



Full wwPDB EM Validation Report ⓘ

Mar 9, 2026 – 09:59 AM UTC

PDB ID : 9ME0 / pdb_00009me0
EMDB ID : EMD-48181
Title : Goose Parvovirus Capsid
Authors : Jabbari, K.; Mietzsch, M.; McKenna, R.
Deposited on : 2024-12-05
Resolution : 2.43 Å(reported)

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

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

A user guide is available at

<https://www.wwpdb.org/validation/2017/EMValidationReportHelp>

with specific help available everywhere you see the ⓘ symbol.

The types of validation reports are described at

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

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

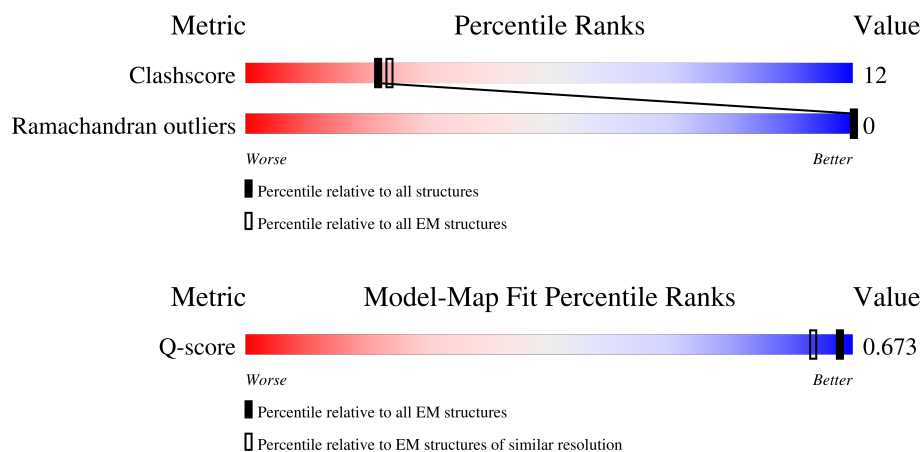
EMDB validation analysis : 0.0.1.dev132
MolProbity : 4-5-2 with Phenix2.0
Percentile statistics : 20250101.v01 (using entries in the PDB archive January 1st 2025)
EM percentile statistics : 202505.v01 (Using data in the EMDB archive up until May 2025)
MapQ : 1.9.13
Ideal geometry (proteins) : Engh &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

1 Overall quality at a glance

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

The reported resolution of this entry is 2.43 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	-
Q-score	-	25397	5787 (1.94 - 2.93)

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	732	52% 18% 29%
1	2	732	53% 18% 29%
1	3	732	52% 18% 29%
1	4	732	52% 18% 29%
1	5	732	52% 19% 29%

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Mol	Chain	Length	Quality of chain
1	6	732	
1	7	732	
1	8	732	
1	A	732	
1	B	732	
1	C	732	
1	D	732	
1	E	732	
1	F	732	
1	G	732	
1	H	732	
1	I	732	
1	J	732	
1	K	732	
1	L	732	
1	M	732	
1	N	732	
1	O	732	
1	P	732	
1	Q	732	
1	R	732	
1	S	732	
1	T	732	
1	U	732	
1	V	732	

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Mol	Chain	Length	Quality of chain
1	W	732	
1	X	732	
1	Y	732	
1	Z	732	
1	a	732	
1	b	732	
1	c	732	
1	d	732	
1	e	732	
1	f	732	
1	g	732	
1	h	732	
1	i	732	
1	j	732	
1	k	732	
1	l	732	
1	m	732	
1	n	732	
1	o	732	
1	p	732	
1	q	732	
1	r	732	
1	s	732	
1	t	732	
1	u	732	

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Mol	Chain	Length	Quality of chain
1	v	732	 52%19%29%
1	w	732	 52%18%29%
1	x	732	 52%19%29%
1	y	732	 52%18%29%
1	z	732	 53%18%29%

2 Entry composition

There is only 1 type of molecule in this entry. The entry contains 249900 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	519	Total 4165	C 2640	N 719	O 790	S 16	0	0
1	B	519	Total 4165	C 2640	N 719	O 790	S 16	0	0
1	C	519	Total 4165	C 2640	N 719	O 790	S 16	0	0
1	D	519	Total 4165	C 2640	N 719	O 790	S 16	0	0
1	E	519	Total 4165	C 2640	N 719	O 790	S 16	0	0
1	F	519	Total 4165	C 2640	N 719	O 790	S 16	0	0
1	G	519	Total 4165	C 2640	N 719	O 790	S 16	0	0
1	H	519	Total 4165	C 2640	N 719	O 790	S 16	0	0
1	I	519	Total 4165	C 2640	N 719	O 790	S 16	0	0
1	J	519	Total 4165	C 2640	N 719	O 790	S 16	0	0
1	K	519	Total 4165	C 2640	N 719	O 790	S 16	0	0
1	L	519	Total 4165	C 2640	N 719	O 790	S 16	0	0
1	M	519	Total 4165	C 2640	N 719	O 790	S 16	0	0
1	N	519	Total 4165	C 2640	N 719	O 790	S 16	0	0
1	O	519	Total 4165	C 2640	N 719	O 790	S 16	0	0
1	P	519	Total 4165	C 2640	N 719	O 790	S 16	0	0
1	Q	519	Total 4165	C 2640	N 719	O 790	S 16	0	0

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Mol	Chain	Residues	Atoms					AltConf	Trace
1	R	519	Total 4165	C 2640	N 719	O 790	S 16	0	0
1	S	519	Total 4165	C 2640	N 719	O 790	S 16	0	0
1	T	519	Total 4165	C 2640	N 719	O 790	S 16	0	0
1	U	519	Total 4165	C 2640	N 719	O 790	S 16	0	0
1	V	519	Total 4165	C 2640	N 719	O 790	S 16	0	0
1	W	519	Total 4165	C 2640	N 719	O 790	S 16	0	0
1	X	519	Total 4165	C 2640	N 719	O 790	S 16	0	0
1	Y	519	Total 4165	C 2640	N 719	O 790	S 16	0	0
1	Z	519	Total 4165	C 2640	N 719	O 790	S 16	0	0
1	a	519	Total 4165	C 2640	N 719	O 790	S 16	0	0
1	b	519	Total 4165	C 2640	N 719	O 790	S 16	0	0
1	c	519	Total 4165	C 2640	N 719	O 790	S 16	0	0
1	d	519	Total 4165	C 2640	N 719	O 790	S 16	0	0
1	e	519	Total 4165	C 2640	N 719	O 790	S 16	0	0
1	f	519	Total 4165	C 2640	N 719	O 790	S 16	0	0
1	g	519	Total 4165	C 2640	N 719	O 790	S 16	0	0
1	h	519	Total 4165	C 2640	N 719	O 790	S 16	0	0
1	i	519	Total 4165	C 2640	N 719	O 790	S 16	0	0
1	j	519	Total 4165	C 2640	N 719	O 790	S 16	0	0
1	k	519	Total 4165	C 2640	N 719	O 790	S 16	0	0
1	l	519	Total 4165	C 2640	N 719	O 790	S 16	0	0

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Mol	Chain	Residues	Atoms					AltConf	Trace
1	m	519	Total 4165	C 2640	N 719	O 790	S 16	0	0
1	n	519	Total 4165	C 2640	N 719	O 790	S 16	0	0
1	o	519	Total 4165	C 2640	N 719	O 790	S 16	0	0
1	p	519	Total 4165	C 2640	N 719	O 790	S 16	0	0
1	q	519	Total 4165	C 2640	N 719	O 790	S 16	0	0
1	r	519	Total 4165	C 2640	N 719	O 790	S 16	0	0
1	s	519	Total 4165	C 2640	N 719	O 790	S 16	0	0
1	t	519	Total 4165	C 2640	N 719	O 790	S 16	0	0
1	u	519	Total 4165	C 2640	N 719	O 790	S 16	0	0
1	v	519	Total 4165	C 2640	N 719	O 790	S 16	0	0
1	w	519	Total 4165	C 2640	N 719	O 790	S 16	0	0
1	x	519	Total 4165	C 2640	N 719	O 790	S 16	0	0
1	y	519	Total 4165	C 2640	N 719	O 790	S 16	0	0
1	z	519	Total 4165	C 2640	N 719	O 790	S 16	0	0
1	1	519	Total 4165	C 2640	N 719	O 790	S 16	0	0
1	2	519	Total 4165	C 2640	N 719	O 790	S 16	0	0
1	3	519	Total 4165	C 2640	N 719	O 790	S 16	0	0
1	4	519	Total 4165	C 2640	N 719	O 790	S 16	0	0
1	5	519	Total 4165	C 2640	N 719	O 790	S 16	0	0
1	6	519	Total 4165	C 2640	N 719	O 790	S 16	0	0
1	7	519	Total 4165	C 2640	N 719	O 790	S 16	0	0

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Mol	Chain	Residues	Atoms					AltConf	Trace
1	8	519	Total	C	N	O	S	0	0
			4165	2640	719	790	16		

There are 60 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
A	615	TRP	GLY	conflict	UNP Q67666
B	615	TRP	GLY	conflict	UNP Q67666
C	615	TRP	GLY	conflict	UNP Q67666
D	615	TRP	GLY	conflict	UNP Q67666
E	615	TRP	GLY	conflict	UNP Q67666
F	615	TRP	GLY	conflict	UNP Q67666
G	615	TRP	GLY	conflict	UNP Q67666
H	615	TRP	GLY	conflict	UNP Q67666
I	615	TRP	GLY	conflict	UNP Q67666
J	615	TRP	GLY	conflict	UNP Q67666
K	615	TRP	GLY	conflict	UNP Q67666
L	615	TRP	GLY	conflict	UNP Q67666
M	615	TRP	GLY	conflict	UNP Q67666
N	615	TRP	GLY	conflict	UNP Q67666
O	615	TRP	GLY	conflict	UNP Q67666
P	615	TRP	GLY	conflict	UNP Q67666
Q	615	TRP	GLY	conflict	UNP Q67666
R	615	TRP	GLY	conflict	UNP Q67666
S	615	TRP	GLY	conflict	UNP Q67666
T	615	TRP	GLY	conflict	UNP Q67666
U	615	TRP	GLY	conflict	UNP Q67666
V	615	TRP	GLY	conflict	UNP Q67666
W	615	TRP	GLY	conflict	UNP Q67666
X	615	TRP	GLY	conflict	UNP Q67666
Y	615	TRP	GLY	conflict	UNP Q67666
Z	615	TRP	GLY	conflict	UNP Q67666
a	615	TRP	GLY	conflict	UNP Q67666
b	615	TRP	GLY	conflict	UNP Q67666
c	615	TRP	GLY	conflict	UNP Q67666
d	615	TRP	GLY	conflict	UNP Q67666
e	615	TRP	GLY	conflict	UNP Q67666
f	615	TRP	GLY	conflict	UNP Q67666
g	615	TRP	GLY	conflict	UNP Q67666
h	615	TRP	GLY	conflict	UNP Q67666
i	615	TRP	GLY	conflict	UNP Q67666
j	615	TRP	GLY	conflict	UNP Q67666

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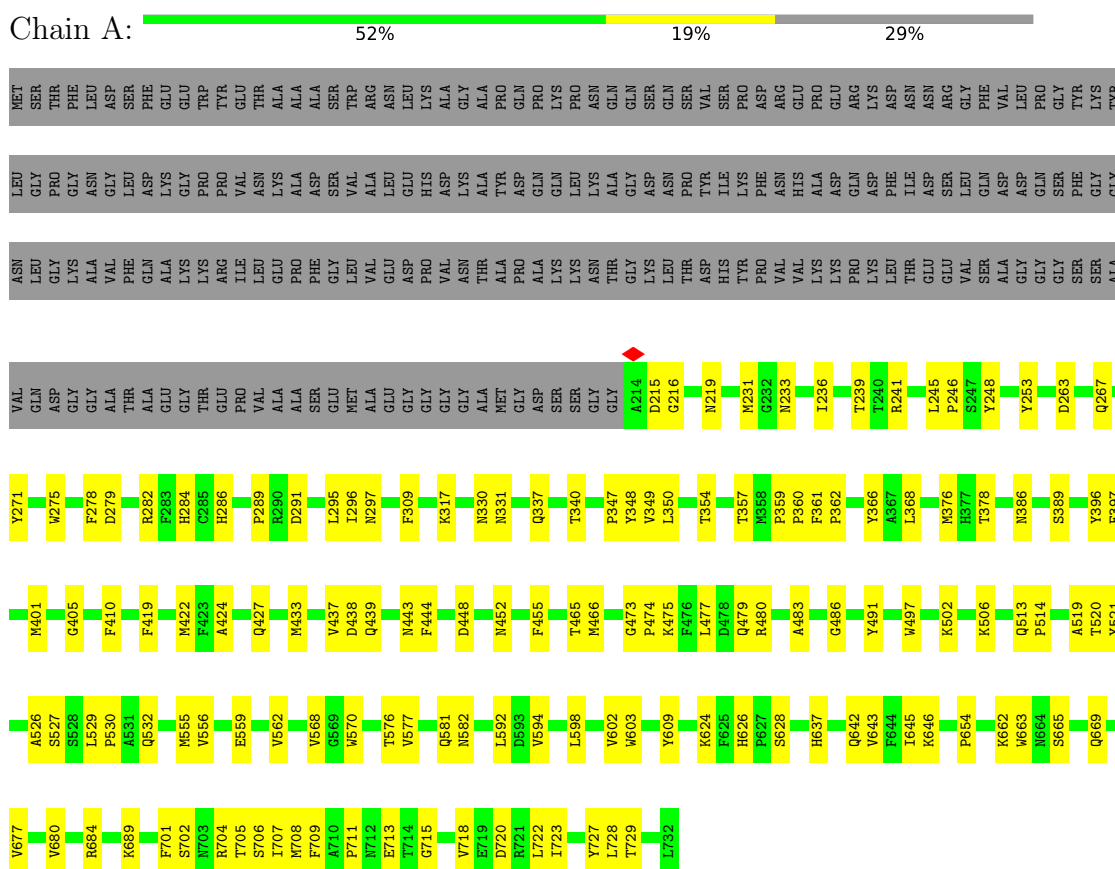
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Chain	Residue	Modelled	Actual	Comment	Reference
k	615	TRP	GLY	conflict	UNP Q67666
l	615	TRP	GLY	conflict	UNP Q67666
m	615	TRP	GLY	conflict	UNP Q67666
n	615	TRP	GLY	conflict	UNP Q67666
o	615	TRP	GLY	conflict	UNP Q67666
p	615	TRP	GLY	conflict	UNP Q67666
q	615	TRP	GLY	conflict	UNP Q67666
r	615	TRP	GLY	conflict	UNP Q67666
s	615	TRP	GLY	conflict	UNP Q67666
t	615	TRP	GLY	conflict	UNP Q67666
u	615	TRP	GLY	conflict	UNP Q67666
v	615	TRP	GLY	conflict	UNP Q67666
w	615	TRP	GLY	conflict	UNP Q67666
x	615	TRP	GLY	conflict	UNP Q67666
y	615	TRP	GLY	conflict	UNP Q67666
z	615	TRP	GLY	conflict	UNP Q67666
1	615	TRP	GLY	conflict	UNP Q67666
2	615	TRP	GLY	conflict	UNP Q67666
3	615	TRP	GLY	conflict	UNP Q67666
4	615	TRP	GLY	conflict	UNP Q67666
5	615	TRP	GLY	conflict	UNP Q67666
6	615	TRP	GLY	conflict	UNP Q67666
7	615	TRP	GLY	conflict	UNP Q67666
8	615	TRP	GLY	conflict	UNP Q67666

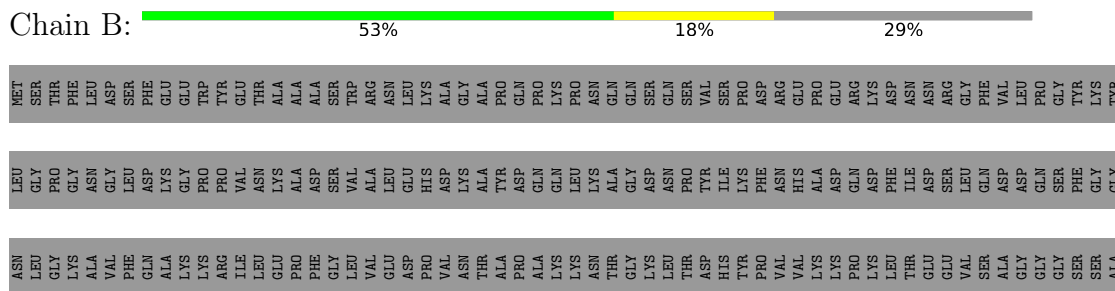
3 Residue-property plots

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

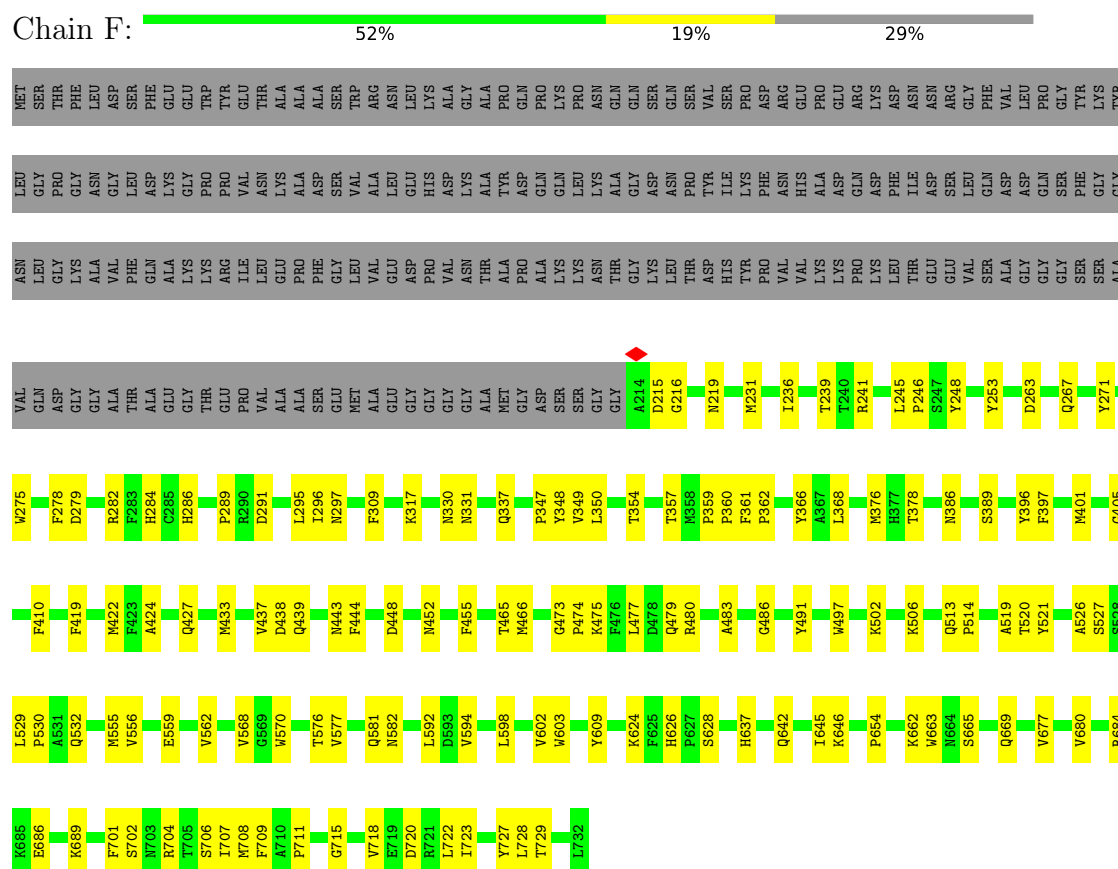


• Molecule 1: VP1



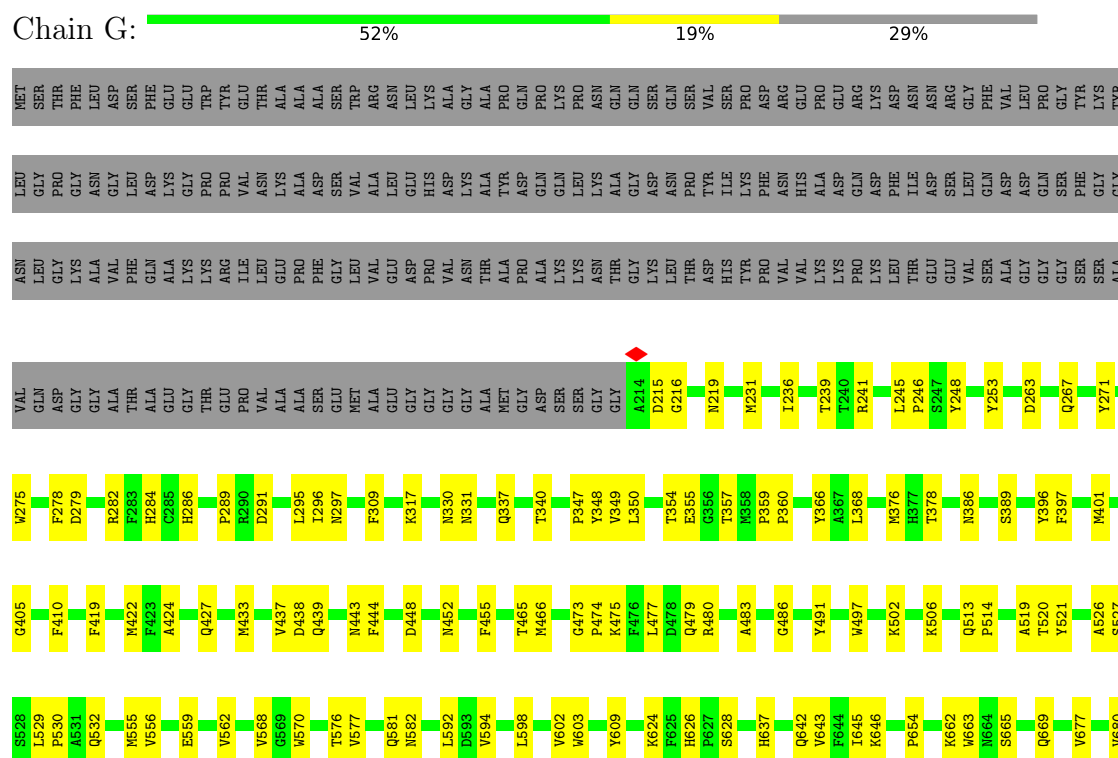


Chain F:

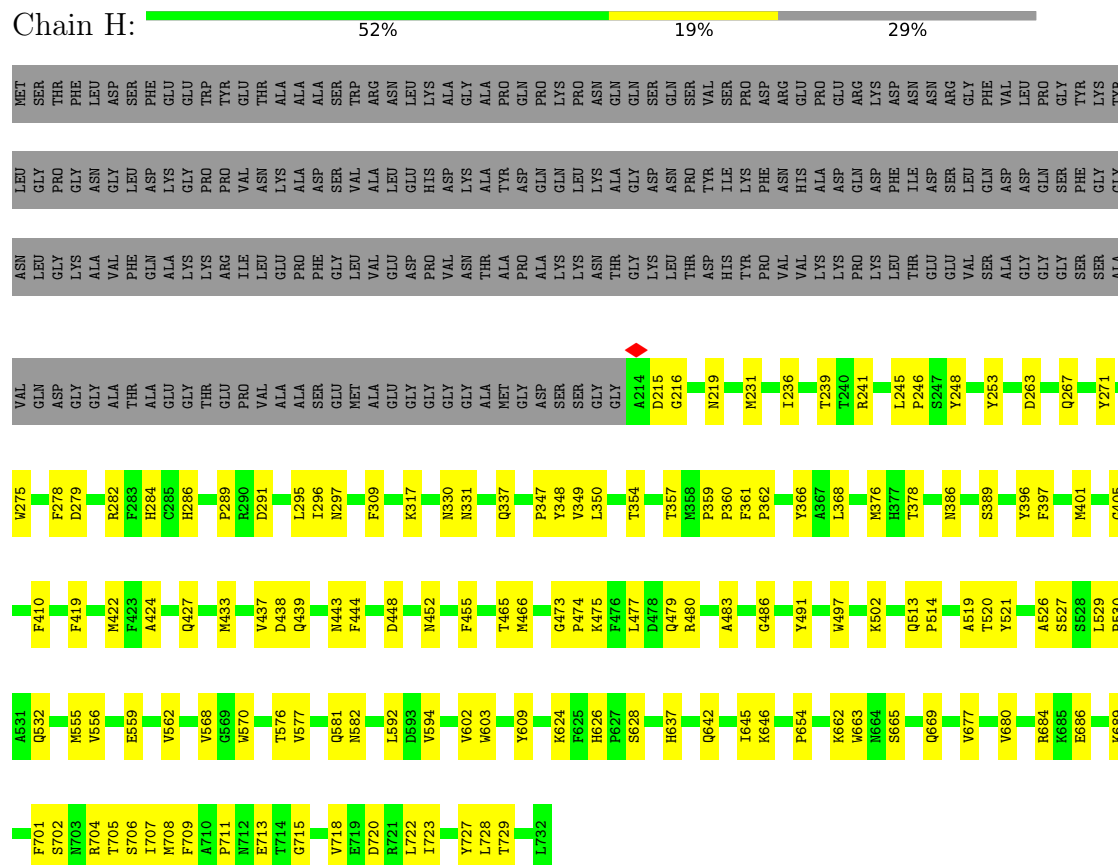


• Molecule 1: VP1

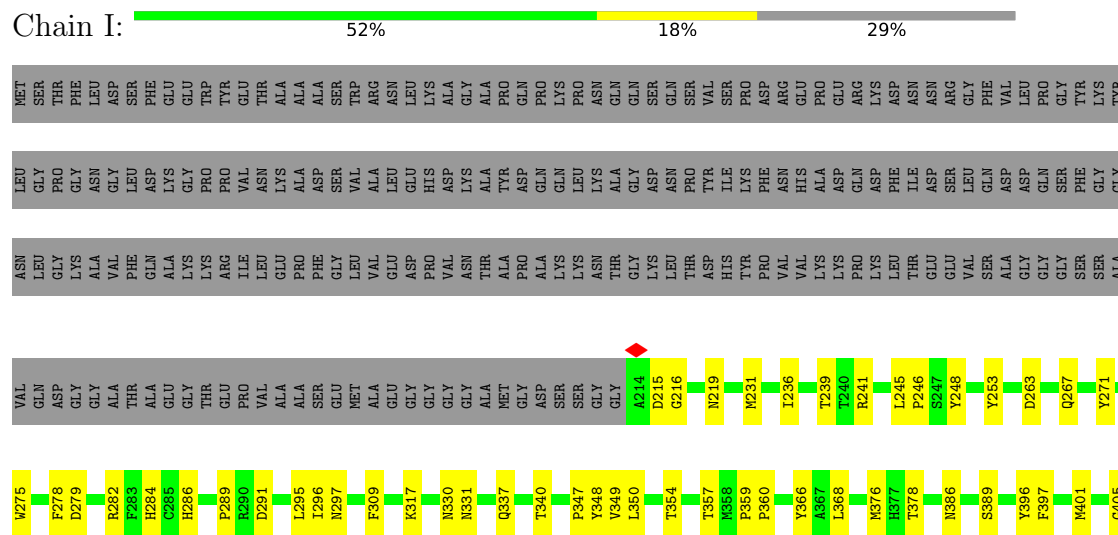
Chain G:

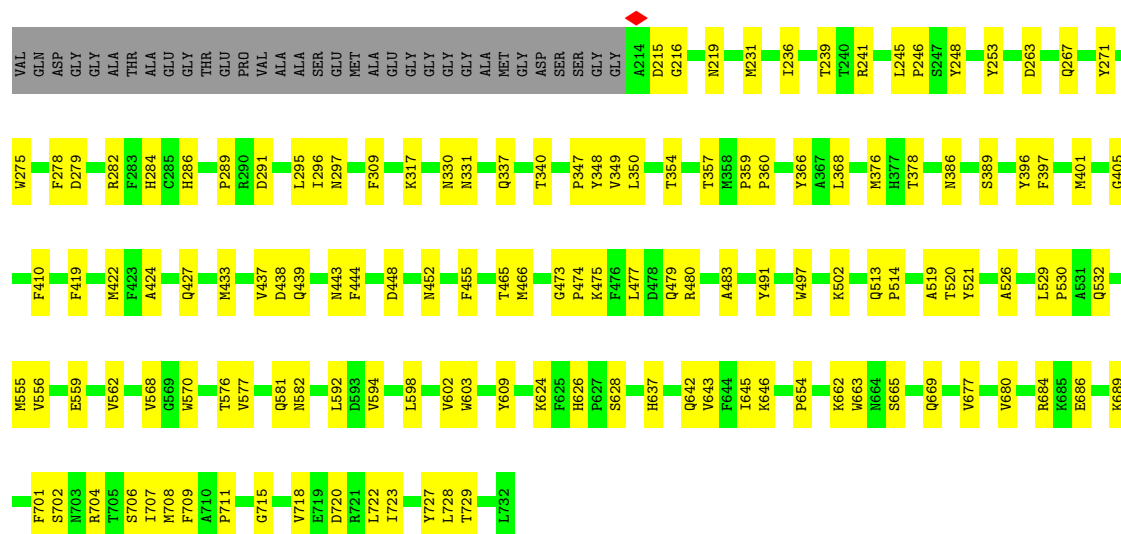


- Molecule 1: VP1

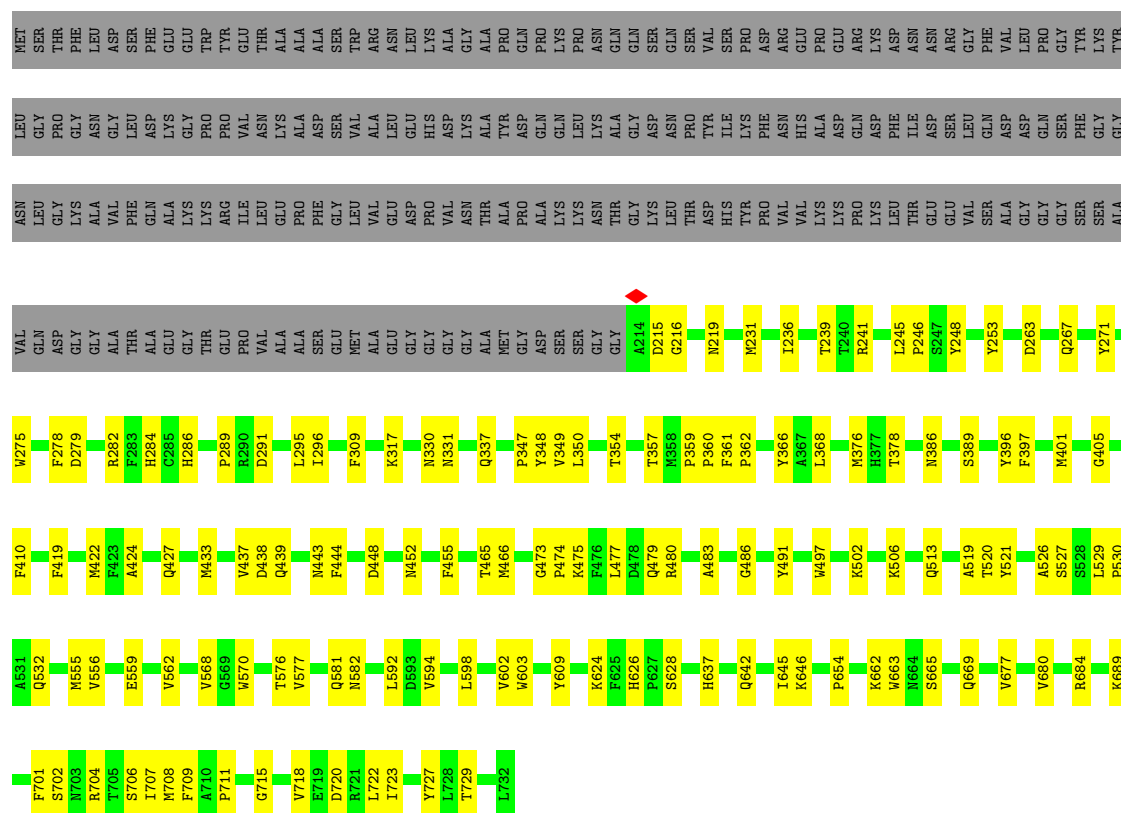


- Molecule 1: VP1

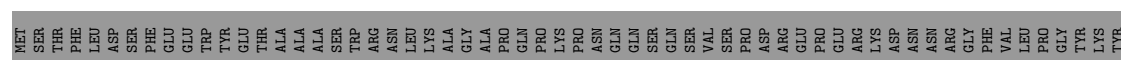


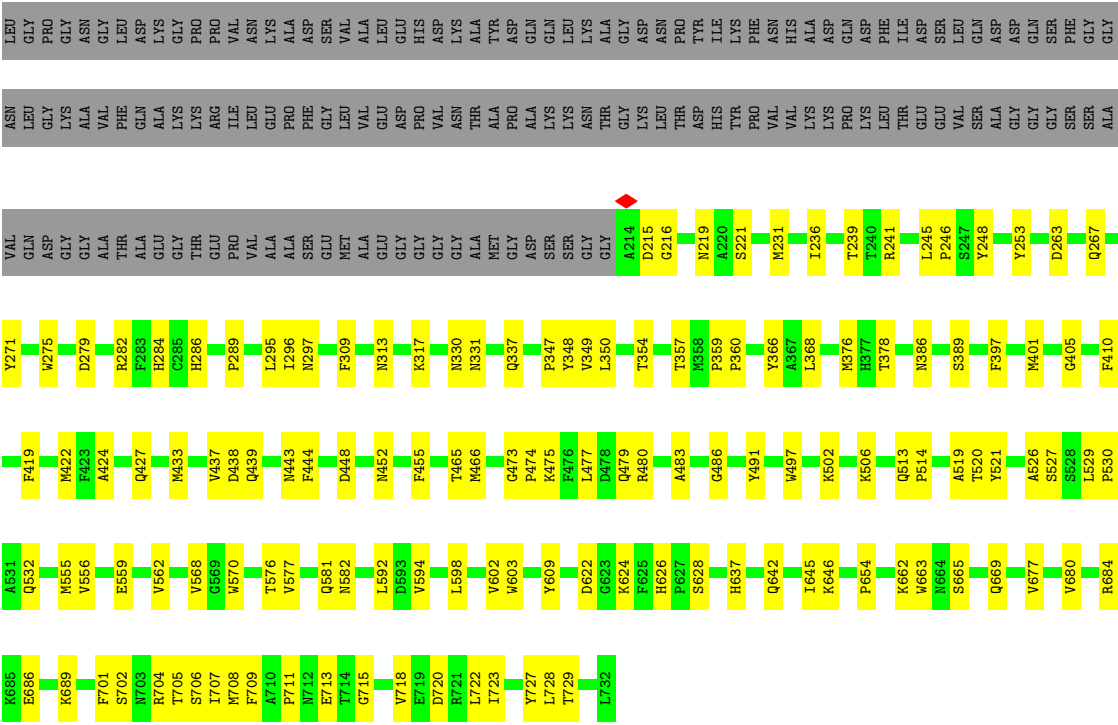


• Molecule 1: VP1



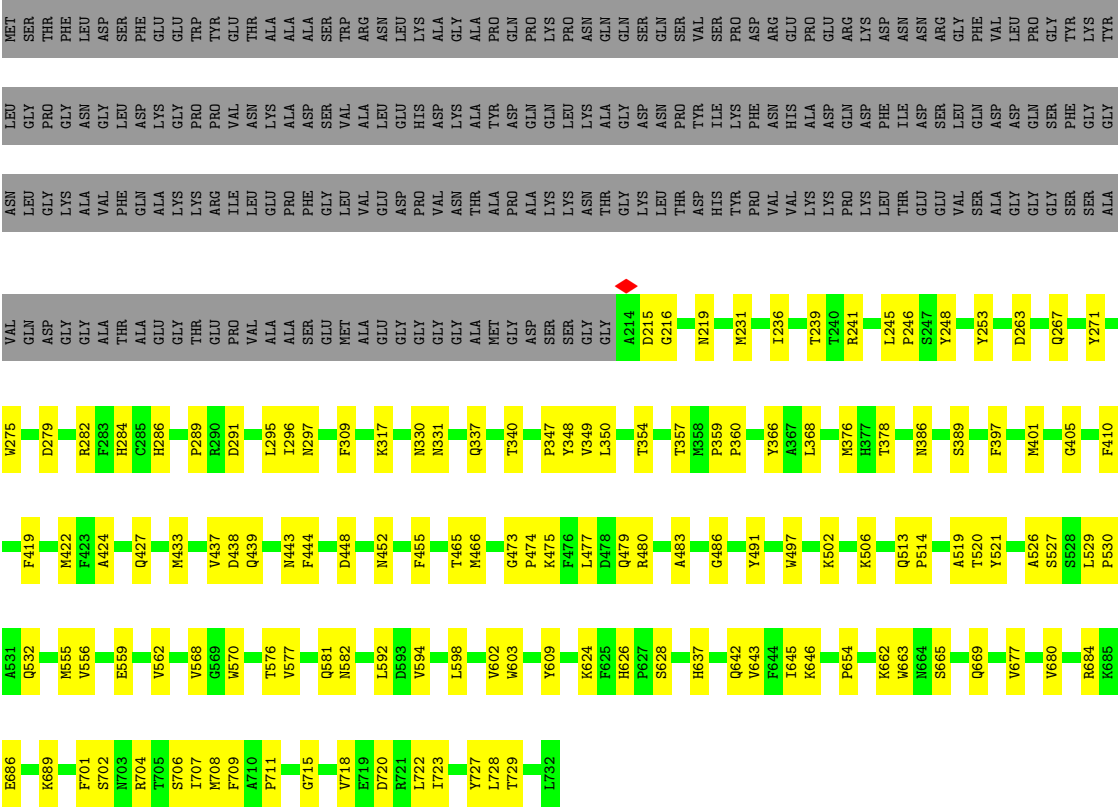
• Molecule 1: VP1





● Molecule 1: VP1

Chain N: 52% 18% 29%



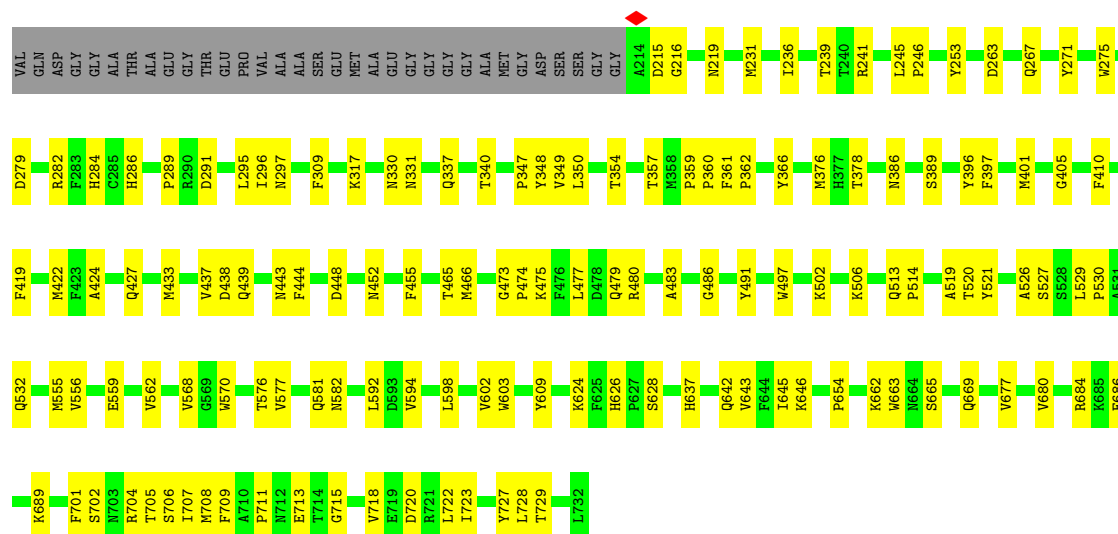
● Molecule 1: VP1

Digital Tool Type	Percentage
Digital tools	52%
Digital tools (e.g., video conferencing)	19%
Digital tools (e.g., social media)	29%



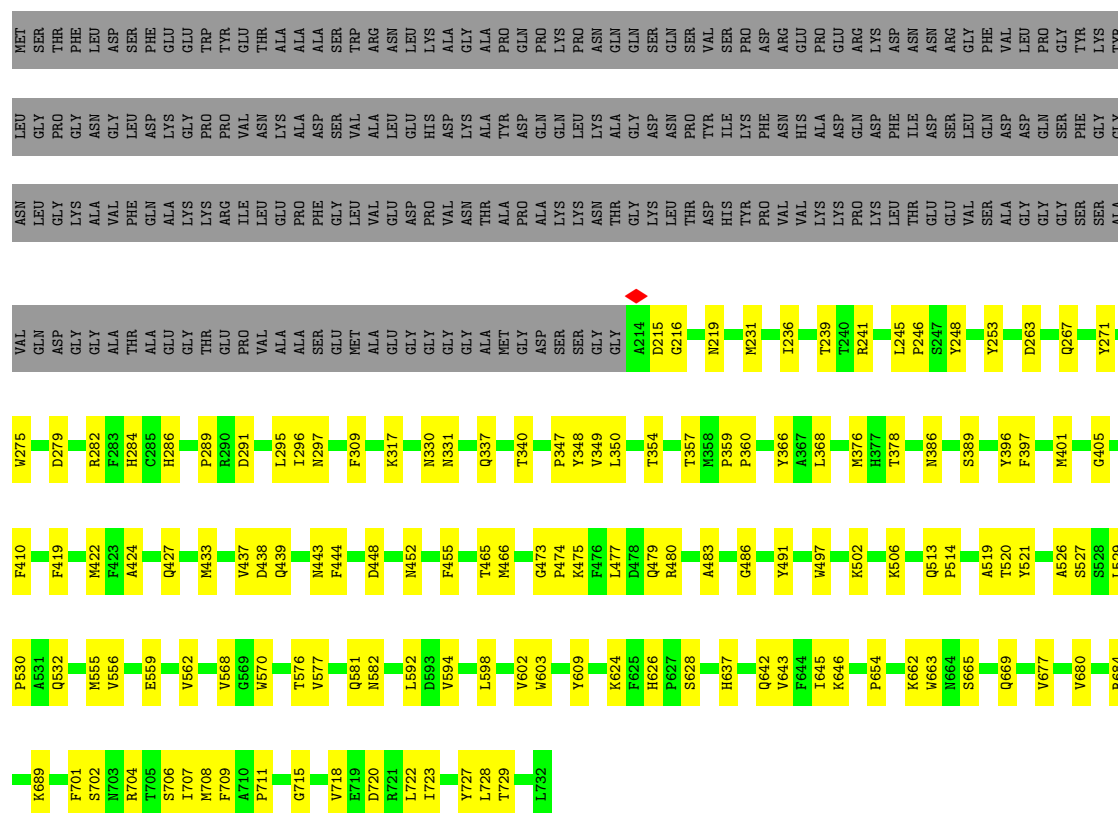
Category	Percentage
Very bad	52%
Bad	19%
Good	29%





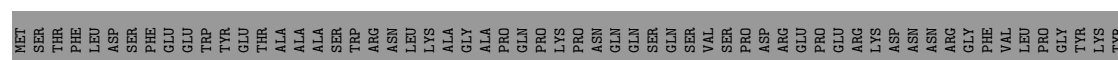
• Molecule 1: VP1

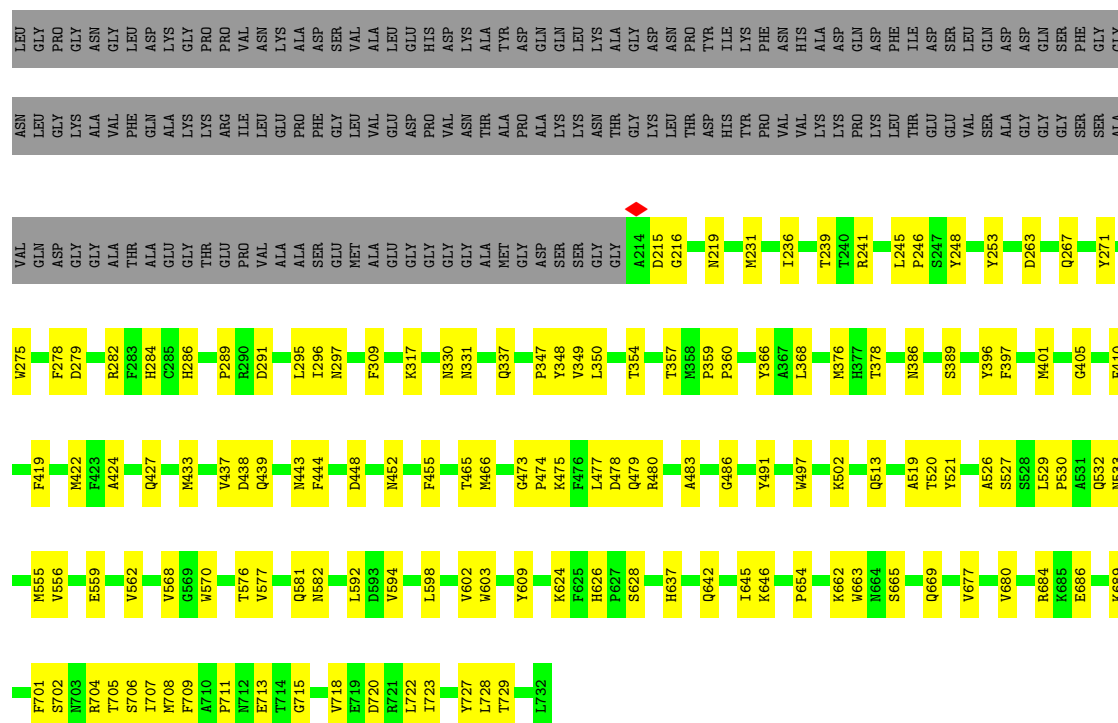
Chain U: 52% 18% 29%



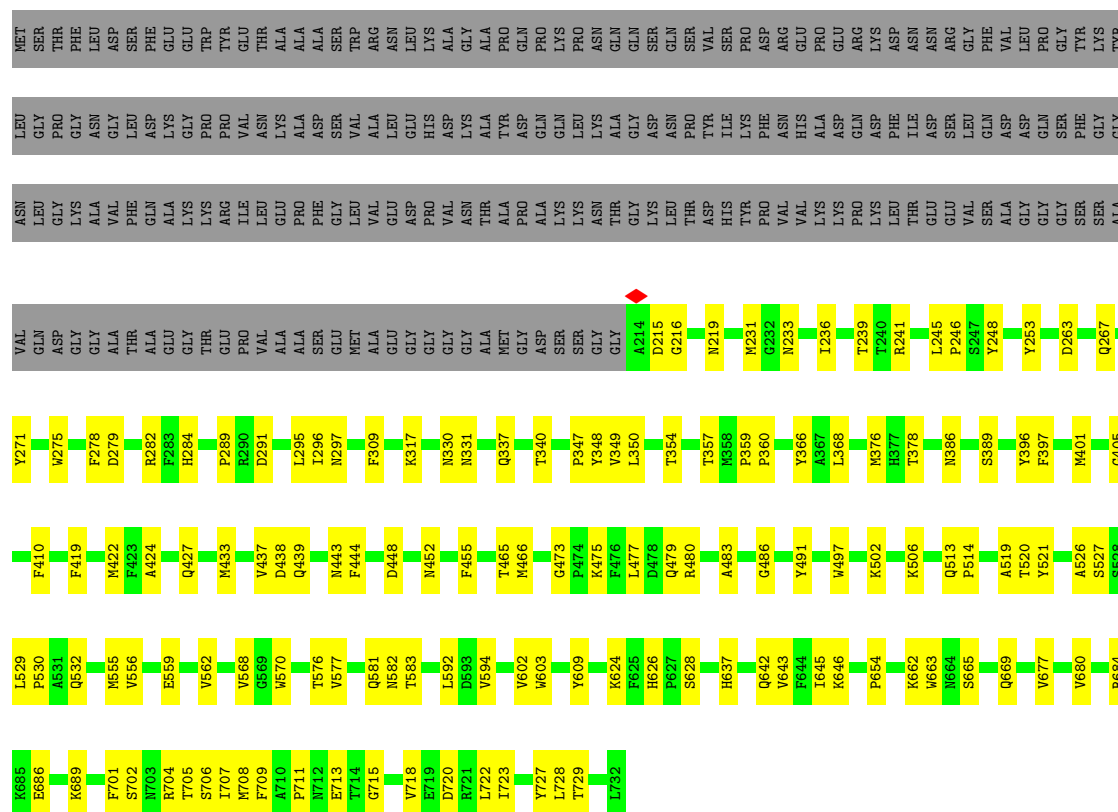
• Molecule 1: VP1

Chain V: 52% 19% 29%





- Molecule 1: VP1



- Molecule 1: VP1

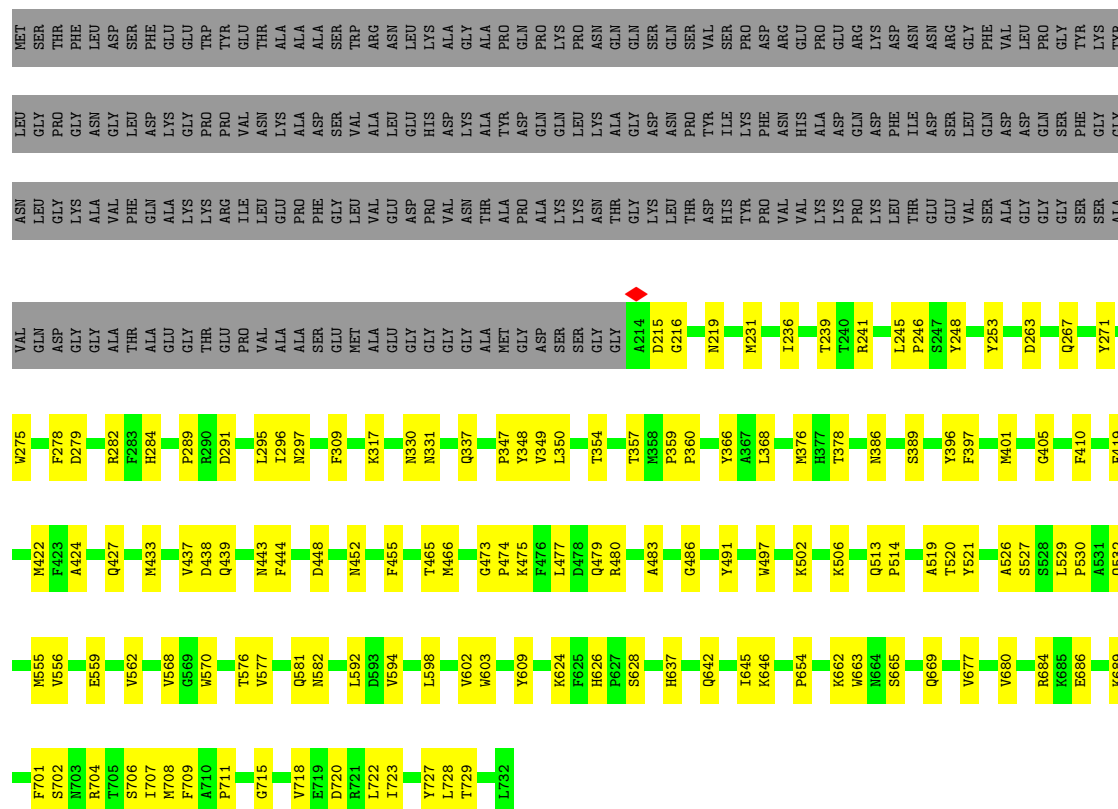
Response	Percentage
Doing a good job	52%
Not doing a good job	19%
Don't know	29%



