



Full wwPDB EM Validation Report ⓘ

Mar 6, 2026 – 08:27 PM UTC

PDB ID : 9CWS / pdb_00009cws
EMDB ID : EMD-45973
Title : Bufavirus 1 at pH 2.6
Authors : Gulkis, M.C.; McKenna, R.; Bennett, A.D.
Deposited on : 2024-07-30
Resolution : 2.73 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 EMDB archive up until May 2025)
MapQ : 1.9.13
Ideal geometry (proteins) : Engh & Huber (2001)
Ideal geometry (DNA, RNA) : Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP) : 2.49

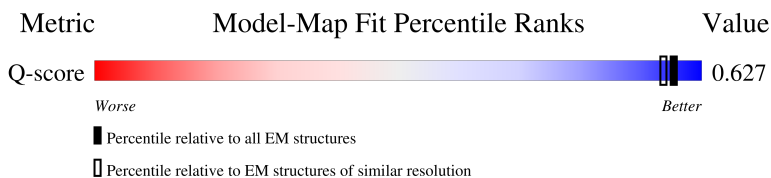
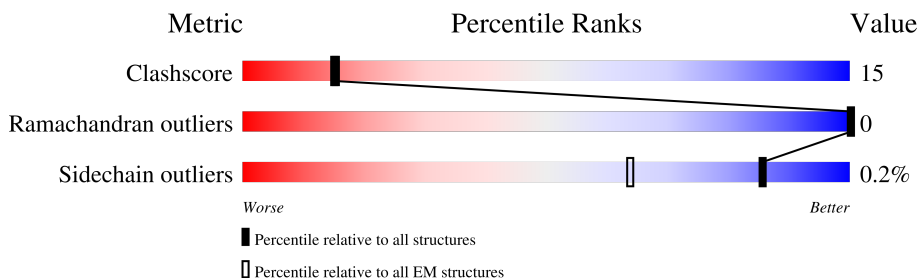
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

ELECTRON MICROSCOPY

The reported resolution of this entry is 2.73 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.



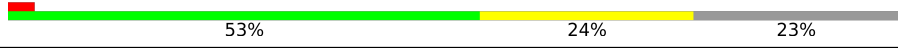
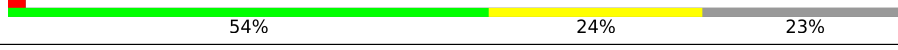
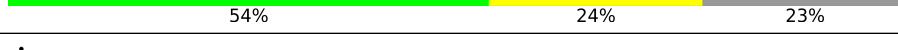
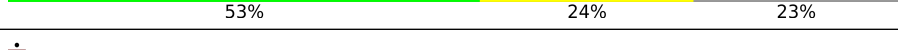
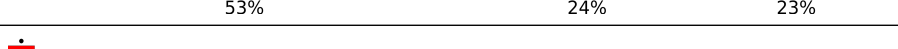
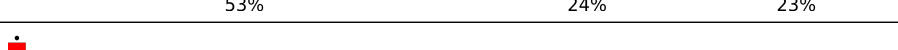
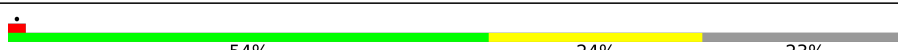
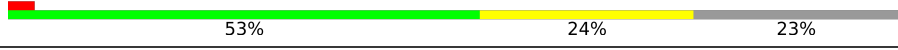
Metric	Whole archive (#Entries)	EM structures (#Entries)	Similar EM resolution (#Entries, resolution range(Å))
Clashscore	229148	23984	-
Ramachandran outliers	224038	23583	-
Sidechain outliers	223484	23102	-
Q-score	-	25397	10432 (2.23 - 3.23)

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	 54% 23% 23%
1	2	707	 53% 24% 23%
1	3	707	 53% 24% 23%
1	4	707	 53% 24% 23%

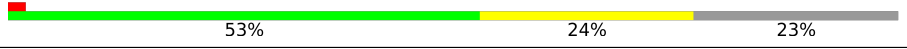
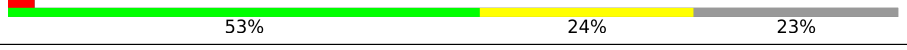
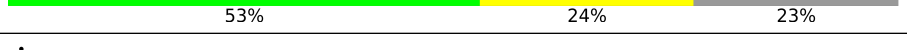
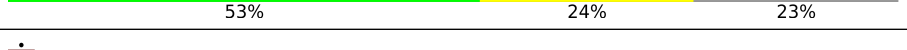
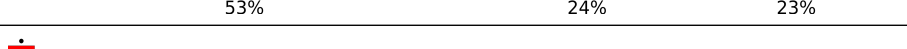
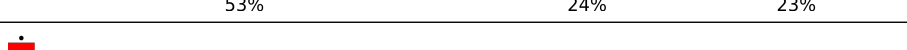
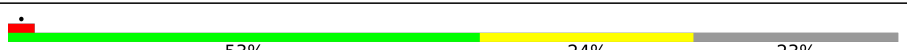
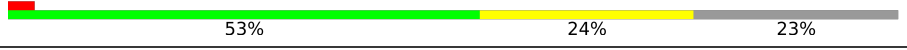
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Mol	Chain	Length	Quality of chain
1	5	707	
1	6	707	
1	7	707	
1	8	707	
1	A	707	
1	B	707	
1	C	707	
1	D	707	
1	E	707	
1	F	707	
1	G	707	
1	H	707	
1	I	707	
1	J	707	
1	K	707	
1	L	707	
1	M	707	
1	N	707	
1	O	707	
1	P	707	
1	Q	707	
1	R	707	
1	S	707	
1	T	707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

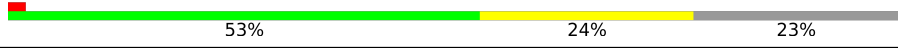
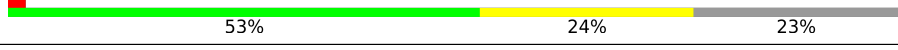
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Mol	Chain	Length	Quality of chain
1	V	707	
1	W	707	
1	X	707	
1	Y	707	
1	Z	707	
1	a	707	
1	b	707	
1	c	707	
1	d	707	
1	e	707	
1	f	707	
1	g	707	
1	h	707	
1	i	707	
1	j	707	
1	k	707	
1	l	707	
1	m	707	
1	n	707	
1	o	707	
1	p	707	
1	q	707	
1	r	707	
1	s	707	
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 263940 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	547	Total	C	N	O	S	0	0
			4399	2779	775	831	14		
1	B	547	Total	C	N	O	S	0	0
			4399	2779	775	831	14		
1	C	547	Total	C	N	O	S	0	0
			4399	2779	775	831	14		
1	D	547	Total	C	N	O	S	0	0
			4399	2779	775	831	14		
1	E	547	Total	C	N	O	S	0	0
			4399	2779	775	831	14		
1	F	547	Total	C	N	O	S	0	0
			4399	2779	775	831	14		
1	G	547	Total	C	N	O	S	0	0
			4399	2779	775	831	14		
1	H	547	Total	C	N	O	S	0	0
			4399	2779	775	831	14		
1	I	547	Total	C	N	O	S	0	0
			4399	2779	775	831	14		
1	J	547	Total	C	N	O	S	0	0
			4399	2779	775	831	14		
1	K	547	Total	C	N	O	S	0	0
			4399	2779	775	831	14		
1	L	547	Total	C	N	O	S	0	0
			4399	2779	775	831	14		
1	M	547	Total	C	N	O	S	0	0
			4399	2779	775	831	14		
1	N	547	Total	C	N	O	S	0	0
			4399	2779	775	831	14		
1	O	547	Total	C	N	O	S	0	0
			4399	2779	775	831	14		
1	P	547	Total	C	N	O	S	0	0
			4399	2779	775	831	14		
1	Q	547	Total	C	N	O	S	0	0
			4399	2779	775	831	14		

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Mol	Chain	Residues	Atoms					AltConf	Trace
1	R	547	Total 4399	C 2779	N 775	O 831	S 14	0	0
1	S	547	Total 4399	C 2779	N 775	O 831	S 14	0	0
1	T	547	Total 4399	C 2779	N 775	O 831	S 14	0	0
1	U	547	Total 4399	C 2779	N 775	O 831	S 14	0	0
1	V	547	Total 4399	C 2779	N 775	O 831	S 14	0	0
1	W	547	Total 4399	C 2779	N 775	O 831	S 14	0	0
1	X	547	Total 4399	C 2779	N 775	O 831	S 14	0	0
1	Y	547	Total 4399	C 2779	N 775	O 831	S 14	0	0
1	Z	547	Total 4399	C 2779	N 775	O 831	S 14	0	0
1	a	547	Total 4399	C 2779	N 775	O 831	S 14	0	0
1	b	547	Total 4399	C 2779	N 775	O 831	S 14	0	0
1	c	547	Total 4399	C 2779	N 775	O 831	S 14	0	0
1	d	547	Total 4399	C 2779	N 775	O 831	S 14	0	0
1	e	547	Total 4399	C 2779	N 775	O 831	S 14	0	0
1	f	547	Total 4399	C 2779	N 775	O 831	S 14	0	0
1	g	547	Total 4399	C 2779	N 775	O 831	S 14	0	0
1	h	547	Total 4399	C 2779	N 775	O 831	S 14	0	0
1	i	547	Total 4399	C 2779	N 775	O 831	S 14	0	0
1	j	547	Total 4399	C 2779	N 775	O 831	S 14	0	0
1	k	547	Total 4399	C 2779	N 775	O 831	S 14	0	0
1	l	547	Total 4399	C 2779	N 775	O 831	S 14	0	0

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Mol	Chain	Residues	Atoms					AltConf	Trace
1	m	547	Total	C	N	O	S	0	0
			4399	2779	775	831	14		
1	n	547	Total	C	N	O	S	0	0
			4399	2779	775	831	14		
1	o	547	Total	C	N	O	S	0	0
			4399	2779	775	831	14		
1	p	547	Total	C	N	O	S	0	0
			4399	2779	775	831	14		
1	q	547	Total	C	N	O	S	0	0
			4399	2779	775	831	14		
1	r	547	Total	C	N	O	S	0	0
			4399	2779	775	831	14		
1	s	547	Total	C	N	O	S	0	0
			4399	2779	775	831	14		
1	t	547	Total	C	N	O	S	0	0
			4399	2779	775	831	14		
1	u	547	Total	C	N	O	S	0	0
			4399	2779	775	831	14		
1	v	547	Total	C	N	O	S	0	0
			4399	2779	775	831	14		
1	w	547	Total	C	N	O	S	0	0
			4399	2779	775	831	14		
1	x	547	Total	C	N	O	S	0	0
			4399	2779	775	831	14		
1	y	547	Total	C	N	O	S	0	0
			4399	2779	775	831	14		
1	z	547	Total	C	N	O	S	0	0
			4399	2779	775	831	14		
1	1	547	Total	C	N	O	S	0	0
			4399	2779	775	831	14		
1	2	547	Total	C	N	O	S	0	0
			4399	2779	775	831	14		
1	3	547	Total	C	N	O	S	0	0
			4399	2779	775	831	14		
1	4	547	Total	C	N	O	S	0	0
			4399	2779	775	831	14		
1	5	547	Total	C	N	O	S	0	0
			4399	2779	775	831	14		
1	6	547	Total	C	N	O	S	0	0
			4399	2779	775	831	14		
1	7	547	Total	C	N	O	S	0	0
			4399	2779	775	831	14		

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Mol	Chain	Residues	Atoms					AltConf	Trace
1	8	547	Total	C	N	O	S	0	0
			4399	2779	775	831	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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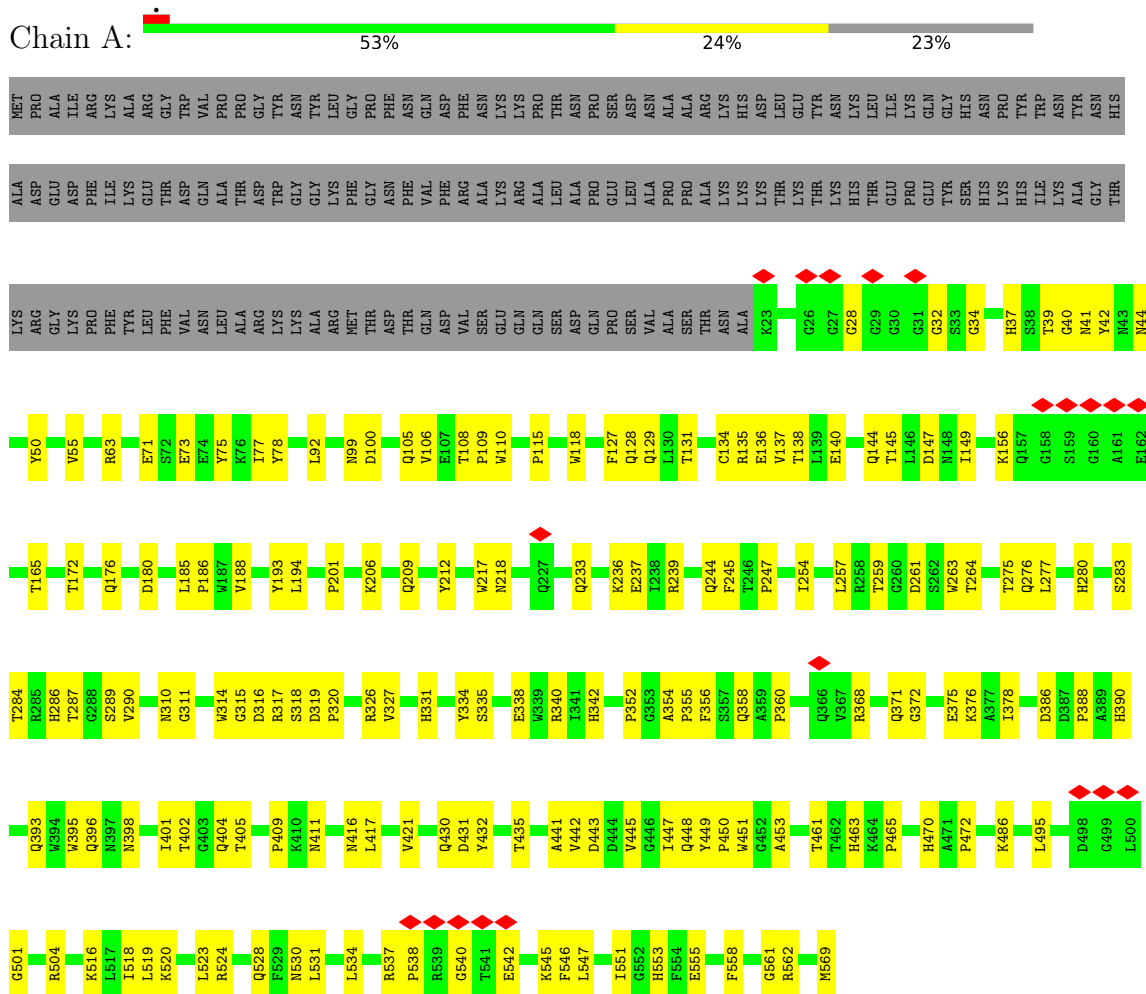
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Chain	Residue	Modelled	Actual	Comment	Reference
k	35	VAL	ILE	conflict	UNP A0A097PIM0
l	35	VAL	ILE	conflict	UNP A0A097PIM0
m	35	VAL	ILE	conflict	UNP A0A097PIM0
n	35	VAL	ILE	conflict	UNP A0A097PIM0
o	35	VAL	ILE	conflict	UNP A0A097PIM0
p	35	VAL	ILE	conflict	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

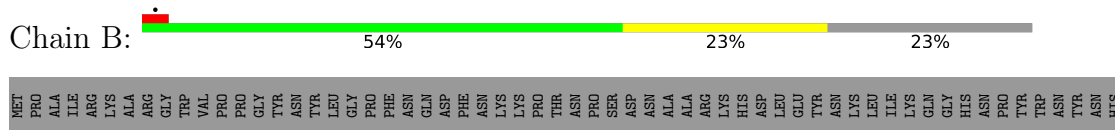
3 Residue-property plots

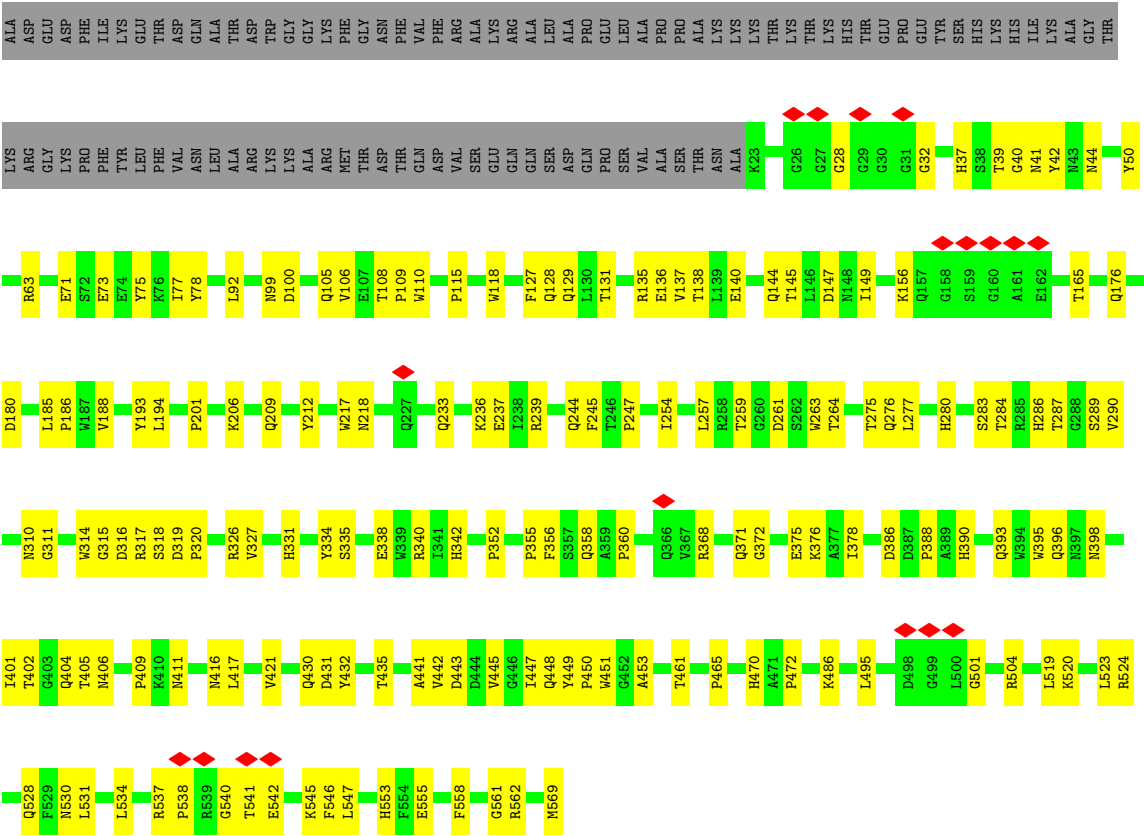
These plots are drawn for all protein, RNA, DNA and oligosaccharide chains in the entry. The first graphic for a chain summarises the proportions of the various outlier classes displayed in the second graphic. The second graphic shows the sequence view annotated by issues in geometry and atom inclusion 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

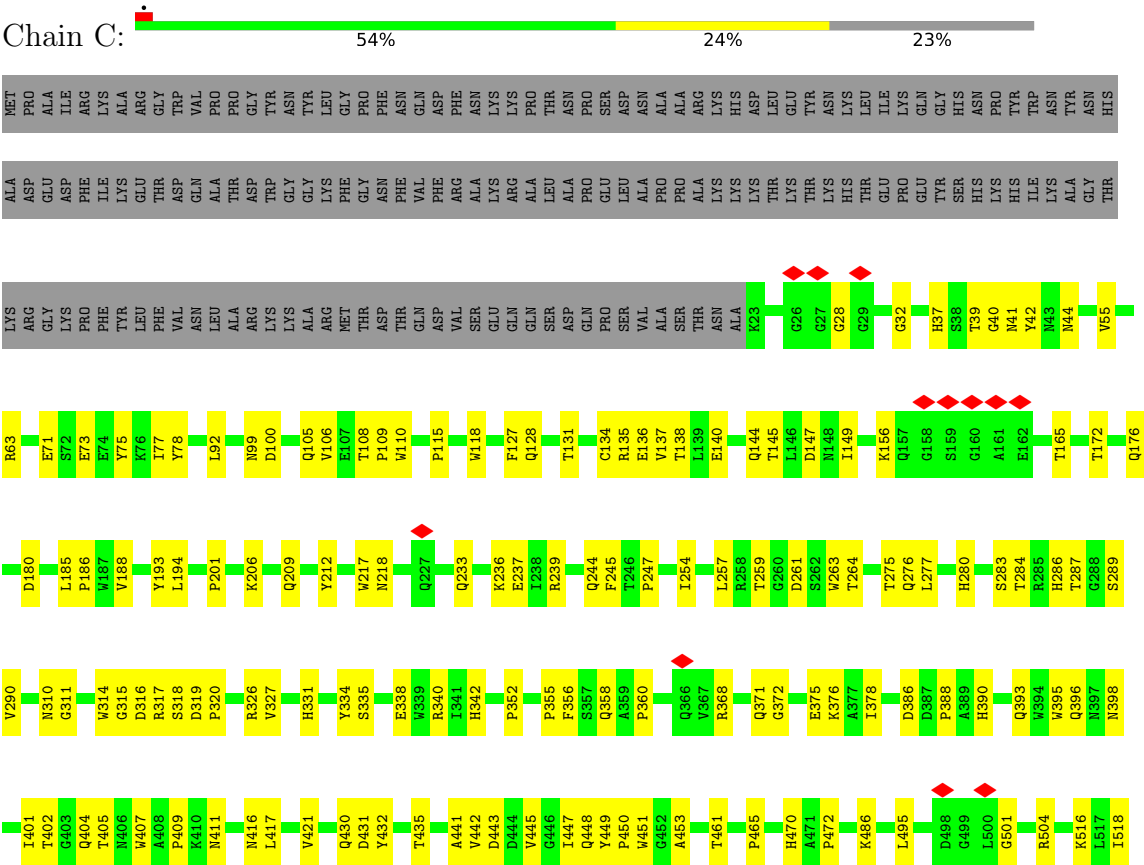


• Molecule 1: VP1





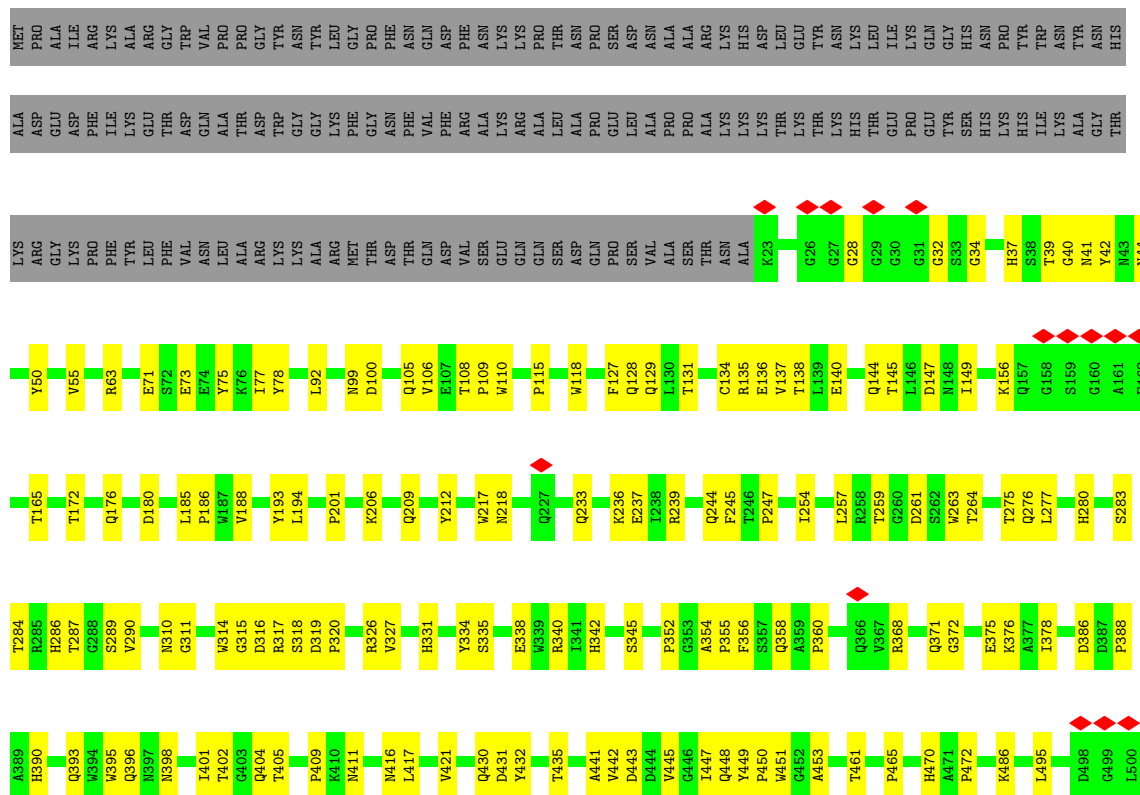
• Molecule 1: VP1





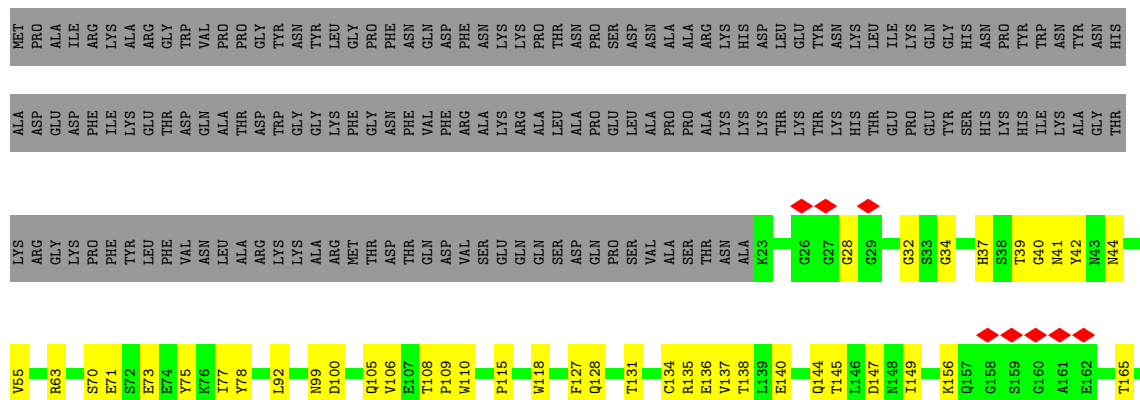
• Molecule 1: VP1

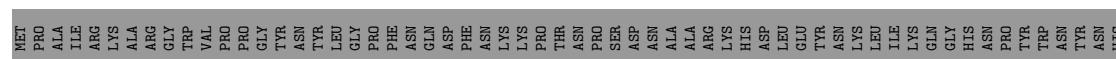
Chain D: 53% 24% 23%

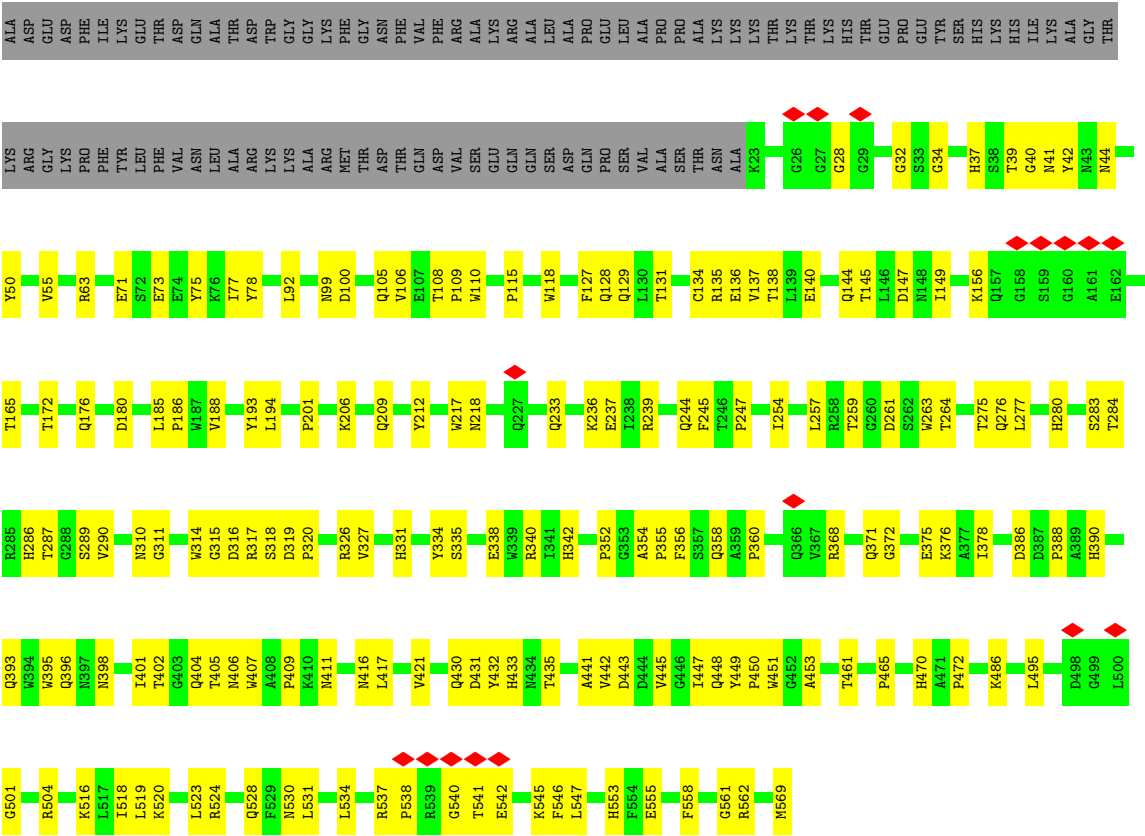


• Molecule 1: VP1

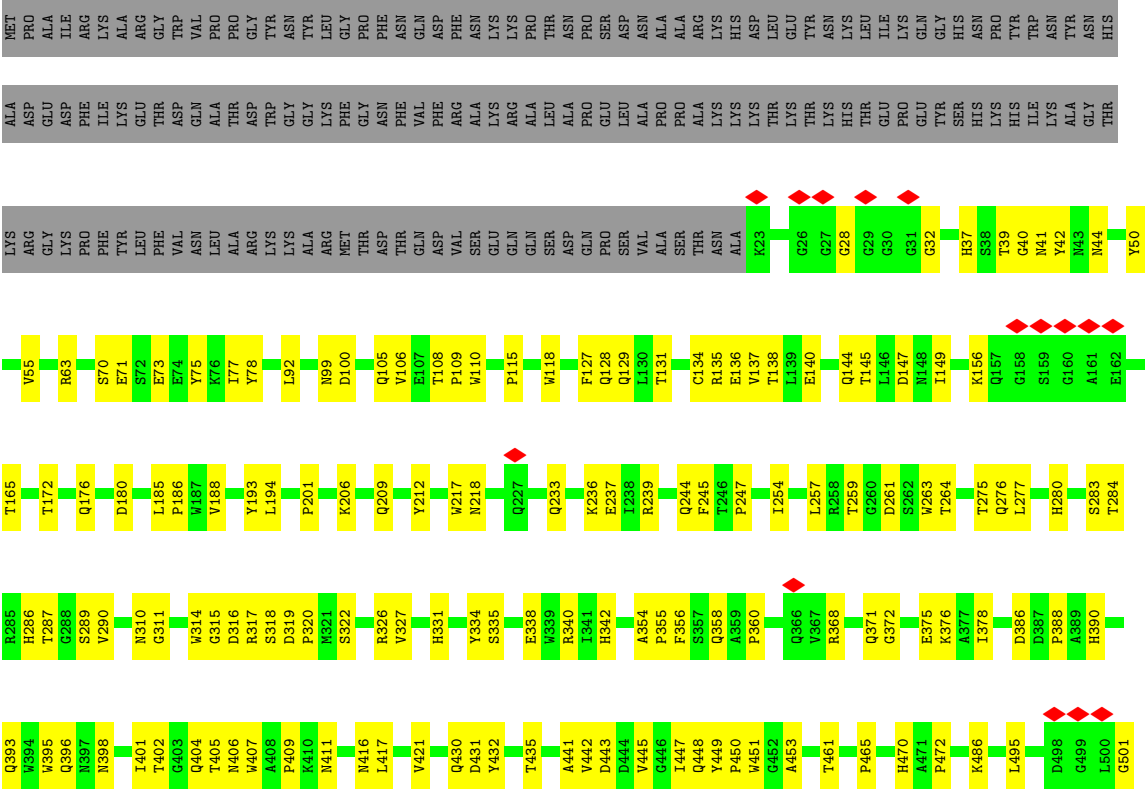
Chain E: 53% 24% 23%

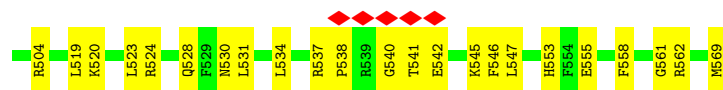




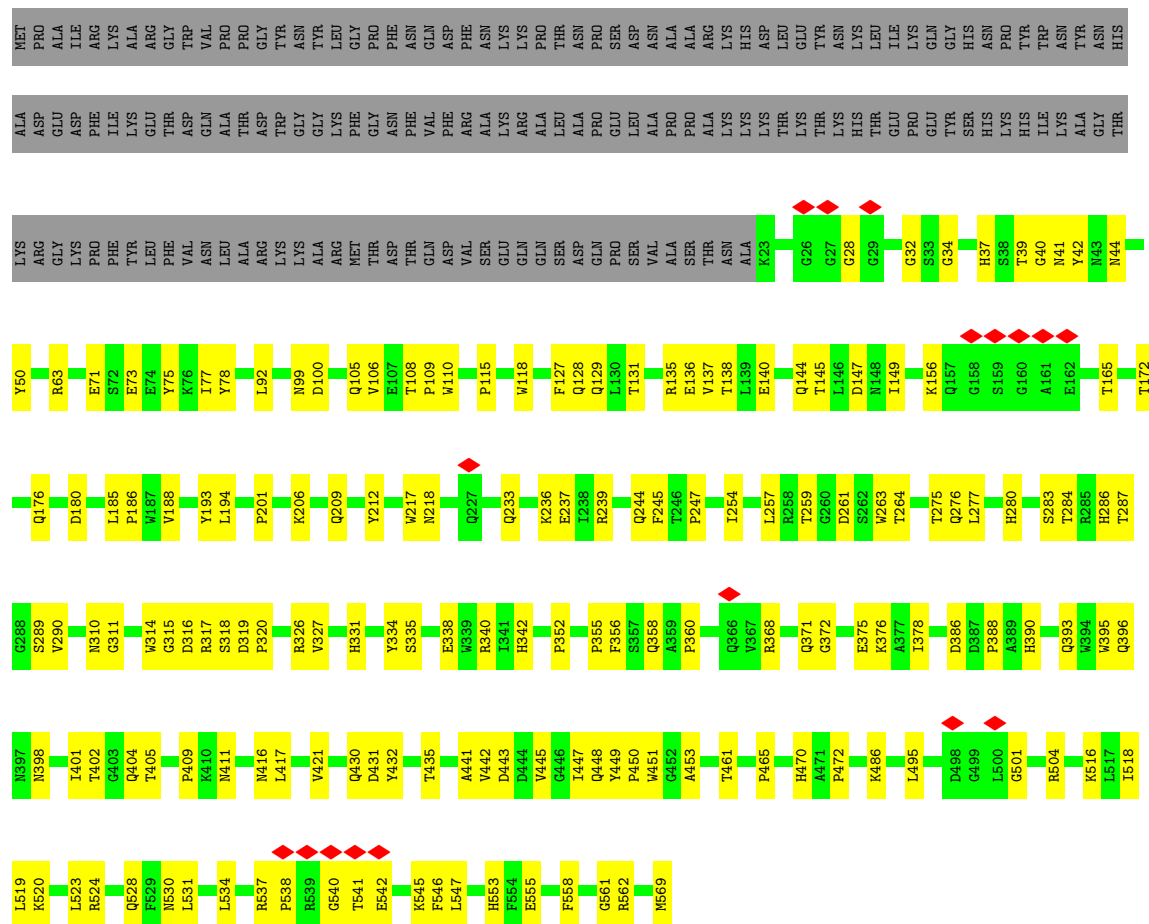


● Molecule 1: VP1

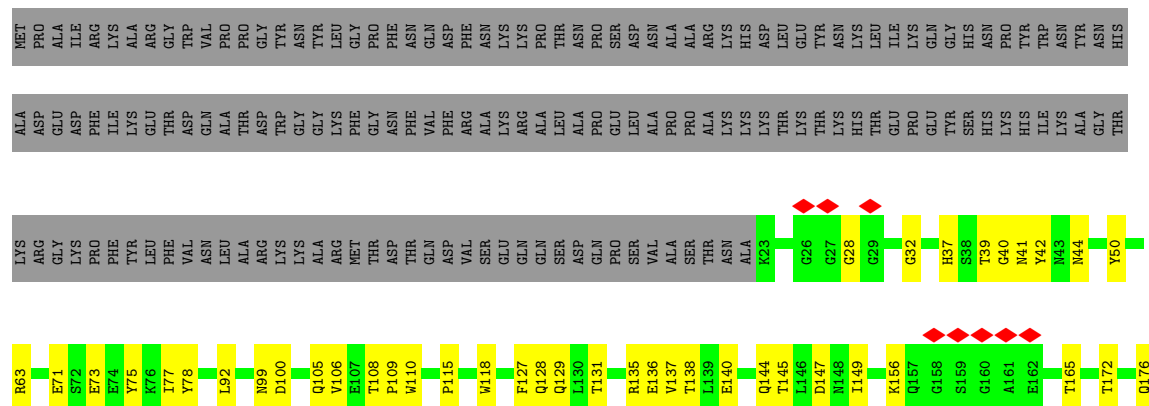




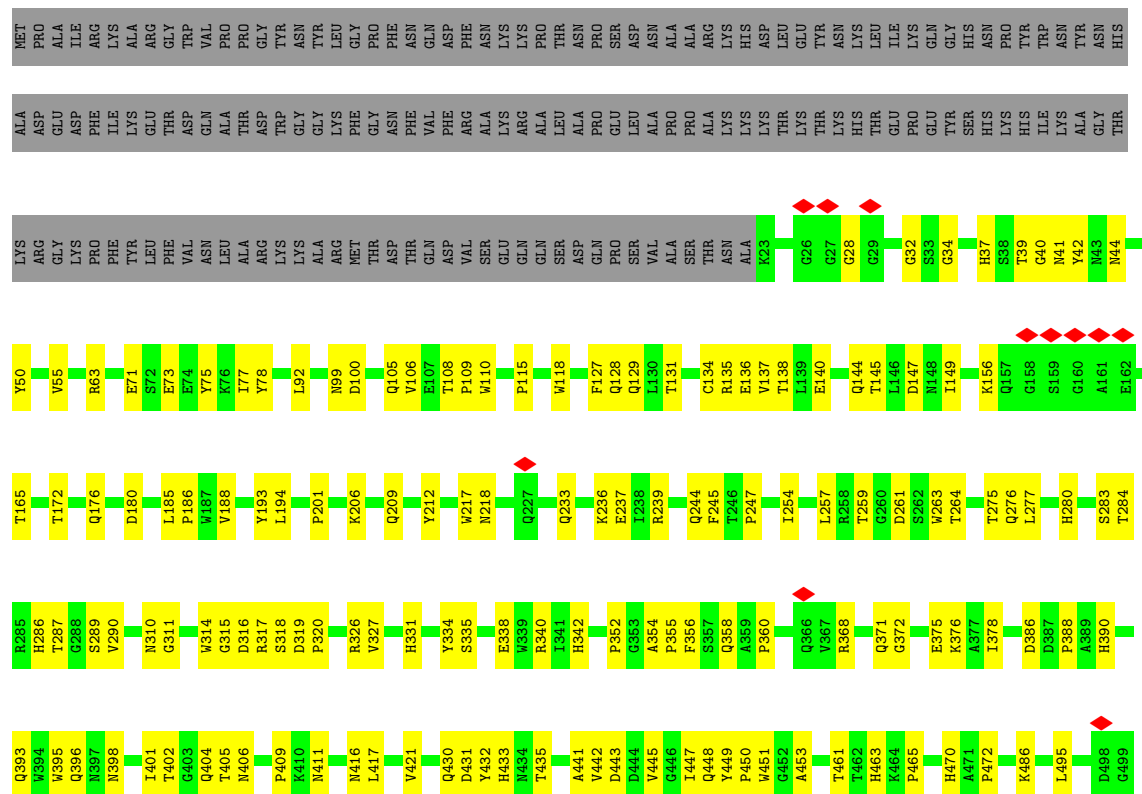
• Molecule 1: VP1



• Molecule 1: VP1



- Molecule 1: VP1

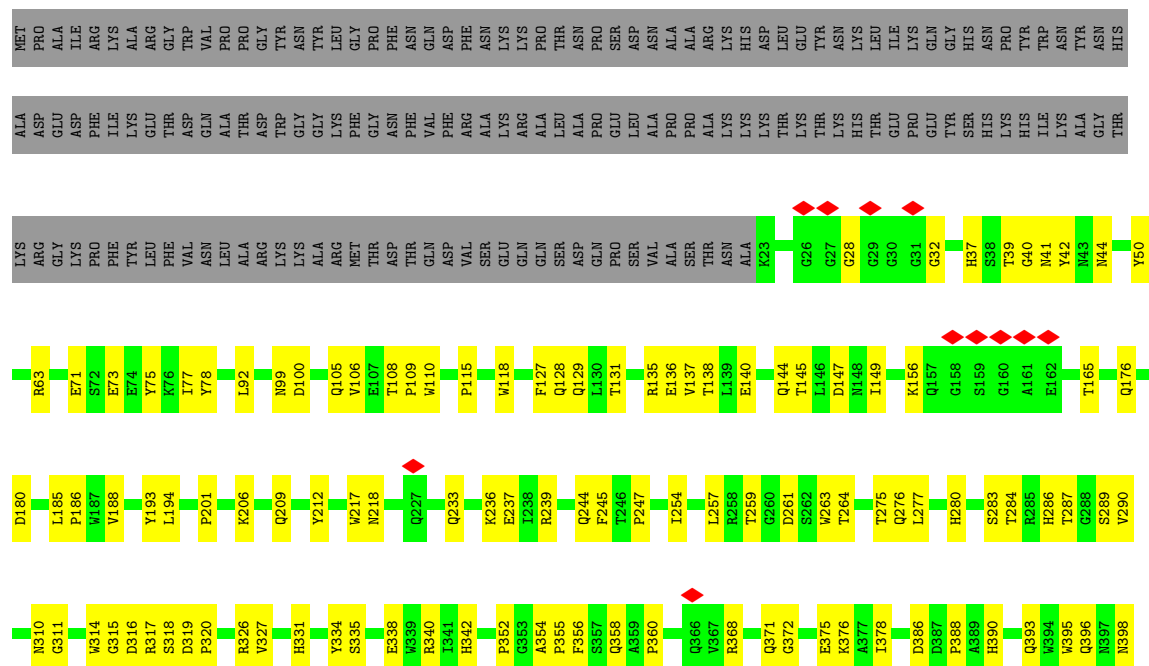


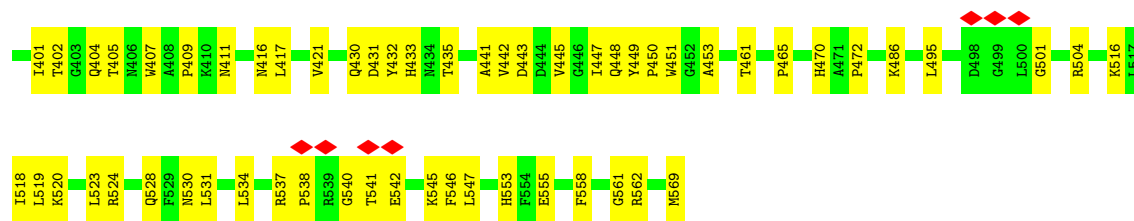


- Molecule 1: VP1

- Molecule 1: VP1

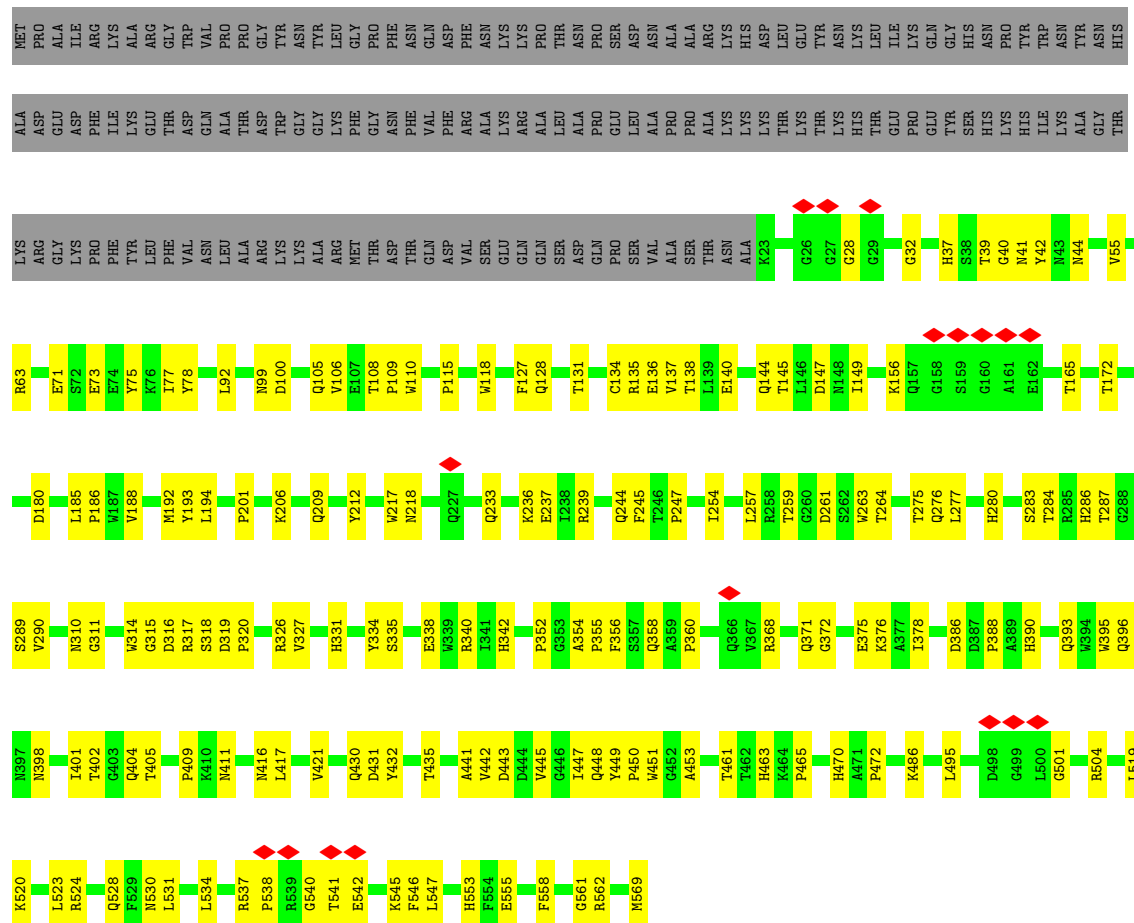






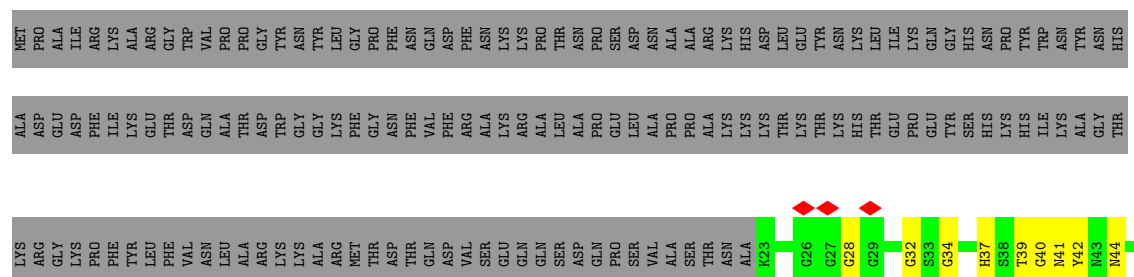
• Molecule 1: VP1

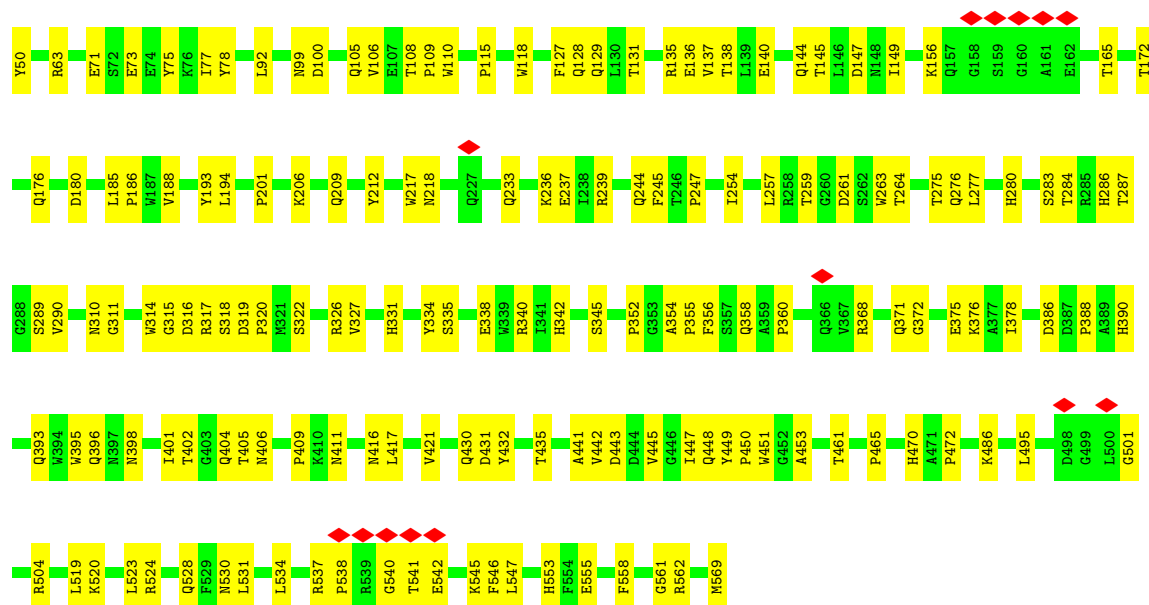
Chain S: 54% 24% 23%



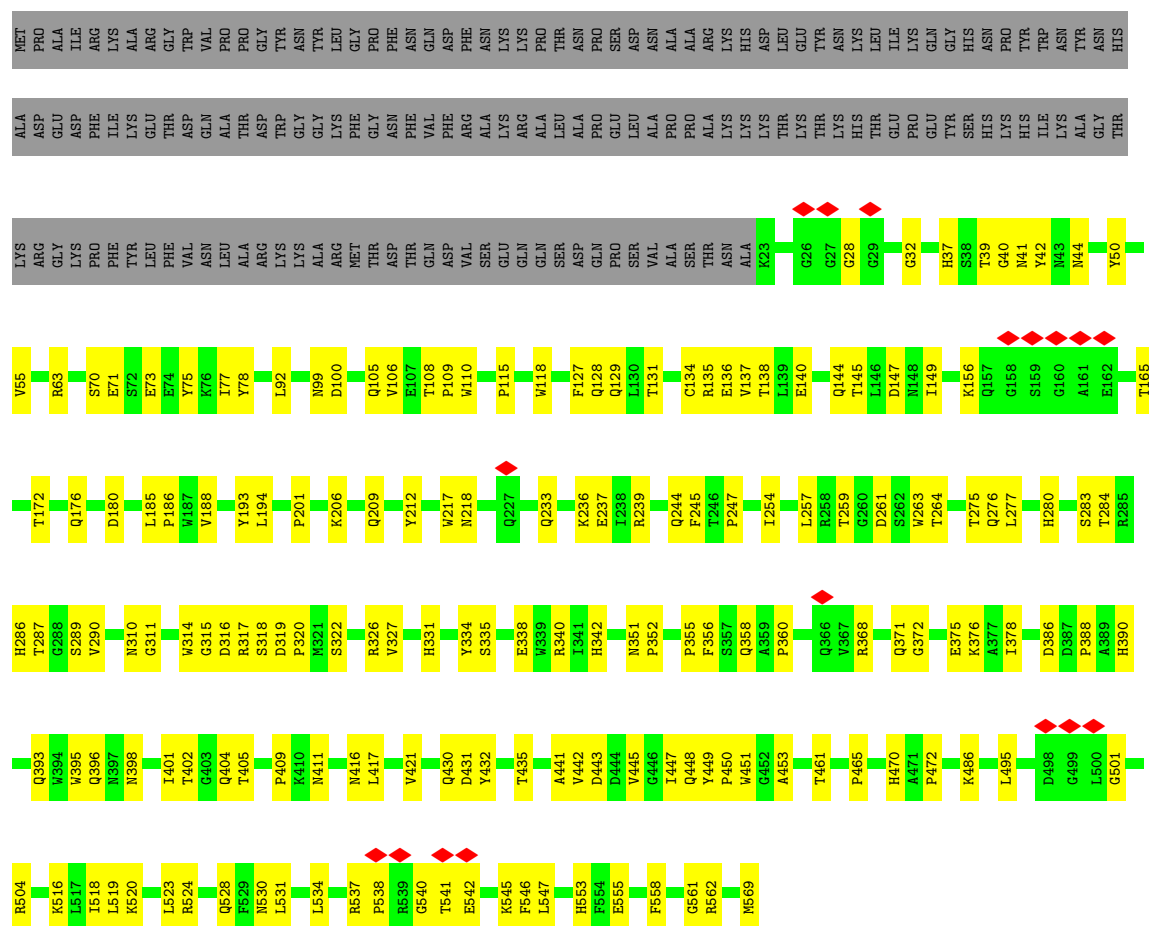
• Molecule 1: VP1

Chain T: 53% 24% 23%



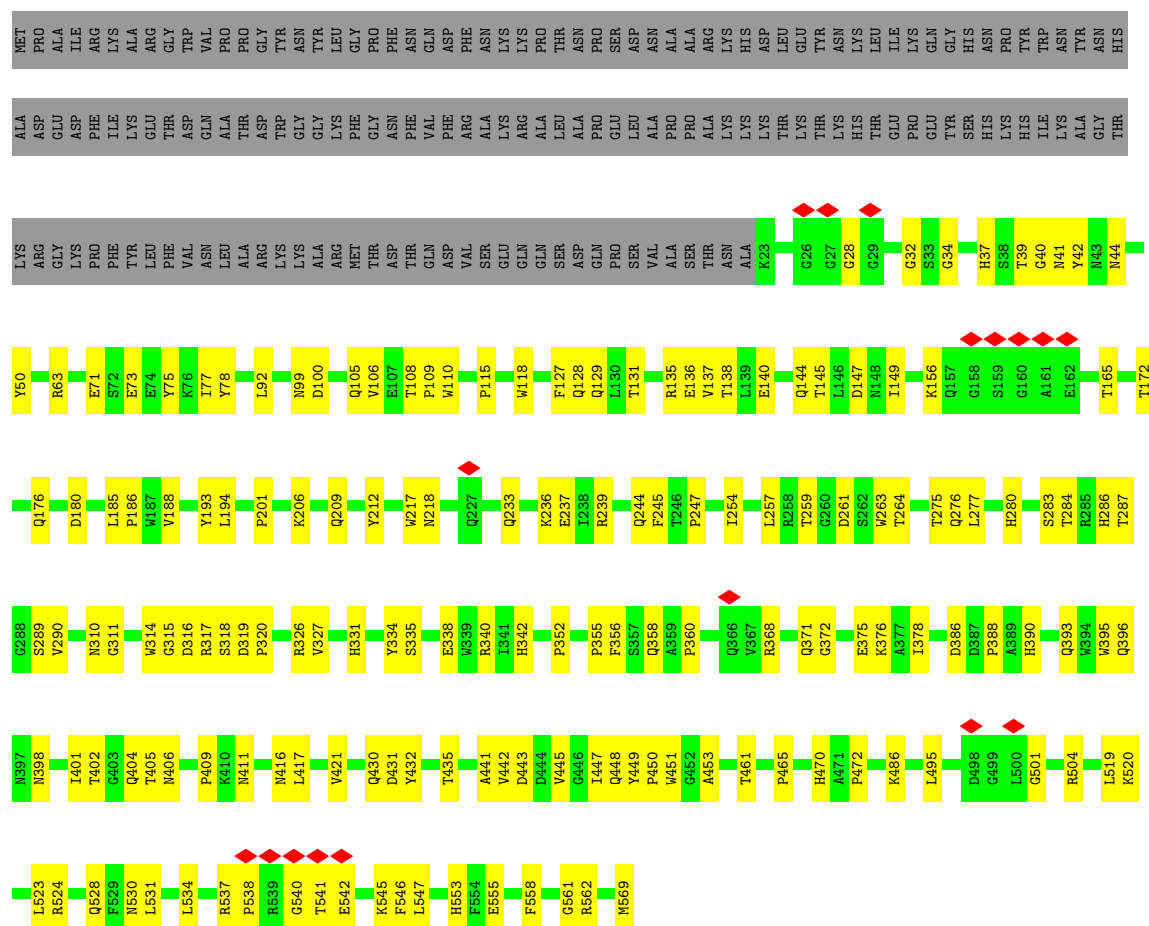


• Molecule 1: VP1



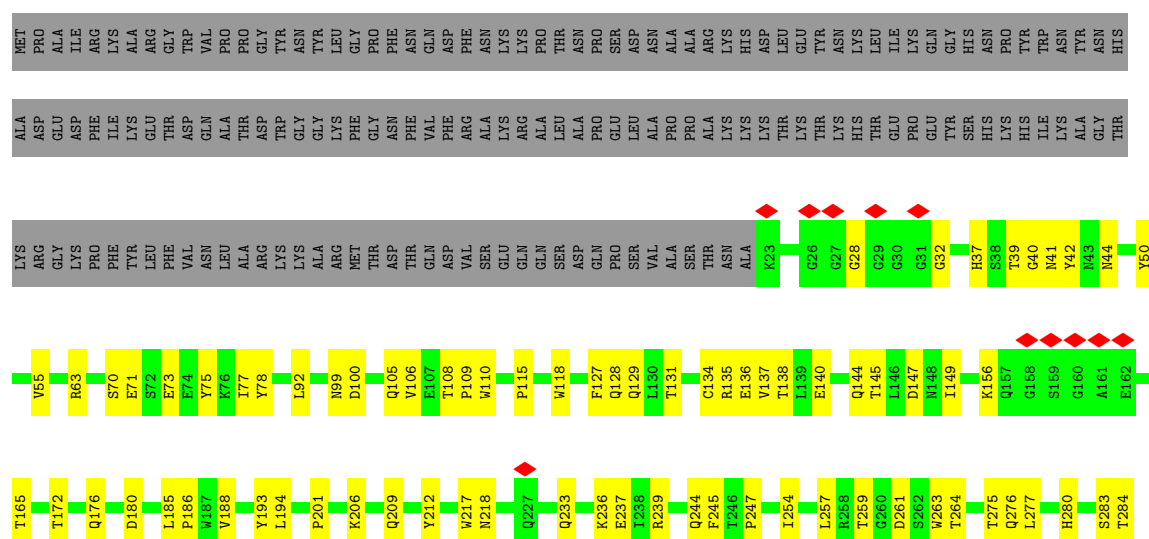
• Molecule 1: VP1

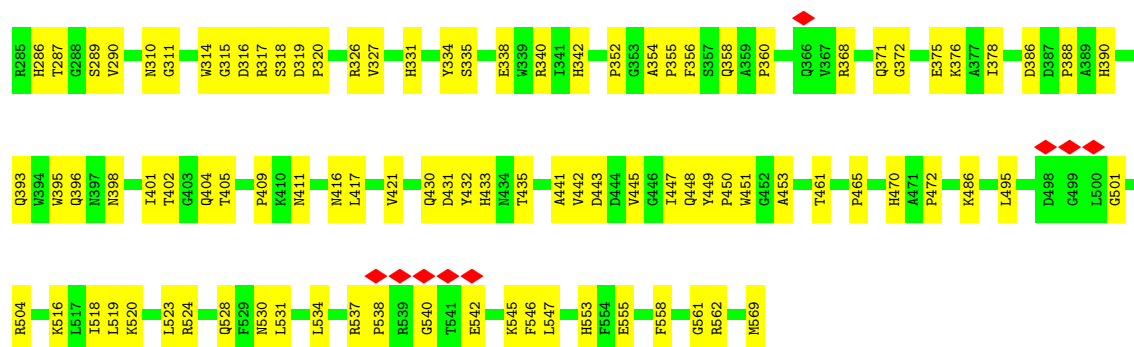
Chain V: 



• Molecule 1: VP1

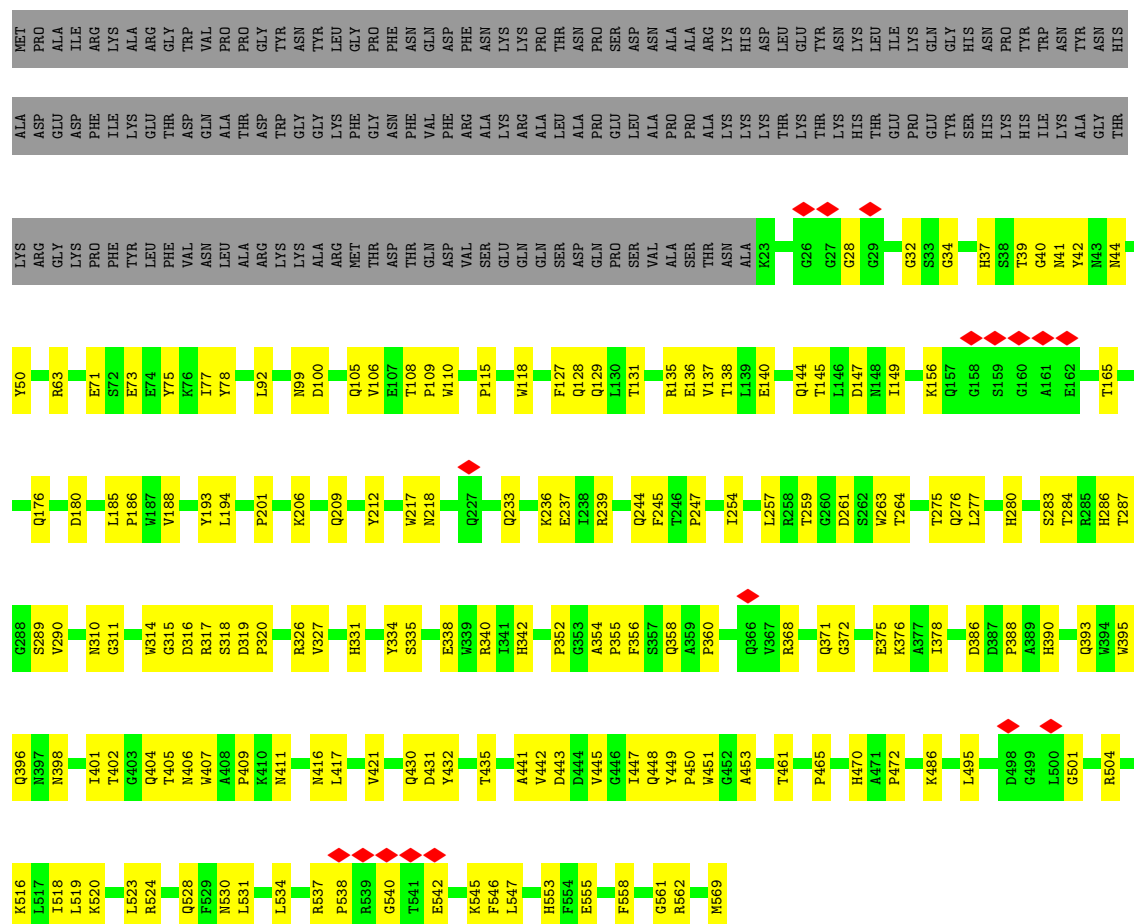
Chain W: 





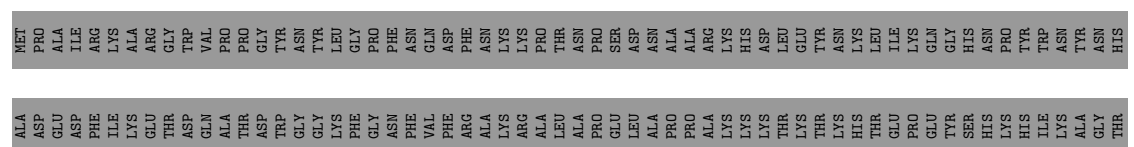
• Molecule 1: VP1

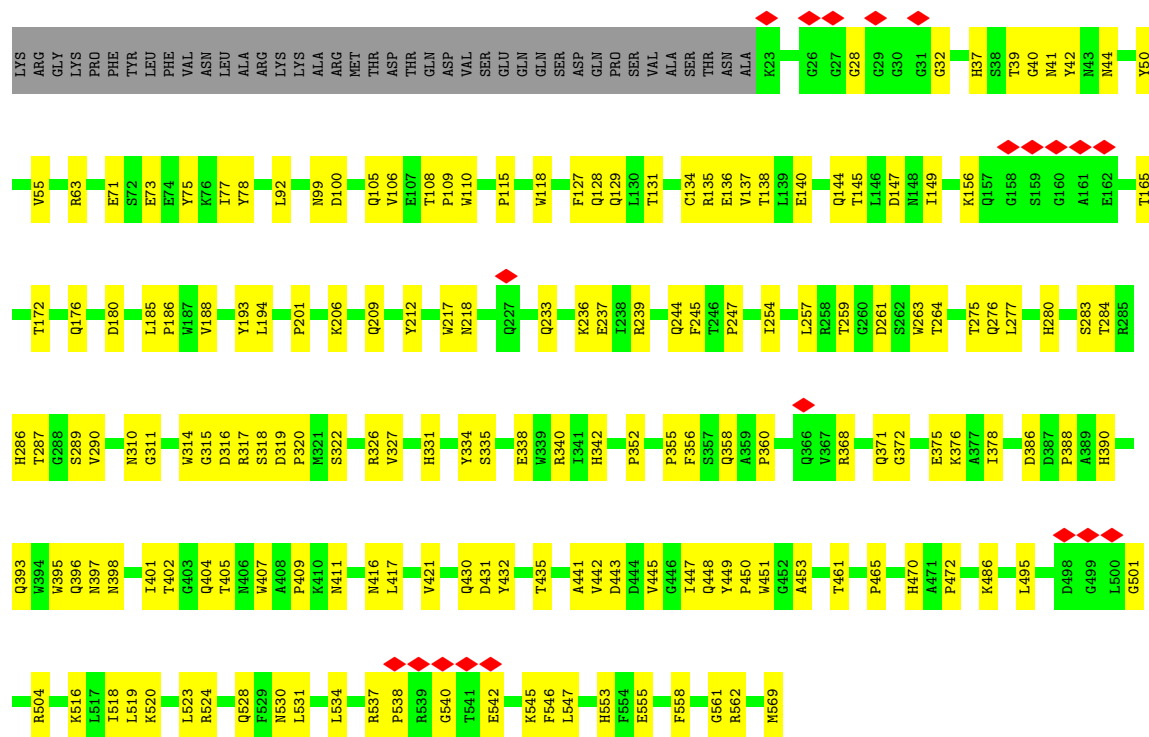
Chain X: 53% 24% 23%



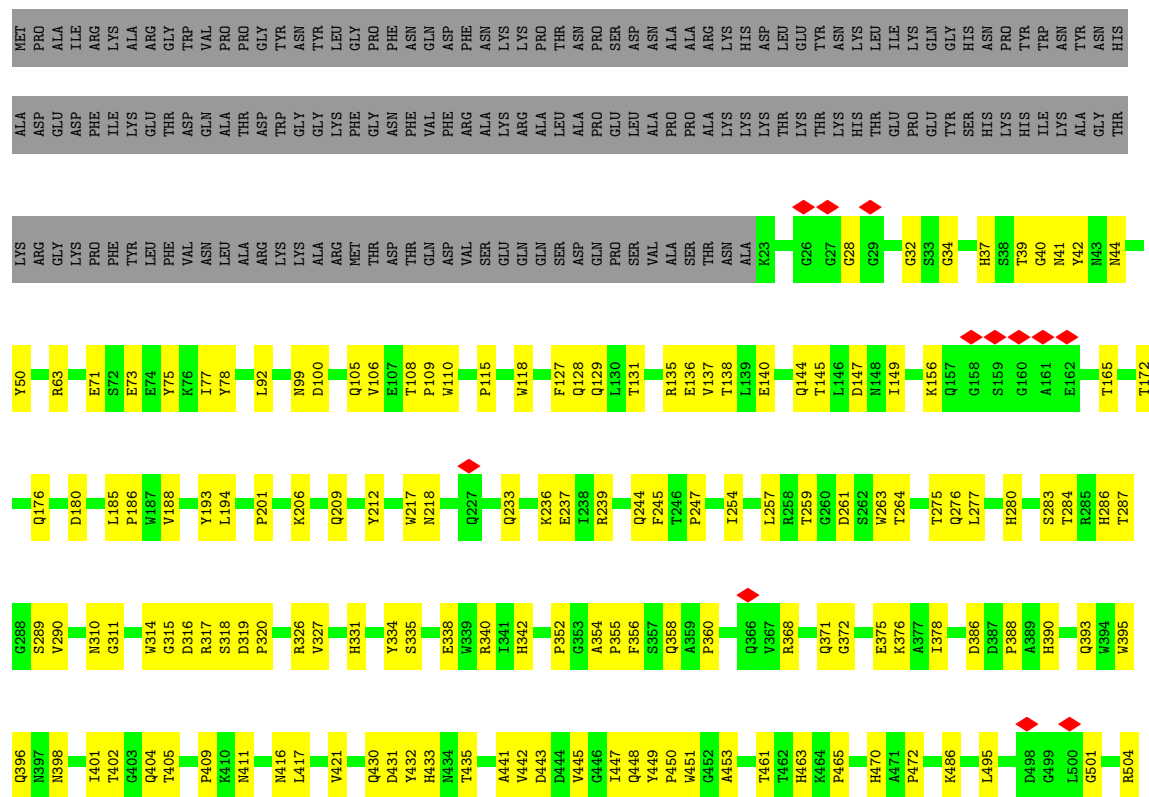
• Molecule 1: VP1

Chain Y: 53% 24% 23%





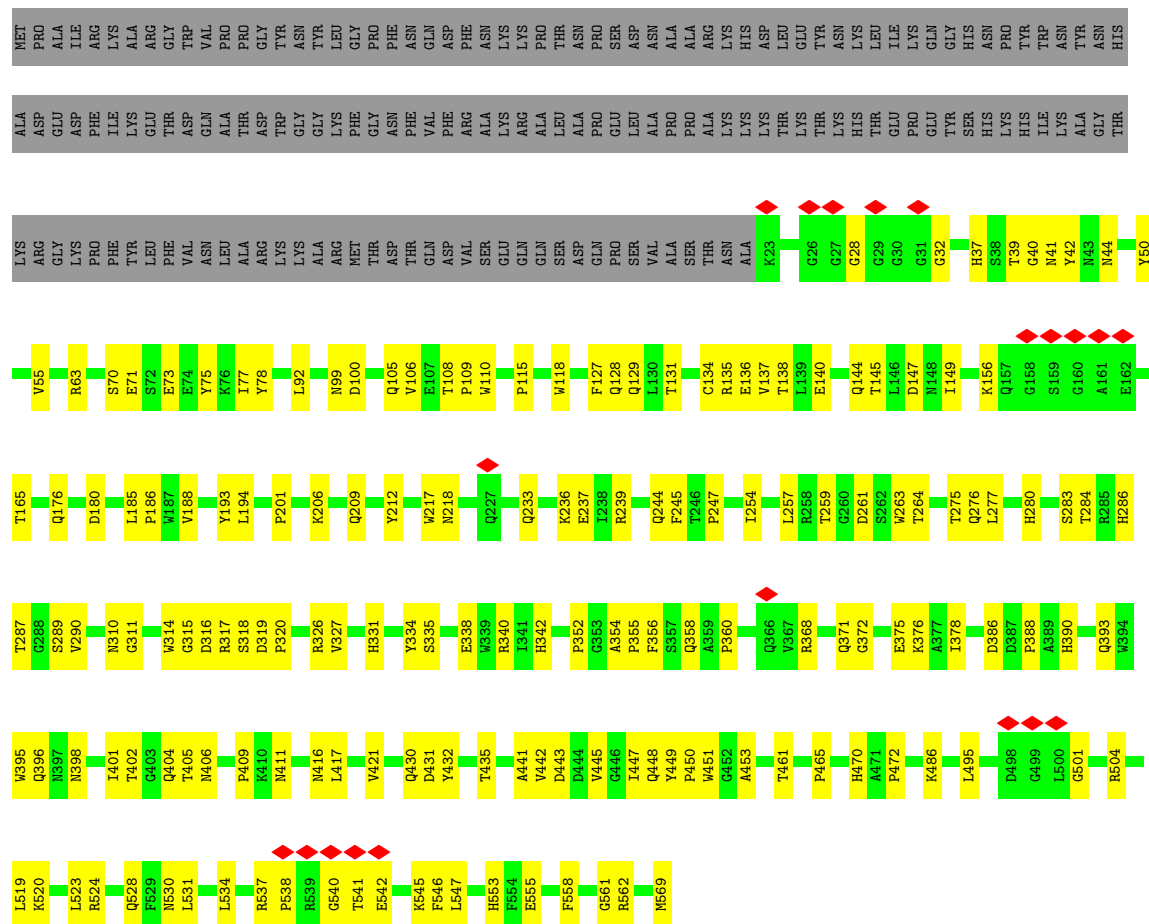
• Molecule 1: VP1





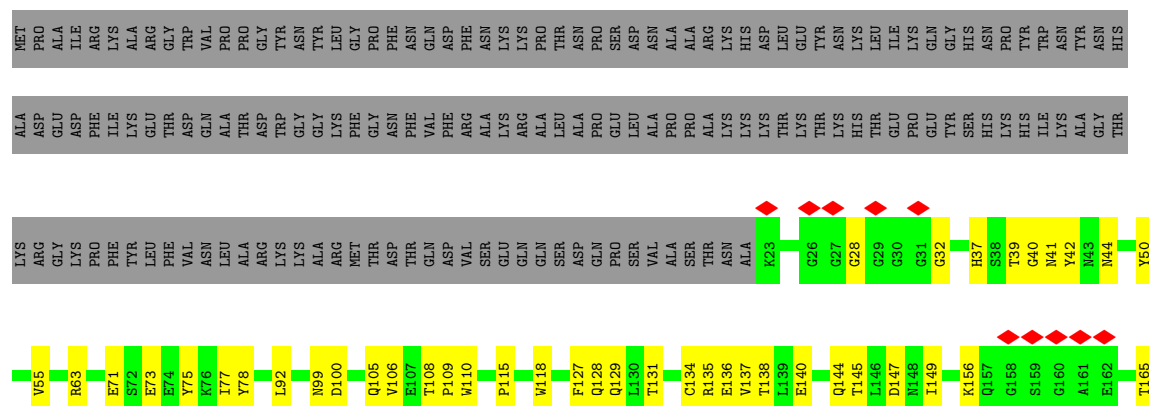
• Molecule 1: VP1

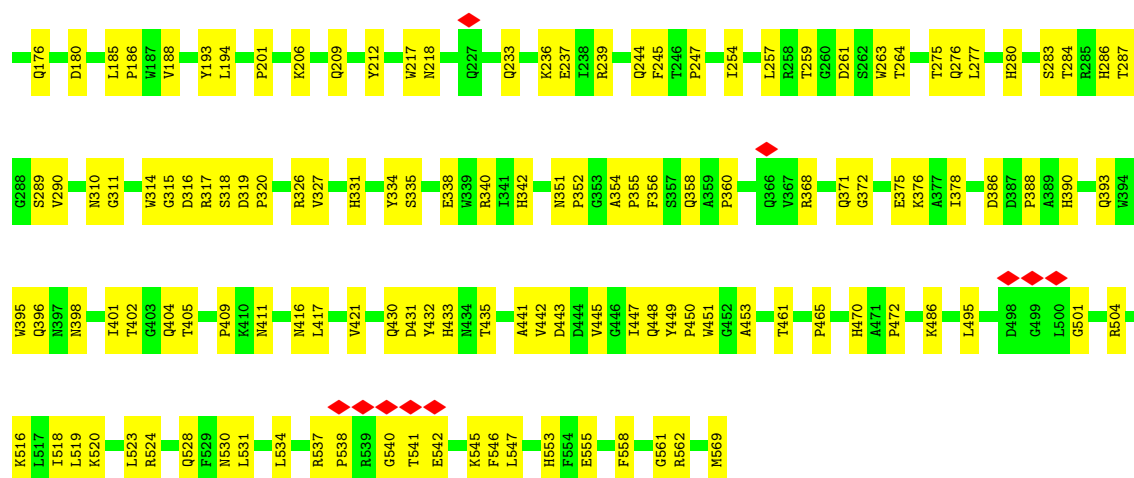
Chain a: 53% 24% 23%



• Molecule 1: VP1

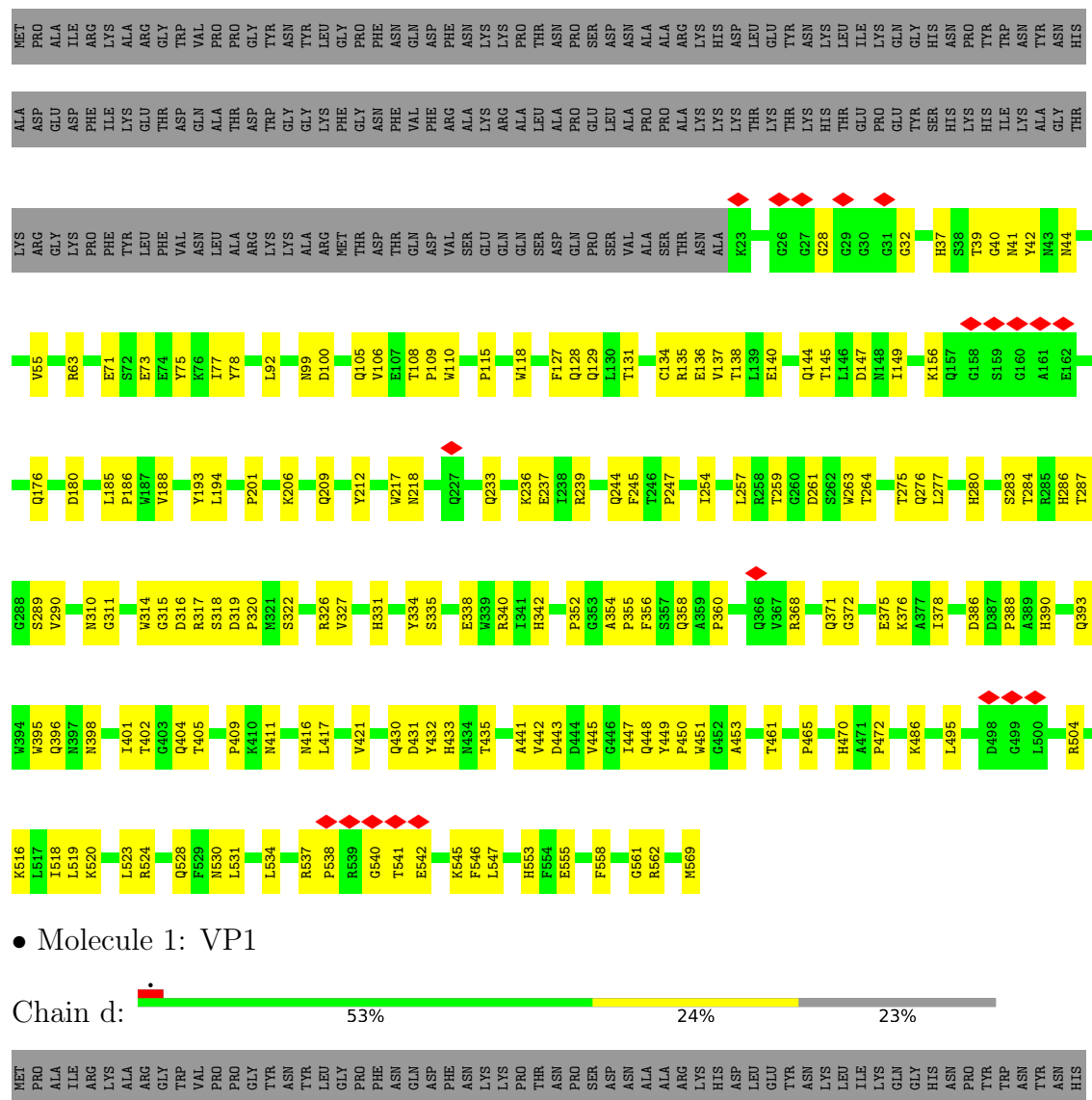
Chain b: 53% 24% 23%





• Molecule 1: VP1

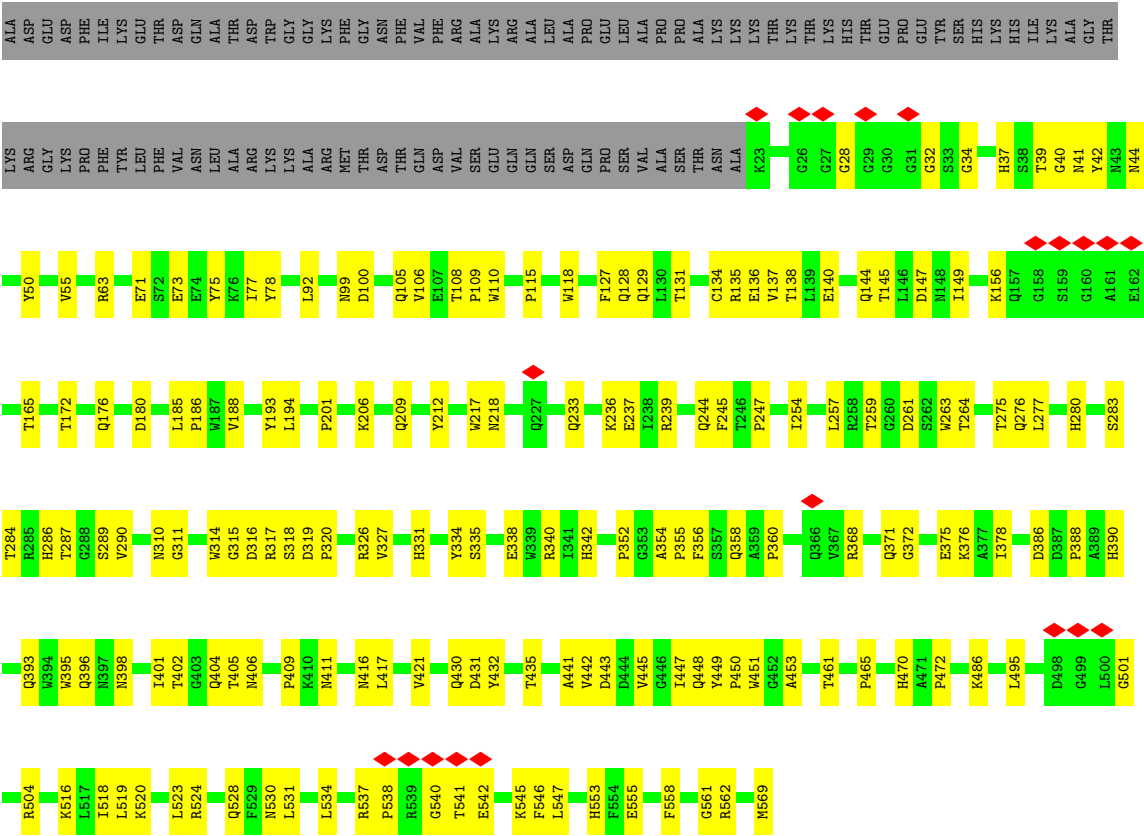
Chain c:



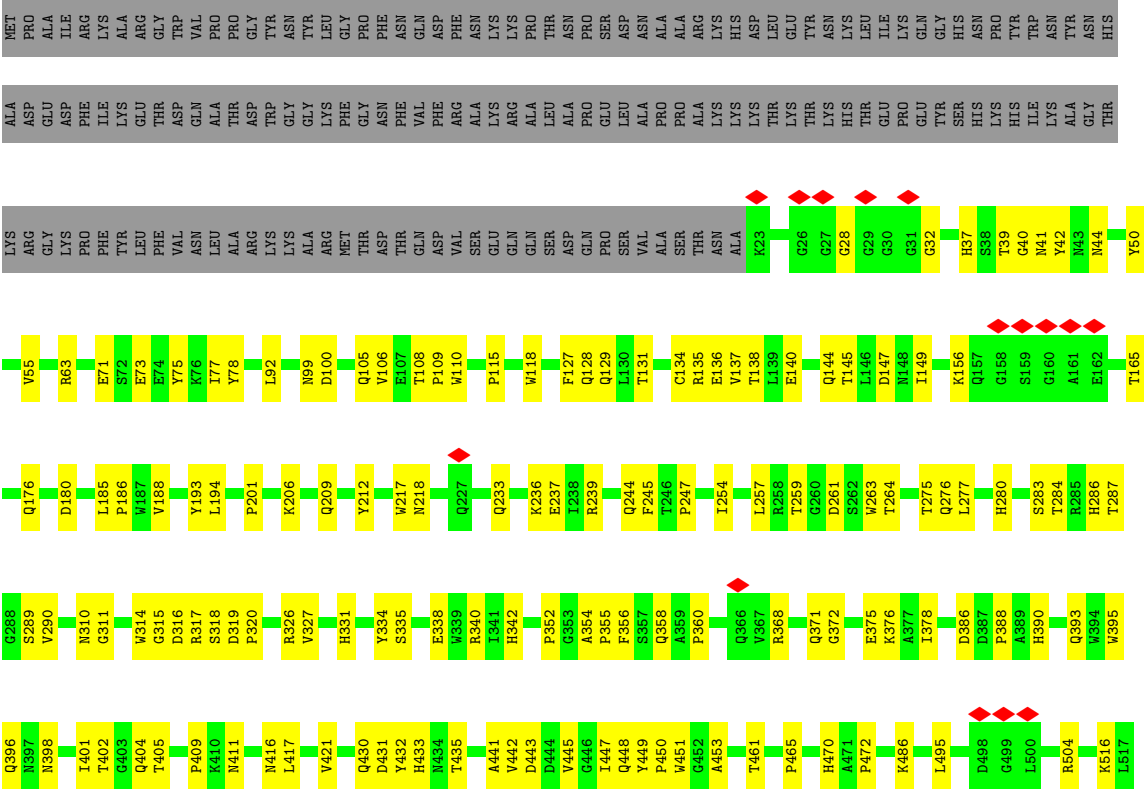
• Molecule 1: VP1

Chain d:



