:b:391:ARG:HA	1:b:391:ARG:HD3	1.89	0.42
1:c:110:TRP:O	1:c:209:GLN:NE2	2.53	0.42
1:d:39:THR:HG21	1:d:262:SER:CB	2.49	0.42
1:d:192:MET:HE1	1:d:470:HIS:CG	2.55	0.42
1:d:536:GLY:O	1:d:537:ARG:HB3	2.20	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:e:545:LYS:C	1:e:547:LEU:H	2.27	0.42
1:f:110:TRP:O	1:f:209:GLN:NE2	2.53	0.42
1:f:340:ARG:HH12	1:g:431:ASP:HB2	1.84	0.42
1:g:188:VAL:CG2	1:h:289:SER:HA	2.49	0.42
1:i:63:ARG:HD3	1:i:63:ARG:HA	1.80	0.42
1:j:69:MET:HG2	1:j:70:SER:N	2.33	0.42
1:j:289:SER:HA	1:k:188:VAL:CG2	2.49	0.42
1:j:545:LYS:C	1:j:547:LEU:H	2.28	0.42
1:k:319:ASP:HB3	1:k:320:PRO:HD3	2.01	0.42
1:l:39:THR:HG21	1:l:262:SER:CB	2.49	0.42
1:m:199:TYR:HE2	1:m:451:TRP:CD1	2.38	0.42
1:m:280:HIS:HB3	1:m:568:THR:OG1	2.19	0.42
1:m:283:SER:H	1:m:286:HIS:CD2	2.26	0.42
1:n:110:TRP:O	1:n:209:GLN:NE2	2.53	0.42
1:o:164:THR:HG21	1:7:157[B]:GLN:HG2	2.01	0.42
1:o:310:ASN:HB2	1:p:379:PHE:HA	2.01	0.42
1:p:435:THR:O	1:p:435:THR:HG22	2.19	0.42
1:s:110:TRP:O	1:s:209:GLN:NE2	2.53	0.42
1:u:254:ILE:HD12	1:5:42:TYR:CD2	2.54	0.42
1:u:283:SER:H	1:u:286:HIS:CD2	2.26	0.42
1:v:280:HIS:HB3	1:v:568:THR:OG1	2.19	0.42
1:x:192:MET:HE1	1:x:470:HIS:CG	2.55	0.42
1:y:371:GLN:N	1:y:371:GLN:OE1	2.51	0.42
1:z:110:TRP:O	1:z:209:GLN:NE2	2.53	0.42
1:z:379:PHE:HA	1:2:310:ASN:HB2	2.02	0.42
1:1:430:GLN:HE22	1:2:223:ILE:HD13	1.84	0.42
1:1:431:ASP:HB2	1:2:340:ARG:HH12	1.85	0.42
1:3:77:ILE:HG12	1:3:106:VAL:HB	2.02	0.42
1:4:199:TYR:HE2	1:4:451:TRP:CD1	2.38	0.42
1:4:536:GLY:O	1:4:537:ARG:HB3	2.20	0.42
1:5:69:MET:HG2	1:5:70:SER:N	2.33	0.42
1:5:223:ILE:HD13	1:7:430:GLN:NE2	2.35	0.42
1:6:487:LEU:HD21	1:6:507:THR:HG22	2.01	0.42
1:7:545:LYS:C	1:7:547:LEU:H	2.28	0.42
1:8:110:TRP:O	1:8:209:GLN:NE2	2.53	0.42
1:A:545:LYS:C	1:A:547:LEU:H	2.28	0.41
1:B:110:TRP:O	1:B:209:GLN:NE2	2.53	0.41
1:B:192:MET:HE1	1:B:470:HIS:CG	2.55	0.41
1:B:280:HIS:HB3	1:B:568:THR:OG1	2.19	0.41
1:B:319:ASP:HB3	1:B:320:PRO:HD3	2.01	0.41
1:C:340:ARG:HH12	1:M:431:ASP:HB2	1.84	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:69:MET:HG2	1:F:70:SER:N	2.33	0.41
1:F:199:TYR:HE2	1:F:451:TRP:CD1	2.38	0.41
1:H:139:LEU:HD11	1:H:454:ILE:HG22	2.01	0.41
1:H:319:ASP:HB3	1:H:320:PRO:HD3	2.01	0.41
1:J:545:LYS:C	1:J:547:LEU:H	2.28	0.41
1:K:77:ILE:HG12	1:K:106:VAL:HB	2.02	0.41
1:L:69:MET:HG2	1:L:70:SER:N	2.33	0.41
1:N:487:LEU:HD21	1:N:507:THR:HG22	2.01	0.41
1:O:223:ILE:HD13	1:n:430:GLN:NE2	2.35	0.41
1:P:139:LEU:HD11	1:P:454:ILE:HG22	2.01	0.41
1:P:545:LYS:C	1:P:547:LEU:H	2.28	0.41
1:Q:139:LEU:HD11	1:Q:454:ILE:HG22	2.01	0.41
1:R:110:TRP:O	1:R:209:GLN:NE2	2.53	0.41
1:R:223:ILE:HD13	1:U:430:GLN:NE2	2.36	0.41
1:R:536:GLY:O	1:R:537:ARG:HB3	2.20	0.41
1:S:280:HIS:HB3	1:S:568:THR:OG1	2.19	0.41
1:S:537:ARG:NH2	1:T:533:ASN:HD21	2.17	0.41
1:U:69:MET:HG2	1:U:70:SER:N	2.33	0.41
1:V:110:TRP:O	1:V:209:GLN:NE2	2.53	0.41
1:Y:110:TRP:O	1:Y:209:GLN:NE2	2.53	0.41
1:Z:223:ILE:HD13	1:3:430:GLN:NE2	2.35	0.41
1:b:435:THR:O	1:b:435:THR:HG22	2.19	0.41
1:b:547:LEU:HD21	1:c:530:ASN:ND2	2.35	0.41
1:e:435:THR:O	1:e:435:THR:HG22	2.19	0.41
1:e:533:ASN:HD21	1:f:537:ARG:NH2	2.17	0.41
1:h:39:THR:HG21	1:h:262:SER:CB	2.49	0.41
1:j:42:TYR:CD2	1:x:254:ILE:HD12	2.54	0.41
1:j:487:LEU:HD21	1:j:507:THR:HG22	2.01	0.41
1:k:157[B]:GLN:HG2	1:w:164:THR:HG21	2.02	0.41
1:k:386:ASP:OD1	1:k:387:ASP:N	2.48	0.41
1:k:536:GLY:O	1:k:537:ARG:HB3	2.20	0.41
1:l:139:LEU:HD11	1:l:454:ILE:HG22	2.01	0.41
1:l:435:THR:O	1:l:435:THR:HG22	2.19	0.41
1:m:42:TYR:CD2	1:s:254:ILE:HD12	2.55	0.41
1:m:110:TRP:O	1:m:209:GLN:NE2	2.53	0.41
1:m:192:MET:HE1	1:m:470:HIS:CG	2.55	0.41
1:m:536:GLY:O	1:m:537:ARG:HB3	2.20	0.41
1:n:487:LEU:HD21	1:n:507:THR:HG22	2.01	0.41
1:q:110:TRP:O	1:q:209:GLN:NE2	2.53	0.41
1:q:319:ASP:HB3	1:q:320:PRO:HD3	2.01	0.41
1:r:192:MET:HE1	1:r:470:HIS:CG	2.55	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:s:63:ARG:HA	1:s:63:ARG:HD3	1.80	0.41
1:s:77:ILE:HG12	1:s:106:VAL:HB	2.02	0.41
1:s:371:GLN:OE1	1:s:371:GLN:N	2.51	0.41
1:t:386:ASP:OD1	1:t:387:ASP:N	2.48	0.41
1:u:533:ASN:HD21	1:1:537:ARG:NH2	2.17	0.41
1:z:77:ILE:HG12	1:z:106:VAL:HB	2.02	0.41
1:1:110:TRP:O	1:1:209:GLN:NE2	2.53	0.41
1:2:140:GLU:HG3	1:2:520:LYS:CG	2.49	0.41
1:3:487:LEU:HD21	1:3:507:THR:HG22	2.01	0.41
1:4:131:THR:HA	1:4:277:LEU:HD23	2.02	0.41
1:4:140:GLU:HG3	1:4:520:LYS:CG	2.49	0.41
1:4:192:MET:HE1	1:4:470:HIS:CG	2.55	0.41
1:5:192:MET:HE1	1:5:470:HIS:CG	2.55	0.41
1:5:487:LEU:HD21	1:5:507:THR:HG22	2.01	0.41
1:5:545:LYS:C	1:5:547:LEU:H	2.28	0.41
1:6:536:GLY:O	1:6:537:ARG:HB3	2.20	0.41
1:A:140:GLU:HG3	1:A:520:LYS:CG	2.49	0.41
1:B:545:LYS:C	1:B:547:LEU:H	2.28	0.41
1:E:192:MET:HE1	1:E:470:HIS:CG	2.55	0.41
1:F:487:LEU:HD21	1:F:507:THR:HG22	2.01	0.41
1:H:254:ILE:HD12	1:Z:42:TYR:CD2	2.55	0.41
1:H:280:HIS:HB3	1:H:568:THR:OG1	2.19	0.41
1:H:283:SER:H	1:H:286:HIS:CD2	2.26	0.41
1:H:545:LYS:C	1:H:547:LEU:H	2.28	0.41
1:J:139:LEU:HD11	1:J:454:ILE:HG22	2.01	0.41
1:K:283:SER:O	1:K:287:THR:OG1	2.35	0.41
1:L:139:LEU:HD11	1:L:454:ILE:HG22	2.01	0.41
1:M:254:ILE:HD12	1:c:42:TYR:CD2	2.55	0.41
1:N:110:TRP:O	1:N:209:GLN:NE2	2.53	0.41
1:N:310:ASN:HB2	1:P:379:PHE:HA	2.01	0.41
1:O:140:GLU:HG3	1:O:520:LYS:CG	2.49	0.41
1:Q:77:ILE:HG12	1:Q:106:VAL:HB	2.02	0.41
1:R:192:MET:HE1	1:R:470:HIS:CG	2.55	0.41
1:R:199:TYR:HE2	1:R:451:TRP:CD1	2.38	0.41
1:T:254:ILE:HD12	1:i:42:TYR:CD2	2.54	0.41
1:T:283:SER:O	1:T:287:THR:OG1	2.35	0.41
1:U:139:LEU:HD11	1:U:454:ILE:HG22	2.01	0.41
1:V:340:ARG:HH12	1:X:431:ASP:HB2	1.84	0.41
1:X:280:HIS:HB3	1:X:568:THR:OG1	2.19	0.41
1:Z:254:ILE:HD12	1:a:42:TYR:CD2	2.55	0.41
1:d:430:GLN:NE2	1:l:223:ILE:HD13	2.35	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:e:547:LEU:HD21	1:f:530:ASN:ND2	2.35	0.41
1:g:132:THR:O	1:g:524:ARG:HD2	2.20	0.41
1:i:223:ILE:HD13	1:k:430:GLN:NE2	2.35	0.41
1:i:430:GLN:NE2	1:j:223:ILE:HD13	2.35	0.41
1:j:192:MET:HE1	1:j:470:HIS:CG	2.55	0.41
1:l:110:TRP:O	1:l:209:GLN:NE2	2.53	0.41
1:l:140:GLU:HG3	1:l:520:LYS:CG	2.49	0.41
1:m:131:THR:HA	1:m:277:LEU:HD23	2.02	0.41
1:n:280:HIS:HB3	1:n:568:THR:OG1	2.19	0.41
1:n:435:THR:HG22	1:n:435:THR:O	2.20	0.41
1:n:545:LYS:C	1:n:547:LEU:H	2.28	0.41
1:p:132:THR:O	1:p:524:ARG:HD2	2.20	0.41
1:q:530:ASN:ND2	1:x:547:LEU:HD21	2.35	0.41
1:r:140:GLU:HG3	1:r:520:LYS:CG	2.49	0.41
1:s:132:THR:O	1:s:524:ARG:HD2	2.20	0.41
1:t:77:ILE:HG12	1:t:106:VAL:HB	2.02	0.41
1:t:110:TRP:O	1:t:209:GLN:NE2	2.53	0.41
1:t:164:THR:HG21	1:6:157[B]:GLN:HG2	2.01	0.41
1:t:283:SER:H	1:t:286:HIS:CD2	2.26	0.41
1:t:340:ARG:HH12	1:v:431:ASP:HB2	1.84	0.41
1:v:371:GLN:N	1:v:371:GLN:OE1	2.51	0.41
1:w:77:ILE:HG12	1:w:106:VAL:HB	2.02	0.41
1:w:110:TRP:O	1:w:209:GLN:NE2	2.53	0.41
1:y:63:ARG:HA	1:y:63:ARG:HD3	1.80	0.41
1:y:280:HIS:HB3	1:y:568:THR:OG1	2.19	0.41
1:z:132:THR:O	1:z:524:ARG:HD2	2.20	0.41
1:z:254:ILE:HD12	1:4:42:TYR:CD2	2.55	0.41
1:z:386:ASP:OD1	1:z:387:ASP:N	2.48	0.41
1:1:199:TYR:HE2	1:1:451:TRP:CD1	2.38	0.41
1:3:280:HIS:HB3	1:3:568:THR:OG1	2.19	0.41
1:3:435:THR:O	1:3:435:THR:HG22	2.20	0.41
1:4:435:THR:O	1:4:435:THR:HG22	2.20	0.41
1:5:289:SER:HA	1:6:188:VAL:CG2	2.49	0.41
1:6:110:TRP:O	1:6:209:GLN:NE2	2.53	0.41
1:6:140:GLU:HG3	1:6:520:LYS:CG	2.49	0.41
1:6:430:GLN:NE2	1:7:223:ILE:HD13	2.35	0.41
1:6:435:THR:O	1:6:435:THR:HG22	2.19	0.41
1:8:139:LEU:HD11	1:8:454:ILE:HG22	2.01	0.41
1:A:69:MET:HG2	1:A:70:SER:N	2.33	0.41
1:A:223:ILE:HD13	1:I:430:GLN:NE2	2.35	0.41
1:B:199:TYR:HE2	1:B:451:TRP:CD1	2.38	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:530:ASN:ND2	1:I:547:LEU:HD21	2.35	0.41
1:C:280:HIS:HB3	1:C:568:THR:OG1	2.19	0.41
1:D:242:ASP:OD2	1:P:279:TYR:OH	2.31	0.41
1:F:164:THR:HG21	1:G:157[B]:GLN:HG2	2.02	0.41
1:H:180:ASP:OD2	1:H:185:LEU:HD12	2.21	0.41
1:I:77:ILE:HG12	1:I:106:VAL:HB	2.02	0.41
1:J:280:HIS:HB3	1:J:568:THR:OG1	2.19	0.41
1:J:536:GLY:O	1:J:537:ARG:HB3	2.20	0.41
1:K:536:GLY:O	1:K:537:ARG:HB3	2.20	0.41
1:L:180:ASP:OD2	1:L:185:LEU:HD12	2.21	0.41
1:M:132:THR:O	1:M:524:ARG:HD2	2.20	0.41
1:M:164:THR:HG21	1:N:157[B]:GLN:HG2	2.01	0.41
1:N:63:ARG:HA	1:N:63:ARG:HD3	1.80	0.41
1:N:386:ASP:OD1	1:N:387:ASP:N	2.48	0.41
1:O:536:GLY:O	1:O:537:ARG:HB3	2.20	0.41
1:P:180:ASP:OD2	1:P:185:LEU:HD12	2.21	0.41
1:P:280:HIS:HB3	1:P:568:THR:OG1	2.19	0.41
1:Q:487:LEU:HD21	1:Q:507:THR:HG22	2.01	0.41
1:Q:547:LEU:HD21	1:R:530:ASN:ND2	2.35	0.41
1:R:131:THR:HA	1:R:277:LEU:HD23	2.02	0.41
1:S:536:GLY:O	1:S:537:ARG:HB3	2.20	0.41
1:T:310:ASN:HB2	1:d:379:PHE:HA	2.01	0.41
1:T:536:GLY:O	1:T:537:ARG:HB3	2.20	0.41
1:W:310:ASN:HB2	1:Y:379:PHE:HA	2.01	0.41
1:X:132:THR:O	1:X:524:ARG:HD2	2.20	0.41
1:X:164:THR:HG21	1:Y:157[B]:GLN:HG2	2.01	0.41
1:X:254:ILE:HD12	1:f:42:TYR:CD2	2.55	0.41
1:Y:386:ASP:OD1	1:Y:387:ASP:N	2.48	0.41
1:Z:140:GLU:HG3	1:Z:520:LYS:CG	2.49	0.41
1:a:386:ASP:OD1	1:a:387:ASP:N	2.48	0.41
1:a:430:GLN:NE2	1:8:223:ILE:HD13	2.35	0.41
1:c:180:ASP:OD2	1:c:185:LEU:HD12	2.21	0.41
1:c:199:TYR:HE2	1:c:451:TRP:CD1	2.38	0.41
1:c:280:HIS:HB3	1:c:568:THR:OG1	2.19	0.41
1:c:430:GLN:NE2	1:o:223:ILE:HD13	2.35	0.41
1:d:156:LYS:HB3	1:d:163:GLU:OE2	2.21	0.41
1:f:199:TYR:HE2	1:f:451:TRP:CD1	2.38	0.41
1:f:430:GLN:NE2	1:h:223:ILE:HD13	2.35	0.41
1:h:110:TRP:O	1:h:209:GLN:NE2	2.53	0.41
1:h:530:ASN:ND2	1:k:547:LEU:HD21	2.35	0.41
1:i:533:ASN:HD21	1:l:537:ARG:NH2	2.16	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:j:430:GLN:NE2	1:k:223:ILE:HD13	2.35	0.41
1:k:110:TRP:O	1:k:209:GLN:NE2	2.53	0.41
1:k:132:THR:O	1:k:524:ARG:HD2	2.21	0.41
1:k:139:LEU:HD11	1:k:454:ILE:HG22	2.01	0.41
1:k:140:GLU:HG3	1:k:520:LYS:CG	2.49	0.41
1:k:380:ASP:OD1	1:k:381:TYR:N	2.46	0.41
1:m:156:LYS:HB3	1:m:163:GLU:OE2	2.21	0.41
1:n:132:THR:O	1:n:524:ARG:HD2	2.20	0.41
1:o:39:THR:HG21	1:o:262:SER:CB	2.49	0.41
1:o:530:ASN:ND2	1:6:547:LEU:HD21	2.35	0.41
1:q:199:TYR:HE2	1:q:451:TRP:CD1	2.38	0.41
1:q:310:ASN:HB2	1:r:379:PHE:HA	2.01	0.41
1:q:391:ARG:HA	1:q:391:ARG:HD3	1.89	0.41
1:r:254:ILE:HD12	1:x:42:TYR:CD2	2.55	0.41
1:s:386:ASP:OD1	1:s:387:ASP:N	2.48	0.41
1:t:223:ILE:HD13	1:v:430:GLN:NE2	2.35	0.41
1:t:435:THR:O	1:t:435:THR:HG22	2.20	0.41
1:t:530:ASN:ND2	1:5:547:LEU:HD21	2.35	0.41
1:u:77:ILE:HG12	1:u:106:VAL:HB	2.02	0.41
1:u:110:TRP:O	1:u:209:GLN:NE2	2.53	0.41
1:w:132:THR:O	1:w:524:ARG:HD2	2.21	0.41
1:x:77:ILE:HG12	1:x:106:VAL:HB	2.02	0.41
1:x:110:TRP:O	1:x:209:GLN:NE2	2.53	0.41
1:x:180:ASP:OD2	1:x:185:LEU:HD12	2.21	0.41
1:x:545:LYS:C	1:x:547:LEU:H	2.28	0.41
1:y:110:TRP:O	1:y:209:GLN:NE2	2.53	0.41
1:z:234:VAL:HG13	1:2:363:THR:HG22	2.02	0.41
1:z:371:GLN:OE1	1:z:371:GLN:N	2.51	0.41
1:1:310:ASN:HB2	1:2:379:PHE:HA	2.01	0.41
1:1:363:THR:HG22	1:2:234:VAL:HG13	2.01	0.41
1:3:132:THR:O	1:3:524:ARG:HD2	2.20	0.41
1:3:139:LEU:HD11	1:3:454:ILE:HG22	2.01	0.41
1:3:545:LYS:C	1:3:547:LEU:H	2.27	0.41
1:4:110:TRP:O	1:4:209:GLN:NE2	2.53	0.41
1:4:283:SER:H	1:4:286:HIS:CD2	2.26	0.41
1:5:435:THR:HG22	1:5:435:THR:O	2.19	0.41
1:6:132:THR:O	1:6:524:ARG:HD2	2.21	0.41
1:6:139:LEU:HD11	1:6:454:ILE:HG22	2.01	0.41
1:8:140:GLU:HG3	1:8:520:LYS:CG	2.49	0.41
1:A:77:ILE:HG12	1:A:106:VAL:HB	2.02	0.41
1:A:156:LYS:HB3	1:A:163:GLU:OE2	2.21	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:279:TYR:OH	1:G:242:ASP:OD2	2.31	0.41
1:B:131:THR:HA	1:B:277:LEU:HD23	2.02	0.41
1:D:139:LEU:HD11	1:D:454:ILE:HG22	2.01	0.41
1:D:223:ILE:HD13	1:P:430:GLN:NE2	2.35	0.41
1:D:310:ASN:HB2	1:N:379:PHE:HA	2.01	0.41
1:E:545:LYS:C	1:E:547:LEU:H	2.28	0.41
1:F:140:GLU:HG3	1:F:520:LYS:CG	2.49	0.41
1:F:156:LYS:HB3	1:F:163:GLU:OE2	2.21	0.41
1:F:545:LYS:C	1:F:547:LEU:H	2.28	0.41
1:H:131:THR:HA	1:H:277:LEU:HD23	2.02	0.41
1:H:430:GLN:NE2	1:W:223:ILE:HD13	2.35	0.41
1:I:164:THR:HG21	1:J:157[B]:GLN:HG2	2.01	0.41
1:K:254:ILE:HD12	1:7:42:TYR:CD2	2.54	0.41
1:L:192:MET:HE1	1:L:470:HIS:CG	2.55	0.41
1:M:192:MET:HE1	1:M:470:HIS:CG	2.55	0.41
1:M:457:LYS:HE3	1:M:457:LYS:HB2	1.92	0.41
1:O:254:ILE:HD12	1:d:42:TYR:CD2	2.55	0.41
1:O:430:GLN:NE2	1:m:223:ILE:HD13	2.36	0.41
1:P:77:ILE:HG12	1:P:106:VAL:HB	2.02	0.41
1:Q:164:THR:HG21	1:S:157[B]:GLN:HG2	2.01	0.41
1:R:180:ASP:OD2	1:R:185:LEU:HD12	2.21	0.41
1:S:545:LYS:C	1:S:547:LEU:H	2.27	0.41
1:T:386:ASP:OD1	1:T:387:ASP:N	2.48	0.41
1:U:180:ASP:OD2	1:U:185:LEU:HD12	2.21	0.41
1:V:279:TYR:OH	1:e:242:ASP:OD2	2.32	0.41
1:V:280:HIS:HB3	1:V:568:THR:OG1	2.19	0.41
1:W:110:TRP:O	1:W:209:GLN:NE2	2.53	0.41
1:X:192:MET:HE1	1:X:470:HIS:CG	2.55	0.41
1:Z:319:ASP:HB3	1:Z:320:PRO:HD3	2.01	0.41
1:Z:536:GLY:O	1:Z:537:ARG:HB3	2.20	0.41
1:b:537:ARG:NH2	1:c:533:ASN:HD21	2.17	0.41
1:c:192:MET:HE1	1:c:470:HIS:CG	2.55	0.41
1:e:110:TRP:O	1:e:209:GLN:NE2	2.53	0.41
1:f:180:ASP:OD2	1:f:185:LEU:HD12	2.21	0.41
1:f:280:HIS:HB3	1:f:568:THR:OG1	2.19	0.41
1:f:545:LYS:C	1:f:547:LEU:H	2.27	0.41
1:g:407:TRP:CD1	1:g:409:PRO:HD2	2.56	0.41
1:h:199:TYR:HE2	1:h:451:TRP:CD1	2.38	0.41
1:h:536:GLY:O	1:h:537:ARG:HB3	2.20	0.41
1:h:547:LEU:HD21	1:k:530:ASN:ND2	2.35	0.41
1:i:131:THR:HA	1:i:277:LEU:HD23	2.02	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:i:180:ASP:OD2	1:i:185:LEU:HD12	2.21	0.41
1:j:199:TYR:HE2	1:j:451:TRP:CD1	2.38	0.41
1:j:547:LEU:HD21	1:w:530:ASN:ND2	2.35	0.41
1:k:435:THR:HG22	1:k:435:THR:O	2.19	0.41
1:m:435:THR:O	1:m:435:THR:HG22	2.20	0.41
1:m:487:LEU:HD21	1:m:507:THR:HG22	2.01	0.41
1:n:139:LEU:HD11	1:n:454:ILE:HG22	2.01	0.41
1:n:192:MET:HE1	1:n:470:HIS:CG	2.55	0.41
1:o:110:TRP:O	1:o:209:GLN:NE2	2.53	0.41
1:o:140:GLU:HG3	1:o:520:LYS:CG	2.49	0.41
1:p:164:THR:HG21	1:q:157[B]:GLN:HG2	2.01	0.41
1:p:407:TRP:CD1	1:p:409:PRO:HD2	2.56	0.41
1:s:283:SER:O	1:s:287:THR:OG1	2.35	0.41
1:t:132:THR:O	1:t:524:ARG:HD2	2.21	0.41
1:t:319:ASP:HB3	1:t:320:PRO:HD3	2.01	0.41
1:u:199:TYR:HE2	1:u:451:TRP:CD1	2.38	0.41
1:u:386:ASP:OD1	1:u:387:ASP:N	2.48	0.41
1:u:547:LEU:HD21	1:l:530:ASN:ND2	2.35	0.41
1:v:110:TRP:O	1:v:209:GLN:NE2	2.53	0.41
1:v:530:ASN:ND2	1:y:547:LEU:HD21	2.35	0.41
1:w:223:ILE:HD13	1:y:430:GLN:NE2	2.35	0.41
1:w:319:ASP:HB3	1:w:320:PRO:HD3	2.01	0.41
1:w:435:THR:O	1:w:435:THR:HG22	2.20	0.41
1:x:199:TYR:HE2	1:x:451:TRP:CD1	2.38	0.41
1:x:431:ASP:HB2	1:y:340:ARG:HH12	1.84	0.41
1:y:132:THR:O	1:y:524:ARG:HD2	2.21	0.41
1:3:319:ASP:HB3	1:3:320:PRO:HD3	2.01	0.41
1:4:156:LYS:HB3	1:4:163:GLU:OE2	2.21	0.41
1:4:487:LEU:HD21	1:4:507:THR:HG22	2.01	0.41
1:6:386:ASP:OD1	1:6:387:ASP:N	2.48	0.41
1:8:280:HIS:HB3	1:8:568:THR:OG1	2.19	0.41
1:A:430:GLN:NE2	1:G:223:ILE:HD13	2.35	0.41
1:B:63:ARG:HD3	1:B:63:ARG:HA	1.80	0.41
1:B:180:ASP:OD2	1:B:185:LEU:HD12	2.21	0.41
1:B:310:ASN:HB2	1:J:379:PHE:HA	2.01	0.41
1:D:110:TRP:O	1:D:209:GLN:NE2	2.53	0.41
1:E:223:ILE:HD13	1:F:430:GLN:NE2	2.35	0.41
1:F:77:ILE:HG12	1:F:106:VAL:HB	2.02	0.41
1:G:77:ILE:HG12	1:G:106:VAL:HB	2.02	0.41
1:H:223:ILE:HD13	1:Y:430:GLN:NE2	2.35	0.41
1:H:379:PHE:HA	1:Y:310:ASN:HB2	2.01	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:319:ASP:HB3	1:I:320:PRO:HD3	2.01	0.41
1:I:487:LEU:HD21	1:I:507:THR:HG22	2.01	0.41
1:K:291:HIS:HE1	1:K:309:ILE:HD13	1.82	0.41
1:M:123:ASN:OD1	1:M:123:ASN:N	2.53	0.41
1:N:123:ASN:OD1	1:N:123:ASN:N	2.53	0.41
1:N:430:GLN:NE2	1:P:223:ILE:HD13	2.35	0.41
1:O:192:MET:HE1	1:O:470:HIS:CG	2.55	0.41
1:P:131:THR:HA	1:P:277:LEU:HD23	2.02	0.41
1:R:545:LYS:C	1:R:547:LEU:H	2.28	0.41
1:S:63:ARG:HA	1:S:63:ARG:HD3	1.80	0.41
1:T:291:HIS:HE1	1:T:309:ILE:HD13	1.82	0.41
1:U:192:MET:HE1	1:U:470:HIS:CG	2.55	0.41
1:U:435:THR:HG22	1:U:435:THR:O	2.19	0.41
1:V:180:ASP:OD2	1:V:185:LEU:HD12	2.21	0.41
1:V:199:TYR:HE2	1:V:451:TRP:CD1	2.38	0.41
1:W:139:LEU:HD11	1:W:454:ILE:HG22	2.01	0.41
1:Z:192:MET:HE1	1:Z:470:HIS:CG	2.55	0.41
1:Z:430:GLN:NE2	1:4:223:ILE:HD13	2.36	0.41
1:a:77:ILE:HG12	1:a:106:VAL:HB	2.02	0.41
1:a:156:LYS:HB3	1:a:163:GLU:OE2	2.21	0.41
1:a:487:LEU:HD21	1:a:507:THR:HG22	2.01	0.41
1:a:530:ASN:ND2	1:3:547:LEU:HD21	2.35	0.41
1:a:547:LEU:HD21	1:3:530:ASN:ND2	2.35	0.41
1:b:110:TRP:O	1:b:209:GLN:NE2	2.53	0.41
1:c:487:LEU:HD21	1:c:507:THR:HG22	2.01	0.41
1:e:132:THR:O	1:e:524:ARG:HD2	2.21	0.41
1:f:156:LYS:HB3	1:f:163:GLU:OE2	2.21	0.41
1:f:192:MET:HE1	1:f:470:HIS:CG	2.55	0.41
1:h:140:GLU:HG3	1:h:520:LYS:CG	2.49	0.41
1:h:156:LYS:HB3	1:h:163:GLU:OE2	2.21	0.41
1:h:407:TRP:CD1	1:h:409:PRO:HD2	2.56	0.41
1:i:547:LEU:HD21	1:l:530:ASN:ND2	2.35	0.41
1:l:280:HIS:HB3	1:l:568:THR:OG1	2.19	0.41
1:m:132:THR:O	1:m:524:ARG:HD2	2.20	0.41
1:o:547:LEU:HD21	1:6:530:ASN:ND2	2.35	0.41
1:q:430:GLN:NE2	1:r:223:ILE:HD13	2.36	0.41
1:q:435:THR:O	1:q:435:THR:HG22	2.19	0.41
1:r:430:GLN:NE2	1:s:223:ILE:HD13	2.36	0.41
1:u:180:ASP:OD2	1:u:185:LEU:HD12	2.21	0.41
1:u:319:ASP:HB3	1:u:320:PRO:HD3	2.01	0.41
1:v:132:THR:O	1:v:524:ARG:HD2	2.21	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:v:319:ASP:HB3	1:v:320:PRO:HD3	2.01	0.41
1:v:547:LEU:HD21	1:y:530:ASN:ND2	2.35	0.41
1:w:340:ARG:HH12	1:y:431:ASP:HB2	1.84	0.41
1:y:319:ASP:HB3	1:y:320:PRO:HD3	2.01	0.41
1:z:131:THR:HA	1:z:277:LEU:HD23	2.02	0.41
1:z:283:SER:O	1:z:287:THR:OG1	2.35	0.41
1:z:430:GLN:NE2	1:1:223:ILE:HD13	2.35	0.41
1:1:132:THR:O	1:1:524:ARG:HD2	2.20	0.41
1:1:435:THR:O	1:1:435:THR:HG22	2.19	0.41
1:2:132:THR:O	1:2:524:ARG:HD2	2.20	0.41
1:2:180:ASP:OD2	1:2:185:LEU:HD12	2.21	0.41
1:3:63:ARG:HD3	1:3:63:ARG:HA	1.80	0.41
1:3:192:MET:HE1	1:3:470:HIS:CG	2.55	0.41
1:5:131:THR:HA	1:5:277:LEU:HD23	2.02	0.41
1:5:430:GLN:NE2	1:6:223:ILE:HD13	2.35	0.41
1:6:310:ASN:HB2	1:7:379:PHE:HA	2.01	0.41
1:6:380:ASP:OD1	1:6:381:TYR:N	2.46	0.41
1:7:131:THR:HA	1:7:277:LEU:HD23	2.02	0.41
1:7:280:HIS:HB3	1:7:568:THR:OG1	2.19	0.41
1:7:371:GLN:OE1	1:7:371:GLN:N	2.51	0.41
1:7:533:ASN:HD21	1:8:537:ARG:NH2	2.16	0.41
1:C:180:ASP:OD2	1:C:185:LEU:HD12	2.21	0.41
1:C:223:ILE:HD13	1:M:430:GLN:NE2	2.36	0.41
1:D:254:ILE:HD12	1:E:42:TYR:CD2	2.55	0.41
1:D:407:TRP:CD1	1:D:409:PRO:HD2	2.56	0.41
1:E:77:ILE:HG12	1:E:106:VAL:HB	2.02	0.41
1:G:164:THR:HG21	1:W:157[B]:GLN:HG2	2.01	0.41
1:G:430:GLN:NE2	1:I:223:ILE:HD13	2.36	0.41
1:H:77:ILE:HG12	1:H:106:VAL:HB	2.02	0.41
1:I:131:THR:HA	1:I:277:LEU:HD23	2.02	0.41
1:J:132:THR:O	1:J:524:ARG:HD2	2.20	0.41
1:K:157[B]:GLN:HG2	1:7:164:THR:HG21	2.02	0.41
1:K:545:LYS:C	1:K:547:LEU:H	2.27	0.41
1:M:156:LYS:HB3	1:M:163:GLU:OE2	2.21	0.41
1:M:199:TYR:HE2	1:M:451:TRP:CD1	2.38	0.41
1:N:131:THR:HA	1:N:277:LEU:HD23	2.02	0.41
1:O:77:ILE:HG12	1:O:106:VAL:HB	2.02	0.41
1:O:319:ASP:HB3	1:O:320:PRO:HD3	2.01	0.41
1:P:457:LYS:HE3	1:P:457:LYS:HB2	1.92	0.41
1:Q:131:THR:HA	1:Q:277:LEU:HD23	2.02	0.41
1:Q:319:ASP:HB3	1:Q:320:PRO:HD3	2.01	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:R:487:LEU:HD21	1:R:507:THR:HG22	2.01	0.41
1:S:132:THR:O	1:S:524:ARG:HD2	2.21	0.41
1:T:545:LYS:C	1:T:547:LEU:H	2.27	0.41
1:V:223:ILE:HD13	1:X:430:GLN:NE2	2.36	0.41
1:W:407:TRP:CD1	1:W:409:PRO:HD2	2.56	0.41
1:Y:131:THR:HA	1:Y:277:LEU:HD23	2.02	0.41
1:Z:77:ILE:HG12	1:Z:106:VAL:HB	2.02	0.41
1:b:132:THR:O	1:b:524:ARG:HD2	2.21	0.41
1:b:407:TRP:CD1	1:b:409:PRO:HD2	2.56	0.41
1:c:156:LYS:HB3	1:c:163:GLU:OE2	2.21	0.41
1:d:77:ILE:HG12	1:d:106:VAL:HB	2.02	0.41
1:d:291:HIS:HE1	1:d:309:ILE:HD13	1.82	0.41
1:d:386:ASP:OD1	1:d:387:ASP:N	2.48	0.41
1:d:487:LEU:HD21	1:d:507:THR:HG22	2.01	0.41
1:e:407:TRP:CD1	1:e:409:PRO:HD2	2.56	0.41
1:f:39:THR:HG21	1:f:262:SER:CB	2.49	0.41
1:f:487:LEU:HD21	1:f:507:THR:HG22	2.01	0.41
1:g:487:LEU:HD21	1:g:507:THR:HG22	2.01	0.41
1:i:77:ILE:HG12	1:i:106:VAL:HB	2.02	0.41
1:j:131:THR:HA	1:j:277:LEU:HD23	2.02	0.41
1:k:77:ILE:HG12	1:k:106:VAL:HB	2.02	0.41
1:k:407:TRP:CD1	1:k:409:PRO:HD2	2.56	0.41
1:l:283:SER:O	1:l:287:THR:OG1	2.35	0.41
1:m:380:ASP:OD1	1:m:381:TYR:N	2.46	0.41
1:m:430:GLN:NE2	1:n:223:ILE:HD13	2.36	0.41
1:n:63:ARG:HD3	1:n:63:ARG:HA	1.80	0.41
1:n:319:ASP:HB3	1:n:320:PRO:HD3	2.01	0.41
1:o:156:LYS:HB3	1:o:163:GLU:OE2	2.21	0.41
1:o:199:TYR:HE2	1:o:451:TRP:CD1	2.38	0.41
1:o:407:TRP:CD1	1:o:409:PRO:HD2	2.56	0.41
1:o:536:GLY:O	1:o:537:ARG:HB3	2.20	0.41
1:p:77:ILE:HG12	1:p:106:VAL:HB	2.02	0.41
1:p:110:TRP:O	1:p:209:GLN:NE2	2.53	0.41
1:p:156:LYS:HB3	1:p:163:GLU:OE2	2.21	0.41
1:p:487:LEU:HD21	1:p:507:THR:HG22	2.01	0.41
1:q:132:THR:O	1:q:524:ARG:HD2	2.21	0.41
1:q:536:GLY:O	1:q:537:ARG:HB3	2.20	0.41
1:r:180:ASP:OD2	1:r:185:LEU:HD12	2.21	0.41
1:s:131:THR:HA	1:s:277:LEU:HD23	2.02	0.41
1:t:391:ARG:HA	1:t:391:ARG:HD3	1.88	0.41
1:u:431:ASP:HB2	1:v:340:ARG:HH12	1.84	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:x:156:LYS:HB3	1:x:163:GLU:OE2	2.21	0.41
1:x:386:ASP:OD1	1:x:387:ASP:N	2.48	0.41
1:y:140:GLU:HG3	1:y:520:LYS:CG	2.49	0.41
1:1:536:GLY:O	1:1:537:ARG:HB3	2.20	0.41
1:3:223:ILE:HD13	1:4:430:GLN:NE2	2.36	0.41
1:4:132:THR:O	1:4:524:ARG:HD2	2.20	0.41
1:5:199:TYR:HE2	1:5:451:TRP:CD1	2.38	0.41
1:7:110:TRP:O	1:7:209:GLN:NE2	2.53	0.41
1:7:180:ASP:OD2	1:7:185:LEU:HD12	2.21	0.41
1:7:547:LEU:HD21	1:8:530:ASN:ND2	2.35	0.41
1:B:487:LEU:HD21	1:B:507:THR:HG22	2.01	0.41
1:C:192:MET:HE1	1:C:470:HIS:CG	2.55	0.41
1:C:199:TYR:HE2	1:C:451:TRP:CD1	2.38	0.41
1:D:157[B]:GLN:HG2	1:E:164:THR:HG21	2.01	0.41
1:D:547:LEU:HD21	1:M:530:ASN:ND2	2.35	0.41
1:E:110:TRP:O	1:E:209:GLN:NE2	2.53	0.41
1:E:430:GLN:NE2	1:Q:223:ILE:HD13	2.36	0.41
1:G:42:TYR:CD2	1:W:254:ILE:HD12	2.55	0.41
1:H:156:LYS:HB3	1:H:163:GLU:OE2	2.21	0.41
1:I:110:TRP:O	1:I:209:GLN:NE2	2.53	0.41
1:I:140:GLU:HG3	1:I:520:LYS:CG	2.49	0.41
1:K:386:ASP:OD1	1:K:387:ASP:N	2.48	0.41
1:L:77:ILE:HG12	1:L:106:VAL:HB	2.02	0.41
1:L:283:SER:O	1:L:287:THR:OG1	2.35	0.41
1:L:407:TRP:CD1	1:L:409:PRO:HD2	2.56	0.41
1:L:435:THR:O	1:L:435:THR:HG22	2.19	0.41
1:M:69:MET:HG2	1:M:70:SER:N	2.33	0.41
1:N:132:THR:O	1:N:524:ARG:HD2	2.20	0.41
1:O:180:ASP:OD2	1:O:185:LEU:HD12	2.21	0.41
1:O:199:TYR:HE2	1:O:451:TRP:CD1	2.38	0.41
1:P:156:LYS:HB3	1:P:163:GLU:OE2	2.21	0.41
1:Q:110:TRP:O	1:Q:209:GLN:NE2	2.53	0.41
1:R:140:GLU:HG3	1:R:520:LYS:CG	2.49	0.41
1:R:156:LYS:HB3	1:R:163:GLU:OE2	2.21	0.41
1:R:310:ASN:HB2	1:S:379:PHE:HA	2.01	0.41
1:V:39:THR:HG21	1:V:262:SER:CB	2.50	0.41
1:V:380:ASP:OD1	1:V:381:TYR:N	2.46	0.41
1:X:123:ASN:OD1	1:X:123:ASN:N	2.53	0.41
1:X:156:LYS:HB3	1:X:163:GLU:OE2	2.21	0.41
1:Y:156:LYS:HB3	1:Y:163:GLU:OE2	2.21	0.41
1:Y:380:ASP:OD1	1:Y:381:TYR:N	2.46	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Z:157[B]:GLN:HG2	1:a:164:THR:HG21	2.01	0.41
1:a:110:TRP:O	1:a:209:GLN:NE2	2.53	0.41
1:a:291:HIS:HE1	1:a:309:ILE:HD13	1.82	0.41
1:a:407:TRP:CD1	1:a:409:PRO:HD2	2.56	0.41
1:c:407:TRP:CD1	1:c:409:PRO:HD2	2.56	0.41
1:d:110:TRP:O	1:d:209:GLN:NE2	2.53	0.41
1:d:319:ASP:HB3	1:d:320:PRO:HD3	2.01	0.41
1:d:530:ASN:ND2	1:n:547:LEU:HD21	2.35	0.41
1:d:547:LEU:HD21	1:n:530:ASN:ND2	2.35	0.41