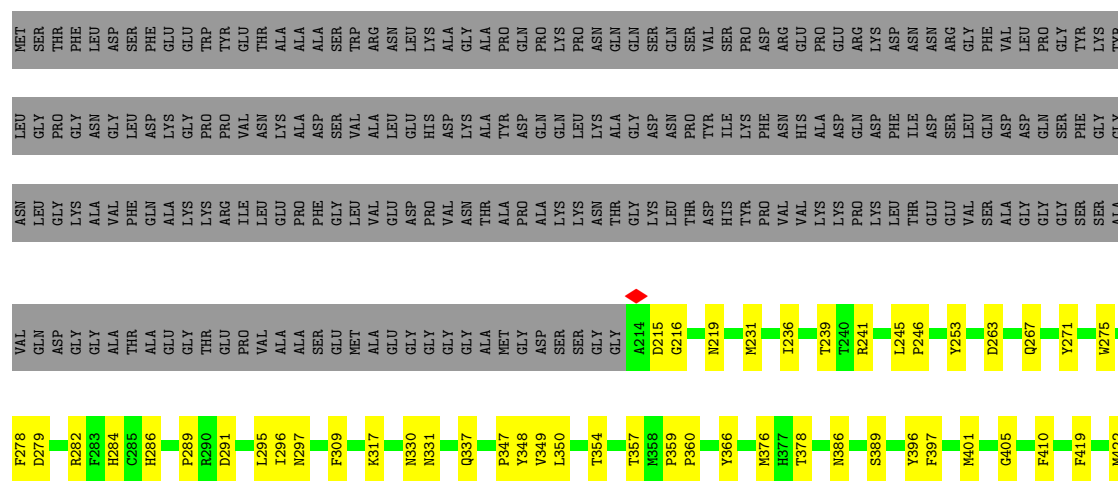
Category	Percentage
Very good	52%
Good	18%
Not good	29%

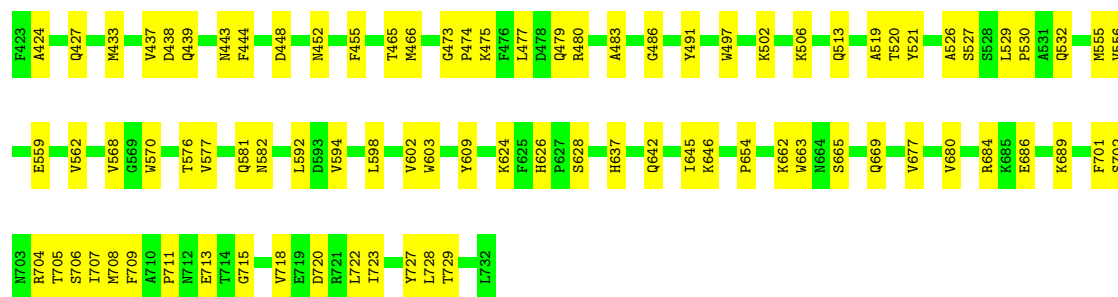


- Molecule 1: VP1



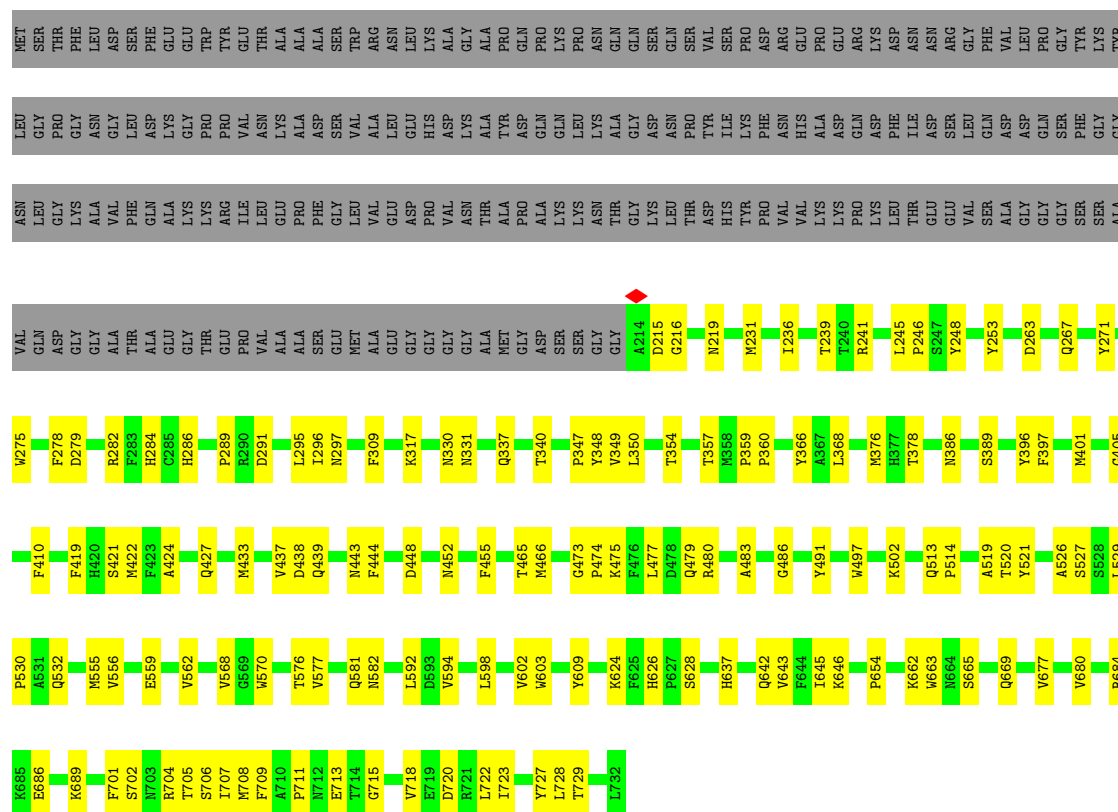
- Molecule 1: VP1





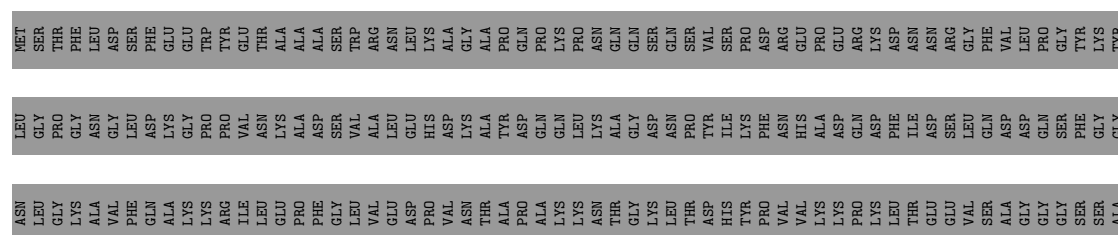
• Molecule 1: VP1

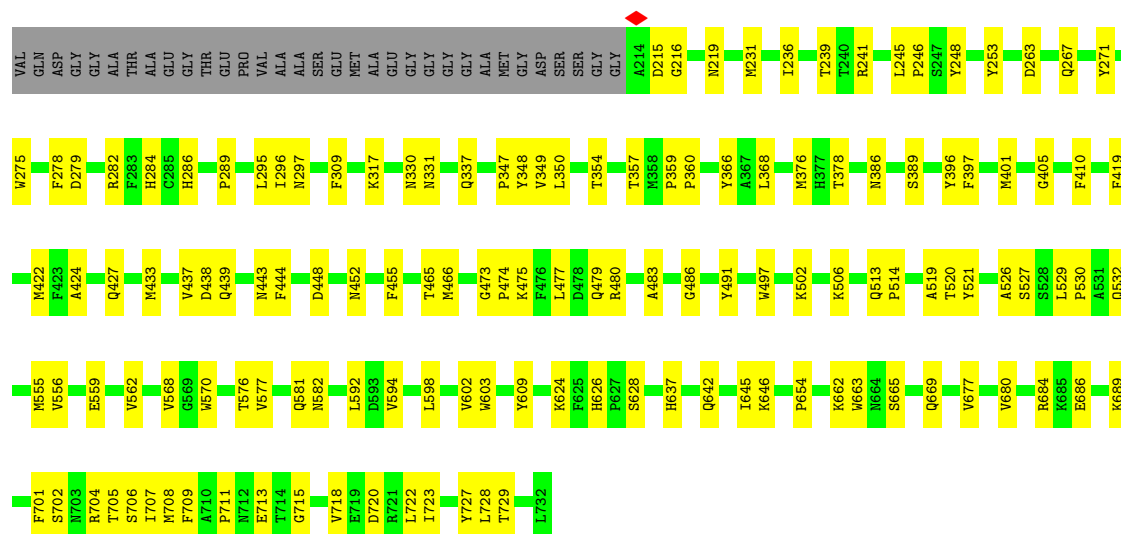
Chain b: 52% 19% 29%



• Molecule 1: VP1

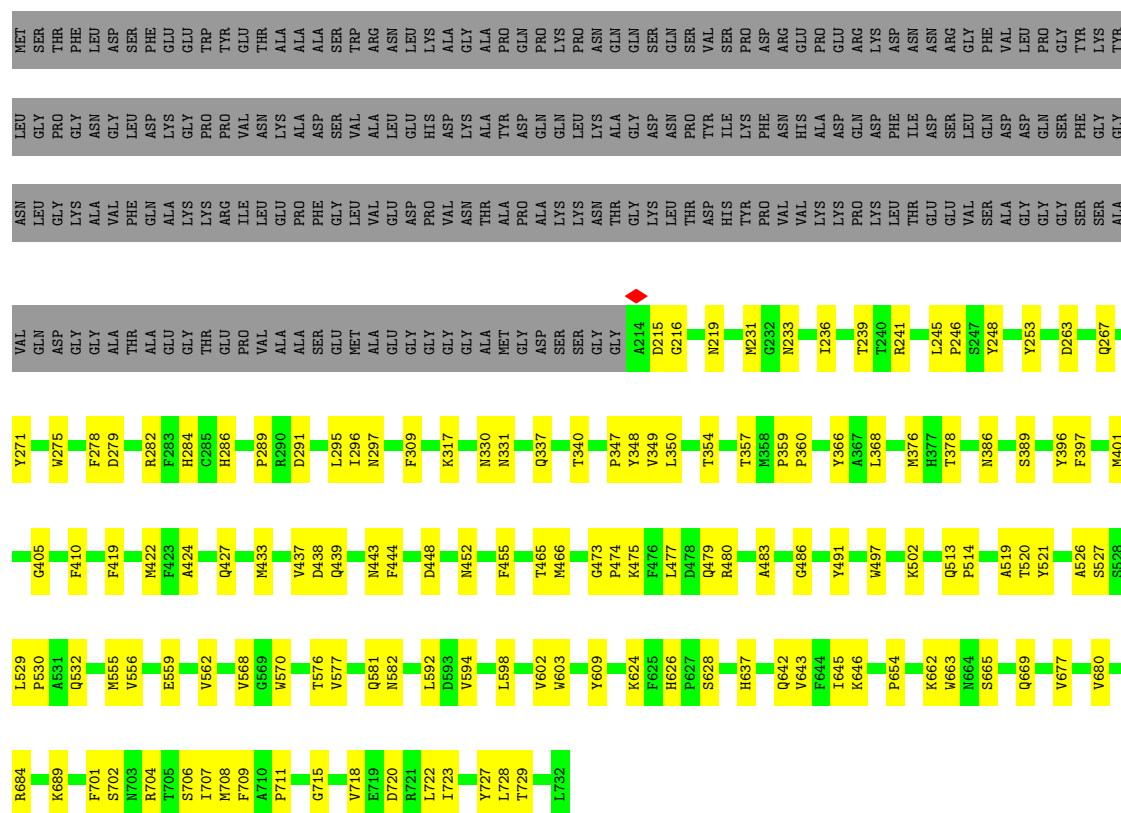
Chain c: 52% 19% 29%





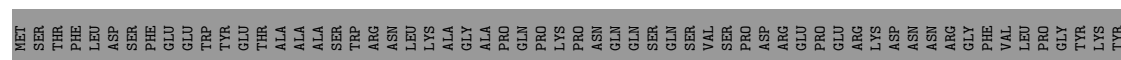
• Molecule 1: VP1

Chain d: 52% 19% 29%



• Molecule 1: VP1

Chain e: 52% 19% 29%

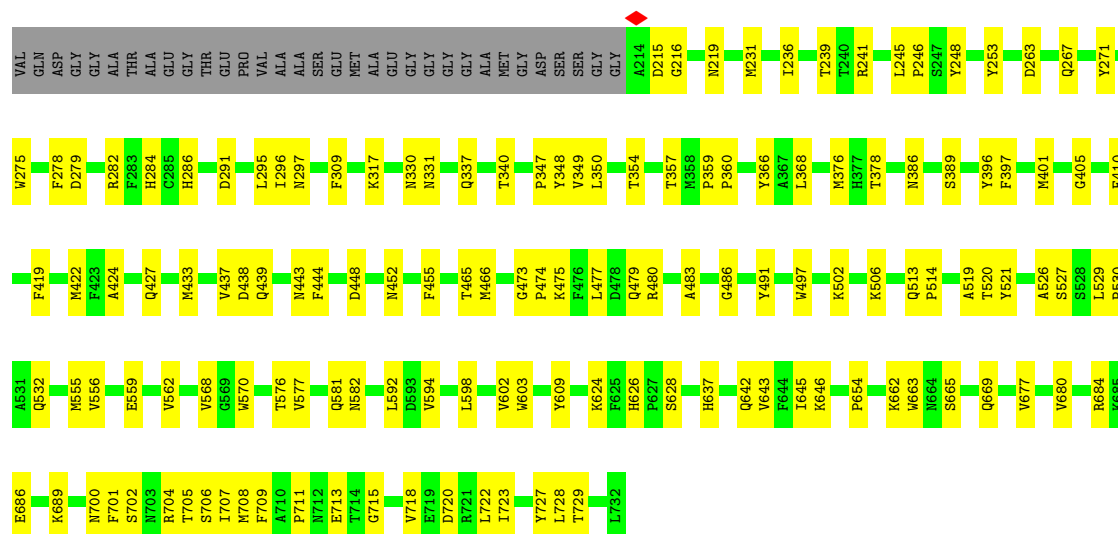


Response	Percentage
Used	53%
Not used	18%
Don't know	29%

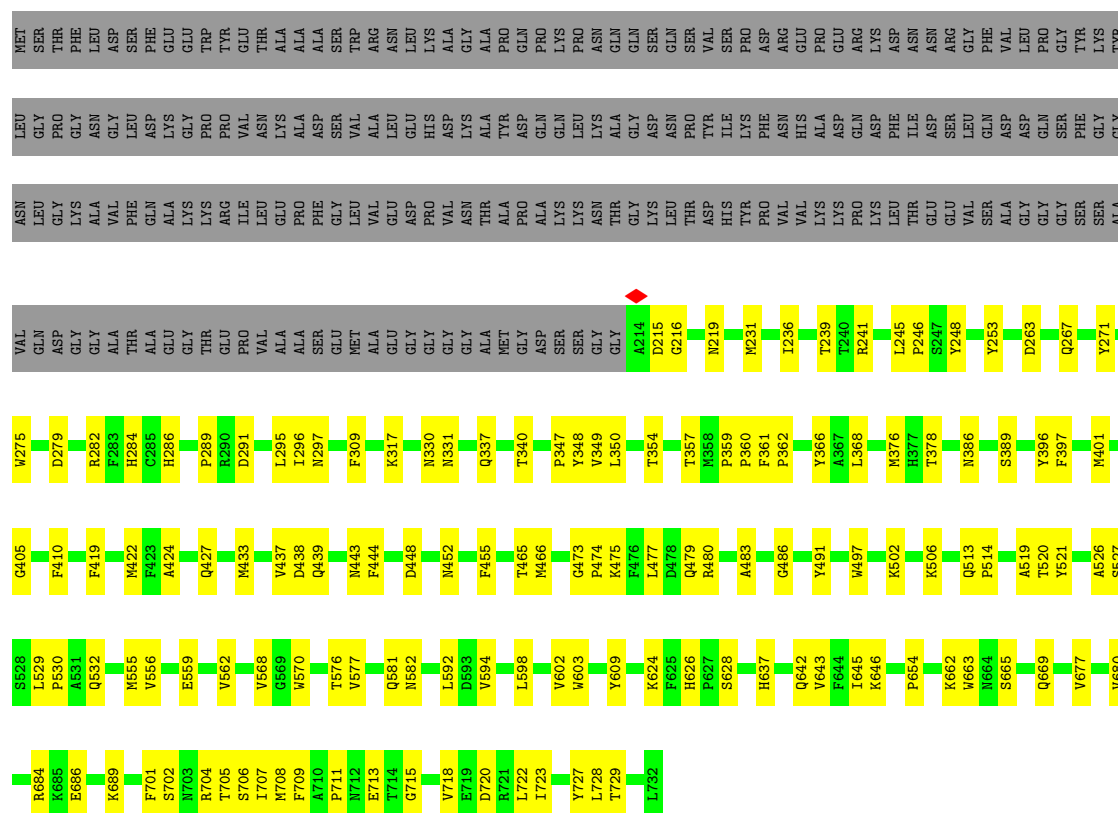


Category	Percentage
Very good	53%
Good	18%
Not good	29%

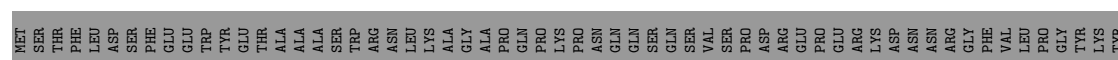




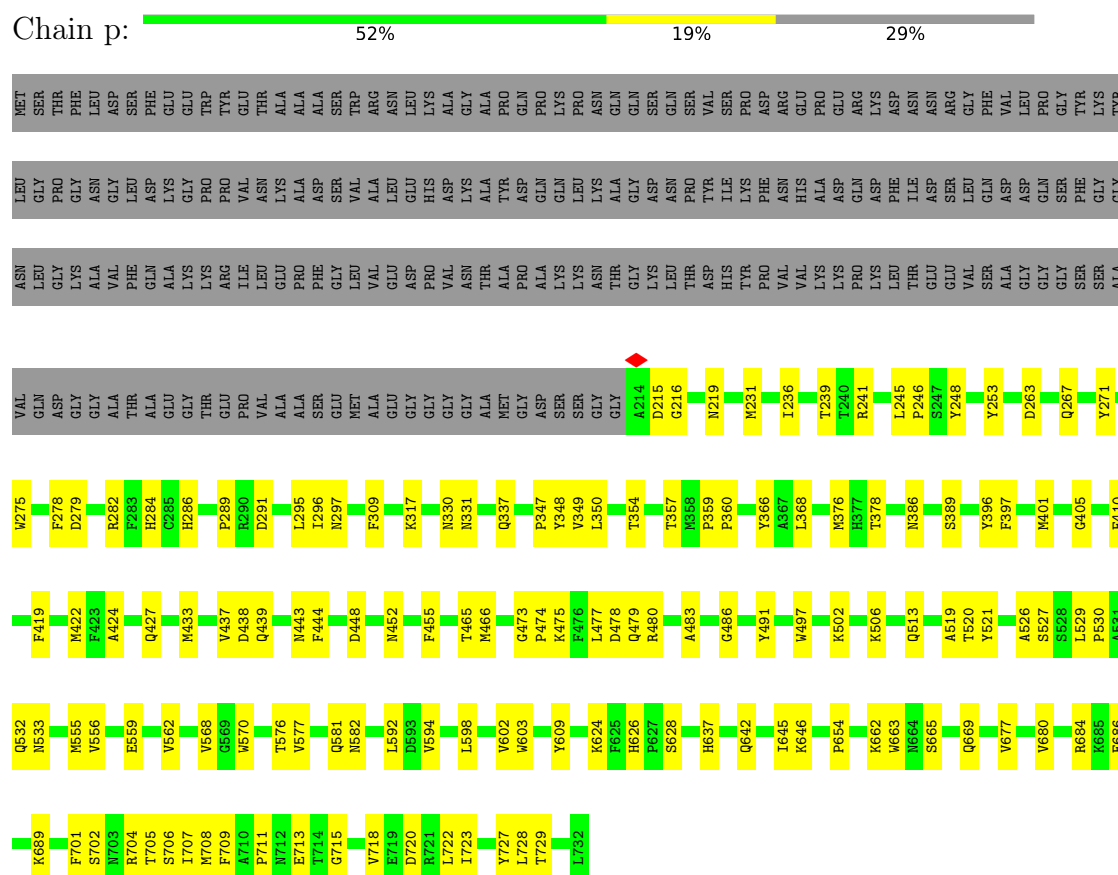
• Molecule 1: VP1



• Molecule 1: VP1

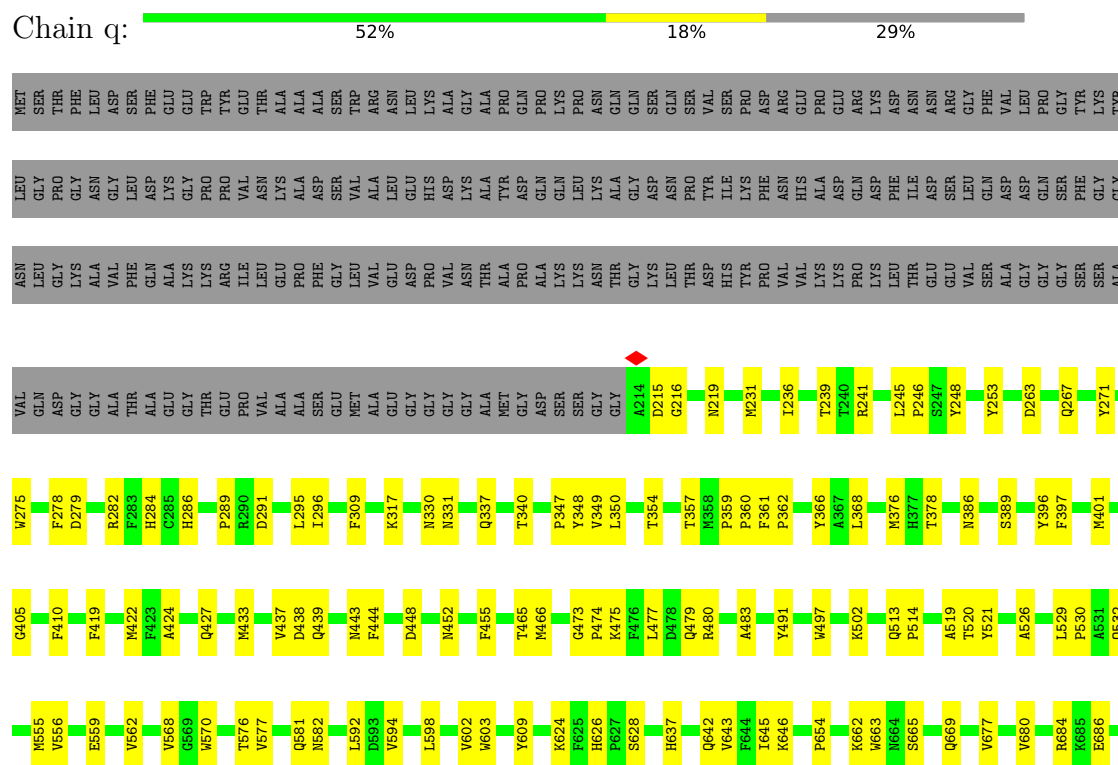


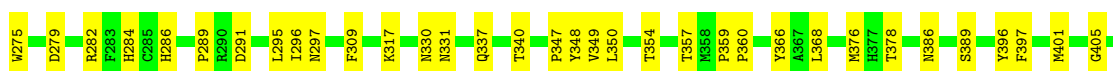
Chain p:

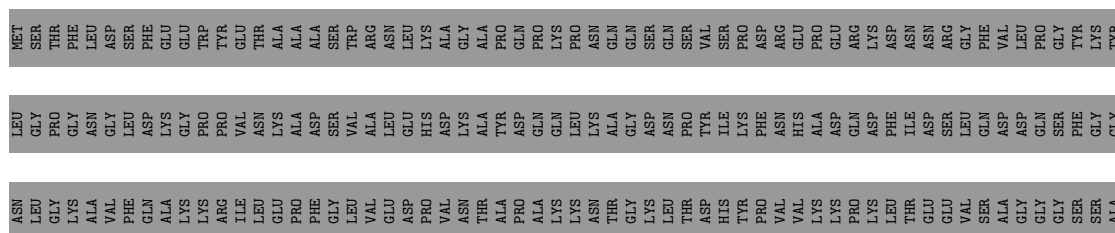


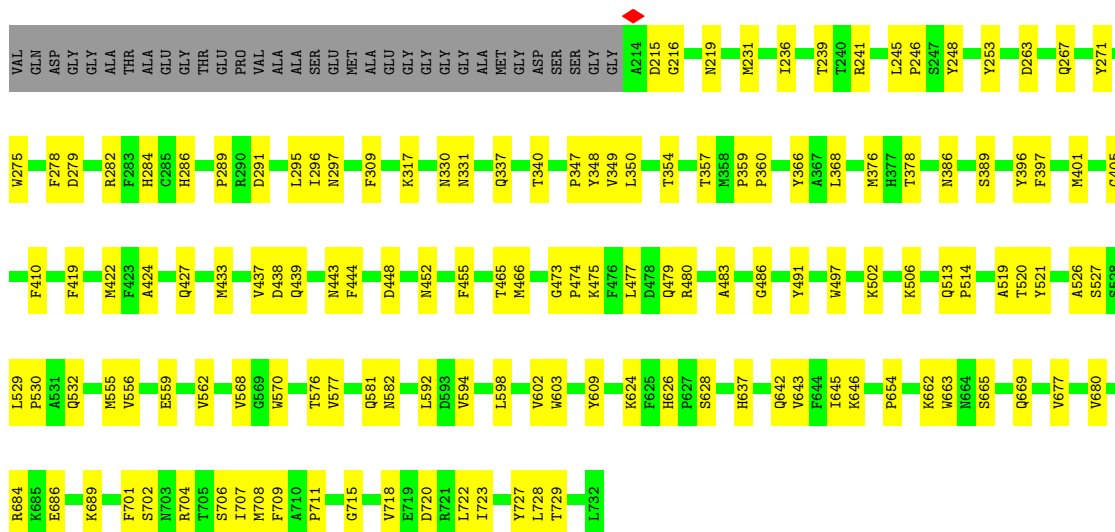
• Molecule 1: VP1

Chain q:

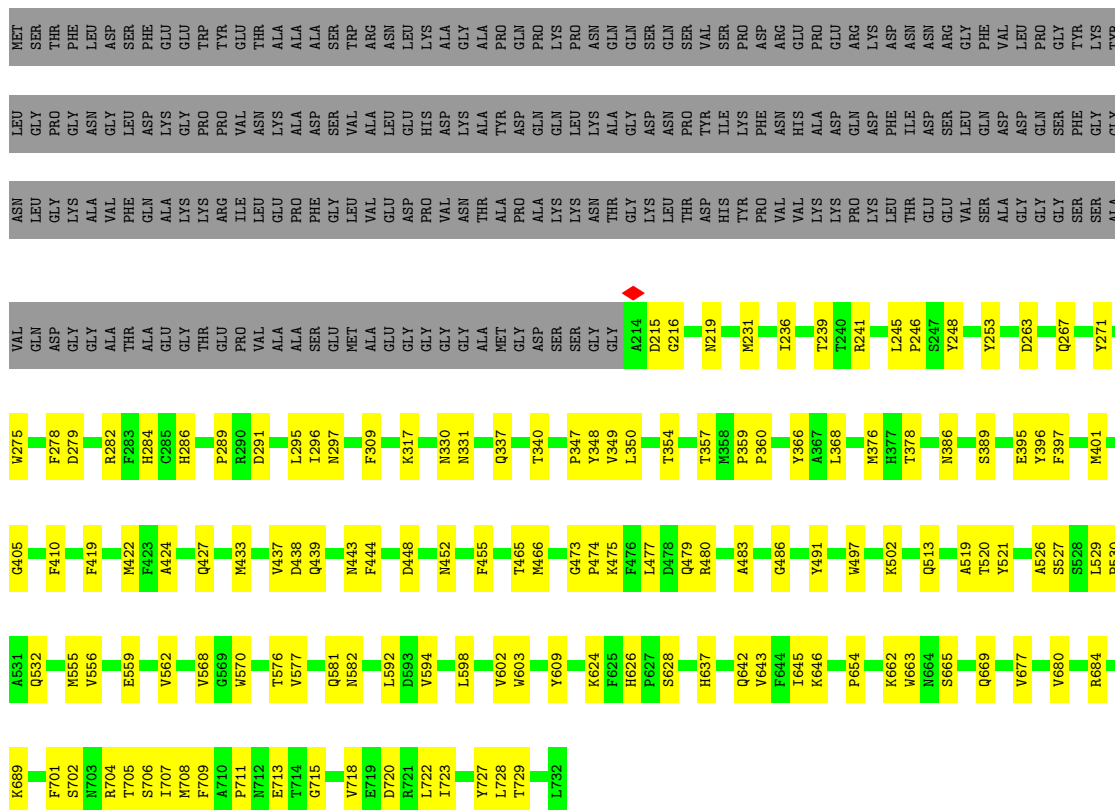




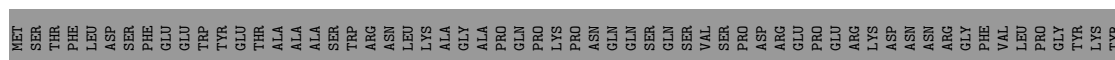




- Molecule 1: VP1



- Molecule 1: VP1

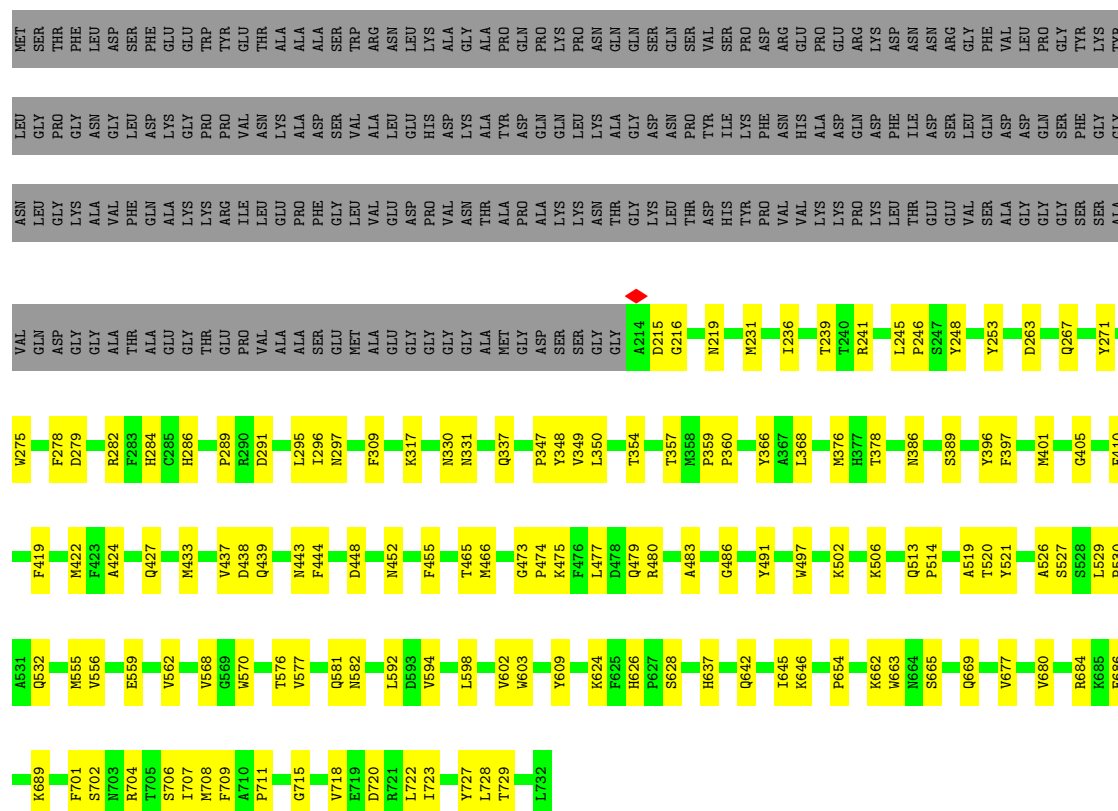


Chain y:

52%

18%

29%



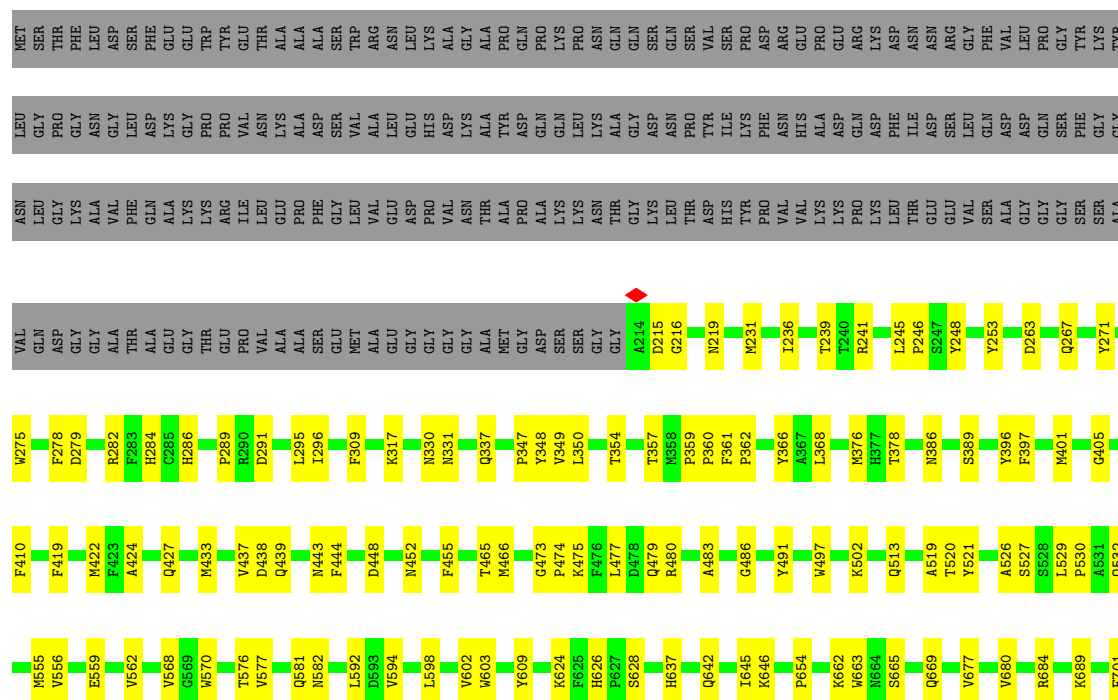
● Molecule 1: VP1

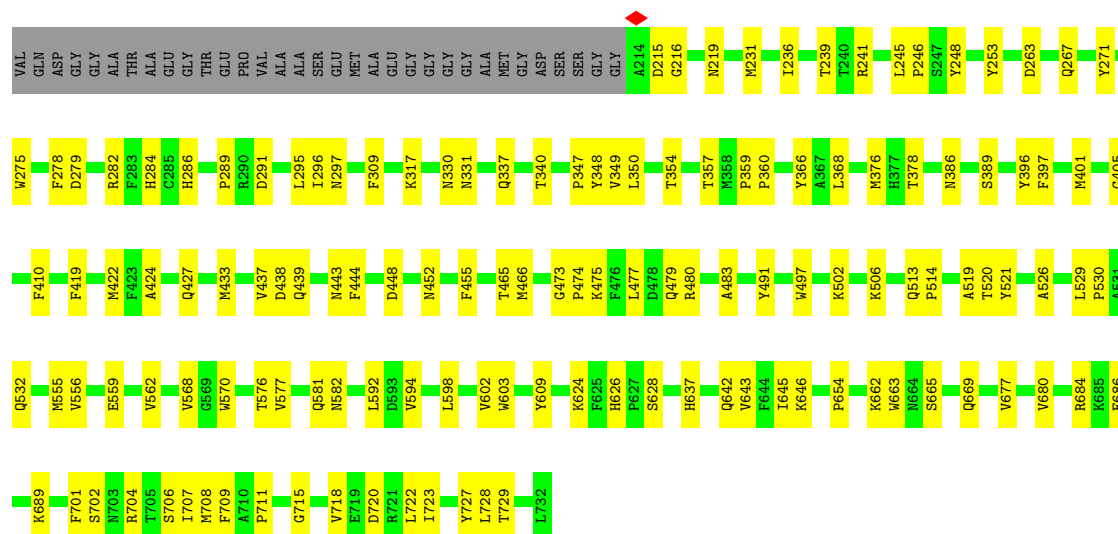
Chain z:

53%

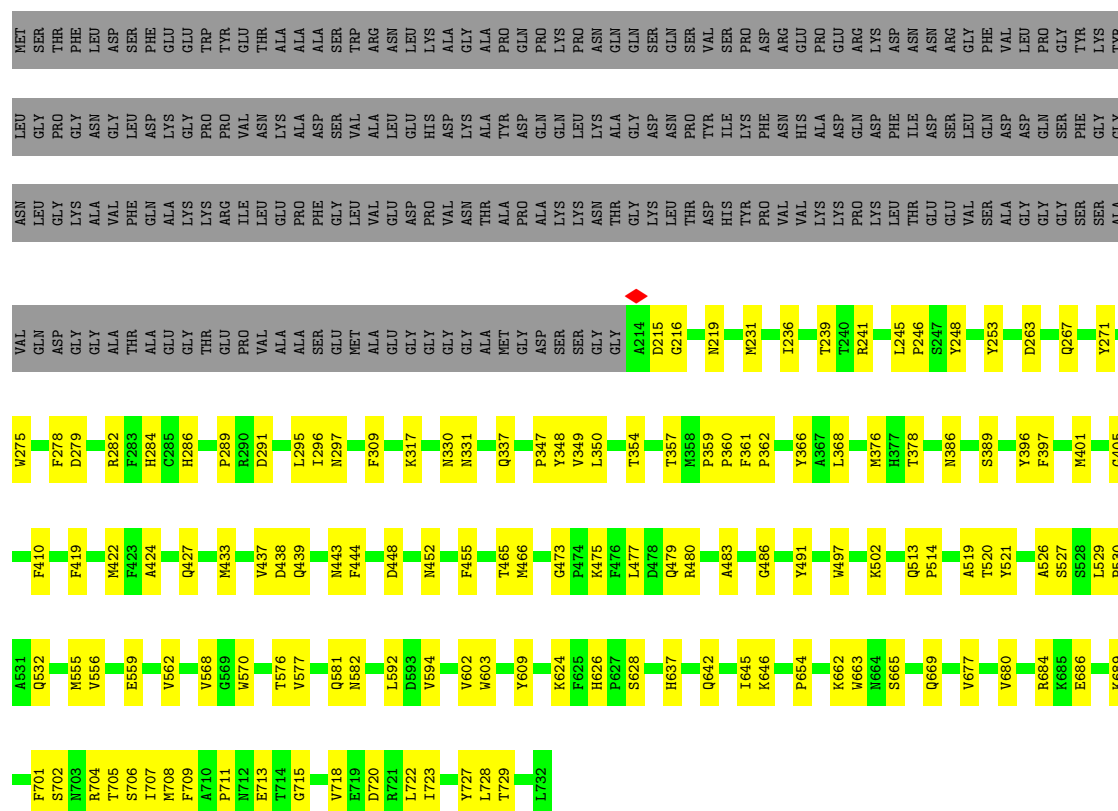
18%

29%

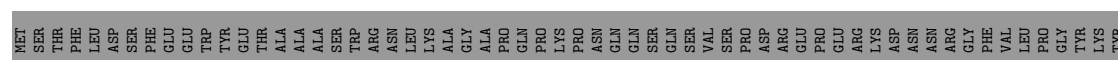


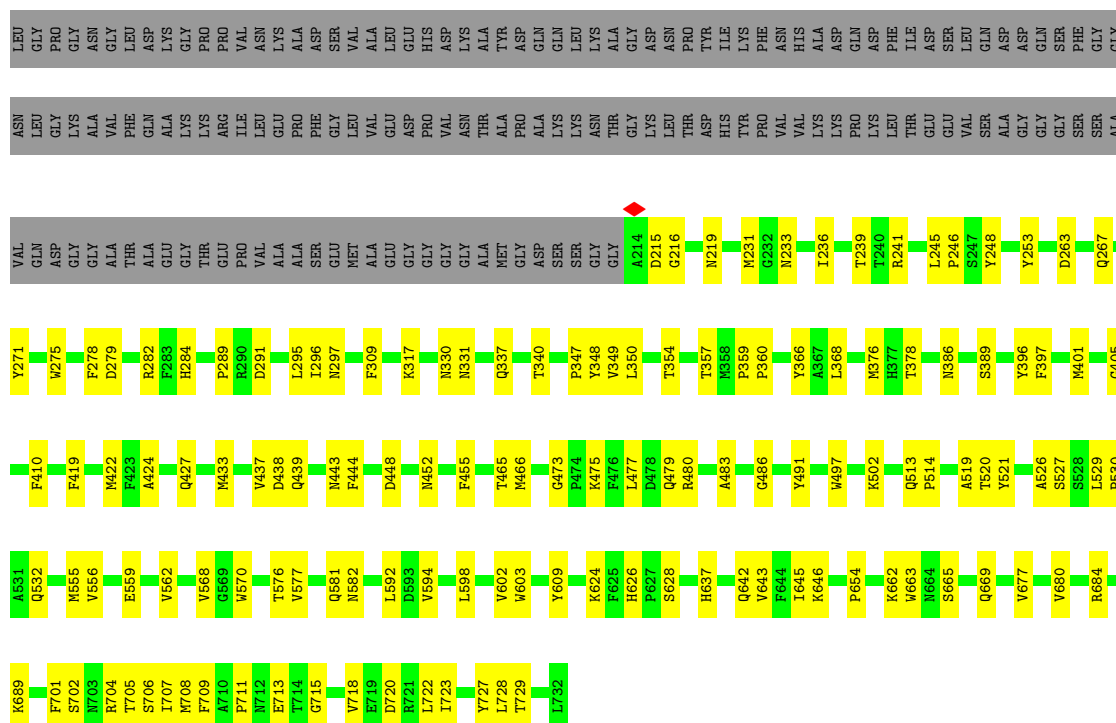


- Molecule 1: VP1



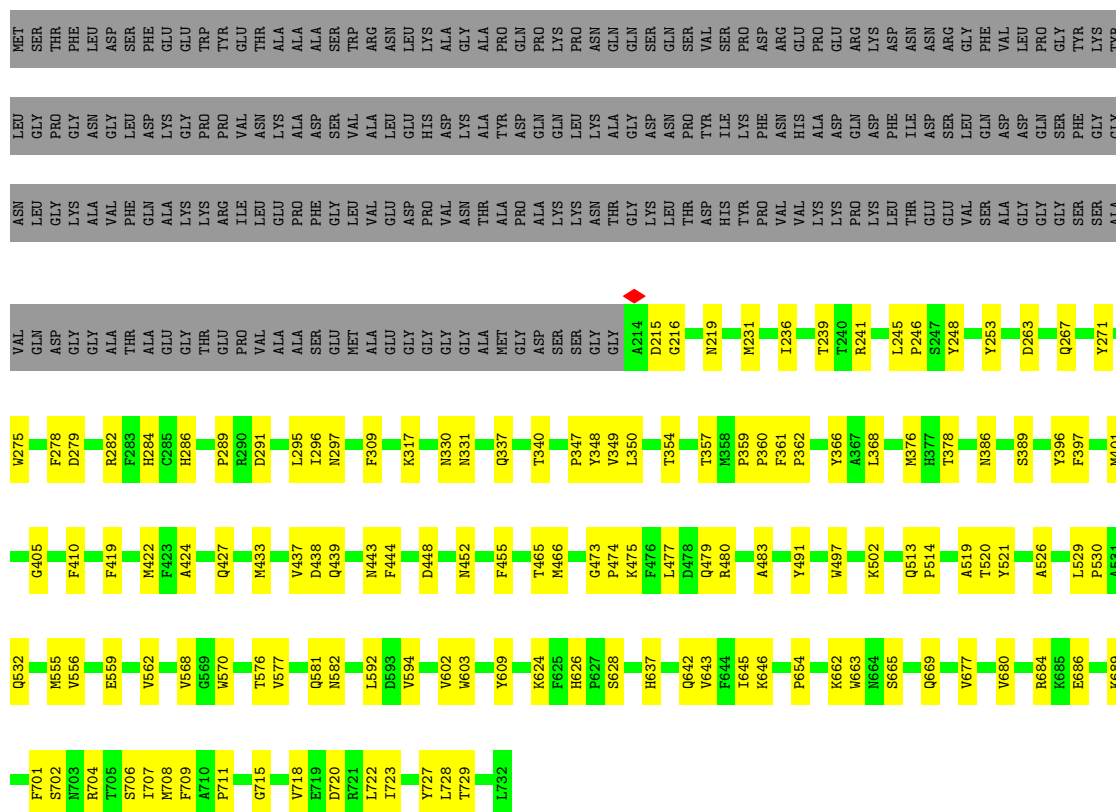
- Molecule 1: VP1





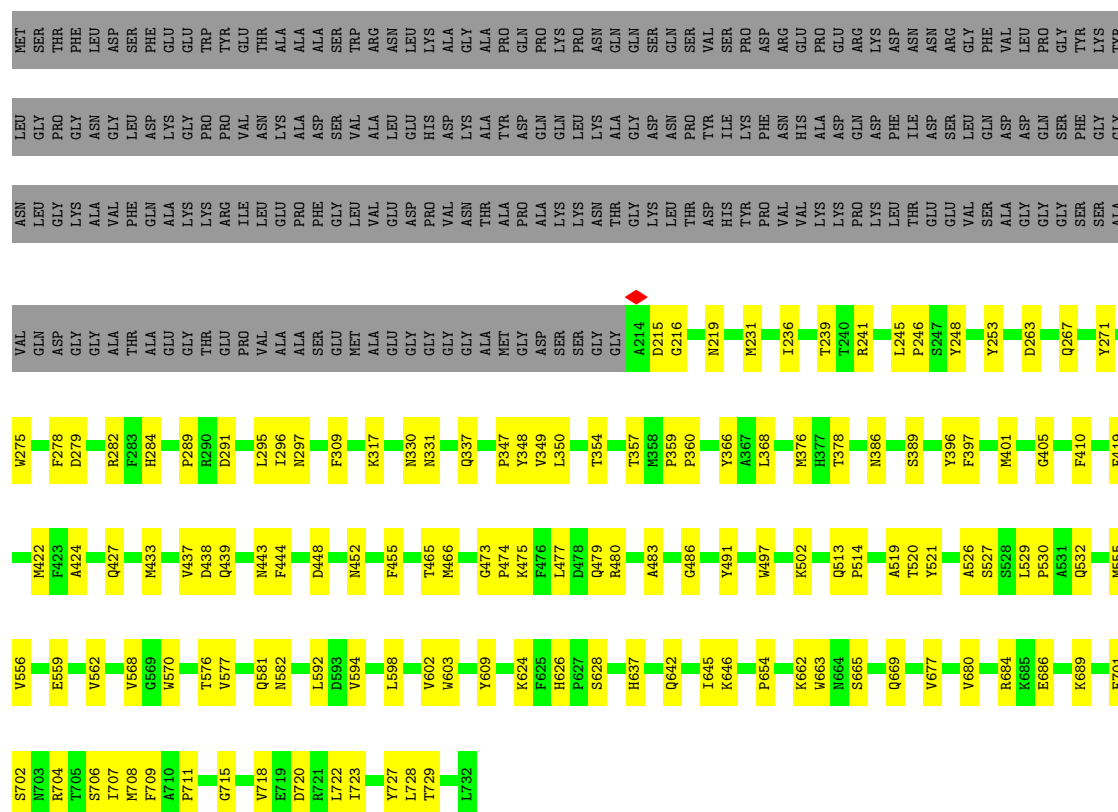
• Molecule 1: VP1

Chain 7: 52% 18% 29%



• Molecule 1: VP1

Response	Percentage
Yes, the U.S. is a democracy	53%
No, the U.S. is not a democracy	18%
Don't know	29%