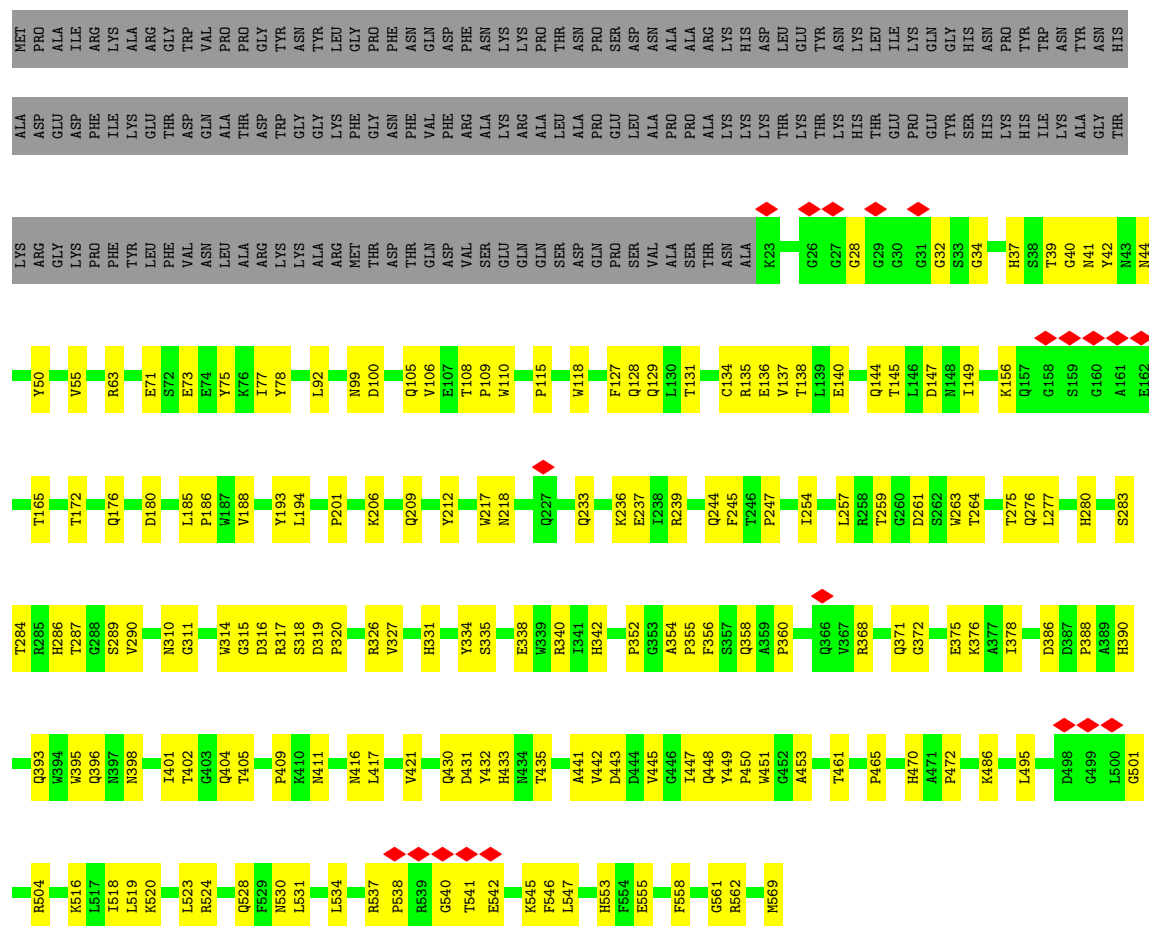


● Molecule 1: VP1

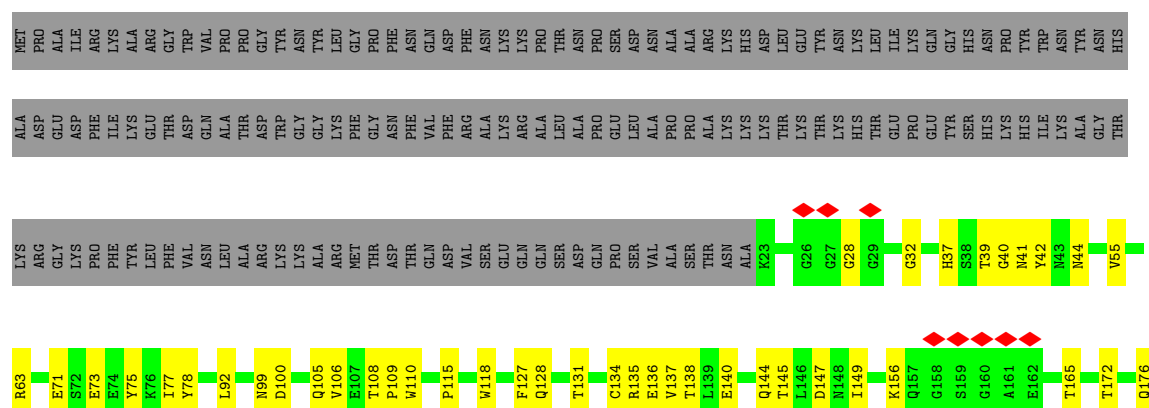


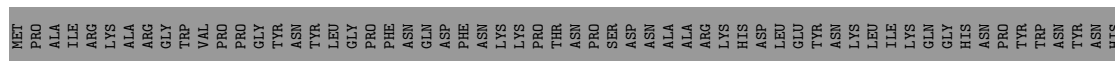


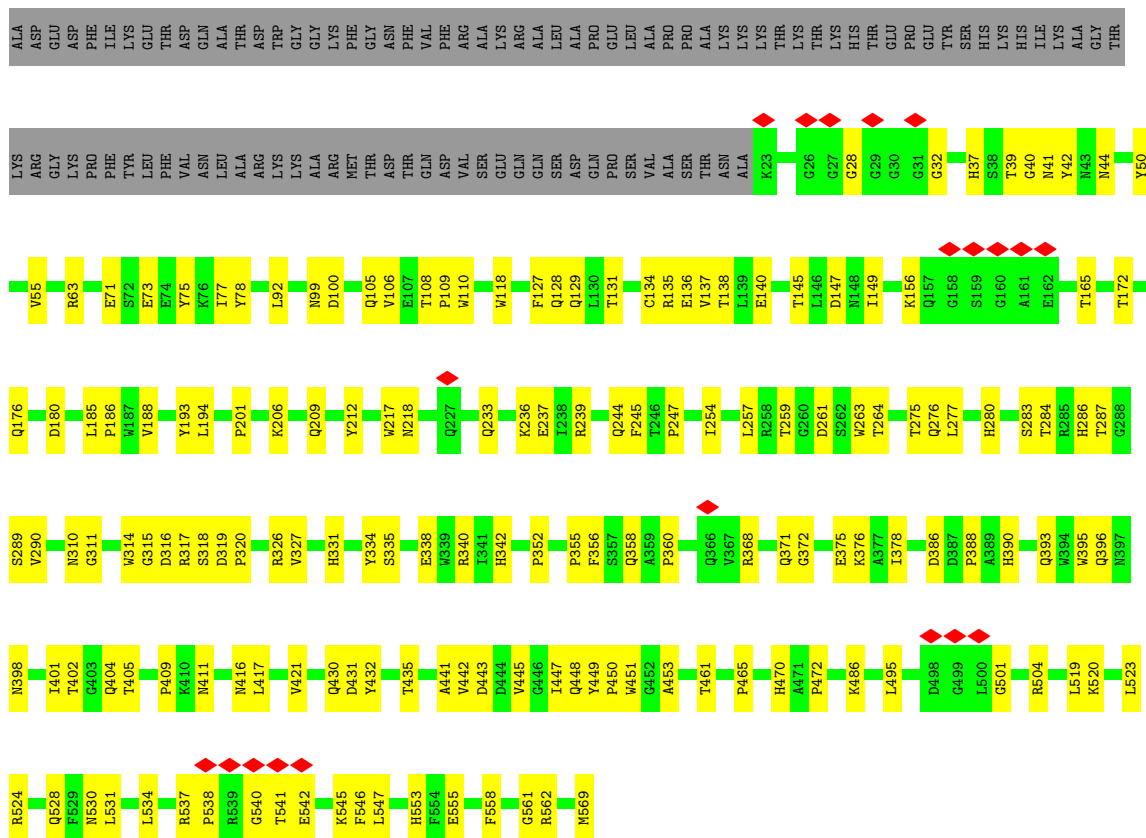
• Molecule 1: VP1



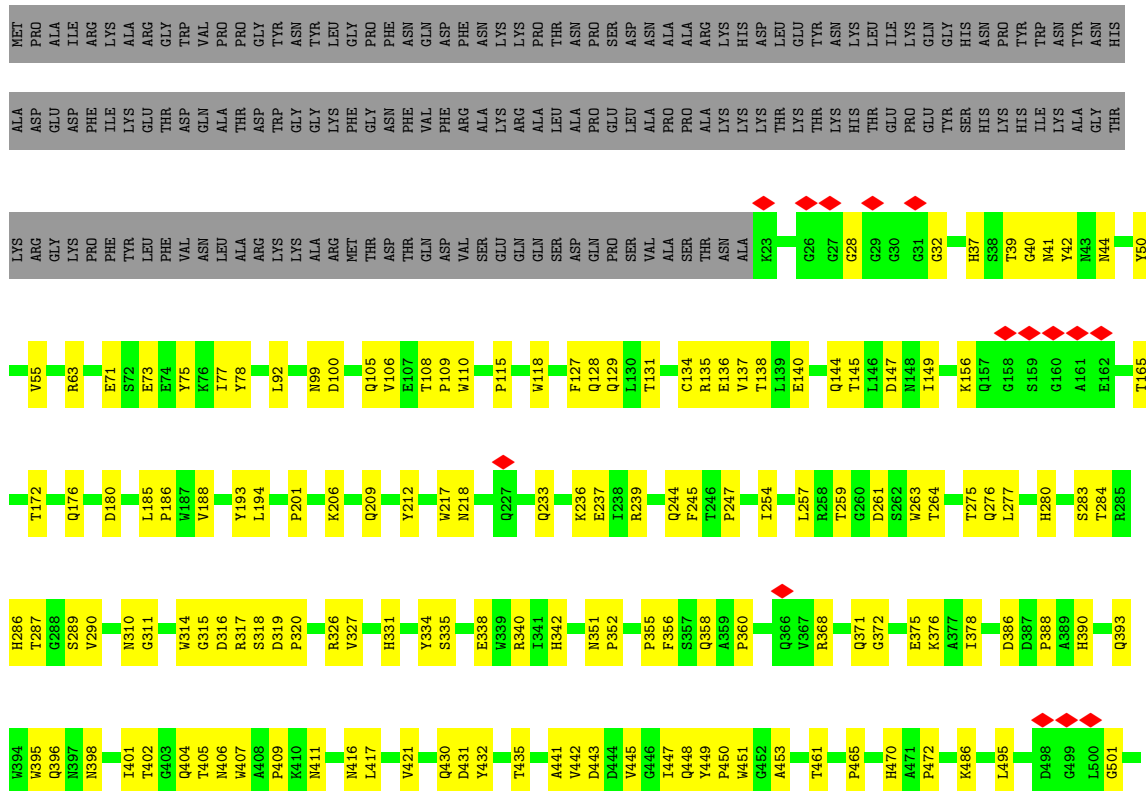
• Molecule 1: VP1





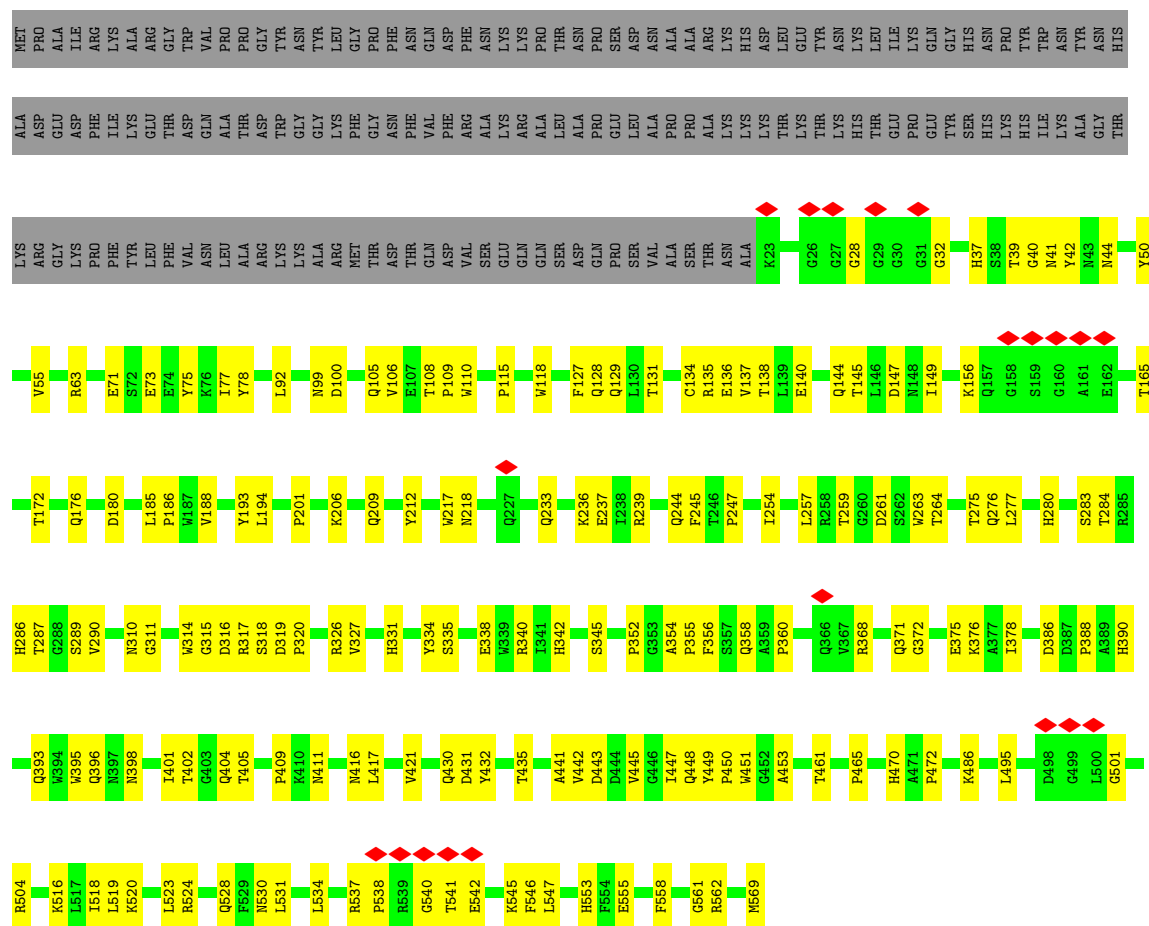


- Molecule 1: VP1

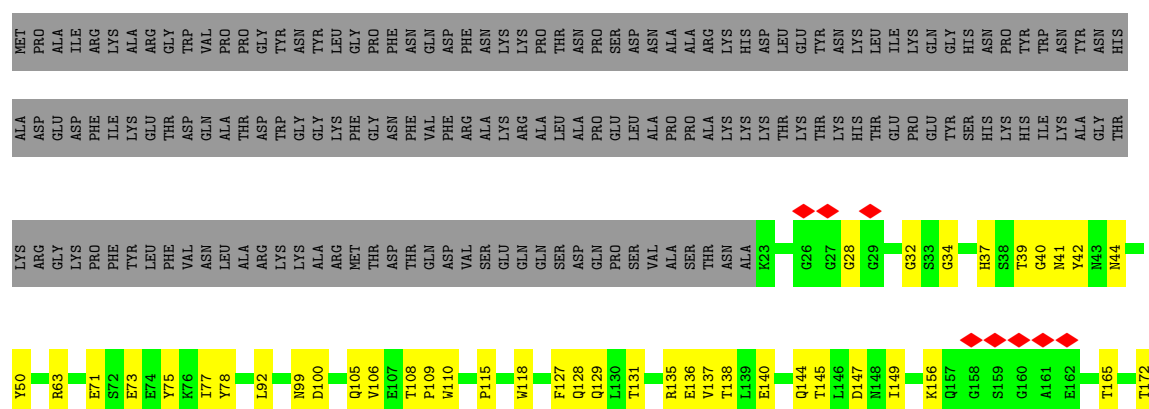


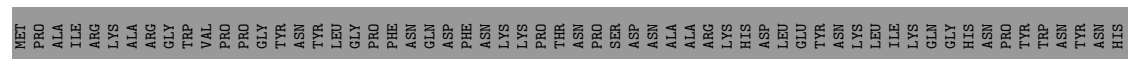


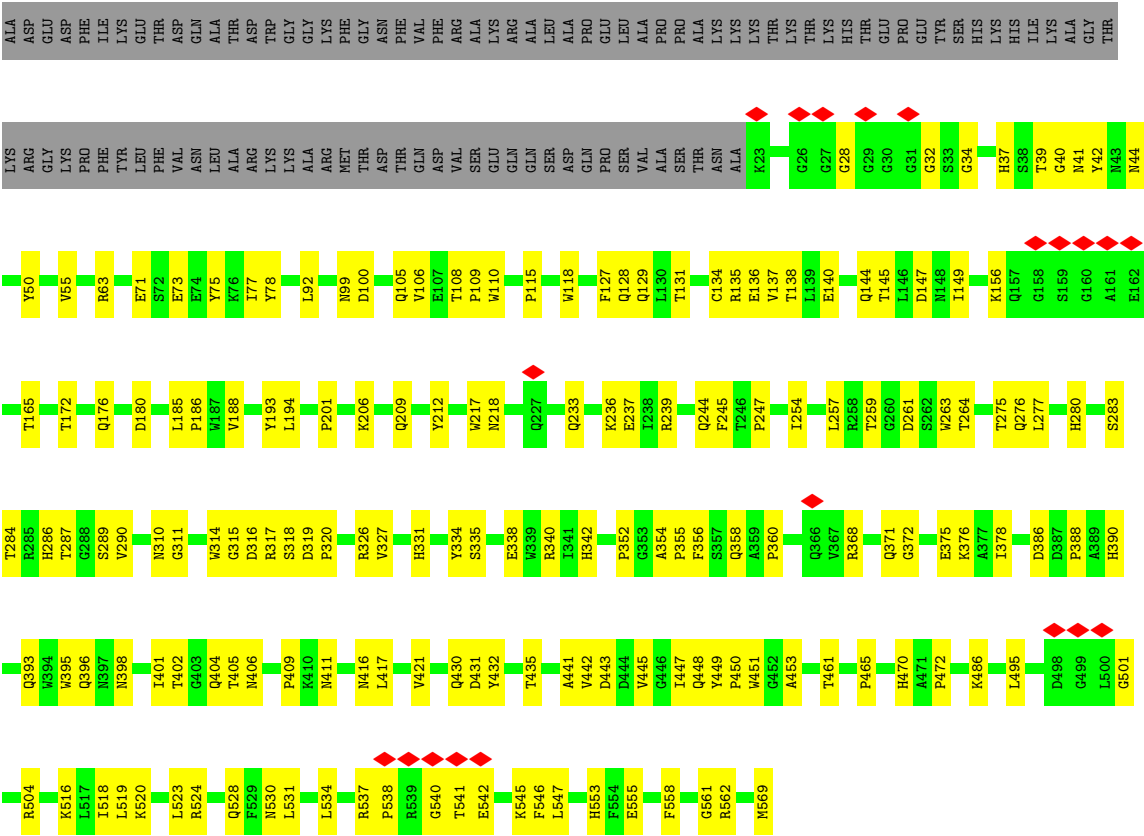
• Molecule 1: VP1



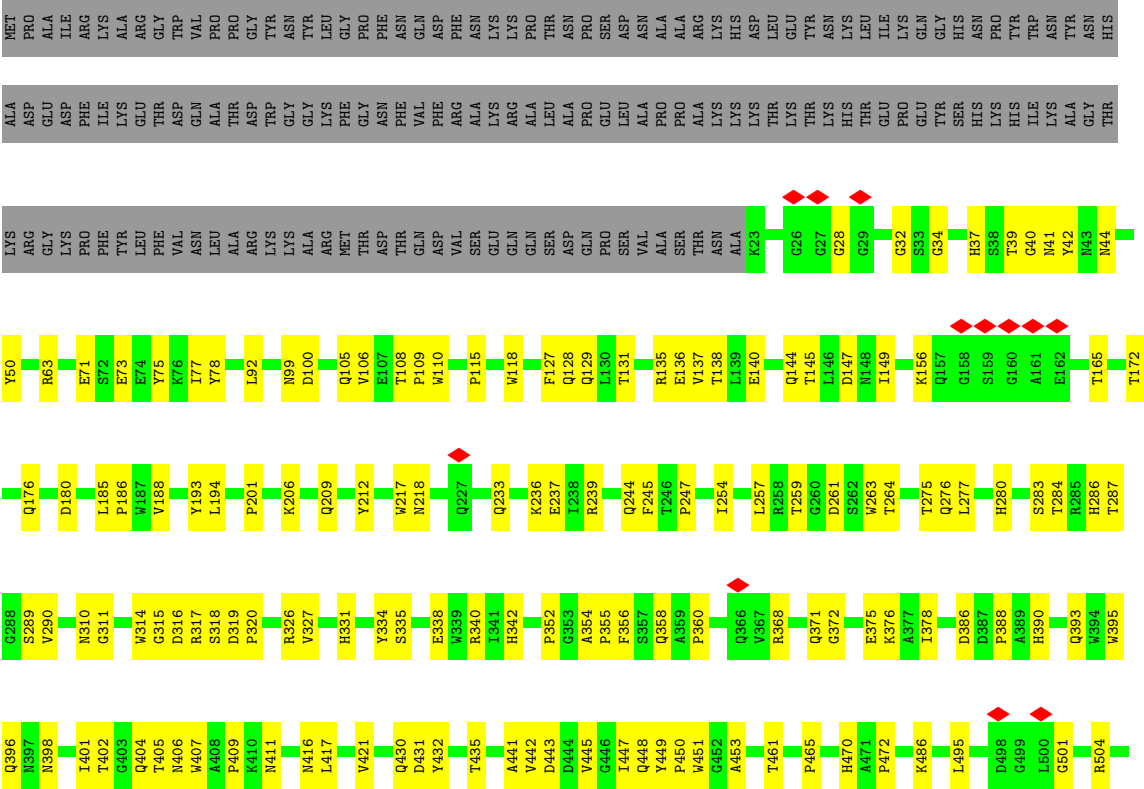
• Molecule 1: VP1

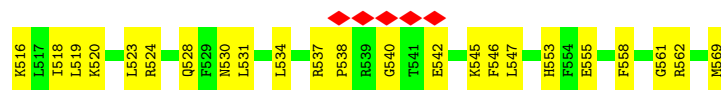




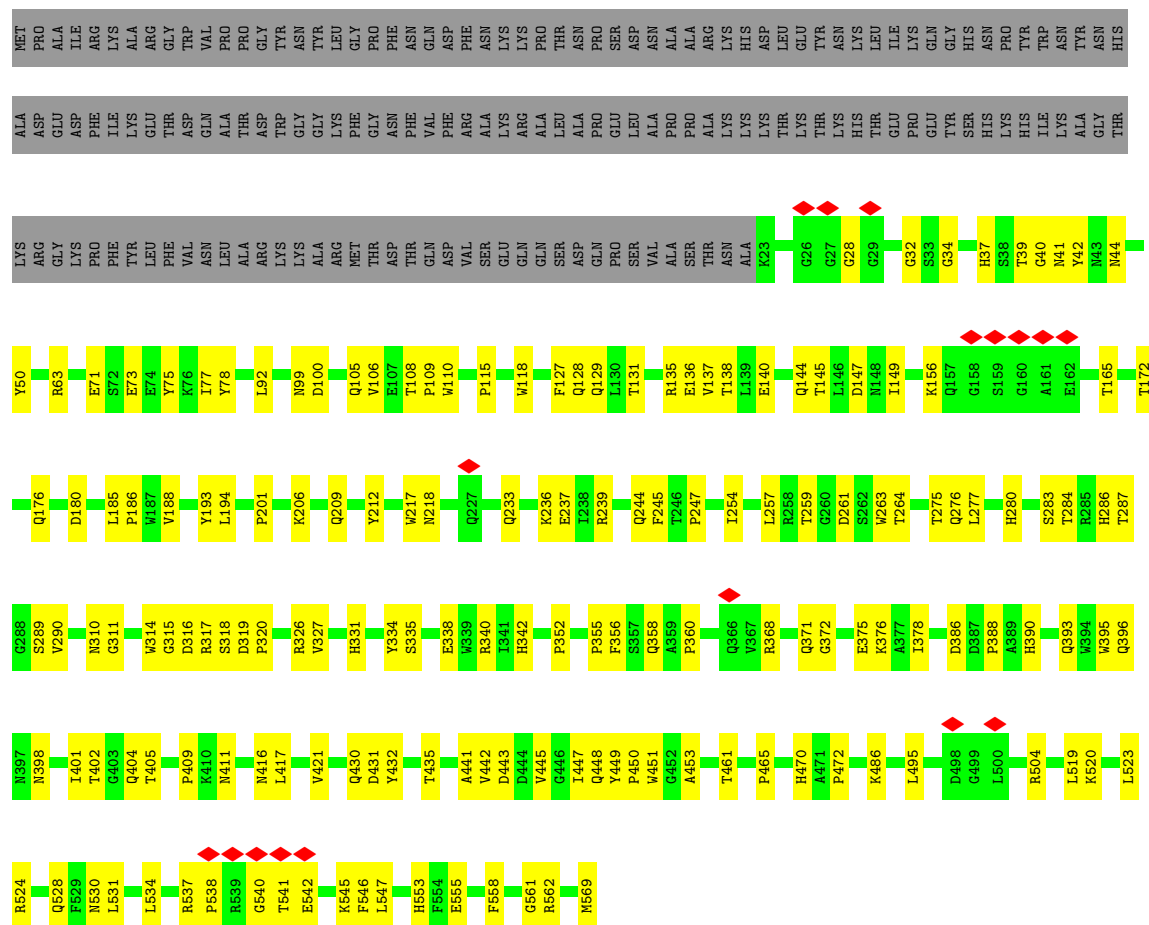


● Molecule 1: VP1

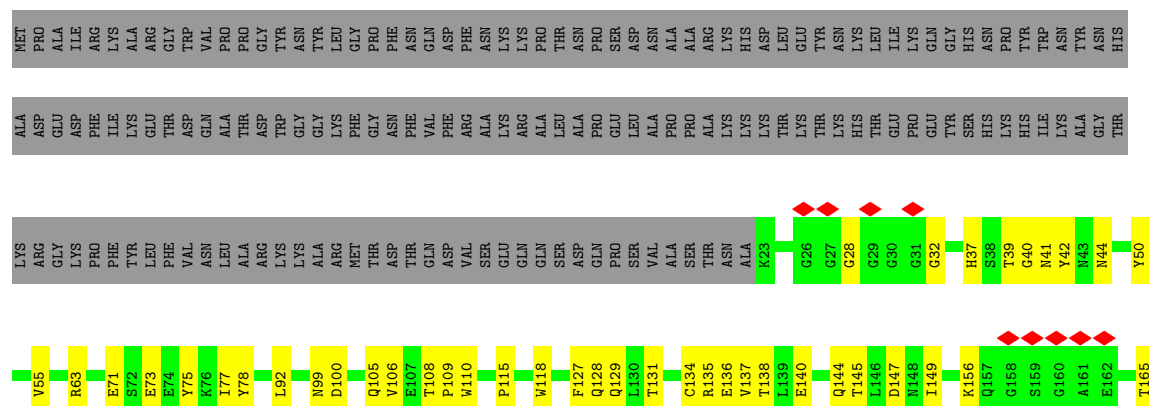


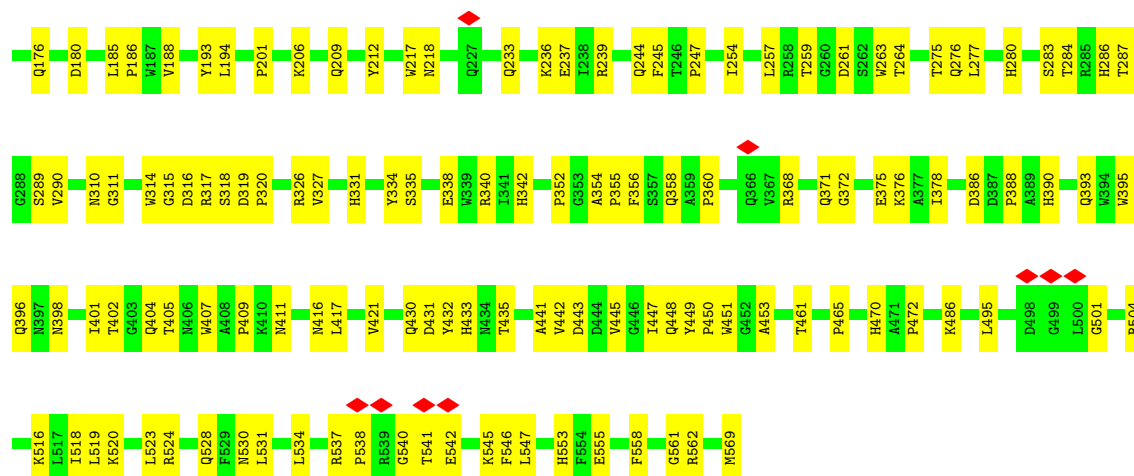


• Molecule 1: VP1

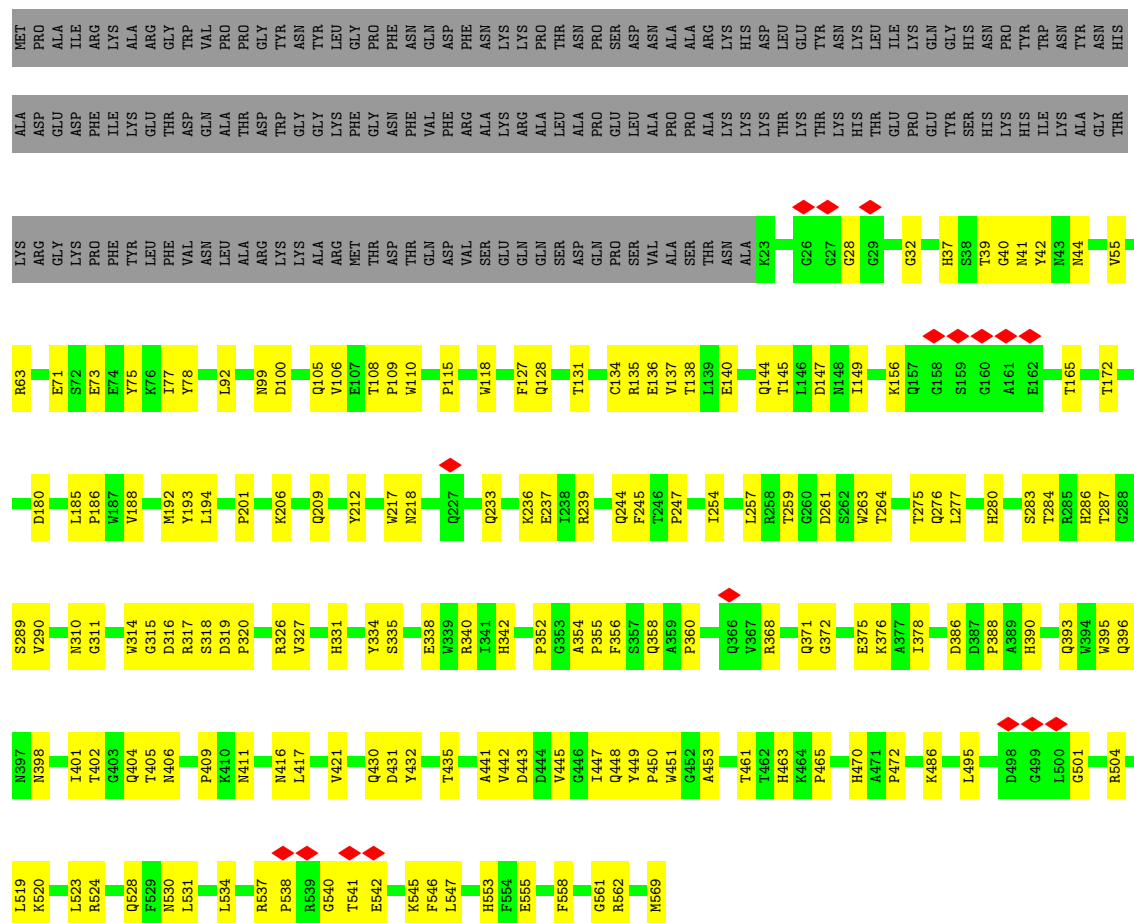


• Molecule 1: VP1

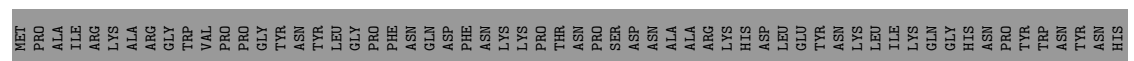


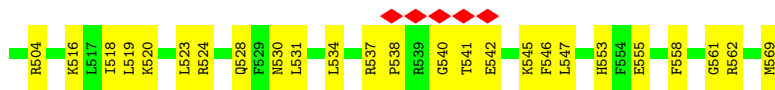


• Molecule 1: VP1

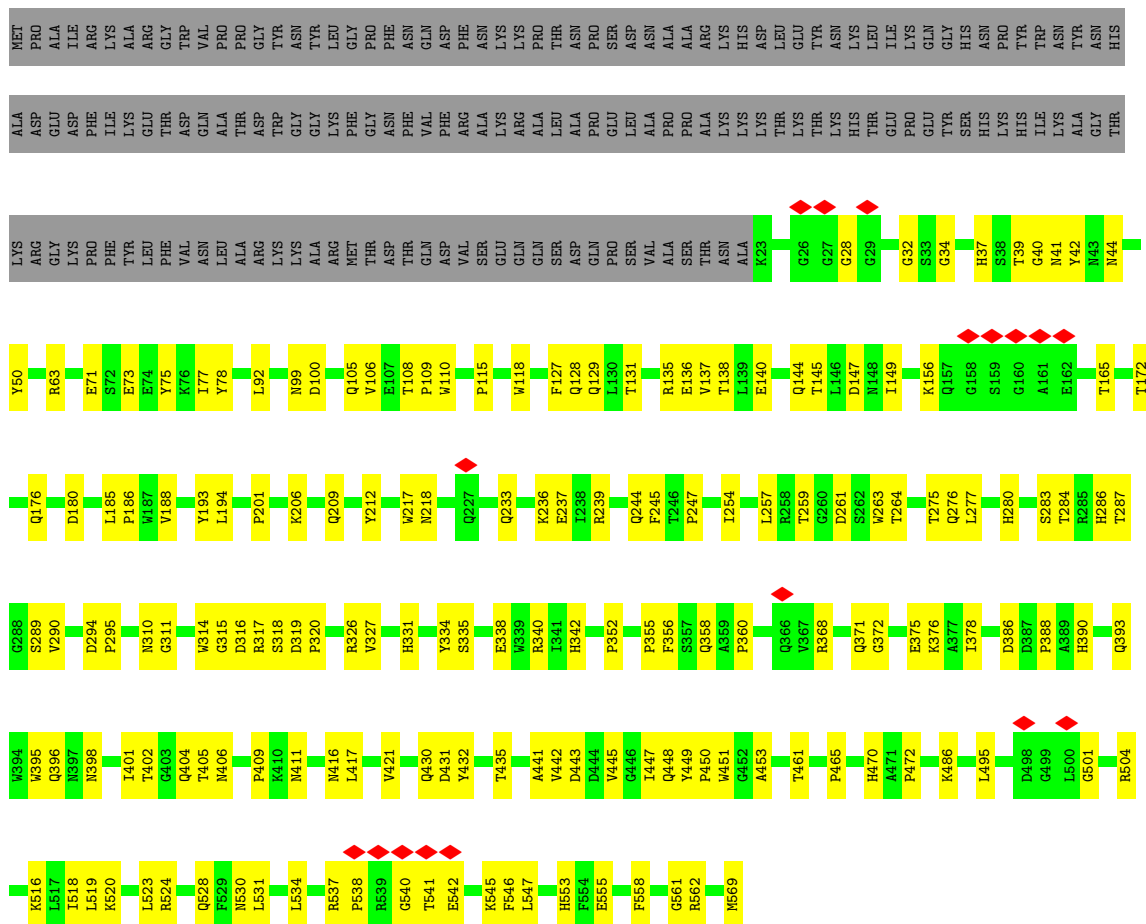


• Molecule 1: VP1

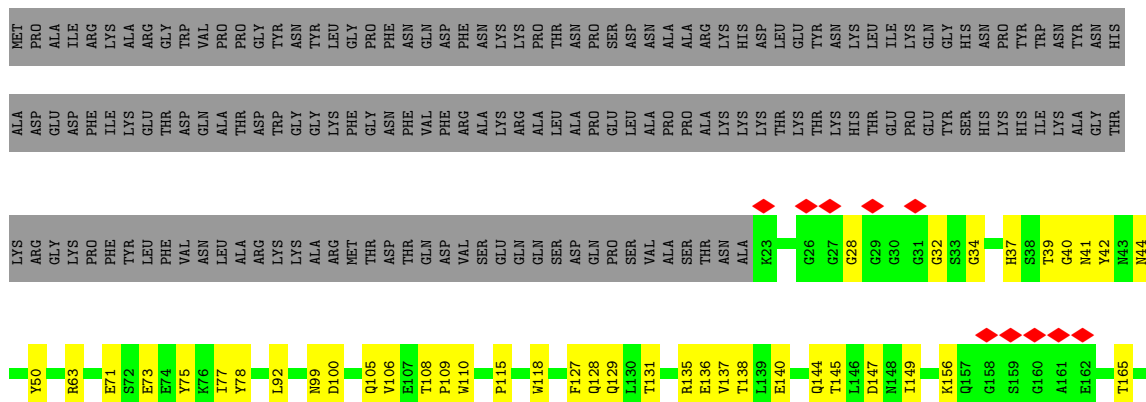


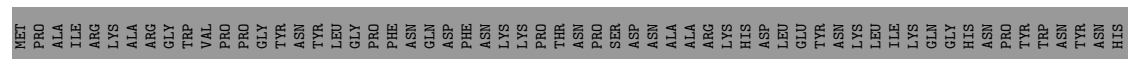


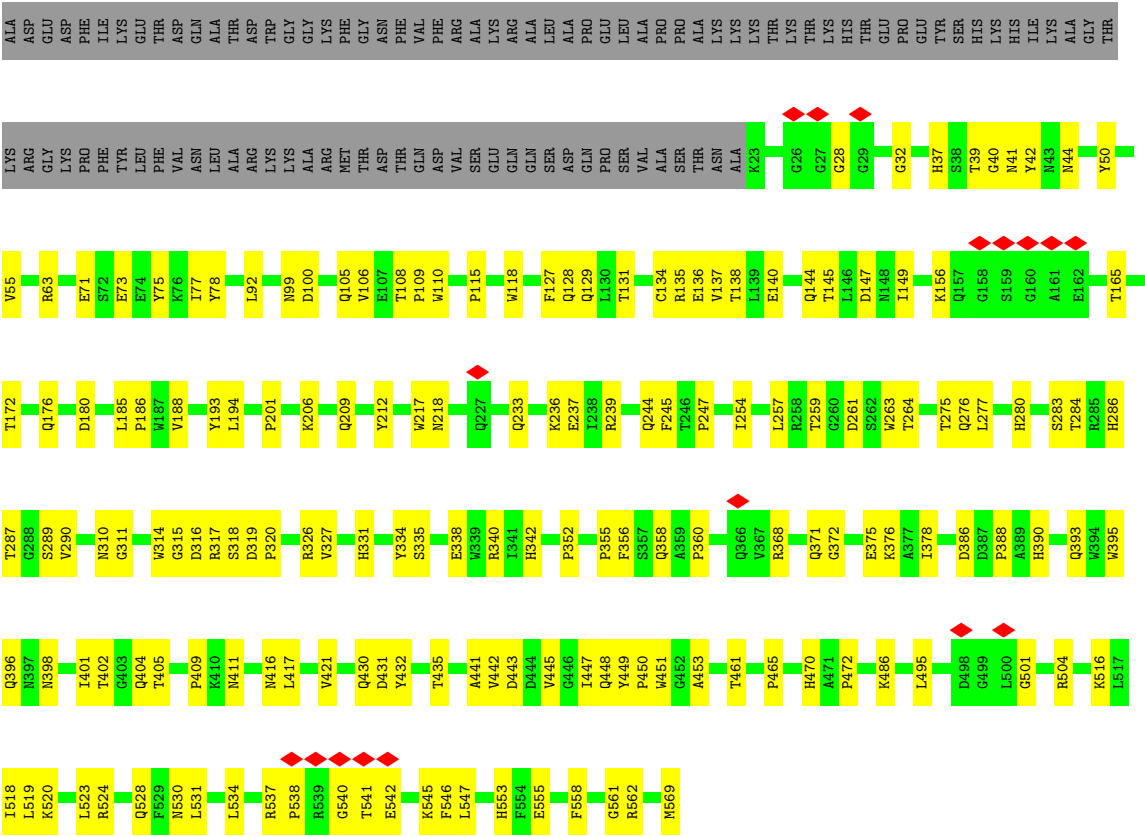
• Molecule 1: VP1



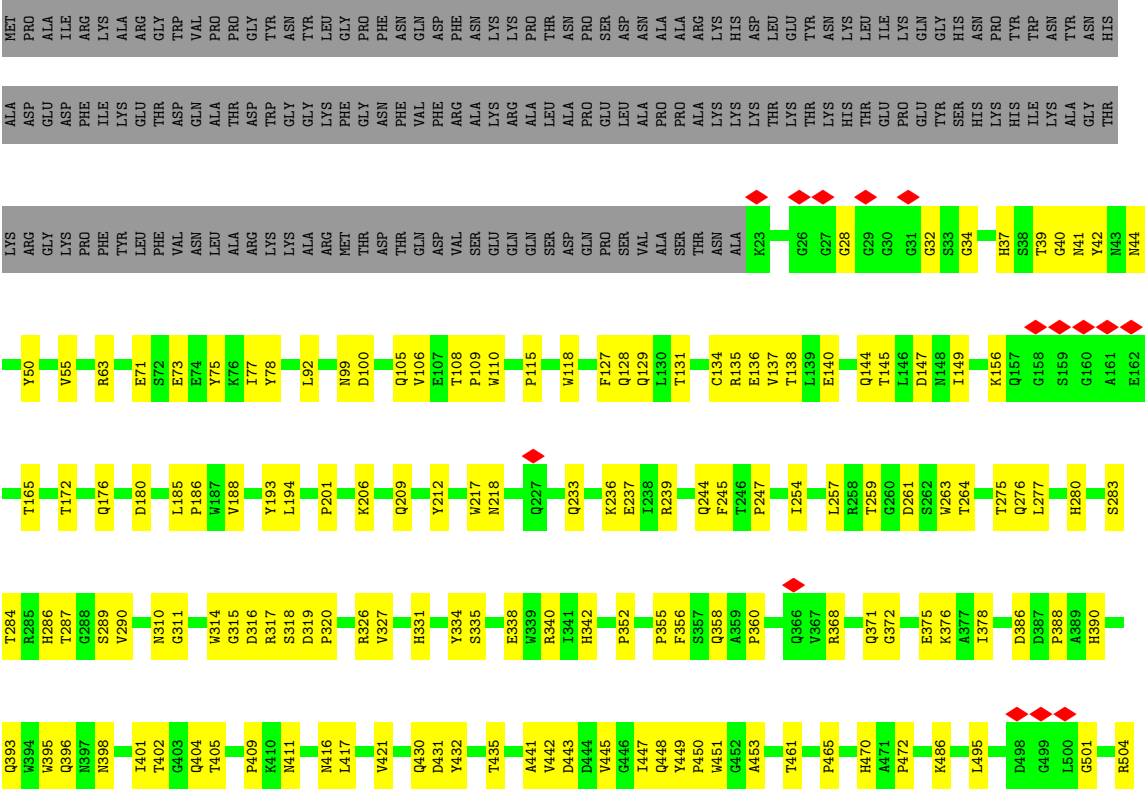
• Molecule 1: VP1

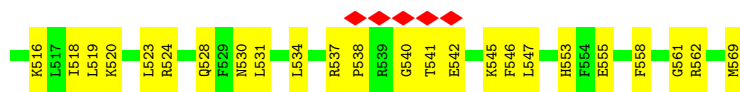




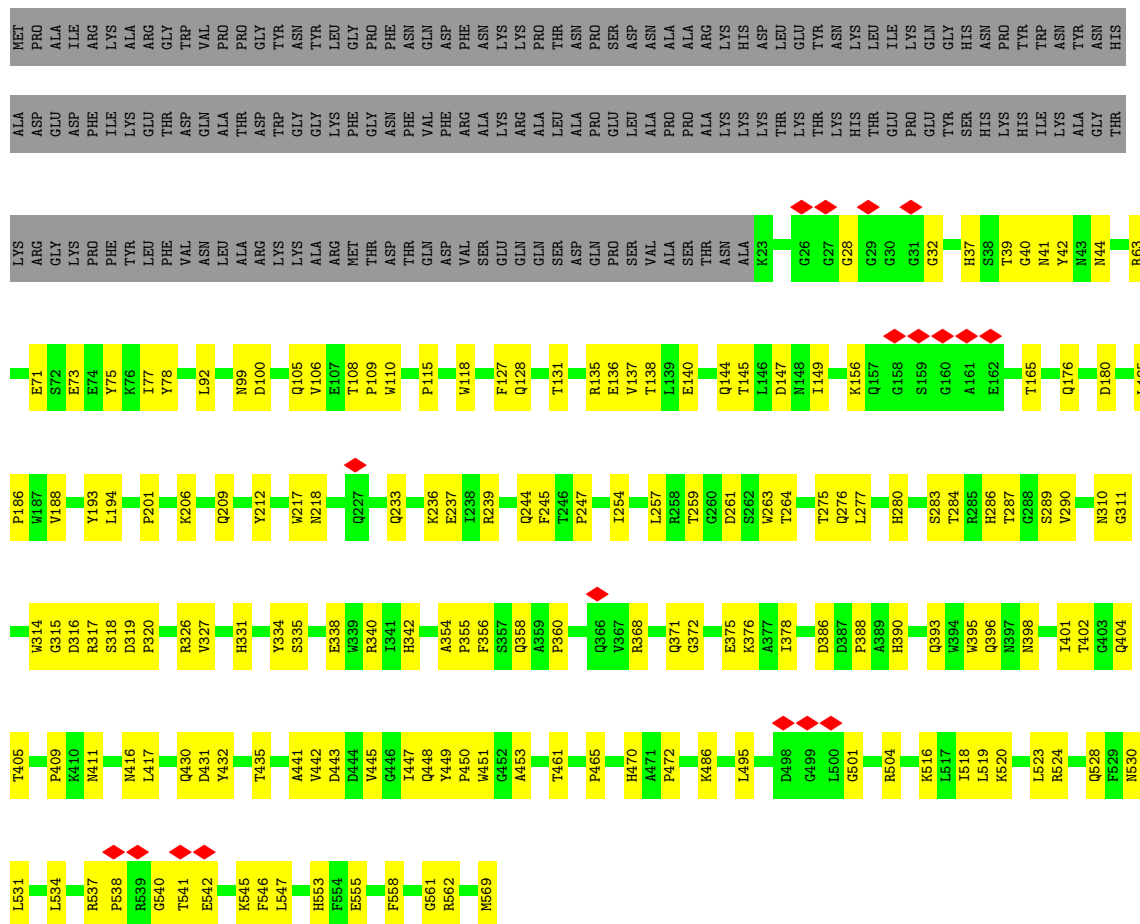


• Molecule 1: VP1

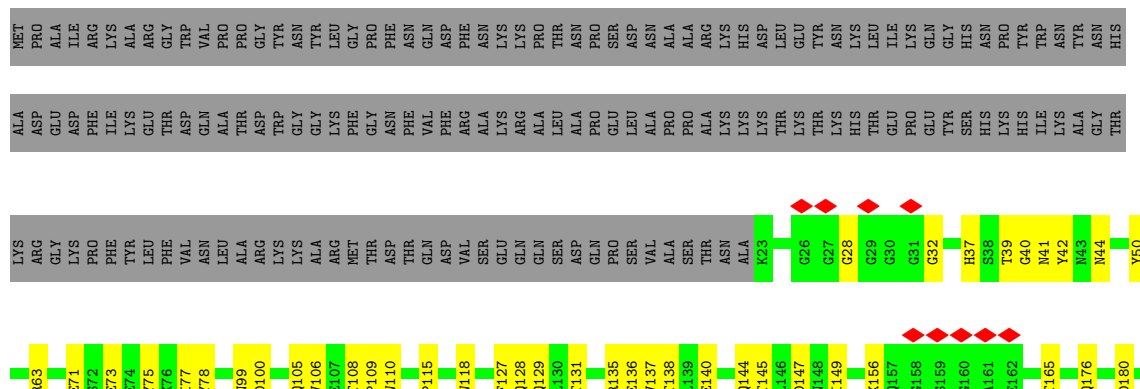


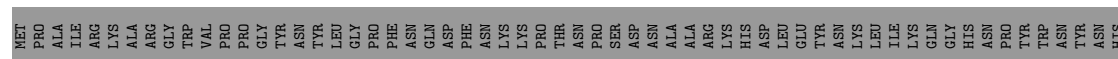


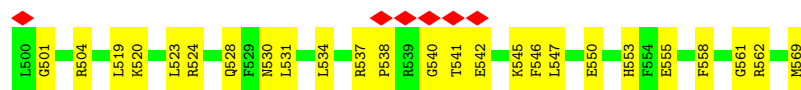
• Molecule 1: VP1



• Molecule 1: VP1

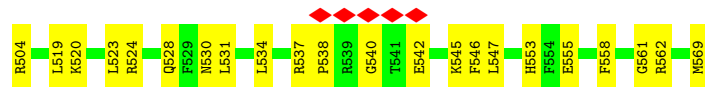
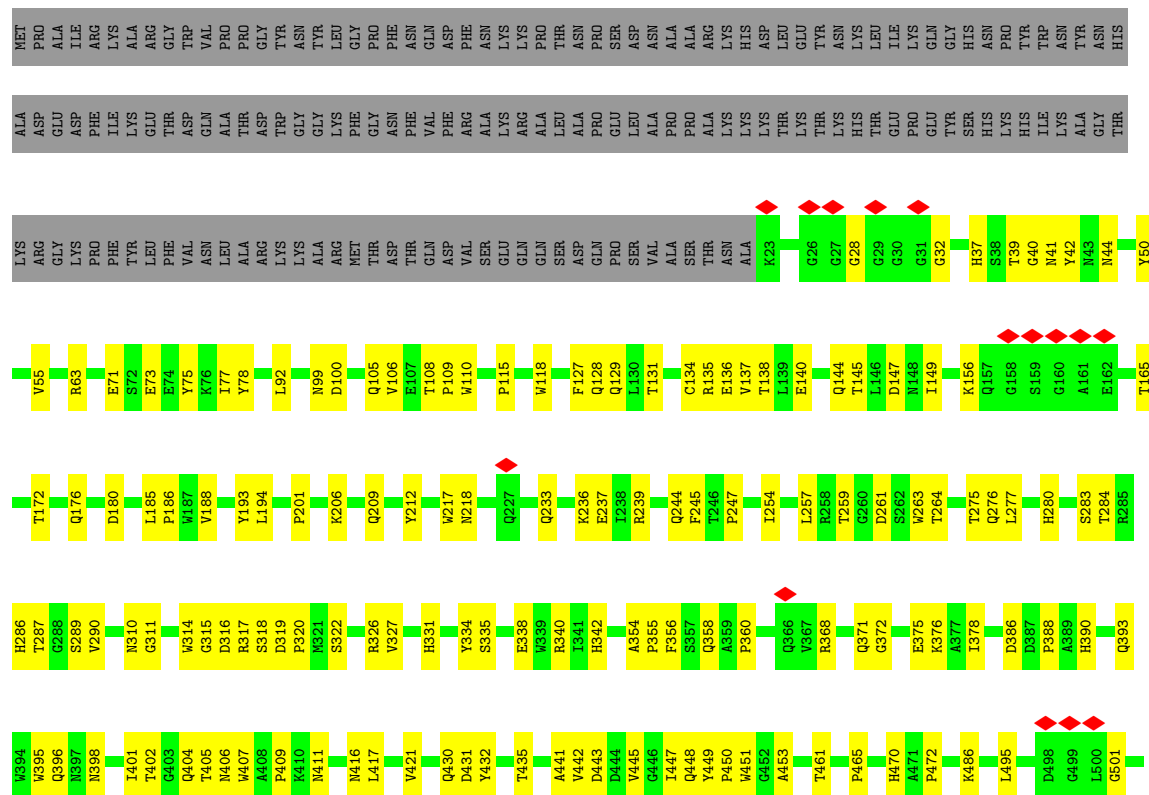






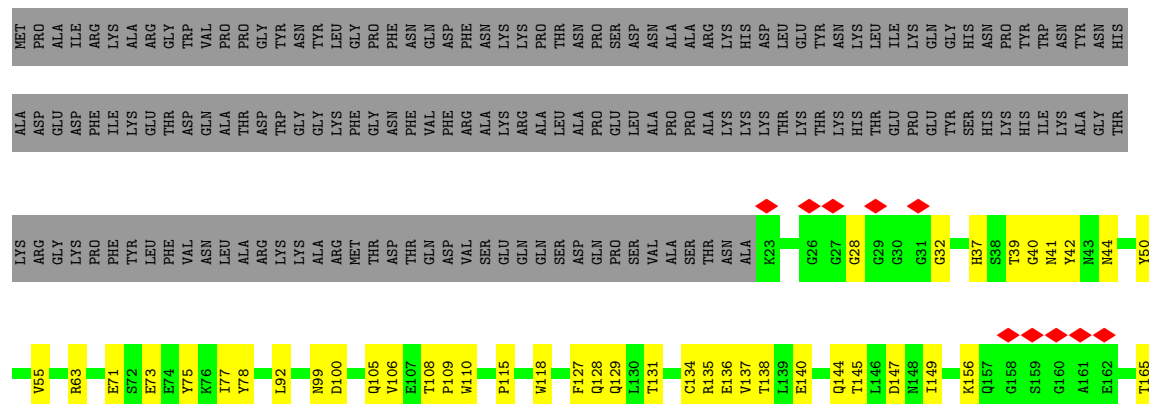
• Molecule 1: VP1

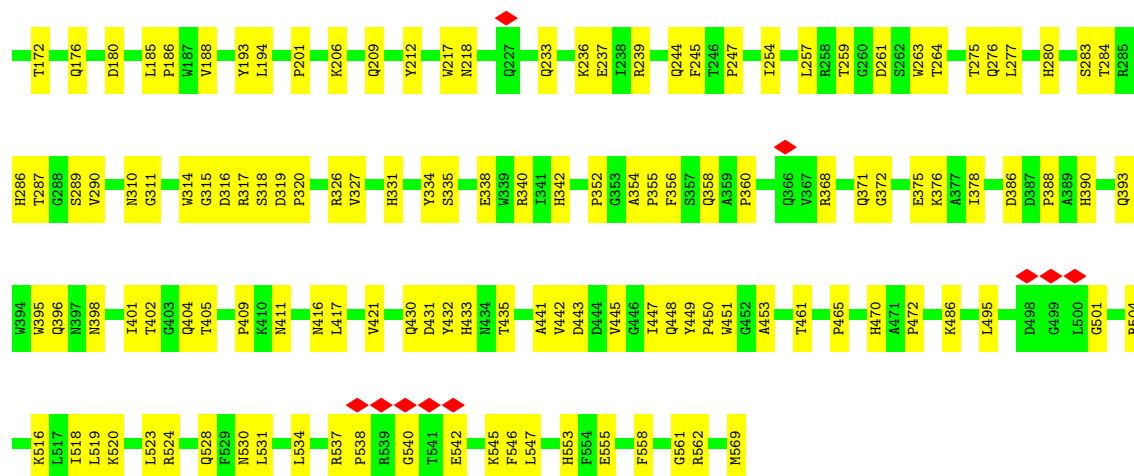
Chain 5: 53% 24% 23%



• Molecule 1: VP1

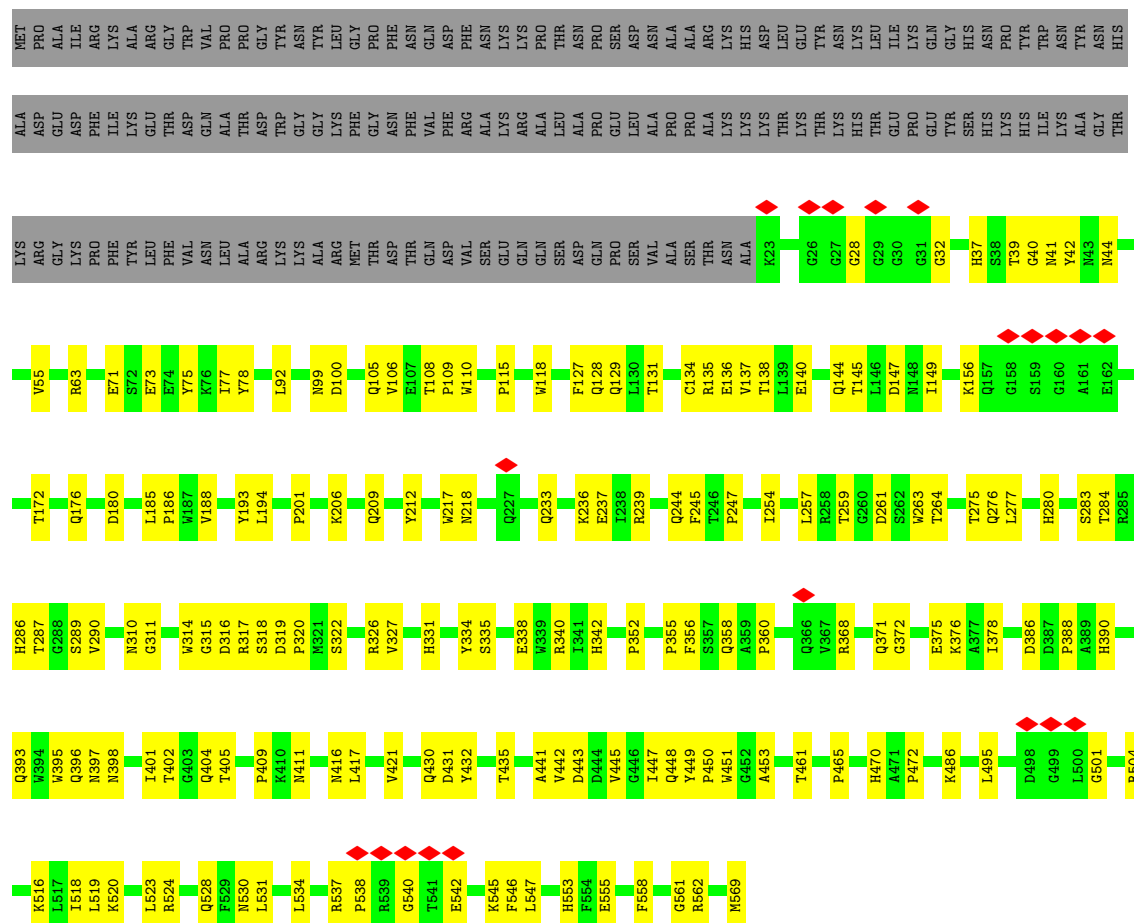
Chain 6: 53% 24% 23%





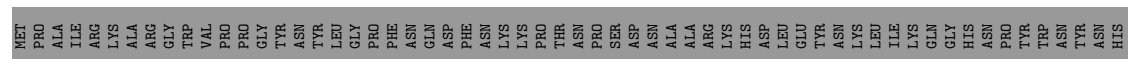
• Molecule 1: VP1

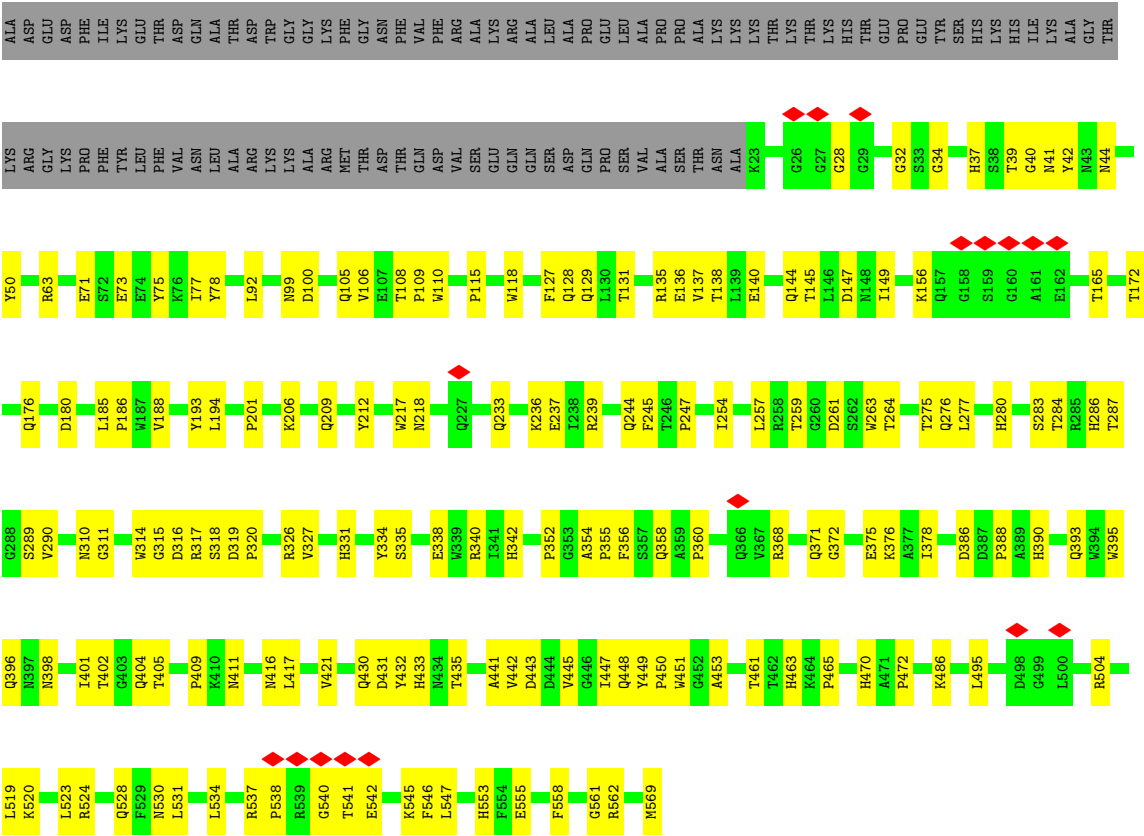
Chain 7: 53% 24% 23%



• Molecule 1: VP1

Chain 8: 54% 24% 23%





4 Experimental information

Property	Value	Source
EM reconstruction method	SINGLE PARTICLE	Depositor
Imposed symmetry	POINT, I	Depositor
Number of particles used	121222	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)	2900	Depositor
Magnification	130000	Depositor
Image detector	GATAN K2 SUMMIT (4k x 4k)	Depositor
Maximum map value	22.380	Depositor
Minimum map value	-15.107	Depositor
Average map value	0.000	Depositor
Map value standard deviation	1.000	Depositor
Recommended contour level	2	Depositor
Map size (Å)	496.32, 496.32, 496.32	wwPDB
Map dimensions	470, 470, 470	wwPDB
Map angles (°)	90.0, 90.0, 90.0	wwPDB
Pixel spacing (Å)	1.056, 1.056, 1.056	Depositor

5 Model quality

5.1 Standard geometry

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

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	$\# Z > 5$	RMSZ	$\# Z > 5$
1	1	0.44	0/4546	0.63	0/6214
1	2	0.44	0/4546	0.63	0/6214
1	3	0.44	0/4546	0.63	0/6214
1	4	0.44	0/4546	0.63	0/6214
1	5	0.44	0/4546	0.63	0/6214
1	6	0.44	0/4546	0.63	0/6214
1	7	0.44	0/4546	0.63	0/6214
1	8	0.44	0/4546	0.63	0/6214
1	A	0.44	0/4546	0.63	0/6214
1	B	0.44	0/4546	0.63	0/6214
1	C	0.44	0/4546	0.63	0/6214
1	D	0.44	0/4546	0.63	0/6214
1	E	0.44	0/4546	0.63	0/6214
1	F	0.44	0/4546	0.63	0/6214
1	G	0.44	0/4546	0.63	0/6214
1	H	0.44	0/4546	0.63	0/6214
1	I	0.44	0/4546	0.63	0/6214
1	J	0.44	0/4546	0.63	0/6214
1	K	0.44	0/4546	0.63	0/6214
1	L	0.44	0/4546	0.63	0/6214
1	M	0.44	0/4546	0.63	0/6214
1	N	0.44	0/4546	0.63	0/6214
1	O	0.44	0/4546	0.63	0/6214
1	P	0.44	0/4546	0.63	0/6214
1	Q	0.44	0/4546	0.63	0/6214
1	R	0.44	0/4546	0.63	0/6214
1	S	0.44	0/4546	0.63	0/6214
1	T	0.44	0/4546	0.63	0/6214
1	U	0.44	0/4546	0.63	0/6214
1	V	0.44	0/4546	0.63	0/6214
1	W	0.44	0/4546	0.63	0/6214
1	X	0.44	0/4546	0.63	0/6214
1	Y	0.44	0/4546	0.63	0/6214
1	Z	0.44	0/4546	0.63	0/6214

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	# Z >5	RMSZ	# Z >5
1	a	0.44	0/4546	0.63	0/6214
1	b	0.44	0/4546	0.63	0/6214
1	c	0.44	0/4546	0.63	0/6214
1	d	0.44	0/4546	0.63	0/6214
1	e	0.44	0/4546	0.63	0/6214
1	f	0.44	0/4546	0.63	0/6214
1	g	0.44	0/4546	0.63	0/6214
1	h	0.44	0/4546	0.63	0/6214
1	i	0.44	0/4546	0.63	0/6214
1	j	0.44	0/4546	0.63	0/6214
1	k	0.44	0/4546	0.63	0/6214
1	l	0.44	0/4546	0.63	0/6214
1	m	0.44	0/4546	0.63	0/6214
1	n	0.44	0/4546	0.63	0/6214
1	o	0.44	0/4546	0.63	0/6214
1	p	0.44	0/4546	0.63	0/6214
1	q	0.44	0/4546	0.63	0/6214
1	r	0.44	0/4546	0.63	0/6214
1	s	0.44	0/4546	0.63	0/6214
1	t	0.44	0/4546	0.63	0/6214
1	u	0.44	0/4546	0.63	0/6214
1	v	0.44	0/4546	0.63	0/6214
1	w	0.44	0/4546	0.63	0/6214
1	x	0.44	0/4546	0.63	0/6214
1	y	0.44	0/4546	0.63	0/6214
1	z	0.44	0/4546	0.63	0/6214
All	All	0.44	0/272760	0.63	0/372840

There are no bond length outliers.

There are no bond angle outliers.

There are no chirality outliers.

There are no planarity outliers.

5.2 Too-close contacts ⓘ

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

Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	1	4399	0	4121	162	0
1	2	4399	0	4121	163	0
1	3	4399	0	4121	161	0
1	4	4399	0	4121	160	0
1	5	4399	0	4121	159	0
1	6	4399	0	4121	160	0
1	7	4399	0	4121	160	0
1	8	4399	0	4121	158	0
1	A	4399	0	4121	162	0
1	B	4399	0	4121	159	0
1	C	4399	0	4121	156	0
1	D	4399	0	4121	160	0
1	E	4399	0	4121	163	0
1	F	4399	0	4121	161	0
1	G	4399	0	4121	164	0
1	H	4399	0	4121	162	0
1	I	4399	0	4121	157	0
1	J	4399	0	4121	159	0
1	K	4399	0	4121	161	0
1	L	4399	0	4121	154	0
1	M	4399	0	4121	161	0
1	N	4399	0	4121	157	0
1	O	4399	0	4121	159	0
1	P	4399	0	4121	156	0
1	Q	4399	0	4121	158	0
1	R	4399	0	4121	161	0
1	S	4399	0	4121	160	0
1	T	4399	0	4121	162	0
1	U	4399	0	4121	156	0
1	V	4399	0	4121	155	0
1	W	4399	0	4121	161	0
1	X	4399	0	4121	161	0
1	Y	4399	0	4121	161	0
1	Z	4399	0	4121	159	0
1	a	4399	0	4121	161	0
1	b	4399	0	4121	159	0
1	c	4399	0	4121	158	0
1	d	4399	0	4121	161	0
1	e	4399	0	4121	159	0
1	f	4399	0	4121	160	0
1	g	4399	0	4121	156	0
1	h	4399	0	4121	160	0
1	i	4399	0	4121	154	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	j	4399	0	4121	155	0
1	k	4399	0	4121	160	0
1	l	4399	0	4121	159	0
1	m	4399	0	4121	162	0
1	n	4399	0	4121	161	0
1	o	4399	0	4121	159	0
1	p	4399	0	4121	151	0
1	q	4399	0	4121	163	0
1	r	4399	0	4121	161	0
1	s	4399	0	4121	156	0
1	t	4399	0	4121	162	0
1	u	4399	0	4121	161	0
1	v	4399	0	4121	161	0
1	w	4399	0	4121	160	0
1	x	4399	0	4121	158	0
1	y	4399	0	4121	157	0
1	z	4399	0	4121	159	0
All	All	263940	0	247260	7573	0

The all-atom clashscore is defined as the number of clashes found per 1000 atoms (including hydrogen atoms). The all-atom clashscore for this structure is 15.

All (7573) close contacts within the same asymmetric unit are listed below, sorted by their clash magnitude.

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:g:128:GLN:OE1	1:z:531:LEU:CD1	1.73	1.36
1:v:531:LEU:CD1	1:y:128:GLN:OE1	1.74	1.36
1:A:531:LEU:CD1	1:F:128:GLN:OE1	1.74	1.35
1:J:128:GLN:OE1	1:K:531:LEU:CD1	1.74	1.35
1:G:128:GLN:OE1	1:H:531:LEU:CD1	1.74	1.35
1:W:128:GLN:OE1	1:X:531:LEU:CD1	1.74	1.35
1:t:128:GLN:OE1	1:5:531:LEU:CD1	1.74	1.35
1:2:128:GLN:OE1	1:4:531:LEU:CD1	1.74	1.35
1:C:128:GLN:OE1	1:L:531:LEU:CD1	1.74	1.35
1:a:128:GLN:OE1	1:3:531:LEU:CD1	1.74	1.35
1:b:128:GLN:OE1	1:c:531:LEU:CD1	1.74	1.35
1:e:531:LEU:CD1	1:f:128:GLN:OE1	1.74	1.35
1:h:531:LEU:CD1	1:k:128:GLN:OE1	1.74	1.35
1:o:128:GLN:OE1	1:6:531:LEU:CD1	1.75	1.35
1:p:128:GLN:OE1	1:s:531:LEU:CD1	1.74	1.35
1:D:128:GLN:OE1	1:M:531:LEU:CD1	1.74	1.35

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Q:531:LEU:CD1	1:R:128:GLN:OE1	1.74	1.35
1:U:531:LEU:CD1	1:V:128:GLN:OE1	1.74	1.35
1:W:531:LEU:CD1	1:X:128:GLN:OE1	1.75	1.35
1:i:128:GLN:OE1	1:l:531:LEU:CD1	1.74	1.35
1:o:531:LEU:CD1	1:6:128:GLN:OE1	1.74	1.35
1:q:128:GLN:OE1	1:x:531:LEU:CD1	1.74	1.35
1:N:128:GLN:OE1	1:O:531:LEU:CD1	1.75	1.34
1:a:531:LEU:CD1	1:3:128:GLN:OE1	1.74	1.34
1:S:531:LEU:CD1	1:T:128:GLN:OE1	1.75	1.34
1:m:128:GLN:OE1	1:r:531:LEU:CD1	1.75	1.34
1:b:531:LEU:CD1	1:c:128:GLN:OE1	1.74	1.34
1:d:531:LEU:CD1	1:n:128:GLN:OE1	1.74	1.34
1:g:531:LEU:CD1	1:z:128:GLN:OE1	1.73	1.34
1:v:128:GLN:OE1	1:y:531:LEU:CD1	1.74	1.34
1:A:128:GLN:OE1	1:F:531:LEU:CD1	1.74	1.34
1:G:531:LEU:CD1	1:H:128:GLN:OE1	1.75	1.34
1:B:531:LEU:CD1	1:I:128:GLN:OE1	1.74	1.33
1:E:531:LEU:CD1	1:P:128:GLN:OE1	1.75	1.33
1:J:531:LEU:CD1	1:K:128:GLN:OE1	1.75	1.33
1:d:128:GLN:OE1	1:n:531:LEU:CD1	1.74	1.33
1:e:128:GLN:OE1	1:f:531:LEU:CD1	1.74	1.33
1:t:531:LEU:CD1	1:5:128:GLN:OE1	1.75	1.33
1:u:128:GLN:OE1	1:l:531:LEU:CD1	1.74	1.33
1:j:128:GLN:OE1	1:w:531:LEU:CD1	1.75	1.33
1:2:531:LEU:CD1	1:4:128:GLN:OE1	1.75	1.33
1:i:531:LEU:CD1	1:l:128:GLN:OE1	1.75	1.33
1:E:128:GLN:OE1	1:P:531:LEU:CD1	1.75	1.33
1:N:531:LEU:CD1	1:O:128:GLN:OE1	1.75	1.33
1:Y:128:GLN:OE1	1:Z:531:LEU:CD1	1.75	1.33
1:j:531:LEU:CD1	1:w:128:GLN:OE1	1.74	1.33
1:m:531:LEU:CD1	1:r:128:GLN:OE1	1.74	1.33
1:u:531:LEU:CD1	1:l:128:GLN:OE1	1.74	1.33
1:7:128:GLN:OE1	1:8:531:LEU:CD1	1.74	1.33
1:B:128:GLN:OE1	1:I:531:LEU:CD1	1.74	1.32
1:C:531:LEU:CD1	1:L:128:GLN:OE1	1.75	1.32
1:D:531:LEU:CD1	1:M:128:GLN:OE1	1.75	1.32
1:S:128:GLN:OE1	1:T:531:LEU:CD1	1.74	1.32
1:Q:128:GLN:OE1	1:R:531:LEU:CD1	1.74	1.32
1:h:128:GLN:OE1	1:k:531:LEU:CD1	1.75	1.32
1:q:531:LEU:CD1	1:x:128:GLN:OE1	1.74	1.32
1:U:128:GLN:OE1	1:V:531:LEU:CD1	1.75	1.32

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:7:531:LEU:CD1	1:8:128:GLN:OE1	1.75	1.32
1:Y:531:LEU:CD1	1:Z:128:GLN:OE1	1.75	1.31
1:p:531:LEU:CD1	1:s:128:GLN:OE1	1.75	1.31
1:m:128:GLN:OE1	1:r:531:LEU:HD12	1.07	1.24
1:D:128:GLN:OE1	1:M:531:LEU:HD12	1.06	1.24
1:S:531:LEU:HD12	1:T:128:GLN:OE1	1.07	1.24
1:h:531:LEU:HD12	1:k:128:GLN:OE1	1.06	1.24
1:G:128:GLN:OE1	1:H:531:LEU:HD12	1.06	1.24
1:C:531:LEU:HD12	1:L:128:GLN:OE1	1.06	1.24
1:S:128:GLN:OE1	1:T:531:LEU:HD12	1.06	1.24
1:q:128:GLN:OE1	1:x:531:LEU:HD12	1.07	1.24
1:t:128:GLN:OE1	1:5:531:LEU:HD12	1.06	1.24
1:E:128:GLN:OE1	1:P:531:LEU:HD12	1.06	1.23
1:Q:531:LEU:HD12	1:R:128:GLN:OE1	1.07	1.23
1:Y:128:GLN:OE1	1:Z:531:LEU:HD12	1.06	1.23
1:j:531:LEU:HD12	1:w:128:GLN:OE1	1.06	1.23
1:m:531:LEU:HD12	1:r:128:GLN:OE1	1.06	1.23
1:7:128:GLN:OE1	1:8:531:LEU:HD12	1.06	1.23
1:U:531:LEU:HD12	1:V:128:GLN:OE1	1.06	1.23
1:E:531:LEU:HD12	1:P:128:GLN:OE1	1.06	1.23
1:U:128:GLN:OE1	1:V:531:LEU:HD12	1.06	1.23
1:j:128:GLN:OE1	1:w:531:LEU:HD12	1.06	1.23
1:J:128:GLN:OE1	1:K:531:LEU:HD12	1.06	1.23
1:p:128:GLN:OE1	1:s:531:LEU:HD12	1.06	1.23
1:p:531:LEU:HD12	1:s:128:GLN:OE1	1.06	1.23
1:2:128:GLN:OE1	1:4:531:LEU:HD12	1.06	1.23
1:e:128:GLN:OE1	1:f:531:LEU:HD12	1.06	1.22
1:Q:128:GLN:OE1	1:R:531:LEU:HD12	1.07	1.22
1:B:531:LEU:HD12	1:I:128:GLN:OE1	1.07	1.22
1:a:128:GLN:OE1	1:3:531:LEU:HD12	1.06	1.22
1:b:128:GLN:OE1	1:c:531:LEU:HD12	1.06	1.22
1:b:531:LEU:HD12	1:c:128:GLN:OE1	1.06	1.22
1:D:531:LEU:HD12	1:M:128:GLN:OE1	1.06	1.22
1:e:531:LEU:HD12	1:f:128:GLN:OE1	1.06	1.22
1:q:531:LEU:HD12	1:x:128:GLN:OE1	1.07	1.22
1:v:531:LEU:HD12	1:y:128:GLN:OE1	1.06	1.22
1:a:531:LEU:HD12	1:3:128:GLN:OE1	1.06	1.22
1:g:531:LEU:HD12	1:z:128:GLN:OE1	1.04	1.22
1:h:128:GLN:OE1	1:k:531:LEU:HD12	1.06	1.22
1:u:128:GLN:OE1	1:1:531:LEU:HD12	1.06	1.22
1:A:531:LEU:HD12	1:F:128:GLN:OE1	1.06	1.21

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:128:GLN:OE1	1:F:531:LEU:HD12	1.06	1.21
1:v:128:GLN:OE1	1:y:531:LEU:HD12	1.06	1.21
1:B:128:GLN:OE1	1:I:531:LEU:HD12	1.07	1.21
1:o:531:LEU:HD12	1:6:128:GLN:OE1	1.06	1.21
1:i:531:LEU:HD12	1:l:128:GLN:OE1	1.06	1.21
1:J:531:LEU:HD12	1:K:128:GLN:OE1	1.07	1.21
1:W:128:GLN:OE1	1:X:531:LEU:HD12	1.06	1.21
1:d:531:LEU:HD12	1:n:128:GLN:OE1	1.06	1.21
1:7:531:LEU:HD12	1:8:128:GLN:OE1	1.06	1.21
1:N:531:LEU:HD12	1:O:128:GLN:OE1	1.06	1.20
1:Y:531:LEU:HD12	1:Z:128:GLN:OE1	1.06	1.20
1:o:128:GLN:OE1	1:6:531:LEU:HD12	1.06	1.20
1:u:531:LEU:HD12	1:l:128:GLN:OE1	1.06	1.20
1:G:531:LEU:HD12	1:H:128:GLN:OE1	1.06	1.20
1:d:128:GLN:OE1	1:n:531:LEU:HD12	1.06	1.20
1:2:531:LEU:HD12	1:4:128:GLN:OE1	1.06	1.20
1:W:531:LEU:HD12	1:X:128:GLN:OE1	1.06	1.20
1:t:531:LEU:HD12	1:5:128:GLN:OE1	1.06	1.20
1:C:128:GLN:OE1	1:L:531:LEU:HD12	1.06	1.19
1:i:128:GLN:OE1	1:l:531:LEU:HD12	1.06	1.19
1:N:128:GLN:OE1	1:O:531:LEU:HD12	1.06	1.18
1:g:128:GLN:OE1	1:z:531:LEU:HD12	1.05	1.18
1:N:128:GLN:CD	1:O:531:LEU:HD11	1.71	1.16
1:W:531:LEU:HD11	1:X:128:GLN:CD	1.71	1.16
1:i:128:GLN:CD	1:l:531:LEU:HD11	1.70	1.16
1:o:128:GLN:CD	1:6:531:LEU:HD11	1.71	1.16
1:u:531:LEU:HD11	1:l:128:GLN:CD	1.71	1.16
1:B:128:GLN:CD	1:I:531:LEU:HD11	1.71	1.16
1:E:531:LEU:HD11	1:P:128:GLN:CD	1.71	1.16
1:W:128:GLN:CD	1:X:531:LEU:HD11	1.70	1.16
1:S:128:GLN:CD	1:T:531:LEU:HD11	1.71	1.16
1:m:531:LEU:HD11	1:r:128:GLN:CD	1.71	1.16
1:2:531:LEU:HD11	1:4:128:GLN:CD	1.71	1.16
1:J:531:LEU:HD11	1:K:128:GLN:CD	1.71	1.16
1:J:128:GLN:CD	1:K:531:LEU:HD11	1.71	1.16
1:b:128:GLN:CD	1:c:531:LEU:HD11	1.70	1.16
1:e:531:LEU:HD11	1:f:128:GLN:CD	1.70	1.16
1:g:128:GLN:CD	1:z:531:LEU:HD11	1.69	1.16
1:o:531:LEU:HD11	1:6:128:GLN:CD	1.71	1.16
1:q:531:LEU:HD11	1:x:128:GLN:CD	1.70	1.16
1:Q:128:GLN:CD	1:R:531:LEU:HD11	1.71	1.15

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:j:128:GLN:CD	1:w:531:LEU:HD11	1.71	1.15
1:t:128:GLN:CD	1:5:531:LEU:HD11	1.70	1.15
1:2:128:GLN:CD	1:4:531:LEU:HD11	1.71	1.15
1:D:128:GLN:CD	1:M:531:LEU:HD11	1.71	1.15
1:D:531:LEU:HD11	1:M:128:GLN:CD	1.71	1.15
1:G:128:GLN:CD	1:H:531:LEU:HD11	1.71	1.15
1:S:531:LEU:HD11	1:T:128:GLN:CD	1.71	1.15
1:g:531:LEU:HD11	1:z:128:GLN:CD	1.69	1.15
1:h:128:GLN:CD	1:k:531:LEU:HD11	1.71	1.15
1:h:531:LEU:HD11	1:k:128:GLN:CD	1.71	1.15
1:m:128:GLN:CD	1:r:531:LEU:HD11	1.71	1.15
1:B:531:LEU:HD11	1:I:128:GLN:CD	1.70	1.15
1:E:128:GLN:CD	1:P:531:LEU:HD11	1.71	1.15
1:t:531:LEU:HD11	1:5:128:GLN:CD	1.71	1.15
1:G:531:LEU:HD11	1:H:128:GLN:CD	1.71	1.15
1:a:531:LEU:HD11	1:3:128:GLN:CD	1.70	1.15
1:j:531:LEU:HD11	1:w:128:GLN:CD	1.70	1.15
1:p:128:GLN:CD	1:s:531:LEU:HD11	1.71	1.15
1:v:531:LEU:HD11	1:y:128:GLN:CD	1.70	1.15
1:A:531:LEU:HD11	1:F:128:GLN:CD	1.71	1.15
1:C:128:GLN:CD	1:L:531:LEU:HD11	1.71	1.15
1:U:128:GLN:CD	1:V:531:LEU:HD11	1.71	1.15
1:U:531:LEU:HD11	1:V:128:GLN:CD	1.70	1.15
1:p:531:LEU:HD11	1:s:128:GLN:CD	1.71	1.15
1:v:128:GLN:CD	1:y:531:LEU:HD11	1.70	1.15
1:A:128:GLN:CD	1:F:531:LEU:HD11	1.70	1.14
1:Y:128:GLN:CD	1:Z:531:LEU:HD11	1.71	1.14
1:Y:531:LEU:HD11	1:Z:128:GLN:CD	1.71	1.14
1:a:128:GLN:CD	1:3:531:LEU:HD11	1.70	1.14
1:7:128:GLN:CD	1:8:531:LEU:HD11	1.70	1.14
1:b:531:LEU:HD11	1:c:128:GLN:CD	1.70	1.14
1:u:128:GLN:CD	1:1:531:LEU:HD11	1.71	1.14
1:7:531:LEU:HD11	1:8:128:GLN:CD	1.71	1.14
1:Q:531:LEU:HD11	1:R:128:GLN:CD	1.71	1.14
1:d:128:GLN:CD	1:n:531:LEU:HD11	1.70	1.14
1:d:531:LEU:HD11	1:n:128:GLN:CD	1.70	1.14
1:e:128:GLN:CD	1:f:531:LEU:HD11	1.70	1.14
1:q:128:GLN:CD	1:x:531:LEU:HD11	1.71	1.14
1:C:531:LEU:HD11	1:L:128:GLN:CD	1.71	1.14
1:i:531:LEU:HD11	1:l:128:GLN:CD	1.71	1.13
1:N:531:LEU:HD11	1:O:128:GLN:CD	1.71	1.13

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:g:531:LEU:CD1	1:z:128:GLN:CD	2.23	1.11
1:U:531:LEU:CD1	1:V:128:GLN:CD	2.25	1.10
1:a:531:LEU:CD1	1:3:128:GLN:CD	2.25	1.10
1:p:128:GLN:CD	1:s:531:LEU:CD1	2.25	1.10
1:A:531:LEU:CD1	1:F:128:GLN:CD	2.25	1.09
1:a:128:GLN:CD	1:3:531:LEU:CD1	2.25	1.09
1:v:531:LEU:CD1	1:y:128:GLN:CD	2.25	1.09
1:D:128:GLN:CD	1:M:531:LEU:CD1	2.25	1.09
1:W:531:LEU:CD1	1:X:128:GLN:CD	2.25	1.09
1:h:531:LEU:CD1	1:k:128:GLN:CD	2.25	1.09
1:o:128:GLN:CD	1:6:531:LEU:CD1	2.25	1.09
1:E:531:LEU:CD1	1:P:128:GLN:CD	2.25	1.09
1:d:128:GLN:CD	1:n:531:LEU:CD1	2.25	1.09
1:d:531:LEU:CD1	1:n:128:GLN:CD	2.25	1.09
1:C:531:LEU:CD1	1:L:128:GLN:CD	2.26	1.09
1:j:128:GLN:CD	1:w:531:LEU:CD1	2.25	1.09
1:b:531:LEU:CD1	1:c:128:GLN:CD	2.26	1.08
1:Q:128:GLN:CD	1:R:531:LEU:CD1	2.26	1.08
1:S:531:LEU:CD1	1:T:128:GLN:CD	2.26	1.08
1:e:128:GLN:CD	1:f:531:LEU:CD1	2.26	1.08
1:m:128:GLN:CD	1:r:531:LEU:CD1	2.26	1.08
1:q:531:LEU:CD1	1:x:128:GLN:CD	2.26	1.08
1:U:128:GLN:CD	1:V:531:LEU:CD1	2.25	1.08
1:t:128:GLN:CD	1:5:531:LEU:CD1	2.25	1.08
1:v:128:GLN:CD	1:y:531:LEU:CD1	2.25	1.08
1:7:128:GLN:CD	1:8:531:LEU:CD1	2.25	1.08
1:G:128:GLN:CD	1:H:531:LEU:CD1	2.25	1.08
1:Y:128:GLN:CD	1:Z:531:LEU:CD1	2.25	1.08
1:p:531:LEU:CD1	1:s:128:GLN:CD	2.26	1.08
1:7:531:LEU:CD1	1:8:128:GLN:CD	2.25	1.08
1:Y:531:LEU:CD1	1:Z:128:GLN:CD	2.25	1.08
1:i:128:GLN:CD	1:l:531:LEU:CD1	2.25	1.08
1:J:531:LEU:CD1	1:K:128:GLN:CD	2.26	1.07
1:2:531:LEU:CD1	1:4:128:GLN:CD	2.26	1.07
1:N:128:GLN:CD	1:O:531:LEU:CD1	2.25	1.07
1:Q:531:LEU:CD1	1:R:128:GLN:CD	2.26	1.07
1:q:128:GLN:CD	1:x:531:LEU:CD1	2.26	1.07
1:W:128:GLN:CD	1:X:531:LEU:CD1	2.25	1.07
1:A:128:GLN:CD	1:F:531:LEU:CD1	2.25	1.07
1:o:531:LEU:CD1	1:6:128:GLN:CD	2.25	1.07
1:u:531:LEU:CD1	1:1:128:GLN:CD	2.26	1.07

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:128:GLN:CD	1:I:531:LEU:CD1	2.26	1.06
1:g:128:GLN:CD	1:z:531:LEU:CD1	2.24	1.06
1:u:128:GLN:CD	1:1:531:LEU:CD1	2.26	1.06
1:D:531:LEU:CD1	1:M:128:GLN:CD	2.25	1.06
1:S:128:GLN:CD	1:T:531:LEU:CD1	2.25	1.06
1:B:531:LEU:CD1	1:I:128:GLN:CD	2.26	1.06
1:h:128:GLN:CD	1:k:531:LEU:CD1	2.25	1.06
1:m:531:LEU:CD1	1:r:128:GLN:CD	2.25	1.06
1:2:128:GLN:CD	1:4:531:LEU:CD1	2.25	1.06
1:G:531:LEU:CD1	1:H:128:GLN:CD	2.25	1.05
1:J:128:GLN:CD	1:K:531:LEU:CD1	2.25	1.05
1:N:531:LEU:CD1	1:O:128:GLN:CD	2.25	1.05
1:e:531:LEU:CD1	1:f:128:GLN:CD	2.26	1.05
1:b:128:GLN:CD	1:c:531:LEU:CD1	2.26	1.05
1:i:531:LEU:CD1	1:l:128:GLN:CD	2.25	1.05
1:C:128:GLN:CD	1:L:531:LEU:CD1	2.25	1.05
1:t:531:LEU:CD1	1:5:128:GLN:CD	2.25	1.05
1:j:531:LEU:CD1	1:w:128:GLN:CD	2.25	1.05
1:E:128:GLN:CD	1:P:531:LEU:CD1	2.25	1.04
1:V:411:ASN:ND2	1:e:342:HIS:O	2.01	0.94
1:f:342:HIS:O	1:g:411:ASN:ND2	2.01	0.94
1:C:411:ASN:ND2	1:b:342:HIS:O	2.01	0.94
1:W:411:ASN:ND2	1:Y:342:HIS:O	2.01	0.94
1:c:342:HIS:O	1:p:411:ASN:ND2	2.01	0.94
1:6:411:ASN:ND2	1:7:342:HIS:O	2.01	0.94
1:K:411:ASN:ND2	1:a:342:HIS:O	2.01	0.94
1:T:411:ASN:ND2	1:d:342:HIS:O	2.01	0.94
1:m:411:ASN:ND2	1:n:342:HIS:O	2.01	0.94
1:3:342:HIS:O	1:4:411:ASN:ND2	2.01	0.94
1:d:411:ASN:ND2	1:l:342:HIS:O	2.01	0.94
1:i:411:ASN:ND2	1:j:342:HIS:O	2.01	0.94
1:E:411:ASN:ND2	1:Q:342:HIS:O	2.00	0.94
1:F:342:HIS:O	1:Q:411:ASN:ND2	2.01	0.94
1:H:411:ASN:ND2	1:W:342:HIS:O	2.01	0.94
1:J:411:ASN:ND2	1:L:342:HIS:O	2.01	0.94
1:N:411:ASN:ND2	1:P:342:HIS:O	2.01	0.94
1:O:342:HIS:O	1:n:411:ASN:ND2	2.01	0.94
1:R:342:HIS:O	1:U:411:ASN:ND2	2.01	0.94
1:R:411:ASN:ND2	1:S:342:HIS:O	2.01	0.94
1:q:342:HIS:O	1:s:411:ASN:ND2	2.01	0.94
1:q:411:ASN:ND2	1:r:342:HIS:O	2.01	0.94

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:x:411:ASN:ND2	1:y:342:HIS:O	2.01	0.94
1:5:411:ASN:ND2	1:6:342:HIS:O	2.01	0.94
1:V:342:HIS:O	1:X:411:ASN:ND2	2.01	0.94
1:B:342:HIS:O	1:L:411:ASN:ND2	2.01	0.94
1:a:411:ASN:ND2	1:8:342:HIS:O	2.01	0.94
1:o:411:ASN:ND2	1:p:342:HIS:O	2.01	0.94
1:t:411:ASN:ND2	1:u:342:HIS:O	2.01	0.94
1:C:342:HIS:O	1:M:411:ASN:ND2	2.01	0.93
1:E:342:HIS:O	1:F:411:ASN:ND2	2.01	0.93
1:G:411:ASN:ND2	1:I:342:HIS:O	2.01	0.93
1:M:342:HIS:O	1:b:411:ASN:ND2	2.01	0.93
1:f:411:ASN:ND2	1:h:342:HIS:O	2.01	0.93
1:g:342:HIS:O	1:h:411:ASN:ND2	2.01	0.93
1:Z:342:HIS:O	1:3:411:ASN:ND2	2.01	0.93
1:w:411:ASN:ND2	1:x:342:HIS:O	2.01	0.93
1:D:411:ASN:ND2	1:N:342:HIS:O	2.01	0.93
1:r:411:ASN:ND2	1:s:342:HIS:O	2.01	0.93
1:z:342:HIS:O	1:2:411:ASN:ND2	2.02	0.93
1:X:342:HIS:O	1:e:411:ASN:ND2	2.01	0.93
1:i:342:HIS:O	1:k:411:ASN:ND2	2.01	0.93
1:j:411:ASN:ND2	1:k:342:HIS:O	2.01	0.93
1:w:342:HIS:O	1:y:411:ASN:ND2	2.01	0.93
1:S:411:ASN:ND2	1:U:342:HIS:O	2.01	0.93
1:1:411:ASN:ND2	1:2:342:HIS:O	2.00	0.93
1:D:342:HIS:O	1:P:411:ASN:ND2	2.01	0.93
1:c:411:ASN:ND2	1:o:342:HIS:O	2.01	0.93
1:5:342:HIS:O	1:7:411:ASN:ND2	2.01	0.93
1:T:342:HIS:O	1:l:411:ASN:ND2	2.01	0.93
1:H:342:HIS:O	1:Y:411:ASN:ND2	2.01	0.93
1:O:411:ASN:ND2	1:m:342:HIS:O	2.01	0.93
1:z:411:ASN:ND2	1:1:342:HIS:O	2.02	0.93
1:K:342:HIS:O	1:8:411:ASN:ND2	2.01	0.92
1:t:342:HIS:O	1:v:411:ASN:ND2	2.01	0.92
1:A:411:ASN:ND2	1:G:342:HIS:O	2.01	0.92
1:Z:411:ASN:ND2	1:4:342:HIS:O	2.01	0.92
1:B:411:ASN:ND2	1:J:342:HIS:O	2.01	0.92
1:u:411:ASN:ND2	1:v:342:HIS:O	2.01	0.92
1:A:342:HIS:O	1:I:411:ASN:ND2	2.01	0.92
1:F:404:GLN:HE22	1:F:443:ASP:H	1.27	0.83
1:i:404:GLN:HE22	1:i:443:ASP:H	1.27	0.82
1:y:404:GLN:HE22	1:y:443:ASP:H	1.27	0.82