1:f:140:GLU:HG3	1:f:520:LYS:CG	2.49	0.41
1:f:407:TRP:CD1	1:f:409:PRO:HD2	2.56	0.41
1:g:77:ILE:HG12	1:g:106:VAL:HB	2.02	0.41
1:g:110:TRP:O	1:g:209:GLN:NE2	2.53	0.41
1:g:156:LYS:HB3	1:g:163:GLU:OE2	2.21	0.41
1:g:536:GLY:O	1:g:537:ARG:HB3	2.20	0.41
1:i:110:TRP:O	1:i:209:GLN:NE2	2.53	0.41
1:i:371:GLN:OE1	1:i:371:GLN:N	2.51	0.41
1:i:379:PHE:HA	1:k:310:ASN:HB2	2.01	0.41
1:j:435:THR:O	1:j:435:THR:HG22	2.20	0.41
1:k:131:THR:HA	1:k:277:LEU:HD23	2.02	0.41
1:m:39:THR:HG21	1:m:262:SER:CB	2.50	0.41
1:r:110:TRP:O	1:r:209:GLN:NE2	2.53	0.41
1:r:132:THR:O	1:r:524:ARG:HD2	2.20	0.41
1:t:180:ASP:OD2	1:t:185:LEU:HD12	2.21	0.41
1:t:457:LYS:HE3	1:t:457:LYS:HB2	1.92	0.41
1:v:140:GLU:HG3	1:v:520:LYS:CG	2.49	0.41
1:w:180:ASP:OD2	1:w:185:LEU:HD12	2.21	0.41
1:w:283:SER:H	1:w:286:HIS:CD2	2.26	0.41
1:w:310:ASN:HB2	1:x:379:PHE:HA	2.01	0.41
1:x:319:ASP:HB3	1:x:320:PRO:HD3	2.01	0.41
1:z:340:ARG:HH12	1:2:431:ASP:HB2	1.85	0.41
1:2:110:TRP:O	1:2:209:GLN:NE2	2.53	0.41
1:3:69:MET:HG2	1:3:70:SER:N	2.33	0.41
1:4:139:LEU:HD11	1:4:454:ILE:HG22	2.01	0.41
1:4:380:ASP:OD1	1:4:381:TYR:N	2.46	0.41
1:6:407:TRP:CD1	1:6:409:PRO:HD2	2.56	0.41
1:7:77:ILE:HG12	1:7:106:VAL:HB	2.02	0.41
1:7:407:TRP:CD1	1:7:409:PRO:HD2	2.56	0.41
1:7:435:THR:O	1:7:435:THR:HG22	2.19	0.41
1:B:156:LYS:HB3	1:B:163:GLU:OE2	2.21	0.41
1:C:39:THR:HG21	1:C:262:SER:CB	2.50	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:279:TYR:OH	1:b:242:ASP:OD2	2.32	0.41
1:D:156:LYS:HB3	1:D:163:GLU:OE2	2.21	0.41
1:E:242:ASP:OD2	1:F:279:TYR:OH	2.31	0.41
1:E:283:SER:O	1:E:287:THR:OG1	2.35	0.41
1:F:42:TYR:CD2	1:G:254:ILE:HD12	2.55	0.41
1:F:223:ILE:HD13	1:Q:430:GLN:NE2	2.35	0.41
1:G:110:TRP:O	1:G:209:GLN:NE2	2.53	0.41
1:I:132:THR:O	1:I:524:ARG:HD2	2.20	0.41
1:I:536:GLY:O	1:I:537:ARG:HB3	2.20	0.41
1:J:63:ARG:HA	1:J:63:ARG:HD3	1.80	0.41
1:K:110:TRP:O	1:K:209:GLN:NE2	2.53	0.41
1:N:156:LYS:HB3	1:N:163:GLU:OE2	2.21	0.41
1:N:380:ASP:OD1	1:N:381:TYR:N	2.46	0.41
1:O:63:ARG:HD3	1:O:63:ARG:HA	1.80	0.41
1:P:283:SER:H	1:P:286:HIS:CD2	2.26	0.41
1:P:536:GLY:O	1:P:537:ARG:HB3	2.20	0.41
1:Q:132:THR:O	1:Q:524:ARG:HD2	2.20	0.41
1:Q:140:GLU:HG3	1:Q:520:LYS:CG	2.49	0.41
1:Q:386:ASP:OD1	1:Q:387:ASP:N	2.48	0.41
1:Q:391:ARG:HA	1:Q:391:ARG:HD3	1.88	0.41
1:S:69:MET:HG2	1:S:70:SER:N	2.33	0.41
1:S:156:LYS:HB3	1:S:163:GLU:OE2	2.21	0.41
1:T:157[B]:GLN:HG2	1:i:164:THR:HG21	2.02	0.41
1:U:77:ILE:HG12	1:U:106:VAL:HB	2.02	0.41
1:U:407:TRP:CD1	1:U:409:PRO:HD2	2.56	0.41
1:V:192:MET:HE1	1:V:470:HIS:CG	2.55	0.41
1:W:77:ILE:HG12	1:W:106:VAL:HB	2.02	0.41
1:W:156:LYS:HB3	1:W:163:GLU:OE2	2.21	0.41
1:X:199:TYR:HE2	1:X:451:TRP:CD1	2.38	0.41
1:Y:63:ARG:HD3	1:Y:63:ARG:HA	1.80	0.41
1:Y:132:THR:O	1:Y:524:ARG:HD2	2.20	0.41
1:Z:180:ASP:OD2	1:Z:185:LEU:HD12	2.21	0.41
1:Z:199:TYR:HE2	1:Z:451:TRP:CD1	2.38	0.41
1:c:39:THR:HG21	1:c:262:SER:CB	2.50	0.41
1:c:123:ASN:OD1	1:c:123:ASN:N	2.53	0.41
1:c:140:GLU:HG3	1:c:520:LYS:CG	2.49	0.41
1:d:407:TRP:CD1	1:d:409:PRO:HD2	2.56	0.41
1:f:157[B]:GLN:HG2	1:z:164:THR:HG21	2.01	0.41
1:f:380:ASP:OD1	1:f:381:TYR:N	2.46	0.41
1:i:280:HIS:HB3	1:i:568:THR:OG1	2.19	0.41
1:i:407:TRP:CD1	1:i:409:PRO:HD2	2.56	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:i:435:THR:O	1:i:435:THR:HG22	2.19	0.41
1:j:180:ASP:OD2	1:j:185:LEU:HD12	2.21	0.41
1:j:386:ASP:OD1	1:j:387:ASP:N	2.48	0.41
1:l:132:THR:O	1:l:524:ARG:HD2	2.20	0.41
1:l:180:ASP:OD2	1:l:185:LEU:HD12	2.21	0.41
1:m:139:LEU:HD11	1:m:454:ILE:HG22	2.01	0.41
1:m:180:ASP:OD2	1:m:185:LEU:HD12	2.21	0.41
1:n:69:MET:HG2	1:n:70:SER:N	2.33	0.41
1:p:530:ASN:ND2	1:s:547:LEU:HD21	2.36	0.41
1:p:536:GLY:O	1:p:537:ARG:HB3	2.20	0.41
1:s:407:TRP:CD1	1:s:409:PRO:HD2	2.56	0.41
1:t:310:ASN:HB2	1:u:379:PHE:HA	2.01	0.41
1:t:430:GLN:NE2	1:u:223:ILE:HD13	2.36	0.41
1:u:156:LYS:HB3	1:u:163:GLU:OE2	2.21	0.41
1:u:164:THR:HG21	1:2:157[B]:GLN:HG2	2.03	0.41
1:z:407:TRP:CD1	1:z:409:PRO:HD2	2.56	0.41
1:1:131:THR:HA	1:1:277:LEU:HD23	2.02	0.41
1:1:457:LYS:HE3	1:1:457:LYS:HB2	1.92	0.41
1:3:180:ASP:OD2	1:3:185:LEU:HD12	2.21	0.41
1:4:39:THR:HG21	1:4:262:SER:CB	2.49	0.41
1:5:386:ASP:OD1	1:5:387:ASP:N	2.48	0.41
1:6:69:MET:HG2	1:6:70:SER:N	2.33	0.41
1:6:77:ILE:HG12	1:6:106:VAL:HB	2.02	0.41
1:6:131:THR:HA	1:6:277:LEU:HD23	2.02	0.41
1:6:180:ASP:OD2	1:6:185:LEU:HD12	2.21	0.41
1:7:63:ARG:HD3	1:7:63:ARG:HA	1.80	0.41
1:8:180:ASP:OD2	1:8:185:LEU:HD12	2.21	0.41
1:8:283:SER:O	1:8:287:THR:OG1	2.35	0.41
1:A:42:TYR:CD2	1:E:254:ILE:HD12	2.55	0.41
1:A:108:THR:OG1	1:A:109:PRO:HD2	2.21	0.41
1:A:180:ASP:OD2	1:A:185:LEU:HD12	2.21	0.41
1:A:407:TRP:CD1	1:A:409:PRO:HD2	2.56	0.41
1:B:140:GLU:HG3	1:B:520:LYS:CG	2.49	0.41
1:C:69:MET:HG2	1:C:70:SER:N	2.33	0.41
1:C:132:THR:O	1:C:524:ARG:HD2	2.20	0.41
1:C:380:ASP:OD1	1:C:381:TYR:N	2.46	0.41
1:C:430:GLN:NE2	1:b:223:ILE:HD13	2.36	0.41
1:D:77:ILE:HG12	1:D:106:VAL:HB	2.02	0.41
1:D:199:TYR:HE2	1:D:451:TRP:CD1	2.38	0.41
1:E:407:TRP:CD1	1:E:409:PRO:HD2	2.56	0.41
1:F:108:THR:OG1	1:F:109:PRO:HD2	2.21	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:180:ASP:OD2	1:F:185:LEU:HD12	2.21	0.41
1:G:156:LYS:HB3	1:G:163:GLU:OE2	2.21	0.41
1:G:407:TRP:CD1	1:G:409:PRO:HD2	2.56	0.41
1:H:536:GLY:O	1:H:537:ARG:HB3	2.20	0.41
1:I:42:TYR:CD2	1:J:254:ILE:HD12	2.55	0.41
1:I:391:ARG:HA	1:I:391:ARG:HD3	1.89	0.41
1:I:407:TRP:CD1	1:I:409:PRO:HD2	2.56	0.41
1:J:69:MET:HG2	1:J:70:SER:N	2.33	0.41
1:J:156:LYS:HB3	1:J:163:GLU:OE2	2.21	0.41
1:J:164:THR:HG21	1:a:157[B]:GLN:HG2	2.02	0.41
1:K:131:THR:HA	1:K:277:LEU:HD23	2.02	0.41
1:L:164:THR:HG21	1:b:157[B]:GLN:HG2	2.02	0.41
1:L:199:TYR:HE2	1:L:451:TRP:CD1	2.38	0.41
1:M:108:THR:OG1	1:M:109:PRO:HD2	2.21	0.41
1:M:545:LYS:C	1:M:547:LEU:H	2.27	0.41
1:O:156:LYS:HB3	1:O:163:GLU:OE2	2.21	0.41
1:O:157[B]:GLN:HG2	1:d:164:THR:HG21	2.02	0.41
1:P:132:THR:O	1:P:524:ARG:HD2	2.20	0.41
1:Q:407:TRP:CD1	1:Q:409:PRO:HD2	2.56	0.41
1:Q:536:GLY:O	1:Q:537:ARG:HB3	2.20	0.41
1:T:110:TRP:O	1:T:209:GLN:NE2	2.53	0.41
1:T:131:THR:HA	1:T:277:LEU:HD23	2.02	0.41
1:T:265:SER:OG	1:T:266:GLY:N	2.49	0.41
1:V:132:THR:O	1:V:524:ARG:HD2	2.20	0.41
1:V:430:GLN:NE2	1:e:223:ILE:HD13	2.36	0.41
1:V:545:LYS:C	1:V:547:LEU:H	2.27	0.41
1:W:199:TYR:HE2	1:W:451:TRP:CD1	2.38	0.41
1:W:547:LEU:HD21	1:X:530:ASN:ND2	2.35	0.41
1:X:69:MET:HG2	1:X:70:SER:N	2.33	0.41
1:X:108:THR:OG1	1:X:109:PRO:HD2	2.21	0.41
1:X:407:TRP:CD1	1:X:409:PRO:HD2	2.56	0.41
1:Y:77:ILE:HG12	1:Y:106:VAL:HB	2.02	0.41
1:Z:63:ARG:HD3	1:Z:63:ARG:HA	1.80	0.41
1:Z:156:LYS:HB3	1:Z:163:GLU:OE2	2.21	0.41
1:a:131:THR:HA	1:a:277:LEU:HD23	2.02	0.41
1:a:132:THR:O	1:a:524:ARG:HD2	2.20	0.41
1:a:180:ASP:OD2	1:a:185:LEU:HD12	2.21	0.41
1:a:319:ASP:HB3	1:a:320:PRO:HD3	2.01	0.41
1:b:108:THR:OG1	1:b:109:PRO:HD2	2.21	0.41
1:b:140:GLU:HG3	1:b:520:LYS:CG	2.49	0.41
1:b:536:GLY:O	1:b:537:ARG:HB3	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:c:545:LYS:C	1:c:547:LEU:H	2.28	0.41
1:d:131:THR:HA	1:d:277:LEU:HD23	2.02	0.41
1:d:132:THR:O	1:d:524:ARG:HD2	2.20	0.41
1:d:180:ASP:OD2	1:d:185:LEU:HD12	2.21	0.41
1:d:545:LYS:C	1:d:547:LEU:H	2.28	0.41
1:e:108:THR:OG1	1:e:109:PRO:HD2	2.21	0.41
1:e:140:GLU:HG3	1:e:520:LYS:CG	2.49	0.41
1:e:536:GLY:O	1:e:537:ARG:HB3	2.20	0.41
1:f:123:ASN:OD1	1:f:123:ASN:N	2.53	0.41
1:i:39:THR:HG21	1:i:262:SER:CB	2.50	0.41
1:i:132:THR:O	1:i:524:ARG:HD2	2.20	0.41
1:i:199:TYR:HE2	1:i:451:TRP:CD1	2.38	0.41
1:j:283:SER:O	1:j:287:THR:OG1	2.35	0.41
1:j:407:TRP:CD1	1:j:409:PRO:HD2	2.56	0.41
1:k:69:MET:HG2	1:k:70:SER:N	2.33	0.41
1:k:156:LYS:HB3	1:k:163:GLU:OE2	2.21	0.41
1:l:156:LYS:HB3	1:l:163:GLU:OE2	2.21	0.41
1:m:530:ASN:ND2	1:r:547:LEU:HD21	2.36	0.41
1:n:157[B]:GLN:HG2	1:r:164:THR:HG21	2.02	0.41
1:n:180:ASP:OD2	1:n:185:LEU:HD12	2.21	0.41
1:o:487:LEU:HD21	1:o:507:THR:HG22	2.01	0.41
1:q:108:THR:OG1	1:q:109:PRO:HD2	2.21	0.41
1:q:131:THR:HA	1:q:277:LEU:HD23	2.02	0.41
1:q:223:ILE:HD13	1:s:430:GLN:NE2	2.35	0.41
1:r:199:TYR:HE2	1:r:451:TRP:CD1	2.38	0.41
1:s:108:THR:OG1	1:s:109:PRO:HD2	2.21	0.41
1:t:157[B]:GLN:HG2	1:y:164:THR:HG21	2.01	0.41
1:u:132:THR:O	1:u:524:ARG:HD2	2.20	0.41
1:v:63:ARG:HA	1:v:63:ARG:HD3	1.80	0.41
1:w:430:GLN:NE2	1:x:223:ILE:HD13	2.36	0.41
1:w:457:LYS:HE3	1:w:457:LYS:HB2	1.92	0.41
1:x:132:THR:O	1:x:524:ARG:HD2	2.20	0.41
1:y:156:LYS:HB3	1:y:163:GLU:OE2	2.21	0.41
1:y:536:GLY:O	1:y:537:ARG:HB3	2.20	0.41
1:z:63:ARG:HA	1:z:63:ARG:HD3	1.80	0.41
1:z:108:THR:OG1	1:z:109:PRO:HD2	2.21	0.41
1:1:108:THR:OG1	1:1:109:PRO:HD2	2.21	0.41
1:3:407:TRP:CD1	1:3:409:PRO:HD2	2.56	0.41
1:4:180:ASP:OD2	1:4:185:LEU:HD12	2.21	0.41
1:4:386:ASP:OD1	1:4:387:ASP:N	2.48	0.41
1:5:110:TRP:O	1:5:209:GLN:NE2	2.53	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:5:180:ASP:OD2	1:5:185:LEU:HD12	2.21	0.41
1:6:156:LYS:HB3	1:6:163:GLU:OE2	2.21	0.41
1:7:132:THR:O	1:7:524:ARG:HD2	2.20	0.41
1:7:156:LYS:HB3	1:7:163:GLU:OE2	2.21	0.41
1:7:199:TYR:HE2	1:7:451:TRP:CD1	2.38	0.41
1:7:525:LEU:HA	1:7:526:PRO:HD3	1.99	0.41
1:8:132:THR:O	1:8:524:ARG:HD2	2.21	0.41
1:8:156:LYS:HB3	1:8:163:GLU:OE2	2.21	0.41
1:B:430:GLN:NE2	1:J:223:ILE:HD13	2.36	0.41
1:E:131:THR:HA	1:E:277:LEU:HD23	2.02	0.41
1:E:156:LYS:HB3	1:E:163:GLU:OE2	2.21	0.41
1:G:131:THR:HA	1:G:277:LEU:HD23	2.02	0.41
1:G:283:SER:O	1:G:287:THR:OG1	2.35	0.41
1:H:132:THR:O	1:H:524:ARG:HD2	2.20	0.41
1:H:407:TRP:CD1	1:H:409:PRO:HD2	2.56	0.41
1:I:180:ASP:OD2	1:I:185:LEU:HD12	2.21	0.41
1:L:156:LYS:HB3	1:L:163:GLU:OE2	2.21	0.41
1:M:110:TRP:O	1:M:209:GLN:NE2	2.53	0.41
1:M:407:TRP:CD1	1:M:409:PRO:HD2	2.56	0.41
1:N:77:ILE:HG12	1:N:106:VAL:HB	2.02	0.41
1:N:108:THR:OG1	1:N:109:PRO:HD2	2.21	0.41
1:O:132:THR:O	1:O:524:ARG:HD2	2.21	0.41
1:O:435:THR:O	1:O:435:THR:HG22	2.20	0.41
1:P:407:TRP:CD1	1:P:409:PRO:HD2	2.56	0.41
1:Q:108:THR:OG1	1:Q:109:PRO:HD2	2.21	0.41
1:S:164:THR:HG21	1:d:157[B]:GLN:HG2	2.02	0.41
1:S:430:GLN:NE2	1:U:223:ILE:HD13	2.36	0.41
1:U:199:TYR:HE2	1:U:451:TRP:CD1	2.38	0.41
1:U:283:SER:O	1:U:287:THR:OG1	2.35	0.41
1:V:69:MET:HG2	1:V:70:SER:N	2.33	0.41
1:X:110:TRP:O	1:X:209:GLN:NE2	2.53	0.41
1:Y:108:THR:OG1	1:Y:109:PRO:HD2	2.21	0.41
1:Y:530:ASN:ND2	1:Z:547:LEU:HD21	2.35	0.41
1:Z:110:TRP:O	1:Z:209:GLN:NE2	2.53	0.41
1:Z:132:THR:O	1:Z:524:ARG:HD2	2.20	0.41
1:a:108:THR:OG1	1:a:109:PRO:HD2	2.21	0.41
1:b:156:LYS:HB3	1:b:163:GLU:OE2	2.21	0.41
1:b:180:ASP:OD2	1:b:185:LEU:HD12	2.21	0.41
1:b:199:TYR:HE2	1:b:451:TRP:CD1	2.38	0.41
1:d:108:THR:OG1	1:d:109:PRO:HD2	2.21	0.41
1:e:180:ASP:OD2	1:e:185:LEU:HD12	2.21	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:e:199:TYR:HE2	1:e:451:TRP:CD1	2.38	0.41
1:g:223:ILE:HD13	1:h:430:GLN:NE2	2.36	0.41
1:h:487:LEU:HD21	1:h:507:THR:HG22	2.01	0.41
1:j:110:TRP:O	1:j:209:GLN:NE2	2.53	0.41
1:k:180:ASP:OD2	1:k:185:LEU:HD12	2.21	0.41
1:l:157[B]:GLN:HG2	1:n:164:THR:HG21	2.01	0.41
1:m:386:ASP:OD1	1:m:387:ASP:N	2.48	0.41
1:n:407:TRP:CD1	1:n:409:PRO:HD2	2.56	0.41
1:o:77:ILE:HG12	1:o:106:VAL:HB	2.02	0.41
1:v:77:ILE:HG12	1:v:106:VAL:HB	2.02	0.41
1:y:77:ILE:HG12	1:y:106:VAL:HB	2.02	0.41
1:2:199:TYR:HE2	1:2:451:TRP:CD1	2.38	0.41
1:4:391:ARG:HD3	1:4:391:ARG:HA	1.89	0.41
1:5:108:THR:OG1	1:5:109:PRO:HD2	2.21	0.41
1:5:283:SER:O	1:5:287:THR:OG1	2.35	0.41
1:5:407:TRP:CD1	1:5:409:PRO:HD2	2.56	0.41
1:7:39:THR:HG21	1:7:262:SER:CB	2.50	0.41
1:C:77:ILE:HG12	1:C:106:VAL:HB	2.02	0.40
1:C:157[B]:GLN:HG2	1:D:164:THR:HG21	2.02	0.40
1:F:407:TRP:CD1	1:F:409:PRO:HD2	2.56	0.40
1:I:108:THR:OG1	1:I:109:PRO:HD2	2.21	0.40
1:I:386:ASP:OD1	1:I:387:ASP:N	2.48	0.40
1:J:77:ILE:HG12	1:J:106:VAL:HB	2.02	0.40
1:J:110:TRP:O	1:J:209:GLN:NE2	2.53	0.40
1:J:199:TYR:HE2	1:J:451:TRP:CD1	2.38	0.40
1:N:447:ILE:HD13	1:N:447:ILE:HG21	1.91	0.40
1:N:530:ASN:ND2	1:O:547:LEU:HD21	2.35	0.40
1:O:110:TRP:O	1:O:209:GLN:NE2	2.53	0.40
1:O:407:TRP:CD1	1:O:409:PRO:HD2	2.56	0.40
1:Q:42:TYR:CD2	1:S:254:ILE:HD12	2.55	0.40
1:R:407:TRP:CD1	1:R:409:PRO:HD2	2.56	0.40
1:S:180:ASP:OD2	1:S:185:LEU:HD12	2.21	0.40
1:T:132:THR:O	1:T:524:ARG:HD2	2.21	0.40
1:U:156:LYS:HB3	1:U:163:GLU:OE2	2.21	0.40
1:U:164:THR:HG21	1:e:157[B]:GLN:HG2	2.02	0.40
1:U:391:ARG:HD3	1:U:391:ARG:HA	1.89	0.40
1:X:545:LYS:C	1:X:547:LEU:H	2.28	0.40
1:Z:407:TRP:CD1	1:Z:409:PRO:HD2	2.56	0.40
1:a:545:LYS:C	1:a:547:LEU:H	2.28	0.40
1:c:157[B]:GLN:HG2	1:s:164:THR:HG21	2.02	0.40
1:c:380:ASP:OD1	1:c:381:TYR:N	2.46	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:g:530:ASN:ND2	1:z:547:LEU:HD21	2.36	0.40
1:h:77:ILE:HG12	1:h:106:VAL:HB	2.02	0.40
1:i:69:MET:HG2	1:i:70:SER:N	2.33	0.40
1:i:156:LYS:HB3	1:i:163:GLU:OE2	2.21	0.40
1:j:108:THR:OG1	1:j:109:PRO:HD2	2.21	0.40
1:k:108:THR:OG1	1:k:109:PRO:HD2	2.21	0.40
1:m:108:THR:OG1	1:m:109:PRO:HD2	2.21	0.40
1:o:131:THR:HA	1:o:277:LEU:HD23	2.02	0.40
1:o:430:GLN:NE2	1:p:223:ILE:HD13	2.36	0.40
1:q:386:ASP:OD1	1:q:387:ASP:N	2.48	0.40
1:r:516:LYS:HE3	1:r:516:LYS:HB3	1.91	0.40
1:t:69:MET:HG2	1:t:70:SER:N	2.33	0.40
1:t:108:THR:OG1	1:t:109:PRO:HD2	2.21	0.40
1:t:407:TRP:CD1	1:t:409:PRO:HD2	2.56	0.40
1:u:108:THR:OG1	1:u:109:PRO:HD2	2.21	0.40
1:v:156:LYS:HB3	1:v:163:GLU:OE2	2.21	0.40
1:v:164:THR:HG21	1:w:157[B]:GLN:HG2	2.02	0.40
1:v:283:SER:O	1:v:287:THR:OG1	2.35	0.40
1:w:108:THR:OG1	1:w:109:PRO:HD2	2.21	0.40
1:w:407:TRP:CD1	1:w:409:PRO:HD2	2.56	0.40
1:x:108:THR:OG1	1:x:109:PRO:HD2	2.21	0.40
1:1:156:LYS:HB3	1:1:163:GLU:OE2	2.21	0.40
1:8:291:HIS:HE1	1:8:309:ILE:HD13	1.82	0.40
1:A:131:THR:HA	1:A:277:LEU:HD23	2.02	0.40
1:A:317:ARG:CZ	1:A:320:PRO:HG2	2.52	0.40
1:A:530:ASN:ND2	1:F:547:LEU:HD21	2.35	0.40
1:B:407:TRP:CD1	1:B:409:PRO:HD2	2.56	0.40
1:D:317:ARG:CZ	1:D:320:PRO:HG2	2.52	0.40
1:F:317:ARG:CZ	1:F:320:PRO:HG2	2.52	0.40
1:G:132:THR:O	1:G:524:ARG:HD2	2.21	0.40
1:G:536:GLY:O	1:G:537:ARG:HB3	2.20	0.40
1:I:280:HIS:HB3	1:I:568:THR:OG1	2.19	0.40
1:J:180:ASP:OD2	1:J:185:LEU:HD12	2.21	0.40
1:J:407:TRP:CD1	1:J:409:PRO:HD2	2.56	0.40
1:J:430:GLN:NE2	1:L:223:ILE:HD13	2.36	0.40
1:J:516:LYS:HE3	1:J:516:LYS:HB3	1.91	0.40
1:K:132:THR:O	1:K:524:ARG:HD2	2.20	0.40
1:K:156:LYS:HB3	1:K:163:GLU:OE2	2.21	0.40
1:K:407:TRP:CD1	1:K:409:PRO:HD2	2.56	0.40
1:L:63:ARG:HD3	1:L:63:ARG:HA	1.80	0.40
1:M:223:ILE:HD13	1:b:430:GLN:NE2	2.35	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:317:ARG:CZ	1:M:320:PRO:HG2	2.52	0.40
1:N:180:ASP:OD2	1:N:185:LEU:HD12	2.21	0.40
1:N:547:LEU:HD21	1:O:530:ASN:ND2	2.35	0.40
1:O:391:ARG:HA	1:O:391:ARG:HD3	1.88	0.40
1:Q:280:HIS:HB3	1:Q:568:THR:OG1	2.19	0.40
1:R:430:GLN:NE2	1:S:223:ILE:HD13	2.36	0.40
1:S:110:TRP:O	1:S:209:GLN:NE2	2.53	0.40
1:S:199:TYR:HE2	1:S:451:TRP:CD1	2.38	0.40
1:T:407:TRP:CD1	1:T:409:PRO:HD2	2.56	0.40
1:V:157[B]:GLN:HG2	1:W:164:THR:HG21	2.02	0.40
1:W:317:ARG:CZ	1:W:320:PRO:HG2	2.52	0.40
1:X:140:GLU:HG3	1:X:520:LYS:CG	2.49	0.40
1:X:317:ARG:CZ	1:X:320:PRO:HG2	2.52	0.40
1:Y:407:TRP:CD1	1:Y:409:PRO:HD2	2.56	0.40
1:Z:435:THR:O	1:Z:435:THR:HG22	2.20	0.40
1:c:317:ARG:CZ	1:c:320:PRO:HG2	2.52	0.40
1:d:537:ARG:NH2	1:n:533:ASN:HD21	2.17	0.40
1:e:156:LYS:HB3	1:e:163:GLU:OE2	2.21	0.40
1:e:530:ASN:ND2	1:f:547:LEU:HD21	2.35	0.40
1:f:77:ILE:HG12	1:f:106:VAL:HB	2.02	0.40
1:h:131:THR:HA	1:h:277:LEU:HD23	2.02	0.40
1:j:516:LYS:HE3	1:j:516:LYS:HB3	1.91	0.40
1:l:108:THR:OG1	1:l:109:PRO:HD2	2.21	0.40
1:n:108:THR:OG1	1:n:109:PRO:HD2	2.21	0.40
1:q:156:LYS:HB3	1:q:163:GLU:OE2	2.21	0.40
1:q:457:LYS:HE3	1:q:457:LYS:HB2	1.92	0.40
1:q:547:LEU:HD21	1:x:530:ASN:ND2	2.36	0.40
1:u:317:ARG:CZ	1:u:320:PRO:HG2	2.52	0.40
1:u:407:TRP:CD1	1:u:409:PRO:HD2	2.56	0.40
1:x:317:ARG:CZ	1:x:320:PRO:HG2	2.52	0.40
1:x:407:TRP:CD1	1:x:409:PRO:HD2	2.56	0.40
1:y:283:SER:O	1:y:287:THR:OG1	2.35	0.40
1:1:77:ILE:HG12	1:1:106:VAL:HB	2.02	0.40
1:3:108:THR:OG1	1:3:109:PRO:HD2	2.21	0.40
1:3:164:THR:HG21	1:8:157[B]:GLN:HG2	2.02	0.40
1:8:108:THR:OG1	1:8:109:PRO:HD2	2.21	0.40
1:A:132:THR:O	1:A:524:ARG:HD2	2.20	0.40
1:B:132:THR:O	1:B:524:ARG:HD2	2.20	0.40
1:C:156:LYS:HB3	1:C:163:GLU:OE2	2.21	0.40
1:C:545:LYS:C	1:C:547:LEU:H	2.27	0.40
1:E:536:GLY:O	1:E:537:ARG:HB3	2.20	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:131:THR:HA	1:F:277:LEU:HD23	2.02	0.40
1:H:380:ASP:OD1	1:H:381:TYR:N	2.46	0.40
1:I:156:LYS:HB3	1:I:163:GLU:OE2	2.21	0.40
1:J:317:ARG:CZ	1:J:320:PRO:HG2	2.52	0.40
1:K:219:THR:OG1	1:K:234:VAL:HB	2.22	0.40
1:K:223:ILE:HD13	1:8:430:GLN:NE2	2.36	0.40
1:L:132:THR:O	1:L:524:ARG:HD2	2.21	0.40
1:N:407:TRP:CD1	1:N:409:PRO:HD2	2.56	0.40
1:Q:180:ASP:OD2	1:Q:185:LEU:HD12	2.21	0.40
1:S:77:ILE:HG12	1:S:106:VAL:HB	2.02	0.40
1:T:108:THR:OG1	1:T:109:PRO:HD2	2.21	0.40
1:T:180:ASP:OD2	1:T:185:LEU:HD12	2.21	0.40
1:T:219:THR:OG1	1:T:234:VAL:HB	2.22	0.40
1:T:223:ILE:HD13	1:l:430:GLN:NE2	2.36	0.40
1:U:132:THR:O	1:U:524:ARG:HD2	2.20	0.40
1:U:317:ARG:CZ	1:U:320:PRO:HG2	2.52	0.40
1:V:77:ILE:HG12	1:V:106:VAL:HB	2.02	0.40
1:V:156:LYS:HB3	1:V:163:GLU:OE2	2.21	0.40
1:V:242:ASP:OD2	1:X:279:TYR:OH	2.32	0.40
1:V:391:ARG:HA	1:V:391:ARG:HD3	1.89	0.40
1:V:457:LYS:HE3	1:V:457:LYS:HB2	1.93	0.40
1:W:131:THR:HA	1:W:277:LEU:HD23	2.02	0.40
1:W:132:THR:O	1:W:524:ARG:HD2	2.21	0.40
1:X:77:ILE:HG12	1:X:106:VAL:HB	2.02	0.40
1:X:223:ILE:HD13	1:e:430:GLN:NE2	2.35	0.40
1:X:380:ASP:OD1	1:X:381:TYR:N	2.46	0.40
1:Y:180:ASP:OD2	1:Y:185:LEU:HD12	2.21	0.40
1:Z:108:THR:OG1	1:Z:109:PRO:HD2	2.21	0.40
1:b:530:ASN:ND2	1:c:547:LEU:HD21	2.35	0.40
1:c:108:THR:OG1	1:c:109:PRO:HD2	2.21	0.40
1:c:132:THR:O	1:c:524:ARG:HD2	2.20	0.40
1:f:317:ARG:CZ	1:f:320:PRO:HG2	2.52	0.40
1:g:219:THR:OG1	1:g:234:VAL:HB	2.22	0.40
1:i:402:THR:C	1:i:404:GLN:H	2.30	0.40
1:l:407:TRP:CD1	1:l:409:PRO:HD2	2.56	0.40
1:p:219:THR:OG1	1:p:234:VAL:HB	2.22	0.40
1:s:536:GLY:O	1:s:537:ARG:HB3	2.20	0.40
1:v:407:TRP:CD1	1:v:409:PRO:HD2	2.56	0.40
1:y:407:TRP:CD1	1:y:409:PRO:HD2	2.56	0.40
1:z:536:GLY:O	1:z:537:ARG:HB3	2.20	0.40
1:1:386:ASP:OD1	1:1:387:ASP:N	2.48	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:4:108:THR:OG1	1:4:109:PRO:HD2	2.21	0.40
1:4:407:TRP:CD1	1:4:409:PRO:HD2	2.56	0.40
1:6:108:THR:OG1	1:6:109:PRO:HD2	2.21	0.40
1:6:283:SER:H	1:6:286:HIS:CD2	2.26	0.40
1:7:402:THR:C	1:7:404:GLN:H	2.30	0.40
1:7:530:ASN:ND2	1:8:547:LEU:HD21	2.35	0.40
1:B:219:THR:OG1	1:B:234:VAL:HB	2.22	0.40
1:B:386:ASP:OD1	1:B:387:ASP:N	2.48	0.40
1:B:547:LEU:HD21	1:I:530:ASN:ND2	2.36	0.40
1:C:317:ARG:CZ	1:C:320:PRO:HG2	2.52	0.40
1:D:108:THR:OG1	1:D:109:PRO:HD2	2.21	0.40
1:E:132:THR:O	1:E:524:ARG:HD2	2.21	0.40
1:F:391:ARG:HA	1:F:391:ARG:HD3	1.89	0.40
1:I:283:SER:H	1:I:286:HIS:CD2	2.26	0.40
1:K:108:THR:OG1	1:K:109:PRO:HD2	2.21	0.40
1:L:317:ARG:CZ	1:L:320:PRO:HG2	2.52	0.40
1:M:140:GLU:HG3	1:M:520:LYS:CG	2.49	0.40
1:Q:156:LYS:HB3	1:Q:163:GLU:OE2	2.21	0.40
1:R:386:ASP:OD1	1:R:387:ASP:N	2.48	0.40
1:S:108:THR:OG1	1:S:109:PRO:HD2	2.21	0.40
1:S:317:ARG:CZ	1:S:320:PRO:HG2	2.52	0.40
1:S:407:TRP:CD1	1:S:409:PRO:HD2	2.56	0.40
1:T:156:LYS:HB3	1:T:163:GLU:OE2	2.21	0.40
1:V:317:ARG:CZ	1:V:320:PRO:HG2	2.52	0.40
1:W:108:THR:OG1	1:W:109:PRO:HD2	2.21	0.40
1:X:180:ASP:OD2	1:X:185:LEU:HD12	2.21	0.40
1:a:537:ARG:NH2	1:3:533:ASN:HD21	2.17	0.40
1:f:108:THR:OG1	1:f:109:PRO:HD2	2.21	0.40
1:f:132:THR:O	1:f:524:ARG:HD2	2.20	0.40
1:k:283:SER:H	1:k:286:HIS:CD2	2.26	0.40
1:m:407:TRP:CD1	1:m:409:PRO:HD2	2.56	0.40
1:n:219:THR:OG1	1:n:234:VAL:HB	2.22	0.40
1:o:180:ASP:OD2	1:o:185:LEU:HD12	2.21	0.40
1:q:77:ILE:HG12	1:q:106:VAL:HB	2.02	0.40
1:q:402:THR:C	1:q:404:GLN:H	2.30	0.40
1:r:108:THR:OG1	1:r:109:PRO:HD2	2.21	0.40
1:r:156:LYS:HB3	1:r:163:GLU:OE2	2.21	0.40
1:t:156:LYS:HB3	1:t:163:GLU:OE2	2.21	0.40
1:v:180:ASP:OD2	1:v:185:LEU:HD12	2.21	0.40
1:w:69:MET:HG2	1:w:70:SER:N	2.33	0.40
1:w:317:ARG:CZ	1:w:320:PRO:HG2	2.52	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:z:406:ASN:CG	1:1:342:HIS:CE1	3.00	0.40
1:1:430:GLN:NE2	1:2:223:ILE:HG21	2.37	0.40
1:2:108:THR:OG1	1:2:109:PRO:HD2	2.21	0.40
1:2:530:ASN:ND2	1:4:547:LEU:HD21	2.37	0.40
1:5:77:ILE:HG12	1:5:106:VAL:HB	2.02	0.40
1:7:69:MET:HG2	1:7:70:SER:N	2.33	0.40
1:8:407:TRP:CD1	1:8:409:PRO:HD2	2.56	0.40
1:B:342:HIS:CE1	1:L:406:ASN:CG	3.00	0.40
1:D:131:THR:HA	1:D:277:LEU:HD23	2.02	0.40
1:D:132:THR:O	1:D:524:ARG:HD2	2.21	0.40
1:E:317:ARG:CZ	1:E:320:PRO:HG2	2.52	0.40
1:F:132:THR:O	1:F:524:ARG:HD2	2.21	0.40
1:G:180:ASP:OD2	1:G:185:LEU:HD12	2.21	0.40
1:G:317:ARG:CZ	1:G:320:PRO:HG2	2.52	0.40
1:H:219:THR:OG1	1:H:234:VAL:HB	2.22	0.40
1:K:180:ASP:OD2	1:K:185:LEU:HD12	2.21	0.40
1:K:317:ARG:CZ	1:K:320:PRO:HG2	2.52	0.40
1:K:430:GLN:NE2	1:a:223:ILE:HD13	2.36	0.40
1:M:77:ILE:HG12	1:M:106:VAL:HB	2.02	0.40
1:M:180:ASP:OD2	1:M:185:LEU:HD12	2.21	0.40
1:N:406:ASN:CG	1:P:342:HIS:CE1	3.00	0.40
1:O:108:THR:OG1	1:O:109:PRO:HD2	2.21	0.40
1:R:132:THR:O	1:R:524:ARG:HD2	2.20	0.40
1:R:342:HIS:CE1	1:U:406:ASN:CG	3.00	0.40
1:Y:547:LEU:HD21	1:Z:530:ASN:ND2	2.35	0.40
1:b:69:MET:HG2	1:b:70:SER:N	2.33	0.40
1:b:402:THR:C	1:b:404:GLN:H	2.30	0.40
1:b:452:GLY:HA2	1:b:470:HIS:CE1	2.57	0.40
1:c:77:ILE:HG12	1:c:106:VAL:HB	2.02	0.40
1:e:69:MET:HG2	1:e:70:SER:N	2.33	0.40
1:e:402:THR:C	1:e:404:GLN:H	2.30	0.40
1:e:452:GLY:HA2	1:e:470:HIS:CE1	2.57	0.40
1:f:223:ILE:HD13	1:g:430:GLN:NE2	2.36	0.40
1:f:402:THR:C	1:f:404:GLN:H	2.30	0.40
1:h:180:ASP:OD2	1:h:185:LEU:HD12	2.21	0.40
1:i:317:ARG:CZ	1:i:320:PRO:HG2	2.52	0.40
1:i:530:ASN:ND2	1:l:547:LEU:HD21	2.35	0.40
1:j:77:ILE:HG12	1:j:106:VAL:HB	2.02	0.40
1:q:407:TRP:CD1	1:q:409:PRO:HD2	2.56	0.40
1:r:219:THR:OG1	1:r:234:VAL:HB	2.22	0.40
1:t:317:ARG:CZ	1:t:320:PRO:HG2	2.52	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:u:291:HIS:HE1	1:u:309:ILE:HD13	1.82	0.40
1:u:430:GLN:NE2	1:v:223:ILE:HD13	2.36	0.40
1:v:317:ARG:CZ	1:v:320:PRO:HG2	2.52	0.40
1:w:219:THR:OG1	1:w:234:VAL:HB	2.22	0.40
1:x:140:GLU:HG3	1:x:520:LYS:CG	2.49	0.40
1:x:430:GLN:NE2	1:y:223:ILE:HD13	2.36	0.40
1:y:180:ASP:OD2	1:y:185:LEU:HD12	2.21	0.40
1:y:317:ARG:CZ	1:y:320:PRO:HG2	2.52	0.40
1:1:402:THR:C	1:1:404:GLN:H	2.30	0.40
1:1:407:TRP:CD1	1:1:409:PRO:HD2	2.56	0.40
1:2:156:LYS:HB3	1:2:163:GLU:OE2	2.21	0.40
1:2:407:TRP:CD1	1:2:409:PRO:HD2	2.56	0.40
1:3:219:THR:OG1	1:3:234:VAL:HB	2.22	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	536/707 (76%)	488 (91%)	48 (9%)	0	100	100
1	2	536/707 (76%)	488 (91%)	48 (9%)	0	100	100
1	3	536/707 (76%)	488 (91%)	48 (9%)	0	100	100
1	4	536/707 (76%)	488 (91%)	48 (9%)	0	100	100
1	5	536/707 (76%)	488 (91%)	48 (9%)	0	100	100
1	6	536/707 (76%)	488 (91%)	48 (9%)	0	100	100
1	7	536/707 (76%)	488 (91%)	48 (9%)	0	100	100
1	8	536/707 (76%)	488 (91%)	48 (9%)	0	100	100
1	A	536/707 (76%)	488 (91%)	48 (9%)	0	100	100
1	B	536/707 (76%)	488 (91%)	48 (9%)	0	100	100