4 Experimental information

Property	Value	Source
EM reconstruction method	SINGLE PARTICLE	Depositor
Imposed symmetry	POINT, Not provided	
Number of particles used	15471	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 ($e^-/\text{\AA}^2$)	50	Depositor
Minimum defocus (nm)	400	Depositor
Maximum defocus (nm)	4700	Depositor
Magnification	Not provided	
Image detector	FEI FALCON IV (4k x 4k)	Depositor
Maximum map value	16.594	Depositor
Minimum map value	-8.236	Depositor
Average map value	-0.000	Depositor
Map value standard deviation	1.000	Depositor
Recommended contour level	2	Depositor
Map size (Å)	411.0, 411.0, 411.0	wwPDB
Map dimensions	500, 500, 500	wwPDB
Map angles (°)	90.0, 90.0, 90.0	wwPDB
Pixel spacing (Å)	0.822, 0.822, 0.822	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	0.45	0/4294	0.58	0/5859
1	2	0.45	0/4294	0.58	1/5859 (0.0%)
1	3	0.45	0/4294	0.58	1/5859 (0.0%)
1	4	0.45	0/4294	0.58	1/5859 (0.0%)
1	5	0.45	0/4294	0.58	0/5859
1	6	0.45	0/4294	0.58	0/5859
1	7	0.45	0/4294	0.58	0/5859
1	8	0.45	0/4294	0.58	0/5859
1	A	0.45	0/4294	0.58	1/5859 (0.0%)
1	B	0.45	0/4294	0.58	0/5859
1	C	0.45	0/4294	0.58	0/5859
1	D	0.45	0/4294	0.58	0/5859
1	E	0.45	0/4294	0.58	0/5859
1	F	0.45	0/4294	0.58	1/5859 (0.0%)
1	G	0.45	0/4294	0.58	1/5859 (0.0%)
1	H	0.45	0/4294	0.58	0/5859
1	I	0.45	0/4294	0.58	0/5859
1	J	0.45	0/4294	0.58	1/5859 (0.0%)
1	K	0.45	0/4294	0.58	0/5859
1	L	0.45	0/4294	0.58	1/5859 (0.0%)
1	M	0.45	0/4294	0.58	1/5859 (0.0%)
1	N	0.45	0/4294	0.58	1/5859 (0.0%)
1	O	0.45	0/4294	0.58	0/5859
1	P	0.45	0/4294	0.58	1/5859 (0.0%)
1	Q	0.45	0/4294	0.58	1/5859 (0.0%)
1	R	0.45	0/4294	0.58	1/5859 (0.0%)
1	S	0.45	0/4294	0.58	1/5859 (0.0%)
1	T	0.45	0/4294	0.58	1/5859 (0.0%)
1	U	0.45	0/4294	0.58	1/5859 (0.0%)
1	V	0.45	0/4294	0.58	0/5859
1	W	0.45	0/4294	0.58	1/5859 (0.0%)
1	X	0.45	0/4294	0.58	1/5859 (0.0%)
1	Y	0.45	0/4294	0.58	1/5859 (0.0%)
1	Z	0.45	0/4294	0.58	1/5859 (0.0%)

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	# Z >5	RMSZ	# Z >5
1	a	0.45	0/4294	0.58	1/5859 (0.0%)
1	b	0.45	0/4294	0.58	0/5859
1	c	0.45	0/4294	0.58	1/5859 (0.0%)
1	d	0.45	0/4294	0.58	0/5859
1	e	0.45	0/4294	0.58	1/5859 (0.0%)
1	f	0.45	0/4294	0.58	0/5859
1	g	0.45	0/4294	0.58	0/5859
1	h	0.45	0/4294	0.58	0/5859
1	i	0.45	0/4294	0.58	1/5859 (0.0%)
1	j	0.45	0/4294	0.58	1/5859 (0.0%)
1	k	0.45	0/4294	0.58	1/5859 (0.0%)
1	l	0.45	0/4294	0.58	1/5859 (0.0%)
1	m	0.45	0/4294	0.58	1/5859 (0.0%)
1	n	0.45	0/4294	0.58	1/5859 (0.0%)
1	o	0.45	0/4294	0.58	1/5859 (0.0%)
1	p	0.45	0/4294	0.58	1/5859 (0.0%)
1	q	0.45	0/4294	0.58	0/5859
1	r	0.45	0/4294	0.58	0/5859
1	s	0.45	0/4294	0.58	1/5859 (0.0%)
1	t	0.45	0/4294	0.58	0/5859
1	u	0.45	0/4294	0.58	1/5859 (0.0%)
1	v	0.45	0/4294	0.58	0/5859
1	w	0.45	0/4294	0.58	1/5859 (0.0%)
1	x	0.45	0/4294	0.58	0/5859
1	y	0.45	0/4294	0.58	1/5859 (0.0%)
1	z	0.45	0/4294	0.58	0/5859
All	All	0.45	0/257640	0.58	35/351540 (0.0%)

There are no bond length outliers.

All (35) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	U	506	LYS	CB-CA-C	-5.07	110.71	116.54
1	s	506	LYS	CB-CA-C	-5.07	110.71	116.54
1	X	506	LYS	CB-CA-C	-5.06	110.72	116.54
1	w	506	LYS	CB-CA-C	-5.05	110.73	116.54
1	Y	506	LYS	CB-CA-C	-5.05	110.74	116.54
1	i	506	LYS	CB-CA-C	-5.05	110.74	116.54
1	Q	506	LYS	CB-CA-C	-5.04	110.74	116.54
1	p	506	LYS	CB-CA-C	-5.04	110.74	116.54
1	R	506	LYS	CB-CA-C	-5.04	110.75	116.54
1	k	506	LYS	CB-CA-C	-5.04	110.75	116.54

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	J	506	LYS	CB-CA-C	-5.04	110.75	116.54
1	a	506	LYS	CB-CA-C	-5.04	110.75	116.54
1	c	506	LYS	CB-CA-C	-5.04	110.75	116.54
1	e	506	LYS	CB-CA-C	-5.04	110.75	116.54
1	y	506	LYS	CB-CA-C	-5.04	110.75	116.54
1	o	506	LYS	CB-CA-C	-5.03	110.75	116.54
1	G	506	LYS	CB-CA-C	-5.03	110.76	116.54
1	M	506	LYS	CB-CA-C	-5.02	110.76	116.54
1	S	506	LYS	CB-CA-C	-5.02	110.76	116.54
1	Z	506	LYS	CB-CA-C	-5.02	110.77	116.54
1	N	506	LYS	CB-CA-C	-5.02	110.77	116.54
1	j	506	LYS	CB-CA-C	-5.02	110.77	116.54
1	l	506	LYS	CB-CA-C	-5.02	110.77	116.54
1	u	506	LYS	CB-CA-C	-5.01	110.77	116.54
1	T	506	LYS	CB-CA-C	-5.01	110.78	116.54
1	m	506	LYS	CB-CA-C	-5.01	110.78	116.54
1	4	506	LYS	CB-CA-C	-5.01	110.78	116.54
1	A	506	LYS	CB-CA-C	-5.01	110.78	116.54
1	F	506	LYS	CB-CA-C	-5.01	110.78	116.54
1	2	506	LYS	CB-CA-C	-5.01	110.78	116.54
1	P	506	LYS	CB-CA-C	-5.01	110.78	116.54
1	n	506	LYS	CB-CA-C	-5.01	110.78	116.54
1	3	506	LYS	CB-CA-C	-5.01	110.78	116.54
1	W	506	LYS	CB-CA-C	-5.00	110.79	116.54
1	L	506	LYS	CB-CA-C	-5.00	110.79	116.54

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	4165	0	3933	108	0
1	2	4165	0	3933	106	0
1	3	4165	0	3933	106	0
1	4	4165	0	3933	106	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	5	4165	0	3933	108	0
1	6	4165	0	3933	107	0
1	7	4165	0	3933	108	0
1	8	4165	0	3933	109	0
1	A	4165	0	3933	115	0
1	B	4165	0	3933	106	0
1	C	4165	0	3933	111	0
1	D	4165	0	3933	107	0
1	E	4165	0	3933	112	0
1	F	4165	0	3933	110	0
1	G	4165	0	3933	109	0
1	H	4165	0	3933	109	0
1	I	4165	0	3933	107	0
1	J	4165	0	3933	107	0
1	K	4165	0	3933	108	0
1	L	4165	0	3933	105	0
1	M	4165	0	3933	110	0
1	N	4165	0	3933	108	0
1	O	4165	0	3933	109	0
1	P	4165	0	3933	108	0
1	Q	4165	0	3933	109	0
1	R	4165	0	3933	107	0
1	S	4165	0	3933	109	0
1	T	4165	0	3933	108	0
1	U	4165	0	3933	108	0
1	V	4165	0	3933	109	0
1	W	4165	0	3933	108	0
1	X	4165	0	3933	110	0
1	Y	4165	0	3933	108	0
1	Z	4165	0	3933	108	0
1	a	4165	0	3933	105	0
1	b	4165	0	3933	113	0
1	c	4165	0	3933	111	0
1	d	4165	0	3933	107	0
1	e	4165	0	3933	111	0
1	f	4165	0	3933	114	0
1	g	4165	0	3933	109	0
1	h	4165	0	3933	110	0
1	i	4165	0	3933	110	0
1	j	4165	0	3933	108	0
1	k	4165	0	3933	107	0
1	l	4165	0	3933	109	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	m	4165	0	3933	110	0
1	n	4165	0	3933	107	0
1	o	4165	0	3933	111	0
1	p	4165	0	3933	109	0
1	q	4165	0	3933	106	0
1	r	4165	0	3933	109	0
1	s	4165	0	3933	107	0
1	t	4165	0	3933	109	0
1	u	4165	0	3933	109	0
1	v	4165	0	3933	111	0
1	w	4165	0	3933	109	0
1	x	4165	0	3933	108	0
1	y	4165	0	3933	108	0
1	z	4165	0	3933	105	0
All	All	249900	0	235980	5619	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 12.