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:404:GLN:HE22	1:N:443:ASP:H	1.27	0.82
1:2:404:GLN:HE22	1:2:443:ASP:H	1.27	0.82
1:J:404:GLN:HE22	1:J:443:ASP:H	1.27	0.82
1:X:404:GLN:HE22	1:X:443:ASP:H	1.27	0.82
1:Z:404:GLN:HE22	1:Z:443:ASP:H	1.27	0.82
1:o:404:GLN:HE22	1:o:443:ASP:H	1.28	0.82
1:K:404:GLN:HE22	1:K:443:ASP:H	1.27	0.82
1:Y:404:GLN:HE22	1:Y:443:ASP:H	1.27	0.82
1:a:404:GLN:HE22	1:a:443:ASP:H	1.27	0.82
1:b:404:GLN:HE22	1:b:443:ASP:H	1.27	0.82
1:3:404:GLN:HE22	1:3:443:ASP:H	1.27	0.82
1:8:404:GLN:HE22	1:8:443:ASP:H	1.27	0.82
1:f:404:GLN:HE22	1:f:443:ASP:H	1.27	0.82
1:4:404:GLN:HE22	1:4:443:ASP:H	1.27	0.82
1:7:404:GLN:HE22	1:7:443:ASP:H	1.27	0.82
1:I:404:GLN:HE22	1:I:443:ASP:H	1.27	0.82
1:A:404:GLN:HE22	1:A:443:ASP:H	1.27	0.81
1:v:404:GLN:HE22	1:v:443:ASP:H	1.27	0.81
1:B:404:GLN:HE22	1:B:443:ASP:H	1.27	0.81
1:C:404:GLN:HE22	1:C:443:ASP:H	1.27	0.81
1:S:404:GLN:HE22	1:S:443:ASP:H	1.27	0.81
1:r:404:GLN:HE22	1:r:443:ASP:H	1.27	0.81
1:u:404:GLN:HE22	1:u:443:ASP:H	1.27	0.81
1:1:404:GLN:HE22	1:1:443:ASP:H	1.28	0.81
1:R:404:GLN:HE22	1:R:443:ASP:H	1.27	0.81
1:g:404:GLN:HE22	1:g:443:ASP:H	1.27	0.81
1:q:404:GLN:HE22	1:q:443:ASP:H	1.27	0.81
1:h:404:GLN:HE22	1:h:443:ASP:H	1.28	0.81
1:M:404:GLN:HE22	1:M:443:ASP:H	1.28	0.81
1:t:404:GLN:HE22	1:t:443:ASP:H	1.27	0.81
1:W:404:GLN:HE22	1:W:443:ASP:H	1.27	0.81
1:z:404:GLN:HE22	1:z:443:ASP:H	1.27	0.81
1:G:404:GLN:HE22	1:G:443:ASP:H	1.28	0.80
1:L:404:GLN:HE22	1:L:443:ASP:H	1.27	0.80
1:6:404:GLN:HE22	1:6:443:ASP:H	1.27	0.80
1:V:404:GLN:HE22	1:V:443:ASP:H	1.27	0.80
1:Z:404:GLN:HE22	1:Z:443:ASP:N	1.80	0.80
1:8:404:GLN:HE22	1:8:443:ASP:N	1.80	0.80
1:B:404:GLN:HE22	1:B:443:ASP:N	1.80	0.80
1:S:404:GLN:HE22	1:S:443:ASP:N	1.80	0.80
1:m:404:GLN:HE22	1:m:443:ASP:H	1.27	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:r:404:GLN:HE22	1:r:443:ASP:N	1.80	0.80
1:l:404:GLN:HE22	1:l:443:ASP:N	1.80	0.80
1:D:404:GLN:HE22	1:D:443:ASP:H	1.27	0.80
1:d:404:GLN:HE22	1:d:443:ASP:N	1.80	0.80
1:n:404:GLN:HE22	1:n:443:ASP:N	1.80	0.80
1:y:404:GLN:HE22	1:y:443:ASP:N	1.80	0.80
1:E:404:GLN:HE22	1:E:443:ASP:H	1.27	0.80
1:F:404:GLN:HE22	1:F:443:ASP:N	1.80	0.80
1:T:404:GLN:HE22	1:T:443:ASP:H	1.27	0.80
1:p:404:GLN:HE22	1:p:443:ASP:H	1.27	0.80
1:w:404:GLN:HE22	1:w:443:ASP:H	1.27	0.80
1:3:404:GLN:HE22	1:3:443:ASP:N	1.80	0.80
1:U:404:GLN:HE22	1:U:443:ASP:H	1.27	0.79
1:a:404:GLN:HE22	1:a:443:ASP:N	1.80	0.79
1:c:404:GLN:HE22	1:c:443:ASP:H	1.27	0.79
1:s:404:GLN:HE22	1:s:443:ASP:H	1.27	0.79
1:W:404:GLN:HE22	1:W:443:ASP:N	1.80	0.79
1:k:404:GLN:HE22	1:k:443:ASP:H	1.27	0.79
1:J:131:THR:O	1:J:524:ARG:NH1	2.16	0.79
1:e:404:GLN:HE22	1:e:443:ASP:H	1.27	0.79
1:j:404:GLN:HE22	1:j:443:ASP:H	1.27	0.79
1:v:404:GLN:HE22	1:v:443:ASP:N	1.80	0.79
1:2:131:THR:O	1:2:524:ARG:NH1	2.16	0.79
1:5:404:GLN:HE22	1:5:443:ASP:N	1.80	0.79
1:6:404:GLN:HE22	1:6:443:ASP:N	1.80	0.79
1:A:404:GLN:HE22	1:A:443:ASP:N	1.80	0.79
1:C:131:THR:O	1:C:524:ARG:NH1	2.16	0.79
1:H:404:GLN:HE22	1:H:443:ASP:N	1.80	0.79
1:V:131:THR:O	1:V:524:ARG:NH1	2.16	0.79
1:b:131:THR:O	1:b:524:ARG:NH1	2.16	0.79
1:f:131:THR:O	1:f:524:ARG:NH1	2.16	0.79
1:g:131:THR:O	1:g:524:ARG:NH1	2.16	0.79
1:i:131:THR:O	1:i:524:ARG:NH1	2.16	0.79
1:7:404:GLN:HE22	1:7:443:ASP:N	1.80	0.79
1:A:131:THR:O	1:A:524:ARG:NH1	2.16	0.79
1:H:404:GLN:HE22	1:H:443:ASP:H	1.27	0.79
1:N:131:THR:O	1:N:524:ARG:NH1	2.16	0.79
1:X:404:GLN:HE22	1:X:443:ASP:N	1.80	0.79
1:d:131:THR:O	1:d:524:ARG:NH1	2.16	0.79
1:n:131:THR:O	1:n:524:ARG:NH1	2.16	0.79
1:p:131:THR:O	1:p:524:ARG:NH1	2.16	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:v:131:THR:O	1:v:524:ARG:NH1	2.16	0.79
1:4:275:THR:HG21	1:4:472:PRO:HB2	1.65	0.79
1:A:275:THR:HG21	1:A:472:PRO:HB2	1.65	0.79
1:K:275:THR:HG21	1:K:472:PRO:HB2	1.65	0.79
1:P:404:GLN:HE22	1:P:443:ASP:H	1.27	0.79
1:Q:131:THR:O	1:Q:524:ARG:NH1	2.16	0.79
1:R:404:GLN:HE22	1:R:443:ASP:N	1.80	0.79
1:U:131:THR:O	1:U:524:ARG:NH1	2.16	0.79
1:a:275:THR:HG21	1:a:472:PRO:HB2	1.65	0.79
1:s:131:THR:O	1:s:524:ARG:NH1	2.16	0.79
1:v:275:THR:HG21	1:v:472:PRO:HB2	1.65	0.79
1:x:131:THR:O	1:x:524:ARG:NH1	2.16	0.79
1:3:275:THR:HG21	1:3:472:PRO:HB2	1.65	0.79
1:Q:404:GLN:HE22	1:Q:443:ASP:N	1.80	0.79
1:Y:404:GLN:HE22	1:Y:443:ASP:N	1.80	0.79
1:Z:275:THR:HG21	1:Z:472:PRO:HB2	1.65	0.79
1:d:404:GLN:HE22	1:d:443:ASP:H	1.27	0.79
1:l:404:GLN:HE22	1:l:443:ASP:H	1.27	0.79
1:m:131:THR:O	1:m:524:ARG:NH1	2.16	0.79
1:o:404:GLN:HE22	1:o:443:ASP:N	1.80	0.79
1:q:404:GLN:HE22	1:q:443:ASP:N	1.80	0.79
1:s:404:GLN:HE22	1:s:443:ASP:N	1.80	0.79
1:w:131:THR:O	1:w:524:ARG:NH1	2.16	0.79
1:8:275:THR:HG21	1:8:472:PRO:HB2	1.65	0.79
1:E:131:THR:O	1:E:524:ARG:NH1	2.16	0.79
1:F:131:THR:O	1:F:524:ARG:NH1	2.16	0.79
1:M:131:THR:O	1:M:524:ARG:NH1	2.16	0.79
1:O:404:GLN:HE22	1:O:443:ASP:H	1.27	0.79
1:O:404:GLN:HE22	1:O:443:ASP:N	1.80	0.79
1:l:404:GLN:HE22	1:l:443:ASP:N	1.80	0.79
1:5:404:GLN:HE22	1:5:443:ASP:H	1.27	0.79
1:7:275:THR:HG21	1:7:472:PRO:HB2	1.65	0.79
1:T:131:THR:O	1:T:524:ARG:NH1	2.16	0.79
1:U:404:GLN:HE22	1:U:443:ASP:N	1.80	0.79
1:Y:275:THR:HG21	1:Y:472:PRO:HB2	1.65	0.79
1:d:275:THR:HG21	1:d:472:PRO:HB2	1.65	0.79
1:e:275:THR:HG21	1:e:472:PRO:HB2	1.65	0.79
1:g:404:GLN:HE22	1:g:443:ASP:N	1.80	0.79
1:h:131:THR:O	1:h:524:ARG:NH1	2.16	0.79
1:n:275:THR:HG21	1:n:472:PRO:HB2	1.65	0.79
1:q:131:THR:O	1:q:524:ARG:NH1	2.16	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:x:404:GLN:HE22	1:x:443:ASP:N	1.80	0.79
1:y:131:THR:O	1:y:524:ARG:NH1	2.16	0.79
1:C:404:GLN:HE22	1:C:443:ASP:N	1.80	0.79
1:E:404:GLN:HE22	1:E:443:ASP:N	1.80	0.79
1:H:275:THR:HG21	1:H:472:PRO:HB2	1.65	0.79
1:I:131:THR:O	1:I:524:ARG:NH1	2.16	0.79
1:R:131:THR:O	1:R:524:ARG:NH1	2.16	0.79
1:n:404:GLN:HE22	1:n:443:ASP:H	1.27	0.79
1:u:131:THR:O	1:u:524:ARG:NH1	2.16	0.79
1:w:404:GLN:HE22	1:w:443:ASP:N	1.80	0.79
1:4:131:THR:O	1:4:524:ARG:NH1	2.16	0.79
1:5:275:THR:HG21	1:5:472:PRO:HB2	1.65	0.79
1:J:404:GLN:HE22	1:J:443:ASP:N	1.80	0.78
1:K:131:THR:O	1:K:524:ARG:NH1	2.16	0.78
1:c:131:THR:O	1:c:524:ARG:NH1	2.16	0.78
1:c:275:THR:HG21	1:c:472:PRO:HB2	1.65	0.78
1:f:404:GLN:HE22	1:f:443:ASP:N	1.80	0.78
1:j:404:GLN:HE22	1:j:443:ASP:N	1.80	0.78
1:1:131:THR:O	1:1:524:ARG:NH1	2.16	0.78
1:6:131:THR:O	1:6:524:ARG:NH1	2.16	0.78
1:8:131:THR:O	1:8:524:ARG:NH1	2.16	0.78
1:B:275:THR:HG21	1:B:472:PRO:HB2	1.65	0.78
1:Z:131:THR:O	1:Z:524:ARG:NH1	2.16	0.78
1:m:404:GLN:HE22	1:m:443:ASP:N	1.80	0.78
1:x:404:GLN:HE22	1:x:443:ASP:H	1.27	0.78
1:z:131:THR:O	1:z:524:ARG:NH1	2.16	0.78
1:7:131:THR:O	1:7:524:ARG:NH1	2.16	0.78
1:B:131:THR:O	1:B:524:ARG:NH1	2.16	0.78
1:L:131:THR:O	1:L:524:ARG:NH1	2.16	0.78
1:L:404:GLN:HE22	1:L:443:ASP:N	1.80	0.78
1:P:404:GLN:HE22	1:P:443:ASP:N	1.80	0.78
1:Q:404:GLN:HE22	1:Q:443:ASP:H	1.27	0.78
1:T:275:THR:HG21	1:T:472:PRO:HB2	1.65	0.78
1:T:404:GLN:HE22	1:T:443:ASP:N	1.80	0.78
1:V:404:GLN:HE22	1:V:443:ASP:N	1.80	0.78
1:W:131:THR:O	1:W:524:ARG:NH1	2.16	0.78
1:Y:131:THR:O	1:Y:524:ARG:NH1	2.16	0.78
1:a:131:THR:O	1:a:524:ARG:NH1	2.16	0.78
1:e:131:THR:O	1:e:524:ARG:NH1	2.16	0.78
1:m:275:THR:HG21	1:m:472:PRO:HB2	1.65	0.78
1:p:404:GLN:HE22	1:p:443:ASP:N	1.80	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:3:131:THR:O	1:3:524:ARG:NH1	2.16	0.78
1:M:404:GLN:HE22	1:M:443:ASP:N	1.80	0.78
1:O:275:THR:HG21	1:O:472:PRO:HB2	1.65	0.78
1:P:131:THR:O	1:P:524:ARG:NH1	2.16	0.78
1:S:275:THR:HG21	1:S:472:PRO:HB2	1.65	0.78
1:V:275:THR:HG21	1:V:472:PRO:HB2	1.65	0.78
1:b:404:GLN:HE22	1:b:443:ASP:N	1.80	0.78
1:k:131:THR:O	1:k:524:ARG:NH1	2.16	0.78
1:l:275:THR:HG21	1:l:472:PRO:HB2	1.65	0.78
1:p:275:THR:HG21	1:p:472:PRO:HB2	1.65	0.78
1:u:404:GLN:HE22	1:u:443:ASP:N	1.80	0.78
1:1:275:THR:HG21	1:1:472:PRO:HB2	1.65	0.78
1:2:404:GLN:HE22	1:2:443:ASP:N	1.80	0.78
1:D:131:THR:O	1:D:524:ARG:NH1	2.16	0.78
1:I:404:GLN:HE22	1:I:443:ASP:N	1.80	0.78
1:h:404:GLN:HE22	1:h:443:ASP:N	1.80	0.78
1:i:404:GLN:HE22	1:i:443:ASP:N	1.80	0.78
1:r:275:THR:HG21	1:r:472:PRO:HB2	1.65	0.78
1:s:275:THR:HG21	1:s:472:PRO:HB2	1.65	0.78
1:t:131:THR:O	1:t:524:ARG:NH1	2.16	0.78
1:G:131:THR:O	1:G:524:ARG:NH1	2.16	0.78
1:J:275:THR:HG21	1:J:472:PRO:HB2	1.65	0.78
1:O:131:THR:O	1:O:524:ARG:NH1	2.16	0.78
1:S:131:THR:O	1:S:524:ARG:NH1	2.16	0.78
1:c:404:GLN:HE22	1:c:443:ASP:N	1.80	0.78
1:e:404:GLN:HE22	1:e:443:ASP:N	1.80	0.78
1:j:131:THR:O	1:j:524:ARG:NH1	2.16	0.78
1:j:275:THR:HG21	1:j:472:PRO:HB2	1.65	0.78
1:r:131:THR:O	1:r:524:ARG:NH1	2.16	0.78
1:z:404:GLN:HE22	1:z:443:ASP:N	1.80	0.78
1:5:131:THR:O	1:5:524:ARG:NH1	2.16	0.78
1:H:131:THR:O	1:H:524:ARG:NH1	2.16	0.78
1:P:275:THR:HG21	1:P:472:PRO:HB2	1.65	0.78
1:U:275:THR:HG21	1:U:472:PRO:HB2	1.65	0.78
1:X:131:THR:O	1:X:524:ARG:NH1	2.16	0.78
1:l:131:THR:O	1:l:524:ARG:NH1	2.16	0.78
1:f:275:THR:HG21	1:f:472:PRO:HB2	1.65	0.78
1:k:404:GLN:HE22	1:k:443:ASP:N	1.80	0.78
1:t:275:THR:HG21	1:t:472:PRO:HB2	1.65	0.78
1:D:404:GLN:HE22	1:D:443:ASP:N	1.80	0.78
1:G:275:THR:HG21	1:G:472:PRO:HB2	1.65	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:404:GLN:HE22	1:N:443:ASP:N	1.80	0.78
1:b:275:THR:HG21	1:b:472:PRO:HB2	1.65	0.78
1:g:275:THR:HG21	1:g:472:PRO:HB2	1.65	0.78
1:2:275:THR:HG21	1:2:472:PRO:HB2	1.65	0.78
1:h:275:THR:HG21	1:h:472:PRO:HB2	1.65	0.78
1:o:131:THR:O	1:o:524:ARG:NH1	2.16	0.78
1:E:275:THR:HG21	1:E:472:PRO:HB2	1.65	0.77
1:M:275:THR:HG21	1:M:472:PRO:HB2	1.65	0.77
1:t:404:GLN:HE22	1:t:443:ASP:N	1.80	0.77
1:C:275:THR:HG21	1:C:472:PRO:HB2	1.65	0.77
1:X:275:THR:HG21	1:X:472:PRO:HB2	1.65	0.77
1:i:275:THR:HG21	1:i:472:PRO:HB2	1.65	0.77
1:k:275:THR:HG21	1:k:472:PRO:HB2	1.65	0.77
1:o:275:THR:HG21	1:o:472:PRO:HB2	1.65	0.77
1:K:404:GLN:HE22	1:K:443:ASP:N	1.80	0.77
1:R:275:THR:HG21	1:R:472:PRO:HB2	1.65	0.77
1:w:275:THR:HG21	1:w:472:PRO:HB2	1.65	0.77
1:D:275:THR:HG21	1:D:472:PRO:HB2	1.65	0.77
1:G:404:GLN:HE22	1:G:443:ASP:N	1.80	0.77
1:N:275:THR:HG21	1:N:472:PRO:HB2	1.65	0.77
1:u:275:THR:HG21	1:u:472:PRO:HB2	1.65	0.77
1:q:275:THR:HG21	1:q:472:PRO:HB2	1.65	0.77
1:4:404:GLN:HE22	1:4:443:ASP:N	1.80	0.77
1:6:275:THR:HG21	1:6:472:PRO:HB2	1.65	0.77
1:I:275:THR:HG21	1:I:472:PRO:HB2	1.65	0.77
1:W:275:THR:HG21	1:W:472:PRO:HB2	1.65	0.77
1:F:275:THR:HG21	1:F:472:PRO:HB2	1.65	0.77
1:Q:275:THR:HG21	1:Q:472:PRO:HB2	1.65	0.76
1:y:275:THR:HG21	1:y:472:PRO:HB2	1.65	0.76
1:x:275:THR:HG21	1:x:472:PRO:HB2	1.65	0.76
1:L:275:THR:HG21	1:L:472:PRO:HB2	1.65	0.76
1:z:275:THR:HG21	1:z:472:PRO:HB2	1.65	0.76
1:K:317:ARG:NH2	1:a:99:ASN:OD1	2.20	0.75
1:Z:317:ARG:NH2	1:4:99:ASN:OD1	2.20	0.75
1:K:99:ASN:OD1	1:8:317:ARG:NH2	2.20	0.75
1:3:99:ASN:OD1	1:4:317:ARG:NH2	2.20	0.75
1:R:318:SER:OG	1:S:393:GLN:NE2	2.20	0.74
1:A:317:ARG:NH2	1:G:99:ASN:OD1	2.21	0.74
1:q:318:SER:OG	1:r:393:GLN:NE2	2.20	0.74
1:z:393:GLN:NE2	1:2:318:SER:OG	2.20	0.74
1:B:318:SER:OG	1:J:393:GLN:NE2	2.20	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:118:TRP:HB2	1:I:449:TYR:O	1.88	0.74
1:t:99:ASN:OD1	1:v:317:ARG:NH2	2.21	0.74
1:u:118:TRP:HB2	1:u:449:TYR:O	1.88	0.74
1:L:118:TRP:HB2	1:L:449:TYR:O	1.88	0.74
1:T:118:TRP:HB2	1:T:449:TYR:O	1.88	0.74
1:g:99:ASN:OD1	1:h:317:ARG:NH2	2.20	0.74
1:m:118:TRP:HB2	1:m:449:TYR:O	1.88	0.74
1:s:118:TRP:HB2	1:s:449:TYR:O	1.88	0.74
1:l:318:SER:OG	1:2:393:GLN:NE2	2.20	0.74
1:C:99:ASN:OD1	1:M:317:ARG:NH2	2.20	0.74
1:D:99:ASN:OD1	1:P:317:ARG:NH2	2.21	0.74
1:M:118:TRP:HB2	1:M:449:TYR:O	1.88	0.74
1:O:317:ARG:NH2	1:m:99:ASN:OD1	2.20	0.74
1:U:118:TRP:HB2	1:U:449:TYR:O	1.88	0.74
1:j:317:ARG:NH2	1:k:99:ASN:OD1	2.21	0.74
1:z:118:TRP:HB2	1:z:449:TYR:O	1.88	0.74
1:R:118:TRP:HB2	1:R:449:TYR:O	1.88	0.74
1:c:318:SER:OG	1:o:393:GLN:NE2	2.21	0.74
1:h:118:TRP:HB2	1:h:449:TYR:O	1.88	0.74
1:q:118:TRP:HB2	1:q:449:TYR:O	1.88	0.74
1:C:318:SER:OG	1:b:393:GLN:NE2	2.21	0.74
1:N:317:ARG:NH2	1:P:99:ASN:OD1	2.21	0.74
1:f:393:GLN:NE2	1:g:318:SER:OG	2.21	0.74
1:i:317:ARG:NH2	1:j:99:ASN:OD1	2.21	0.74
1:o:118:TRP:HB2	1:o:449:TYR:O	1.88	0.74
1:D:317:ARG:NH2	1:N:99:ASN:OD1	2.21	0.74
1:T:317:ARG:NH2	1:d:99:ASN:OD1	2.20	0.74
1:W:118:TRP:HB2	1:W:449:TYR:O	1.88	0.74
1:X:118:TRP:HB2	1:X:449:TYR:O	1.88	0.74
1:X:393:GLN:NE2	1:e:318:SER:OG	2.21	0.74
1:c:118:TRP:HB2	1:c:449:TYR:O	1.88	0.74
1:6:118:TRP:HB2	1:6:449:TYR:O	1.88	0.74
1:7:118:TRP:HB2	1:7:449:TYR:O	1.88	0.74
1:H:318:SER:OG	1:W:393:GLN:NE2	2.21	0.74
1:Y:118:TRP:HB2	1:Y:449:TYR:O	1.88	0.74
1:e:118:TRP:HB2	1:e:449:TYR:O	1.88	0.74
1:i:99:ASN:OD1	1:k:317:ARG:NH2	2.21	0.74
1:m:317:ARG:NH2	1:n:99:ASN:OD1	2.20	0.74
1:w:317:ARG:NH2	1:x:99:ASN:OD1	2.21	0.74
1:z:318:SER:OG	1:l:393:GLN:NE2	2.21	0.74
1:5:318:SER:OG	1:6:393:GLN:NE2	2.21	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:118:TRP:HB2	1:C:449:TYR:O	1.88	0.74
1:E:99:ASN:OD1	1:F:317:ARG:NH2	2.21	0.74
1:E:318:SER:OG	1:Q:393:GLN:NE2	2.21	0.74
1:H:118:TRP:HB2	1:H:449:TYR:O	1.88	0.74
1:V:317:ARG:NH2	1:e:99:ASN:OD1	2.21	0.74
1:c:99:ASN:OD1	1:p:317:ARG:NH2	2.21	0.74
1:w:318:SER:OG	1:x:393:GLN:NE2	2.21	0.74
1:5:118:TRP:HB2	1:5:449:TYR:O	1.88	0.74
1:A:393:GLN:NE2	1:I:318:SER:OG	2.21	0.73
1:B:393:GLN:NE2	1:L:318:SER:OG	2.21	0.73
1:C:393:GLN:NE2	1:M:318:SER:OG	2.21	0.73
1:E:393:GLN:NE2	1:F:318:SER:OG	2.21	0.73
1:Q:118:TRP:HB2	1:Q:449:TYR:O	1.88	0.73
1:V:318:SER:OG	1:e:393:GLN:NE2	2.21	0.73
1:m:318:SER:OG	1:n:393:GLN:NE2	2.21	0.73
1:u:318:SER:OG	1:v:393:GLN:NE2	2.21	0.73
1:w:393:GLN:NE2	1:y:318:SER:OG	2.21	0.73
1:H:317:ARG:NH2	1:W:99:ASN:OD1	2.21	0.73
1:R:393:GLN:NE2	1:U:318:SER:OG	2.21	0.73
1:T:318:SER:OG	1:d:393:GLN:NE2	2.21	0.73
1:g:118:TRP:HB2	1:g:449:TYR:O	1.88	0.73
1:g:393:GLN:NE2	1:h:318:SER:OG	2.21	0.73
1:q:393:GLN:NE2	1:s:318:SER:OG	2.21	0.73
1:B:99:ASN:OD1	1:L:317:ARG:NH2	2.21	0.73
1:B:118:TRP:HB2	1:B:449:TYR:O	1.88	0.73
1:E:317:ARG:NH2	1:Q:99:ASN:OD1	2.21	0.73
1:F:393:GLN:NE2	1:Q:318:SER:OG	2.21	0.73
1:O:118:TRP:HB2	1:O:449:TYR:O	1.88	0.73
1:S:145:THR:HG22	1:S:264:THR:HG22	1.71	0.73
1:V:99:ASN:OD1	1:X:317:ARG:NH2	2.20	0.73
1:c:393:GLN:NE2	1:p:318:SER:OG	2.21	0.73
1:d:145:THR:HG22	1:d:264:THR:HG22	1.71	0.73
1:l:118:TRP:HB2	1:l:449:TYR:O	1.88	0.73
1:r:145:THR:HG22	1:r:264:THR:HG22	1.71	0.73
1:w:99:ASN:OD1	1:y:317:ARG:NH2	2.21	0.73
1:x:118:TRP:HB2	1:x:449:TYR:O	1.88	0.73
1:3:145:THR:HG22	1:3:264:THR:HG22	1.71	0.73
1:D:318:SER:OG	1:N:393:GLN:NE2	2.21	0.73
1:G:118:TRP:HB2	1:G:449:TYR:O	1.88	0.73
1:G:317:ARG:NH2	1:I:99:ASN:OD1	2.21	0.73
1:J:317:ARG:NH2	1:L:99:ASN:OD1	2.21	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:318:SER:OG	1:L:393:GLN:NE2	2.21	0.73
1:S:317:ARG:NH2	1:U:99:ASN:OD1	2.21	0.73
1:a:145:THR:HG22	1:a:264:THR:HG22	1.71	0.73
1:b:118:TRP:HB2	1:b:449:TYR:O	1.88	0.73
1:i:145:THR:HG22	1:i:264:THR:HG22	1.71	0.73
1:i:393:GLN:NE2	1:k:318:SER:OG	2.21	0.73
1:n:145:THR:HG22	1:n:264:THR:HG22	1.71	0.73
1:o:145:THR:HG22	1:o:264:THR:HG22	1.71	0.73
1:t:317:ARG:NH2	1:u:99:ASN:OD1	2.21	0.73
1:5:317:ARG:NH2	1:6:99:ASN:OD1	2.21	0.73
1:I:145:THR:HG22	1:I:264:THR:HG22	1.71	0.73
1:M:393:GLN:NE2	1:b:318:SER:OG	2.21	0.73
1:N:145:THR:HG22	1:N:264:THR:HG22	1.71	0.73
1:V:393:GLN:NE2	1:X:318:SER:OG	2.21	0.73
1:f:118:TRP:HB2	1:f:449:TYR:O	1.88	0.73
1:r:317:ARG:NH2	1:s:99:ASN:OD1	2.21	0.73
1:t:118:TRP:HB2	1:t:449:TYR:O	1.88	0.73
1:x:318:SER:OG	1:y:393:GLN:NE2	2.21	0.73
1:F:99:ASN:OD1	1:Q:317:ARG:NH2	2.21	0.73
1:S:118:TRP:HB2	1:S:449:TYR:O	1.88	0.73
1:W:318:SER:OG	1:Y:393:GLN:NE2	2.21	0.73
1:X:145:THR:HG22	1:X:264:THR:HG22	1.71	0.73
1:f:318:SER:OG	1:h:393:GLN:NE2	2.21	0.73
1:j:145:THR:HG22	1:j:264:THR:HG22	1.70	0.73
1:k:145:THR:HG22	1:k:264:THR:HG22	1.71	0.73
1:o:318:SER:OG	1:p:393:GLN:NE2	2.21	0.73
1:p:118:TRP:HB2	1:p:449:TYR:O	1.88	0.73
1:l:118:TRP:HB2	1:l:449:TYR:O	1.88	0.73
1:6:318:SER:OG	1:7:393:GLN:NE2	2.21	0.73
1:F:145:THR:HG22	1:F:264:THR:HG22	1.71	0.73
1:G:318:SER:OG	1:I:393:GLN:NE2	2.21	0.73
1:H:99:ASN:OD1	1:Y:317:ARG:NH2	2.21	0.73
1:K:118:TRP:HB2	1:K:449:TYR:O	1.88	0.73
1:P:118:TRP:HB2	1:P:449:TYR:O	1.88	0.73
1:P:145:THR:HG22	1:P:264:THR:HG22	1.70	0.73
1:U:145:THR:HG22	1:U:264:THR:HG22	1.71	0.73
1:j:318:SER:OG	1:k:393:GLN:NE2	2.21	0.73
1:r:118:TRP:HB2	1:r:449:TYR:O	1.88	0.73
1:s:145:THR:HG22	1:s:264:THR:HG22	1.71	0.73
1:u:145:THR:HG22	1:u:264:THR:HG22	1.71	0.73
1:u:317:ARG:NH2	1:v:99:ASN:OD1	2.21	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:v:118:TRP:HB2	1:v:449:TYR:O	1.88	0.73
1:x:317:ARG:NH2	1:y:99:ASN:OD1	2.21	0.73
1:4:118:TRP:HB2	1:4:449:TYR:O	1.88	0.73
1:5:99:ASN:OD1	1:7:317:ARG:NH2	2.21	0.73
1:A:99:ASN:OD1	1:I:317:ARG:NH2	2.21	0.73
1:D:145:THR:HG22	1:D:264:THR:HG22	1.71	0.73
1:D:393:GLN:NE2	1:P:318:SER:OG	2.21	0.73
1:H:393:GLN:NE2	1:Y:318:SER:OG	2.21	0.73
1:T:145:THR:HG22	1:T:264:THR:HG22	1.70	0.73
1:d:118:TRP:HB2	1:d:449:TYR:O	1.88	0.73
1:j:118:TRP:HB2	1:j:449:TYR:O	1.88	0.73
1:n:118:TRP:HB2	1:n:449:TYR:O	1.88	0.73
1:o:317:ARG:NH2	1:p:99:ASN:OD1	2.20	0.73
1:p:145:THR:HG22	1:p:264:THR:HG22	1.71	0.73
1:A:118:TRP:HB2	1:A:449:TYR:O	1.88	0.73
1:A:318:SER:OG	1:G:393:GLN:NE2	2.21	0.73
1:F:118:TRP:HB2	1:F:449:TYR:O	1.88	0.73
1:R:99:ASN:OD1	1:U:317:ARG:NH2	2.21	0.73
1:V:118:TRP:HB2	1:V:449:TYR:O	1.88	0.73
1:Y:145:THR:HG22	1:Y:264:THR:HG22	1.71	0.73
1:m:145:THR:HG22	1:m:264:THR:HG22	1.70	0.73
1:t:318:SER:OG	1:u:393:GLN:NE2	2.21	0.73
1:t:393:GLN:NE2	1:v:318:SER:OG	2.21	0.73
1:y:145:THR:HG22	1:y:264:THR:HG22	1.71	0.73
1:7:145:THR:HG22	1:7:264:THR:HG22	1.71	0.73
1:N:118:TRP:HB2	1:N:449:TYR:O	1.88	0.73
1:R:145:THR:HG22	1:R:264:THR:HG22	1.71	0.73
1:S:318:SER:OG	1:U:393:GLN:NE2	2.21	0.73
1:V:145:THR:HG22	1:V:264:THR:HG22	1.71	0.73
1:g:145:THR:HG22	1:g:264:THR:HG22	1.71	0.73
1:y:118:TRP:HB2	1:y:449:TYR:O	1.88	0.73
1:5:393:GLN:NE2	1:7:318:SER:OG	2.21	0.73
1:C:145:THR:HG22	1:C:264:THR:HG22	1.71	0.72
1:D:118:TRP:HB2	1:D:449:TYR:O	1.88	0.72
1:J:118:TRP:HB2	1:J:449:TYR:O	1.88	0.72
1:T:99:ASN:OD1	1:l:317:ARG:NH2	2.20	0.72
1:l:145:THR:HG22	1:l:264:THR:HG22	1.71	0.72
1:q:99:ASN:OD1	1:s:317:ARG:NH2	2.21	0.72
1:q:145:THR:HG22	1:q:264:THR:HG22	1.71	0.72
1:r:318:SER:OG	1:s:393:GLN:NE2	2.21	0.72
1:N:318:SER:OG	1:P:393:GLN:NE2	2.21	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:O:145:THR:HG22	1:O:264:THR:HG22	1.71	0.72
1:i:118:TRP:HB2	1:i:449:TYR:O	1.88	0.72
1:k:118:TRP:HB2	1:k:449:TYR:O	1.88	0.72
1:m:156:LYS:HG2	1:m:165:THR:HG22	1.72	0.72
1:w:118:TRP:HB2	1:w:449:TYR:O	1.88	0.72
1:T:156:LYS:HG2	1:T:165:THR:HG22	1.72	0.72
1:Z:99:ASN:OD1	1:3:317:ARG:NH2	2.21	0.72
1:Z:393:GLN:NE2	1:3:318:SER:OG	2.22	0.72
1:a:317:ARG:NH2	1:8:99:ASN:OD1	2.21	0.72
1:e:145:THR:HG22	1:e:264:THR:HG22	1.70	0.72
1:i:318:SER:OG	1:j:393:GLN:NE2	2.21	0.72
1:A:156:LYS:HG2	1:A:165:THR:HG22	1.72	0.72
1:C:317:ARG:NH2	1:b:99:ASN:OD1	2.21	0.72
1:E:118:TRP:HB2	1:E:449:TYR:O	1.88	0.72
1:N:156:LYS:HG2	1:N:165:THR:HG22	1.72	0.72
1:d:318:SER:OG	1:l:393:GLN:NE2	2.22	0.72
1:i:156:LYS:HG2	1:i:165:THR:HG22	1.72	0.72
1:q:156:LYS:HG2	1:q:165:THR:HG22	1.72	0.72
1:v:156:LYS:HG2	1:v:165:THR:HG22	1.72	0.72
1:2:118:TRP:HB2	1:2:449:TYR:O	1.88	0.72
1:F:156:LYS:HG2	1:F:165:THR:HG22	1.72	0.72
1:G:156:LYS:HG2	1:G:165:THR:HG22	1.72	0.72
1:O:393:GLN:NE2	1:n:318:SER:OG	2.22	0.72
1:R:156:LYS:HG2	1:R:165:THR:HG22	1.72	0.72
1:Z:118:TRP:HB2	1:Z:449:TYR:O	1.88	0.72
1:a:318:SER:OG	1:8:393:GLN:NE2	2.22	0.72
1:c:145:THR:HG22	1:c:264:THR:HG22	1.71	0.72
1:y:156:LYS:HG2	1:y:165:THR:HG22	1.72	0.72
1:8:118:TRP:HB2	1:8:449:TYR:O	1.88	0.72
1:M:99:ASN:OD1	1:b:317:ARG:NH2	2.22	0.72
1:O:156:LYS:HG2	1:O:165:THR:HG22	1.72	0.72
1:Y:156:LYS:HG2	1:Y:165:THR:HG22	1.72	0.72
1:c:317:ARG:NH2	1:o:99:ASN:OD1	2.22	0.72
1:f:99:ASN:OD1	1:g:317:ARG:NH2	2.21	0.72
1:l:156:LYS:HG2	1:l:165:THR:HG22	1.72	0.72
1:z:99:ASN:OD1	1:2:317:ARG:NH2	2.22	0.72
1:7:156:LYS:HG2	1:7:165:THR:HG22	1.72	0.72
1:J:145:THR:HG22	1:J:264:THR:HG22	1.71	0.72
1:K:393:GLN:NE2	1:8:318:SER:OG	2.22	0.72
1:V:156:LYS:HG2	1:V:165:THR:HG22	1.72	0.72
1:X:99:ASN:OD1	1:e:317:ARG:NH2	2.22	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Z:145:THR:HG22	1:Z:264:THR:HG22	1.71	0.72
1:f:317:ARG:NH2	1:h:99:ASN:OD1	2.22	0.72
1:t:156:LYS:HG2	1:t:165:THR:HG22	1.72	0.72
1:x:145:THR:HG22	1:x:264:THR:HG22	1.71	0.72
1:C:156:LYS:HG2	1:C:165:THR:HG22	1.72	0.72
1:K:145:THR:HG22	1:K:264:THR:HG22	1.70	0.72
1:Z:318:SER:OG	1:4:393:GLN:NE2	2.22	0.72
1:g:156:LYS:HG2	1:g:165:THR:HG22	1.72	0.72
1:p:156:LYS:HG2	1:p:165:THR:HG22	1.72	0.72
1:s:156:LYS:HG2	1:s:165:THR:HG22	1.72	0.72
1:2:145:THR:HG22	1:2:264:THR:HG22	1.71	0.72
1:4:145:THR:HG22	1:4:264:THR:HG22	1.71	0.72
1:6:317:ARG:NH2	1:7:99:ASN:OD1	2.21	0.72
1:B:145:THR:HG22	1:B:264:THR:HG22	1.71	0.72
1:L:156:LYS:HG2	1:L:165:THR:HG22	1.72	0.72
1:O:318:SER:OG	1:m:393:GLN:NE2	2.22	0.72
1:Q:145:THR:HG22	1:Q:264:THR:HG22	1.71	0.72
1:u:156:LYS:HG2	1:u:165:THR:HG22	1.72	0.72
1:w:156:LYS:HG2	1:w:165:THR:HG22	1.72	0.72
1:8:145:THR:HG22	1:8:264:THR:HG22	1.71	0.72
1:E:156:LYS:HG2	1:E:165:THR:HG22	1.72	0.72
1:G:145:THR:HG22	1:G:264:THR:HG22	1.71	0.72
1:I:156:LYS:HG2	1:I:165:THR:HG22	1.72	0.72
1:T:393:GLN:NE2	1:l:318:SER:OG	2.22	0.72
1:U:156:LYS:HG2	1:U:165:THR:HG22	1.72	0.72
1:W:317:ARG:NH2	1:Y:99:ASN:OD1	2.21	0.72
1:d:156:LYS:HG2	1:d:165:THR:HG22	1.72	0.72
1:t:145:THR:HG22	1:t:264:THR:HG22	1.71	0.72
1:z:156:LYS:HG2	1:z:165:THR:HG22	1.72	0.72
1:L:145:THR:HG22	1:L:264:THR:HG22	1.71	0.71
1:b:145:THR:HG22	1:b:264:THR:HG22	1.71	0.71
1:w:145:THR:HG22	1:w:264:THR:HG22	1.71	0.71
1:D:156:LYS:HG2	1:D:165:THR:HG22	1.72	0.71
1:E:145:THR:HG22	1:E:264:THR:HG22	1.71	0.71
1:X:156:LYS:HG2	1:X:165:THR:HG22	1.72	0.71
1:f:156:LYS:HG2	1:f:165:THR:HG22	1.72	0.71
1:k:156:LYS:HG2	1:k:165:THR:HG22	1.72	0.71
1:n:156:LYS:HG2	1:n:165:THR:HG22	1.72	0.71
1:o:156:LYS:HG2	1:o:165:THR:HG22	1.72	0.71
1:l:145:THR:HG22	1:l:264:THR:HG22	1.71	0.71
1:K:318:SER:OG	1:a:393:GLN:NE2	2.21	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:x:156:LYS:HG2	1:x:165:THR:HG22	1.72	0.71
1:z:145:THR:HG22	1:z:264:THR:HG22	1.71	0.71
1:A:145:THR:HG22	1:A:264:THR:HG22	1.71	0.71
1:J:156:LYS:HG2	1:J:165:THR:HG22	1.72	0.71
1:Q:156:LYS:HG2	1:Q:165:THR:HG22	1.72	0.71
1:a:118:TRP:HB2	1:a:449:TYR:O	1.88	0.71
1:f:145:THR:HG22	1:f:264:THR:HG22	1.71	0.71
1:r:156:LYS:HG2	1:r:165:THR:HG22	1.72	0.71
1:v:145:THR:HG22	1:v:264:THR:HG22	1.71	0.71
1:3:393:GLN:NE2	1:4:318:SER:OG	2.21	0.71
1:b:156:LYS:HG2	1:b:165:THR:HG22	1.72	0.71
1:H:156:LYS:HG2	1:H:165:THR:HG22	1.72	0.71
1:O:99:ASN:OD1	1:n:317:ARG:NH2	2.21	0.71
1:S:156:LYS:HG2	1:S:165:THR:HG22	1.72	0.71
1:a:156:LYS:HG2	1:a:165:THR:HG22	1.72	0.71
1:2:156:LYS:HG2	1:2:165:THR:HG22	1.72	0.71
1:3:118:TRP:HB2	1:3:449:TYR:O	1.88	0.71
1:3:156:LYS:HG2	1:3:165:THR:HG22	1.72	0.71
1:j:156:LYS:HG2	1:j:165:THR:HG22	1.72	0.71
1:6:156:LYS:HG2	1:6:165:THR:HG22	1.72	0.71
1:R:316:ASP:OD2	1:S:368:ARG:NE	2.20	0.71
1:W:145:THR:HG22	1:W:264:THR:HG22	1.71	0.71
1:d:317:ARG:NH2	1:l:99:ASN:OD1	2.21	0.71
1:e:156:LYS:HG2	1:e:165:THR:HG22	1.72	0.71
1:h:145:THR:HG22	1:h:264:THR:HG22	1.71	0.71
1:5:156:LYS:HG2	1:5:165:THR:HG22	1.72	0.71
1:6:145:THR:HG22	1:6:264:THR:HG22	1.71	0.71
1:M:145:THR:HG22	1:M:264:THR:HG22	1.71	0.71
1:W:156:LYS:HG2	1:W:165:THR:HG22	1.72	0.71
1:M:156:LYS:HG2	1:M:165:THR:HG22	1.72	0.71
1:P:156:LYS:HG2	1:P:165:THR:HG22	1.72	0.71
1:c:156:LYS:HG2	1:c:165:THR:HG22	1.72	0.71
1:f:28:GLY:HA3	1:f:41:ASN:H	1.56	0.71
1:5:28:GLY:HA3	1:5:41:ASN:H	1.56	0.71
1:H:28:GLY:HA3	1:H:41:ASN:H	1.56	0.70
1:J:28:GLY:HA3	1:J:41:ASN:H	1.56	0.70
1:b:28:GLY:HA3	1:b:41:ASN:H	1.56	0.70
1:h:156:LYS:HG2	1:h:165:THR:HG22	1.72	0.70
1:q:316:ASP:OD2	1:r:368:ARG:NE	2.20	0.70
1:v:28:GLY:HA3	1:v:41:ASN:H	1.56	0.70
1:z:317:ARG:NH2	1:l:99:ASN:OD1	2.24	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:4:156:LYS:HG2	1:4:165:THR:HG22	1.72	0.70
1:A:28:GLY:HA3	1:A:41:ASN:H	1.56	0.70
1:K:156:LYS:HG2	1:K:165:THR:HG22	1.72	0.70
1:w:28:GLY:HA3	1:w:41:ASN:H	1.56	0.70
1:A:316:ASP:OD2	1:G:368:ARG:NE	2.22	0.70
1:B:28:GLY:HA3	1:B:41:ASN:H	1.56	0.70
1:B:317:ARG:NH2	1:J:99:ASN:OD1	2.24	0.70
1:E:28:GLY:HA3	1:E:41:ASN:H	1.56	0.70
1:G:316:ASP:OD2	1:I:368:ARG:NE	2.22	0.70
1:R:28:GLY:HA3	1:R:41:ASN:H	1.56	0.70
1:1:28:GLY:HA3	1:1:41:ASN:H	1.56	0.70
1:5:145:THR:HG22	1:5:264:THR:HG22	1.70	0.70
1:H:145:THR:HG22	1:H:264:THR:HG22	1.70	0.70
1:e:28:GLY:HA3	1:e:41:ASN:H	1.56	0.70
1:q:28:GLY:HA3	1:q:41:ASN:H	1.56	0.70
1:s:28:GLY:HA3	1:s:41:ASN:H	1.56	0.70
1:2:28:GLY:HA3	1:2:41:ASN:H	1.56	0.70
1:B:156:LYS:HG2	1:B:165:THR:HG22	1.72	0.70
1:C:368:ARG:NE	1:M:316:ASP:OD2	2.22	0.70
1:c:28:GLY:HA3	1:c:41:ASN:H	1.56	0.70
1:t:368:ARG:NE	1:v:316:ASP:OD2	2.22	0.70
1:1:317:ARG:NH2	1:2:99:ASN:OD1	2.24	0.70
1:D:28:GLY:HA3	1:D:41:ASN:H	1.56	0.70
1:N:28:GLY:HA3	1:N:41:ASN:H	1.56	0.70
1:R:368:ARG:NE	1:U:316:ASP:OD2	2.21	0.70
1:U:28:GLY:HA3	1:U:41:ASN:H	1.56	0.70
1:V:316:ASP:OD2	1:e:368:ARG:NE	2.22	0.70
1:i:28:GLY:HA3	1:i:41:ASN:H	1.56	0.70
1:j:28:GLY:HA3	1:j:41:ASN:H	1.56	0.70
1:A:368:ARG:NE	1:I:316:ASP:OD2	2.22	0.70
1:W:28:GLY:HA3	1:W:41:ASN:H	1.56	0.70
1:g:368:ARG:NE	1:h:316:ASP:OD2	2.22	0.70
1:k:28:GLY:HA3	1:k:41:ASN:H	1.56	0.70
1:q:368:ARG:NE	1:s:316:ASP:OD2	2.21	0.70
1:t:316:ASP:OD2	1:u:368:ARG:NE	2.22	0.70
1:1:156:LYS:HG2	1:1:165:THR:HG22	1.72	0.70
1:8:28:GLY:HA3	1:8:41:ASN:H	1.56	0.70
1:8:156:LYS:HG2	1:8:165:THR:HG22	1.72	0.70
1:P:28:GLY:HA3	1:P:41:ASN:H	1.56	0.70
1:Z:156:LYS:HG2	1:Z:165:THR:HG22	1.72	0.70
1:c:368:ARG:NE	1:p:316:ASP:OD2	2.22	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:y:28:GLY:HA3	1:y:41:ASN:H	1.56	0.70
1:6:28:GLY:HA3	1:6:41:ASN:H	1.56	0.70
1:F:28:GLY:HA3	1:F:41:ASN:H	1.56	0.70
1:S:28:GLY:HA3	1:S:41:ASN:H	1.56	0.70
1:X:77:ILE:HG12	1:X:106:VAL:HG12	1.74	0.70
1:D:77:ILE:HG12	1:D:106:VAL:HG12	1.74	0.70
1:Z:28:GLY:HA3	1:Z:41:ASN:H	1.56	0.70
1:k:77:ILE:HG12	1:k:106:VAL:HG12	1.74	0.70
1:o:77:ILE:HG12	1:o:106:VAL:HG12	1.74	0.70
1:p:28:GLY:HA3	1:p:41:ASN:H	1.56	0.70
1:u:316:ASP:OD2	1:v:368:ARG:NE	2.22	0.70
1:C:28:GLY:HA3	1:C:41:ASN:H	1.56	0.69
1:F:77:ILE:HG12	1:F:106:VAL:HG12	1.74	0.69
1:G:77:ILE:HG12	1:G:106:VAL:HG12	1.74	0.69
1:W:316:ASP:OD2	1:Y:368:ARG:NE	2.22	0.69
1:d:28:GLY:HA3	1:d:41:ASN:H	1.56	0.69
1:g:28:GLY:HA3	1:g:41:ASN:H	1.56	0.69
1:4:28:GLY:HA3	1:4:41:ASN:H	1.56	0.69
1:T:77:ILE:HG12	1:T:106:VAL:HG12	1.74	0.69
1:V:28:GLY:HA3	1:V:41:ASN:H	1.56	0.69
1:m:77:ILE:HG12	1:m:106:VAL:HG12	1.74	0.69
1:n:28:GLY:HA3	1:n:41:ASN:H	1.56	0.69
1:r:28:GLY:HA3	1:r:41:ASN:H	1.56	0.69
1:t:77:ILE:HG12	1:t:106:VAL:HG12	1.74	0.69
1:w:77:ILE:HG12	1:w:106:VAL:HG12	1.74	0.69
1:3:77:ILE:HG12	1:3:106:VAL:HG12	1.74	0.69
1:E:77:ILE:HG12	1:E:106:VAL:HG12	1.74	0.69
1:S:77:ILE:HG12	1:S:106:VAL:HG12	1.74	0.69
1:a:77:ILE:HG12	1:a:106:VAL:HG12	1.74	0.69
1:d:77:ILE:HG12	1:d:106:VAL:HG12	1.74	0.69
1:n:77:ILE:HG12	1:n:106:VAL:HG12	1.74	0.69
1:o:28:GLY:HA3	1:o:41:ASN:H	1.56	0.69
1:y:77:ILE:HG12	1:y:106:VAL:HG12	1.74	0.69
1:6:316:ASP:OD2	1:7:368:ARG:NE	2.22	0.69
1:G:28:GLY:HA3	1:G:41:ASN:H	1.56	0.69
1:K:28:GLY:HA3	1:K:41:ASN:H	1.56	0.69
1:L:77:ILE:HG12	1:L:106:VAL:HG12	1.74	0.69
1:T:28:GLY:HA3	1:T:41:ASN:H	1.56	0.69
1:V:77:ILE:HG12	1:V:106:VAL:HG12	1.74	0.69
1:p:77:ILE:HG12	1:p:106:VAL:HG12	1.74	0.69
1:r:77:ILE:HG12	1:r:106:VAL:HG12	1.74	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:z:316:ASP:OD2	1:1:368:ARG:NE	2.20	0.69
1:M:28:GLY:HA3	1:M:41:ASN:H	1.56	0.69
1:X:28:GLY:HA3	1:X:41:ASN:H	1.56	0.69
1:Y:77:ILE:HG12	1:Y:106:VAL:HG12	1.74	0.69
1:a:28:GLY:HA3	1:a:41:ASN:H	1.56	0.69
1:q:77:ILE:HG12	1:q:106:VAL:HG12	1.74	0.69
1:t:28:GLY:HA3	1:t:41:ASN:H	1.56	0.69
1:z:77:ILE:HG12	1:z:106:VAL:HG12	1.74	0.69
1:3:28:GLY:HA3	1:3:41:ASN:H	1.56	0.69
1:7:77:ILE:HG12	1:7:106:VAL:HG12	1.74	0.69
1:H:316:ASP:OD2	1:W:368:ARG:NE	2.22	0.69
1:J:77:ILE:HG12	1:J:106:VAL:HG12	1.74	0.69
1:R:77:ILE:HG12	1:R:106:VAL:HG12	1.74	0.69
1:g:77:ILE:HG12	1:g:106:VAL:HG12	1.74	0.69
1:m:28:GLY:HA3	1:m:41:ASN:H	1.56	0.69
1:2:77:ILE:HG12	1:2:106:VAL:HG12	1.74	0.69
1:5:316:ASP:OD2	1:6:368:ARG:NE	2.22	0.69
1:C:77:ILE:HG12	1:C:106:VAL:HG12	1.75	0.69
1:L:28:GLY:HA3	1:L:41:ASN:H	1.56	0.69
1:P:77:ILE:HG12	1:P:106:VAL:HG12	1.74	0.69
1:Y:28:GLY:HA3	1:Y:41:ASN:H	1.56	0.69
1:j:77:ILE:HG12	1:j:106:VAL:HG12	1.74	0.69
1:D:316:ASP:OD2	1:N:368:ARG:NE	2.22	0.69
1:H:77:ILE:HG12	1:H:106:VAL:HG12	1.74	0.69
1:Q:28:GLY:HA3	1:Q:41:ASN:H	1.56	0.69
1:Q:77:ILE:HG12	1:Q:106:VAL:HG12	1.74	0.69
1:U:77:ILE:HG12	1:U:106:VAL:HG12	1.74	0.69
1:e:77:ILE:HG12	1:e:106:VAL:HG12	1.74	0.69
1:h:28:GLY:HA3	1:h:41:ASN:H	1.56	0.69
1:i:368:ARG:NE	1:k:316:ASP:OD2	2.22	0.69
1:x:28:GLY:HA3	1:x:41:ASN:H	1.56	0.69
1:z:28:GLY:HA3	1:z:41:ASN:H	1.56	0.69
1:5:77:ILE:HG12	1:5:106:VAL:HG12	1.74	0.69
1:5:368:ARG:NE	1:7:316:ASP:OD2	2.22	0.69
1:7:28:GLY:HA3	1:7:41:ASN:H	1.56	0.69
1:E:368:ARG:NE	1:F:316:ASP:OD2	2.22	0.69
1:N:77:ILE:HG12	1:N:106:VAL:HG12	1.74	0.69
1:b:77:ILE:HG12	1:b:106:VAL:HG12	1.74	0.69
1:i:77:ILE:HG12	1:i:106:VAL:HG12	1.74	0.69
1:s:77:ILE:HG12	1:s:106:VAL:HG12	1.74	0.69
1:z:368:ARG:NE	1:2:316:ASP:OD2	2.20	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:368:ARG:NE	1:b:316:ASP:OD2	2.21	0.69
1:c:77:ILE:HG12	1:c:106:VAL:HG12	1.74	0.69
1:q:317:ARG:NH2	1:r:99:ASN:OD1	2.24	0.69
1:w:368:ARG:NE	1:y:316:ASP:OD2	2.22	0.69
1:x:77:ILE:HG12	1:x:106:VAL:HG12	1.74	0.69
1:B:368:ARG:NE	1:L:316:ASP:OD2	2.21	0.68
1:I:77:ILE:HG12	1:I:106:VAL:HG12	1.74	0.68
1:R:317:ARG:NH2	1:S:99:ASN:OD1	2.24	0.68
1:l:28:GLY:HA3	1:l:41:ASN:H	1.56	0.68
1:u:28:GLY:HA3	1:u:41:ASN:H	1.56	0.68
1:M:77:ILE:HG12	1:M:106:VAL:HG12	1.74	0.68
1:f:77:ILE:HG12	1:f:106:VAL:HG12	1.74	0.68
1:f:316:ASP:OD2	1:h:368:ARG:NE	2.21	0.68
1:u:77:ILE:HG12	1:u:106:VAL:HG12	1.74	0.68
1:I:28:GLY:HA3	1:I:41:ASN:H	1.56	0.68
1:N:316:ASP:OD2	1:P:368:ARG:NE	2.22	0.68
1:h:77:ILE:HG12	1:h:106:VAL:HG12	1.74	0.68
1:A:77:ILE:HG12	1:A:106:VAL:HG12	1.74	0.68
1:O:28:GLY:HA3	1:O:41:ASN:H	1.56	0.68
1:W:77:ILE:HG12	1:W:106:VAL:HG12	1.74	0.68
1:l:77:ILE:HG12	1:l:106:VAL:HG12	1.74	0.68
1:6:77:ILE:HG12	1:6:106:VAL:HG12	1.74	0.68
1:8:77:ILE:HG12	1:8:106:VAL:HG12	1.74	0.68
1:B:77:ILE:HG12	1:B:106:VAL:HG12	1.74	0.68
1:S:316:ASP:OD2	1:U:368:ARG:NE	2.22	0.68
1:v:77:ILE:HG12	1:v:106:VAL:HG12	1.74	0.68
1:H:368:ARG:NE	1:Y:316:ASP:OD2	2.22	0.68
1:O:77:ILE:HG12	1:O:106:VAL:HG12	1.74	0.68
1:Z:77:ILE:HG12	1:Z:106:VAL:HG12	1.74	0.68
1:1:77:ILE:HG12	1:1:106:VAL:HG12	1.74	0.68
1:i:316:ASP:OD2	1:j:368:ARG:NE	2.22	0.68
1:Z:316:ASP:OD2	1:4:368:ARG:NE	2.22	0.68
1:4:77:ILE:HG12	1:4:106:VAL:HG12	1.74	0.68
1:D:368:ARG:NE	1:P:316:ASP:OD2	2.22	0.68
1:K:77:ILE:HG12	1:K:106:VAL:HG12	1.74	0.68
1:r:316:ASP:OD2	1:s:368:ARG:NE	2.22	0.68
1:E:316:ASP:OD2	1:Q:368:ARG:NE	2.22	0.68
1:J:316:ASP:OD2	1:L:368:ARG:NE	2.22	0.68
1:K:368:ARG:NE	1:8:316:ASP:OD2	2.22	0.67
1:j:316:ASP:OD2	1:k:368:ARG:NE	2.22	0.67
1:w:316:ASP:OD2	1:x:368:ARG:NE	2.22	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:g:531:LEU:HD11	1:z:128:GLN:CG	2.24	0.67
1:B:416:ASN:OD1	1:J:371:GLN:NE2	2.28	0.67
1:x:316:ASP:OD2	1:y:368:ARG:NE	2.22	0.67
1:B:316:ASP:OD2	1:J:368:ARG:NE	2.20	0.66
1:z:416:ASN:OD1	1:1:371:GLN:NE2	2.28	0.66
1:R:416:ASN:OD1	1:S:371:GLN:NE2	2.28	0.66
1:m:316:ASP:OD2	1:n:368:ARG:NE	2.22	0.66
1:7:128:GLN:CG	1:8:531:LEU:HD11	2.26	0.66
1:K:316:ASP:OD2	1:a:368:ARG:NE	2.22	0.66
1:T:316:ASP:OD2	1:d:368:ARG:NE	2.22	0.66
1:Z:368:ARG:NE	1:3:316:ASP:OD2	2.22	0.66
1:q:416:ASN:OD1	1:r:371:GLN:NE2	2.28	0.66
1:G:128:GLN:CG	1:H:531:LEU:HD11	2.26	0.66
1:U:100:ASP:OD2	1:U:218:ASN:ND2	2.29	0.66
1:Y:128:GLN:CG	1:Z:531:LEU:HD11	2.26	0.66
1:s:100:ASP:OD2	1:s:218:ASN:ND2	2.29	0.66
1:t:128:GLN:CG	1:5:531:LEU:HD11	2.26	0.66
1:G:531:LEU:HD11	1:H:128:GLN:CG	2.26	0.66
1:a:316:ASP:OD2	1:8:368:ARG:NE	2.22	0.66
1:d:100:ASP:OD2	1:d:218:ASN:ND2	2.29	0.66
1:t:531:LEU:HD11	1:5:128:GLN:CG	2.26	0.66
1:D:128:GLN:CG	1:M:531:LEU:HD11	2.26	0.66
1:K:100:ASP:OD2	1:K:218:ASN:ND2	2.29	0.66
1:e:100:ASP:OD2	1:e:218:ASN:ND2	2.29	0.66
1:e:531:LEU:HD11	1:f:128:GLN:CG	2.26	0.66
1:A:128:GLN:CG	1:F:531:LEU:HD11	2.26	0.66
1:F:100:ASP:OD2	1:F:218:ASN:ND2	2.29	0.66
1:c:100:ASP:OD2	1:c:218:ASN:ND2	2.29	0.66
1:h:531:LEU:HD11	1:k:128:GLN:CG	2.26	0.66
1:p:128:GLN:CG	1:s:531:LEU:HD11	2.26	0.66
1:y:100:ASP:OD2	1:y:218:ASN:ND2	2.29	0.66
1:3:368:ARG:NE	1:4:316:ASP:OD2	2.22	0.66
1:A:100:ASP:OD2	1:A:218:ASN:ND2	2.29	0.66
1:M:100:ASP:OD2	1:M:218:ASN:ND2	2.29	0.66
1:O:316:ASP:OD2	1:m:368:ARG:NE	2.23	0.66
1:T:368:ARG:NE	1:l:316:ASP:OD2	2.23	0.66
1:U:531:LEU:HD11	1:V:128:GLN:CG	2.26	0.66
1:h:100:ASP:OD2	1:h:218:ASN:ND2	2.29	0.66
1:h:128:GLN:CG	1:k:531:LEU:HD11	2.26	0.66
1:x:100:ASP:OD2	1:x:218:ASN:ND2	2.29	0.66
1:1:100:ASP:OD2	1:1:218:ASN:ND2	2.29	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:2:128:GLN:CG	1:4:531:LEU:HD11	2.26	0.66
1:4:100:ASP:OD2	1:4:218:ASN:ND2	2.29	0.66
1:8:100:ASP:OD2	1:8:218:ASN:ND2	2.29	0.66
1:B:315:GLY:H	1:B:417:LEU:HD23	1.61	0.66
1:D:531:LEU:HD11	1:M:128:GLN:CG	2.26	0.66
1:J:128:GLN:CG	1:K:531:LEU:HD11	2.26	0.66
1:Q:100:ASP:OD2	1:Q:218:ASN:ND2	2.29	0.66
1:Z:100:ASP:OD2	1:Z:218:ASN:ND2	2.29	0.66
1:b:128:GLN:CG	1:c:531:LEU:HD11	2.26	0.66
1:i:531:LEU:HD11	1:l:128:GLN:CG	2.26	0.66
1:k:100:ASP:OD2	1:k:218:ASN:ND2	2.29	0.66
1:v:128:GLN:CG	1:y:531:LEU:HD11	2.26	0.66
1:3:100:ASP:OD2	1:3:218:ASN:ND2	2.29	0.66
1:B:100:ASP:OD2	1:B:218:ASN:ND2	2.29	0.65
1:D:100:ASP:OD2	1:D:218:ASN:ND2	2.29	0.65
1:N:531:LEU:HD11	1:O:128:GLN:CG	2.26	0.65
1:U:128:GLN:CG	1:V:531:LEU:HD11	2.26	0.65
1:X:315:GLY:H	1:X:417:LEU:HD23	1.62	0.65
1:a:100:ASP:OD2	1:a:218:ASN:ND2	2.29	0.65
1:m:128:GLN:CG	1:r:531:LEU:HD11	2.26	0.65
1:o:315:GLY:H	1:o:417:LEU:HD23	1.62	0.65
1:v:100:ASP:OD2	1:v:218:ASN:ND2	2.29	0.65
1:1:315:GLY:H	1:1:417:LEU:HD23	1.62	0.65
1:1:316:ASP:OD2	1:2:368:ARG:NE	2.20	0.65
1:2:100:ASP:OD2	1:2:218:ASN:ND2	2.29	0.65
1:A:315:GLY:H	1:A:417:LEU:HD23	1.62	0.65
1:B:109:PRO:HA	1:B:209:GLN:HE21	1.62	0.65
1:G:100:ASP:OD2	1:G:218:ASN:ND2	2.29	0.65
1:K:315:GLY:H	1:K:417:LEU:HD23	1.62	0.65
1:S:531:LEU:HD11	1:T:128:GLN:CG	2.27	0.65
1:Z:109:PRO:HA	1:Z:209:GLN:HE21	1.62	0.65
1:a:128:GLN:CG	1:3:531:LEU:HD11	2.26	0.65
1:a:531:LEU:HD11	1:3:128:GLN:CG	2.26	0.65
1:g:128:GLN:CG	1:z:531:LEU:HD11	2.25	0.65
1:p:531:LEU:HD11	1:s:128:GLN:CG	2.26	0.65
1:t:100:ASP:OD2	1:t:218:ASN:ND2	2.29	0.65
1:1:416:ASN:OD1	1:2:371:GLN:NE2	2.29	0.65
1:4:315:GLY:H	1:4:417:LEU:HD23	1.62	0.65
1:E:531:LEU:HD11	1:P:128:GLN:CG	2.26	0.65
1:J:100:ASP:OD2	1:J:218:ASN:ND2	2.29	0.65
1:N:315:GLY:H	1:N:417:LEU:HD23	1.61	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:V:368:ARG:NE	1:X:316:ASP:OD2	2.22	0.65
1:X:371:GLN:NE2	1:e:416:ASN:OD1	2.29	0.65
1:Y:531:LEU:HD11	1:Z:128:GLN:CG	2.26	0.65
1:f:416:ASN:OD1	1:h:371:GLN:NE2	2.29	0.65
1:v:315:GLY:H	1:v:417:LEU:HD23	1.62	0.65
1:1:109:PRO:HA	1:1:209:GLN:HE21	1.62	0.65
1:7:531:LEU:HD11	1:8:128:GLN:CG	2.26	0.65
1:T:100:ASP:OD2	1:T:218:ASN:ND2	2.29	0.65
1:U:315:GLY:H	1:U:417:LEU:HD23	1.62	0.65
1:m:100:ASP:OD2	1:m:218:ASN:ND2	2.29	0.65
1:n:109:PRO:HA	1:n:209:GLN:HE21	1.62	0.65
1:8:109:PRO:HA	1:8:209:GLN:HE21	1.62	0.65
1:A:531:LEU:HD11	1:F:128:GLN:CG	2.26	0.65
1:M:371:GLN:NE2	1:b:416:ASN:OD1	2.29	0.65
1:N:128:GLN:CG	1:O:531:LEU:HD11	2.26	0.65
1:U:109:PRO:HA	1:U:209:GLN:HE21	1.62	0.65
1:Y:100:ASP:OD2	1:Y:218:ASN:ND2	2.29	0.65
1:b:100:ASP:OD2	1:b:218:ASN:ND2	2.29	0.65
1:c:416:ASN:OD1	1:o:371:GLN:NE2	2.29	0.65
1:d:109:PRO:HA	1:d:209:GLN:HE21	1.62	0.65
1:i:315:GLY:H	1:i:417:LEU:HD23	1.62	0.65
1:r:109:PRO:HA	1:r:209:GLN:HE21	1.62	0.65
1:v:531:LEU:HD11	1:y:128:GLN:CG	2.26	0.65
1:D:315:GLY:H	1:D:417:LEU:HD23	1.62	0.65
1:L:100:ASP:OD2	1:L:218:ASN:ND2	2.29	0.65
1:M:109:PRO:HA	1:M:209:GLN:HE21	1.62	0.65
1:N:100:ASP:OD2	1:N:218:ASN:ND2	2.29	0.65
1:S:109:PRO:HA	1:S:209:GLN:HE21	1.62	0.65
1:W:109:PRO:HA	1:W:209:GLN:HE21	1.62	0.65
1:d:128:GLN:CG	1:n:531:LEU:HD11	2.26	0.65
1:f:100:ASP:OD2	1:f:218:ASN:ND2	2.29	0.65
1:h:109:PRO:HA	1:h:209:GLN:HE21	1.62	0.65
1:o:316:ASP:OD2	1:p:368:ARG:NE	2.22	0.65
1:s:109:PRO:HA	1:s:209:GLN:HE21	1.62	0.65
1:y:109:PRO:HA	1:y:209:GLN:HE21	1.62	0.65
1:5:109:PRO:HA	1:5:209:GLN:HE21	1.62	0.65
1:6:109:PRO:HA	1:6:209:GLN:HE21	1.62	0.65
1:7:100:ASP:OD2	1:7:218:ASN:ND2	2.29	0.65
1:C:128:GLN:CG	1:L:531:LEU:HD11	2.26	0.65
1:C:531:LEU:HD11	1:L:128:GLN:CG	2.26	0.65
1:F:109:PRO:HA	1:F:209:GLN:HE21	1.62	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:109:PRO:HA	1:H:209:GLN:HE21	1.62	0.65
1:Q:531:LEU:HD11	1:R:128:GLN:CG	2.26	0.65
1:T:109:PRO:HA	1:T:209:GLN:HE21	1.62	0.65
1:V:315:GLY:H	1:V:417:LEU:HD23	1.62	0.65
1:W:128:GLN:CG	1:X:531:LEU:HD11	2.26	0.65
1:d:531:LEU:HD11	1:n:128:GLN:CG	2.26	0.65
1:g:100:ASP:OD2	1:g:218:ASN:ND2	2.29	0.65
1:i:128:GLN:CG	1:l:531:LEU:HD11	2.26	0.65
1:j:128:GLN:CG	1:w:531:LEU:HD11	2.26	0.65
1:m:109:PRO:HA	1:m:209:GLN:HE21	1.62	0.65
1:p:315:GLY:H	1:p:417:LEU:HD23	1.62	0.65
1:s:315:GLY:H	1:s:417:LEU:HD23	1.62	0.65
1:u:128:GLN:CG	1:1:531:LEU:HD11	2.26	0.65
1:1:44:ASN:HD21	1:1:63:ARG:HH12	1.45	0.65
1:3:109:PRO:HA	1:3:209:GLN:HE21	1.62	0.65
1:B:44:ASN:HD21	1:B:63:ARG:HH12	1.45	0.65
1:B:140:GLU:HG3	1:B:520:LYS:HG2	1.79	0.65
1:F:44:ASN:HD21	1:F:63:ARG:HH12	1.45	0.65
1:F:368:ARG:NE	1:Q:316:ASP:OD2	2.22	0.65
1:M:44:ASN:HD21	1:M:63:ARG:HH12	1.45	0.65
1:a:109:PRO:HA	1:a:209:GLN:HE21	1.62	0.65
1:h:44:ASN:HD21	1:h:63:ARG:HH12	1.45	0.65
1:i:100:ASP:OD2	1:i:218:ASN:ND2	2.29	0.65
1:j:531:LEU:HD11	1:w:128:GLN:CG	2.26	0.65
1:k:315:GLY:H	1:k:417:LEU:HD23	1.62	0.65
1:q:128:GLN:CG	1:x:531:LEU:HD11	2.26	0.65
1:y:44:ASN:HD21	1:y:63:ARG:HH12	1.45	0.65
1:z:100:ASP:OD2	1:z:218:ASN:ND2	2.29	0.65
1:z:315:GLY:H	1:z:417:LEU:HD23	1.61	0.65
1:1:140:GLU:HG3	1:1:520:LYS:HG2	1.79	0.65
1:A:416:ASN:OD1	1:G:371:GLN:NE2	2.30	0.65
1:C:100:ASP:OD2	1:C:218:ASN:ND2	2.29	0.65
1:E:128:GLN:CG	1:P:531:LEU:HD11	2.26	0.65
1:G:315:GLY:H	1:G:417:LEU:HD23	1.62	0.65
1:Q:128:GLN:CG	1:R:531:LEU:HD11	2.27	0.65
1:R:109:PRO:HA	1:R:209:GLN:HE21	1.62	0.65
1:R:315:GLY:H	1:R:417:LEU:HD23	1.62	0.65
1:S:416:ASN:OD1	1:U:371:GLN:NE2	2.30	0.65
1:T:44:ASN:HD21	1:T:63:ARG:HH12	1.45	0.65
1:W:531:LEU:HD11	1:X:128:GLN:CG	2.26	0.65
1:Y:140:GLU:HG3	1:Y:520:LYS:HG2	1.79	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:f:109:PRO:HA	1:f:209:GLN:HE21	1.62	0.65
1:o:128:GLN:CG	1:6:531:LEU:HD11	2.26	0.65
1:q:531:LEU:HD11	1:x:128:GLN:CG	2.26	0.65
1:r:416:ASN:OD1	1:s:371:GLN:NE2	2.30	0.65
1:t:315:GLY:H	1:t:417:LEU:HD23	1.61	0.65
1:t:371:GLN:NE2	1:v:416:ASN:OD1	2.30	0.65
1:4:44:ASN:HD21	1:4:63:ARG:HH12	1.45	0.65
1:4:140:GLU:HG3	1:4:520:LYS:HG2	1.79	0.65
1:7:140:GLU:HG3	1:7:520:LYS:HG2	1.79	0.65
1:B:531:LEU:HD11	1:I:128:GLN:CG	2.26	0.65
1:F:371:GLN:NE2	1:Q:416:ASN:OD1	2.30	0.65
1:K:44:ASN:HD21	1:K:63:ARG:HH12	1.45	0.65
1:L:315:GLY:H	1:L:417:LEU:HD23	1.62	0.65
1:O:109:PRO:HA	1:O:209:GLN:HE21	1.62	0.65
1:X:44:ASN:HD21	1:X:63:ARG:HH12	1.45	0.65
1:d:140:GLU:HG3	1:d:520:LYS:HG2	1.79	0.65
1:m:531:LEU:HD11	1:r:128:GLN:CG	2.26	0.65
1:n:140:GLU:HG3	1:n:520:LYS:HG2	1.79	0.65
1:o:531:LEU:HD11	1:6:128:GLN:CG	2.26	0.65
1:q:109:PRO:HA	1:q:209:GLN:HE21	1.62	0.65
1:q:315:GLY:H	1:q:417:LEU:HD23	1.61	0.65
1:t:140:GLU:HG3	1:t:520:LYS:HG2	1.79	0.65
1:u:140:GLU:HG3	1:u:520:LYS:HG2	1.79	0.65
1:x:416:ASN:OD1	1:y:371:GLN:NE2	2.30	0.65
1:2:44:ASN:HD21	1:2:63:ARG:HH12	1.45	0.65
1:6:140:GLU:HG3	1:6:520:LYS:HG2	1.79	0.65
1:8:315:GLY:H	1:8:417:LEU:HD23	1.62	0.65
1:E:140:GLU:HG3	1:E:520:LYS:HG2	1.79	0.64
1:G:140:GLU:HG3	1:G:520:LYS:HG2	1.79	0.64
1:I:140:GLU:HG3	1:I:520:LYS:HG2	1.79	0.64
1:J:44:ASN:HD21	1:J:63:ARG:HH12	1.45	0.64
1:L:140:GLU:HG3	1:L:520:LYS:HG2	1.79	0.64
1:S:44:ASN:HD21	1:S:63:ARG:HH12	1.45	0.64
1:S:315:GLY:H	1:S:417:LEU:HD23	1.61	0.64
1:W:140:GLU:HG3	1:W:520:LYS:HG2	1.79	0.64
1:W:416:ASN:OD1	1:Y:371:GLN:NE2	2.31	0.64
1:b:109:PRO:HA	1:b:209:GLN:HE21	1.62	0.64
1:m:44:ASN:HD21	1:m:63:ARG:HH12	1.45	0.64
1:o:44:ASN:HD21	1:o:63:ARG:HH12	1.45	0.64
1:r:44:ASN:HD21	1:r:63:ARG:HH12	1.45	0.64
1:r:315:GLY:H	1:r:417:LEU:HD23	1.62	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:w:109:PRO:HA	1:w:209:GLN:HE21	1.62	0.64
1:6:416:ASN:OD1	1:7:371:GLN:NE2	2.31	0.64
1:K:109:PRO:HA	1:K:209:GLN:HE21	1.62	0.64
1:K:140:GLU:HG3	1:K:520:LYS:HG2	1.79	0.64
1:Q:315:GLY:H	1:Q:417:LEU:HD23	1.62	0.64
1:S:128:GLN:CG	1:T:531:LEU:HD11	2.26	0.64
1:f:44:ASN:HD21	1:f:63:ARG:HH12	1.45	0.64
1:l:109:PRO:HA	1:l:209:GLN:HE21	1.62	0.64
1:n:315:GLY:H	1:n:417:LEU:HD23	1.62	0.64
1:o:140:GLU:HG3	1:o:520:LYS:HG2	1.79	0.64
1:p:44:ASN:HD21	1:p:63:ARG:HH12	1.45	0.64
1:z:140:GLU:HG3	1:z:520:LYS:HG2	1.79	0.64
1:E:109:PRO:HA	1:E:209:GLN:HE21	1.62	0.64
1:H:416:ASN:OD1	1:W:371:GLN:NE2	2.31	0.64
1:O:140:GLU:HG3	1:O:520:LYS:HG2	1.79	0.64
1:P:44:ASN:HD21	1:P:63:ARG:HH12	1.45	0.64
1:Q:109:PRO:HA	1:Q:209:GLN:HE21	1.62	0.64
1:U:140:GLU:HG3	1:U:520:LYS:HG2	1.79	0.64
1:V:44:ASN:HD21	1:V:63:ARG:HH12	1.45	0.64
1:X:140:GLU:HG3	1:X:520:LYS:HG2	1.79	0.64
1:Z:140:GLU:HG3	1:Z:520:LYS:HG2	1.79	0.64
1:Z:315:GLY:H	1:Z:417:LEU:HD23	1.62	0.64
1:b:315:GLY:H	1:b:417:LEU:HD23	1.61	0.64
1:c:315:GLY:H	1:c:417:LEU:HD23	1.61	0.64
1:e:128:GLN:CG	1:f:531:LEU:HD11	2.26	0.64
1:i:140:GLU:HG3	1:i:520:LYS:HG2	1.79	0.64
1:j:44:ASN:HD21	1:j:63:ARG:HH12	1.45	0.64
1:j:109:PRO:HA	1:j:209:GLN:HE21	1.62	0.64
1:w:140:GLU:HG3	1:w:520:LYS:HG2	1.79	0.64
1:x:44:ASN:HD21	1:x:63:ARG:HH12	1.45	0.64
1:x:315:GLY:H	1:x:417:LEU:HD23	1.62	0.64
1:3:371:GLN:NE2	1:4:416:ASN:OD1	2.31	0.64
1:5:416:ASN:OD1	1:6:371:GLN:NE2	2.31	0.64
1:8:140:GLU:HG3	1:8:520:LYS:HG2	1.79	0.64
1:A:44:ASN:HD21	1:A:63:ARG:HH12	1.45	0.64
1:D:416:ASN:OD1	1:N:371:GLN:NE2	2.30	0.64
1:J:109:PRO:HA	1:J:209:GLN:HE21	1.62	0.64
1:K:416:ASN:OD1	1:a:371:GLN:NE2	2.31	0.64
1:N:140:GLU:HG3	1:N:520:LYS:HG2	1.79	0.64
1:W:315:GLY:H	1:W:417:LEU:HD23	1.62	0.64
1:X:368:ARG:NE	1:e:316:ASP:OD2	2.21	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Z:371:GLN:NE2	1:3:416:ASN:OD1	2.30	0.64
1:a:416:ASN:OD1	1:8:371:GLN:NE2	2.30	0.64
1:b:44:ASN:HD21	1:b:63:ARG:HH12	1.45	0.64
1:b:531:LEU:HD11	1:c:128:GLN:CG	2.26	0.64
1:d:315:GLY:H	1:d:417:LEU:HD23	1.62	0.64
1:g:44:ASN:HD21	1:g:63:ARG:HH12	1.45	0.64
1:h:237:GLU:OE2	1:h:239:ARG:NH1	2.31	0.64
1:i:371:GLN:NE2	1:k:416:ASN:OD1	2.31	0.64
1:l:140:GLU:HG3	1:l:520:LYS:HG2	1.79	0.64
1:s:237:GLU:OE2	1:s:239:ARG:NH1	2.31	0.64
1:t:44:ASN:HD21	1:t:63:ARG:HH12	1.45	0.64
1:v:109:PRO:HA	1:v:209:GLN:HE21	1.62	0.64
1:4:109:PRO:HA	1:4:209:GLN:HE21	1.62	0.64
1:A:140:GLU:HG3	1:A:520:LYS:HG2	1.79	0.64
1:C:44:ASN:HD21	1:C:63:ARG:HH12	1.45	0.64
1:E:315:GLY:H	1:E:417:LEU:HD23	1.62	0.64
1:L:109:PRO:HA	1:L:209:GLN:HE21	1.62	0.64
1:P:109:PRO:HA	1:P:209:GLN:HE21	1.62	0.64
1:Q:44:ASN:HD21	1:Q:63:ARG:HH12	1.45	0.64
1:S:237:GLU:OE2	1:S:239:ARG:NH1	2.31	0.64
1:U:237:GLU:OE2	1:U:239:ARG:NH1	2.31	0.64
1:V:109:PRO:HA	1:V:209:GLN:HE21	1.62	0.64
1:p:100:ASP:OD2	1:p:218:ASN:ND2	2.29	0.64
1:p:109:PRO:HA	1:p:209:GLN:HE21	1.62	0.64
1:q:140:GLU:HG3	1:q:520:LYS:HG2	1.79	0.64
1:r:237:GLU:OE2	1:r:239:ARG:NH1	2.31	0.64
1:s:140:GLU:HG3	1:s:520:LYS:HG2	1.79	0.64
1:w:315:GLY:H	1:w:417:LEU:HD23	1.62	0.64
1:2:109:PRO:HA	1:2:209:GLN:HE21	1.62	0.64
1:2:531:LEU:HD11	1:4:128:GLN:CG	2.26	0.64
1:3:315:GLY:H	1:3:417:LEU:HD23	1.62	0.64
1:6:315:GLY:H	1:6:417:LEU:HD23	1.62	0.64
1:7:44:ASN:HD21	1:7:63:ARG:HH12	1.45	0.64
1:A:109:PRO:HA	1:A:209:GLN:HE21	1.62	0.64
1:C:237:GLU:OE2	1:C:239:ARG:NH1	2.31	0.64
1:C:316:ASP:OD2	1:b:368:ARG:NE	2.22	0.64
1:G:44:ASN:HD21	1:G:63:ARG:HH12	1.45	0.64
1:J:237:GLU:OE2	1:J:239:ARG:NH1	2.31	0.64
1:M:237:GLU:OE2	1:M:239:ARG:NH1	2.31	0.64
1:P:315:GLY:H	1:P:417:LEU:HD23	1.61	0.64
1:Q:237:GLU:OE2	1:Q:239:ARG:NH1	2.31	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:R:140:GLU:HG3	1:R:520:LYS:HG2	1.79	0.64
1:T:237:GLU:OE2	1:T:239:ARG:NH1	2.31	0.64
1:V:100:ASP:OD2	1:V:218:ASN:ND2	2.29	0.64
1:V:237:GLU:OE2	1:V:239:ARG:NH1	2.31	0.64
1:Y:44:ASN:HD21	1:Y:63:ARG:HH12	1.45	0.64
1:Z:237:GLU:OE2	1:Z:239:ARG:NH1	2.31	0.64
1:d:416:ASN:OD1	1:l:371:GLN:NE2	2.31	0.64
1:e:315:GLY:H	1:e:417:LEU:HD23	1.62	0.64
1:f:315:GLY:H	1:f:417:LEU:HD23	1.62	0.64
1:m:237:GLU:OE2	1:m:239:ARG:NH1	2.31	0.64
1:v:44:ASN:HD21	1:v:63:ARG:HH12	1.45	0.64
1:v:140:GLU:HG3	1:v:520:LYS:HG2	1.79	0.64
1:x:109:PRO:HA	1:x:209:GLN:HE21	1.62	0.64
1:x:237:GLU:OE2	1:x:239:ARG:NH1	2.31	0.64
1:5:315:GLY:H	1:5:417:LEU:HD23	1.62	0.64
1:D:140:GLU:HG3	1:D:520:LYS:HG2	1.79	0.64
1:D:371:GLN:NE2	1:P:416:ASN:OD1	2.31	0.64
1:H:315:GLY:H	1:H:417:LEU:HD23	1.62	0.64
1:O:371:GLN:NE2	1:n:416:ASN:OD1	2.31	0.64
1:T:371:GLN:NE2	1:l:416:ASN:OD1	2.31	0.64
1:V:140:GLU:HG3	1:V:520:LYS:HG2	1.79	0.64
1:Y:237:GLU:OE2	1:Y:239:ARG:NH1	2.31	0.64
1:a:315:GLY:H	1:a:417:LEU:HD23	1.62	0.64
1:c:316:ASP:OD2	1:o:368:ARG:NE	2.21	0.64
1:d:316:ASP:OD2	1:l:368:ARG:NE	2.22	0.64
1:g:237:GLU:OE2	1:g:239:ARG:NH1	2.31	0.64
1:k:140:GLU:HG3	1:k:520:LYS:HG2	1.79	0.64
1:p:140:GLU:HG3	1:p:520:LYS:HG2	1.79	0.64
1:p:237:GLU:OE2	1:p:239:ARG:NH1	2.31	0.64
1:u:237:GLU:OE2	1:u:239:ARG:NH1	2.31	0.64
1:u:531:LEU:HD11	1:1:128:GLN:CG	2.26	0.64
1:w:371:GLN:NE2	1:y:416:ASN:OD1	2.30	0.64
1:y:315:GLY:H	1:y:417:LEU:HD23	1.62	0.64
1:z:109:PRO:HA	1:z:209:GLN:HE21	1.62	0.64
1:7:237:GLU:OE2	1:7:239:ARG:NH1	2.31	0.64
1:8:237:GLU:OE2	1:8:239:ARG:NH1	2.31	0.64
1:B:128:GLN:CG	1:I:531:LEU:HD11	2.26	0.64
1:B:371:GLN:NE2	1:L:416:ASN:OD1	2.31	0.64
1:C:371:GLN:NE2	1:M:416:ASN:OD1	2.31	0.64
1:E:371:GLN:NE2	1:F:416:ASN:OD1	2.31	0.64
1:I:109:PRO:HA	1:I:209:GLN:HE21	1.62	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:315:GLY:H	1:J:417:LEU:HD23	1.62	0.64
1:O:237:GLU:OE2	1:O:239:ARG:NH1	2.31	0.64
1:O:416:ASN:OD1	1:m:371:GLN:NE2	2.31	0.64
1:R:44:ASN:HD21	1:R:63:ARG:HH12	1.45	0.64
1:b:140:GLU:HG3	1:b:520:LYS:HG2	1.79	0.64
1:j:416:ASN:OD1	1:k:371:GLN:NE2	2.31	0.64
1:l:237:GLU:OE2	1:l:239:ARG:NH1	2.31	0.64
1:q:44:ASN:HD21	1:q:63:ARG:HH12	1.45	0.64
1:t:237:GLU:OE2	1:t:239:ARG:NH1	2.31	0.64
1:2:237:GLU:OE2	1:2:239:ARG:NH1	2.31	0.64
1:3:140:GLU:HG3	1:3:520:LYS:HG2	1.79	0.64
1:C:315:GLY:H	1:C:417:LEU:HD23	1.62	0.64
1:F:315:GLY:H	1:F:417:LEU:HD23	1.62	0.64
1:G:237:GLU:OE2	1:G:239:ARG:NH1	2.31	0.64
1:I:237:GLU:OE2	1:I:239:ARG:NH1	2.31	0.64
1:J:531:LEU:HD11	1:K:128:GLN:CG	2.27	0.64
1:O:315:GLY:H	1:O:417:LEU:HD23	1.62	0.64
1:P:237:GLU:OE2	1:P:239:ARG:NH1	2.31	0.64
1:X:109:PRO:HA	1:X:209:GLN:HE21	1.62	0.64
1:f:140:GLU:HG3	1:f:520:LYS:HG2	1.79	0.64
1:f:368:ARG:NE	1:g:316:ASP:OD2	2.22	0.64
1:g:371:GLN:NE2	1:h:416:ASN:OD1	2.31	0.64
1:h:315:GLY:H	1:h:417:LEU:HD23	1.62	0.64
1:j:237:GLU:OE2	1:j:239:ARG:NH1	2.31	0.64
1:j:315:GLY:H	1:j:417:LEU:HD23	1.61	0.64
1:k:44:ASN:HD21	1:k:63:ARG:HH12	1.45	0.64
1:u:109:PRO:HA	1:u:209:GLN:HE21	1.62	0.64
1:2:140:GLU:HG3	1:2:520:LYS:HG2	1.79	0.64
1:2:315:GLY:H	1:2:417:LEU:HD23	1.61	0.64
1:5:140:GLU:HG3	1:5:520:LYS:HG2	1.79	0.64
1:D:44:ASN:HD21	1:D:63:ARG:HH12	1.45	0.64
1:F:237:GLU:OE2	1:F:239:ARG:NH1	2.31	0.64
1:H:140:GLU:HG3	1:H:520:LYS:HG2	1.79	0.64
1:J:416:ASN:OD1	1:L:371:GLN:NE2	2.30	0.64
1:N:416:ASN:OD1	1:P:371:GLN:NE2	2.31	0.64
1:U:44:ASN:HD21	1:U:63:ARG:HH12	1.45	0.64
1:X:100:ASP:OD2	1:X:218:ASN:ND2	2.29	0.64
1:a:140:GLU:HG3	1:a:520:LYS:HG2	1.79	0.64
1:c:109:PRO:HA	1:c:209:GLN:HE21	1.62	0.64
1:g:315:GLY:H	1:g:417:LEU:HD23	1.62	0.64
1:i:416:ASN:OD1	1:j:371:GLN:NE2	2.31	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:o:109:PRO:HA	1:o:209:GLN:HE21	1.62	0.64
1:s:44:ASN:HD21	1:s:63:ARG:HH12	1.45	0.64
1:z:371:GLN:NE2	1:2:416:ASN:OD1	2.30	0.64
1:5:371:GLN:NE2	1:7:416:ASN:OD1	2.31	0.64
1:H:371:GLN:NE2	1:Y:416:ASN:OD1	2.31	0.63
1:J:140:GLU:HG3	1:J:520:LYS:HG2	1.79	0.63
1:L:237:GLU:OE2	1:L:239:ARG:NH1	2.31	0.63
1:M:315:GLY:H	1:M:417:LEU:HD23	1.62	0.63
1:O:368:ARG:NE	1:n:316:ASP:OD2	2.22	0.63
1:X:237:GLU:OE2	1:X:239:ARG:NH1	2.31	0.63
1:Y:315:GLY:H	1:Y:417:LEU:HD23	1.62	0.63
1:d:237:GLU:OE2	1:d:239:ARG:NH1	2.31	0.63
1:n:44:ASN:HD21	1:n:63:ARG:HH12	1.45	0.63
1:o:100:ASP:OD2	1:o:218:ASN:ND2	2.29	0.63
1:o:237:GLU:OE2	1:o:239:ARG:NH1	2.31	0.63
1:t:109:PRO:HA	1:t:209:GLN:HE21	1.62	0.63
1:y:237:GLU:OE2	1:y:239:ARG:NH1	2.31	0.63
1:6:100:ASP:OD2	1:6:218:ASN:ND2	2.29	0.63
1:6:237:GLU:OE2	1:6:239:ARG:NH1	2.31	0.63
1:I:315:GLY:H	1:I:417:LEU:HD23	1.62	0.63
1:R:237:GLU:OE2	1:R:239:ARG:NH1	2.31	0.63
1:W:100:ASP:OD2	1:W:218:ASN:ND2	2.29	0.63
1:c:237:GLU:OE2	1:c:239:ARG:NH1	2.31	0.63
1:e:109:PRO:HA	1:e:209:GLN:HE21	1.62	0.63
1:j:100:ASP:OD2	1:j:218:ASN:ND2	2.29	0.63
1:l:315:GLY:H	1:l:417:LEU:HD23	1.62	0.63
1:m:140:GLU:HG3	1:m:520:LYS:HG2	1.79	0.63
1:n:237:GLU:OE2	1:n:239:ARG:NH1	2.31	0.63
1:w:416:ASN:OD1	1:x:371:GLN:NE2	2.31	0.63
1:4:237:GLU:OE2	1:4:239:ARG:NH1	2.31	0.63
1:C:140:GLU:HG3	1:C:520:LYS:HG2	1.79	0.63
1:E:237:GLU:OE2	1:E:239:ARG:NH1	2.31	0.63
1:H:237:GLU:OE2	1:H:239:ARG:NH1	2.31	0.63
1:K:237:GLU:OE2	1:K:239:ARG:NH1	2.31	0.63
1:P:100:ASP:OD2	1:P:218:ASN:ND2	2.29	0.63
1:R:100:ASP:OD2	1:R:218:ASN:ND2	2.29	0.63
1:T:140:GLU:HG3	1:T:520:LYS:HG2	1.79	0.63
1:W:237:GLU:OE2	1:W:239:ARG:NH1	2.31	0.63
1:c:140:GLU:HG3	1:c:520:LYS:HG2	1.79	0.63
1:d:44:ASN:HD21	1:d:63:ARG:HH12	1.45	0.63
1:e:237:GLU:OE2	1:e:239:ARG:NH1	2.31	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:g:140:GLU:HG3	1:g:520:LYS:HG2	1.79	0.63
1:i:237:GLU:OE2	1:i:239:ARG:NH1	2.31	0.63
1:m:416:ASN:OD1	1:n:371:GLN:NE2	2.31	0.63
1:q:237:GLU:OE2	1:q:239:ARG:NH1	2.31	0.63
1:z:237:GLU:OE2	1:z:239:ARG:NH1	2.31	0.63
1:E:416:ASN:OD1	1:Q:371:GLN:NE2	2.31	0.63
1:G:109:PRO:HA	1:G:209:GLN:HE21	1.62	0.63
1:N:237:GLU:OE2	1:N:239:ARG:NH1	2.31	0.63
1:P:140:GLU:HG3	1:P:520:LYS:HG2	1.79	0.63
1:T:416:ASN:OD1	1:d:371:GLN:NE2	2.31	0.63
1:a:237:GLU:OE2	1:a:239:ARG:NH1	2.31	0.63
1:g:109:PRO:HA	1:g:209:GLN:HE21	1.62	0.63
1:i:109:PRO:HA	1:i:209:GLN:HE21	1.62	0.63
1:u:315:GLY:H	1:u:417:LEU:HD23	1.62	0.63
1:w:237:GLU:OE2	1:w:239:ARG:NH1	2.31	0.63
1:3:237:GLU:OE2	1:3:239:ARG:NH1	2.31	0.63
1:C:109:PRO:HA	1:C:209:GLN:HE21	1.62	0.63
1:L:44:ASN:HD21	1:L:63:ARG:HH12	1.45	0.63
1:N:109:PRO:HA	1:N:209:GLN:HE21	1.62	0.63
1:S:140:GLU:HG3	1:S:520:LYS:HG2	1.79	0.63
1:b:237:GLU:OE2	1:b:239:ARG:NH1	2.31	0.63
1:e:140:GLU:HG3	1:e:520:LYS:HG2	1.79	0.63
1:j:140:GLU:HG3	1:j:520:LYS:HG2	1.79	0.63
1:m:315:GLY:H	1:m:417:LEU:HD23	1.62	0.63
1:q:100:ASP:OD2	1:q:218:ASN:ND2	2.29	0.63
1:7:315:GLY:H	1:7:417:LEU:HD23	1.62	0.63
1:A:371:GLN:NE2	1:I:416:ASN:OD1	2.30	0.63
1:D:237:GLU:OE2	1:D:239:ARG:NH1	2.31	0.63
1:G:416:ASN:OD1	1:I:371:GLN:NE2	2.31	0.63
1:N:44:ASN:HD21	1:N:63:ARG:HH12	1.45	0.63
1:T:315:GLY:H	1:T:417:LEU:HD23	1.62	0.63
1:f:237:GLU:OE2	1:f:239:ARG:NH1	2.31	0.63
1:i:44:ASN:HD21	1:i:63:ARG:HH12	1.45	0.63
1:k:237:GLU:OE2	1:k:239:ARG:NH1	2.31	0.63
1:n:100:ASP:OD2	1:n:218:ASN:ND2	2.29	0.63
1:q:371:GLN:NE2	1:s:416:ASN:OD1	2.31	0.63
1:r:140:GLU:HG3	1:r:520:LYS:HG2	1.79	0.63
1:z:44:ASN:HD21	1:z:63:ARG:HH12	1.45	0.63
1:5:237:GLU:OE2	1:5:239:ARG:NH1	2.31	0.63
1:B:237:GLU:OE2	1:B:239:ARG:NH1	2.31	0.63
1:R:371:GLN:NE2	1:U:416:ASN:OD1	2.31	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:t:416:ASN:OD1	1:u:371:GLN:NE2	2.31	0.63
1:7:109:PRO:HA	1:7:209:GLN:HE21	1.62	0.63
1:A:237:GLU:OE2	1:A:239:ARG:NH1	2.31	0.63
1:C:416:ASN:OD1	1:b:371:GLN:NE2	2.31	0.63
1:V:371:GLN:NE2	1:X:416:ASN:OD1	2.31	0.63
1:Y:109:PRO:HA	1:Y:209:GLN:HE21	1.62	0.63
1:Z:416:ASN:OD1	1:4:371:GLN:NE2	2.31	0.63
1:k:109:PRO:HA	1:k:209:GLN:HE21	1.62	0.63
1:1:237:GLU:OE2	1:1:239:ARG:NH1	2.31	0.63
1:8:44:ASN:HD21	1:8:63:ARG:HH12	1.45	0.63
1:F:140:GLU:HG3	1:F:520:LYS:HG2	1.79	0.63
1:Q:140:GLU:HG3	1:Q:520:LYS:HG2	1.79	0.63
1:o:416:ASN:OD1	1:p:371:GLN:NE2	2.31	0.63
1:u:416:ASN:OD1	1:v:371:GLN:NE2	2.30	0.63
1:x:140:GLU:HG3	1:x:520:LYS:HG2	1.79	0.63
1:D:109:PRO:HA	1:D:209:GLN:HE21	1.62	0.62
1:K:371:GLN:NE2	1:8:416:ASN:OD1	2.31	0.62
1:M:140:GLU:HG3	1:M:520:LYS:HG2	1.79	0.62
1:W:44:ASN:HD21	1:W:63:ARG:HH12	1.45	0.62
1:Z:44:ASN:HD21	1:Z:63:ARG:HH12	1.45	0.62
1:v:237:GLU:OE2	1:v:239:ARG:NH1	2.31	0.62
1:y:140:GLU:HG3	1:y:520:LYS:HG2	1.79	0.62
1:c:44:ASN:HD21	1:c:63:ARG:HH12	1.45	0.62
1:h:140:GLU:HG3	1:h:520:LYS:HG2	1.79	0.62
1:g:531:LEU:CD1	1:z:128:GLN:HB2	2.30	0.62
1:6:44:ASN:HD21	1:6:63:ARG:HH12	1.45	0.62
1:e:44:ASN:HD21	1:e:63:ARG:HH12	1.45	0.62
1:f:371:GLN:NE2	1:g:416:ASN:OD1	2.31	0.62
1:5:44:ASN:HD21	1:5:63:ARG:HH12	1.45	0.62
1:H:44:ASN:HD21	1:H:63:ARG:HH12	1.45	0.62
1:u:44:ASN:HD21	1:u:63:ARG:HH12	1.45	0.62
1:w:100:ASP:OD2	1:w:218:ASN:ND2	2.29	0.62
1:E:44:ASN:HD21	1:E:63:ARG:HH12	1.45	0.62
1:E:531:LEU:CD1	1:P:128:GLN:HB2	2.30	0.62
1:H:100:ASP:OD2	1:H:218:ASN:ND2	2.29	0.62
1:I:44:ASN:HD21	1:I:63:ARG:HH12	1.45	0.62
1:I:100:ASP:OD2	1:I:218:ASN:ND2	2.29	0.62
1:O:44:ASN:HD21	1:O:63:ARG:HH12	1.45	0.62
1:l:44:ASN:HD21	1:l:63:ARG:HH12	1.45	0.62
1:E:100:ASP:OD2	1:E:218:ASN:ND2	2.29	0.62
1:V:416:ASN:OD1	1:e:371:GLN:NE2	2.31	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:c:371:GLN:NE2	1:p:416:ASN:OD1	2.31	0.62
1:m:531:LEU:CD1	1:r:128:GLN:HB2	2.30	0.62
1:w:44:ASN:HD21	1:w:63:ARG:HH12	1.45	0.62
1:S:128:GLN:HB2	1:T:531:LEU:CD1	2.30	0.62
1:W:128:GLN:HB2	1:X:531:LEU:CD1	2.30	0.62
1:j:128:GLN:HB2	1:w:531:LEU:CD1	2.30	0.62
1:t:128:GLN:HB2	1:5:531:LEU:CD1	2.30	0.62
1:5:100:ASP:OD2	1:5:218:ASN:ND2	2.29	0.62
1:l:100:ASP:OD2	1:l:218:ASN:ND2	2.29	0.62
1:o:128:GLN:HB2	1:6:531:LEU:CD1	2.30	0.62
1:o:531:LEU:CD1	1:6:128:GLN:HB2	2.30	0.62
1:u:100:ASP:OD2	1:u:218:ASN:ND2	2.29	0.62
1:3:44:ASN:HD21	1:3:63:ARG:HH12	1.45	0.62
1:7:531:LEU:CD1	1:8:128:GLN:HB2	2.30	0.62
1:C:128:GLN:HB2	1:L:531:LEU:CD1	2.30	0.61
1:C:531:LEU:CD1	1:L:128:GLN:HB2	2.30	0.61
1:G:531:LEU:CD1	1:H:128:GLN:HB2	2.30	0.61
1:N:531:LEU:CD1	1:O:128:GLN:HB2	2.30	0.61
1:Q:531:LEU:CD1	1:R:128:GLN:HB2	2.30	0.61
1:Y:531:LEU:CD1	1:Z:128:GLN:HB2	2.30	0.61
1:i:531:LEU:CD1	1:l:128:GLN:HB2	2.30	0.61
1:t:531:LEU:CD1	1:5:128:GLN:HB2	2.30	0.61
1:G:128:GLN:HB2	1:H:531:LEU:CD1	2.30	0.61
1:W:531:LEU:CD1	1:X:128:GLN:HB2	2.31	0.61
1:a:44:ASN:HD21	1:a:63:ARG:HH12	1.45	0.61
1:h:531:LEU:CD1	1:k:128:GLN:HB2	2.30	0.61
1:q:128:GLN:HB2	1:x:531:LEU:CD1	2.30	0.61
1:A:128:GLN:HB2	1:F:531:LEU:CD1	2.30	0.61
1:D:128:GLN:HB2	1:M:531:LEU:CD1	2.30	0.61
1:d:128:GLN:HB2	1:n:531:LEU:CD1	2.30	0.61
1:d:531:LEU:CD1	1:n:128:GLN:HB2	2.30	0.61
1:e:128:GLN:HB2	1:f:531:LEU:CD1	2.31	0.61
1:A:531:LEU:CD1	1:F:128:GLN:HB2	2.31	0.61
1:O:100:ASP:OD2	1:O:218:ASN:ND2	2.29	0.61
1:b:531:LEU:CD1	1:c:128:GLN:HB2	2.31	0.61
1:g:128:GLN:HB2	1:z:531:LEU:CD1	2.31	0.61
1:p:128:GLN:HB2	1:s:531:LEU:CD1	2.30	0.61
1:v:128:GLN:HB2	1:y:531:LEU:CD1	2.31	0.61
1:v:531:LEU:CD1	1:y:128:GLN:HB2	2.31	0.61
1:S:100:ASP:OD2	1:S:218:ASN:ND2	2.29	0.61
1:m:128:GLN:HB2	1:r:531:LEU:CD1	2.31	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:n:319:ASP:HB3	1:n:320:PRO:HD3	1.83	0.61
1:y:319:ASP:HB3	1:y:320:PRO:HD3	1.83	0.61
1:F:319:ASP:HB3	1:F:320:PRO:HD3	1.83	0.61
1:O:319:ASP:HB3	1:O:320:PRO:HD3	1.83	0.61
1:P:319:ASP:HB3	1:P:320:PRO:HD3	1.83	0.61
1:S:531:LEU:CD1	1:T:128:GLN:HB2	2.31	0.61
1:U:531:LEU:CD1	1:V:128:GLN:HB2	2.30	0.61
1:d:319:ASP:HB3	1:d:320:PRO:HD3	1.83	0.61
1:e:531:LEU:CD1	1:f:128:GLN:HB2	2.30	0.61
1:j:319:ASP:HB3	1:j:320:PRO:HD3	1.83	0.61
1:k:319:ASP:HB3	1:k:320:PRO:HD3	1.83	0.61
1:l:319:ASP:HB3	1:l:320:PRO:HD3	1.83	0.61
1:r:100:ASP:OD2	1:r:218:ASN:ND2	2.29	0.61
1:2:531:LEU:CD1	1:4:128:GLN:HB2	2.30	0.61
1:D:319:ASP:HB3	1:D:320:PRO:HD3	1.83	0.61
1:L:319:ASP:HB3	1:L:320:PRO:HD3	1.83	0.61
1:a:128:GLN:HB2	1:3:531:LEU:CD1	2.30	0.61
1:b:128:GLN:HB2	1:c:531:LEU:CD1	2.31	0.61
1:u:128:GLN:HB2	1:1:531:LEU:CD1	2.30	0.61
1:D:531:LEU:CD1	1:M:128:GLN:HB2	2.30	0.61
1:U:319:ASP:HB3	1:U:320:PRO:HD3	1.83	0.61
1:a:531:LEU:CD1	1:3:128:GLN:HB2	2.30	0.61
1:h:128:GLN:HB2	1:k:531:LEU:CD1	2.30	0.61
1:s:319:ASP:HB3	1:s:320:PRO:HD3	1.83	0.61
1:z:319:ASP:HB3	1:z:320:PRO:HD3	1.83	0.61
1:2:128:GLN:HB2	1:4:531:LEU:CD1	2.30	0.61
1:B:531:LEU:CD1	1:I:128:GLN:HB2	2.31	0.61
1:G:319:ASP:HB3	1:G:320:PRO:HD3	1.83	0.61
1:N:128:GLN:HB2	1:O:531:LEU:CD1	2.30	0.61
1:Y:128:GLN:HB2	1:Z:531:LEU:CD1	2.30	0.61
1:c:319:ASP:HB3	1:c:320:PRO:HD3	1.83	0.61
1:j:531:LEU:CD1	1:w:128:GLN:HB2	2.30	0.61
1:p:531:LEU:CD1	1:s:128:GLN:HB2	2.30	0.61
1:7:128:GLN:HB2	1:8:531:LEU:CD1	2.30	0.61
1:I:319:ASP:HB3	1:I:320:PRO:HD3	1.83	0.61
1:J:531:LEU:CD1	1:K:128:GLN:HB2	2.31	0.61
1:U:128:GLN:HB2	1:V:531:LEU:CD1	2.30	0.61
1:W:319:ASP:HB3	1:W:320:PRO:HD3	1.83	0.61
1:c:108:THR:HG22	1:c:110:TRP:H	1.66	0.61
1:e:108:THR:HG22	1:e:110:TRP:H	1.66	0.61
1:e:319:ASP:HB3	1:e:320:PRO:HD3	1.83	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:i:128:GLN:HB2	1:l:531:LEU:CD1	2.30	0.61
1:t:319:ASP:HB3	1:t:320:PRO:HD3	1.83	0.61
1:6:319:ASP:HB3	1:6:320:PRO:HD3	1.83	0.61
1:E:128:GLN:HB2	1:P:531:LEU:CD1	2.30	0.60
1:I:108:THR:HG22	1:I:110:TRP:H	1.66	0.60
1:J:128:GLN:HB2	1:K:531:LEU:CD1	2.30	0.60
1:L:108:THR:HG22	1:L:110:TRP:H	1.66	0.60
1:S:319:ASP:HB3	1:S:320:PRO:HD3	1.83	0.60
1:f:319:ASP:HB3	1:f:320:PRO:HD3	1.83	0.60
1:q:531:LEU:CD1	1:x:128:GLN:HB2	2.31	0.60
1:b:319:ASP:HB3	1:b:320:PRO:HD3	1.83	0.60
1:q:319:ASP:HB3	1:q:320:PRO:HD3	1.83	0.60
1:r:108:THR:HG22	1:r:110:TRP:H	1.66	0.60
1:r:319:ASP:HB3	1:r:320:PRO:HD3	1.83	0.60
1:u:108:THR:HG22	1:u:110:TRP:H	1.66	0.60
1:u:319:ASP:HB3	1:u:320:PRO:HD3	1.83	0.60
1:u:531:LEU:CD1	1:l:128:GLN:HB2	2.30	0.60
1:z:108:THR:HG22	1:z:110:TRP:H	1.66	0.60
1:l:108:THR:HG22	1:l:110:TRP:H	1.66	0.60
1:A:319:ASP:HB3	1:A:320:PRO:HD3	1.83	0.60
1:B:108:THR:HG22	1:B:110:TRP:H	1.66	0.60
1:B:128:GLN:HB2	1:I:531:LEU:CD1	2.30	0.60
1:O:108:THR:HG22	1:O:110:TRP:H	1.66	0.60
1:Q:128:GLN:HB2	1:R:531:LEU:CD1	2.31	0.60
1:R:319:ASP:HB3	1:R:320:PRO:HD3	1.83	0.60
1:W:108:THR:HG22	1:W:110:TRP:H	1.66	0.60
1:g:531:LEU:HD13	1:z:128:GLN:HB2	1.83	0.60
1:i:319:ASP:HB3	1:i:320:PRO:HD3	1.83	0.60
1:l:108:THR:HG22	1:l:110:TRP:H	1.66	0.60
1:v:319:ASP:HB3	1:v:320:PRO:HD3	1.83	0.60
1:6:108:THR:HG22	1:6:110:TRP:H	1.66	0.60
1:7:319:ASP:HB3	1:7:320:PRO:HD3	1.83	0.60
1:C:319:ASP:HB3	1:C:320:PRO:HD3	1.83	0.60
1:N:319:ASP:HB3	1:N:320:PRO:HD3	1.83	0.60
1:S:108:THR:HG22	1:S:110:TRP:H	1.67	0.60
1:Y:319:ASP:HB3	1:Y:320:PRO:HD3	1.83	0.60
1:a:319:ASP:HB3	1:a:320:PRO:HD3	1.83	0.60
1:F:108:THR:HG22	1:F:110:TRP:H	1.66	0.60
1:R:108:THR:HG22	1:R:110:TRP:H	1.66	0.60
1:a:108:THR:HG22	1:a:110:TRP:H	1.66	0.60
1:g:319:ASP:HB3	1:g:320:PRO:HD3	1.83	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:q:108:THR:HG22	1:q:110:TRP:H	1.66	0.60
1:y:108:THR:HG22	1:y:110:TRP:H	1.66	0.60
1:3:319:ASP:HB3	1:3:320:PRO:HD3	1.83	0.60
1:E:108:THR:HG22	1:E:110:TRP:H	1.66	0.60
1:E:319:ASP:HB3	1:E:320:PRO:HD3	1.83	0.60
1:P:108:THR:HG22	1:P:110:TRP:H	1.66	0.60
1:Q:108:THR:HG22	1:Q:110:TRP:H	1.66	0.60
1:Q:319:ASP:HB3	1:Q:320:PRO:HD3	1.83	0.60
1:Z:108:THR:HG22	1:Z:110:TRP:H	1.66	0.60
1:j:108:THR:HG22	1:j:110:TRP:H	1.66	0.60
1:3:108:THR:HG22	1:3:110:TRP:H	1.66	0.60
1:B:319:ASP:HB3	1:B:320:PRO:HD3	1.83	0.60
1:Z:319:ASP:HB3	1:Z:320:PRO:HD3	1.83	0.60
1:b:108:THR:HG22	1:b:110:TRP:H	1.66	0.60
1:o:319:ASP:HB3	1:o:320:PRO:HD3	1.83	0.60
1:w:108:THR:HG22	1:w:110:TRP:H	1.66	0.60
1:x:108:THR:HG22	1:x:110:TRP:H	1.66	0.60
1:1:319:ASP:HB3	1:1:320:PRO:HD3	1.83	0.60
1:4:108:THR:HG22	1:4:110:TRP:H	1.66	0.60
1:8:108:THR:HG22	1:8:110:TRP:H	1.67	0.60
1:8:319:ASP:HB3	1:8:320:PRO:HD3	1.83	0.60
1:H:319:ASP:HB3	1:H:320:PRO:HD3	1.83	0.60
1:U:108:THR:HG22	1:U:110:TRP:H	1.67	0.60
1:X:319:ASP:HB3	1:X:320:PRO:HD3	1.83	0.60
1:w:319:ASP:HB3	1:w:320:PRO:HD3	1.83	0.60
1:5:319:ASP:HB3	1:5:320:PRO:HD3	1.83	0.60
1:K:108:THR:HG22	1:K:110:TRP:H	1.66	0.60
1:N:108:THR:HG22	1:N:110:TRP:H	1.66	0.60
1:V:108:THR:HG22	1:V:110:TRP:H	1.66	0.60
1:f:108:THR:HG22	1:f:110:TRP:H	1.66	0.60
1:p:108:THR:HG22	1:p:110:TRP:H	1.66	0.60
1:x:319:ASP:HB3	1:x:320:PRO:HD3	1.83	0.60
1:5:108:THR:HG22	1:5:110:TRP:H	1.66	0.60
1:H:108:THR:HG22	1:H:110:TRP:H	1.66	0.60
1:J:319:ASP:HB3	1:J:320:PRO:HD3	1.83	0.60
1:i:108:THR:HG22	1:i:110:TRP:H	1.66	0.60
1:s:108:THR:HG22	1:s:110:TRP:H	1.67	0.60
1:2:108:THR:HG22	1:2:110:TRP:H	1.67	0.60
1:2:319:ASP:HB3	1:2:320:PRO:HD3	1.83	0.60
1:D:108:THR:HG22	1:D:110:TRP:H	1.66	0.59
1:E:531:LEU:HD13	1:P:128:GLN:HB2	1.84	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:108:THR:HG22	1:J:110:TRP:H	1.67	0.59
1:m:319:ASP:HB3	1:m:320:PRO:HD3	1.83	0.59
1:h:319:ASP:HB3	1:h:320:PRO:HD3	1.83	0.59
1:k:108:THR:HG22	1:k:110:TRP:H	1.66	0.59
1:M:319:ASP:HB3	1:M:320:PRO:HD3	1.83	0.59
1:T:319:ASP:HB3	1:T:320:PRO:HD3	1.83	0.59
1:f:537:ARG:HD2	1:f:546:PHE:CE2	2.38	0.59
1:m:108:THR:HG22	1:m:110:TRP:H	1.66	0.59
1:t:128:GLN:HB2	1:5:531:LEU:HD13	1.85	0.59
1:G:537:ARG:HD2	1:G:546:PHE:CE2	2.38	0.59
1:J:537:ARG:HD2	1:J:546:PHE:CE2	2.38	0.59
1:S:537:ARG:HD2	1:S:546:PHE:CE2	2.38	0.59
1:Y:108:THR:HG22	1:Y:110:TRP:H	1.66	0.59
1:a:128:GLN:HB2	1:3:531:LEU:HD13	1.85	0.59
1:b:537:ARG:HD2	1:b:546:PHE:CE2	2.38	0.59
1:r:537:ARG:HD2	1:r:546:PHE:CE2	2.38	0.59
1:t:537:ARG:HD2	1:t:546:PHE:CE2	2.38	0.59
1:C:108:THR:HG22	1:C:110:TRP:H	1.66	0.59
1:G:128:GLN:HB2	1:H:531:LEU:HD13	1.85	0.59
1:T:108:THR:HG22	1:T:110:TRP:H	1.66	0.59
1:V:537:ARG:HD2	1:V:546:PHE:CE2	2.38	0.59
1:Y:537:ARG:HD2	1:Y:546:PHE:CE2	2.38	0.59
1:a:531:LEU:HD13	1:3:128:GLN:HB2	1.85	0.59
1:e:537:ARG:HD2	1:e:546:PHE:CE2	2.38	0.59
1:j:128:GLN:HB2	1:w:531:LEU:HD13	1.85	0.59
1:p:537:ARG:HD2	1:p:546:PHE:CE2	2.38	0.59
1:2:537:ARG:HD2	1:2:546:PHE:CE2	2.38	0.59
1:7:537:ARG:HD2	1:7:546:PHE:CE2	2.38	0.59
1:A:537:ARG:HD2	1:A:546:PHE:CE2	2.38	0.59
1:C:531:LEU:HD13	1:L:128:GLN:HB2	1.85	0.59
1:F:537:ARG:HD2	1:F:546:PHE:CE2	2.38	0.59
1:g:108:THR:HG22	1:g:110:TRP:H	1.66	0.59
1:v:108:THR:HG22	1:v:110:TRP:H	1.66	0.59
1:v:537:ARG:HD2	1:v:546:PHE:CE2	2.38	0.59
1:7:108:THR:HG22	1:7:110:TRP:H	1.66	0.59
1:A:108:THR:HG22	1:A:110:TRP:H	1.66	0.59
1:D:531:LEU:HD13	1:M:128:GLN:HB2	1.85	0.59
1:D:537:ARG:HD2	1:D:546:PHE:CE2	2.38	0.59
1:K:537:ARG:HD2	1:K:546:PHE:CE2	2.38	0.59
1:O:537:ARG:HD2	1:O:546:PHE:CE2	2.38	0.59
1:U:537:ARG:HD2	1:U:546:PHE:CE2	2.38	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Z:537:ARG:HD2	1:Z:546:PHE:CE2	2.38	0.59
1:c:537:ARG:HD2	1:c:546:PHE:CE2	2.38	0.59
1:d:128:GLN:HB2	1:n:531:LEU:HD13	1.85	0.59
1:d:531:LEU:HD13	1:n:128:GLN:HB2	1.85	0.59
1:h:128:GLN:HB2	1:k:531:LEU:HD13	1.85	0.59
1:s:537:ARG:HD2	1:s:546:PHE:CE2	2.38	0.59
1:y:537:ARG:HD2	1:y:546:PHE:CE2	2.38	0.59
1:4:319:ASP:HB3	1:4:320:PRO:HD3	1.83	0.59
1:4:537:ARG:HD2	1:4:546:PHE:CE2	2.38	0.59
1:8:537:ARG:HD2	1:8:546:PHE:CE2	2.38	0.59
1:V:319:ASP:HB3	1:V:320:PRO:HD3	1.83	0.59
1:l:537:ARG:HD2	1:l:546:PHE:CE2	2.38	0.59
1:q:128:GLN:HB2	1:x:531:LEU:HD13	1.85	0.59
1:x:537:ARG:HD2	1:x:546:PHE:CE2	2.38	0.59
1:C:537:ARG:HD2	1:C:546:PHE:CE2	2.38	0.59
1:G:531:LEU:HD13	1:H:128:GLN:HB2	1.85	0.59
1:M:108:THR:HG22	1:M:110:TRP:H	1.66	0.59
1:Q:531:LEU:HD13	1:R:128:GLN:HB2	1.85	0.59
1:Q:537:ARG:HD2	1:Q:546:PHE:CE2	2.38	0.59
1:g:537:ARG:HD2	1:g:546:PHE:CE2	2.38	0.59
1:h:108:THR:HG22	1:h:110:TRP:H	1.66	0.59
1:k:537:ARG:HD2	1:k:546:PHE:CE2	2.38	0.59
1:p:319:ASP:HB3	1:p:320:PRO:HD3	1.83	0.59
1:E:128:GLN:HB2	1:P:531:LEU:HD13	1.85	0.59
1:H:537:ARG:HD2	1:H:546:PHE:CE2	2.38	0.59
1:W:537:ARG:HD2	1:W:546:PHE:CE2	2.38	0.59
1:u:537:ARG:HD2	1:u:546:PHE:CE2	2.38	0.59
1:A:128:GLN:HB2	1:F:531:LEU:HD13	1.85	0.58
1:D:128:GLN:HB2	1:M:531:LEU:HD13	1.85	0.58
1:G:108:THR:HG22	1:G:110:TRP:H	1.67	0.58
1:K:319:ASP:HB3	1:K:320:PRO:HD3	1.83	0.58
1:X:108:THR:HG22	1:X:110:TRP:H	1.66	0.58
1:j:531:LEU:HD13	1:w:128:GLN:HB2	1.85	0.58
1:j:537:ARG:HD2	1:j:546:PHE:CE2	2.38	0.58
1:n:537:ARG:HD2	1:n:546:PHE:CE2	2.38	0.58
1:o:108:THR:HG22	1:o:110:TRP:H	1.66	0.58
1:t:108:THR:HG22	1:t:110:TRP:H	1.66	0.58
1:t:531:LEU:HD13	1:5:128:GLN:HB2	1.85	0.58
1:v:128:GLN:HB2	1:y:531:LEU:HD13	1.85	0.58
1:I:537:ARG:HD2	1:I:546:PHE:CE2	2.38	0.58
1:L:537:ARG:HD2	1:L:546:PHE:CE2	2.38	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:d:537:ARG:HD2	1:d:546:PHE:CE2	2.38	0.58
1:n:108:THR:HG22	1:n:110:TRP:H	1.66	0.58
1:o:128:GLN:HB2	1:6:531:LEU:HD13	1.85	0.58
1:q:537:ARG:HD2	1:q:546:PHE:CE2	2.38	0.58
1:5:537:ARG:HD2	1:5:546:PHE:CE2	2.38	0.58
1:A:531:LEU:HD13	1:F:128:GLN:HB2	1.85	0.58
1:P:537:ARG:HD2	1:P:546:PHE:CE2	2.38	0.58
1:R:537:ARG:HD2	1:R:546:PHE:CE2	2.38	0.58
1:T:537:ARG:HD2	1:T:546:PHE:CE2	2.38	0.58
1:U:546:PHE:HA	1:U:555:GLU:O	2.04	0.58
1:W:531:LEU:HD13	1:X:128:GLN:HB2	1.85	0.58
1:b:546:PHE:HA	1:b:555:GLU:O	2.04	0.58
1:d:108:THR:HG22	1:d:110:TRP:H	1.66	0.58
1:f:546:PHE:HA	1:f:555:GLU:O	2.04	0.58
1:h:531:LEU:HD13	1:k:128:GLN:HB2	1.85	0.58
1:m:537:ARG:HD2	1:m:546:PHE:CE2	2.38	0.58
1:p:128:GLN:HB2	1:s:531:LEU:HD13	1.85	0.58
1:s:546:PHE:HA	1:s:555:GLU:O	2.04	0.58
1:v:531:LEU:HD13	1:y:128:GLN:HB2	1.85	0.58
1:z:537:ARG:HD2	1:z:546:PHE:CE2	2.38	0.58
1:1:546:PHE:HA	1:1:555:GLU:O	2.04	0.58
1:5:546:PHE:HA	1:5:555:GLU:O	2.04	0.58
1:6:537:ARG:HD2	1:6:546:PHE:CE2	2.38	0.58
1:B:546:PHE:HA	1:B:555:GLU:O	2.04	0.58
1:C:109:PRO:HB2	1:C:486:LYS:HD2	1.86	0.58
1:H:546:PHE:HA	1:H:555:GLU:O	2.04	0.58
1:K:546:PHE:HA	1:K:555:GLU:O	2.04	0.58
1:N:546:PHE:HA	1:N:555:GLU:O	2.04	0.58
1:W:128:GLN:HB2	1:X:531:LEU:HD13	1.84	0.58
1:d:546:PHE:HA	1:d:555:GLU:O	2.04	0.58
1:g:109:PRO:HB2	1:g:486:LYS:HD2	1.86	0.58
1:7:276:GLN:HE21	1:7:562:ARG:HH12	1.52	0.58
1:B:537:ARG:HD2	1:B:546:PHE:CE2	2.38	0.58
1:C:546:PHE:HA	1:C:555:GLU:O	2.04	0.58
1:D:546:PHE:HA	1:D:555:GLU:O	2.04	0.58
1:F:276:GLN:HE21	1:F:562:ARG:HH12	1.52	0.58
1:S:531:LEU:HD13	1:T:128:GLN:HB2	1.85	0.58
1:Y:276:GLN:HE21	1:Y:562:ARG:HH12	1.52	0.58
1:Z:546:PHE:HA	1:Z:555:GLU:O	2.04	0.58
1:g:546:PHE:HA	1:g:555:GLU:O	2.04	0.58
1:h:537:ARG:HD2	1:h:546:PHE:CE2	2.38	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:i:546:PHE:HA	1:i:555:GLU:O	2.04	0.58
1:k:546:PHE:HA	1:k:555:GLU:O	2.04	0.58
1:m:128:GLN:HB2	1:r:531:LEU:HD13	1.85	0.58
1:y:276:GLN:HE21	1:y:562:ARG:HH12	1.52	0.58
1:z:546:PHE:HA	1:z:555:GLU:O	2.04	0.58
1:4:546:PHE:HA	1:4:555:GLU:O	2.04	0.58
1:C:276:GLN:HE21	1:C:562:ARG:HH12	1.52	0.58
1:E:276:GLN:HE21	1:E:562:ARG:HH12	1.52	0.58
1:F:109:PRO:HB2	1:F:486:LYS:HD2	1.86	0.58
1:L:546:PHE:HA	1:L:555:GLU:O	2.04	0.58
1:M:537:ARG:HD2	1:M:546:PHE:CE2	2.38	0.58
1:Q:546:PHE:HA	1:Q:555:GLU:O	2.04	0.58
1:U:128:GLN:HB2	1:V:531:LEU:HD13	1.85	0.58
1:U:276:GLN:HE21	1:U:562:ARG:HH12	1.52	0.58
1:U:531:LEU:HD13	1:V:128:GLN:HB2	1.85	0.58
1:Y:109:PRO:HB2	1:Y:486:LYS:HD2	1.86	0.58
1:a:537:ARG:HD2	1:a:546:PHE:CE2	2.38	0.58
1:b:531:LEU:HD13	1:c:128:GLN:HB2	1.85	0.58
1:g:276:GLN:HE21	1:g:562:ARG:HH12	1.52	0.58
1:n:546:PHE:HA	1:n:555:GLU:O	2.04	0.58
1:o:537:ARG:HD2	1:o:546:PHE:CE2	2.38	0.58
1:v:276:GLN:HE21	1:v:562:ARG:HH12	1.52	0.58
1:v:546:PHE:HA	1:v:555:GLU:O	2.04	0.58
1:w:276:GLN:HE21	1:w:562:ARG:HH12	1.52	0.58
1:x:546:PHE:HA	1:x:555:GLU:O	2.04	0.58
1:y:109:PRO:HB2	1:y:486:LYS:HD2	1.86	0.58
1:3:537:ARG:HD2	1:3:546:PHE:CE2	2.38	0.58
1:8:546:PHE:HA	1:8:555:GLU:O	2.04	0.58
1:A:276:GLN:HE21	1:A:562:ARG:HH12	1.52	0.58
1:A:546:PHE:HA	1:A:555:GLU:O	2.04	0.58
1:G:276:GLN:HE21	1:G:562:ARG:HH12	1.52	0.58
1:M:109:PRO:HB2	1:M:486:LYS:HD2	1.86	0.58
1:O:546:PHE:HA	1:O:555:GLU:O	2.04	0.58
1:X:109:PRO:HB2	1:X:486:LYS:HD2	1.86	0.58
1:h:109:PRO:HB2	1:h:486:LYS:HD2	1.86	0.58
1:l:546:PHE:HA	1:l:555:GLU:O	2.04	0.58
1:s:276:GLN:HE21	1:s:562:ARG:HH12	1.52	0.58
1:1:537:ARG:HD2	1:1:546:PHE:CE2	2.38	0.58
1:7:109:PRO:HB2	1:7:486:LYS:HD2	1.86	0.58
1:N:537:ARG:HD2	1:N:546:PHE:CE2	2.38	0.58
1:V:546:PHE:HA	1:V:555:GLU:O	2.04	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:X:537:ARG:HD2	1:X:546:PHE:CE2	2.38	0.58
1:Y:531:LEU:HD13	1:Z:128:GLN:HB2	1.85	0.58
1:Y:546:PHE:HA	1:Y:555:GLU:O	2.04	0.58
1:e:128:GLN:HB2	1:f:531:LEU:HD13	1.85	0.58
1:e:276:GLN:HE21	1:e:562:ARG:HH12	1.52	0.58
1:g:128:GLN:HB2	1:z:531:LEU:HD13	1.84	0.58
1:i:276:GLN:HE21	1:i:562:ARG:HH12	1.52	0.58
1:m:276:GLN:HE21	1:m:562:ARG:HH12	1.52	0.58
1:o:109:PRO:HB2	1:o:486:LYS:HD2	1.86	0.58
1:o:531:LEU:HD13	1:6:128:GLN:HB2	1.85	0.58
1:t:276:GLN:HE21	1:t:562:ARG:HH12	1.52	0.58
1:2:128:GLN:HB2	1:4:531:LEU:HD13	1.85	0.58
1:7:531:LEU:HD13	1:8:128:GLN:HB2	1.85	0.58
1:7:546:PHE:HA	1:7:555:GLU:O	2.04	0.58
1:A:109:PRO:HB2	1:A:486:LYS:HD2	1.86	0.58
1:C:128:GLN:HB2	1:L:531:LEU:HD13	1.85	0.58
1:N:276:GLN:HE21	1:N:562:ARG:HH12	1.52	0.58
1:S:109:PRO:HB2	1:S:486:LYS:HD2	1.86	0.58
1:T:276:GLN:HE21	1:T:562:ARG:HH12	1.52	0.58
1:c:276:GLN:HE21	1:c:562:ARG:HH12	1.52	0.58
1:e:546:PHE:HA	1:e:555:GLU:O	2.04	0.58
1:h:546:PHE:HA	1:h:555:GLU:O	2.04	0.58
1:i:537:ARG:HD2	1:i:546:PHE:CE2	2.38	0.58
1:p:546:PHE:HA	1:p:555:GLU:O	2.04	0.58
1:q:531:LEU:HD13	1:x:128:GLN:HB2	1.85	0.58
1:1:431:ASP:OD2	1:2:340:ARG:NH2	2.37	0.58
1:E:431:ASP:OD2	1:Q:340:ARG:NH2	2.37	0.58
1:E:537:ARG:HD2	1:E:546:PHE:CE2	2.38	0.58
1:J:109:PRO:HB2	1:J:486:LYS:HD2	1.86	0.58
1:J:128:GLN:HB2	1:K:531:LEU:HD13	1.85	0.58
1:J:276:GLN:HE21	1:J:562:ARG:HH12	1.52	0.58
1:L:109:PRO:HB2	1:L:486:LYS:HD2	1.86	0.58
1:M:546:PHE:HA	1:M:555:GLU:O	2.04	0.58
1:P:546:PHE:HA	1:P:555:GLU:O	2.04	0.58
1:j:546:PHE:HA	1:j:555:GLU:O	2.04	0.58
1:u:128:GLN:HB2	1:1:531:LEU:HD13	1.85	0.58
1:v:109:PRO:HB2	1:v:486:LYS:HD2	1.86	0.58
1:z:109:PRO:HB2	1:z:486:LYS:HD2	1.86	0.58
1:2:109:PRO:HB2	1:2:486:LYS:HD2	1.86	0.58
1:5:276:GLN:HE21	1:5:562:ARG:HH12	1.52	0.58
1:B:109:PRO:HB2	1:B:486:LYS:HD2	1.86	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:531:LEU:HD13	1:I:128:GLN:HB2	1.85	0.57
1:H:276:GLN:HE21	1:H:562:ARG:HH12	1.52	0.57
1:Q:128:GLN:HB2	1:R:531:LEU:HD13	1.86	0.57
1:R:276:GLN:HE21	1:R:562:ARG:HH12	1.52	0.57
1:c:546:PHE:HA	1:c:555:GLU:O	2.04	0.57
1:p:276:GLN:HE21	1:p:562:ARG:HH12	1.52	0.57
1:r:109:PRO:HB2	1:r:486:LYS:HD2	1.86	0.57
1:r:546:PHE:HA	1:r:555:GLU:O	2.04	0.57
1:u:531:LEU:HD13	1:1:128:GLN:HB2	1.85	0.57
1:w:537:ARG:HD2	1:w:546:PHE:CE2	2.38	0.57
1:1:109:PRO:HB2	1:1:486:LYS:HD2	1.86	0.57
1:2:276:GLN:HE21	1:2:562:ARG:HH12	1.52	0.57
1:I:109:PRO:HB2	1:I:486:LYS:HD2	1.86	0.57
1:P:109:PRO:HB2	1:P:486:LYS:HD2	1.86	0.57
1:e:531:LEU:HD13	1:f:128:GLN:HB2	1.85	0.57
1:q:276:GLN:HE21	1:q:562:ARG:HH12	1.52	0.57
1:u:109:PRO:HB2	1:u:486:LYS:HD2	1.86	0.57
1:6:546:PHE:HA	1:6:555:GLU:O	2.04	0.57
1:D:431:ASP:OD2	1:N:340:ARG:NH2	2.38	0.57
1:I:276:GLN:HE21	1:I:562:ARG:HH12	1.52	0.57
1:O:340:ARG:NH2	1:n:431:ASP:OD2	2.38	0.57
1:S:546:PHE:HA	1:S:555:GLU:O	2.04	0.57
1:V:109:PRO:HB2	1:V:486:LYS:HD2	1.86	0.57
1:V:276:GLN:HE21	1:V:562:ARG:HH12	1.52	0.57
1:W:546:PHE:HA	1:W:555:GLU:O	2.04	0.57
1:a:546:PHE:HA	1:a:555:GLU:O	2.04	0.57
1:d:431:ASP:OD2	1:l:340:ARG:NH2	2.38	0.57
1:i:340:ARG:NH2	1:k:431:ASP:OD2	2.38	0.57
1:j:109:PRO:HB2	1:j:486:LYS:HD2	1.86	0.57
1:u:276:GLN:HE21	1:u:562:ARG:HH12	1.52	0.57
1:u:546:PHE:HA	1:u:555:GLU:O	2.04	0.57
1:3:546:PHE:HA	1:3:555:GLU:O	2.04	0.57
1:6:431:ASP:OD2	1:7:340:ARG:NH2	2.38	0.57
1:8:276:GLN:HE21	1:8:562:ARG:HH12	1.52	0.57
1:H:376:LYS:HE2	1:H:393:GLN:HB3	1.87	0.57
1:I:546:PHE:HA	1:I:555:GLU:O	2.04	0.57
1:N:128:GLN:HB2	1:O:531:LEU:HD13	1.85	0.57
1:N:531:LEU:HD13	1:O:128:GLN:HB2	1.85	0.57
1:O:376:LYS:HE2	1:O:393:GLN:HB3	1.87	0.57
1:W:431:ASP:OD2	1:Y:340:ARG:NH2	2.38	0.57
1:Z:276:GLN:HE21	1:Z:562:ARG:HH12	1.52	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Z:376:LYS:HE2	1:Z:393:GLN:HB3	1.87	0.57
1:d:109:PRO:HB2	1:d:486:LYS:HD2	1.86	0.57
1:i:531:LEU:HD13	1:l:128:GLN:HB2	1.85	0.57
1:p:109:PRO:HB2	1:p:486:LYS:HD2	1.86	0.57
1:p:531:LEU:HD13	1:s:128:GLN:HB2	1.85	0.57
1:w:431:ASP:OD2	1:x:340:ARG:NH2	2.38	0.57
1:2:531:LEU:HD13	1:4:128:GLN:HB2	1.85	0.57
1:8:376:LYS:HE2	1:8:393:GLN:HB3	1.87	0.57
1:E:340:ARG:NH2	1:F:431:ASP:OD2	2.38	0.57
1:E:546:PHE:HA	1:E:555:GLU:O	2.04	0.57
1:N:109:PRO:HB2	1:N:486:LYS:HD2	1.86	0.57
1:b:128:GLN:HB2	1:c:531:LEU:HD13	1.85	0.57
1:i:109:PRO:HB2	1:i:486:LYS:HD2	1.86	0.57
1:i:128:GLN:HB2	1:l:531:LEU:HD13	1.85	0.57
1:l:376:LYS:HE2	1:l:393:GLN:HB3	1.87	0.57
1:m:531:LEU:HD13	1:r:128:GLN:HB2	1.85	0.57
1:n:109:PRO:HB2	1:n:486:LYS:HD2	1.86	0.57
1:n:376:LYS:HE2	1:n:393:GLN:HB3	1.87	0.57
1:s:109:PRO:HB2	1:s:486:LYS:HD2	1.86	0.57
1:5:376:LYS:HE2	1:5:393:GLN:HB3	1.87	0.57
1:7:128:GLN:HB2	1:8:531:LEU:HD13	1.85	0.57
1:B:128:GLN:HB2	1:I:531:LEU:HD13	1.85	0.57
1:C:340:ARG:NH2	1:M:431:ASP:OD2	2.38	0.57
1:D:376:LYS:HE2	1:D:393:GLN:HB3	1.87	0.57
1:J:531:LEU:HD13	1:K:128:GLN:HB2	1.85	0.57
1:P:276:GLN:HE21	1:P:562:ARG:HH12	1.52	0.57
1:R:546:PHE:HA	1:R:555:GLU:O	2.04	0.57
1:S:276:GLN:HE21	1:S:562:ARG:HH12	1.52	0.57
1:U:109:PRO:HB2	1:U:486:LYS:HD2	1.86	0.57
1:b:109:PRO:HB2	1:b:486:LYS:HD2	1.86	0.57
1:d:376:LYS:HE2	1:d:393:GLN:HB3	1.87	0.57
1:g:340:ARG:NH2	1:h:431:ASP:OD2	2.38	0.57
1:q:376:LYS:HE2	1:q:393:GLN:HB3	1.87	0.57
1:t:546:PHE:HA	1:t:555:GLU:O	2.04	0.57
1:w:340:ARG:NH2	1:y:431:ASP:OD2	2.38	0.57
1:w:546:PHE:HA	1:w:555:GLU:O	2.04	0.57
1:A:376:LYS:HE2	1:A:393:GLN:HB3	1.87	0.57
1:D:340:ARG:NH2	1:P:431:ASP:OD2	2.38	0.57
1:G:376:LYS:HE2	1:G:393:GLN:HB3	1.87	0.57
1:M:340:ARG:NH2	1:b:431:ASP:OD2	2.38	0.57
1:O:431:ASP:OD2	1:m:340:ARG:NH2	2.37	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:R:376:LYS:HE2	1:R:393:GLN:HB3	1.87	0.57
1:V:431:ASP:OD2	1:e:340:ARG:NH2	2.38	0.57
1:c:340:ARG:NH2	1:p:431:ASP:OD2	2.38	0.57
1:f:431:ASP:OD2	1:h:340:ARG:NH2	2.38	0.57
1:j:276:GLN:HE21	1:j:562:ARG:HH12	1.52	0.57
1:j:431:ASP:OD2	1:k:340:ARG:NH2	2.38	0.57
1:k:376:LYS:HE2	1:k:393:GLN:HB3	1.87	0.57
1:m:109:PRO:HB2	1:m:486:LYS:HD2	1.86	0.57
1:o:335:SER:H	1:o:435:THR:HB	1.70	0.57
1:t:376:LYS:HE2	1:t:393:GLN:HB3	1.87	0.57
1:v:376:LYS:HE2	1:v:393:GLN:HB3	1.87	0.57
1:2:546:PHE:HA	1:2:555:GLU:O	2.04	0.57
1:D:276:GLN:HE21	1:D:562:ARG:HH12	1.52	0.57
1:F:335:SER:H	1:F:435:THR:HB	1.70	0.57
1:G:546:PHE:HA	1:G:555:GLU:O	2.04	0.57
1:K:340:ARG:NH2	1:8:431:ASP:OD2	2.37	0.57
1:L:276:GLN:HE21	1:L:562:ARG:HH12	1.52	0.57
1:S:128:GLN:HB2	1:T:531:LEU:HD13	1.85	0.57
1:S:376:LYS:HE2	1:S:393:GLN:HB3	1.87	0.57
1:T:109:PRO:HB2	1:T:486:LYS:HD2	1.86	0.57
1:T:340:ARG:NH2	1:l:431:ASP:OD2	2.37	0.57
1:V:376:LYS:HE2	1:V:393:GLN:HB3	1.87	0.57
1:X:340:ARG:NH2	1:e:431:ASP:OD2	2.38	0.57
1:Y:128:GLN:HB2	1:Z:531:LEU:HD13	1.85	0.57
1:p:376:LYS:HE2	1:p:393:GLN:HB3	1.87	0.57
1:q:546:PHE:HA	1:q:555:GLU:O	2.04	0.57
1:r:276:GLN:HE21	1:r:562:ARG:HH12	1.52	0.57
1:x:109:PRO:HB2	1:x:486:LYS:HD2	1.86	0.57
1:l:335:SER:H	1:l:435:THR:HB	1.70	0.57
1:B:335:SER:H	1:B:435:THR:HB	1.70	0.57
1:B:431:ASP:OD2	1:J:340:ARG:NH2	2.38	0.57
1:H:340:ARG:NH2	1:Y:431:ASP:OD2	2.38	0.57
1:J:73:GLU:OE2	1:J:504:ARG:NH2	2.38	0.57
1:J:546:PHE:HA	1:J:555:GLU:O	2.04	0.57
1:Q:335:SER:H	1:Q:435:THR:HB	1.70	0.57
1:R:109:PRO:HB2	1:R:486:LYS:HD2	1.86	0.57
1:S:73:GLU:OE2	1:S:504:ARG:NH2	2.38	0.57
1:U:376:LYS:HE2	1:U:393:GLN:HB3	1.87	0.57
1:X:335:SER:H	1:X:435:THR:HB	1.70	0.57
1:Y:335:SER:H	1:Y:435:THR:HB	1.70	0.57
1:Z:431:ASP:OD2	1:4:340:ARG:NH2	2.38	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:a:335:SER:H	1:a:435:THR:HB	1.70	0.57
1:h:335:SER:H	1:h:435:THR:HB	1.70	0.57
1:i:431:ASP:OD2	1:j:340:ARG:NH2	2.38	0.57
1:j:73:GLU:OE2	1:j:504:ARG:NH2	2.38	0.57
1:k:109:PRO:HB2	1:k:486:LYS:HD2	1.86	0.57
1:k:276:GLN:HE21	1:k:562:ARG:HH12	1.52	0.57
1:m:546:PHE:HA	1:m:555:GLU:O	2.04	0.57
1:r:73:GLU:OE2	1:r:504:ARG:NH2	2.38	0.57
1:s:376:LYS:HE2	1:s:393:GLN:HB3	1.87	0.57
1:u:376:LYS:HE2	1:u:393:GLN:HB3	1.87	0.57
1:y:335:SER:H	1:y:435:THR:HB	1.70	0.57
1:z:276:GLN:HE21	1:z:562:ARG:HH12	1.52	0.57
1:2:73:GLU:OE2	1:2:504:ARG:NH2	2.38	0.57
1:3:335:SER:H	1:3:435:THR:HB	1.70	0.57
1:5:109:PRO:HB2	1:5:486:LYS:HD2	1.86	0.57
1:5:340:ARG:NH2	1:7:431:ASP:OD2	2.38	0.57
1:D:109:PRO:HB2	1:D:486:LYS:HD2	1.86	0.57
1:H:109:PRO:HB2	1:H:486:LYS:HD2	1.86	0.57
1:I:376:LYS:HE2	1:I:393:GLN:HB3	1.87	0.57
1:M:335:SER:H	1:M:435:THR:HB	1.70	0.57
1:N:431:ASP:OD2	1:P:340:ARG:NH2	2.38	0.57
1:P:73:GLU:OE2	1:P:504:ARG:NH2	2.38	0.57
1:S:431:ASP:OD2	1:U:340:ARG:NH2	2.38	0.57
1:T:546:PHE:HA	1:T:555:GLU:O	2.04	0.57
1:Z:73:GLU:OE2	1:Z:504:ARG:NH2	2.38	0.57
1:Z:109:PRO:HB2	1:Z:486:LYS:HD2	1.86	0.57
1:c:431:ASP:OD2	1:o:340:ARG:NH2	2.38	0.57
1:f:109:PRO:HB2	1:f:486:LYS:HD2	1.86	0.57
1:f:340:ARG:NH2	1:g:431:ASP:OD2	2.38	0.57
1:m:335:SER:H	1:m:435:THR:HB	1.70	0.57
1:r:376:LYS:HE2	1:r:393:GLN:HB3	1.87	0.57
1:x:73:GLU:OE2	1:x:504:ARG:NH2	2.38	0.57
1:4:335:SER:H	1:4:435:THR:HB	1.70	0.57
1:C:431:ASP:OD2	1:b:340:ARG:NH2	2.38	0.56
1:D:335:SER:H	1:D:435:THR:HB	1.70	0.56
1:F:73:GLU:OE2	1:F:504:ARG:NH2	2.38	0.56
1:F:546:PHE:HA	1:F:555:GLU:O	2.04	0.56
1:G:109:PRO:HB2	1:G:486:LYS:HD2	1.86	0.56
1:G:431:ASP:OD2	1:I:340:ARG:NH2	2.38	0.56
1:K:335:SER:H	1:K:435:THR:HB	1.70	0.56
1:Q:73:GLU:OE2	1:Q:504:ARG:NH2	2.38	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Q:109:PRO:HB2	1:Q:486:LYS:HD2	1.86	0.56
1:T:335:SER:H	1:T:435:THR:HB	1.70	0.56
1:U:335:SER:H	1:U:435:THR:HB	1.70	0.56
1:X:546:PHE:HA	1:X:555:GLU:O	2.04	0.56
1:e:109:PRO:HB2	1:e:486:LYS:HD2	1.86	0.56
1:k:335:SER:H	1:k:435:THR:HB	1.70	0.56
1:r:431:ASP:OD2	1:s:340:ARG:NH2	2.38	0.56
1:s:335:SER:H	1:s:435:THR:HB	1.70	0.56
1:t:340:ARG:NH2	1:v:431:ASP:OD2	2.38	0.56
1:t:431:ASP:OD2	1:u:340:ARG:NH2	2.38	0.56
1:w:176:GLN:OE1	1:w:486:LYS:HE3	2.05	0.56
1:w:335:SER:H	1:w:435:THR:HB	1.70	0.56
1:x:335:SER:H	1:x:435:THR:HB	1.70	0.56
1:3:340:ARG:NH2	1:4:431:ASP:OD2	2.38	0.56
1:4:376:LYS:HE2	1:4:393:GLN:HB3	1.87	0.56
1:7:335:SER:H	1:7:435:THR:HB	1.70	0.56
1:7:376:LYS:HE2	1:7:393:GLN:HB3	1.87	0.56
1:8:73:GLU:OE2	1:8:504:ARG:NH2	2.38	0.56
1:A:176:GLN:OE1	1:A:486:LYS:HE3	2.06	0.56
1:E:176:GLN:OE1	1:E:486:LYS:HE3	2.06	0.56
1:H:335:SER:H	1:H:435:THR:HB	1.70	0.56
1:K:376:LYS:HE2	1:K:393:GLN:HB3	1.87	0.56
1:K:431:ASP:OD2	1:a:340:ARG:NH2	2.38	0.56
1:M:276:GLN:HE21	1:M:562:ARG:HH12	1.52	0.56
1:O:335:SER:H	1:O:435:THR:HB	1.70	0.56
1:S:176:GLN:OE1	1:S:486:LYS:HE3	2.06	0.56
1:T:73:GLU:OE2	1:T:504:ARG:NH2	2.38	0.56
1:W:73:GLU:OE2	1:W:504:ARG:NH2	2.38	0.56
1:Y:376:LYS:HE2	1:Y:393:GLN:HB3	1.87	0.56
1:d:276:GLN:HE21	1:d:562:ARG:HH12	1.52	0.56
1:e:73:GLU:OE2	1:e:504:ARG:NH2	2.38	0.56
1:l:335:SER:H	1:l:435:THR:HB	1.70	0.56
1:m:73:GLU:OE2	1:m:504:ARG:NH2	2.38	0.56
1:o:546:PHE:HA	1:o:555:GLU:O	2.04	0.56
1:q:109:PRO:HB2	1:q:486:LYS:HD2	1.86	0.56
1:t:109:PRO:HB2	1:t:486:LYS:HD2	1.86	0.56
1:u:73:GLU:OE2	1:u:504:ARG:NH2	2.38	0.56
1:v:176:GLN:OE1	1:v:486:LYS:HE3	2.06	0.56
1:y:73:GLU:OE2	1:y:504:ARG:NH2	2.38	0.56
1:y:546:PHE:HA	1:y:555:GLU:O	2.04	0.56
1:z:335:SER:H	1:z:435:THR:HB	1.70	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:3:376:LYS:HE2	1:3:393:GLN:HB3	1.87	0.56
1:A:340:ARG:NH2	1:I:431:ASP:OD2	2.38	0.56
1:A:431:ASP:OD2	1:G:340:ARG:NH2	2.38	0.56
1:C:376:LYS:HE2	1:C:393:GLN:HB3	1.87	0.56
1:D:176:GLN:OE1	1:D:486:LYS:HE3	2.06	0.56
1:E:109:PRO:HB2	1:E:486:LYS:HD2	1.86	0.56
1:E:335:SER:H	1:E:435:THR:HB	1.70	0.56
1:E:376:LYS:HE2	1:E:393:GLN:HB3	1.87	0.56
1:F:376:LYS:HE2	1:F:393:GLN:HB3	1.87	0.56
1:G:73:GLU:OE2	1:G:504:ARG:NH2	2.38	0.56
1:H:73:GLU:OE2	1:H:504:ARG:NH2	2.38	0.56
1:I:73:GLU:OE2	1:I:504:ARG:NH2	2.38	0.56
1:J:431:ASP:OD2	1:L:340:ARG:NH2	2.38	0.56
1:L:335:SER:H	1:L:435:THR:HB	1.70	0.56
1:P:376:LYS:HE2	1:P:393:GLN:HB3	1.87	0.56
1:R:335:SER:H	1:R:435:THR:HB	1.70	0.56
1:U:73:GLU:OE2	1:U:504:ARG:NH2	2.38	0.56
1:W:376:LYS:HE2	1:W:393:GLN:HB3	1.87	0.56
1:X:176:GLN:OE1	1:X:486:LYS:HE3	2.06	0.56
1:Z:340:ARG:NH2	1:3:431:ASP:OD2	2.38	0.56
1:a:73:GLU:OE2	1:a:504:ARG:NH2	2.38	0.56
1:a:109:PRO:HB2	1:a:486:LYS:HD2	1.86	0.56
1:a:176:GLN:OE1	1:a:486:LYS:HE3	2.06	0.56
1:a:376:LYS:HE2	1:a:393:GLN:HB3	1.87	0.56
1:a:431:ASP:OD2	1:8:340:ARG:NH2	2.38	0.56
1:b:276:GLN:HE21	1:b:562:ARG:HH12	1.52	0.56
1:b:335:SER:H	1:b:435:THR:HB	1.70	0.56
1:c:73:GLU:OE2	1:c:504:ARG:NH2	2.38	0.56
1:c:109:PRO:HB2	1:c:486:LYS:HD2	1.86	0.56
1:c:376:LYS:HE2	1:c:393:GLN:HB3	1.87	0.56
1:d:73:GLU:OE2	1:d:504:ARG:NH2	2.38	0.56
1:d:335:SER:H	1:d:435:THR:HB	1.70	0.56
1:e:376:LYS:HE2	1:e:393:GLN:HB3	1.87	0.56
1:f:276:GLN:HE21	1:f:562:ARG:HH12	1.52	0.56
1:g:73:GLU:OE2	1:g:504:ARG:NH2	2.38	0.56
1:g:376:LYS:HE2	1:g:393:GLN:HB3	1.87	0.56
1:h:276:GLN:HE21	1:h:562:ARG:HH12	1.52	0.56
1:k:176:GLN:OE1	1:k:486:LYS:HE3	2.06	0.56
1:l:109:PRO:HB2	1:l:486:LYS:HD2	1.86	0.56
1:l:276:GLN:HE21	1:l:562:ARG:HH12	1.52	0.56
1:n:276:GLN:HE21	1:n:562:ARG:HH12	1.52	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:n:335:SER:H	1:n:435:THR:HB	1.70	0.56
1:o:176:GLN:OE1	1:o:486:LYS:HE3	2.06	0.56
1:r:176:GLN:OE1	1:r:486:LYS:HE3	2.06	0.56
1:s:73:GLU:OE2	1:s:504:ARG:NH2	2.38	0.56
1:u:431:ASP:OD2	1:v:340:ARG:NH2	2.38	0.56
1:v:73:GLU:OE2	1:v:504:ARG:NH2	2.38	0.56
1:w:376:LYS:HE2	1:w:393:GLN:HB3	1.87	0.56
1:y:376:LYS:HE2	1:y:393:GLN:HB3	1.87	0.56
1:z:73:GLU:OE2	1:z:504:ARG:NH2	2.38	0.56
1:3:73:GLU:OE2	1:3:504:ARG:NH2	2.38	0.56
1:4:73:GLU:OE2	1:4:504:ARG:NH2	2.38	0.56
1:5:335:SER:H	1:5:435:THR:HB	1.70	0.56
1:6:73:GLU:OE2	1:6:504:ARG:NH2	2.38	0.56
1:6:376:LYS:HE2	1:6:393:GLN:HB3	1.87	0.56
1:8:109:PRO:HB2	1:8:486:LYS:HD2	1.86	0.56
1:A:73:GLU:OE2	1:A:504:ARG:NH2	2.38	0.56
1:B:73:GLU:OE2	1:B:504:ARG:NH2	2.38	0.56
1:B:276:GLN:HE21	1:B:562:ARG:HH12	1.52	0.56
1:B:376:LYS:HE2	1:B:393:GLN:HB3	1.87	0.56
1:C:73:GLU:OE2	1:C:504:ARG:NH2	2.38	0.56
1:C:176:GLN:OE1	1:C:486:LYS:HE3	2.06	0.56
1:J:176:GLN:OE1	1:J:486:LYS:HE3	2.06	0.56
1:L:73:GLU:OE2	1:L:504:ARG:NH2	2.38	0.56
1:M:376:LYS:HE2	1:M:393:GLN:HB3	1.87	0.56
1:N:176:GLN:OE1	1:N:486:LYS:HE3	2.06	0.56
1:O:276:GLN:HE21	1:O:562:ARG:HH12	1.52	0.56
1:Q:276:GLN:HE21	1:Q:562:ARG:HH12	1.52	0.56
1:V:176:GLN:OE1	1:V:486:LYS:HE3	2.06	0.56
1:a:276:GLN:HE21	1:a:562:ARG:HH12	1.52	0.56
1:e:335:SER:H	1:e:435:THR:HB	1.70	0.56
1:f:335:SER:H	1:f:435:THR:HB	1.70	0.56
1:g:176:GLN:OE1	1:g:486:LYS:HE3	2.06	0.56
1:h:176:GLN:OE1	1:h:486:LYS:HE3	2.06	0.56
1:h:376:LYS:HE2	1:h:393:GLN:HB3	1.87	0.56
1:j:335:SER:H	1:j:435:THR:HB	1.70	0.56
1:j:376:LYS:HE2	1:j:393:GLN:HB3	1.87	0.56
1:l:176:GLN:OE1	1:l:486:LYS:HE3	2.06	0.56
1:n:73:GLU:OE2	1:n:504:ARG:NH2	2.38	0.56
1:o:276:GLN:HE21	1:o:562:ARG:HH12	1.52	0.56
1:q:431:ASP:OD2	1:r:340:ARG:NH2	2.38	0.56
1:t:73:GLU:OE2	1:t:504:ARG:NH2	2.38	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:w:109:PRO:HB2	1:w:486:LYS:HD2	1.86	0.56
1:1:73:GLU:OE2	1:1:504:ARG:NH2	2.38	0.56
1:2:176:GLN:OE1	1:2:486:LYS:HE3	2.06	0.56
1:3:109:PRO:HB2	1:3:486:LYS:HD2	1.86	0.56
1:3:176:GLN:OE1	1:3:486:LYS:HE3	2.06	0.56
1:5:73:GLU:OE2	1:5:504:ARG:NH2	2.38	0.56
1:K:73:GLU:OE2	1:K:504:ARG:NH2	2.38	0.56
1:M:176:GLN:OE1	1:M:486:LYS:HE3	2.06	0.56
1:O:73:GLU:OE2	1:O:504:ARG:NH2	2.38	0.56
1:O:109:PRO:HB2	1:O:486:LYS:HD2	1.86	0.56
1:O:176:GLN:OE1	1:O:486:LYS:HE3	2.06	0.56
1:R:431:ASP:OD2	1:S:340:ARG:NH2	2.38	0.56
1:T:431:ASP:OD2	1:d:340:ARG:NH2	2.38	0.56
1:Y:176:GLN:OE1	1:Y:486:LYS:HE3	2.06	0.56
1:b:73:GLU:OE2	1:b:504:ARG:NH2	2.38	0.56
1:b:176:GLN:OE1	1:b:486:LYS:HE3	2.06	0.56
1:c:335:SER:H	1:c:435:THR:HB	1.70	0.56
1:i:176:GLN:OE1	1:i:486:LYS:HE3	2.06	0.56
1:p:176:GLN:OE1	1:p:486:LYS:HE3	2.06	0.56
1:q:335:SER:H	1:q:435:THR:HB	1.70	0.56
1:u:335:SER:H	1:u:435:THR:HB	1.70	0.56
1:6:335:SER:H	1:6:435:THR:HB	1.70	0.56
1:7:176:GLN:OE1	1:7:486:LYS:HE3	2.06	0.56
1:F:340:ARG:NH2	1:Q:431:ASP:OD2	2.38	0.56
1:H:431:ASP:OD2	1:W:340:ARG:NH2	2.38	0.56
1:K:276:GLN:HE21	1:K:562:ARG:HH12	1.52	0.56
1:P:335:SER:H	1:P:435:THR:HB	1.70	0.56
1:W:109:PRO:HB2	1:W:486:LYS:HD2	1.86	0.56
1:W:335:SER:H	1:W:435:THR:HB	1.70	0.56
1:f:176:GLN:OE1	1:f:486:LYS:HE3	2.06	0.56
1:l:73:GLU:OE2	1:l:504:ARG:NH2	2.38	0.56
1:m:431:ASP:OD2	1:n:340:ARG:NH2	2.38	0.56
1:p:73:GLU:OE2	1:p:504:ARG:NH2	2.38	0.56
1:w:73:GLU:OE2	1:w:504:ARG:NH2	2.38	0.56
1:x:276:GLN:HE21	1:x:562:ARG:HH12	1.52	0.56
1:x:431:ASP:OD2	1:y:340:ARG:NH2	2.38	0.56
1:1:276:GLN:HE21	1:1:562:ARG:HH12	1.52	0.56
1:1:376:LYS:HE2	1:1:393:GLN:HB3	1.87	0.56
1:3:276:GLN:HE21	1:3:562:ARG:HH12	1.52	0.56
1:4:276:GLN:HE21	1:4:562:ARG:HH12	1.52	0.56
1:D:78:TYR:OH	1:D:105:GLN:NE2	2.39	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:73:GLU:OE2	1:E:504:ARG:NH2	2.38	0.56
1:G:78:TYR:OH	1:G:105:GLN:NE2	2.39	0.56
1:I:335:SER:H	1:I:435:THR:HB	1.70	0.56
1:V:73:GLU:OE2	1:V:504:ARG:NH2	2.38	0.56
1:X:276:GLN:HE21	1:X:562:ARG:HH12	1.52	0.56
1:X:376:LYS:HE2	1:X:393:GLN:HB3	1.87	0.56
1:f:73:GLU:OE2	1:f:504:ARG:NH2	2.38	0.56
1:o:376:LYS:HE2	1:o:393:GLN:HB3	1.87	0.56
1:5:431:ASP:OD2	1:6:340:ARG:NH2	2.38	0.56
1:6:109:PRO:HB2	1:6:486:LYS:HD2	1.86	0.56
1:6:176:GLN:OE1	1:6:486:LYS:HE3	2.06	0.56
1:D:73:GLU:OE2	1:D:504:ARG:NH2	2.38	0.56
1:K:78:TYR:OH	1:K:105:GLN:NE2	2.39	0.56
1:M:73:GLU:OE2	1:M:504:ARG:NH2	2.38	0.56
1:Y:78:TYR:OH	1:Y:105:GLN:NE2	2.39	0.56
1:h:73:GLU:OE2	1:h:504:ARG:NH2	2.38	0.56
1:k:78:TYR:OH	1:k:105:GLN:NE2	2.39	0.56
1:t:78:TYR:OH	1:t:105:GLN:NE2	2.39	0.56
1:x:376:LYS:HE2	1:x:393:GLN:HB3	1.87	0.56
1:4:78:TYR:OH	1:4:105:GLN:NE2	2.39	0.56
1:4:109:PRO:HB2	1:4:486:LYS:HD2	1.86	0.56
1:7:78:TYR:OH	1:7:105:GLN:NE2	2.39	0.56
1:B:340:ARG:NH2	1:L:431:ASP:OD2	2.39	0.56
1:K:109:PRO:HB2	1:K:486:LYS:HD2	1.86	0.56
1:N:376:LYS:HE2	1:N:393:GLN:HB3	1.86	0.56
1:Q:376:LYS:HE2	1:Q:393:GLN:HB3	1.87	0.56
1:W:176:GLN:OE1	1:W:486:LYS:HE3	2.06	0.56
1:o:431:ASP:OD2	1:p:340:ARG:NH2	2.38	0.56
1:p:335:SER:H	1:p:435:THR:HB	1.70	0.56
1:t:335:SER:H	1:t:435:THR:HB	1.70	0.56
1:z:431:ASP:OD2	1:1:340:ARG:NH2	2.39	0.56
1:5:78:TYR:OH	1:5:105:GLN:NE2	2.39	0.56
1:C:78:TYR:OH	1:C:105:GLN:NE2	2.39	0.56
1:H:78:TYR:OH	1:H:105:GLN:NE2	2.39	0.56
1:J:376:LYS:HE2	1:J:393:GLN:HB3	1.87	0.56
1:N:335:SER:H	1:N:435:THR:HB	1.70	0.56
1:S:78:TYR:OH	1:S:105:GLN:NE2	2.39	0.56
1:X:78:TYR:OH	1:X:105:GLN:NE2	2.39	0.56
1:d:176:GLN:OE1	1:d:486:LYS:HE3	2.06	0.56
1:g:78:TYR:OH	1:g:105:GLN:NE2	2.39	0.56
1:k:73:GLU:OE2	1:k:504:ARG:NH2	2.38	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:n:176:GLN:OE1	1:n:486:LYS:HE3	2.06	0.56
1:q:73:GLU:OE2	1:q:504:ARG:NH2	2.38	0.56
1:r:78:TYR:OH	1:r:105:GLN:NE2	2.39	0.56
1:x:176:GLN:OE1	1:x:486:LYS:HE3	2.06	0.56
1:G:176:GLN:OE1	1:G:486:LYS:HE3	2.06	0.55
1:G:335:SER:H	1:G:435:THR:HB	1.70	0.55
1:J:78:TYR:OH	1:J:105:GLN:NE2	2.39	0.55
1:K:318:SER:HB2	1:a:376:LYS:HZ1	1.71	0.55
1:Q:176:GLN:OE1	1:Q:486:LYS:HE3	2.06	0.55
1:R:73:GLU:OE2	1:R:504:ARG:NH2	2.38	0.55
1:R:78:TYR:OH	1:R:105:GLN:NE2	2.39	0.55
1:V:335:SER:H	1:V:435:THR:HB	1.70	0.55
1:X:73:GLU:OE2	1:X:504:ARG:NH2	2.38	0.55
1:c:78:TYR:OH	1:c:105:GLN:NE2	2.39	0.55
1:e:78:TYR:OH	1:e:105:GLN:NE2	2.39	0.55
1:i:73:GLU:OE2	1:i:504:ARG:NH2	2.38	0.55
1:o:73:GLU:OE2	1:o:504:ARG:NH2	2.38	0.55
1:o:78:TYR:OH	1:o:105:GLN:NE2	2.39	0.55
1:s:176:GLN:OE1	1:s:486:LYS:HE3	2.06	0.55
1:2:78:TYR:OH	1:2:105:GLN:NE2	2.39	0.55
1:B:78:TYR:OH	1:B:105:GLN:NE2	2.39	0.55
1:C:44:ASN:ND2	1:C:201:PRO:HB3	2.22	0.55
1:I:176:GLN:OE1	1:I:486:LYS:HE3	2.06	0.55
1:N:73:GLU:OE2	1:N:504:ARG:NH2	2.38	0.55
1:Q:78:TYR:OH	1:Q:105:GLN:NE2	2.39	0.55
1:U:176:GLN:OE1	1:U:486:LYS:HE3	2.06	0.55
1:V:340:ARG:NH2	1:X:431:ASP:OD2	2.38	0.55
1:f:376:LYS:HE2	1:f:393:GLN:HB3	1.87	0.55
1:g:44:ASN:ND2	1:g:201:PRO:HB3	2.22	0.55
1:i:78:TYR:OH	1:i:105:GLN:NE2	2.39	0.55
1:i:335:SER:H	1:i:435:THR:HB	1.70	0.55
1:i:376:LYS:HE2	1:i:393:GLN:HB3	1.87	0.55
1:q:78:TYR:OH	1:q:105:GLN:NE2	2.39	0.55
1:t:176:GLN:OE1	1:t:486:LYS:HE3	2.06	0.55
1:1:44:ASN:ND2	1:1:201:PRO:HB3	2.22	0.55
1:1:78:TYR:OH	1:1:105:GLN:NE2	2.39	0.55
1:2:376:LYS:HE2	1:2:393:GLN:HB3	1.87	0.55
1:8:176:GLN:OE1	1:8:486:LYS:HE3	2.06	0.55
1:A:335:SER:H	1:A:435:THR:HB	1.70	0.55
1:B:44:ASN:ND2	1:B:201:PRO:HB3	2.22	0.55
1:C:283:SER:O	1:C:287:THR:OG1	2.25	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:453:ALA:H	1:G:470:HIS:HE1	1.55	0.55
1:H:176:GLN:OE1	1:H:486:LYS:HE3	2.06	0.55
1:N:78:TYR:OH	1:N:105:GLN:NE2	2.39	0.55
1:P:78:TYR:OH	1:P:105:GLN:NE2	2.39	0.55
1:Z:176:GLN:OE1	1:Z:486:LYS:HE3	2.06	0.55
1:b:376:LYS:HE2	1:b:393:GLN:HB3	1.87	0.55
1:d:453:ALA:H	1:d:470:HIS:HE1	1.55	0.55
1:e:44:ASN:ND2	1:e:201:PRO:HB3	2.22	0.55
1:g:283:SER:O	1:g:287:THR:OG1	2.25	0.55
1:j:176:GLN:OE1	1:j:486:LYS:HE3	2.06	0.55
1:n:453:ALA:H	1:n:470:HIS:HE1	1.55	0.55
1:t:453:ALA:H	1:t:470:HIS:HE1	1.55	0.55
1:u:176:GLN:OE1	1:u:486:LYS:HE3	2.06	0.55
1:v:335:SER:H	1:v:435:THR:HB	1.70	0.55
1:x:78:TYR:OH	1:x:105:GLN:NE2	2.39	0.55
1:y:176:GLN:OE1	1:y:486:LYS:HE3	2.06	0.55
1:2:335:SER:H	1:2:435:THR:HB	1.70	0.55
1:5:176:GLN:OE1	1:5:486:LYS:HE3	2.06	0.55
1:C:453:ALA:H	1:C:470:HIS:HE1	1.55	0.55
1:F:176:GLN:OE1	1:F:486:LYS:HE3	2.06	0.55
1:G:44:ASN:ND2	1:G:201:PRO:HB3	2.22	0.55
1:L:176:GLN:OE1	1:L:486:LYS:HE3	2.06	0.55
1:M:453:ALA:H	1:M:470:HIS:HE1	1.55	0.55
1:O:283:SER:O	1:O:287:THR:OG1	2.25	0.55
1:P:176:GLN:OE1	1:P:486:LYS:HE3	2.06	0.55
1:R:176:GLN:OE1	1:R:486:LYS:HE3	2.06	0.55
1:U:78:TYR:OH	1:U:105:GLN:NE2	2.39	0.55
1:V:44:ASN:ND2	1:V:201:PRO:HB3	2.22	0.55
1:Z:44:ASN:ND2	1:Z:201:PRO:HB3	2.22	0.55
1:c:44:ASN:ND2	1:c:201:PRO:HB3	2.22	0.55
1:g:453:ALA:H	1:g:470:HIS:HE1	1.55	0.55
1:h:453:ALA:H	1:h:470:HIS:HE1	1.55	0.55
1:i:283:SER:O	1:i:287:THR:OG1	2.25	0.55
1:j:78:TYR:OH	1:j:105:GLN:NE2	2.39	0.55
1:p:44:ASN:ND2	1:p:201:PRO:HB3	2.22	0.55
1:q:176:GLN:OE1	1:q:486:LYS:HE3	2.06	0.55
1:8:335:SER:H	1:8:435:THR:HB	1.70	0.55
1:H:44:ASN:ND2	1:H:201:PRO:HB3	2.22	0.55
1:J:335:SER:H	1:J:435:THR:HB	1.70	0.55
1:M:283:SER:O	1:M:287:THR:OG1	2.25	0.55
1:N:283:SER:O	1:N:287:THR:OG1	2.25	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:O:44:ASN:ND2	1:O:201:PRO:HB3	2.22	0.55
1:U:453:ALA:H	1:U:470:HIS:HE1	1.55	0.55
1:b:44:ASN:ND2	1:b:201:PRO:HB3	2.22	0.55
1:b:78:TYR:OH	1:b:105:GLN:NE2	2.39	0.55
1:f:44:ASN:ND2	1:f:201:PRO:HB3	2.22	0.55
1:f:78:TYR:OH	1:f:105:GLN:NE2	2.39	0.55
1:l:44:ASN:ND2	1:l:201:PRO:HB3	2.22	0.55
1:l:283:SER:O	1:l:287:THR:OG1	2.25	0.55
1:n:78:TYR:OH	1:n:105:GLN:NE2	2.39	0.55
1:s:78:TYR:OH	1:s:105:GLN:NE2	2.39	0.55
1:s:453:ALA:H	1:s:470:HIS:HE1	1.55	0.55
1:t:44:ASN:ND2	1:t:201:PRO:HB3	2.22	0.55
1:4:176:GLN:OE1	1:4:486:LYS:HE3	2.06	0.55
1:8:44:ASN:ND2	1:8:201:PRO:HB3	2.22	0.55
1:E:78:TYR:OH	1:E:105:GLN:NE2	2.39	0.55
1:F:44:ASN:ND2	1:F:201:PRO:HB3	2.22	0.55
1:F:78:TYR:OH	1:F:105:GLN:NE2	2.39	0.55
1:H:453:ALA:H	1:H:470:HIS:HE1	1.55	0.55
1:J:44:ASN:ND2	1:J:201:PRO:HB3	2.22	0.55
1:K:176:GLN:OE1	1:K:486:LYS:HE3	2.06	0.55
1:L:44:ASN:ND2	1:L:201:PRO:HB3	2.22	0.55
1:S:335:SER:H	1:S:435:THR:HB	1.70	0.55
1:U:44:ASN:ND2	1:U:201:PRO:HB3	2.22	0.55
1:Z:335:SER:H	1:Z:435:THR:HB	1.70	0.55
1:d:78:TYR:OH	1:d:105:GLN:NE2	2.39	0.55
1:h:283:SER:O	1:h:287:THR:OG1	2.25	0.55
1:l:78:TYR:OH	1:l:105:GLN:NE2	2.39	0.55
1:q:340:ARG:NH2	1:s:431:ASP:OD2	2.39	0.55
1:s:44:ASN:ND2	1:s:201:PRO:HB3	2.22	0.55
1:w:78:TYR:OH	1:w:105:GLN:NE2	2.39	0.55
1:z:465:PRO:HG3	1:2:441:ALA:HB2	1.89	0.55
1:D:283:SER:O	1:D:287:THR:OG1	2.25	0.55
1:E:453:ALA:H	1:E:470:HIS:HE1	1.55	0.55
1:F:453:ALA:H	1:F:470:HIS:HE1	1.55	0.55
1:O:78:TYR:OH	1:O:105:GLN:NE2	2.39	0.55
1:R:340:ARG:NH2	1:U:431:ASP:OD2	2.39	0.55
1:V:78:TYR:OH	1:V:105:GLN:NE2	2.39	0.55
1:W:276:GLN:HE21	1:W:562:ARG:HH12	1.52	0.55
1:Y:73:GLU:OE2	1:Y:504:ARG:NH2	2.38	0.55
1:Z:78:TYR:OH	1:Z:105:GLN:NE2	2.39	0.55
1:i:44:ASN:ND2	1:i:201:PRO:HB3	2.22	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:k:283:SER:O	1:k:287:THR:OG1	2.25	0.55
1:o:453:ALA:H	1:o:470:HIS:HE1	1.55	0.55
1:r:44:ASN:ND2	1:r:201:PRO:HB3	2.22	0.55
1:y:78:TYR:OH	1:y:105:GLN:NE2	2.39	0.55
1:y:453:ALA:H	1:y:470:HIS:HE1	1.55	0.55
1:z:44:ASN:ND2	1:z:201:PRO:HB3	2.22	0.55
1:z:78:TYR:OH	1:z:105:GLN:NE2	2.39	0.55
1:z:176:GLN:OE1	1:z:486:LYS:HE3	2.06	0.55
1:5:44:ASN:ND2	1:5:201:PRO:HB3	2.22	0.55
1:5:453:ALA:H	1:5:470:HIS:HE1	1.55	0.55
1:8:78:TYR:OH	1:8:105:GLN:NE2	2.39	0.55
1:A:206:LYS:HG3	1:E:495:LEU:HD23	1.89	0.55
1:L:78:TYR:OH	1:L:105:GLN:NE2	2.39	0.55
1:M:78:TYR:OH	1:M:105:GLN:NE2	2.39	0.55
1:S:44:ASN:ND2	1:S:201:PRO:HB3	2.22	0.55
1:X:453:ALA:H	1:X:470:HIS:HE1	1.55	0.55
1:g:335:SER:H	1:g:435:THR:HB	1.70	0.55
1:m:176:GLN:OE1	1:m:486:LYS:HE3	2.06	0.55
1:m:376:LYS:HE2	1:m:393:GLN:HB3	1.87	0.55
1:r:335:SER:H	1:r:435:THR:HB	1.70	0.55
1:u:78:TYR:OH	1:u:105:GLN:NE2	2.39	0.55
1:w:453:ALA:H	1:w:470:HIS:HE1	1.55	0.55
1:y:44:ASN:ND2	1:y:201:PRO:HB3	2.22	0.55
1:1:176:GLN:OE1	1:1:486:LYS:HE3	2.06	0.55
1:2:44:ASN:ND2	1:2:201:PRO:HB3	2.22	0.55
1:3:453:ALA:H	1:3:470:HIS:HE1	1.55	0.55
1:6:44:ASN:ND2	1:6:201:PRO:HB3	2.22	0.55
1:B:176:GLN:OE1	1:B:486:LYS:HE3	2.06	0.55
1:I:78:TYR:OH	1:I:105:GLN:NE2	2.39	0.55
1:N:44:ASN:ND2	1:N:201:PRO:HB3	2.22	0.55
1:P:283:SER:O	1:P:287:THR:OG1	2.25	0.55
1:Q:453:ALA:H	1:Q:470:HIS:HE1	1.55	0.55
1:S:376:LYS:HD3	1:S:395:TRP:HB2	1.89	0.55
1:W:44:ASN:ND2	1:W:201:PRO:HB3	2.22	0.55
1:W:78:TYR:OH	1:W:105:GLN:NE2	2.39	0.55
1:X:44:ASN:ND2	1:X:201:PRO:HB3	2.22	0.55
1:a:453:ALA:H	1:a:470:HIS:HE1	1.55	0.55
1:o:44:ASN:ND2	1:o:201:PRO:HB3	2.22	0.55
1:r:376:LYS:HD3	1:r:395:TRP:HB2	1.89	0.55
1:x:453:ALA:H	1:x:470:HIS:HE1	1.55	0.55
1:z:495:LEU:HD23	1:4:206:LYS:HG3	1.89	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:2:453:ALA:H	1:2:470:HIS:HE1	1.55	0.55
1:6:276:GLN:HE21	1:6:562:ARG:HH12	1.52	0.55
1:7:73:GLU:OE2	1:7:504:ARG:NH2	2.38	0.55
1:A:78:TYR:OH	1:A:105:GLN:NE2	2.39	0.55
1:F:206:LYS:HG3	1:G:495:LEU:HD23	1.89	0.55
1:K:44:ASN:ND2	1:K:201:PRO:HB3	2.22	0.55
1:K:206:LYS:HG3	1:L:495:LEU:HD23	1.89	0.55
1:L:376:LYS:HE2	1:L:393:GLN:HB3	1.87	0.55
1:R:441:ALA:HB2	1:S:465:PRO:HG3	1.89	0.55
1:T:78:TYR:OH	1:T:105:GLN:NE2	2.39	0.55
1:T:176:GLN:OE1	1:T:486:LYS:HE3	2.06	0.55
1:T:376:LYS:HE2	1:T:393:GLN:HB3	1.87	0.55
1:X:206:LYS:HG3	1:Y:495:LEU:HD23	1.89	0.55
1:Y:376:LYS:HD3	1:Y:395:TRP:HB2	1.89	0.55
1:e:176:GLN:OE1	1:e:486:LYS:HE3	2.06	0.55
1:h:44:ASN:ND2	1:h:201:PRO:HB3	2.22	0.55
1:h:78:TYR:OH	1:h:105:GLN:NE2	2.39	0.55
1:j:206:LYS:HG3	1:x:495:LEU:HD23	1.89	0.55
1:n:32:GLY:HA2	1:n:37:HIS:HB3	1.89	0.55
1:o:206:LYS:HG3	1:7:495:LEU:HD23	1.89	0.55
1:p:78:TYR:OH	1:p:105:GLN:NE2	2.39	0.55
1:u:44:ASN:ND2	1:u:201:PRO:HB3	2.22	0.55
1:v:206:LYS:HG3	1:w:495:LEU:HD23	1.89	0.55
1:w:32:GLY:HA2	1:w:37:HIS:HB3	1.89	0.55
1:z:376:LYS:HE2	1:z:393:GLN:HB3	1.87	0.55
1:4:453:ALA:H	1:4:470:HIS:HE1	1.55	0.55
1:6:78:TYR:OH	1:6:105:GLN:NE2	2.39	0.55
1:7:44:ASN:ND2	1:7:201:PRO:HB3	2.22	0.55
1:7:376:LYS:HD3	1:7:395:TRP:HB2	1.89	0.55
1:C:335:SER:H	1:C:435:THR:HB	1.70	0.54
1:D:376:LYS:HD3	1:D:395:TRP:HB2	1.89	0.54
1:E:32:GLY:HA2	1:E:37:HIS:HB3	1.89	0.54
1:F:495:LEU:HD23	1:R:206:LYS:HG3	1.89	0.54
1:I:44:ASN:ND2	1:I:201:PRO:HB3	2.22	0.54
1:J:453:ALA:H	1:J:470:HIS:HE1	1.55	0.54
1:P:206:LYS:HG3	1:Q:495:LEU:HD23	1.90	0.54
1:Q:376:LYS:HD3	1:Q:395:TRP:HB2	1.89	0.54
1:R:44:ASN:ND2	1:R:201:PRO:HB3	2.22	0.54
1:b:32:GLY:HA2	1:b:37:HIS:HB3	1.89	0.54
1:c:176:GLN:OE1	1:c:486:LYS:HE3	2.06	0.54
1:d:32:GLY:HA2	1:d:37:HIS:HB3	1.89	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:f:32:GLY:HA2	1:f:37:HIS:HB3	1.89	0.54
1:j:283:SER:O	1:j:287:THR:OG1	2.25	0.54
1:k:32:GLY:HA2	1:k:37:HIS:HB3	1.89	0.54
1:k:376:LYS:HD3	1:k:395:TRP:HB2	1.89	0.54
1:m:78:TYR:OH	1:m:105:GLN:NE2	2.39	0.54
1:m:453:ALA:H	1:m:470:HIS:HE1	1.55	0.54
1:q:44:ASN:ND2	1:q:201:PRO:HB3	2.22	0.54
1:q:206:LYS:HG3	1:y:495:LEU:HD23	1.89	0.54
1:t:495:LEU:HD23	1:y:206:LYS:HG3	1.89	0.54
1:v:78:TYR:OH	1:v:105:GLN:NE2	2.39	0.54
1:x:44:ASN:ND2	1:x:201:PRO:HB3	2.22	0.54
1:x:376:LYS:HD3	1:x:395:TRP:HB2	1.89	0.54
1:B:441:ALA:HB2	1:J:465:PRO:HG3	1.89	0.54
1:D:32:GLY:HA2	1:D:37:HIS:HB3	1.89	0.54
1:E:44:ASN:ND2	1:E:201:PRO:HB3	2.22	0.54
1:H:32:GLY:HA2	1:H:37:HIS:HB3	1.89	0.54
1:K:453:ALA:H	1:K:470:HIS:HE1	1.55	0.54
1:L:376:LYS:HD3	1:L:395:TRP:HB2	1.90	0.54
1:M:44:ASN:ND2	1:M:201:PRO:HB3	2.22	0.54
1:M:206:LYS:HG3	1:N:495:LEU:HD23	1.89	0.54
1:O:376:LYS:HD3	1:O:395:TRP:HB2	1.90	0.54
1:P:376:LYS:HD3	1:P:395:TRP:HB2	1.89	0.54
1:R:32:GLY:HA2	1:R:37:HIS:HB3	1.89	0.54
1:T:453:ALA:H	1:T:470:HIS:HE1	1.55	0.54
1:Y:44:ASN:ND2	1:Y:201:PRO:HB3	2.22	0.54
1:h:206:LYS:HG3	1:i:495:LEU:HD23	1.89	0.54
1:j:376:LYS:HD3	1:j:395:TRP:HB2	1.89	0.54
1:m:44:ASN:ND2	1:m:201:PRO:HB3	2.22	0.54
1:q:32:GLY:HA2	1:q:37:HIS:HB3	1.89	0.54
1:q:376:LYS:HD3	1:q:395:TRP:HB2	1.89	0.54
1:q:441:ALA:HB2	1:r:465:PRO:HG3	1.89	0.54
1:s:376:LYS:HD3	1:s:395:TRP:HB2	1.90	0.54
1:v:32:GLY:HA2	1:v:37:HIS:HB3	1.89	0.54
1:z:376:LYS:HD3	1:z:395:TRP:HB2	1.89	0.54
1:4:44:ASN:ND2	1:4:201:PRO:HB3	2.22	0.54
1:A:32:GLY:HA2	1:A:37:HIS:HB3	1.89	0.54
1:A:495:LEU:HD23	1:B:206:LYS:HG3	1.89	0.54
1:G:32:GLY:HA2	1:G:37:HIS:HB3	1.89	0.54
1:J:206:LYS:HG3	1:a:495:LEU:HD23	1.89	0.54
1:M:495:LEU:HD23	1:c:206:LYS:HG3	1.89	0.54
1:P:453:ALA:H	1:P:470:HIS:HE1	1.55	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:R:376:LYS:HD3	1:R:395:TRP:HB2	1.89	0.54
1:T:44:ASN:ND2	1:T:201:PRO:HB3	2.22	0.54
1:T:376:LYS:HD3	1:T:395:TRP:HB2	1.89	0.54
1:U:376:LYS:HD3	1:U:395:TRP:HB2	1.89	0.54
1:c:32:GLY:HA2	1:c:37:HIS:HB3	1.89	0.54
1:d:44:ASN:ND2	1:d:201:PRO:HB3	2.22	0.54
1:j:453:ALA:H	1:j:470:HIS:HE1	1.55	0.54
1:l:376:LYS:HD3	1:l:395:TRP:HB2	1.90	0.54
1:n:376:LYS:HD3	1:n:395:TRP:HB2	1.90	0.54
1:q:453:ALA:H	1:q:470:HIS:HE1	1.55	0.54
1:t:32:GLY:HA2	1:t:37:HIS:HB3	1.89	0.54
1:z:340:ARG:NH2	1:2:431:ASP:OD2	2.40	0.54
1:3:78:TYR:OH	1:3:105:GLN:NE2	2.39	0.54
1:5:32:GLY:HA2	1:5:37:HIS:HB3	1.89	0.54
1:D:44:ASN:ND2	1:D:201:PRO:HB3	2.22	0.54
1:D:453:ALA:H	1:D:470:HIS:HE1	1.55	0.54
1:E:376:LYS:HD3	1:E:395:TRP:HB2	1.89	0.54
1:K:495:LEU:HD23	1:7:206:LYS:HG3	1.89	0.54
1:Q:44:ASN:ND2	1:Q:201:PRO:HB3	2.22	0.54
1:Y:206:LYS:HG3	1:4:495:LEU:HD23	1.89	0.54
1:a:44:ASN:ND2	1:a:201:PRO:HB3	2.22	0.54
1:d:376:LYS:HD3	1:d:395:TRP:HB2	1.90	0.54
1:e:32:GLY:HA2	1:e:37:HIS:HB3	1.89	0.54
1:e:206:LYS:HG3	1:h:495:LEU:HD23	1.89	0.54
1:m:376:LYS:HD3	1:m:395:TRP:HB2	1.89	0.54
1:n:44:ASN:ND2	1:n:201:PRO:HB3	2.22	0.54
1:u:280:HIS:HD2	1:u:443:ASP:OD2	1.91	0.54
1:w:44:ASN:ND2	1:w:201:PRO:HB3	2.22	0.54
1:x:32:GLY:HA2	1:x:37:HIS:HB3	1.89	0.54
1:1:32:GLY:HA2	1:1:37:HIS:HB3	1.89	0.54
1:B:32:GLY:HA2	1:B:37:HIS:HB3	1.89	0.54
1:G:280:HIS:HD2	1:G:443:ASP:OD2	1.91	0.54
1:I:280:HIS:HD2	1:I:443:ASP:OD2	1.91	0.54
1:N:206:LYS:HG3	1:m:495:LEU:HD23	1.89	0.54
1:O:32:GLY:HA2	1:O:37:HIS:HB3	1.89	0.54
1:Q:32:GLY:HA2	1:Q:37:HIS:HB3	1.89	0.54
1:Q:409:PRO:HG3	1:Q:432:TYR:CZ	2.43	0.54
1:R:453:ALA:H	1:R:470:HIS:HE1	1.55	0.54
1:S:283:SER:O	1:S:287:THR:OG1	2.25	0.54
1:a:78:TYR:OH	1:a:105:GLN:NE2	2.39	0.54
1:j:495:LEU:HD23	1:l:206:LYS:HG3	1.90	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:k:44:ASN:ND2	1:k:201:PRO:HB3	2.22	0.54
1:k:453:ALA:H	1:k:470:HIS:HE1	1.55	0.54
1:l:32:GLY:HA2	1:l:37:HIS:HB3	1.89	0.54
1:m:206:LYS:HG3	1:s:495:LEU:HD23	1.89	0.54
1:r:283:SER:O	1:r:287:THR:OG1	2.25	0.54
1:t:280:HIS:HD2	1:t:443:ASP:OD2	1.91	0.54
1:w:376:LYS:HD3	1:w:395:TRP:HB2	1.89	0.54
1:x:409:PRO:HG3	1:x:432:TYR:CZ	2.43	0.54
1:y:376:LYS:HD3	1:y:395:TRP:HB2	1.89	0.54
1:1:441:ALA:HB2	1:2:465:PRO:HG3	1.90	0.54
1:2:206:LYS:HG3	1:3:495:LEU:HD23	1.89	0.54
1:6:32:GLY:HA2	1:6:37:HIS:HB3	1.89	0.54
1:B:280:HIS:HD2	1:B:443:ASP:OD2	1.91	0.54
1:F:376:LYS:HD3	1:F:395:TRP:HB2	1.89	0.54
1:H:280:HIS:HD2	1:H:443:ASP:OD2	1.91	0.54
1:I:32:GLY:HA2	1:I:37:HIS:HB3	1.89	0.54
1:M:280:HIS:HD2	1:M:443:ASP:OD2	1.91	0.54
1:M:409:PRO:HG3	1:M:432:TYR:CZ	2.43	0.54
1:O:206:LYS:HG3	1:P:495:LEU:HD23	1.90	0.54
1:T:206:LYS:HG3	1:U:495:LEU:HD23	1.89	0.54
1:T:495:LEU:HD23	1:i:206:LYS:HG3	1.89	0.54
1:V:409:PRO:HG3	1:V:432:TYR:CZ	2.43	0.54
1:W:32:GLY:HA2	1:W:37:HIS:HB3	1.89	0.54
1:f:441:ALA:HB2	1:h:465:PRO:HG3	1.90	0.54
1:f:453:ALA:H	1:f:470:HIS:HE1	1.55	0.54
1:i:453:ALA:H	1:i:470:HIS:HE1	1.55	0.54
1:p:409:PRO:HG3	1:p:432:TYR:CZ	2.43	0.54
1:u:32:GLY:HA2	1:u:37:HIS:HB3	1.89	0.54
1:1:453:ALA:H	1:1:470:HIS:HE1	1.55	0.54
1:3:44:ASN:ND2	1:3:201:PRO:HB3	2.22	0.54
1:5:280:HIS:HD2	1:5:443:ASP:OD2	1.91	0.54
1:A:283:SER:O	1:A:287:THR:OG1	2.25	0.54
1:A:376:LYS:HD3	1:A:395:TRP:HB2	1.89	0.54
1:B:453:ALA:H	1:B:470:HIS:HE1	1.55	0.54
1:C:409:PRO:HG3	1:C:432:TYR:CZ	2.43	0.54
1:F:280:HIS:HD2	1:F:443:ASP:OD2	1.91	0.54
1:K:376:LYS:HD3	1:K:395:TRP:HB2	1.89	0.54
1:M:465:PRO:HG3	1:b:441:ALA:HB2	1.90	0.54
1:O:409:PRO:HG3	1:O:432:TYR:CZ	2.43	0.54
1:P:44:ASN:ND2	1:P:201:PRO:HB3	2.22	0.54
1:Q:280:HIS:HD2	1:Q:443:ASP:OD2	1.91	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:V:32:GLY:HA2	1:V:37:HIS:HB3	1.89	0.54
1:X:280:HIS:HD2	1:X:443:ASP:OD2	1.91	0.54
1:d:409:PRO:HG3	1:d:432:TYR:CZ	2.43	0.54
1:h:280:HIS:HD2	1:h:443:ASP:OD2	1.91	0.54
1:h:409:PRO:HG3	1:h:432:TYR:CZ	2.43	0.54
1:n:280:HIS:HD2	1:n:443:ASP:OD2	1.91	0.54
1:n:409:PRO:HG3	1:n:432:TYR:CZ	2.43	0.54
1:v:283:SER:O	1:v:287:THR:OG1	2.25	0.54
1:x:280:HIS:HD2	1:x:443:ASP:OD2	1.91	0.54
1:y:280:HIS:HD2	1:y:443:ASP:OD2	1.91	0.54
1:1:280:HIS:HD2	1:1:443:ASP:OD2	1.91	0.54
1:6:280:HIS:HD2	1:6:443:ASP:OD2	1.91	0.54
1:A:44:ASN:ND2	1:A:201:PRO:HB3	2.22	0.54
1:A:465:PRO:HG3	1:I:441:ALA:HB2	1.90	0.54
1:N:453:ALA:H	1:N:470:HIS:HE1	1.55	0.54
1:W:280:HIS:HD2	1:W:443:ASP:OD2	1.91	0.54
1:X:495:LEU:HD23	1:f:206:LYS:HG3	1.89	0.54
1:Y:409:PRO:HG3	1:Y:432:TYR:CZ	2.43	0.54
1:Z:376:LYS:HD3	1:Z:395:TRP:HB2	1.90	0.54
1:b:206:LYS:HG3	1:o:495:LEU:HD23	1.89	0.54
1:b:280:HIS:HD2	1:b:443:ASP:OD2	1.91	0.54
1:c:409:PRO:HG3	1:c:432:TYR:CZ	2.43	0.54
1:d:280:HIS:HD2	1:d:443:ASP:OD2	1.91	0.54
1:e:409:PRO:HG3	1:e:432:TYR:CZ	2.43	0.54
1:g:409:PRO:HG3	1:g:432:TYR:CZ	2.43	0.54
1:l:409:PRO:HG3	1:l:432:TYR:CZ	2.43	0.54
1:o:280:HIS:HD2	1:o:443:ASP:OD2	1.91	0.54
1:p:32:GLY:HA2	1:p:37:HIS:HB3	1.89	0.54
1:q:465:PRO:HG3	1:s:441:ALA:HB2	1.90	0.54
1:r:32:GLY:HA2	1:r:37:HIS:HB3	1.89	0.54
1:t:376:LYS:HD3	1:t:395:TRP:HB2	1.89	0.54
1:v:376:LYS:HD3	1:v:395:TRP:HB2	1.89	0.54
1:v:495:LEU:HD23	1:1:206:LYS:HG3	1.90	0.54
1:y:32:GLY:HA2	1:y:37:HIS:HB3	1.89	0.54
1:4:376:LYS:HD3	1:4:395:TRP:HB2	1.89	0.54
1:8:32:GLY:HA2	1:8:37:HIS:HB3	1.89	0.54
1:8:409:PRO:HG3	1:8:432:TYR:CZ	2.43	0.54
1:F:32:GLY:HA2	1:F:37:HIS:HB3	1.89	0.54
1:F:409:PRO:HG3	1:F:432:TYR:CZ	2.43	0.54
1:G:376:LYS:HD3	1:G:395:TRP:HB2	1.89	0.54
1:R:465:PRO:HG3	1:U:441:ALA:HB2	1.90	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:S:280:HIS:HD2	1:S:443:ASP:OD2	1.91	0.54
1:T:409:PRO:HG3	1:T:432:TYR:CZ	2.43	0.54
1:U:409:PRO:HG3	1:U:432:TYR:CZ	2.43	0.54
1:Z:409:PRO:HG3	1:Z:432:TYR:CZ	2.43	0.54
1:f:280:HIS:HD2	1:f:443:ASP:OD2	1.91	0.54
1:f:409:PRO:HG3	1:f:432:TYR:CZ	2.43	0.54
1:j:44:ASN:ND2	1:j:201:PRO:HB3	2.22	0.54
1:l:453:ALA:H	1:l:470:HIS:HE1	1.55	0.54
1:q:409:PRO:HG3	1:q:432:TYR:CZ	2.43	0.54
1:r:280:HIS:HD2	1:r:443:ASP:OD2	1.91	0.54
1:s:32:GLY:HA2	1:s:37:HIS:HB3	1.89	0.54
1:u:441:ALA:HB2	1:v:465:PRO:HG3	1.90	0.54
1:3:206:LYS:HG3	1:8:495:LEU:HD23	1.89	0.54
1:8:376:LYS:HD3	1:8:395:TRP:HB2	1.90	0.54
1:E:280:HIS:HD2	1:E:443:ASP:OD2	1.91	0.54
1:J:409:PRO:HG3	1:J:432:TYR:CZ	2.43	0.54
1:K:32:GLY:HA2	1:K:37:HIS:HB3	1.89	0.54
1:L:32:GLY:HA2	1:L:37:HIS:HB3	1.89	0.54
1:L:409:PRO:HG3	1:L:432:TYR:CZ	2.43	0.54
1:R:409:PRO:HG3	1:R:432:TYR:CZ	2.43	0.54
1:S:32:GLY:HA2	1:S:37:HIS:HB3	1.89	0.54
1:S:409:PRO:HG3	1:S:432:TYR:CZ	2.43	0.54
1:U:32:GLY:HA2	1:U:37:HIS:HB3	1.89	0.54
1:X:465:PRO:HG3	1:e:441:ALA:HB2	1.90	0.54
1:Y:32:GLY:HA2	1:Y:37:HIS:HB3	1.89	0.54
1:Z:32:GLY:HA2	1:Z:37:HIS:HB3	1.89	0.54
1:b:453:ALA:H	1:b:470:HIS:HE1	1.55	0.54
1:k:495:LEU:HD23	1:w:206:LYS:HG3	1.90	0.54
1:r:495:LEU:HD23	1:x:206:LYS:HG3	1.89	0.54
1:s:409:PRO:HG3	1:s:432:TYR:CZ	2.43	0.54
1:v:44:ASN:ND2	1:v:201:PRO:HB3	2.22	0.54
1:y:409:PRO:HG3	1:y:432:TYR:CZ	2.43	0.54
1:z:409:PRO:HG3	1:z:432:TYR:CZ	2.43	0.54
1:7:409:PRO:HG3	1:7:432:TYR:CZ	2.43	0.54
1:B:409:PRO:HG3	1:B:432:TYR:CZ	2.43	0.53
1:E:409:PRO:HG3	1:E:432:TYR:CZ	2.43	0.53
1:H:376:LYS:HD3	1:H:395:TRP:HB2	1.89	0.53
1:I:453:ALA:H	1:I:470:HIS:HE1	1.55	0.53
1:K:409:PRO:HG3	1:K:432:TYR:CZ	2.43	0.53
1:R:311:GLY:HA2	1:S:194:LEU:HD13	1.90	0.53
1:V:280:HIS:HD2	1:V:443:ASP:OD2	1.91	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Y:280:HIS:HD2	1:Y:443:ASP:OD2	1.91	0.53
1:Z:495:LEU:HD23	1:a:206:LYS:HG3	1.89	0.53
1:b:409:PRO:HG3	1:b:432:TYR:CZ	2.43	0.53
1:c:453:ALA:H	1:c:470:HIS:HE1	1.55	0.53
1:m:409:PRO:HG3	1:m:432:TYR:CZ	2.43	0.53
1:q:311:GLY:HA2	1:r:194:LEU:HD13	1.90	0.53
1:r:409:PRO:HG3	1:r:432:TYR:CZ	2.43	0.53
1:u:453:ALA:H	1:u:470:HIS:HE1	1.55	0.53
1:w:280:HIS:HD2	1:w:443:ASP:OD2	1.91	0.53
1:w:409:PRO:HG3	1:w:432:TYR:CZ	2.43	0.53
1:z:32:GLY:HA2	1:z:37:HIS:HB3	1.89	0.53
1:3:376:LYS:HD3	1:3:395:TRP:HB2	1.89	0.53
1:4:32:GLY:HA2	1:4:37:HIS:HB3	1.89	0.53
1:5:376:LYS:HD3	1:5:395:TRP:HB2	1.89	0.53
1:7:280:HIS:HD2	1:7:443:ASP:OD2	1.91	0.53
1:D:495:LEU:HD23	1:E:206:LYS:HG3	1.90	0.53
1:J:441:ALA:HB2	1:L:465:PRO:HG3	1.91	0.53
1:L:453:ALA:H	1:L:470:HIS:HE1	1.55	0.53
1:M:376:LYS:HD3	1:M:395:TRP:HB2	1.89	0.53
1:N:376:LYS:HD3	1:N:395:TRP:HB2	1.89	0.53
1:N:409:PRO:HG3	1:N:432:TYR:CZ	2.43	0.53
1:O:453:ALA:H	1:O:470:HIS:HE1	1.55	0.53
1:Q:206:LYS:HG3	1:S:495:LEU:HD23	1.89	0.53
1:U:280:HIS:HD2	1:U:443:ASP:OD2	1.91	0.53
1:V:453:ALA:H	1:V:470:HIS:HE1	1.55	0.53
1:W:409:PRO:HG3	1:W:432:TYR:CZ	2.43	0.53
1:a:318:SER:HB2	1:8:376:LYS:HZ1	1.73	0.53
1:c:441:ALA:HB2	1:o:465:PRO:HG3	1.90	0.53
1:e:453:ALA:H	1:e:470:HIS:HE1	1.55	0.53
1:i:376:LYS:HD3	1:i:395:TRP:HB2	1.89	0.53
1:i:409:PRO:HG3	1:i:432:TYR:CZ	2.43	0.53
1:p:453:ALA:H	1:p:470:HIS:HE1	1.55	0.53
1:t:318:SER:HB2	1:u:376:LYS:HZ1	1.73	0.53
1:1:409:PRO:HG3	1:1:432:TYR:CZ	2.43	0.53
1:2:409:PRO:HG3	1:2:432:TYR:CZ	2.43	0.53
1:4:409:PRO:HG3	1:4:432:TYR:CZ	2.43	0.53
1:6:409:PRO:HG3	1:6:432:TYR:CZ	2.43	0.53
1:C:32:GLY:HA2	1:C:37:HIS:HB3	1.89	0.53
1:G:318:SER:HB2	1:I:376:LYS:HZ1	1.73	0.53
1:H:495:LEU:HD23	1:Z:206:LYS:HG3	1.90	0.53
1:Y:453:ALA:H	1:Y:470:HIS:HE1	1.55	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Z:376:LYS:HZ1	1:3:318:SER:HB2	1.73	0.53
1:e:280:HIS:HD2	1:e:443:ASP:OD2	1.91	0.53
1:k:409:PRO:HG3	1:k:432:TYR:CZ	2.43	0.53
1:p:280:HIS:HD2	1:p:443:ASP:OD2	1.91	0.53
1:s:280:HIS:HD2	1:s:443:ASP:OD2	1.91	0.53
1:z:453:ALA:H	1:z:470:HIS:HE1	1.55	0.53
1:7:32:GLY:HA2	1:7:37:HIS:HB3	1.90	0.53
1:A:409:PRO:HG3	1:A:432:TYR:CZ	2.43	0.53
1:C:376:LYS:HD3	1:C:395:TRP:HB2	1.89	0.53
1:D:409:PRO:HG3	1:D:432:TYR:CZ	2.43	0.53
1:I:206:LYS:HG3	1:J:495:LEU:HD23	1.89	0.53
1:a:376:LYS:HD3	1:a:395:TRP:HB2	1.89	0.53
1:f:495:LEU:HD23	1:z:206:LYS:HG3	1.90	0.53
1:g:32:GLY:HA2	1:g:37:HIS:HB3	1.89	0.53
1:g:495:LEU:HD23	1:k:206:LYS:HG3	1.89	0.53
1:h:376:LYS:HD3	1:h:395:TRP:HB2	1.89	0.53
1:k:280:HIS:HD2	1:k:443:ASP:OD2	1.91	0.53
1:l:495:LEU:HD23	1:n:206:LYS:HG3	1.89	0.53
1:n:495:LEU:HD23	1:r:206:LYS:HG3	1.89	0.53
1:u:206:LYS:HG3	1:2:495:LEU:HD23	1.89	0.53
1:7:453:ALA:H	1:7:470:HIS:HE1	1.55	0.53
1:A:453:ALA:H	1:A:470:HIS:HE1	1.55	0.53
1:B:311:GLY:HA2	1:J:194:LEU:HD13	1.90	0.53
1:B:376:LYS:HD3	1:B:395:TRP:HB2	1.89	0.53
1:C:280:HIS:HD2	1:C:443:ASP:OD2	1.91	0.53
1:C:495:LEU:HD23	1:D:206:LYS:HG3	1.89	0.53
1:D:280:HIS:HD2	1:D:443:ASP:OD2	1.91	0.53
1:E:441:ALA:HB2	1:Q:465:PRO:HG3	1.91	0.53
1:F:335:SER:HB3	1:F:435:THR:OG1	2.09	0.53
1:N:280:HIS:HD2	1:N:443:ASP:OD2	1.91	0.53
1:S:206:LYS:HG3	1:d:495:LEU:HD23	1.89	0.53
1:X:283:SER:O	1:X:287:THR:OG1	2.25	0.53
1:a:409:PRO:HG3	1:a:432:TYR:CZ	2.43	0.53
1:c:280:HIS:HD2	1:c:443:ASP:OD2	1.91	0.53
1:e:335:SER:HB3	1:e:435:THR:OG1	2.09	0.53
1:g:376:LYS:HD3	1:g:395:TRP:HB2	1.90	0.53
1:o:283:SER:O	1:o:287:THR:OG1	2.25	0.53
1:v:409:PRO:HG3	1:v:432:TYR:CZ	2.43	0.53
1:w:441:ALA:HB2	1:x:465:PRO:HG3	1.90	0.53
1:2:32:GLY:HA2	1:2:37:HIS:HB3	1.89	0.53
1:5:409:PRO:HG3	1:5:432:TYR:CZ	2.43	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:5:495:LEU:HD23	1:8:206:LYS:HG3	1.90	0.53
1:A:441:ALA:HB2	1:G:465:PRO:HG3	1.91	0.53
1:B:335:SER:HB3	1:B:435:THR:OG1	2.09	0.53
1:C:335:SER:HB3	1:C:435:THR:OG1	2.09	0.53
1:G:540:GLY:C	1:G:542:GLU:H	2.17	0.53
1:H:409:PRO:HG3	1:H:432:TYR:CZ	2.43	0.53
1:J:376:LYS:HD3	1:J:395:TRP:HB2	1.89	0.53
1:N:32:GLY:HA2	1:N:37:HIS:HB3	1.89	0.53
1:O:280:HIS:HD2	1:O:443:ASP:OD2	1.91	0.53
1:P:32:GLY:HA2	1:P:37:HIS:HB3	1.89	0.53
1:P:335:SER:HB3	1:P:435:THR:OG1	2.09	0.53
1:U:335:SER:HB3	1:U:435:THR:OG1	2.09	0.53
1:V:495:LEU:HD23	1:W:206:LYS:HG3	1.89	0.53
1:W:441:ALA:HB2	1:Y:465:PRO:HG3	1.91	0.53
1:X:32:GLY:HA2	1:X:37:HIS:HB3	1.89	0.53
1:X:335:SER:HB3	1:X:435:THR:OG1	2.09	0.53
1:X:376:LYS:HD3	1:X:395:TRP:HB2	1.89	0.53
1:Y:540:GLY:C	1:Y:542:GLU:H	2.17	0.53
1:c:335:SER:HB3	1:c:435:THR:OG1	2.09	0.53
1:c:540:GLY:C	1:c:542:GLU:H	2.17	0.53
1:g:335:SER:HB3	1:g:435:THR:OG1	2.09	0.53
1:s:335:SER:HB3	1:s:435:THR:OG1	2.09	0.53
1:t:465:PRO:HG3	1:v:441:ALA:HB2	1.91	0.53
1:t:540:GLY:C	1:t:542:GLU:H	2.17	0.53
1:v:453:ALA:H	1:v:470:HIS:HE1	1.55	0.53
1:y:335:SER:HB3	1:y:435:THR:OG1	2.09	0.53
1:z:280:HIS:HD2	1:z:443:ASP:OD2	1.91	0.53
1:1:311:GLY:HA2	1:2:194:LEU:HD13	1.91	0.53
1:1:376:LYS:HD3	1:1:395:TRP:HB2	1.90	0.53
1:2:283:SER:O	1:2:287:THR:OG1	2.25	0.53
1:6:453:ALA:H	1:6:470:HIS:HE1	1.55	0.53
1:C:441:ALA:HB2	1:b:465:PRO:HG3	1.90	0.53
1:D:465:PRO:HG3	1:P:441:ALA:HB2	1.91	0.53
1:G:409:PRO:HG3	1:G:432:TYR:CZ	2.43	0.53
1:H:206:LYS:HG3	1:I:495:LEU:HD23	1.89	0.53
1:J:32:GLY:HA2	1:J:37:HIS:HB3	1.89	0.53
1:K:441:ALA:HB2	1:a:465:PRO:HG3	1.90	0.53
1:L:280:HIS:HD2	1:L:443:ASP:OD2	1.91	0.53
1:S:335:SER:HB3	1:S:435:THR:OG1	2.09	0.53
1:S:441:ALA:HB2	1:U:465:PRO:HG3	1.91	0.53
1:T:280:HIS:HD2	1:T:443:ASP:OD2	1.91	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:V:376:LYS:HD3	1:V:395:TRP:HB2	1.89	0.53
1:W:376:LYS:HD3	1:W:395:TRP:HB2	1.89	0.53
1:W:453:ALA:H	1:W:470:HIS:HE1	1.55	0.53
1:Z:465:PRO:HG3	1:3:441:ALA:HB2	1.90	0.53
1:e:540:GLY:C	1:e:542:GLU:H	2.17	0.53
1:f:335:SER:HB3	1:f:435:THR:OG1	2.09	0.53
1:g:280:HIS:HD2	1:g:443:ASP:OD2	1.91	0.53
1:j:32:GLY:HA2	1:j:37:HIS:HB3	1.89	0.53
1:j:335:SER:HB3	1:j:435:THR:OG1	2.09	0.53
1:l:280:HIS:HD2	1:l:443:ASP:OD2	1.91	0.53
1:m:280:HIS:HD2	1:m:443:ASP:OD2	1.91	0.53
1:o:335:SER:HB3	1:o:435:THR:OG1	2.09	0.53
1:o:376:LYS:HD3	1:o:395:TRP:HB2	1.89	0.53
1:o:409:PRO:HG3	1:o:432:TYR:CZ	2.43	0.53
1:u:495:LEU:HD23	1:5:206:LYS:HG3	1.89	0.53
1:w:465:PRO:HG3	1:y:441:ALA:HB2	1.90	0.53
1:z:311:GLY:HA2	1:1:194:LEU:HD13	1.91	0.53
1:3:280:HIS:HD2	1:3:443:ASP:OD2	1.91	0.53
1:3:409:PRO:HG3	1:3:432:TYR:CZ	2.43	0.53
1:3:465:PRO:HG3	1:4:441:ALA:HB2	1.90	0.53
1:4:280:HIS:HD2	1:4:443:ASP:OD2	1.91	0.53
1:6:376:LYS:HD3	1:6:395:TRP:HB2	1.89	0.53
1:6:441:ALA:HB2	1:7:465:PRO:HG3	1.91	0.53
1:7:540:GLY:C	1:7:542:GLU:H	2.17	0.53
1:8:280:HIS:HD2	1:8:443:ASP:OD2	1.91	0.53
1:D:540:GLY:C	1:D:542:GLU:H	2.17	0.53
1:H:540:GLY:C	1:H:542:GLU:H	2.17	0.53
1:I:376:LYS:HD3	1:I:395:TRP:HB2	1.89	0.53
1:J:283:SER:O	1:J:287:THR:OG1	2.25	0.53
1:O:495:LEU:HD23	1:d:206:LYS:HG3	1.89	0.53
1:O:540:GLY:C	1:O:542:GLU:H	2.17	0.53
1:U:206:LYS:HG3	1:e:495:LEU:HD23	1.90	0.53
1:V:283:SER:O	1:V:287:THR:OG1	2.25	0.53
1:X:409:PRO:HG3	1:X:432:TYR:CZ	2.43	0.53
1:Y:335:SER:HB3	1:Y:435:THR:OG1	2.09	0.53
1:Z:280:HIS:HD2	1:Z:443:ASP:OD2	1.91	0.53
1:Z:453:ALA:H	1:Z:470:HIS:HE1	1.55	0.53
1:a:32:GLY:HA2	1:a:37:HIS:HB3	1.89	0.53
1:c:495:LEU:HD23	1:s:206:LYS:HG3	1.90	0.53
1:d:540:GLY:C	1:d:542:GLU:H	2.17	0.53
1:f:465:PRO:HG3	1:g:441:ALA:HB2	1.90	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:g:540:GLY:C	1:g:542:GLU:H	2.17	0.53
1:h:32:GLY:HA2	1:h:37:HIS:HB3	1.89	0.53
1:i:280:HIS:HD2	1:i:443:ASP:OD2	1.91	0.53
1:k:335:SER:HB3	1:k:435:THR:OG1	2.09	0.53
1:k:540:GLY:C	1:k:542:GLU:H	2.17	0.53
1:l:540:GLY:C	1:l:542:GLU:H	2.17	0.53
1:n:540:GLY:C	1:n:542:GLU:H	2.17	0.53
1:o:32:GLY:HA2	1:o:37:HIS:HB3	1.89	0.53
1:p:283:SER:O	1:p:287:THR:OG1	2.25	0.53
1:p:335:SER:HB3	1:p:435:THR:OG1	2.09	0.53
1:p:376:LYS:HD3	1:p:395:TRP:HB2	1.89	0.53
1:p:495:LEU:HD23	1:6:206:LYS:HG3	1.89	0.53
1:r:335:SER:HB3	1:r:435:THR:OG1	2.09	0.53
1:r:441:ALA:HB2	1:s:465:PRO:HG3	1.91	0.53
1:s:540:GLY:C	1:s:542:GLU:H	2.17	0.53
1:t:409:PRO:HG3	1:t:432:TYR:CZ	2.43	0.53
1:y:540:GLY:C	1:y:542:GLU:H	2.17	0.53
1:1:335:SER:HB3	1:1:435:THR:OG1	2.09	0.53
1:2:376:LYS:HD3	1:2:395:TRP:HB2	1.89	0.53
1:3:32:GLY:HA2	1:3:37:HIS:HB3	1.89	0.53
1:5:335:SER:HB3	1:5:435:THR:OG1	2.09	0.53
1:7:335:SER:HB3	1:7:435:THR:OG1	2.09	0.53
1:A:335:SER:HB3	1:A:435:THR:OG1	2.09	0.53
1:B:540:GLY:C	1:B:542:GLU:H	2.17	0.53
1:C:540:GLY:C	1:C:542:GLU:H	2.17	0.53
1:D:335:SER:HB3	1:D:435:THR:OG1	2.09	0.53
1:E:465:PRO:HG3	1:F:441:ALA:HB2	1.91	0.53
1:F:540:GLY:C	1:F:542:GLU:H	2.17	0.53
1:G:441:ALA:HB2	1:I:465:PRO:HG3	1.90	0.53
1:H:335:SER:HB3	1:H:435:THR:OG1	2.09	0.53
1:J:335:SER:HB3	1:J:435:THR:OG1	2.09	0.53
1:M:32:GLY:HA2	1:M:37:HIS:HB3	1.89	0.53
1:S:540:GLY:C	1:S:542:GLU:H	2.17	0.53
1:U:540:GLY:C	1:U:542:GLU:H	2.17	0.53
1:V:335:SER:HB3	1:V:435:THR:OG1	2.09	0.53
1:W:335:SER:HB3	1:W:435:THR:OG1	2.09	0.53
1:a:280:HIS:HD2	1:a:443:ASP:OD2	1.91	0.53
1:b:335:SER:HB3	1:b:435:THR:OG1	2.09	0.53
1:i:32:GLY:HA2	1:i:37:HIS:HB3	1.90	0.53
1:j:441:ALA:HB2	1:k:465:PRO:HG3	1.91	0.53
1:r:540:GLY:C	1:r:542:GLU:H	2.17	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:u:376:LYS:HD3	1:u:395:TRP:HB2	1.89	0.53
1:u:409:PRO:HG3	1:u:432:TYR:CZ	2.43	0.53
1:w:540:GLY:C	1:w:542:GLU:H	2.17	0.53
1:z:540:GLY:C	1:z:542:GLU:H	2.17	0.53
1:2:335:SER:HB3	1:2:435:THR:OG1	2.09	0.53
1:6:335:SER:HB3	1:6:435:THR:OG1	2.09	0.53
1:8:540:GLY:C	1:8:542:GLU:H	2.17	0.53
1:E:335:SER:HB3	1:E:435:THR:OG1	2.09	0.53
1:E:540:GLY:C	1:E:542:GLU:H	2.17	0.53
1:K:280:HIS:HD2	1:K:443:ASP:OD2	1.91	0.53
1:M:540:GLY:C	1:M:542:GLU:H	2.17	0.53
1:S:453:ALA:H	1:S:470:HIS:HE1	1.55	0.53
1:T:32:GLY:HA2	1:T:37:HIS:HB3	1.89	0.53
1:a:441:ALA:HB2	1:8:465:PRO:HG3	1.91	0.53
1:i:441:ALA:HB2	1:j:465:PRO:HG3	1.91	0.53
1:r:453:ALA:H	1:r:470:HIS:HE1	1.55	0.53
1:v:280:HIS:HD2	1:v:443:ASP:OD2	1.91	0.53
1:v:335:SER:HB3	1:v:435:THR:OG1	2.09	0.53
1:1:540:GLY:C	1:1:542:GLU:H	2.17	0.53
1:5:540:GLY:C	1:5:542:GLU:H	2.17	0.53
1:A:280:HIS:HD2	1:A:443:ASP:OD2	1.91	0.52
1:C:465:PRO:HG3	1:M:441:ALA:HB2	1.91	0.52
1:G:335:SER:HB3	1:G:435:THR:OG1	2.09	0.52
1:I:409:PRO:HG3	1:I:432:TYR:CZ	2.43	0.52
1:L:540:GLY:C	1:L:542:GLU:H	2.17	0.52
1:T:335:SER:HB3	1:T:435:THR:OG1	2.09	0.52
1:Z:335:SER:HB3	1:Z:435:THR:OG1	2.09	0.52
1:Z:540:GLY:C	1:Z:542:GLU:H	2.17	0.52
1:h:540:GLY:C	1:h:542:GLU:H	2.17	0.52
1:m:32:GLY:HA2	1:m:37:HIS:HB3	1.89	0.52
1:t:206:LYS:HG3	1:6:495:LEU:HD23	1.90	0.52
1:t:441:ALA:HB2	1:u:465:PRO:HG3	1.91	0.52
1:8:335:SER:HB3	1:8:435:THR:OG1	2.09	0.52
1:8:453:ALA:H	1:8:470:HIS:HE1	1.55	0.52
1:J:280:HIS:HD2	1:J:443:ASP:OD2	1.91	0.52
1:L:206:LYS:HG3	1:b:495:LEU:HD23	1.90	0.52
1:N:441:ALA:HB2	1:P:465:PRO:HG3	1.91	0.52
1:P:409:PRO:HG3	1:P:432:TYR:CZ	2.43	0.52
1:P:540:GLY:C	1:P:542:GLU:H	2.17	0.52
1:R:283:SER:O	1:R:287:THR:OG1	2.25	0.52
1:T:465:PRO:HG3	1:l:441:ALA:HB2	1.91	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:W:283:SER:O	1:W:287:THR:OG1	2.25	0.52
1:m:335:SER:HB3	1:m:435:THR:OG1	2.09	0.52
1:t:335:SER:HB3	1:t:435:THR:OG1	2.09	0.52
1:w:335:SER:HB3	1:w:435:THR:OG1	2.09	0.52
1:x:441:ALA:HB2	1:y:465:PRO:HG3	1.90	0.52
1:F:465:PRO:HG3	1:Q:441:ALA:HB2	1.90	0.52
1:G:206:LYS:HG3	1:W:495:LEU:HD23	1.90	0.52
1:K:335:SER:HB3	1:K:435:THR:OG1	2.09	0.52
1:R:280:HIS:HD2	1:R:443:ASP:OD2	1.91	0.52
1:a:335:SER:HB3	1:a:435:THR:OG1	2.09	0.52
1:c:465:PRO:HG3	1:p:441:ALA:HB2	1.90	0.52
1:e:376:LYS:HD3	1:e:395:TRP:HB2	1.89	0.52
1:f:376:LYS:HD3	1:f:395:TRP:HB2	1.89	0.52
1:f:540:GLY:C	1:f:542:GLU:H	2.17	0.52
1:g:465:PRO:HG3	1:h:441:ALA:HB2	1.91	0.52
1:j:409:PRO:HG3	1:j:432:TYR:CZ	2.43	0.52
1:m:441:ALA:HB2	1:n:465:PRO:HG3	1.90	0.52
1:n:335:SER:HB3	1:n:435:THR:OG1	2.09	0.52
1:q:280:HIS:HD2	1:q:443:ASP:OD2	1.91	0.52
1:z:441:ALA:HB2	1:l:465:PRO:HG3	1.90	0.52
1:4:540:GLY:C	1:4:542:GLU:H	2.17	0.52
1:6:283:SER:O	1:6:287:THR:OG1	2.25	0.52
1:K:540:GLY:C	1:K:542:GLU:H	2.17	0.52
1:O:441:ALA:HB2	1:m:465:PRO:HG3	1.91	0.52
1:T:441:ALA:HB2	1:d:465:PRO:HG3	1.90	0.52
1:V:441:ALA:HB2	1:e:465:PRO:HG3	1.90	0.52
1:b:540:GLY:C	1:b:542:GLU:H	2.17	0.52
1:c:376:LYS:HD3	1:c:395:TRP:HB2	1.89	0.52
1:p:206:LYS:HG3	1:q:495:LEU:HD23	1.91	0.52
1:q:283:SER:O	1:q:287:THR:OG1	2.25	0.52
1:2:280:HIS:HD2	1:2:443:ASP:OD2	1.91	0.52
1:4:335:SER:HB3	1:4:435:THR:OG1	2.09	0.52
1:M:335:SER:HB3	1:M:435:THR:OG1	2.09	0.52
1:b:376:LYS:HD3	1:b:395:TRP:HB2	1.89	0.52
1:j:280:HIS:HD2	1:j:443:ASP:OD2	1.91	0.52
1:j:540:GLY:C	1:j:542:GLU:H	2.17	0.52
1:q:335:SER:HB3	1:q:435:THR:OG1	2.09	0.52
1:3:335:SER:HB3	1:3:435:THR:OG1	2.09	0.52
1:K:465:PRO:HG3	1:8:441:ALA:HB2	1.91	0.52
1:U:283:SER:O	1:U:287:THR:OG1	2.25	0.52
1:Z:441:ALA:HB2	1:4:465:PRO:HG3	1.91	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:h:335:SER:HB3	1:h:435:THR:OG1	2.09	0.52
1:i:335:SER:HB3	1:i:435:THR:OG1	2.09	0.52
1:u:540:GLY:C	1:u:542:GLU:H	2.17	0.52
1:J:540:GLY:C	1:J:542:GLU:H	2.17	0.52
1:L:335:SER:HB3	1:L:435:THR:OG1	2.09	0.52
1:P:280:HIS:HD2	1:P:443:ASP:OD2	1.91	0.52
1:R:335:SER:HB3	1:R:435:THR:OG1	2.09	0.52
1:c:283:SER:O	1:c:287:THR:OG1	2.25	0.52
1:d:283:SER:O	1:d:287:THR:OG1	2.25	0.52
1:d:335:SER:HB3	1:d:435:THR:OG1	2.09	0.52
1:n:283:SER:O	1:n:287:THR:OG1	2.25	0.52
1:t:283:SER:O	1:t:287:THR:OG1	2.25	0.52
1:N:335:SER:HB3	1:N:435:THR:OG1	2.09	0.52
1:O:335:SER:HB3	1:O:435:THR:OG1	2.09	0.52
1:R:495:LEU:HD23	1:V:206:LYS:HG3	1.92	0.52
1:V:465:PRO:HG3	1:X:441:ALA:HB2	1.91	0.52
1:W:442:VAL:O	1:Y:461:THR:HB	2.10	0.52
1:i:540:GLY:C	1:i:542:GLU:H	2.17	0.52
1:m:540:GLY:C	1:m:542:GLU:H	2.17	0.52
1:s:283:SER:O	1:s:287:THR:OG1	2.25	0.52
1:x:283:SER:O	1:x:287:THR:OG1	2.25	0.52
1:z:335:SER:HB3	1:z:435:THR:OG1	2.09	0.52
1:5:465:PRO:HG3	1:7:441:ALA:HB2	1.91	0.52
1:6:442:VAL:O	1:7:461:THR:HB	2.10	0.52
1:B:283:SER:O	1:B:287:THR:OG1	2.25	0.52
1:B:465:PRO:HG3	1:L:441:ALA:HB2	1.90	0.52
1:D:441:ALA:HB2	1:N:465:PRO:HG3	1.91	0.52
1:G:283:SER:O	1:G:287:THR:OG1	2.25	0.52
1:H:465:PRO:HG3	1:Y:441:ALA:HB2	1.91	0.52
1:I:540:GLY:C	1:I:542:GLU:H	2.17	0.52
1:K:461:THR:HB	1:8:442:VAL:O	2.10	0.52
1:N:540:GLY:C	1:N:542:GLU:H	2.17	0.52
1:T:540:GLY:C	1:T:542:GLU:H	2.17	0.52
1:Z:442:VAL:O	1:4:461:THR:HB	2.10	0.52
1:Z:461:THR:HB	1:3:442:VAL:O	2.10	0.52
1:f:311:GLY:HA2	1:h:194:LEU:HD13	1.92	0.52
1:i:461:THR:HB	1:k:442:VAL:O	2.10	0.52
1:o:441:ALA:HB2	1:p:465:PRO:HG3	1.91	0.52
1:x:335:SER:HB3	1:x:435:THR:OG1	2.09	0.52
1:1:442:VAL:O	1:2:461:THR:HB	2.10	0.52
1:2:540:GLY:C	1:2:542:GLU:H	2.17	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:442:VAL:O	1:N:461:THR:HB	2.10	0.52
1:K:442:VAL:O	1:a:461:THR:HB	2.10	0.52
1:M:194:LEU:HD13	1:b:311:GLY:HA2	1.92	0.52
1:Q:283:SER:O	1:Q:287:THR:OG1	2.25	0.52
1:Q:335:SER:HB3	1:Q:435:THR:OG1	2.09	0.52
1:a:442:VAL:O	1:8:461:THR:HB	2.10	0.52
1:e:283:SER:O	1:e:287:THR:OG1	2.25	0.52
1:g:206:LYS:HG3	1:1:495:LEU:HD23	1.91	0.52
1:i:465:PRO:HG3	1:k:441:ALA:HB2	1.91	0.52
1:l:335:SER:HB3	1:l:435:THR:OG1	2.09	0.52
1:3:461:THR:HB	1:4:442:VAL:O	2.10	0.52
1:E:461:THR:HB	1:F:442:VAL:O	2.11	0.51
1:H:441:ALA:HB2	1:W:465:PRO:HG3	1.91	0.51
1:H:442:VAL:O	1:W:461:THR:HB	2.11	0.51
1:I:335:SER:HB3	1:I:435:THR:OG1	2.09	0.51
1:M:461:THR:HB	1:b:442:VAL:O	2.11	0.51
1:S:137:VAL:HG21	1:S:519:LEU:HD23	1.93	0.51
1:T:137:VAL:HG21	1:T:519:LEU:HD23	1.93	0.51
1:X:540:GLY:C	1:X:542:GLU:H	2.17	0.51
1:d:137:VAL:HG21	1:d:519:LEU:HD23	1.93	0.51
1:f:442:VAL:O	1:h:461:THR:HB	2.11	0.51
1:n:137:VAL:HG21	1:n:519:LEU:HD23	1.93	0.51
1:o:540:GLY:C	1:o:542:GLU:H	2.17	0.51
1:p:540:GLY:C	1:p:542:GLU:H	2.17	0.51
1:w:461:THR:HB	1:y:442:VAL:O	2.11	0.51
1:F:461:THR:HB	1:Q:442:VAL:O	2.10	0.51
1:T:442:VAL:O	1:d:461:THR:HB	2.10	0.51
1:X:137:VAL:HG21	1:X:519:LEU:HD23	1.93	0.51
1:a:540:GLY:C	1:a:542:GLU:H	2.17	0.51
1:m:137:VAL:HG21	1:m:519:LEU:HD23	1.93	0.51
1:r:137:VAL:HG21	1:r:519:LEU:HD23	1.93	0.51
1:w:283:SER:O	1:w:287:THR:OG1	2.25	0.51
1:1:283:SER:O	1:1:287:THR:OG1	2.25	0.51
1:5:441:ALA:HB2	1:6:465:PRO:HG3	1.91	0.51
1:5:442:VAL:O	1:6:461:THR:HB	2.11	0.51
1:C:137:VAL:HG21	1:C:519:LEU:HD23	1.93	0.51
1:D:461:THR:HB	1:P:442:VAL:O	2.11	0.51
1:L:137:VAL:HG21	1:L:519:LEU:HD23	1.93	0.51
1:N:137:VAL:HG21	1:N:519:LEU:HD23	1.93	0.51
1:O:137:VAL:HG21	1:O:519:LEU:HD23	1.93	0.51
1:V:540:GLY:C	1:V:542:GLU:H	2.17	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:W:137:VAL:HG21	1:W:519:LEU:HD23	1.93	0.51
1:W:540:GLY:C	1:W:542:GLU:H	2.17	0.51
1:X:461:THR:HB	1:e:442:VAL:O	2.10	0.51
1:g:137:VAL:HG21	1:g:519:LEU:HD23	1.93	0.51
1:m:442:VAL:O	1:n:461:THR:HB	2.10	0.51
1:u:335:SER:HB3	1:u:435:THR:OG1	2.09	0.51
1:u:442:VAL:O	1:v:461:THR:HB	2.10	0.51
1:x:442:VAL:O	1:y:461:THR:HB	2.11	0.51
1:3:283:SER:O	1:3:287:THR:OG1	2.25	0.51
1:6:540:GLY:C	1:6:542:GLU:H	2.17	0.51
1:A:461:THR:HB	1:I:442:VAL:O	2.10	0.51
1:A:540:GLY:C	1:A:542:GLU:H	2.17	0.51
1:O:465:PRO:HG3	1:n:441:ALA:HB2	1.91	0.51
1:a:283:SER:O	1:a:287:THR:OG1	2.25	0.51
1:d:441:ALA:HB2	1:l:465:PRO:HG3	1.91	0.51
1:f:283:SER:O	1:f:287:THR:OG1	2.25	0.51
1:o:137:VAL:HG21	1:o:519:LEU:HD23	1.93	0.51
1:p:137:VAL:HG21	1:p:519:LEU:HD23	1.93	0.51
1:r:442:VAL:O	1:s:461:THR:HB	2.11	0.51
1:t:442:VAL:O	1:u:461:THR:HB	2.10	0.51
1:v:540:GLY:C	1:v:542:GLU:H	2.17	0.51
1:z:137:VAL:HG21	1:z:519:LEU:HD23	1.93	0.51
1:z:254:ILE:HB	1:4:42:TYR:HB3	1.92	0.51
1:3:540:GLY:C	1:3:542:GLU:H	2.17	0.51
1:D:137:VAL:HG21	1:D:519:LEU:HD23	1.93	0.51
1:E:283:SER:O	1:E:287:THR:OG1	2.25	0.51
1:S:442:VAL:O	1:U:461:THR:HB	2.11	0.51
1:i:137:VAL:HG21	1:i:519:LEU:HD23	1.93	0.51
1:i:442:VAL:O	1:j:461:THR:HB	2.10	0.51
1:j:442:VAL:O	1:k:461:THR:HB	2.11	0.51
1:k:137:VAL:HG21	1:k:519:LEU:HD23	1.93	0.51
1:l:137:VAL:HG21	1:l:519:LEU:HD23	1.93	0.51
1:s:137:VAL:HG21	1:s:519:LEU:HD23	1.93	0.51
1:z:244:GLN:HG2	1:2:528:GLN:OE1	2.11	0.51
1:6:137:VAL:HG21	1:6:519:LEU:HD23	1.93	0.51
1:B:442:VAL:O	1:J:461:THR:HB	2.11	0.51
1:B:495:LEU:HD23	1:C:206:LYS:HG3	1.91	0.51
1:G:442:VAL:O	1:I:461:THR:HB	2.10	0.51
1:M:137:VAL:HG21	1:M:519:LEU:HD23	1.93	0.51
1:Q:540:GLY:C	1:Q:542:GLU:H	2.17	0.51
1:U:137:VAL:HG21	1:U:519:LEU:HD23	1.93	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:V:137:VAL:HG21	1:V:519:LEU:HD23	1.93	0.51
1:c:442:VAL:O	1:o:461:THR:HB	2.11	0.51
1:h:137:VAL:HG21	1:h:519:LEU:HD23	1.93	0.51
1:q:540:GLY:C	1:q:542:GLU:H	2.17	0.51
1:A:137:VAL:HG21	1:A:519:LEU:HD23	1.93	0.51
1:C:461:THR:HB	1:M:442:VAL:O	2.10	0.51
1:E:137:VAL:HG21	1:E:519:LEU:HD23	1.93	0.51
1:E:311:GLY:HA2	1:Q:194:LEU:HD13	1.93	0.51
1:F:194:LEU:HD13	1:Q:311:GLY:HA2	1.93	0.51
1:G:137:VAL:HG21	1:G:519:LEU:HD23	1.93	0.51
1:H:137:VAL:HG21	1:H:519:LEU:HD23	1.93	0.51
1:N:442:VAL:O	1:P:461:THR:HB	2.10	0.51
1:R:540:GLY:C	1:R:542:GLU:H	2.17	0.51
1:T:283:SER:O	1:T:287:THR:OG1	2.25	0.51
1:W:311:GLY:HA2	1:Y:194:LEU:HD13	1.93	0.51
1:b:137:VAL:HG21	1:b:519:LEU:HD23	1.93	0.51
1:b:283:SER:O	1:b:287:THR:OG1	2.25	0.51
1:c:137:VAL:HG21	1:c:519:LEU:HD23	1.93	0.51
1:e:137:VAL:HG21	1:e:519:LEU:HD23	1.93	0.51
1:f:137:VAL:HG21	1:f:519:LEU:HD23	1.93	0.51
1:f:461:THR:HB	1:g:442:VAL:O	2.11	0.51
1:g:461:THR:HB	1:h:442:VAL:O	2.10	0.51
1:x:311:GLY:HA2	1:y:194:LEU:HD13	1.93	0.51
1:x:540:GLY:C	1:x:542:GLU:H	2.17	0.51
1:C:442:VAL:O	1:b:461:THR:HB	2.11	0.51
1:F:137:VAL:HG21	1:F:519:LEU:HD23	1.93	0.51
1:F:540:GLY:O	1:F:541:THR:OG1	2.28	0.51
1:P:137:VAL:HG21	1:P:519:LEU:HD23	1.93	0.51
1:v:137:VAL:HG21	1:v:519:LEU:HD23	1.93	0.51
1:y:137:VAL:HG21	1:y:519:LEU:HD23	1.93	0.51
1:y:540:GLY:O	1:y:541:THR:OG1	2.28	0.51
1:5:137:VAL:HG21	1:5:519:LEU:HD23	1.93	0.51
1:A:442:VAL:O	1:G:461:THR:HB	2.11	0.51
1:F:254:ILE:HB	1:R:42:TYR:HB3	1.93	0.51
1:V:442:VAL:O	1:e:461:THR:HB	2.11	0.51
1:X:194:LEU:HD13	1:e:311:GLY:HA2	1.92	0.51
1:j:137:VAL:HG21	1:j:519:LEU:HD23	1.93	0.51
1:p:534:LEU:HD21	1:p:538:PRO:HD2	1.93	0.51
1:q:42:TYR:HB3	1:y:254:ILE:HB	1.93	0.51
1:t:137:VAL:HG21	1:t:519:LEU:HD23	1.93	0.51
1:t:461:THR:HB	1:v:442:VAL:O	2.10	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:6:311:GLY:HA2	1:7:194:LEU:HD13	1.93	0.51
1:7:283:SER:O	1:7:287:THR:OG1	2.25	0.51
1:F:356:PHE:CD1	1:F:405:THR:HA	2.47	0.51
1:U:356:PHE:CD1	1:U:405:THR:HA	2.46	0.51
1:V:534:LEU:HD21	1:V:538:PRO:HD2	1.93	0.51
1:Y:283:SER:O	1:Y:287:THR:OG1	2.25	0.51
1:a:534:LEU:HD21	1:a:538:PRO:HD2	1.93	0.51
1:c:311:GLY:HA2	1:o:194:LEU:HD13	1.92	0.51
1:c:461:THR:HB	1:p:442:VAL:O	2.11	0.51
1:d:442:VAL:O	1:l:461:THR:HB	2.10	0.51
1:w:137:VAL:HG21	1:w:519:LEU:HD23	1.93	0.51
1:3:534:LEU:HD21	1:3:538:PRO:HD2	1.93	0.51
1:5:194:LEU:HD13	1:7:311:GLY:HA2	1.93	0.51
1:D:356:PHE:CD1	1:D:405:THR:HA	2.47	0.50
1:D:534:LEU:HD21	1:D:538:PRO:HD2	1.93	0.50
1:E:356:PHE:CD1	1:E:405:THR:HA	2.47	0.50
1:H:356:PHE:CD1	1:H:405:THR:HA	2.46	0.50
1:I:137:VAL:HG21	1:I:519:LEU:HD23	1.93	0.50
1:I:540:GLY:O	1:I:541:THR:OG1	2.28	0.50
1:J:442:VAL:O	1:L:461:THR:HB	2.11	0.50
1:K:311:GLY:HA2	1:a:194:LEU:HD13	1.94	0.50
1:O:194:LEU:HD13	1:n:311:GLY:HA2	1.93	0.50
1:O:461:THR:HB	1:n:442:VAL:O	2.10	0.50
1:Q:137:VAL:HG21	1:Q:519:LEU:HD23	1.93	0.50
1:T:461:THR:HB	1:l:442:VAL:O	2.10	0.50
1:d:311:GLY:HA2	1:l:194:LEU:HD13	1.93	0.50
1:k:356:PHE:CD1	1:k:405:THR:HA	2.47	0.50
1:m:283:SER:O	1:m:287:THR:OG1	2.25	0.50
1:o:409:PRO:HA	1:o:430:GLN:HA	1.94	0.50
1:u:540:GLY:O	1:u:541:THR:OG1	2.28	0.50
1:w:311:GLY:HA2	1:x:194:LEU:HD13	1.93	0.50
1:w:356:PHE:CD1	1:w:405:THR:HA	2.47	0.50
1:y:356:PHE:CD1	1:y:405:THR:HA	2.47	0.50
1:z:194:LEU:HD13	1:2:311:GLY:HA2	1.92	0.50
1:3:194:LEU:HD13	1:4:311:GLY:HA2	1.94	0.50
1:5:356:PHE:CD1	1:5:405:THR:HA	2.47	0.50
1:A:534:LEU:HD21	1:A:538:PRO:HD2	1.93	0.50
1:B:137:VAL:HG21	1:B:519:LEU:HD23	1.93	0.50
1:C:356:PHE:CD1	1:C:405:THR:HA	2.47	0.50
1:E:442:VAL:O	1:Q:461:THR:HB	2.10	0.50
1:E:534:LEU:HD21	1:E:538:PRO:HD2	1.93	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:194:LEU:HD13	1:Y:311:GLY:HA2	1.93	0.50
1:O:442:VAL:O	1:m:461:THR:HB	2.10	0.50
1:R:137:VAL:HG21	1:R:519:LEU:HD23	1.93	0.50
1:S:356:PHE:CD1	1:S:405:THR:HA	2.47	0.50
1:T:534:LEU:HD21	1:T:538:PRO:HD2	1.93	0.50
1:V:461:THR:HB	1:X:442:VAL:O	2.10	0.50
1:Z:283:SER:O	1:Z:287:THR:OG1	2.25	0.50
1:k:534:LEU:HD21	1:k:538:PRO:HD2	1.93	0.50
1:o:442:VAL:O	1:p:461:THR:HB	2.10	0.50
1:r:356:PHE:CD1	1:r:405:THR:HA	2.47	0.50
1:s:356:PHE:CD1	1:s:405:THR:HA	2.47	0.50
1:u:137:VAL:HG21	1:u:519:LEU:HD23	1.93	0.50
1:v:534:LEU:HD21	1:v:538:PRO:HD2	1.93	0.50
1:w:442:VAL:O	1:x:461:THR:HB	2.10	0.50
1:2:534:LEU:HD21	1:2:538:PRO:HD2	1.93	0.50
1:6:534:LEU:HD21	1:6:538:PRO:HD2	1.93	0.50
1:A:356:PHE:CD1	1:A:405:THR:HA	2.47	0.50
1:I:283:SER:O	1:I:287:THR:OG1	2.25	0.50
1:J:534:LEU:HD21	1:J:538:PRO:HD2	1.94	0.50
1:K:409:PRO:HA	1:K:430:GLN:HA	1.94	0.50
1:W:534:LEU:HD21	1:W:538:PRO:HD2	1.93	0.50
1:X:409:PRO:HA	1:X:430:GLN:HA	1.94	0.50
1:a:356:PHE:CD1	1:a:405:THR:HA	2.47	0.50
1:c:534:LEU:HD21	1:c:538:PRO:HD2	1.94	0.50
1:e:534:LEU:HD21	1:e:538:PRO:HD2	1.94	0.50
1:g:356:PHE:CD1	1:g:405:THR:HA	2.47	0.50
1:u:283:SER:O	1:u:287:THR:OG1	2.25	0.50
1:v:356:PHE:CD1	1:v:405:THR:HA	2.47	0.50
1:w:534:LEU:HD21	1:w:538:PRO:HD2	1.94	0.50
1:x:137:VAL:HG21	1:x:519:LEU:HD23	1.93	0.50
1:1:137:VAL:HG21	1:1:519:LEU:HD23	1.93	0.50
1:4:409:PRO:HA	1:4:430:GLN:HA	1.94	0.50
1:I:356:PHE:CD1	1:I:405:THR:HA	2.47	0.50
1:K:283:SER:O	1:K:287:THR:OG1	2.25	0.50
1:L:409:PRO:HA	1:L:430:GLN:HA	1.94	0.50
1:N:356:PHE:CD1	1:N:405:THR:HA	2.46	0.50
1:P:409:PRO:HA	1:P:430:GLN:HA	1.94	0.50
1:Q:409:PRO:HA	1:Q:430:GLN:HA	1.94	0.50
1:R:442:VAL:O	1:S:461:THR:HB	2.11	0.50
1:f:254:ILE:HB	1:z:42:TYR:HB3	1.94	0.50
1:i:311:GLY:HA2	1:j:194:LEU:HD13	1.93	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:i:356:PHE:CD1	1:i:405:THR:HA	2.46	0.50
1:j:409:PRO:HA	1:j:430:GLN:HA	1.94	0.50
1:m:534:LEU:HD21	1:m:538:PRO:HD2	1.94	0.50
1:o:311:GLY:HA2	1:p:194:LEU:HD13	1.94	0.50
1:q:137:VAL:HG21	1:q:519:LEU:HD23	1.93	0.50
1:u:356:PHE:CD1	1:u:405:THR:HA	2.47	0.50
1:x:409:PRO:HA	1:x:430:GLN:HA	1.94	0.50
1:z:409:PRO:HA	1:z:430:GLN:HA	1.94	0.50
1:3:356:PHE:CD1	1:3:405:THR:HA	2.47	0.50
1:A:194:LEU:HD13	1:I:311:GLY:HA2	1.93	0.50
1:B:194:LEU:HD13	1:L:311:GLY:HA2	1.93	0.50
1:G:534:LEU:HD21	1:G:538:PRO:HD2	1.94	0.50
1:J:137:VAL:HG21	1:J:519:LEU:HD23	1.93	0.50
1:K:137:VAL:HG21	1:K:519:LEU:HD23	1.93	0.50
1:Q:534:LEU:HD21	1:Q:538:PRO:HD2	1.93	0.50
1:V:194:LEU:HD13	1:X:311:GLY:HA2	1.94	0.50
1:X:254:ILE:HB	1:f:42:TYR:HB3	1.94	0.50
1:a:137:VAL:HG21	1:a:519:LEU:HD23	1.93	0.50
1:c:409:PRO:HA	1:c:430:GLN:HA	1.94	0.50
1:e:409:PRO:HA	1:e:430:GLN:HA	1.94	0.50
1:j:356:PHE:CD1	1:j:405:THR:HA	2.47	0.50
1:q:318:SER:HB2	1:r:376:LYS:HZ1	1.77	0.50
1:q:442:VAL:O	1:r:461:THR:HB	2.11	0.50
1:q:461:THR:HB	1:s:442:VAL:O	2.12	0.50
1:t:534:LEU:HD21	1:t:538:PRO:HD2	1.93	0.50
1:x:356:PHE:CD1	1:x:405:THR:HA	2.47	0.50
1:y:409:PRO:HA	1:y:430:GLN:HA	1.94	0.50
1:1:534:LEU:HD21	1:1:538:PRO:HD2	1.93	0.50
1:2:137:VAL:HG21	1:2:519:LEU:HD23	1.93	0.50
1:5:534:LEU:HD21	1:5:538:PRO:HD2	1.93	0.50
1:8:283:SER:O	1:8:287:THR:OG1	2.25	0.50
1:B:534:LEU:HD21	1:B:538:PRO:HD2	1.93	0.50
1:E:409:PRO:HA	1:E:430:GLN:HA	1.94	0.50
1:F:409:PRO:HA	1:F:430:GLN:HA	1.94	0.50
1:H:534:LEU:HD21	1:H:538:PRO:HD2	1.94	0.50
1:N:311:GLY:HA2	1:P:194:LEU:HD13	1.94	0.50
1:P:356:PHE:CD1	1:P:405:THR:HA	2.47	0.50
1:Q:356:PHE:CD1	1:Q:405:THR:HA	2.47	0.50
1:R:461:THR:HB	1:U:442:VAL:O	2.12	0.50
1:X:534:LEU:HD21	1:X:538:PRO:HD2	1.93	0.50
1:Y:409:PRO:HA	1:Y:430:GLN:HA	1.94	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:b:42:TYR:HB3	1:o:254:ILE:HB	1.94	0.50
1:b:409:PRO:HA	1:b:430:GLN:HA	1.94	0.50
1:f:409:PRO:HA	1:f:430:GLN:HA	1.94	0.50
1:m:409:PRO:HA	1:m:430:GLN:HA	1.94	0.50
1:p:356:PHE:CD1	1:p:405:THR:HA	2.47	0.50
1:t:194:LEU:HD13	1:v:311:GLY:HA2	1.93	0.50
1:u:311:GLY:HA2	1:v:194:LEU:HD13	1.93	0.50
1:z:528:GLN:OE1	1:1:244:GLN:HG2	2.11	0.50
1:3:137:VAL:HG21	1:3:519:LEU:HD23	1.93	0.50
1:4:137:VAL:HG21	1:4:519:LEU:HD23	1.93	0.50
1:5:409:PRO:HA	1:5:430:GLN:HA	1.94	0.50
1:A:311:GLY:HA2	1:G:194:LEU:HD13	1.93	0.50
1:G:409:PRO:HA	1:G:430:GLN:HA	1.94	0.50
1:H:409:PRO:HA	1:H:430:GLN:HA	1.94	0.50
1:M:409:PRO:HA	1:M:430:GLN:HA	1.94	0.50
1:R:244:GLN:HG2	1:U:528:GLN:OE1	2.12	0.50
1:R:528:GLN:OE1	1:S:244:GLN:HG2	2.12	0.50
1:T:409:PRO:HA	1:T:430:GLN:HA	1.94	0.50
1:V:356:PHE:CD1	1:V:405:THR:HA	2.46	0.50
1:W:356:PHE:CD1	1:W:405:THR:HA	2.47	0.50
1:Y:137:VAL:HG21	1:Y:519:LEU:HD23	1.93	0.50
1:Z:194:LEU:HD13	1:3:311:GLY:HA2	1.93	0.50
1:h:409:PRO:HA	1:h:430:GLN:HA	1.94	0.50
1:q:528:GLN:OE1	1:r:244:GLN:HG2	2.12	0.50
1:t:409:PRO:HA	1:t:430:GLN:HA	1.94	0.50
1:w:409:PRO:HA	1:w:430:GLN:HA	1.94	0.50
1:z:356:PHE:CD1	1:z:405:THR:HA	2.46	0.50
1:1:356:PHE:CD1	1:1:405:THR:HA	2.47	0.50
1:6:356:PHE:CD1	1:6:405:THR:HA	2.47	0.50
1:7:137:VAL:HG21	1:7:519:LEU:HD23	1.93	0.50
1:7:409:PRO:HA	1:7:430:GLN:HA	1.94	0.50
1:8:137:VAL:HG21	1:8:519:LEU:HD23	1.93	0.50
1:A:409:PRO:HA	1:A:430:GLN:HA	1.94	0.50
1:B:356:PHE:CD1	1:B:405:THR:HA	2.47	0.50
1:H:283:SER:O	1:H:287:THR:OG1	2.25	0.50
1:H:461:THR:HB	1:Y:442:VAL:O	2.10	0.50
1:I:409:PRO:HA	1:I:430:GLN:HA	1.94	0.50
1:I:534:LEU:HD21	1:I:538:PRO:HD2	1.94	0.50
1:L:42:TYR:HB3	1:b:254:ILE:HB	1.94	0.50
1:M:534:LEU:HD21	1:M:538:PRO:HD2	1.93	0.50
1:O:356:PHE:CD1	1:O:405:THR:HA	2.47	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Q:42:TYR:HB3	1:S:254:ILE:HB	1.94	0.50
1:U:534:LEU:HD21	1:U:538:PRO:HD2	1.93	0.50
1:Z:137:VAL:HG21	1:Z:519:LEU:HD23	1.93	0.50
1:a:311:GLY:HA2	1:8:194:LEU:HD13	1.93	0.50
1:b:356:PHE:CD1	1:b:405:THR:HA	2.47	0.50
1:f:356:PHE:CD1	1:f:405:THR:HA	2.47	0.50
1:h:534:LEU:HD21	1:h:538:PRO:HD2	1.94	0.50
1:l:356:PHE:CD1	1:l:405:THR:HA	2.47	0.50
1:o:534:LEU:HD21	1:o:538:PRO:HD2	1.93	0.50
1:p:42:TYR:HB3	1:q:254:ILE:HB	1.94	0.50
1:q:244:GLN:HG2	1:s:528:GLN:OE1	2.12	0.50
1:r:254:ILE:HB	1:x:42:TYR:HB3	1.94	0.50
1:s:534:LEU:HD21	1:s:538:PRO:HD2	1.93	0.50
1:u:409:PRO:HA	1:u:430:GLN:HA	1.94	0.50
1:u:534:LEU:HD21	1:u:538:PRO:HD2	1.94	0.50
1:v:409:PRO:HA	1:v:430:GLN:HA	1.94	0.50
1:x:534:LEU:HD21	1:x:538:PRO:HD2	1.94	0.50
1:1:409:PRO:HA	1:1:430:GLN:HA	1.94	0.50
1:2:356:PHE:CD1	1:2:405:THR:HA	2.46	0.50
1:4:283:SER:O	1:4:287:THR:OG1	2.25	0.50
1:7:356:PHE:CD1	1:7:405:THR:HA	2.46	0.50
1:B:254:ILE:HB	1:C:42:TYR:HB3	1.94	0.50
1:B:461:THR:HB	1:L:442:VAL:O	2.12	0.50
1:C:254:ILE:HB	1:D:42:TYR:HB3	1.94	0.50
1:C:534:LEU:HD21	1:C:538:PRO:HD2	1.93	0.50
1:F:283:SER:O	1:F:287:THR:OG1	2.25	0.50
1:J:356:PHE:CD1	1:J:405:THR:HA	2.47	0.50
1:R:254:ILE:HB	1:V:42:TYR:HB3	1.94	0.50
1:R:356:PHE:CD1	1:R:405:THR:HA	2.47	0.50
1:S:534:LEU:HD21	1:S:538:PRO:HD2	1.93	0.50
1:T:356:PHE:CD1	1:T:405:THR:HA	2.47	0.50
1:Y:42:TYR:HB3	1:4:254:ILE:HB	1.94	0.50
1:Y:356:PHE:CD1	1:Y:405:THR:HA	2.46	0.50
1:c:254:ILE:HB	1:s:42:TYR:HB3	1.94	0.50
1:f:194:LEU:HD13	1:g:311:GLY:HA2	1.93	0.50
1:f:534:LEU:HD21	1:f:538:PRO:HD2	1.93	0.50
1:g:534:LEU:HD21	1:g:538:PRO:HD2	1.94	0.50
1:5:283:SER:O	1:5:287:THR:OG1	2.25	0.50
1:5:461:THR:HB	1:7:442:VAL:O	2.10	0.50
1:A:254:ILE:HB	1:B:42:TYR:HB3	1.93	0.49
1:B:244:GLN:HG2	1:L:528:GLN:OE1	2.12	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:409:PRO:HA	1:B:430:GLN:HA	1.94	0.49
1:C:311:GLY:HA2	1:b:194:LEU:HD13	1.93	0.49
1:G:356:PHE:CD1	1:G:405:THR:HA	2.46	0.49
1:L:356:PHE:CD1	1:L:405:THR:HA	2.47	0.49
1:M:356:PHE:CD1	1:M:405:THR:HA	2.47	0.49
1:N:534:LEU:HD21	1:N:538:PRO:HD2	1.94	0.49
1:R:194:LEU:HD13	1:U:311:GLY:HA2	1.93	0.49
1:Z:534:LEU:HD21	1:Z:538:PRO:HD2	1.93	0.49
1:b:534:LEU:HD21	1:b:538:PRO:HD2	1.94	0.49
1:g:42:TYR:HB3	1:l:254:ILE:HB	1.94	0.49
1:m:356:PHE:CD1	1:m:405:THR:HA	2.47	0.49
1:n:356:PHE:CD1	1:n:405:THR:HA	2.47	0.49
1:o:42:TYR:HB3	1:7:254:ILE:HB	1.94	0.49
1:q:194:LEU:HD13	1:s:311:GLY:HA2	1.93	0.49
1:q:356:PHE:CD1	1:q:405:THR:HA	2.47	0.49
1:r:534:LEU:HD21	1:r:538:PRO:HD2	1.94	0.49
1:s:409:PRO:HA	1:s:430:GLN:HA	1.94	0.49
1:z:283:SER:O	1:z:287:THR:OG1	2.25	0.49
1:2:540:GLY:O	1:2:541:THR:OG1	2.28	0.49
1:B:547:LEU:HD21	1:I:530:ASN:ND2	2.27	0.49
1:J:540:GLY:O	1:J:541:THR:OG1	2.28	0.49
1:K:254:ILE:HB	1:7:42:TYR:HB3	1.95	0.49
1:L:283:SER:O	1:L:287:THR:OG1	2.25	0.49
1:M:244:GLN:HG2	1:b:528:GLN:OE1	2.13	0.49
1:R:534:LEU:HD21	1:R:538:PRO:HD2	1.93	0.49
1:U:42:TYR:HB3	1:e:254:ILE:HB	1.94	0.49
1:U:409:PRO:HA	1:U:430:GLN:HA	1.94	0.49
1:V:311:GLY:HA2	1:e:194:LEU:HD13	1.93	0.49
1:d:356:PHE:CD1	1:d:405:THR:HA	2.47	0.49
1:d:534:LEU:HD21	1:d:538:PRO:HD2	1.93	0.49
1:g:254:ILE:HB	1:k:42:TYR:HB3	1.94	0.49
1:h:356:PHE:CD1	1:h:405:THR:HA	2.47	0.49
1:i:534:LEU:HD21	1:i:538:PRO:HD2	1.93	0.49
1:t:356:PHE:CD1	1:t:405:THR:HA	2.46	0.49
1:2:409:PRO:HA	1:2:430:GLN:HA	1.94	0.49
1:D:409:PRO:HA	1:D:430:GLN:HA	1.94	0.49
1:J:42:TYR:HB3	1:a:254:ILE:HB	1.94	0.49
1:K:534:LEU:HD21	1:K:538:PRO:HD2	1.93	0.49
1:P:534:LEU:HD21	1:P:538:PRO:HD2	1.93	0.49
1:Q:547:LEU:HD21	1:R:530:ASN:ND2	2.28	0.49
1:X:42:TYR:HB3	1:Y:254:ILE:HB	1.95	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:e:42:TYR:HB3	1:h:254:ILE:HB	1.94	0.49
1:f:528:GLN:OE1	1:h:244:GLN:HG2	2.13	0.49
1:j:534:LEU:HD21	1:j:538:PRO:HD2	1.93	0.49
1:n:254:ILE:HB	1:r:42:TYR:HB3	1.94	0.49
1:n:534:LEU:HD21	1:n:538:PRO:HD2	1.93	0.49
1:q:530:ASN:ND2	1:x:547:LEU:HD21	2.28	0.49
1:q:534:LEU:HD21	1:q:538:PRO:HD2	1.93	0.49
1:r:311:GLY:HA2	1:s:194:LEU:HD13	1.93	0.49
1:v:254:ILE:HB	1:1:42:TYR:HB3	1.94	0.49
1:z:356:PHE:HE1	1:z:358:GLN:HE21	1.61	0.49
1:1:289:SER:HA	1:2:188:VAL:HB	1.94	0.49
1:B:528:GLN:OE1	1:J:244:GLN:HG2	2.12	0.49
1:C:245:PHE:CZ	1:C:247:PRO:HG3	2.48	0.49
1:F:245:PHE:CZ	1:F:247:PRO:HG3	2.48	0.49
1:F:534:LEU:HD21	1:F:538:PRO:HD2	1.93	0.49
1:J:409:PRO:HA	1:J:430:GLN:HA	1.94	0.49
1:J:530:ASN:ND2	1:K:547:LEU:HD21	2.27	0.49
1:K:194:LEU:HD13	1:8:311:GLY:HA2	1.94	0.49
1:L:356:PHE:HE1	1:L:358:GLN:HE21	1.61	0.49
1:M:254:ILE:HB	1:c:42:TYR:HB3	1.94	0.49
1:S:311:GLY:HA2	1:U:194:LEU:HD13	1.93	0.49
1:Z:254:ILE:HB	1:a:42:TYR:HB3	1.95	0.49
1:a:409:PRO:HA	1:a:430:GLN:HA	1.94	0.49
1:d:409:PRO:HA	1:d:430:GLN:HA	1.94	0.49
1:g:245:PHE:CZ	1:g:247:PRO:HG3	2.48	0.49
1:m:311:GLY:HA2	1:n:194:LEU:HD13	1.94	0.49
1:m:547:LEU:HD21	1:r:530:ASN:ND2	2.27	0.49
1:n:409:PRO:HA	1:n:430:GLN:HA	1.94	0.49
1:q:310:ASN:HB2	1:r:378:ILE:O	2.13	0.49
1:y:283:SER:O	1:y:287:THR:OG1	2.25	0.49
1:3:42:TYR:HB3	1:8:254:ILE:HB	1.95	0.49
1:4:534:LEU:HD21	1:4:538:PRO:HD2	1.94	0.49
1:5:311:GLY:HA2	1:6:194:LEU:HD13	1.93	0.49
1:8:356:PHE:CD1	1:8:405:THR:HA	2.47	0.49
1:8:534:LEU:HD21	1:8:538:PRO:HD2	1.94	0.49
1:B:32:GLY:HA3	1:B:39:THR:HG22	1.95	0.49
1:C:356:PHE:HE1	1:C:358:GLN:HE21	1.61	0.49
1:D:245:PHE:CZ	1:D:247:PRO:HG3	2.48	0.49
1:D:356:PHE:HE1	1:D:358:GLN:HE21	1.61	0.49
1:E:245:PHE:CZ	1:E:247:PRO:HG3	2.48	0.49
1:G:32:GLY:HA3	1:G:39:THR:HG22	1.95	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:356:PHE:HE1	1:G:358:GLN:HE21	1.61	0.49
1:H:245:PHE:CZ	1:H:247:PRO:HG3	2.48	0.49
1:H:311:GLY:HA2	1:W:194:LEU:HD13	1.93	0.49
1:J:245:PHE:CZ	1:J:247:PRO:HG3	2.48	0.49
1:J:547:LEU:HD21	1:K:530:ASN:ND2	2.28	0.49
1:K:32:GLY:HA3	1:K:39:THR:HG22	1.95	0.49
1:O:245:PHE:CZ	1:O:247:PRO:HG3	2.48	0.49
1:Q:530:ASN:ND2	1:R:547:LEU:HD21	2.27	0.49
1:R:310:ASN:HB2	1:S:378:ILE:O	2.13	0.49
1:S:42:TYR:HB3	1:d:254:ILE:HB	1.94	0.49
1:S:530:ASN:ND2	1:T:547:LEU:HD21	2.27	0.49
1:T:311:GLY:HA2	1:d:194:LEU:HD13	1.94	0.49
1:Y:32:GLY:HA3	1:Y:39:THR:HG22	1.95	0.49
1:Y:245:PHE:CZ	1:Y:247:PRO:HG3	2.48	0.49
1:Z:356:PHE:CD1	1:Z:405:THR:HA	2.47	0.49
1:a:245:PHE:CZ	1:a:247:PRO:HG3	2.48	0.49
1:c:194:LEU:HD13	1:p:311:GLY:HA2	1.93	0.49
1:c:356:PHE:CD1	1:c:405:THR:HA	2.47	0.49
1:g:409:PRO:HA	1:g:430:GLN:HA	1.94	0.49
1:l:32:GLY:HA3	1:l:39:THR:HG22	1.95	0.49
1:l:245:PHE:CZ	1:l:247:PRO:HG3	2.48	0.49
1:t:244:GLN:HG2	1:v:528:GLN:OE1	2.13	0.49
1:y:245:PHE:CZ	1:y:247:PRO:HG3	2.48	0.49
1:y:534:LEU:HD21	1:y:538:PRO:HD2	1.93	0.49
1:2:245:PHE:CZ	1:2:247:PRO:HG3	2.48	0.49
1:3:245:PHE:CZ	1:3:247:PRO:HG3	2.48	0.49
1:3:409:PRO:HA	1:3:430:GLN:HA	1.94	0.49
1:5:245:PHE:CZ	1:5:247:PRO:HG3	2.48	0.49
1:7:245:PHE:CZ	1:7:247:PRO:HG3	2.48	0.49
1:A:528:GLN:OE1	1:G:244:GLN:HG2	2.13	0.49
1:K:42:TYR:HB3	1:L:254:ILE:HB	1.95	0.49
1:O:32:GLY:HA3	1:O:39:THR:HG22	1.95	0.49
1:T:245:PHE:CZ	1:T:247:PRO:HG3	2.48	0.49
1:W:245:PHE:CZ	1:W:247:PRO:HG3	2.48	0.49
1:X:356:PHE:CD1	1:X:405:THR:HA	2.46	0.49
1:Z:311:GLY:HA2	1:4:194:LEU:HD13	1.94	0.49
1:b:530:ASN:ND2	1:c:547:LEU:HD21	2.28	0.49
1:e:356:PHE:CD1	1:e:405:THR:HA	2.47	0.49
1:f:245:PHE:CZ	1:f:247:PRO:HG3	2.48	0.49
1:h:42:TYR:HB3	1:i:254:ILE:HB	1.94	0.49
1:h:245:PHE:CZ	1:h:247:PRO:HG3	2.48	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:j:42:TYR:HB3	1:x:254:ILE:HB	1.94	0.49
1:k:245:PHE:CZ	1:k:247:PRO:HG3	2.48	0.49
1:k:356:PHE:HE1	1:k:358:GLN:HE21	1.61	0.49
1:k:409:PRO:HA	1:k:430:GLN:HA	1.94	0.49
1:m:245:PHE:CZ	1:m:247:PRO:HG3	2.48	0.49
1:o:356:PHE:CD1	1:o:405:THR:HA	2.46	0.49
1:t:32:GLY:HA3	1:t:39:THR:HG22	1.95	0.49
1:t:356:PHE:HE1	1:t:358:GLN:HE21	1.61	0.49
1:u:356:PHE:HE1	1:u:358:GLN:HE21	1.61	0.49
1:1:32:GLY:HA3	1:1:39:THR:HG22	1.95	0.49
1:2:42:TYR:HB3	1:3:254:ILE:HB	1.95	0.49
1:4:32:GLY:HA3	1:4:39:THR:HG22	1.95	0.49
1:6:245:PHE:CZ	1:6:247:PRO:HG3	2.48	0.49
1:B:310:ASN:HB2	1:J:378:ILE:O	2.13	0.49
1:C:194:LEU:HD13	1:M:311:GLY:HA2	1.94	0.49
1:D:311:GLY:HA2	1:N:194:LEU:HD13	1.93	0.49
1:E:194:LEU:HD13	1:F:311:GLY:HA2	1.93	0.49
1:H:244:GLN:HG2	1:Y:528:GLN:OE1	2.13	0.49
1:I:356:PHE:HE1	1:I:358:GLN:HE21	1.61	0.49
1:L:245:PHE:CZ	1:L:247:PRO:HG3	2.48	0.49
1:M:42:TYR:HB3	1:N:254:ILE:HB	1.94	0.49
1:Q:245:PHE:CZ	1:Q:247:PRO:HG3	2.48	0.49
1:V:32:GLY:HA3	1:V:39:THR:HG22	1.95	0.49
1:X:356:PHE:HE1	1:X:358:GLN:HE21	1.61	0.49
1:Y:547:LEU:HD21	1:Z:530:ASN:ND2	2.28	0.49
1:a:356:PHE:HE1	1:a:358:GLN:HE21	1.61	0.49
1:e:547:LEU:HD21	1:f:530:ASN:ND2	2.28	0.49
1:g:194:LEU:HD13	1:h:311:GLY:HA2	1.94	0.49
1:p:32:GLY:HA3	1:p:39:THR:HG22	1.95	0.49
1:q:245:PHE:CZ	1:q:247:PRO:HG3	2.48	0.49
1:q:547:LEU:HD21	1:x:530:ASN:ND2	2.27	0.49
1:w:245:PHE:CZ	1:w:247:PRO:HG3	2.48	0.49
1:w:528:GLN:OE1	1:x:244:GLN:HG2	2.13	0.49
1:x:528:GLN:OE1	1:y:244:GLN:HG2	2.13	0.49
1:2:530:ASN:ND2	1:4:547:LEU:HD21	2.28	0.49
1:2:547:LEU:HD21	1:4:530:ASN:ND2	2.28	0.49
1:7:32:GLY:HA3	1:7:39:THR:HG22	1.95	0.49
1:7:547:LEU:HD21	1:8:530:ASN:ND2	2.28	0.49
1:A:547:LEU:HD21	1:F:530:ASN:ND2	2.28	0.49
1:B:530:ASN:ND2	1:I:547:LEU:HD21	2.28	0.49
1:C:244:GLN:HG2	1:M:528:GLN:OE1	2.13	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:194:LEU:HD13	1:P:311:GLY:HA2	1.93	0.49
1:F:244:GLN:HG2	1:Q:528:GLN:OE1	2.13	0.49
1:G:311:GLY:HA2	1:I:194:LEU:HD13	1.93	0.49
1:I:245:PHE:CZ	1:I:247:PRO:HG3	2.48	0.49
1:J:311:GLY:HA2	1:L:194:LEU:HD13	1.93	0.49
1:M:245:PHE:CZ	1:M:247:PRO:HG3	2.48	0.49
1:N:42:TYR:HB3	1:m:254:ILE:HB	1.95	0.49
1:N:257:LEU:HD11	1:N:263:TRP:HB2	1.95	0.49
1:P:42:TYR:HB3	1:Q:254:ILE:HB	1.94	0.49
1:R:245:PHE:CZ	1:R:247:PRO:HG3	2.48	0.49
1:S:409:PRO:HA	1:S:430:GLN:HA	1.94	0.49
1:X:32:GLY:HA3	1:X:39:THR:HG22	1.95	0.49
1:Y:356:PHE:HE1	1:Y:358:GLN:HE21	1.61	0.49
1:a:530:ASN:ND2	1:3:547:LEU:HD21	2.28	0.49
1:a:547:LEU:HD21	1:3:530:ASN:ND2	2.28	0.49
1:b:245:PHE:CZ	1:b:247:PRO:HG3	2.48	0.49
1:e:257:LEU:HD11	1:e:263:TRP:HB2	1.95	0.49
1:o:356:PHE:HE1	1:o:358:GLN:HE21	1.61	0.49
1:r:409:PRO:HA	1:r:430:GLN:HA	1.94	0.49
1:r:528:GLN:OE1	1:s:244:GLN:HG2	2.13	0.49
1:v:547:LEU:HD21	1:y:530:ASN:ND2	2.28	0.49
1:w:194:LEU:HD13	1:y:311:GLY:HA2	1.93	0.49
1:x:245:PHE:CZ	1:x:247:PRO:HG3	2.48	0.49
1:z:245:PHE:CZ	1:z:247:PRO:HG3	2.48	0.49
1:1:431:ASP:CG	1:2:340:ARG:HH22	2.21	0.49
1:3:356:PHE:HE1	1:3:358:GLN:HE21	1.61	0.49
1:5:244:GLN:HG2	1:7:528:GLN:OE1	2.13	0.49
1:5:356:PHE:HE1	1:5:358:GLN:HE21	1.61	0.49
1:A:245:PHE:CZ	1:A:247:PRO:HG3	2.48	0.49
1:C:409:PRO:HA	1:C:430:GLN:HA	1.94	0.49
1:C:530:ASN:ND2	1:L:547:LEU:HD21	2.28	0.49
1:E:528:GLN:OE1	1:Q:244:GLN:HG2	2.13	0.49
1:H:254:ILE:HB	1:Z:42:TYR:HB3	1.95	0.49
1:H:356:PHE:HE1	1:H:358:GLN:HE21	1.61	0.49
1:J:32:GLY:HA3	1:J:39:THR:HG22	1.95	0.49
1:J:528:GLN:OE1	1:L:244:GLN:HG2	2.13	0.49
1:K:356:PHE:HE1	1:K:358:GLN:HE21	1.61	0.49
1:S:245:PHE:CZ	1:S:247:PRO:HG3	2.48	0.49
1:S:547:LEU:HD21	1:T:530:ASN:ND2	2.28	0.49
1:T:254:ILE:HB	1:i:42:TYR:HB3	1.95	0.49
1:X:244:GLN:HG2	1:e:528:GLN:OE1	2.13	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:a:32:GLY:HA3	1:a:39:THR:HG22	1.95	0.49
1:c:257:LEU:HD11	1:c:263:TRP:HB2	1.95	0.49
1:c:528:GLN:OE1	1:o:244:GLN:HG2	2.13	0.49
1:g:356:PHE:HE1	1:g:358:GLN:HE21	1.61	0.49
1:i:194:LEU:HD13	1:k:311:GLY:HA2	1.93	0.49
1:i:257:LEU:HD11	1:i:263:TRP:HB2	1.95	0.49
1:o:32:GLY:HA3	1:o:39:THR:HG22	1.95	0.49
1:p:547:LEU:HD21	1:s:530:ASN:ND2	2.28	0.49
1:q:289:SER:HA	1:r:188:VAL:HB	1.95	0.49
1:r:245:PHE:CZ	1:r:247:PRO:HG3	2.48	0.49
1:u:245:PHE:CZ	1:u:247:PRO:HG3	2.48	0.49
1:u:530:ASN:ND2	1:l:547:LEU:HD21	2.28	0.49
1:v:245:PHE:CZ	1:v:247:PRO:HG3	2.48	0.49
1:4:356:PHE:HE1	1:4:358:GLN:HE21	1.61	0.49
1:5:254:ILE:HB	1:8:42:TYR:HB3	1.95	0.49
1:6:356:PHE:HE1	1:6:358:GLN:HE21	1.61	0.49
1:7:356:PHE:HE1	1:7:358:GLN:HE21	1.61	0.49
1:8:356:PHE:HE1	1:8:358:GLN:HE21	1.61	0.49
1:D:244:GLN:HG2	1:P:528:GLN:OE1	2.13	0.49
1:D:289:SER:HA	1:N:188:VAL:HB	1.95	0.49
1:H:42:TYR:HB3	1:I:254:ILE:HB	1.94	0.49
1:I:32:GLY:HA3	1:I:39:THR:HG22	1.95	0.49
1:N:530:ASN:ND2	1:O:547:LEU:HD21	2.28	0.49
1:R:409:PRO:HA	1:R:430:GLN:HA	1.94	0.49
1:S:528:GLN:OE1	1:U:244:GLN:HG2	2.13	0.49
1:U:530:ASN:ND2	1:V:547:LEU:HD21	2.28	0.49
1:W:356:PHE:HE1	1:W:358:GLN:HE21	1.61	0.49
1:Z:356:PHE:HE1	1:Z:358:GLN:HE21	1.61	0.49
1:f:188:VAL:HB	1:g:289:SER:HA	1.95	0.49
1:g:244:GLN:HG2	1:h:528:GLN:OE1	2.13	0.49
1:i:530:ASN:ND2	1:l:547:LEU:HD21	2.28	0.49
1:j:311:GLY:HA2	1:k:194:LEU:HD13	1.93	0.49
1:m:530:ASN:ND2	1:r:547:LEU:HD21	2.28	0.49
1:q:409:PRO:HA	1:q:430:GLN:HA	1.94	0.49
1:s:257:LEU:HD11	1:s:263:TRP:HB2	1.95	0.49
1:u:32:GLY:HA3	1:u:39:THR:HG22	1.95	0.49
1:u:254:ILE:HB	1:5:42:TYR:HB3	1.94	0.49
1:z:534:LEU:HD21	1:z:538:PRO:HD2	1.93	0.49
1:2:32:GLY:HA3	1:2:39:THR:HG22	1.95	0.49
1:3:32:GLY:HA3	1:3:39:THR:HG22	1.95	0.49
1:8:257:LEU:HD11	1:8:263:TRP:HB2	1.95	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:289:SER:HA	1:J:188:VAL:HB	1.95	0.48
1:C:289:SER:HA	1:b:188:VAL:HB	1.95	0.48
1:G:404:GLN:NE2	1:G:443:ASP:N	2.58	0.48
1:H:32:GLY:HA3	1:H:39:THR:HG22	1.95	0.48
1:I:257:LEU:HD11	1:I:263:TRP:HB2	1.95	0.48
1:L:534:LEU:HD21	1:L:538:PRO:HD2	1.93	0.48
1:N:547:LEU:HD21	1:O:530:ASN:ND2	2.28	0.48
1:Q:257:LEU:HD11	1:Q:263:TRP:HB2	1.95	0.48
1:R:289:SER:HA	1:S:188:VAL:HB	1.95	0.48
1:T:194:LEU:HD13	1:l:311:GLY:HA2	1.94	0.48
1:U:245:PHE:CZ	1:U:247:PRO:HG3	2.48	0.48
1:U:257:LEU:HD11	1:U:263:TRP:HB2	1.95	0.48
1:V:244:GLN:HG2	1:X:528:GLN:OE1	2.13	0.48
1:Z:32:GLY:HA3	1:Z:39:THR:HG22	1.95	0.48
1:Z:245:PHE:CZ	1:Z:247:PRO:HG3	2.48	0.48
1:b:257:LEU:HD11	1:b:263:TRP:HB2	1.95	0.48
1:d:257:LEU:HD11	1:d:263:TRP:HB2	1.95	0.48
1:d:356:PHE:HE1	1:d:358:GLN:HE21	1.61	0.48
1:d:547:LEU:HD21	1:n:530:ASN:ND2	2.28	0.48
1:e:245:PHE:CZ	1:e:247:PRO:HG3	2.48	0.48
1:f:257:LEU:HD11	1:f:263:TRP:HB2	1.95	0.48
1:i:188:VAL:HB	1:k:289:SER:HA	1.95	0.48
1:i:547:LEU:HD21	1:l:530:ASN:ND2	2.28	0.48
1:j:528:GLN:OE1	1:k:244:GLN:HG2	2.13	0.48
1:l:409:PRO:HA	1:l:430:GLN:HA	1.94	0.48
1:n:245:PHE:CZ	1:n:247:PRO:HG3	2.48	0.48
1:n:356:PHE:HE1	1:n:358:GLN:HE21	1.61	0.48
1:q:356:PHE:HE1	1:q:358:GLN:HE21	1.61	0.48
1:s:356:PHE:HE1	1:s:358:GLN:HE21	1.61	0.48
1:t:311:GLY:HA2	1:u:194:LEU:HD13	1.94	0.48
1:u:257:LEU:HD11	1:u:263:TRP:HB2	1.95	0.48
1:u:547:LEU:HD21	1:l:530:ASN:ND2	2.28	0.48
1:x:257:LEU:HD11	1:x:263:TRP:HB2	1.95	0.48
1:2:404:GLN:NE2	1:2:443:ASP:N	2.58	0.48
1:6:409:PRO:HA	1:6:430:GLN:HA	1.94	0.48
1:6:431:ASP:CG	1:7:340:ARG:HH22	2.22	0.48
1:A:244:GLN:HG2	1:I:528:GLN:OE1	2.13	0.48
1:G:431:ASP:CG	1:I:340:ARG:HH22	2.22	0.48
1:K:356:PHE:CD1	1:K:405:THR:HA	2.47	0.48
1:N:409:PRO:HA	1:N:430:GLN:HA	1.94	0.48
1:O:311:GLY:HA2	1:m:194:LEU:HD13	1.94	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:O:356:PHE:HE1	1:O:358:GLN:HE21	1.61	0.48
1:O:409:PRO:HA	1:O:430:GLN:HA	1.94	0.48
1:U:356:PHE:HE1	1:U:358:GLN:HE21	1.61	0.48
1:W:289:SER:HA	1:Y:188:VAL:HB	1.95	0.48
1:W:431:ASP:CG	1:Y:340:ARG:HH22	2.22	0.48
1:Z:257:LEU:HD11	1:Z:263:TRP:HB2	1.95	0.48
1:b:547:LEU:HD21	1:c:530:ASN:ND2	2.28	0.48
1:d:530:ASN:ND2	1:n:547:LEU:HD21	2.28	0.48
1:h:530:ASN:ND2	1:k:547:LEU:HD21	2.28	0.48
1:i:244:GLN:HG2	1:k:528:GLN:OE1	2.13	0.48
1:i:528:GLN:OE1	1:j:244:GLN:HG2	2.13	0.48
1:l:356:PHE:HE1	1:l:358:GLN:HE21	1.61	0.48
1:n:257:LEU:HD11	1:n:263:TRP:HB2	1.95	0.48
1:o:245:PHE:CZ	1:o:247:PRO:HG3	2.48	0.48
1:o:257:LEU:HD11	1:o:263:TRP:HB2	1.95	0.48
1:s:245:PHE:CZ	1:s:247:PRO:HG3	2.48	0.48
1:t:42:TYR:HB3	1:6:254:ILE:HB	1.94	0.48
1:x:356:PHE:HE1	1:x:358:GLN:HE21	1.61	0.48
1:4:356:PHE:CD1	1:4:405:THR:HA	2.47	0.48
1:5:32:GLY:HA3	1:5:39:THR:HG22	1.95	0.48
1:8:32:GLY:HA3	1:8:39:THR:HG22	1.95	0.48
1:8:245:PHE:CZ	1:8:247:PRO:HG3	2.48	0.48
1:A:356:PHE:HE1	1:A:358:GLN:HE21	1.61	0.48
1:D:528:GLN:OE1	1:N:244:GLN:HG2	2.13	0.48
1:D:530:ASN:ND2	1:M:547:LEU:HD21	2.28	0.48
1:D:547:LEU:HD21	1:M:530:ASN:ND2	2.28	0.48
1:N:528:GLN:OE1	1:P:244:GLN:HG2	2.13	0.48
1:O:340:ARG:HH22	1:n:431:ASP:CG	2.22	0.48
1:T:32:GLY:HA3	1:T:39:THR:HG22	1.95	0.48
1:T:188:VAL:HB	1:l:289:SER:HA	1.95	0.48
1:W:409:PRO:HA	1:W:430:GLN:HA	1.94	0.48
1:X:245:PHE:CZ	1:X:247:PRO:HG3	2.48	0.48
1:X:257:LEU:HD11	1:X:263:TRP:HB2	1.95	0.48
1:Z:244:GLN:HG2	1:3:528:GLN:OE1	2.13	0.48
1:a:528:GLN:OE1	1:8:244:GLN:HG2	2.13	0.48
1:c:245:PHE:CZ	1:c:247:PRO:HG3	2.48	0.48
1:d:245:PHE:CZ	1:d:247:PRO:HG3	2.48	0.48
1:e:32:GLY:HA3	1:e:39:THR:HG22	1.95	0.48
1:e:530:ASN:ND2	1:f:547:LEU:HD21	2.28	0.48
1:f:340:ARG:HH22	1:g:431:ASP:CG	2.22	0.48
1:h:547:LEU:HD21	1:k:530:ASN:ND2	2.28	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:i:409:PRO:HA	1:i:430:GLN:HA	1.94	0.48
1:m:32:GLY:HA3	1:m:39:THR:HG22	1.95	0.48
1:o:528:GLN:OE1	1:p:244:GLN:HG2	2.13	0.48
1:p:530:ASN:ND2	1:s:547:LEU:HD21	2.28	0.48
1:t:431:ASP:CG	1:u:340:ARG:HH22	2.22	0.48
1:u:528:GLN:OE1	1:v:244:GLN:HG2	2.13	0.48
1:v:356:PHE:HE1	1:v:358:GLN:HE21	1.61	0.48
1:v:530:ASN:ND2	1:y:547:LEU:HD21	2.28	0.48
1:z:257:LEU:HD11	1:z:263:TRP:HB2	1.95	0.48
1:1:528:GLN:OE1	1:2:244:GLN:HG2	2.13	0.48
1:5:528:GLN:OE1	1:6:244:GLN:HG2	2.13	0.48
1:6:257:LEU:HD11	1:6:263:TRP:HB2	1.95	0.48
1:7:534:LEU:HD21	1:7:538:PRO:HD2	1.93	0.48
1:A:188:VAL:HB	1:I:289:SER:HA	1.96	0.48
1:A:530:ASN:ND2	1:F:547:LEU:HD21	2.28	0.48
1:C:431:ASP:CG	1:b:340:ARG:HH22	2.22	0.48
1:E:244:GLN:HG2	1:F:528:GLN:OE1	2.13	0.48
1:G:530:ASN:ND2	1:H:547:LEU:HD21	2.28	0.48
1:H:528:GLN:OE1	1:W:244:GLN:HG2	2.13	0.48
1:I:42:TYR:HB3	1:J:254:ILE:HB	1.94	0.48
1:J:356:PHE:HE1	1:J:358:GLN:HE21	1.61	0.48
1:J:404:GLN:NE2	1:J:443:ASP:N	2.58	0.48
1:L:257:LEU:HD11	1:L:263:TRP:HB2	1.95	0.48
1:O:188:VAL:HB	1:n:289:SER:HA	1.95	0.48
1:O:257:LEU:HD11	1:O:263:TRP:HB2	1.95	0.48
1:O:289:SER:HA	1:m:188:VAL:HB	1.95	0.48
1:O:534:LEU:HD21	1:O:538:PRO:HD2	1.94	0.48
1:Q:356:PHE:HE1	1:Q:358:GLN:HE21	1.61	0.48
1:R:356:PHE:HE1	1:R:358:GLN:HE21	1.61	0.48
1:W:257:LEU:HD11	1:W:263:TRP:HB2	1.95	0.48
1:X:340:ARG:HH22	1:e:431:ASP:CG	2.22	0.48
1:Y:534:LEU:HD21	1:Y:538:PRO:HD2	1.93	0.48
1:Z:188:VAL:HB	1:3:289:SER:HA	1.95	0.48
1:m:42:TYR:HB3	1:s:254:ILE:HB	1.95	0.48
1:p:254:ILE:HB	1:6:42:TYR:HB3	1.94	0.48
1:p:257:LEU:HD11	1:p:263:TRP:HB2	1.95	0.48
1:p:356:PHE:HE1	1:p:358:GLN:HE21	1.61	0.48
1:u:289:SER:HA	1:v:188:VAL:HB	1.96	0.48
1:u:545:LYS:C	1:u:547:LEU:H	2.22	0.48
1:y:257:LEU:HD11	1:y:263:TRP:HB2	1.95	0.48
1:z:442:VAL:O	1:1:461:THR:HB	2.13	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1:314:TRP:O	1:2:375:GLU:HA	2.13	0.48
1:2:356:PHE:HE1	1:2:358:GLN:HE21	1.61	0.48
1:6:289:SER:HA	1:7:188:VAL:HB	1.95	0.48
1:C:528:GLN:OE1	1:b:244:GLN:HG2	2.13	0.48
1:F:32:GLY:HA3	1:F:39:THR:HG22	1.95	0.48
1:F:257:LEU:HD11	1:F:263:TRP:HB2	1.95	0.48
1:G:42:TYR:HB3	1:W:254:ILE:HB	1.94	0.48
1:O:431:ASP:CG	1:m:340:ARG:HH22	2.22	0.48
1:T:340:ARG:HH22	1:l:431:ASP:CG	2.22	0.48
1:U:547:LEU:HD21	1:V:530:ASN:ND2	2.28	0.48
1:V:254:ILE:HB	1:W:42:TYR:HB3	1.94	0.48
1:V:257:LEU:HD11	1:V:263:TRP:HB2	1.95	0.48
1:V:356:PHE:HE1	1:V:358:GLN:HE21	1.61	0.48
1:V:409:PRO:HA	1:V:430:GLN:HA	1.94	0.48
1:a:289:SER:HA	1:8:188:VAL:HB	1.95	0.48
1:c:32:GLY:HA3	1:c:39:THR:HG22	1.95	0.48
1:d:32:GLY:HA3	1:d:39:THR:HG22	1.95	0.48
1:d:289:SER:HA	1:l:188:VAL:HB	1.95	0.48
1:d:431:ASP:CG	1:l:340:ARG:HH22	2.22	0.48
1:f:244:GLN:HG2	1:g:528:GLN:OE1	2.13	0.48
1:f:310:ASN:HB2	1:h:378:ILE:O	2.14	0.48
1:f:356:PHE:HE1	1:f:358:GLN:HE21	1.61	0.48
1:g:531:LEU:CD1	1:z:128:GLN:CB	2.91	0.48
1:l:257:LEU:HD11	1:l:263:TRP:HB2	1.95	0.48
1:l:534:LEU:HD21	1:l:538:PRO:HD2	1.94	0.48
1:o:530:ASN:ND2	1:6:547:LEU:HD21	2.28	0.48
1:t:245:PHE:CZ	1:t:247:PRO:HG3	2.48	0.48
1:t:289:SER:HA	1:u:188:VAL:HB	1.95	0.48
1:t:530:ASN:ND2	1:5:547:LEU:HD21	2.28	0.48
1:t:547:LEU:HD21	1:5:530:ASN:ND2	2.28	0.48
1:u:431:ASP:CG	1:v:340:ARG:HH22	2.22	0.48
1:w:244:GLN:HG2	1:y:528:GLN:OE1	2.13	0.48
1:y:32:GLY:HA3	1:y:39:THR:HG22	1.95	0.48
1:z:289:SER:HA	1:1:188:VAL:HB	1.94	0.48
1:z:378:ILE:O	1:2:310:ASN:HB2	2.14	0.48
1:z:461:THR:HB	1:2:442:VAL:O	2.13	0.48
1:3:244:GLN:HG2	1:4:528:GLN:OE1	2.13	0.48
1:A:340:ARG:HH22	1:I:431:ASP:CG	2.22	0.48
1:D:257:LEU:HD11	1:D:263:TRP:HB2	1.95	0.48
1:G:245:PHE:CZ	1:G:247:PRO:HG3	2.48	0.48
1:G:289:SER:HA	1:I:188:VAL:HB	1.95	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:547:LEU:HD21	1:H:530:ASN:ND2	2.28	0.48
1:K:245:PHE:CZ	1:K:247:PRO:HG3	2.48	0.48
1:K:340:ARG:HH22	1:8:431:ASP:CG	2.22	0.48
1:O:244:GLN:HG2	1:n:528:GLN:OE1	2.13	0.48
1:O:254:ILE:HB	1:d:42:TYR:HB3	1.95	0.48
1:P:245:PHE:CZ	1:P:247:PRO:HG3	2.48	0.48
1:T:42:TYR:HB3	1:U:254:ILE:HB	1.95	0.48
1:W:530:ASN:ND2	1:X:547:LEU:HD21	2.28	0.48
1:Z:289:SER:HA	1:4:188:VAL:HB	1.96	0.48
1:a:431:ASP:CG	1:8:340:ARG:HH22	2.22	0.48
1:c:244:GLN:HG2	1:p:528:GLN:OE1	2.13	0.48
1:c:431:ASP:CG	1:o:340:ARG:HH22	2.22	0.48
1:g:188:VAL:HB	1:h:289:SER:HA	1.96	0.48
1:j:356:PHE:HE1	1:j:358:GLN:HE21	1.61	0.48
1:n:32:GLY:HA3	1:n:39:THR:HG22	1.95	0.48
1:p:409:PRO:HA	1:p:430:GLN:HA	1.94	0.48
1:r:431:ASP:CG	1:s:340:ARG:HH22	2.22	0.48
1:t:340:ARG:HH22	1:v:431:ASP:CG	2.22	0.48
1:u:42:TYR:HB3	1:2:254:ILE:HB	1.94	0.48
1:x:32:GLY:HA3	1:x:39:THR:HG22	1.95	0.48
1:z:376:LYS:HZ1	1:2:318:SER:HB2	1.77	0.48
1:1:257:LEU:HD11	1:1:263:TRP:HB2	1.95	0.48
1:A:431:ASP:CG	1:G:340:ARG:HH22	2.22	0.48
1:B:257:LEU:HD11	1:B:263:TRP:HB2	1.95	0.48
1:B:431:ASP:CG	1:J:340:ARG:HH22	2.22	0.48
1:C:257:LEU:HD11	1:C:263:TRP:HB2	1.95	0.48
1:C:547:LEU:HD21	1:L:530:ASN:ND2	2.28	0.48
1:D:431:ASP:CG	1:N:340:ARG:HH22	2.22	0.48
1:E:290:VAL:HG11	1:Q:105:GLN:OE1	2.14	0.48
1:H:396:GLN:HG3	1:H:558:PHE:CZ	2.49	0.48
1:K:188:VAL:HB	1:8:289:SER:HA	1.96	0.48
1:K:528:GLN:OE1	1:a:244:GLN:HG2	2.13	0.48
1:K:540:GLY:O	1:K:541:THR:OG1	2.28	0.48
1:M:378:ILE:O	1:b:310:ASN:HB2	2.14	0.48
1:N:32:GLY:HA3	1:N:39:THR:HG22	1.95	0.48
1:N:289:SER:HA	1:P:188:VAL:HB	1.96	0.48
1:P:356:PHE:HE1	1:P:358:GLN:HE21	1.61	0.48
1:Q:32:GLY:HA3	1:Q:39:THR:HG22	1.95	0.48
1:Q:396:GLN:HG3	1:Q:558:PHE:CZ	2.49	0.48
1:R:32:GLY:HA3	1:R:39:THR:HG22	1.95	0.48
1:S:431:ASP:CG	1:U:340:ARG:HH22	2.22	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:T:528:GLN:OE1	1:d:244:GLN:HG2	2.13	0.48
1:V:245:PHE:CZ	1:V:247:PRO:HG3	2.48	0.48
1:W:528:GLN:OE1	1:Y:244:GLN:HG2	2.13	0.48
1:Y:396:GLN:HG3	1:Y:558:PHE:CZ	2.49	0.48
1:Z:409:PRO:HA	1:Z:430:GLN:HA	1.94	0.48
1:d:528:GLN:OE1	1:l:244:GLN:HG2	2.13	0.48
1:e:356:PHE:HE1	1:e:358:GLN:HE21	1.61	0.48
1:e:396:GLN:HG3	1:e:558:PHE:CZ	2.49	0.48
1:i:289:SER:HA	1:j:188:VAL:HB	1.96	0.48
1:j:254:ILE:HB	1:l:42:TYR:HB3	1.95	0.48
1:j:431:ASP:CG	1:k:340:ARG:HH22	2.22	0.48
1:l:254:ILE:HB	1:n:42:TYR:HB3	1.95	0.48
1:w:290:VAL:HG11	1:x:105:GLN:OE1	2.14	0.48
1:x:396:GLN:HG3	1:x:558:PHE:CZ	2.49	0.48
1:y:356:PHE:HE1	1:y:358:GLN:HE21	1.61	0.48
1:1:245:PHE:CZ	1:1:247:PRO:HG3	2.48	0.48
1:3:340:ARG:HH22	1:4:431:ASP:CG	2.22	0.48
1:4:245:PHE:CZ	1:4:247:PRO:HG3	2.48	0.48
1:6:290:VAL:HG11	1:7:105:GLN:OE1	2.14	0.48
1:A:42:TYR:HB3	1:E:254:ILE:HB	1.94	0.48
1:B:245:PHE:CZ	1:B:247:PRO:HG3	2.48	0.48
1:C:32:GLY:HA3	1:C:39:THR:HG22	1.95	0.48
1:C:105:GLN:OE1	1:M:290:VAL:HG11	2.14	0.48
1:C:188:VAL:HB	1:M:289:SER:HA	1.96	0.48
1:D:340:ARG:HH22	1:P:431:ASP:CG	2.22	0.48
1:E:396:GLN:HG3	1:E:558:PHE:CZ	2.49	0.48
1:E:431:ASP:CG	1:Q:340:ARG:HH22	2.21	0.48
1:F:356:PHE:HE1	1:F:358:GLN:HE21	1.61	0.48
1:J:431:ASP:CG	1:L:340:ARG:HH22	2.22	0.48
1:K:431:ASP:CG	1:a:340:ARG:HH22	2.22	0.48
1:L:32:GLY:HA3	1:L:39:THR:HG22	1.95	0.48
1:L:545:LYS:C	1:L:547:LEU:H	2.22	0.48
1:M:188:VAL:HB	1:b:289:SER:HA	1.95	0.48
1:N:128:GLN:CB	1:O:531:LEU:CD1	2.92	0.48
1:O:42:TYR:HB3	1:P:254:ILE:HB	1.95	0.48
1:O:528:GLN:OE1	1:m:244:GLN:HG2	2.13	0.48
1:R:188:VAL:HB	1:U:289:SER:HA	1.96	0.48
1:S:289:SER:HA	1:U:188:VAL:HB	1.96	0.48
1:T:244:GLN:HG2	1:l:528:GLN:OE1	2.13	0.48
1:V:528:GLN:OE1	1:e:244:GLN:HG2	2.13	0.48
1:W:128:GLN:CB	1:X:531:LEU:CD1	2.92	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:W:290:VAL:HG11	1:Y:105:GLN:OE1	2.14	0.48
1:Z:340:ARG:HH22	1:3:431:ASP:CG	2.22	0.48
1:b:545:LYS:C	1:b:547:LEU:H	2.22	0.48
1:c:356:PHE:HE1	1:c:358:GLN:HE21	1.61	0.48
1:c:396:GLN:HG3	1:c:558:PHE:CZ	2.49	0.48
1:c:545:LYS:C	1:c:547:LEU:H	2.22	0.48
1:f:289:SER:HA	1:h:188:VAL:HB	1.95	0.48
1:f:545:LYS:C	1:f:547:LEU:H	2.22	0.48
1:g:257:LEU:HD11	1:g:263:TRP:HB2	1.95	0.48
1:h:356:PHE:HE1	1:h:358:GLN:HE21	1.61	0.48
1:i:32:GLY:HA3	1:i:39:THR:HG22	1.95	0.48
1:i:128:GLN:CB	1:l:531:LEU:CD1	2.92	0.48
1:i:340:ARG:HH22	1:k:431:ASP:CG	2.22	0.48
1:j:245:PHE:CZ	1:j:247:PRO:HG3	2.48	0.48
1:j:547:LEU:HD21	1:w:530:ASN:ND2	2.28	0.48
1:k:257:LEU:HD11	1:k:263:TRP:HB2	1.95	0.48
1:o:547:LEU:HD21	1:6:530:ASN:ND2	2.28	0.48
1:p:245:PHE:CZ	1:p:247:PRO:HG3	2.48	0.48
1:q:32:GLY:HA3	1:q:39:THR:HG22	1.95	0.48
1:r:289:SER:HA	1:s:188:VAL:HB	1.96	0.48
1:u:396:GLN:HG3	1:u:558:PHE:CZ	2.49	0.48
1:v:42:TYR:HB3	1:w:254:ILE:HB	1.95	0.48
1:w:257:LEU:HD11	1:w:263:TRP:HB2	1.95	0.48
1:z:32:GLY:HA3	1:z:39:THR:HG22	1.95	0.48
1:z:310:ASN:HB2	1:1:378:ILE:O	2.13	0.48
1:4:545:LYS:C	1:4:547:LEU:H	2.22	0.48
1:5:396:GLN:HG3	1:5:558:PHE:CZ	2.49	0.48
1:7:396:GLN:HG3	1:7:558:PHE:CZ	2.49	0.48
1:8:409:PRO:HA	1:8:430:GLN:HA	1.94	0.48
1:A:310:ASN:HB2	1:G:378:ILE:O	2.14	0.48
1:C:545:LYS:C	1:C:547:LEU:H	2.22	0.48
1:E:32:GLY:HA3	1:E:39:THR:HG22	1.95	0.48
1:E:257:LEU:HD11	1:E:263:TRP:HB2	1.95	0.48
1:F:188:VAL:HB	1:Q:289:SER:HA	1.96	0.48
1:G:528:GLN:OE1	1:I:244:GLN:HG2	2.13	0.48
1:H:431:ASP:CG	1:W:340:ARG:HH22	2.22	0.48
1:I:396:GLN:HG3	1:I:558:PHE:CZ	2.49	0.48
1:K:396:GLN:HG3	1:K:558:PHE:CZ	2.49	0.48
1:K:545:LYS:C	1:K:547:LEU:H	2.22	0.48
1:M:356:PHE:HE1	1:M:358:GLN:HE21	1.61	0.48
1:P:545:LYS:C	1:P:547:LEU:H	2.22	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:R:545:LYS:C	1:R:547:LEU:H	2.22	0.48
1:T:290:VAL:HG11	1:d:105:GLN:OE1	2.14	0.48
1:V:290:VAL:HG11	1:e:105:GLN:OE1	2.14	0.48
1:V:540:GLY:O	1:V:541:THR:OG1	2.28	0.48
1:W:547:LEU:HD21	1:X:530:ASN:ND2	2.28	0.48
1:Y:338:GLU:HG2	1:Y:371:GLN:HB3	1.96	0.48
1:Z:431:ASP:CG	1:4:340:ARG:HH22	2.22	0.48
1:b:356:PHE:HE1	1:b:358:GLN:HE21	1.61	0.48
1:c:105:GLN:OE1	1:p:290:VAL:HG11	2.14	0.48
1:e:545:LYS:C	1:e:547:LEU:H	2.22	0.48
1:g:32:GLY:HA3	1:g:39:THR:HG22	1.95	0.48
1:g:105:GLN:OE1	1:h:290:VAL:HG11	2.14	0.48
1:g:545:LYS:C	1:g:547:LEU:H	2.22	0.48
1:j:32:GLY:HA3	1:j:39:THR:HG22	1.95	0.48
1:m:290:VAL:HG11	1:n:105:GLN:OE1	2.14	0.48
1:m:528:GLN:OE1	1:n:244:GLN:HG2	2.13	0.48
1:p:396:GLN:HG3	1:p:558:PHE:CZ	2.49	0.48
1:q:188:VAL:HB	1:s:289:SER:HA	1.96	0.48
1:t:188:VAL:HB	1:v:289:SER:HA	1.96	0.48
1:t:378:ILE:O	1:v:310:ASN:HB2	2.14	0.48
1:t:528:GLN:OE1	1:u:244:GLN:HG2	2.13	0.48
1:w:32:GLY:HA3	1:w:39:THR:HG22	1.95	0.48
1:w:396:GLN:HG3	1:w:558:PHE:CZ	2.49	0.48
1:z:545:LYS:C	1:z:547:LEU:H	2.22	0.48
1:1:310:ASN:HB2	1:2:378:ILE:O	2.14	0.48
1:1:338:GLU:HG2	1:1:371:GLN:HB3	1.96	0.48
1:4:396:GLN:HG3	1:4:558:PHE:CZ	2.49	0.48
1:7:338:GLU:HG2	1:7:371:GLN:HB3	1.96	0.48
1:A:289:SER:HA	1:G:188:VAL:HB	1.96	0.48
1:A:396:GLN:HG3	1:A:558:PHE:CZ	2.49	0.48
1:C:340:ARG:HH22	1:M:431:ASP:CG	2.22	0.48
1:E:530:ASN:ND2	1:P:547:LEU:HD21	2.28	0.48
1:F:340:ARG:HH22	1:Q:431:ASP:CG	2.22	0.48
1:J:290:VAL:HG11	1:L:105:GLN:OE1	2.14	0.48
1:M:545:LYS:C	1:M:547:LEU:H	2.22	0.48
1:N:245:PHE:CZ	1:N:247:PRO:HG3	2.48	0.48
1:P:32:GLY:HA3	1:P:39:THR:HG22	1.95	0.48
1:Q:545:LYS:C	1:Q:547:LEU:H	2.22	0.48
1:S:32:GLY:HA3	1:S:39:THR:HG22	1.95	0.48
1:U:545:LYS:C	1:U:547:LEU:H	2.22	0.48
1:V:338:GLU:HG2	1:V:371:GLN:HB3	1.96	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:V:396:GLN:HG3	1:V:558:PHE:CZ	2.49	0.48
1:a:338:GLU:HG2	1:a:371:GLN:HB3	1.96	0.48
1:a:396:GLN:HG3	1:a:558:PHE:CZ	2.49	0.48
1:d:290:VAL:HG11	1:l:105:GLN:OE1	2.14	0.48
1:f:338:GLU:HG2	1:f:371:GLN:HB3	1.96	0.48
1:g:340:ARG:HH22	1:h:431:ASP:CG	2.22	0.48
1:h:396:GLN:HG3	1:h:558:PHE:CZ	2.49	0.48
1:h:545:LYS:C	1:h:547:LEU:H	2.22	0.48
1:j:531:LEU:CD1	1:w:128:GLN:CB	2.92	0.48
1:k:254:ILE:HB	1:w:42:TYR:HB3	1.94	0.48
1:l:396:GLN:HG3	1:l:558:PHE:CZ	2.49	0.48
1:o:531:LEU:CD1	1:6:128:GLN:CB	2.92	0.48
1:p:128:GLN:CB	1:s:531:LEU:CD1	2.92	0.48
1:p:338:GLU:HG2	1:p:371:GLN:HB3	1.96	0.48
1:q:545:LYS:C	1:q:547:LEU:H	2.22	0.48
1:r:356:PHE:HE1	1:r:358:GLN:HE21	1.61	0.48
1:s:545:LYS:C	1:s:547:LEU:H	2.22	0.48
1:t:254:ILE:HB	1:y:42:TYR:HB3	1.94	0.48
1:w:431:ASP:CG	1:x:340:ARG:HH22	2.22	0.48
1:1:545:LYS:C	1:1:547:LEU:H	2.22	0.48
1:2:257:LEU:HD11	1:2:263:TRP:HB2	1.95	0.48
1:2:396:GLN:HG3	1:2:558:PHE:CZ	2.49	0.48
1:3:338:GLU:HG2	1:3:371:GLN:HB3	1.96	0.48
1:4:257:LEU:HD11	1:4:263:TRP:HB2	1.95	0.48
1:5:340:ARG:HH22	1:7:431:ASP:CG	2.22	0.48
1:6:528:GLN:OE1	1:7:244:GLN:HG2	2.13	0.48
1:7:530:ASN:ND2	1:8:547:LEU:HD21	2.28	0.48
1:A:32:GLY:HA3	1:A:39:THR:HG22	1.95	0.47
1:B:338:GLU:HG2	1:B:371:GLN:HB3	1.96	0.47
1:B:340:ARG:HH22	1:L:431:ASP:CG	2.22	0.47
1:B:545:LYS:C	1:B:547:LEU:H	2.22	0.47
1:E:128:GLN:CB	1:P:531:LEU:CD1	2.92	0.47
1:G:396:GLN:HG3	1:G:558:PHE:CZ	2.49	0.47
1:H:340:ARG:HH22	1:Y:431:ASP:CG	2.22	0.47
1:J:257:LEU:HD11	1:J:263:TRP:HB2	1.95	0.47
1:J:396:GLN:HG3	1:J:558:PHE:CZ	2.49	0.47
1:M:338:GLU:HG2	1:M:371:GLN:HB3	1.96	0.47
1:M:396:GLN:HG3	1:M:558:PHE:CZ	2.49	0.47
1:N:338:GLU:HG2	1:N:371:GLN:HB3	1.96	0.47
1:N:545:LYS:C	1:N:547:LEU:H	2.22	0.47
1:O:105:GLN:OE1	1:n:290:VAL:HG11	2.14	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:O:396:GLN:HG3	1:O:558:PHE:CZ	2.49	0.47
1:P:257:LEU:HD11	1:P:263:TRP:HB2	1.95	0.47
1:S:310:ASN:HB2	1:U:378:ILE:O	2.14	0.47
1:X:188:VAL:HB	1:e:289:SER:HA	1.95	0.47
1:X:404:GLN:NE2	1:X:443:ASP:N	2.58	0.47
1:Y:530:ASN:ND2	1:Z:547:LEU:HD21	2.28	0.47
1:b:338:GLU:HG2	1:b:371:GLN:HB3	1.96	0.47
1:c:310:ASN:HB2	1:o:378:ILE:O	2.14	0.47
1:h:338:GLU:HG2	1:h:371:GLN:HB3	1.96	0.47
1:i:338:GLU:HG2	1:i:371:GLN:HB3	1.96	0.47
1:j:257:LEU:HD11	1:j:263:TRP:HB2	1.95	0.47
1:j:545:LYS:C	1:j:547:LEU:H	2.22	0.47
1:n:540:GLY:O	1:n:541:THR:OG1	2.28	0.47
1:r:32:GLY:HA3	1:r:39:THR:HG22	1.95	0.47
1:r:396:GLN:HG3	1:r:558:PHE:CZ	2.49	0.47
1:t:396:GLN:HG3	1:t:558:PHE:CZ	2.49	0.47
1:v:32:GLY:HA3	1:v:39:THR:HG22	1.95	0.47
1:v:396:GLN:HG3	1:v:558:PHE:CZ	2.49	0.47
1:w:378:ILE:O	1:y:310:ASN:HB2	2.14	0.47
1:3:396:GLN:HG3	1:3:558:PHE:CZ	2.49	0.47
1:4:540:GLY:O	1:4:541:THR:OG1	2.28	0.47
1:5:188:VAL:HB	1:7:289:SER:HA	1.96	0.47
1:5:431:ASP:CG	1:6:340:ARG:HH22	2.22	0.47
1:B:314:TRP:O	1:J:375:GLU:HA	2.14	0.47
1:D:254:ILE:HB	1:E:42:TYR:HB3	1.95	0.47
1:E:340:ARG:HH22	1:F:431:ASP:CG	2.22	0.47
1:F:42:TYR:HB3	1:G:254:ILE:HB	1.94	0.47
1:K:257:LEU:HD11	1:K:263:TRP:HB2	1.95	0.47
1:N:531:LEU:CD1	1:O:128:GLN:CB	2.92	0.47
1:O:545:LYS:C	1:O:547:LEU:H	2.22	0.47
1:S:396:GLN:HG3	1:S:558:PHE:CZ	2.49	0.47
1:S:540:GLY:O	1:S:541:THR:OG1	2.28	0.47
1:U:531:LEU:CD1	1:V:128:GLN:CB	2.92	0.47
1:V:105:GLN:OE1	1:X:290:VAL:HG11	2.14	0.47
1:V:431:ASP:CG	1:e:340:ARG:HH22	2.22	0.47
1:Z:338:GLU:HG2	1:Z:371:GLN:HB3	1.96	0.47
1:Z:545:LYS:C	1:Z:547:LEU:H	2.22	0.47
1:a:128:GLN:CB	1:3:531:LEU:CD1	2.92	0.47
1:i:531:LEU:CD1	1:l:128:GLN:CB	2.92	0.47
1:i:545:LYS:C	1:i:547:LEU:H	2.22	0.47
1:m:289:SER:HA	1:n:188:VAL:HB	1.96	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:o:290:VAL:HG11	1:p:105:GLN:OE1	2.14	0.47
1:p:545:LYS:C	1:p:547:LEU:H	2.22	0.47
1:q:257:LEU:HD11	1:q:263:TRP:HB2	1.95	0.47
1:r:290:VAL:HG11	1:s:105:GLN:OE1	2.14	0.47
1:r:310:ASN:HB2	1:s:378:ILE:O	2.14	0.47
1:r:540:GLY:O	1:r:541:THR:OG1	2.28	0.47
1:s:32:GLY:HA3	1:s:39:THR:HG22	1.95	0.47
1:s:338:GLU:HG2	1:s:371:GLN:HB3	1.96	0.47
1:w:340:ARG:HH22	1:y:431:ASP:CG	2.22	0.47
1:x:289:SER:HA	1:y:188:VAL:HB	1.96	0.47
1:x:431:ASP:CG	1:y:340:ARG:HH22	2.22	0.47
1:3:257:LEU:HD11	1:3:263:TRP:HB2	1.95	0.47
1:8:545:LYS:C	1:8:547:LEU:H	2.22	0.47
1:D:396:GLN:HG3	1:D:558:PHE:CZ	2.49	0.47
1:E:105:GLN:OE1	1:F:290:VAL:HG11	2.14	0.47
1:F:396:GLN:HG3	1:F:558:PHE:CZ	2.49	0.47
1:G:290:VAL:HG11	1:I:105:GLN:OE1	2.14	0.47
1:H:188:VAL:HB	1:Y:289:SER:HA	1.96	0.47
1:L:396:GLN:HG3	1:L:558:PHE:CZ	2.49	0.47
1:M:540:GLY:O	1:M:541:THR:OG1	2.28	0.47
1:N:290:VAL:HG11	1:P:105:GLN:OE1	2.14	0.47
1:R:257:LEU:HD11	1:R:263:TRP:HB2	1.95	0.47
1:R:314:TRP:O	1:S:375:GLU:HA	2.14	0.47
1:R:396:GLN:HG3	1:R:558:PHE:CZ	2.49	0.47
1:S:290:VAL:HG11	1:U:105:GLN:OE1	2.14	0.47
1:S:356:PHE:HE1	1:S:358:GLN:HE21	1.61	0.47
1:T:105:GLN:OE1	1:l:290:VAL:HG11	2.14	0.47
1:T:289:SER:HA	1:d:188:VAL:HB	1.96	0.47
1:U:338:GLU:HG2	1:U:371:GLN:HB3	1.96	0.47
1:V:289:SER:HA	1:e:188:VAL:HB	1.95	0.47
1:V:545:LYS:C	1:V:547:LEU:H	2.22	0.47
1:X:378:ILE:O	1:e:310:ASN:HB2	2.14	0.47
1:a:531:LEU:CD1	1:3:128:GLN:CB	2.92	0.47
1:b:396:GLN:HG3	1:b:558:PHE:CZ	2.49	0.47
1:c:289:SER:HA	1:o:188:VAL:HB	1.95	0.47
1:c:340:ARG:HH22	1:p:431:ASP:CG	2.22	0.47
1:d:545:LYS:C	1:d:547:LEU:H	2.22	0.47
1:e:531:LEU:CD1	1:f:128:GLN:CB	2.92	0.47
1:f:396:GLN:HG3	1:f:558:PHE:CZ	2.49	0.47
1:g:338:GLU:HG2	1:g:371:GLN:HB3	1.96	0.47
1:h:540:GLY:O	1:h:541:THR:OG1	2.28	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:i:245:PHE:CZ	1:i:247:PRO:HG3	2.48	0.47
1:l:545:LYS:C	1:l:547:LEU:H	2.22	0.47
1:n:545:LYS:C	1:n:547:LEU:H	2.22	0.47
1:p:540:GLY:O	1:p:541:THR:OG1	2.28	0.47
1:q:396:GLN:HG3	1:q:558:PHE:CZ	2.49	0.47
1:t:128:GLN:CB	1:5:531:LEU:CD1	2.92	0.47
1:u:290:VAL:HG11	1:v:105:GLN:OE1	2.14	0.47
1:w:356:PHE:HE1	1:w:358:GLN:HE21	1.61	0.47
1:x:545:LYS:C	1:x:547:LEU:H	2.22	0.47
1:8:338:GLU:HG2	1:8:371:GLN:HB3	1.96	0.47
1:A:105:GLN:OE1	1:I:290:VAL:HG11	2.15	0.47
1:A:378:ILE:O	1:I:310:ASN:HB2	2.14	0.47
1:A:531:LEU:CD1	1:F:128:GLN:CB	2.93	0.47
1:C:338:GLU:HG2	1:C:371:GLN:HB3	1.96	0.47
1:E:289:SER:HA	1:Q:188:VAL:HB	1.95	0.47
1:E:356:PHE:HE1	1:E:358:GLN:HE21	1.61	0.47
1:E:378:ILE:O	1:F:310:ASN:HB2	2.15	0.47
1:F:545:LYS:C	1:F:547:LEU:H	2.22	0.47
1:J:310:ASN:HB2	1:L:378:ILE:O	2.14	0.47
1:L:338:GLU:HG2	1:L:371:GLN:HB3	1.96	0.47
1:M:257:LEU:HD11	1:M:263:TRP:HB2	1.95	0.47
1:O:290:VAL:HG11	1:m:105:GLN:OE1	2.14	0.47
1:P:404:GLN:NE2	1:P:443:ASP:N	2.58	0.47
1:Q:531:LEU:CD1	1:R:128:GLN:CB	2.93	0.47
1:R:431:ASP:CG	1:S:340:ARG:HH22	2.22	0.47
1:S:257:LEU:HD11	1:S:263:TRP:HB2	1.95	0.47
1:T:431:ASP:CG	1:d:340:ARG:HH22	2.22	0.47
1:U:32:GLY:HA3	1:U:39:THR:HG22	1.95	0.47
1:X:396:GLN:HG3	1:X:558:PHE:CZ	2.49	0.47
1:Y:531:LEU:CD1	1:Z:128:GLN:CB	2.92	0.47
1:b:128:GLN:CB	1:c:531:LEU:CD1	2.93	0.47
1:c:188:VAL:HB	1:p:289:SER:HA	1.95	0.47
1:d:396:GLN:HG3	1:d:558:PHE:CZ	2.49	0.47
1:h:257:LEU:HD11	1:h:263:TRP:HB2	1.95	0.47
1:i:290:VAL:HG11	1:j:105:GLN:OE1	2.14	0.47
1:i:431:ASP:CG	1:j:340:ARG:HH22	2.22	0.47
1:j:310:ASN:HB2	1:k:378:ILE:O	2.15	0.47
1:k:396:GLN:HG3	1:k:558:PHE:CZ	2.49	0.47
1:m:431:ASP:CG	1:n:340:ARG:HH22	2.22	0.47
1:o:396:GLN:HG3	1:o:558:PHE:CZ	2.49	0.47
1:o:404:GLN:NE2	1:o:443:ASP:N	2.58	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:o:545:LYS:C	1:o:547:LEU:H	2.22	0.47
1:q:128:GLN:CB	1:x:531:LEU:CD1	2.93	0.47
1:q:314:TRP:O	1:r:375:GLU:HA	2.14	0.47
1:q:431:ASP:CG	1:r:340:ARG:HH22	2.22	0.47
1:t:257:LEU:HD11	1:t:263:TRP:HB2	1.95	0.47
1:t:290:VAL:HG11	1:u:105:GLN:OE1	2.14	0.47
1:u:310:ASN:HB2	1:v:378:ILE:O	2.14	0.47
1:w:105:GLN:OE1	1:y:290:VAL:HG11	2.14	0.47
1:y:396:GLN:HG3	1:y:558:PHE:CZ	2.49	0.47
1:z:396:GLN:HG3	1:z:558:PHE:CZ	2.49	0.47
1:7:531:LEU:CD1	1:8:128:GLN:CB	2.92	0.47
1:A:545:LYS:C	1:A:547:LEU:H	2.22	0.47
1:D:378:ILE:O	1:P:310:ASN:HB2	2.15	0.47
1:E:545:LYS:C	1:E:547:LEU:H	2.22	0.47
1:E:547:LEU:HD21	1:P:530:ASN:ND2	2.28	0.47
1:G:128:GLN:CB	1:H:531:LEU:CD1	2.92	0.47
1:G:257:LEU:HD11	1:G:263:TRP:HB2	1.95	0.47
1:M:32:GLY:HA3	1:M:39:THR:HG22	1.95	0.47
1:N:356:PHE:HE1	1:N:358:GLN:HE21	1.61	0.47
1:T:356:PHE:HE1	1:T:358:GLN:HE21	1.61	0.47
1:U:128:GLN:CB	1:V:531:LEU:CD1	2.92	0.47
1:U:283:SER:H	1:U:286:HIS:HD2	1.63	0.47
1:V:378:ILE:O	1:X:310:ASN:HB2	2.15	0.47
1:X:338:GLU:HG2	1:X:371:GLN:HB3	1.96	0.47
1:Y:257:LEU:HD11	1:Y:263:TRP:HB2	1.95	0.47
1:Z:290:VAL:HG11	1:4:105:GLN:OE1	2.14	0.47
1:Z:528:GLN:OE1	1:4:244:GLN:HG2	2.13	0.47
1:a:257:LEU:HD11	1:a:263:TRP:HB2	1.95	0.47
1:j:530:ASN:ND2	1:w:547:LEU:HD21	2.28	0.47
1:n:396:GLN:HG3	1:n:558:PHE:CZ	2.49	0.47
1:o:338:GLU:HG2	1:o:371:GLN:HB3	1.96	0.47
1:r:257:LEU:HD11	1:r:263:TRP:HB2	1.95	0.47
1:r:404:GLN:NE2	1:r:443:ASP:N	2.58	0.47
1:s:283:SER:H	1:s:286:HIS:HD2	1.63	0.47
1:v:531:LEU:CD1	1:y:128:GLN:CB	2.93	0.47
1:v:545:LYS:C	1:v:547:LEU:H	2.22	0.47
1:w:545:LYS:C	1:w:547:LEU:H	2.22	0.47
1:z:314:TRP:O	1:1:375:GLU:HA	2.14	0.47
1:z:338:GLU:HG2	1:z:371:GLN:HB3	1.96	0.47
1:5:545:LYS:C	1:5:547:LEU:H	2.22	0.47
1:6:32:GLY:HA3	1:6:39:THR:HG22	1.95	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:7:257:LEU:HD11	1:7:263:TRP:HB2	1.95	0.47
1:A:283:SER:H	1:A:286:HIS:HD2	1.63	0.47
1:C:283:SER:H	1:C:286:HIS:HD2	1.63	0.47
1:D:531:LEU:CD1	1:M:128:GLN:CB	2.92	0.47
1:H:545:LYS:C	1:H:547:LEU:H	2.22	0.47
1:K:105:GLN:OE1	1:8:290:VAL:HG11	2.14	0.47
1:K:310:ASN:HB2	1:a:378:ILE:O	2.14	0.47
1:N:431:ASP:CG	1:P:340:ARG:HH22	2.22	0.47
1:R:105:GLN:OE1	1:U:290:VAL:HG11	2.15	0.47
1:V:188:VAL:HB	1:X:289:SER:HA	1.96	0.47
1:V:404:GLN:NE2	1:V:443:ASP:N	2.58	0.47
1:W:545:LYS:C	1:W:547:LEU:H	2.22	0.47
1:X:283:SER:H	1:X:286:HIS:HD2	1.63	0.47
1:d:338:GLU:HG2	1:d:371:GLN:HB3	1.96	0.47
1:h:32:GLY:HA3	1:h:39:THR:HG22	1.95	0.47
1:i:356:PHE:HE1	1:i:358:GLN:HE21	1.61	0.47
1:j:404:GLN:NE2	1:j:443:ASP:N	2.58	0.47
1:m:356:PHE:HE1	1:m:358:GLN:HE21	1.61	0.47
1:o:289:SER:HA	1:p:188:VAL:HB	1.96	0.47
1:p:531:LEU:CD1	1:s:128:GLN:CB	2.92	0.47
1:q:105:GLN:OE1	1:s:290:VAL:HG11	2.15	0.47
1:s:396:GLN:HG3	1:s:558:PHE:CZ	2.49	0.47
1:v:257:LEU:HD11	1:v:263:TRP:HB2	1.95	0.47
1:v:283:SER:H	1:v:286:HIS:HD2	1.63	0.47
1:w:289:SER:HA	1:x:188:VAL:HB	1.95	0.47
1:y:545:LYS:C	1:y:547:LEU:H	2.22	0.47
1:z:431:ASP:CG	1:1:340:ARG:HH22	2.23	0.47
1:2:531:LEU:CD1	1:4:128:GLN:CB	2.93	0.47
1:5:289:SER:HA	1:6:188:VAL:HB	1.96	0.47
1:5:310:ASN:HB2	1:6:378:ILE:O	2.15	0.47
1:A:257:LEU:HD11	1:A:263:TRP:HB2	1.95	0.47
1:A:290:VAL:HG11	1:G:105:GLN:OE1	2.15	0.47
1:B:396:GLN:HG3	1:B:558:PHE:CZ	2.49	0.47
1:C:334:TYR:CD2	1:C:442:VAL:HG11	2.50	0.47
1:D:105:GLN:OE1	1:P:290:VAL:HG11	2.14	0.47
1:E:338:GLU:HG2	1:E:371:GLN:HB3	1.96	0.47
1:F:334:TYR:CD2	1:F:442:VAL:HG11	2.50	0.47
1:F:338:GLU:HG2	1:F:371:GLN:HB3	1.96	0.47
1:G:310:ASN:HB2	1:I:378:ILE:O	2.15	0.47
1:H:257:LEU:HD11	1:H:263:TRP:HB2	1.95	0.47
1:H:289:SER:HA	1:W:188:VAL:HB	1.96	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:310:ASN:HB2	1:W:378:ILE:O	2.15	0.47
1:I:545:LYS:C	1:I:547:LEU:H	2.22	0.47
1:J:531:LEU:CD1	1:K:128:GLN:CB	2.93	0.47
1:K:244:GLN:HG2	1:8:528:GLN:OE1	2.13	0.47
1:K:334:TYR:CD2	1:K:442:VAL:HG11	2.50	0.47
1:M:375:GLU:HA	1:b:314:TRP:O	2.15	0.47
1:P:396:GLN:HG3	1:P:558:PHE:CZ	2.49	0.47
1:R:334:TYR:CD2	1:R:442:VAL:HG11	2.50	0.47
1:S:404:GLN:NE2	1:S:443:ASP:N	2.58	0.47
1:T:334:TYR:CD2	1:T:442:VAL:HG11	2.50	0.47
1:T:545:LYS:C	1:T:547:LEU:H	2.22	0.47
1:U:334:TYR:CD2	1:U:442:VAL:HG11	2.50	0.47
1:U:396:GLN:HG3	1:U:558:PHE:CZ	2.49	0.47
1:V:283:SER:H	1:V:286:HIS:HD2	1.63	0.47
1:W:32:GLY:HA3	1:W:39:THR:HG22	1.95	0.47
1:W:310:ASN:HB2	1:Y:378:ILE:O	2.15	0.47
1:W:396:GLN:HG3	1:W:558:PHE:CZ	2.49	0.47
1:X:545:LYS:C	1:X:547:LEU:H	2.22	0.47
1:Y:545:LYS:C	1:Y:547:LEU:H	2.22	0.47
1:c:338:GLU:HG2	1:c:371:GLN:HB3	1.96	0.47
1:c:378:ILE:O	1:p:310:ASN:HB2	2.15	0.47
1:e:128:GLN:CB	1:f:531:LEU:CD1	2.93	0.47
1:e:338:GLU:HG2	1:e:371:GLN:HB3	1.96	0.47
1:f:314:TRP:O	1:h:375:GLU:HA	2.15	0.47
1:g:334:TYR:CD2	1:g:442:VAL:HG11	2.50	0.47
1:h:128:GLN:CB	1:k:531:LEU:CD1	2.92	0.47
1:j:128:GLN:CB	1:w:531:LEU:CD1	2.92	0.47
1:j:289:SER:HA	1:k:188:VAL:HB	1.96	0.47
1:m:257:LEU:HD11	1:m:263:TRP:HB2	1.95	0.47
1:m:334:TYR:CD2	1:m:442:VAL:HG11	2.50	0.47
1:m:396:GLN:HG3	1:m:558:PHE:CZ	2.49	0.47
1:n:334:TYR:CD2	1:n:442:VAL:HG11	2.50	0.47
1:n:338:GLU:HG2	1:n:371:GLN:HB3	1.96	0.47
1:o:128:GLN:CB	1:6:531:LEU:CD1	2.92	0.47
1:o:283:SER:H	1:o:286:HIS:HD2	1.63	0.47
1:o:310:ASN:HB2	1:p:378:ILE:O	2.15	0.47
1:o:431:ASP:CG	1:p:340:ARG:HH22	2.22	0.47
1:p:404:GLN:NE2	1:p:443:ASP:N	2.58	0.47
1:q:334:TYR:CD2	1:q:442:VAL:HG11	2.50	0.47
1:s:334:TYR:CD2	1:s:442:VAL:HG11	2.50	0.47
1:t:105:GLN:OE1	1:v:290:VAL:HG11	2.14	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:v:334:TYR:CD2	1:v:442:VAL:HG11	2.50	0.47
1:w:338:GLU:HG2	1:w:371:GLN:HB3	1.96	0.47
1:w:404:GLN:NE2	1:w:443:ASP:N	2.58	0.47
1:x:338:GLU:HG2	1:x:371:GLN:HB3	1.96	0.47
1:y:334:TYR:CD2	1:y:442:VAL:HG11	2.50	0.47
1:y:338:GLU:HG2	1:y:371:GLN:HB3	1.96	0.47
1:1:396:GLN:HG3	1:1:558:PHE:CZ	2.49	0.47
1:2:334:TYR:CD2	1:2:442:VAL:HG11	2.50	0.47
1:3:188:VAL:HB	1:4:289:SER:HA	1.96	0.47
1:3:378:ILE:O	1:4:310:ASN:HB2	2.14	0.47
1:3:545:LYS:C	1:3:547:LEU:H	2.22	0.47
1:5:290:VAL:HG11	1:6:105:GLN:OE1	2.14	0.47
1:5:378:ILE:O	1:7:310:ASN:HB2	2.15	0.47
1:6:310:ASN:HB2	1:7:378:ILE:O	2.15	0.47
1:6:396:GLN:HG3	1:6:558:PHE:CZ	2.49	0.47
1:6:545:LYS:C	1:6:547:LEU:H	2.22	0.47
1:7:128:GLN:CB	1:8:531:LEU:CD1	2.92	0.47
1:A:128:GLN:CB	1:F:531:LEU:CD1	2.92	0.47
1:A:334:TYR:CD2	1:A:442:VAL:HG11	2.50	0.47
1:C:396:GLN:HG3	1:C:558:PHE:CZ	2.49	0.47
1:C:531:LEU:CD1	1:L:128:GLN:CB	2.92	0.47
1:D:188:VAL:HB	1:P:289:SER:HA	1.96	0.47
1:F:105:GLN:OE1	1:Q:290:VAL:HG11	2.15	0.47
1:F:378:ILE:O	1:Q:310:ASN:HB2	2.14	0.47
1:H:290:VAL:HG11	1:W:105:GLN:OE1	2.14	0.47
1:H:378:ILE:O	1:Y:310:ASN:HB2	2.15	0.47
1:J:334:TYR:CD2	1:J:442:VAL:HG11	2.50	0.47
1:N:334:TYR:CD2	1:N:442:VAL:HG11	2.50	0.47
1:O:378:ILE:O	1:n:310:ASN:HB2	2.15	0.47
1:Q:283:SER:H	1:Q:286:HIS:HD2	1.63	0.47
1:Q:338:GLU:HG2	1:Q:371:GLN:HB3	1.96	0.47
1:T:257:LEU:HD11	1:T:263:TRP:HB2	1.95	0.47
1:T:396:GLN:HG3	1:T:558:PHE:CZ	2.49	0.47
1:V:340:ARG:HH22	1:X:431:ASP:CG	2.22	0.47
1:W:531:LEU:CD1	1:X:128:GLN:CB	2.93	0.47
1:Y:128:GLN:CB	1:Z:531:LEU:CD1	2.92	0.47
1:d:310:ASN:HB2	1:l:378:ILE:O	2.15	0.47
1:d:334:TYR:CD2	1:d:442:VAL:HG11	2.50	0.47
1:f:32:GLY:HA3	1:f:39:THR:HG22	1.95	0.47
1:g:283:SER:H	1:g:286:HIS:HD2	1.63	0.47
1:i:334:TYR:CD2	1:i:442:VAL:HG11	2.50	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:i:396:GLN:HG3	1:i:558:PHE:CZ	2.49	0.47
1:j:396:GLN:HG3	1:j:558:PHE:CZ	2.49	0.47
1:r:283:SER:H	1:r:286:HIS:HD2	1.63	0.47
1:u:531:LEU:CD1	1:1:128:GLN:CB	2.92	0.47
1:x:290:VAL:HG11	1:y:105:GLN:OE1	2.14	0.47
1:x:310:ASN:HB2	1:y:378:ILE:O	2.14	0.47
1:3:334:TYR:CD2	1:3:442:VAL:HG11	2.50	0.47
1:5:257:LEU:HD11	1:5:263:TRP:HB2	1.95	0.47
1:5:404:GLN:NE2	1:5:443:ASP:N	2.58	0.47
1:6:338:GLU:HG2	1:6:371:GLN:HB3	1.96	0.47
1:7:545:LYS:C	1:7:547:LEU:H	2.22	0.47
1:B:318:SER:HB2	1:J:376:LYS:HZ1	1.79	0.47
1:C:310:ASN:HB2	1:b:378:ILE:O	2.15	0.47
1:D:283:SER:H	1:D:286:HIS:HD2	1.63	0.47
1:D:290:VAL:HG11	1:N:105:GLN:OE1	2.14	0.47
1:E:188:VAL:HB	1:F:289:SER:HA	1.96	0.47
1:H:334:TYR:CD2	1:H:442:VAL:HG11	2.50	0.47
1:H:338:GLU:HG2	1:H:371:GLN:HB3	1.96	0.47
1:K:289:SER:HA	1:a:188:VAL:HB	1.96	0.47
1:N:396:GLN:HG3	1:N:558:PHE:CZ	2.49	0.47
1:P:540:GLY:O	1:P:541:THR:OG1	2.28	0.47
1:S:283:SER:H	1:S:286:HIS:HD2	1.63	0.47
1:Z:105:GLN:OE1	1:3:290:VAL:HG11	2.14	0.47
1:Z:310:ASN:HB2	1:4:378:ILE:O	2.15	0.47
1:Z:378:ILE:O	1:3:310:ASN:HB2	2.15	0.47
1:a:334:TYR:CD2	1:a:442:VAL:HG11	2.50	0.47
1:a:545:LYS:C	1:a:547:LEU:H	2.22	0.47
1:c:290:VAL:HG11	1:o:105:GLN:OE1	2.15	0.47
1:f:404:GLN:NE2	1:f:443:ASP:N	2.58	0.47
1:i:105:GLN:OE1	1:k:290:VAL:HG11	2.14	0.47
1:k:283:SER:H	1:k:286:HIS:HD2	1.63	0.47
1:p:283:SER:H	1:p:286:HIS:HD2	1.63	0.47
1:r:186:PRO:HG2	1:r:212:TYR:CD1	2.50	0.47
1:t:310:ASN:HB2	1:u:378:ILE:O	2.15	0.47
1:u:338:GLU:HG2	1:u:371:GLN:HB3	1.96	0.47
1:v:128:GLN:CB	1:y:531:LEU:CD1	2.93	0.47
1:w:283:SER:H	1:w:286:HIS:HD2	1.63	0.47
1:1:290:VAL:HG11	1:2:105:GLN:OE1	2.15	0.47
1:4:334:TYR:CD2	1:4:442:VAL:HG11	2.50	0.47
1:B:128:GLN:CB	1:I:531:LEU:CD1	2.93	0.47
1:B:188:VAL:HB	1:L:289:SER:HA	1.96	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:128:GLN:CB	1:L:531:LEU:CD1	2.92	0.47
1:D:334:TYR:CD2	1:D:442:VAL:HG11	2.50	0.47
1:E:283:SER:H	1:E:286:HIS:HD2	1.63	0.47
1:J:186:PRO:HG2	1:J:212:TYR:CD1	2.50	0.47
1:J:338:GLU:HG2	1:J:371:GLN:HB3	1.96	0.47
1:L:334:TYR:CD2	1:L:442:VAL:HG11	2.50	0.47
1:S:186:PRO:HG2	1:S:212:TYR:CD1	2.50	0.47
1:S:334:TYR:CD2	1:S:442:VAL:HG11	2.50	0.47
1:T:283:SER:H	1:T:286:HIS:HD2	1.63	0.47
1:U:186:PRO:HG2	1:U:212:TYR:CD1	2.50	0.47
1:V:310:ASN:HB2	1:e:378:ILE:O	2.15	0.47
1:V:334:TYR:CD2	1:V:442:VAL:HG11	2.50	0.47
1:W:338:GLU:HG2	1:W:371:GLN:HB3	1.96	0.47
1:X:105:GLN:OE1	1:e:290:VAL:HG11	2.15	0.47
1:a:290:VAL:HG11	1:8:105:GLN:OE1	2.14	0.47
1:a:310:ASN:HB2	1:8:378:ILE:O	2.15	0.47
1:b:283:SER:H	1:b:286:HIS:HD2	1.63	0.47
1:b:404:GLN:NE2	1:b:443:ASP:N	2.58	0.47
1:f:283:SER:H	1:f:286:HIS:HD2	1.63	0.47
1:f:334:TYR:CD2	1:f:442:VAL:HG11	2.50	0.47
1:g:128:GLN:CB	1:z:531:LEU:CD1	2.92	0.47
1:g:396:GLN:HG3	1:g:558:PHE:CZ	2.49	0.47
1:g:547:LEU:HD21	1:z:530:ASN:ND2	2.30	0.47
1:h:283:SER:H	1:h:286:HIS:HD2	1.63	0.47
1:h:531:LEU:CD1	1:k:128:GLN:CB	2.92	0.47
1:i:283:SER:H	1:i:286:HIS:HD2	1.63	0.47
1:j:290:VAL:HG11	1:k:105:GLN:OE1	2.14	0.47
1:k:32:GLY:HA3	1:k:39:THR:HG22	1.95	0.47
1:m:283:SER:H	1:m:286:HIS:HD2	1.63	0.47
1:m:531:LEU:CD1	1:r:128:GLN:CB	2.92	0.47
1:m:545:LYS:C	1:m:547:LEU:H	2.22	0.47
1:p:334:TYR:CD2	1:p:442:VAL:HG11	2.50	0.47
1:r:334:TYR:CD2	1:r:442:VAL:HG11	2.50	0.47
1:s:186:PRO:HG2	1:s:212:TYR:CD1	2.50	0.47
1:x:283:SER:H	1:x:286:HIS:HD2	1.63	0.47
1:z:188:VAL:HB	1:2:289:SER:HA	1.95	0.47
1:2:186:PRO:HG2	1:2:212:TYR:CD1	2.50	0.47
1:5:334:TYR:CD2	1:5:442:VAL:HG11	2.50	0.47
1:5:338:GLU:HG2	1:5:371:GLN:HB3	1.96	0.47
1:7:186:PRO:HG2	1:7:212:TYR:CD1	2.50	0.47
1:8:396:GLN:HG3	1:8:558:PHE:CZ	2.49	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:32:GLY:HA3	1:D:39:THR:HG22	1.95	0.46
1:D:128:GLN:CB	1:M:531:LEU:CD1	2.92	0.46
1:E:404:GLN:NE2	1:E:443:ASP:N	2.58	0.46
1:E:531:LEU:CD1	1:P:128:GLN:CB	2.92	0.46
1:I:338:GLU:HG2	1:I:371:GLN:HB3	1.96	0.46
1:K:378:ILE:O	1:8:310:ASN:HB2	2.15	0.46
1:M:105:GLN:OE1	1:b:290:VAL:HG11	2.15	0.46
1:M:283:SER:H	1:M:286:HIS:HD2	1.63	0.46
1:N:283:SER:H	1:N:286:HIS:HD2	1.63	0.46
1:P:217:TRP:O	1:P:236:LYS:HA	2.16	0.46
1:S:128:GLN:CB	1:T:531:LEU:CD1	2.92	0.46
1:T:378:ILE:O	1:l:310:ASN:HB2	2.15	0.46
1:W:186:PRO:HG2	1:W:212:TYR:CD1	2.50	0.46
1:Y:186:PRO:HG2	1:Y:212:TYR:CD1	2.50	0.46
1:Z:396:GLN:HG3	1:Z:558:PHE:CZ	2.49	0.46
1:b:32:GLY:HA3	1:b:39:THR:HG22	1.95	0.46
1:b:217:TRP:O	1:b:236:LYS:HA	2.16	0.46
1:b:334:TYR:CD2	1:b:442:VAL:HG11	2.50	0.46
1:d:186:PRO:HG2	1:d:212:TYR:CD1	2.50	0.46
1:f:105:GLN:OE1	1:g:290:VAL:HG11	2.14	0.46
1:f:217:TRP:O	1:f:236:LYS:HA	2.16	0.46
1:f:378:ILE:O	1:g:310:ASN:HB2	2.15	0.46
1:j:338:GLU:HG2	1:j:371:GLN:HB3	1.96	0.46
1:k:334:TYR:CD2	1:k:442:VAL:HG11	2.50	0.46
1:n:186:PRO:HG2	1:n:212:TYR:CD1	2.50	0.46
1:z:340:ARG:HH22	1:2:431:ASP:CG	2.23	0.46
1:1:217:TRP:O	1:1:236:LYS:HA	2.16	0.46
1:6:186:PRO:HG2	1:6:212:TYR:CD1	2.50	0.46
1:A:186:PRO:HG2	1:A:212:TYR:CD1	2.50	0.46
1:A:445:VAL:HG11	1:A:448:GLN:NE2	2.31	0.46
1:B:356:PHE:HE1	1:B:358:GLN:HE21	1.61	0.46
1:C:290:VAL:HG11	1:b:105:GLN:OE1	2.14	0.46
1:E:314:TRP:O	1:Q:375:GLU:HA	2.16	0.46
1:L:217:TRP:O	1:L:236:LYS:HA	2.16	0.46
1:M:340:ARG:HH22	1:b:431:ASP:CG	2.22	0.46
1:P:338:GLU:HG2	1:P:371:GLN:HB3	1.96	0.46
1:T:186:PRO:HG2	1:T:212:TYR:CD1	2.50	0.46
1:X:217:TRP:O	1:X:236:LYS:HA	2.16	0.46
1:X:445:VAL:HG11	1:X:448:GLN:NE2	2.31	0.46
1:Y:283:SER:H	1:Y:286:HIS:HD2	1.63	0.46
1:c:404:GLN:NE2	1:c:443:ASP:N	2.58	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:f:375:GLU:HA	1:g:314:TRP:O	2.16	0.46
1:f:431:ASP:CG	1:h:340:ARG:HH22	2.22	0.46
1:g:530:ASN:ND2	1:z:547:LEU:HD21	2.30	0.46
1:j:217:TRP:O	1:j:236:LYS:HA	2.16	0.46
1:j:540:GLY:O	1:j:541:THR:OG1	2.28	0.46
1:l:338:GLU:HG2	1:l:371:GLN:HB3	1.96	0.46
1:m:186:PRO:HG2	1:m:212:TYR:CD1	2.50	0.46
1:o:445:VAL:HG11	1:o:448:GLN:NE2	2.31	0.46
1:r:338:GLU:HG2	1:r:371:GLN:HB3	1.96	0.46
1:u:128:GLN:CB	1:1:531:LEU:CD1	2.92	0.46
1:v:186:PRO:HG2	1:v:212:TYR:CD1	2.50	0.46
1:v:445:VAL:HG11	1:v:448:GLN:NE2	2.31	0.46
1:w:188:VAL:HB	1:y:289:SER:HA	1.96	0.46
1:w:310:ASN:HB2	1:x:378:ILE:O	2.15	0.46
1:w:334:TYR:CD2	1:w:442:VAL:HG11	2.50	0.46
1:z:217:TRP:O	1:z:236:LYS:HA	2.16	0.46
1:z:334:TYR:CD2	1:z:442:VAL:HG11	2.50	0.46
1:2:217:TRP:O	1:2:236:LYS:HA	2.16	0.46
1:2:338:GLU:HG2	1:2:371:GLN:HB3	1.96	0.46
1:3:217:TRP:O	1:3:236:LYS:HA	2.16	0.46
1:5:105:GLN:OE1	1:7:290:VAL:HG11	2.14	0.46
1:7:445:VAL:HG11	1:7:448:GLN:NE2	2.31	0.46
1:B:217:TRP:O	1:B:236:LYS:HA	2.16	0.46
1:C:217:TRP:O	1:C:236:LYS:HA	2.16	0.46
1:G:283:SER:H	1:G:286:HIS:HD2	1.63	0.46
1:G:356:PHE:HE1	1:G:358:GLN:NE2	2.14	0.46
1:H:105:GLN:OE1	1:Y:290:VAL:HG11	2.14	0.46
1:I:217:TRP:O	1:I:236:LYS:HA	2.16	0.46
1:I:334:TYR:CD2	1:I:442:VAL:HG11	2.50	0.46
1:J:217:TRP:O	1:J:236:LYS:HA	2.16	0.46
1:K:283:SER:H	1:K:286:HIS:HD2	1.63	0.46
1:O:310:ASN:HB2	1:m:378:ILE:O	2.15	0.46
1:O:338:GLU:HG2	1:O:371:GLN:HB3	1.96	0.46
1:P:186:PRO:HG2	1:P:212:TYR:CD1	2.50	0.46
1:R:338:GLU:HG2	1:R:371:GLN:HB3	1.96	0.46
1:S:217:TRP:O	1:S:236:LYS:HA	2.16	0.46
1:S:338:GLU:HG2	1:S:371:GLN:HB3	1.96	0.46
1:S:545:LYS:C	1:S:547:LEU:H	2.22	0.46
1:T:338:GLU:HG2	1:T:371:GLN:HB3	1.96	0.46
1:V:314:TRP:O	1:e:375:GLU:HA	2.15	0.46
1:Y:445:VAL:HG11	1:Y:448:GLN:NE2	2.31	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:a:217:TRP:O	1:a:236:LYS:HA	2.16	0.46
1:b:186:PRO:HG2	1:b:212:TYR:CD1	2.50	0.46
1:d:531:LEU:CD1	1:n:128:GLN:CB	2.92	0.46
1:f:186:PRO:HG2	1:f:212:TYR:CD1	2.51	0.46
1:f:290:VAL:HG11	1:h:105:GLN:OE1	2.15	0.46
1:g:217:TRP:O	1:g:236:LYS:HA	2.16	0.46
1:j:186:PRO:HG2	1:j:212:TYR:CD1	2.50	0.46
1:k:338:GLU:HG2	1:k:371:GLN:HB3	1.96	0.46
1:o:217:TRP:O	1:o:236:LYS:HA	2.16	0.46
1:p:186:PRO:HG2	1:p:212:TYR:CD1	2.50	0.46
1:q:338:GLU:HG2	1:q:371:GLN:HB3	1.96	0.46
1:r:217:TRP:O	1:r:236:LYS:HA	2.16	0.46
1:t:283:SER:H	1:t:286:HIS:HD2	1.63	0.46
1:u:217:TRP:O	1:u:236:LYS:HA	2.16	0.46
1:u:334:TYR:CD2	1:u:442:VAL:HG11	2.50	0.46
1:z:445:VAL:HG11	1:z:448:GLN:NE2	2.31	0.46
1:2:445:VAL:HG11	1:2:448:GLN:NE2	2.31	0.46
1:4:283:SER:H	1:4:286:HIS:HD2	1.63	0.46
1:7:283:SER:H	1:7:286:HIS:HD2	1.63	0.46
1:A:355:PRO:HA	1:A:372:GLY:O	2.16	0.46
1:A:375:GLU:HA	1:I:314:TRP:O	2.16	0.46
1:B:105:GLN:OE1	1:L:290:VAL:HG11	2.15	0.46
1:B:531:LEU:CD1	1:I:128:GLN:CB	2.93	0.46
1:E:334:TYR:CD2	1:E:442:VAL:HG11	2.50	0.46
1:G:186:PRO:HG2	1:G:212:TYR:CD1	2.51	0.46
1:J:445:VAL:HG11	1:J:448:GLN:NE2	2.31	0.46
1:L:445:VAL:HG11	1:L:448:GLN:NE2	2.31	0.46
1:M:186:PRO:HG2	1:M:212:TYR:CD1	2.51	0.46
1:O:283:SER:H	1:O:286:HIS:HD2	1.63	0.46
1:P:445:VAL:HG11	1:P:448:GLN:NE2	2.31	0.46
1:T:356:PHE:HE1	1:T:358:GLN:NE2	2.14	0.46
1:T:445:VAL:HG11	1:T:448:GLN:NE2	2.31	0.46
1:T:540:GLY:O	1:T:541:THR:OG1	2.28	0.46
1:a:445:VAL:HG11	1:a:448:GLN:NE2	2.31	0.46
1:c:356:PHE:HE1	1:c:358:GLN:NE2	2.14	0.46
1:c:445:VAL:HG11	1:c:448:GLN:NE2	2.31	0.46
1:d:128:GLN:CB	1:n:531:LEU:CD1	2.92	0.46
1:d:217:TRP:O	1:d:236:LYS:HA	2.16	0.46
1:e:355:PRO:HA	1:e:372:GLY:O	2.16	0.46
1:e:356:PHE:HE1	1:e:358:GLN:NE2	2.14	0.46
1:e:445:VAL:HG11	1:e:448:GLN:NE2	2.31	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:j:445:VAL:HG11	1:j:448:GLN:NE2	2.31	0.46
1:l:283:SER:H	1:l:286:HIS:HD2	1.63	0.46
1:m:338:GLU:HG2	1:m:371:GLN:HB3	1.96	0.46
1:n:445:VAL:HG11	1:n:448:GLN:NE2	2.31	0.46
1:r:545:LYS:C	1:r:547:LEU:H	2.22	0.46
1:t:186:PRO:HG2	1:t:212:TYR:CD1	2.51	0.46
1:t:338:GLU:HG2	1:t:371:GLN:HB3	1.96	0.46
1:t:356:PHE:HE1	1:t:358:GLN:NE2	2.14	0.46
1:v:355:PRO:HA	1:v:372:GLY:O	2.16	0.46
1:w:356:PHE:HE1	1:w:358:GLN:NE2	2.14	0.46
1:1:356:PHE:HE1	1:1:358:GLN:HE21	1.61	0.46
1:3:186:PRO:HG2	1:3:212:TYR:CD1	2.50	0.46
1:3:445:VAL:HG11	1:3:448:GLN:NE2	2.31	0.46
1:5:217:TRP:O	1:5:236:LYS:HA	2.16	0.46
1:5:375:GLU:HA	1:7:314:TRP:O	2.16	0.46
1:A:356:PHE:HE1	1:A:358:GLN:NE2	2.14	0.46
1:B:334:TYR:CD2	1:B:442:VAL:HG11	2.50	0.46
1:C:314:TRP:O	1:b:375:GLU:HA	2.16	0.46
1:C:445:VAL:HG11	1:C:448:GLN:NE2	2.31	0.46
1:D:310:ASN:HB2	1:N:378:ILE:O	2.15	0.46
1:D:338:GLU:HG2	1:D:371:GLN:HB3	1.96	0.46
1:E:186:PRO:HG2	1:E:212:TYR:CD1	2.50	0.46
1:E:217:TRP:O	1:E:236:LYS:HA	2.16	0.46
1:E:356:PHE:HE1	1:E:358:GLN:NE2	2.14	0.46
1:F:445:VAL:HG11	1:F:448:GLN:NE2	2.31	0.46
1:G:338:GLU:HG2	1:G:371:GLN:HB3	1.96	0.46
1:G:531:LEU:CD1	1:H:128:GLN:CB	2.92	0.46
1:H:217:TRP:O	1:H:236:LYS:HA	2.16	0.46
1:H:375:GLU:HA	1:Y:314:TRP:O	2.16	0.46
1:J:128:GLN:CB	1:K:531:LEU:CD1	2.92	0.46
1:L:355:PRO:HA	1:L:372:GLY:O	2.16	0.46
1:N:217:TRP:O	1:N:236:LYS:HA	2.16	0.46
1:O:334:TYR:CD2	1:O:442:VAL:HG11	2.50	0.46
1:R:355:PRO:HA	1:R:372:GLY:O	2.16	0.46
1:V:186:PRO:HG2	1:V:212:TYR:CD1	2.51	0.46
1:a:186:PRO:HG2	1:a:212:TYR:CD1	2.50	0.46
1:c:186:PRO:HG2	1:c:212:TYR:CD1	2.50	0.46
1:c:355:PRO:HA	1:c:372:GLY:O	2.16	0.46
1:c:375:GLU:HA	1:p:314:TRP:O	2.16	0.46
1:d:445:VAL:HG11	1:d:448:GLN:NE2	2.31	0.46
1:e:186:PRO:HG2	1:e:212:TYR:CD1	2.50	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:e:404:GLN:NE2	1:e:443:ASP:N	2.58	0.46
1:h:186:PRO:HG2	1:h:212:TYR:CD1	2.51	0.46
1:m:310:ASN:HB2	1:n:378:ILE:O	2.14	0.46
1:m:356:PHE:HE1	1:m:358:GLN:NE2	2.14	0.46
1:m:445:VAL:HG11	1:m:448:GLN:NE2	2.31	0.46
1:n:217:TRP:O	1:n:236:LYS:HA	2.16	0.46
1:p:355:PRO:HA	1:p:372:GLY:O	2.16	0.46
1:s:356:PHE:HE1	1:s:358:GLN:NE2	2.14	0.46
1:t:531:LEU:CD1	1:5:128:GLN:CB	2.92	0.46
1:t:545:LYS:C	1:t:547:LEU:H	2.22	0.46
1:u:314:TRP:O	1:v:375:GLU:HA	2.16	0.46
1:w:217:TRP:O	1:w:236:LYS:HA	2.16	0.46
1:w:314:TRP:O	1:x:375:GLU:HA	2.16	0.46
1:y:445:VAL:HG11	1:y:448:GLN:NE2	2.31	0.46
1:z:283:SER:H	1:z:286:HIS:HD2	1.63	0.46
1:1:334:TYR:CD2	1:1:442:VAL:HG11	2.50	0.46
1:3:105:GLN:OE1	1:4:290:VAL:HG11	2.14	0.46
1:5:186:PRO:HG2	1:5:212:TYR:CD1	2.50	0.46
1:8:445:VAL:HG11	1:8:448:GLN:NE2	2.31	0.46
1:E:310:ASN:HB2	1:Q:378:ILE:O	2.16	0.46
1:F:356:PHE:HE1	1:F:358:GLN:NE2	2.14	0.46
1:F:375:GLU:HA	1:Q:314:TRP:O	2.16	0.46
1:G:334:TYR:CD2	1:G:442:VAL:HG11	2.50	0.46
1:G:445:VAL:HG11	1:G:448:GLN:NE2	2.31	0.46
1:G:545:LYS:C	1:G:547:LEU:H	2.22	0.46
1:H:186:PRO:HG2	1:H:212:TYR:CD1	2.50	0.46
1:H:283:SER:H	1:H:286:HIS:HD2	1.63	0.46
1:I:186:PRO:HG2	1:I:212:TYR:CD1	2.50	0.46
1:K:290:VAL:HG11	1:a:105:GLN:OE1	2.14	0.46
1:L:283:SER:H	1:L:286:HIS:HD2	1.63	0.46
1:R:186:PRO:HG2	1:R:212:TYR:CD1	2.50	0.46
1:R:540:GLY:O	1:R:541:THR:OG1	2.28	0.46
1:U:356:PHE:HE1	1:U:358:GLN:NE2	2.14	0.46
1:V:355:PRO:HA	1:V:372:GLY:O	2.16	0.46
1:W:334:TYR:CD2	1:W:442:VAL:HG11	2.50	0.46
1:Z:445:VAL:HG11	1:Z:448:GLN:NE2	2.31	0.46
1:f:445:VAL:HG11	1:f:448:GLN:NE2	2.31	0.46
1:g:186:PRO:HG2	1:g:212:TYR:CD1	2.50	0.46
1:g:445:VAL:HG11	1:g:448:GLN:NE2	2.31	0.46
1:h:334:TYR:CD2	1:h:442:VAL:HG11	2.50	0.46
1:i:186:PRO:HG2	1:i:212:TYR:CD1	2.50	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:i:217:TRP:O	1:i:236:LYS:HA	2.16	0.46
1:j:355:PRO:HA	1:j:372:GLY:O	2.16	0.46
1:l:334:TYR:CD2	1:l:442:VAL:HG11	2.50	0.46
1:m:128:GLN:CB	1:r:531:LEU:CD1	2.93	0.46
1:q:186:PRO:HG2	1:q:212:TYR:CD1	2.51	0.46
1:q:355:PRO:HA	1:q:372:GLY:O	2.16	0.46
1:s:404:GLN:NE2	1:s:443:ASP:N	2.58	0.46
1:t:334:TYR:CD2	1:t:442:VAL:HG11	2.50	0.46
1:v:356:PHE:HE1	1:v:358:GLN:NE2	2.14	0.46
1:x:334:TYR:CD2	1:x:442:VAL:HG11	2.50	0.46
1:x:404:GLN:NE2	1:x:443:ASP:N	2.58	0.46
1:z:355:PRO:HA	1:z:372:GLY:O	2.16	0.46
1:2:128:GLN:CB	1:4:531:LEU:CD1	2.92	0.46
1:4:338:GLU:HG2	1:4:371:GLN:HB3	1.96	0.46
1:6:334:TYR:CD2	1:6:442:VAL:HG11	2.50	0.46
1:8:334:TYR:CD2	1:8:442:VAL:HG11	2.50	0.46
1:B:283:SER:H	1:B:286:HIS:HD2	1.63	0.46
1:B:290:VAL:HG11	1:J:105:GLN:OE1	2.16	0.46
1:C:186:PRO:HG2	1:C:212:TYR:CD1	2.50	0.46
1:C:378:ILE:O	1:M:310:ASN:HB2	2.15	0.46
1:G:217:TRP:O	1:G:236:LYS:HA	2.16	0.46
1:J:289:SER:HA	1:L:188:VAL:HB	1.96	0.46
1:K:186:PRO:HG2	1:K:212:TYR:CD1	2.50	0.46
1:K:338:GLU:HG2	1:K:371:GLN:HB3	1.96	0.46
1:M:334:TYR:CD2	1:M:442:VAL:HG11	2.50	0.46
1:N:356:PHE:HE1	1:N:358:GLN:NE2	2.14	0.46
1:P:334:TYR:CD2	1:P:442:VAL:HG11	2.50	0.46
1:P:355:PRO:HA	1:P:372:GLY:O	2.16	0.46
1:P:356:PHE:HE1	1:P:358:GLN:NE2	2.14	0.46
1:S:356:PHE:HE1	1:S:358:GLN:NE2	2.14	0.46
1:S:531:LEU:CD1	1:T:128:GLN:CB	2.93	0.46
1:T:217:TRP:O	1:T:236:LYS:HA	2.16	0.46
1:W:314:TRP:O	1:Y:375:GLU:HA	2.16	0.46
1:W:445:VAL:HG11	1:W:448:GLN:NE2	2.31	0.46
1:X:375:GLU:HA	1:e:314:TRP:O	2.15	0.46
1:Y:334:TYR:CD2	1:Y:442:VAL:HG11	2.50	0.46
1:Z:334:TYR:CD2	1:Z:442:VAL:HG11	2.50	0.46
1:Z:355:PRO:HA	1:Z:372:GLY:O	2.16	0.46
1:d:355:PRO:HA	1:d:372:GLY:O	2.16	0.46
1:i:375:GLU:HA	1:k:314:TRP:O	2.16	0.46
1:j:356:PHE:HE1	1:j:358:GLN:NE2	2.14	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:n:355:PRO:HA	1:n:372:GLY:O	2.16	0.46
1:o:334:TYR:CD2	1:o:442:VAL:HG11	2.50	0.46
1:t:217:TRP:O	1:t:236:LYS:HA	2.16	0.46
1:t:445:VAL:HG11	1:t:448:GLN:NE2	2.31	0.46
1:u:186:PRO:HG2	1:u:212:TYR:CD1	2.51	0.46
1:w:186:PRO:HG2	1:w:212:TYR:CD1	2.51	0.46
1:x:314:TRP:O	1:y:375:GLU:HA	2.16	0.46
1:y:356:PHE:HE1	1:y:358:GLN:NE2	2.14	0.46
1:z:105:GLN:OE1	1:2:290:VAL:HG11	2.16	0.46
1:1:283:SER:H	1:1:286:HIS:HD2	1.63	0.46
1:1:318:SER:HB2	1:2:376:LYS:HZ1	1.80	0.46
1:6:445:VAL:HG11	1:6:448:GLN:NE2	2.31	0.46
1:A:314:TRP:CE2	1:A:327:VAL:HA	2.51	0.46
1:A:338:GLU:HG2	1:A:371:GLN:HB3	1.96	0.46
1:C:355:PRO:HA	1:C:372:GLY:O	2.16	0.46
1:D:355:PRO:HA	1:D:372:GLY:O	2.16	0.46
1:F:355:PRO:HA	1:F:372:GLY:O	2.16	0.46
1:G:314:TRP:O	1:I:375:GLU:HA	2.16	0.46
1:H:317:ARG:NH2	1:H:320:PRO:HB2	2.31	0.46
1:I:445:VAL:HG11	1:I:448:GLN:NE2	2.31	0.46
1:M:356:PHE:HE1	1:M:358:GLN:NE2	2.14	0.46
1:N:186:PRO:HG2	1:N:212:TYR:CD1	2.50	0.46
1:O:180:ASP:OD2	1:O:185:LEU:HD12	2.16	0.46
1:O:445:VAL:HG11	1:O:448:GLN:NE2	2.31	0.46
1:Q:334:TYR:CD2	1:Q:442:VAL:HG11	2.50	0.46
1:R:317:ARG:NH2	1:R:320:PRO:HB2	2.31	0.46
1:S:180:ASP:OD2	1:S:185:LEU:HD12	2.16	0.46
1:T:310:ASN:HB2	1:d:378:ILE:O	2.14	0.46
1:U:217:TRP:O	1:U:236:LYS:HA	2.16	0.46
1:U:317:ARG:NH2	1:U:320:PRO:HB2	2.31	0.46
1:U:404:GLN:NE2	1:U:443:ASP:N	2.58	0.46
1:V:445:VAL:HG11	1:V:448:GLN:NE2	2.31	0.46
1:Y:355:PRO:HA	1:Y:372:GLY:O	2.16	0.46
1:Z:180:ASP:OD2	1:Z:185:LEU:HD12	2.16	0.46
1:b:445:VAL:HG11	1:b:448:GLN:NE2	2.31	0.46
1:i:378:ILE:O	1:k:310:ASN:HB2	2.15	0.46
1:j:334:TYR:CD2	1:j:442:VAL:HG11	2.50	0.46
1:k:317:ARG:NH2	1:k:320:PRO:HB2	2.31	0.46
1:k:355:PRO:HA	1:k:372:GLY:O	2.16	0.46
1:l:180:ASP:OD2	1:l:185:LEU:HD12	2.16	0.46
1:o:356:PHE:HE1	1:o:358:GLN:NE2	2.14	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:q:180:ASP:OD2	1:q:185:LEU:HD12	2.16	0.46
1:q:317:ARG:NH2	1:q:320:PRO:HB2	2.31	0.46
1:q:540:GLY:O	1:q:541:THR:OG1	2.28	0.46
1:r:180:ASP:OD2	1:r:185:LEU:HD12	2.16	0.46
1:r:355:PRO:HA	1:r:372:GLY:O	2.16	0.46
1:r:356:PHE:HE1	1:r:358:GLN:NE2	2.14	0.46
1:s:317:ARG:NH2	1:s:320:PRO:HB2	2.31	0.46
1:t:314:TRP:O	1:u:375:GLU:HA	2.16	0.46
1:t:355:PRO:HA	1:t:372:GLY:O	2.16	0.46
1:v:314:TRP:CE2	1:v:327:VAL:HA	2.51	0.46
1:x:217:TRP:O	1:x:236:LYS:HA	2.15	0.46
1:4:445:VAL:HG11	1:4:448:GLN:NE2	2.31	0.46
1:5:283:SER:H	1:5:286:HIS:HD2	1.63	0.46
1:5:314:TRP:O	1:6:375:GLU:HA	2.16	0.46
1:6:314:TRP:O	1:7:375:GLU:HA	2.16	0.46
1:7:317:ARG:NH2	1:7:320:PRO:HB2	2.31	0.46
1:7:334:TYR:CD2	1:7:442:VAL:HG11	2.50	0.46
1:8:355:PRO:HA	1:8:372:GLY:O	2.16	0.46
1:B:180:ASP:OD2	1:B:185:LEU:HD12	2.16	0.46
1:B:378:ILE:O	1:L:310:ASN:HB2	2.15	0.46
1:C:314:TRP:CE2	1:C:327:VAL:HA	2.51	0.46
1:D:314:TRP:O	1:N:375:GLU:HA	2.16	0.46
1:D:317:ARG:NH2	1:D:320:PRO:HB2	2.31	0.46
1:E:180:ASP:OD2	1:E:185:LEU:HD12	2.16	0.46
1:F:217:TRP:O	1:F:236:LYS:HA	2.16	0.46
1:G:355:PRO:HA	1:G:372:GLY:O	2.16	0.46
1:H:314:TRP:O	1:W:375:GLU:HA	2.16	0.46
1:H:356:PHE:HE1	1:H:358:GLN:NE2	2.14	0.46
1:I:317:ARG:NH2	1:I:320:PRO:HB2	2.31	0.46
1:J:283:SER:H	1:J:286:HIS:HD2	1.63	0.46
1:J:317:ARG:NH2	1:J:320:PRO:HB2	2.31	0.46
1:K:445:VAL:HG11	1:K:448:GLN:NE2	2.31	0.46
1:L:314:TRP:CE2	1:L:327:VAL:HA	2.51	0.46
1:M:314:TRP:CE2	1:M:327:VAL:HA	2.51	0.46
1:R:180:ASP:OD2	1:R:185:LEU:HD12	2.16	0.46
1:R:340:ARG:HH22	1:U:431:ASP:CG	2.22	0.46
1:S:355:PRO:HA	1:S:372:GLY:O	2.16	0.46
1:T:314:TRP:CE2	1:T:327:VAL:HA	2.51	0.46
1:X:180:ASP:OD2	1:X:185:LEU:HD12	2.16	0.46
1:X:334:TYR:CD2	1:X:442:VAL:HG11	2.50	0.46
1:X:356:PHE:HE1	1:X:358:GLN:NE2	2.14	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Z:217:TRP:O	1:Z:236:LYS:HA	2.16	0.46
1:a:356:PHE:HE1	1:a:358:GLN:NE2	2.14	0.46
1:a:376:LYS:CD	1:a:395:TRP:HB2	2.46	0.46
1:a:540:GLY:O	1:a:541:THR:OG1	2.28	0.46
1:b:180:ASP:OD2	1:b:185:LEU:HD12	2.16	0.46
1:b:376:LYS:CD	1:b:395:TRP:HB2	2.46	0.46
1:b:531:LEU:CD1	1:c:128:GLN:CB	2.93	0.46
1:c:314:TRP:O	1:o:375:GLU:HA	2.15	0.46
1:e:334:TYR:CD2	1:e:442:VAL:HG11	2.50	0.46
1:f:376:LYS:CD	1:f:395:TRP:HB2	2.46	0.46
1:g:355:PRO:HA	1:g:372:GLY:O	2.16	0.46
1:g:378:ILE:O	1:h:310:ASN:HB2	2.15	0.46
1:h:356:PHE:HE1	1:h:358:GLN:NE2	2.14	0.46
1:h:445:VAL:HG11	1:h:448:GLN:NE2	2.31	0.46
1:i:356:PHE:HE1	1:i:358:GLN:NE2	2.14	0.46
1:k:445:VAL:HG11	1:k:448:GLN:NE2	2.31	0.46
1:l:356:PHE:HE1	1:l:358:GLN:NE2	2.14	0.46
1:l:445:VAL:HG11	1:l:448:GLN:NE2	2.31	0.46
1:m:217:TRP:O	1:m:236:LYS:HA	2.16	0.46
1:m:314:TRP:CE2	1:m:327:VAL:HA	2.51	0.46
1:o:180:ASP:OD2	1:o:185:LEU:HD12	2.16	0.46
1:s:217:TRP:O	1:s:236:LYS:HA	2.16	0.46
1:u:355:PRO:HA	1:u:372:GLY:O	2.16	0.46
1:v:338:GLU:HG2	1:v:371:GLN:HB3	1.96	0.46
1:w:180:ASP:OD2	1:w:185:LEU:HD12	2.16	0.46
1:y:355:PRO:HA	1:y:372:GLY:O	2.16	0.46
1:z:314:TRP:CE2	1:z:327:VAL:HA	2.51	0.46
1:z:540:GLY:O	1:z:541:THR:OG1	2.28	0.46
1:1:180:ASP:OD2	1:1:185:LEU:HD12	2.16	0.46
1:2:317:ARG:NH2	1:2:320:PRO:HB2	2.31	0.46
1:3:180:ASP:OD2	1:3:185:LEU:HD12	2.16	0.46
1:3:376:LYS:CD	1:3:395:TRP:HB2	2.46	0.46
1:4:186:PRO:HG2	1:4:212:TYR:CD1	2.51	0.46
1:5:317:ARG:NH2	1:5:320:PRO:HB2	2.31	0.46
1:8:180:ASP:OD2	1:8:185:LEU:HD12	2.16	0.46
1:8:217:TRP:O	1:8:236:LYS:HA	2.16	0.46
1:8:283:SER:H	1:8:286:HIS:HD2	1.63	0.46
1:D:445:VAL:HG11	1:D:448:GLN:NE2	2.31	0.46
1:F:314:TRP:CE2	1:F:327:VAL:HA	2.51	0.46
1:G:128:GLN:CG	1:H:531:LEU:CD1	2.93	0.46
1:G:180:ASP:OD2	1:G:185:LEU:HD12	2.16	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:314:TRP:CE2	1:G:327:VAL:HA	2.51	0.46
1:I:355:PRO:HA	1:I:372:GLY:O	2.16	0.46
1:J:545:LYS:C	1:J:547:LEU:H	2.22	0.46
1:L:540:GLY:O	1:L:541:THR:OG1	2.28	0.46
1:M:317:ARG:NH2	1:M:320:PRO:HB2	2.31	0.46
1:N:314:TRP:CE2	1:N:327:VAL:HA	2.51	0.46
1:N:317:ARG:NH2	1:N:320:PRO:HB2	2.31	0.46
1:N:376:LYS:CD	1:N:395:TRP:HB2	2.46	0.46
1:O:356:PHE:HE1	1:O:358:GLN:NE2	2.14	0.46
1:Q:217:TRP:O	1:Q:236:LYS:HA	2.16	0.46
1:Q:317:ARG:NH2	1:Q:320:PRO:HB2	2.31	0.46
1:Q:404:GLN:NE2	1:Q:443:ASP:N	2.58	0.46
1:R:378:ILE:O	1:U:310:ASN:HB2	2.15	0.46
1:R:445:VAL:HG11	1:R:448:GLN:NE2	2.31	0.46
1:T:180:ASP:OD2	1:T:185:LEU:HD12	2.16	0.46
1:W:314:TRP:CE2	1:W:327:VAL:HA	2.51	0.46
1:W:356:PHE:HE1	1:W:358:GLN:NE2	2.14	0.46
1:Y:317:ARG:NH2	1:Y:320:PRO:HB2	2.31	0.46
1:Y:376:LYS:CD	1:Y:395:TRP:HB2	2.46	0.46
1:Z:283:SER:H	1:Z:286:HIS:HD2	1.63	0.46
1:Z:540:GLY:O	1:Z:541:THR:OG1	2.28	0.46
1:a:180:ASP:OD2	1:a:185:LEU:HD12	2.16	0.46
1:a:314:TRP:O	1:8:375:GLU:HA	2.16	0.46
1:d:356:PHE:HE1	1:d:358:GLN:NE2	2.14	0.46
1:f:180:ASP:OD2	1:f:185:LEU:HD12	2.16	0.46
1:f:317:ARG:NH2	1:f:320:PRO:HB2	2.31	0.46
1:g:314:TRP:CE2	1:g:327:VAL:HA	2.51	0.46
1:h:314:TRP:CE2	1:h:327:VAL:HA	2.51	0.46
1:i:376:LYS:CD	1:i:395:TRP:HB2	2.46	0.46
1:m:180:ASP:OD2	1:m:185:LEU:HD12	2.16	0.46
1:n:356:PHE:HE1	1:n:358:GLN:NE2	2.14	0.46
1:p:445:VAL:HG11	1:p:448:GLN:NE2	2.31	0.46
1:q:217:TRP:O	1:q:236:LYS:HA	2.16	0.46
1:q:378:ILE:O	1:s:310:ASN:HB2	2.15	0.46
1:q:445:VAL:HG11	1:q:448:GLN:NE2	2.31	0.46
1:t:314:TRP:CE2	1:t:327:VAL:HA	2.51	0.46
1:u:317:ARG:NH2	1:u:320:PRO:HB2	2.31	0.46
1:u:445:VAL:HG11	1:u:448:GLN:NE2	2.31	0.46
1:x:186:PRO:HG2	1:x:212:TYR:CD1	2.51	0.46
1:x:317:ARG:NH2	1:x:320:PRO:HB2	2.31	0.46
1:y:217:TRP:O	1:y:236:LYS:HA	2.16	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:y:314:TRP:CE2	1:y:327:VAL:HA	2.51	0.46
1:1:186:PRO:HG2	1:1:212:TYR:CD1	2.50	0.46
1:2:545:LYS:C	1:2:547:LEU:H	2.22	0.46
1:3:356:PHE:HE1	1:3:358:GLN:NE2	2.14	0.46
1:4:217:TRP:O	1:4:236:LYS:HA	2.16	0.46
1:4:317:ARG:NH2	1:4:320:PRO:HB2	2.31	0.46
1:4:356:PHE:HE1	1:4:358:GLN:NE2	2.14	0.46
1:5:356:PHE:HE1	1:5:358:GLN:NE2	2.14	0.46
1:6:314:TRP:CE2	1:6:327:VAL:HA	2.51	0.46
1:7:355:PRO:HA	1:7:372:GLY:O	2.16	0.46
1:7:376:LYS:CD	1:7:395:TRP:HB2	2.46	0.46
1:B:186:PRO:HG2	1:B:212:TYR:CD1	2.51	0.45
1:C:356:PHE:HE1	1:C:358:GLN:NE2	2.14	0.45
1:F:186:PRO:HG2	1:F:212:TYR:CD1	2.50	0.45
1:F:283:SER:H	1:F:286:HIS:HD2	1.63	0.45
1:H:314:TRP:CE2	1:H:327:VAL:HA	2.51	0.45
1:K:217:TRP:O	1:K:236:LYS:HA	2.16	0.45
1:K:317:ARG:NH2	1:K:320:PRO:HB2	2.31	0.45
1:K:356:PHE:HE1	1:K:358:GLN:NE2	2.14	0.45
1:L:401:ILE:O	1:L:401:ILE:HG22	2.17	0.45
1:M:445:VAL:HG11	1:M:448:GLN:NE2	2.31	0.45
1:P:401:ILE:O	1:P:401:ILE:HG22	2.17	0.45
1:Q:186:PRO:HG2	1:Q:212:TYR:CD1	2.51	0.45
1:Q:314:TRP:CE2	1:Q:327:VAL:HA	2.51	0.45
1:Q:376:LYS:CD	1:Q:395:TRP:HB2	2.46	0.45
1:R:217:TRP:O	1:R:236:LYS:HA	2.16	0.45
1:R:375:GLU:HA	1:U:314:TRP:O	2.16	0.45
1:T:317:ARG:NH2	1:T:320:PRO:HB2	2.31	0.45
1:W:283:SER:H	1:W:286:HIS:HD2	1.63	0.45
1:W:355:PRO:HA	1:W:372:GLY:O	2.16	0.45
1:X:355:PRO:HA	1:X:372:GLY:O	2.16	0.45
1:Z:314:TRP:CE2	1:Z:327:VAL:HA	2.51	0.45
1:Z:375:GLU:HA	1:3:314:TRP:O	2.16	0.45
1:Z:376:LYS:CD	1:Z:395:TRP:HB2	2.46	0.45
1:b:317:ARG:NH2	1:b:320:PRO:HB2	2.31	0.45
1:c:217:TRP:O	1:c:236:LYS:HA	2.16	0.45
1:c:283:SER:H	1:c:286:HIS:HD2	1.63	0.45
1:c:334:TYR:CD2	1:c:442:VAL:HG11	2.50	0.45
1:c:376:LYS:CD	1:c:395:TRP:HB2	2.46	0.45
1:e:283:SER:H	1:e:286:HIS:HD2	1.63	0.45
1:e:376:LYS:CD	1:e:395:TRP:HB2	2.46	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:h:180:ASP:OD2	1:h:185:LEU:HD12	2.16	0.45
1:h:317:ARG:NH2	1:h:320:PRO:HB2	2.31	0.45
1:i:180:ASP:OD2	1:i:185:LEU:HD12	2.16	0.45
1:i:317:ARG:NH2	1:i:320:PRO:HB2	2.31	0.45
1:j:317:ARG:NH2	1:j:320:PRO:HB2	2.31	0.45
1:j:401:ILE:HG22	1:j:401:ILE:O	2.17	0.45
1:o:314:TRP:O	1:p:375:GLU:HA	2.16	0.45
1:o:355:PRO:HA	1:o:372:GLY:O	2.16	0.45
1:q:290:VAL:HG11	1:r:105:GLN:OE1	2.16	0.45
1:q:340:ARG:HH22	1:s:431:ASP:CG	2.22	0.45
1:q:531:LEU:CD1	1:x:128:GLN:CB	2.93	0.45
1:r:445:VAL:HG11	1:r:448:GLN:NE2	2.31	0.45
1:t:180:ASP:OD2	1:t:185:LEU:HD12	2.16	0.45
1:u:376:LYS:CD	1:u:395:TRP:HB2	2.46	0.45
1:v:217:TRP:O	1:v:236:LYS:HA	2.16	0.45
1:w:355:PRO:HA	1:w:372:GLY:O	2.16	0.45
1:w:376:LYS:CD	1:w:395:TRP:HB2	2.46	0.45
1:x:314:TRP:CE2	1:x:327:VAL:HA	2.51	0.45
1:y:186:PRO:HG2	1:y:212:TYR:CD1	2.50	0.45
1:y:283:SER:H	1:y:286:HIS:HD2	1.63	0.45
1:3:283:SER:H	1:3:286:HIS:HD2	1.63	0.45
1:5:314:TRP:CE2	1:5:327:VAL:HA	2.51	0.45
1:6:283:SER:H	1:6:286:HIS:HD2	1.63	0.45
1:6:355:PRO:HA	1:6:372:GLY:O	2.16	0.45
1:6:356:PHE:HE1	1:6:358:GLN:NE2	2.14	0.45
1:6:376:LYS:CD	1:6:395:TRP:HB2	2.46	0.45
1:7:136:GLU:HA	1:7:277:LEU:HD13	1.99	0.45
1:8:314:TRP:CE2	1:8:327:VAL:HA	2.51	0.45
1:8:376:LYS:CD	1:8:395:TRP:HB2	2.46	0.45
1:A:217:TRP:O	1:A:236:LYS:HA	2.16	0.45
1:A:317:ARG:NH2	1:A:320:PRO:HB2	2.31	0.45
1:D:401:ILE:O	1:D:401:ILE:HG22	2.17	0.45
1:E:317:ARG:NH2	1:E:320:PRO:HB2	2.31	0.45
1:E:355:PRO:HA	1:E:372:GLY:O	2.16	0.45
1:E:401:ILE:HG22	1:E:401:ILE:O	2.17	0.45
1:E:540:GLY:O	1:E:541:THR:OG1	2.28	0.45
1:I:376:LYS:CD	1:I:395:TRP:HB2	2.46	0.45
1:J:355:PRO:HA	1:J:372:GLY:O	2.16	0.45
1:J:356:PHE:HE1	1:J:358:GLN:NE2	2.14	0.45
1:J:401:ILE:HG22	1:J:401:ILE:O	2.17	0.45
1:L:317:ARG:NH2	1:L:320:PRO:HB2	2.31	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:356:PHE:HE1	1:L:358:GLN:NE2	2.14	0.45
1:N:180:ASP:OD2	1:N:185:LEU:HD12	2.16	0.45
1:N:310:ASN:HB2	1:P:378:ILE:O	2.15	0.45
1:O:276:GLN:NE2	1:O:562:ARG:HH12	2.15	0.45
1:P:317:ARG:NH2	1:P:320:PRO:HB2	2.31	0.45
1:Q:128:GLN:CB	1:R:531:LEU:CD1	2.93	0.45
1:R:290:VAL:HG11	1:S:105:GLN:OE1	2.16	0.45
1:S:445:VAL:HG11	1:S:448:GLN:NE2	2.31	0.45
1:U:136:GLU:HA	1:U:277:LEU:HD13	1.99	0.45
1:W:376:LYS:CD	1:W:395:TRP:HB2	2.46	0.45
1:Y:136:GLU:HA	1:Y:277:LEU:HD13	1.99	0.45
1:Y:356:PHE:HE1	1:Y:358:GLN:NE2	2.14	0.45
1:a:283:SER:H	1:a:286:HIS:HD2	1.63	0.45
1:e:217:TRP:O	1:e:236:LYS:HA	2.16	0.45
1:e:317:ARG:NH2	1:e:320:PRO:HB2	2.31	0.45
1:e:450:PRO:HB2	1:e:451:TRP:CD2	2.52	0.45
1:i:314:TRP:CE2	1:i:327:VAL:HA	2.51	0.45
1:i:447:ILE:HB	1:i:561:GLY:HA3	1.99	0.45
1:k:217:TRP:O	1:k:236:LYS:HA	2.16	0.45
1:k:401:ILE:O	1:k:401:ILE:HG22	2.17	0.45
1:k:450:PRO:HB2	1:k:451:TRP:CD2	2.52	0.45
1:k:540:GLY:O	1:k:541:THR:OG1	2.28	0.45
1:l:217:TRP:O	1:l:236:LYS:HA	2.16	0.45
1:m:317:ARG:NH2	1:m:320:PRO:HB2	2.31	0.45
1:r:314:TRP:O	1:s:375:GLU:HA	2.16	0.45
1:s:136:GLU:HA	1:s:277:LEU:HD13	1.99	0.45
1:s:540:GLY:O	1:s:541:THR:OG1	2.28	0.45
1:v:317:ARG:NH2	1:v:320:PRO:HB2	2.31	0.45
1:v:401:ILE:O	1:v:401:ILE:HG22	2.17	0.45
1:v:450:PRO:HB2	1:v:451:TRP:CD2	2.52	0.45
1:w:401:ILE:O	1:w:401:ILE:HG22	2.17	0.45
1:x:376:LYS:CD	1:x:395:TRP:HB2	2.46	0.45
1:z:401:ILE:HG22	1:z:401:ILE:O	2.17	0.45
1:1:356:PHE:HE1	1:1:358:GLN:NE2	2.14	0.45
1:2:283:SER:H	1:2:286:HIS:HD2	1.63	0.45
1:2:355:PRO:HA	1:2:372:GLY:O	2.16	0.45
1:2:401:ILE:HG22	1:2:401:ILE:O	2.17	0.45
1:3:317:ARG:NH2	1:3:320:PRO:HB2	2.31	0.45
1:7:356:PHE:HE1	1:7:358:GLN:NE2	2.14	0.45
1:A:401:ILE:O	1:A:401:ILE:HG22	2.17	0.45
1:A:450:PRO:HB2	1:A:451:TRP:CD2	2.52	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:314:TRP:CE2	1:B:327:VAL:HA	2.51	0.45
1:D:180:ASP:OD2	1:D:185:LEU:HD12	2.16	0.45
1:D:376:LYS:CD	1:D:395:TRP:HB2	2.46	0.45
1:D:450:PRO:HB2	1:D:451:TRP:CD2	2.52	0.45
1:D:545:LYS:C	1:D:547:LEU:H	2.22	0.45
1:E:314:TRP:CE2	1:E:327:VAL:HA	2.51	0.45
1:E:375:GLU:HA	1:F:314:TRP:O	2.16	0.45
1:G:450:PRO:HB2	1:G:451:TRP:CD2	2.52	0.45
1:J:180:ASP:OD2	1:J:185:LEU:HD12	2.16	0.45
1:K:375:GLU:HA	1:8:314:TRP:O	2.17	0.45
1:L:186:PRO:HG2	1:L:212:TYR:CD1	2.50	0.45
1:M:180:ASP:OD2	1:M:185:LEU:HD12	2.16	0.45
1:N:355:PRO:HA	1:N:372:GLY:O	2.16	0.45
1:N:447:ILE:HB	1:N:561:GLY:HA3	1.99	0.45
1:O:186:PRO:HG2	1:O:212:TYR:CD1	2.50	0.45
1:O:217:TRP:O	1:O:236:LYS:HA	2.16	0.45
1:O:314:TRP:O	1:m:375:GLU:HA	2.17	0.45
1:P:180:ASP:OD2	1:P:185:LEU:HD12	2.16	0.45
1:P:376:LYS:CD	1:P:395:TRP:HB2	2.46	0.45
1:S:314:TRP:O	1:U:375:GLU:HA	2.16	0.45
1:T:314:TRP:O	1:d:375:GLU:HA	2.17	0.45
1:T:355:PRO:HA	1:T:372:GLY:O	2.16	0.45
1:T:375:GLU:HA	1:l:314:TRP:O	2.17	0.45
1:T:376:LYS:CD	1:T:395:TRP:HB2	2.46	0.45
1:T:401:ILE:O	1:T:401:ILE:HG22	2.17	0.45
1:V:375:GLU:HA	1:X:314:TRP:O	2.17	0.45
1:V:450:PRO:HB2	1:V:451:TRP:CD2	2.52	0.45
1:Y:401:ILE:O	1:Y:401:ILE:HG22	2.17	0.45
1:Z:186:PRO:HG2	1:Z:212:TYR:CD1	2.50	0.45
1:Z:314:TRP:O	1:4:375:GLU:HA	2.17	0.45
1:a:317:ARG:NH2	1:a:320:PRO:HB2	2.31	0.45
1:a:401:ILE:O	1:a:401:ILE:HG22	2.17	0.45
1:c:317:ARG:NH2	1:c:320:PRO:HB2	2.31	0.45
1:d:283:SER:H	1:d:286:HIS:HD2	1.63	0.45
1:g:317:ARG:NH2	1:g:320:PRO:HB2	2.31	0.45
1:i:355:PRO:HA	1:i:372:GLY:O	2.16	0.45
1:i:445:VAL:HG11	1:i:448:GLN:NE2	2.31	0.45
1:k:180:ASP:OD2	1:k:185:LEU:HD12	2.16	0.45
1:k:186:PRO:HG2	1:k:212:TYR:CD1	2.50	0.45
1:k:376:LYS:CD	1:k:395:TRP:HB2	2.46	0.45
1:k:545:LYS:C	1:k:547:LEU:H	2.22	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:l:276:GLN:NE2	1:l:562:ARG:HH12	2.15	0.45
1:m:314:TRP:O	1:n:375:GLU:HA	2.17	0.45
1:m:401:ILE:HG22	1:m:401:ILE:O	2.17	0.45
1:n:283:SER:H	1:n:286:HIS:HD2	1.63	0.45
1:n:404:GLN:NE2	1:n:443:ASP:N	2.58	0.45
1:p:180:ASP:OD2	1:p:185:LEU:HD12	2.16	0.45
1:p:450:PRO:HB2	1:p:451:TRP:CD2	2.52	0.45
1:q:375:GLU:HA	1:s:314:TRP:O	2.16	0.45
1:t:450:PRO:HB2	1:t:451:TRP:CD2	2.52	0.45
1:w:317:ARG:NH2	1:w:320:PRO:HB2	2.31	0.45
1:w:375:GLU:HA	1:y:314:TRP:O	2.16	0.45
1:w:447:ILE:HB	1:w:561:GLY:HA3	1.99	0.45
1:w:540:GLY:O	1:w:541:THR:OG1	2.28	0.45
1:z:317:ARG:NH2	1:z:320:PRO:HB2	2.31	0.45
1:z:356:PHE:HE1	1:z:358:GLN:NE2	2.14	0.45
1:3:401:ILE:O	1:3:401:ILE:HG22	2.17	0.45
1:4:376:LYS:CD	1:4:395:TRP:HB2	2.46	0.45
1:7:401:ILE:HG22	1:7:401:ILE:O	2.17	0.45
1:8:450:PRO:HB2	1:8:451:TRP:CD2	2.52	0.45
1:8:540:GLY:O	1:8:541:THR:OG1	2.28	0.45
1:A:376:LYS:CD	1:A:395:TRP:HB2	2.46	0.45
1:B:136:GLU:HA	1:B:277:LEU:HD13	1.99	0.45
1:B:276:GLN:NE2	1:B:562:ARG:HH12	2.15	0.45
1:B:356:PHE:HE1	1:B:358:GLN:NE2	2.14	0.45
1:B:375:GLU:HA	1:L:314:TRP:O	2.16	0.45
1:B:401:ILE:HG22	1:B:401:ILE:O	2.17	0.45
1:C:317:ARG:NH2	1:C:320:PRO:HB2	2.31	0.45
1:D:186:PRO:HG2	1:D:212:TYR:CD1	2.50	0.45
1:D:217:TRP:O	1:D:236:LYS:HA	2.16	0.45
1:E:447:ILE:HB	1:E:561:GLY:HA3	1.99	0.45
1:G:401:ILE:HG22	1:G:401:ILE:O	2.17	0.45
1:I:180:ASP:OD2	1:I:185:LEU:HD12	2.16	0.45
1:J:376:LYS:CD	1:J:395:TRP:HB2	2.46	0.45
1:J:450:PRO:HB2	1:J:451:TRP:CD2	2.52	0.45
1:K:376:LYS:CD	1:K:395:TRP:HB2	2.46	0.45
1:M:376:LYS:CD	1:M:395:TRP:HB2	2.46	0.45
1:O:450:PRO:HB2	1:O:451:TRP:CD2	2.52	0.45
1:V:180:ASP:OD2	1:V:185:LEU:HD12	2.16	0.45
1:V:401:ILE:O	1:V:401:ILE:HG22	2.17	0.45
1:W:317:ARG:NH2	1:W:320:PRO:HB2	2.31	0.45
1:Z:450:PRO:HB2	1:Z:451:TRP:CD2	2.52	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:c:450:PRO:HB2	1:c:451:TRP:CD2	2.52	0.45
1:f:356:PHE:HE1	1:f:358:GLN:NE2	2.14	0.45
1:h:376:LYS:CD	1:h:395:TRP:HB2	2.46	0.45
1:j:180:ASP:OD2	1:j:185:LEU:HD12	2.16	0.45
1:l:186:PRO:HG2	1:l:212:TYR:CD1	2.50	0.45
1:l:450:PRO:HB2	1:l:451:TRP:CD2	2.52	0.45
1:m:355:PRO:HA	1:m:372:GLY:O	2.16	0.45
1:m:376:LYS:CD	1:m:395:TRP:HB2	2.46	0.45
1:p:401:ILE:HG22	1:p:401:ILE:O	2.17	0.45
1:q:450:PRO:HB2	1:q:451:TRP:CD2	2.52	0.45
1:w:314:TRP:CE2	1:w:327:VAL:HA	2.51	0.45
1:w:445:VAL:HG11	1:w:448:GLN:NE2	2.31	0.45
1:z:186:PRO:HG2	1:z:212:TYR:CD1	2.51	0.45
1:z:375:GLU:HA	1:2:314:TRP:O	2.15	0.45
1:1:136:GLU:HA	1:1:277:LEU:HD13	1.99	0.45
1:1:314:TRP:CE2	1:1:327:VAL:HA	2.51	0.45
1:2:180:ASP:OD2	1:2:185:LEU:HD12	2.16	0.45
1:2:356:PHE:HE1	1:2:358:GLN:NE2	2.14	0.45
1:2:450:PRO:HB2	1:2:451:TRP:CD2	2.52	0.45
1:4:447:ILE:HB	1:4:561:GLY:HA3	1.99	0.45
1:5:180:ASP:OD2	1:5:185:LEU:HD12	2.16	0.45
1:5:355:PRO:HA	1:5:372:GLY:O	2.16	0.45
1:6:317:ARG:NH2	1:6:320:PRO:HB2	2.31	0.45
1:D:136:GLU:HA	1:D:277:LEU:HD13	1.99	0.45
1:F:376:LYS:CD	1:F:395:TRP:HB2	2.46	0.45
1:H:355:PRO:HA	1:H:372:GLY:O	2.16	0.45
1:K:355:PRO:HA	1:K:372:GLY:O	2.16	0.45
1:K:447:ILE:HB	1:K:561:GLY:HA3	1.99	0.45
1:N:445:VAL:HG11	1:N:448:GLN:NE2	2.31	0.45
1:P:450:PRO:HB2	1:P:451:TRP:CD2	2.52	0.45
1:Q:445:VAL:HG11	1:Q:448:GLN:NE2	2.31	0.45
1:Q:450:PRO:HB2	1:Q:451:TRP:CD2	2.52	0.45
1:R:283:SER:H	1:R:286:HIS:HD2	1.63	0.45
1:R:450:PRO:HB2	1:R:451:TRP:CD2	2.52	0.45
1:W:276:GLN:NE2	1:W:562:ARG:HH12	2.15	0.45
1:X:376:LYS:CD	1:X:395:TRP:HB2	2.46	0.45
1:c:180:ASP:OD2	1:c:185:LEU:HD12	2.16	0.45
1:d:314:TRP:CE2	1:d:327:VAL:HA	2.51	0.45
1:d:404:GLN:NE2	1:d:443:ASP:N	2.58	0.45
1:d:450:PRO:HB2	1:d:451:TRP:CD2	2.52	0.45
1:e:447:ILE:HB	1:e:561:GLY:HA3	1.99	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:f:450:PRO:HB2	1:f:451:TRP:CD2	2.52	0.45
1:g:356:PHE:HE1	1:g:358:GLN:NE2	2.14	0.45
1:j:376:LYS:CD	1:j:395:TRP:HB2	2.46	0.45
1:j:450:PRO:HB2	1:j:451:TRP:CD2	2.52	0.45
1:k:356:PHE:HE1	1:k:358:GLN:NE2	2.14	0.45
1:l:355:PRO:HA	1:l:372:GLY:O	2.16	0.45
1:l:401:ILE:O	1:l:401:ILE:HG22	2.17	0.45
1:n:450:PRO:HB2	1:n:451:TRP:CD2	2.52	0.45
1:o:276:GLN:NE2	1:o:562:ARG:HH12	2.15	0.45
1:o:317:ARG:NH2	1:o:320:PRO:HB2	2.31	0.45
1:o:376:LYS:CD	1:o:395:TRP:HB2	2.46	0.45
1:p:317:ARG:NH2	1:p:320:PRO:HB2	2.31	0.45
1:p:376:LYS:CD	1:p:395:TRP:HB2	2.46	0.45
1:r:376:LYS:CD	1:r:395:TRP:HB2	2.46	0.45
1:t:376:LYS:CD	1:t:395:TRP:HB2	2.46	0.45
1:u:180:ASP:OD2	1:u:185:LEU:HD12	2.16	0.45
1:u:283:SER:H	1:u:286:HIS:HD2	1.63	0.45
1:v:376:LYS:CD	1:v:395:TRP:HB2	2.46	0.45
1:x:445:VAL:HG11	1:x:448:GLN:NE2	2.31	0.45
1:x:450:PRO:HB2	1:x:451:TRP:CD2	2.52	0.45
1:y:376:LYS:CD	1:y:395:TRP:HB2	2.46	0.45
1:y:401:ILE:O	1:y:401:ILE:HG22	2.17	0.45
1:1:276:GLN:NE2	1:1:562:ARG:HH12	2.15	0.45
1:1:401:ILE:O	1:1:401:ILE:HG22	2.17	0.45
1:2:376:LYS:CD	1:2:395:TRP:HB2	2.46	0.45
1:2:447:ILE:HB	1:2:561:GLY:HA3	1.99	0.45
1:6:217:TRP:O	1:6:236:LYS:HA	2.16	0.45
1:6:404:GLN:NE2	1:6:443:ASP:N	2.58	0.45
1:6:447:ILE:HB	1:6:561:GLY:HA3	1.99	0.45
1:8:186:PRO:HG2	1:8:212:TYR:CD1	2.50	0.45
1:8:356:PHE:HE1	1:8:358:GLN:NE2	2.14	0.45
1:A:314:TRP:O	1:G:375:GLU:HA	2.16	0.45
1:D:356:PHE:HE1	1:D:358:GLN:NE2	2.14	0.45
1:D:375:GLU:HA	1:P:314:TRP:O	2.16	0.45
1:D:447:ILE:HB	1:D:561:GLY:HA3	1.99	0.45
1:E:445:VAL:HG11	1:E:448:GLN:NE2	2.31	0.45
1:F:401:ILE:O	1:F:401:ILE:HG22	2.17	0.45
1:G:376:LYS:CD	1:G:395:TRP:HB2	2.46	0.45
1:H:180:ASP:OD2	1:H:185:LEU:HD12	2.16	0.45
1:L:180:ASP:OD2	1:L:185:LEU:HD12	2.16	0.45
1:M:276:GLN:NE2	1:M:562:ARG:HH12	2.15	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:450:PRO:HB2	1:N:451:TRP:CD2	2.52	0.45
1:O:355:PRO:HA	1:O:372:GLY:O	2.16	0.45
1:O:401:ILE:HG22	1:O:401:ILE:O	2.17	0.45
1:S:376:LYS:CD	1:S:395:TRP:HB2	2.46	0.45
1:S:401:ILE:O	1:S:401:ILE:HG22	2.17	0.45
1:U:540:GLY:O	1:U:541:THR:OG1	2.28	0.45
1:V:317:ARG:NH2	1:V:320:PRO:HB2	2.31	0.45
1:V:376:LYS:CD	1:V:395:TRP:HB2	2.46	0.45
1:W:447:ILE:HB	1:W:561:GLY:HA3	1.99	0.45
1:X:186:PRO:HG2	1:X:212:TYR:CD1	2.50	0.45
1:X:317:ARG:NH2	1:X:320:PRO:HB2	2.31	0.45
1:Z:356:PHE:HE1	1:Z:358:GLN:NE2	2.14	0.45
1:e:180:ASP:OD2	1:e:185:LEU:HD12	2.16	0.45
1:f:447:ILE:HB	1:f:561:GLY:HA3	1.99	0.45
1:i:310:ASN:HB2	1:j:378:ILE:O	2.15	0.45
1:i:314:TRP:O	1:j:375:GLU:HA	2.16	0.45
1:k:136:GLU:HA	1:k:277:LEU:HD13	1.99	0.45
1:k:404:GLN:NE2	1:k:443:ASP:N	2.58	0.45
1:k:447:ILE:HB	1:k:561:GLY:HA3	1.99	0.45
1:n:314:TRP:CE2	1:n:327:VAL:HA	2.51	0.45
1:o:186:PRO:HG2	1:o:212:TYR:CD1	2.51	0.45
1:q:283:SER:H	1:q:286:HIS:HD2	1.63	0.45
1:t:375:GLU:HA	1:v:314:TRP:O	2.16	0.45
1:t:401:ILE:O	1:t:401:ILE:HG22	2.17	0.45
1:z:180:ASP:OD2	1:z:185:LEU:HD12	2.16	0.45
1:1:445:VAL:HG11	1:1:448:GLN:NE2	2.31	0.45
1:6:276:GLN:NE2	1:6:562:ARG:HH12	2.15	0.45
1:B:355:PRO:HA	1:B:372:GLY:O	2.16	0.45
1:B:376:LYS:CD	1:B:395:TRP:HB2	2.46	0.45
1:B:445:VAL:HG11	1:B:448:GLN:NE2	2.31	0.45
1:C:376:LYS:CD	1:C:395:TRP:HB2	2.46	0.45
1:D:138:THR:HG23	1:D:140:GLU:OE2	2.17	0.45
1:E:376:LYS:CD	1:E:395:TRP:HB2	2.46	0.45
1:G:447:ILE:HB	1:G:561:GLY:HA3	1.99	0.45
1:H:376:LYS:CD	1:H:395:TRP:HB2	2.46	0.45
1:H:404:GLN:NE2	1:H:443:ASP:N	2.58	0.45
1:H:445:VAL:HG11	1:H:448:GLN:NE2	2.31	0.45
1:I:283:SER:H	1:I:286:HIS:HD2	1.63	0.45
1:I:401:ILE:O	1:I:401:ILE:HG22	2.17	0.45
1:J:447:ILE:HB	1:J:561:GLY:HA3	1.99	0.45
1:M:355:PRO:HA	1:M:372:GLY:O	2.16	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:404:GLN:NE2	1:M:443:ASP:N	2.58	0.45
1:N:314:TRP:O	1:P:375:GLU:HA	2.16	0.45
1:O:317:ARG:NH2	1:O:320:PRO:HB2	2.31	0.45
1:O:375:GLU:HA	1:n:314:TRP:O	2.16	0.45
1:O:376:LYS:CD	1:O:395:TRP:HB2	2.46	0.45
1:Q:355:PRO:HA	1:Q:372:GLY:O	2.16	0.45
1:Q:447:ILE:HB	1:Q:561:GLY:HA3	1.99	0.45
1:V:356:PHE:HE1	1:V:358:GLN:NE2	2.14	0.45
1:W:217:TRP:O	1:W:236:LYS:HA	2.16	0.45
1:X:276:GLN:NE2	1:X:562:ARG:HH12	2.15	0.45
1:Z:317:ARG:NH2	1:Z:320:PRO:HB2	2.31	0.45
1:Z:401:ILE:HG22	1:Z:401:ILE:O	2.17	0.45
1:a:314:TRP:CE2	1:a:327:VAL:HA	2.51	0.45
1:a:398:ASN:HB3	1:a:401:ILE:HD12	1.99	0.45
1:b:276:GLN:NE2	1:b:562:ARG:HH12	2.15	0.45
1:b:356:PHE:HE1	1:b:358:GLN:NE2	2.14	0.45
1:b:450:PRO:HB2	1:b:451:TRP:CD2	2.52	0.45
1:f:276:GLN:NE2	1:f:562:ARG:HH12	2.15	0.45
1:g:276:GLN:NE2	1:g:562:ARG:HH12	2.15	0.45
1:h:276:GLN:NE2	1:h:562:ARG:HH12	2.15	0.45
1:i:450:PRO:HB2	1:i:451:TRP:CD2	2.52	0.45
1:k:138:THR:HG23	1:k:140:GLU:OE2	2.17	0.45
1:p:217:TRP:O	1:p:236:LYS:HA	2.16	0.45
1:r:401:ILE:HG22	1:r:401:ILE:O	2.17	0.45
1:r:447:ILE:HB	1:r:561:GLY:HA3	1.99	0.45
1:t:447:ILE:HB	1:t:561:GLY:HA3	1.99	0.45
1:x:447:ILE:HB	1:x:561:GLY:HA3	1.99	0.45
1:z:376:LYS:CD	1:z:395:TRP:HB2	2.46	0.45
1:4:136:GLU:HA	1:4:277:LEU:HD13	1.99	0.45
1:4:314:TRP:CE2	1:4:327:VAL:HA	2.51	0.45
1:4:355:PRO:HA	1:4:372:GLY:O	2.16	0.45
1:5:445:VAL:HG11	1:5:448:GLN:NE2	2.31	0.45
1:8:401:ILE:O	1:8:401:ILE:HG22	2.17	0.45
1:A:180:ASP:OD2	1:A:185:LEU:HD12	2.16	0.45
1:C:276:GLN:NE2	1:C:562:ARG:HH12	2.15	0.45
1:C:375:GLU:HA	1:M:314:TRP:O	2.16	0.45
1:C:447:ILE:HB	1:C:561:GLY:HA3	1.99	0.45
1:E:138:THR:HG23	1:E:140:GLU:OE2	2.17	0.45
1:F:317:ARG:NH2	1:F:320:PRO:HB2	2.31	0.45
1:I:450:PRO:HB2	1:I:451:TRP:CD2	2.52	0.45
1:K:136:GLU:HA	1:K:277:LEU:HD13	1.99	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:314:TRP:CE2	1:K:327:VAL:HA	2.51	0.45
1:M:450:PRO:HB2	1:M:451:TRP:CD2	2.52	0.45
1:O:447:ILE:HB	1:O:561:GLY:HA3	1.99	0.45
1:P:314:TRP:CE2	1:P:327:VAL:HA	2.51	0.45
1:P:447:ILE:HB	1:P:561:GLY:HA3	1.99	0.45
1:R:276:GLN:NE2	1:R:562:ARG:HH12	2.15	0.45
1:S:447:ILE:HB	1:S:561:GLY:HA3	1.99	0.45
1:T:136:GLU:HA	1:T:277:LEU:HD13	1.99	0.45
1:U:401:ILE:HG22	1:U:401:ILE:O	2.16	0.45
1:X:447:ILE:HB	1:X:561:GLY:HA3	1.99	0.45
1:a:138:THR:HG23	1:a:140:GLU:OE2	2.17	0.45
1:a:404:GLN:NE2	1:a:443:ASP:N	2.58	0.45
1:b:447:ILE:HB	1:b:561:GLY:HA3	1.99	0.45
1:c:401:ILE:O	1:c:401:ILE:HG22	2.17	0.45
1:c:447:ILE:HB	1:c:561:GLY:HA3	1.99	0.45
1:d:317:ARG:NH2	1:d:320:PRO:HB2	2.31	0.45
1:g:376:LYS:CD	1:g:395:TRP:HB2	2.46	0.45
1:g:447:ILE:HB	1:g:561:GLY:HA3	1.99	0.45
1:g:450:PRO:HB2	1:g:451:TRP:CD2	2.52	0.45
1:h:450:PRO:HB2	1:h:451:TRP:CD2	2.52	0.45
1:j:314:TRP:O	1:k:375:GLU:HA	2.16	0.45
1:j:447:ILE:HB	1:j:561:GLY:HA3	1.99	0.45
1:l:376:LYS:CD	1:l:395:TRP:HB2	2.46	0.45
1:m:136:GLU:HA	1:m:277:LEU:HD13	1.99	0.45
1:n:398:ASN:HB3	1:n:401:ILE:HD12	1.99	0.45
1:r:314:TRP:CE2	1:r:327:VAL:HA	2.51	0.45
1:s:180:ASP:OD2	1:s:185:LEU:HD12	2.16	0.45
1:s:355:PRO:HA	1:s:372:GLY:O	2.16	0.45
1:s:445:VAL:HG11	1:s:448:GLN:NE2	2.31	0.45
1:u:138:THR:HG23	1:u:140:GLU:OE2	2.17	0.45
1:u:401:ILE:HG22	1:u:401:ILE:O	2.17	0.45
1:w:138:THR:HG23	1:w:140:GLU:OE2	2.17	0.45
1:x:356:PHE:HE1	1:x:358:GLN:NE2	2.14	0.45
1:x:401:ILE:HG22	1:x:401:ILE:O	2.17	0.45
1:y:276:GLN:NE2	1:y:562:ARG:HH12	2.15	0.45
1:y:450:PRO:HB2	1:y:451:TRP:CD2	2.52	0.45
1:1:317:ARG:NH2	1:1:320:PRO:HB2	2.31	0.45
1:1:355:PRO:HA	1:1:372:GLY:O	2.16	0.45
1:1:450:PRO:HB2	1:1:451:TRP:CD2	2.52	0.45
1:2:138:THR:HG23	1:2:140:GLU:OE2	2.17	0.45
1:3:138:THR:HG23	1:3:140:GLU:OE2	2.17	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:3:398:ASN:HB3	1:3:401:ILE:HD12	1.99	0.45
1:3:404:GLN:NE2	1:3:443:ASP:N	2.58	0.45
1:3:450:PRO:HB2	1:3:451:TRP:CD2	2.52	0.45
1:4:450:PRO:HB2	1:4:451:TRP:CD2	2.52	0.45
1:7:217:TRP:O	1:7:236:LYS:HA	2.16	0.45
1:B:317:ARG:NH2	1:B:320:PRO:HB2	2.31	0.45
1:B:398:ASN:HB3	1:B:401:ILE:HD12	1.99	0.45
1:C:450:PRO:HB2	1:C:451:TRP:CD2	2.52	0.45
1:D:404:GLN:NE2	1:D:443:ASP:N	2.58	0.45
1:F:138:THR:HG23	1:F:140:GLU:OE2	2.17	0.45
1:F:276:GLN:NE2	1:F:562:ARG:HH12	2.15	0.45
1:F:450:PRO:HB2	1:F:451:TRP:CD2	2.52	0.45
1:H:138:THR:HG23	1:H:140:GLU:OE2	2.17	0.45
1:I:138:THR:HG23	1:I:140:GLU:OE2	2.17	0.45
1:J:138:THR:HG23	1:J:140:GLU:OE2	2.17	0.45
1:J:314:TRP:CE2	1:J:327:VAL:HA	2.51	0.45
1:K:401:ILE:O	1:K:401:ILE:HG22	2.17	0.45
1:K:450:PRO:HB2	1:K:451:TRP:CD2	2.52	0.45
1:L:376:LYS:CD	1:L:395:TRP:HB2	2.46	0.45
1:M:401:ILE:HG22	1:M:401:ILE:O	2.17	0.45
1:N:136:GLU:HA	1:N:277:LEU:HD13	1.99	0.45
1:O:398:ASN:HB3	1:O:401:ILE:HD12	1.99	0.45
1:Q:180:ASP:OD2	1:Q:185:LEU:HD12	2.16	0.45
1:Q:356:PHE:HE1	1:Q:358:GLN:NE2	2.14	0.45
1:Q:401:ILE:O	1:Q:401:ILE:HG22	2.17	0.45
1:R:447:ILE:HB	1:R:561:GLY:HA3	1.99	0.45
1:S:314:TRP:CE2	1:S:327:VAL:HA	2.51	0.45
1:S:317:ARG:NH2	1:S:320:PRO:HB2	2.31	0.45
1:T:404:GLN:NE2	1:T:443:ASP:N	2.58	0.45
1:U:180:ASP:OD2	1:U:185:LEU:HD12	2.16	0.45
1:U:276:GLN:NE2	1:U:562:ARG:HH12	2.15	0.45
1:U:445:VAL:HG11	1:U:448:GLN:NE2	2.31	0.45
1:V:314:TRP:CE2	1:V:327:VAL:HA	2.51	0.45
1:W:318:SER:HB2	1:Y:376:LYS:HZ1	1.81	0.45
1:W:404:GLN:NE2	1:W:443:ASP:N	2.58	0.45
1:W:450:PRO:HB2	1:W:451:TRP:CD2	2.52	0.45
1:Y:217:TRP:O	1:Y:236:LYS:HA	2.16	0.45
1:Y:314:TRP:CE2	1:Y:327:VAL:HA	2.51	0.45
1:a:450:PRO:HB2	1:a:451:TRP:CD2	2.52	0.45
1:b:314:TRP:CE2	1:b:327:VAL:HA	2.51	0.45
1:d:314:TRP:O	1:l:375:GLU:HA	2.16	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:d:398:ASN:HB3	1:d:401:ILE:HD12	1.99	0.45
1:e:138:THR:HG23	1:e:140:GLU:OE2	2.17	0.45
1:f:540:GLY:O	1:f:541:THR:OG1	2.28	0.45
1:g:375:GLU:HA	1:h:314:TRP:O	2.16	0.45
1:h:355:PRO:HA	1:h:372:GLY:O	2.16	0.45
1:h:401:ILE:HG22	1:h:401:ILE:O	2.17	0.45
1:i:136:GLU:HA	1:i:277:LEU:HD13	1.99	0.45
1:j:314:TRP:CE2	1:j:327:VAL:HA	2.51	0.45
1:l:317:ARG:NH2	1:l:320:PRO:HB2	2.31	0.45
1:l:398:ASN:HB3	1:l:401:ILE:HD12	1.99	0.45
1:l:447:ILE:HB	1:l:561:GLY:HA3	1.99	0.45
1:n:317:ARG:NH2	1:n:320:PRO:HB2	2.31	0.45
1:o:447:ILE:HB	1:o:561:GLY:HA3	1.99	0.45
1:p:356:PHE:HE1	1:p:358:GLN:NE2	2.14	0.45
1:q:276:GLN:NE2	1:q:562:ARG:HH12	2.15	0.45
1:t:317:ARG:NH2	1:t:320:PRO:HB2	2.31	0.45
1:u:450:PRO:HB2	1:u:451:TRP:CD2	2.52	0.45
1:v:180:ASP:OD2	1:v:185:LEU:HD12	2.16	0.45
1:y:317:ARG:NH2	1:y:320:PRO:HB2	2.31	0.45
1:z:138:THR:HG23	1:z:140:GLU:OE2	2.17	0.45
1:1:376:LYS:CD	1:1:395:TRP:HB2	2.46	0.45
1:2:314:TRP:CE2	1:2:327:VAL:HA	2.51	0.45
1:3:314:TRP:CE2	1:3:327:VAL:HA	2.51	0.45
1:3:375:GLU:HA	1:4:314:TRP:O	2.17	0.45
1:4:401:ILE:HG22	1:4:401:ILE:O	2.17	0.45
1:5:138:THR:HG23	1:5:140:GLU:OE2	2.17	0.45
1:5:376:LYS:CD	1:5:395:TRP:HB2	2.46	0.45
1:6:318:SER:HB2	1:7:376:LYS:HZ1	1.81	0.45
1:6:450:PRO:HB2	1:6:451:TRP:CD2	2.52	0.45
1:7:314:TRP:CE2	1:7:327:VAL:HA	2.51	0.45
1:8:317:ARG:NH2	1:8:320:PRO:HB2	2.31	0.45
1:B:450:PRO:HB2	1:B:451:TRP:CD2	2.52	0.45
1:H:401:ILE:O	1:H:401:ILE:HG22	2.17	0.45
1:I:136:GLU:HA	1:I:277:LEU:HD13	1.99	0.45
1:L:138:THR:HG23	1:L:140:GLU:OE2	2.17	0.45
1:L:398:ASN:HB3	1:L:401:ILE:HD12	1.99	0.45
1:R:314:TRP:CE2	1:R:327:VAL:HA	2.51	0.45
1:R:356:PHE:HE1	1:R:358:GLN:NE2	2.14	0.45
1:U:314:TRP:CE2	1:U:327:VAL:HA	2.51	0.45
1:U:355:PRO:HA	1:U:372:GLY:O	2.16	0.45
1:V:217:TRP:O	1:V:236:LYS:HA	2.16	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:W:401:ILE:HG22	1:W:401:ILE:O	2.17	0.45
1:Y:398:ASN:HB3	1:Y:401:ILE:HD12	1.99	0.45
1:b:136:GLU:HA	1:b:277:LEU:HD13	1.98	0.45
1:c:138:THR:HG23	1:c:140:GLU:OE2	2.17	0.45
1:e:401:ILE:HG22	1:e:401:ILE:O	2.17	0.45
1:h:136:GLU:HA	1:h:277:LEU:HD13	1.99	0.45
1:h:398:ASN:HB3	1:h:401:ILE:HD12	1.99	0.45
1:h:404:GLN:NE2	1:h:443:ASP:N	2.58	0.45
1:k:276:GLN:NE2	1:k:562:ARG:HH12	2.15	0.45
1:m:404:GLN:NE2	1:m:443:ASP:N	2.58	0.45
1:o:450:PRO:HB2	1:o:451:TRP:CD2	2.52	0.45
1:p:314:TRP:CE2	1:p:327:VAL:HA	2.51	0.45
1:q:376:LYS:CD	1:q:395:TRP:HB2	2.46	0.45
1:q:447:ILE:HB	1:q:561:GLY:HA3	1.99	0.45
1:r:317:ARG:NH2	1:r:320:PRO:HB2	2.31	0.45
1:r:450:PRO:HB2	1:r:451:TRP:CD2	2.52	0.45
1:s:276:GLN:NE2	1:s:562:ARG:HH12	2.15	0.45
1:s:314:TRP:CE2	1:s:327:VAL:HA	2.51	0.45
1:s:401:ILE:O	1:s:401:ILE:HG22	2.17	0.45
1:u:314:TRP:CE2	1:u:327:VAL:HA	2.51	0.45
1:u:356:PHE:HE1	1:u:358:GLN:NE2	2.14	0.45
1:x:136:GLU:HA	1:x:277:LEU:HD13	1.99	0.45
1:x:180:ASP:OD2	1:x:185:LEU:HD12	2.16	0.45
1:x:355:PRO:HA	1:x:372:GLY:O	2.16	0.45
1:y:138:THR:HG23	1:y:140:GLU:OE2	2.17	0.45
1:z:136:GLU:HA	1:z:277:LEU:HD13	1.99	0.45
1:6:401:ILE:O	1:6:401:ILE:HG22	2.17	0.45
1:7:398:ASN:HB3	1:7:401:ILE:HD12	1.99	0.45
1:A:447:ILE:HB	1:A:561:GLY:HA3	1.99	0.44
1:D:276:GLN:NE2	1:D:562:ARG:HH12	2.15	0.44
1:I:135:ARG:NH2	1:I:523:LEU:O	2.51	0.44
1:I:287:THR:HG22	1:I:569:MET:HE2	2.00	0.44
1:K:138:THR:HG23	1:K:140:GLU:OE2	2.17	0.44
1:K:314:TRP:O	1:a:375:GLU:HA	2.17	0.44
1:L:136:GLU:HA	1:L:277:LEU:HD13	1.99	0.44
1:M:136:GLU:HA	1:M:277:LEU:HD13	1.99	0.44
1:M:398:ASN:HB3	1:M:401:ILE:HD12	1.99	0.44
1:R:138:THR:HG23	1:R:140:GLU:OE2	2.17	0.44
1:R:376:LYS:CD	1:R:395:TRP:HB2	2.46	0.44
1:S:450:PRO:HB2	1:S:451:TRP:CD2	2.52	0.44
1:T:398:ASN:HB3	1:T:401:ILE:HD12	1.99	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:W:135:ARG:NH2	1:W:523:LEU:O	2.51	0.44
1:W:138:THR:HG23	1:W:140:GLU:OE2	2.17	0.44
1:X:450:PRO:HB2	1:X:451:TRP:CD2	2.52	0.44
1:Y:450:PRO:HB2	1:Y:451:TRP:CD2	2.52	0.44
1:c:276:GLN:NE2	1:c:562:ARG:HH12	2.15	0.44
1:d:401:ILE:O	1:d:401:ILE:HG22	2.17	0.44
1:e:276:GLN:NE2	1:e:562:ARG:HH12	2.15	0.44
1:f:136:GLU:HA	1:f:277:LEU:HD13	1.99	0.44
1:f:287:THR:HG22	1:f:569:MET:HE2	2.00	0.44
1:f:314:TRP:CE2	1:f:327:VAL:HA	2.51	0.44
1:f:401:ILE:O	1:f:401:ILE:HG22	2.17	0.44
1:m:398:ASN:HB3	1:m:401:ILE:HD12	1.99	0.44
1:m:447:ILE:HB	1:m:561:GLY:HA3	1.99	0.44
1:q:138:THR:HG23	1:q:140:GLU:OE2	2.17	0.44
1:q:314:TRP:CE2	1:q:327:VAL:HA	2.51	0.44
1:u:135:ARG:NH2	1:u:523:LEU:O	2.51	0.44
1:u:136:GLU:HA	1:u:277:LEU:HD13	1.99	0.44
1:w:398:ASN:HB3	1:w:401:ILE:HD12	1.99	0.44
1:x:540:GLY:O	1:x:541:THR:OG1	2.28	0.44
1:2:398:ASN:HB3	1:2:401:ILE:HD12	1.99	0.44
1:5:401:ILE:O	1:5:401:ILE:HG22	2.17	0.44
1:6:138:THR:HG23	1:6:140:GLU:OE2	2.17	0.44
1:D:287:THR:HG22	1:D:569:MET:HE2	2.00	0.44
1:E:398:ASN:HB3	1:E:401:ILE:HD12	1.99	0.44
1:F:135:ARG:NH2	1:F:523:LEU:O	2.51	0.44
1:G:317:ARG:NH2	1:G:320:PRO:HB2	2.31	0.44
1:H:135:ARG:NH2	1:H:523:LEU:O	2.51	0.44
1:H:450:PRO:HB2	1:H:451:TRP:CD2	2.52	0.44
1:I:314:TRP:CE2	1:I:327:VAL:HA	2.51	0.44
1:J:398:ASN:HB3	1:J:401:ILE:HD12	1.99	0.44
1:N:401:ILE:O	1:N:401:ILE:HG22	2.17	0.44
1:O:138:THR:HG23	1:O:140:GLU:OE2	2.17	0.44
1:O:314:TRP:CE2	1:O:327:VAL:HA	2.51	0.44
1:P:287:THR:HG22	1:P:569:MET:HE2	1.99	0.44
1:Q:136:GLU:HA	1:Q:277:LEU:HD13	1.99	0.44
1:S:135:ARG:NH2	1:S:523:LEU:O	2.51	0.44
1:T:450:PRO:HB2	1:T:451:TRP:CD2	2.52	0.44
1:V:287:THR:HG22	1:V:569:MET:HE2	2.00	0.44
1:Y:135:ARG:NH2	1:Y:523:LEU:O	2.51	0.44
1:Y:447:ILE:HB	1:Y:561:GLY:HA3	1.99	0.44
1:a:135:ARG:NH2	1:a:523:LEU:O	2.51	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:a:355:PRO:HA	1:a:372:GLY:O	2.16	0.44
1:b:401:ILE:HG22	1:b:401:ILE:O	2.17	0.44
1:b:540:GLY:O	1:b:541:THR:OG1	2.28	0.44
1:c:136:GLU:HA	1:c:277:LEU:HD13	1.98	0.44
1:d:138:THR:HG23	1:d:140:GLU:OE2	2.17	0.44
1:f:355:PRO:HA	1:f:372:GLY:O	2.16	0.44
1:i:135:ARG:NH2	1:i:523:LEU:O	2.51	0.44
1:j:135:ARG:NH2	1:j:523:LEU:O	2.51	0.44
1:j:287:THR:HG22	1:j:569:MET:HE2	2.00	0.44
1:k:287:THR:HG22	1:k:569:MET:HE2	2.00	0.44
1:l:138:THR:HG23	1:l:140:GLU:OE2	2.17	0.44
1:l:314:TRP:CE2	1:l:327:VAL:HA	2.51	0.44
1:m:450:PRO:HB2	1:m:451:TRP:CD2	2.52	0.44
1:n:138:THR:HG23	1:n:140:GLU:OE2	2.17	0.44
1:n:401:ILE:O	1:n:401:ILE:HG22	2.17	0.44
1:p:287:THR:HG22	1:p:569:MET:HE2	2.00	0.44
1:q:356:PHE:HE1	1:q:358:GLN:NE2	2.14	0.44
1:r:135:ARG:NH2	1:r:523:LEU:O	2.51	0.44
1:u:287:THR:HG22	1:u:569:MET:HE2	2.00	0.44
1:y:135:ARG:NH2	1:y:523:LEU:O	2.51	0.44
1:1:398:ASN:HB3	1:1:401:ILE:HD12	1.99	0.44
1:3:135:ARG:NH2	1:3:523:LEU:O	2.51	0.44
1:4:138:THR:HG23	1:4:140:GLU:OE2	2.17	0.44
1:4:180:ASP:OD2	1:4:185:LEU:HD12	2.16	0.44
1:5:135:ARG:NH2	1:5:523:LEU:O	2.51	0.44
1:5:136:GLU:HA	1:5:277:LEU:HD13	1.99	0.44
1:6:135:ARG:NH2	1:6:523:LEU:O	2.51	0.44
1:7:447:ILE:HB	1:7:561:GLY:HA3	1.99	0.44
1:7:450:PRO:HB2	1:7:451:TRP:CD2	2.52	0.44
1:B:138:THR:HG23	1:B:140:GLU:OE2	2.17	0.44
1:C:447:ILE:O	1:C:561:GLY:N	2.41	0.44
1:G:386:ASP:O	1:G:553:HIS:HB3	2.18	0.44
1:H:136:GLU:HA	1:H:277:LEU:HD13	1.99	0.44
1:I:276:GLN:NE2	1:I:562:ARG:HH12	2.15	0.44
1:I:356:PHE:HE1	1:I:358:GLN:NE2	2.14	0.44
1:J:314:TRP:O	1:L:375:GLU:HA	2.16	0.44
1:K:180:ASP:OD2	1:K:185:LEU:HD12	2.16	0.44
1:N:135:ARG:NH2	1:N:523:LEU:O	2.51	0.44
1:P:135:ARG:NH2	1:P:523:LEU:O	2.51	0.44
1:P:138:THR:HG23	1:P:140:GLU:OE2	2.17	0.44
1:Q:398:ASN:HB3	1:Q:401:ILE:HD12	1.99	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:S:136:GLU:HA	1:S:277:LEU:HD13	1.99	0.44
1:S:138:THR:HG23	1:S:140:GLU:OE2	2.17	0.44
1:T:447:ILE:HB	1:T:561:GLY:HA3	1.99	0.44
1:U:376:LYS:CD	1:U:395:TRP:HB2	2.46	0.44
1:W:386:ASP:O	1:W:553:HIS:HB3	2.18	0.44
1:Y:180:ASP:OD2	1:Y:185:LEU:HD12	2.16	0.44
1:Z:447:ILE:HB	1:Z:561:GLY:HA3	1.99	0.44
1:a:287:THR:HG22	1:a:569:MET:HE2	2.00	0.44
1:b:287:THR:HG22	1:b:569:MET:HE2	2.00	0.44
1:d:180:ASP:OD2	1:d:185:LEU:HD12	2.16	0.44
1:e:314:TRP:CE2	1:e:327:VAL:HA	2.51	0.44
1:i:401:ILE:O	1:i:401:ILE:HG22	2.17	0.44
1:j:138:THR:HG23	1:j:140:GLU:OE2	2.17	0.44
1:l:404:GLN:NE2	1:l:443:ASP:N	2.58	0.44
1:m:138:THR:HG23	1:m:140:GLU:OE2	2.17	0.44
1:o:314:TRP:CE2	1:o:327:VAL:HA	2.51	0.44
1:r:138:THR:HG23	1:r:140:GLU:OE2	2.17	0.44
1:t:138:THR:HG23	1:t:140:GLU:OE2	2.17	0.44
1:t:386:ASP:O	1:t:553:HIS:HB3	2.18	0.44
1:v:447:ILE:HB	1:v:561:GLY:HA3	1.99	0.44
1:z:398:ASN:HB3	1:z:401:ILE:HD12	1.99	0.44
1:1:138:THR:HG23	1:1:140:GLU:OE2	2.17	0.44
1:5:450:PRO:HB2	1:5:451:TRP:CD2	2.52	0.44
1:6:386:ASP:O	1:6:553:HIS:HB3	2.18	0.44
1:7:135:ARG:NH2	1:7:523:LEU:O	2.51	0.44
1:C:138:THR:HG23	1:C:140:GLU:OE2	2.17	0.44
1:D:314:TRP:CE2	1:D:327:VAL:HA	2.51	0.44
1:G:136:GLU:HA	1:G:277:LEU:HD13	1.99	0.44
1:G:138:THR:HG23	1:G:140:GLU:OE2	2.17	0.44
1:H:398:ASN:HB3	1:H:401:ILE:HD12	1.99	0.44
1:L:450:PRO:HB2	1:L:451:TRP:CD2	2.52	0.44
1:O:404:GLN:NE2	1:O:443:ASP:N	2.58	0.44
1:P:283:SER:H	1:P:286:HIS:HD2	1.63	0.44
1:T:138:THR:HG23	1:T:140:GLU:OE2	2.17	0.44
1:U:138:THR:HG23	1:U:140:GLU:OE2	2.17	0.44
1:W:180:ASP:OD2	1:W:185:LEU:HD12	2.16	0.44
1:X:136:GLU:HA	1:X:277:LEU:HD13	1.99	0.44
1:X:314:TRP:CE2	1:X:327:VAL:HA	2.51	0.44
1:X:386:ASP:O	1:X:553:HIS:HB3	2.18	0.44
1:Y:138:THR:HG23	1:Y:140:GLU:OE2	2.17	0.44
1:b:138:THR:HG23	1:b:140:GLU:OE2	2.17	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:b:355:PRO:HA	1:b:372:GLY:O	2.16	0.44
1:b:398:ASN:HB3	1:b:401:ILE:HD12	1.99	0.44
1:c:314:TRP:CE2	1:c:327:VAL:HA	2.51	0.44
1:c:398:ASN:HB3	1:c:401:ILE:HD12	1.99	0.44
1:d:135:ARG:NH2	1:d:523:LEU:O	2.51	0.44
1:e:136:GLU:HA	1:e:277:LEU:HD13	1.99	0.44
1:e:398:ASN:HB3	1:e:401:ILE:HD12	1.99	0.44
1:f:398:ASN:HB3	1:f:401:ILE:HD12	1.99	0.44
1:g:180:ASP:OD2	1:g:185:LEU:HD12	2.16	0.44
1:k:314:TRP:CE2	1:k:327:VAL:HA	2.51	0.44
1:n:135:ARG:NH2	1:n:523:LEU:O	2.51	0.44
1:o:386:ASP:O	1:o:553:HIS:HB3	2.18	0.44
1:r:136:GLU:HA	1:r:277:LEU:HD13	1.99	0.44
1:s:376:LYS:CD	1:s:395:TRP:HB2	2.46	0.44
1:s:450:PRO:HB2	1:s:451:TRP:CD2	2.52	0.44
1:v:135:ARG:NH2	1:v:523:LEU:O	2.51	0.44
1:x:398:ASN:HB3	1:x:401:ILE:HD12	1.99	0.44
1:z:135:ARG:NH2	1:z:523:LEU:O	2.51	0.44
1:z:287:THR:HG22	1:z:569:MET:HE2	1.99	0.44
1:z:290:VAL:HG11	1:1:105:GLN:OE1	2.17	0.44
1:2:135:ARG:NH2	1:2:523:LEU:O	2.51	0.44
1:3:287:THR:HG22	1:3:569:MET:HE2	2.00	0.44
1:3:355:PRO:HA	1:3:372:GLY:O	2.16	0.44
1:3:540:GLY:O	1:3:541:THR:OG1	2.28	0.44
1:5:398:ASN:HB3	1:5:401:ILE:HD12	1.99	0.44
1:6:180:ASP:OD2	1:6:185:LEU:HD12	2.16	0.44
1:7:180:ASP:OD2	1:7:185:LEU:HD12	2.16	0.44
1:C:180:ASP:OD2	1:C:185:LEU:HD12	2.16	0.44
1:F:180:ASP:OD2	1:F:185:LEU:HD12	2.16	0.44
1:F:386:ASP:O	1:F:553:HIS:HB3	2.18	0.44
1:H:447:ILE:O	1:H:561:GLY:N	2.41	0.44
1:K:276:GLN:NE2	1:K:562:ARG:HH12	2.15	0.44
1:L:135:ARG:NH2	1:L:523:LEU:O	2.51	0.44
1:L:287:THR:HG22	1:L:569:MET:HE2	1.99	0.44
1:R:317:ARG:O	1:S:376:LYS:HG2	2.18	0.44
1:X:138:THR:HG23	1:X:140:GLU:OE2	2.17	0.44
1:Y:386:ASP:O	1:Y:553:HIS:HB3	2.18	0.44
1:Z:136:GLU:HA	1:Z:277:LEU:HD13	1.99	0.44
1:d:376:LYS:CD	1:d:395:TRP:HB2	2.46	0.44
1:f:138:THR:HG23	1:f:140:GLU:OE2	2.17	0.44
1:h:138:THR:HG23	1:h:140:GLU:OE2	2.17	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:h:287:THR:HG22	1:h:569:MET:HE2	2.00	0.44
1:j:283:SER:H	1:j:286:HIS:HD2	1.63	0.44
1:n:180:ASP:OD2	1:n:185:LEU:HD12	2.16	0.44
1:o:136:GLU:HA	1:o:277:LEU:HD13	1.99	0.44
1:p:138:THR:HG23	1:p:140:GLU:OE2	2.17	0.44
1:q:317:ARG:O	1:r:376:LYS:HG2	2.18	0.44
1:s:138:THR:HG23	1:s:140:GLU:OE2	2.17	0.44
1:u:276:GLN:NE2	1:u:562:ARG:HH12	2.15	0.44
1:v:386:ASP:O	1:v:553:HIS:HB3	2.18	0.44
1:x:287:THR:HG22	1:x:569:MET:HE2	2.00	0.44
1:z:318:SER:HB2	1:1:376:LYS:HZ1	1.83	0.44
1:z:450:PRO:HB2	1:z:451:TRP:CD2	2.52	0.44
1:7:138:THR:HG23	1:7:140:GLU:OE2	2.17	0.44
1:7:386:ASP:O	1:7:553:HIS:HB3	2.18	0.44
1:8:136:GLU:HA	1:8:277:LEU:HD13	1.99	0.44
1:8:447:ILE:HB	1:8:561:GLY:HA3	1.99	0.44
1:A:276:GLN:NE2	1:A:562:ARG:HH12	2.15	0.44
1:A:386:ASP:O	1:A:553:HIS:HB3	2.18	0.44
1:B:135:ARG:NH2	1:B:523:LEU:O	2.51	0.44
1:C:398:ASN:HB3	1:C:401:ILE:HD12	1.99	0.44
1:E:447:ILE:O	1:E:561:GLY:N	2.41	0.44
1:E:450:PRO:HB2	1:E:451:TRP:CD2	2.52	0.44
1:H:447:ILE:HB	1:H:561:GLY:HA3	1.99	0.44
1:J:135:ARG:NH2	1:J:523:LEU:O	2.51	0.44
1:J:136:GLU:HA	1:J:277:LEU:HD13	1.99	0.44
1:M:138:THR:HG23	1:M:140:GLU:OE2	2.17	0.44
1:Q:287:THR:HG22	1:Q:569:MET:HE2	2.00	0.44
1:R:401:ILE:HG22	1:R:401:ILE:O	2.17	0.44
1:U:450:PRO:HB2	1:U:451:TRP:CD2	2.52	0.44
1:V:138:THR:HG23	1:V:140:GLU:OE2	2.17	0.44
1:b:135:ARG:NH2	1:b:523:LEU:O	2.51	0.44
1:g:138:THR:HG23	1:g:140:GLU:OE2	2.17	0.44
1:g:287:THR:HG22	1:g:569:MET:HE2	2.00	0.44
1:g:447:ILE:O	1:g:561:GLY:N	2.41	0.44
1:n:136:GLU:HA	1:n:277:LEU:HD13	1.99	0.44
1:o:138:THR:HG23	1:o:140:GLU:OE2	2.17	0.44
1:o:287:THR:HG22	1:o:569:MET:HE2	2.00	0.44
1:p:135:ARG:NH2	1:p:523:LEU:O	2.51	0.44
1:q:287:THR:HG22	1:q:569:MET:HE2	2.00	0.44
1:t:136:GLU:HA	1:t:277:LEU:HD13	1.99	0.44
1:v:276:GLN:NE2	1:v:562:ARG:HH12	2.15	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:v:404:GLN:NE2	1:v:443:ASP:N	2.58	0.44
1:w:450:PRO:HB2	1:w:451:TRP:CD2	2.52	0.44
1:y:136:GLU:HA	1:y:277:LEU:HD13	1.99	0.44
1:y:180:ASP:OD2	1:y:185:LEU:HD12	2.16	0.44
1:y:386:ASP:O	1:y:553:HIS:HB3	2.18	0.44
1:2:136:GLU:HA	1:2:277:LEU:HD13	1.99	0.44
1:5:447:ILE:HB	1:5:561:GLY:HA3	1.99	0.44
1:6:447:ILE:O	1:6:561:GLY:N	2.41	0.44
1:B:287:THR:HG22	1:B:569:MET:HE2	2.00	0.44
1:C:287:THR:HG22	1:C:569:MET:HE2	2.00	0.44
1:D:398:ASN:HB3	1:D:401:ILE:HD12	1.99	0.44
1:E:386:ASP:O	1:E:553:HIS:HB3	2.18	0.44
1:F:136:GLU:HA	1:F:277:LEU:HD13	1.99	0.44
1:G:257:LEU:HD22	1:G:261:ASP:HB3	2.00	0.44
1:H:386:ASP:O	1:H:553:HIS:HB3	2.18	0.44
1:I:447:ILE:HB	1:I:561:GLY:HA3	1.99	0.44
1:L:276:GLN:NE2	1:L:562:ARG:HH12	2.15	0.44
1:M:287:THR:HG22	1:M:569:MET:HE2	2.00	0.44
1:N:287:THR:HG22	1:N:569:MET:HE2	1.99	0.44
1:U:398:ASN:HB3	1:U:401:ILE:HD12	1.99	0.44
1:V:92:LEU:HD13	1:X:421:VAL:HG11	2.00	0.44
1:V:135:ARG:NH2	1:V:523:LEU:O	2.51	0.44
1:V:447:ILE:HB	1:V:561:GLY:HA3	1.99	0.44
1:X:287:THR:HG22	1:X:569:MET:HE2	2.00	0.44
1:X:447:ILE:O	1:X:561:GLY:N	2.41	0.44
1:a:447:ILE:HB	1:a:561:GLY:HA3	1.99	0.44
1:g:136:GLU:HA	1:g:277:LEU:HD13	1.99	0.44
1:g:398:ASN:HB3	1:g:401:ILE:HD12	1.99	0.44
1:k:398:ASN:HB3	1:k:401:ILE:HD12	1.99	0.44
1:n:376:LYS:CD	1:n:395:TRP:HB2	2.46	0.44
1:n:447:ILE:HB	1:n:561:GLY:HA3	1.99	0.44
1:p:447:ILE:HB	1:p:561:GLY:HA3	1.99	0.44
1:r:257:LEU:HD22	1:r:261:ASP:HB3	2.00	0.44
1:r:287:THR:HG22	1:r:569:MET:HE2	2.00	0.44
1:t:257:LEU:HD22	1:t:261:ASP:HB3	2.00	0.44
1:u:447:ILE:HB	1:u:561:GLY:HA3	1.99	0.44
1:3:447:ILE:HB	1:3:561:GLY:HA3	1.99	0.44
1:4:287:THR:HG22	1:4:569:MET:HE2	2.00	0.44
1:5:386:ASP:O	1:5:553:HIS:HB3	2.18	0.44
1:A:135:ARG:NH2	1:A:523:LEU:O	2.51	0.44
1:C:135:ARG:NH2	1:C:523:LEU:O	2.51	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:257:LEU:HD22	1:C:261:ASP:HB3	2.00	0.44
1:D:135:ARG:NH2	1:D:523:LEU:O	2.51	0.44
1:H:193:TYR:CZ	1:Y:326:ARG:HD3	2.53	0.44
1:K:135:ARG:NH2	1:K:523:LEU:O	2.51	0.44
1:P:136:GLU:HA	1:P:277:LEU:HD13	1.99	0.44
1:Q:386:ASP:O	1:Q:553:HIS:HB3	2.18	0.44
1:R:287:THR:HG22	1:R:569:MET:HE2	2.00	0.44
1:R:398:ASN:HB3	1:R:401:ILE:HD12	1.99	0.44
1:S:257:LEU:HD22	1:S:261:ASP:HB3	2.00	0.44
1:S:287:THR:HG22	1:S:569:MET:HE2	2.00	0.44
1:U:287:THR:HG22	1:U:569:MET:HE2	1.99	0.44
1:X:401:ILE:O	1:X:401:ILE:HG22	2.17	0.44
1:a:276:GLN:NE2	1:a:562:ARG:HH12	2.15	0.44
1:d:136:GLU:HA	1:d:277:LEU:HD13	1.99	0.44
1:d:257:LEU:HD22	1:d:261:ASP:HB3	2.00	0.44
1:d:287:THR:HG22	1:d:569:MET:HE2	2.00	0.44
1:d:447:ILE:HB	1:d:561:GLY:HA3	1.99	0.44
1:f:135:ARG:NH2	1:f:523:LEU:O	2.51	0.44
1:g:135:ARG:NH2	1:g:523:LEU:O	2.51	0.44
1:g:257:LEU:HD22	1:g:261:ASP:HB3	2.00	0.44
1:g:531:LEU:CD1	1:z:128:GLN:CG	2.91	0.44
1:i:287:THR:HG22	1:i:569:MET:HE2	2.00	0.44
1:j:136:GLU:HA	1:j:277:LEU:HD13	1.99	0.44
1:j:326:ARG:HD3	1:k:193:TYR:CZ	2.53	0.44
1:k:135:ARG:NH2	1:k:523:LEU:O	2.51	0.44
1:k:386:ASP:O	1:k:553:HIS:HB3	2.18	0.44
1:n:257:LEU:HD22	1:n:261:ASP:HB3	2.00	0.44
1:o:398:ASN:HB3	1:o:401:ILE:HD12	1.99	0.44
1:q:92:LEU:HD13	1:s:421:VAL:HG11	2.00	0.44
1:s:398:ASN:HB3	1:s:401:ILE:HD12	1.99	0.44
1:w:386:ASP:O	1:w:553:HIS:HB3	2.18	0.44
1:x:138:THR:HG23	1:x:140:GLU:OE2	2.17	0.44
1:y:404:GLN:NE2	1:y:443:ASP:N	2.58	0.44
1:z:276:GLN:NE2	1:z:562:ARG:HH12	2.15	0.44
1:z:447:ILE:HB	1:z:561:GLY:HA3	1.99	0.44
1:1:135:ARG:NH2	1:1:523:LEU:O	2.51	0.44
1:1:447:ILE:HB	1:1:561:GLY:HA3	1.99	0.44
1:2:128:GLN:CG	1:4:531:LEU:CD1	2.92	0.44
1:4:276:GLN:NE2	1:4:562:ARG:HH12	2.15	0.44
1:4:386:ASP:O	1:4:553:HIS:HB3	2.18	0.44
1:5:193:TYR:CZ	1:7:326:ARG:HD3	2.53	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:6:398:ASN:HB3	1:6:401:ILE:HD12	1.99	0.44
1:8:276:GLN:NE2	1:8:562:ARG:HH12	2.15	0.44
1:B:386:ASP:O	1:B:553:HIS:HB3	2.18	0.44
1:B:447:ILE:HB	1:B:561:GLY:HA3	1.99	0.44
1:C:326:ARG:HD3	1:b:193:TYR:CZ	2.53	0.44
1:C:386:ASP:O	1:C:553:HIS:HB3	2.18	0.44
1:D:193:TYR:CZ	1:P:326:ARG:HD3	2.53	0.44
1:D:386:ASP:O	1:D:553:HIS:HB3	2.18	0.44
1:O:136:GLU:HA	1:O:277:LEU:HD13	1.99	0.44
1:O:257:LEU:HD22	1:O:261:ASP:HB3	2.00	0.44
1:O:287:THR:HG22	1:O:569:MET:HE2	2.00	0.44
1:Q:138:THR:HG23	1:Q:140:GLU:OE2	2.17	0.44
1:R:92:LEU:HD13	1:U:421:VAL:HG11	2.00	0.44
1:S:326:ARG:HD3	1:U:193:TYR:CZ	2.53	0.44
1:T:92:LEU:HD13	1:l:421:VAL:HG11	2.00	0.44
1:U:257:LEU:HD22	1:U:261:ASP:HB3	2.00	0.44
1:V:136:GLU:HA	1:V:277:LEU:HD13	1.99	0.44
1:Y:287:THR:HG22	1:Y:569:MET:HE2	2.00	0.44
1:Y:447:ILE:O	1:Y:561:GLY:N	2.41	0.44
1:c:386:ASP:O	1:c:553:HIS:HB3	2.18	0.44
1:f:92:LEU:HD13	1:g:421:VAL:HG11	2.00	0.44
1:f:193:TYR:CZ	1:g:326:ARG:HD3	2.53	0.44
1:i:138:THR:HG23	1:i:140:GLU:OE2	2.17	0.44
1:l:136:GLU:HA	1:l:277:LEU:HD13	1.99	0.44
1:l:257:LEU:HD22	1:l:261:ASP:HB3	2.00	0.44
1:l:287:THR:HG22	1:l:569:MET:HE2	2.00	0.44
1:n:287:THR:HG22	1:n:569:MET:HE2	2.00	0.44
1:o:401:ILE:O	1:o:401:ILE:HG22	2.17	0.44
1:o:447:ILE:O	1:o:561:GLY:N	2.41	0.44
1:p:136:GLU:HA	1:p:277:LEU:HD13	1.99	0.44
1:q:398:ASN:HB3	1:q:401:ILE:HD12	1.99	0.44
1:q:401:ILE:O	1:q:401:ILE:HG22	2.17	0.44
1:r:398:ASN:HB3	1:r:401:ILE:HD12	1.99	0.44
1:s:257:LEU:HD22	1:s:261:ASP:HB3	2.00	0.44
1:s:287:THR:HG22	1:s:569:MET:HE2	1.99	0.44
1:x:257:LEU:HD22	1:x:261:ASP:HB3	2.00	0.44
1:x:386:ASP:O	1:x:553:HIS:HB3	2.18	0.44
1:1:287:THR:HG22	1:1:569:MET:HE2	2.00	0.44
1:3:136:GLU:HA	1:3:277:LEU:HD13	1.99	0.44
1:3:276:GLN:NE2	1:3:562:ARG:HH12	2.15	0.44
1:4:135:ARG:NH2	1:4:523:LEU:O	2.51	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:5:447:ILE:O	1:5:561:GLY:N	2.41	0.44
1:7:287:THR:HG22	1:7:569:MET:HE2	2.00	0.44
1:7:397:ASN:OD1	1:7:397:ASN:N	2.49	0.44
1:8:398:ASN:HB3	1:8:401:ILE:HD12	1.99	0.44
1:A:404:GLN:NE2	1:A:443:ASP:N	2.58	0.43
1:B:193:TYR:CZ	1:L:326:ARG:HD3	2.53	0.43
1:C:136:GLU:HA	1:C:277:LEU:HD13	1.99	0.43
1:C:421:VAL:HG11	1:b:92:LEU:HD13	2.00	0.43
1:C:540:GLY:O	1:C:541:THR:OG1	2.28	0.43
1:E:92:LEU:HD13	1:F:421:VAL:HG11	2.00	0.43
1:E:135:ARG:NH2	1:E:523:LEU:O	2.51	0.43
1:F:193:TYR:CZ	1:Q:326:ARG:HD3	2.53	0.43
1:F:398:ASN:HB3	1:F:401:ILE:HD12	1.99	0.43
1:F:404:GLN:NE2	1:F:443:ASP:N	2.58	0.43
1:G:398:ASN:HB3	1:G:401:ILE:HD12	1.99	0.43
1:J:386:ASP:O	1:J:553:HIS:HB3	2.18	0.43
1:K:287:THR:HG22	1:K:569:MET:HE2	2.00	0.43
1:K:386:ASP:O	1:K:553:HIS:HB3	2.18	0.43
1:L:447:ILE:HB	1:L:561:GLY:HA3	1.99	0.43
1:O:193:TYR:CZ	1:n:326:ARG:HD3	2.53	0.43
1:O:421:VAL:HG11	1:m:92:LEU:HD13	2.00	0.43
1:Q:257:LEU:HD22	1:Q:261:ASP:HB3	2.00	0.43
1:W:398:ASN:HB3	1:W:401:ILE:HD12	1.99	0.43
1:Z:276:GLN:NE2	1:Z:562:ARG:HH12	2.15	0.43
1:c:257:LEU:HD22	1:c:261:ASP:HB3	2.00	0.43
1:c:287:THR:HG22	1:c:569:MET:HE2	2.00	0.43
1:d:326:ARG:HD3	1:l:193:TYR:CZ	2.53	0.43
1:e:257:LEU:HD22	1:e:261:ASP:HB3	2.00	0.43
1:e:386:ASP:O	1:e:553:HIS:HB3	2.18	0.43
1:f:386:ASP:O	1:f:553:HIS:HB3	2.18	0.43
1:g:386:ASP:O	1:g:553:HIS:HB3	2.18	0.43
1:h:217:TRP:O	1:h:236:LYS:HA	2.16	0.43
1:i:421:VAL:HG11	1:j:92:LEU:HD13	2.01	0.43
1:j:421:VAL:HG11	1:k:92:LEU:HD13	2.00	0.43
1:p:398:ASN:HB3	1:p:401:ILE:HD12	1.99	0.43
1:q:136:GLU:HA	1:q:277:LEU:HD13	1.99	0.43
1:r:326:ARG:HD3	1:s:193:TYR:CZ	2.53	0.43
1:s:386:ASP:O	1:s:553:HIS:HB3	2.18	0.43
1:t:193:TYR:CZ	1:v:326:ARG:HD3	2.53	0.43
1:t:398:ASN:HB3	1:t:401:ILE:HD12	1.99	0.43
1:w:447:ILE:O	1:w:561:GLY:N	2.41	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:x:326:ARG:HD3	1:y:193:TYR:CZ	2.53	0.43
1:y:398:ASN:HB3	1:y:401:ILE:HD12	1.99	0.43
1:1:386:ASP:O	1:1:553:HIS:HB3	2.18	0.43
1:3:386:ASP:O	1:3:553:HIS:HB3	2.18	0.43
1:A:326:ARG:HD3	1:G:193:TYR:CZ	2.53	0.43
1:A:398:ASN:HB3	1:A:401:ILE:HD12	1.99	0.43
1:C:193:TYR:CZ	1:M:326:ARG:HD3	2.53	0.43
1:D:92:LEU:HD13	1:P:421:VAL:HG11	2.00	0.43
1:F:172:THR:CG2	1:R:259:THR:HG21	2.48	0.43
1:G:287:THR:HG22	1:G:569:MET:HE2	2.00	0.43
1:H:257:LEU:HD22	1:H:261:ASP:HB3	2.00	0.43
1:I:386:ASP:O	1:I:553:HIS:HB3	2.18	0.43
1:K:421:VAL:HG11	1:a:92:LEU:HD13	2.00	0.43
1:L:287:THR:CG2	1:L:569:MET:HE2	2.49	0.43
1:L:386:ASP:O	1:L:553:HIS:HB3	2.18	0.43
1:M:135:ARG:NH2	1:M:523:LEU:O	2.51	0.43
1:M:217:TRP:O	1:M:236:LYS:HA	2.16	0.43
1:N:138:THR:HG23	1:N:140:GLU:OE2	2.17	0.43
1:N:404:GLN:NE2	1:N:443:ASP:N	2.58	0.43
1:N:421:VAL:HG11	1:P:92:LEU:HD13	2.01	0.43
1:O:386:ASP:O	1:O:553:HIS:HB3	2.18	0.43
1:Q:135:ARG:NH2	1:Q:523:LEU:O	2.51	0.43
1:R:136:GLU:HA	1:R:277:LEU:HD13	1.99	0.43
1:S:287:THR:CG2	1:S:569:MET:HE2	2.49	0.43
1:S:386:ASP:O	1:S:553:HIS:HB3	2.18	0.43
1:S:398:ASN:HB3	1:S:401:ILE:HD12	1.99	0.43
1:T:326:ARG:HD3	1:d:193:TYR:CZ	2.53	0.43
1:T:386:ASP:O	1:T:553:HIS:HB3	2.18	0.43
1:U:386:ASP:O	1:U:553:HIS:HB3	2.18	0.43
1:V:398:ASN:HB3	1:V:401:ILE:HD12	1.99	0.43
1:X:398:ASN:HB3	1:X:401:ILE:HD12	1.99	0.43
1:Y:397:ASN:OD1	1:Y:397:ASN:N	2.49	0.43
1:Z:398:ASN:HB3	1:Z:401:ILE:HD12	1.99	0.43
1:a:386:ASP:O	1:a:553:HIS:HB3	2.18	0.43
1:e:287:THR:HG22	1:e:569:MET:HE2	2.00	0.43
1:g:193:TYR:CZ	1:h:326:ARG:HD3	2.53	0.43
1:g:401:ILE:O	1:g:401:ILE:HG22	2.17	0.43
1:g:540:GLY:O	1:g:541:THR:OG1	2.28	0.43
1:i:404:GLN:NE2	1:i:443:ASP:N	2.58	0.43
1:l:386:ASP:O	1:l:553:HIS:HB3	2.18	0.43
1:m:257:LEU:HD22	1:m:261:ASP:HB3	2.00	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:m:326:ARG:HD3	1:n:193:TYR:CZ	2.53	0.43
1:m:386:ASP:O	1:m:553:HIS:HB3	2.18	0.43
1:n:447:ILE:O	1:n:561:GLY:N	2.41	0.43
1:o:421:VAL:HG11	1:p:92:LEU:HD13	2.00	0.43
1:p:276:GLN:NE2	1:p:562:ARG:HH12	2.15	0.43
1:r:287:THR:CG2	1:r:569:MET:HE2	2.49	0.43
1:r:386:ASP:O	1:r:553:HIS:HB3	2.18	0.43
1:t:287:THR:HG22	1:t:569:MET:HE2	2.00	0.43
1:u:386:ASP:O	1:u:553:HIS:HB3	2.18	0.43
1:w:135:ARG:NH2	1:w:523:LEU:O	2.51	0.43
1:w:376:LYS:HZ1	1:y:318:SER:HB2	1.83	0.43
1:x:135:ARG:NH2	1:x:523:LEU:O	2.51	0.43
1:z:287:THR:CG2	1:z:569:MET:HE2	2.48	0.43
1:3:92:LEU:HD13	1:4:421:VAL:HG11	2.00	0.43
1:5:257:LEU:HD22	1:5:261:ASP:HB3	2.00	0.43
1:6:326:ARG:HD3	1:7:193:TYR:CZ	2.53	0.43
1:7:447:ILE:O	1:7:561:GLY:N	2.41	0.43
1:B:545:LYS:O	1:B:546:PHE:HB2	2.19	0.43
1:C:401:ILE:O	1:C:401:ILE:HG22	2.17	0.43
1:E:545:LYS:O	1:E:546:PHE:HB2	2.19	0.43
1:F:287:THR:CG2	1:F:569:MET:HE2	2.49	0.43
1:F:545:LYS:O	1:F:546:PHE:HB2	2.19	0.43
1:I:398:ASN:HB3	1:I:401:ILE:HD12	1.99	0.43
1:N:398:ASN:HB3	1:N:401:ILE:HD12	1.99	0.43
1:O:287:THR:CG2	1:O:569:MET:HE2	2.49	0.43
1:Q:287:THR:CG2	1:Q:569:MET:HE2	2.49	0.43
1:S:545:LYS:O	1:S:546:PHE:HB2	2.19	0.43
1:T:135:ARG:NH2	1:T:523:LEU:O	2.51	0.43
1:T:257:LEU:HD22	1:T:261:ASP:HB3	2.00	0.43
1:U:447:ILE:HB	1:U:561:GLY:HA3	1.99	0.43
1:V:193:TYR:CZ	1:X:326:ARG:HD3	2.53	0.43
1:V:326:ARG:HD3	1:e:193:TYR:CZ	2.53	0.43
1:W:136:GLU:HA	1:W:277:LEU:HD13	1.99	0.43
1:W:326:ARG:HD3	1:Y:193:TYR:CZ	2.53	0.43
1:a:136:GLU:HA	1:a:277:LEU:HD13	1.99	0.43
1:b:386:ASP:O	1:b:553:HIS:HB3	2.18	0.43
1:c:135:ARG:NH2	1:c:523:LEU:O	2.51	0.43
1:d:447:ILE:O	1:d:561:GLY:N	2.41	0.43
1:i:398:ASN:HB3	1:i:401:ILE:HD12	1.99	0.43
1:l:287:THR:CG2	1:l:569:MET:HE2	2.49	0.43
1:m:135:ARG:NH2	1:m:523:LEU:O	2.51	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:m:421:VAL:HG11	1:n:92:LEU:HD13	2.00	0.43
1:q:259:THR:HG21	1:y:172:THR:CG2	2.48	0.43
1:r:545:LYS:O	1:r:546:PHE:HB2	2.19	0.43
1:s:447:ILE:HB	1:s:561:GLY:HA3	1.99	0.43
1:t:276:GLN:NE2	1:t:562:ARG:HH12	2.15	0.43
1:u:398:ASN:HB3	1:u:401:ILE:HD12	1.99	0.43
1:x:287:THR:CG2	1:x:569:MET:HE2	2.49	0.43
1:y:287:THR:CG2	1:y:569:MET:HE2	2.49	0.43
1:y:545:LYS:O	1:y:546:PHE:HB2	2.19	0.43
1:z:386:ASP:O	1:z:553:HIS:HB3	2.18	0.43
1:1:545:LYS:O	1:1:546:PHE:HB2	2.19	0.43
1:2:386:ASP:O	1:2:553:HIS:HB3	2.18	0.43
1:4:398:ASN:HB3	1:4:401:ILE:HD12	1.99	0.43
1:B:257:LEU:HD22	1:B:261:ASP:HB3	2.00	0.43
1:G:276:GLN:NE2	1:G:562:ARG:HH12	2.15	0.43
1:H:92:LEU:HD13	1:Y:421:VAL:HG11	2.01	0.43
1:J:128:GLN:CG	1:K:531:LEU:CD1	2.93	0.43
1:K:398:ASN:HB3	1:K:401:ILE:HD12	1.99	0.43
1:M:447:ILE:O	1:M:561:GLY:N	2.41	0.43
1:O:127:PHE:CE2	1:O:449:TYR:HB2	2.54	0.43
1:O:326:ARG:HD3	1:m:193:TYR:CZ	2.53	0.43
1:Q:545:LYS:O	1:Q:546:PHE:HB2	2.19	0.43
1:R:386:ASP:O	1:R:553:HIS:HB3	2.18	0.43
1:T:421:VAL:HG11	1:d:92:LEU:HD13	2.00	0.43
1:X:135:ARG:NH2	1:X:523:LEU:O	2.51	0.43
1:Z:386:ASP:O	1:Z:553:HIS:HB3	2.18	0.43
1:a:257:LEU:HD22	1:a:261:ASP:HB3	2.00	0.43
1:a:545:LYS:O	1:a:546:PHE:HB2	2.19	0.43
1:b:127:PHE:CE2	1:b:449:TYR:HB2	2.54	0.43
1:b:545:LYS:O	1:b:546:PHE:HB2	2.19	0.43
1:c:287:THR:CG2	1:c:569:MET:HE2	2.49	0.43
1:e:135:ARG:NH2	1:e:523:LEU:O	2.51	0.43
1:e:287:THR:CG2	1:e:569:MET:HE2	2.49	0.43
1:f:127:PHE:CE2	1:f:449:TYR:HB2	2.54	0.43
1:h:135:ARG:NH2	1:h:523:LEU:O	2.51	0.43
1:h:257:LEU:HD22	1:h:261:ASP:HB3	2.00	0.43
1:j:398:ASN:HB3	1:j:401:ILE:HD12	1.99	0.43
1:k:287:THR:CG2	1:k:569:MET:HE2	2.49	0.43
1:l:127:PHE:CE2	1:l:449:TYR:HB2	2.54	0.43
1:o:135:ARG:NH2	1:o:523:LEU:O	2.51	0.43
1:o:326:ARG:HD3	1:p:193:TYR:CZ	2.53	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:p:545:LYS:O	1:p:546:PHE:HB2	2.19	0.43
1:q:135:ARG:NH2	1:q:523:LEU:O	2.51	0.43
1:q:386:ASP:O	1:q:553:HIS:HB3	2.18	0.43
1:v:398:ASN:HB3	1:v:401:ILE:HD12	1.99	0.43
1:w:92:LEU:HD13	1:y:421:VAL:HG11	2.01	0.43
1:w:326:ARG:HD3	1:x:193:TYR:CZ	2.53	0.43
1:w:545:LYS:O	1:w:546:PHE:HB2	2.19	0.43
1:x:545:LYS:O	1:x:546:PHE:HB2	2.19	0.43
1:5:92:LEU:HD13	1:7:421:VAL:HG11	2.01	0.43
1:6:136:GLU:HA	1:6:277:LEU:HD13	1.99	0.43
1:6:545:LYS:O	1:6:546:PHE:HB2	2.19	0.43
1:A:136:GLU:HA	1:A:277:LEU:HD13	1.99	0.43
1:A:545:LYS:O	1:A:546:PHE:HB2	2.19	0.43
1:D:287:THR:CG2	1:D:569:MET:HE2	2.49	0.43
1:E:257:LEU:HD22	1:E:261:ASP:HB3	2.00	0.43
1:E:326:ARG:HD3	1:Q:193:TYR:CZ	2.53	0.43
1:F:257:LEU:HD22	1:F:261:ASP:HB3	2.00	0.43
1:H:276:GLN:NE2	1:H:562:ARG:HH12	2.15	0.43
1:H:287:THR:HG22	1:H:569:MET:HE2	2.00	0.43
1:I:127:PHE:CE2	1:I:449:TYR:HB2	2.54	0.43
1:K:193:TYR:CZ	1:8:326:ARG:HD3	2.53	0.43
1:L:360:PRO:HD3	1:L:402:THR:HG22	2.01	0.43
1:M:257:LEU:HD22	1:M:261:ASP:HB3	2.00	0.43
1:M:447:ILE:HB	1:M:561:GLY:HA3	1.99	0.43
1:P:398:ASN:HB3	1:P:401:ILE:HD12	1.99	0.43
1:Q:531:LEU:CD1	1:R:128:GLN:CG	2.93	0.43
1:R:135:ARG:NH2	1:R:523:LEU:O	2.51	0.43
1:S:447:ILE:O	1:S:561:GLY:N	2.41	0.43
1:T:193:TYR:CZ	1:l:326:ARG:HD3	2.53	0.43
1:U:135:ARG:NH2	1:U:523:LEU:O	2.51	0.43
1:V:276:GLN:NE2	1:V:562:ARG:HH12	2.15	0.43
1:W:545:LYS:O	1:W:546:PHE:HB2	2.19	0.43
1:Y:276:GLN:NE2	1:Y:562:ARG:HH12	2.15	0.43
1:Y:284:THR:HG21	1:Y:331:HIS:HA	2.01	0.43
1:Y:545:LYS:O	1:Y:546:PHE:HB2	2.19	0.43
1:Z:127:PHE:CE2	1:Z:449:TYR:HB2	2.54	0.43
1:Z:135:ARG:NH2	1:Z:523:LEU:O	2.51	0.43
1:c:127:PHE:CE2	1:c:449:TYR:HB2	2.54	0.43
1:c:193:TYR:CZ	1:p:326:ARG:HD3	2.53	0.43
1:g:127:PHE:CE2	1:g:449:TYR:HB2	2.54	0.43
1:i:284:THR:HG21	1:i:331:HIS:HA	2.01	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:i:386:ASP:O	1:i:553:HIS:HB3	2.18	0.43
1:p:360:PRO:HD3	1:p:402:THR:HG22	2.01	0.43
1:s:545:LYS:O	1:s:546:PHE:HB2	2.19	0.43
1:u:127:PHE:CE2	1:u:449:TYR:HB2	2.54	0.43
1:v:127:PHE:CE2	1:v:449:TYR:HB2	2.54	0.43
1:v:545:LYS:O	1:v:546:PHE:HB2	2.19	0.43
1:w:136:GLU:HA	1:w:277:LEU:HD13	1.99	0.43
1:w:257:LEU:HD22	1:w:261:ASP:HB3	2.00	0.43
1:1:257:LEU:HD22	1:1:261:ASP:HB3	2.00	0.43
1:3:257:LEU:HD22	1:3:261:ASP:HB3	2.00	0.43
1:3:545:LYS:O	1:3:546:PHE:HB2	2.19	0.43
1:5:276:GLN:NE2	1:5:562:ARG:HH12	2.15	0.43
1:6:127:PHE:CE2	1:6:449:TYR:HB2	2.54	0.43
1:7:284:THR:HG21	1:7:331:HIS:HA	2.01	0.43
1:7:545:LYS:O	1:7:546:PHE:HB2	2.19	0.43
1:8:135:ARG:NH2	1:8:523:LEU:O	2.51	0.43
1:8:386:ASP:O	1:8:553:HIS:HB3	2.18	0.43
1:A:127:PHE:CE2	1:A:449:TYR:HB2	2.54	0.43
1:C:127:PHE:CE2	1:C:449:TYR:HB2	2.54	0.43
1:E:193:TYR:CZ	1:F:326:ARG:HD3	2.53	0.43
1:E:276:GLN:NE2	1:E:562:ARG:HH12	2.15	0.43
1:F:287:THR:HG22	1:F:569:MET:HE2	2.00	0.43
1:F:447:ILE:HB	1:F:561:GLY:HA3	1.99	0.43
1:H:127:PHE:CE2	1:H:449:TYR:HB2	2.54	0.43
1:I:284:THR:HG21	1:I:331:HIS:HA	2.01	0.43
1:N:284:THR:HG21	1:N:331:HIS:HA	2.01	0.43
1:N:287:THR:CG2	1:N:569:MET:HE2	2.49	0.43
1:N:386:ASP:O	1:N:553:HIS:HB3	2.18	0.43
1:P:386:ASP:O	1:P:553:HIS:HB3	2.18	0.43
1:R:127:PHE:CE2	1:R:449:TYR:HB2	2.54	0.43
1:R:287:THR:CG2	1:R:569:MET:HE2	2.49	0.43
1:U:545:LYS:O	1:U:546:PHE:HB2	2.19	0.43
1:V:360:PRO:HD3	1:V:402:THR:HG22	2.01	0.43
1:V:545:LYS:O	1:V:546:PHE:HB2	2.19	0.43
1:W:127:PHE:CE2	1:W:449:TYR:HB2	2.54	0.43
1:W:287:THR:CG2	1:W:569:MET:HE2	2.49	0.43
1:X:360:PRO:HD3	1:X:402:THR:HG22	2.01	0.43
1:Z:193:TYR:CZ	1:3:326:ARG:HD3	2.53	0.43
1:e:127:PHE:CE2	1:e:449:TYR:HB2	2.54	0.43
1:h:447:ILE:O	1:h:561:GLY:N	2.41	0.43
1:i:287:THR:CG2	1:i:569:MET:HE2	2.49	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:q:128:GLN:CG	1:x:531:LEU:CD1	2.93	0.43
1:q:287:THR:CG2	1:q:569:MET:HE2	2.49	0.43
1:t:404:GLN:NE2	1:t:443:ASP:N	2.58	0.43
1:u:284:THR:HG21	1:u:331:HIS:HA	2.01	0.43
1:v:136:GLU:HA	1:v:277:LEU:HD13	1.99	0.43
1:y:287:THR:HG22	1:y:569:MET:HE2	2.00	0.43
1:y:447:ILE:HB	1:y:561:GLY:HA3	1.99	0.43
1:2:257:LEU:HD22	1:2:261:ASP:HB3	2.00	0.43
1:2:276:GLN:NE2	1:2:562:ARG:HH12	2.15	0.43
1:5:127:PHE:CE2	1:5:449:TYR:HB2	2.54	0.43
1:5:287:THR:CG2	1:5:569:MET:HE2	2.49	0.43
1:5:545:LYS:O	1:5:546:PHE:HB2	2.19	0.43
1:7:276:GLN:NE2	1:7:562:ARG:HH12	2.15	0.43
1:8:127:PHE:CE2	1:8:449:TYR:HB2	2.54	0.43
1:A:138:THR:HG23	1:A:140:GLU:OE2	2.17	0.43
1:A:284:THR:HG21	1:A:331:HIS:HA	2.01	0.43
1:C:545:LYS:O	1:C:546:PHE:HB2	2.19	0.43
1:E:136:GLU:HA	1:E:277:LEU:HD13	1.99	0.43
1:E:287:THR:HG22	1:E:569:MET:HE2	2.00	0.43
1:H:287:THR:CG2	1:H:569:MET:HE2	2.49	0.43
1:H:545:LYS:O	1:H:546:PHE:HB2	2.19	0.43
1:J:257:LEU:HD22	1:J:261:ASP:HB3	2.00	0.43
1:J:287:THR:CG2	1:J:569:MET:HE2	2.49	0.43
1:K:284:THR:HG21	1:K:331:HIS:HA	2.01	0.43
1:M:388:PRO:C	1:M:390:HIS:H	2.27	0.43
1:N:404:GLN:NE2	1:N:443:ASP:H	2.07	0.43
1:P:284:THR:HG21	1:P:331:HIS:HA	2.01	0.43
1:P:404:GLN:NE2	1:P:443:ASP:H	2.07	0.43
1:R:284:THR:HG21	1:R:331:HIS:HA	2.01	0.43
1:S:284:THR:HG21	1:S:331:HIS:HA	2.01	0.43
1:V:127:PHE:CE2	1:V:449:TYR:HB2	2.54	0.43
1:Z:287:THR:CG2	1:Z:569:MET:HE2	2.49	0.43
1:Z:326:ARG:HD3	1:4:193:TYR:CZ	2.53	0.43
1:a:326:ARG:HD3	1:8:193:TYR:CZ	2.53	0.43
1:d:386:ASP:O	1:d:553:HIS:HB3	2.18	0.43
1:f:172:THR:CG2	1:z:259:THR:HG21	2.49	0.43
1:f:284:THR:HG21	1:f:331:HIS:HA	2.01	0.43
1:f:545:LYS:O	1:f:546:PHE:HB2	2.19	0.43
1:g:545:LYS:O	1:g:546:PHE:HB2	2.19	0.43
1:h:447:ILE:HB	1:h:561:GLY:HA3	1.99	0.43
1:j:284:THR:HG21	1:j:331:HIS:HA	2.01	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:j:386:ASP:O	1:j:553:HIS:HB3	2.18	0.43
1:k:360:PRO:HD3	1:k:402:THR:HG22	2.01	0.43
1:m:287:THR:CG2	1:m:569:MET:HE2	2.49	0.43
1:o:284:THR:HG21	1:o:331:HIS:HA	2.01	0.43
1:o:360:PRO:HD3	1:o:402:THR:HG22	2.01	0.43
1:p:127:PHE:CE2	1:p:449:TYR:HB2	2.54	0.43
1:p:257:LEU:HD22	1:p:261:ASP:HB3	2.00	0.43
1:q:127:PHE:CE2	1:q:449:TYR:HB2	2.54	0.43
1:s:135:ARG:NH2	1:s:523:LEU:O	2.51	0.43
1:t:135:ARG:NH2	1:t:523:LEU:O	2.51	0.43
1:u:326:ARG:HD3	1:v:193:TYR:CZ	2.53	0.43
1:v:284:THR:HG21	1:v:331:HIS:HA	2.01	0.43
1:w:193:TYR:CZ	1:y:326:ARG:HD3	2.53	0.43
1:w:287:THR:HG22	1:w:569:MET:HE2	2.00	0.43
1:y:257:LEU:HD22	1:y:261:ASP:HB3	2.00	0.43
1:z:360:PRO:HD3	1:z:402:THR:HG22	2.01	0.43
1:1:287:THR:CG2	1:1:569:MET:HE2	2.49	0.43
1:2:287:THR:CG2	1:2:569:MET:HE2	2.49	0.43
1:4:284:THR:HG21	1:4:331:HIS:HA	2.01	0.43
1:5:287:THR:HG22	1:5:569:MET:HE2	2.00	0.43
1:6:287:THR:CG2	1:6:569:MET:HE2	2.49	0.43
1:A:172:THR:CG2	1:B:259:THR:HG21	2.48	0.43
1:A:287:THR:CG2	1:A:569:MET:HE2	2.49	0.43
1:B:127:PHE:CE2	1:B:449:TYR:HB2	2.54	0.43
1:B:287:THR:CG2	1:B:569:MET:HE2	2.49	0.43
1:B:540:GLY:O	1:B:541:THR:OG1	2.28	0.43
1:C:108:THR:CG2	1:C:110:TRP:HD1	2.32	0.43
1:D:326:ARG:HD3	1:N:193:TYR:CZ	2.53	0.43
1:D:360:PRO:HD3	1:D:402:THR:HG22	2.01	0.43
1:G:135:ARG:NH2	1:G:523:LEU:O	2.51	0.43
1:H:540:GLY:O	1:H:541:THR:OG1	2.28	0.43
1:I:257:LEU:HD22	1:I:261:ASP:HB3	2.00	0.43
1:J:127:PHE:CE2	1:J:449:TYR:HB2	2.54	0.43
1:J:276:GLN:NE2	1:J:562:ARG:HH12	2.15	0.43
1:J:287:THR:HG22	1:J:569:MET:HE2	2.00	0.43
1:K:287:THR:CG2	1:K:569:MET:HE2	2.49	0.43
1:L:257:LEU:HD22	1:L:261:ASP:HB3	2.00	0.43
1:M:287:THR:CG2	1:M:569:MET:HE2	2.48	0.43
1:M:545:LYS:O	1:M:546:PHE:HB2	2.19	0.43
1:N:127:PHE:CE2	1:N:449:TYR:HB2	2.54	0.43
1:O:108:THR:CG2	1:O:110:TRP:HD1	2.32	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Q:108:THR:CG2	1:Q:110:TRP:HD1	2.32	0.43
1:R:318:SER:HB2	1:S:376:LYS:NZ	2.34	0.43
1:S:127:PHE:CE2	1:S:449:TYR:HB2	2.54	0.43
1:S:421:VAL:HG11	1:U:92:LEU:HD13	2.01	0.43
1:T:287:THR:CG2	1:T:569:MET:HE2	2.49	0.43
1:V:257:LEU:HD22	1:V:261:ASP:HB3	2.00	0.43
1:X:172:THR:CG2	1:f:259:THR:HG21	2.49	0.43
1:X:284:THR:HG21	1:X:331:HIS:HA	2.01	0.43
1:Y:287:THR:CG2	1:Y:569:MET:HE2	2.49	0.43
1:b:284:THR:HG21	1:b:331:HIS:HA	2.01	0.43
1:b:360:PRO:HD3	1:b:402:THR:HG22	2.01	0.43
1:f:108:THR:CG2	1:f:110:TRP:HD1	2.32	0.43
1:g:404:GLN:NE2	1:g:443:ASP:N	2.58	0.43
1:h:108:THR:CG2	1:h:110:TRP:HD1	2.32	0.43
1:h:287:THR:CG2	1:h:569:MET:HE2	2.49	0.43
1:h:388:PRO:C	1:h:390:HIS:H	2.27	0.43
1:i:193:TYR:CZ	1:k:326:ARG:HD3	2.53	0.43
1:i:545:LYS:O	1:i:546:PHE:HB2	2.19	0.43
1:j:388:PRO:C	1:j:390:HIS:H	2.27	0.43
1:l:108:THR:CG2	1:l:110:TRP:HD1	2.32	0.43
1:n:386:ASP:O	1:n:553:HIS:HB3	2.18	0.43
1:p:386:ASP:O	1:p:553:HIS:HB3	2.18	0.43
1:r:127:PHE:CE2	1:r:449:TYR:HB2	2.54	0.43
1:r:284:THR:HG21	1:r:331:HIS:HA	2.01	0.43
1:t:287:THR:CG2	1:t:569:MET:HE2	2.49	0.43
1:v:172:THR:CG2	1:l:259:THR:HG21	2.48	0.43
1:v:287:THR:CG2	1:v:569:MET:HE2	2.49	0.43
1:w:276:GLN:NE2	1:w:562:ARG:HH12	2.15	0.43
1:z:257:LEU:HD22	1:z:261:ASP:HB3	2.00	0.43
1:z:376:LYS:HG2	1:2:317:ARG:O	2.19	0.43
1:1:127:PHE:CE2	1:1:449:TYR:HB2	2.54	0.43
1:4:127:PHE:CE2	1:4:449:TYR:HB2	2.54	0.43
1:4:287:THR:CG2	1:4:569:MET:HE2	2.49	0.43
1:7:287:THR:CG2	1:7:569:MET:HE2	2.49	0.43
1:8:287:THR:CG2	1:8:569:MET:HE2	2.49	0.43
1:A:193:TYR:CZ	1:I:326:ARG:HD3	2.54	0.43
1:E:421:VAL:HG11	1:Q:92:LEU:HD13	2.00	0.43
1:F:92:LEU:HD13	1:Q:421:VAL:HG11	2.01	0.43
1:G:287:THR:CG2	1:G:569:MET:HE2	2.49	0.43
1:G:531:LEU:CD1	1:H:128:GLN:CG	2.92	0.43
1:H:388:PRO:C	1:H:390:HIS:H	2.27	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:127:PHE:CE2	1:K:449:TYR:HB2	2.54	0.43
1:L:149:ILE:O	1:L:259:THR:HG23	2.19	0.43
1:L:233:GLN:NE2	1:L:236:LYS:HB3	2.34	0.43
1:M:108:THR:CG2	1:M:110:TRP:HD1	2.32	0.43
1:M:127:PHE:CE2	1:M:449:TYR:HB2	2.54	0.43
1:N:326:ARG:HD3	1:P:193:TYR:CZ	2.53	0.43
1:N:388:PRO:C	1:N:390:HIS:H	2.27	0.43
1:P:108:THR:CG2	1:P:110:TRP:HD1	2.32	0.43
1:P:287:THR:CG2	1:P:569:MET:HE2	2.49	0.43
1:R:388:PRO:C	1:R:390:HIS:H	2.27	0.43
1:T:545:LYS:O	1:T:546:PHE:HB2	2.19	0.43
1:V:233:GLN:NE2	1:V:236:LYS:HB3	2.34	0.43
1:V:386:ASP:O	1:V:553:HIS:HB3	2.18	0.43
1:W:284:THR:HG21	1:W:331:HIS:HA	2.01	0.43
1:W:287:THR:HG22	1:W:569:MET:HE2	2.00	0.43
1:X:388:PRO:C	1:X:390:HIS:H	2.27	0.43
1:Y:257:LEU:HD22	1:Y:261:ASP:HB3	2.00	0.43
1:Y:360:PRO:HD3	1:Y:402:THR:HG22	2.01	0.43
1:b:108:THR:CG2	1:b:110:TRP:HD1	2.32	0.43
1:c:545:LYS:O	1:c:546:PHE:HB2	2.19	0.43
1:d:108:THR:CG2	1:d:110:TRP:HD1	2.32	0.43
1:d:284:THR:HG21	1:d:331:HIS:HA	2.01	0.43
1:e:545:LYS:O	1:e:546:PHE:HB2	2.19	0.43
1:f:360:PRO:HD3	1:f:402:THR:HG22	2.01	0.43
1:g:92:LEU:HD13	1:h:421:VAL:HG11	2.00	0.43
1:g:108:THR:CG2	1:g:110:TRP:HD1	2.32	0.43
1:g:388:PRO:C	1:g:390:HIS:H	2.27	0.43
1:h:127:PHE:CE2	1:h:449:TYR:HB2	2.54	0.43
1:h:545:LYS:O	1:h:546:PHE:HB2	2.19	0.43
1:i:127:PHE:CE2	1:i:449:TYR:HB2	2.54	0.43
1:i:257:LEU:HD22	1:i:261:ASP:HB3	2.00	0.43
1:i:388:PRO:C	1:i:390:HIS:H	2.27	0.43
1:j:108:THR:CG2	1:j:110:TRP:HD1	2.32	0.43
1:j:287:THR:CG2	1:j:569:MET:HE2	2.49	0.43
1:j:545:LYS:O	1:j:546:PHE:HB2	2.19	0.43
1:l:135:ARG:NH2	1:l:523:LEU:O	2.51	0.43
1:n:108:THR:CG2	1:n:110:TRP:HD1	2.32	0.43
1:n:284:THR:HG21	1:n:331:HIS:HA	2.01	0.43
1:o:287:THR:CG2	1:o:569:MET:HE2	2.48	0.43
1:o:388:PRO:C	1:o:390:HIS:H	2.27	0.43
1:q:284:THR:HG21	1:q:331:HIS:HA	2.01	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:q:388:PRO:C	1:q:390:HIS:H	2.27	0.43
1:r:360:PRO:HD3	1:r:402:THR:HG22	2.01	0.43
1:r:447:ILE:O	1:r:561:GLY:N	2.41	0.43
1:t:540:GLY:O	1:t:541:THR:OG1	2.28	0.43
1:u:257:LEU:HD22	1:u:261:ASP:HB3	2.00	0.43
1:u:545:LYS:O	1:u:546:PHE:HB2	2.19	0.43
1:v:138:THR:HG23	1:v:140:GLU:OE2	2.17	0.43
1:x:421:VAL:HG11	1:y:92:LEU:HD13	2.01	0.43
1:z:233:GLN:NE2	1:z:236:LYS:HB3	2.34	0.43
1:z:404:GLN:NE2	1:z:443:ASP:N	2.58	0.43
1:1:317:ARG:O	1:2:376:LYS:HG2	2.18	0.43
1:2:127:PHE:CE2	1:2:449:TYR:HB2	2.54	0.43
1:2:287:THR:HG22	1:2:569:MET:HE2	2.00	0.43
1:5:388:PRO:C	1:5:390:HIS:H	2.27	0.43
1:6:287:THR:HG22	1:6:569:MET:HE2	2.00	0.43
1:7:257:LEU:HD22	1:7:261:ASP:HB3	2.00	0.43
1:7:360:PRO:HD3	1:7:402:THR:HG22	2.01	0.43
1:B:317:ARG:O	1:J:376:LYS:HG2	2.18	0.43
1:C:92:LEU:HD13	1:M:421:VAL:HG11	2.00	0.43
1:C:388:PRO:C	1:C:390:HIS:H	2.27	0.43
1:D:50:TYR:OH	1:D:129:GLN:NE2	2.52	0.43
1:G:284:THR:HG21	1:G:331:HIS:HA	2.01	0.43
1:G:540:GLY:O	1:G:541:THR:OG1	2.28	0.43
1:H:326:ARG:HD3	1:W:193:TYR:CZ	2.53	0.43
1:I:545:LYS:O	1:I:546:PHE:HB2	2.19	0.43
1:J:149:ILE:O	1:J:259:THR:HG23	2.19	0.43
1:N:257:LEU:HD22	1:N:261:ASP:HB3	2.00	0.43
1:N:545:LYS:O	1:N:546:PHE:HB2	2.19	0.43
1:O:92:LEU:HD13	1:n:421:VAL:HG11	2.01	0.43
1:P:127:PHE:CE2	1:P:449:TYR:HB2	2.54	0.43
1:P:388:PRO:C	1:P:390:HIS:H	2.27	0.43
1:P:545:LYS:O	1:P:546:PHE:HB2	2.19	0.43
1:R:50:TYR:OH	1:R:129:GLN:NE2	2.52	0.43
1:R:233:GLN:NE2	1:R:236:LYS:HB3	2.34	0.43
1:S:360:PRO:HD3	1:S:402:THR:HG22	2.01	0.43
1:T:127:PHE:CE2	1:T:449:TYR:HB2	2.54	0.43
1:T:284:THR:HG21	1:T:331:HIS:HA	2.01	0.43
1:U:127:PHE:CE2	1:U:449:TYR:HB2	2.54	0.43
1:U:284:THR:HG21	1:U:331:HIS:HA	2.01	0.43
1:W:531:LEU:CD1	1:X:128:GLN:CG	2.93	0.43
1:X:233:GLN:NE2	1:X:236:LYS:HB3	2.34	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:X:287:THR:CG2	1:X:569:MET:HE2	2.49	0.43
1:Y:108:THR:CG2	1:Y:110:TRP:HD1	2.32	0.43
1:a:149:ILE:O	1:a:259:THR:HG23	2.19	0.43
1:b:233:GLN:NE2	1:b:236:LYS:HB3	2.34	0.43
1:d:388:PRO:C	1:d:390:HIS:H	2.27	0.43
1:d:421:VAL:HG11	1:l:92:LEU:HD13	2.01	0.43
1:e:259:THR:HG21	1:h:172:THR:CG2	2.49	0.43
1:f:233:GLN:NE2	1:f:236:LYS:HB3	2.34	0.43
1:i:326:ARG:HD3	1:j:193:TYR:CZ	2.53	0.43
1:j:127:PHE:CE2	1:j:449:TYR:HB2	2.54	0.43
1:k:50:TYR:OH	1:k:129:GLN:NE2	2.52	0.43
1:m:284:THR:HG21	1:m:331:HIS:HA	2.01	0.43
1:m:287:THR:HG22	1:m:569:MET:HE2	2.00	0.43
1:m:545:LYS:O	1:m:546:PHE:HB2	2.19	0.43
1:n:388:PRO:C	1:n:390:HIS:H	2.27	0.43
1:o:233:GLN:NE2	1:o:236:LYS:HB3	2.34	0.43
1:p:233:GLN:NE2	1:p:236:LYS:HB3	2.34	0.43
1:q:108:THR:CG2	1:q:110:TRP:HD1	2.32	0.43
1:r:388:PRO:C	1:r:390:HIS:H	2.27	0.43
1:r:421:VAL:HG11	1:s:92:LEU:HD13	2.01	0.43
1:s:284:THR:HG21	1:s:331:HIS:HA	2.01	0.43
1:t:326:ARG:HD3	1:u:193:TYR:CZ	2.53	0.43
1:t:531:LEU:CD1	1:5:128:GLN:CG	2.92	0.43
1:x:108:THR:CG2	1:x:110:TRP:HD1	2.32	0.43
1:z:92:LEU:HD13	1:2:421:VAL:HG11	2.01	0.43
1:z:149:ILE:O	1:z:259:THR:HG23	2.19	0.43
1:z:545:LYS:O	1:z:546:PHE:HB2	2.19	0.43
1:1:388:PRO:C	1:1:390:HIS:H	2.27	0.43
1:2:149:ILE:O	1:2:259:THR:HG23	2.19	0.43
1:3:149:ILE:O	1:3:259:THR:HG23	2.19	0.43
1:4:545:LYS:O	1:4:546:PHE:HB2	2.19	0.43
1:6:284:THR:HG21	1:6:331:HIS:HA	2.01	0.43
1:7:108:THR:CG2	1:7:110:TRP:HD1	2.32	0.43
1:C:149:ILE:O	1:C:259:THR:HG23	2.19	0.42
1:C:287:THR:CG2	1:C:569:MET:HE2	2.49	0.42
1:G:326:ARG:HD3	1:I:193:TYR:CZ	2.53	0.42
1:G:421:VAL:HG11	1:I:92:LEU:HD13	2.00	0.42
1:I:50:TYR:OH	1:I:129:GLN:NE2	2.52	0.42
1:L:545:LYS:O	1:L:546:PHE:HB2	2.19	0.42
1:N:233:GLN:NE2	1:N:236:LYS:HB3	2.34	0.42
1:O:135:ARG:NH2	1:O:523:LEU:O	2.51	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:O:149:ILE:O	1:O:259:THR:HG23	2.19	0.42
1:O:284:THR:HG21	1:O:331:HIS:HA	2.01	0.42
1:Q:127:PHE:CE2	1:Q:449:TYR:HB2	2.54	0.42
1:R:108:THR:CG2	1:R:110:TRP:HD1	2.32	0.42
1:S:276:GLN:NE2	1:S:562:ARG:HH12	2.15	0.42
1:S:388:PRO:C	1:S:390:HIS:H	2.27	0.42
1:T:287:THR:HG22	1:T:569:MET:HE2	2.00	0.42
1:U:447:ILE:O	1:U:561:GLY:N	2.41	0.42
1:V:50:TYR:OH	1:V:129:GLN:NE2	2.52	0.42
1:V:421:VAL:HG11	1:e:92:LEU:HD13	2.00	0.42
1:X:149:ILE:O	1:X:259:THR:HG23	2.19	0.42
1:Y:149:ILE:O	1:Y:259:THR:HG23	2.19	0.42
1:Z:138:THR:HG23	1:Z:140:GLU:OE2	2.17	0.42
1:a:287:THR:CG2	1:a:569:MET:HE2	2.49	0.42
1:a:388:PRO:C	1:a:390:HIS:H	2.27	0.42
1:d:287:THR:CG2	1:d:569:MET:HE2	2.49	0.42
1:g:149:ILE:O	1:g:259:THR:HG23	2.19	0.42
1:g:284:THR:HG21	1:g:331:HIS:HA	2.01	0.42
1:g:287:THR:CG2	1:g:569:MET:HE2	2.49	0.42
1:l:149:ILE:O	1:l:259:THR:HG23	2.19	0.42
1:m:127:PHE:CE2	1:m:449:TYR:HB2	2.54	0.42
1:p:50:TYR:OH	1:p:129:GLN:NE2	2.52	0.42
1:q:50:TYR:OH	1:q:129:GLN:NE2	2.52	0.42
1:q:193:TYR:CZ	1:s:326:ARG:HD3	2.53	0.42
1:q:233:GLN:NE2	1:q:236:LYS:HB3	2.34	0.42
1:s:127:PHE:CE2	1:s:449:TYR:HB2	2.54	0.42
1:s:447:ILE:O	1:s:561:GLY:N	2.41	0.42
1:t:284:THR:HG21	1:t:331:HIS:HA	2.01	0.42
1:u:233:GLN:NE2	1:u:236:LYS:HB3	2.34	0.42
1:w:421:VAL:HG11	1:x:92:LEU:HD13	2.00	0.42
1:x:388:PRO:C	1:x:390:HIS:H	2.27	0.42
1:z:317:ARG:O	1:1:376:LYS:HG2	2.18	0.42
1:5:149:ILE:O	1:5:259:THR:HG23	2.19	0.42
1:A:108:THR:CG2	1:A:110:TRP:HD1	2.32	0.42
1:A:360:PRO:HD3	1:A:402:THR:HG22	2.01	0.42
1:A:447:ILE:O	1:A:561:GLY:N	2.41	0.42
1:B:92:LEU:HD13	1:L:421:VAL:HG11	2.00	0.42
1:B:108:THR:CG2	1:B:110:TRP:HD1	2.32	0.42
1:B:318:SER:HB2	1:J:376:LYS:NZ	2.34	0.42
1:B:388:PRO:C	1:B:390:HIS:H	2.27	0.42
1:B:447:ILE:O	1:B:561:GLY:N	2.41	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:284:THR:HG21	1:C:331:HIS:HA	2.01	0.42
1:C:404:GLN:NE2	1:C:443:ASP:N	2.58	0.42
1:D:284:THR:HG21	1:D:331:HIS:HA	2.01	0.42
1:D:388:PRO:C	1:D:390:HIS:H	2.27	0.42
1:E:284:THR:HG21	1:E:331:HIS:HA	2.01	0.42
1:F:360:PRO:HD3	1:F:402:THR:HG22	2.01	0.42
1:F:388:PRO:C	1:F:390:HIS:H	2.27	0.42
1:G:149:ILE:O	1:G:259:THR:HG23	2.19	0.42
1:H:50:TYR:OH	1:H:129:GLN:NE2	2.52	0.42
1:H:149:ILE:O	1:H:259:THR:HG23	2.19	0.42
1:I:287:THR:CG2	1:I:569:MET:HE2	2.49	0.42
1:J:284:THR:HG21	1:J:331:HIS:HA	2.01	0.42
1:J:421:VAL:HG11	1:L:92:LEU:HD13	2.01	0.42
1:K:92:LEU:HD13	1:8:421:VAL:HG11	2.00	0.42
1:K:326:ARG:HD3	1:a:193:TYR:CZ	2.53	0.42
1:K:360:PRO:HD3	1:K:402:THR:HG22	2.01	0.42
1:L:388:PRO:C	1:L:390:HIS:H	2.27	0.42
1:L:447:ILE:O	1:L:561:GLY:N	2.41	0.42
1:N:137:VAL:HG12	1:N:277:LEU:HD11	2.02	0.42
1:Q:388:PRO:C	1:Q:390:HIS:H	2.27	0.42
1:R:193:TYR:CZ	1:U:326:ARG:HD3	2.53	0.42
1:X:108:THR:CG2	1:X:110:TRP:HD1	2.32	0.42
1:X:193:TYR:CZ	1:e:326:ARG:HD3	2.54	0.42
1:Y:137:VAL:HG12	1:Y:277:LEU:HD11	2.01	0.42
1:Y:233:GLN:NE2	1:Y:236:LYS:HB3	2.34	0.42
1:a:233:GLN:NE2	1:a:236:LYS:HB3	2.34	0.42
1:c:108:THR:CG2	1:c:110:TRP:HD1	2.32	0.42
1:c:326:ARG:HD3	1:o:193:TYR:CZ	2.54	0.42
1:d:127:PHE:CE2	1:d:449:TYR:HB2	2.54	0.42
1:e:108:THR:CG2	1:e:110:TRP:HD1	2.32	0.42
1:f:50:TYR:OH	1:f:129:GLN:NE2	2.52	0.42
1:i:137:VAL:HG12	1:i:277:LEU:HD11	2.01	0.42
1:i:233:GLN:NE2	1:i:236:LYS:HB3	2.34	0.42
1:j:257:LEU:HD22	1:j:261:ASP:HB3	2.00	0.42
1:k:388:PRO:C	1:k:390:HIS:H	2.27	0.42
1:m:233:GLN:NE2	1:m:236:LYS:HB3	2.34	0.42
1:m:540:GLY:O	1:m:541:THR:OG1	2.28	0.42
1:n:287:THR:CG2	1:n:569:MET:HE2	2.49	0.42
1:o:149:ILE:O	1:o:259:THR:HG23	2.19	0.42
1:r:276:GLN:NE2	1:r:562:ARG:HH12	2.15	0.42
1:t:149:ILE:O	1:t:259:THR:HG23	2.19	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:t:421:VAL:HG11	1:u:92:LEU:HD13	2.00	0.42
1:u:50:TYR:OH	1:u:129:GLN:NE2	2.52	0.42
1:v:108:THR:CG2	1:v:110:TRP:HD1	2.32	0.42
1:x:127:PHE:CE2	1:x:449:TYR:HB2	2.54	0.42
1:y:127:PHE:CE2	1:y:449:TYR:HB2	2.54	0.42
1:y:149:ILE:O	1:y:259:THR:HG23	2.19	0.42
1:y:360:PRO:HD3	1:y:402:THR:HG22	2.01	0.42
1:z:388:PRO:C	1:z:390:HIS:H	2.27	0.42
1:z:447:ILE:O	1:z:561:GLY:N	2.41	0.42
1:1:108:THR:CG2	1:1:110:TRP:HD1	2.32	0.42
1:3:193:TYR:CZ	1:4:326:ARG:HD3	2.53	0.42
1:3:233:GLN:NE2	1:3:236:LYS:HB3	2.34	0.42
1:3:287:THR:CG2	1:3:569:MET:HE2	2.49	0.42
1:4:50:TYR:OH	1:4:129:GLN:NE2	2.52	0.42
1:5:50:TYR:OH	1:5:129:GLN:NE2	2.52	0.42
1:A:149:ILE:O	1:A:259:THR:HG23	2.19	0.42
1:B:233:GLN:NE2	1:B:236:LYS:HB3	2.34	0.42
1:C:137:VAL:HG12	1:C:277:LEU:HD11	2.01	0.42
1:E:127:PHE:CE2	1:E:449:TYR:HB2	2.54	0.42
1:E:287:THR:CG2	1:E:569:MET:HE2	2.49	0.42
1:F:127:PHE:CE2	1:F:449:TYR:HB2	2.54	0.42
1:F:149:ILE:O	1:F:259:THR:HG23	2.19	0.42
1:I:233:GLN:NE2	1:I:236:LYS:HB3	2.34	0.42
1:J:356:PHE:CG	1:J:405:THR:HA	2.55	0.42
1:K:50:TYR:OH	1:K:129:GLN:NE2	2.52	0.42
1:K:149:ILE:O	1:K:259:THR:HG23	2.19	0.42
1:K:545:LYS:O	1:K:546:PHE:HB2	2.19	0.42
1:M:172:THR:CG2	1:c:259:THR:HG21	2.49	0.42
1:O:545:LYS:O	1:O:546:PHE:HB2	2.19	0.42
1:P:137:VAL:HG12	1:P:277:LEU:HD11	2.01	0.42
1:P:233:GLN:NE2	1:P:236:LYS:HB3	2.34	0.42
1:P:257:LEU:HD22	1:P:261:ASP:HB3	2.00	0.42
1:R:149:ILE:O	1:R:259:THR:HG23	2.19	0.42
1:R:356:PHE:CG	1:R:405:THR:HA	2.55	0.42
1:R:447:ILE:O	1:R:561:GLY:N	2.41	0.42
1:S:108:THR:CG2	1:S:110:TRP:HD1	2.32	0.42
1:S:137:VAL:HG12	1:S:277:LEU:HD11	2.02	0.42
1:S:233:GLN:NE2	1:S:236:LYS:HB3	2.34	0.42
1:T:149:ILE:O	1:T:259:THR:HG23	2.19	0.42
1:T:233:GLN:NE2	1:T:236:LYS:HB3	2.34	0.42
1:T:276:GLN:NE2	1:T:562:ARG:HH12	2.15	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:V:287:THR:CG2	1:V:569:MET:HE2	2.49	0.42
1:X:376:LYS:HG2	1:e:317:ARG:O	2.20	0.42
1:X:448:GLN:HB3	1:X:558:PHE:HE1	1.85	0.42
1:Y:356:PHE:CG	1:Y:405:THR:HA	2.55	0.42
1:Z:233:GLN:NE2	1:Z:236:LYS:HB3	2.34	0.42
1:Z:421:VAL:HG11	1:4:92:LEU:HD13	2.00	0.42
1:Z:545:LYS:O	1:Z:546:PHE:HB2	2.19	0.42
1:a:137:VAL:HG12	1:a:277:LEU:HD11	2.01	0.42
1:b:50:TYR:OH	1:b:129:GLN:NE2	2.52	0.42
1:b:259:THR:HG21	1:o:172:THR:CG2	2.49	0.42
1:c:92:LEU:HD13	1:p:421:VAL:HG11	2.00	0.42
1:c:317:ARG:O	1:o:376:LYS:HG2	2.20	0.42
1:d:545:LYS:O	1:d:546:PHE:HB2	2.19	0.42
1:f:257:LEU:HD22	1:f:261:ASP:HB3	2.00	0.42
1:f:317:ARG:O	1:h:376:LYS:HG2	2.19	0.42
1:g:137:VAL:HG12	1:g:277:LEU:HD11	2.02	0.42
1:j:137:VAL:HG12	1:j:277:LEU:HD11	2.01	0.42
1:k:127:PHE:CE2	1:k:449:TYR:HB2	2.54	0.42
1:k:284:THR:HG21	1:k:331:HIS:HA	2.01	0.42
1:k:448:GLN:HB3	1:k:558:PHE:HE1	1.85	0.42
1:l:284:THR:HG21	1:l:331:HIS:HA	2.01	0.42
1:l:360:PRO:HD3	1:l:402:THR:HG22	2.01	0.42
1:l:545:LYS:O	1:l:546:PHE:HB2	2.19	0.42
1:n:127:PHE:CE2	1:n:449:TYR:HB2	2.54	0.42
1:n:137:VAL:HG12	1:n:277:LEU:HD11	2.01	0.42
1:o:108:THR:CG2	1:o:110:TRP:HD1	2.32	0.42
1:o:448:GLN:HB3	1:o:558:PHE:HE1	1.85	0.42
1:q:149:ILE:O	1:q:259:THR:HG23	2.19	0.42
1:q:356:PHE:CG	1:q:405:THR:HA	2.55	0.42
1:r:108:THR:CG2	1:r:110:TRP:HD1	2.32	0.42
1:r:137:VAL:HG12	1:r:277:LEU:HD11	2.02	0.42
1:r:233:GLN:NE2	1:r:236:LYS:HB3	2.34	0.42
1:t:545:LYS:O	1:t:546:PHE:HB2	2.19	0.42
1:u:287:THR:CG2	1:u:569:MET:HE2	2.49	0.42
1:v:149:ILE:O	1:v:259:THR:HG23	2.19	0.42
1:v:360:PRO:HD3	1:v:402:THR:HG22	2.01	0.42
1:w:127:PHE:CE2	1:w:449:TYR:HB2	2.54	0.42
1:w:284:THR:HG21	1:w:331:HIS:HA	2.01	0.42
1:y:356:PHE:CG	1:y:405:THR:HA	2.55	0.42
1:2:108:THR:CG2	1:2:110:TRP:HD1	2.32	0.42
1:2:356:PHE:CG	1:2:405:THR:HA	2.55	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:3:127:PHE:CE2	1:3:449:TYR:HB2	2.54	0.42
1:3:388:PRO:C	1:3:390:HIS:H	2.27	0.42
1:4:149:ILE:O	1:4:259:THR:HG23	2.19	0.42
1:5:326:ARG:HD3	1:6:193:TYR:CZ	2.53	0.42
1:7:137:VAL:HG12	1:7:277:LEU:HD11	2.01	0.42
1:7:149:ILE:O	1:7:259:THR:HG23	2.19	0.42
1:7:233:GLN:NE2	1:7:236:LYS:HB3	2.34	0.42
1:8:138:THR:HG23	1:8:140:GLU:OE2	2.17	0.42
1:A:233:GLN:NE2	1:A:236:LYS:HB3	2.34	0.42
1:A:287:THR:HG22	1:A:569:MET:HE2	2.00	0.42
1:A:388:PRO:C	1:A:390:HIS:H	2.27	0.42
1:C:233:GLN:NE2	1:C:236:LYS:HB3	2.34	0.42
1:D:127:PHE:CE2	1:D:449:TYR:HB2	2.54	0.42
1:D:233:GLN:NE2	1:D:236:LYS:HB3	2.34	0.42
1:D:448:GLN:HB3	1:D:558:PHE:HE1	1.85	0.42
1:D:545:LYS:O	1:D:546:PHE:HB2	2.19	0.42
1:E:149:ILE:O	1:E:259:THR:HG23	2.19	0.42
1:F:356:PHE:CG	1:F:405:THR:HA	2.55	0.42
1:G:50:TYR:OH	1:G:129:GLN:NE2	2.52	0.42
1:G:545:LYS:O	1:G:546:PHE:HB2	2.19	0.42
1:I:149:ILE:O	1:I:259:THR:HG23	2.19	0.42
1:L:356:PHE:CG	1:L:405:THR:HA	2.55	0.42
1:L:404:GLN:NE2	1:L:443:ASP:N	2.58	0.42
1:L:448:GLN:HB3	1:L:558:PHE:HE1	1.85	0.42
1:M:50:TYR:OH	1:M:129:GLN:NE2	2.52	0.42
1:O:360:PRO:HD3	1:O:402:THR:HG22	2.01	0.42
1:P:356:PHE:CG	1:P:405:THR:HA	2.55	0.42
1:U:233:GLN:NE2	1:U:236:LYS:HB3	2.34	0.42
1:U:360:PRO:HD3	1:U:402:THR:HG22	2.01	0.42
1:X:127:PHE:CE2	1:X:449:TYR:HB2	2.54	0.42
1:Y:127:PHE:CE2	1:Y:449:TYR:HB2	2.54	0.42
1:Z:257:LEU:HD22	1:Z:261:ASP:HB3	2.00	0.42
1:Z:287:THR:HG22	1:Z:569:MET:HE2	2.00	0.42
1:Z:388:PRO:C	1:Z:390:HIS:H	2.27	0.42
1:a:108:THR:CG2	1:a:110:TRP:HD1	2.32	0.42
1:a:127:PHE:CE2	1:a:449:TYR:HB2	2.54	0.42
1:b:257:LEU:HD22	1:b:261:ASP:HB3	2.00	0.42
1:d:137:VAL:HG12	1:d:277:LEU:HD11	2.02	0.42
1:d:149:ILE:O	1:d:259:THR:HG23	2.19	0.42
1:d:233:GLN:NE2	1:d:236:LYS:HB3	2.34	0.42
1:e:388:PRO:C	1:e:390:HIS:H	2.27	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:g:233:GLN:NE2	1:g:236:LYS:HB3	2.34	0.42
1:h:50:TYR:OH	1:h:129:GLN:NE2	2.52	0.42
1:i:108:THR:CG2	1:i:110:TRP:HD1	2.32	0.42
1:i:276:GLN:NE2	1:i:562:ARG:HH12	2.15	0.42
1:j:356:PHE:CG	1:j:405:THR:HA	2.55	0.42
1:m:149:ILE:O	1:m:259:THR:HG23	2.19	0.42
1:n:149:ILE:O	1:n:259:THR:HG23	2.19	0.42
1:n:233:GLN:NE2	1:n:236:LYS:HB3	2.34	0.42
1:p:287:THR:CG2	1:p:569:MET:HE2	2.49	0.42
1:q:404:GLN:NE2	1:q:443:ASP:N	2.58	0.42
1:s:360:PRO:HD3	1:s:402:THR:HG22	2.01	0.42
1:t:50:TYR:OH	1:t:129:GLN:NE2	2.52	0.42
1:u:149:ILE:O	1:u:259:THR:HG23	2.19	0.42
1:v:233:GLN:NE2	1:v:236:LYS:HB3	2.34	0.42
1:w:149:ILE:O	1:w:259:THR:HG23	2.19	0.42
1:w:287:THR:CG2	1:w:569:MET:HE2	2.49	0.42
1:y:108:THR:CG2	1:y:110:TRP:HD1	2.32	0.42
1:y:233:GLN:NE2	1:y:236:LYS:HB3	2.34	0.42
1:y:388:PRO:C	1:y:390:HIS:H	2.27	0.42
1:z:448:GLN:HB3	1:z:558:PHE:HE1	1.85	0.42
1:1:326:ARG:HD3	1:2:193:TYR:CZ	2.55	0.42
1:2:284:THR:HG21	1:2:331:HIS:HA	2.01	0.42
1:4:360:PRO:HD3	1:4:402:THR:HG22	2.01	0.42
1:5:404:GLN:NE2	1:5:443:ASP:H	2.07	0.42
1:6:356:PHE:CG	1:6:405:THR:HA	2.55	0.42
1:7:127:PHE:CE2	1:7:449:TYR:HB2	2.54	0.42
1:7:356:PHE:CG	1:7:405:THR:HA	2.55	0.42
1:8:233:GLN:NE2	1:8:236:LYS:HB3	2.34	0.42
1:8:257:LEU:HD22	1:8:261:ASP:HB3	2.00	0.42
1:8:545:LYS:O	1:8:546:PHE:HB2	2.19	0.42
1:D:421:VAL:HG11	1:N:92:LEU:HD13	2.01	0.42
1:F:108:THR:CG2	1:F:110:TRP:HD1	2.32	0.42
1:F:233:GLN:NE2	1:F:236:LYS:HB3	2.34	0.42
1:G:356:PHE:CG	1:G:405:THR:HA	2.55	0.42
1:I:137:VAL:HG12	1:I:277:LEU:HD11	2.02	0.42
1:J:108:THR:CG2	1:J:110:TRP:HD1	2.32	0.42
1:J:326:ARG:HD3	1:L:193:TYR:CZ	2.53	0.42
1:K:257:LEU:HD22	1:K:261:ASP:HB3	2.00	0.42
1:M:92:LEU:HD13	1:b:421:VAL:HG11	2.02	0.42
1:M:376:LYS:HG2	1:b:317:ARG:O	2.20	0.42
1:R:404:GLN:NE2	1:R:443:ASP:N	2.58	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:T:108:THR:CG2	1:T:110:TRP:HD1	2.32	0.42
1:V:356:PHE:CG	1:V:405:THR:HA	2.55	0.42
1:W:257:LEU:HD22	1:W:261:ASP:HB3	2.00	0.42
1:W:356:PHE:CG	1:W:405:THR:HA	2.55	0.42
1:Z:404:GLN:NE2	1:Z:443:ASP:N	2.58	0.42
1:c:388:PRO:C	1:c:390:HIS:H	2.27	0.42
1:c:421:VAL:HG11	1:o:92:LEU:HD13	2.02	0.42
1:d:128:GLN:CG	1:n:531:LEU:CD1	2.92	0.42
1:j:233:GLN:NE2	1:j:236:LYS:HB3	2.34	0.42
1:k:233:GLN:NE2	1:k:236:LYS:HB3	2.34	0.42
1:k:545:LYS:O	1:k:546:PHE:HB2	2.19	0.42
1:m:276:GLN:NE2	1:m:562:ARG:HH12	2.15	0.42
1:n:545:LYS:O	1:n:546:PHE:HB2	2.19	0.42
1:o:127:PHE:CE2	1:o:449:TYR:HB2	2.54	0.42
1:o:137:VAL:HG12	1:o:277:LEU:HD11	2.01	0.42
1:s:233:GLN:NE2	1:s:236:LYS:HB3	2.34	0.42
1:t:127:PHE:CE2	1:t:449:TYR:HB2	2.54	0.42
1:t:356:PHE:CG	1:t:405:THR:HA	2.55	0.42
1:v:287:THR:HG22	1:v:569:MET:HE2	2.00	0.42
1:w:108:THR:CG2	1:w:110:TRP:HD1	2.32	0.42
1:z:314:TRP:CZ2	1:1:352:PRO:HG3	2.54	0.42
1:z:356:PHE:CG	1:z:405:THR:HA	2.55	0.42
1:1:233:GLN:NE2	1:1:236:LYS:HB3	2.34	0.42
1:2:545:LYS:O	1:2:546:PHE:HB2	2.19	0.42
1:3:108:THR:CG2	1:3:110:TRP:HD1	2.32	0.42
1:3:137:VAL:HG12	1:3:277:LEU:HD11	2.02	0.42
1:3:448:GLN:HB3	1:3:558:PHE:HE1	1.85	0.42
1:4:108:THR:CG2	1:4:110:TRP:HD1	2.32	0.42
1:4:233:GLN:NE2	1:4:236:LYS:HB3	2.34	0.42
1:4:257:LEU:HD22	1:4:261:ASP:HB3	2.00	0.42
1:6:108:THR:CG2	1:6:110:TRP:HD1	2.32	0.42
1:6:257:LEU:HD22	1:6:261:ASP:HB3	2.00	0.42
1:C:356:PHE:CG	1:C:405:THR:HA	2.55	0.42
1:D:356:PHE:CG	1:D:405:THR:HA	2.55	0.42
1:E:108:THR:CG2	1:E:110:TRP:HD1	2.32	0.42
1:F:448:GLN:HB3	1:F:558:PHE:HE1	1.85	0.42
1:G:127:PHE:CE2	1:G:449:TYR:HB2	2.54	0.42
1:G:233:GLN:NE2	1:G:236:LYS:HB3	2.34	0.42
1:G:448:GLN:HB3	1:G:558:PHE:HE1	1.85	0.42
1:H:404:GLN:NE2	1:H:443:ASP:H	2.07	0.42
1:J:388:PRO:C	1:J:390:HIS:H	2.27	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:108:THR:CG2	1:K:110:TRP:HD1	2.32	0.42
1:K:356:PHE:CG	1:K:405:THR:HA	2.55	0.42
1:M:386:ASP:O	1:M:553:HIS:HB3	2.18	0.42
1:N:276:GLN:NE2	1:N:562:ARG:HH12	2.15	0.42
1:R:137:VAL:HG12	1:R:277:LEU:HD11	2.02	0.42
1:R:257:LEU:HD22	1:R:261:ASP:HB3	2.00	0.42
1:S:149:ILE:O	1:S:259:THR:HG23	2.19	0.42
1:T:388:PRO:C	1:T:390:HIS:H	2.27	0.42
1:U:287:THR:CG2	1:U:569:MET:HE2	2.49	0.42
1:V:388:PRO:C	1:V:390:HIS:H	2.27	0.42
1:W:108:THR:CG2	1:W:110:TRP:HD1	2.32	0.42
1:W:149:ILE:O	1:W:259:THR:HG23	2.19	0.42
1:X:356:PHE:CG	1:X:405:THR:HA	2.55	0.42
1:a:131:THR:HA	1:a:277:LEU:HD23	2.02	0.42
1:a:448:GLN:HB3	1:a:558:PHE:HE1	1.85	0.42
1:b:287:THR:CG2	1:b:569:MET:HE2	2.49	0.42
1:b:356:PHE:CG	1:b:405:THR:HA	2.55	0.42
1:d:531:LEU:CD1	1:n:128:GLN:CG	2.92	0.42
1:f:149:ILE:O	1:f:259:THR:HG23	2.19	0.42
1:f:287:THR:CG2	1:f:569:MET:HE2	2.49	0.42
1:f:421:VAL:HG11	1:h:92:LEU:HD13	2.02	0.42
1:i:92:LEU:HD13	1:k:421:VAL:HG11	2.01	0.42
1:m:108:THR:CG2	1:m:110:TRP:HD1	2.32	0.42
1:m:388:PRO:C	1:m:390:HIS:H	2.27	0.42
1:n:356:PHE:CG	1:n:405:THR:HA	2.55	0.42
1:p:137:VAL:HG12	1:p:277:LEU:HD11	2.02	0.42
1:p:356:PHE:CG	1:p:405:THR:HA	2.55	0.42
1:q:137:VAL:HG12	1:q:277:LEU:HD11	2.01	0.42
1:t:448:GLN:HB3	1:t:558:PHE:HE1	1.85	0.42
1:u:137:VAL:HG12	1:u:277:LEU:HD11	2.02	0.42
1:u:356:PHE:CG	1:u:405:THR:HA	2.55	0.42
1:v:356:PHE:CG	1:v:405:THR:HA	2.55	0.42
1:v:388:PRO:C	1:v:390:HIS:H	2.27	0.42
1:v:447:ILE:O	1:v:561:GLY:N	2.41	0.42
1:w:233:GLN:NE2	1:w:236:LYS:HB3	2.34	0.42
1:w:388:PRO:C	1:w:390:HIS:H	2.27	0.42
1:y:448:GLN:HB3	1:y:558:PHE:HE1	1.85	0.42
1:z:318:SER:HB2	1:1:376:LYS:NZ	2.34	0.42
1:1:131:THR:HA	1:1:277:LEU:HD23	2.02	0.42
1:1:149:ILE:O	1:1:259:THR:HG23	2.19	0.42
1:2:388:PRO:C	1:2:390:HIS:H	2.27	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:2:448:GLN:HB3	1:2:558:PHE:HE1	1.85	0.42
1:4:356:PHE:CG	1:4:405:THR:HA	2.55	0.42
1:8:50:TYR:OH	1:8:129:GLN:NE2	2.52	0.42
1:8:287:THR:HG22	1:8:569:MET:HE2	2.00	0.42
1:8:388:PRO:C	1:8:390:HIS:H	2.27	0.42
1:8:404:GLN:NE2	1:8:443:ASP:H	2.07	0.42
1:A:356:PHE:CG	1:A:405:THR:HA	2.55	0.42
1:A:421:VAL:HG11	1:G:92:LEU:HD13	2.01	0.42
1:D:257:LEU:HD22	1:D:261:ASP:HB3	2.00	0.42
1:E:233:GLN:NE2	1:E:236:LYS:HB3	2.34	0.42
1:E:376:LYS:HZ1	1:F:318:SER:HB2	1.85	0.42
1:F:137:VAL:HG12	1:F:277:LEU:HD11	2.01	0.42
1:G:109:PRO:HA	1:G:209:GLN:NE2	2.34	0.42
1:G:137:VAL:HG12	1:G:277:LEU:HD11	2.01	0.42
1:I:356:PHE:CG	1:I:405:THR:HA	2.55	0.42
1:J:545:LYS:O	1:J:546:PHE:HB2	2.19	0.42
1:K:233:GLN:NE2	1:K:236:LYS:HB3	2.34	0.42
1:L:50:TYR:OH	1:L:129:GLN:NE2	2.52	0.42
1:L:127:PHE:CE2	1:L:449:TYR:HB2	2.54	0.42
1:N:108:THR:CG2	1:N:110:TRP:HD1	2.32	0.42
1:N:131:THR:HA	1:N:277:LEU:HD23	2.02	0.42
1:O:137:VAL:HG12	1:O:277:LEU:HD11	2.02	0.42
1:O:448:GLN:HB3	1:O:558:PHE:HE1	1.85	0.42
1:T:131:THR:HA	1:T:277:LEU:HD23	2.02	0.42
1:W:421:VAL:HG11	1:Y:92:LEU:HD13	2.01	0.42
1:X:137:VAL:HG12	1:X:277:LEU:HD11	2.02	0.42
1:X:545:LYS:O	1:X:546:PHE:HB2	2.19	0.42
1:Y:131:THR:HA	1:Y:277:LEU:HD23	2.02	0.42
1:Z:50:TYR:OH	1:Z:129:GLN:NE2	2.52	0.42
1:Z:149:ILE:O	1:Z:259:THR:HG23	2.19	0.42
1:d:356:PHE:CG	1:d:405:THR:HA	2.55	0.42
1:f:356:PHE:CG	1:f:405:THR:HA	2.55	0.42
1:g:356:PHE:CG	1:g:405:THR:HA	2.55	0.42
1:h:386:ASP:O	1:h:553:HIS:HB3	2.18	0.42
1:i:131:THR:HA	1:i:277:LEU:HD23	2.02	0.42
1:k:257:LEU:HD22	1:k:261:ASP:HB3	2.00	0.42
1:k:356:PHE:CG	1:k:405:THR:HA	2.55	0.42
1:l:137:VAL:HG12	1:l:277:LEU:HD11	2.02	0.42
1:l:388:PRO:C	1:l:390:HIS:H	2.27	0.42
1:m:131:THR:HA	1:m:277:LEU:HD23	2.02	0.42
1:n:40:GLY:HA3	1:n:147:ASP:OD2	2.20	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:o:356:PHE:CG	1:o:405:THR:HA	2.55	0.42
1:p:388:PRO:C	1:p:390:HIS:H	2.27	0.42
1:q:257:LEU:HD22	1:q:261:ASP:HB3	2.00	0.42
1:r:149:ILE:O	1:r:259:THR:HG23	2.19	0.42
1:t:40:GLY:HA3	1:t:147:ASP:OD2	2.20	0.42
1:w:356:PHE:CG	1:w:405:THR:HA	2.55	0.42
1:z:40:GLY:HA3	1:z:147:ASP:OD2	2.20	0.42
1:z:127:PHE:CE2	1:z:449:TYR:HB2	2.54	0.42
1:1:356:PHE:CG	1:1:405:THR:HA	2.55	0.42
1:4:137:VAL:HG12	1:4:277:LEU:HD11	2.02	0.42
1:5:233:GLN:NE2	1:5:236:LYS:HB3	2.34	0.42
1:6:149:ILE:O	1:6:259:THR:HG23	2.19	0.42
1:6:360:PRO:HD3	1:6:402:THR:HG22	2.01	0.42
1:6:421:VAL:HG11	1:7:92:LEU:HD13	2.01	0.42
1:7:40:GLY:HA3	1:7:147:ASP:OD2	2.20	0.42
1:7:131:THR:HA	1:7:277:LEU:HD23	2.02	0.42
1:8:284:THR:HG21	1:8:331:HIS:HA	2.01	0.42
1:A:40:GLY:HA3	1:A:147:ASP:OD2	2.20	0.42
1:B:149:ILE:O	1:B:259:THR:HG23	2.19	0.42
1:B:326:ARG:HD3	1:J:193:TYR:CZ	2.55	0.42
1:B:356:PHE:CG	1:B:405:THR:HA	2.55	0.42
1:C:531:LEU:CD1	1:L:128:GLN:CG	2.93	0.42
1:E:137:VAL:HG12	1:E:277:LEU:HD11	2.01	0.42
1:E:356:PHE:CG	1:E:405:THR:HA	2.55	0.42
1:E:388:PRO:C	1:E:390:HIS:H	2.27	0.42
1:G:40:GLY:HA3	1:G:147:ASP:OD2	2.20	0.42
1:G:131:THR:HA	1:G:277:LEU:HD23	2.02	0.42
1:H:233:GLN:NE2	1:H:236:LYS:HB3	2.34	0.42
1:I:388:PRO:C	1:I:390:HIS:H	2.27	0.42
1:J:448:GLN:HB3	1:J:558:PHE:HE1	1.85	0.42
1:L:40:GLY:HA3	1:L:147:ASP:OD2	2.20	0.42
1:N:149:ILE:O	1:N:259:THR:HG23	2.19	0.42
1:N:259:THR:HG21	1:m:172:THR:CG2	2.50	0.42
1:O:233:GLN:NE2	1:O:236:LYS:HB3	2.34	0.42
1:P:448:GLN:HB3	1:P:558:PHE:HE1	1.85	0.42
1:R:40:GLY:HA3	1:R:147:ASP:OD2	2.20	0.42
1:R:326:ARG:HD3	1:S:193:TYR:CZ	2.55	0.42
1:R:545:LYS:O	1:R:546:PHE:HB2	2.19	0.42
1:T:40:GLY:HA3	1:T:147:ASP:OD2	2.20	0.42
1:T:448:GLN:HB3	1:T:558:PHE:HE1	1.85	0.42
1:V:108:THR:CG2	1:V:110:TRP:HD1	2.32	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:V:137:VAL:HG12	1:V:277:LEU:HD11	2.02	0.42
1:W:233:GLN:NE2	1:W:236:LYS:HB3	2.34	0.42
1:W:360:PRO:HD3	1:W:402:THR:HG22	2.01	0.42
1:X:92:LEU:HD13	1:e:421:VAL:HG11	2.02	0.42
1:Y:388:PRO:C	1:Y:390:HIS:H	2.27	0.42
1:Z:108:THR:CG2	1:Z:110:TRP:HD1	2.32	0.42
1:b:149:ILE:O	1:b:259:THR:HG23	2.19	0.42
1:c:137:VAL:HG12	1:c:277:LEU:HD11	2.01	0.42
1:d:40:GLY:HA3	1:d:147:ASP:OD2	2.20	0.42
1:e:137:VAL:HG12	1:e:277:LEU:HD11	2.01	0.42
1:e:233:GLN:NE2	1:e:236:LYS:HB3	2.34	0.42
1:e:356:PHE:CG	1:e:405:THR:HA	2.55	0.42
1:h:131:THR:HA	1:h:277:LEU:HD23	2.02	0.42
1:i:149:ILE:O	1:i:259:THR:HG23	2.19	0.42
1:j:448:GLN:HB3	1:j:558:PHE:HE1	1.85	0.42
1:k:137:VAL:HG12	1:k:277:LEU:HD11	2.02	0.42
1:l:233:GLN:NE2	1:l:236:LYS:HB3	2.34	0.42
1:l:448:GLN:HB3	1:l:558:PHE:HE1	1.85	0.42
1:n:276:GLN:NE2	1:n:562:ARG:HH12	2.15	0.42
1:o:50:TYR:OH	1:o:129:GLN:NE2	2.52	0.42
1:o:257:LEU:HD22	1:o:261:ASP:HB3	2.00	0.42
1:p:108:THR:CG2	1:p:110:TRP:HD1	2.32	0.42
1:q:40:GLY:HA3	1:q:147:ASP:OD2	2.20	0.42
1:q:447:ILE:O	1:q:561:GLY:N	2.41	0.42
1:s:287:THR:CG2	1:s:569:MET:HE2	2.49	0.42
1:t:92:LEU:HD13	1:v:421:VAL:HG11	2.01	0.42
1:t:131:THR:HA	1:t:277:LEU:HD23	2.02	0.42
1:t:233:GLN:NE2	1:t:236:LYS:HB3	2.34	0.42
1:u:259:THR:HG21	1:2:172:THR:CG2	2.50	0.42
1:v:40:GLY:HA3	1:v:147:ASP:OD2	2.20	0.42
1:w:137:VAL:HG12	1:w:277:LEU:HD11	2.01	0.42
1:y:137:VAL:HG12	1:y:277:LEU:HD11	2.02	0.42
1:1:447:ILE:O	1:1:561:GLY:N	2.41	0.42
1:3:131:THR:HA	1:3:277:LEU:HD23	2.02	0.42
1:5:421:VAL:HG11	1:6:92:LEU:HD13	2.00	0.42
1:7:315:GLY:N	1:7:417:LEU:HD23	2.33	0.42
1:7:388:PRO:C	1:7:390:HIS:H	2.27	0.42
1:8:149:ILE:O	1:8:259:THR:HG23	2.19	0.42
1:B:131:THR:HA	1:B:277:LEU:HD23	2.02	0.42
1:C:448:GLN:HB3	1:C:558:PHE:HE1	1.85	0.42
1:D:137:VAL:HG12	1:D:277:LEU:HD11	2.02	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:108:THR:CG2	1:G:110:TRP:HD1	2.32	0.42
1:H:108:THR:CG2	1:H:110:TRP:HD1	2.32	0.42
1:H:421:VAL:HG11	1:W:92:LEU:HD13	2.00	0.42
1:I:259:THR:HG21	1:J:172:THR:CG2	2.50	0.42
1:K:137:VAL:HG12	1:K:277:LEU:HD11	2.02	0.42
1:K:172:THR:CG2	1:7:259:THR:HG21	2.50	0.42
1:L:284:THR:HG21	1:L:331:HIS:HA	2.01	0.42
1:M:131:THR:HA	1:M:277:LEU:HD23	2.02	0.42
1:M:149:ILE:O	1:M:259:THR:HG23	2.19	0.42
1:O:356:PHE:CG	1:O:405:THR:HA	2.55	0.42
1:P:149:ILE:O	1:P:259:THR:HG23	2.19	0.42
1:T:172:THR:CG2	1:i:259:THR:HG21	2.50	0.42
1:T:360:PRO:HD3	1:T:402:THR:HG22	2.01	0.42
1:U:108:THR:CG2	1:U:110:TRP:HD1	2.32	0.42
1:V:284:THR:HG21	1:V:331:HIS:HA	2.01	0.42
1:X:40:GLY:HA3	1:X:147:ASP:OD2	2.20	0.42
1:X:50:TYR:OH	1:X:129:GLN:NE2	2.52	0.42
1:X:131:THR:HA	1:X:277:LEU:HD23	2.02	0.42
1:X:257:LEU:HD22	1:X:261:ASP:HB3	2.00	0.42
1:Z:40:GLY:HA3	1:Z:147:ASP:OD2	2.20	0.42
1:Z:448:GLN:HB3	1:Z:558:PHE:HE1	1.85	0.42
1:a:356:PHE:CG	1:a:405:THR:HA	2.55	0.42
1:b:448:GLN:HB3	1:b:558:PHE:HE1	1.85	0.42
1:c:149:ILE:O	1:c:259:THR:HG23	2.19	0.42
1:c:233:GLN:NE2	1:c:236:LYS:HB3	2.34	0.42
1:c:356:PHE:CG	1:c:405:THR:HA	2.55	0.42
1:e:149:ILE:O	1:e:259:THR:HG23	2.19	0.42
1:f:314:TRP:CZ2	1:h:352:PRO:HG3	2.55	0.42
1:f:448:GLN:HB3	1:f:558:PHE:HE1	1.85	0.42
1:g:448:GLN:HB3	1:g:558:PHE:HE1	1.85	0.42
1:i:40:GLY:HA3	1:i:147:ASP:OD2	2.20	0.42
1:m:40:GLY:HA3	1:m:147:ASP:OD2	2.20	0.42
1:m:360:PRO:HD3	1:m:402:THR:HG22	2.01	0.42
1:m:448:GLN:HB3	1:m:558:PHE:HE1	1.85	0.42
1:o:40:GLY:HA3	1:o:147:ASP:OD2	2.20	0.42
1:q:318:SER:HB2	1:r:376:LYS:NZ	2.34	0.42
1:q:326:ARG:HD3	1:r:193:TYR:CZ	2.55	0.42
1:s:448:GLN:HB3	1:s:558:PHE:HE1	1.85	0.42
1:t:109:PRO:HA	1:t:209:GLN:NE2	2.34	0.42
1:t:137:VAL:HG12	1:t:277:LEU:HD11	2.02	0.42
1:u:108:THR:CG2	1:u:110:TRP:HD1	2.32	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:u:388:PRO:C	1:u:390:HIS:H	2.27	0.42
1:x:284:THR:HG21	1:x:331:HIS:HA	2.01	0.42
1:z:284:THR:HG21	1:z:331:HIS:HA	2.01	0.42
1:2:137:VAL:HG12	1:2:277:LEU:HD11	2.02	0.42
1:2:531:LEU:CD1	1:4:128:GLN:CG	2.93	0.42
1:5:108:THR:CG2	1:5:110:TRP:HD1	2.32	0.42
1:6:233:GLN:NE2	1:6:236:LYS:HB3	2.34	0.42
1:8:40:GLY:HA3	1:8:147:ASP:OD2	2.20	0.42
1:8:404:GLN:NE2	1:8:443:ASP:N	2.58	0.42
1:8:448:GLN:HB3	1:8:558:PHE:HE1	1.85	0.42
1:C:360:PRO:HD3	1:C:402:THR:HG22	2.01	0.42
1:E:317:ARG:O	1:Q:376:LYS:HG2	2.20	0.42
1:E:360:PRO:HD3	1:E:402:THR:HG22	2.01	0.42
1:F:40:GLY:HA3	1:F:147:ASP:OD2	2.20	0.42
1:F:315:GLY:N	1:F:417:LEU:HD23	2.33	0.42
1:G:388:PRO:C	1:G:390:HIS:H	2.27	0.42
1:H:131:THR:HA	1:H:277:LEU:HD23	2.02	0.42
1:I:108:THR:CG2	1:I:110:TRP:HD1	2.32	0.42
1:K:40:GLY:HA3	1:K:147:ASP:OD2	2.20	0.42
1:L:137:VAL:HG12	1:L:277:LEU:HD11	2.02	0.42
1:M:352:PRO:HG3	1:b:314:TRP:CZ2	2.55	0.42
1:N:40:GLY:HA3	1:N:147:ASP:OD2	2.20	0.42
1:N:360:PRO:HD3	1:N:402:THR:HG22	2.01	0.42
1:O:388:PRO:C	1:O:390:HIS:H	2.27	0.42
1:P:40:GLY:HA3	1:P:147:ASP:OD2	2.20	0.42
1:Q:131:THR:HA	1:Q:277:LEU:HD23	2.02	0.42
1:Q:284:THR:HG21	1:Q:331:HIS:HA	2.01	0.42
1:V:40:GLY:HA3	1:V:147:ASP:OD2	2.20	0.42
1:V:448:GLN:HB3	1:V:558:PHE:HE1	1.85	0.42
1:X:109:PRO:HA	1:X:209:GLN:NE2	2.34	0.42
1:Y:40:GLY:HA3	1:Y:147:ASP:OD2	2.20	0.42
1:Y:315:GLY:N	1:Y:417:LEU:HD23	2.33	0.42
1:Z:284:THR:HG21	1:Z:331:HIS:HA	2.01	0.42
1:Z:404:GLN:NE2	1:Z:443:ASP:H	2.07	0.42
1:a:284:THR:HG21	1:a:331:HIS:HA	2.01	0.42
1:b:40:GLY:HA3	1:b:147:ASP:OD2	2.20	0.42
1:c:131:THR:HA	1:c:277:LEU:HD23	2.02	0.42
1:c:314:TRP:CZ2	1:o:352:PRO:HG3	2.55	0.42
1:d:276:GLN:NE2	1:d:562:ARG:HH12	2.15	0.42
1:e:131:THR:HA	1:e:277:LEU:HD23	2.02	0.42
1:f:131:THR:HA	1:f:277:LEU:HD23	2.02	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:g:360:PRO:HD3	1:g:402:THR:HG22	2.01	0.42
1:h:149:ILE:O	1:h:259:THR:HG23	2.19	0.42
1:h:233:GLN:NE2	1:h:236:LYS:HB3	2.34	0.42
1:j:149:ILE:O	1:j:259:THR:HG23	2.19	0.42
1:j:360:PRO:HD3	1:j:402:THR:HG22	2.01	0.42
1:l:40:GLY:HA3	1:l:147:ASP:OD2	2.20	0.42
1:l:356:PHE:CG	1:l:405:THR:HA	2.55	0.42
1:o:131:THR:HA	1:o:277:LEU:HD23	2.02	0.42
1:p:40:GLY:HA3	1:p:147:ASP:OD2	2.20	0.42
1:q:545:LYS:O	1:q:546:PHE:HB2	2.19	0.42
1:s:70:SER:OG	1:s:109:PRO:O	2.37	0.42
1:s:108:THR:CG2	1:s:110:TRP:HD1	2.32	0.42
1:s:137:VAL:HG12	1:s:277:LEU:HD11	2.02	0.42
1:s:149:ILE:O	1:s:259:THR:HG23	2.19	0.42
1:u:115:PRO:HG3	1:u:144:GLN:NE2	2.35	0.42
1:u:360:PRO:HD3	1:u:402:THR:HG22	2.01	0.42
1:w:131:THR:HA	1:w:277:LEU:HD23	2.02	0.42
1:x:149:ILE:O	1:x:259:THR:HG23	2.19	0.42
1:x:233:GLN:NE2	1:x:236:LYS:HB3	2.34	0.42
1:y:40:GLY:HA3	1:y:147:ASP:OD2	2.20	0.42
1:3:115:PRO:HG3	1:3:144:GLN:NE2	2.35	0.42
1:3:259:THR:HG21	1:8:172:THR:CG2	2.50	0.42
1:3:284:THR:HG21	1:3:331:HIS:HA	2.01	0.42
1:4:109:PRO:HA	1:4:209:GLN:NE2	2.34	0.42
1:7:404:GLN:NE2	1:7:443:ASP:N	2.58	0.42
1:8:108:THR:CG2	1:8:110:TRP:HD1	2.32	0.42
1:A:257:LEU:HD22	1:A:261:ASP:HB3	2.00	0.41
1:B:40:GLY:HA3	1:B:147:ASP:OD2	2.20	0.41
1:B:284:THR:HG21	1:B:331:HIS:HA	2.01	0.41
1:B:360:PRO:HD3	1:B:402:THR:HG22	2.01	0.41
1:C:317:ARG:O	1:b:376:LYS:HG2	2.20	0.41
1:D:317:ARG:O	1:N:376:LYS:HG2	2.20	0.41
1:E:131:THR:HA	1:E:277:LEU:HD23	2.02	0.41
1:F:34:GLY:N	1:R:37:HIS:NE2	2.68	0.41
1:F:115:PRO:HG3	1:F:144:GLN:NE2	2.35	0.41
1:F:284:THR:HG21	1:F:331:HIS:HA	2.01	0.41
1:H:259:THR:HG21	1:I:172:THR:CG2	2.50	0.41
1:I:115:PRO:HG3	1:I:144:GLN:NE2	2.35	0.41
1:J:137:VAL:HG12	1:J:277:LEU:HD11	2.02	0.41
1:J:233:GLN:NE2	1:J:236:LYS:HB3	2.34	0.41
1:J:531:LEU:CD1	1:K:128:GLN:CG	2.93	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:131:THR:HA	1:L:277:LEU:HD23	2.02	0.41
1:M:233:GLN:NE2	1:M:236:LYS:HB3	2.34	0.41
1:O:40:GLY:HA3	1:O:147:ASP:OD2	2.20	0.41
1:P:360:PRO:HD3	1:P:402:THR:HG22	2.01	0.41
1:Q:233:GLN:NE2	1:Q:236:LYS:HB3	2.34	0.41
1:S:115:PRO:HG3	1:S:144:GLN:NE2	2.35	0.41
1:S:315:GLY:N	1:S:417:LEU:HD23	2.33	0.41
1:S:531:LEU:CD1	1:T:128:GLN:CG	2.93	0.41
1:T:137:VAL:HG12	1:T:277:LEU:HD11	2.02	0.41
1:T:447:ILE:O	1:T:561:GLY:N	2.41	0.41
1:U:137:VAL:HG12	1:U:277:LEU:HD11	2.02	0.41
1:U:149:ILE:O	1:U:259:THR:HG23	2.19	0.41
1:U:388:PRO:C	1:U:390:HIS:H	2.27	0.41
1:U:448:GLN:HB3	1:U:558:PHE:HE1	1.85	0.41
1:W:70:SER:OG	1:W:109:PRO:O	2.37	0.41
1:W:448:GLN:HB3	1:W:558:PHE:HE1	1.85	0.41
1:X:352:PRO:HG3	1:e:314:TRP:CZ2	2.55	0.41
1:Y:259:THR:HG21	1:4:172:THR:CG2	2.50	0.41
1:Z:137:VAL:HG12	1:Z:277:LEU:HD11	2.02	0.41
1:Z:172:THR:CG2	1:a:259:THR:HG21	2.50	0.41
1:Z:360:PRO:HD3	1:Z:402:THR:HG22	2.01	0.41
1:a:115:PRO:HG3	1:a:144:GLN:NE2	2.35	0.41
1:b:131:THR:HA	1:b:277:LEU:HD23	2.02	0.41
1:b:137:VAL:HG12	1:b:277:LEU:HD11	2.01	0.41
1:f:34:GLY:N	1:z:37:HIS:NE2	2.67	0.41
1:f:40:GLY:HA3	1:f:147:ASP:OD2	2.20	0.41
1:f:388:PRO:C	1:f:390:HIS:H	2.27	0.41
1:h:115:PRO:HG3	1:h:144:GLN:NE2	2.35	0.41
1:h:137:VAL:HG12	1:h:277:LEU:HD11	2.01	0.41
1:i:360:PRO:HD3	1:i:402:THR:HG22	2.01	0.41
1:i:376:LYS:HG2	1:k:317:ARG:O	2.20	0.41
1:j:40:GLY:HA3	1:j:147:ASP:OD2	2.20	0.41
1:k:315:GLY:N	1:k:417:LEU:HD23	2.33	0.41
1:o:545:LYS:O	1:o:546:PHE:HB2	2.19	0.41
1:p:284:THR:HG21	1:p:331:HIS:HA	2.01	0.41
1:p:448:GLN:HB3	1:p:558:PHE:HE1	1.85	0.41
1:q:37:HIS:NE2	1:y:34:GLY:N	2.68	0.41
1:r:115:PRO:HG3	1:r:144:GLN:NE2	2.35	0.41
1:t:108:THR:CG2	1:t:110:TRP:HD1	2.32	0.41
1:t:388:PRO:C	1:t:390:HIS:H	2.27	0.41
1:u:172:THR:CG2	1:5:259:THR:HG21	2.50	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:w:360:PRO:HD3	1:w:402:THR:HG22	2.01	0.41
1:x:356:PHE:CG	1:x:405:THR:HA	2.55	0.41
1:z:131:THR:HA	1:z:277:LEU:HD23	2.02	0.41
1:z:137:VAL:HG12	1:z:277:LEU:HD11	2.02	0.41
1:2:40:GLY:HA3	1:2:147:ASP:OD2	2.20	0.41
1:2:70:SER:OG	1:2:109:PRO:O	2.37	0.41
1:2:233:GLN:NE2	1:2:236:LYS:HB3	2.34	0.41
1:3:40:GLY:HA3	1:3:147:ASP:OD2	2.20	0.41
1:3:356:PHE:CG	1:3:405:THR:HA	2.55	0.41
1:4:40:GLY:HA3	1:4:147:ASP:OD2	2.20	0.41
1:5:131:THR:HA	1:5:277:LEU:HD23	2.02	0.41
1:5:360:PRO:HD3	1:5:402:THR:HG22	2.01	0.41
1:6:388:PRO:C	1:6:390:HIS:H	2.27	0.41
1:8:115:PRO:HG3	1:8:144:GLN:NE2	2.35	0.41
1:8:137:VAL:HG12	1:8:277:LEU:HD11	2.02	0.41
1:8:360:PRO:HD3	1:8:402:THR:HG22	2.01	0.41
1:A:137:VAL:HG12	1:A:277:LEU:HD11	2.01	0.41
1:A:314:TRP:CZ2	1:G:352:PRO:HG3	2.55	0.41
1:B:50:TYR:OH	1:B:129:GLN:NE2	2.52	0.41
1:D:40:GLY:HA3	1:D:147:ASP:OD2	2.20	0.41
1:D:108:THR:CG2	1:D:110:TRP:HD1	2.32	0.41
1:D:131:THR:HA	1:D:277:LEU:HD23	2.02	0.41
1:D:315:GLY:N	1:D:417:LEU:HD23	2.33	0.41
1:E:70:SER:OG	1:E:109:PRO:O	2.37	0.41
1:G:75:TYR:CE1	1:G:108:THR:HG23	2.56	0.41
1:G:115:PRO:HG3	1:G:144:GLN:NE2	2.35	0.41
1:H:360:PRO:HD3	1:H:402:THR:HG22	2.01	0.41
1:I:360:PRO:HD3	1:I:402:THR:HG22	2.01	0.41
1:I:448:GLN:HB3	1:I:558:PHE:HE1	1.85	0.41
1:J:40:GLY:HA3	1:J:147:ASP:OD2	2.20	0.41
1:J:360:PRO:HD3	1:J:402:THR:HG22	2.01	0.41
1:K:109:PRO:HA	1:K:209:GLN:NE2	2.34	0.41
1:M:115:PRO:HG3	1:M:144:GLN:NE2	2.35	0.41
1:N:37:HIS:NE2	1:m:34:GLY:N	2.69	0.41
1:Q:149:ILE:O	1:Q:259:THR:HG23	2.19	0.41
1:Q:356:PHE:CG	1:Q:405:THR:HA	2.55	0.41
1:S:314:TRP:CZ2	1:U:352:PRO:HG3	2.56	0.41
1:T:34:GLY:N	1:i:37:HIS:NE2	2.68	0.41
1:U:40:GLY:HA3	1:U:147:ASP:OD2	2.20	0.41
1:U:70:SER:OG	1:U:109:PRO:O	2.37	0.41
1:U:75:TYR:CE1	1:U:108:THR:HG23	2.56	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:V:75:TYR:CE1	1:V:108:THR:HG23	2.56	0.41
1:W:115:PRO:HG3	1:W:144:GLN:NE2	2.36	0.41
1:W:388:PRO:C	1:W:390:HIS:H	2.27	0.41
1:X:75:TYR:CE1	1:X:108:THR:HG23	2.56	0.41
1:Y:283:SER:H	1:Y:286:HIS:CD2	2.39	0.41
1:Y:404:GLN:NE2	1:Y:443:ASP:N	2.58	0.41
1:Z:115:PRO:HG3	1:Z:144:GLN:NE2	2.36	0.41
1:Z:356:PHE:CG	1:Z:405:THR:HA	2.55	0.41
1:a:40:GLY:HA3	1:a:147:ASP:OD2	2.20	0.41
1:b:388:PRO:C	1:b:390:HIS:H	2.27	0.41
1:c:360:PRO:HD3	1:c:402:THR:HG22	2.01	0.41
1:d:115:PRO:HG3	1:d:144:GLN:NE2	2.35	0.41
1:e:360:PRO:HD3	1:e:402:THR:HG22	2.01	0.41
1:f:137:VAL:HG12	1:f:277:LEU:HD11	2.01	0.41
1:f:376:LYS:HG2	1:g:317:ARG:O	2.20	0.41
1:h:284:THR:HG21	1:h:331:HIS:HA	2.01	0.41
1:h:356:PHE:CG	1:h:405:THR:HA	2.55	0.41
1:i:75:TYR:CE1	1:i:108:THR:HG23	2.56	0.41
1:i:128:GLN:CG	1:l:531:LEU:CD1	2.92	0.41
1:j:317:ARG:O	1:k:376:LYS:HG2	2.20	0.41
1:k:40:GLY:HA3	1:k:147:ASP:OD2	2.20	0.41
1:k:131:THR:HA	1:k:277:LEU:HD23	2.02	0.41
1:m:128:GLN:CG	1:r:531:LEU:CD1	2.93	0.41
1:p:75:TYR:CE1	1:p:108:THR:HG23	2.56	0.41
1:r:314:TRP:CZ2	1:s:352:PRO:HG3	2.56	0.41
1:s:75:TYR:CE1	1:s:108:THR:HG23	2.56	0.41
1:t:75:TYR:CE1	1:t:108:THR:HG23	2.56	0.41
1:t:115:PRO:HG3	1:t:144:GLN:NE2	2.35	0.41
1:u:315:GLY:N	1:u:417:LEU:HD23	2.33	0.41
1:u:448:GLN:HB3	1:u:558:PHE:HE1	1.85	0.41
1:v:137:VAL:HG12	1:v:277:LEU:HD11	2.01	0.41
1:v:257:LEU:HD22	1:v:261:ASP:HB3	2.00	0.41
1:w:317:ARG:O	1:x:376:LYS:HG2	2.21	0.41
1:x:131:THR:HA	1:x:277:LEU:HD23	2.02	0.41
1:y:115:PRO:HG3	1:y:144:GLN:NE2	2.35	0.41
1:y:284:THR:HG21	1:y:331:HIS:HA	2.01	0.41
1:1:40:GLY:HA3	1:1:147:ASP:OD2	2.20	0.41
1:6:448:GLN:HB3	1:6:558:PHE:HE1	1.85	0.41
1:7:283:SER:H	1:7:286:HIS:CD2	2.39	0.41
1:A:531:LEU:CD1	1:F:128:GLN:CG	2.93	0.41
1:B:448:GLN:HB3	1:B:558:PHE:HE1	1.85	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:376:LYS:HG2	1:P:317:ARG:O	2.20	0.41
1:E:115:PRO:HG3	1:E:144:GLN:NE2	2.35	0.41
1:G:360:PRO:HD3	1:G:402:THR:HG22	2.01	0.41
1:H:70:SER:OG	1:H:109:PRO:O	2.37	0.41
1:H:115:PRO:HG3	1:H:144:GLN:NE2	2.35	0.41
1:H:284:THR:HG21	1:H:331:HIS:HA	2.01	0.41
1:H:317:ARG:O	1:W:376:LYS:HG2	2.20	0.41
1:J:317:ARG:O	1:L:376:LYS:HG2	2.21	0.41
1:M:137:VAL:HG12	1:M:277:LEU:HD11	2.01	0.41
1:M:356:PHE:CG	1:M:405:THR:HA	2.55	0.41
1:M:360:PRO:HD3	1:M:402:THR:HG22	2.01	0.41
1:O:352:PRO:HG3	1:n:314:TRP:CZ2	2.56	0.41
1:P:115:PRO:HG3	1:P:144:GLN:NE2	2.35	0.41
1:Q:115:PRO:HG3	1:Q:144:GLN:NE2	2.35	0.41
1:R:75:TYR:CE1	1:R:108:THR:HG23	2.56	0.41
1:R:314:TRP:CZ2	1:S:352:PRO:HG3	2.55	0.41
1:R:360:PRO:HD3	1:R:402:THR:HG22	2.01	0.41
1:S:40:GLY:HA3	1:S:147:ASP:OD2	2.20	0.41
1:W:131:THR:HA	1:W:277:LEU:HD23	2.02	0.41
1:a:75:TYR:CE1	1:a:108:THR:HG23	2.56	0.41
1:d:131:THR:HA	1:d:277:LEU:HD23	2.02	0.41
1:d:314:TRP:CZ2	1:l:352:PRO:HG3	2.56	0.41
1:d:360:PRO:HD3	1:d:402:THR:HG22	2.01	0.41
1:h:75:TYR:CE1	1:h:108:THR:HG23	2.56	0.41
1:h:360:PRO:HD3	1:h:402:THR:HG22	2.01	0.41
1:j:50:TYR:OH	1:j:129:GLN:NE2	2.52	0.41
1:j:115:PRO:HG3	1:j:144:GLN:NE2	2.35	0.41
1:k:108:THR:CG2	1:k:110:TRP:HD1	2.32	0.41
1:m:137:VAL:HG12	1:m:277:LEU:HD11	2.02	0.41
1:n:115:PRO:HG3	1:n:144:GLN:NE2	2.35	0.41
1:o:75:TYR:CE1	1:o:108:THR:HG23	2.56	0.41
1:p:149:ILE:O	1:p:259:THR:HG23	2.19	0.41
1:r:40:GLY:HA3	1:r:147:ASP:OD2	2.20	0.41
1:s:40:GLY:HA3	1:s:147:ASP:OD2	2.20	0.41
1:s:356:PHE:CG	1:s:405:THR:HA	2.55	0.41
1:t:352:PRO:HG3	1:v:314:TRP:CZ2	2.56	0.41
1:u:421:VAL:HG11	1:v:92:LEU:HD13	2.01	0.41
1:v:34:GLY:N	1:l:37:HIS:NE2	2.68	0.41
1:l:284:THR:HG21	1:l:331:HIS:HA	2.01	0.41
1:l:318:SER:HB2	1:2:376:LYS:NZ	2.35	0.41
1:l:360:PRO:HD3	1:l:402:THR:HG22	2.01	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:2:360:PRO:HD3	1:2:402:THR:HG22	2.01	0.41
1:3:75:TYR:CE1	1:3:108:THR:HG23	2.56	0.41
1:5:115:PRO:HG3	1:5:144:GLN:NE2	2.35	0.41
1:5:317:ARG:O	1:6:376:LYS:HG2	2.20	0.41
1:5:448:GLN:HB3	1:5:558:PHE:HE1	1.85	0.41
1:6:115:PRO:HG3	1:6:144:GLN:NE2	2.36	0.41
1:A:34:GLY:N	1:B:37:HIS:NE2	2.68	0.41
1:A:128:GLN:CG	1:F:531:LEU:CD1	2.93	0.41
1:C:115:PRO:HG3	1:C:144:GLN:NE2	2.35	0.41
1:D:149:ILE:O	1:D:259:THR:HG23	2.19	0.41
1:H:448:GLN:HB3	1:H:558:PHE:HE1	1.85	0.41
1:I:315:GLY:N	1:I:417:LEU:HD23	2.33	0.41
1:J:501:GLY:HA2	1:J:504:ARG:CD	2.51	0.41
1:K:131:THR:HA	1:K:277:LEU:HD23	2.02	0.41
1:M:75:TYR:CE1	1:M:108:THR:HG23	2.56	0.41
1:M:193:TYR:CZ	1:b:326:ARG:HD3	2.54	0.41
1:M:284:THR:HG21	1:M:331:HIS:HA	2.01	0.41
1:N:75:TYR:CE1	1:N:108:THR:HG23	2.56	0.41
1:P:501:GLY:HA2	1:P:504:ARG:CD	2.51	0.41
1:Q:50:TYR:OH	1:Q:129:GLN:NE2	2.52	0.41
1:Q:447:ILE:O	1:Q:561:GLY:N	2.41	0.41
1:R:448:GLN:HB3	1:R:558:PHE:HE1	1.85	0.41
1:S:131:THR:HA	1:S:277:LEU:HD23	2.02	0.41
1:S:317:ARG:O	1:U:376:LYS:HG2	2.21	0.41
1:T:283:SER:H	1:T:286:HIS:CD2	2.39	0.41
1:T:315:GLY:N	1:T:417:LEU:HD23	2.33	0.41
1:T:404:GLN:NE2	1:T:443:ASP:H	2.07	0.41
1:U:115:PRO:HG3	1:U:144:GLN:NE2	2.36	0.41
1:W:137:VAL:HG12	1:W:277:LEU:HD11	2.01	0.41
1:W:314:TRP:CZ2	1:Y:352:PRO:HG3	2.56	0.41
1:a:360:PRO:HD3	1:a:402:THR:HG22	2.01	0.41
1:b:75:TYR:CE1	1:b:108:THR:HG23	2.56	0.41
1:c:75:TYR:CE1	1:c:108:THR:HG23	2.56	0.41
1:c:284:THR:HG21	1:c:331:HIS:HA	2.01	0.41
1:c:376:LYS:HG2	1:p:317:ARG:O	2.20	0.41
1:d:109:PRO:HA	1:d:209:GLN:NE2	2.34	0.41
1:e:284:THR:HG21	1:e:331:HIS:HA	2.01	0.41
1:f:75:TYR:CE1	1:f:108:THR:HG23	2.56	0.41
1:h:531:LEU:CD1	1:k:128:GLN:CG	2.93	0.41
1:k:149:ILE:O	1:k:259:THR:HG23	2.19	0.41
1:m:50:TYR:OH	1:m:129:GLN:NE2	2.52	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:m:283:SER:H	1:m:286:HIS:CD2	2.39	0.41
1:n:131:THR:HA	1:n:277:LEU:HD23	2.02	0.41
1:n:360:PRO:HD3	1:n:402:THR:HG22	2.01	0.41
1:o:259:THR:HG21	1:7:172:THR:CG2	2.51	0.41
1:p:172:THR:CG2	1:6:259:THR:HG21	2.50	0.41
1:q:75:TYR:CE1	1:q:108:THR:HG23	2.56	0.41
1:q:314:TRP:CZ2	1:r:352:PRO:HG3	2.55	0.41
1:q:360:PRO:HD3	1:q:402:THR:HG22	2.01	0.41
1:r:317:ARG:O	1:s:376:LYS:HG2	2.21	0.41
1:r:501:GLY:HA2	1:r:504:ARG:CD	2.51	0.41
1:t:360:PRO:HD3	1:t:402:THR:HG22	2.01	0.41
1:w:283:SER:H	1:w:286:HIS:CD2	2.39	0.41
1:w:376:LYS:HG2	1:y:317:ARG:O	2.21	0.41
1:x:115:PRO:HG3	1:x:144:GLN:NE2	2.35	0.41
1:x:315:GLY:N	1:x:417:LEU:HD23	2.33	0.41
1:x:448:GLN:HB3	1:x:558:PHE:HE1	1.85	0.41
1:1:50:TYR:OH	1:1:129:GLN:NE2	2.52	0.41
1:1:404:GLN:NE2	1:1:443:ASP:N	2.58	0.41
1:2:501:GLY:HA2	1:2:504:ARG:CD	2.51	0.41
1:6:131:THR:HA	1:6:277:LEU:HD23	2.02	0.41
1:6:137:VAL:HG12	1:6:277:LEU:HD11	2.02	0.41
1:6:314:TRP:CZ2	1:7:352:PRO:HG3	2.56	0.41
1:A:92:LEU:HD13	1:I:421:VAL:HG11	2.01	0.41
1:B:137:VAL:HG12	1:B:277:LEU:HD11	2.01	0.41
1:B:404:GLN:NE2	1:B:443:ASP:N	2.58	0.41
1:D:172:THR:CG2	1:E:259:THR:HG21	2.51	0.41
1:E:283:SER:H	1:E:286:HIS:CD2	2.39	0.41
1:H:314:TRP:CZ2	1:W:352:PRO:HG3	2.56	0.41
1:K:501:GLY:HA2	1:K:504:ARG:CD	2.51	0.41
1:M:501:GLY:HA2	1:M:504:ARG:CD	2.51	0.41
1:N:128:GLN:CG	1:O:531:LEU:CD1	2.92	0.41
1:N:314:TRP:CZ2	1:P:352:PRO:HG3	2.56	0.41
1:O:376:LYS:HG2	1:n:317:ARG:O	2.21	0.41
1:P:50:TYR:OH	1:P:129:GLN:NE2	2.52	0.41
1:P:259:THR:HG21	1:Q:172:THR:CG2	2.51	0.41
1:Q:40:GLY:HA3	1:Q:147:ASP:OD2	2.20	0.41
1:Q:315:GLY:N	1:Q:417:LEU:HD23	2.33	0.41
1:R:131:THR:HA	1:R:277:LEU:HD23	2.02	0.41
1:S:283:SER:H	1:S:286:HIS:CD2	2.39	0.41
1:S:501:GLY:HA2	1:S:504:ARG:CD	2.51	0.41
1:T:50:TYR:OH	1:T:129:GLN:NE2	2.52	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:T:345:SER:O	1:l:283:SER:OG	2.35	0.41
1:U:356:PHE:CG	1:U:405:THR:HA	2.55	0.41
1:V:149:ILE:O	1:V:259:THR:HG23	2.19	0.41
1:V:172:THR:CG2	1:W:259:THR:HG21	2.50	0.41
1:V:317:ARG:O	1:e:376:LYS:HG2	2.20	0.41
1:Y:501:GLY:HA2	1:Y:504:ARG:CD	2.51	0.41
1:a:283:SER:H	1:a:286:HIS:CD2	2.39	0.41
1:d:317:ARG:O	1:l:376:LYS:HG2	2.21	0.41
1:e:75:TYR:CE1	1:e:108:THR:HG23	2.56	0.41
1:e:115:PRO:HG3	1:e:144:GLN:NE2	2.35	0.41
1:g:115:PRO:HG3	1:g:144:GLN:NE2	2.36	0.41
1:h:448:GLN:HB3	1:h:558:PHE:HE1	1.85	0.41
1:j:172:THR:CG2	1:l:259:THR:HG21	2.51	0.41
1:j:283:SER:OG	1:k:345:SER:O	2.34	0.41
1:j:501:GLY:HA2	1:j:504:ARG:CD	2.51	0.41
1:k:172:THR:CG2	1:w:259:THR:HG21	2.51	0.41
1:q:448:GLN:HB3	1:q:558:PHE:HE1	1.85	0.41
1:r:283:SER:H	1:r:286:HIS:CD2	2.39	0.41
1:s:115:PRO:HG3	1:s:144:GLN:NE2	2.36	0.41
1:s:388:PRO:C	1:s:390:HIS:H	2.27	0.41
1:u:531:LEU:CD1	1:l:128:GLN:CG	2.93	0.41
1:w:115:PRO:HG3	1:w:144:GLN:NE2	2.35	0.41
1:x:40:GLY:HA3	1:x:147:ASP:OD2	2.20	0.41
1:x:137:VAL:HG12	1:x:277:LEU:HD11	2.02	0.41
1:x:360:PRO:HD3	1:x:402:THR:HG22	2.01	0.41
1:z:193:TYR:CZ	1:2:326:ARG:HD3	2.54	0.41
1:1:448:GLN:HB3	1:1:558:PHE:HE1	1.85	0.41
1:3:283:SER:H	1:3:286:HIS:CD2	2.39	0.41
1:3:360:PRO:HD3	1:3:402:THR:HG22	2.01	0.41
1:3:501:GLY:HA2	1:3:504:ARG:CD	2.51	0.41
1:4:131:THR:HA	1:4:277:LEU:HD23	2.02	0.41
1:5:75:TYR:CE1	1:5:108:THR:HG23	2.56	0.41
1:5:284:THR:HG21	1:5:331:HIS:HA	2.01	0.41
1:5:314:TRP:CZ2	1:6:352:PRO:HG3	2.56	0.41
1:6:40:GLY:HA3	1:6:147:ASP:OD2	2.20	0.41
1:7:501:GLY:HA2	1:7:504:ARG:CD	2.51	0.41
1:8:356:PHE:CG	1:8:405:THR:HA	2.55	0.41
1:A:283:SER:H	1:A:286:HIS:CD2	2.39	0.41
1:B:314:TRP:CZ2	1:J:352:PRO:HG3	2.55	0.41
1:C:376:LYS:HG2	1:M:317:ARG:O	2.21	0.41
1:D:75:TYR:CE1	1:D:108:THR:HG23	2.56	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:376:LYS:HG2	1:F:317:ARG:O	2.21	0.41
1:F:352:PRO:HG3	1:Q:314:TRP:CZ2	2.56	0.41
1:G:314:TRP:CZ2	1:I:352:PRO:HG3	2.56	0.41
1:H:75:TYR:CE1	1:H:108:THR:HG23	2.56	0.41
1:H:283:SER:H	1:H:286:HIS:CD2	2.39	0.41
1:K:404:GLN:NE2	1:K:443:ASP:N	2.58	0.41
1:M:448:GLN:HB3	1:M:558:PHE:HE1	1.85	0.41
1:N:356:PHE:CG	1:N:405:THR:HA	2.55	0.41
1:O:34:GLY:N	1:d:37:HIS:NE2	2.69	0.41
1:O:50:TYR:OH	1:O:129:GLN:NE2	2.52	0.41
1:O:259:THR:HG21	1:P:172:THR:CG2	2.51	0.41
1:O:283:SER:OG	1:m:345:SER:O	2.35	0.41
1:Q:137:VAL:HG12	1:Q:277:LEU:HD11	2.02	0.41
1:R:115:PRO:HG3	1:R:144:GLN:NE2	2.35	0.41
1:R:376:LYS:HG2	1:U:317:ARG:O	2.20	0.41
1:S:75:TYR:CE1	1:S:108:THR:HG23	2.56	0.41
1:S:448:GLN:HB3	1:S:558:PHE:HE1	1.85	0.41
1:W:40:GLY:HA3	1:W:147:ASP:OD2	2.20	0.41
1:W:317:ARG:O	1:Y:376:LYS:HG2	2.20	0.41
1:X:34:GLY:N	1:f:37:HIS:NE2	2.68	0.41
1:Y:109:PRO:HA	1:Y:209:GLN:NE2	2.34	0.41
1:a:501:GLY:HA2	1:a:504:ARG:CD	2.51	0.41
1:b:501:GLY:HA2	1:b:504:ARG:CD	2.51	0.41
1:e:37:HIS:NE2	1:h:34:GLY:N	2.68	0.41
1:f:326:ARG:HD3	1:h:193:TYR:CZ	2.54	0.41
1:f:501:GLY:HA2	1:f:504:ARG:CD	2.51	0.41
1:h:40:GLY:HA3	1:h:147:ASP:OD2	2.20	0.41
1:i:314:TRP:CZ2	1:j:352:PRO:HG3	2.56	0.41
1:j:259:THR:HG21	1:x:172:THR:CG2	2.51	0.41
1:l:34:GLY:N	1:n:37:HIS:NE2	2.69	0.41
1:l:50:TYR:OH	1:l:129:GLN:NE2	2.52	0.41
1:m:315:GLY:N	1:m:417:LEU:HD23	2.33	0.41
1:m:404:GLN:NE2	1:m:443:ASP:H	2.07	0.41
1:m:447:ILE:O	1:m:561:GLY:N	2.41	0.41
1:n:109:PRO:HA	1:n:209:GLN:NE2	2.34	0.41
1:n:516:LYS:HE3	1:n:518:ILE:HD11	2.03	0.41
1:p:115:PRO:HG3	1:p:144:GLN:NE2	2.35	0.41
1:p:131:THR:HA	1:p:277:LEU:HD23	2.02	0.41
1:q:131:THR:HA	1:q:277:LEU:HD23	2.02	0.41
1:q:283:SER:H	1:q:286:HIS:CD2	2.39	0.41
1:q:376:LYS:HG2	1:s:317:ARG:O	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:r:75:TYR:CE1	1:r:108:THR:HG23	2.56	0.41
1:r:131:THR:HA	1:r:277:LEU:HD23	2.02	0.41
1:s:50:TYR:OH	1:s:129:GLN:NE2	2.52	0.41
1:t:314:TRP:CZ2	1:u:352:PRO:HG3	2.56	0.41
1:t:516:LYS:HE3	1:t:518:ILE:HD11	2.03	0.41
1:v:259:THR:HG21	1:w:172:THR:CG2	2.51	0.41
1:w:315:GLY:N	1:w:417:LEU:HD23	2.33	0.41
1:x:50:TYR:OH	1:x:129:GLN:NE2	2.52	0.41
1:z:516:LYS:HE3	1:z:518:ILE:HD11	2.03	0.41
1:4:501:GLY:HA2	1:4:504:ARG:CD	2.51	0.41
1:6:317:ARG:O	1:7:376:LYS:HG2	2.20	0.41
1:7:109:PRO:HA	1:7:209:GLN:NE2	2.34	0.41
1:A:259:THR:HG21	1:E:172:THR:CG2	2.51	0.41
1:A:352:PRO:HG3	1:I:314:TRP:CZ2	2.56	0.41
1:A:376:LYS:HG2	1:I:317:ARG:O	2.20	0.41
1:D:128:GLN:CG	1:M:531:LEU:CD1	2.93	0.41
1:G:516:LYS:HE3	1:G:518:ILE:HD11	2.03	0.41
1:I:516:LYS:HE3	1:I:518:ILE:HD11	2.03	0.41
1:K:388:PRO:C	1:K:390:HIS:H	2.27	0.41
1:L:75:TYR:CE1	1:L:108:THR:HG23	2.56	0.41
1:M:40:GLY:HA3	1:M:147:ASP:OD2	2.20	0.41
1:M:259:THR:HG21	1:N:172:THR:CG2	2.51	0.41
1:O:516:LYS:HE3	1:O:518:ILE:HD11	2.03	0.41
1:P:75:TYR:CE1	1:P:108:THR:HG23	2.56	0.41
1:Q:109:PRO:HA	1:Q:209:GLN:NE2	2.34	0.41
1:Q:360:PRO:HD3	1:Q:402:THR:HG22	2.01	0.41
1:Q:448:GLN:HB3	1:Q:558:PHE:HE1	1.85	0.41
1:R:283:SER:H	1:R:286:HIS:CD2	2.39	0.41
1:R:326:ARG:HH21	1:S:192:MET:HG3	1.86	0.41
1:S:109:PRO:HA	1:S:209:GLN:NE2	2.34	0.41
1:T:356:PHE:CG	1:T:405:THR:HA	2.55	0.41
1:U:50:TYR:OH	1:U:129:GLN:NE2	2.52	0.41
1:V:115:PRO:HG3	1:V:144:GLN:NE2	2.35	0.41
1:V:131:THR:HA	1:V:277:LEU:HD23	2.02	0.41
1:W:128:GLN:CG	1:X:531:LEU:CD1	2.92	0.41
1:X:259:THR:HG21	1:Y:172:THR:CG2	2.51	0.41
1:X:376:LYS:NZ	1:e:318:SER:HB2	2.36	0.41
1:X:501:GLY:HA2	1:X:504:ARG:CD	2.51	0.41
1:c:115:PRO:HG3	1:c:144:GLN:NE2	2.35	0.41
1:c:318:SER:HB2	1:o:376:LYS:NZ	2.36	0.41
1:d:516:LYS:HE3	1:d:518:ILE:HD11	2.03	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:g:172:THR:CG2	1:k:259:THR:HG21	2.50	0.41
1:g:376:LYS:HG2	1:h:317:ARG:O	2.21	0.41
1:g:501:GLY:HA2	1:g:504:ARG:CD	2.51	0.41
1:h:501:GLY:HA2	1:h:504:ARG:CD	2.51	0.41
1:i:356:PHE:CG	1:i:405:THR:HA	2.55	0.41
1:j:75:TYR:CE1	1:j:108:THR:HG23	2.56	0.41
1:k:75:TYR:CE1	1:k:108:THR:HG23	2.56	0.41
1:m:115:PRO:HG3	1:m:144:GLN:NE2	2.36	0.41
1:m:501:GLY:HA2	1:m:504:ARG:CD	2.51	0.41
1:o:501:GLY:HA2	1:o:504:ARG:CD	2.51	0.41
1:o:531:LEU:CD1	1:6:128:GLN:CG	2.93	0.41
1:s:501:GLY:HA2	1:s:504:ARG:CD	2.51	0.41
1:t:376:LYS:HG2	1:v:317:ARG:O	2.21	0.41
1:u:40:GLY:HA3	1:u:147:ASP:OD2	2.20	0.41
1:u:317:ARG:O	1:v:376:LYS:HG2	2.20	0.41
1:v:75:TYR:CE1	1:v:108:THR:HG23	2.56	0.41
1:v:128:GLN:CG	1:y:531:LEU:CD1	2.93	0.41
1:v:283:SER:H	1:v:286:HIS:CD2	2.39	0.41
1:w:352:PRO:HG3	1:y:314:TRP:CZ2	2.56	0.41
1:x:314:TRP:CZ2	1:y:352:PRO:HG3	2.56	0.41
1:z:75:TYR:CE1	1:z:108:THR:HG23	2.56	0.41
1:1:406:ASN:CG	1:2:342:HIS:CE1	2.99	0.41
1:5:283:SER:H	1:5:286:HIS:CD2	2.39	0.41
1:6:315:GLY:N	1:6:417:LEU:HD23	2.33	0.41
1:7:75:TYR:CE1	1:7:108:THR:HG23	2.56	0.41
1:A:75:TYR:CE1	1:A:108:THR:HG23	2.56	0.41
1:A:317:ARG:O	1:G:376:LYS:HG2	2.21	0.41
1:B:128:GLN:CG	1:I:531:LEU:CD1	2.93	0.41
1:C:172:THR:CG2	1:D:259:THR:HG21	2.50	0.41
1:C:314:TRP:CZ2	1:b:352:PRO:HG3	2.56	0.41
1:C:501:GLY:HA2	1:C:504:ARG:CD	2.51	0.41
1:D:115:PRO:HG3	1:D:144:GLN:NE2	2.36	0.41
1:D:283:SER:OG	1:N:345:SER:O	2.35	0.41
1:E:352:PRO:HG3	1:F:314:TRP:CZ2	2.56	0.41
1:E:406:ASN:CG	1:Q:342:HIS:CE1	2.99	0.41
1:H:501:GLY:HA2	1:H:504:ARG:CD	2.51	0.41
1:K:314:TRP:CZ2	1:a:352:PRO:HG3	2.56	0.41
1:K:317:ARG:O	1:a:376:LYS:HG2	2.21	0.41
1:K:447:ILE:O	1:K:561:GLY:N	2.41	0.41
1:L:283:SER:H	1:L:286:HIS:CD2	2.39	0.41
1:L:516:LYS:HE3	1:L:518:ILE:HD11	2.03	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:34:GLY:N	1:c:37:HIS:NE2	2.69	0.41
1:O:540:GLY:O	1:O:541:THR:OG1	2.28	0.41
1:Q:259:THR:HG21	1:S:172:THR:CG2	2.50	0.41
1:S:356:PHE:CG	1:S:405:THR:HA	2.55	0.41
1:T:115:PRO:HG3	1:T:144:GLN:NE2	2.36	0.41
1:T:501:GLY:HA2	1:T:504:ARG:CD	2.51	0.41
1:U:501:GLY:HA2	1:U:504:ARG:CD	2.51	0.41
1:W:516:LYS:HE3	1:W:518:ILE:HD11	2.03	0.41
1:Y:75:TYR:CE1	1:Y:108:THR:HG23	2.56	0.41
1:c:516:LYS:HE3	1:c:518:ILE:HD11	2.03	0.41
1:d:75:TYR:CE1	1:d:108:THR:HG23	2.56	0.41
1:e:516:LYS:HE3	1:e:518:ILE:HD11	2.03	0.41
1:f:516:LYS:HE3	1:f:518:ILE:HD11	2.03	0.41
1:g:40:GLY:HA3	1:g:147:ASP:OD2	2.20	0.41
1:l:516:LYS:HE3	1:l:518:ILE:HD11	2.03	0.41
1:m:356:PHE:CG	1:m:405:THR:HA	2.55	0.41
1:n:75:TYR:CE1	1:n:108:THR:HG23	2.56	0.41
1:q:115:PRO:HG3	1:q:144:GLN:NE2	2.35	0.41
1:q:326:ARG:HH21	1:r:192:MET:HG3	1.86	0.41
1:r:172:THR:CG2	1:x:259:THR:HG21	2.50	0.41
1:u:314:TRP:CZ2	1:v:352:PRO:HG3	2.56	0.41
1:u:516:LYS:HE3	1:u:518:ILE:HD11	2.03	0.41
1:v:50:TYR:OH	1:v:129:GLN:NE2	2.52	0.41
1:x:75:TYR:CE1	1:x:108:THR:HG23	2.56	0.41
1:y:516:LYS:HE3	1:y:518:ILE:HD11	2.03	0.41
1:z:283:SER:H	1:z:286:HIS:CD2	2.39	0.41
1:1:137:VAL:HG12	1:1:277:LEU:HD11	2.02	0.41
1:2:131:THR:HA	1:2:277:LEU:HD23	2.02	0.41
1:3:352:PRO:HG3	1:4:314:TRP:CZ2	2.56	0.41
1:3:376:LYS:HG2	1:4:317:ARG:O	2.21	0.41
1:4:115:PRO:HG3	1:4:144:GLN:NE2	2.35	0.41
1:4:388:PRO:C	1:4:390:HIS:H	2.27	0.41
1:6:516:LYS:HE3	1:6:518:ILE:HD11	2.03	0.41
1:A:50:TYR:OH	1:A:129:GLN:NE2	2.52	0.41
1:A:131:THR:HA	1:A:277:LEU:HD23	2.02	0.41
1:A:448:GLN:HB3	1:A:558:PHE:HE1	1.85	0.41
1:A:551:ILE:HD12	1:A:551:ILE:HG23	1.90	0.41
1:C:40:GLY:HA3	1:C:147:ASP:OD2	2.20	0.41
1:C:55:VAL:HG21	1:C:134:CYS:SG	2.61	0.41
1:C:283:SER:H	1:C:286:HIS:CD2	2.39	0.41
1:D:314:TRP:CZ2	1:N:352:PRO:HG3	2.56	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:345:SER:O	1:P:283:SER:OG	2.34	0.41
1:D:352:PRO:HG3	1:P:314:TRP:CZ2	2.56	0.41
1:D:516:LYS:HE3	1:D:518:ILE:HD11	2.03	0.41
1:E:75:TYR:CE1	1:E:108:THR:HG23	2.56	0.41
1:E:314:TRP:CZ2	1:Q:352:PRO:HG3	2.56	0.41
1:E:315:GLY:N	1:E:417:LEU:HD23	2.33	0.41
1:E:448:GLN:HB3	1:E:558:PHE:HE1	1.85	0.41
1:E:516:LYS:HE3	1:E:518:ILE:HD11	2.03	0.41
1:E:531:LEU:CD1	1:P:128:GLN:CG	2.92	0.41
1:F:37:HIS:NE2	1:G:34:GLY:N	2.69	0.41
1:F:376:LYS:HG2	1:Q:317:ARG:O	2.20	0.41
1:F:501:GLY:HA2	1:F:504:ARG:CD	2.51	0.41
1:F:516:LYS:HE3	1:F:518:ILE:HD11	2.03	0.41
1:G:317:ARG:O	1:I:376:LYS:HG2	2.21	0.41
1:I:40:GLY:HA3	1:I:147:ASP:OD2	2.20	0.41
1:J:131:THR:HA	1:J:277:LEU:HD23	2.02	0.41
1:K:115:PRO:HG3	1:K:144:GLN:NE2	2.36	0.41
1:L:108:THR:CG2	1:L:110:TRP:HD1	2.32	0.41
1:L:501:GLY:HA2	1:L:504:ARG:CD	2.51	0.41
1:N:448:GLN:HB3	1:N:558:PHE:HE1	1.85	0.41
1:O:115:PRO:HG3	1:O:144:GLN:NE2	2.35	0.41
1:O:131:THR:HA	1:O:277:LEU:HD23	2.02	0.41
1:O:172:THR:CG2	1:d:259:THR:HG21	2.50	0.41
1:O:314:TRP:CZ2	1:m:352:PRO:HG3	2.56	0.41
1:O:501:GLY:HA2	1:O:504:ARG:CD	2.51	0.41
1:P:276:GLN:NE2	1:P:562:ARG:HH12	2.15	0.41
1:Q:75:TYR:CE1	1:Q:108:THR:HG23	2.56	0.41
1:Q:276:GLN:NE2	1:Q:562:ARG:HH12	2.15	0.41
1:S:259:THR:HG21	1:d:172:THR:CG2	2.51	0.41
1:S:334:TYR:CE2	1:S:354:ALA:HB2	2.56	0.41
1:T:259:THR:HG21	1:U:172:THR:CG2	2.51	0.41
1:T:314:TRP:CZ2	1:d:352:PRO:HG3	2.56	0.41
1:T:352:PRO:HG3	1:l:314:TRP:CZ2	2.56	0.41
1:W:50:TYR:OH	1:W:129:GLN:NE2	2.52	0.41
1:W:283:SER:H	1:W:286:HIS:CD2	2.39	0.41
1:W:315:GLY:N	1:W:417:LEU:HD23	2.33	0.41
1:X:115:PRO:HG3	1:X:144:GLN:NE2	2.35	0.41
1:Y:37:HIS:NE2	1:4:34:GLY:N	2.68	0.41
1:Y:404:GLN:NE2	1:Y:443:ASP:H	2.07	0.41
1:Z:92:LEU:HD13	1:3:421:VAL:HG11	2.01	0.41
1:Z:131:THR:HA	1:Z:277:LEU:HD23	2.02	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Z:376:LYS:HG2	1:3:317:ARG:O	2.21	0.41
1:a:50:TYR:OH	1:a:129:GLN:NE2	2.52	0.41
1:a:128:GLN:CG	1:3:531:LEU:CD1	2.93	0.41
1:a:317:ARG:O	1:8:376:LYS:HG2	2.21	0.41
1:a:334:TYR:CE2	1:a:354:ALA:HB2	2.56	0.41
1:a:421:VAL:HG11	1:8:92:LEU:HD13	2.01	0.41
1:a:531:LEU:CD1	1:3:128:GLN:CG	2.92	0.41
1:b:115:PRO:HG3	1:b:144:GLN:NE2	2.35	0.41
1:b:516:LYS:HE3	1:b:518:ILE:HD11	2.03	0.41
1:c:540:GLY:O	1:c:541:THR:OG1	2.28	0.41
1:e:50:TYR:OH	1:e:129:GLN:NE2	2.52	0.41
1:e:448:GLN:HB3	1:e:558:PHE:HE1	1.85	0.41
1:e:540:GLY:O	1:e:541:THR:OG1	2.28	0.41
1:f:352:PRO:HG3	1:g:314:TRP:CZ2	2.56	0.41
1:g:55:VAL:HG21	1:g:134:CYS:SG	2.61	0.41
1:h:259:THR:HG21	1:i:172:THR:CG2	2.51	0.41
1:i:352:PRO:HG3	1:k:314:TRP:CZ2	2.56	0.41
1:j:314:TRP:CZ2	1:k:352:PRO:HG3	2.56	0.41
1:j:516:LYS:HE3	1:j:518:ILE:HD11	2.03	0.41
1:k:115:PRO:HG3	1:k:144:GLN:NE2	2.36	0.41
1:k:516:LYS:HE3	1:k:518:ILE:HD11	2.03	0.41
1:l:131:THR:HA	1:l:277:LEU:HD23	2.02	0.41
1:l:172:THR:CG2	1:n:259:THR:HG21	2.50	0.41
1:l:501:GLY:HA2	1:l:504:ARG:CD	2.51	0.41
1:m:75:TYR:CE1	1:m:108:THR:HG23	2.56	0.41
1:m:259:THR:HG21	1:s:172:THR:CG2	2.51	0.41
1:m:314:TRP:CZ2	1:n:352:PRO:HG3	2.56	0.41
1:n:172:THR:CG2	1:r:259:THR:HG21	2.51	0.41
1:o:115:PRO:HG3	1:o:144:GLN:NE2	2.35	0.41
1:r:109:PRO:HA	1:r:209:GLN:NE2	2.34	0.41
1:r:334:TYR:CE2	1:r:354:ALA:HB2	2.56	0.41
1:r:356:PHE:CG	1:r:405:THR:HA	2.55	0.41
1:r:448:GLN:HB3	1:r:558:PHE:HE1	1.85	0.41
1:s:131:THR:HA	1:s:277:LEU:HD23	2.02	0.41
1:t:404:GLN:NE2	1:t:443:ASP:H	2.07	0.41
1:u:128:GLN:CG	1:1:531:LEU:CD1	2.93	0.41
1:w:75:TYR:CE1	1:w:108:THR:HG23	2.56	0.41
1:w:314:TRP:CZ2	1:x:352:PRO:HG3	2.56	0.41
1:w:406:ASN:CG	1:x:342:HIS:CE1	2.99	0.41
1:x:109:PRO:HA	1:x:209:GLN:NE2	2.34	0.41
1:x:317:ARG:O	1:y:376:LYS:HG2	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:x:447:ILE:O	1:x:561:GLY:N	2.41	0.41
1:y:501:GLY:HA2	1:y:504:ARG:CD	2.51	0.41
1:z:108:THR:CG2	1:z:110:TRP:HD1	2.32	0.41
1:z:326:ARG:HD3	1:1:193:TYR:CZ	2.56	0.41
1:z:376:LYS:NZ	1:2:318:SER:HB2	2.36	0.41
1:z:501:GLY:HA2	1:z:504:ARG:CD	2.51	0.41
1:1:421:VAL:HG11	1:2:92:LEU:HD13	2.02	0.41
1:3:50:TYR:OH	1:3:129:GLN:NE2	2.52	0.41
1:3:70:SER:OG	1:3:109:PRO:O	2.37	0.41
1:4:448:GLN:HB3	1:4:558:PHE:HE1	1.85	0.41
1:5:356:PHE:CG	1:5:405:THR:HA	2.55	0.41
1:5:376:LYS:HG2	1:7:317:ARG:O	2.21	0.41
1:5:501:GLY:HA2	1:5:504:ARG:CD	2.51	0.41
1:6:50:TYR:OH	1:6:129:GLN:NE2	2.52	0.41
1:6:283:SER:H	1:6:286:HIS:CD2	2.39	0.41
1:6:501:GLY:HA2	1:6:504:ARG:CD	2.51	0.41
1:7:516:LYS:HE3	1:7:518:ILE:HD11	2.03	0.41
1:B:115:PRO:HG3	1:B:144:GLN:NE2	2.35	0.41
1:B:283:SER:H	1:B:286:HIS:CD2	2.39	0.41
1:C:75:TYR:CE1	1:C:108:THR:HG23	2.56	0.41
1:E:55:VAL:HG21	1:E:134:CYS:SG	2.61	0.41
1:G:283:SER:H	1:G:286:HIS:CD2	2.39	0.41
1:H:55:VAL:HG21	1:H:134:CYS:SG	2.61	0.41
1:H:356:PHE:CG	1:H:405:THR:HA	2.55	0.41
1:K:34:GLY:N	1:7:37:HIS:NE2	2.69	0.41
1:K:75:TYR:CE1	1:K:108:THR:HG23	2.56	0.41
1:K:283:SER:H	1:K:286:HIS:CD2	2.39	0.41
1:K:448:GLN:HB3	1:K:558:PHE:HE1	1.85	0.41
1:M:376:LYS:NZ	1:b:318:SER:HB2	2.36	0.41
1:N:501:GLY:HA2	1:N:504:ARG:CD	2.51	0.41
1:Q:450:PRO:HB2	1:Q:451:TRP:CE2	2.56	0.41
1:Q:516:LYS:HE3	1:Q:518:ILE:HD11	2.03	0.41
1:R:442:VAL:HG23	1:S:463:HIS:HB3	2.03	0.41
1:S:55:VAL:HG21	1:S:134:CYS:SG	2.61	0.41
1:T:75:TYR:CE1	1:T:108:THR:HG23	2.56	0.41
1:U:131:THR:HA	1:U:277:LEU:HD23	2.02	0.41
1:V:34:GLY:N	1:W:37:HIS:NE2	2.69	0.41
1:V:352:PRO:HG3	1:X:314:TRP:CZ2	2.56	0.41
1:X:334:TYR:CE2	1:X:354:ALA:HB2	2.56	0.41
1:Y:448:GLN:HB3	1:Y:558:PHE:HE1	1.85	0.41
1:Y:516:LYS:HE3	1:Y:518:ILE:HD11	2.03	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:a:70:SER:OG	1:a:109:PRO:O	2.37	0.41
1:b:37:HIS:NE2	1:o:34:GLY:N	2.69	0.41
1:c:50:TYR:OH	1:c:129:GLN:NE2	2.52	0.41
1:d:501:GLY:HA2	1:d:504:ARG:CD	2.51	0.41
1:f:315:GLY:N	1:f:417:LEU:HD23	2.33	0.41
1:f:318:SER:HB2	1:h:376:LYS:NZ	2.36	0.41
1:f:442:VAL:HG23	1:h:463:HIS:HB3	2.03	0.41
1:g:283:SER:H	1:g:286:HIS:CD2	2.39	0.41
1:h:283:SER:H	1:h:286:HIS:CD2	2.39	0.41
1:i:448:GLN:HB3	1:i:558:PHE:HE1	1.85	0.41
1:i:501:GLY:HA2	1:i:504:ARG:CD	2.51	0.41
1:i:540:GLY:O	1:i:541:THR:OG1	2.28	0.41
1:k:55:VAL:HG21	1:k:134:CYS:SG	2.61	0.41
1:l:115:PRO:HG3	1:l:144:GLN:NE2	2.35	0.41
1:n:34:GLY:N	1:r:37:HIS:NE2	2.69	0.41
1:n:501:GLY:HA2	1:n:504:ARG:CD	2.51	0.41
1:q:442:VAL:HG23	1:r:463:HIS:HB3	2.03	0.41
1:t:34:GLY:N	1:y:37:HIS:NE2	2.69	0.41
1:t:55:VAL:HG21	1:t:134:CYS:SG	2.61	0.41
1:t:283:SER:H	1:t:286:HIS:CD2	2.39	0.41
1:t:317:ARG:O	1:u:376:LYS:HG2	2.21	0.41
1:u:501:GLY:HA2	1:u:504:ARG:CD	2.51	0.41
1:v:131:THR:HA	1:v:277:LEU:HD23	2.02	0.41
1:v:315:GLY:N	1:v:417:LEU:HD23	2.33	0.41
1:v:448:GLN:HB3	1:v:558:PHE:HE1	1.85	0.41
1:w:55:VAL:HG21	1:w:134:CYS:SG	2.61	0.41
1:w:448:GLN:HB3	1:w:558:PHE:HE1	1.85	0.41
1:w:516:LYS:HE3	1:w:518:ILE:HD11	2.03	0.41
1:x:55:VAL:HG21	1:x:134:CYS:SG	2.61	0.41
1:x:276:GLN:NE2	1:x:562:ARG:HH12	2.15	0.41
1:x:516:LYS:HE3	1:x:518:ILE:HD11	2.03	0.41
1:1:314:TRP:CZ2	1:2:352:PRO:HG3	2.56	0.41
1:2:75:TYR:CE1	1:2:108:THR:HG23	2.56	0.41
1:3:334:TYR:CE2	1:3:354:ALA:HB2	2.56	0.41
1:4:404:GLN:NE2	1:4:443:ASP:N	2.58	0.41
1:5:334:TYR:CE2	1:5:354:ALA:HB2	2.56	0.41
1:6:55:VAL:HG21	1:6:134:CYS:SG	2.61	0.41
1:7:448:GLN:HB3	1:7:558:PHE:HE1	1.85	0.41
1:A:501:GLY:HA2	1:A:504:ARG:CD	2.51	0.40
1:D:55:VAL:HG21	1:D:134:CYS:SG	2.61	0.40
1:D:334:TYR:CE2	1:D:354:ALA:HB2	2.56	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:531:LEU:CD1	1:M:128:GLN:CG	2.92	0.40
1:F:75:TYR:CE1	1:F:108:THR:HG23	2.56	0.40
1:F:259:THR:HG21	1:G:172:THR:CG2	2.51	0.40
1:G:55:VAL:HG21	1:G:134:CYS:SG	2.61	0.40
1:H:334:TYR:CE2	1:H:354:ALA:HB2	2.56	0.40
1:H:376:LYS:HG2	1:Y:317:ARG:O	2.21	0.40
1:J:75:TYR:CE1	1:J:108:THR:HG23	2.56	0.40
1:K:259:THR:HG21	1:L:172:THR:CG2	2.51	0.40
1:M:283:SER:H	1:M:286:HIS:CD2	2.39	0.40
1:M:463:HIS:HB3	1:b:442:VAL:HG23	2.03	0.40
1:O:317:ARG:O	1:m:376:LYS:HG2	2.22	0.40
1:O:334:TYR:CE2	1:O:354:ALA:HB2	2.56	0.40
1:P:516:LYS:HE3	1:P:518:ILE:HD11	2.03	0.40
1:Q:501:GLY:HA2	1:Q:504:ARG:CD	2.51	0.40
1:S:37:HIS:NE2	1:d:34:GLY:N	2.70	0.40
1:T:376:LYS:HG2	1:l:317:ARG:O	2.22	0.40
1:V:318:SER:HB2	1:e:376:LYS:HZ1	1.86	0.40
1:V:342:HIS:CE1	1:X:406:ASN:CG	3.00	0.40
1:W:55:VAL:HG21	1:W:134:CYS:SG	2.61	0.40
1:W:501:GLY:HA2	1:W:504:ARG:CD	2.51	0.40
1:Y:450:PRO:HB2	1:Y:451:TRP:CE2	2.57	0.40
1:Z:352:PRO:HG3	1:3:314:TRP:CZ2	2.56	0.40
1:c:40:GLY:HA3	1:c:147:ASP:OD2	2.20	0.40
1:c:448:GLN:HB3	1:c:558:PHE:HE1	1.85	0.40
1:c:450:PRO:HB2	1:c:451:TRP:CE2	2.57	0.40
1:e:450:PRO:HB2	1:e:451:TRP:CE2	2.57	0.40
1:f:115:PRO:HG3	1:f:144:GLN:NE2	2.36	0.40
1:g:75:TYR:CE1	1:g:108:THR:HG23	2.56	0.40
1:g:352:PRO:HG3	1:h:314:TRP:CZ2	2.56	0.40
1:h:55:VAL:HG21	1:h:134:CYS:SG	2.61	0.40
1:j:276:GLN:NE2	1:j:562:ARG:HH12	2.15	0.40
1:k:334:TYR:CE2	1:k:354:ALA:HB2	2.56	0.40
1:k:501:GLY:HA2	1:k:504:ARG:CD	2.51	0.40
1:l:540:GLY:O	1:l:541:THR:OG1	2.28	0.40
1:n:55:VAL:HG21	1:n:134:CYS:SG	2.61	0.40
1:n:334:TYR:CE2	1:n:354:ALA:HB2	2.56	0.40
1:n:448:GLN:HB3	1:n:558:PHE:HE1	1.85	0.40
1:o:314:TRP:CZ2	1:p:352:PRO:HG3	2.56	0.40
1:o:334:TYR:CE2	1:o:354:ALA:HB2	2.57	0.40
1:q:421:VAL:HG11	1:r:92:LEU:HD13	2.03	0.40
1:r:55:VAL:HG21	1:r:134:CYS:SG	2.61	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:t:259:THR:HG21	1:6:172:THR:CG2	2.51	0.40
1:u:404:GLN:NE2	1:u:443:ASP:N	2.58	0.40
1:w:40:GLY:HA3	1:w:147:ASP:OD2	2.20	0.40
1:w:334:TYR:CE2	1:w:354:ALA:HB2	2.56	0.40
1:w:501:GLY:HA2	1:w:504:ARG:CD	2.51	0.40
1:y:75:TYR:CE1	1:y:108:THR:HG23	2.56	0.40
1:1:283:SER:H	1:1:286:HIS:CD2	2.39	0.40
1:2:115:PRO:HG3	1:2:144:GLN:NE2	2.35	0.40
1:2:450:PRO:HB2	1:2:451:TRP:CE2	2.57	0.40
1:4:75:TYR:CE1	1:4:108:THR:HG23	2.56	0.40
1:4:283:SER:H	1:4:286:HIS:CD2	2.39	0.40
1:5:55:VAL:HG21	1:5:134:CYS:SG	2.61	0.40
1:7:55:VAL:HG21	1:7:134:CYS:SG	2.61	0.40
1:7:404:GLN:NE2	1:7:443:ASP:H	2.07	0.40
1:8:131:THR:HA	1:8:277:LEU:HD23	2.02	0.40
1:8:450:PRO:HB2	1:8:451:TRP:CE2	2.57	0.40
1:A:315:GLY:N	1:A:417:LEU:HD23	2.33	0.40
1:A:334:TYR:CE2	1:A:354:ALA:HB2	2.56	0.40
1:A:463:HIS:HB3	1:I:442:VAL:HG23	2.04	0.40
1:C:131:THR:HA	1:C:277:LEU:HD23	2.02	0.40
1:C:352:PRO:HG3	1:M:314:TRP:CZ2	2.56	0.40
1:E:40:GLY:HA3	1:E:147:ASP:OD2	2.20	0.40
1:E:334:TYR:CE2	1:E:354:ALA:HB2	2.56	0.40
1:E:501:GLY:HA2	1:E:504:ARG:CD	2.51	0.40
1:F:50:TYR:OH	1:F:129:GLN:NE2	2.52	0.40
1:G:259:THR:HG21	1:W:172:THR:CG2	2.51	0.40
1:G:406:ASN:CG	1:I:342:HIS:CE1	2.99	0.40
1:H:320:PRO:C	1:H:322:SER:H	2.30	0.40
1:H:406:ASN:CG	1:W:342:HIS:CE1	3.00	0.40
1:I:75:TYR:CE1	1:I:108:THR:HG23	2.56	0.40
1:I:501:GLY:HA2	1:I:504:ARG:CD	2.51	0.40
1:J:115:PRO:HG3	1:J:144:GLN:NE2	2.35	0.40
1:J:450:PRO:HB2	1:J:451:TRP:CE2	2.57	0.40
1:M:55:VAL:HG21	1:M:134:CYS:SG	2.61	0.40
1:O:450:PRO:HB2	1:O:451:TRP:CE2	2.57	0.40
1:P:55:VAL:HG21	1:P:134:CYS:SG	2.61	0.40
1:Q:55:VAL:HG21	1:Q:134:CYS:SG	2.61	0.40
1:R:334:TYR:CE2	1:R:354:ALA:HB2	2.56	0.40
1:R:421:VAL:HG11	1:S:92:LEU:HD13	2.03	0.40
1:R:450:PRO:HB2	1:R:451:TRP:CE2	2.57	0.40
1:R:501:GLY:HA2	1:R:504:ARG:CD	2.51	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:T:334:TYR:CE2	1:T:354:ALA:HB2	2.56	0.40
1:T:450:PRO:HB2	1:T:451:TRP:CE2	2.57	0.40
1:U:351:ASN:HA	1:U:352:PRO:HD3	1.96	0.40
1:V:314:TRP:CZ2	1:e:352:PRO:HG3	2.56	0.40
1:W:75:TYR:CE1	1:W:108:THR:HG23	2.56	0.40
1:Y:55:VAL:HG21	1:Y:134:CYS:SG	2.61	0.40
1:Y:115:PRO:HG3	1:Y:144:GLN:NE2	2.36	0.40
1:Z:34:GLY:N	1:a:37:HIS:NE2	2.69	0.40
1:Z:450:PRO:HB2	1:Z:451:TRP:CE2	2.57	0.40
1:a:314:TRP:CZ2	1:8:352:PRO:HG3	2.56	0.40
1:a:406:ASN:CG	1:8:342:HIS:CE1	3.00	0.40
1:b:334:TYR:CE2	1:b:354:ALA:HB2	2.56	0.40
1:c:352:PRO:HG3	1:p:314:TRP:CZ2	2.56	0.40
1:c:376:LYS:HZ1	1:p:318:SER:HB2	1.87	0.40
1:d:55:VAL:HG21	1:d:134:CYS:SG	2.61	0.40
1:d:334:TYR:CE2	1:d:354:ALA:HB2	2.56	0.40
1:e:334:TYR:CE2	1:e:354:ALA:HB2	2.56	0.40
1:h:128:GLN:CG	1:k:531:LEU:CD1	2.92	0.40
1:i:450:PRO:HB2	1:i:451:TRP:CE2	2.57	0.40
1:j:55:VAL:HG21	1:j:134:CYS:SG	2.61	0.40
1:l:283:SER:H	1:l:286:HIS:CD2	2.39	0.40
1:l:334:TYR:CE2	1:l:354:ALA:HB2	2.56	0.40
1:l:450:PRO:HB2	1:l:451:TRP:CE2	2.57	0.40
1:m:317:ARG:O	1:n:376:LYS:HG2	2.21	0.40
1:m:334:TYR:CE2	1:m:354:ALA:HB2	2.56	0.40
1:o:406:ASN:CG	1:p:342:HIS:CE1	3.00	0.40
1:o:407:TRP:CD1	1:o:409:PRO:HD2	2.57	0.40
1:p:34:GLY:N	1:6:37:HIS:NE2	2.69	0.40
1:q:334:TYR:CE2	1:q:354:ALA:HB2	2.56	0.40
1:q:450:PRO:HB2	1:q:451:TRP:CE2	2.57	0.40
1:q:501:GLY:HA2	1:q:504:ARG:CD	2.51	0.40
1:t:172:THR:CG2	1:y:259:THR:HG21	2.51	0.40
1:v:501:GLY:HA2	1:v:504:ARG:CD	2.51	0.40
1:x:450:PRO:HB2	1:x:451:TRP:CE2	2.57	0.40
1:x:501:GLY:HA2	1:x:504:ARG:CD	2.51	0.40
1:y:55:VAL:HG21	1:y:134:CYS:SG	2.61	0.40
1:z:115:PRO:HG3	1:z:144:GLN:NE2	2.35	0.40
1:1:501:GLY:HA2	1:1:504:ARG:CD	2.51	0.40
1:2:296:PRO:HG2	1:4:550:GLU:HB2	2.04	0.40
1:3:37:HIS:NE2	1:8:34:GLY:N	2.69	0.40
1:4:447:ILE:O	1:4:561:GLY:N	2.41	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:5:172:THR:CG2	1:8:259:THR:HG21	2.51	0.40
1:5:320:PRO:C	1:5:322:SER:H	2.30	0.40
1:5:407:TRP:CD1	1:5:409:PRO:HD2	2.57	0.40
1:6:75:TYR:CE1	1:6:108:THR:HG23	2.56	0.40
1:7:450:PRO:HB2	1:7:451:TRP:CE2	2.57	0.40
1:8:75:TYR:CE1	1:8:108:THR:HG23	2.56	0.40
1:C:450:PRO:HB2	1:C:451:TRP:CE2	2.57	0.40
1:C:516:LYS:HE3	1:C:518:ILE:HD11	2.03	0.40
1:D:501:GLY:HA2	1:D:504:ARG:CD	2.51	0.40
1:E:450:PRO:HB2	1:E:451:TRP:CE2	2.57	0.40
1:F:55:VAL:HG21	1:F:134:CYS:SG	2.61	0.40
1:G:447:ILE:O	1:G:561:GLY:N	2.41	0.40
1:H:37:HIS:NE2	1:I:34:GLY:N	2.70	0.40
1:H:407:TRP:CD1	1:H:409:PRO:HD2	2.57	0.40
1:J:334:TYR:CE2	1:J:354:ALA:HB2	2.56	0.40
1:K:320:PRO:C	1:K:322:SER:H	2.30	0.40
1:K:352:PRO:HG3	1:8:314:TRP:CZ2	2.56	0.40
1:N:55:VAL:HG21	1:N:134:CYS:SG	2.61	0.40
1:O:283:SER:H	1:O:286:HIS:CD2	2.39	0.40
1:O:342:HIS:CE1	1:n:406:ASN:CG	3.00	0.40
1:O:406:ASN:CG	1:m:342:HIS:CE1	3.00	0.40
1:P:447:ILE:O	1:P:561:GLY:N	2.41	0.40
1:R:516:LYS:HE3	1:R:518:ILE:HD11	2.03	0.40
1:T:317:ARG:O	1:d:376:LYS:HG2	2.21	0.40
1:T:342:HIS:CE1	1:l:406:ASN:CG	3.00	0.40
1:X:407:TRP:CD1	1:X:409:PRO:HD2	2.57	0.40
1:Y:320:PRO:C	1:Y:322:SER:H	2.30	0.40
1:Z:109:PRO:HA	1:Z:209:GLN:NE2	2.34	0.40
1:Z:342:HIS:CE1	1:3:406:ASN:CG	3.00	0.40
1:a:55:VAL:HG21	1:a:134:CYS:SG	2.61	0.40
1:b:55:VAL:HG21	1:b:134:CYS:SG	2.61	0.40
1:b:315:GLY:N	1:b:417:LEU:HD23	2.33	0.40
1:c:318:SER:HB2	1:o:376:LYS:HZ1	1.86	0.40
1:c:334:TYR:CE2	1:c:354:ALA:HB2	2.56	0.40
1:d:448:GLN:HB3	1:d:558:PHE:HE1	1.85	0.40
1:f:55:VAL:HG21	1:f:134:CYS:SG	2.61	0.40
1:f:334:TYR:CE2	1:f:354:ALA:HB2	2.56	0.40
1:g:450:PRO:HB2	1:g:451:TRP:CE2	2.57	0.40
1:g:516:LYS:HE3	1:g:518:ILE:HD11	2.03	0.40
1:i:50:TYR:OH	1:i:129:GLN:NE2	2.52	0.40
1:i:55:VAL:HG21	1:i:134:CYS:SG	2.61	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:i:317:ARG:O	1:j:376:LYS:HG2	2.21	0.40
1:k:109:PRO:HA	1:k:209:GLN:NE2	2.34	0.40
1:k:450:PRO:HB2	1:k:451:TRP:CE2	2.57	0.40
1:l:75:TYR:CE1	1:l:108:THR:HG23	2.56	0.40
1:m:320:PRO:C	1:m:322:SER:H	2.30	0.40
1:m:450:PRO:HB2	1:m:451:TRP:CE2	2.57	0.40
1:n:50:TYR:OH	1:n:129:GLN:NE2	2.52	0.40
1:o:317:ARG:O	1:p:376:LYS:HG2	2.21	0.40
1:q:516:LYS:HE3	1:q:518:ILE:HD11	2.03	0.40
1:s:516:LYS:HE3	1:s:518:ILE:HD11	2.03	0.40
1:t:406:ASN:CG	1:u:342:HIS:CE1	2.99	0.40
1:t:501:GLY:HA2	1:t:504:ARG:CD	2.51	0.40
1:u:294:ASP:HA	1:u:295:PRO:HD3	1.97	0.40
1:v:334:TYR:CE2	1:v:354:ALA:HB2	2.56	0.40
1:y:50:TYR:OH	1:y:129:GLN:NE2	2.52	0.40
1:1:75:TYR:CE1	1:1:108:THR:HG23	2.56	0.40
1:1:540:GLY:O	1:1:541:THR:OG1	2.28	0.40
1:2:516:LYS:HE3	1:2:518:ILE:HD11	2.03	0.40
1:4:320:PRO:C	1:4:322:SER:H	2.30	0.40
1:5:40:GLY:HA3	1:5:147:ASP:OD2	2.20	0.40
1:5:406:ASN:CG	1:6:342:HIS:CE1	3.00	0.40
1:6:334:TYR:CE2	1:6:354:ALA:HB2	2.56	0.40
1:6:431:ASP:HB2	1:6:433:HIS:CD2	2.57	0.40
1:7:50:TYR:OH	1:7:129:GLN:NE2	2.52	0.40
1:7:115:PRO:HG3	1:7:144:GLN:NE2	2.36	0.40
1:8:109:PRO:HA	1:8:209:GLN:NE2	2.34	0.40
1:A:37:HIS:NE2	1:E:34:GLY:N	2.69	0.40
1:A:115:PRO:HG3	1:A:144:GLN:NE2	2.35	0.40
1:B:406:ASN:CG	1:J:342:HIS:CE1	3.00	0.40
1:B:501:GLY:HA2	1:B:504:ARG:CD	2.51	0.40
1:C:342:HIS:CE1	1:M:406:ASN:CG	3.00	0.40
1:C:407:TRP:CD1	1:C:409:PRO:HD2	2.57	0.40
1:D:342:HIS:CE1	1:P:406:ASN:CG	3.00	0.40
1:D:450:PRO:HB2	1:D:451:TRP:CE2	2.57	0.40
1:F:131:THR:HA	1:F:277:LEU:HD23	2.02	0.40
1:G:404:GLN:NE2	1:G:443:ASP:H	2.07	0.40
1:G:407:TRP:CD1	1:G:409:PRO:HD2	2.57	0.40
1:G:431:ASP:HB2	1:G:433:HIS:CD2	2.57	0.40
1:G:501:GLY:HA2	1:G:504:ARG:CD	2.51	0.40
1:H:40:GLY:HA3	1:H:147:ASP:OD2	2.20	0.40
1:H:172:THR:CG2	1:Z:259:THR:HG21	2.51	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:131:THR:HA	1:I:277:LEU:HD23	2.02	0.40
1:J:516:LYS:HE3	1:J:518:ILE:HD11	2.03	0.40
1:K:406:ASN:CG	1:a:342:HIS:CE1	3.00	0.40
1:L:334:TYR:CE2	1:L:354:ALA:HB2	2.56	0.40
1:M:431:ASP:HB2	1:M:433:HIS:CD2	2.57	0.40
1:N:50:TYR:OH	1:N:129:GLN:NE2	2.52	0.40
1:N:317:ARG:O	1:P:376:LYS:HG2	2.21	0.40
1:N:450:PRO:HB2	1:N:451:TRP:CE2	2.57	0.40
1:N:540:GLY:O	1:N:541:THR:OG1	2.28	0.40
1:O:75:TYR:CE1	1:O:108:THR:HG23	2.56	0.40
1:R:352:PRO:HG3	1:U:314:TRP:CZ2	2.56	0.40
1:R:407:TRP:CD1	1:R:409:PRO:HD2	2.57	0.40
1:R:431:ASP:HB2	1:R:433:HIS:CD2	2.57	0.40
1:T:320:PRO:C	1:T:322:SER:H	2.30	0.40
1:T:406:ASN:CG	1:d:342:HIS:CE1	3.00	0.40
1:U:401:ILE:HD13	1:U:401:ILE:HG21	1.89	0.40
1:U:516:LYS:HE3	1:U:518:ILE:HD11	2.03	0.40
1:V:450:PRO:HB2	1:V:451:TRP:CE2	2.57	0.40
1:W:334:TYR:CE2	1:W:354:ALA:HB2	2.56	0.40
1:W:431:ASP:HB2	1:W:433:HIS:CD2	2.57	0.40
1:X:376:LYS:HZ1	1:e:318:SER:HB2	1.86	0.40
1:Z:75:TYR:CE1	1:Z:108:THR:HG23	2.56	0.40
1:Z:334:TYR:CE2	1:Z:354:ALA:HB2	2.56	0.40
1:Z:431:ASP:HB2	1:Z:433:HIS:CD2	2.57	0.40
1:Z:463:HIS:HB3	1:3:442:VAL:HG23	2.04	0.40
1:Z:501:GLY:HA2	1:Z:504:ARG:CD	2.51	0.40
1:b:431:ASP:HB2	1:b:433:HIS:CD2	2.57	0.40
1:b:450:PRO:HB2	1:b:451:TRP:CE2	2.57	0.40
1:d:406:ASN:CG	1:l:342:HIS:CE1	3.00	0.40
1:f:450:PRO:HB2	1:f:451:TRP:CE2	2.57	0.40
1:g:131:THR:HA	1:g:277:LEU:HD23	2.02	0.40
1:g:342:HIS:CE1	1:h:406:ASN:CG	3.00	0.40
1:h:431:ASP:HB2	1:h:433:HIS:CD2	2.57	0.40
1:j:351:ASN:HA	1:j:352:PRO:HD3	1.95	0.40
1:j:406:ASN:CG	1:k:342:HIS:CE1	3.00	0.40
1:m:406:ASN:CG	1:n:342:HIS:CE1	3.00	0.40
1:o:516:LYS:HE3	1:o:518:ILE:HD11	2.03	0.40
1:q:55:VAL:HG21	1:q:134:CYS:SG	2.61	0.40
1:q:407:TRP:CD1	1:q:409:PRO:HD2	2.57	0.40
1:q:431:ASP:HB2	1:q:433:HIS:CD2	2.57	0.40
1:r:406:ASN:CG	1:s:342:HIS:CE1	3.00	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:s:55:VAL:HG21	1:s:134:CYS:SG	2.61	0.40
1:s:320:PRO:C	1:s:322:SER:H	2.30	0.40
1:t:407:TRP:CD1	1:t:409:PRO:HD2	2.57	0.40
1:t:431:ASP:HB2	1:t:433:HIS:CD2	2.57	0.40
1:u:34:GLY:N	1:5:37:HIS:NE2	2.70	0.40
1:u:37:HIS:NE2	1:2:34:GLY:N	2.69	0.40
1:u:75:TYR:CE1	1:u:108:THR:HG23	2.56	0.40
1:u:131:THR:HA	1:u:277:LEU:HD23	2.02	0.40
1:u:442:VAL:HG23	1:v:463:HIS:HB3	2.04	0.40
1:v:516:LYS:HE3	1:v:518:ILE:HD11	2.03	0.40
1:w:450:PRO:HB2	1:w:451:TRP:CE2	2.57	0.40
1:z:326:ARG:HH21	1:1:192:MET:HG3	1.87	0.40
1:1:115:PRO:HG3	1:1:144:GLN:NE2	2.35	0.40
1:2:334:TYR:CE2	1:2:354:ALA:HB2	2.56	0.40
1:3:342:HIS:CE1	1:4:406:ASN:CG	3.00	0.40
1:4:55:VAL:HG21	1:4:134:CYS:SG	2.61	0.40
1:5:137:VAL:HG12	1:5:277:LEU:HD11	2.02	0.40
1:5:450:PRO:HB2	1:5:451:TRP:CE2	2.57	0.40
1:7:320:PRO:C	1:7:322:SER:H	2.30	0.40
1:8:334:TYR:CE2	1:8:354:ALA:HB2	2.56	0.40
1:8:431:ASP:HB2	1:8:433:HIS:CD2	2.57	0.40
1:A:55:VAL:HG21	1:A:134:CYS:SG	2.61	0.40
1:A:450:PRO:HB2	1:A:451:TRP:CE2	2.57	0.40
1:A:516:LYS:HE3	1:A:518:ILE:HD11	2.03	0.40
1:B:75:TYR:CE1	1:B:108:THR:HG23	2.56	0.40
1:B:326:ARG:HH21	1:J:192:MET:HG3	1.86	0.40
1:B:352:PRO:HG3	1:L:314:TRP:CZ2	2.56	0.40
1:B:376:LYS:HG2	1:L:317:ARG:O	2.20	0.40
1:B:421:VAL:HG11	1:J:92:LEU:HD13	2.03	0.40
1:B:442:VAL:HG23	1:J:463:HIS:HB3	2.03	0.40
1:B:531:LEU:CD1	1:I:128:GLN:CG	2.93	0.40
1:D:34:GLY:N	1:E:37:HIS:NE2	2.70	0.40
1:E:320:PRO:C	1:E:322:SER:H	2.30	0.40
1:F:342:HIS:CE1	1:Q:406:ASN:CG	3.00	0.40
1:F:431:ASP:HB2	1:F:433:HIS:CD2	2.57	0.40
1:F:450:PRO:HB2	1:F:451:TRP:CE2	2.57	0.40
1:G:334:TYR:CE2	1:G:354:ALA:HB2	2.56	0.40
1:H:137:VAL:HG12	1:H:277:LEU:HD11	2.02	0.40
1:H:450:PRO:HB2	1:H:451:TRP:CE2	2.57	0.40
1:J:50:TYR:OH	1:J:129:GLN:NE2	2.52	0.40
1:J:320:PRO:C	1:J:322:SER:H	2.30	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:55:VAL:HG21	1:K:134:CYS:SG	2.61	0.40
1:K:315:GLY:N	1:K:417:LEU:HD23	2.33	0.40
1:K:463:HIS:HB3	1:8:442:VAL:HG23	2.04	0.40
1:L:109:PRO:HA	1:L:209:GLN:NE2	2.34	0.40
1:L:115:PRO:HG3	1:L:144:GLN:NE2	2.36	0.40
1:M:334:TYR:CE2	1:M:354:ALA:HB2	2.57	0.40
1:N:109:PRO:HA	1:N:209:GLN:NE2	2.34	0.40
1:N:315:GLY:N	1:N:417:LEU:HD23	2.33	0.40
1:U:55:VAL:HG21	1:U:134:CYS:SG	2.61	0.40
1:U:320:PRO:C	1:U:322:SER:H	2.30	0.40
1:V:316:ASP:O	1:e:376:LYS:NZ	2.55	0.40
1:V:376:LYS:HG2	1:X:317:ARG:O	2.21	0.40
1:V:406:ASN:CG	1:e:342:HIS:CE1	2.99	0.40
1:V:501:GLY:HA2	1:V:504:ARG:CD	2.51	0.40
1:X:450:PRO:HB2	1:X:451:TRP:CE2	2.57	0.40
1:X:516:LYS:HE3	1:X:518:ILE:HD11	2.03	0.40
1:Y:50:TYR:OH	1:Y:129:GLN:NE2	2.52	0.40
1:Y:407:TRP:CD1	1:Y:409:PRO:HD2	2.57	0.40
1:Z:314:TRP:CZ2	1:4:352:PRO:HG3	2.56	0.40
1:Z:442:VAL:HG23	1:4:463:HIS:HB3	2.04	0.40
1:a:442:VAL:HG23	1:8:463:HIS:HB3	2.04	0.40
1:b:351:ASN:HA	1:b:352:PRO:HD3	1.95	0.40
1:c:55:VAL:HG21	1:c:134:CYS:SG	2.61	0.40
1:c:320:PRO:C	1:c:322:SER:H	2.30	0.40
1:c:431:ASP:HB2	1:c:433:HIS:CD2	2.57	0.40
1:d:50:TYR:OH	1:d:129:GLN:NE2	2.52	0.40
1:d:540:GLY:O	1:d:541:THR:OG1	2.28	0.40
1:e:40:GLY:HA3	1:e:147:ASP:OD2	2.20	0.40
1:e:55:VAL:HG21	1:e:134:CYS:SG	2.61	0.40
1:e:431:ASP:HB2	1:e:433:HIS:CD2	2.57	0.40
1:f:431:ASP:HB2	1:f:433:HIS:CD2	2.57	0.40
1:g:407:TRP:CD1	1:g:409:PRO:HD2	2.57	0.40
1:i:315:GLY:N	1:i:417:LEU:HD23	2.33	0.40
1:j:407:TRP:CD1	1:j:409:PRO:HD2	2.57	0.40
1:o:450:PRO:HB2	1:o:451:TRP:CE2	2.57	0.40
1:q:352:PRO:HG3	1:s:314:TRP:CZ2	2.56	0.40
1:s:351:ASN:HA	1:s:352:PRO:HD3	1.96	0.40
1:t:342:HIS:CE1	1:v:406:ASN:CG	3.00	0.40
1:u:406:ASN:CG	1:v:342:HIS:CE1	3.00	0.40
1:v:37:HIS:NE2	1:w:34:GLY:N	2.69	0.40
1:v:115:PRO:HG3	1:v:144:GLN:NE2	2.35	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:v:351:ASN:HA	1:v:352:PRO:HD3	1.95	0.40
1:w:320:PRO:C	1:w:322:SER:H	2.30	0.40
1:y:131:THR:HA	1:y:277:LEU:HD23	2.02	0.40
1:y:450:PRO:HB2	1:y:451:TRP:CE2	2.57	0.40
1:z:316:ASP:O	1:1:376:LYS:NZ	2.55	0.40
1:z:334:TYR:CE2	1:z:354:ALA:HB2	2.56	0.40
1:z:450:PRO:HB2	1:z:451:TRP:CE2	2.57	0.40
1:1:442:VAL:HG23	1:2:463:HIS:HB3	2.03	0.40
1:1:450:PRO:HB2	1:1:451:TRP:CE2	2.57	0.40
1:2:37:HIS:NE2	1:3:34:GLY:N	2.70	0.40
1:2:320:PRO:C	1:2:322:SER:H	2.30	0.40
1:3:55:VAL:HG21	1:3:134:CYS:SG	2.61	0.40
1:4:315:GLY:N	1:4:417:LEU:HD23	2.33	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	545/707 (77%)	510 (94%)	35 (6%)	0	100	100
1	2	545/707 (77%)	510 (94%)	35 (6%)	0	100	100
1	3	545/707 (77%)	510 (94%)	35 (6%)	0	100	100
1	4	545/707 (77%)	510 (94%)	35 (6%)	0	100	100
1	5	545/707 (77%)	510 (94%)	35 (6%)	0	100	100
1	6	545/707 (77%)	510 (94%)	35 (6%)	0	100	100
1	7	545/707 (77%)	510 (94%)	35 (6%)	0	100	100
1	8	545/707 (77%)	510 (94%)	35 (6%)	0	100	100
1	A	545/707 (77%)	510 (94%)	35 (6%)	0	100	100
1	B	545/707 (77%)	510 (94%)	35 (6%)	0	100	100