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	C	536/707 (76%)	488 (91%)	48 (9%)	0	100	100
1	D	536/707 (76%)	488 (91%)	48 (9%)	0	100	100
1	E	536/707 (76%)	488 (91%)	48 (9%)	0	100	100
1	F	536/707 (76%)	488 (91%)	48 (9%)	0	100	100
1	G	536/707 (76%)	488 (91%)	48 (9%)	0	100	100
1	H	536/707 (76%)	488 (91%)	48 (9%)	0	100	100
1	I	536/707 (76%)	488 (91%)	48 (9%)	0	100	100
1	J	536/707 (76%)	488 (91%)	48 (9%)	0	100	100
1	K	536/707 (76%)	488 (91%)	48 (9%)	0	100	100
1	L	536/707 (76%)	488 (91%)	48 (9%)	0	100	100
1	M	536/707 (76%)	488 (91%)	48 (9%)	0	100	100
1	N	536/707 (76%)	488 (91%)	48 (9%)	0	100	100
1	O	536/707 (76%)	488 (91%)	48 (9%)	0	100	100
1	P	536/707 (76%)	488 (91%)	48 (9%)	0	100	100
1	Q	536/707 (76%)	488 (91%)	48 (9%)	0	100	100
1	R	536/707 (76%)	488 (91%)	48 (9%)	0	100	100
1	S	536/707 (76%)	488 (91%)	48 (9%)	0	100	100
1	T	536/707 (76%)	488 (91%)	48 (9%)	0	100	100
1	U	536/707 (76%)	488 (91%)	48 (9%)	0	100	100
1	V	536/707 (76%)	488 (91%)	48 (9%)	0	100	100
1	W	536/707 (76%)	488 (91%)	48 (9%)	0	100	100
1	X	536/707 (76%)	488 (91%)	48 (9%)	0	100	100
1	Y	536/707 (76%)	488 (91%)	48 (9%)	0	100	100
1	Z	536/707 (76%)	488 (91%)	48 (9%)	0	100	100
1	a	536/707 (76%)	488 (91%)	48 (9%)	0	100	100
1	b	536/707 (76%)	488 (91%)	48 (9%)	0	100	100
1	c	536/707 (76%)	488 (91%)	48 (9%)	0	100	100
1	d	536/707 (76%)	488 (91%)	48 (9%)	0	100	100
1	e	536/707 (76%)	488 (91%)	48 (9%)	0	100	100
1	f	536/707 (76%)	488 (91%)	48 (9%)	0	100	100
1	g	536/707 (76%)	488 (91%)	48 (9%)	0	100	100