All (5619) 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:H:284:HIS:HD2	1:H:360:PRO:HB3	1.45	0.82
1:b:284:HIS:HD2	1:b:360:PRO:HB3	1.45	0.82
1:f:284:HIS:HD2	1:f:360:PRO:HB3	1.45	0.82
1:p:284:HIS:HD2	1:p:360:PRO:HB3	1.45	0.82
1:V:284:HIS:HD2	1:V:360:PRO:HB3	1.45	0.82
1:5:284:HIS:HD2	1:5:360:PRO:HB3	1.45	0.82
1:N:284:HIS:HD2	1:N:360:PRO:HB3	1.45	0.82
1:T:284:HIS:HD2	1:T:360:PRO:HB3	1.45	0.82
1:i:284:HIS:HD2	1:i:360:PRO:HB3	1.45	0.82
1:M:284:HIS:HD2	1:M:360:PRO:HB3	1.45	0.82
1:h:284:HIS:HD2	1:h:360:PRO:HB3	1.45	0.82
1:7:284:HIS:HD2	1:7:360:PRO:HB3	1.45	0.82
1:Y:284:HIS:HD2	1:Y:360:PRO:HB3	1.45	0.82
1:a:284:HIS:HD2	1:a:360:PRO:HB3	1.45	0.82
1:m:284:HIS:HD2	1:m:360:PRO:HB3	1.45	0.82
1:1:284:HIS:HD2	1:1:360:PRO:HB3	1.45	0.82
1:3:284:HIS:HD2	1:3:360:PRO:HB3	1.45	0.82
1:A:284:HIS:HD2	1:A:360:PRO:HB3	1.45	0.81
1:D:284:HIS:HD2	1:D:360:PRO:HB3	1.45	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:284:HIS:HD2	1:E:360:PRO:HB3	1.45	0.81
1:Q:284:HIS:HD2	1:Q:360:PRO:HB3	1.45	0.81
1:c:284:HIS:HD2	1:c:360:PRO:HB3	1.45	0.81
1:t:284:HIS:HD2	1:t:360:PRO:HB3	1.45	0.81
1:v:284:HIS:HD2	1:v:360:PRO:HB3	1.45	0.81
1:w:284:HIS:HD2	1:w:360:PRO:HB3	1.45	0.81
1:B:284:HIS:HD2	1:B:360:PRO:HB3	1.45	0.81
1:e:284:HIS:HD2	1:e:360:PRO:HB3	1.45	0.81
1:I:284:HIS:HD2	1:I:360:PRO:HB3	1.45	0.81
1:P:284:HIS:HD2	1:P:360:PRO:HB3	1.45	0.81
1:d:284:HIS:HD2	1:d:360:PRO:HB3	1.45	0.81
1:j:284:HIS:HD2	1:j:360:PRO:HB3	1.45	0.81
1:k:284:HIS:HD2	1:k:360:PRO:HB3	1.45	0.81
1:n:284:HIS:HD2	1:n:360:PRO:HB3	1.45	0.81
1:u:284:HIS:HD2	1:u:360:PRO:HB3	1.45	0.81
1:z:284:HIS:HD2	1:z:360:PRO:HB3	1.45	0.81
1:4:284:HIS:HD2	1:4:360:PRO:HB3	1.45	0.81
1:6:284:HIS:HD2	1:6:360:PRO:HB3	1.45	0.81
1:G:284:HIS:HD2	1:G:360:PRO:HB3	1.45	0.81
1:K:284:HIS:HD2	1:K:360:PRO:HB3	1.45	0.81
1:L:284:HIS:HD2	1:L:360:PRO:HB3	1.45	0.81
1:W:284:HIS:HD2	1:W:360:PRO:HB3	1.45	0.81
1:x:284:HIS:HD2	1:x:360:PRO:HB3	1.45	0.81
1:X:284:HIS:HD2	1:X:360:PRO:HB3	1.45	0.81
1:o:284:HIS:HD2	1:o:360:PRO:HB3	1.45	0.81
1:r:284:HIS:HD2	1:r:360:PRO:HB3	1.45	0.81
1:q:284:HIS:HD2	1:q:360:PRO:HB3	1.45	0.80
1:J:284:HIS:HD2	1:J:360:PRO:HB3	1.45	0.80
1:C:284:HIS:HD2	1:C:360:PRO:HB3	1.45	0.80
1:R:284:HIS:HD2	1:R:360:PRO:HB3	1.45	0.80
1:S:284:HIS:HD2	1:S:360:PRO:HB3	1.45	0.80
1:s:284:HIS:HD2	1:s:360:PRO:HB3	1.45	0.80
1:U:284:HIS:HD2	1:U:360:PRO:HB3	1.45	0.80
1:l:284:HIS:HD2	1:l:360:PRO:HB3	1.45	0.80
1:2:284:HIS:HD2	1:2:360:PRO:HB3	1.45	0.80
1:F:284:HIS:HD2	1:F:360:PRO:HB3	1.45	0.80
1:g:284:HIS:HD2	1:g:360:PRO:HB3	1.45	0.80
1:y:284:HIS:HD2	1:y:360:PRO:HB3	1.45	0.80
1:O:284:HIS:HD2	1:O:360:PRO:HB3	1.45	0.80
1:Z:284:HIS:HD2	1:Z:360:PRO:HB3	1.45	0.80
1:8:284:HIS:HD2	1:8:360:PRO:HB3	1.45	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:718:VAL:CG1	1:G:720:ASP:OD2	2.31	0.79
1:i:718:VAL:CG1	1:i:720:ASP:OD2	2.31	0.79
1:t:718:VAL:CG1	1:t:720:ASP:OD2	2.31	0.79
1:C:718:VAL:CG1	1:C:720:ASP:OD2	2.31	0.79
1:X:718:VAL:CG1	1:X:720:ASP:OD2	2.31	0.79
1:a:718:VAL:CG1	1:a:720:ASP:OD2	2.31	0.79
1:o:718:VAL:CG1	1:o:720:ASP:OD2	2.31	0.79
1:3:718:VAL:CG1	1:3:720:ASP:OD2	2.31	0.79
1:B:718:VAL:CG1	1:B:720:ASP:OD2	2.31	0.79
1:N:718:VAL:CG1	1:N:720:ASP:OD2	2.31	0.79
1:O:718:VAL:CG1	1:O:720:ASP:OD2	2.31	0.79
1:S:718:VAL:CG1	1:S:720:ASP:OD2	2.31	0.79
1:r:718:VAL:CG1	1:r:720:ASP:OD2	2.31	0.79
1:1:718:VAL:CG1	1:1:720:ASP:OD2	2.31	0.79
1:L:718:VAL:CG1	1:L:720:ASP:OD2	2.31	0.79
1:Q:718:VAL:CG1	1:Q:720:ASP:OD2	2.31	0.79
1:T:718:VAL:CG1	1:T:720:ASP:OD2	2.31	0.79
1:d:718:VAL:CG1	1:d:720:ASP:OD2	2.31	0.79
1:g:718:VAL:CG1	1:g:720:ASP:OD2	2.31	0.79
1:l:718:VAL:CG1	1:l:720:ASP:OD2	2.31	0.79
1:n:718:VAL:CG1	1:n:720:ASP:OD2	2.31	0.79
1:z:718:VAL:CG1	1:z:720:ASP:OD2	2.31	0.79
1:2:718:VAL:CG1	1:2:720:ASP:OD2	2.31	0.79
1:J:718:VAL:CG1	1:J:720:ASP:OD2	2.31	0.79
1:P:718:VAL:CG1	1:P:720:ASP:OD2	2.31	0.79
1:m:718:VAL:CG1	1:m:720:ASP:OD2	2.31	0.79
1:x:718:VAL:CG1	1:x:720:ASP:OD2	2.31	0.79
1:5:718:VAL:CG1	1:5:720:ASP:OD2	2.31	0.79
1:H:718:VAL:CG1	1:H:720:ASP:OD2	2.31	0.79
1:Z:718:VAL:CG1	1:Z:720:ASP:OD2	2.31	0.79
1:e:718:VAL:CG1	1:e:720:ASP:OD2	2.31	0.79
1:j:718:VAL:CG1	1:j:720:ASP:OD2	2.31	0.79
1:8:718:VAL:CG1	1:8:720:ASP:OD2	2.31	0.79
1:A:718:VAL:CG1	1:A:720:ASP:OD2	2.31	0.79
1:V:718:VAL:CG1	1:V:720:ASP:OD2	2.31	0.79
1:c:718:VAL:CG1	1:c:720:ASP:OD2	2.31	0.79
1:p:718:VAL:CG1	1:p:720:ASP:OD2	2.31	0.79
1:u:718:VAL:CG1	1:u:720:ASP:OD2	2.31	0.79
1:I:718:VAL:CG1	1:I:720:ASP:OD2	2.31	0.79
1:b:718:VAL:CG1	1:b:720:ASP:OD2	2.31	0.79
1:f:718:VAL:CG1	1:f:720:ASP:OD2	2.31	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:718:VAL:CG1	1:F:720:ASP:OD2	2.31	0.78
1:R:718:VAL:CG1	1:R:720:ASP:OD2	2.31	0.78
1:Y:718:VAL:CG1	1:Y:720:ASP:OD2	2.31	0.78
1:h:718:VAL:CG1	1:h:720:ASP:OD2	2.31	0.78
1:q:718:VAL:CG1	1:q:720:ASP:OD2	2.31	0.78
1:v:718:VAL:CG1	1:v:720:ASP:OD2	2.31	0.78
1:D:718:VAL:CG1	1:D:720:ASP:OD2	2.31	0.78
1:M:718:VAL:CG1	1:M:720:ASP:OD2	2.31	0.78
1:k:718:VAL:CG1	1:k:720:ASP:OD2	2.31	0.78
1:y:718:VAL:CG1	1:y:720:ASP:OD2	2.31	0.78
1:7:718:VAL:CG1	1:7:720:ASP:OD2	2.31	0.78
1:K:718:VAL:CG1	1:K:720:ASP:OD2	2.31	0.78
1:W:718:VAL:CG1	1:W:720:ASP:OD2	2.31	0.78
1:s:718:VAL:CG1	1:s:720:ASP:OD2	2.31	0.78
1:6:718:VAL:CG1	1:6:720:ASP:OD2	2.31	0.78
1:4:718:VAL:CG1	1:4:720:ASP:OD2	2.31	0.78
1:E:718:VAL:CG1	1:E:720:ASP:OD2	2.31	0.78
1:U:718:VAL:CG1	1:U:720:ASP:OD2	2.31	0.78
1:w:718:VAL:CG1	1:w:720:ASP:OD2	2.31	0.78
1:B:497:TRP:O	1:B:502:LYS:NZ	2.17	0.77
1:1:497:TRP:O	1:1:502:LYS:NZ	2.17	0.76
1:F:475:LYS:NZ	1:F:568:VAL:O	2.19	0.76
1:G:475:LYS:NZ	1:G:568:VAL:O	2.19	0.76
1:X:475:LYS:NZ	1:X:568:VAL:O	2.19	0.76
1:t:475:LYS:NZ	1:t:568:VAL:O	2.19	0.76
1:y:475:LYS:NZ	1:y:568:VAL:O	2.19	0.76
1:o:475:LYS:NZ	1:o:568:VAL:O	2.19	0.76
1:M:475:LYS:NZ	1:M:568:VAL:O	2.19	0.76
1:U:475:LYS:NZ	1:U:568:VAL:O	2.19	0.76
1:s:475:LYS:NZ	1:s:568:VAL:O	2.19	0.76
1:h:475:LYS:NZ	1:h:568:VAL:O	2.19	0.76
1:C:475:LYS:NZ	1:C:568:VAL:O	2.19	0.76
1:A:475:LYS:NZ	1:A:568:VAL:O	2.19	0.76
1:a:475:LYS:NZ	1:a:568:VAL:O	2.19	0.76
1:c:475:LYS:NZ	1:c:568:VAL:O	2.19	0.76
1:e:475:LYS:NZ	1:e:568:VAL:O	2.19	0.76
1:J:475:LYS:NZ	1:J:568:VAL:O	2.19	0.75
1:T:475:LYS:NZ	1:T:568:VAL:O	2.19	0.75
1:g:475:LYS:NZ	1:g:568:VAL:O	2.19	0.75
1:2:475:LYS:NZ	1:2:568:VAL:O	2.19	0.75
1:3:475:LYS:NZ	1:3:568:VAL:O	2.19	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:8:475:LYS:NZ	1:8:568:VAL:O	2.19	0.75
1:H:475:LYS:NZ	1:H:568:VAL:O	2.19	0.75
1:S:475:LYS:NZ	1:S:568:VAL:O	2.19	0.75
1:Z:475:LYS:NZ	1:Z:568:VAL:O	2.19	0.75
1:i:475:LYS:NZ	1:i:568:VAL:O	2.19	0.75
1:m:475:LYS:NZ	1:m:568:VAL:O	2.19	0.75
1:r:475:LYS:NZ	1:r:568:VAL:O	2.19	0.75
1:v:475:LYS:NZ	1:v:568:VAL:O	2.19	0.75
1:N:475:LYS:NZ	1:N:568:VAL:O	2.19	0.75
1:O:475:LYS:NZ	1:O:568:VAL:O	2.19	0.75
1:P:475:LYS:NZ	1:P:568:VAL:O	2.19	0.75
1:l:475:LYS:NZ	1:l:568:VAL:O	2.19	0.75
1:6:475:LYS:NZ	1:6:568:VAL:O	2.19	0.75
1:1:475:LYS:NZ	1:1:568:VAL:O	2.19	0.75
1:5:475:LYS:NZ	1:5:568:VAL:O	2.19	0.75
1:7:475:LYS:NZ	1:7:568:VAL:O	2.19	0.75
1:V:475:LYS:NZ	1:V:568:VAL:O	2.19	0.75
1:W:475:LYS:NZ	1:W:568:VAL:O	2.19	0.75
1:Y:475:LYS:NZ	1:Y:568:VAL:O	2.19	0.75
1:j:475:LYS:NZ	1:j:568:VAL:O	2.19	0.75
1:p:475:LYS:NZ	1:p:568:VAL:O	2.19	0.75
1:B:475:LYS:NZ	1:B:568:VAL:O	2.19	0.75
1:D:475:LYS:NZ	1:D:568:VAL:O	2.19	0.75
1:Q:475:LYS:NZ	1:Q:568:VAL:O	2.19	0.75
1:q:475:LYS:NZ	1:q:568:VAL:O	2.19	0.75
1:R:475:LYS:NZ	1:R:568:VAL:O	2.19	0.75
1:k:475:LYS:NZ	1:k:568:VAL:O	2.19	0.75
1:n:475:LYS:NZ	1:n:568:VAL:O	2.19	0.75
1:x:475:LYS:NZ	1:x:568:VAL:O	2.19	0.75
1:I:475:LYS:NZ	1:I:568:VAL:O	2.19	0.75
1:K:475:LYS:NZ	1:K:568:VAL:O	2.19	0.75
1:b:475:LYS:NZ	1:b:568:VAL:O	2.19	0.75
1:L:475:LYS:NZ	1:L:568:VAL:O	2.19	0.75
1:d:475:LYS:NZ	1:d:568:VAL:O	2.19	0.75
1:f:475:LYS:NZ	1:f:568:VAL:O	2.19	0.75
1:u:475:LYS:NZ	1:u:568:VAL:O	2.19	0.75
1:4:475:LYS:NZ	1:4:568:VAL:O	2.19	0.75
1:z:475:LYS:NZ	1:z:568:VAL:O	2.19	0.74
1:X:497:TRP:O	1:X:502:LYS:NZ	2.17	0.74
1:o:497:TRP:O	1:o:502:LYS:NZ	2.17	0.74
1:T:497:TRP:O	1:T:502:LYS:NZ	2.17	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:m:497:TRP:O	1:m:502:LYS:NZ	2.17	0.73
1:E:475:LYS:NZ	1:E:568:VAL:O	2.19	0.73
1:w:475:LYS:NZ	1:w:568:VAL:O	2.19	0.73
1:F:497:TRP:O	1:F:502:LYS:NZ	2.17	0.73
1:t:284:HIS:CD2	1:t:360:PRO:HB3	2.24	0.73
1:B:284:HIS:CD2	1:B:360:PRO:HB3	2.24	0.73
1:X:284:HIS:CD2	1:X:360:PRO:HB3	2.24	0.73
1:a:295:LEU:HG	1:a:422:MET:HE1	1.71	0.73
1:w:497:TRP:O	1:w:502:LYS:NZ	2.17	0.73
1:y:497:TRP:O	1:y:502:LYS:NZ	2.17	0.73
1:1:284:HIS:CD2	1:1:360:PRO:HB3	2.24	0.73
1:D:295:LEU:HG	1:D:422:MET:HE1	1.71	0.72
1:K:284:HIS:CD2	1:K:360:PRO:HB3	2.24	0.72
1:R:497:TRP:O	1:R:502:LYS:NZ	2.17	0.72
1:Y:284:HIS:CD2	1:Y:360:PRO:HB3	2.24	0.72
1:o:284:HIS:CD2	1:o:360:PRO:HB3	2.24	0.72
1:z:284:HIS:CD2	1:z:360:PRO:HB3	2.24	0.72
1:4:284:HIS:CD2	1:4:360:PRO:HB3	2.24	0.72
1:G:284:HIS:CD2	1:G:360:PRO:HB3	2.25	0.72
1:H:284:HIS:CD2	1:H:360:PRO:HB3	2.24	0.72
1:L:284:HIS:CD2	1:L:360:PRO:HB3	2.25	0.72
1:k:295:LEU:HG	1:k:422:MET:HE1	1.71	0.72
1:y:284:HIS:CD2	1:y:360:PRO:HB3	2.24	0.72
1:3:295:LEU:HG	1:3:422:MET:HE1	1.72	0.72
1:5:284:HIS:CD2	1:5:360:PRO:HB3	2.24	0.72
1:7:284:HIS:CD2	1:7:360:PRO:HB3	2.25	0.72
1:F:284:HIS:CD2	1:F:360:PRO:HB3	2.24	0.72
1:J:497:TRP:O	1:J:502:LYS:NZ	2.17	0.72
1:R:295:LEU:HG	1:R:422:MET:HE1	1.71	0.72
1:T:295:LEU:HG	1:T:422:MET:HE1	1.71	0.72
1:W:295:LEU:HG	1:W:422:MET:HE1	1.71	0.72
1:Z:295:LEU:HG	1:Z:422:MET:HE1	1.71	0.72
1:r:284:HIS:CD2	1:r:360:PRO:HB3	2.24	0.72
1:6:295:LEU:HG	1:6:422:MET:HE1	1.71	0.72
1:8:295:LEU:HG	1:8:422:MET:HE1	1.72	0.72
1:E:295:LEU:HG	1:E:422:MET:HE1	1.71	0.72
1:Y:295:LEU:HG	1:Y:422:MET:HE1	1.71	0.72
1:d:284:HIS:CD2	1:d:360:PRO:HB3	2.24	0.72
1:m:295:LEU:HG	1:m:422:MET:HE1	1.71	0.72
1:q:295:LEU:HG	1:q:422:MET:HE1	1.71	0.72
1:2:295:LEU:HG	1:2:422:MET:HE1	1.71	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:7:295:LEU:HG	1:7:422:MET:HE1	1.71	0.72
1:C:295:LEU:HG	1:C:422:MET:HE1	1.71	0.72
1:S:284:HIS:CD2	1:S:360:PRO:HB3	2.25	0.72
1:b:284:HIS:CD2	1:b:360:PRO:HB3	2.24	0.72
1:g:295:LEU:HG	1:g:422:MET:HE1	1.71	0.72
1:w:295:LEU:HG	1:w:422:MET:HE1	1.71	0.72
1:2:497:TRP:O	1:2:502:LYS:NZ	2.17	0.72
1:J:295:LEU:HG	1:J:422:MET:HE1	1.71	0.72
1:T:284:HIS:CD2	1:T:360:PRO:HB3	2.24	0.72
1:f:284:HIS:CD2	1:f:360:PRO:HB3	2.24	0.72
1:g:349:VAL:H	1:g:642:GLN:HE22	1.38	0.72
1:p:284:HIS:CD2	1:p:360:PRO:HB3	2.24	0.72
1:C:349:VAL:H	1:C:642:GLN:HE22	1.38	0.72
1:I:295:LEU:HG	1:I:422:MET:HE1	1.71	0.72
1:V:284:HIS:CD2	1:V:360:PRO:HB3	2.24	0.72
1:X:295:LEU:HG	1:X:422:MET:HE1	1.71	0.72
1:n:284:HIS:CD2	1:n:360:PRO:HB3	2.24	0.72
1:u:284:HIS:CD2	1:u:360:PRO:HB3	2.24	0.72
1:7:349:VAL:H	1:7:642:GLN:HE22	1.38	0.72
1:I:284:HIS:CD2	1:I:360:PRO:HB3	2.24	0.72
1:N:284:HIS:CD2	1:N:360:PRO:HB3	2.24	0.72
1:P:349:VAL:H	1:P:642:GLN:HE22	1.38	0.72
1:U:284:HIS:CD2	1:U:360:PRO:HB3	2.24	0.72
1:b:497:TRP:O	1:b:502:LYS:NZ	2.17	0.72
1:j:349:VAL:H	1:j:642:GLN:HE22	1.38	0.72
1:o:295:LEU:HG	1:o:422:MET:HE1	1.71	0.72
1:l:295:LEU:HG	1:l:422:MET:HE1	1.71	0.72
1:A:284:HIS:CD2	1:A:360:PRO:HB3	2.24	0.72
1:G:295:LEU:HG	1:G:422:MET:HE1	1.71	0.72
1:N:349:VAL:H	1:N:642:GLN:HE22	1.38	0.72
1:S:497:TRP:O	1:S:502:LYS:NZ	2.17	0.72
1:c:284:HIS:CD2	1:c:360:PRO:HB3	2.24	0.72
1:c:349:VAL:H	1:c:642:GLN:HE22	1.38	0.72
1:i:349:VAL:H	1:i:642:GLN:HE22	1.38	0.72
1:s:295:LEU:HG	1:s:422:MET:HE1	1.71	0.72
1:u:295:LEU:HG	1:u:422:MET:HE1	1.72	0.72
1:B:295:LEU:HG	1:B:422:MET:HE1	1.71	0.72
1:F:295:LEU:HG	1:F:422:MET:HE1	1.71	0.72
1:Y:349:VAL:H	1:Y:642:GLN:HE22	1.38	0.72
1:e:284:HIS:CD2	1:e:360:PRO:HB3	2.24	0.72
1:e:349:VAL:H	1:e:642:GLN:HE22	1.38	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:f:349:VAL:H	1:f:642:GLN:HE22	1.38	0.72
1:i:284:HIS:CD2	1:i:360:PRO:HB3	2.24	0.72
1:k:284:HIS:CD2	1:k:360:PRO:HB3	2.24	0.72
1:m:284:HIS:CD2	1:m:360:PRO:HB3	2.25	0.72
1:v:284:HIS:CD2	1:v:360:PRO:HB3	2.24	0.72
1:O:284:HIS:CD2	1:O:360:PRO:HB3	2.24	0.71
1:U:295:LEU:HG	1:U:422:MET:HE1	1.71	0.71
1:f:497:TRP:O	1:f:502:LYS:NZ	2.17	0.71
1:s:284:HIS:CD2	1:s:360:PRO:HB3	2.24	0.71
1:t:295:LEU:HG	1:t:422:MET:HE1	1.71	0.71
1:3:284:HIS:CD2	1:3:360:PRO:HB3	2.24	0.71
1:D:284:HIS:CD2	1:D:360:PRO:HB3	2.25	0.71
1:J:284:HIS:CD2	1:J:360:PRO:HB3	2.24	0.71
1:Q:295:LEU:HG	1:Q:422:MET:HE1	1.71	0.71
1:a:284:HIS:CD2	1:a:360:PRO:HB3	2.24	0.71
1:b:349:VAL:H	1:b:642:GLN:HE22	1.38	0.71
1:l:284:HIS:CD2	1:l:360:PRO:HB3	2.24	0.71
1:u:349:VAL:H	1:u:642:GLN:HE22	1.38	0.71
1:w:349:VAL:H	1:w:642:GLN:HE22	1.38	0.71
1:y:295:LEU:HG	1:y:422:MET:HE1	1.72	0.71
1:E:349:VAL:H	1:E:642:GLN:HE22	1.38	0.71
1:G:497:TRP:O	1:G:502:LYS:NZ	2.17	0.71
1:r:497:TRP:O	1:r:502:LYS:NZ	2.17	0.71
1:2:284:HIS:CD2	1:2:360:PRO:HB3	2.25	0.71
1:R:349:VAL:H	1:R:642:GLN:HE22	1.38	0.71
1:k:349:VAL:H	1:k:642:GLN:HE22	1.38	0.71
1:x:295:LEU:HG	1:x:422:MET:HE1	1.71	0.71
1:U:239:THR:OG1	1:U:241:ARG:NH1	2.23	0.71
1:s:239:THR:OG1	1:s:241:ARG:NH1	2.23	0.71
1:v:295:LEU:HG	1:v:422:MET:HE1	1.71	0.71
1:A:295:LEU:HG	1:A:422:MET:HE1	1.72	0.71
1:D:349:VAL:H	1:D:642:GLN:HE22	1.38	0.71
1:I:349:VAL:H	1:I:642:GLN:HE22	1.38	0.71
1:Q:497:TRP:O	1:Q:502:LYS:NZ	2.17	0.71
1:q:239:THR:OG1	1:q:241:ARG:NH1	2.23	0.71
1:q:349:VAL:H	1:q:642:GLN:HE22	1.38	0.71
1:t:497:TRP:O	1:t:502:LYS:NZ	2.17	0.71
1:N:295:LEU:HG	1:N:422:MET:HE1	1.71	0.71
1:i:295:LEU:HG	1:i:422:MET:HE1	1.72	0.71
1:n:497:TRP:O	1:n:502:LYS:NZ	2.17	0.71
1:P:284:HIS:CD2	1:P:360:PRO:HB3	2.24	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Q:239:THR:OG1	1:Q:241:ARG:NH1	2.23	0.71
1:R:239:THR:OG1	1:R:241:ARG:NH1	2.23	0.71
1:f:239:THR:OG1	1:f:241:ARG:NH1	2.23	0.71
1:j:295:LEU:HG	1:j:422:MET:HE1	1.71	0.71
1:E:284:HIS:CD2	1:E:360:PRO:HB3	2.24	0.71
1:G:349:VAL:H	1:G:642:GLN:HE22	1.38	0.71
1:M:295:LEU:HG	1:M:422:MET:HE1	1.71	0.71
1:M:349:VAL:H	1:M:642:GLN:HE22	1.38	0.71
1:P:497:TRP:O	1:P:502:LYS:NZ	2.17	0.71
1:h:284:HIS:CD2	1:h:360:PRO:HB3	2.25	0.71
1:h:295:LEU:HG	1:h:422:MET:HE1	1.72	0.71
1:h:349:VAL:H	1:h:642:GLN:HE22	1.38	0.71
1:j:284:HIS:CD2	1:j:360:PRO:HB3	2.24	0.71
1:q:284:HIS:CD2	1:q:360:PRO:HB3	2.24	0.71
1:x:239:THR:OG1	1:x:241:ARG:NH1	2.23	0.71
1:x:497:TRP:O	1:x:502:LYS:NZ	2.17	0.71
1:6:284:HIS:CD2	1:6:360:PRO:HB3	2.24	0.71
1:O:349:VAL:H	1:O:642:GLN:HE22	1.38	0.71
1:P:295:LEU:HG	1:P:422:MET:HE1	1.71	0.71
1:Q:284:HIS:CD2	1:Q:360:PRO:HB3	2.24	0.71
1:T:349:VAL:H	1:T:642:GLN:HE22	1.38	0.71
1:W:284:HIS:CD2	1:W:360:PRO:HB3	2.24	0.71
1:Z:497:TRP:O	1:Z:502:LYS:NZ	2.17	0.71
1:b:239:THR:OG1	1:b:241:ARG:NH1	2.23	0.71
1:n:239:THR:OG1	1:n:241:ARG:NH1	2.23	0.71
1:6:349:VAL:H	1:6:642:GLN:HE22	1.38	0.71
1:M:284:HIS:CD2	1:M:360:PRO:HB3	2.25	0.70
1:O:295:LEU:HG	1:O:422:MET:HE1	1.71	0.70
1:b:295:LEU:HG	1:b:422:MET:HE1	1.71	0.70
1:d:239:THR:OG1	1:d:241:ARG:NH1	2.23	0.70
1:d:295:LEU:HG	1:d:422:MET:HE1	1.71	0.70
1:f:295:LEU:HG	1:f:422:MET:HE1	1.72	0.70
1:i:239:THR:OG1	1:i:241:ARG:NH1	2.23	0.70
1:l:295:LEU:HG	1:l:422:MET:HE1	1.71	0.70
1:l:349:VAL:H	1:l:642:GLN:HE22	1.38	0.70
1:r:295:LEU:HG	1:r:422:MET:HE1	1.72	0.70
1:t:349:VAL:H	1:t:642:GLN:HE22	1.38	0.70
1:w:284:HIS:CD2	1:w:360:PRO:HB3	2.24	0.70
1:x:284:HIS:CD2	1:x:360:PRO:HB3	2.25	0.70
1:4:349:VAL:H	1:4:642:GLN:HE22	1.38	0.70
1:5:295:LEU:HG	1:5:422:MET:HE1	1.71	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:349:VAL:H	1:F:642:GLN:HE22	1.38	0.70
1:I:497:TRP:O	1:I:502:LYS:NZ	2.17	0.70
1:R:284:HIS:CD2	1:R:360:PRO:HB3	2.24	0.70
1:S:295:LEU:HG	1:S:422:MET:HE1	1.71	0.70
1:W:349:VAL:H	1:W:642:GLN:HE22	1.38	0.70
1:Z:284:HIS:CD2	1:Z:360:PRO:HB3	2.25	0.70
1:m:349:VAL:H	1:m:642:GLN:HE22	1.38	0.70
1:n:295:LEU:HG	1:n:422:MET:HE1	1.71	0.70
1:x:349:VAL:H	1:x:642:GLN:HE22	1.38	0.70
1:y:349:VAL:H	1:y:642:GLN:HE22	1.38	0.70
1:4:295:LEU:HG	1:4:422:MET:HE1	1.71	0.70
1:H:295:LEU:HG	1:H:422:MET:HE1	1.71	0.70
1:K:295:LEU:HG	1:K:422:MET:HE1	1.71	0.70
1:Q:349:VAL:H	1:Q:642:GLN:HE22	1.38	0.70
1:p:295:LEU:HG	1:p:422:MET:HE1	1.71	0.70
1:z:349:VAL:H	1:z:642:GLN:HE22	1.38	0.70
1:8:284:HIS:CD2	1:8:360:PRO:HB3	2.24	0.70
1:B:349:VAL:H	1:B:642:GLN:HE22	1.38	0.70
1:K:349:VAL:H	1:K:642:GLN:HE22	1.38	0.70
1:W:239:THR:OG1	1:W:241:ARG:NH1	2.23	0.70
1:e:295:LEU:HG	1:e:422:MET:HE1	1.71	0.70
1:g:284:HIS:CD2	1:g:360:PRO:HB3	2.25	0.70
1:6:239:THR:OG1	1:6:241:ARG:NH1	2.23	0.70
1:C:284:HIS:CD2	1:C:360:PRO:HB3	2.24	0.70
1:L:349:VAL:H	1:L:642:GLN:HE22	1.38	0.70
1:c:295:LEU:HG	1:c:422:MET:HE1	1.71	0.70
1:A:239:THR:OG1	1:A:241:ARG:NH1	2.23	0.70
1:L:295:LEU:HG	1:L:422:MET:HE1	1.71	0.70
1:V:295:LEU:HG	1:V:422:MET:HE1	1.71	0.70
1:Z:239:THR:OG1	1:Z:241:ARG:NH1	2.23	0.70
1:o:349:VAL:H	1:o:642:GLN:HE22	1.38	0.70
1:8:239:THR:OG1	1:8:241:ARG:NH1	2.23	0.70
1:L:239:THR:OG1	1:L:241:ARG:NH1	2.23	0.70
1:X:349:VAL:H	1:X:642:GLN:HE22	1.38	0.70
1:u:497:TRP:O	1:u:502:LYS:NZ	2.17	0.70
1:v:239:THR:OG1	1:v:241:ARG:NH1	2.23	0.70
1:1:349:VAL:H	1:1:642:GLN:HE22	1.38	0.70
1:3:239:THR:OG1	1:3:241:ARG:NH1	2.23	0.70
1:U:349:VAL:H	1:U:642:GLN:HE22	1.38	0.70
1:r:349:VAL:H	1:r:642:GLN:HE22	1.38	0.70
1:z:239:THR:OG1	1:z:241:ARG:NH1	2.23	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:z:295:LEU:HG	1:z:422:MET:HE1	1.71	0.70
1:V:349:VAL:H	1:V:642:GLN:HE22	1.38	0.70
1:Z:349:VAL:H	1:Z:642:GLN:HE22	1.38	0.70
1:a:239:THR:OG1	1:a:241:ARG:NH1	2.23	0.70
1:8:349:VAL:H	1:8:642:GLN:HE22	1.38	0.70
1:T:239:THR:OG1	1:T:241:ARG:NH1	2.23	0.69
1:m:239:THR:OG1	1:m:241:ARG:NH1	2.23	0.69
1:p:349:VAL:H	1:p:642:GLN:HE22	1.38	0.69
1:4:239:THR:OG1	1:4:241:ARG:NH1	2.23	0.69
1:H:349:VAL:H	1:H:642:GLN:HE22	1.38	0.69
1:n:349:VAL:H	1:n:642:GLN:HE22	1.38	0.69
1:5:349:VAL:H	1:5:642:GLN:HE22	1.38	0.69
1:S:349:VAL:H	1:S:642:GLN:HE22	1.38	0.69
1:C:239:THR:OG1	1:C:241:ARG:NH1	2.23	0.69
1:K:239:THR:OG1	1:K:241:ARG:NH1	2.23	0.69
1:d:349:VAL:H	1:d:642:GLN:HE22	1.38	0.69
1:g:239:THR:OG1	1:g:241:ARG:NH1	2.23	0.69
1:j:497:TRP:O	1:j:502:LYS:NZ	2.17	0.69
1:s:349:VAL:H	1:s:642:GLN:HE22	1.38	0.69
1:U:497:TRP:O	1:U:502:LYS:NZ	2.17	0.69
1:F:239:THR:OG1	1:F:241:ARG:NH1	2.23	0.69
1:O:239:THR:OG1	1:O:241:ARG:NH1	2.23	0.69
1:a:497:TRP:O	1:a:502:LYS:NZ	2.17	0.69
1:c:337:GLN:HE21	1:c:401:MET:HE3	1.58	0.69
1:l:239:THR:OG1	1:l:241:ARG:NH1	2.23	0.69
1:3:497:TRP:O	1:3:502:LYS:NZ	2.17	0.69
1:C:337:GLN:HE21	1:C:401:MET:HE3	1.58	0.69
1:V:497:TRP:O	1:V:502:LYS:NZ	2.17	0.69
1:e:337:GLN:HE21	1:e:401:MET:HE3	1.58	0.69
1:g:337:GLN:HE21	1:g:401:MET:HE3	1.58	0.69
1:y:239:THR:OG1	1:y:241:ARG:NH1	2.23	0.69
1:A:337:GLN:HE21	1:A:401:MET:HE3	1.58	0.69
1:A:349:VAL:H	1:A:642:GLN:HE22	1.38	0.69
1:D:337:GLN:HE21	1:D:401:MET:HE3	1.58	0.69
1:F:337:GLN:HE21	1:F:401:MET:HE3	1.58	0.69
1:K:497:TRP:O	1:K:502:LYS:NZ	2.17	0.69
1:k:337:GLN:HE21	1:k:401:MET:HE3	1.58	0.69
1:v:337:GLN:HE21	1:v:401:MET:HE3	1.58	0.69
1:y:337:GLN:HE21	1:y:401:MET:HE3	1.58	0.69
1:2:349:VAL:H	1:2:642:GLN:HE22	1.38	0.69
1:e:497:TRP:O	1:e:502:LYS:NZ	2.17	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:p:497:TRP:O	1:p:502:LYS:NZ	2.17	0.69
1:s:497:TRP:O	1:s:502:LYS:NZ	2.17	0.69
1:8:497:TRP:O	1:8:502:LYS:NZ	2.17	0.69
1:z:497:TRP:O	1:z:502:LYS:NZ	2.17	0.69
1:5:337:GLN:HE21	1:5:401:MET:HE3	1.58	0.69
1:G:239:THR:OG1	1:G:241:ARG:NH1	2.23	0.68
1:J:349:VAL:H	1:J:642:GLN:HE22	1.38	0.68
1:L:497:TRP:O	1:L:502:LYS:NZ	2.17	0.68
1:H:337:GLN:HE21	1:H:401:MET:HE3	1.58	0.68
1:J:239:THR:OG1	1:J:241:ARG:NH1	2.23	0.68
1:M:337:GLN:HE21	1:M:401:MET:HE3	1.58	0.68
1:t:239:THR:OG1	1:t:241:ARG:NH1	2.23	0.68
1:v:349:VAL:H	1:v:642:GLN:HE22	1.38	0.68
1:C:497:TRP:O	1:C:502:LYS:NZ	2.17	0.68
1:L:337:GLN:HE21	1:L:401:MET:HE3	1.58	0.68
1:M:497:TRP:O	1:M:502:LYS:NZ	2.17	0.68
1:c:497:TRP:O	1:c:502:LYS:NZ	2.17	0.68
1:S:337:GLN:HE21	1:S:401:MET:HE3	1.58	0.68
1:z:337:GLN:HE21	1:z:401:MET:HE3	1.58	0.68
1:2:239:THR:OG1	1:2:241:ARG:NH1	2.23	0.68
1:3:349:VAL:H	1:3:642:GLN:HE22	1.38	0.68
1:H:239:THR:OG1	1:H:241:ARG:NH1	2.23	0.68
1:M:239:THR:OG1	1:M:241:ARG:NH1	2.23	0.68
1:a:349:VAL:H	1:a:642:GLN:HE22	1.38	0.68
1:g:497:TRP:O	1:g:502:LYS:NZ	2.17	0.68
1:h:239:THR:OG1	1:h:241:ARG:NH1	2.23	0.68
1:2:337:GLN:HE21	1:2:401:MET:HE3	1.58	0.68
1:A:497:TRP:O	1:A:502:LYS:NZ	2.17	0.68
1:D:497:TRP:O	1:D:502:LYS:NZ	2.17	0.68
1:E:239:THR:OG1	1:E:241:ARG:NH1	2.23	0.68
1:J:337:GLN:HE21	1:J:401:MET:HE3	1.58	0.68
1:T:337:GLN:HE21	1:T:401:MET:HE3	1.58	0.68
1:h:337:GLN:HE21	1:h:401:MET:HE3	1.58	0.68
1:m:337:GLN:HE21	1:m:401:MET:HE3	1.58	0.68
1:r:337:GLN:HE21	1:r:401:MET:HE3	1.58	0.68
1:8:337:GLN:HE21	1:8:401:MET:HE3	1.58	0.68
1:d:337:GLN:HE21	1:d:401:MET:HE3	1.58	0.68
1:n:337:GLN:HE21	1:n:401:MET:HE3	1.58	0.68
1:w:239:THR:OG1	1:w:241:ARG:NH1	2.23	0.68
1:5:239:THR:OG1	1:5:241:ARG:NH1	2.23	0.68
1:U:337:GLN:HE21	1:U:401:MET:HE3	1.58	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:X:337:GLN:HE21	1:X:401:MET:HE3	1.58	0.68
1:Z:337:GLN:HE21	1:Z:401:MET:HE3	1.58	0.68
1:v:497:TRP:O	1:v:502:LYS:NZ	2.17	0.68
1:X:239:THR:OG1	1:X:241:ARG:NH1	2.23	0.68
1:p:239:THR:OG1	1:p:241:ARG:NH1	2.23	0.68
1:s:337:GLN:HE21	1:s:401:MET:HE3	1.58	0.68
1:l:337:GLN:HE21	1:l:401:MET:HE3	1.58	0.68
1:B:337:GLN:HE21	1:B:401:MET:HE3	1.58	0.67
1:O:337:GLN:HE21	1:O:401:MET:HE3	1.58	0.67
1:V:337:GLN:HE21	1:V:401:MET:HE3	1.58	0.67
1:k:497:TRP:O	1:k:502:LYS:NZ	2.17	0.67
1:l:337:GLN:HE21	1:l:401:MET:HE3	1.58	0.67
1:o:337:GLN:HE21	1:o:401:MET:HE3	1.58	0.67
1:p:337:GLN:HE21	1:p:401:MET:HE3	1.58	0.67
1:K:337:GLN:HE21	1:K:401:MET:HE3	1.58	0.67
1:o:239:THR:OG1	1:o:241:ARG:NH1	2.23	0.67
1:V:239:THR:OG1	1:V:241:ARG:NH1	2.23	0.67
1:W:337:GLN:HE21	1:W:401:MET:HE3	1.58	0.67
1:Y:497:TRP:O	1:Y:502:LYS:NZ	2.17	0.67
1:c:718:VAL:HG13	1:c:720:ASP:OD2	1.95	0.67
1:h:497:TRP:O	1:h:502:LYS:NZ	2.17	0.67
1:6:337:GLN:HE21	1:6:401:MET:HE3	1.58	0.67
1:N:337:GLN:HE21	1:N:401:MET:HE3	1.58	0.67
1:e:718:VAL:HG13	1:e:720:ASP:OD2	1.95	0.67
1:w:337:GLN:HE21	1:w:401:MET:HE3	1.58	0.67
1:B:239:THR:OG1	1:B:241:ARG:NH1	2.23	0.67
1:F:718:VAL:HG13	1:F:720:ASP:OD2	1.95	0.67
1:f:337:GLN:HE21	1:f:401:MET:HE3	1.58	0.67
1:u:718:VAL:HG13	1:u:720:ASP:OD2	1.95	0.67
1:4:337:GLN:HE21	1:4:401:MET:HE3	1.58	0.67
1:I:718:VAL:HG13	1:I:720:ASP:OD2	1.95	0.67
1:e:239:THR:OG1	1:e:241:ARG:NH1	2.23	0.67
1:h:359:PRO:HD3	1:h:366:TYR:HB3	1.77	0.67
1:x:718:VAL:HG13	1:x:720:ASP:OD2	1.95	0.67
1:y:718:VAL:HG13	1:y:720:ASP:OD2	1.95	0.67
1:7:718:VAL:HG13	1:7:720:ASP:OD2	1.95	0.67
1:E:337:GLN:HE21	1:E:401:MET:HE3	1.58	0.67
1:N:359:PRO:HD3	1:N:366:TYR:HB3	1.77	0.67
1:Q:337:GLN:HE21	1:Q:401:MET:HE3	1.58	0.67
1:S:718:VAL:HG13	1:S:720:ASP:OD2	1.95	0.67
1:X:718:VAL:HG13	1:X:720:ASP:OD2	1.95	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:a:337:GLN:HE21	1:a:401:MET:HE3	1.58	0.67
1:i:337:GLN:HE21	1:i:401:MET:HE3	1.58	0.67
1:o:718:VAL:HG13	1:o:720:ASP:OD2	1.95	0.67
1:w:359:PRO:HD3	1:w:366:TYR:HB3	1.77	0.67
1:w:718:VAL:HG13	1:w:720:ASP:OD2	1.95	0.67
1:1:239:THR:OG1	1:1:241:ARG:NH1	2.23	0.67
1:7:497:TRP:O	1:7:502:LYS:NZ	2.17	0.67
1:E:359:PRO:HD3	1:E:366:TYR:HB3	1.77	0.67
1:E:718:VAL:HG13	1:E:720:ASP:OD2	1.95	0.67
1:F:359:PRO:HD3	1:F:366:TYR:HB3	1.77	0.67
1:L:359:PRO:HD3	1:L:366:TYR:HB3	1.77	0.67
1:M:359:PRO:HD3	1:M:366:TYR:HB3	1.77	0.67
1:P:337:GLN:HE21	1:P:401:MET:HE3	1.58	0.67
1:Q:359:PRO:HD3	1:Q:366:TYR:HB3	1.77	0.67
1:V:718:VAL:HG13	1:V:720:ASP:OD2	1.95	0.67
1:W:359:PRO:HD3	1:W:366:TYR:HB3	1.77	0.67
1:Y:718:VAL:HG13	1:Y:720:ASP:OD2	1.95	0.67
1:b:718:VAL:HG13	1:b:720:ASP:OD2	1.95	0.67
1:d:359:PRO:HD3	1:d:366:TYR:HB3	1.77	0.67
1:i:359:PRO:HD3	1:i:366:TYR:HB3	1.77	0.67
1:j:337:GLN:HE21	1:j:401:MET:HE3	1.58	0.67
1:n:359:PRO:HD3	1:n:366:TYR:HB3	1.77	0.67
1:n:718:VAL:HG13	1:n:720:ASP:OD2	1.95	0.67
1:y:359:PRO:HD3	1:y:366:TYR:HB3	1.77	0.67
1:4:497:TRP:O	1:4:502:LYS:NZ	2.17	0.67
1:Q:718:VAL:HG13	1:Q:720:ASP:OD2	1.95	0.67
1:T:718:VAL:HG13	1:T:720:ASP:OD2	1.95	0.67
1:b:337:GLN:HE21	1:b:401:MET:HE3	1.58	0.67
1:d:718:VAL:HG13	1:d:720:ASP:OD2	1.95	0.67
1:f:359:PRO:HD3	1:f:366:TYR:HB3	1.77	0.67
1:f:718:VAL:HG13	1:f:720:ASP:OD2	1.95	0.67
1:r:718:VAL:HG13	1:r:720:ASP:OD2	1.95	0.67
1:x:337:GLN:HE21	1:x:401:MET:HE3	1.58	0.67
1:x:359:PRO:HD3	1:x:366:TYR:HB3	1.77	0.67
1:z:359:PRO:HD3	1:z:366:TYR:HB3	1.77	0.67
1:3:337:GLN:HE21	1:3:401:MET:HE3	1.58	0.67
1:G:337:GLN:HE21	1:G:401:MET:HE3	1.58	0.67
1:Z:359:PRO:HD3	1:Z:366:TYR:HB3	1.77	0.67
1:Z:718:VAL:HG13	1:Z:720:ASP:OD2	1.95	0.67
1:m:718:VAL:HG13	1:m:720:ASP:OD2	1.95	0.67
1:o:359:PRO:HD3	1:o:366:TYR:HB3	1.77	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:p:718:VAL:HG13	1:p:720:ASP:OD2	1.95	0.67
1:q:497:TRP:O	1:q:502:LYS:NZ	2.17	0.67
1:t:337:GLN:HE21	1:t:401:MET:HE3	1.58	0.67
1:u:359:PRO:HD3	1:u:366:TYR:HB3	1.77	0.67
1:6:359:PRO:HD3	1:6:366:TYR:HB3	1.77	0.67
1:8:718:VAL:HG13	1:8:720:ASP:OD2	1.95	0.67
1:C:359:PRO:HD3	1:C:366:TYR:HB3	1.77	0.66
1:I:359:PRO:HD3	1:I:366:TYR:HB3	1.77	0.66
1:R:337:GLN:HE21	1:R:401:MET:HE3	1.58	0.66
1:R:718:VAL:HG13	1:R:720:ASP:OD2	1.95	0.66
1:W:497:TRP:O	1:W:502:LYS:NZ	2.17	0.66
1:X:359:PRO:HD3	1:X:366:TYR:HB3	1.77	0.66
1:Y:337:GLN:HE21	1:Y:401:MET:HE3	1.58	0.66
1:b:359:PRO:HD3	1:b:366:TYR:HB3	1.77	0.66
1:c:239:THR:OG1	1:c:241:ARG:NH1	2.23	0.66
1:c:359:PRO:HD3	1:c:366:TYR:HB3	1.77	0.66
1:l:497:TRP:O	1:l:502:LYS:NZ	2.17	0.66
1:q:718:VAL:HG13	1:q:720:ASP:OD2	1.95	0.66
1:7:337:GLN:HE21	1:7:401:MET:HE3	1.58	0.66
1:8:359:PRO:HD3	1:8:366:TYR:HB3	1.77	0.66
1:D:239:THR:OG1	1:D:241:ARG:NH1	2.23	0.66
1:H:718:VAL:HG13	1:H:720:ASP:OD2	1.95	0.66
1:O:497:TRP:O	1:O:502:LYS:NZ	2.17	0.66
1:S:239:THR:OG1	1:S:241:ARG:NH1	2.23	0.66
1:e:359:PRO:HD3	1:e:366:TYR:HB3	1.77	0.66
1:g:359:PRO:HD3	1:g:366:TYR:HB3	1.77	0.66
1:5:718:VAL:HG13	1:5:720:ASP:OD2	1.95	0.66
1:C:718:VAL:HG13	1:C:720:ASP:OD2	1.95	0.66
1:N:239:THR:OG1	1:N:241:ARG:NH1	2.23	0.66
1:O:718:VAL:HG13	1:O:720:ASP:OD2	1.95	0.66
1:S:359:PRO:HD3	1:S:366:TYR:HB3	1.77	0.66
1:g:718:VAL:HG13	1:g:720:ASP:OD2	1.95	0.66
1:k:239:THR:OG1	1:k:241:ARG:NH1	2.23	0.66
1:q:337:GLN:HE21	1:q:401:MET:HE3	1.58	0.66
1:z:718:VAL:HG13	1:z:720:ASP:OD2	1.95	0.66
1:G:359:PRO:HD3	1:G:366:TYR:HB3	1.77	0.66
1:K:359:PRO:HD3	1:K:366:TYR:HB3	1.77	0.66
1:Y:359:PRO:HD3	1:Y:366:TYR:HB3	1.77	0.66
1:t:359:PRO:HD3	1:t:366:TYR:HB3	1.77	0.66
1:I:337:GLN:HE21	1:I:401:MET:HE3	1.58	0.66
1:L:718:VAL:HG13	1:L:720:ASP:OD2	1.95	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:r:359:PRO:HD3	1:r:366:TYR:HB3	1.77	0.66
1:v:359:PRO:HD3	1:v:366:TYR:HB3	1.77	0.66
1:4:359:PRO:HD3	1:4:366:TYR:HB3	1.77	0.66
1:6:497:TRP:O	1:6:502:LYS:NZ	2.17	0.66
1:7:359:PRO:HD3	1:7:366:TYR:HB3	1.77	0.66
1:A:359:PRO:HD3	1:A:366:TYR:HB3	1.77	0.66
1:I:239:THR:OG1	1:I:241:ARG:NH1	2.23	0.66
1:Y:239:THR:OG1	1:Y:241:ARG:NH1	2.23	0.66
1:l:718:VAL:HG13	1:l:720:ASP:OD2	1.95	0.66
1:r:239:THR:OG1	1:r:241:ARG:NH1	2.23	0.66
1:3:718:VAL:HG13	1:3:720:ASP:OD2	1.95	0.66
1:6:718:VAL:HG13	1:6:720:ASP:OD2	1.95	0.66
1:7:239:THR:OG1	1:7:241:ARG:NH1	2.23	0.66
1:a:359:PRO:HD3	1:a:366:TYR:HB3	1.77	0.66
1:h:718:VAL:HG13	1:h:720:ASP:OD2	1.95	0.66
1:i:718:VAL:HG13	1:i:720:ASP:OD2	1.95	0.66
1:3:359:PRO:HD3	1:3:366:TYR:HB3	1.77	0.66
1:O:359:PRO:HD3	1:O:366:TYR:HB3	1.77	0.66
1:W:718:VAL:HG13	1:W:720:ASP:OD2	1.95	0.66
1:a:718:VAL:HG13	1:a:720:ASP:OD2	1.95	0.66
1:u:337:GLN:HE21	1:u:401:MET:HE3	1.58	0.66
1:H:359:PRO:HD3	1:H:366:TYR:HB3	1.77	0.66
1:M:718:VAL:HG13	1:M:720:ASP:OD2	1.95	0.66
1:N:497:TRP:O	1:N:502:LYS:NZ	2.17	0.66
1:i:497:TRP:O	1:i:502:LYS:NZ	2.17	0.66
1:u:239:THR:OG1	1:u:241:ARG:NH1	2.23	0.66
1:D:718:VAL:HG13	1:D:720:ASP:OD2	1.95	0.66
1:l:359:PRO:HD3	1:l:366:TYR:HB3	1.77	0.66
1:2:718:VAL:HG13	1:2:720:ASP:OD2	1.95	0.66
1:5:359:PRO:HD3	1:5:366:TYR:HB3	1.77	0.66
1:G:718:VAL:HG13	1:G:720:ASP:OD2	1.95	0.65
1:J:718:VAL:HG13	1:J:720:ASP:OD2	1.95	0.65
1:N:718:VAL:HG13	1:N:720:ASP:OD2	1.95	0.65
1:P:359:PRO:HD3	1:P:366:TYR:HB3	1.77	0.65
1:p:359:PRO:HD3	1:p:366:TYR:HB3	1.77	0.65
1:t:718:VAL:HG13	1:t:720:ASP:OD2	1.95	0.65
1:v:718:VAL:HG13	1:v:720:ASP:OD2	1.95	0.65
1:J:359:PRO:HD3	1:J:366:TYR:HB3	1.77	0.65
1:V:359:PRO:HD3	1:V:366:TYR:HB3	1.77	0.65
1:1:718:VAL:HG13	1:1:720:ASP:OD2	1.95	0.65
1:A:718:VAL:HG13	1:A:720:ASP:OD2	1.95	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:359:PRO:HD3	1:B:366:TYR:HB3	1.77	0.65
1:P:718:VAL:HG13	1:P:720:ASP:OD2	1.95	0.65
1:j:359:PRO:HD3	1:j:366:TYR:HB3	1.77	0.65
1:k:718:VAL:HG13	1:k:720:ASP:OD2	1.95	0.65
1:j:718:VAL:HG13	1:j:720:ASP:OD2	1.95	0.65
1:2:359:PRO:HD3	1:2:366:TYR:HB3	1.77	0.65
1:B:718:VAL:HG13	1:B:720:ASP:OD2	1.95	0.65
1:R:359:PRO:HD3	1:R:366:TYR:HB3	1.77	0.65
1:s:718:VAL:HG13	1:s:720:ASP:OD2	1.95	0.65
1:1:359:PRO:HD3	1:1:366:TYR:HB3	1.77	0.65
1:D:359:PRO:HD3	1:D:366:TYR:HB3	1.77	0.65
1:b:215:ASP:OD1	1:b:216:GLY:N	2.30	0.65
1:f:215:ASP:OD1	1:f:216:GLY:N	2.30	0.65
1:4:718:VAL:HG13	1:4:720:ASP:OD2	1.95	0.65
1:U:718:VAL:HG13	1:U:720:ASP:OD2	1.95	0.65
1:X:215:ASP:OD1	1:X:216:GLY:N	2.30	0.65
1:o:215:ASP:OD1	1:o:216:GLY:N	2.30	0.65
1:K:718:VAL:HG13	1:K:720:ASP:OD2	1.95	0.65
1:Q:215:ASP:OD1	1:Q:216:GLY:N	2.30	0.65
1:U:359:PRO:HD3	1:U:366:TYR:HB3	1.77	0.65
1:k:359:PRO:HD3	1:k:366:TYR:HB3	1.77	0.65
1:q:359:PRO:HD3	1:q:366:TYR:HB3	1.77	0.65
1:x:215:ASP:OD1	1:x:216:GLY:N	2.30	0.65
1:T:359:PRO:HD3	1:T:366:TYR:HB3	1.77	0.65
1:H:497:TRP:O	1:H:502:LYS:NZ	2.17	0.65
1:e:215:ASP:OD1	1:e:216:GLY:N	2.30	0.65
1:m:359:PRO:HD3	1:m:366:TYR:HB3	1.77	0.65
1:D:215:ASP:OD1	1:D:216:GLY:N	2.30	0.64
1:V:215:ASP:OD1	1:V:216:GLY:N	2.30	0.64