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	C	545/707 (77%)	510 (94%)	35 (6%)	0	100	100
1	D	545/707 (77%)	510 (94%)	35 (6%)	0	100	100
1	E	545/707 (77%)	510 (94%)	35 (6%)	0	100	100
1	F	545/707 (77%)	510 (94%)	35 (6%)	0	100	100
1	G	545/707 (77%)	510 (94%)	35 (6%)	0	100	100
1	H	545/707 (77%)	510 (94%)	35 (6%)	0	100	100
1	I	545/707 (77%)	510 (94%)	35 (6%)	0	100	100
1	J	545/707 (77%)	510 (94%)	35 (6%)	0	100	100
1	K	545/707 (77%)	510 (94%)	35 (6%)	0	100	100
1	L	545/707 (77%)	510 (94%)	35 (6%)	0	100	100
1	M	545/707 (77%)	510 (94%)	35 (6%)	0	100	100
1	N	545/707 (77%)	510 (94%)	35 (6%)	0	100	100
1	O	545/707 (77%)	510 (94%)	35 (6%)	0	100	100
1	P	545/707 (77%)	510 (94%)	35 (6%)	0	100	100
1	Q	545/707 (77%)	510 (94%)	35 (6%)	0	100	100
1	R	545/707 (77%)	510 (94%)	35 (6%)	0	100	100
1	S	545/707 (77%)	510 (94%)	35 (6%)	0	100	100
1	T	545/707 (77%)	510 (94%)	35 (6%)	0	100	100
1	U	545/707 (77%)	510 (94%)	35 (6%)	0	100	100
1	V	545/707 (77%)	510 (94%)	35 (6%)	0	100	100
1	W	545/707 (77%)	510 (94%)	35 (6%)	0	100	100
1	X	545/707 (77%)	510 (94%)	35 (6%)	0	100	100
1	Y	545/707 (77%)	510 (94%)	35 (6%)	0	100	100
1	Z	545/707 (77%)	510 (94%)	35 (6%)	0	100	100
1	a	545/707 (77%)	510 (94%)	35 (6%)	0	100	100
1	b	545/707 (77%)	510 (94%)	35 (6%)	0	100	100
1	c	545/707 (77%)	510 (94%)	35 (6%)	0	100	100
1	d	545/707 (77%)	510 (94%)	35 (6%)	0	100	100
1	e	545/707 (77%)	510 (94%)	35 (6%)	0	100	100
1	f	545/707 (77%)	510 (94%)	35 (6%)	0	100	100
1	g	545/707 (77%)	510 (94%)	35 (6%)	0	100	100