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	h	536/707 (76%)	488 (91%)	48 (9%)	0	100	100
1	i	536/707 (76%)	488 (91%)	48 (9%)	0	100	100
1	j	536/707 (76%)	488 (91%)	48 (9%)	0	100	100
1	k	536/707 (76%)	488 (91%)	48 (9%)	0	100	100
1	l	536/707 (76%)	488 (91%)	48 (9%)	0	100	100
1	m	536/707 (76%)	488 (91%)	48 (9%)	0	100	100
1	n	536/707 (76%)	488 (91%)	48 (9%)	0	100	100
1	o	536/707 (76%)	488 (91%)	48 (9%)	0	100	100
1	p	536/707 (76%)	488 (91%)	48 (9%)	0	100	100
1	q	536/707 (76%)	488 (91%)	48 (9%)	0	100	100
1	r	536/707 (76%)	488 (91%)	48 (9%)	0	100	100
1	s	536/707 (76%)	488 (91%)	48 (9%)	0	100	100
1	t	536/707 (76%)	488 (91%)	48 (9%)	0	100	100
1	u	536/707 (76%)	488 (91%)	48 (9%)	0	100	100
1	v	536/707 (76%)	488 (91%)	48 (9%)	0	100	100
1	w	536/707 (76%)	488 (91%)	48 (9%)	0	100	100
1	x	536/707 (76%)	488 (91%)	48 (9%)	0	100	100
1	y	536/707 (76%)	488 (91%)	48 (9%)	0	100	100
1	z	536/707 (76%)	488 (91%)	48 (9%)	0	100	100
All	All	32160/42420 (76%)	29280 (91%)	2880 (9%)	0	100	100