1:c:215:ASP:OD1	1:c:216:GLY:N	2.30	0.64
1:k:215:ASP:OD1	1:k:216:GLY:N	2.30	0.64
1:S:215:ASP:OD1	1:S:216:GLY:N	2.30	0.64
1:p:215:ASP:OD1	1:p:216:GLY:N	2.30	0.64
1:s:359:PRO:HD3	1:s:366:TYR:HB3	1.77	0.64
1:v:215:ASP:OD1	1:v:216:GLY:N	2.30	0.64
1:A:215:ASP:OD1	1:A:216:GLY:N	2.30	0.64
1:r:215:ASP:OD1	1:r:216:GLY:N	2.30	0.64
1:3:215:ASP:OD1	1:3:216:GLY:N	2.30	0.64
1:E:215:ASP:OD1	1:E:216:GLY:N	2.30	0.64
1:F:215:ASP:OD1	1:F:216:GLY:N	2.30	0.64
1:K:215:ASP:OD1	1:K:216:GLY:N	2.30	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:w:215:ASP:OD1	1:w:216:GLY:N	2.30	0.64
1:4:215:ASP:OD1	1:4:216:GLY:N	2.30	0.64
1:P:239:THR:OG1	1:P:241:ARG:NH1	2.23	0.64
1:a:215:ASP:OD1	1:a:216:GLY:N	2.30	0.64
1:j:239:THR:OG1	1:j:241:ARG:NH1	2.23	0.64
1:l:215:ASP:OD1	1:l:216:GLY:N	2.30	0.64
1:7:215:ASP:OD1	1:7:216:GLY:N	2.30	0.64
1:O:215:ASP:OD1	1:O:216:GLY:N	2.30	0.64
1:Y:215:ASP:OD1	1:Y:216:GLY:N	2.30	0.64
1:m:215:ASP:OD1	1:m:216:GLY:N	2.30	0.64
1:y:215:ASP:OD1	1:y:216:GLY:N	2.30	0.64
1:M:215:ASP:OD1	1:M:216:GLY:N	2.30	0.64
1:T:215:ASP:OD1	1:T:216:GLY:N	2.30	0.64
1:h:215:ASP:OD1	1:h:216:GLY:N	2.30	0.64
1:2:215:ASP:OD1	1:2:216:GLY:N	2.30	0.64
1:J:215:ASP:OD1	1:J:216:GLY:N	2.30	0.64
1:L:215:ASP:OD1	1:L:216:GLY:N	2.30	0.64
1:g:215:ASP:OD1	1:g:216:GLY:N	2.30	0.64
1:z:215:ASP:OD1	1:z:216:GLY:N	2.30	0.64
1:8:215:ASP:OD1	1:8:216:GLY:N	2.30	0.64
1:C:215:ASP:OD1	1:C:216:GLY:N	2.30	0.64
1:I:215:ASP:OD1	1:I:216:GLY:N	2.30	0.64
1:Z:215:ASP:OD1	1:Z:216:GLY:N	2.30	0.64
1:n:215:ASP:OD1	1:n:216:GLY:N	2.30	0.64
1:q:215:ASP:OD1	1:q:216:GLY:N	2.30	0.64
1:R:215:ASP:OD1	1:R:216:GLY:N	2.30	0.63
1:W:215:ASP:OD1	1:W:216:GLY:N	2.30	0.63
1:d:215:ASP:OD1	1:d:216:GLY:N	2.30	0.63
1:u:215:ASP:OD1	1:u:216:GLY:N	2.30	0.63
1:U:215:ASP:OD1	1:U:216:GLY:N	2.30	0.63
1:s:215:ASP:OD1	1:s:216:GLY:N	2.30	0.63
1:2:215:ASP:OD1	1:2:219:ASN:HB2	1.99	0.63
1:J:215:ASP:OD1	1:J:219:ASN:HB2	1.99	0.63
1:P:215:ASP:OD1	1:P:216:GLY:N	2.30	0.63
1:1:215:ASP:OD1	1:1:216:GLY:N	2.30	0.63
1:5:215:ASP:OD1	1:5:216:GLY:N	2.30	0.63
1:B:215:ASP:OD1	1:B:216:GLY:N	2.30	0.63
1:I:215:ASP:OD1	1:I:219:ASN:HB2	1.99	0.63
1:a:215:ASP:OD1	1:a:219:ASN:HB2	1.99	0.63
1:u:215:ASP:OD1	1:u:219:ASN:HB2	1.99	0.63
1:6:215:ASP:OD1	1:6:216:GLY:N	2.30	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:624:LYS:HG2	1:I:602:VAL:HG12	1.81	0.63
1:H:215:ASP:OD1	1:H:216:GLY:N	2.30	0.63
1:X:215:ASP:OD1	1:X:219:ASN:HB2	1.99	0.63
1:j:215:ASP:OD1	1:j:216:GLY:N	2.30	0.63
1:t:215:ASP:OD1	1:t:216:GLY:N	2.30	0.63
1:3:215:ASP:OD1	1:3:219:ASN:HB2	1.99	0.63
1:G:215:ASP:OD1	1:G:219:ASN:HB2	1.99	0.63
1:N:215:ASP:OD1	1:N:219:ASN:HB2	1.99	0.63
1:S:215:ASP:OD1	1:S:219:ASN:HB2	1.99	0.63
1:o:215:ASP:OD1	1:o:219:ASN:HB2	1.99	0.63
1:F:624:LYS:HG2	1:Q:602:VAL:HG12	1.81	0.63
1:G:215:ASP:OD1	1:G:216:GLY:N	2.30	0.63
1:K:624:LYS:HG2	1:8:602:VAL:HG12	1.81	0.63
1:Z:602:VAL:HG12	1:4:624:LYS:HG2	1.81	0.63
1:i:215:ASP:OD1	1:i:216:GLY:N	2.30	0.63
1:i:215:ASP:OD1	1:i:219:ASN:HB2	1.99	0.63
1:r:215:ASP:OD1	1:r:219:ASN:HB2	1.99	0.63
1:D:215:ASP:OD1	1:D:219:ASN:HB2	1.99	0.63
1:P:215:ASP:OD1	1:P:219:ASN:HB2	1.99	0.63
1:j:215:ASP:OD1	1:j:219:ASN:HB2	1.99	0.63
1:t:215:ASP:OD1	1:t:219:ASN:HB2	1.99	0.63
1:u:602:VAL:HG12	1:v:624:LYS:HG2	1.81	0.63
1:x:602:VAL:HG12	1:y:624:LYS:HG2	1.81	0.63
1:A:215:ASP:OD1	1:A:219:ASN:HB2	1.99	0.63
1:B:624:LYS:HG2	1:L:602:VAL:HG12	1.81	0.63
1:E:602:VAL:HG12	1:Q:624:LYS:HG2	1.81	0.63
1:N:215:ASP:OD1	1:N:216:GLY:N	2.30	0.63
1:d:497:TRP:O	1:d:502:LYS:NZ	2.17	0.63
1:i:354:THR:HA	1:k:439:GLN:HA	1.81	0.63
1:k:215:ASP:OD1	1:k:219:ASN:HB2	1.99	0.63
1:v:215:ASP:OD1	1:v:219:ASN:HB2	1.99	0.63
1:w:602:VAL:HG12	1:x:624:LYS:HG2	1.81	0.63
1:z:602:VAL:HG12	1:1:624:LYS:HG2	1.81	0.63
1:E:624:LYS:HG2	1:F:602:VAL:HG12	1.81	0.62
1:M:215:ASP:OD1	1:M:219:ASN:HB2	1.99	0.62
1:O:215:ASP:OD1	1:O:219:ASN:HB2	1.99	0.62
1:a:602:VAL:HG12	1:8:624:LYS:HG2	1.81	0.62
1:q:215:ASP:OD1	1:q:219:ASN:HB2	1.99	0.62
1:J:602:VAL:HG12	1:L:624:LYS:HG2	1.82	0.62
1:Z:624:LYS:HG2	1:3:602:VAL:HG12	1.82	0.62
1:f:215:ASP:OD1	1:f:219:ASN:HB2	1.99	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:l:215:ASP:OD1	1:l:219:ASN:HB2	1.99	0.62
1:z:624:LYS:HG2	1:2:602:VAL:HG12	1.82	0.62
1:5:354:THR:HA	1:7:439:GLN:HA	1.81	0.62
1:M:624:LYS:HG2	1:b:602:VAL:HG12	1.81	0.62
1:R:215:ASP:OD1	1:R:219:ASN:HB2	1.99	0.62
1:V:602:VAL:HG12	1:e:624:LYS:HG2	1.81	0.62
1:W:439:GLN:HA	1:Y:354:THR:HA	1.81	0.62
1:Y:215:ASP:OD1	1:Y:219:ASN:HB2	1.99	0.62
1:c:624:LYS:HG2	1:p:602:VAL:HG12	1.81	0.62
1:f:602:VAL:HG12	1:h:624:LYS:HG2	1.81	0.62
1:h:215:ASP:OD1	1:h:219:ASN:HB2	1.99	0.62
1:i:624:LYS:HG2	1:k:602:VAL:HG12	1.81	0.62
1:s:215:ASP:OD1	1:s:219:ASN:HB2	1.99	0.62
1:w:624:LYS:HG2	1:y:602:VAL:HG12	1.81	0.62
1:7:215:ASP:OD1	1:7:219:ASN:HB2	1.99	0.62
1:C:624:LYS:HG2	1:M:602:VAL:HG12	1.81	0.62
1:G:602:VAL:HG12	1:I:624:LYS:HG2	1.81	0.62
1:R:624:LYS:HG2	1:U:602:VAL:HG12	1.81	0.62
1:Z:215:ASP:OD1	1:Z:219:ASN:HB2	1.99	0.62
1:b:215:ASP:OD1	1:b:219:ASN:HB2	1.99	0.62
1:i:602:VAL:HG12	1:j:624:LYS:HG2	1.81	0.62
1:t:602:VAL:HG12	1:u:624:LYS:HG2	1.81	0.62
1:B:215:ASP:OD1	1:B:219:ASN:HB2	1.99	0.62
1:K:354:THR:HA	1:8:439:GLN:HA	1.82	0.62
1:d:602:VAL:HG12	1:l:624:LYS:HG2	1.81	0.62
1:g:624:LYS:HG2	1:h:602:VAL:HG12	1.81	0.62
1:q:624:LYS:HG2	1:s:602:VAL:HG12	1.81	0.62
1:5:624:LYS:HG2	1:7:602:VAL:HG12	1.81	0.62
1:6:602:VAL:HG12	1:7:624:LYS:HG2	1.81	0.62
1:8:215:ASP:OD1	1:8:219:ASN:HB2	1.99	0.62
1:A:439:GLN:HA	1:G:354:THR:HA	1.81	0.62
1:O:624:LYS:HG2	1:n:602:VAL:HG12	1.82	0.62
1:U:215:ASP:OD1	1:U:219:ASN:HB2	1.99	0.62
1:Z:439:GLN:HA	1:4:354:THR:HA	1.82	0.62
1:y:215:ASP:OD1	1:y:219:ASN:HB2	1.99	0.62
1:D:602:VAL:HG12	1:N:624:LYS:HG2	1.81	0.62
1:F:215:ASP:OD1	1:F:219:ASN:HB2	1.99	0.62
1:H:624:LYS:HG2	1:Y:602:VAL:HG12	1.81	0.62
1:N:602:VAL:HG12	1:P:624:LYS:HG2	1.82	0.62
1:O:602:VAL:HG12	1:m:624:LYS:HG2	1.81	0.62
1:T:354:THR:HA	1:l:439:GLN:HA	1.82	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:n:215:ASP:OD1	1:n:219:ASN:HB2	1.99	0.62
1:1:215:ASP:OD1	1:1:219:ASN:HB2	1.99	0.62
1:5:215:ASP:OD1	1:5:219:ASN:HB2	1.99	0.62
1:A:354:THR:HA	1:I:439:GLN:HA	1.82	0.62
1:G:439:GLN:HA	1:I:354:THR:HA	1.82	0.62
1:K:215:ASP:OD1	1:K:219:ASN:HB2	1.99	0.62
1:O:439:GLN:HA	1:m:354:THR:HA	1.82	0.62
1:T:624:LYS:HG2	1:l:602:VAL:HG12	1.81	0.62
1:t:439:GLN:HA	1:u:354:THR:HA	1.82	0.62
1:u:439:GLN:HA	1:v:354:THR:HA	1.82	0.62
1:6:439:GLN:HA	1:7:354:THR:HA	1.81	0.62
1:D:576:THR:HG23	1:D:592:LEU:HB2	1.82	0.62
1:H:215:ASP:OD1	1:H:219:ASN:HB2	1.99	0.62
1:K:439:GLN:HA	1:a:354:THR:HA	1.82	0.62
1:R:354:THR:HA	1:U:439:GLN:HA	1.82	0.62
1:W:602:VAL:HG12	1:Y:624:LYS:HG2	1.81	0.62
1:X:354:THR:HA	1:e:439:GLN:HA	1.82	0.62
1:Y:576:THR:HG23	1:Y:592:LEU:HB2	1.82	0.62
1:q:354:THR:HA	1:s:439:GLN:HA	1.82	0.62
1:3:354:THR:HA	1:4:439:GLN:HA	1.82	0.62
1:3:576:THR:HG23	1:3:592:LEU:HB2	1.82	0.62
1:5:602:VAL:HG12	1:6:624:LYS:HG2	1.82	0.62
1:B:576:THR:HG23	1:B:592:LEU:HB2	1.82	0.62
1:G:576:THR:HG23	1:G:592:LEU:HB2	1.82	0.62
1:H:602:VAL:HG12	1:W:624:LYS:HG2	1.82	0.62
1:P:349:VAL:H	1:P:642:GLN:NE2	1.98	0.62
1:V:349:VAL:H	1:V:642:GLN:NE2	1.98	0.62
1:W:215:ASP:OD1	1:W:219:ASN:HB2	1.99	0.62
1:X:624:LYS:HG2	1:e:602:VAL:HG12	1.81	0.62
1:Z:354:THR:HA	1:3:439:GLN:HA	1.82	0.62
1:a:576:THR:HG23	1:a:592:LEU:HB2	1.82	0.62
1:c:602:VAL:HG12	1:o:624:LYS:HG2	1.81	0.62
1:d:215:ASP:OD1	1:d:219:ASN:HB2	1.99	0.62
1:g:215:ASP:OD1	1:g:219:ASN:HB2	1.99	0.62
1:i:439:GLN:HA	1:j:354:THR:HA	1.82	0.62
1:j:349:VAL:H	1:j:642:GLN:NE2	1.98	0.62
1:k:576:THR:HG23	1:k:592:LEU:HB2	1.82	0.62
1:p:349:VAL:H	1:p:642:GLN:NE2	1.98	0.62
1:t:354:THR:HA	1:v:439:GLN:HA	1.82	0.62
1:t:576:THR:HG23	1:t:592:LEU:HB2	1.82	0.62
1:1:576:THR:HG23	1:1:592:LEU:HB2	1.82	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:4:215:ASP:OD1	1:4:219:ASN:HB2	1.99	0.62
1:6:215:ASP:OD1	1:6:219:ASN:HB2	1.99	0.62
1:C:215:ASP:OD1	1:C:219:ASN:HB2	1.99	0.61
1:D:439:GLN:HA	1:N:354:THR:HA	1.82	0.61
1:E:215:ASP:OD1	1:E:219:ASN:HB2	1.99	0.61
1:L:215:ASP:OD1	1:L:219:ASN:HB2	1.99	0.61
1:U:349:VAL:H	1:U:642:GLN:NE2	1.98	0.61
1:a:439:GLN:HA	1:8:354:THR:HA	1.82	0.61
1:c:439:GLN:HA	1:o:354:THR:HA	1.82	0.61
1:p:215:ASP:OD1	1:p:219:ASN:HB2	1.99	0.61
1:w:215:ASP:OD1	1:w:219:ASN:HB2	1.99	0.61
1:x:349:VAL:H	1:x:642:GLN:NE2	1.98	0.61
1:z:215:ASP:OD1	1:z:219:ASN:HB2	1.99	0.61
1:7:576:THR:HG23	1:7:592:LEU:HB2	1.82	0.61
1:N:444:PHE:HA	1:N:455:PHE:HD1	1.66	0.61
1:Q:215:ASP:OD1	1:Q:219:ASN:HB2	1.99	0.61
1:R:439:GLN:HA	1:S:354:THR:HA	1.82	0.61
1:S:576:THR:HG23	1:S:592:LEU:HB2	1.82	0.61
1:V:215:ASP:OD1	1:V:219:ASN:HB2	1.99	0.61
1:V:624:LYS:HG2	1:X:602:VAL:HG12	1.81	0.61
1:j:439:GLN:HA	1:k:354:THR:HA	1.82	0.61
1:m:215:ASP:OD1	1:m:219:ASN:HB2	1.99	0.61
1:q:439:GLN:HA	1:r:354:THR:HA	1.83	0.61
1:s:349:VAL:H	1:s:642:GLN:NE2	1.98	0.61
1:A:444:PHE:HA	1:A:455:PHE:HD1	1.66	0.61
1:F:349:VAL:H	1:F:642:GLN:NE2	1.98	0.61
1:H:576:THR:HG23	1:H:592:LEU:HB2	1.82	0.61
1:N:439:GLN:HA	1:P:354:THR:HA	1.82	0.61
1:Q:349:VAL:H	1:Q:642:GLN:NE2	1.98	0.61
1:S:439:GLN:HA	1:U:354:THR:HA	1.82	0.61
1:T:439:GLN:HA	1:d:354:THR:HA	1.82	0.61
1:T:602:VAL:HG12	1:d:624:LYS:HG2	1.81	0.61
1:V:439:GLN:HA	1:e:354:THR:HA	1.82	0.61
1:a:444:PHE:HA	1:a:455:PHE:HD1	1.66	0.61
1:c:215:ASP:OD1	1:c:219:ASN:HB2	1.99	0.61
1:i:444:PHE:HA	1:i:455:PHE:HD1	1.66	0.61
1:o:602:VAL:HG12	1:p:624:LYS:HG2	1.81	0.61
1:r:576:THR:HG23	1:r:592:LEU:HB2	1.82	0.61
1:v:444:PHE:HA	1:v:455:PHE:HD1	1.66	0.61
1:x:215:ASP:OD1	1:x:219:ASN:HB2	1.99	0.61
1:y:349:VAL:H	1:y:642:GLN:NE2	1.98	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:576:THR:HG23	1:A:592:LEU:HB2	1.82	0.61
1:D:354:THR:HA	1:P:439:GLN:HA	1.83	0.61
1:G:444:PHE:HA	1:G:455:PHE:HD1	1.66	0.61
1:T:215:ASP:OD1	1:T:219:ASN:HB2	1.99	0.61
1:Y:444:PHE:HA	1:Y:455:PHE:HD1	1.66	0.61
1:e:215:ASP:OD1	1:e:219:ASN:HB2	1.99	0.61
1:m:439:GLN:HA	1:n:354:THR:HA	1.82	0.61
1:m:602:VAL:HG12	1:n:624:LYS:HG2	1.81	0.61
1:r:439:GLN:HA	1:s:354:THR:HA	1.82	0.61
1:t:444:PHE:HA	1:t:455:PHE:HD1	1.66	0.61
1:u:444:PHE:HA	1:u:455:PHE:HD1	1.65	0.61
1:3:444:PHE:HA	1:3:455:PHE:HD1	1.66	0.61
1:4:576:THR:HG23	1:4:592:LEU:HB2	1.82	0.61
1:5:576:THR:HG23	1:5:592:LEU:HB2	1.82	0.61
1:8:444:PHE:HA	1:8:455:PHE:HD1	1.66	0.61
1:H:349:VAL:H	1:H:642:GLN:NE2	1.98	0.61
1:H:354:THR:HA	1:Y:439:GLN:HA	1.82	0.61
1:I:444:PHE:HA	1:I:455:PHE:HD1	1.66	0.61
1:K:576:THR:HG23	1:K:592:LEU:HB2	1.82	0.61
1:S:444:PHE:HA	1:S:455:PHE:HD1	1.66	0.61
1:Z:444:PHE:HA	1:Z:455:PHE:HD1	1.66	0.61
1:a:349:VAL:H	1:a:642:GLN:NE2	1.98	0.61
1:c:354:THR:HA	1:p:439:GLN:HA	1.82	0.61
1:d:439:GLN:HA	1:l:354:THR:HA	1.82	0.61
1:r:444:PHE:HA	1:r:455:PHE:HD1	1.66	0.61
1:r:602:VAL:HG12	1:s:624:LYS:HG2	1.81	0.61
1:v:349:VAL:H	1:v:642:GLN:NE2	1.98	0.61
1:v:576:THR:HG23	1:v:592:LEU:HB2	1.82	0.61
1:x:444:PHE:HA	1:x:455:PHE:HD1	1.66	0.61
1:z:576:THR:HG23	1:z:592:LEU:HB2	1.82	0.61
1:3:624:LYS:HG2	1:4:602:VAL:HG12	1.81	0.61
1:4:349:VAL:H	1:4:642:GLN:NE2	1.98	0.61
1:5:439:GLN:HA	1:6:354:THR:HA	1.82	0.61
1:7:444:PHE:HA	1:7:455:PHE:HD1	1.66	0.61
1:A:349:VAL:H	1:A:642:GLN:NE2	1.98	0.61
1:A:602:VAL:HG12	1:G:624:LYS:HG2	1.81	0.61
1:H:444:PHE:HA	1:H:455:PHE:HD1	1.66	0.61
1:L:576:THR:HG23	1:L:592:LEU:HB2	1.82	0.61
1:Q:444:PHE:HA	1:Q:455:PHE:HD1	1.66	0.61
1:R:602:VAL:HG12	1:S:624:LYS:HG2	1.82	0.61
1:T:444:PHE:HA	1:T:455:PHE:HD1	1.66	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:W:576:THR:HG23	1:W:592:LEU:HB2	1.82	0.61
1:c:349:VAL:H	1:c:642:GLN:NE2	1.98	0.61
1:e:349:VAL:H	1:e:642:GLN:NE2	1.98	0.61
1:m:444:PHE:HA	1:m:455:PHE:HD1	1.66	0.61
1:n:444:PHE:HA	1:n:455:PHE:HD1	1.66	0.61
1:q:349:VAL:H	1:q:642:GLN:NE2	1.98	0.61
1:3:349:VAL:H	1:3:642:GLN:NE2	1.98	0.61
1:5:349:VAL:H	1:5:642:GLN:NE2	1.98	0.61
1:8:576:THR:HG23	1:8:592:LEU:HB2	1.82	0.61
1:C:576:THR:HG23	1:C:592:LEU:HB2	1.82	0.61
1:E:497:TRP:O	1:E:502:LYS:NZ	2.17	0.61
1:K:349:VAL:H	1:K:642:GLN:NE2	1.98	0.61
1:K:602:VAL:HG12	1:a:624:LYS:HG2	1.81	0.61
1:R:349:VAL:H	1:R:642:GLN:NE2	1.98	0.61
1:R:576:THR:HG23	1:R:592:LEU:HB2	1.82	0.61
1:S:602:VAL:HG12	1:U:624:LYS:HG2	1.82	0.61
1:T:349:VAL:H	1:T:642:GLN:NE2	1.98	0.61
1:U:444:PHE:HA	1:U:455:PHE:HD1	1.66	0.61
1:d:444:PHE:HA	1:d:455:PHE:HD1	1.66	0.61
1:g:576:THR:HG23	1:g:592:LEU:HB2	1.82	0.61
1:l:349:VAL:H	1:l:642:GLN:NE2	1.98	0.61
1:l:444:PHE:HA	1:l:455:PHE:HD1	1.66	0.61
1:t:624:LYS:HG2	1:v:602:VAL:HG12	1.81	0.61
1:E:349:VAL:H	1:E:642:GLN:NE2	1.98	0.61
1:H:439:GLN:HA	1:W:354:THR:HA	1.83	0.61
1:O:354:THR:HA	1:n:439:GLN:HA	1.82	0.61
1:Z:576:THR:HG23	1:Z:592:LEU:HB2	1.82	0.61
1:q:602:VAL:HG12	1:r:624:LYS:HG2	1.82	0.61
1:1:444:PHE:HA	1:1:455:PHE:HD1	1.66	0.61
1:5:444:PHE:HA	1:5:455:PHE:HD1	1.66	0.61
1:6:576:THR:HG23	1:6:592:LEU:HB2	1.82	0.61
1:B:439:GLN:HA	1:J:354:THR:HA	1.83	0.61
1:B:444:PHE:HA	1:B:455:PHE:HD1	1.66	0.61
1:B:602:VAL:HG12	1:J:624:LYS:HG2	1.82	0.61
1:D:349:VAL:H	1:D:642:GLN:NE2	1.98	0.61
1:L:317:LYS:NZ	1:L:330:ASN:OD1	2.34	0.61
1:O:317:LYS:NZ	1:O:330:ASN:OD1	2.34	0.61
1:O:349:VAL:H	1:O:642:GLN:NE2	1.98	0.61
1:f:444:PHE:HA	1:f:455:PHE:HD1	1.66	0.61
1:h:444:PHE:HA	1:h:455:PHE:HD1	1.66	0.61
1:m:349:VAL:H	1:m:642:GLN:NE2	1.98	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:o:349:VAL:H	1:o:642:GLN:NE2	1.98	0.61
1:s:444:PHE:HA	1:s:455:PHE:HD1	1.66	0.61
1:z:317:LYS:NZ	1:z:330:ASN:OD1	2.34	0.61
1:1:439:GLN:HA	1:2:354:THR:HA	1.83	0.61
1:1:602:VAL:HG12	1:2:624:LYS:HG2	1.82	0.61
1:K:444:PHE:HA	1:K:455:PHE:HD1	1.66	0.61
1:O:444:PHE:HA	1:O:455:PHE:HD1	1.66	0.61
1:Q:317:LYS:NZ	1:Q:330:ASN:OD1	2.34	0.61
1:S:317:LYS:NZ	1:S:330:ASN:OD1	2.34	0.61
1:V:317:LYS:NZ	1:V:330:ASN:OD1	2.34	0.61
1:X:349:VAL:H	1:X:642:GLN:NE2	1.98	0.61
1:b:444:PHE:HA	1:b:455:PHE:HD1	1.66	0.61
1:f:317:LYS:NZ	1:f:330:ASN:OD1	2.34	0.61
1:f:624:LYS:HG2	1:g:602:VAL:HG12	1.81	0.61
1:k:349:VAL:H	1:k:642:GLN:NE2	1.98	0.61
1:l:317:LYS:NZ	1:l:330:ASN:OD1	2.34	0.61
1:q:317:LYS:NZ	1:q:330:ASN:OD1	2.34	0.61
1:r:317:LYS:NZ	1:r:330:ASN:OD1	2.34	0.61
1:u:317:LYS:NZ	1:u:330:ASN:OD1	2.34	0.61
1:w:349:VAL:H	1:w:642:GLN:NE2	1.98	0.61
1:x:317:LYS:NZ	1:x:330:ASN:OD1	2.34	0.61
1:4:444:PHE:HA	1:4:455:PHE:HD1	1.66	0.61
1:C:354:THR:HA	1:M:439:GLN:HA	1.82	0.60
1:C:602:VAL:HG12	1:b:624:LYS:HG2	1.81	0.60
1:D:624:LYS:HG2	1:P:602:VAL:HG12	1.82	0.60
1:E:439:GLN:HA	1:Q:354:THR:HA	1.82	0.60
1:I:576:THR:HG23	1:I:592:LEU:HB2	1.82	0.60
1:M:444:PHE:HA	1:M:455:PHE:HD1	1.66	0.60
1:R:317:LYS:NZ	1:R:330:ASN:OD1	2.34	0.60
1:T:317:LYS:NZ	1:T:330:ASN:OD1	2.34	0.60
1:b:317:LYS:NZ	1:b:330:ASN:OD1	2.34	0.60
1:h:349:VAL:H	1:h:642:GLN:NE2	1.98	0.60
1:m:317:LYS:NZ	1:m:330:ASN:OD1	2.34	0.60
1:m:576:THR:HG23	1:m:592:LEU:HB2	1.82	0.60
1:n:349:VAL:H	1:n:642:GLN:NE2	1.98	0.60
1:o:317:LYS:NZ	1:o:330:ASN:OD1	2.34	0.60
1:o:444:PHE:HA	1:o:455:PHE:HD1	1.66	0.60
1:p:317:LYS:NZ	1:p:330:ASN:OD1	2.34	0.60
1:q:576:THR:HG23	1:q:592:LEU:HB2	1.82	0.60
1:u:349:VAL:H	1:u:642:GLN:NE2	1.98	0.60
1:w:439:GLN:HA	1:x:354:THR:HA	1.82	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:w:576:THR:HG23	1:w:592:LEU:HB2	1.82	0.60
1:C:317:LYS:NZ	1:C:330:ASN:OD1	2.34	0.60
1:E:576:THR:HG23	1:E:592:LEU:HB2	1.82	0.60
1:H:317:LYS:NZ	1:H:330:ASN:OD1	2.34	0.60
1:I:349:VAL:H	1:I:642:GLN:NE2	1.98	0.60
1:J:317:LYS:NZ	1:J:330:ASN:OD1	2.34	0.60
1:M:317:LYS:NZ	1:M:330:ASN:OD1	2.34	0.60
1:N:576:THR:HG23	1:N:592:LEU:HB2	1.82	0.60
1:T:576:THR:HG23	1:T:592:LEU:HB2	1.82	0.60
1:U:576:THR:HG23	1:U:592:LEU:HB2	1.82	0.60
1:X:317:LYS:NZ	1:X:330:ASN:OD1	2.34	0.60
1:X:444:PHE:HA	1:X:455:PHE:HD1	1.66	0.60
1:d:576:THR:HG23	1:d:592:LEU:HB2	1.82	0.60
1:h:576:THR:HG23	1:h:592:LEU:HB2	1.82	0.60
1:i:576:THR:HG23	1:i:592:LEU:HB2	1.82	0.60
1:n:576:THR:HG23	1:n:592:LEU:HB2	1.82	0.60
1:p:444:PHE:HA	1:p:455:PHE:HD1	1.66	0.60
1:u:576:THR:HG23	1:u:592:LEU:HB2	1.82	0.60
1:z:349:VAL:H	1:z:642:GLN:NE2	1.98	0.60
1:2:317:LYS:NZ	1:2:330:ASN:OD1	2.34	0.60
1:5:317:LYS:NZ	1:5:330:ASN:OD1	2.34	0.60
1:5:497:TRP:O	1:5:502:LYS:NZ	2.17	0.60
1:L:349:VAL:H	1:L:642:GLN:NE2	1.98	0.60
1:S:349:VAL:H	1:S:642:GLN:NE2	1.98	0.60
1:b:349:VAL:H	1:b:642:GLN:NE2	1.98	0.60
1:d:349:VAL:H	1:d:642:GLN:NE2	1.98	0.60
1:g:317:LYS:NZ	1:g:330:ASN:OD1	2.34	0.60
1:g:354:THR:HA	1:h:439:GLN:HA	1.82	0.60
1:h:317:LYS:NZ	1:h:330:ASN:OD1	2.34	0.60
1:j:317:LYS:NZ	1:j:330:ASN:OD1	2.34	0.60
1:s:576:THR:HG23	1:s:592:LEU:HB2	1.82	0.60
1:t:349:VAL:H	1:t:642:GLN:NE2	1.98	0.60
1:x:439:GLN:HA	1:y:354:THR:HA	1.82	0.60
1:F:354:THR:HA	1:Q:439:GLN:HA	1.82	0.60
1:G:317:LYS:NZ	1:G:330:ASN:OD1	2.34	0.60
1:G:349:VAL:H	1:G:642:GLN:NE2	1.98	0.60
1:M:349:VAL:H	1:M:642:GLN:NE2	1.98	0.60
1:P:317:LYS:NZ	1:P:330:ASN:OD1	2.34	0.60
1:V:444:PHE:HA	1:V:455:PHE:HD1	1.66	0.60
1:f:349:VAL:H	1:f:642:GLN:NE2	1.98	0.60
1:i:349:VAL:H	1:i:642:GLN:NE2	1.98	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:r:349:VAL:H	1:r:642:GLN:NE2	1.98	0.60
1:w:444:PHE:HA	1:w:455:PHE:HD1	1.66	0.60
1:y:576:THR:HG23	1:y:592:LEU:HB2	1.82	0.60
1:1:349:VAL:H	1:1:642:GLN:NE2	1.98	0.60
1:4:317:LYS:NZ	1:4:330:ASN:OD1	2.34	0.60
1:8:349:VAL:H	1:8:642:GLN:NE2	1.98	0.60
1:B:349:VAL:H	1:B:642:GLN:NE2	1.98	0.60
1:E:444:PHE:HA	1:E:455:PHE:HD1	1.66	0.60
1:F:444:PHE:HA	1:F:455:PHE:HD1	1.66	0.60
1:J:439:GLN:HA	1:L:354:THR:HA	1.82	0.60
1:J:576:THR:HG23	1:J:592:LEU:HB2	1.82	0.60
1:M:576:THR:HG23	1:M:592:LEU:HB2	1.82	0.60
1:R:444:PHE:HA	1:R:455:PHE:HD1	1.65	0.60
1:q:444:PHE:HA	1:q:455:PHE:HD1	1.66	0.60
1:t:317:LYS:NZ	1:t:330:ASN:OD1	2.34	0.60
1:z:354:THR:HA	1:2:439:GLN:HA	1.82	0.60
1:F:576:THR:HG23	1:F:592:LEU:HB2	1.82	0.60
1:Z:349:VAL:H	1:Z:642:GLN:NE2	1.98	0.60
1:l:576:THR:HG23	1:l:592:LEU:HB2	1.82	0.60
1:z:444:PHE:HA	1:z:455:PHE:HD1	1.66	0.60
1:2:576:THR:HG23	1:2:592:LEU:HB2	1.82	0.60
1:3:317:LYS:NZ	1:3:330:ASN:OD1	2.34	0.60
1:8:284:HIS:HD2	1:8:360:PRO:CB	2.15	0.60
1:B:354:THR:HA	1:L:439:GLN:HA	1.82	0.60
1:L:444:PHE:HA	1:L:455:PHE:HD1	1.66	0.60
1:N:349:VAL:H	1:N:642:GLN:NE2	1.98	0.60
1:O:576:THR:HG23	1:O:592:LEU:HB2	1.82	0.60
1:Z:284:HIS:HD2	1:Z:360:PRO:CB	2.15	0.60
1:a:317:LYS:NZ	1:a:330:ASN:OD1	2.34	0.60
1:j:602:VAL:HG12	1:k:624:LYS:HG2	1.82	0.60
1:y:444:PHE:HA	1:y:455:PHE:HD1	1.66	0.60
1:2:349:VAL:H	1:2:642:GLN:NE2	1.98	0.60
1:J:349:VAL:H	1:J:642:GLN:NE2	1.98	0.60
1:K:317:LYS:NZ	1:K:330:ASN:OD1	2.34	0.60
1:Q:576:THR:HG23	1:Q:592:LEU:HB2	1.82	0.60
1:W:349:VAL:H	1:W:642:GLN:NE2	1.98	0.60
1:c:444:PHE:HA	1:c:455:PHE:HD1	1.66	0.60
1:d:317:LYS:NZ	1:d:330:ASN:OD1	2.34	0.60
1:o:576:THR:HG23	1:o:592:LEU:HB2	1.82	0.60
1:w:317:LYS:NZ	1:w:330:ASN:OD1	2.34	0.60
1:x:576:THR:HG23	1:x:592:LEU:HB2	1.82	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:317:LYS:NZ	1:E:330:ASN:OD1	2.34	0.60
1:E:354:THR:HA	1:F:439:GLN:HA	1.82	0.60
1:J:444:PHE:HA	1:J:455:PHE:HD1	1.66	0.60
1:M:354:THR:HA	1:b:439:GLN:HA	1.82	0.60
1:X:576:THR:HG23	1:X:592:LEU:HB2	1.82	0.60
1:e:444:PHE:HA	1:e:455:PHE:HD1	1.66	0.60
1:f:439:GLN:HA	1:h:354:THR:HA	1.82	0.60
1:i:317:LYS:NZ	1:i:330:ASN:OD1	2.34	0.60
1:z:439:GLN:HA	1:1:354:THR:HA	1.82	0.60
1:1:317:LYS:NZ	1:1:330:ASN:OD1	2.34	0.60
1:2:444:PHE:HA	1:2:455:PHE:HD1	1.66	0.60
1:6:349:VAL:H	1:6:642:GLN:NE2	1.98	0.60
1:C:349:VAL:H	1:C:642:GLN:NE2	1.98	0.60
1:I:317:LYS:NZ	1:I:330:ASN:OD1	2.34	0.60
1:c:576:THR:HG23	1:c:592:LEU:HB2	1.82	0.60
1:f:354:THR:HA	1:g:439:GLN:HA	1.82	0.60
1:h:282:ARG:NE	1:h:284:HIS:HE1	2.00	0.60
1:n:317:LYS:NZ	1:n:330:ASN:OD1	2.34	0.60
1:s:284:HIS:HD2	1:s:360:PRO:CB	2.15	0.60
1:w:354:THR:HA	1:y:439:GLN:HA	1.82	0.60
1:6:444:PHE:HA	1:6:455:PHE:HD1	1.66	0.60
1:B:317:LYS:NZ	1:B:330:ASN:OD1	2.34	0.59
1:M:282:ARG:NE	1:M:284:HIS:HE1	2.00	0.59
1:N:282:ARG:NE	1:N:284:HIS:HE1	2.00	0.59
1:N:317:LYS:NZ	1:N:330:ASN:OD1	2.34	0.59
1:O:282:ARG:NE	1:O:284:HIS:HE1	2.00	0.59
1:W:444:PHE:HA	1:W:455:PHE:HD1	1.66	0.59
1:e:576:THR:HG23	1:e:592:LEU:HB2	1.82	0.59
1:g:349:VAL:H	1:g:642:GLN:NE2	1.98	0.59
1:i:282:ARG:NE	1:i:284:HIS:HE1	2.00	0.59
1:j:444:PHE:HA	1:j:455:PHE:HD1	1.66	0.59
1:l:282:ARG:NE	1:l:284:HIS:HE1	2.00	0.59
1:q:282:ARG:NE	1:q:284:HIS:HE1	2.00	0.59
1:7:317:LYS:NZ	1:7:330:ASN:OD1	2.34	0.59
1:C:439:GLN:HA	1:b:354:THR:HA	1.83	0.59
1:C:444:PHE:HA	1:C:455:PHE:HD1	1.66	0.59
1:K:284:HIS:HD2	1:K:360:PRO:CB	2.15	0.59
1:O:284:HIS:HD2	1:O:360:PRO:CB	2.15	0.59
1:W:317:LYS:NZ	1:W:330:ASN:OD1	2.34	0.59
1:Y:317:LYS:NZ	1:Y:330:ASN:OD1	2.34	0.59
1:z:282:ARG:NE	1:z:284:HIS:HE1	2.00	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:4:284:HIS:HD2	1:4:360:PRO:CB	2.15	0.59
1:6:317:LYS:NZ	1:6:330:ASN:OD1	2.34	0.59
1:F:317:LYS:NZ	1:F:330:ASN:OD1	2.34	0.59
1:L:282:ARG:NE	1:L:284:HIS:HE1	2.00	0.59
1:P:444:PHE:HA	1:P:455:PHE:HD1	1.66	0.59
1:P:576:THR:HG23	1:P:592:LEU:HB2	1.82	0.59
1:R:282:ARG:NE	1:R:284:HIS:HE1	2.00	0.59
1:Y:349:VAL:H	1:Y:642:GLN:NE2	1.98	0.59
1:c:317:LYS:NZ	1:c:330:ASN:OD1	2.34	0.59
1:e:317:LYS:NZ	1:e:330:ASN:OD1	2.34	0.59
1:g:444:PHE:HA	1:g:455:PHE:HD1	1.66	0.59
1:j:576:THR:HG23	1:j:592:LEU:HB2	1.82	0.59
1:7:349:VAL:H	1:7:642:GLN:NE2	1.98	0.59
1:8:317:LYS:NZ	1:8:330:ASN:OD1	2.34	0.59
1:A:317:LYS:NZ	1:A:330:ASN:OD1	2.34	0.59
1:D:284:HIS:HD2	1:D:360:PRO:CB	2.15	0.59
1:E:282:ARG:NE	1:E:284:HIS:HE1	2.00	0.59
1:Z:317:LYS:NZ	1:Z:330:ASN:OD1	2.34	0.59
1:l:284:HIS:HD2	1:l:360:PRO:CB	2.15	0.59
1:v:317:LYS:NZ	1:v:330:ASN:OD1	2.34	0.59
1:w:282:ARG:NE	1:w:284:HIS:HE1	2.00	0.59
1:D:282:ARG:NE	1:D:284:HIS:HE1	2.00	0.59
1:T:284:HIS:HD2	1:T:360:PRO:CB	2.15	0.59
1:V:354:THR:HA	1:X:439:GLN:HA	1.82	0.59
1:Y:282:ARG:NE	1:Y:284:HIS:HE1	2.00	0.59
1:j:282:ARG:NE	1:j:284:HIS:HE1	2.00	0.59
1:k:282:ARG:NE	1:k:284:HIS:HE1	2.00	0.59
1:k:284:HIS:HD2	1:k:360:PRO:CB	2.15	0.59
1:k:444:PHE:HA	1:k:455:PHE:HD1	1.66	0.59
1:t:284:HIS:HD2	1:t:360:PRO:CB	2.15	0.59
1:y:317:LYS:NZ	1:y:330:ASN:OD1	2.34	0.59
1:3:284:HIS:HD2	1:3:360:PRO:CB	2.15	0.59
1:G:284:HIS:HD2	1:G:360:PRO:CB	2.15	0.59
1:J:282:ARG:NE	1:J:284:HIS:HE1	2.00	0.59
1:m:284:HIS:HD2	1:m:360:PRO:CB	2.15	0.59
1:t:282:ARG:NE	1:t:284:HIS:HE1	2.00	0.59
1:7:282:ARG:NE	1:7:284:HIS:HE1	2.00	0.59
1:D:444:PHE:HA	1:D:455:PHE:HD1	1.66	0.59
1:J:708:MET:HE1	1:J:720:ASP:H	1.68	0.59
1:P:282:ARG:NE	1:P:284:HIS:HE1	2.00	0.59
1:a:284:HIS:HD2	1:a:360:PRO:CB	2.15	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:d:282:ARG:NE	1:d:284:HIS:HE1	2.00	0.59
1:p:576:THR:HG23	1:p:592:LEU:HB2	1.82	0.59
1:s:282:ARG:NE	1:s:284:HIS:HE1	2.00	0.59
1:2:282:ARG:NE	1:2:284:HIS:HE1	2.00	0.59
1:G:282:ARG:NE	1:G:284:HIS:HE1	2.00	0.59
1:I:282:ARG:NE	1:I:284:HIS:HE1	2.00	0.59
1:J:284:HIS:HD2	1:J:360:PRO:CB	2.15	0.59
1:Q:282:ARG:NE	1:Q:284:HIS:HE1	2.00	0.59
1:S:282:ARG:NE	1:S:284:HIS:HE1	2.00	0.59
1:U:282:ARG:NE	1:U:284:HIS:HE1	2.00	0.59
1:V:576:THR:HG23	1:V:592:LEU:HB2	1.82	0.59
1:k:317:LYS:NZ	1:k:330:ASN:OD1	2.34	0.59
1:l:708:MET:HE1	1:l:720:ASP:H	1.68	0.59
1:n:282:ARG:NE	1:n:284:HIS:HE1	2.00	0.59
1:o:439:GLN:HA	1:p:354:THR:HA	1.82	0.59
1:p:282:ARG:NE	1:p:284:HIS:HE1	2.00	0.59
1:r:282:ARG:NE	1:r:284:HIS:HE1	2.00	0.59
1:u:282:ARG:NE	1:u:284:HIS:HE1	2.00	0.59
1:x:282:ARG:NE	1:x:284:HIS:HE1	2.00	0.59
1:2:708:MET:HE1	1:2:720:ASP:H	1.68	0.59
1:B:284:HIS:HD2	1:B:360:PRO:CB	2.15	0.59
1:I:284:HIS:HD2	1:I:360:PRO:CB	2.15	0.59
1:K:282:ARG:NE	1:K:284:HIS:HE1	2.00	0.59
1:U:317:LYS:NZ	1:U:330:ASN:OD1	2.34	0.59
1:b:576:THR:HG23	1:b:592:LEU:HB2	1.82	0.59
1:f:576:THR:HG23	1:f:592:LEU:HB2	1.82	0.59
1:s:317:LYS:NZ	1:s:330:ASN:OD1	2.34	0.59
1:u:284:HIS:HD2	1:u:360:PRO:CB	2.15	0.59
1:y:708:MET:HE1	1:y:720:ASP:H	1.68	0.59
1:2:284:HIS:HD2	1:2:360:PRO:CB	2.15	0.59
1:4:282:ARG:NE	1:4:284:HIS:HE1	2.00	0.59
1:D:317:LYS:NZ	1:D:330:ASN:OD1	2.34	0.59
1:F:708:MET:HE1	1:F:720:ASP:H	1.68	0.59
1:P:708:MET:HE1	1:P:720:ASP:H	1.68	0.59
1:W:282:ARG:NE	1:W:284:HIS:HE1	2.00	0.59
1:a:282:ARG:NE	1:a:284:HIS:HE1	2.00	0.59
1:j:708:MET:HE1	1:j:720:ASP:H	1.68	0.59
1:s:708:MET:HE1	1:s:720:ASP:H	1.68	0.59
1:1:282:ARG:NE	1:1:284:HIS:HE1	2.00	0.59
1:1:284:HIS:HD2	1:1:360:PRO:CB	2.15	0.59
1:3:282:ARG:NE	1:3:284:HIS:HE1	2.00	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:5:282:ARG:NE	1:5:284:HIS:HE1	2.00	0.59
1:6:282:ARG:NE	1:6:284:HIS:HE1	2.00	0.59
1:A:284:HIS:HD2	1:A:360:PRO:CB	2.15	0.58
1:B:282:ARG:NE	1:B:284:HIS:HE1	2.00	0.58
1:H:282:ARG:NE	1:H:284:HIS:HE1	2.00	0.58
1:L:284:HIS:HD2	1:L:360:PRO:CB	2.15	0.58
1:M:284:HIS:HD2	1:M:360:PRO:CB	2.15	0.58
1:O:708:MET:HE1	1:O:720:ASP:H	1.68	0.58
1:R:284:HIS:HD2	1:R:360:PRO:CB	2.15	0.58
1:U:708:MET:HE1	1:U:720:ASP:H	1.68	0.58
1:V:282:ARG:NE	1:V:284:HIS:HE1	2.00	0.58
1:Z:282:ARG:NE	1:Z:284:HIS:HE1	2.00	0.58
1:F:282:ARG:NE	1:F:284:HIS:HE1	2.00	0.58
1:T:282:ARG:NE	1:T:284:HIS:HE1	2.00	0.58
1:Y:284:HIS:HD2	1:Y:360:PRO:CB	2.15	0.58
1:d:708:MET:HE1	1:d:720:ASP:H	1.68	0.58
1:e:282:ARG:NE	1:e:284:HIS:HE1	2.00	0.58
1:h:284:HIS:HD2	1:h:360:PRO:CB	2.15	0.58
1:m:282:ARG:NE	1:m:284:HIS:HE1	2.00	0.58
1:n:708:MET:HE1	1:n:720:ASP:H	1.68	0.58
1:q:284:HIS:HD2	1:q:360:PRO:CB	2.15	0.58
1:y:282:ARG:NE	1:y:284:HIS:HE1	2.00	0.58
1:z:284:HIS:HD2	1:z:360:PRO:CB	2.15	0.58
1:E:284:HIS:HD2	1:E:360:PRO:CB	2.15	0.58
1:P:284:HIS:HD2	1:P:360:PRO:CB	2.15	0.58
1:V:708:MET:HE1	1:V:720:ASP:H	1.68	0.58
1:e:708:MET:HE1	1:e:720:ASP:H	1.68	0.58
1:f:284:HIS:HD2	1:f:360:PRO:CB	2.15	0.58
1:g:708:MET:HE1	1:g:720:ASP:H	1.68	0.58
1:v:284:HIS:HD2	1:v:360:PRO:CB	2.15	0.58
1:1:708:MET:HE1	1:1:720:ASP:H	1.68	0.58
1:8:282:ARG:NE	1:8:284:HIS:HE1	2.00	0.58
1:B:708:MET:HE1	1:B:720:ASP:H	1.68	0.58
1:C:284:HIS:HD2	1:C:360:PRO:CB	2.15	0.58
1:C:708:MET:HE1	1:C:720:ASP:H	1.68	0.58
1:G:708:MET:HE1	1:G:720:ASP:H	1.68	0.58
1:c:282:ARG:NE	1:c:284:HIS:HE1	2.00	0.58
1:o:282:ARG:NE	1:o:284:HIS:HE1	2.00	0.58
1:p:708:MET:HE1	1:p:720:ASP:H	1.68	0.58
1:v:282:ARG:NE	1:v:284:HIS:HE1	2.00	0.58
1:7:284:HIS:HD2	1:7:360:PRO:CB	2.15	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:282:ARG:NE	1:A:284:HIS:HE1	2.00	0.58
1:C:282:ARG:NE	1:C:284:HIS:HE1	2.00	0.58
1:H:708:MET:HE1	1:H:720:ASP:H	1.68	0.58
1:b:284:HIS:HD2	1:b:360:PRO:CB	2.15	0.58
1:c:708:MET:HE1	1:c:720:ASP:H	1.68	0.58
1:w:284:HIS:HD2	1:w:360:PRO:CB	2.15	0.58
1:3:708:MET:HE1	1:3:720:ASP:H	1.68	0.58
1:5:708:MET:HE1	1:5:720:ASP:H	1.68	0.58
1:S:708:MET:HE1	1:S:720:ASP:H	1.68	0.58
1:X:282:ARG:NE	1:X:284:HIS:HE1	2.00	0.58
1:a:708:MET:HE1	1:a:720:ASP:H	1.68	0.58
1:g:282:ARG:NE	1:g:284:HIS:HE1	2.00	0.58
1:g:284:HIS:HD2	1:g:360:PRO:CB	2.15	0.58
1:j:284:HIS:HD2	1:j:360:PRO:CB	2.15	0.58
1:H:284:HIS:HD2	1:H:360:PRO:CB	2.15	0.58
1:b:282:ARG:NE	1:b:284:HIS:HE1	2.00	0.58
1:m:708:MET:HE1	1:m:720:ASP:H	1.68	0.58
1:o:284:HIS:HD2	1:o:360:PRO:CB	2.15	0.58
1:r:708:MET:HE1	1:r:720:ASP:H	1.68	0.58
1:t:708:MET:HE1	1:t:720:ASP:H	1.68	0.58
1:A:708:MET:HE1	1:A:720:ASP:H	1.68	0.58
1:D:708:MET:HE1	1:D:720:ASP:H	1.68	0.58
1:X:284:HIS:HD2	1:X:360:PRO:CB	2.15	0.58
1:f:282:ARG:NE	1:f:284:HIS:HE1	2.00	0.58
1:k:708:MET:HE1	1:k:720:ASP:H	1.68	0.58
1:v:708:MET:HE1	1:v:720:ASP:H	1.68	0.58
1:T:708:MET:HE1	1:T:720:ASP:H	1.68	0.58
1:z:708:MET:HE1	1:z:720:ASP:H	1.68	0.58
1:5:284:HIS:HD2	1:5:360:PRO:CB	2.15	0.58
1:b:708:MET:HE1	1:b:720:ASP:H	1.68	0.57
1:h:708:MET:HE1	1:h:720:ASP:H	1.68	0.57
1:7:708:MET:HE1	1:7:720:ASP:H	1.68	0.57
1:E:708:MET:HE1	1:E:720:ASP:H	1.68	0.57
1:L:708:MET:HE1	1:L:720:ASP:H	1.68	0.57
1:f:708:MET:HE1	1:f:720:ASP:H	1.68	0.57
1:Y:708:MET:HE1	1:Y:720:ASP:H	1.68	0.57
1:d:284:HIS:HD2	1:d:360:PRO:CB	2.15	0.57
1:n:284:HIS:HD2	1:n:360:PRO:CB	2.15	0.57
1:o:378:THR:HG23	1:o:386:ASN:HD22	1.70	0.57
1:p:284:HIS:HD2	1:p:360:PRO:CB	2.15	0.57
1:M:708:MET:HE1	1:M:720:ASP:H	1.68	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:708:MET:HE1	1:N:720:ASP:H	1.68	0.57
1:S:378:THR:HG23	1:S:386:ASN:HD22	1.70	0.57
1:V:284:HIS:HD2	1:V:360:PRO:CB	2.15	0.57
1:X:378:THR:HG23	1:X:386:ASN:HD22	1.70	0.57
1:i:708:MET:HE1	1:i:720:ASP:H	1.68	0.57
1:p:378:THR:HG23	1:p:386:ASN:HD22	1.70	0.57
1:w:708:MET:HE1	1:w:720:ASP:H	1.68	0.57
1:K:708:MET:HE1	1:K:720:ASP:H	1.68	0.57
1:Q:284:HIS:HD2	1:Q:360:PRO:CB	2.15	0.57
1:Q:378:THR:HG23	1:Q:386:ASN:HD22	1.70	0.57
1:Z:708:MET:HE1	1:Z:720:ASP:H	1.68	0.57
1:x:378:THR:HG23	1:x:386:ASN:HD22	1.70	0.57
1:l:378:THR:HG23	1:l:386:ASN:HD22	1.70	0.57
1:4:708:MET:HE1	1:4:720:ASP:H	1.68	0.57
1:6:708:MET:HE1	1:6:720:ASP:H	1.68	0.57
1:7:378:THR:HG23	1:7:386:ASN:HD22	1.70	0.57
1:B:378:THR:HG23	1:B:386:ASN:HD22	1.70	0.57
1:E:378:THR:HG23	1:E:386:ASN:HD22	1.70	0.57
1:J:378:THR:HG23	1:J:386:ASN:HD22	1.70	0.57
1:U:378:THR:HG23	1:U:386:ASN:HD22	1.70	0.57
1:V:378:THR:HG23	1:V:386:ASN:HD22	1.70	0.57
1:Y:378:THR:HG23	1:Y:386:ASN:HD22	1.70	0.57
1:j:378:THR:HG23	1:j:386:ASN:HD22	1.70	0.57
1:r:284:HIS:HD2	1:r:360:PRO:CB	2.15	0.57
1:r:378:THR:HG23	1:r:386:ASN:HD22	1.70	0.57
1:8:708:MET:HE1	1:8:720:ASP:H	1.68	0.57
1:I:378:THR:HG23	1:I:386:ASN:HD22	1.70	0.57
1:P:378:THR:HG23	1:P:386:ASN:HD22	1.70	0.57
1:Z:378:THR:HG23	1:Z:386:ASN:HD22	1.70	0.57
1:w:378:THR:HG23	1:w:386:ASN:HD22	1.70	0.57
1:x:708:MET:HE1	1:x:720:ASP:H	1.68	0.57
1:S:284:HIS:HD2	1:S:360:PRO:CB	2.15	0.57
1:X:708:MET:HE1	1:X:720:ASP:H	1.68	0.57
1:s:378:THR:HG23	1:s:386:ASN:HD22	1.70	0.57
1:u:378:THR:HG23	1:u:386:ASN:HD22	1.70	0.57
1:y:378:THR:HG23	1:y:386:ASN:HD22	1.70	0.57
1:2:378:THR:HG23	1:2:386:ASN:HD22	1.70	0.57
1:5:479:GLN:HE22	1:7:581:GLN:H	1.53	0.57
1:8:378:THR:HG23	1:8:386:ASN:HD22	1.70	0.57
1:F:378:THR:HG23	1:F:386:ASN:HD22	1.70	0.57