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	h	545/707 (77%)	510 (94%)	35 (6%)	0	100	100
1	i	545/707 (77%)	510 (94%)	35 (6%)	0	100	100
1	j	545/707 (77%)	510 (94%)	35 (6%)	0	100	100
1	k	545/707 (77%)	510 (94%)	35 (6%)	0	100	100
1	l	545/707 (77%)	510 (94%)	35 (6%)	0	100	100
1	m	545/707 (77%)	510 (94%)	35 (6%)	0	100	100
1	n	545/707 (77%)	510 (94%)	35 (6%)	0	100	100
1	o	545/707 (77%)	510 (94%)	35 (6%)	0	100	100
1	p	545/707 (77%)	510 (94%)	35 (6%)	0	100	100
1	q	545/707 (77%)	510 (94%)	35 (6%)	0	100	100
1	r	545/707 (77%)	510 (94%)	35 (6%)	0	100	100
1	s	545/707 (77%)	510 (94%)	35 (6%)	0	100	100
1	t	545/707 (77%)	510 (94%)	35 (6%)	0	100	100
1	u	545/707 (77%)	510 (94%)	35 (6%)	0	100	100
1	v	545/707 (77%)	510 (94%)	35 (6%)	0	100	100
1	w	545/707 (77%)	510 (94%)	35 (6%)	0	100	100
1	x	545/707 (77%)	510 (94%)	35 (6%)	0	100	100
1	y	545/707 (77%)	510 (94%)	35 (6%)	0	100	100
1	z	545/707 (77%)	510 (94%)	35 (6%)	0	100	100
All	All	32700/42420 (77%)	30600 (94%)	2100 (6%)	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%)	473 (100%)	1 (0%)	87	94
1	2	474/609 (78%)	473 (100%)	1 (0%)	87	94