There are no Ramachandran outliers to report.

5.3.2 Protein sidechains ⓘ

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

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

Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
1	1	474/609 (78%)	474 (100%)	0	100	100
1	2	474/609 (78%)	474 (100%)	0	100	100

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
1	3	474/609 (78%)	474 (100%)	0	100	100
1	4	474/609 (78%)	474 (100%)	0	100	100
1	5	474/609 (78%)	474 (100%)	0	100	100
1	6	474/609 (78%)	474 (100%)	0	100	100
1	7	474/609 (78%)	474 (100%)	0	100	100
1	8	474/609 (78%)	474 (100%)	0	100	100
1	A	474/609 (78%)	474 (100%)	0	100	100
1	B	474/609 (78%)	474 (100%)	0	100	100
1	C	474/609 (78%)	474 (100%)	0	100	100
1	D	474/609 (78%)	474 (100%)	0	100	100
1	E	474/609 (78%)	474 (100%)	0	100	100
1	F	474/609 (78%)	474 (100%)	0	100	100
1	G	474/609 (78%)	474 (100%)	0	100	100
1	H	474/609 (78%)	474 (100%)	0	100	100
1	I	474/609 (78%)	474 (100%)	0	100	100
1	J	474/609 (78%)	474 (100%)	0	100	100
1	K	474/609 (78%)	474 (100%)	0	100	100
1	L	474/609 (78%)	474 (100%)	0	100	100
1	M	474/609 (78%)	474 (100%)	0	100	100
1	N	474/609 (78%)	474 (100%)	0	100	100
1	O	474/609 (78%)	474 (100%)	0	100	100
1	P	474/609 (78%)	474 (100%)	0	100	100
1	Q	474/609 (78%)	474 (100%)	0	100	100
1	R	474/609 (78%)	474 (100%)	0	100	100
1	S	474/609 (78%)	474 (100%)	0	100	100
1	T	474/609 (78%)	474 (100%)	0	100	100
1	U	474/609 (78%)	474 (100%)	0	100	100
1	V	474/609 (78%)	474 (100%)	0	100	100
1	W	474/609 (78%)	474 (100%)	0	100	100
1	X	474/609 (78%)	474 (100%)	0	100	100
1	Y	474/609 (78%)	474 (100%)	0	100	100

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
1	Z	474/609 (78%)	474 (100%)	0	100	100
1	a	474/609 (78%)	474 (100%)	0	100	100
1	b	474/609 (78%)	474 (100%)	0	100	100
1	c	474/609 (78%)	474 (100%)	0	100	100
1	d	474/609 (78%)	474 (100%)	0	100	100
1	e	474/609 (78%)	474 (100%)	0	100	100
1	f	474/609 (78%)	474 (100%)	0	100	100
1	g	474/609 (78%)	474 (100%)	0	100	100
1	h	474/609 (78%)	474 (100%)	0	100	100
1	i	474/609 (78%)	474 (100%)	0	100	100
1	j	474/609 (78%)	474 (100%)	0	100	100
1	k	474/609 (78%)	474 (100%)	0	100	100
1	l	474/609 (78%)	474 (100%)	0	100	100
1	m	474/609 (78%)	474 (100%)	0	100	100
1	n	474/609 (78%)	474 (100%)	0	100	100
1	o	474/609 (78%)	474 (100%)	0	100	100
1	p	474/609 (78%)	474 (100%)	0	100	100
1	q	474/609 (78%)	474 (100%)	0	100	100
1	r	474/609 (78%)	474 (100%)	0	100	100
1	s	474/609 (78%)	474 (100%)	0	100	100
1	t	474/609 (78%)	474 (100%)	0	100	100
1	u	474/609 (78%)	474 (100%)	0	100	100
1	v	474/609 (78%)	474 (100%)	0	100	100
1	w	474/609 (78%)	474 (100%)	0	100	100
1	x	474/609 (78%)	474 (100%)	0	100	100
1	y	474/609 (78%)	474 (100%)	0	100	100
1	z	474/609 (78%)	474 (100%)	0	100	100
All	All	28440/36540 (78%)	28440 (100%)	0	100	100

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

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (1485) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	64	HIS
1	A	141	HIS
1	A	144	GLN
1	A	148	ASN
1	A	183	ASN
1	A	209	GLN
1	A	213	HIS
1	A	280	HIS
1	A	286	HIS
1	A	291	HIS
1	A	305	ASN
1	A	342	HIS
1	A	358	GLN
1	A	383	HIS
1	A	393	GLN
1	A	396	GLN
1	A	411	ASN
1	A	413	HIS
1	A	430	GLN
1	A	434	ASN
1	A	448	GLN
1	A	470	HIS
1	A	503	ASN
1	A	533	ASN
1	B	51	HIS
1	B	64	HIS
1	B	141	HIS
1	B	144	GLN
1	B	148	ASN
1	B	183	ASN
1	B	209	GLN
1	B	213	HIS
1	B	280	HIS
1	B	286	HIS
1	B	291	HIS
1	B	305	ASN
1	B	342	HIS
1	B	358	GLN
1	B	383	HIS
1	B	393	GLN
1	B	396	GLN
1	B	411	ASN
1	B	413	HIS

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Mol	Chain	Res	Type
1	B	430	GLN
1	B	434	ASN
1	B	448	GLN
1	B	470	HIS
1	B	503	ASN
1	B	533	ASN
1	C	64	HIS
1	C	141	HIS
1	C	144	GLN
1	C	148	ASN
1	C	183	ASN
1	C	209	GLN
1	C	213	HIS
1	C	280	HIS
1	C	286	HIS
1	C	291	HIS
1	C	305	ASN
1	C	342	HIS
1	C	383	HIS
1	C	393	GLN
1	C	396	GLN
1	C	411	ASN
1	C	413	HIS
1	C	430	GLN
1	C	434	ASN
1	C	448	GLN
1	C	470	HIS
1	C	503	ASN
1	C	533	ASN
1	D	64	HIS
1	D	141	HIS
1	D	144	GLN
1	D	148	ASN
1	D	183	ASN
1	D	209	GLN
1	D	213	HIS
1	D	280	HIS
1	D	286	HIS
1	D	291	HIS
1	D	305	ASN
1	D	342	HIS
1	D	358	GLN

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Mol	Chain	Res	Type
1	D	383	HIS
1	D	393	GLN
1	D	396	GLN
1	D	411	ASN
1	D	413	HIS
1	D	430	GLN
1	D	434	ASN
1	D	448	GLN
1	D	470	HIS
1	D	503	ASN
1	D	533	ASN
1	E	64	HIS
1	E	141	HIS
1	E	144	GLN
1	E	148	ASN
1	E	183	ASN
1	E	209	GLN
1	E	213	HIS
1	E	280	HIS
1	E	286	HIS
1	E	291	HIS
1	E	305	ASN
1	E	342	HIS
1	E	358	GLN
1	E	383	HIS
1	E	393	GLN
1	E	396	GLN
1	E	411	ASN
1	E	413	HIS
1	E	430	GLN
1	E	434	ASN
1	E	448	GLN
1	E	470	HIS
1	E	503	ASN
1	E	533	ASN
1	F	51	HIS
1	F	64	HIS
1	F	141	HIS
1	F	144	GLN
1	F	148	ASN
1	F	183	ASN
1	F	209	GLN

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Mol	Chain	Res	Type
1	F	213	HIS
1	F	280	HIS
1	F	286	HIS
1	F	291	HIS
1	F	305	ASN
1	F	342	HIS
1	F	358	GLN
1	F	383	HIS
1	F	393	GLN
1	F	396	GLN
1	F	411	ASN
1	F	413	HIS
1	F	430	GLN
1	F	434	ASN
1	F	448	GLN
1	F	470	HIS
1	F	503	ASN
1	F	533	ASN
1	G	51	HIS
1	G	64	HIS
1	G	141	HIS
1	G	144	GLN
1	G	148	ASN
1	G	183	ASN
1	G	209	GLN
1	G	213	HIS
1	G	280	HIS
1	G	286	HIS
1	G	291	HIS
1	G	305	ASN
1	G	342	HIS
1	G	358	GLN
1	G	383	HIS
1	G	393	GLN
1	G	396	GLN
1	G	411	ASN
1	G	413	HIS
1	G	430	GLN
1	G	434	ASN
1	G	448	GLN
1	G	470	HIS
1	G	503	ASN

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Mol	Chain	Res	Type
1	G	533	ASN
1	H	51	HIS
1	H	60	HIS
1	H	64	HIS
1	H	141	HIS
1	H	144	GLN
1	H	148	ASN
1	H	183	ASN
1	H	209	GLN
1	H	213	HIS
1	H	280	HIS
1	H	286	HIS
1	H	291	HIS
1	H	305	ASN
1	H	342	HIS
1	H	358	GLN
1	H	383	HIS
1	H	393	GLN
1	H	396	GLN
1	H	411	ASN
1	H	413	HIS
1	H	430	GLN
1	H	434	ASN
1	H	448	GLN
1	H	470	HIS
1	H	503	ASN
1	H	533	ASN
1	I	51	HIS
1	I	64	HIS
1	I	141	HIS
1	I	144	GLN
1	I	148	ASN
1	I	183	ASN
1	I	209	GLN
1	I	213	HIS
1	I	280	HIS
1	I	286	HIS
1	I	291	HIS
1	I	305	ASN
1	I	342	HIS
1	I	358	GLN
1	I	383	HIS

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Mol	Chain	Res	Type
1	I	393	GLN
1	I	396	GLN
1	I	411	ASN
1	I	413	HIS
1	I	430	GLN
1	I	434	ASN
1	I	448	GLN
1	I	470	HIS
1	I	503	ASN
1	I	533	ASN
1	J	51	HIS
1	J	64	HIS
1	J	141	HIS
1	J	144	GLN
1	J	148	ASN
1	J	183	ASN
1	J	209	GLN
1	J	213	HIS
1	J	280	HIS
1	J	286	HIS
1	J	291	HIS
1	J	305	ASN
1	J	342	HIS
1	J	358	GLN
1	J	383	HIS
1	J	393	GLN
1	J	396	GLN
1	J	411	ASN
1	J	413	HIS
1	J	430	GLN
1	J	434	ASN
1	J	448	GLN
1	J	470	HIS
1	J	503	ASN
1	J	533	ASN
1	K	51	HIS
1	K	60	HIS
1	K	64	HIS
1	K	141	HIS
1	K	144	GLN
1	K	148	ASN
1	K	183	ASN

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Mol	Chain	Res	Type
1	K	209	GLN
1	K	213	HIS
1	K	280	HIS
1	K	286	HIS
1	K	291	HIS
1	K	305	ASN
1	K	342	HIS
1	K	358	GLN
1	K	383	HIS
1	K	393	GLN
1	K	396	GLN
1	K	411	ASN
1	K	413	HIS
1	K	430	GLN
1	K	434	ASN
1	K	448	GLN
1	K	470	HIS
1	K	503	ASN
1	K	533	ASN
1	L	51	HIS
1	L	64	HIS
1	L	141	HIS
1	L	144	GLN
1	L	148	ASN
1	L	183	ASN
1	L	209	GLN
1	L	213	HIS
1	L	280	HIS
1	L	286	HIS
1	L	291	HIS
1	L	305	ASN
1	L	342	HIS
1	L	358	GLN
1	L	383	HIS
1	L	393	GLN
1	L	396	GLN
1	L	411	ASN
1	L	413	HIS
1	L	430	GLN
1	L	434	ASN
1	L	448	GLN
1	L	470	HIS

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Mol	Chain	Res	Type
1	L	503	ASN
1	L	533	ASN
1	M	51	HIS
1	M	64	HIS
1	M	141	HIS
1	M	144	GLN
1	M	148	ASN
1	M	183	ASN
1	M	209	GLN
1	M	213	HIS
1	M	280	HIS
1	M	286	HIS
1	M	291	HIS
1	M	305	ASN
1	M	342	HIS
1	M	358	GLN
1	M	383	HIS
1	M	393	GLN
1	M	396	GLN
1	M	411	ASN
1	M	413	HIS
1	M	430	GLN
1	M	434	ASN
1	M	448	GLN
1	M	470	HIS
1	M	503	ASN
1	M	533	ASN
1	N	51	HIS
1	N	64	HIS
1	N	141	HIS
1	N	144	GLN
1	N	148	ASN
1	N	183	ASN
1	N	209	GLN
1	N	213	HIS
1	N	280	HIS
1	N	286	HIS
1	N	291	HIS
1	N	305	ASN
1	N	342	HIS
1	N	358	GLN
1	N	383	HIS

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Mol	Chain	Res	Type
1	N	393	GLN
1	N	396	GLN
1	N	411	ASN
1	N	413	HIS
1	N	430	GLN
1	N	434	ASN
1	N	448	GLN
1	N	470	HIS
1	N	503	ASN
1	N	533	ASN
1	O	64	HIS
1	O	141	HIS
1	O	144	GLN
1	O	148	ASN
1	O	183	ASN
1	O	209	GLN
1	O	213	HIS
1	O	280	HIS
1	O	286	HIS
1	O	291	HIS
1	O	305	ASN
1	O	342	HIS
1	O	358	GLN
1	O	383	HIS
1	O	393	GLN
1	O	396	GLN
1	O	411	ASN
1	O	413	HIS
1	O	430	GLN
1	O	434	ASN
1	O	448	GLN
1	O	470	HIS
1	O	503	ASN
1	O	533	ASN
1	P	51	HIS
1	P	60	HIS
1	P	64	HIS
1	P	105	GLN
1	P	141	HIS
1	P	144	GLN
1	P	148	ASN
1	P	183	ASN

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Mol	Chain	Res	Type
1	P	209	GLN
1	P	213	HIS
1	P	280	HIS
1	P	286	HIS
1	P	291	HIS
1	P	305	ASN
1	P	342	HIS
1	P	358	GLN
1	P	383	HIS
1	P	393	GLN
1	P	396	GLN
1	P	411	ASN
1	P	413	HIS
1	P	430	GLN
1	P	434	ASN
1	P	448	GLN
1	P	470	HIS
1	P	503	ASN
1	P	533	ASN
1	Q	51	HIS
1	Q	64	HIS
1	Q	141	HIS
1	Q	144	GLN
1	Q	148	ASN
1	Q	183	ASN
1	Q	209	GLN
1	Q	213	HIS
1	Q	280	HIS
1	Q	286	HIS
1	Q	291	HIS
1	Q	305	ASN
1	Q	342	HIS
1	Q	358	GLN
1	Q	383	HIS
1	Q	393	GLN
1	Q	396	GLN
1	Q	411	ASN
1	Q	413	HIS
1	Q	430	GLN
1	Q	434	ASN
1	Q	448	GLN
1	Q	470	HIS

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Mol	Chain	Res	Type
1	Q	503	ASN
1	Q	533	ASN
1	R	64	HIS
1	R	141	HIS
1	R	144	GLN
1	R	148	ASN
1	R	183	ASN
1	R	209	GLN
1	R	213	HIS
1	R	280	HIS
1	R	286	HIS
1	R	291	HIS
1	R	305	ASN
1	R	342	HIS
1	R	358	GLN
1	R	383	HIS
1	R	393	GLN
1	R	396	GLN
1	R	411	ASN
1	R	413	HIS
1	R	430	GLN
1	R	434	ASN
1	R	448	GLN
1	R	470	HIS
1	R	503	ASN
1	R	533	ASN
1	S	51	HIS
1	S	64	HIS
1	S	141	HIS
1	S	144	GLN
1	S	148	ASN
1	S	183	ASN
1	S	209	GLN
1	S	213	HIS
1	S	280	HIS
1	S	286	HIS
1	S	291	HIS
1	S	305	ASN
1	S	342	HIS
1	S	358	GLN
1	S	383	HIS
1	S	393	GLN

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Mol	Chain	Res	Type
1	S	396	GLN
1	S	411	ASN
1	S	413	HIS
1	S	430	GLN
1	S	434	ASN
1	S	448	GLN
1	S	470	HIS
1	S	503	ASN
1	S	533	ASN
1	T	51	HIS
1	T	60	HIS
1	T	64	HIS
1	T	141	HIS
1	T	144	GLN
1	T	148	ASN
1	T	183	ASN
1	T	209	GLN
1	T	213	HIS
1	T	280	HIS
1	T	286	HIS
1	T	291	HIS
1	T	305	ASN
1	T	342	HIS
1	T	358	GLN
1	T	383	HIS
1	T	393	GLN
1	T	396	GLN
1	T	411	ASN
1	T	413	HIS
1	T	430	GLN
1	T	434	ASN
1	T	448	GLN
1	T	470	HIS
1	T	503	ASN
1	T	533	ASN
1	U	51	HIS
1	U	64	HIS
1	U	141	HIS
1	U	144	GLN
1	U	148	ASN
1	U	183	ASN
1	U	209	GLN

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Mol	Chain	Res	Type
1	U	213	HIS
1	U	280	HIS
1	U	286	HIS
1	U	291	HIS
1	U	305	ASN
1	U	342	HIS
1	U	358	GLN
1	U	383	HIS
1	U	393	GLN
1	U	396	GLN
1	U	411	ASN
1	U	413	HIS
1	U	430	GLN
1	U	434	ASN
1	U	448	GLN
1	U	470	HIS
1	U	503	ASN
1	U	533	ASN
1	V	64	HIS
1	V	141	HIS
1	V	144	GLN
1	V	148	ASN
1	V	183	ASN
1	V	209	GLN
1	V	213	HIS
1	V	280	HIS
1	V	286	HIS
1	V	291	HIS
1	V	305	ASN
1	V	342	HIS
1	V	383	HIS
1	V	393	GLN
1	V	396	GLN
1	V	411	ASN
1	V	413	HIS
1	V	430	GLN
1	V	434	ASN
1	V	448	GLN
1	V	470	HIS
1	V	503	ASN
1	V	533	ASN
1	W	64	HIS

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Mol	Chain	Res	Type
1	W	141	HIS
1	W	144	GLN
1	W	148	ASN
1	W	183	ASN
1	W	209	GLN
1	W	213	HIS
1	W	280	HIS
1	W	286	HIS
1	W	291	HIS
1	W	305	ASN
1	W	342	HIS
1	W	358	GLN
1	W	383	HIS
1	W	393	GLN
1	W	396	GLN
1	W	411	ASN
1	W	413	HIS
1	W	430	GLN
1	W	434	ASN
1	W	448	GLN
1	W	470	HIS
1	W	503	ASN
1	W	533	ASN
1	X	51	HIS
1	X	64	HIS
1	X	141	HIS
1	X	144	GLN
1	X	148	ASN
1	X	183	ASN
1	X	209	GLN
1	X	213	HIS
1	X	280	HIS
1	X	286	HIS
1	X	291	HIS
1	X	305	ASN
1	X	342	HIS
1	X	358	GLN
1	X	383	HIS
1	X	393	GLN
1	X	396	GLN
1	X	411	ASN
1	X	413	HIS

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Mol	Chain	Res	Type
1	X	430	GLN
1	X	434	ASN
1	X	448	GLN
1	X	470	HIS
1	X	503	ASN
1	X	533	ASN
1	Y	51	HIS
1	Y	64	HIS
1	Y	141	HIS
1	Y	144	GLN
1	Y	148	ASN
1	Y	183	ASN
1	Y	209	GLN
1	Y	213	HIS
1	Y	280	HIS
1	Y	286	HIS
1	Y	291	HIS
1	Y	305	ASN
1	Y	342	HIS
1	Y	383	HIS
1	Y	393	GLN
1	Y	396	GLN
1	Y	411	ASN
1	Y	413	HIS
1	Y	430	GLN
1	Y	434	ASN
1	Y	448	GLN
1	Y	470	HIS
1	Y	503	ASN
1	Y	533	ASN
1	Z	60	HIS
1	Z	64	HIS
1	Z	141	HIS
1	Z	144	GLN
1	Z	148	ASN
1	Z	183	ASN
1	Z	209	GLN
1	Z	213	HIS
1	Z	280	HIS
1	Z	286	HIS
1	Z	291	HIS
1	Z	305	ASN

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Mol	Chain	Res	Type
1	Z	342	HIS
1	Z	358	GLN
1	Z	383	HIS
1	Z	393	GLN
1	Z	396	GLN
1	Z	411	ASN
1	Z	413	HIS
1	Z	430	GLN
1	Z	434	ASN
1	Z	448	GLN
1	Z	470	HIS
1	Z	503	ASN
1	Z	533	ASN
1	a	51	HIS
1	a	64	HIS
1	a	141	HIS
1	a	144	GLN
1	a	148	ASN
1	a	183	ASN
1	a	209	GLN
1	a	213	HIS
1	a	280	HIS
1	a	286	HIS
1	a	291	HIS
1	a	305	ASN
1	a	342	HIS
1	a	358	GLN
1	a	383	HIS
1	a	393	GLN
1	a	396	GLN
1	a	411	ASN
1	a	413	HIS
1	a	430	GLN
1	a	434	ASN
1	a	448	GLN
1	a	470	HIS
1	a	503	ASN
1	a	533	ASN
1	b	51	HIS
1	b	64	HIS
1	b	141	HIS
1	b	144	GLN