1:Q:708:MET:HE1	1:Q:720:ASP:H	1.68	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:W:378:THR:HG23	1:W:386:ASN:HD22	1.70	0.57
1:W:708:MET:HE1	1:W:720:ASP:H	1.68	0.57
1:o:708:MET:HE1	1:o:720:ASP:H	1.68	0.57
1:x:284:HIS:HD2	1:x:360:PRO:CB	2.15	0.57
1:6:378:THR:HG23	1:6:386:ASN:HD22	1.70	0.57
1:D:378:THR:HG23	1:D:386:ASN:HD22	1.70	0.57
1:b:378:THR:HG23	1:b:386:ASN:HD22	1.70	0.57
1:k:378:THR:HG23	1:k:386:ASN:HD22	1.70	0.56
1:q:378:THR:HG23	1:q:386:ASN:HD22	1.70	0.56
1:u:708:MET:HE1	1:u:720:ASP:H	1.68	0.56
1:G:378:THR:HG23	1:G:386:ASN:HD22	1.70	0.56
1:K:378:THR:HG23	1:K:386:ASN:HD22	1.70	0.56
1:R:378:THR:HG23	1:R:386:ASN:HD22	1.70	0.56
1:R:708:MET:HE1	1:R:720:ASP:H	1.68	0.56
1:f:378:THR:HG23	1:f:386:ASN:HD22	1.70	0.56
1:I:708:MET:HE1	1:I:720:ASP:H	1.68	0.56
1:M:378:THR:HG23	1:M:386:ASN:HD22	1.70	0.56
1:N:284:HIS:HD2	1:N:360:PRO:CB	2.15	0.56
1:h:378:THR:HG23	1:h:386:ASN:HD22	1.70	0.56
1:q:708:MET:HE1	1:q:720:ASP:H	1.68	0.56
1:t:378:THR:HG23	1:t:386:ASN:HD22	1.70	0.56
1:x:581:GLN:H	1:y:479:GLN:HE22	1.54	0.56
1:4:378:THR:HG23	1:4:386:ASN:HD22	1.70	0.56
1:F:284:HIS:HD2	1:F:360:PRO:CB	2.15	0.56
1:F:479:GLN:HE22	1:Q:581:GLN:H	1.54	0.56
1:y:284:HIS:HD2	1:y:360:PRO:CB	2.15	0.56
1:3:378:THR:HG23	1:3:386:ASN:HD22	1.70	0.56
1:H:378:THR:HG23	1:H:386:ASN:HD22	1.70	0.56
1:a:378:THR:HG23	1:a:386:ASN:HD22	1.70	0.56
1:v:378:THR:HG23	1:v:386:ASN:HD22	1.70	0.56
1:5:378:THR:HG23	1:5:386:ASN:HD22	1.70	0.56
1:A:378:THR:HG23	1:A:386:ASN:HD22	1.70	0.56
1:T:378:THR:HG23	1:T:386:ASN:HD22	1.70	0.56
1:V:480:ARG:HB3	1:V:570:TRP:CG	2.41	0.56
1:i:284:HIS:HD2	1:i:360:PRO:CB	2.15	0.56
1:A:480:ARG:HB3	1:A:570:TRP:CG	2.41	0.56
1:I:480:ARG:HB3	1:I:570:TRP:CG	2.41	0.56
1:L:480:ARG:HB3	1:L:570:TRP:CG	2.41	0.56
1:O:480:ARG:HB3	1:O:570:TRP:CG	2.41	0.56
1:P:480:ARG:HB3	1:P:570:TRP:CG	2.41	0.56
1:e:718:VAL:HG12	1:e:720:ASP:OD2	2.06	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:l:480:ARG:HB3	1:l:570:TRP:CG	2.41	0.56
1:p:480:ARG:HB3	1:p:570:TRP:CG	2.41	0.56
1:v:480:ARG:HB3	1:v:570:TRP:CG	2.41	0.56
1:x:480:ARG:HB3	1:x:570:TRP:CG	2.41	0.56
1:B:480:ARG:HB3	1:B:570:TRP:CG	2.41	0.56
1:C:718:VAL:HG12	1:C:720:ASP:OD2	2.06	0.56
1:Q:480:ARG:HB3	1:Q:570:TRP:CG	2.41	0.56
1:c:718:VAL:HG12	1:c:720:ASP:OD2	2.06	0.56
1:g:718:VAL:HG12	1:g:720:ASP:OD2	2.06	0.56
1:i:378:THR:HG23	1:i:386:ASN:HD22	1.70	0.56
1:j:480:ARG:HB3	1:j:570:TRP:CG	2.41	0.56
1:m:378:THR:HG23	1:m:386:ASN:HD22	1.70	0.56
1:u:480:ARG:HB3	1:u:570:TRP:CG	2.41	0.56
1:z:480:ARG:HB3	1:z:570:TRP:CG	2.41	0.56
1:1:480:ARG:HB3	1:1:570:TRP:CG	2.41	0.56
1:B:718:VAL:HG12	1:B:720:ASP:OD2	2.06	0.56
1:J:231:MET:H	1:J:231:MET:HE2	1.71	0.56
1:J:480:ARG:HB3	1:J:570:TRP:CG	2.41	0.56
1:O:231:MET:H	1:O:231:MET:HE2	1.71	0.56
1:W:480:ARG:HB3	1:W:570:TRP:CG	2.41	0.56
1:X:480:ARG:HB3	1:X:570:TRP:CG	2.41	0.56
1:Z:480:ARG:HB3	1:Z:570:TRP:CG	2.41	0.56
1:m:480:ARG:HB3	1:m:570:TRP:CG	2.41	0.56
1:n:378:THR:HG23	1:n:386:ASN:HD22	1.70	0.56
1:q:231:MET:HE2	1:q:231:MET:H	1.71	0.56
1:u:231:MET:H	1:u:231:MET:HE2	1.71	0.56
1:1:718:VAL:HG12	1:1:720:ASP:OD2	2.06	0.56
1:2:480:ARG:HB3	1:2:570:TRP:CG	2.41	0.56
1:8:480:ARG:HB3	1:8:570:TRP:CG	2.41	0.56
1:A:479:GLN:HE22	1:I:581:GLN:H	1.54	0.56
1:I:231:MET:H	1:I:231:MET:HE2	1.71	0.56
1:K:718:VAL:HG12	1:K:720:ASP:OD2	2.06	0.56
1:N:378:THR:HG23	1:N:386:ASN:HD22	1.70	0.56
1:T:480:ARG:HB3	1:T:570:TRP:CG	2.41	0.56
1:U:284:HIS:HD2	1:U:360:PRO:CB	2.15	0.56
1:V:231:MET:HE2	1:V:231:MET:H	1.71	0.56
1:Z:231:MET:H	1:Z:231:MET:HE2	1.71	0.56
1:c:378:THR:HG23	1:c:386:ASN:HD22	1.70	0.56
1:o:480:ARG:HB3	1:o:570:TRP:CG	2.41	0.56
1:r:480:ARG:HB3	1:r:570:TRP:CG	2.41	0.56
1:w:581:GLN:H	1:x:479:GLN:HE22	1.54	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:w:718:VAL:HG12	1:w:720:ASP:OD2	2.06	0.56
1:z:378:THR:HG23	1:z:386:ASN:HD22	1.70	0.56
1:C:378:THR:HG23	1:C:386:ASN:HD22	1.70	0.55
1:E:718:VAL:HG12	1:E:720:ASP:OD2	2.06	0.55
1:K:581:GLN:H	1:a:479:GLN:HE22	1.55	0.55
1:L:378:THR:HG23	1:L:386:ASN:HD22	1.70	0.55
1:M:718:VAL:HG12	1:M:720:ASP:OD2	2.06	0.55
1:R:231:MET:H	1:R:231:MET:HE2	1.71	0.55
1:R:479:GLN:HE22	1:U:581:GLN:H	1.54	0.55
1:R:480:ARG:HB3	1:R:570:TRP:CG	2.41	0.55
1:S:480:ARG:HB3	1:S:570:TRP:CG	2.41	0.55
1:T:718:VAL:HG12	1:T:720:ASP:OD2	2.06	0.55
1:a:480:ARG:HB3	1:a:570:TRP:CG	2.41	0.55
1:e:231:MET:H	1:e:231:MET:HE2	1.71	0.55
1:e:378:THR:HG23	1:e:386:ASN:HD22	1.70	0.55
1:h:718:VAL:HG12	1:h:720:ASP:OD2	2.06	0.55
1:l:231:MET:H	1:l:231:MET:HE2	1.71	0.55
1:m:718:VAL:HG12	1:m:720:ASP:OD2	2.06	0.55
1:p:231:MET:H	1:p:231:MET:HE2	1.71	0.55
1:q:479:GLN:HE22	1:s:581:GLN:H	1.54	0.55
1:q:480:ARG:HB3	1:q:570:TRP:CG	2.41	0.55
1:u:581:GLN:H	1:v:479:GLN:HE22	1.54	0.55
1:6:480:ARG:HB3	1:6:570:TRP:CG	2.41	0.55
1:8:231:MET:HE2	1:8:231:MET:H	1.72	0.55
1:M:231:MET:H	1:M:231:MET:HE2	1.71	0.55
1:N:718:VAL:HG12	1:N:720:ASP:OD2	2.06	0.55
1:S:231:MET:HE2	1:S:231:MET:H	1.71	0.55
1:c:231:MET:HE2	1:c:231:MET:H	1.71	0.55
1:d:378:THR:HG23	1:d:386:ASN:HD22	1.70	0.55
1:h:231:MET:H	1:h:231:MET:HE2	1.71	0.55
1:i:718:VAL:HG12	1:i:720:ASP:OD2	2.06	0.55
1:r:231:MET:H	1:r:231:MET:HE2	1.71	0.55
1:2:231:MET:H	1:2:231:MET:HE2	1.72	0.55
1:3:479:GLN:HE22	1:4:581:GLN:H	1.55	0.55
1:4:718:VAL:HG12	1:4:720:ASP:OD2	2.06	0.55
1:B:479:GLN:HE22	1:L:581:GLN:H	1.54	0.55
1:D:480:ARG:HB3	1:D:570:TRP:CG	2.41	0.55
1:E:581:GLN:H	1:Q:479:GLN:HE22	1.55	0.55
1:H:480:ARG:HB3	1:H:570:TRP:CG	2.41	0.55
1:S:718:VAL:HG12	1:S:720:ASP:OD2	2.06	0.55
1:T:581:GLN:H	1:d:479:GLN:HE22	1.55	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:W:231:MET:H	1:W:231:MET:HE2	1.71	0.55
1:Z:718:VAL:HG12	1:Z:720:ASP:OD2	2.06	0.55
1:g:231:MET:H	1:g:231:MET:HE2	1.71	0.55
1:k:231:MET:H	1:k:231:MET:HE2	1.71	0.55
1:k:480:ARG:HB3	1:k:570:TRP:CG	2.41	0.55
1:m:581:GLN:H	1:n:479:GLN:HE22	1.54	0.55
1:r:718:VAL:HG12	1:r:720:ASP:OD2	2.06	0.55
1:6:231:MET:HE2	1:6:231:MET:H	1.71	0.55
1:8:718:VAL:HG12	1:8:720:ASP:OD2	2.06	0.55
1:B:581:GLN:H	1:J:479:GLN:HE22	1.55	0.55
1:E:480:ARG:HB3	1:E:570:TRP:CG	2.41	0.55
1:F:231:MET:HE2	1:F:231:MET:H	1.71	0.55
1:K:480:ARG:HB3	1:K:570:TRP:CG	2.41	0.55
1:M:480:ARG:HB3	1:M:570:TRP:CG	2.41	0.55
1:N:480:ARG:HB3	1:N:570:TRP:CG	2.41	0.55
1:Q:231:MET:HE2	1:Q:231:MET:H	1.71	0.55
1:W:284:HIS:HD2	1:W:360:PRO:CB	2.15	0.55
1:a:581:GLN:H	1:8:479:GLN:HE22	1.55	0.55
1:b:231:MET:H	1:b:231:MET:HE2	1.71	0.55
1:c:480:ARG:HB3	1:c:570:TRP:CG	2.41	0.55
1:e:480:ARG:HB3	1:e:570:TRP:CG	2.41	0.55
1:f:480:ARG:HB3	1:f:570:TRP:CG	2.41	0.55
1:g:378:THR:HG23	1:g:386:ASN:HD22	1.70	0.55
1:z:581:GLN:H	1:1:479:GLN:HE22	1.54	0.55
1:1:581:GLN:H	1:2:479:GLN:HE22	1.55	0.55
1:3:480:ARG:HB3	1:3:570:TRP:CG	2.41	0.55
1:4:480:ARG:HB3	1:4:570:TRP:CG	2.41	0.55
1:C:231:MET:HE2	1:C:231:MET:H	1.71	0.55
1:D:231:MET:H	1:D:231:MET:HE2	1.72	0.55
1:P:231:MET:H	1:P:231:MET:HE2	1.71	0.55
1:R:581:GLN:H	1:S:479:GLN:HE22	1.55	0.55
1:Z:479:GLN:HE22	1:3:581:GLN:H	1.55	0.55
1:b:480:ARG:HB3	1:b:570:TRP:CG	2.41	0.55
1:c:284:HIS:HD2	1:c:360:PRO:CB	2.15	0.55
1:h:480:ARG:HB3	1:h:570:TRP:CG	2.41	0.55
1:i:480:ARG:HB3	1:i:570:TRP:CG	2.41	0.55
1:x:231:MET:H	1:x:231:MET:HE2	1.71	0.55
1:5:480:ARG:HB3	1:5:570:TRP:CG	2.41	0.55
1:5:581:GLN:H	1:6:479:GLN:HE22	1.55	0.55
1:G:480:ARG:HB3	1:G:570:TRP:CG	2.41	0.55
1:H:479:GLN:HE22	1:Y:581:GLN:H	1.54	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:e:284:HIS:HD2	1:e:360:PRO:CB	2.15	0.55
1:o:231:MET:H	1:o:231:MET:HE2	1.71	0.55
1:q:581:GLN:H	1:r:479:GLN:HE22	1.55	0.55
1:t:480:ARG:HB3	1:t:570:TRP:CG	2.41	0.55
1:w:480:ARG:HB3	1:w:570:TRP:CG	2.41	0.55
1:y:231:MET:HE2	1:y:231:MET:H	1.71	0.55
1:5:231:MET:H	1:5:231:MET:HE2	1.71	0.55
1:6:284:HIS:HD2	1:6:360:PRO:CB	2.15	0.55
1:B:231:MET:H	1:B:231:MET:HE2	1.71	0.55
1:G:718:VAL:HG12	1:G:720:ASP:OD2	2.06	0.55
1:S:581:GLN:H	1:U:479:GLN:HE22	1.54	0.55
1:a:231:MET:HE2	1:a:231:MET:H	1.71	0.55
1:f:231:MET:HE2	1:f:231:MET:H	1.71	0.55
1:j:231:MET:H	1:j:231:MET:HE2	1.71	0.55
1:r:581:GLN:H	1:s:479:GLN:HE22	1.54	0.55
1:3:231:MET:HE2	1:3:231:MET:H	1.71	0.55
1:6:581:GLN:H	1:7:479:GLN:HE22	1.54	0.55
1:C:231:MET:HE2	1:C:231:MET:N	2.22	0.55
1:C:480:ARG:HB3	1:C:570:TRP:CG	2.41	0.55
1:H:231:MET:H	1:H:231:MET:HE2	1.71	0.55
1:H:581:GLN:H	1:W:479:GLN:HE22	1.55	0.55
1:J:231:MET:HE2	1:J:231:MET:N	2.22	0.55
1:X:231:MET:H	1:X:231:MET:HE2	1.71	0.55
1:g:231:MET:HE2	1:g:231:MET:N	2.22	0.55
1:g:480:ARG:HB3	1:g:570:TRP:CG	2.41	0.55
1:l:378:THR:HG23	1:l:386:ASN:HD22	1.70	0.55
1:t:718:VAL:HG12	1:t:720:ASP:OD2	2.06	0.55
1:u:231:MET:HE2	1:u:231:MET:N	2.22	0.55
1:1:231:MET:H	1:1:231:MET:HE2	1.71	0.55
1:1:559:GLU:OE2	1:1:609:TYR:OH	2.24	0.55
1:7:480:ARG:HB3	1:7:570:TRP:CG	2.41	0.55
1:A:581:GLN:H	1:G:479:GLN:HE22	1.54	0.55
1:B:559:GLU:OE2	1:B:609:TYR:OH	2.24	0.55
1:I:231:MET:HE2	1:I:231:MET:N	2.22	0.55
1:O:231:MET:HE2	1:O:231:MET:N	2.22	0.55
1:P:718:VAL:HG12	1:P:720:ASP:OD2	2.06	0.55
1:V:231:MET:HE2	1:V:231:MET:N	2.22	0.55
1:W:718:VAL:HG12	1:W:720:ASP:OD2	2.06	0.55
1:Y:231:MET:N	1:Y:231:MET:HE2	2.22	0.55
1:Y:480:ARG:HB3	1:Y:570:TRP:CG	2.41	0.55
1:d:480:ARG:HB3	1:d:570:TRP:CG	2.41	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:j:718:VAL:HG12	1:j:720:ASP:OD2	2.06	0.55
1:n:480:ARG:HB3	1:n:570:TRP:CG	2.41	0.55
1:t:479:GLN:HE22	1:v:581:GLN:H	1.55	0.55
1:2:231:MET:HE2	1:2:231:MET:N	2.22	0.55
1:3:231:MET:HE2	1:3:231:MET:N	2.22	0.55
1:A:521:TYR:CD1	1:A:526:ALA:HA	2.42	0.55
1:G:581:GLN:H	1:I:479:GLN:HE22	1.54	0.55
1:M:231:MET:HE2	1:M:231:MET:N	2.22	0.55
1:N:231:MET:HE2	1:N:231:MET:H	1.72	0.55
1:O:378:THR:HG23	1:O:386:ASN:HD22	1.70	0.55
1:T:231:MET:N	1:T:231:MET:HE2	2.22	0.55
1:X:479:GLN:HE22	1:e:581:GLN:H	1.55	0.55
1:a:521:TYR:CD1	1:a:526:ALA:HA	2.43	0.55
1:c:581:GLN:H	1:o:479:GLN:HE22	1.55	0.55
1:d:521:TYR:CD1	1:d:526:ALA:HA	2.42	0.55
1:l:231:MET:HE2	1:l:231:MET:N	2.22	0.55
1:m:231:MET:HE2	1:m:231:MET:N	2.22	0.55
1:p:231:MET:HE2	1:p:231:MET:N	2.22	0.55
1:s:480:ARG:HB3	1:s:570:TRP:CG	2.41	0.55
1:v:559:GLU:OE2	1:v:609:TYR:OH	2.24	0.55
1:3:521:TYR:CD1	1:3:526:ALA:HA	2.42	0.55
1:B:231:MET:HE2	1:B:231:MET:N	2.22	0.54
1:C:479:GLN:HE22	1:M:581:GLN:H	1.55	0.54
1:D:521:TYR:CD1	1:D:526:ALA:HA	2.43	0.54
1:F:231:MET:HE2	1:F:231:MET:N	2.22	0.54
1:K:529:LEU:HD21	1:K:556:VAL:HG11	1.90	0.54
1:L:231:MET:H	1:L:231:MET:HE2	1.71	0.54
1:N:231:MET:HE2	1:N:231:MET:N	2.22	0.54
1:Q:718:VAL:HG12	1:Q:720:ASP:OD2	2.06	0.54
1:U:480:ARG:HB3	1:U:570:TRP:CG	2.41	0.54
1:W:231:MET:HE2	1:W:231:MET:N	2.22	0.54
1:W:581:GLN:H	1:Y:479:GLN:HE22	1.54	0.54
1:X:521:TYR:CD1	1:X:526:ALA:HA	2.42	0.54
1:a:231:MET:HE2	1:a:231:MET:N	2.22	0.54
1:b:231:MET:HE2	1:b:231:MET:N	2.22	0.54
1:g:479:GLN:HE22	1:h:581:GLN:H	1.55	0.54
1:h:231:MET:HE2	1:h:231:MET:N	2.22	0.54
1:i:231:MET:HE2	1:i:231:MET:N	2.22	0.54
1:n:231:MET:HE2	1:n:231:MET:H	1.71	0.54
1:n:521:TYR:CD1	1:n:526:ALA:HA	2.43	0.54
1:o:231:MET:HE2	1:o:231:MET:N	2.22	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:r:529:LEU:HD21	1:r:556:VAL:HG11	1.90	0.54
1:v:521:TYR:CD1	1:v:526:ALA:HA	2.43	0.54
1:x:718:VAL:HG12	1:x:720:ASP:OD2	2.06	0.54
1:y:231:MET:HE2	1:y:231:MET:N	2.22	0.54
1:z:231:MET:H	1:z:231:MET:HE2	1.71	0.54
1:1:231:MET:HE2	1:1:231:MET:N	2.22	0.54
1:6:718:VAL:HG12	1:6:720:ASP:OD2	2.06	0.54
1:7:231:MET:HE2	1:7:231:MET:N	2.22	0.54
1:A:559:GLU:OE2	1:A:609:TYR:OH	2.24	0.54
1:H:529:LEU:HD21	1:H:556:VAL:HG11	1.90	0.54
1:I:521:TYR:CD1	1:I:526:ALA:HA	2.43	0.54
1:I:529:LEU:HD21	1:I:556:VAL:HG11	1.90	0.54
1:S:529:LEU:HD21	1:S:556:VAL:HG11	1.90	0.54
1:X:231:MET:HE2	1:X:231:MET:N	2.22	0.54
1:Y:231:MET:HE2	1:Y:231:MET:H	1.71	0.54
1:Z:529:LEU:HD21	1:Z:556:VAL:HG11	1.89	0.54
1:b:529:LEU:HD21	1:b:556:VAL:HG11	1.90	0.54
1:f:529:LEU:HD21	1:f:556:VAL:HG11	1.90	0.54
1:i:231:MET:HE2	1:i:231:MET:H	1.72	0.54
1:k:521:TYR:CD1	1:k:526:ALA:HA	2.43	0.54
1:o:521:TYR:CD1	1:o:526:ALA:HA	2.43	0.54
1:q:275:TRP:CE2	1:q:646:LYS:HD2	2.43	0.54
1:t:231:MET:N	1:t:231:MET:HE2	2.22	0.54
1:t:581:GLN:H	1:u:479:GLN:HE22	1.55	0.54
1:u:529:LEU:HD21	1:u:556:VAL:HG11	1.90	0.54
1:2:275:TRP:CE2	1:2:646:LYS:HD2	2.43	0.54
1:4:529:LEU:HD21	1:4:556:VAL:HG11	1.90	0.54
1:5:529:LEU:HD21	1:5:556:VAL:HG11	1.90	0.54
1:6:231:MET:HE2	1:6:231:MET:N	2.22	0.54
1:7:231:MET:HE2	1:7:231:MET:H	1.72	0.54
1:B:275:TRP:CE2	1:B:646:LYS:HD2	2.43	0.54
1:C:521:TYR:CD1	1:C:526:ALA:HA	2.43	0.54
1:F:480:ARG:HB3	1:F:570:TRP:CG	2.41	0.54
1:G:231:MET:HE2	1:G:231:MET:N	2.22	0.54
1:J:275:TRP:CE2	1:J:646:LYS:HD2	2.43	0.54
1:K:231:MET:HE2	1:K:231:MET:N	2.22	0.54
1:O:275:TRP:CE2	1:O:646:LYS:HD2	2.43	0.54
1:R:275:TRP:CE2	1:R:646:LYS:HD2	2.43	0.54
1:T:521:TYR:CD1	1:T:526:ALA:HA	2.43	0.54
1:U:231:MET:HE2	1:U:231:MET:N	2.22	0.54
1:V:581:GLN:H	1:e:479:GLN:HE22	1.54	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:f:231:MET:HE2	1:f:231:MET:N	2.22	0.54
1:f:275:TRP:CE2	1:f:646:LYS:HD2	2.43	0.54
1:p:521:TYR:CD1	1:p:526:ALA:HA	2.43	0.54
1:q:521:TYR:CD1	1:q:526:ALA:HA	2.43	0.54
1:u:521:TYR:CD1	1:u:526:ALA:HA	2.43	0.54
1:y:480:ARG:HB3	1:y:570:TRP:CG	2.41	0.54
1:1:275:TRP:CE2	1:1:646:LYS:HD2	2.43	0.54
1:4:231:MET:N	1:4:231:MET:HE2	2.22	0.54
1:8:529:LEU:HD21	1:8:556:VAL:HG11	1.90	0.54
1:E:521:TYR:CD1	1:E:526:ALA:HA	2.42	0.54
1:G:275:TRP:CE2	1:G:646:LYS:HD2	2.43	0.54
1:K:231:MET:HE2	1:K:231:MET:H	1.71	0.54
1:M:479:GLN:HE22	1:b:581:GLN:H	1.55	0.54
1:P:231:MET:HE2	1:P:231:MET:N	2.22	0.54
1:R:521:TYR:CD1	1:R:526:ALA:HA	2.43	0.54
1:U:521:TYR:CD1	1:U:526:ALA:HA	2.43	0.54
1:V:521:TYR:CD1	1:V:526:ALA:HA	2.43	0.54
1:b:275:TRP:CE2	1:b:646:LYS:HD2	2.43	0.54
1:d:231:MET:H	1:d:231:MET:HE2	1.72	0.54
1:g:521:TYR:CD1	1:g:526:ALA:HA	2.43	0.54
1:i:479:GLN:HE22	1:k:581:GLN:H	1.54	0.54
1:i:521:TYR:CD1	1:i:526:ALA:HA	2.42	0.54
1:l:275:TRP:CE2	1:l:646:LYS:HD2	2.43	0.54
1:m:521:TYR:CD1	1:m:526:ALA:HA	2.43	0.54
1:m:529:LEU:HD21	1:m:556:VAL:HG11	1.90	0.54
1:s:231:MET:HE2	1:s:231:MET:N	2.22	0.54
1:s:521:TYR:CD1	1:s:526:ALA:HA	2.43	0.54
1:t:275:TRP:CE2	1:t:646:LYS:HD2	2.43	0.54
1:6:529:LEU:HD21	1:6:556:VAL:HG11	1.89	0.54
1:A:275:TRP:CE2	1:A:646:LYS:HD2	2.43	0.54
1:C:275:TRP:CE2	1:C:646:LYS:HD2	2.43	0.54
1:H:275:TRP:CE2	1:H:646:LYS:HD2	2.43	0.54
1:J:521:TYR:CD1	1:J:526:ALA:HA	2.42	0.54
1:M:521:TYR:CD1	1:M:526:ALA:HA	2.43	0.54
1:N:521:TYR:CD1	1:N:526:ALA:HA	2.42	0.54
1:N:529:LEU:HD21	1:N:556:VAL:HG11	1.90	0.54
1:T:231:MET:HE2	1:T:231:MET:H	1.71	0.54
1:T:529:LEU:HD21	1:T:556:VAL:HG11	1.90	0.54
1:Z:521:TYR:CD1	1:Z:526:ALA:HA	2.43	0.54
1:b:521:TYR:CD1	1:b:526:ALA:HA	2.43	0.54
1:c:479:GLN:HE22	1:p:581:GLN:H	1.55	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:d:275:TRP:CE2	1:d:646:LYS:HD2	2.43	0.54
1:f:521:TYR:CD1	1:f:526:ALA:HA	2.43	0.54
1:f:581:GLN:H	1:h:479:GLN:HE22	1.55	0.54
1:h:521:TYR:CD1	1:h:526:ALA:HA	2.43	0.54
1:i:529:LEU:HD21	1:i:556:VAL:HG11	1.90	0.54
1:k:231:MET:HE2	1:k:231:MET:N	2.22	0.54
1:n:275:TRP:CE2	1:n:646:LYS:HD2	2.43	0.54
1:o:275:TRP:CE2	1:o:646:LYS:HD2	2.43	0.54
1:s:231:MET:HE2	1:s:231:MET:H	1.71	0.54
1:w:521:TYR:CD1	1:w:526:ALA:HA	2.43	0.54
1:4:231:MET:HE2	1:4:231:MET:H	1.71	0.54
1:5:275:TRP:CE2	1:5:646:LYS:HD2	2.43	0.54
1:D:231:MET:HE2	1:D:231:MET:N	2.22	0.54
1:K:479:GLN:HE22	1:8:581:GLN:H	1.54	0.54
1:U:231:MET:HE2	1:U:231:MET:H	1.71	0.54
1:U:529:LEU:HD21	1:U:556:VAL:HG11	1.90	0.54
1:W:529:LEU:HD21	1:W:556:VAL:HG11	1.90	0.54
1:X:275:TRP:CE2	1:X:646:LYS:HD2	2.43	0.54
1:d:231:MET:HE2	1:d:231:MET:N	2.22	0.54
1:e:248:TYR:OH	1:e:368:LEU:O	2.26	0.54
1:g:275:TRP:CE2	1:g:646:LYS:HD2	2.43	0.54
1:j:231:MET:HE2	1:j:231:MET:N	2.22	0.54
1:n:231:MET:HE2	1:n:231:MET:N	2.22	0.54
1:s:529:LEU:HD21	1:s:556:VAL:HG11	1.90	0.54
1:v:275:TRP:CE2	1:v:646:LYS:HD2	2.43	0.54
1:2:521:TYR:CD1	1:2:526:ALA:HA	2.42	0.54
1:6:521:TYR:CD1	1:6:526:ALA:HA	2.42	0.54
1:8:521:TYR:CD1	1:8:526:ALA:HA	2.43	0.54
1:B:521:TYR:CD1	1:B:526:ALA:HA	2.43	0.54
1:C:529:LEU:HD21	1:C:556:VAL:HG11	1.90	0.54
1:D:479:GLN:HE22	1:P:581:GLN:H	1.54	0.54
1:P:521:TYR:CD1	1:P:526:ALA:HA	2.42	0.54
1:T:275:TRP:CE2	1:T:646:LYS:HD2	2.43	0.54
1:W:521:TYR:CD1	1:W:526:ALA:HA	2.43	0.54
1:X:559:GLU:OE2	1:X:609:TYR:OH	2.24	0.54
1:Z:581:GLN:H	1:4:479:GLN:HE22	1.54	0.54
1:c:521:TYR:CD1	1:c:526:ALA:HA	2.42	0.54
1:g:529:LEU:HD21	1:g:556:VAL:HG11	1.90	0.54
1:i:275:TRP:CE2	1:i:646:LYS:HD2	2.43	0.54
1:j:521:TYR:CD1	1:j:526:ALA:HA	2.43	0.54
1:o:559:GLU:OE2	1:o:609:TYR:OH	2.24	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:r:521:TYR:CD1	1:r:526:ALA:HA	2.42	0.54
1:s:718:VAL:HG12	1:s:720:ASP:OD2	2.06	0.54
1:t:231:MET:HE2	1:t:231:MET:H	1.71	0.54
1:v:231:MET:HE2	1:v:231:MET:H	1.71	0.54
1:z:275:TRP:CE2	1:z:646:LYS:HD2	2.43	0.54
1:6:248:TYR:OH	1:6:368:LEU:O	2.26	0.54
1:B:663:TRP:NE1	1:B:665:SER:O	2.41	0.54
1:F:275:TRP:CE2	1:F:646:LYS:HD2	2.43	0.54
1:G:521:TYR:CD1	1:G:526:ALA:HA	2.42	0.54
1:K:521:TYR:CD1	1:K:526:ALA:HA	2.43	0.54
1:N:275:TRP:CE2	1:N:646:LYS:HD2	2.43	0.54
1:O:718:VAL:HG12	1:O:720:ASP:OD2	2.06	0.54
1:Q:529:LEU:HD21	1:Q:556:VAL:HG11	1.90	0.54
1:R:529:LEU:HD21	1:R:556:VAL:HG11	1.90	0.54
1:e:275:TRP:CE2	1:e:646:LYS:HD2	2.43	0.54
1:e:521:TYR:CD1	1:e:526:ALA:HA	2.42	0.54
1:j:529:LEU:HD21	1:j:556:VAL:HG11	1.89	0.54
1:m:231:MET:HE2	1:m:231:MET:H	1.71	0.54
1:m:275:TRP:CE2	1:m:646:LYS:HD2	2.43	0.54
1:n:529:LEU:HD21	1:n:556:VAL:HG11	1.90	0.54
1:q:529:LEU:HD21	1:q:556:VAL:HG11	1.90	0.54
1:t:521:TYR:CD1	1:t:526:ALA:HA	2.42	0.54
1:x:529:LEU:HD21	1:x:556:VAL:HG11	1.90	0.54
1:y:275:TRP:CE2	1:y:646:LYS:HD2	2.43	0.54
1:z:231:MET:HE2	1:z:231:MET:N	2.22	0.54
1:1:521:TYR:CD1	1:1:526:ALA:HA	2.43	0.54
1:1:663:TRP:NE1	1:1:665:SER:O	2.41	0.54
1:4:521:TYR:CD1	1:4:526:ALA:HA	2.42	0.54
1:E:231:MET:H	1:E:231:MET:HE2	1.71	0.54
1:L:231:MET:HE2	1:L:231:MET:N	2.22	0.54
1:L:275:TRP:CE2	1:L:646:LYS:HD2	2.43	0.54
1:M:275:TRP:CE2	1:M:646:LYS:HD2	2.43	0.54
1:P:529:LEU:HD21	1:P:556:VAL:HG11	1.90	0.54
1:Q:231:MET:HE2	1:Q:231:MET:N	2.22	0.54
1:Q:663:TRP:NE1	1:Q:665:SER:O	2.41	0.54
1:S:521:TYR:CD1	1:S:526:ALA:HA	2.43	0.54
1:U:718:VAL:HG12	1:U:720:ASP:OD2	2.06	0.54
1:V:275:TRP:CE2	1:V:646:LYS:HD2	2.43	0.54
1:b:718:VAL:HG12	1:b:720:ASP:OD2	2.06	0.54
1:c:275:TRP:CE2	1:c:646:LYS:HD2	2.43	0.54
1:h:275:TRP:CE2	1:h:646:LYS:HD2	2.43	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:h:663:TRP:NE1	1:h:665:SER:O	2.41	0.54
1:o:529:LEU:HD21	1:o:556:VAL:HG11	1.90	0.54
1:p:275:TRP:CE2	1:p:646:LYS:HD2	2.43	0.54
1:t:559:GLU:OE2	1:t:609:TYR:OH	2.24	0.54
1:v:231:MET:HE2	1:v:231:MET:N	2.22	0.54
1:x:663:TRP:NE1	1:x:665:SER:O	2.41	0.54
1:y:529:LEU:HD21	1:y:556:VAL:HG11	1.89	0.54
1:7:275:TRP:CE2	1:7:646:LYS:HD2	2.43	0.54
1:A:231:MET:H	1:A:231:MET:HE2	1.71	0.54
1:D:581:GLN:H	1:N:479:GLN:HE22	1.54	0.54
1:E:275:TRP:CE2	1:E:646:LYS:HD2	2.43	0.54
1:F:521:TYR:CD1	1:F:526:ALA:HA	2.42	0.54
1:G:231:MET:HE2	1:G:231:MET:H	1.72	0.54
1:J:581:GLN:H	1:L:479:GLN:HE22	1.54	0.54
1:M:663:TRP:NE1	1:M:665:SER:O	2.41	0.54
1:P:275:TRP:CE2	1:P:646:LYS:HD2	2.43	0.54
1:W:275:TRP:CE2	1:W:646:LYS:HD2	2.43	0.54
1:Y:275:TRP:CE2	1:Y:646:LYS:HD2	2.43	0.54
1:c:529:LEU:HD21	1:c:556:VAL:HG11	1.89	0.54
1:c:559:GLU:OE2	1:c:609:TYR:OH	2.24	0.54
1:d:529:LEU:HD21	1:d:556:VAL:HG11	1.90	0.54
1:l:718:VAL:HG12	1:l:720:ASP:OD2	2.06	0.54
1:o:718:VAL:HG12	1:o:720:ASP:OD2	2.06	0.54
1:w:231:MET:N	1:w:231:MET:HE2	2.22	0.54
1:w:275:TRP:CE2	1:w:646:LYS:HD2	2.43	0.54
1:x:231:MET:HE2	1:x:231:MET:N	2.22	0.54
1:y:718:VAL:HG12	1:y:720:ASP:OD2	2.06	0.54
1:5:231:MET:HE2	1:5:231:MET:N	2.22	0.54
1:5:521:TYR:CD1	1:5:526:ALA:HA	2.42	0.54
1:6:275:TRP:CE2	1:6:646:LYS:HD2	2.43	0.54
1:A:231:MET:HE2	1:A:231:MET:N	2.22	0.53
1:E:231:MET:HE2	1:E:231:MET:N	2.22	0.53
1:F:718:VAL:HG12	1:F:720:ASP:OD2	2.06	0.53
1:G:559:GLU:OE2	1:G:609:TYR:OH	2.24	0.53
1:H:231:MET:HE2	1:H:231:MET:N	2.22	0.53
1:M:529:LEU:HD21	1:M:556:VAL:HG11	1.90	0.53
1:T:663:TRP:NE1	1:T:665:SER:O	2.41	0.53
1:V:718:VAL:HG12	1:V:720:ASP:OD2	2.06	0.53
1:e:529:LEU:HD21	1:e:556:VAL:HG11	1.90	0.53
1:f:718:VAL:HG12	1:f:720:ASP:OD2	2.06	0.53
1:h:529:LEU:HD21	1:h:556:VAL:HG11	1.90	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:j:275:TRP:CE2	1:j:646:LYS:HD2	2.43	0.53
1:j:581:GLN:H	1:k:479:GLN:HE22	1.55	0.53
1:m:663:TRP:NE1	1:m:665:SER:O	2.41	0.53
1:w:231:MET:HE2	1:w:231:MET:H	1.71	0.53
1:w:479:GLN:HE22	1:y:581:GLN:H	1.55	0.53
1:y:521:TYR:CD1	1:y:526:ALA:HA	2.43	0.53
1:z:479:GLN:HE22	1:2:581:GLN:H	1.54	0.53
1:z:521:TYR:CD1	1:z:526:ALA:HA	2.43	0.53
1:7:529:LEU:HD21	1:7:556:VAL:HG11	1.90	0.53
1:A:529:LEU:HD21	1:A:556:VAL:HG11	1.90	0.53
1:A:663:TRP:NE1	1:A:665:SER:O	2.41	0.53
1:E:479:GLN:HE22	1:F:581:GLN:H	1.55	0.53
1:F:529:LEU:HD21	1:F:556:VAL:HG11	1.90	0.53
1:H:521:TYR:CD1	1:H:526:ALA:HA	2.43	0.53
1:L:521:TYR:CD1	1:L:526:ALA:HA	2.43	0.53
1:Q:521:TYR:CD1	1:Q:526:ALA:HA	2.42	0.53
1:X:529:LEU:HD21	1:X:556:VAL:HG11	1.90	0.53
1:Y:529:LEU:HD21	1:Y:556:VAL:HG11	1.90	0.53
1:d:663:TRP:NE1	1:d:665:SER:O	2.41	0.53
1:e:559:GLU:OE2	1:e:609:TYR:OH	2.24	0.53
1:k:275:TRP:CE2	1:k:646:LYS:HD2	2.43	0.53
1:n:663:TRP:NE1	1:n:665:SER:O	2.41	0.53
1:p:718:VAL:HG12	1:p:720:ASP:OD2	2.06	0.53
1:v:529:LEU:HD21	1:v:556:VAL:HG11	1.90	0.53
1:v:663:TRP:NE1	1:v:665:SER:O	2.41	0.53
1:y:663:TRP:NE1	1:y:665:SER:O	2.41	0.53
1:7:663:TRP:NE1	1:7:665:SER:O	2.41	0.53
1:D:275:TRP:CE2	1:D:646:LYS:HD2	2.43	0.53
1:D:718:VAL:HG12	1:D:720:ASP:OD2	2.06	0.53
1:F:663:TRP:NE1	1:F:665:SER:O	2.41	0.53
1:G:663:TRP:NE1	1:G:665:SER:O	2.41	0.53
1:L:529:LEU:HD21	1:L:556:VAL:HG11	1.90	0.53
1:O:521:TYR:CD1	1:O:526:ALA:HA	2.42	0.53
1:U:275:TRP:CE2	1:U:646:LYS:HD2	2.43	0.53
1:X:718:VAL:HG12	1:X:720:ASP:OD2	2.06	0.53
1:Y:663:TRP:NE1	1:Y:665:SER:O	2.41	0.53
1:d:581:GLN:H	1:l:479:GLN:HE22	1.55	0.53
1:e:231:MET:HE2	1:e:231:MET:N	2.22	0.53
1:i:581:GLN:H	1:j:479:GLN:HE22	1.54	0.53
1:k:718:VAL:HG12	1:k:720:ASP:OD2	2.06	0.53
1:l:559:GLU:OE2	1:l:609:TYR:OH	2.24	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:q:559:GLU:OE2	1:q:609:TYR:OH	2.24	0.53
1:t:663:TRP:NE1	1:t:665:SER:O	2.41	0.53
1:z:529:LEU:HD21	1:z:556:VAL:HG11	1.89	0.53
1:5:718:VAL:HG12	1:5:720:ASP:OD2	2.06	0.53
1:O:479:GLN:HE22	1:n:581:GLN:H	1.55	0.53
1:O:559:GLU:OE2	1:O:609:TYR:OH	2.24	0.53
1:O:663:TRP:NE1	1:O:665:SER:O	2.41	0.53
1:U:559:GLU:OE2	1:U:609:TYR:OH	2.24	0.53
1:s:275:TRP:CE2	1:s:646:LYS:HD2	2.43	0.53
1:s:559:GLU:OE2	1:s:609:TYR:OH	2.24	0.53
1:x:521:TYR:CD1	1:x:526:ALA:HA	2.43	0.53
1:3:275:TRP:CE2	1:3:646:LYS:HD2	2.43	0.53
1:3:529:LEU:HD21	1:3:556:VAL:HG11	1.90	0.53
1:E:663:TRP:NE1	1:E:665:SER:O	2.41	0.53
1:H:718:VAL:HG12	1:H:720:ASP:OD2	2.06	0.53
1:J:529:LEU:HD21	1:J:556:VAL:HG11	1.89	0.53
1:O:581:GLN:H	1:m:479:GLN:HE22	1.54	0.53
1:R:559:GLU:OE2	1:R:609:TYR:OH	2.24	0.53
1:T:479:GLN:HE22	1:l:581:GLN:H	1.55	0.53
1:Y:521:TYR:CD1	1:Y:526:ALA:HA	2.43	0.53
1:a:275:TRP:CE2	1:a:646:LYS:HD2	2.43	0.53
1:a:529:LEU:HD21	1:a:556:VAL:HG11	1.89	0.53
1:k:663:TRP:NE1	1:k:665:SER:O	2.41	0.53
1:l:521:TYR:CD1	1:l:526:ALA:HA	2.42	0.53
1:l:663:TRP:NE1	1:l:665:SER:O	2.41	0.53
1:r:275:TRP:CE2	1:r:646:LYS:HD2	2.43	0.53
1:s:663:TRP:NE1	1:s:665:SER:O	2.41	0.53
1:v:718:VAL:HG12	1:v:720:ASP:OD2	2.06	0.53
1:z:663:TRP:NE1	1:z:665:SER:O	2.41	0.53
1:2:529:LEU:HD21	1:2:556:VAL:HG11	1.89	0.53
1:6:663:TRP:NE1	1:6:665:SER:O	2.41	0.53
1:7:521:TYR:CD1	1:7:526:ALA:HA	2.42	0.53
1:J:718:VAL:HG12	1:J:720:ASP:OD2	2.06	0.53
1:L:663:TRP:NE1	1:L:665:SER:O	2.41	0.53
1:O:529:LEU:HD21	1:O:556:VAL:HG11	1.90	0.53
1:Q:275:TRP:CE2	1:Q:646:LYS:HD2	2.43	0.53
1:R:231:MET:HE2	1:R:231:MET:N	2.22	0.53
1:S:663:TRP:NE1	1:S:665:SER:O	2.41	0.53
1:V:663:TRP:NE1	1:V:665:SER:O	2.41	0.53
1:W:663:TRP:NE1	1:W:665:SER:O	2.41	0.53
1:Z:275:TRP:CE2	1:Z:646:LYS:HD2	2.43	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:c:231:MET:HE2	1:c:231:MET:N	2.22	0.53
1:p:663:TRP:NE1	1:p:665:SER:O	2.41	0.53
1:r:559:GLU:OE2	1:r:609:TYR:OH	2.24	0.53
1:r:663:TRP:NE1	1:r:665:SER:O	2.41	0.53
1:w:663:TRP:NE1	1:w:665:SER:O	2.41	0.53
1:D:529:LEU:HD21	1:D:556:VAL:HG11	1.89	0.53
1:D:663:TRP:NE1	1:D:665:SER:O	2.41	0.53
1:N:581:GLN:H	1:P:479:GLN:HE22	1.55	0.53
1:P:663:TRP:NE1	1:P:665:SER:O	2.41	0.53
1:S:275:TRP:CE2	1:S:646:LYS:HD2	2.43	0.53
1:k:529:LEU:HD21	1:k:556:VAL:HG11	1.90	0.53
1:l:529:LEU:HD21	1:l:556:VAL:HG11	1.90	0.53
1:q:231:MET:HE2	1:q:231:MET:N	2.22	0.53
1:r:231:MET:HE2	1:r:231:MET:N	2.22	0.53
1:u:275:TRP:CE2	1:u:646:LYS:HD2	2.43	0.53
1:2:718:VAL:HG12	1:2:720:ASP:OD2	2.06	0.53
1:8:231:MET:HE2	1:8:231:MET:N	2.22	0.53
1:8:275:TRP:CE2	1:8:646:LYS:HD2	2.43	0.53
1:8:663:TRP:NE1	1:8:665:SER:O	2.41	0.53
1:A:718:VAL:HG12	1:A:720:ASP:OD2	2.06	0.53
1:C:663:TRP:NE1	1:C:665:SER:O	2.41	0.53
1:I:275:TRP:CE2	1:I:646:LYS:HD2	2.43	0.53
1:J:663:TRP:NE1	1:J:665:SER:O	2.41	0.53
1:S:231:MET:HE2	1:S:231:MET:N	2.22	0.53
1:V:479:GLN:HE22	1:X:581:GLN:H	1.55	0.53
1:Z:231:MET:HE2	1:Z:231:MET:N	2.22	0.53
1:Z:663:TRP:NE1	1:Z:665:SER:O	2.41	0.53
1:d:718:VAL:HG12	1:d:720:ASP:OD2	2.06	0.53
1:e:663:TRP:NE1	1:e:665:SER:O	2.41	0.53
1:f:479:GLN:HE22	1:g:581:GLN:H	1.55	0.53
1:n:718:VAL:HG12	1:n:720:ASP:OD2	2.06	0.53
1:o:663:TRP:NE1	1:o:665:SER:O	2.41	0.53
1:t:529:LEU:HD21	1:t:556:VAL:HG11	1.90	0.53
1:x:275:TRP:CE2	1:x:646:LYS:HD2	2.43	0.53
1:G:529:LEU:HD21	1:G:556:VAL:HG11	1.90	0.53
1:K:275:TRP:CE2	1:K:646:LYS:HD2	2.43	0.53
1:Y:718:VAL:HG12	1:Y:720:ASP:OD2	2.06	0.53
1:c:663:TRP:NE1	1:c:665:SER:O	2.41	0.53
1:g:663:TRP:NE1	1:g:665:SER:O	2.41	0.53
1:j:663:TRP:NE1	1:j:665:SER:O	2.41	0.53
1:o:581:GLN:H	1:p:479:GLN:HE22	1.55	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:2:663:TRP:NE1	1:2:665:SER:O	2.41	0.53
1:4:275:TRP:CE2	1:4:646:LYS:HD2	2.43	0.53
1:4:663:TRP:NE1	1:4:665:SER:O	2.41	0.53
1:5:663:TRP:NE1	1:5:665:SER:O	2.41	0.53
1:B:529:LEU:HD21	1:B:556:VAL:HG11	1.90	0.53
1:K:663:TRP:NE1	1:K:665:SER:O	2.41	0.53
1:S:559:GLU:OE2	1:S:609:TYR:OH	2.24	0.53
1:X:663:TRP:NE1	1:X:665:SER:O	2.41	0.53
1:b:663:TRP:NE1	1:b:665:SER:O	2.41	0.53
1:f:663:TRP:NE1	1:f:665:SER:O	2.41	0.53
1:1:529:LEU:HD21	1:1:556:VAL:HG11	1.90	0.53
1:7:718:VAL:HG12	1:7:720:ASP:OD2	2.06	0.53
1:H:663:TRP:NE1	1:H:665:SER:O	2.41	0.52
1:U:663:TRP:NE1	1:U:665:SER:O	2.41	0.52
1:a:663:TRP:NE1	1:a:665:SER:O	2.41	0.52
1:u:663:TRP:NE1	1:u:665:SER:O	2.41	0.52
1:3:663:TRP:NE1	1:3:665:SER:O	2.41	0.52
1:A:236:ILE:HG12	1:A:680:VAL:HG22	1.92	0.52
1:C:581:GLN:H	1:b:479:GLN:HE22	1.55	0.52
1:D:236:ILE:HG12	1:D:680:VAL:HG22	1.92	0.52
1:G:236:ILE:HG12	1:G:680:VAL:HG22	1.92	0.52
1:I:236:ILE:HG12	1:I:680:VAL:HG22	1.92	0.52
1:k:236:ILE:HG12	1:k:680:VAL:HG22	1.92	0.52
1:I:663:TRP:NE1	1:I:665:SER:O	2.41	0.52
1:J:236:ILE:HG12	1:J:680:VAL:HG22	1.92	0.52
1:J:559:GLU:OE2	1:J:609:TYR:OH	2.24	0.52
1:N:663:TRP:NE1	1:N:665:SER:O	2.41	0.52
1:P:215:ASP:HB3	1:P:405:GLY:O	2.10	0.52
1:i:663:TRP:NE1	1:i:665:SER:O	2.41	0.52
1:j:215:ASP:HB3	1:j:405:GLY:O	2.10	0.52
1:n:559:GLU:OE2	1:n:609:TYR:OH	2.24	0.52
1:o:215:ASP:HB3	1:o:405:GLY:O	2.10	0.52
1:q:236:ILE:HG12	1:q:680:VAL:HG22	1.92	0.52
1:q:718:VAL:HG12	1:q:720:ASP:OD2	2.06	0.52
1:t:236:ILE:HG12	1:t:680:VAL:HG22	1.92	0.52
1:v:236:ILE:HG12	1:v:680:VAL:HG22	1.92	0.52
1:2:236:ILE:HG12	1:2:680:VAL:HG22	1.92	0.52
1:2:559:GLU:OE2	1:2:609:TYR:OH	2.24	0.52
1:F:236:ILE:HG12	1:F:680:VAL:HG22	1.92	0.52
1:H:236:ILE:HG12	1:H:680:VAL:HG22	1.92	0.52
1:R:718:VAL:HG12	1:R:720:ASP:OD2	2.06	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:V:529:LEU:HD21	1:V:556:VAL:HG11	1.90	0.52
1:X:215:ASP:HB3	1:X:405:GLY:O	2.10	0.52
1:d:559:GLU:OE2	1:d:609:TYR:OH	2.24	0.52
1:u:236:ILE:HG12	1:u:680:VAL:HG22	1.92	0.52
1:w:529:LEU:HD21	1:w:556:VAL:HG11	1.90	0.52
1:7:215:ASP:HB3	1:7:405:GLY:O	2.10	0.52
1:R:236:ILE:HG12	1:R:680:VAL:HG22	1.92	0.52
1:Y:215:ASP:HB3	1:Y:405:GLY:O	2.10	0.52
1:d:236:ILE:HG12	1:d:680:VAL:HG22	1.92	0.52
1:z:718:VAL:HG12	1:z:720:ASP:OD2	2.06	0.52
1:5:236:ILE:HG12	1:5:680:VAL:HG22	1.92	0.52
1:E:529:LEU:HD21	1:E:556:VAL:HG11	1.90	0.52
1:I:248:TYR:OH	1:I:368:LEU:O	2.26	0.52
1:R:663:TRP:NE1	1:R:665:SER:O	2.41	0.52
1:T:236:ILE:HG12	1:T:680:VAL:HG22	1.92	0.52
1:p:529:LEU:HD21	1:p:556:VAL:HG11	1.90	0.52
1:q:215:ASP:HB3	1:q:405:GLY:O	2.10	0.52
1:q:663:TRP:NE1	1:q:665:SER:O	2.41	0.52
1:y:236:ILE:HG12	1:y:680:VAL:HG22	1.92	0.52
1:C:215:ASP:HB3	1:C:405:GLY:O	2.10	0.52
1:C:236:ILE:HG12	1:C:680:VAL:HG22	1.92	0.52
1:E:236:ILE:HG12	1:E:680:VAL:HG22	1.92	0.52
1:L:718:VAL:HG12	1:L:720:ASP:OD2	2.06	0.52
1:O:236:ILE:HG12	1:O:680:VAL:HG22	1.92	0.52
1:R:215:ASP:HB3	1:R:405:GLY:O	2.10	0.52
1:U:215:ASP:HB3	1:U:405:GLY:O	2.10	0.52
1:g:236:ILE:HG12	1:g:680:VAL:HG22	1.92	0.52
1:m:236:ILE:HG12	1:m:680:VAL:HG22	1.92	0.52
1:n:236:ILE:HG12	1:n:680:VAL:HG22	1.92	0.52
1:r:236:ILE:HG12	1:r:680:VAL:HG22	1.92	0.52
1:s:215:ASP:HB3	1:s:405:GLY:O	2.10	0.52
1:7:626:HIS:O	1:7:628:SER:N	2.41	0.52
1:D:248:TYR:OH	1:D:368:LEU:O	2.26	0.52
1:J:215:ASP:HB3	1:J:405:GLY:O	2.10	0.52
1:P:236:ILE:HG12	1:P:680:VAL:HG22	1.92	0.52
1:S:236:ILE:HG12	1:S:680:VAL:HG22	1.92	0.52
1:c:215:ASP:HB3	1:c:405:GLY:O	2.10	0.52
1:e:236:ILE:HG12	1:e:680:VAL:HG22	1.92	0.52
1:g:215:ASP:HB3	1:g:405:GLY:O	2.10	0.52
1:j:236:ILE:HG12	1:j:680:VAL:HG22	1.92	0.52
1:p:236:ILE:HG12	1:p:680:VAL:HG22	1.92	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:y:215:ASP:HB3	1:y:405:GLY:O	2.10	0.52
1:8:215:ASP:HB3	1:8:405:GLY:O	2.10	0.52
1:D:215:ASP:HB3	1:D:405:GLY:O	2.10	0.52
1:Z:215:ASP:HB3	1:Z:405:GLY:O	2.10	0.52
1:a:486:GLY:O	1:a:527:SER:OG	2.27	0.52
1:e:215:ASP:HB3	1:e:405:GLY:O	2.10	0.52
1:k:215:ASP:HB3	1:k:405:GLY:O	2.10	0.52