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
1	3	474/609 (78%)	473 (100%)	1 (0%)	87	94
1	4	474/609 (78%)	473 (100%)	1 (0%)	87	94
1	5	474/609 (78%)	473 (100%)	1 (0%)	87	94
1	6	474/609 (78%)	473 (100%)	1 (0%)	87	94
1	7	474/609 (78%)	473 (100%)	1 (0%)	87	94
1	8	474/609 (78%)	473 (100%)	1 (0%)	87	94
1	A	474/609 (78%)	473 (100%)	1 (0%)	87	94
1	B	474/609 (78%)	473 (100%)	1 (0%)	87	94
1	C	474/609 (78%)	473 (100%)	1 (0%)	87	94
1	D	474/609 (78%)	473 (100%)	1 (0%)	87	94
1	E	474/609 (78%)	473 (100%)	1 (0%)	87	94
1	F	474/609 (78%)	473 (100%)	1 (0%)	87	94
1	G	474/609 (78%)	473 (100%)	1 (0%)	87	94
1	H	474/609 (78%)	473 (100%)	1 (0%)	87	94
1	I	474/609 (78%)	473 (100%)	1 (0%)	87	94
1	J	474/609 (78%)	473 (100%)	1 (0%)	87	94
1	K	474/609 (78%)	473 (100%)	1 (0%)	87	94
1	L	474/609 (78%)	473 (100%)	1 (0%)	87	94
1	M	474/609 (78%)	473 (100%)	1 (0%)	87	94
1	N	474/609 (78%)	473 (100%)	1 (0%)	87	94
1	O	474/609 (78%)	473 (100%)	1 (0%)	87	94
1	P	474/609 (78%)	473 (100%)	1 (0%)	87	94
1	Q	474/609 (78%)	473 (100%)	1 (0%)	87	94
1	R	474/609 (78%)	473 (100%)	1 (0%)	87	94
1	S	474/609 (78%)	473 (100%)	1 (0%)	87	94
1	T	474/609 (78%)	473 (100%)	1 (0%)	87	94
1	U	474/609 (78%)	473 (100%)	1 (0%)	87	94
1	V	474/609 (78%)	473 (100%)	1 (0%)	87	94
1	W	474/609 (78%)	473 (100%)	1 (0%)	87	94
1	X	474/609 (78%)	473 (100%)	1 (0%)	87	94
1	Y	474/609 (78%)	473 (100%)	1 (0%)	87	94