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Mol	Chain	Res	Type
1	b	148	ASN
1	b	183	ASN
1	b	209	GLN
1	b	213	HIS
1	b	280	HIS
1	b	286	HIS
1	b	291	HIS
1	b	305	ASN
1	b	342	HIS
1	b	358	GLN
1	b	383	HIS
1	b	393	GLN
1	b	396	GLN
1	b	411	ASN
1	b	413	HIS
1	b	430	GLN
1	b	434	ASN
1	b	448	GLN
1	b	470	HIS
1	b	503	ASN
1	b	533	ASN
1	c	64	HIS
1	c	141	HIS
1	c	144	GLN
1	c	148	ASN
1	c	183	ASN
1	c	209	GLN
1	c	213	HIS
1	c	280	HIS
1	c	286	HIS
1	c	291	HIS
1	c	305	ASN
1	c	342	HIS
1	c	358	GLN
1	c	383	HIS
1	c	393	GLN
1	c	396	GLN
1	c	411	ASN
1	c	413	HIS
1	c	430	GLN
1	c	434	ASN
1	c	448	GLN

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Mol	Chain	Res	Type
1	c	470	HIS
1	c	503	ASN
1	c	533	ASN
1	d	51	HIS
1	d	64	HIS
1	d	141	HIS
1	d	144	GLN
1	d	148	ASN
1	d	183	ASN
1	d	209	GLN
1	d	213	HIS
1	d	280	HIS
1	d	286	HIS
1	d	291	HIS
1	d	305	ASN
1	d	342	HIS
1	d	358	GLN
1	d	383	HIS
1	d	393	GLN
1	d	396	GLN
1	d	411	ASN
1	d	413	HIS
1	d	430	GLN
1	d	434	ASN
1	d	448	GLN
1	d	470	HIS
1	d	503	ASN
1	d	533	ASN
1	e	51	HIS
1	e	64	HIS
1	e	141	HIS
1	e	144	GLN
1	e	148	ASN
1	e	183	ASN
1	e	209	GLN
1	e	213	HIS
1	e	280	HIS
1	e	286	HIS
1	e	291	HIS
1	e	305	ASN
1	e	342	HIS
1	e	358	GLN

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Mol	Chain	Res	Type
1	e	383	HIS
1	e	393	GLN
1	e	396	GLN
1	e	411	ASN
1	e	413	HIS
1	e	430	GLN
1	e	434	ASN
1	e	448	GLN
1	e	470	HIS
1	e	503	ASN
1	e	533	ASN
1	f	64	HIS
1	f	141	HIS
1	f	144	GLN
1	f	148	ASN
1	f	183	ASN
1	f	209	GLN
1	f	213	HIS
1	f	280	HIS
1	f	286	HIS
1	f	291	HIS
1	f	305	ASN
1	f	342	HIS
1	f	358	GLN
1	f	383	HIS
1	f	393	GLN
1	f	396	GLN
1	f	411	ASN
1	f	413	HIS
1	f	430	GLN
1	f	434	ASN
1	f	448	GLN
1	f	470	HIS
1	f	503	ASN
1	f	533	ASN
1	g	51	HIS
1	g	64	HIS
1	g	141	HIS
1	g	144	GLN
1	g	148	ASN
1	g	183	ASN
1	g	209	GLN

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Mol	Chain	Res	Type
1	g	213	HIS
1	g	280	HIS
1	g	286	HIS
1	g	291	HIS
1	g	305	ASN
1	g	342	HIS
1	g	358	GLN
1	g	383	HIS
1	g	393	GLN
1	g	396	GLN
1	g	411	ASN
1	g	413	HIS
1	g	430	GLN
1	g	434	ASN
1	g	448	GLN
1	g	470	HIS
1	g	503	ASN
1	g	533	ASN
1	h	51	HIS
1	h	64	HIS
1	h	105	GLN
1	h	141	HIS
1	h	144	GLN
1	h	148	ASN
1	h	183	ASN
1	h	209	GLN
1	h	213	HIS
1	h	280	HIS
1	h	286	HIS
1	h	291	HIS
1	h	305	ASN
1	h	342	HIS
1	h	358	GLN
1	h	383	HIS
1	h	393	GLN
1	h	396	GLN
1	h	411	ASN
1	h	413	HIS
1	h	430	GLN
1	h	434	ASN
1	h	448	GLN
1	h	470	HIS

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Mol	Chain	Res	Type
1	h	503	ASN
1	h	533	ASN
1	i	51	HIS
1	i	64	HIS
1	i	141	HIS
1	i	144	GLN
1	i	148	ASN
1	i	183	ASN
1	i	209	GLN
1	i	213	HIS
1	i	280	HIS
1	i	286	HIS
1	i	291	HIS
1	i	305	ASN
1	i	342	HIS
1	i	358	GLN
1	i	383	HIS
1	i	393	GLN
1	i	396	GLN
1	i	411	ASN
1	i	413	HIS
1	i	430	GLN
1	i	434	ASN
1	i	448	GLN
1	i	470	HIS
1	i	503	ASN
1	i	533	ASN
1	j	51	HIS
1	j	64	HIS
1	j	141	HIS
1	j	144	GLN
1	j	148	ASN
1	j	183	ASN
1	j	209	GLN
1	j	213	HIS
1	j	280	HIS
1	j	286	HIS
1	j	291	HIS
1	j	305	ASN
1	j	342	HIS
1	j	358	GLN
1	j	383	HIS

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Mol	Chain	Res	Type
1	j	393	GLN
1	j	396	GLN
1	j	411	ASN
1	j	413	HIS
1	j	430	GLN
1	j	434	ASN
1	j	448	GLN
1	j	470	HIS
1	j	503	ASN
1	j	533	ASN
1	k	51	HIS
1	k	64	HIS
1	k	141	HIS
1	k	144	GLN
1	k	148	ASN
1	k	183	ASN
1	k	209	GLN
1	k	213	HIS
1	k	280	HIS
1	k	286	HIS
1	k	291	HIS
1	k	305	ASN
1	k	342	HIS
1	k	358	GLN
1	k	383	HIS
1	k	393	GLN
1	k	396	GLN
1	k	411	ASN
1	k	413	HIS
1	k	430	GLN
1	k	434	ASN
1	k	448	GLN
1	k	470	HIS
1	k	503	ASN
1	k	533	ASN
1	l	60	HIS
1	l	64	HIS
1	l	141	HIS
1	l	144	GLN
1	l	148	ASN
1	l	183	ASN
1	l	209	GLN

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Mol	Chain	Res	Type
1	l	213	HIS
1	l	280	HIS
1	l	286	HIS
1	l	291	HIS
1	l	305	ASN
1	l	342	HIS
1	l	358	GLN
1	l	383	HIS
1	l	393	GLN
1	l	396	GLN
1	l	411	ASN
1	l	413	HIS
1	l	430	GLN
1	l	434	ASN
1	l	448	GLN
1	l	470	HIS
1	l	503	ASN
1	l	533	ASN
1	m	51	HIS
1	m	60	HIS
1	m	64	HIS
1	m	141	HIS
1	m	144	GLN
1	m	148	ASN
1	m	183	ASN
1	m	209	GLN
1	m	213	HIS
1	m	280	HIS
1	m	286	HIS
1	m	291	HIS
1	m	305	ASN
1	m	342	HIS
1	m	358	GLN
1	m	383	HIS
1	m	393	GLN
1	m	396	GLN
1	m	411	ASN
1	m	413	HIS
1	m	430	GLN
1	m	434	ASN
1	m	448	GLN
1	m	470	HIS

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Mol	Chain	Res	Type
1	m	503	ASN
1	m	533	ASN
1	n	51	HIS
1	n	64	HIS
1	n	141	HIS
1	n	144	GLN
1	n	148	ASN
1	n	183	ASN
1	n	209	GLN
1	n	213	HIS
1	n	280	HIS
1	n	286	HIS
1	n	291	HIS
1	n	305	ASN
1	n	342	HIS
1	n	358	GLN
1	n	383	HIS
1	n	393	GLN
1	n	396	GLN
1	n	411	ASN
1	n	413	HIS
1	n	430	GLN
1	n	434	ASN
1	n	448	GLN
1	n	470	HIS
1	n	503	ASN
1	n	533	ASN
1	o	51	HIS
1	o	64	HIS
1	o	141	HIS
1	o	144	GLN
1	o	148	ASN
1	o	183	ASN
1	o	209	GLN
1	o	213	HIS
1	o	280	HIS
1	o	286	HIS
1	o	291	HIS
1	o	305	ASN
1	o	342	HIS
1	o	358	GLN
1	o	383	HIS

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Mol	Chain	Res	Type
1	o	393	GLN
1	o	396	GLN
1	o	411	ASN
1	o	413	HIS
1	o	430	GLN
1	o	434	ASN
1	o	448	GLN
1	o	470	HIS
1	o	503	ASN
1	o	533	ASN
1	p	51	HIS
1	p	64	HIS
1	p	141	HIS
1	p	144	GLN
1	p	148	ASN
1	p	183	ASN
1	p	209	GLN
1	p	213	HIS
1	p	280	HIS
1	p	286	HIS
1	p	291	HIS
1	p	305	ASN
1	p	342	HIS
1	p	358	GLN
1	p	383	HIS
1	p	393	GLN
1	p	396	GLN
1	p	411	ASN
1	p	413	HIS
1	p	430	GLN
1	p	434	ASN
1	p	448	GLN
1	p	470	HIS
1	p	503	ASN
1	p	533	ASN
1	q	64	HIS
1	q	141	HIS
1	q	144	GLN
1	q	148	ASN
1	q	209	GLN
1	q	213	HIS
1	q	280	HIS

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Mol	Chain	Res	Type
1	q	286	HIS
1	q	291	HIS
1	q	305	ASN
1	q	342	HIS
1	q	358	GLN
1	q	383	HIS
1	q	393	GLN
1	q	396	GLN
1	q	411	ASN
1	q	413	HIS
1	q	430	GLN
1	q	434	ASN
1	q	448	GLN
1	q	470	HIS
1	q	503	ASN
1	q	533	ASN
1	r	64	HIS
1	r	141	HIS
1	r	144	GLN
1	r	148	ASN
1	r	183	ASN
1	r	209	GLN
1	r	213	HIS
1	r	280	HIS
1	r	286	HIS
1	r	291	HIS
1	r	305	ASN
1	r	342	HIS
1	r	383	HIS
1	r	393	GLN
1	r	396	GLN
1	r	411	ASN
1	r	413	HIS
1	r	430	GLN
1	r	434	ASN
1	r	448	GLN
1	r	470	HIS
1	r	503	ASN
1	r	533	ASN
1	s	64	HIS
1	s	141	HIS
1	s	144	GLN

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Mol	Chain	Res	Type
1	s	148	ASN
1	s	183	ASN
1	s	209	GLN
1	s	213	HIS
1	s	280	HIS
1	s	286	HIS
1	s	291	HIS
1	s	305	ASN
1	s	342	HIS
1	s	358	GLN
1	s	383	HIS
1	s	393	GLN
1	s	396	GLN
1	s	411	ASN
1	s	413	HIS
1	s	430	GLN
1	s	434	ASN
1	s	448	GLN
1	s	470	HIS
1	s	503	ASN
1	s	533	ASN
1	t	51	HIS
1	t	64	HIS
1	t	141	HIS
1	t	144	GLN
1	t	148	ASN
1	t	183	ASN
1	t	209	GLN
1	t	213	HIS
1	t	280	HIS
1	t	286	HIS
1	t	291	HIS
1	t	305	ASN
1	t	342	HIS
1	t	383	HIS
1	t	393	GLN
1	t	396	GLN
1	t	411	ASN
1	t	413	HIS
1	t	430	GLN
1	t	434	ASN
1	t	448	GLN

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Mol	Chain	Res	Type
1	t	470	HIS
1	t	503	ASN
1	t	533	ASN
1	u	64	HIS
1	u	141	HIS
1	u	144	GLN
1	u	148	ASN
1	u	183	ASN
1	u	209	GLN
1	u	213	HIS
1	u	280	HIS
1	u	286	HIS
1	u	291	HIS
1	u	305	ASN
1	u	342	HIS
1	u	358	GLN
1	u	383	HIS
1	u	393	GLN
1	u	396	GLN
1	u	411	ASN
1	u	413	HIS
1	u	430	GLN
1	u	434	ASN
1	u	448	GLN
1	u	470	HIS
1	u	503	ASN
1	u	533	ASN
1	v	51	HIS
1	v	60	HIS
1	v	64	HIS
1	v	141	HIS
1	v	144	GLN
1	v	148	ASN
1	v	183	ASN
1	v	209	GLN
1	v	213	HIS
1	v	280	HIS
1	v	286	HIS
1	v	291	HIS
1	v	305	ASN
1	v	342	HIS
1	v	358	GLN

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Mol	Chain	Res	Type
1	v	383	HIS
1	v	393	GLN
1	v	396	GLN
1	v	411	ASN
1	v	413	HIS
1	v	430	GLN
1	v	434	ASN
1	v	448	GLN
1	v	470	HIS
1	v	503	ASN
1	v	533	ASN
1	w	51	HIS
1	w	64	HIS
1	w	141	HIS
1	w	144	GLN
1	w	148	ASN
1	w	183	ASN
1	w	209	GLN
1	w	213	HIS
1	w	280	HIS
1	w	286	HIS
1	w	291	HIS
1	w	305	ASN
1	w	342	HIS
1	w	383	HIS
1	w	393	GLN
1	w	396	GLN
1	w	411	ASN
1	w	413	HIS
1	w	430	GLN
1	w	434	ASN
1	w	448	GLN
1	w	470	HIS
1	w	503	ASN
1	w	533	ASN
1	x	51	HIS
1	x	64	HIS
1	x	141	HIS
1	x	144	GLN
1	x	148	ASN
1	x	183	ASN
1	x	209	GLN

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Mol	Chain	Res	Type
1	x	213	HIS
1	x	280	HIS
1	x	286	HIS
1	x	291	HIS
1	x	305	ASN
1	x	342	HIS
1	x	358	GLN
1	x	383	HIS
1	x	393	GLN
1	x	396	GLN
1	x	411	ASN
1	x	413	HIS
1	x	430	GLN
1	x	434	ASN
1	x	448	GLN
1	x	470	HIS
1	x	503	ASN
1	x	533	ASN
1	y	51	HIS
1	y	64	HIS
1	y	141	HIS
1	y	144	GLN
1	y	148	ASN
1	y	183	ASN
1	y	209	GLN
1	y	213	HIS
1	y	280	HIS
1	y	286	HIS
1	y	291	HIS
1	y	305	ASN
1	y	342	HIS
1	y	358	GLN
1	y	383	HIS
1	y	393	GLN
1	y	396	GLN
1	y	411	ASN
1	y	413	HIS
1	y	430	GLN
1	y	434	ASN
1	y	448	GLN
1	y	470	HIS
1	y	503	ASN

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Mol	Chain	Res	Type
1	y	533	ASN
1	z	64	HIS
1	z	141	HIS
1	z	144	GLN
1	z	148	ASN
1	z	183	ASN
1	z	209	GLN
1	z	213	HIS
1	z	280	HIS
1	z	286	HIS
1	z	291	HIS
1	z	305	ASN
1	z	342	HIS
1	z	358	GLN
1	z	383	HIS
1	z	393	GLN
1	z	396	GLN
1	z	411	ASN
1	z	413	HIS
1	z	430	GLN
1	z	434	ASN
1	z	448	GLN
1	z	470	HIS
1	z	503	ASN
1	z	533	ASN
1	1	64	HIS
1	1	141	HIS
1	1	144	GLN
1	1	148	ASN
1	1	183	ASN
1	1	209	GLN
1	1	213	HIS
1	1	280	HIS
1	1	286	HIS
1	1	291	HIS
1	1	305	ASN
1	1	342	HIS
1	1	358	GLN
1	1	383	HIS
1	1	393	GLN
1	1	396	GLN
1	1	411	ASN

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Mol	Chain	Res	Type
1	1	413	HIS
1	1	430	GLN
1	1	434	ASN
1	1	448	GLN
1	1	470	HIS
1	1	503	ASN
1	1	533	ASN
1	2	64	HIS
1	2	141	HIS
1	2	144	GLN
1	2	148	ASN
1	2	183	ASN
1	2	209	GLN
1	2	213	HIS
1	2	280	HIS
1	2	286	HIS
1	2	291	HIS
1	2	305	ASN
1	2	342	HIS
1	2	383	HIS
1	2	393	GLN
1	2	396	GLN
1	2	411	ASN
1	2	413	HIS
1	2	430	GLN
1	2	434	ASN
1	2	448	GLN
1	2	470	HIS
1	2	503	ASN
1	2	533	ASN
1	3	51	HIS
1	3	64	HIS
1	3	141	HIS
1	3	144	GLN
1	3	148	ASN
1	3	183	ASN
1	3	209	GLN
1	3	213	HIS
1	3	280	HIS
1	3	286	HIS
1	3	291	HIS
1	3	305	ASN

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Mol	Chain	Res	Type
1	3	342	HIS
1	3	358	GLN
1	3	383	HIS
1	3	393	GLN
1	3	396	GLN
1	3	411	ASN
1	3	413	HIS
1	3	430	GLN
1	3	434	ASN
1	3	448	GLN
1	3	470	HIS
1	3	503	ASN
1	3	533	ASN
1	4	51	HIS
1	4	60	HIS
1	4	64	HIS
1	4	141	HIS
1	4	144	GLN
1	4	148	ASN
1	4	183	ASN
1	4	209	GLN
1	4	213	HIS
1	4	280	HIS
1	4	286	HIS
1	4	291	HIS
1	4	305	ASN
1	4	342	HIS
1	4	358	GLN
1	4	383	HIS
1	4	393	GLN
1	4	396	GLN
1	4	411	ASN
1	4	413	HIS
1	4	430	GLN
1	4	434	ASN
1	4	448	GLN
1	4	470	HIS
1	4	503	ASN
1	4	533	ASN
1	5	51	HIS
1	5	64	HIS
1	5	141	HIS

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Mol	Chain	Res	Type
1	5	144	GLN
1	5	148	ASN
1	5	183	ASN
1	5	209	GLN
1	5	213	HIS
1	5	280	HIS
1	5	286	HIS
1	5	291	HIS
1	5	305	ASN
1	5	342	HIS
1	5	358	GLN
1	5	383	HIS
1	5	393	GLN
1	5	396	GLN
1	5	411	ASN
1	5	413	HIS
1	5	430	GLN
1	5	434	ASN
1	5	448	GLN
1	5	470	HIS
1	5	503	ASN
1	5	533	ASN
1	6	51	HIS
1	6	64	HIS
1	6	141	HIS
1	6	144	GLN
1	6	148	ASN
1	6	183	ASN
1	6	209	GLN
1	6	213	HIS
1	6	280	HIS
1	6	286	HIS
1	6	291	HIS
1	6	305	ASN
1	6	342	HIS
1	6	358	GLN
1	6	383	HIS
1	6	393	GLN
1	6	396	GLN
1	6	411	ASN
1	6	413	HIS
1	6	430	GLN

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Mol	Chain	Res	Type
1	6	434	ASN
1	6	448	GLN
1	6	470	HIS
1	6	503	ASN
1	6	533	ASN
1	7	51	HIS
1	7	64	HIS
1	7	141	HIS
1	7	144	GLN
1	7	148	ASN
1	7	183	ASN
1	7	209	GLN
1	7	213	HIS
1	7	280	HIS
1	7	286	HIS
1	7	291	HIS
1	7	305	ASN
1	7	342	HIS
1	7	358	GLN
1	7	383	HIS
1	7	393	GLN
1	7	396	GLN
1	7	411	ASN
1	7	413	HIS
1	7	430	GLN
1	7	434	ASN
1	7	448	GLN
1	7	470	HIS
1	7	503	ASN
1	7	533	ASN
1	8	51	HIS
1	8	60	HIS
1	8	64	HIS
1	8	141	HIS
1	8	144	GLN
1	8	148	ASN
1	8	183	ASN
1	8	209	GLN
1	8	213	HIS
1	8	280	HIS
1	8	286	HIS
1	8	291	HIS

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Mol	Chain	Res	Type
1	8	305	ASN
1	8	342	HIS
1	8	358	GLN
1	8	383	HIS
1	8	393	GLN
1	8	396	GLN
1	8	411	ASN
1	8	413	HIS
1	8	430	GLN
1	8	434	ASN
1	8	448	GLN
1	8	470	HIS
1	8	503	ASN
1	8	533	ASN

5.3.3 RNA [i](#)

There are no RNA molecules in this entry.

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

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

5.5 Carbohydrates [i](#)

There are no oligosaccharides in this entry.

5.6 Ligand geometry [i](#)

There are no ligands in this entry.

5.7 Other polymers [i](#)

There are no such residues in this entry.

5.8 Polymer linkage issues [i](#)

There are no chain breaks in this entry.

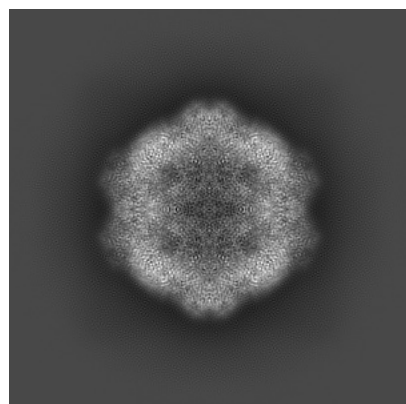
6 Map visualisation [i](#)

This section contains visualisations of the EMDB entry EMD-45958. These allow visual inspection of the internal detail of the map and identification of artifacts.

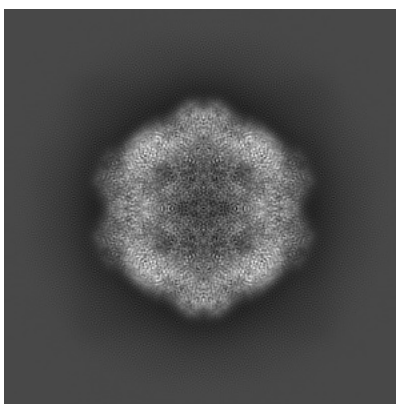
Images derived from a raw map, generated by summing the deposited half-maps, are presented below the corresponding image components of the primary map to allow further visual inspection and comparison with those of the primary map.