1:k:248:TYR:OH	1:k:368:LEU:O	2.26	0.52
1:k:559:GLU:OE2	1:k:609:TYR:OH	2.24	0.52
1:l:236:ILE:HG12	1:l:680:VAL:HG22	1.92	0.52
1:w:236:ILE:HG12	1:w:680:VAL:HG22	1.92	0.52
1:3:486:GLY:O	1:3:527:SER:OG	2.27	0.52
1:D:559:GLU:OE2	1:D:609:TYR:OH	2.24	0.52
1:F:215:ASP:HB3	1:F:405:GLY:O	2.10	0.52
1:F:626:HIS:O	1:F:628:SER:N	2.41	0.52
1:G:215:ASP:HB3	1:G:405:GLY:O	2.10	0.52
1:L:215:ASP:HB3	1:L:405:GLY:O	2.10	0.52
1:M:486:GLY:O	1:M:527:SER:OG	2.27	0.52
1:O:215:ASP:HB3	1:O:405:GLY:O	2.10	0.52
1:V:236:ILE:HG12	1:V:680:VAL:HG22	1.92	0.52
1:a:215:ASP:HB3	1:a:405:GLY:O	2.10	0.52
1:c:236:ILE:HG12	1:c:680:VAL:HG22	1.92	0.52
1:d:626:HIS:O	1:d:628:SER:N	2.41	0.52
1:h:236:ILE:HG12	1:h:680:VAL:HG22	1.92	0.52
1:h:486:GLY:O	1:h:527:SER:OG	2.27	0.52
1:E:215:ASP:HB3	1:E:405:GLY:O	2.10	0.51
1:J:248:TYR:OH	1:J:368:LEU:O	2.26	0.51
1:M:236:ILE:HG12	1:M:680:VAL:HG22	1.92	0.51
1:a:718:VAL:HG12	1:a:720:ASP:OD2	2.06	0.51
1:i:215:ASP:HB3	1:i:405:GLY:O	2.10	0.51
1:j:521:TYR:HA	1:j:570:TRP:CH2	2.46	0.51
1:l:215:ASP:HB3	1:l:405:GLY:O	2.10	0.51
1:t:215:ASP:HB3	1:t:405:GLY:O	2.10	0.51
1:z:215:ASP:HB3	1:z:405:GLY:O	2.10	0.51
1:2:215:ASP:HB3	1:2:405:GLY:O	2.10	0.51
1:3:215:ASP:HB3	1:3:405:GLY:O	2.10	0.51
1:P:521:TYR:HA	1:P:570:TRP:CH2	2.46	0.51
1:V:215:ASP:HB3	1:V:405:GLY:O	2.10	0.51
1:n:626:HIS:O	1:n:628:SER:N	2.41	0.51
1:y:626:HIS:O	1:y:628:SER:N	2.41	0.51
1:C:521:TYR:HA	1:C:570:TRP:CH2	2.46	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:215:ASP:HB3	1:K:405:GLY:O	2.10	0.51
1:K:559:GLU:O	1:K:562:VAL:HG22	2.11	0.51
1:M:559:GLU:O	1:M:562:VAL:HG22	2.11	0.51
1:N:215:ASP:HB3	1:N:405:GLY:O	2.10	0.51
1:Q:521:TYR:HA	1:Q:570:TRP:CH2	2.46	0.51
1:R:626:HIS:O	1:R:628:SER:N	2.41	0.51
1:T:521:TYR:HA	1:T:570:TRP:CH2	2.46	0.51
1:W:236:ILE:HG12	1:W:680:VAL:HG22	1.92	0.51
1:W:559:GLU:OE2	1:W:609:TYR:OH	2.24	0.51
1:l:559:GLU:O	1:l:562:VAL:HG22	2.11	0.51
1:o:246:PRO:HB3	1:7:654:PRO:HG2	1.93	0.51
1:o:521:TYR:HA	1:o:570:TRP:CH2	2.46	0.51
1:p:215:ASP:HB3	1:p:405:GLY:O	2.10	0.51
1:q:521:TYR:HA	1:q:570:TRP:CH2	2.46	0.51
1:w:215:ASP:HB3	1:w:405:GLY:O	2.10	0.51
1:x:521:TYR:HA	1:x:570:TRP:CH2	2.46	0.51
1:3:521:TYR:HA	1:3:570:TRP:CH2	2.46	0.51
1:4:215:ASP:HB3	1:4:405:GLY:O	2.10	0.51
1:4:559:GLU:O	1:4:562:VAL:HG22	2.11	0.51
1:6:559:GLU:OE2	1:6:609:TYR:OH	2.24	0.51
1:7:521:TYR:HA	1:7:570:TRP:CH2	2.46	0.51
1:A:215:ASP:HB3	1:A:405:GLY:O	2.10	0.51
1:B:236:ILE:HG12	1:B:680:VAL:HG22	1.92	0.51
1:J:559:GLU:O	1:J:562:VAL:HG22	2.11	0.51
1:O:559:GLU:O	1:O:562:VAL:HG22	2.11	0.51
1:R:521:TYR:HA	1:R:570:TRP:CH2	2.46	0.51
1:g:521:TYR:HA	1:g:570:TRP:CH2	2.46	0.51
1:h:559:GLU:O	1:h:562:VAL:HG22	2.11	0.51
1:k:559:GLU:O	1:k:562:VAL:HG22	2.11	0.51
1:m:521:TYR:HA	1:m:570:TRP:CH2	2.46	0.51
1:n:486:GLY:O	1:n:527:SER:OG	2.27	0.51
1:q:626:HIS:O	1:q:628:SER:N	2.41	0.51
1:r:215:ASP:HB3	1:r:405:GLY:O	2.10	0.51
1:v:521:TYR:HA	1:v:570:TRP:CH2	2.46	0.51
1:1:236:ILE:HG12	1:1:680:VAL:HG22	1.92	0.51
1:6:236:ILE:HG12	1:6:680:VAL:HG22	1.92	0.51
1:A:521:TYR:HA	1:A:570:TRP:CH2	2.46	0.51
1:A:559:GLU:O	1:A:562:VAL:HG22	2.11	0.51
1:D:559:GLU:O	1:D:562:VAL:HG22	2.11	0.51
1:H:521:TYR:HA	1:H:570:TRP:CH2	2.46	0.51
1:I:215:ASP:HB3	1:I:405:GLY:O	2.10	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:521:TYR:HA	1:K:570:TRP:CH2	2.45	0.51
1:T:559:GLU:OE2	1:T:609:TYR:OH	2.24	0.51
1:W:215:ASP:HB3	1:W:405:GLY:O	2.10	0.51
1:X:521:TYR:HA	1:X:570:TRP:CH2	2.46	0.51
1:X:559:GLU:O	1:X:562:VAL:HG22	2.11	0.51
1:Y:521:TYR:HA	1:Y:570:TRP:CH2	2.46	0.51
1:a:521:TYR:HA	1:a:570:TRP:CH2	2.46	0.51
1:b:215:ASP:HB3	1:b:405:GLY:O	2.10	0.51
1:d:486:GLY:O	1:d:527:SER:OG	2.27	0.51
1:f:521:TYR:HA	1:f:570:TRP:CH2	2.46	0.51
1:h:626:HIS:O	1:h:628:SER:N	2.41	0.51
1:m:215:ASP:HB3	1:m:405:GLY:O	2.10	0.51
1:n:215:ASP:HB3	1:n:405:GLY:O	2.10	0.51
1:u:521:TYR:HA	1:u:570:TRP:CH2	2.46	0.51
1:v:559:GLU:O	1:v:562:VAL:HG22	2.11	0.51
1:z:521:TYR:HA	1:z:570:TRP:CH2	2.45	0.51
1:2:521:TYR:HA	1:2:570:TRP:CH2	2.46	0.51
1:2:559:GLU:O	1:2:562:VAL:HG22	2.11	0.51
1:3:718:VAL:HG12	1:3:720:ASP:OD2	2.06	0.51
1:4:521:TYR:HA	1:4:570:TRP:CH2	2.46	0.51
1:5:347:PRO:HB3	1:7:427:GLN:HE22	1.76	0.51
1:5:521:TYR:HA	1:5:570:TRP:CH2	2.46	0.51
1:B:626:HIS:O	1:B:628:SER:N	2.41	0.51
1:H:559:GLU:O	1:H:562:VAL:HG22	2.11	0.51
1:J:521:TYR:HA	1:J:570:TRP:CH2	2.46	0.51
1:K:236:ILE:HG12	1:K:680:VAL:HG22	1.92	0.51
1:M:626:HIS:O	1:M:628:SER:N	2.41	0.51
1:Q:215:ASP:HB3	1:Q:405:GLY:O	2.10	0.51
1:S:215:ASP:HB3	1:S:405:GLY:O	2.10	0.51
1:b:521:TYR:HA	1:b:570:TRP:CH2	2.46	0.51
1:b:559:GLU:O	1:b:562:VAL:HG22	2.11	0.51
1:d:215:ASP:HB3	1:d:405:GLY:O	2.10	0.51
1:f:215:ASP:HB3	1:f:405:GLY:O	2.10	0.51
1:m:559:GLU:OE2	1:m:609:TYR:OH	2.24	0.51
1:o:559:GLU:O	1:o:562:VAL:HG22	2.11	0.51
1:r:559:GLU:O	1:r:562:VAL:HG22	2.11	0.51
1:v:215:ASP:HB3	1:v:405:GLY:O	2.10	0.51
1:1:626:HIS:O	1:1:628:SER:N	2.41	0.51
1:4:236:ILE:HG12	1:4:680:VAL:HG22	1.92	0.51
1:6:215:ASP:HB3	1:6:405:GLY:O	2.10	0.51
1:A:309:PHE:HD1	1:A:677:VAL:HG22	1.76	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:480:ARG:HB3	1:F:570:TRP:CD2	2.46	0.51
1:G:309:PHE:HD1	1:G:677:VAL:HG22	1.76	0.51
1:G:521:TYR:HA	1:G:570:TRP:CH2	2.46	0.51
1:I:521:TYR:HA	1:I:570:TRP:CH2	2.46	0.51
1:I:718:VAL:HG12	1:I:720:ASP:OD2	2.06	0.51
1:K:309:PHE:HD1	1:K:677:VAL:HG22	1.76	0.51
1:L:521:TYR:HA	1:L:570:TRP:CH2	2.46	0.51
1:N:236:ILE:HG12	1:N:680:VAL:HG22	1.92	0.51
1:O:521:TYR:HA	1:O:570:TRP:CH2	2.46	0.51
1:P:559:GLU:O	1:P:562:VAL:HG22	2.11	0.51
1:R:480:ARG:HB3	1:R:570:TRP:CD2	2.46	0.51
1:S:559:GLU:O	1:S:562:VAL:HG22	2.11	0.51
1:U:521:TYR:HA	1:U:570:TRP:CH2	2.45	0.51
1:V:480:ARG:HB3	1:V:570:TRP:CD2	2.46	0.51
1:V:559:GLU:O	1:V:562:VAL:HG22	2.11	0.51
1:Y:309:PHE:HD1	1:Y:677:VAL:HG22	1.76	0.51
1:Y:480:ARG:HB3	1:Y:570:TRP:CD2	2.46	0.51
1:Z:236:ILE:HG12	1:Z:680:VAL:HG22	1.92	0.51
1:c:521:TYR:HA	1:c:570:TRP:CH2	2.46	0.51
1:l:521:TYR:HA	1:l:570:TRP:CH2	2.46	0.51
1:m:480:ARG:HB3	1:m:570:TRP:CD2	2.46	0.51
1:o:236:ILE:HG12	1:o:680:VAL:HG22	1.92	0.51
1:p:559:GLU:O	1:p:562:VAL:HG22	2.11	0.51
1:q:480:ARG:HB3	1:q:570:TRP:CD2	2.46	0.51
1:r:253:TYR:HB2	1:x:711:PRO:HG2	1.93	0.51
1:t:521:TYR:HA	1:t:570:TRP:CH2	2.46	0.51
1:u:215:ASP:HB3	1:u:405:GLY:O	2.10	0.51
1:u:718:VAL:HG12	1:u:720:ASP:OD2	2.06	0.51
1:v:248:TYR:OH	1:v:368:LEU:O	2.26	0.51
1:v:309:PHE:HD1	1:v:677:VAL:HG22	1.76	0.51
1:w:559:GLU:O	1:w:562:VAL:HG22	2.11	0.51
1:x:215:ASP:HB3	1:x:405:GLY:O	2.10	0.51
1:y:309:PHE:HD1	1:y:677:VAL:HG22	1.76	0.51
1:4:309:PHE:HD1	1:4:677:VAL:HG22	1.76	0.51
1:5:559:GLU:O	1:5:562:VAL:HG22	2.11	0.51
1:7:480:ARG:HB3	1:7:570:TRP:CD2	2.46	0.51
1:8:236:ILE:HG12	1:8:680:VAL:HG22	1.92	0.51
1:C:626:HIS:O	1:C:628:SER:N	2.41	0.51
1:E:486:GLY:O	1:E:527:SER:OG	2.27	0.51
1:E:559:GLU:O	1:E:562:VAL:HG22	2.11	0.51
1:F:309:PHE:HD1	1:F:677:VAL:HG22	1.76	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:521:TYR:HA	1:F:570:TRP:CH2	2.46	0.51
1:I:626:HIS:O	1:I:628:SER:N	2.41	0.51
1:Q:711:PRO:HG2	1:S:253:TYR:HB2	1.93	0.51
1:R:559:GLU:O	1:R:562:VAL:HG22	2.11	0.51
1:T:215:ASP:HB3	1:T:405:GLY:O	2.10	0.51
1:T:480:ARG:HB3	1:T:570:TRP:CD2	2.46	0.51
1:U:309:PHE:HD1	1:U:677:VAL:HG22	1.76	0.51
1:V:559:GLU:OE2	1:V:609:TYR:OH	2.24	0.51
1:W:480:ARG:HB3	1:W:570:TRP:CD2	2.46	0.51
1:X:236:ILE:HG12	1:X:680:VAL:HG22	1.92	0.51
1:b:236:ILE:HG12	1:b:680:VAL:HG22	1.92	0.51
1:e:480:ARG:HB3	1:e:570:TRP:CD2	2.46	0.51
1:e:521:TYR:HA	1:e:570:TRP:CH2	2.46	0.51
1:f:559:GLU:O	1:f:562:VAL:HG22	2.11	0.51
1:j:559:GLU:O	1:j:562:VAL:HG22	2.11	0.51
1:p:480:ARG:HB3	1:p:570:TRP:CD2	2.46	0.51
1:p:559:GLU:OE2	1:p:609:TYR:OH	2.24	0.51
1:u:626:HIS:O	1:u:628:SER:N	2.41	0.51
1:7:309:PHE:HD1	1:7:677:VAL:HG22	1.76	0.51
1:8:480:ARG:HB3	1:8:570:TRP:CD2	2.46	0.51
1:A:248:TYR:OH	1:A:368:LEU:O	2.26	0.51
1:B:559:GLU:O	1:B:562:VAL:HG22	2.11	0.51
1:G:480:ARG:HB3	1:G:570:TRP:CD2	2.46	0.51
1:G:711:PRO:HG2	1:W:253:TYR:HB2	1.93	0.51
1:R:309:PHE:HD1	1:R:677:VAL:HG22	1.76	0.51
1:U:236:ILE:HG12	1:U:680:VAL:HG22	1.92	0.51
1:U:559:GLU:O	1:U:562:VAL:HG22	2.11	0.51
1:Z:480:ARG:HB3	1:Z:570:TRP:CD2	2.46	0.51
1:c:480:ARG:HB3	1:c:570:TRP:CD2	2.46	0.51
1:d:480:ARG:HB3	1:d:570:TRP:CD2	2.46	0.51
1:f:236:ILE:HG12	1:f:680:VAL:HG22	1.92	0.51
1:f:309:PHE:HD1	1:f:677:VAL:HG22	1.76	0.51
1:i:236:ILE:HG12	1:i:680:VAL:HG22	1.92	0.51
1:i:559:GLU:O	1:i:562:VAL:HG22	2.11	0.51
1:p:521:TYR:HA	1:p:570:TRP:CH2	2.46	0.51
1:q:559:GLU:O	1:q:562:VAL:HG22	2.11	0.51
1:s:309:PHE:HD1	1:s:677:VAL:HG22	1.76	0.51
1:s:559:GLU:O	1:s:562:VAL:HG22	2.11	0.51
1:t:309:PHE:HD1	1:t:677:VAL:HG22	1.76	0.51
1:t:480:ARG:HB3	1:t:570:TRP:CD2	2.46	0.51
1:t:711:PRO:HG2	1:6:253:TYR:HB2	1.93	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:u:559:GLU:O	1:u:562:VAL:HG22	2.11	0.51
1:x:236:ILE:HG12	1:x:680:VAL:HG22	1.92	0.51
1:y:480:ARG:HB3	1:y:570:TRP:CD2	2.46	0.51
1:y:521:TYR:HA	1:y:570:TRP:CH2	2.46	0.51
1:6:480:ARG:HB3	1:6:570:TRP:CD2	2.46	0.51
1:B:347:PRO:HB3	1:L:427:GLN:HE22	1.76	0.51
1:D:480:ARG:HB3	1:D:570:TRP:CD2	2.46	0.51
1:D:521:TYR:HA	1:D:570:TRP:CH2	2.46	0.51
1:H:215:ASP:HB3	1:H:405:GLY:O	2.10	0.51
1:I:309:PHE:HD1	1:I:677:VAL:HG22	1.76	0.51
1:I:559:GLU:O	1:I:562:VAL:HG22	2.11	0.51
1:I:711:PRO:HG2	1:J:253:TYR:HB2	1.93	0.51
1:L:480:ARG:HB3	1:L:570:TRP:CD2	2.46	0.51
1:M:521:TYR:HA	1:M:570:TRP:CH2	2.45	0.51
1:N:309:PHE:HD1	1:N:677:VAL:HG22	1.76	0.51
1:N:559:GLU:O	1:N:562:VAL:HG22	2.11	0.51
1:Q:236:ILE:HG12	1:Q:680:VAL:HG22	1.92	0.51
1:U:480:ARG:HB3	1:U:570:TRP:CD2	2.46	0.51
1:V:521:TYR:HA	1:V:570:TRP:CH2	2.46	0.51
1:W:521:TYR:HA	1:W:570:TRP:CH2	2.46	0.51
1:Y:559:GLU:O	1:Y:562:VAL:HG22	2.11	0.51
1:a:480:ARG:HB3	1:a:570:TRP:CD2	2.46	0.51
1:b:309:PHE:HD1	1:b:677:VAL:HG22	1.76	0.51
1:i:309:PHE:HD1	1:i:677:VAL:HG22	1.76	0.51
1:i:521:TYR:HA	1:i:570:TRP:CH2	2.45	0.51
1:i:626:HIS:O	1:i:628:SER:N	2.41	0.51
1:k:480:ARG:HB3	1:k:570:TRP:CD2	2.46	0.51
1:k:521:TYR:HA	1:k:570:TRP:CH2	2.46	0.51
1:n:480:ARG:HB3	1:n:570:TRP:CD2	2.46	0.51
1:n:521:TYR:HA	1:n:570:TRP:CH2	2.46	0.51
1:n:559:GLU:O	1:n:562:VAL:HG22	2.11	0.51
1:q:309:PHE:HD1	1:q:677:VAL:HG22	1.76	0.51
1:s:521:TYR:HA	1:s:570:TRP:CH2	2.46	0.51
1:t:253:TYR:HB2	1:y:711:PRO:HG2	1.93	0.51
1:u:711:PRO:HG2	1:2:253:TYR:HB2	1.93	0.51
1:z:427:GLN:HE22	1:1:347:PRO:HB3	1.76	0.51
1:z:480:ARG:HB3	1:z:570:TRP:CD2	2.46	0.51
1:1:309:PHE:HD1	1:1:677:VAL:HG22	1.76	0.51
1:1:559:GLU:O	1:1:562:VAL:HG22	2.11	0.51
1:2:480:ARG:HB3	1:2:570:TRP:CD2	2.46	0.51
1:A:427:GLN:HE22	1:G:347:PRO:HB3	1.76	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:309:PHE:HD1	1:B:677:VAL:HG22	1.76	0.50
1:B:521:TYR:HA	1:B:570:TRP:CH2	2.46	0.50
1:E:626:HIS:O	1:E:628:SER:N	2.41	0.50
1:F:559:GLU:O	1:F:562:VAL:HG22	2.11	0.50
1:F:711:PRO:HG2	1:G:253:TYR:HB2	1.94	0.50
1:J:480:ARG:HB3	1:J:570:TRP:CD2	2.46	0.50
1:S:480:ARG:HB3	1:S:570:TRP:CD2	2.46	0.50
1:V:626:HIS:O	1:V:628:SER:N	2.41	0.50
1:W:559:GLU:O	1:W:562:VAL:HG22	2.11	0.50
1:Y:236:ILE:HG12	1:Y:680:VAL:HG22	1.92	0.50
1:d:521:TYR:HA	1:d:570:TRP:CH2	2.46	0.50
1:d:559:GLU:O	1:d:562:VAL:HG22	2.11	0.50
1:g:626:HIS:O	1:g:628:SER:N	2.41	0.50
1:j:711:PRO:HG2	1:x:253:TYR:HB2	1.93	0.50
1:m:309:PHE:HD1	1:m:677:VAL:HG22	1.76	0.50
1:n:253:TYR:HB2	1:r:711:PRO:HG2	1.93	0.50
1:r:480:ARG:HB3	1:r:570:TRP:CD2	2.46	0.50
1:s:236:ILE:HG12	1:s:680:VAL:HG22	1.92	0.50
1:s:480:ARG:HB3	1:s:570:TRP:CD2	2.46	0.50
1:u:309:PHE:HD1	1:u:677:VAL:HG22	1.76	0.50
1:x:559:GLU:O	1:x:562:VAL:HG22	2.11	0.50
1:5:215:ASP:HB3	1:5:405:GLY:O	2.10	0.50
1:8:521:TYR:HA	1:8:570:TRP:CH2	2.46	0.50
1:C:559:GLU:O	1:C:562:VAL:HG22	2.11	0.50
1:H:480:ARG:HB3	1:H:570:TRP:CD2	2.46	0.50
1:J:309:PHE:HD1	1:J:677:VAL:HG22	1.76	0.50
1:K:253:TYR:HB2	1:7:711:PRO:HG2	1.92	0.50
1:O:253:TYR:HB2	1:d:711:PRO:HG2	1.94	0.50
1:Q:559:GLU:O	1:Q:562:VAL:HG22	2.11	0.50
1:R:473:GLY:HA3	1:R:603:TRP:HB3	1.94	0.50
1:X:309:PHE:HD1	1:X:677:VAL:HG22	1.76	0.50
1:Z:521:TYR:HA	1:Z:570:TRP:CH2	2.46	0.50
1:a:559:GLU:O	1:a:562:VAL:HG22	2.11	0.50
1:e:309:PHE:HD1	1:e:677:VAL:HG22	1.76	0.50
1:f:347:PRO:HB3	1:g:427:GLN:HE22	1.77	0.50
1:f:480:ARG:HB3	1:f:570:TRP:CD2	2.46	0.50
1:g:559:GLU:O	1:g:562:VAL:HG22	2.11	0.50
1:j:253:TYR:HB2	1:l:711:PRO:HG2	1.94	0.50
1:l:253:TYR:HB2	1:n:711:PRO:HG2	1.94	0.50
1:o:309:PHE:HD1	1:o:677:VAL:HG22	1.76	0.50
1:p:626:HIS:O	1:p:628:SER:N	2.41	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:u:248:TYR:OH	1:u:368:LEU:O	2.26	0.50
1:w:521:TYR:HA	1:w:570:TRP:CH2	2.45	0.50
1:y:559:GLU:O	1:y:562:VAL:HG22	2.11	0.50
1:2:309:PHE:HD1	1:2:677:VAL:HG22	1.76	0.50
1:3:480:ARG:HB3	1:3:570:TRP:CD2	2.46	0.50
1:3:559:GLU:O	1:3:562:VAL:HG22	2.11	0.50
1:6:521:TYR:HA	1:6:570:TRP:CH2	2.46	0.50
1:6:559:GLU:O	1:6:562:VAL:HG22	2.11	0.50
1:7:236:ILE:HG12	1:7:680:VAL:HG22	1.92	0.50
1:8:473:GLY:HA3	1:8:603:TRP:HB3	1.94	0.50
1:B:376:MET:O	1:B:389:SER:OG	2.30	0.50
1:H:419:PHE:CD2	1:H:684:ARG:HD2	2.47	0.50
1:H:711:PRO:HG2	1:I:253:TYR:HB2	1.93	0.50
1:I:376:MET:O	1:I:389:SER:OG	2.30	0.50
1:N:521:TYR:HA	1:N:570:TRP:CH2	2.46	0.50
1:P:711:PRO:HG2	1:Q:253:TYR:HB2	1.93	0.50
1:S:711:PRO:HG2	1:d:253:TYR:HB2	1.94	0.50
1:T:309:PHE:HD1	1:T:677:VAL:HG22	1.76	0.50
1:Z:376:MET:O	1:Z:389:SER:OG	2.30	0.50
1:Z:473:GLY:HA3	1:Z:603:TRP:HB3	1.94	0.50
1:b:480:ARG:HB3	1:b:570:TRP:CD2	2.46	0.50
1:e:559:GLU:O	1:e:562:VAL:HG22	2.11	0.50
1:h:521:TYR:HA	1:h:570:TRP:CH2	2.46	0.50
1:i:427:GLN:HE22	1:j:347:PRO:HB3	1.77	0.50
1:o:419:PHE:CD2	1:o:684:ARG:HD2	2.47	0.50
1:q:473:GLY:HA3	1:q:603:TRP:HB3	1.94	0.50
1:u:253:TYR:HB2	1:5:711:PRO:HG2	1.93	0.50
1:u:376:MET:O	1:u:389:SER:OG	2.30	0.50
1:x:480:ARG:HB3	1:x:570:TRP:CD2	2.46	0.50
1:1:376:MET:O	1:1:389:SER:OG	2.30	0.50
1:1:521:TYR:HA	1:1:570:TRP:CH2	2.46	0.50
1:8:376:MET:O	1:8:389:SER:OG	2.30	0.50
1:A:473:GLY:HA3	1:A:603:TRP:HB3	1.94	0.50
1:B:215:ASP:HB3	1:B:405:GLY:O	2.10	0.50
1:C:473:GLY:HA3	1:C:603:TRP:HB3	1.94	0.50
1:D:309:PHE:HD1	1:D:677:VAL:HG22	1.76	0.50
1:E:427:GLN:HE22	1:Q:347:PRO:HB3	1.77	0.50
1:I:480:ARG:HB3	1:I:570:TRP:CD2	2.46	0.50
1:J:376:MET:O	1:J:389:SER:OG	2.30	0.50
1:J:419:PHE:CD2	1:J:684:ARG:HD2	2.47	0.50
1:L:309:PHE:HD1	1:L:677:VAL:HG22	1.76	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:559:GLU:O	1:L:562:VAL:HG22	2.11	0.50
1:O:480:ARG:HB3	1:O:570:TRP:CD2	2.46	0.50
1:O:711:PRO:HG2	1:P:253:TYR:HB2	1.94	0.50
1:P:376:MET:O	1:P:389:SER:OG	2.30	0.50
1:Q:480:ARG:HB3	1:Q:570:TRP:CD2	2.46	0.50
1:R:347:PRO:HB3	1:U:427:GLN:HE22	1.76	0.50
1:S:521:TYR:HA	1:S:570:TRP:CH2	2.46	0.50
1:X:419:PHE:CD2	1:X:684:ARG:HD2	2.47	0.50
1:Y:473:GLY:HA3	1:Y:603:TRP:HB3	1.94	0.50
1:Z:309:PHE:HD1	1:Z:677:VAL:HG22	1.76	0.50
1:Z:448:ASP:OD1	1:Z:452:ASN:N	2.44	0.50
1:Z:559:GLU:O	1:Z:562:VAL:HG22	2.11	0.50
1:a:419:PHE:CD2	1:a:684:ARG:HD2	2.47	0.50
1:f:559:GLU:OE2	1:f:609:TYR:OH	2.24	0.50
1:g:473:GLY:HA3	1:g:603:TRP:HB3	1.94	0.50
1:g:480:ARG:HB3	1:g:570:TRP:CD2	2.46	0.50
1:j:376:MET:O	1:j:389:SER:OG	2.30	0.50
1:j:480:ARG:HB3	1:j:570:TRP:CD2	2.46	0.50
1:p:519:ALA:HB3	1:p:568:VAL:HA	1.94	0.50
1:q:347:PRO:HB3	1:s:427:GLN:HE22	1.76	0.50
1:u:480:ARG:HB3	1:u:570:TRP:CD2	2.46	0.50
1:v:419:PHE:CD2	1:v:684:ARG:HD2	2.47	0.50
1:v:473:GLY:HA3	1:v:603:TRP:HB3	1.94	0.50
1:w:427:GLN:HE22	1:x:347:PRO:HB3	1.76	0.50
1:w:626:HIS:O	1:w:628:SER:N	2.41	0.50
1:y:419:PHE:CD2	1:y:684:ARG:HD2	2.47	0.50
1:z:236:ILE:HG12	1:z:680:VAL:HG22	1.92	0.50
1:z:486:GLY:O	1:z:527:SER:OG	2.27	0.50
1:1:486:GLY:O	1:1:527:SER:OG	2.27	0.50
1:2:376:MET:O	1:2:389:SER:OG	2.30	0.50
1:2:419:PHE:CD2	1:2:684:ARG:HD2	2.47	0.50
1:3:309:PHE:HD1	1:3:677:VAL:HG22	1.76	0.50
1:5:419:PHE:CD2	1:5:684:ARG:HD2	2.47	0.50
1:5:480:ARG:HB3	1:5:570:TRP:CD2	2.46	0.50
1:7:559:GLU:O	1:7:562:VAL:HG22	2.11	0.50
1:8:559:GLU:O	1:8:562:VAL:HG22	2.11	0.50
1:C:427:GLN:HE22	1:b:347:PRO:HB3	1.77	0.50
1:D:347:PRO:HB3	1:P:427:GLN:HE22	1.77	0.50
1:E:521:TYR:HA	1:E:570:TRP:CH2	2.46	0.50
1:F:419:PHE:CD2	1:F:684:ARG:HD2	2.47	0.50
1:G:473:GLY:HA3	1:G:603:TRP:HB3	1.94	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:253:TYR:HB2	1:Z:711:PRO:HG2	1.93	0.50
1:H:347:PRO:HB3	1:Y:427:GLN:HE22	1.77	0.50
1:J:711:PRO:HG2	1:a:253:TYR:HB2	1.93	0.50
1:L:236:ILE:HG12	1:L:680:VAL:HG22	1.92	0.50
1:P:480:ARG:HB3	1:P:570:TRP:CD2	2.46	0.50
1:Q:309:PHE:HD1	1:Q:677:VAL:HG22	1.76	0.50
1:T:448:ASP:OD1	1:T:452:ASN:N	2.44	0.50
1:T:559:GLU:O	1:T:562:VAL:HG22	2.11	0.50
1:a:236:ILE:HG12	1:a:680:VAL:HG22	1.92	0.50
1:a:309:PHE:HD1	1:a:677:VAL:HG22	1.76	0.50
1:b:559:GLU:OE2	1:b:609:TYR:OH	2.24	0.50
1:c:309:PHE:HD1	1:c:677:VAL:HG22	1.76	0.50
1:g:347:PRO:HB3	1:h:427:GLN:HE22	1.77	0.50
1:l:480:ARG:HB3	1:l:570:TRP:CD2	2.46	0.50
1:m:427:GLN:HE22	1:n:347:PRO:HB3	1.77	0.50
1:o:427:GLN:HE22	1:p:347:PRO:HB3	1.77	0.50
1:p:473:GLY:HA3	1:p:603:TRP:HB3	1.94	0.50
1:r:521:TYR:HA	1:r:570:TRP:CH2	2.46	0.50
1:z:309:PHE:HD1	1:z:677:VAL:HG22	1.76	0.50
1:1:215:ASP:HB3	1:1:405:GLY:O	2.10	0.50
1:1:419:PHE:CD2	1:1:684:ARG:HD2	2.47	0.50
1:3:419:PHE:CD2	1:3:684:ARG:HD2	2.47	0.50
1:A:419:PHE:CD2	1:A:684:ARG:HD2	2.47	0.50
1:A:427:GLN:NE2	1:G:347:PRO:HB3	2.27	0.50
1:B:419:PHE:CD2	1:B:684:ARG:HD2	2.47	0.50
1:C:347:PRO:HB3	1:M:427:GLN:HE22	1.77	0.50
1:C:480:ARG:HB3	1:C:570:TRP:CD2	2.46	0.50
1:C:519:ALA:HB3	1:C:568:VAL:HA	1.94	0.50
1:D:473:GLY:HA3	1:D:603:TRP:HB3	1.94	0.50
1:E:309:PHE:HD1	1:E:677:VAL:HG22	1.76	0.50
1:E:376:MET:O	1:E:389:SER:OG	2.30	0.50
1:G:519:ALA:HB3	1:G:568:VAL:HA	1.94	0.50
1:H:448:ASP:OD1	1:H:452:ASN:N	2.44	0.50
1:I:473:GLY:HA3	1:I:603:TRP:HB3	1.94	0.50
1:J:473:GLY:HA3	1:J:603:TRP:HB3	1.94	0.50
1:K:711:PRO:HG2	1:L:253:TYR:HB2	1.94	0.50
1:L:555:MET:HB3	1:L:722:LEU:HG	1.94	0.50
1:M:376:MET:O	1:M:389:SER:OG	2.30	0.50
1:N:473:GLY:HA3	1:N:603:TRP:HB3	1.94	0.50
1:P:419:PHE:CD2	1:P:684:ARG:HD2	2.47	0.50
1:S:473:GLY:HA3	1:S:603:TRP:HB3	1.94	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:V:347:PRO:HB3	1:X:427:GLN:HE22	1.77	0.50
1:V:473:GLY:HA3	1:V:603:TRP:HB3	1.94	0.50
1:c:559:GLU:O	1:c:562:VAL:HG22	2.11	0.50
1:h:215:ASP:HB3	1:h:405:GLY:O	2.10	0.50
1:i:376:MET:O	1:i:389:SER:OG	2.30	0.50
1:i:473:GLY:HA3	1:i:603:TRP:HB3	1.94	0.50
1:j:419:PHE:CD2	1:j:684:ARG:HD2	2.47	0.50
1:k:473:GLY:HA3	1:k:603:TRP:HB3	1.94	0.50
1:l:419:PHE:CD2	1:l:684:ARG:HD2	2.47	0.50
1:o:376:MET:O	1:o:389:SER:OG	2.30	0.50
1:o:480:ARG:HB3	1:o:570:TRP:CD2	2.46	0.50
1:r:473:GLY:HA3	1:r:603:TRP:HB3	1.94	0.50
1:r:486:GLY:O	1:r:527:SER:OG	2.27	0.50
1:t:347:PRO:HB3	1:v:427:GLN:HE22	1.77	0.50
1:t:473:GLY:HA3	1:t:603:TRP:HB3	1.94	0.50
1:t:519:ALA:HB3	1:t:568:VAL:HA	1.94	0.50
1:u:473:GLY:HA3	1:u:603:TRP:HB3	1.94	0.50
1:z:376:MET:O	1:z:389:SER:OG	2.30	0.50
1:z:559:GLU:OE2	1:z:609:TYR:OH	2.24	0.50
1:z:559:GLU:O	1:z:562:VAL:HG22	2.11	0.50
1:2:711:PRO:HG2	1:3:253:TYR:HB2	1.93	0.50
1:5:253:TYR:HB2	1:8:711:PRO:HG2	1.94	0.50
1:5:448:ASP:OD1	1:5:452:ASN:N	2.44	0.50
1:6:473:GLY:HA3	1:6:603:TRP:HB3	1.94	0.50
1:7:473:GLY:HA3	1:7:603:TRP:HB3	1.94	0.50
1:8:309:PHE:HD1	1:8:677:VAL:HG22	1.76	0.50
1:8:519:ALA:HB3	1:8:568:VAL:HA	1.94	0.50
1:A:480:ARG:HB3	1:A:570:TRP:CD2	2.46	0.50
1:B:519:ALA:HB3	1:B:568:VAL:HA	1.94	0.50
1:I:419:PHE:CD2	1:I:684:ARG:HD2	2.47	0.50
1:J:519:ALA:HB3	1:J:568:VAL:HA	1.94	0.50
1:M:480:ARG:HB3	1:M:570:TRP:CD2	2.46	0.50
1:N:376:MET:O	1:N:389:SER:OG	2.30	0.50
1:N:555:MET:HB3	1:N:722:LEU:HG	1.94	0.50
1:O:419:PHE:CD2	1:O:684:ARG:HD2	2.47	0.50
1:O:473:GLY:HA3	1:O:603:TRP:HB3	1.94	0.50
1:O:519:ALA:HB3	1:O:568:VAL:HA	1.94	0.50
1:P:626:HIS:O	1:P:628:SER:N	2.41	0.50
1:T:427:GLN:HE22	1:d:347:PRO:HB3	1.77	0.50
1:V:519:ALA:HB3	1:V:568:VAL:HA	1.94	0.50
1:W:419:PHE:CD2	1:W:684:ARG:HD2	2.47	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:W:473:GLY:HA3	1:W:603:TRP:HB3	1.94	0.50
1:X:480:ARG:HB3	1:X:570:TRP:CD2	2.46	0.50
1:Z:253:TYR:HB2	1:a:711:PRO:HG2	1.94	0.50
1:Z:519:ALA:HB3	1:Z:568:VAL:HA	1.94	0.50
1:a:519:ALA:HB3	1:a:568:VAL:HA	1.94	0.50
1:d:519:ALA:HB3	1:d:568:VAL:HA	1.94	0.50
1:g:309:PHE:HD1	1:g:677:VAL:HG22	1.76	0.50
1:g:519:ALA:HB3	1:g:568:VAL:HA	1.94	0.50
1:g:559:GLU:OE2	1:g:609:TYR:OH	2.24	0.50
1:h:376:MET:O	1:h:389:SER:OG	2.30	0.50
1:j:427:GLN:HE22	1:k:347:PRO:HB3	1.77	0.50
1:j:626:HIS:O	1:j:628:SER:N	2.41	0.50
1:k:309:PHE:HD1	1:k:677:VAL:HG22	1.76	0.50
1:l:519:ALA:HB3	1:l:568:VAL:HA	1.94	0.50
1:n:519:ALA:HB3	1:n:568:VAL:HA	1.94	0.50
1:p:419:PHE:CD2	1:p:684:ARG:HD2	2.47	0.50
1:p:448:ASP:OD1	1:p:452:ASN:N	2.44	0.50
1:t:427:GLN:HE22	1:u:347:PRO:HB3	1.76	0.50
1:w:309:PHE:HD1	1:w:677:VAL:HG22	1.76	0.50
1:x:309:PHE:HD1	1:x:677:VAL:HG22	1.76	0.50
1:x:419:PHE:CD2	1:x:684:ARG:HD2	2.47	0.50
1:z:347:PRO:HB3	1:2:427:GLN:HE22	1.76	0.50
1:1:519:ALA:HB3	1:1:568:VAL:HA	1.94	0.50
1:2:473:GLY:HA3	1:2:603:TRP:HB3	1.94	0.50
1:2:519:ALA:HB3	1:2:568:VAL:HA	1.94	0.50
1:3:236:ILE:HG12	1:3:680:VAL:HG22	1.92	0.50
1:3:347:PRO:HB3	1:4:427:GLN:HE22	1.77	0.50
1:3:519:ALA:HB3	1:3:568:VAL:HA	1.94	0.50
1:3:711:PRO:HG2	1:8:253:TYR:HB2	1.94	0.50
1:6:419:PHE:CD2	1:6:684:ARG:HD2	2.47	0.50
1:8:448:ASP:OD1	1:8:452:ASN:N	2.44	0.50
1:8:486:GLY:O	1:8:527:SER:OG	2.27	0.50
1:B:253:TYR:HB2	1:C:711:PRO:HG2	1.94	0.50
1:B:427:GLN:HE22	1:J:347:PRO:HB3	1.77	0.50
1:B:473:GLY:HA3	1:B:603:TRP:HB3	1.94	0.50
1:C:309:PHE:HD1	1:C:677:VAL:HG22	1.76	0.50
1:E:347:PRO:HB3	1:F:427:GLN:HE22	1.76	0.50
1:E:480:ARG:HB3	1:E:570:TRP:CD2	2.46	0.50
1:G:419:PHE:CD2	1:G:684:ARG:HD2	2.47	0.50
1:J:427:GLN:HE22	1:L:347:PRO:HB3	1.76	0.50
1:K:427:GLN:HE22	1:a:347:PRO:HB3	1.77	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:480:ARG:HB3	1:K:570:TRP:CD2	2.46	0.50
1:L:376:MET:O	1:L:389:SER:OG	2.30	0.50
1:L:559:GLU:OE2	1:L:609:TYR:OH	2.24	0.50
1:M:347:PRO:HB3	1:b:427:GLN:HE22	1.77	0.50
1:N:419:PHE:CD2	1:N:684:ARG:HD2	2.47	0.50
1:N:427:GLN:HE22	1:P:347:PRO:HB3	1.77	0.50
1:Q:419:PHE:CD2	1:Q:684:ARG:HD2	2.47	0.50
1:V:419:PHE:CD2	1:V:684:ARG:HD2	2.47	0.50
1:V:427:GLN:HE22	1:e:347:PRO:HB3	1.77	0.50
1:V:448:ASP:OD1	1:V:452:ASN:N	2.44	0.50
1:X:519:ALA:HB3	1:X:568:VAL:HA	1.94	0.50
1:c:347:PRO:HB3	1:p:427:GLN:HE22	1.77	0.50
1:g:711:PRO:HG2	1:l:253:TYR:HB2	1.94	0.50
1:i:347:PRO:HB3	1:k:427:GLN:HE22	1.76	0.50
1:i:555:MET:HB3	1:i:722:LEU:HG	1.94	0.50
1:j:309:PHE:HD1	1:j:677:VAL:HG22	1.76	0.50
1:l:473:GLY:HA3	1:l:603:TRP:HB3	1.94	0.50
1:m:448:ASP:OD1	1:m:452:ASN:N	2.44	0.50
1:m:559:GLU:O	1:m:562:VAL:HG22	2.11	0.50
1:n:555:MET:HB3	1:n:722:LEU:HG	1.94	0.50
1:r:376:MET:O	1:r:389:SER:OG	2.30	0.50
1:s:448:ASP:OD1	1:s:452:ASN:N	2.44	0.50
1:s:519:ALA:HB3	1:s:568:VAL:HA	1.94	0.50
1:v:555:MET:HB3	1:v:722:LEU:HG	1.94	0.50
1:w:347:PRO:HB3	1:y:427:GLN:HE22	1.77	0.50
1:w:473:GLY:HA3	1:w:603:TRP:HB3	1.94	0.50
1:z:253:TYR:HB2	1:4:711:PRO:HG2	1.94	0.50
1:z:519:ALA:HB3	1:z:568:VAL:HA	1.94	0.50
1:z:555:MET:HB3	1:z:722:LEU:HG	1.94	0.50
1:1:473:GLY:HA3	1:1:603:TRP:HB3	1.94	0.50
1:3:473:GLY:HA3	1:3:603:TRP:HB3	1.94	0.50
1:4:480:ARG:HB3	1:4:570:TRP:CD2	2.46	0.50
1:A:347:PRO:HB3	1:I:427:GLN:NE2	2.27	0.50
1:A:347:PRO:HB3	1:I:427:GLN:HE22	1.76	0.50
1:G:427:GLN:HE22	1:I:347:PRO:HB3	1.76	0.50
1:H:309:PHE:HD1	1:H:677:VAL:HG22	1.76	0.50
1:L:519:ALA:HB3	1:L:568:VAL:HA	1.94	0.50
1:M:215:ASP:HB3	1:M:405:GLY:O	2.10	0.50
1:R:376:MET:O	1:R:389:SER:OG	2.30	0.50
1:T:419:PHE:CD2	1:T:684:ARG:HD2	2.47	0.50
1:U:448:ASP:OD1	1:U:452:ASN:N	2.44	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:U:519:ALA:HB3	1:U:568:VAL:HA	1.94	0.50
1:U:555:MET:HB3	1:U:722:LEU:HG	1.94	0.50
1:X:347:PRO:HB3	1:e:427:GLN:HE22	1.77	0.50
1:a:473:GLY:HA3	1:a:603:TRP:HB3	1.94	0.50
1:b:711:PRO:HG2	1:o:253:TYR:HB2	1.94	0.50
1:d:419:PHE:CD2	1:d:684:ARG:HD2	2.47	0.50
1:d:427:GLN:HE22	1:l:347:PRO:HB3	1.77	0.50
1:f:427:GLN:HE22	1:h:347:PRO:HB3	1.77	0.50
1:h:480:ARG:HB3	1:h:570:TRP:CD2	2.46	0.50
1:i:419:PHE:CD2	1:i:684:ARG:HD2	2.47	0.50
1:k:419:PHE:CD2	1:k:684:ARG:HD2	2.47	0.50
1:o:519:ALA:HB3	1:o:568:VAL:HA	1.94	0.50
1:q:376:MET:O	1:q:389:SER:OG	2.30	0.50
1:t:419:PHE:CD2	1:t:684:ARG:HD2	2.47	0.50
1:u:419:PHE:CD2	1:u:684:ARG:HD2	2.47	0.50
1:u:427:GLN:NE2	1:v:347:PRO:HB3	2.27	0.50
1:v:480:ARG:HB3	1:v:570:TRP:CD2	2.46	0.50
1:w:480:ARG:HB3	1:w:570:TRP:CD2	2.46	0.50
1:y:473:GLY:HA3	1:y:603:TRP:HB3	1.94	0.50
1:8:626:HIS:O	1:8:628:SER:N	2.41	0.50
1:A:555:MET:HB3	1:A:722:LEU:HG	1.94	0.49
1:C:559:GLU:OE2	1:C:609:TYR:OH	2.24	0.49
1:D:419:PHE:CD2	1:D:684:ARG:HD2	2.47	0.49
1:E:347:PRO:HB3	1:F:427:GLN:NE2	2.27	0.49
1:E:427:GLN:NE2	1:Q:347:PRO:HB3	2.27	0.49
1:E:473:GLY:HA3	1:E:603:TRP:HB3	1.94	0.49
1:G:559:GLU:O	1:G:562:VAL:HG22	2.11	0.49
1:L:419:PHE:CD2	1:L:684:ARG:HD2	2.47	0.49
1:M:555:MET:HB3	1:M:722:LEU:HG	1.94	0.49
1:P:309:PHE:HD1	1:P:677:VAL:HG22	1.76	0.49
1:S:376:MET:O	1:S:389:SER:OG	2.30	0.49
1:U:419:PHE:CD2	1:U:684:ARG:HD2	2.47	0.49
1:X:253:TYR:HB2	1:f:711:PRO:HG2	1.94	0.49
1:Z:486:GLY:O	1:Z:527:SER:OG	2.27	0.49
1:Z:626:HIS:O	1:Z:628:SER:N	2.41	0.49
1:c:427:GLN:HE22	1:o:347:PRO:HB3	1.77	0.49
1:d:309:PHE:HD1	1:d:677:VAL:HG22	1.76	0.49
1:e:519:ALA:HB3	1:e:568:VAL:HA	1.94	0.49
1:h:555:MET:HB3	1:h:722:LEU:HG	1.94	0.49
1:m:419:PHE:CD2	1:m:684:ARG:HD2	2.47	0.49
1:n:419:PHE:CD2	1:n:684:ARG:HD2	2.47	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:o:711:PRO:HG2	1:7:253:TYR:HB2	1.93	0.49
1:q:448:ASP:OD1	1:q:452:ASN:N	2.44	0.49
1:r:427:GLN:NE2	1:s:347:PRO:HB3	2.27	0.49
1:s:555:MET:HB3	1:s:722:LEU:HG	1.94	0.49
1:t:347:PRO:HB3	1:v:427:GLN:NE2	2.27	0.49
1:t:448:ASP:OD1	1:t:452:ASN:N	2.44	0.49
1:w:427:GLN:NE2	1:x:347:PRO:HB3	2.27	0.49
1:1:480:ARG:HB3	1:1:570:TRP:CD2	2.46	0.49
1:4:419:PHE:CD2	1:4:684:ARG:HD2	2.47	0.49
1:B:480:ARG:HB3	1:B:570:TRP:CD2	2.46	0.49
1:F:347:PRO:HB3	1:Q:427:GLN:NE2	2.27	0.49
1:F:473:GLY:HA3	1:F:603:TRP:HB3	1.94	0.49
1:I:519:ALA:HB3	1:I:568:VAL:HA	1.94	0.49
1:I:555:MET:HB3	1:I:722:LEU:HG	1.94	0.49
1:O:347:PRO:HB3	1:n:427:GLN:HE22	1.77	0.49
1:R:347:PRO:HB3	1:U:427:GLN:NE2	2.27	0.49
1:R:448:ASP:OD1	1:R:452:ASN:N	2.44	0.49
1:S:427:GLN:HE22	1:U:347:PRO:HB3	1.76	0.49
1:S:427:GLN:NE2	1:U:347:PRO:HB3	2.27	0.49
1:W:309:PHE:HD1	1:W:677:VAL:HG22	1.76	0.49
1:W:519:ALA:HB3	1:W:568:VAL:HA	1.94	0.49
1:Z:427:GLN:NE2	1:4:347:PRO:HB3	2.27	0.49
1:a:555:MET:HB3	1:a:722:LEU:HG	1.94	0.49
1:b:473:GLY:HA3	1:b:603:TRP:HB3	1.94	0.49
1:d:555:MET:HB3	1:d:722:LEU:HG	1.94	0.49
1:f:473:GLY:HA3	1:f:603:TRP:HB3	1.94	0.49
1:k:519:ALA:HB3	1:k:568:VAL:HA	1.94	0.49
1:s:419:PHE:CD2	1:s:684:ARG:HD2	2.47	0.49
1:u:519:ALA:HB3	1:u:568:VAL:HA	1.94	0.49
1:w:347:PRO:HB3	1:y:427:GLN:NE2	2.27	0.49
1:w:448:ASP:OD1	1:w:452:ASN:N	2.44	0.49
1:x:427:GLN:NE2	1:y:347:PRO:HB3	2.27	0.49
1:x:519:ALA:HB3	1:x:568:VAL:HA	1.94	0.49
1:1:427:GLN:HE22	1:2:347:PRO:HB3	1.77	0.49
1:3:555:MET:HB3	1:3:722:LEU:HG	1.94	0.49
1:5:309:PHE:HD1	1:5:677:VAL:HG22	1.76	0.49
1:6:448:ASP:OD1	1:6:452:ASN:N	2.44	0.49
1:7:555:MET:HB3	1:7:722:LEU:HG	1.94	0.49
1:D:427:GLN:HE22	1:N:347:PRO:HB3	1.77	0.49
1:D:519:ALA:HB3	1:D:568:VAL:HA	1.94	0.49
1:E:448:ASP:OD1	1:E:452:ASN:N	2.44	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:347:PRO:HB3	1:Q:427:GLN:HE22	1.76	0.49
1:G:448:ASP:OD1	1:G:452:ASN:N	2.44	0.49
1:H:559:GLU:OE2	1:H:609:TYR:OH	2.24	0.49
1:I:486:GLY:O	1:I:527:SER:OG	2.27	0.49
1:K:347:PRO:HB3	1:8:427:GLN:NE2	2.27	0.49
1:K:419:PHE:CD2	1:K:684:ARG:HD2	2.47	0.49
1:K:427:GLN:NE2	1:a:347:PRO:HB3	2.27	0.49
1:K:555:MET:HB3	1:K:722:LEU:HG	1.94	0.49
1:S:626:HIS:O	1:S:628:SER:N	2.41	0.49
1:Y:555:MET:HB3	1:Y:722:LEU:HG	1.94	0.49
1:Z:419:PHE:CD2	1:Z:684:ARG:HD2	2.47	0.49
1:b:555:MET:HB3	1:b:722:LEU:HG	1.94	0.49
1:c:427:GLN:NE2	1:o:347:PRO:HB3	2.28	0.49
1:c:448:ASP:OD1	1:c:452:ASN:N	2.44	0.49
1:c:519:ALA:HB3	1:c:568:VAL:HA	1.94	0.49
1:i:347:PRO:HB3	1:k:427:GLN:NE2	2.27	0.49
1:k:253:TYR:HB2	1:w:711:PRO:HG2	1.93	0.49
1:n:309:PHE:HD1	1:n:677:VAL:HG22	1.76	0.49
1:q:419:PHE:CD2	1:q:684:ARG:HD2	2.47	0.49
1:r:427:GLN:HE22	1:s:347:PRO:HB3	1.76	0.49
1:r:704:ARG:NH2	1:r:706:SER:O	2.46	0.49
1:t:559:GLU:O	1:t:562:VAL:HG22	2.11	0.49
1:u:427:GLN:HE22	1:v:347:PRO:HB3	1.76	0.49
1:u:555:MET:HB3	1:u:722:LEU:HG	1.94	0.49
1:w:248:TYR:OH	1:w:368:LEU:O	2.26	0.49
1:x:427:GLN:HE22	1:y:347:PRO:HB3	1.76	0.49
1:z:419:PHE:CD2	1:z:684:ARG:HD2	2.47	0.49
1:6:309:PHE:HD1	1:6:677:VAL:HG22	1.76	0.49
1:E:248:TYR:OH	1:E:368:LEU:O	2.26	0.49
1:E:555:MET:HB3	1:E:722:LEU:HG	1.94	0.49
1:F:704:ARG:NH2	1:F:706:SER:O	2.46	0.49
1:H:473:GLY:HA3	1:H:603:TRP:HB3	1.94	0.49
1:M:704:ARG:NH2	1:M:706:SER:O	2.46	0.49
1:O:309:PHE:HD1	1:O:677:VAL:HG22	1.76	0.49
1:Q:519:ALA:HB3	1:Q:568:VAL:HA	1.94	0.49
1:R:419:PHE:CD2	1:R:684:ARG:HD2	2.47	0.49
1:S:704:ARG:NH2	1:S:706:SER:O	2.46	0.49
1:T:347:PRO:HB3	1:l:427:GLN:NE2	2.27	0.49
1:W:448:ASP:OD1	1:W:452:ASN:N	2.44	0.49
1:X:347:PRO:HB3	1:e:427:GLN:NE2	2.28	0.49
1:X:704:ARG:NH2	1:X:706:SER:O	2.46	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Z:347:PRO:HB3	1:3:427:GLN:HE22	1.77	0.49
1:Z:555:MET:HB3	1:Z:722:LEU:HG	1.94	0.49
1:a:427:GLN:HE22	1:8:347:PRO:HB3	1.77	0.49
1:e:376:MET:O	1:e:389:SER:OG	2.30	0.49
1:e:448:ASP:OD1	1:e:452:ASN:N	2.44	0.49
1:f:555:MET:HB3	1:f:722:LEU:HG	1.94	0.49
1:h:704:ARG:NH2	1:h:706:SER:O	2.46	0.49
1:j:519:ALA:HB3	1:j:568:VAL:HA	1.94	0.49
1:m:486:GLY:O	1:m:527:SER:OG	2.27	0.49
1:o:704:ARG:NH2	1:o:706:SER:O	2.46	0.49
1:q:347:PRO:HB3	1:s:427:GLN:NE2	2.27	0.49
1:w:555:MET:HB3	1:w:722:LEU:HG	1.94	0.49
1:x:555:MET:HB3	1:x:722:LEU:HG	1.94	0.49
1:y:376:MET:O	1:y:389:SER:OG	2.30	0.49
1:y:704:ARG:NH2	1:y:706:SER:O	2.46	0.49
1:1:555:MET:HB3	1:1:722:LEU:HG	1.94	0.49