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
1	Z	474/609 (78%)	473 (100%)	1 (0%)	87	94
1	a	474/609 (78%)	473 (100%)	1 (0%)	87	94
1	b	474/609 (78%)	473 (100%)	1 (0%)	87	94
1	c	474/609 (78%)	473 (100%)	1 (0%)	87	94
1	d	474/609 (78%)	473 (100%)	1 (0%)	87	94
1	e	474/609 (78%)	473 (100%)	1 (0%)	87	94
1	f	474/609 (78%)	473 (100%)	1 (0%)	87	94
1	g	474/609 (78%)	473 (100%)	1 (0%)	87	94
1	h	474/609 (78%)	473 (100%)	1 (0%)	87	94
1	i	474/609 (78%)	473 (100%)	1 (0%)	87	94
1	j	474/609 (78%)	473 (100%)	1 (0%)	87	94
1	k	474/609 (78%)	473 (100%)	1 (0%)	87	94
1	l	474/609 (78%)	473 (100%)	1 (0%)	87	94
1	m	474/609 (78%)	473 (100%)	1 (0%)	87	94
1	n	474/609 (78%)	473 (100%)	1 (0%)	87	94
1	o	474/609 (78%)	473 (100%)	1 (0%)	87	94
1	p	474/609 (78%)	473 (100%)	1 (0%)	87	94
1	q	474/609 (78%)	473 (100%)	1 (0%)	87	94
1	r	474/609 (78%)	473 (100%)	1 (0%)	87	94
1	s	474/609 (78%)	473 (100%)	1 (0%)	87	94
1	t	474/609 (78%)	473 (100%)	1 (0%)	87	94
1	u	474/609 (78%)	473 (100%)	1 (0%)	87	94
1	v	474/609 (78%)	473 (100%)	1 (0%)	87	94
1	w	474/609 (78%)	473 (100%)	1 (0%)	87	94
1	x	474/609 (78%)	473 (100%)	1 (0%)	87	94
1	y	474/609 (78%)	473 (100%)	1 (0%)	87	94
1	z	474/609 (78%)	473 (100%)	1 (0%)	87	94
All	All	28440/36540 (78%)	28380 (100%)	60 (0%)	85	94