6.1 Orthogonal projections [i](#)

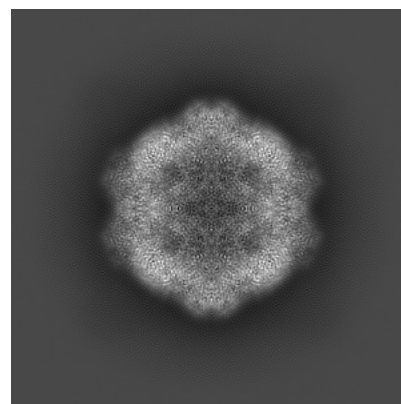
6.1.1 Primary map



X

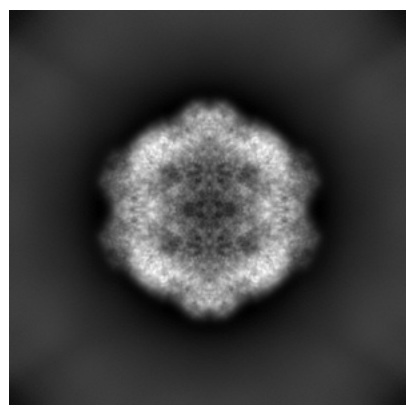


Y

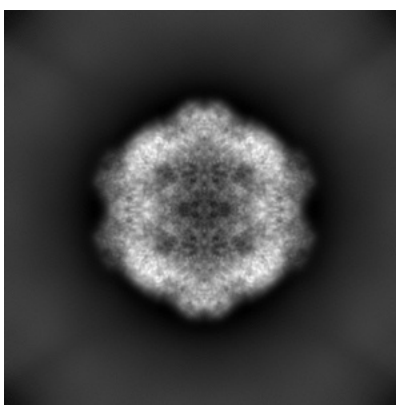


Z

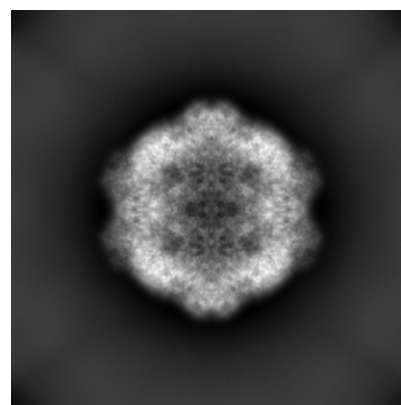
6.1.2 Raw map



X



Y

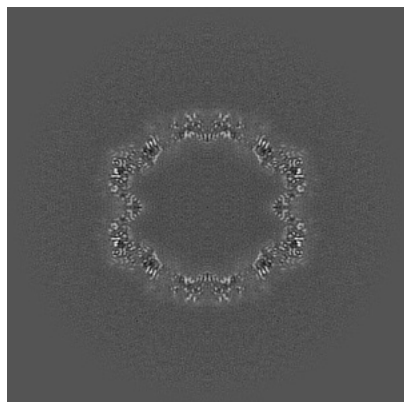


Z

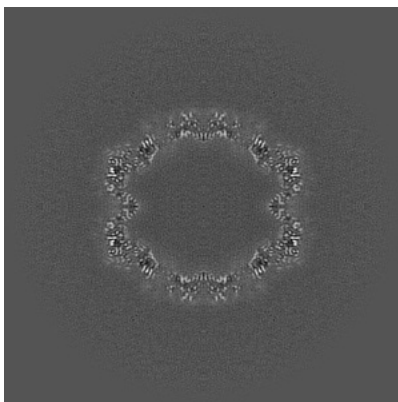
The images above show the map projected in three orthogonal directions.

6.2 Central slices [i](#)

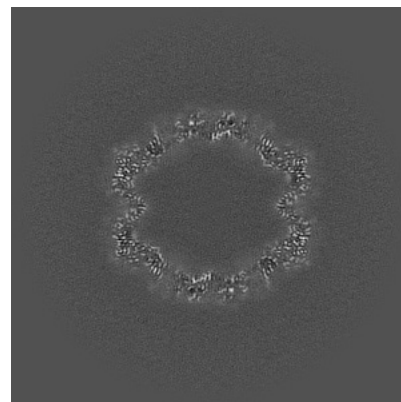
6.2.1 Primary map



X Index: 235

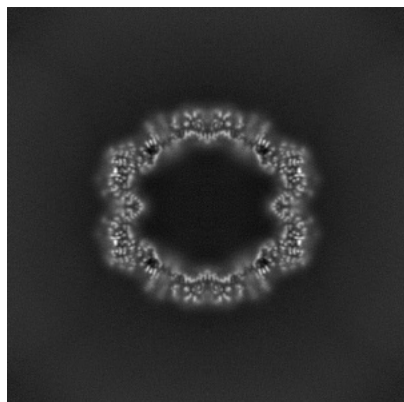


Y Index: 235

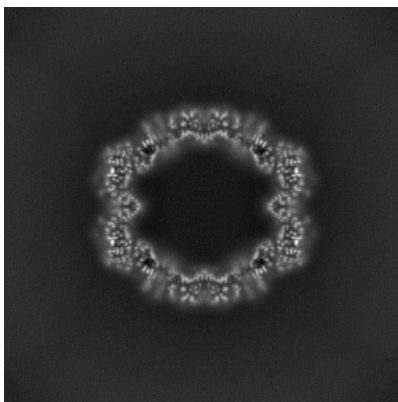


Z Index: 235

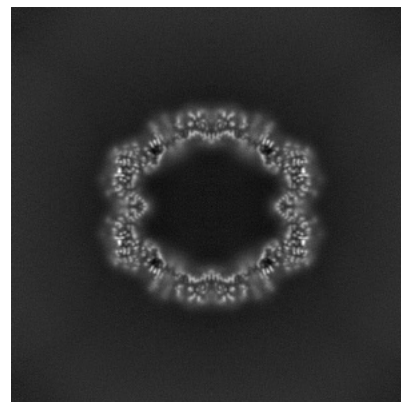
6.2.2 Raw map



X Index: 235



Y Index: 235

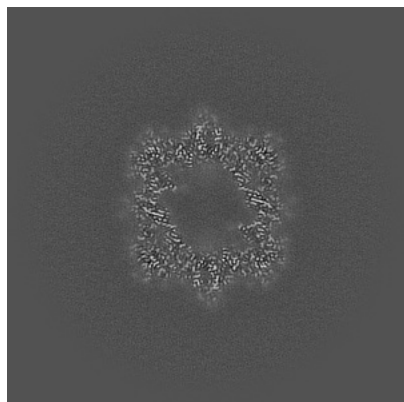


Z Index: 235

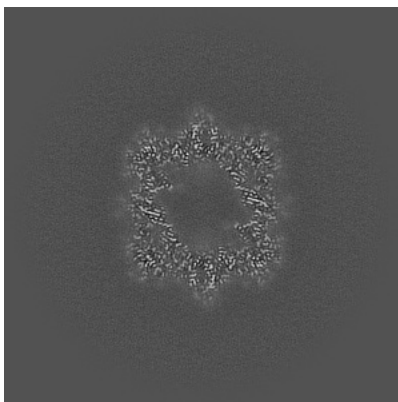
The images above show central slices of the map in three orthogonal directions.

6.3 Largest variance slices [i](#)

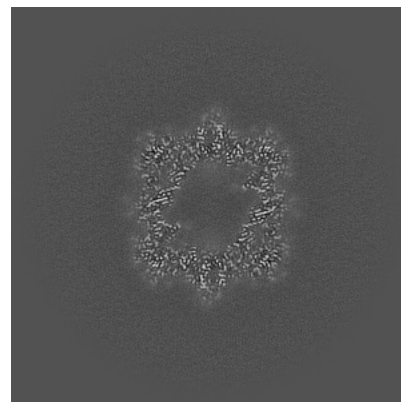
6.3.1 Primary map



X Index: 300

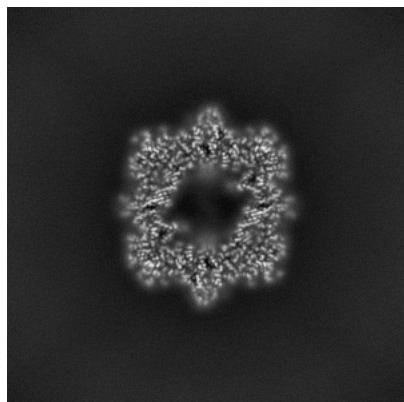


Y Index: 300

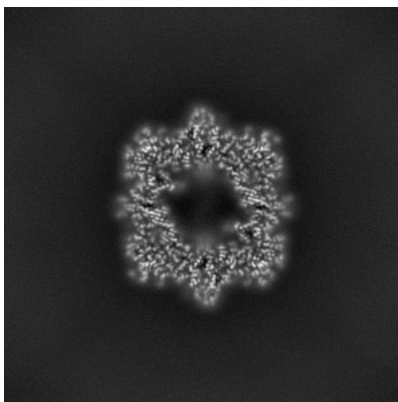


Z Index: 169

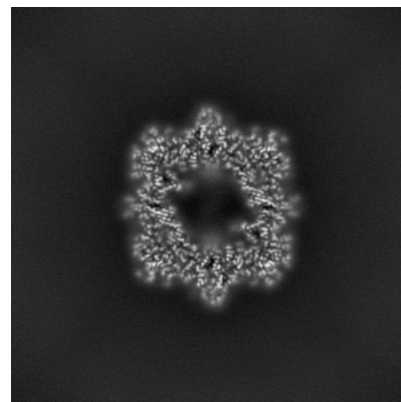
6.3.2 Raw map



X Index: 300



Y Index: 170

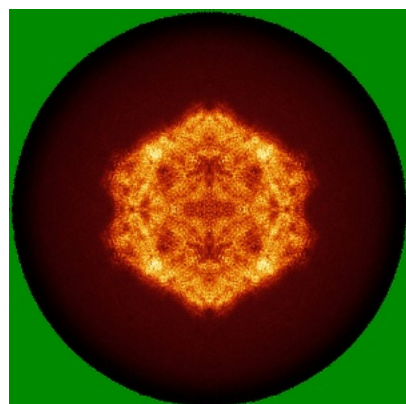


Z Index: 170

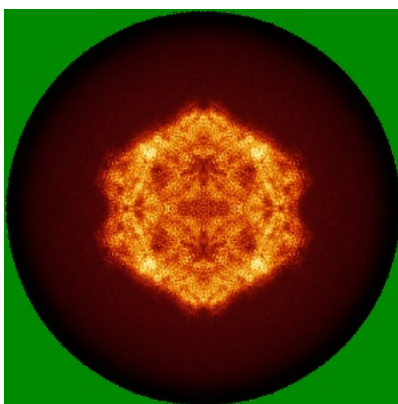
The images above show the largest variance slices of the map in three orthogonal directions.

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

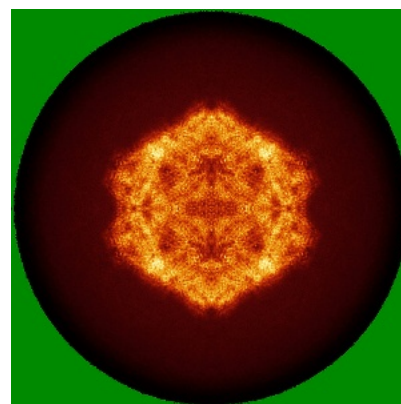
6.4.1 Primary map



X

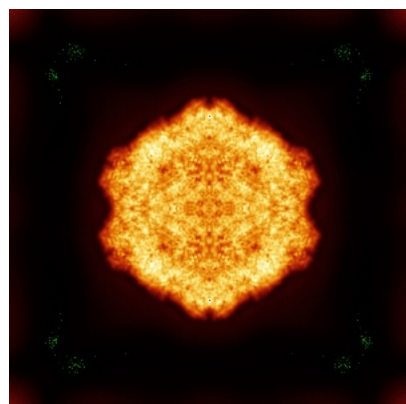


Y

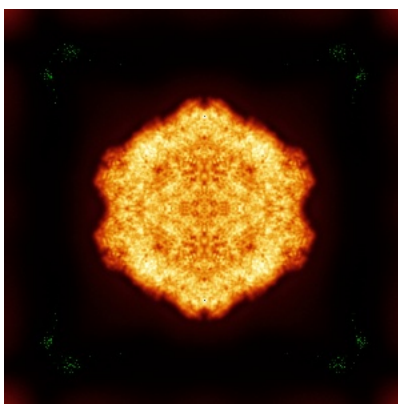


Z

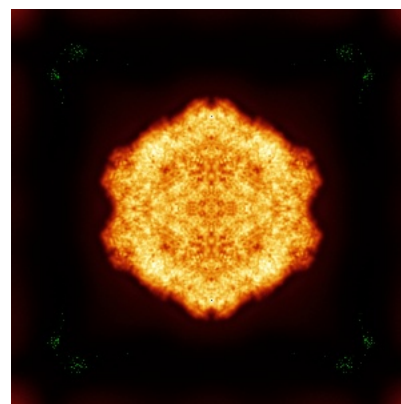
6.4.2 Raw map



X



Y

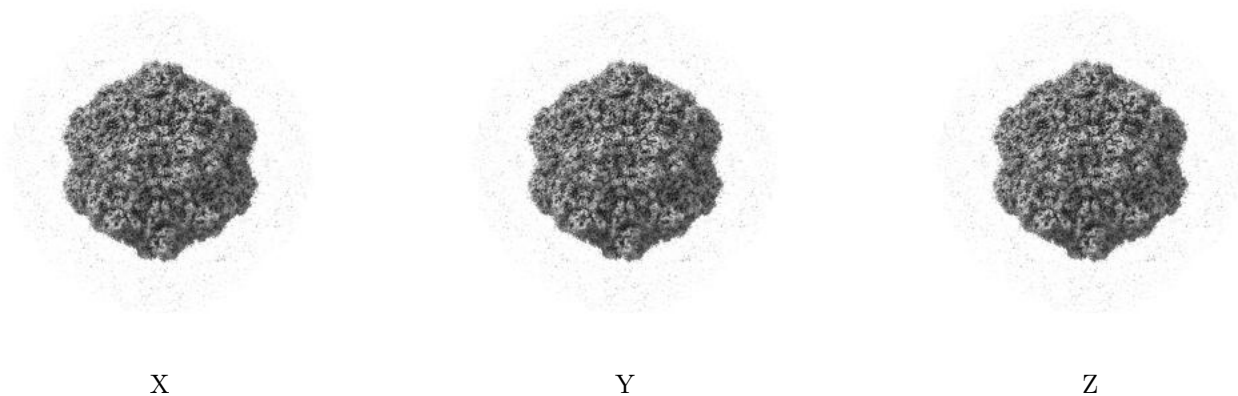


Z

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.

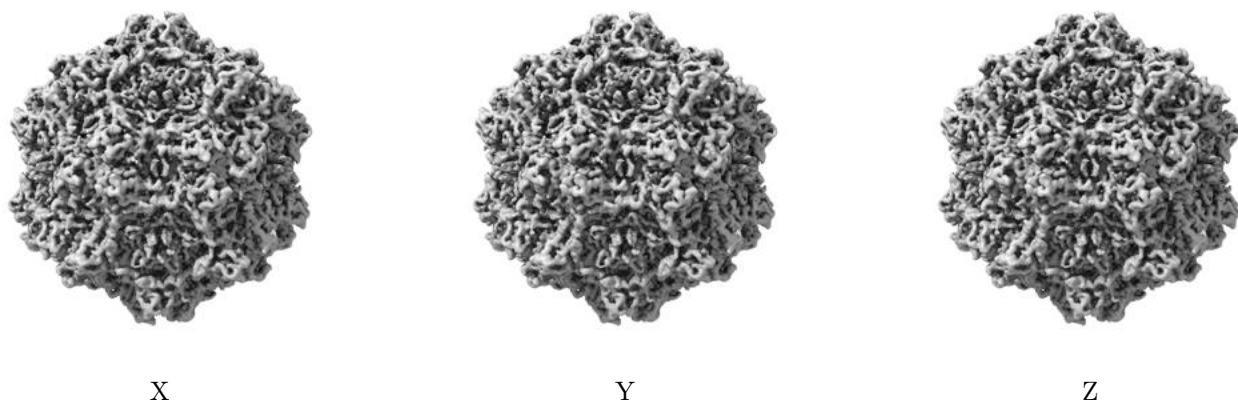
6.5 Orthogonal surface views [i](#)

6.5.1 Primary map



The images above show the 3D surface view of the map at the recommended contour level 2.0. 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



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.

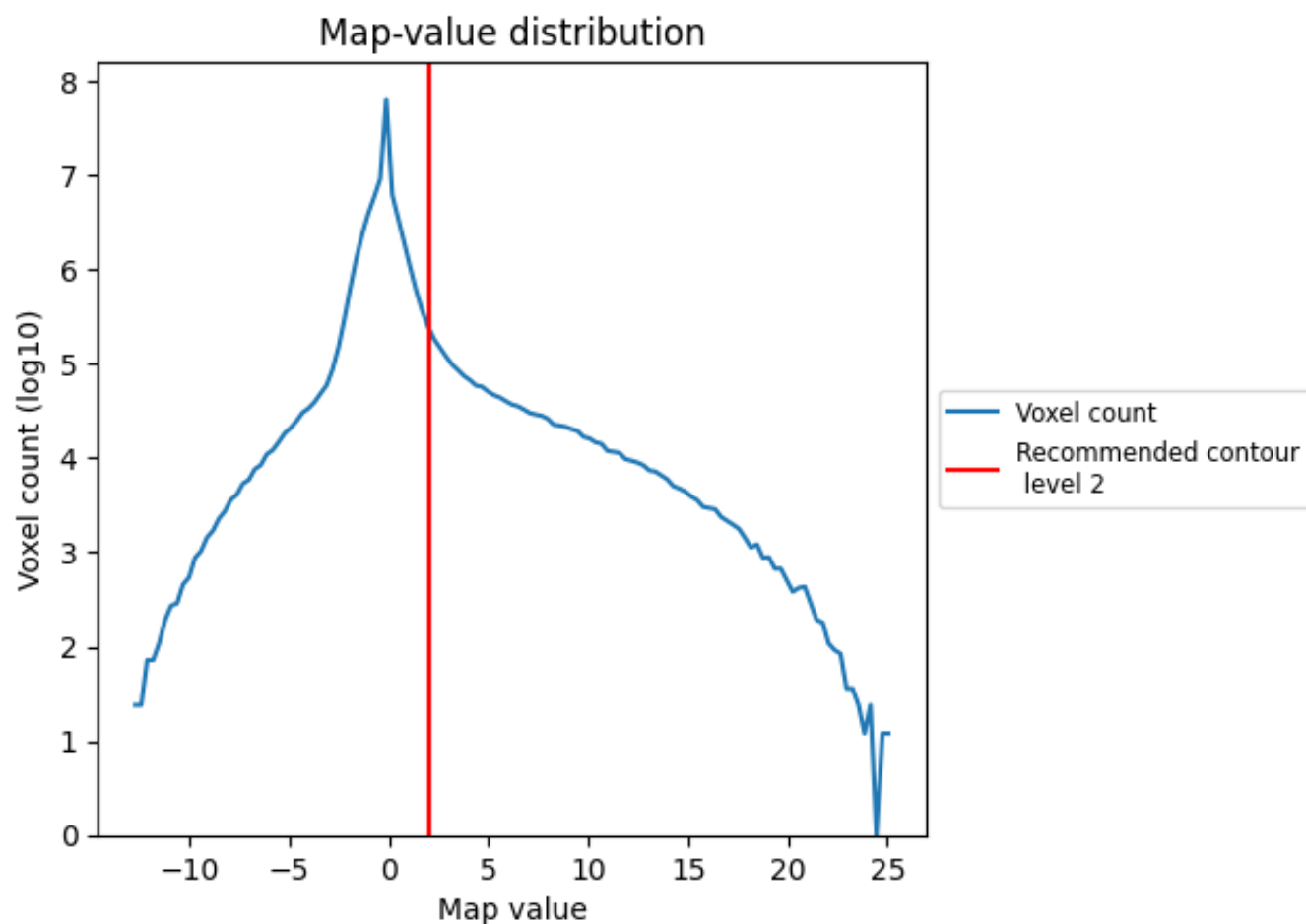
6.6 Mask visualisation [i](#)

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

7 Map analysis [i](#)

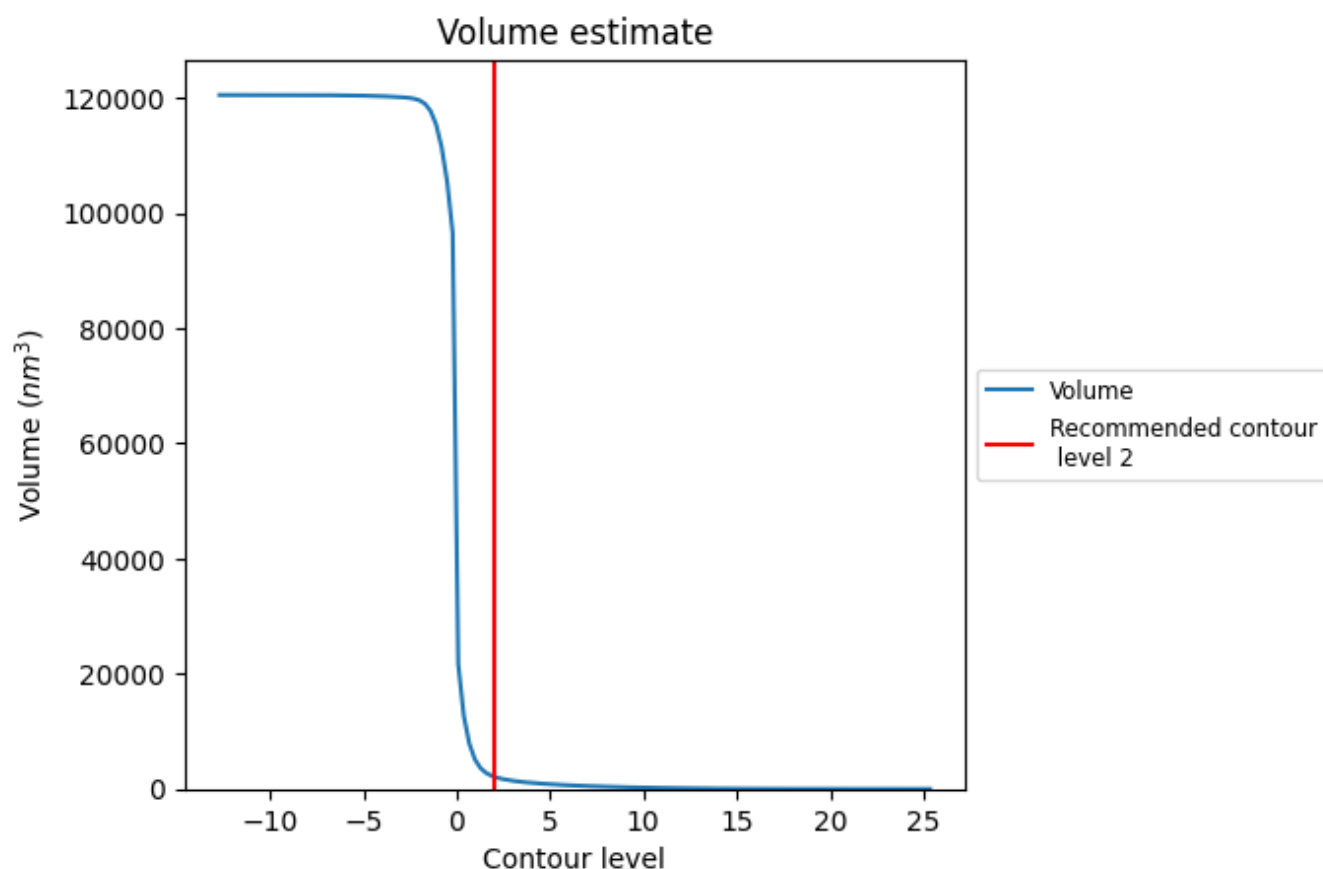
This section contains the results of statistical analysis of the map.