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

Mol	Chain	Res	Type
1	A	71	GLU

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Mol	Chain	Res	Type
1	B	71	GLU
1	C	71	GLU
1	D	71	GLU
1	E	71	GLU
1	F	71	GLU
1	G	71	GLU
1	H	71	GLU
1	I	71	GLU
1	J	71	GLU
1	K	71	GLU
1	L	71	GLU
1	M	71	GLU
1	N	71	GLU
1	O	71	GLU
1	P	71	GLU
1	Q	71	GLU
1	R	71	GLU
1	S	71	GLU
1	T	71	GLU
1	U	71	GLU
1	V	71	GLU
1	W	71	GLU
1	X	71	GLU
1	Y	71	GLU
1	Z	71	GLU
1	a	71	GLU
1	b	71	GLU
1	c	71	GLU
1	d	71	GLU
1	e	71	GLU
1	f	71	GLU
1	g	71	GLU
1	h	71	GLU
1	i	71	GLU
1	j	71	GLU
1	k	71	GLU
1	l	71	GLU
1	m	71	GLU
1	n	71	GLU
1	o	71	GLU
1	p	71	GLU
1	q	71	GLU

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Mol	Chain	Res	Type
1	r	71	GLU
1	s	71	GLU
1	t	71	GLU
1	u	71	GLU
1	v	71	GLU
1	w	71	GLU
1	x	71	GLU
1	y	71	GLU
1	z	71	GLU
1	1	71	GLU
1	2	71	GLU
1	3	71	GLU
1	4	71	GLU
1	5	71	GLU
1	6	71	GLU
1	7	71	GLU
1	8	71	GLU

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (1450) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	44	ASN
1	A	105	GLN
1	A	129	GLN
1	A	141	HIS
1	A	148	ASN
1	A	166	GLN
1	A	209	GLN
1	A	276	GLN
1	A	280	HIS
1	A	286	HIS
1	A	331	HIS
1	A	342	HIS
1	A	351	ASN
1	A	383	HIS
1	A	390	HIS
1	A	393	GLN
1	A	396	GLN
1	A	404	GLN
1	A	413	HIS
1	A	433	HIS
1	A	448	GLN

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Mol	Chain	Res	Type
1	A	463	HIS
1	A	470	HIS
1	B	44	ASN
1	B	103	HIS
1	B	105	GLN
1	B	129	GLN
1	B	141	HIS
1	B	148	ASN
1	B	166	GLN
1	B	209	GLN
1	B	276	GLN
1	B	280	HIS
1	B	286	HIS
1	B	331	HIS
1	B	342	HIS
1	B	351	ASN
1	B	383	HIS
1	B	390	HIS
1	B	393	GLN
1	B	396	GLN
1	B	404	GLN
1	B	413	HIS
1	B	433	HIS
1	B	448	GLN
1	B	463	HIS
1	B	470	HIS
1	C	44	ASN
1	C	105	GLN
1	C	129	GLN
1	C	141	HIS
1	C	148	ASN
1	C	166	GLN
1	C	209	GLN
1	C	276	GLN
1	C	280	HIS
1	C	286	HIS
1	C	331	HIS
1	C	342	HIS
1	C	351	ASN
1	C	383	HIS
1	C	390	HIS
1	C	393	GLN

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Mol	Chain	Res	Type
1	C	396	GLN
1	C	404	GLN
1	C	413	HIS
1	C	433	HIS
1	C	448	GLN
1	C	463	HIS
1	C	470	HIS
1	D	44	ASN
1	D	103	HIS
1	D	105	GLN
1	D	129	GLN
1	D	141	HIS
1	D	148	ASN
1	D	166	GLN
1	D	209	GLN
1	D	276	GLN
1	D	280	HIS
1	D	286	HIS
1	D	331	HIS
1	D	342	HIS
1	D	351	ASN
1	D	383	HIS
1	D	390	HIS
1	D	393	GLN
1	D	396	GLN
1	D	404	GLN
1	D	413	HIS
1	D	433	HIS
1	D	448	GLN
1	D	463	HIS
1	D	470	HIS
1	E	44	ASN
1	E	105	GLN
1	E	129	GLN
1	E	141	HIS
1	E	148	ASN
1	E	166	GLN
1	E	209	GLN
1	E	276	GLN
1	E	280	HIS
1	E	286	HIS
1	E	331	HIS

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Mol	Chain	Res	Type
1	E	342	HIS
1	E	351	ASN
1	E	383	HIS
1	E	390	HIS
1	E	393	GLN
1	E	396	GLN
1	E	404	GLN
1	E	413	HIS
1	E	433	HIS
1	E	448	GLN
1	E	463	HIS
1	E	470	HIS
1	F	44	ASN
1	F	103	HIS
1	F	105	GLN
1	F	129	GLN
1	F	141	HIS
1	F	148	ASN
1	F	166	GLN
1	F	209	GLN
1	F	276	GLN
1	F	280	HIS
1	F	286	HIS
1	F	331	HIS
1	F	342	HIS
1	F	351	ASN
1	F	383	HIS
1	F	390	HIS
1	F	393	GLN
1	F	396	GLN
1	F	404	GLN
1	F	413	HIS
1	F	433	HIS
1	F	448	GLN
1	F	463	HIS
1	F	470	HIS
1	G	44	ASN
1	G	103	HIS
1	G	105	GLN
1	G	129	GLN
1	G	141	HIS
1	G	148	ASN

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Mol	Chain	Res	Type
1	G	166	GLN
1	G	209	GLN
1	G	276	GLN
1	G	280	HIS
1	G	286	HIS
1	G	291	HIS
1	G	305	ASN
1	G	331	HIS
1	G	342	HIS
1	G	351	ASN
1	G	383	HIS
1	G	393	GLN
1	G	396	GLN
1	G	404	GLN
1	G	413	HIS
1	G	433	HIS
1	G	448	GLN
1	G	463	HIS
1	G	470	HIS
1	H	44	ASN
1	H	105	GLN
1	H	129	GLN
1	H	141	HIS
1	H	148	ASN
1	H	166	GLN
1	H	209	GLN
1	H	276	GLN
1	H	280	HIS
1	H	286	HIS
1	H	331	HIS
1	H	342	HIS
1	H	351	ASN
1	H	383	HIS
1	H	390	HIS
1	H	393	GLN
1	H	396	GLN
1	H	404	GLN
1	H	413	HIS
1	H	433	HIS
1	H	448	GLN
1	H	463	HIS
1	H	470	HIS

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Mol	Chain	Res	Type
1	I	44	ASN
1	I	103	HIS
1	I	105	GLN
1	I	129	GLN
1	I	141	HIS
1	I	148	ASN
1	I	166	GLN
1	I	209	GLN
1	I	276	GLN
1	I	280	HIS
1	I	286	HIS
1	I	291	HIS
1	I	305	ASN
1	I	331	HIS
1	I	342	HIS
1	I	351	ASN
1	I	383	HIS
1	I	390	HIS
1	I	393	GLN
1	I	396	GLN
1	I	404	GLN
1	I	413	HIS
1	I	433	HIS
1	I	448	GLN
1	I	463	HIS
1	I	470	HIS
1	J	44	ASN
1	J	103	HIS
1	J	105	GLN
1	J	129	GLN
1	J	141	HIS
1	J	148	ASN
1	J	166	GLN
1	J	209	GLN
1	J	276	GLN
1	J	280	HIS
1	J	286	HIS
1	J	331	HIS
1	J	342	HIS
1	J	351	ASN
1	J	383	HIS
1	J	390	HIS

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Mol	Chain	Res	Type
1	J	393	GLN
1	J	396	GLN
1	J	404	GLN
1	J	413	HIS
1	J	433	HIS
1	J	448	GLN
1	J	463	HIS
1	J	470	HIS
1	K	44	ASN
1	K	103	HIS
1	K	105	GLN
1	K	129	GLN
1	K	141	HIS
1	K	148	ASN
1	K	166	GLN
1	K	209	GLN
1	K	276	GLN
1	K	280	HIS
1	K	286	HIS
1	K	291	HIS
1	K	305	ASN
1	K	331	HIS
1	K	342	HIS
1	K	351	ASN
1	K	383	HIS
1	K	390	HIS
1	K	393	GLN
1	K	396	GLN
1	K	404	GLN
1	K	413	HIS
1	K	433	HIS
1	K	448	GLN
1	K	463	HIS
1	K	470	HIS
1	L	44	ASN
1	L	103	HIS
1	L	105	GLN
1	L	129	GLN
1	L	141	HIS
1	L	148	ASN
1	L	166	GLN
1	L	209	GLN

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Mol	Chain	Res	Type
1	L	276	GLN
1	L	280	HIS
1	L	286	HIS
1	L	331	HIS
1	L	342	HIS
1	L	351	ASN
1	L	383	HIS
1	L	390	HIS
1	L	393	GLN
1	L	396	GLN
1	L	404	GLN
1	L	413	HIS
1	L	433	HIS
1	L	448	GLN
1	L	463	HIS
1	L	470	HIS
1	M	44	ASN
1	M	103	HIS
1	M	105	GLN
1	M	129	GLN
1	M	141	HIS
1	M	148	ASN
1	M	166	GLN
1	M	209	GLN
1	M	276	GLN
1	M	280	HIS
1	M	286	HIS
1	M	331	HIS
1	M	342	HIS
1	M	351	ASN
1	M	383	HIS
1	M	390	HIS
1	M	393	GLN
1	M	396	GLN
1	M	404	GLN
1	M	413	HIS
1	M	433	HIS
1	M	448	GLN
1	M	463	HIS
1	M	470	HIS
1	N	44	ASN
1	N	103	HIS

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Mol	Chain	Res	Type
1	N	105	GLN
1	N	129	GLN
1	N	141	HIS
1	N	148	ASN
1	N	166	GLN
1	N	209	GLN
1	N	276	GLN
1	N	280	HIS
1	N	286	HIS
1	N	291	HIS
1	N	305	ASN
1	N	331	HIS
1	N	342	HIS
1	N	351	ASN
1	N	383	HIS
1	N	390	HIS
1	N	393	GLN
1	N	396	GLN
1	N	404	GLN
1	N	413	HIS
1	N	433	HIS
1	N	448	GLN
1	N	463	HIS
1	N	470	HIS
1	O	44	ASN
1	O	105	GLN
1	O	129	GLN
1	O	141	HIS
1	O	148	ASN
1	O	166	GLN
1	O	209	GLN
1	O	276	GLN
1	O	280	HIS
1	O	286	HIS
1	O	331	HIS
1	O	342	HIS
1	O	351	ASN
1	O	383	HIS
1	O	390	HIS
1	O	393	GLN
1	O	396	GLN
1	O	404	GLN

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Mol	Chain	Res	Type
1	O	413	HIS
1	O	433	HIS
1	O	448	GLN
1	O	463	HIS
1	O	470	HIS
1	P	44	ASN
1	P	103	HIS
1	P	105	GLN
1	P	129	GLN
1	P	141	HIS
1	P	148	ASN
1	P	166	GLN
1	P	209	GLN
1	P	276	GLN
1	P	280	HIS
1	P	286	HIS
1	P	331	HIS
1	P	342	HIS
1	P	351	ASN
1	P	383	HIS
1	P	390	HIS
1	P	393	GLN
1	P	396	GLN
1	P	404	GLN
1	P	413	HIS
1	P	433	HIS
1	P	448	GLN
1	P	463	HIS
1	P	470	HIS
1	Q	44	ASN
1	Q	103	HIS
1	Q	105	GLN
1	Q	129	GLN
1	Q	141	HIS
1	Q	148	ASN
1	Q	166	GLN
1	Q	209	GLN
1	Q	276	GLN
1	Q	280	HIS
1	Q	286	HIS
1	Q	291	HIS
1	Q	305	ASN

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Mol	Chain	Res	Type
1	Q	331	HIS
1	Q	342	HIS
1	Q	351	ASN
1	Q	383	HIS
1	Q	390	HIS
1	Q	393	GLN
1	Q	396	GLN
1	Q	404	GLN
1	Q	413	HIS
1	Q	433	HIS
1	Q	448	GLN
1	Q	463	HIS
1	Q	470	HIS
1	R	44	ASN
1	R	103	HIS
1	R	105	GLN
1	R	129	GLN
1	R	141	HIS
1	R	148	ASN
1	R	166	GLN
1	R	209	GLN
1	R	276	GLN
1	R	280	HIS
1	R	286	HIS
1	R	331	HIS
1	R	342	HIS
1	R	351	ASN
1	R	383	HIS
1	R	393	GLN
1	R	396	GLN
1	R	404	GLN
1	R	413	HIS
1	R	433	HIS
1	R	448	GLN
1	R	463	HIS
1	R	470	HIS
1	S	44	ASN
1	S	103	HIS
1	S	105	GLN
1	S	129	GLN
1	S	141	HIS
1	S	148	ASN

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Mol	Chain	Res	Type
1	S	166	GLN
1	S	209	GLN
1	S	276	GLN
1	S	280	HIS
1	S	286	HIS
1	S	291	HIS
1	S	331	HIS
1	S	342	HIS
1	S	351	ASN
1	S	383	HIS
1	S	390	HIS
1	S	393	GLN
1	S	396	GLN
1	S	404	GLN
1	S	413	HIS
1	S	433	HIS
1	S	448	GLN
1	S	463	HIS
1	S	470	HIS
1	T	44	ASN
1	T	105	GLN
1	T	129	GLN
1	T	141	HIS
1	T	148	ASN
1	T	166	GLN
1	T	209	GLN
1	T	276	GLN
1	T	280	HIS
1	T	286	HIS
1	T	331	HIS
1	T	342	HIS
1	T	351	ASN
1	T	383	HIS
1	T	390	HIS
1	T	393	GLN
1	T	396	GLN
1	T	404	GLN
1	T	413	HIS
1	T	433	HIS
1	T	448	GLN
1	T	463	HIS
1	T	470	HIS

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Mol	Chain	Res	Type
1	U	44	ASN
1	U	103	HIS
1	U	105	GLN
1	U	129	GLN
1	U	141	HIS
1	U	148	ASN
1	U	166	GLN
1	U	209	GLN
1	U	276	GLN
1	U	280	HIS
1	U	286	HIS
1	U	331	HIS
1	U	342	HIS
1	U	351	ASN
1	U	383	HIS
1	U	390	HIS
1	U	393	GLN
1	U	396	GLN
1	U	404	GLN
1	U	413	HIS
1	U	433	HIS
1	U	448	GLN
1	U	463	HIS
1	U	470	HIS
1	V	44	ASN
1	V	103	HIS
1	V	105	GLN
1	V	129	GLN
1	V	141	HIS
1	V	148	ASN
1	V	166	GLN
1	V	209	GLN
1	V	276	GLN
1	V	280	HIS
1	V	286	HIS
1	V	331	HIS
1	V	342	HIS
1	V	351	ASN
1	V	383	HIS
1	V	390	HIS
1	V	393	GLN
1	V	396	GLN

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Mol	Chain	Res	Type
1	V	404	GLN
1	V	413	HIS
1	V	433	HIS
1	V	448	GLN
1	V	463	HIS
1	V	470	HIS
1	W	44	ASN
1	W	103	HIS
1	W	105	GLN
1	W	129	GLN
1	W	141	HIS
1	W	148	ASN
1	W	166	GLN
1	W	209	GLN
1	W	276	GLN
1	W	280	HIS
1	W	286	HIS
1	W	331	HIS
1	W	342	HIS
1	W	351	ASN
1	W	383	HIS
1	W	390	HIS
1	W	393	GLN
1	W	396	GLN
1	W	404	GLN
1	W	413	HIS
1	W	433	HIS
1	W	448	GLN
1	W	463	HIS
1	W	470	HIS
1	X	44	ASN
1	X	103	HIS
1	X	105	GLN
1	X	129	GLN
1	X	141	HIS
1	X	148	ASN
1	X	166	GLN
1	X	209	GLN
1	X	276	GLN
1	X	280	HIS
1	X	286	HIS
1	X	331	HIS

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Mol	Chain	Res	Type
1	X	342	HIS
1	X	351	ASN
1	X	383	HIS
1	X	390	HIS
1	X	393	GLN
1	X	396	GLN
1	X	404	GLN
1	X	413	HIS
1	X	433	HIS
1	X	448	GLN
1	X	463	HIS
1	X	470	HIS
1	Y	44	ASN
1	Y	103	HIS
1	Y	105	GLN
1	Y	129	GLN
1	Y	141	HIS
1	Y	148	ASN
1	Y	166	GLN
1	Y	209	GLN
1	Y	276	GLN
1	Y	280	HIS
1	Y	286	HIS
1	Y	291	HIS
1	Y	305	ASN
1	Y	331	HIS
1	Y	342	HIS
1	Y	351	ASN
1	Y	383	HIS
1	Y	390	HIS
1	Y	393	GLN
1	Y	396	GLN
1	Y	404	GLN
1	Y	413	HIS
1	Y	433	HIS
1	Y	448	GLN
1	Y	463	HIS
1	Y	470	HIS
1	Z	44	ASN
1	Z	103	HIS
1	Z	105	GLN
1	Z	129	GLN

Continued on next page...

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Mol	Chain	Res	Type
1	Z	141	HIS
1	Z	148	ASN
1	Z	166	GLN
1	Z	209	GLN
1	Z	276	GLN
1	Z	280	HIS
1	Z	286	HIS
1	Z	331	HIS
1	Z	342	HIS
1	Z	351	ASN
1	Z	383	HIS
1	Z	390	HIS
1	Z	393	GLN
1	Z	396	GLN
1	Z	404	GLN
1	Z	413	HIS
1	Z	433	HIS
1	Z	448	GLN
1	Z	463	HIS
1	Z	470	HIS
1	a	44	ASN
1	a	103	HIS
1	a	105	GLN
1	a	129	GLN
1	a	141	HIS
1	a	148	ASN
1	a	166	GLN
1	a	209	GLN
1	a	276	GLN
1	a	280	HIS
1	a	286	HIS
1	a	331	HIS
1	a	342	HIS
1	a	351	ASN
1	a	383	HIS
1	a	390	HIS
1	a	393	GLN
1	a	396	GLN
1	a	404	GLN
1	a	413	HIS
1	a	433	HIS
1	a	448	GLN

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Mol	Chain	Res	Type
1	a	463	HIS
1	a	470	HIS
1	b	44	ASN
1	b	105	GLN
1	b	129	GLN
1	b	141	HIS
1	b	148	ASN
1	b	166	GLN
1	b	209	GLN
1	b	276	GLN
1	b	280	HIS
1	b	286	HIS
1	b	331	HIS
1	b	342	HIS
1	b	351	ASN
1	b	383	HIS
1	b	390	HIS
1	b	393	GLN
1	b	396	GLN
1	b	404	GLN
1	b	413	HIS
1	b	433	HIS
1	b	448	GLN
1	b	463	HIS
1	b	470	HIS
1	c	44	ASN
1	c	103	HIS
1	c	105	GLN
1	c	129	GLN
1	c	141	HIS
1	c	148	ASN
1	c	166	GLN
1	c	209	GLN
1	c	276	GLN
1	c	280	HIS
1	c	286	HIS
1	c	331	HIS
1	c	342	HIS
1	c	351	ASN
1	c	383	HIS
1	c	390	HIS
1	c	393	GLN

Continued on next page...

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Mol	Chain	Res	Type
1	c	396	GLN
1	c	404	GLN
1	c	413	HIS
1	c	433	HIS
1	c	448	GLN
1	c	463	HIS
1	c	470	HIS
1	d	44	ASN
1	d	103	HIS
1	d	105	GLN
1	d	129	GLN
1	d	141	HIS
1	d	148	ASN
1	d	166	GLN
1	d	209	GLN
1	d	276	GLN
1	d	280	HIS
1	d	286	HIS
1	d	331	HIS
1	d	342	HIS
1	d	351	ASN
1	d	383	HIS
1	d	390	HIS
1	d	393	GLN
1	d	396	GLN
1	d	404	GLN
1	d	413	HIS
1	d	433	HIS
1	d	448	GLN
1	d	463	HIS
1	d	470	HIS
1	e	44	ASN
1	e	105	GLN
1	e	129	GLN
1	e	141	HIS
1	e	148	ASN
1	e	166	GLN
1	e	209	GLN
1	e	276	GLN
1	e	280	HIS
1	e	286	HIS
1	e	331	HIS

Continued on next page...

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Mol	Chain	Res	Type
1	e	342	HIS
1	e	351	ASN
1	e	383	HIS
1	e	390	HIS
1	e	393	GLN
1	e	396	GLN
1	e	404	GLN
1	e	413	HIS
1	e	433	HIS
1	e	448	GLN
1	e	463	HIS
1	e	470	HIS
1	f	44	ASN
1	f	105	GLN
1	f	129	GLN
1	f	141	HIS
1	f	148	ASN
1	f	166	GLN
1	f	209	GLN
1	f	276	GLN
1	f	280	HIS
1	f	286	HIS
1	f	331	HIS
1	f	342	HIS
1	f	351	ASN
1	f	383	HIS
1	f	390	HIS
1	f	393	GLN
1	f	396	GLN
1	f	404	GLN
1	f	413	HIS
1	f	433	HIS
1	f	448	GLN
1	f	463	HIS
1	f	470	HIS
1	g	44	ASN
1	g	103	HIS
1	g	105	GLN
1	g	129	GLN
1	g	141	HIS
1	g	148	ASN
1	g	166	GLN

Continued on next page...

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Mol	Chain	Res	Type
1	g	209	GLN
1	g	276	GLN
1	g	280	HIS
1	g	286	HIS
1	g	331	HIS
1	g	342	HIS
1	g	351	ASN
1	g	383	HIS
1	g	390	HIS
1	g	393	GLN
1	g	396	GLN
1	g	404	GLN
1	g	413	HIS
1	g	433	HIS
1	g	448	GLN
1	g	463	HIS
1	g	470	HIS
1	h	44	ASN
1	h	103	HIS
1	h	105	GLN
1	h	129	GLN
1	h	141	HIS
1	h	148	ASN
1	h	166	GLN
1	h	209	GLN
1	h	276	GLN
1	h	280	HIS
1	h	286	HIS
1	h	331	HIS
1	h	342	HIS
1	h	351	ASN
1	h	383	HIS
1	h	390	HIS
1	h	393	GLN
1	h	396	GLN
1	h	404	GLN
1	h	413	HIS
1	h	433	HIS
1	h	448	GLN
1	h	463	HIS
1	h	470	HIS
1	i	44	ASN

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Mol	Chain	Res	Type
1	i	103	HIS
1	i	105	GLN
1	i	129	GLN
1	i	141	HIS
1	i	148	ASN
1	i	166	GLN
1	i	209	GLN
1	i	276	GLN
1	i	280	HIS
1	i	286	HIS
1	i	291	HIS
1	i	305	ASN
1	i	331	HIS
1	i	342	HIS
1	i	351	ASN
1	i	383	HIS
1	i	390	HIS
1	i	393	GLN
1	i	396	GLN
1	i	404	GLN
1	i	413	HIS
1	i	433	HIS
1	i	448	GLN
1	i	463	HIS
1	i	470	HIS
1	j	44	ASN
1	j	103	HIS
1	j	105	GLN
1	j	129	GLN
1	j	141	HIS
1	j	148	ASN
1	j	166	GLN
1	j	209	GLN
1	j	276	GLN
1	j	280	HIS
1	j	286	HIS
1	j	331	HIS
1	j	342	HIS
1	j	351	ASN
1	j	383	HIS
1	j	390	HIS
1	j	393	GLN

Continued on next page...

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Mol	Chain	Res	Type
1	j	396	GLN
1	j	404	GLN
1	j	413	HIS
1	j	433	HIS
1	j	448	GLN
1	j	463	HIS
1	j	470	HIS
1	k	44	ASN
1	k	103	HIS
1	k	105	GLN
1	k	129	GLN
1	k	141	HIS
1	k	148	ASN
1	k	166	GLN
1	k	209	GLN
1	k	276	GLN
1	k	280	HIS
1	k	286	HIS
1	k	331	HIS
1	k	342	HIS
1	k	351	ASN
1	k	383	HIS
1	k	390	HIS
1	k	393	GLN
1	k	396	GLN
1	k	404	GLN
1	k	413	HIS
1	k	433	HIS
1	k	448	GLN
1	k	463	HIS
1	k	470	HIS
1	l	44	ASN
1	l	105	GLN
1	l	129	GLN
1	l	141	HIS
1	l	148	ASN
1	l	166	GLN
1	l	209	GLN
1	l	276	GLN
1	l	280	HIS
1	l	286	HIS
1	l	331	HIS

Continued on next page...

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Mol	Chain	Res	Type
1	l	342	HIS
1	l	351	ASN
1	l	383	HIS
1	l	390	HIS
1	l	393	GLN
1	l	396	GLN
1	l	404	GLN
1	l	413	HIS
1	l	433	HIS
1	l	448	GLN
1	l	463	HIS
1	l	470	HIS
1	m	44	ASN
1	m	105	GLN
1	m	129	GLN
1	m	141	HIS
1	m	148	ASN
1	m	166	GLN
1	m	209	GLN
1	m	276	GLN
1	m	280	HIS
1	m	286	HIS
1	m	331	HIS
1	m	342	HIS
1	m	351	ASN
1	m	383	HIS
1	m	390	HIS
1	m	393	GLN
1	m	396	GLN
1	m	404	GLN
1	m	413	HIS
1	m	433	HIS
1	m	448	GLN
1	m	463	HIS
1	m	470	HIS
1	n	44	ASN
1	n	103	HIS
1	n	105	GLN
1	n	129	GLN
1	n	141	HIS
1	n	148	ASN
1	n	166	GLN

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Mol	Chain	Res	Type
1	n	209	GLN
1	n	276	GLN
1	n	280	HIS
1	n	286	HIS
1	n	331	HIS
1	n	342	HIS
1	n	351	ASN
1	n	383	HIS
1	n	390	HIS
1	n	393	GLN
1	n	396	GLN
1	n	404	GLN
1	n	413	HIS
1	n	433	HIS
1	n	448	GLN
1	n	463	HIS
1	n	470	HIS
1	o	44	ASN
1	o	103	HIS
1	o	105	GLN
1	o	129	GLN
1	o	141	HIS
1	o	148	ASN
1	o	166	GLN
1	o	209	GLN
1	o	276	GLN
1	o	280	HIS
1	o	286	HIS
1	o	291	HIS
1	o	305	ASN
1	o	331	HIS
1	o	342	HIS
1	o	351	ASN
1	o	383	HIS
1	o	390	HIS
1	o	393	GLN
1	o	396	GLN
1	o	404	GLN
1	o	413	HIS
1	o	433	HIS
1	o	448	GLN
1	o	463	HIS

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Mol	Chain	Res	Type
1	o	470	HIS
1	p	44	ASN
1	p	103	HIS
1	p	105	GLN
1	p	129	GLN
1	p	141	HIS
1	p	148	ASN
1	p	166	GLN
1	p	209	GLN
1	p	276	GLN
1	p	280	HIS
1	p	286	HIS
1	p	331	HIS
1	p	342	HIS
1	p	351	ASN
1	p	383	HIS
1	p	390	HIS
1	p	393	GLN
1	p	396	GLN
1	p	404	GLN
1	p	413	HIS
1	p	433	HIS
1	p	448	GLN
1	p	463	HIS
1	p	470	HIS
1	q	44	ASN
1	q	105	GLN
1	q	129	GLN
1	q	141	HIS
1	q	148	ASN
1	q	166	GLN
1	q	209	GLN
1	q	276	GLN
1	q	280	HIS
1	q	286	HIS
1	q	331	HIS
1	q	342	HIS
1	q	351	ASN
1	q	383	HIS
1	q	393	GLN
1	q	396	GLN
1	q	404	GLN

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Mol	Chain	Res	Type
1	q	413	HIS
1	q	433	HIS
1	q	448	GLN
1	q	463	HIS
1	q	470	HIS
1	r	44	ASN
1	r	103	HIS
1	r	105	GLN
1	r	129	GLN
1	r	141	HIS
1	r	148	ASN
1	r	166	GLN
1	r	209	GLN
1	r	276	GLN
1	r	280	HIS
1	r	286	HIS
1	r	331	HIS
1	r	342	HIS
1	r	351	ASN
1	r	383	HIS
1	r	390	HIS
1	r	393	GLN
1	r	396	GLN
1	r	404	GLN
1	r	413	HIS
1	r	433	HIS
1	r	448	GLN
1	r	463	HIS
1	r	470	HIS
1	s	44	ASN
1	s	103	HIS
1	s	105	GLN
1	s	129	GLN
1	s	141	HIS
1	s	148	ASN
1	s	166	GLN
1	s	209	GLN
1	s	276	GLN
1	s	280	HIS
1	s	286	HIS
1	s	291	HIS
1	s	305	ASN

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Mol	Chain	Res	Type
1	s	331	HIS
1	s	342	HIS
1	s	351	ASN
1	s	383	HIS
1	s	390	HIS
1	s	393	GLN
1	s	396	GLN
1	s	404	GLN
1	s	413	HIS
1	s	433	HIS
1	s	448	GLN
1	s	463	HIS
1	s	470	HIS
1	t	44	ASN
1	t	105	GLN
1	t	129	GLN
1	t	141	HIS
1	t	148	ASN
1	t	166	GLN
1	t	209	GLN
1	t	276	GLN
1	t	280	HIS
1	t	286	HIS
1	t	291	HIS
1	t	305	ASN
1	t	331	HIS
1	t	342	HIS
1	t	351	ASN
1	t	383	HIS
1	t	393	GLN
1	t	396	GLN
1	t	404	GLN
1	t	413	HIS
1	t	433	HIS
1	t	448	GLN
1	t	463	HIS
1	t	470	HIS
1	u	44	ASN
1	u	103	HIS
1	u	105	GLN
1	u	129	GLN
1	u	141	HIS

Continued on next page...

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Mol	Chain	Res	Type
1	u	148	ASN
1	u	166	GLN
1	u	209	GLN
1	u	276	GLN
1	u	280	HIS
1	u	286	HIS
1	u	291	HIS
1	u	305	ASN
1	u	331	HIS
1	u	342	HIS
1	u	351	ASN
1	u	383	HIS
1	u	390	HIS
1	u	393	GLN
1	u	396	GLN
1	u	404	GLN
1	u	413	HIS
1	u	433	HIS
1	u	448	GLN
1	u	463	HIS
1	u	470	HIS
1	v	44	ASN
1	v	105	GLN
1	v	129	GLN
1	v	141	HIS
1	v	148	ASN
1	v	166	GLN
1	v	209	GLN
1	v	276	GLN
1	v	280	HIS
1	v	286	HIS
1	v	331	HIS
1	v	342	HIS
1	v	351	ASN
1	v	383	HIS
1	v	390	HIS
1	v	393	GLN
1	v	396	GLN
1	v	404	GLN
1	v	413	HIS
1	v	433	HIS
1	v	448	GLN

Continued on next page...

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Mol	Chain	Res	Type
1	v	463	HIS
1	v	470	HIS
1	w	44	ASN
1	w	105	GLN
1	w	129	GLN
1	w	141	HIS
1	w	148	ASN
1	w	166	GLN
1	w	209	GLN
1	w	276	GLN
1	w	280	HIS
1	w	286	HIS
1	w	331	HIS
1	w	342	HIS
1	w	351	ASN
1	w	383	HIS
1	w	390	HIS
1	w	393	GLN
1	w	396	GLN
1	w	404	GLN
1	w	413	HIS
1	w	433	HIS
1	w	448	GLN
1	w	463	HIS
1	w	470	HIS
1	x	44	ASN
1	x	103	HIS
1	x	105	GLN
1	x	129	GLN
1	x	141	HIS
1	x	148	ASN
1	x	166	GLN
1	x	209	GLN
1	x	276	GLN
1	x	280	HIS
1	x	286	HIS
1	x	291	HIS
1	x	305	ASN
1	x	331	HIS
1	x	342	HIS
1	x	351	ASN
1	x	383	HIS

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Mol	Chain	Res	Type
1	x	390	HIS
1	x	393	GLN
1	x	396	GLN
1	x	404	GLN
1	x	413	HIS
1	x	433	HIS
1	x	448	GLN
1	x	463	HIS
1	x	470	HIS
1	y	44	ASN
1	y	103	HIS
1	y	105	GLN
1	y	129	GLN
1	y	141	HIS
1	y	148	ASN
1	y	166	GLN
1	y	209	GLN
1	y	276	GLN
1	y	280	HIS
1	y	286	HIS
1	y	331	HIS
1	y	342	HIS
1	y	351	ASN
1	y	383	HIS
1	y	390	HIS
1	y	393	GLN
1	y	396	GLN
1	y	404	GLN
1	y	413	HIS
1	y	433	HIS
1	y	448	GLN
1	y	463	HIS
1	y	470	HIS
1	z	44	ASN
1	z	103	HIS
1	z	105	GLN
1	z	129	GLN
1	z	141	HIS
1	z	148	ASN
1	z	166	GLN
1	z	209	GLN
1	z	276	GLN

Continued on next page...

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Mol	Chain	Res	Type
1	z	280	HIS
1	z	286	HIS
1	z	331	HIS
1	z	342	HIS
1	z	351	ASN
1	z	383	HIS
1	z	390	HIS
1	z	393	GLN
1	z	396	GLN
1	z	404	GLN
1	z	413	HIS
1	z	433	HIS
1	z	448	GLN
1	z	463	HIS
1	z	470	HIS
1	1	44	ASN
1	1	103	HIS
1	1	105	GLN
1	1	129	GLN
1	1	141	HIS
1	1	148	ASN
1	1	166	GLN
1	1	209	GLN
1	1	276	GLN
1	1	280	HIS
1	1	286	HIS
1	1	331	HIS
1	1	342	HIS
1	1	351	ASN
1	1	383	HIS
1	1	390	HIS
1	1	393	GLN
1	1	396	GLN
1	1	404	GLN
1	1	413	HIS
1	1	433	HIS
1	1	448	GLN
1	1	463	HIS
1	1	470	HIS
1	2	44	ASN
1	2	103	HIS
1	2	105	GLN

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Mol	Chain	Res	Type
1	2	129	GLN
1	2	141	HIS
1	2	148	ASN
1	2	166	GLN
1	2	209	GLN
1	2	276	GLN
1	2	280	HIS
1	2	286	HIS
1	2	331	HIS
1	2	342	HIS
1	2	351	ASN
1	2	383	HIS
1	2	390	HIS
1	2	393	GLN
1	2	396	GLN
1	2	404	GLN
1	2	413	HIS
1	2	433	HIS
1	2	448	GLN
1	2	463	HIS
1	2	470	HIS
1	3	44	ASN
1	3	103	HIS
1	3	105	GLN
1	3	129	GLN
1	3	141	HIS
1	3	148	ASN
1	3	166	GLN
1	3	209	GLN
1	3	276	GLN
1	3	280	HIS
1	3	286	HIS
1	3	331	HIS
1	3	342	HIS
1	3	351	ASN
1	3	383	HIS
1	3	390	HIS
1	3	393	GLN
1	3	396	GLN
1	3	404	GLN
1	3	413	HIS
1	3	433	HIS

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Mol	Chain	Res	Type
1	3	448	GLN
1	3	463	HIS
1	3	470	HIS
1	4	44	ASN
1	4	103	HIS
1	4	105	GLN
1	4	129	GLN
1	4	141	HIS
1	4	148	ASN
1	4	166	GLN
1	4	209	GLN
1	4	276	GLN
1	4	280	HIS
1	4	286	HIS
1	4	291	HIS
1	4	305	ASN
1	4	331	HIS
1	4	342	HIS
1	4	351	ASN
1	4	383	HIS
1	4	390	HIS
1	4	393	GLN
1	4	396	GLN
1	4	404	GLN
1	4	413	HIS
1	4	433	HIS
1	4	448	GLN
1	4	463	HIS
1	4	470	HIS
1	5	44	ASN
1	5	103	HIS
1	5	105	GLN
1	5	129	GLN
1	5	141	HIS
1	5	148	ASN
1	5	166	GLN
1	5	209	GLN
1	5	276	GLN
1	5	280	HIS
1	5	286	HIS
1	5	291	HIS
1	5	305	ASN

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
1	5	331	HIS
1	5	342	HIS
1	5	351	ASN
1	5	383	HIS
1	5	390	HIS
1	5	393	GLN
1	5	396	GLN
1	5	404	GLN
1	5	413	HIS
1	5	433	HIS
1	5	448	GLN
1	5	463	HIS
1	5	470	HIS
1	6	44	ASN
1	6	105	GLN
1	6	129	GLN
1	6	141	HIS
1	6	148	ASN
1	6	166	GLN
1	6	209	GLN
1	6	276	GLN
1	6	280	HIS
1	6	286	HIS
1	6	331	HIS
1	6	342	HIS
1	6	351	ASN
1	6	383	HIS
1	6	390	HIS
1	6	393	GLN
1	6	396	GLN
1	6	404	GLN
1	6	413	HIS
1	6	433	HIS
1	6	448	GLN
1	6	463	HIS
1	6	470	HIS
1	7	44	ASN
1	7	103	HIS
1	7	105	GLN
1	7	129	GLN
1	7	141	HIS
1	7	148	ASN

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Mol	Chain	Res	Type
1	7	166	GLN
1	7	209	GLN
1	7	276	GLN
1	7	280	HIS
1	7	286	HIS
1	7	291	HIS
1	7	331	HIS
1	7	342	HIS
1	7	351	ASN
1	7	383	HIS
1	7	390	HIS
1	7	393	GLN
1	7	396	GLN
1	7	404	GLN
1	7	413	HIS
1	7	433	HIS
1	7	448	GLN
1	7	463	HIS
1	7	470	HIS
1	8	44	ASN
1	8	103	HIS
1	8	105	GLN
1	8	129	GLN
1	8	141	HIS
1	8	148	ASN
1	8	166	GLN
1	8	209	GLN
1	8	276	GLN
1	8	280	HIS
1	8	286	HIS
1	8	331	HIS
1	8	342	HIS
1	8	351	ASN
1	8	383	HIS
1	8	390	HIS
1	8	393	GLN
1	8	396	GLN
1	8	404	GLN
1	8	413	HIS
1	8	433	HIS
1	8	448	GLN
1	8	463	HIS

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Mol	Chain	Res	Type
1	8	470	HIS

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.

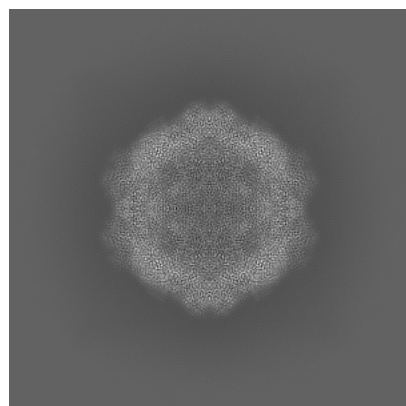
6 Map visualisation [i](#)

This section contains visualisations of the EMDB entry EMD-45973. These allow visual inspection of the internal detail of the map and identification of artifacts.

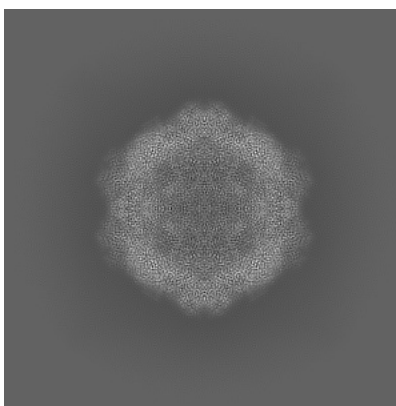
Images derived from a raw map, generated by summing the deposited half-maps, are presented below the corresponding image components of the primary map to allow further visual inspection and comparison with those of the primary map.

6.1 Orthogonal projections [i](#)

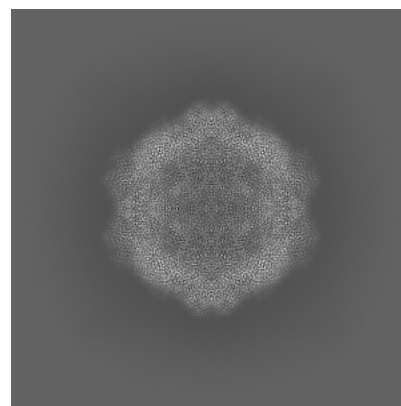
6.1.1 Primary map



X

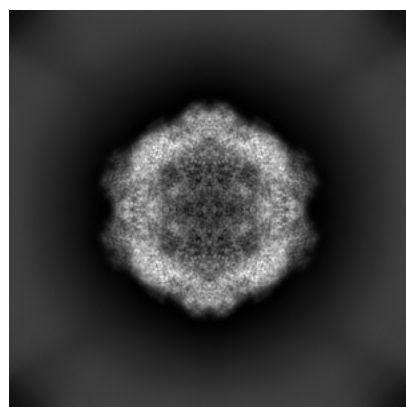


Y

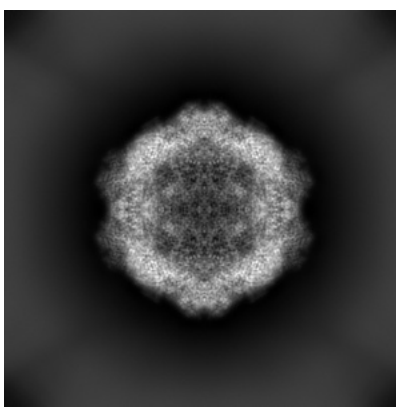


Z

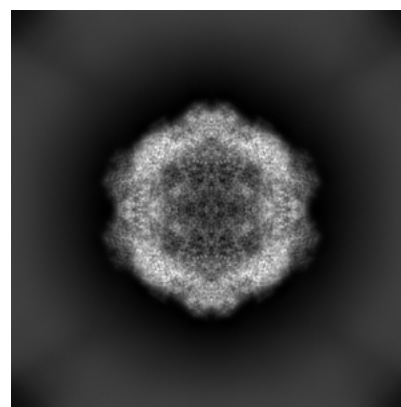
6.1.2 Raw map



X



Y

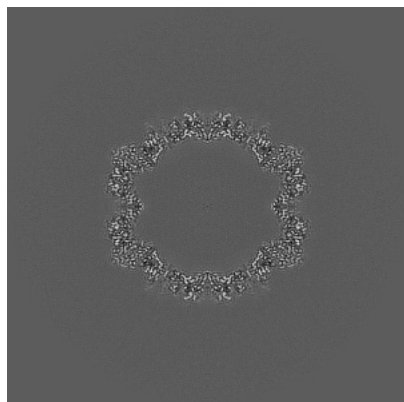


Z

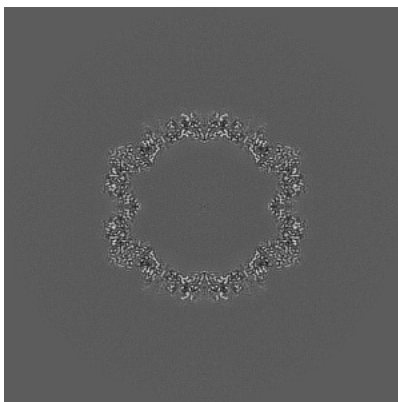
The images above show the map projected in three orthogonal directions.

6.2 Central slices [i](#)

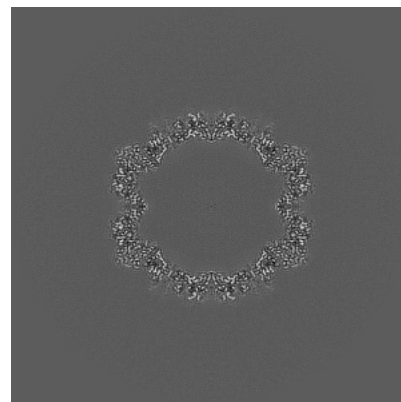
6.2.1 Primary map



X Index: 235

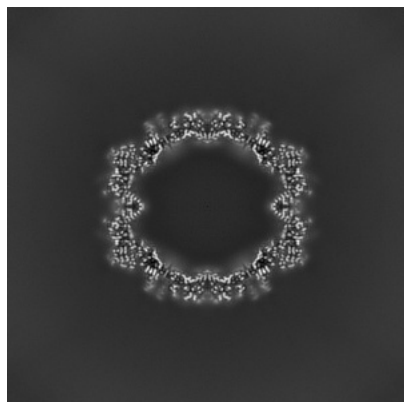


Y Index: 235

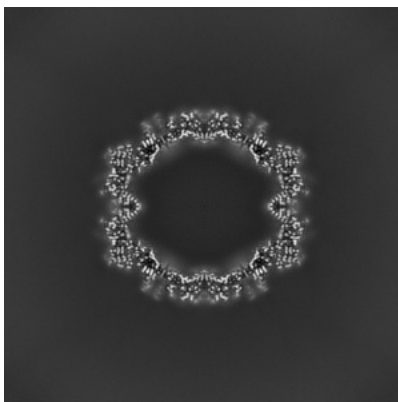


Z Index: 235

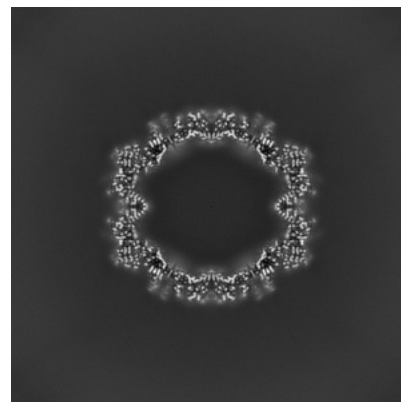
6.2.2 Raw map



X Index: 235



Y Index: 235

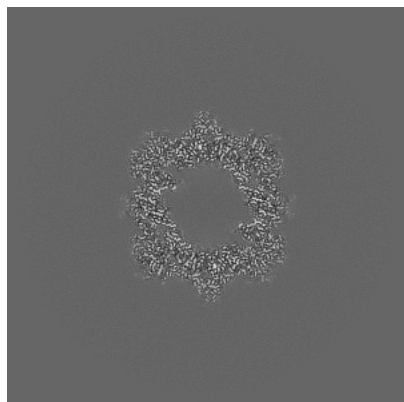


Z Index: 235

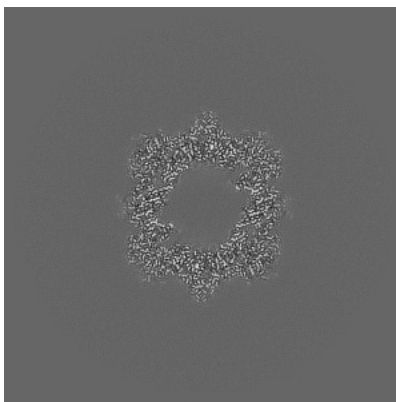
The images above show central slices of the map in three orthogonal directions.

6.3 Largest variance slices [i](#)

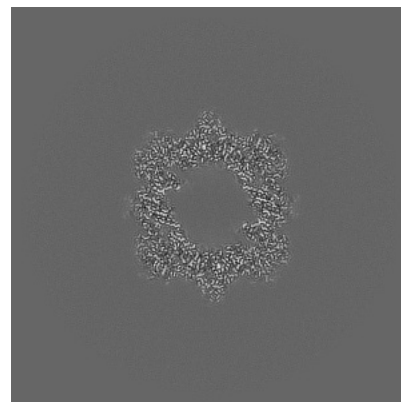
6.3.1 Primary map



X Index: 300

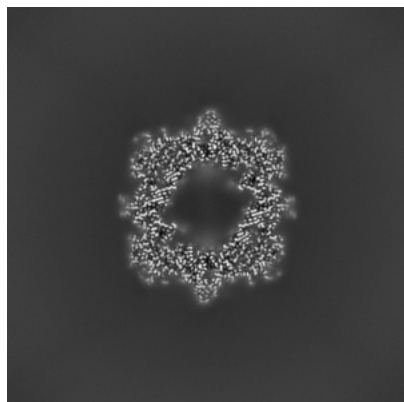


Y Index: 170

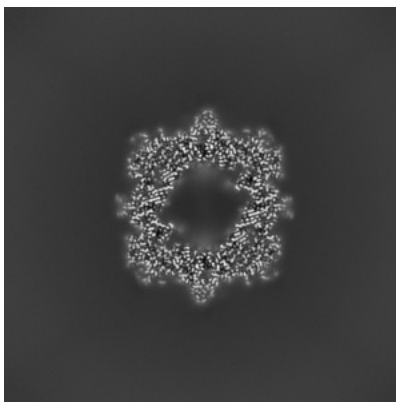


Z Index: 300

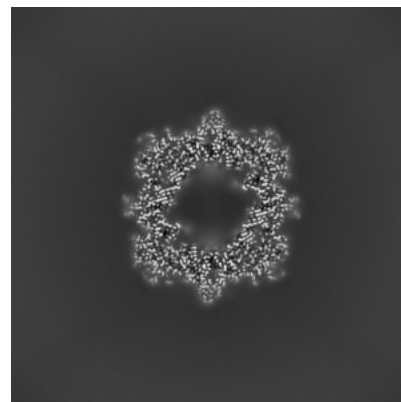
6.3.2 Raw map



X Index: 170



Y Index: 170

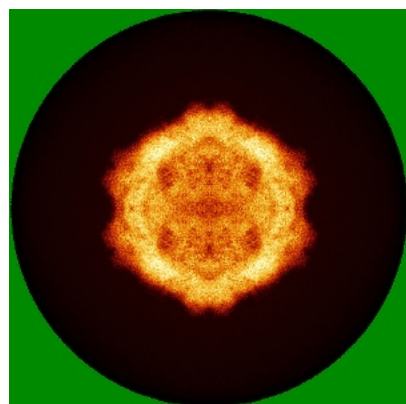


Z Index: 170

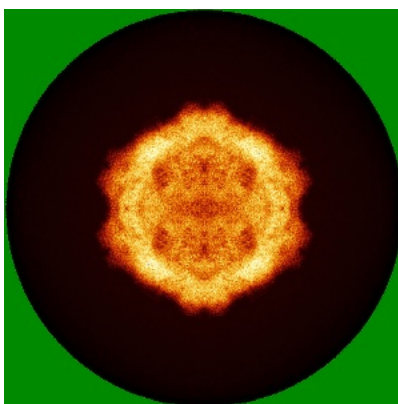
The images above show the largest variance slices of the map in three orthogonal directions.

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

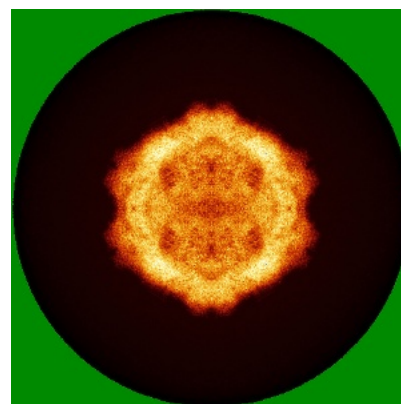
6.4.1 Primary map



X

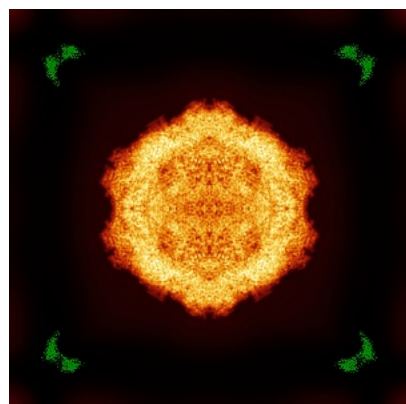


Y

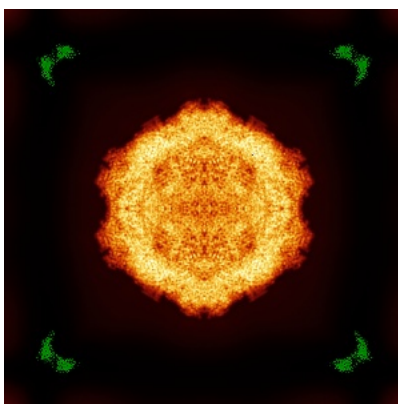


Z

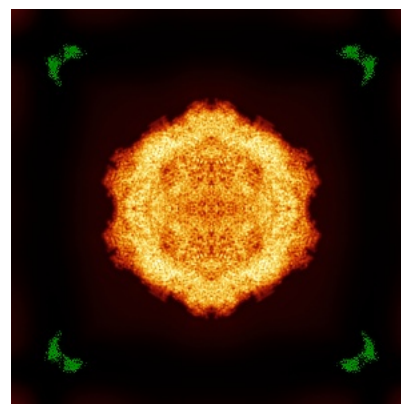
6.4.2 Raw map



X



Y

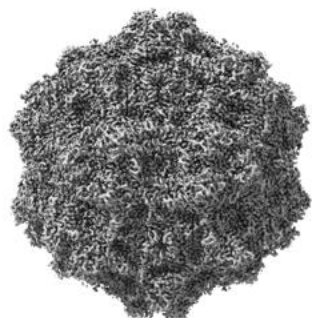


Z

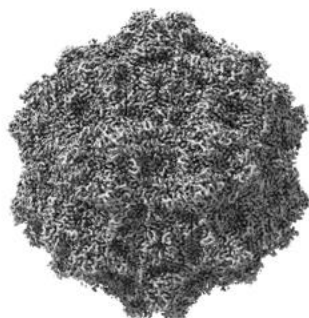
The images above show the map standard deviation projections with false color in three orthogonal directions. Minimum values are shown in green, max in blue, and dark to light orange shades represent small to large values respectively.

6.5 Orthogonal surface views [i](#)

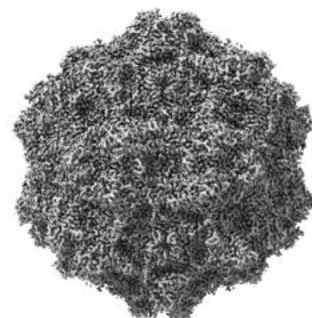
6.5.1 Primary map



X



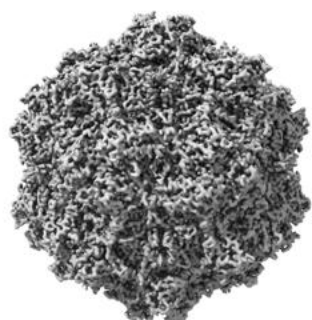
Y



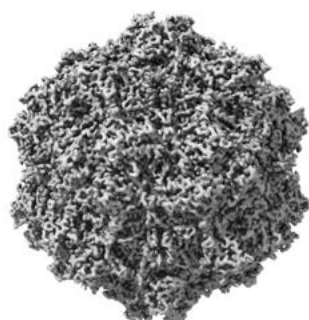
Z

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.

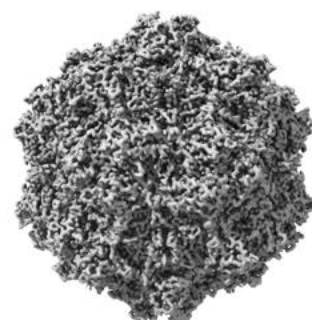
6.5.2 Raw map



X



Y



Z

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

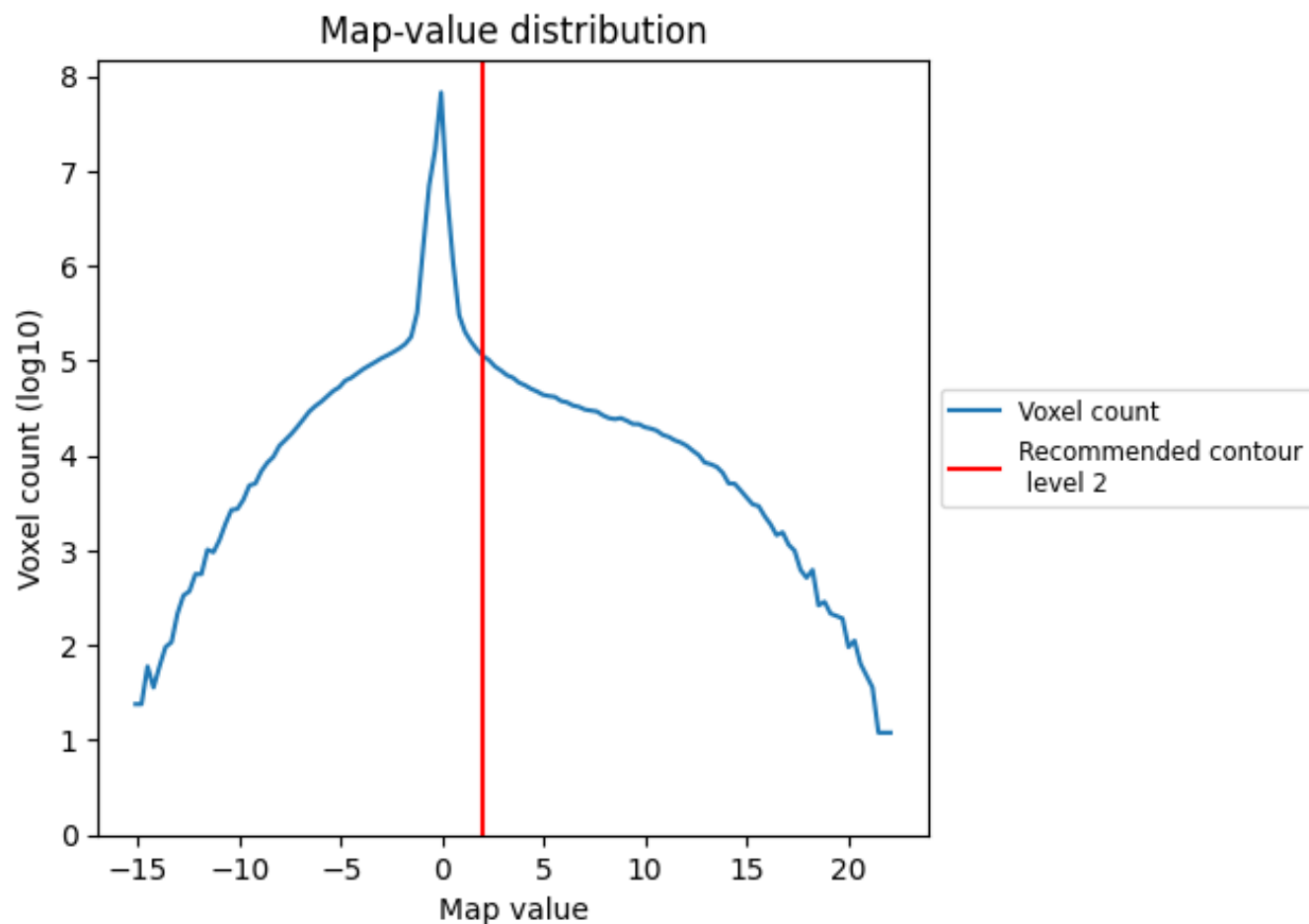
6.6 Mask visualisation [i](#)

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

7 Map analysis [i](#)

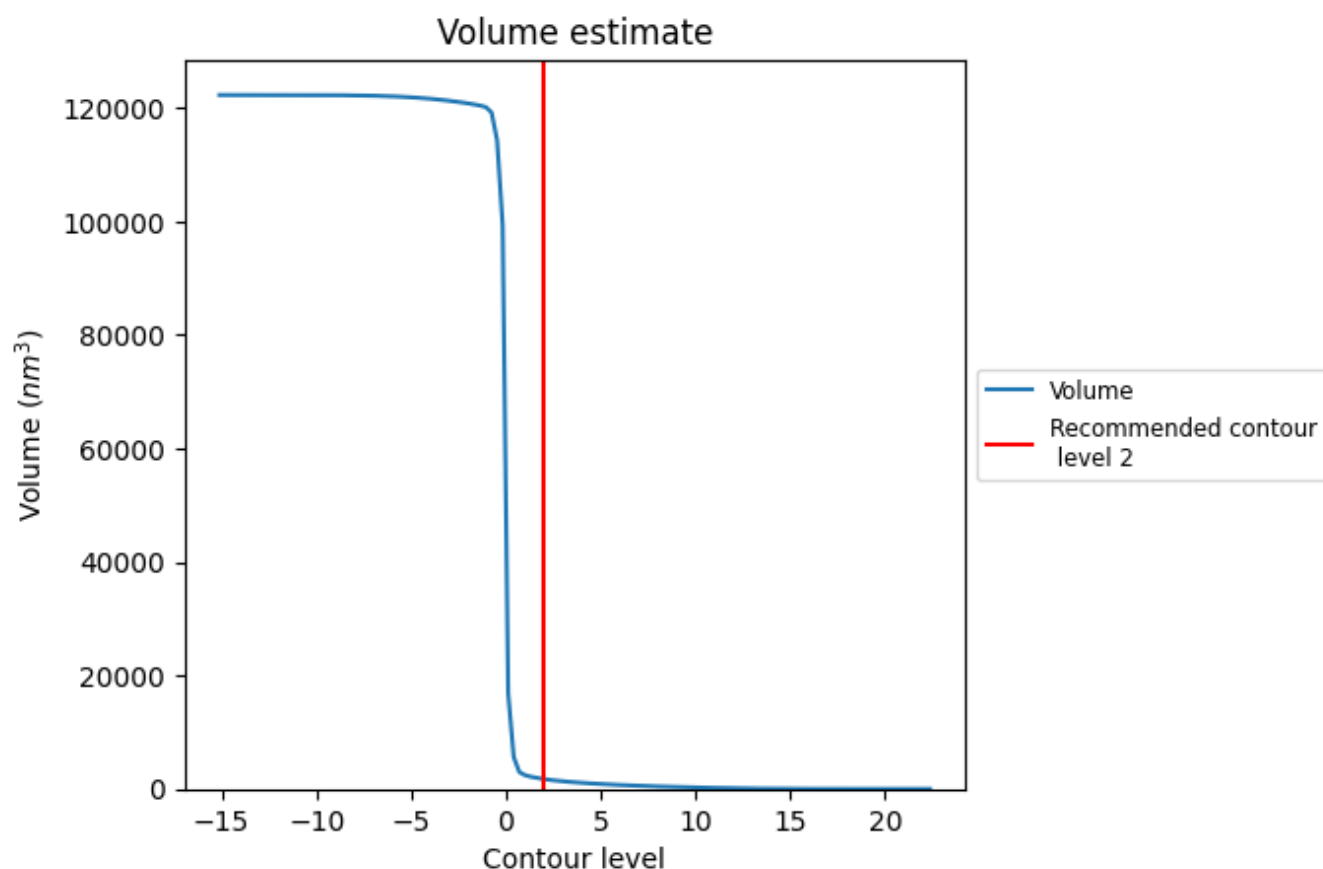
This section contains the results of statistical analysis of the map.

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.

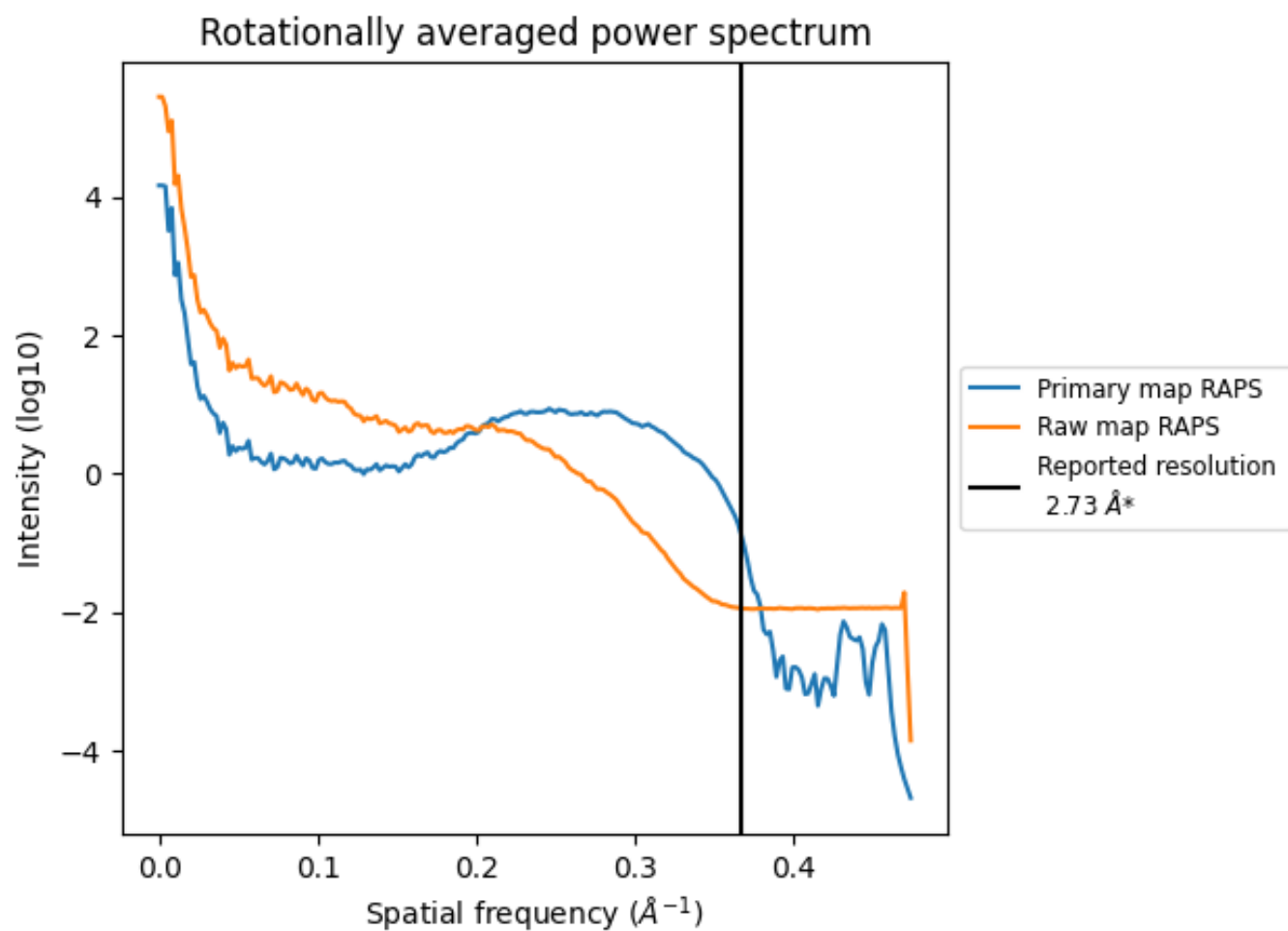
7.2 Volume estimate [i](#)



The volume at the recommended contour level is 1746 nm³; this corresponds to an approximate mass of 1577 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 ⓘ

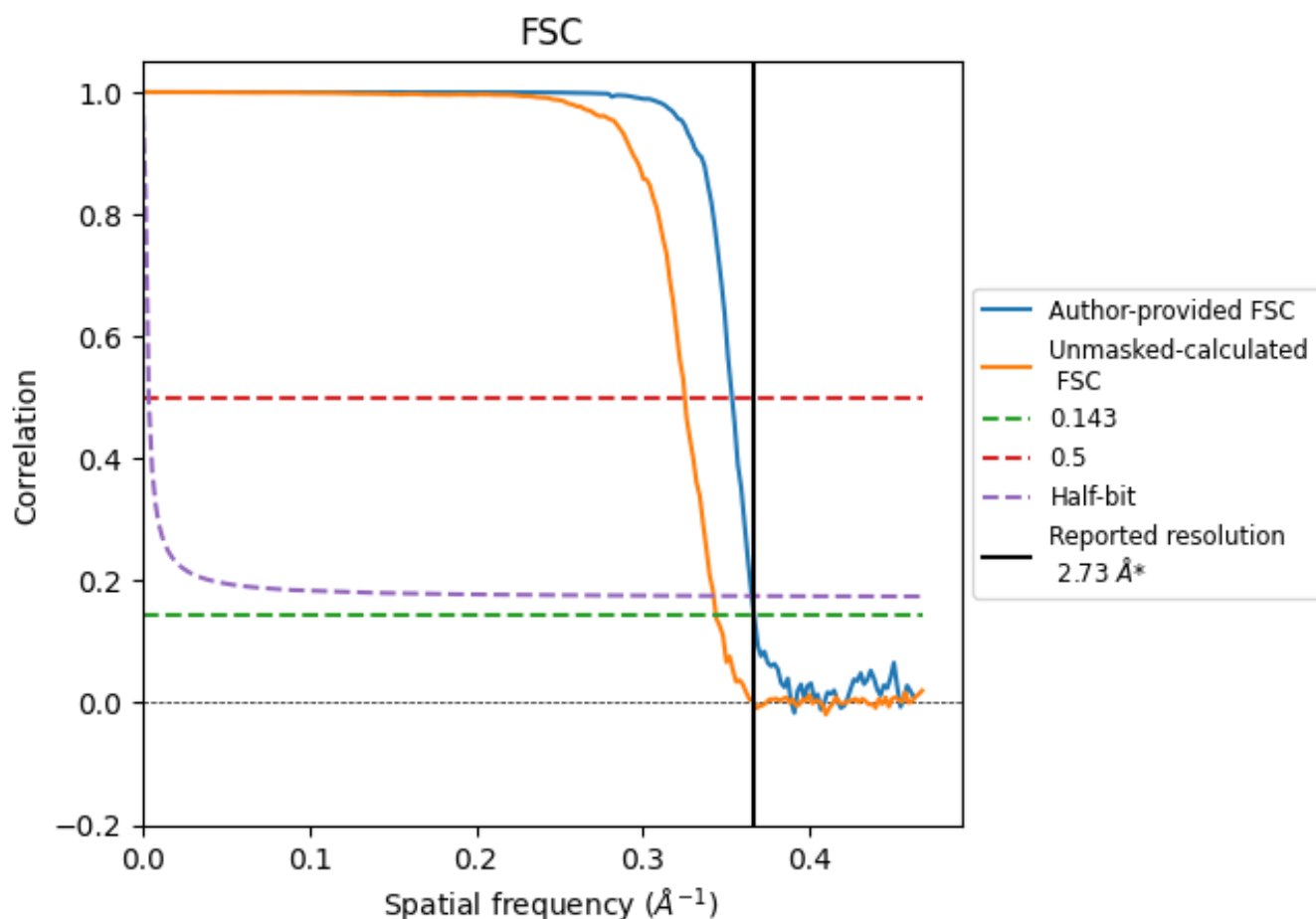


*Reported resolution corresponds to spatial frequency of 0.366 Å⁻¹

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 $0.366 \text{ \AA}^{-1}$

8.2 Resolution estimates [i](#)

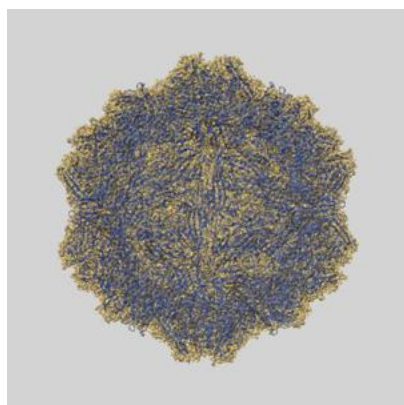
Resolution estimate (Å)	Estimation criterion (FSC cut-off)		
	0.143	0.5	Half-bit
Reported by author	2.73	-	-
Author-provided FSC curve	2.73	2.83	2.74
Unmasked-calculated*	2.91	3.08	2.92

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

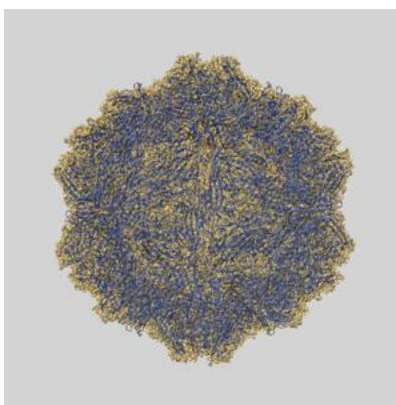
9 Map-model fit [i](#)

This section contains information regarding the fit between EMDB map EMD-45973 and PDB model 9CWS. Per-residue inclusion information can be found in section [3](#) on page [11](#).

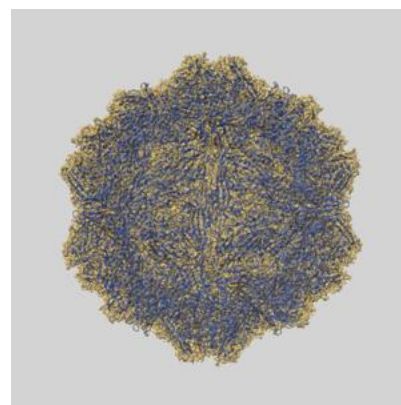
9.1 Map-model overlay [i](#)



X



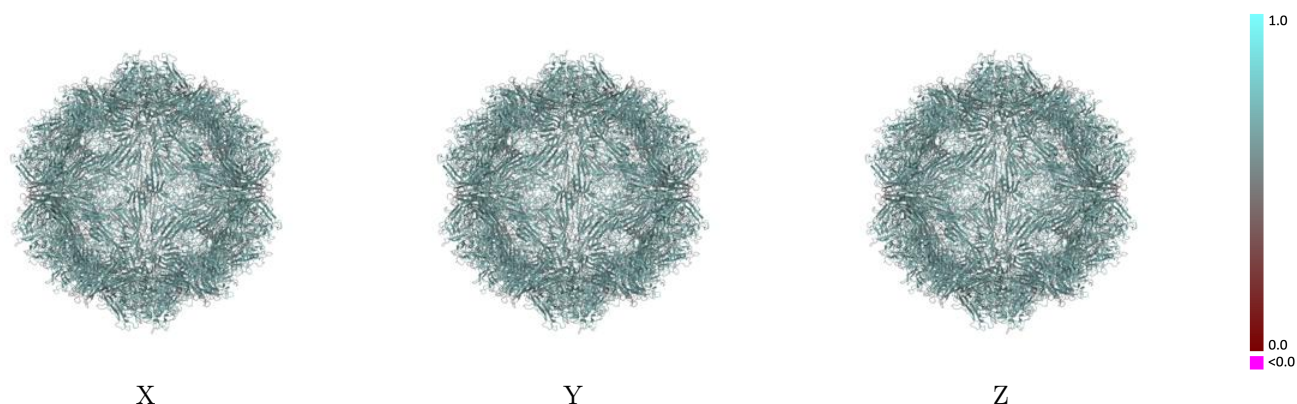
Y



Z

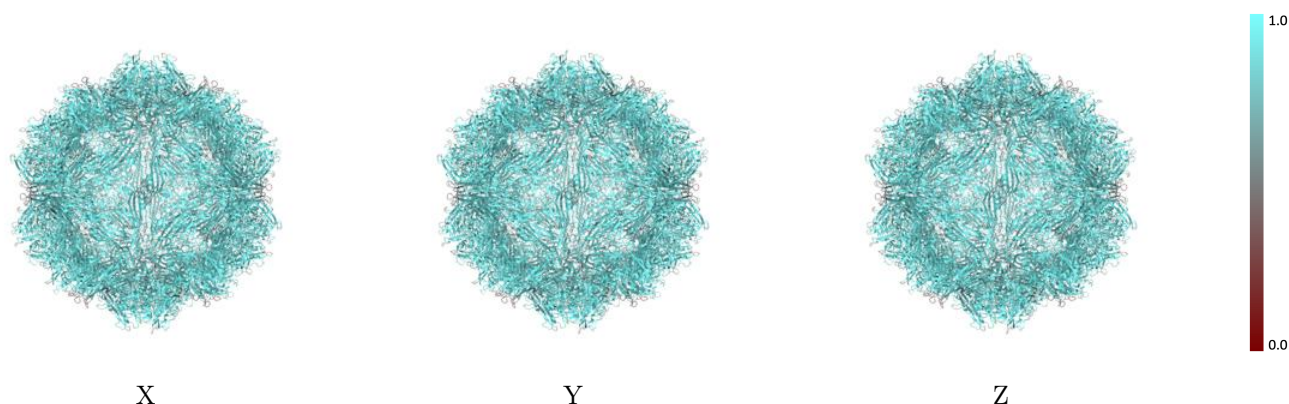
The images above show the 3D surface view of the map at the recommended contour level 2.0 at 50% transparency in yellow overlaid with a ribbon representation of the model coloured in blue. These images allow for the visual assessment of the quality of fit between the atomic model and the map.

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



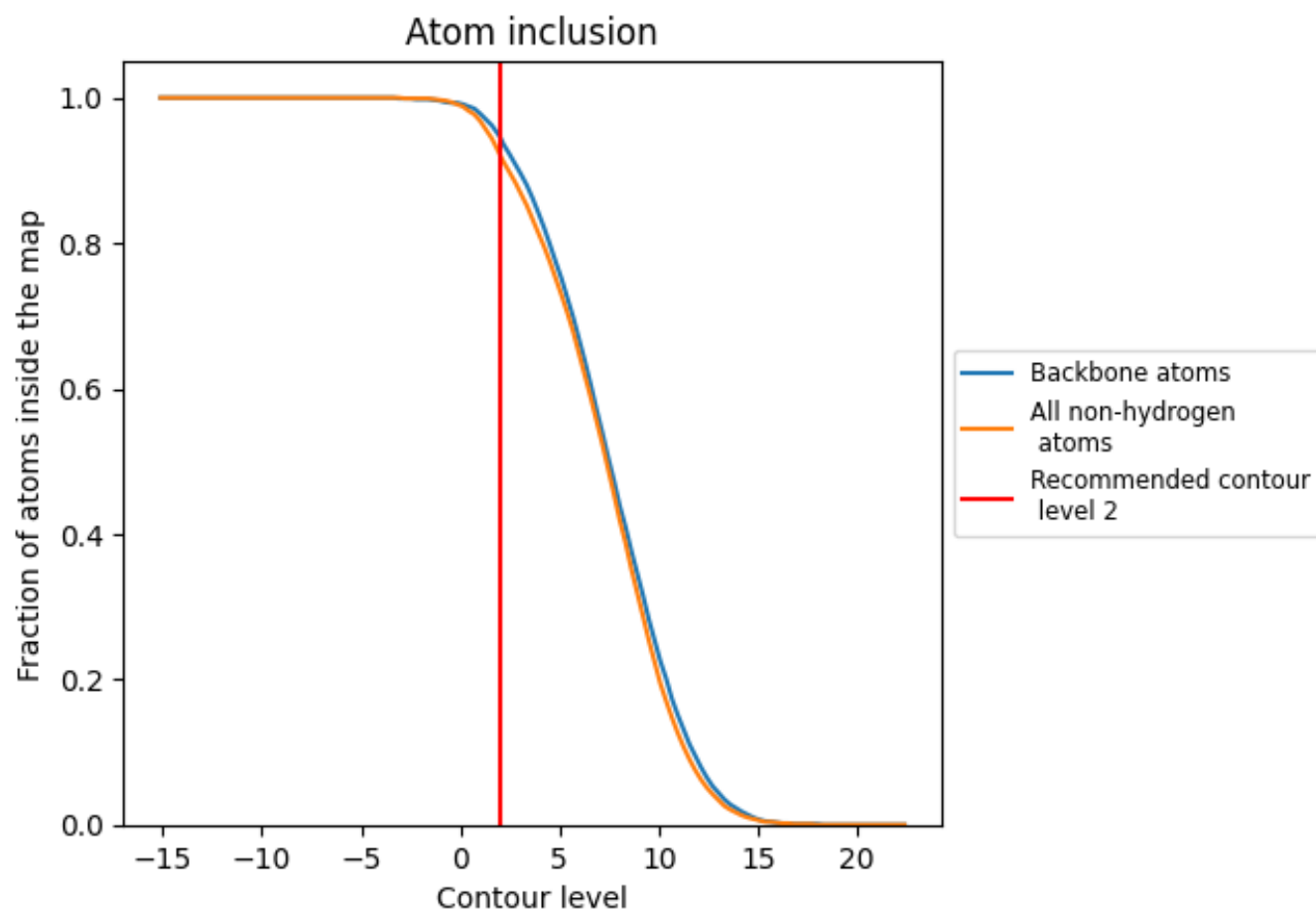
The images above show the model with each residue coloured according its Q-score. This shows their resolvability in the map with higher Q-score values reflecting better resolvability. Please note: Q-score is calculating the resolvability of atoms, and thus high values are only expected at resolutions 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, 92% 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	 0.9210	 0.6270
1	 0.9200	 0.6260
2	 0.9200	 0.6260
3	 0.9210	 0.6270
4	 0.9220	 0.6270
5	 0.9210	 0.6270
6	 0.9210	 0.6270
7	 0.9210	 0.6270
8	 0.9230	 0.6270
A	 0.9210	 0.6280
B	 0.9200	 0.6260
C	 0.9220	 0.6270
D	 0.9210	 0.6270
E	 0.9230	 0.6270
F	 0.9210	 0.6270
G	 0.9230	 0.6270
H	 0.9210	 0.6270
I	 0.9220	 0.6280
J	 0.9200	 0.6260
K	 0.9220	 0.6270
L	 0.9200	 0.6270
M	 0.9230	 0.6270
N	 0.9210	 0.6270
O	 0.9230	 0.6270
P	 0.9210	 0.6280
Q	 0.9220	 0.6270
R	 0.9200	 0.6260
S	 0.9200	 0.6260
T	 0.9220	 0.6280
U	 0.9200	 0.6270
V	 0.9220	 0.6280
W	 0.9210	 0.6280
X	 0.9230	 0.6270
Y	 0.9210	 0.6270
Z	 0.9230	 0.6270



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Chain	Atom inclusion	Q-score
a	 0.9210	 0.6270
b	 0.9210	 0.6270
c	 0.9210	 0.6270
d	 0.9210	 0.6270
e	 0.9210	 0.6270
f	 0.9210	 0.6270
g	 0.9220	 0.6280
h	 0.9230	 0.6270
i	 0.9210	 0.6270
j	 0.9210	 0.6270
k	 0.9210	 0.6280
l	 0.9230	 0.6270
m	 0.9220	 0.6280
n	 0.9210	 0.6270
o	 0.9230	 0.6260
p	 0.9220	 0.6270
q	 0.9200	 0.6260
r	 0.9200	 0.6270
s	 0.9200	 0.6260
t	 0.9230	 0.6270
u	 0.9220	 0.6270
v	 0.9210	 0.6260
w	 0.9230	 0.6260
x	 0.9220	 0.6270
y	 0.9210	 0.6270
z	 0.9190	 0.6270