7.1 Map-value distribution [i](#)



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

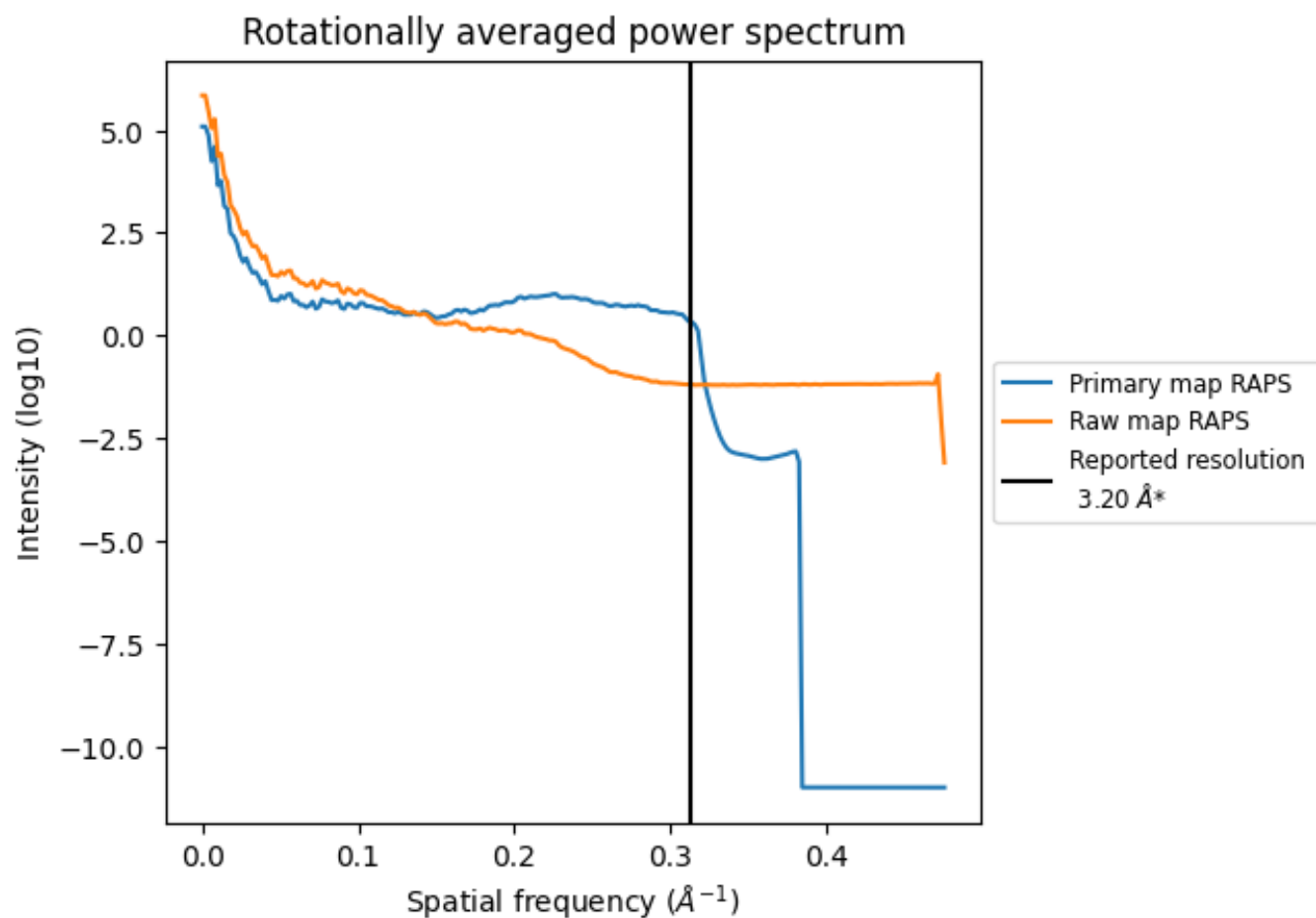
7.2 Volume estimate [i](#)



The volume at the recommended contour level is 2145 nm^3 ; this corresponds to an approximate mass of 1938 kDa.

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

7.3 Rotationally averaged power spectrum ⓘ

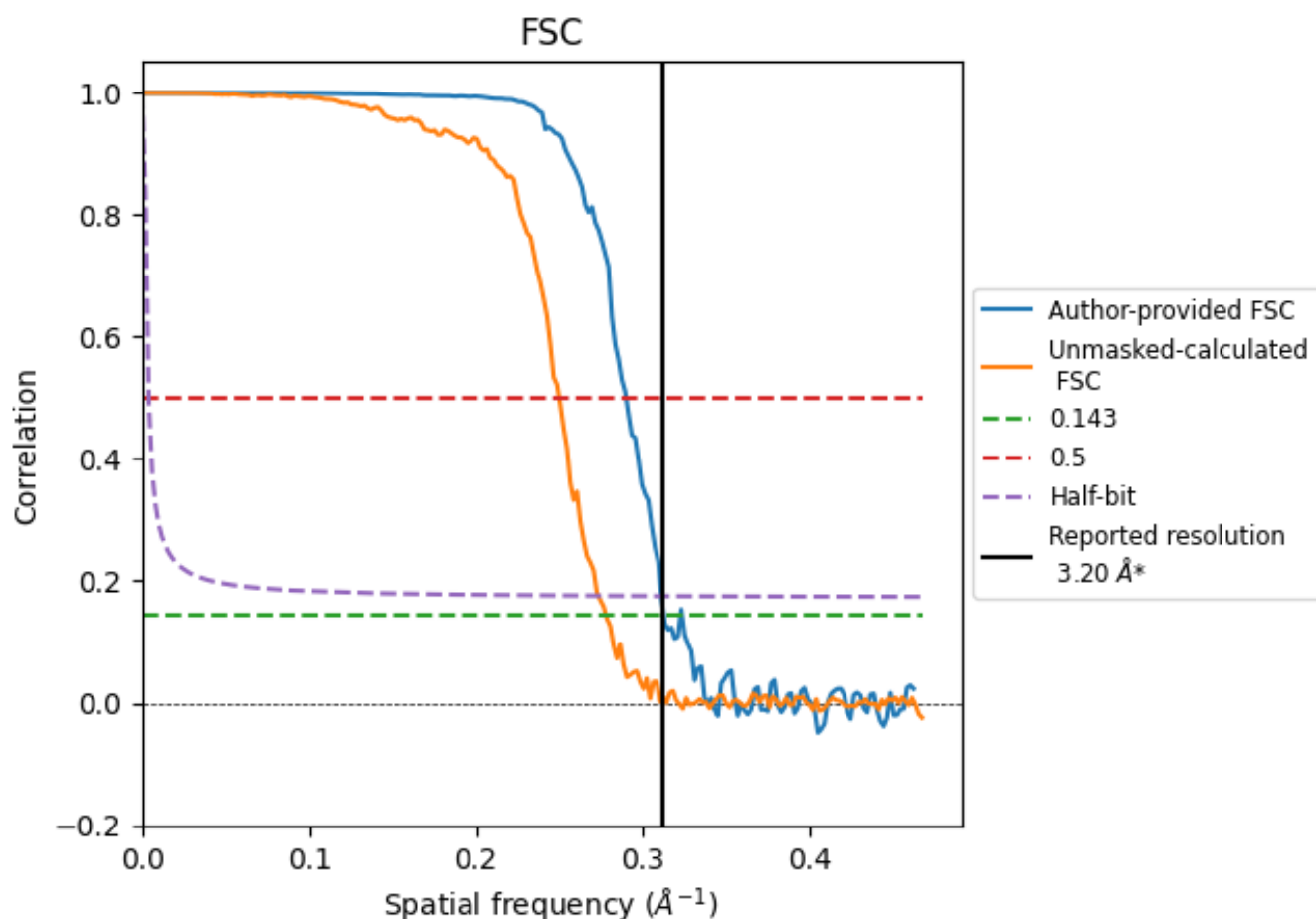


*Reported resolution corresponds to spatial frequency of $0.312 \text{ \AA}^{-1}$

8 Fourier-Shell correlation [i](#)

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 [i](#)



*Reported resolution corresponds to spatial frequency of 0.312 $\text{\AA}^{-1}$

8.2 Resolution estimates [i](#)

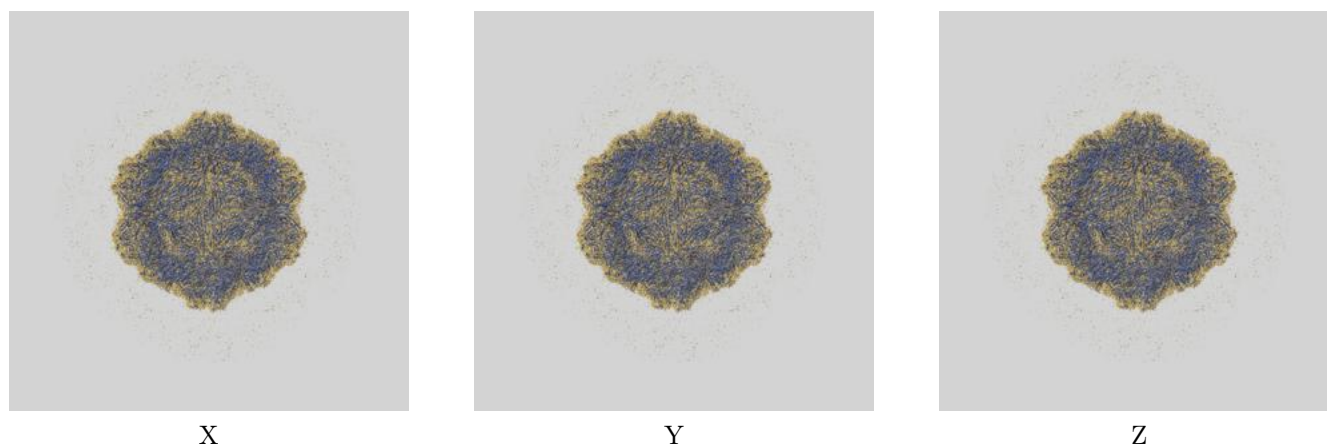
Resolution estimate (Å)	Estimation criterion (FSC cut-off)		
	0.143	0.5	Half-bit
Reported by author	3.20	-	-
Author-provided FSC curve	3.20	3.45	3.22
Unmasked-calculated*	3.60	4.00	3.66

*Resolution estimate based on FSC curve calculated by comparison of deposited half-maps. The value from deposited half-maps intersecting FSC 0.143 CUT-OFF 3.60 differs from the reported value 3.2 by more than 10 %

9 Map-model fit [i](#)

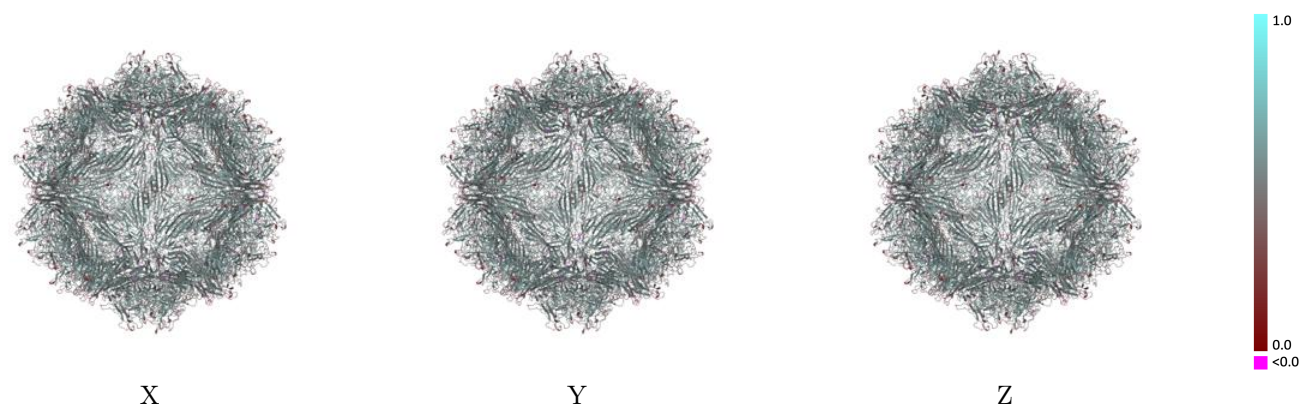
This section contains information regarding the fit between EMDB map EMD-45958 and PDB model 9CV9. Per-residue inclusion information can be found in [section 3](#) on [page 11](#).

9.1 Map-model overlay [i](#)



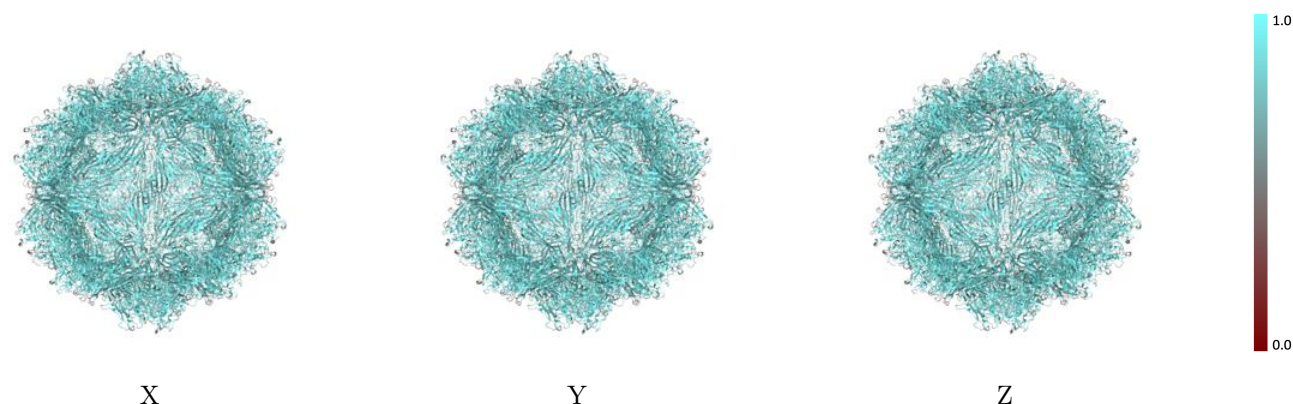
The images above show the 3D surface view of the map at the recommended contour level 2.0 at 50% transparency in yellow overlaid with a ribbon representation of the model coloured in blue. These images allow for the visual assessment of the quality of fit between the atomic model and the map.

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



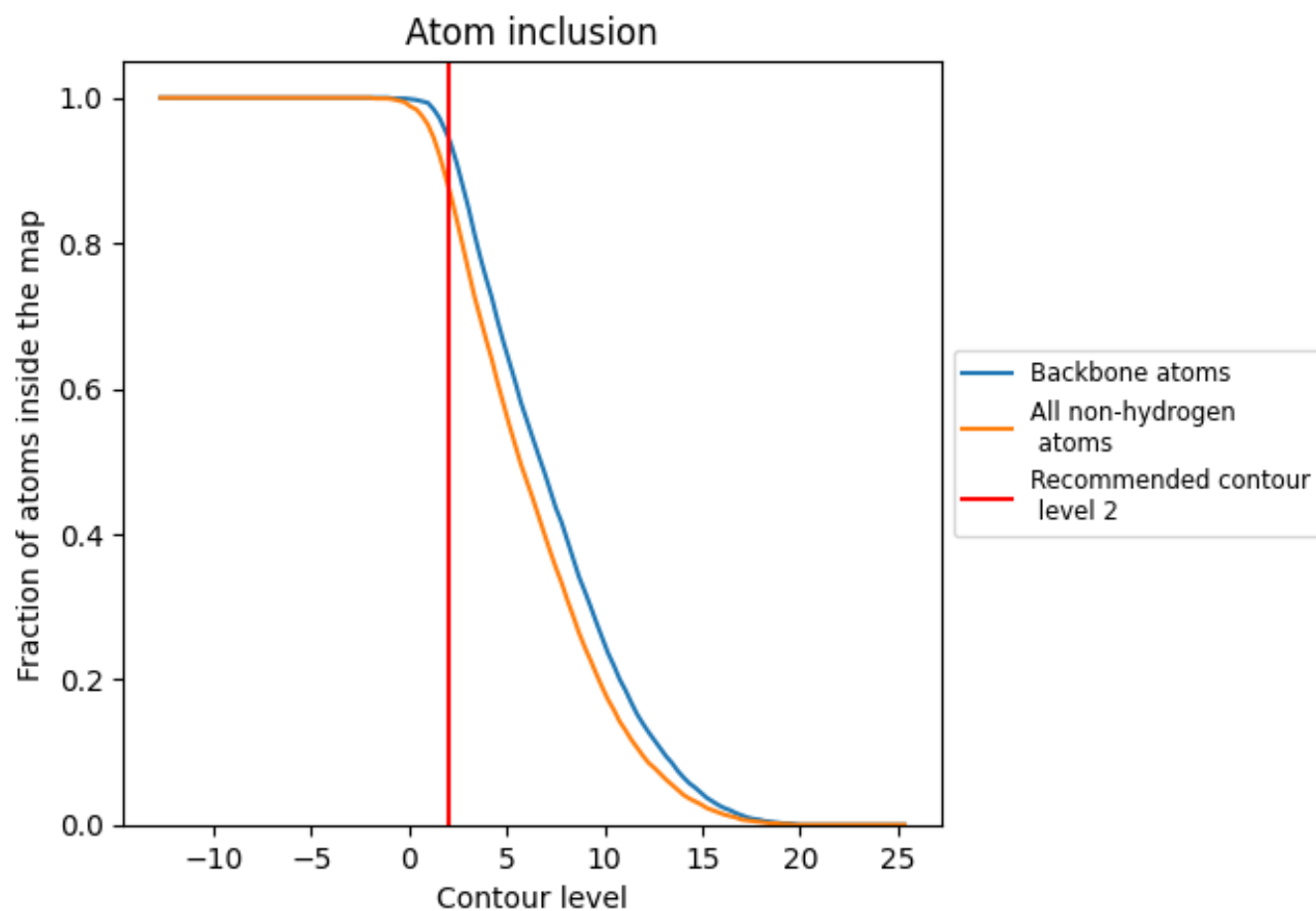
The images above show the model with each residue coloured according its Q-score. This shows their resolvability in the map with higher Q-score values reflecting better resolvability. Please note: Q-score is calculating the resolvability of atoms, and thus high values are only expected at resolutions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



The images above show the model with each residue coloured according to its atom inclusion. This shows to what extent they are inside the map at the recommended contour level (2).

9.4 Atom inclusion [i](#)



At the recommended contour level, 95% of all backbone atoms, 88% of all non-hydrogen atoms, are inside the map.

9.5 Map-model fit summary ⓘ

The table lists the average atom inclusion at the recommended contour level (2) and Q-score for the entire model and for each chain.

Chain	Atom inclusion	Q-score
All	 0.8790	 0.5150
1	 0.8810	 0.5150
2	 0.8810	 0.5140
3	 0.8790	 0.5160
4	 0.8810	 0.5140
5	 0.8810	 0.5150
6	 0.8800	 0.5160
7	 0.8800	 0.5150
8	 0.8760	 0.5160
A	 0.8790	 0.5160
B	 0.8810	 0.5140
C	 0.8800	 0.5150
D	 0.8800	 0.5150
E	 0.8760	 0.5160
F	 0.8790	 0.5170
G	 0.8760	 0.5150
H	 0.8800	 0.5140
I	 0.8800	 0.5170
J	 0.8810	 0.5140
K	 0.8800	 0.5150
L	 0.8810	 0.5130
M	 0.8760	 0.5130
N	 0.8800	 0.5150
O	 0.8760	 0.5150
P	 0.8800	 0.5140
Q	 0.8800	 0.5160
R	 0.8810	 0.5140
S	 0.8810	 0.5150
T	 0.8800	 0.5160
U	 0.8810	 0.5140
V	 0.8800	 0.5160
W	 0.8800	 0.5150
X	 0.8760	 0.5140
Y	 0.8800	 0.5140
Z	 0.8760	 0.5140



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Chain	Atom inclusion	Q-score
a	 0.8790	 0.5160
b	 0.8790	 0.5140
c	 0.8790	 0.5150
d	 0.8790	 0.5150
e	 0.8790	 0.5140
f	 0.8790	 0.5150
g	 0.8800	 0.5150
h	 0.8760	 0.5140
i	 0.8800	 0.5140
j	 0.8810	 0.5140
k	 0.8800	 0.5140
l	 0.8760	 0.5160
m	 0.8800	 0.5150
n	 0.8790	 0.5150
o	 0.8760	 0.5150
p	 0.8800	 0.5160
q	 0.8810	 0.5140
r	 0.8810	 0.5150
s	 0.8810	 0.5140
t	 0.8760	 0.5150
u	 0.8800	 0.5170
v	 0.8790	 0.5160
w	 0.8760	 0.5150
x	 0.8800	 0.5170
y	 0.8790	 0.5160
z	 0.8810	 0.5140