1:3:347:PRO:HB3	1:4:427:GLN:NE2	2.27	0.49
1:5:473:GLY:HA3	1:5:603:TRP:HB3	1.94	0.49
1:6:519:ALA:HB3	1:6:568:VAL:HA	1.94	0.49
1:8:419:PHE:CD2	1:8:684:ARG:HD2	2.47	0.49
1:8:555:MET:HB3	1:8:722:LEU:HG	1.94	0.49
1:A:519:ALA:HB3	1:A:568:VAL:HA	1.94	0.49
1:A:704:ARG:NH2	1:A:706:SER:O	2.46	0.49
1:A:711:PRO:HG2	1:E:253:TYR:HB2	1.93	0.49
1:B:555:MET:HB3	1:B:722:LEU:HG	1.94	0.49
1:C:253:TYR:HB2	1:D:711:PRO:HG2	1.93	0.49
1:D:704:ARG:NH2	1:D:706:SER:O	2.46	0.49
1:O:555:MET:HB3	1:O:722:LEU:HG	1.94	0.49
1:P:473:GLY:HA3	1:P:603:TRP:HB3	1.94	0.49
1:P:519:ALA:HB3	1:P:568:VAL:HA	1.94	0.49
1:U:376:MET:O	1:U:389:SER:OG	2.30	0.49
1:U:711:PRO:HG2	1:e:253:TYR:HB2	1.94	0.49
1:b:419:PHE:CD2	1:b:684:ARG:HD2	2.47	0.49
1:b:486:GLY:O	1:b:527:SER:OG	2.27	0.49
1:f:419:PHE:CD2	1:f:684:ARG:HD2	2.47	0.49
1:g:419:PHE:CD2	1:g:684:ARG:HD2	2.47	0.49
1:g:704:ARG:NH2	1:g:706:SER:O	2.46	0.49
1:i:448:ASP:OD1	1:i:452:ASN:N	2.44	0.49
1:j:473:GLY:HA3	1:j:603:TRP:HB3	1.94	0.49
1:k:704:ARG:NH2	1:k:706:SER:O	2.46	0.49
1:l:309:PHE:HD1	1:l:677:VAL:HG22	1.76	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:l:555:MET:HB3	1:l:722:LEU:HG	1.94	0.49
1:r:626:HIS:O	1:r:628:SER:N	2.41	0.49
1:u:486:GLY:O	1:u:527:SER:OG	2.27	0.49
1:v:704:ARG:NH2	1:v:706:SER:O	2.46	0.49
1:v:711:PRO:HG2	1:w:253:TYR:HB2	1.93	0.49
1:z:704:ARG:NH2	1:z:706:SER:O	2.46	0.49
1:2:448:ASP:OD1	1:2:452:ASN:N	2.44	0.49
1:4:555:MET:HB3	1:4:722:LEU:HG	1.94	0.49
1:7:704:ARG:NH2	1:7:706:SER:O	2.46	0.49
1:C:419:PHE:CD2	1:C:684:ARG:HD2	2.47	0.49
1:C:704:ARG:NH2	1:C:706:SER:O	2.46	0.49
1:D:253:TYR:HB2	1:E:711:PRO:HG2	1.94	0.49
1:D:427:GLN:NE2	1:N:347:PRO:HB3	2.28	0.49
1:F:376:MET:O	1:F:389:SER:OG	2.30	0.49
1:J:448:ASP:OD1	1:J:452:ASN:N	2.44	0.49
1:K:271:TYR:HE2	1:7:707:ILE:HD12	1.77	0.49
1:K:448:ASP:OD1	1:K:452:ASN:N	2.44	0.49
1:L:704:ARG:NH2	1:L:706:SER:O	2.46	0.49
1:M:253:TYR:HB2	1:c:711:PRO:HG2	1.94	0.49
1:N:448:ASP:OD1	1:N:452:ASN:N	2.44	0.49
1:N:480:ARG:HB3	1:N:570:TRP:CD2	2.46	0.49
1:O:427:GLN:NE2	1:m:347:PRO:HB3	2.27	0.49
1:Q:448:ASP:OD1	1:Q:452:ASN:N	2.44	0.49
1:Q:555:MET:HB3	1:Q:722:LEU:HG	1.94	0.49
1:T:711:PRO:HG2	1:U:253:TYR:HB2	1.94	0.49
1:W:248:TYR:OH	1:W:368:LEU:O	2.26	0.49
1:X:473:GLY:HA3	1:X:603:TRP:HB3	1.94	0.49
1:Y:704:ARG:NH2	1:Y:706:SER:O	2.46	0.49
1:c:253:TYR:HB2	1:s:711:PRO:HG2	1.94	0.49
1:c:347:PRO:HB3	1:p:427:GLN:NE2	2.28	0.49
1:c:376:MET:O	1:c:389:SER:OG	2.30	0.49
1:c:555:MET:HB3	1:c:722:LEU:HG	1.94	0.49
1:i:427:GLN:NE2	1:j:347:PRO:HB3	2.28	0.49
1:m:473:GLY:HA3	1:m:603:TRP:HB3	1.94	0.49
1:m:711:PRO:HG2	1:s:253:TYR:HB2	1.94	0.49
1:5:427:GLN:HE22	1:6:347:PRO:HB3	1.77	0.49
1:5:704:ARG:NH2	1:5:706:SER:O	2.46	0.49
1:8:559:GLU:OE2	1:8:609:TYR:OH	2.24	0.49
1:B:427:GLN:NE2	1:J:347:PRO:HB3	2.28	0.49
1:D:347:PRO:HB3	1:P:427:GLN:NE2	2.28	0.49
1:E:263:ASP:O	1:E:267:GLN:HG3	2.13	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:376:MET:O	1:G:389:SER:OG	2.30	0.49
1:H:263:ASP:O	1:H:267:GLN:HG3	2.13	0.49
1:H:427:GLN:HE22	1:W:347:PRO:HB3	1.77	0.49
1:H:704:ARG:NH2	1:H:706:SER:O	2.46	0.49
1:K:246:PRO:HB3	1:L:654:PRO:HG2	1.95	0.49
1:N:263:ASP:O	1:N:267:GLN:HG3	2.13	0.49
1:N:711:PRO:HG2	1:m:253:TYR:HB2	1.94	0.49
1:R:555:MET:HB3	1:R:722:LEU:HG	1.94	0.49
1:S:309:PHE:HD1	1:S:677:VAL:HG22	1.76	0.49
1:T:473:GLY:HA3	1:T:603:TRP:HB3	1.94	0.49
1:V:427:GLN:NE2	1:e:347:PRO:HB3	2.28	0.49
1:X:246:PRO:HB3	1:Y:654:PRO:HG2	1.95	0.49
1:Z:704:ARG:NH2	1:Z:706:SER:O	2.46	0.49
1:e:711:PRO:HG2	1:h:253:TYR:HB2	1.94	0.49
1:f:486:GLY:O	1:f:527:SER:OG	2.27	0.49
1:f:519:ALA:HB3	1:f:568:VAL:HA	1.94	0.49
1:h:309:PHE:HD1	1:h:677:VAL:HG22	1.76	0.49
1:h:711:PRO:HG2	1:i:253:TYR:HB2	1.94	0.49
1:i:263:ASP:O	1:i:267:GLN:HG3	2.13	0.49
1:m:704:ARG:NH2	1:m:706:SER:O	2.46	0.49
1:v:519:ALA:HB3	1:v:568:VAL:HA	1.94	0.49
1:A:246:PRO:HB3	1:E:654:PRO:HG2	1.95	0.49
1:A:486:GLY:O	1:A:527:SER:OG	2.27	0.49
1:E:704:ARG:NH2	1:E:706:SER:O	2.46	0.49
1:G:704:ARG:NH2	1:G:706:SER:O	2.46	0.49
1:M:711:PRO:HG2	1:N:253:TYR:HB2	1.94	0.49
1:O:427:GLN:HE22	1:m:347:PRO:HB3	1.76	0.49
1:R:704:ARG:NH2	1:R:706:SER:O	2.46	0.49
1:T:253:TYR:HB2	1:i:711:PRO:HG2	1.94	0.49
1:T:263:ASP:O	1:T:267:GLN:HG3	2.13	0.49
1:T:704:ARG:NH2	1:T:706:SER:O	2.46	0.49
1:V:253:TYR:HB2	1:W:711:PRO:HG2	1.93	0.49
1:V:263:ASP:O	1:V:267:GLN:HG3	2.13	0.49
1:V:309:PHE:HD1	1:V:677:VAL:HG22	1.76	0.49
1:V:704:ARG:NH2	1:V:706:SER:O	2.46	0.49
1:a:626:HIS:O	1:a:628:SER:N	2.41	0.49
1:b:519:ALA:HB3	1:b:568:VAL:HA	1.94	0.49
1:c:419:PHE:CD2	1:c:684:ARG:HD2	2.47	0.49
1:e:419:PHE:CD2	1:e:684:ARG:HD2	2.47	0.49
1:f:427:GLN:NE2	1:h:347:PRO:HB3	2.28	0.49
1:h:419:PHE:CD2	1:h:684:ARG:HD2	2.47	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:h:519:ALA:HB3	1:h:568:VAL:HA	1.94	0.49
1:p:704:ARG:NH2	1:p:706:SER:O	2.46	0.49
1:q:555:MET:HB3	1:q:722:LEU:HG	1.94	0.49
1:r:519:ALA:HB3	1:r:568:VAL:HA	1.94	0.49
1:v:654:PRO:HG2	1:l:246:PRO:HB3	1.95	0.49
1:w:263:ASP:O	1:w:267:GLN:HG3	2.13	0.49
1:z:654:PRO:HG2	1:4:246:PRO:HB3	1.95	0.49
1:4:704:ARG:NH2	1:4:706:SER:O	2.46	0.49
1:5:263:ASP:O	1:5:267:GLN:HG3	2.13	0.49
1:5:347:PRO:HB3	1:7:427:GLN:NE2	2.28	0.49
1:5:519:ALA:HB3	1:5:568:VAL:HA	1.94	0.49
1:6:427:GLN:HE22	1:7:347:PRO:HB3	1.76	0.49
1:8:704:ARG:NH2	1:8:706:SER:O	2.46	0.49
1:B:448:ASP:OD1	1:B:452:ASN:N	2.44	0.49
1:F:263:ASP:O	1:F:267:GLN:HG3	2.13	0.49
1:G:246:PRO:HB3	1:W:654:PRO:HG2	1.95	0.49
1:H:519:ALA:HB3	1:H:568:VAL:HA	1.94	0.49
1:I:263:ASP:O	1:I:267:GLN:HG3	2.13	0.49
1:I:704:ARG:NH2	1:I:706:SER:O	2.46	0.49
1:J:263:ASP:O	1:J:267:GLN:HG3	2.13	0.49
1:J:427:GLN:NE2	1:L:347:PRO:HB3	2.27	0.49
1:J:704:ARG:NH2	1:J:706:SER:O	2.46	0.49
1:K:704:ARG:NH2	1:K:706:SER:O	2.46	0.49
1:L:448:ASP:OD1	1:L:452:ASN:N	2.44	0.49
1:L:711:PRO:HG2	1:b:253:TYR:HB2	1.94	0.49
1:M:263:ASP:O	1:M:267:GLN:HG3	2.13	0.49
1:M:347:PRO:HB3	1:b:427:GLN:NE2	2.28	0.49
1:M:419:PHE:CD2	1:M:684:ARG:HD2	2.47	0.49
1:P:555:MET:HB3	1:P:722:LEU:HG	1.94	0.49
1:R:253:TYR:HB2	1:V:711:PRO:HG2	1.94	0.49
1:W:427:GLN:NE2	1:Y:347:PRO:HB3	2.28	0.49
1:W:427:GLN:HE22	1:Y:347:PRO:HB3	1.76	0.49
1:W:555:MET:HB3	1:W:722:LEU:HG	1.94	0.49
1:Y:519:ALA:HB3	1:Y:568:VAL:HA	1.94	0.49
1:Z:263:ASP:O	1:Z:267:GLN:HG3	2.13	0.49
1:a:704:ARG:NH2	1:a:706:SER:O	2.46	0.49
1:c:473:GLY:HA3	1:c:603:TRP:HB3	1.94	0.49
1:e:555:MET:HB3	1:e:722:LEU:HG	1.94	0.49
1:g:253:TYR:HB2	1:k:711:PRO:HG2	1.93	0.49
1:h:263:ASP:O	1:h:267:GLN:HG3	2.13	0.49
1:i:480:ARG:HB3	1:i:570:TRP:CD2	2.46	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:j:555:MET:HB3	1:j:722:LEU:HG	1.94	0.49
1:k:654:PRO:HG2	1:w:246:PRO:HB3	1.95	0.49
1:l:704:ARG:NH2	1:l:706:SER:O	2.46	0.49
1:m:263:ASP:O	1:m:267:GLN:HG3	2.13	0.49
1:n:704:ARG:NH2	1:n:706:SER:O	2.46	0.49
1:o:427:GLN:NE2	1:p:347:PRO:HB3	2.28	0.49
1:o:473:GLY:HA3	1:o:603:TRP:HB3	1.94	0.49
1:p:253:TYR:HB2	1:6:711:PRO:HG2	1.93	0.49
1:p:263:ASP:O	1:p:267:GLN:HG3	2.13	0.49
1:p:309:PHE:HD1	1:p:677:VAL:HG22	1.76	0.49
1:q:704:ARG:NH2	1:q:706:SER:O	2.46	0.49
1:r:309:PHE:HD1	1:r:677:VAL:HG22	1.76	0.49
1:r:419:PHE:CD2	1:r:684:ARG:HD2	2.47	0.49
1:t:246:PRO:HB3	1:6:654:PRO:HG2	1.95	0.49
1:t:376:MET:O	1:t:389:SER:OG	2.30	0.49
1:t:704:ARG:NH2	1:t:706:SER:O	2.46	0.49
1:u:704:ARG:NH2	1:u:706:SER:O	2.46	0.49
1:v:246:PRO:HB3	1:w:654:PRO:HG2	1.95	0.49
1:w:704:ARG:NH2	1:w:706:SER:O	2.46	0.49
1:y:263:ASP:O	1:y:267:GLN:HG3	2.13	0.49
1:z:448:ASP:OD1	1:z:452:ASN:N	2.44	0.49
1:1:427:GLN:NE2	1:2:347:PRO:HB3	2.28	0.49
1:1:448:ASP:OD1	1:1:452:ASN:N	2.44	0.49
1:2:704:ARG:NH2	1:2:706:SER:O	2.46	0.49
1:4:448:ASP:OD1	1:4:452:ASN:N	2.44	0.49
1:5:486:GLY:O	1:5:527:SER:OG	2.27	0.49
1:6:555:MET:HB3	1:6:722:LEU:HG	1.94	0.49
1:D:376:MET:O	1:D:389:SER:OG	2.30	0.49
1:D:555:MET:HB3	1:D:722:LEU:HG	1.94	0.49
1:D:654:PRO:HG2	1:E:246:PRO:HB3	1.95	0.49
1:H:246:PRO:HB3	1:I:654:PRO:HG2	1.95	0.49
1:H:348:TYR:CZ	1:H:350:LEU:HB2	2.48	0.49
1:H:486:GLY:O	1:H:527:SER:OG	2.27	0.49
1:I:348:TYR:CZ	1:I:350:LEU:HB2	2.48	0.49
1:K:347:PRO:HB3	1:8:427:GLN:HE22	1.77	0.49
1:M:309:PHE:HD1	1:M:677:VAL:HG22	1.76	0.49
1:N:427:GLN:NE2	1:P:347:PRO:HB3	2.28	0.49
1:O:347:PRO:HB3	1:n:427:GLN:NE2	2.28	0.49
1:S:519:ALA:HB3	1:S:568:VAL:HA	1.94	0.49
1:T:347:PRO:HB3	1:l:427:GLN:HE22	1.76	0.49
1:T:348:TYR:CZ	1:T:350:LEU:HB2	2.48	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:T:519:ALA:HB3	1:T:568:VAL:HA	1.94	0.49
1:Z:427:GLN:HE22	1:4:347:PRO:HB3	1.76	0.49
1:Z:559:GLU:OE2	1:Z:609:TYR:OH	2.24	0.49
1:c:704:ARG:NH2	1:c:706:SER:O	2.46	0.49
1:d:263:ASP:O	1:d:267:GLN:HG3	2.13	0.49
1:d:427:GLN:NE2	1:l:347:PRO:HB3	2.28	0.49
1:d:704:ARG:NH2	1:d:706:SER:O	2.46	0.49
1:e:473:GLY:HA3	1:e:603:TRP:HB3	1.94	0.49
1:f:253:TYR:HB2	1:z:711:PRO:HG2	1.94	0.49
1:j:704:ARG:NH2	1:j:706:SER:O	2.46	0.49
1:k:448:ASP:OD1	1:k:452:ASN:N	2.44	0.49
1:l:654:PRO:HG2	1:n:246:PRO:HB3	1.95	0.49
1:m:519:ALA:HB3	1:m:568:VAL:HA	1.94	0.49
1:o:448:ASP:OD1	1:o:452:ASN:N	2.44	0.49
1:p:555:MET:HB3	1:p:722:LEU:HG	1.94	0.49
1:q:519:ALA:HB3	1:q:568:VAL:HA	1.94	0.49
1:t:263:ASP:O	1:t:267:GLN:HG3	2.13	0.49
1:u:263:ASP:O	1:u:267:GLN:HG3	2.13	0.49
1:u:348:TYR:CZ	1:u:350:LEU:HB2	2.48	0.49
1:v:448:ASP:OD1	1:v:452:ASN:N	2.44	0.49
1:w:419:PHE:CD2	1:w:684:ARG:HD2	2.47	0.49
1:y:448:ASP:OD1	1:y:452:ASN:N	2.44	0.49
1:2:263:ASP:O	1:2:267:GLN:HG3	2.13	0.49
1:4:263:ASP:O	1:4:267:GLN:HG3	2.13	0.49
1:5:348:TYR:CZ	1:5:350:LEU:HB2	2.48	0.49
1:5:376:MET:O	1:5:389:SER:OG	2.30	0.49
1:7:519:ALA:HB3	1:7:568:VAL:HA	1.94	0.49
1:8:263:ASP:O	1:8:267:GLN:HG3	2.13	0.49
1:A:376:MET:O	1:A:389:SER:OG	2.30	0.48
1:A:448:ASP:OD1	1:A:452:ASN:N	2.44	0.48
1:A:654:PRO:HG2	1:B:246:PRO:HB3	1.95	0.48
1:D:263:ASP:O	1:D:267:GLN:HG3	2.13	0.48
1:D:348:TYR:CZ	1:D:350:LEU:HB2	2.48	0.48
1:D:448:ASP:OD1	1:D:452:ASN:N	2.44	0.48
1:E:419:PHE:CD2	1:E:684:ARG:HD2	2.47	0.48
1:F:246:PRO:HB3	1:G:654:PRO:HG2	1.95	0.48
1:F:448:ASP:OD1	1:F:452:ASN:N	2.44	0.48
1:G:263:ASP:O	1:G:267:GLN:HG3	2.13	0.48
1:H:376:MET:O	1:H:389:SER:OG	2.30	0.48
1:K:473:GLY:HA3	1:K:603:TRP:HB3	1.94	0.48
1:K:519:ALA:HB3	1:K:568:VAL:HA	1.94	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:704:ARG:NH2	1:N:706:SER:O	2.46	0.48
1:O:654:PRO:HG2	1:d:246:PRO:HB3	1.96	0.48
1:O:704:ARG:NH2	1:O:706:SER:O	2.46	0.48
1:P:704:ARG:NH2	1:P:706:SER:O	2.46	0.48
1:S:419:PHE:CD2	1:S:684:ARG:HD2	2.47	0.48
1:T:555:MET:HB3	1:T:722:LEU:HG	1.94	0.48
1:V:347:PRO:HB3	1:X:427:GLN:NE2	2.28	0.48
1:W:581:GLN:H	1:Y:479:GLN:NE2	2.11	0.48
1:X:448:ASP:OD1	1:X:452:ASN:N	2.44	0.48
1:X:555:MET:HB3	1:X:722:LEU:HG	1.94	0.48
1:Y:263:ASP:O	1:Y:267:GLN:HG3	2.13	0.48
1:Y:348:TYR:CZ	1:Y:350:LEU:HB2	2.48	0.48
1:Y:419:PHE:CD2	1:Y:684:ARG:HD2	2.47	0.48
1:d:448:ASP:OD1	1:d:452:ASN:N	2.44	0.48
1:e:704:ARG:NH2	1:e:706:SER:O	2.46	0.48
1:f:263:ASP:O	1:f:267:GLN:HG3	2.13	0.48
1:g:347:PRO:HB3	1:h:427:GLN:NE2	2.28	0.48
1:i:704:ARG:NH2	1:i:706:SER:O	2.46	0.48
1:j:427:GLN:NE2	1:k:347:PRO:HB3	2.28	0.48
1:j:654:PRO:HG2	1:l:246:PRO:HB3	1.95	0.48
1:k:263:ASP:O	1:k:267:GLN:HG3	2.13	0.48
1:k:348:TYR:CZ	1:k:350:LEU:HB2	2.48	0.48
1:k:376:MET:O	1:k:389:SER:OG	2.30	0.48
1:k:555:MET:HB3	1:k:722:LEU:HG	1.94	0.48
1:m:348:TYR:CZ	1:m:350:LEU:HB2	2.48	0.48
1:o:555:MET:HB3	1:o:722:LEU:HG	1.94	0.48
1:s:263:ASP:O	1:s:267:GLN:HG3	2.13	0.48
1:t:654:PRO:HG2	1:y:246:PRO:HB3	1.95	0.48
1:v:486:GLY:O	1:v:527:SER:OG	2.27	0.48
1:x:376:MET:O	1:x:389:SER:OG	2.30	0.48
1:3:448:ASP:OD1	1:3:452:ASN:N	2.44	0.48
1:3:704:ARG:NH2	1:3:706:SER:O	2.46	0.48
1:6:427:GLN:NE2	1:7:347:PRO:HB3	2.28	0.48
1:7:348:TYR:CZ	1:7:350:LEU:HB2	2.48	0.48
1:A:348:TYR:CZ	1:A:350:LEU:HB2	2.48	0.48
1:F:559:GLU:OE2	1:F:609:TYR:OH	2.24	0.48
1:G:427:GLN:NE2	1:I:347:PRO:HB3	2.27	0.48
1:G:555:MET:HB3	1:G:722:LEU:HG	1.94	0.48
1:K:263:ASP:O	1:K:267:GLN:HG3	2.13	0.48
1:M:519:ALA:HB3	1:M:568:VAL:HA	1.94	0.48
1:P:348:TYR:CZ	1:P:350:LEU:HB2	2.48	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Q:348:TYR:CZ	1:Q:350:LEU:HB2	2.48	0.48
1:R:519:ALA:HB3	1:R:568:VAL:HA	1.94	0.48
1:U:263:ASP:O	1:U:267:GLN:HG3	2.13	0.48
1:U:348:TYR:CZ	1:U:350:LEU:HB2	2.48	0.48
1:U:704:ARG:NH2	1:U:706:SER:O	2.46	0.48
1:W:704:ARG:NH2	1:W:706:SER:O	2.46	0.48
1:c:278:PHE:HD1	1:c:366:TYR:HH	1.60	0.48
1:d:348:TYR:CZ	1:d:350:LEU:HB2	2.48	0.48
1:d:473:GLY:HA3	1:d:603:TRP:HB3	1.94	0.48
1:m:555:MET:HB3	1:m:722:LEU:HG	1.94	0.48
1:n:263:ASP:O	1:n:267:GLN:HG3	2.13	0.48
1:n:448:ASP:OD1	1:n:452:ASN:N	2.44	0.48
1:n:473:GLY:HA3	1:n:603:TRP:HB3	1.94	0.48
1:p:711:PRO:HG2	1:q:253:TYR:HB2	1.94	0.48
1:s:348:TYR:CZ	1:s:350:LEU:HB2	2.48	0.48
1:v:348:TYR:CZ	1:v:350:LEU:HB2	2.48	0.48
1:v:376:MET:O	1:v:389:SER:OG	2.30	0.48
1:x:448:ASP:OD1	1:x:452:ASN:N	2.44	0.48
1:z:347:PRO:HB3	1:2:427:GLN:NE2	2.27	0.48
1:3:626:HIS:O	1:3:628:SER:N	2.41	0.48
1:4:519:ALA:HB3	1:4:568:VAL:HA	1.94	0.48
1:5:479:GLN:NE2	1:7:581:GLN:H	2.11	0.48
1:7:419:PHE:CD2	1:7:684:ARG:HD2	2.47	0.48
1:7:448:ASP:OD1	1:7:452:ASN:N	2.44	0.48
1:A:263:ASP:O	1:A:267:GLN:HG3	2.13	0.48
1:F:654:PRO:HG2	1:R:246:PRO:HB3	1.95	0.48
1:G:348:TYR:CZ	1:G:350:LEU:HB2	2.48	0.48
1:H:347:PRO:HB3	1:Y:427:GLN:NE2	2.28	0.48
1:N:348:TYR:CZ	1:N:350:LEU:HB2	2.48	0.48
1:O:246:PRO:HB3	1:P:654:PRO:HG2	1.95	0.48
1:O:348:TYR:CZ	1:O:350:LEU:HB2	2.48	0.48
1:Q:263:ASP:O	1:Q:267:GLN:HG3	2.13	0.48
1:Q:473:GLY:HA3	1:Q:603:TRP:HB3	1.94	0.48
1:Q:626:HIS:O	1:Q:628:SER:N	2.41	0.48
1:S:555:MET:HB3	1:S:722:LEU:HG	1.94	0.48
1:U:239:THR:HG1	1:U:241:ARG:HH12	1.58	0.48
1:U:473:GLY:HA3	1:U:603:TRP:HB3	1.94	0.48
1:V:271:TYR:HE2	1:W:707:ILE:HD12	1.78	0.48
1:V:555:MET:HB3	1:V:722:LEU:HG	1.94	0.48
1:X:711:PRO:HG2	1:Y:253:TYR:HB2	1.94	0.48
1:Y:448:ASP:OD1	1:Y:452:ASN:N	2.44	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:a:448:ASP:OD1	1:a:452:ASN:N	2.44	0.48
1:b:263:ASP:O	1:b:267:GLN:HG3	2.13	0.48
1:c:348:TYR:CZ	1:c:350:LEU:HB2	2.48	0.48
1:f:347:PRO:HB3	1:g:427:GLN:NE2	2.28	0.48
1:i:348:TYR:CZ	1:i:350:LEU:HB2	2.48	0.48
1:j:348:TYR:CZ	1:j:350:LEU:HB2	2.48	0.48
1:m:427:GLN:NE2	1:n:347:PRO:HB3	2.27	0.48
1:o:626:HIS:O	1:o:628:SER:N	2.41	0.48
1:p:271:TYR:HE2	1:6:707:ILE:HD12	1.78	0.48
1:p:486:GLY:O	1:p:527:SER:OG	2.27	0.48
1:q:427:GLN:NE2	1:r:347:PRO:HB3	2.28	0.48
1:s:704:ARG:NH2	1:s:706:SER:O	2.46	0.48
1:t:555:MET:HB3	1:t:722:LEU:HG	1.94	0.48
1:y:519:ALA:HB3	1:y:568:VAL:HA	1.94	0.48
1:z:626:HIS:O	1:z:628:SER:N	2.41	0.48
1:1:704:ARG:NH2	1:1:706:SER:O	2.46	0.48
1:6:704:ARG:NH2	1:6:706:SER:O	2.46	0.48
1:7:263:ASP:O	1:7:267:GLN:HG3	2.13	0.48
1:B:704:ARG:NH2	1:B:706:SER:O	2.46	0.48
1:E:519:ALA:HB3	1:E:568:VAL:HA	1.94	0.48
1:F:519:ALA:HB3	1:F:568:VAL:HA	1.94	0.48
1:J:348:TYR:CZ	1:J:350:LEU:HB2	2.48	0.48
1:M:246:PRO:HB3	1:N:654:PRO:HG2	1.95	0.48
1:M:348:TYR:CZ	1:M:350:LEU:HB2	2.48	0.48
1:M:448:ASP:OD1	1:M:452:ASN:N	2.44	0.48
1:Q:376:MET:O	1:Q:389:SER:OG	2.30	0.48
1:R:427:GLN:NE2	1:S:347:PRO:HB3	2.28	0.48
1:T:427:GLN:NE2	1:d:347:PRO:HB3	2.27	0.48
1:Z:347:PRO:HB3	1:3:427:GLN:NE2	2.28	0.48
1:b:348:TYR:CZ	1:b:350:LEU:HB2	2.48	0.48
1:e:348:TYR:CZ	1:e:350:LEU:HB2	2.48	0.48
1:f:348:TYR:CZ	1:f:350:LEU:HB2	2.48	0.48
1:h:246:PRO:HB3	1:i:654:PRO:HG2	1.95	0.48
1:h:348:TYR:CZ	1:h:350:LEU:HB2	2.48	0.48
1:h:473:GLY:HA3	1:h:603:TRP:HB3	1.94	0.48
1:i:479:GLN:NE2	1:k:581:GLN:H	2.11	0.48
1:l:348:TYR:CZ	1:l:350:LEU:HB2	2.48	0.48
1:n:348:TYR:CZ	1:n:350:LEU:HB2	2.48	0.48
1:q:246:PRO:HB3	1:y:654:PRO:HG2	1.95	0.48
1:s:473:GLY:HA3	1:s:603:TRP:HB3	1.94	0.48
1:t:348:TYR:CZ	1:t:350:LEU:HB2	2.48	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:t:427:GLN:NE2	1:u:347:PRO:HB3	2.27	0.48
1:u:654:PRO:HG2	1:5:246:PRO:HB3	1.95	0.48
1:v:263:ASP:O	1:v:267:GLN:HG3	2.13	0.48
1:x:348:TYR:CZ	1:x:350:LEU:HB2	2.48	0.48
1:x:473:GLY:HA3	1:x:603:TRP:HB3	1.94	0.48
1:y:559:GLU:OE2	1:y:609:TYR:OH	2.24	0.48
1:z:473:GLY:HA3	1:z:603:TRP:HB3	1.94	0.48
1:4:473:GLY:HA3	1:4:603:TRP:HB3	1.94	0.48
1:6:263:ASP:O	1:6:267:GLN:HG3	2.13	0.48
1:C:347:PRO:HB3	1:M:427:GLN:NE2	2.28	0.48
1:C:427:GLN:NE2	1:b:347:PRO:HB3	2.28	0.48
1:H:555:MET:HB3	1:H:722:LEU:HG	1.94	0.48
1:J:555:MET:HB3	1:J:722:LEU:HG	1.94	0.48
1:M:473:GLY:HA3	1:M:603:TRP:HB3	1.94	0.48
1:Q:704:ARG:NH2	1:Q:706:SER:O	2.46	0.48
1:R:348:TYR:CZ	1:R:350:LEU:HB2	2.48	0.48
1:V:486:GLY:O	1:V:527:SER:OG	2.27	0.48
1:W:263:ASP:O	1:W:267:GLN:HG3	2.13	0.48
1:a:427:GLN:NE2	1:8:347:PRO:HB3	2.27	0.48
1:e:263:ASP:O	1:e:267:GLN:HG3	2.13	0.48
1:f:654:PRO:HG2	1:z:246:PRO:HB3	1.96	0.48
1:h:448:ASP:OD1	1:h:452:ASN:N	2.44	0.48
1:o:486:GLY:O	1:o:527:SER:OG	2.27	0.48
1:p:246:PRO:HB3	1:q:654:PRO:HG2	1.95	0.48
1:r:448:ASP:OD1	1:r:452:ASN:N	2.44	0.48
1:w:519:ALA:HB3	1:w:568:VAL:HA	1.94	0.48
1:x:263:ASP:O	1:x:267:GLN:HG3	2.13	0.48
1:x:626:HIS:O	1:x:628:SER:N	2.41	0.48
1:y:348:TYR:CZ	1:y:350:LEU:HB2	2.48	0.48
1:2:348:TYR:CZ	1:2:350:LEU:HB2	2.48	0.48
1:2:555:MET:HB3	1:2:722:LEU:HG	1.94	0.48
1:7:376:MET:O	1:7:389:SER:OG	2.30	0.48
1:L:246:PRO:HB3	1:b:654:PRO:HG2	1.95	0.48
1:L:473:GLY:HA3	1:L:603:TRP:HB3	1.94	0.48
1:L:626:HIS:O	1:L:628:SER:N	2.41	0.48
1:N:559:GLU:OE2	1:N:609:TYR:OH	2.24	0.48
1:R:520:THR:O	1:R:530:PRO:HD3	2.14	0.48
1:R:654:PRO:HG2	1:V:246:PRO:HB3	1.95	0.48
1:S:246:PRO:HB3	1:d:654:PRO:HG2	1.95	0.48
1:T:246:PRO:HB3	1:U:654:PRO:HG2	1.95	0.48
1:W:348:TYR:CZ	1:W:350:LEU:HB2	2.48	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:X:486:GLY:O	1:X:527:SER:OG	2.27	0.48
1:X:626:HIS:O	1:X:628:SER:N	2.41	0.48
1:Y:246:PRO:HB3	1:4:654:PRO:HG2	1.96	0.48
1:i:559:GLU:OE2	1:i:609:TYR:OH	2.24	0.48
1:m:246:PRO:HB3	1:s:654:PRO:HG2	1.95	0.48
1:n:654:PRO:HG2	1:r:246:PRO:HB3	1.95	0.48
1:q:348:TYR:CZ	1:q:350:LEU:HB2	2.48	0.48
1:q:427:GLN:HE22	1:r:347:PRO:HB3	1.77	0.48
1:r:555:MET:HB3	1:r:722:LEU:HG	1.94	0.48
1:5:555:MET:HB3	1:5:722:LEU:HG	1.94	0.48
1:5:559:GLU:OE2	1:5:609:TYR:OH	2.24	0.48
1:6:581:GLN:H	1:7:479:GLN:NE2	2.12	0.48
1:B:263:ASP:O	1:B:267:GLN:HG3	2.13	0.48
1:F:348:TYR:CZ	1:F:350:LEU:HB2	2.48	0.48
1:K:559:GLU:OE2	1:K:609:TYR:OH	2.24	0.48
1:M:654:PRO:HG2	1:c:246:PRO:HB3	1.95	0.48
1:S:448:ASP:OD1	1:S:452:ASN:N	2.44	0.48
1:U:520:THR:O	1:U:530:PRO:HD3	2.14	0.48
1:Y:376:MET:O	1:Y:389:SER:OG	2.30	0.48
1:a:263:ASP:O	1:a:267:GLN:HG3	2.13	0.48
1:c:263:ASP:O	1:c:267:GLN:HG3	2.13	0.48
1:d:376:MET:O	1:d:389:SER:OG	2.30	0.48
1:g:348:TYR:CZ	1:g:350:LEU:HB2	2.48	0.48
1:g:555:MET:HB3	1:g:722:LEU:HG	1.94	0.48
1:o:263:ASP:O	1:o:267:GLN:HG3	2.13	0.48
1:o:348:TYR:CZ	1:o:350:LEU:HB2	2.48	0.48
1:q:520:THR:O	1:q:530:PRO:HD3	2.14	0.48
1:s:376:MET:O	1:s:389:SER:OG	2.30	0.48
1:s:520:THR:O	1:s:530:PRO:HD3	2.14	0.48
1:u:271:TYR:HE2	1:5:707:ILE:HD12	1.79	0.48
1:x:520:THR:O	1:x:530:PRO:HD3	2.14	0.48
1:x:581:GLN:H	1:y:479:GLN:NE2	2.12	0.48
1:x:704:ARG:NH2	1:x:706:SER:O	2.46	0.48
1:3:263:ASP:O	1:3:267:GLN:HG3	2.13	0.48
1:4:626:HIS:O	1:4:628:SER:N	2.41	0.48
1:C:348:TYR:CZ	1:C:350:LEU:HB2	2.48	0.48
1:E:520:THR:O	1:E:530:PRO:HD3	2.14	0.48
1:F:443:ASN:ND2	1:F:465:THR:O	2.47	0.48
1:F:479:GLN:NE2	1:Q:581:GLN:H	2.12	0.48
1:F:520:THR:O	1:F:530:PRO:HD3	2.14	0.48
1:H:271:TYR:HE2	1:Z:707:ILE:HD12	1.79	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:654:PRO:HG2	1:Z:246:PRO:HB3	1.95	0.48
1:H:707:ILE:HD12	1:I:271:TYR:HE2	1.79	0.48
1:J:707:ILE:HD12	1:a:271:TYR:HE2	1.79	0.48
1:K:239:THR:HG1	1:K:241:ARG:HH12	1.58	0.48
1:K:348:TYR:CZ	1:K:350:LEU:HB2	2.48	0.48
1:P:246:PRO:HB3	1:Q:654:PRO:HG2	1.95	0.48
1:Q:520:THR:O	1:Q:530:PRO:HD3	2.14	0.48
1:R:443:ASN:ND2	1:R:465:THR:O	2.47	0.48
1:X:263:ASP:O	1:X:267:GLN:HG3	2.13	0.48
1:c:520:THR:O	1:c:530:PRO:HD3	2.14	0.48
1:g:271:TYR:HE2	1:k:707:ILE:HD12	1.78	0.48
1:j:246:PRO:HB3	1:x:654:PRO:HG2	1.95	0.48
1:r:654:PRO:HG2	1:x:246:PRO:HB3	1.95	0.48
1:v:253:TYR:HB2	1:l:711:PRO:HG2	1.94	0.48
1:w:348:TYR:CZ	1:w:350:LEU:HB2	2.48	0.48
1:y:443:ASN:ND2	1:y:465:THR:O	2.47	0.48
1:y:520:THR:O	1:y:530:PRO:HD3	2.14	0.48
1:y:555:MET:HB3	1:y:722:LEU:HG	1.94	0.48
1:2:707:ILE:HD12	1:3:271:TYR:HE2	1.79	0.48
1:3:246:PRO:HB3	1:8:654:PRO:HG2	1.95	0.48
1:5:654:PRO:HG2	1:8:246:PRO:HB3	1.95	0.48
1:6:348:TYR:CZ	1:6:350:LEU:HB2	2.48	0.48
1:C:443:ASN:ND2	1:C:465:THR:O	2.47	0.48
1:C:555:MET:HB3	1:C:722:LEU:HG	1.94	0.48
1:C:654:PRO:HG2	1:D:246:PRO:HB3	1.95	0.48
1:G:520:THR:O	1:G:530:PRO:HD3	2.14	0.48
1:K:626:HIS:O	1:K:628:SER:N	2.41	0.48
1:O:448:ASP:OD1	1:O:452:ASN:N	2.44	0.48
1:O:520:THR:O	1:O:530:PRO:HD3	2.14	0.48
1:Q:559:GLU:OE2	1:Q:609:TYR:OH	2.24	0.48
1:R:263:ASP:O	1:R:267:GLN:HG3	2.13	0.48
1:R:427:GLN:HE22	1:S:347:PRO:HB3	1.77	0.48
1:S:263:ASP:O	1:S:267:GLN:HG3	2.13	0.48
1:U:443:ASN:ND2	1:U:465:THR:O	2.47	0.48
1:V:348:TYR:CZ	1:V:350:LEU:HB2	2.48	0.48
1:W:626:HIS:O	1:W:628:SER:N	2.41	0.48
1:X:348:TYR:CZ	1:X:350:LEU:HB2	2.48	0.48
1:X:520:THR:O	1:X:530:PRO:HD3	2.14	0.48
1:Y:248:TYR:OH	1:Y:368:LEU:O	2.26	0.48
1:Z:654:PRO:HG2	1:a:246:PRO:HB3	1.95	0.48
1:a:348:TYR:CZ	1:a:350:LEU:HB2	2.48	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:b:246:PRO:HB3	1:o:654:PRO:HG2	1.95	0.48
1:b:448:ASP:OD1	1:b:452:ASN:N	2.44	0.48
1:e:520:THR:O	1:e:530:PRO:HD3	2.14	0.48
1:f:448:ASP:OD1	1:f:452:ASN:N	2.44	0.48
1:f:704:ARG:NH2	1:f:706:SER:O	2.46	0.48
1:g:448:ASP:OD1	1:g:452:ASN:N	2.44	0.48
1:k:271:TYR:HE2	1:w:707:ILE:HD12	1.79	0.48
1:l:448:ASP:OD1	1:l:452:ASN:N	2.44	0.48
1:l:520:THR:O	1:l:530:PRO:HD3	2.14	0.48
1:n:271:TYR:HE2	1:r:707:ILE:HD12	1.79	0.48
1:n:376:MET:O	1:n:389:SER:OG	2.30	0.48
1:o:520:THR:O	1:o:530:PRO:HD3	2.14	0.48
1:p:348:TYR:CZ	1:p:350:LEU:HB2	2.48	0.48
1:q:263:ASP:O	1:q:267:GLN:HG3	2.13	0.48
1:q:443:ASN:ND2	1:q:465:THR:O	2.47	0.48
1:q:711:PRO:HG2	1:y:253:TYR:HB2	1.94	0.48
1:r:263:ASP:O	1:r:267:GLN:HG3	2.13	0.48
1:s:443:ASN:ND2	1:s:465:THR:O	2.47	0.48
1:t:520:THR:O	1:t:530:PRO:HD3	2.14	0.48
1:u:707:ILE:HD12	1:2:271:TYR:HE2	1.79	0.48
1:w:520:THR:O	1:w:530:PRO:HD3	2.14	0.48
1:z:348:TYR:CZ	1:z:350:LEU:HB2	2.48	0.48
1:1:263:ASP:O	1:1:267:GLN:HG3	2.13	0.48
1:4:239:THR:HG1	1:4:241:ARG:HH12	1.58	0.48
1:4:348:TYR:CZ	1:4:350:LEU:HB2	2.48	0.48
1:4:559:GLU:OE2	1:4:609:TYR:OH	2.24	0.48
1:7:248:TYR:OH	1:7:368:LEU:O	2.26	0.48
1:B:348:TYR:CZ	1:B:350:LEU:HB2	2.48	0.48
1:C:520:THR:O	1:C:530:PRO:HD3	2.14	0.48
1:D:581:GLN:H	1:N:479:GLN:NE2	2.12	0.48
1:E:348:TYR:CZ	1:E:350:LEU:HB2	2.48	0.48
1:F:555:MET:HB3	1:F:722:LEU:HG	1.94	0.48
1:H:248:TYR:OH	1:H:368:LEU:O	2.26	0.48
1:J:581:GLN:H	1:L:479:GLN:NE2	2.12	0.48
1:L:348:TYR:CZ	1:L:350:LEU:HB2	2.48	0.48
1:L:520:THR:O	1:L:530:PRO:HD3	2.14	0.48
1:M:520:THR:O	1:M:530:PRO:HD3	2.14	0.48
1:N:519:ALA:HB3	1:N:568:VAL:HA	1.94	0.48
1:O:263:ASP:O	1:O:267:GLN:HG3	2.13	0.48
1:O:443:ASN:ND2	1:O:465:THR:O	2.47	0.48
1:Q:246:PRO:HB3	1:S:654:PRO:HG2	1.95	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:S:348:TYR:CZ	1:S:350:LEU:HB2	2.48	0.48
1:S:520:THR:O	1:S:530:PRO:HD3	2.14	0.48
1:U:486:GLY:O	1:U:527:SER:OG	2.27	0.48
1:W:520:THR:O	1:W:530:PRO:HD3	2.14	0.48
1:b:704:ARG:NH2	1:b:706:SER:O	2.46	0.48
1:c:443:ASN:ND2	1:c:465:THR:O	2.47	0.48
1:e:246:PRO:HB3	1:h:654:PRO:HG2	1.96	0.48
1:h:443:ASN:ND2	1:h:465:THR:O	2.47	0.48
1:h:520:THR:O	1:h:530:PRO:HD3	2.14	0.48
1:j:263:ASP:O	1:j:267:GLN:HG3	2.13	0.48
1:l:263:ASP:O	1:l:267:GLN:HG3	2.13	0.48
1:l:443:ASN:ND2	1:l:465:THR:O	2.47	0.48
1:w:559:GLU:OE2	1:w:609:TYR:OH	2.24	0.48
1:2:520:THR:O	1:2:530:PRO:HD3	2.14	0.48
1:3:348:TYR:CZ	1:3:350:LEU:HB2	2.48	0.48
1:5:271:TYR:HE2	1:8:707:ILE:HD12	1.79	0.48
1:A:253:TYR:HB2	1:B:711:PRO:HG2	1.94	0.47
1:C:448:ASP:OD1	1:C:452:ASN:N	2.44	0.47
1:F:253:TYR:HB2	1:R:711:PRO:HG2	1.94	0.47
1:J:443:ASN:ND2	1:J:465:THR:O	2.47	0.47
1:J:520:THR:O	1:J:530:PRO:HD3	2.14	0.47
1:K:520:THR:O	1:K:530:PRO:HD3	2.14	0.47
1:O:581:GLN:H	1:m:479:GLN:NE2	2.12	0.47
1:P:263:ASP:O	1:P:267:GLN:HG3	2.13	0.47
1:X:654:PRO:HG2	1:f:246:PRO:HB3	1.95	0.47
1:Y:711:PRO:HG2	1:4:253:TYR:HB2	1.94	0.47
1:c:239:THR:HG1	1:c:241:ARG:HH12	1.58	0.47
1:e:443:ASN:ND2	1:e:465:THR:O	2.47	0.47
1:g:443:ASN:ND2	1:g:465:THR:O	2.47	0.47
1:g:520:THR:O	1:g:530:PRO:HD3	2.14	0.47
1:n:443:ASN:ND2	1:n:465:THR:O	2.47	0.47
1:n:520:THR:O	1:n:530:PRO:HD3	2.14	0.47
1:p:707:ILE:HD12	1:q:271:TYR:HE2	1.79	0.47
1:r:348:TYR:CZ	1:r:350:LEU:HB2	2.48	0.47
1:r:520:THR:O	1:r:530:PRO:HD3	2.14	0.47
1:u:246:PRO:HB3	1:2:654:PRO:HG2	1.95	0.47
1:z:479:GLN:NE2	1:2:581:GLN:H	2.12	0.47
1:z:520:THR:O	1:z:530:PRO:HD3	2.14	0.47
1:2:443:ASN:ND2	1:2:465:THR:O	2.47	0.47
1:5:248:TYR:OH	1:5:368:LEU:O	2.26	0.47
1:5:427:GLN:NE2	1:6:347:PRO:HB3	2.28	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:6:520:THR:O	1:6:530:PRO:HD3	2.14	0.47
1:D:443:ASN:ND2	1:D:465:THR:O	2.47	0.47
1:D:520:THR:O	1:D:530:PRO:HD3	2.14	0.47
1:I:707:ILE:HD12	1:J:271:TYR:HE2	1.79	0.47
1:J:626:HIS:O	1:J:628:SER:N	2.41	0.47
1:K:443:ASN:ND2	1:K:465:THR:O	2.47	0.47
1:M:443:ASN:ND2	1:M:465:THR:O	2.47	0.47
1:N:246:PRO:HB3	1:m:654:PRO:HG2	1.95	0.47
1:W:443:ASN:ND2	1:W:465:THR:O	2.47	0.47
1:d:443:ASN:ND2	1:d:465:THR:O	2.47	0.47
1:d:520:THR:O	1:d:530:PRO:HD3	2.14	0.47
1:i:519:ALA:HB3	1:i:568:VAL:HA	1.94	0.47
1:k:443:ASN:ND2	1:k:465:THR:O	2.47	0.47
1:k:520:THR:O	1:k:530:PRO:HD3	2.14	0.47
1:o:707:ILE:HD12	1:7:271:TYR:HE2	1.80	0.47
1:r:581:GLN:H	1:s:479:GLN:NE2	2.12	0.47
1:s:486:GLY:O	1:s:527:SER:OG	2.27	0.47
1:1:348:TYR:CZ	1:1:350:LEU:HB2	2.48	0.47
1:5:520:THR:O	1:5:530:PRO:HD3	2.14	0.47
1:6:626:HIS:O	1:6:628:SER:N	2.41	0.47
1:7:520:THR:O	1:7:530:PRO:HD3	2.14	0.47
1:8:348:TYR:CZ	1:8:350:LEU:HB2	2.48	0.47
1:B:347:PRO:HB3	1:L:427:GLN:NE2	2.27	0.47
1:B:520:THR:O	1:B:530:PRO:HD3	2.14	0.47
1:D:479:GLN:NE2	1:P:581:GLN:H	2.13	0.47
1:G:443:ASN:ND2	1:G:465:THR:O	2.47	0.47
1:H:427:GLN:NE2	1:W:347:PRO:HB3	2.28	0.47
1:H:520:THR:O	1:H:530:PRO:HD3	2.14	0.47
1:N:520:THR:O	1:N:530:PRO:HD3	2.14	0.47
1:S:581:GLN:H	1:U:479:GLN:NE2	2.12	0.47
1:U:707:ILE:HD12	1:e:271:TYR:HE2	1.79	0.47
1:Y:520:THR:O	1:Y:530:PRO:HD3	2.14	0.47
1:Z:348:TYR:CZ	1:Z:350:LEU:HB2	2.48	0.47
1:g:654:PRO:HG2	1:k:246:PRO:HB3	1.96	0.47
1:j:271:TYR:HE2	1:l:707:ILE:HD12	1.79	0.47
1:m:707:ILE:HD12	1:s:271:TYR:HE2	1.80	0.47
1:t:443:ASN:ND2	1:t:465:THR:O	2.47	0.47
1:4:443:ASN:ND2	1:4:465:THR:O	2.47	0.47
1:4:520:THR:O	1:4:530:PRO:HD3	2.14	0.47
1:6:443:ASN:ND2	1:6:465:THR:O	2.47	0.47
1:7:443:ASN:ND2	1:7:465:THR:O	2.47	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:443:ASN:ND2	1:A:465:THR:O	2.47	0.47
1:C:263:ASP:O	1:C:267:GLN:HG3	2.13	0.47
1:D:278:PHE:HD1	1:D:366:TYR:HH	1.62	0.47
1:E:559:GLU:OE2	1:E:609:TYR:OH	2.24	0.47
1:I:443:ASN:ND2	1:I:465:THR:O	2.47	0.47
1:J:246:PRO:HB3	1:a:654:PRO:HG2	1.95	0.47
1:O:707:ILE:HD12	1:P:271:TYR:HE2	1.79	0.47
1:R:271:TYR:HE2	1:V:707:ILE:HD12	1.79	0.47
1:S:707:ILE:HD12	1:d:271:TYR:HE2	1.79	0.47
1:T:479:GLN:NE2	1:l:581:GLN:H	2.12	0.47
1:T:707:ILE:HD12	1:U:271:TYR:HE2	1.80	0.47
1:Y:443:ASN:ND2	1:Y:465:THR:O	2.47	0.47
1:c:248:TYR:OH	1:c:368:LEU:O	2.26	0.47
1:c:271:TYR:HE2	1:s:707:ILE:HD12	1.79	0.47
1:c:654:PRO:HG2	1:s:246:PRO:HB3	1.95	0.47
1:d:581:GLN:H	1:l:479:GLN:NE2	2.12	0.47
1:g:263:ASP:O	1:g:267:GLN:HG3	2.13	0.47
1:i:520:THR:O	1:i:530:PRO:HD3	2.14	0.47
1:k:278:PHE:HD1	1:k:366:TYR:HH	1.62	0.47
1:m:520:THR:O	1:m:530:PRO:HD3	2.14	0.47
1:u:443:ASN:ND2	1:u:465:THR:O	2.47	0.47
1:v:520:THR:O	1:v:530:PRO:HD3	2.14	0.47
1:1:520:THR:O	1:1:530:PRO:HD3	2.14	0.47
1:2:246:PRO:HB3	1:3:654:PRO:HG2	1.95	0.47
1:A:520:THR:O	1:A:530:PRO:HD3	2.14	0.47
1:B:654:PRO:HG2	1:C:246:PRO:HB3	1.95	0.47
1:D:626:HIS:O	1:D:628:SER:N	2.41	0.47
1:I:246:PRO:HB3	1:J:654:PRO:HG2	1.96	0.47
1:K:479:GLN:NE2	1:8:581:GLN:H	2.12	0.47
1:K:654:PRO:HG2	1:7:246:PRO:HB3	1.96	0.47
1:L:263:ASP:O	1:L:267:GLN:HG3	2.13	0.47
1:P:707:ILE:HD12	1:Q:271:TYR:HE2	1.79	0.47
1:T:271:TYR:HE2	1:i:707:ILE:HD12	1.80	0.47
1:T:520:THR:O	1:T:530:PRO:HD3	2.14	0.47
1:T:581:GLN:H	1:d:479:GLN:NE2	2.13	0.47
1:T:654:PRO:HG2	1:i:246:PRO:HB3	1.96	0.47
1:U:246:PRO:HB3	1:e:654:PRO:HG2	1.96	0.47
1:W:486:GLY:O	1:W:527:SER:OG	2.27	0.47
1:Z:581:GLN:H	1:4:479:GLN:NE2	2.12	0.47
1:e:239:THR:HG1	1:e:241:ARG:HH12	1.59	0.47
1:j:581:GLN:H	1:k:479:GLN:NE2	2.13	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:j:707:ILE:HD12	1:x:271:TYR:HE2	1.79	0.47
1:s:248:TYR:OH	1:s:368:LEU:O	2.26	0.47
1:v:443:ASN:ND2	1:v:465:THR:O	2.47	0.47
1:z:263:ASP:O	1:z:267:GLN:HG3	2.13	0.47
1:z:427:GLN:NE2	1:1:347:PRO:HB3	2.27	0.47
1:2:626:HIS:O	1:2:628:SER:N	2.41	0.47
1:3:443:ASN:ND2	1:3:465:THR:O	2.47	0.47
1:C:271:TYR:HE2	1:D:707:ILE:HD12	1.79	0.47
1:D:271:TYR:HE2	1:E:707:ILE:HD12	1.80	0.47
1:E:443:ASN:ND2	1:E:465:THR:O	2.47	0.47
1:N:707:ILE:HD12	1:m:271:TYR:HE2	1.80	0.47
1:O:376:MET:O	1:O:389:SER:OG	2.30	0.47
1:O:479:GLN:NE2	1:n:581:GLN:H	2.12	0.47
1:V:443:ASN:ND2	1:V:465:THR:O	2.47	0.47
1:Y:707:ILE:HD12	1:4:271:TYR:HE2	1.79	0.47
1:Z:520:THR:O	1:Z:530:PRO:HD3	2.14	0.47
1:g:246:PRO:HB3	1:1:654:PRO:HG2	1.95	0.47
1:m:581:GLN:H	1:n:479:GLN:NE2	2.13	0.47
1:p:443:ASN:ND2	1:p:465:THR:O	2.47	0.47
1:t:271:TYR:HE2	1:y:707:ILE:HD12	1.80	0.47
1:3:520:THR:O	1:3:530:PRO:HD3	2.14	0.47
1:8:520:THR:O	1:8:530:PRO:HD3	2.14	0.47
1:A:479:GLN:NE2	1:I:581:GLN:H	2.12	0.47
1:A:626:HIS:O	1:A:628:SER:N	2.41	0.47
1:B:581:GLN:H	1:J:479:GLN:NE2	2.13	0.47
1:F:707:ILE:HD12	1:G:271:TYR:HE2	1.80	0.47
1:P:248:TYR:OH	1:P:368:LEU:O	2.26	0.47
1:Q:707:ILE:HD12	1:S:271:TYR:HE2	1.79	0.47
1:S:443:ASN:ND2	1:S:465:THR:O	2.47	0.47
1:U:248:TYR:OH	1:U:368:LEU:O	2.26	0.47
1:V:520:THR:O	1:V:530:PRO:HD3	2.14	0.47
1:V:581:GLN:H	1:e:479:GLN:NE2	2.13	0.47
1:X:479:GLN:NE2	1:e:581:GLN:H	2.13	0.47
1:X:707:ILE:HD12	1:Y:271:TYR:HE2	1.80	0.47
1:Z:271:TYR:HE2	1:a:707:ILE:HD12	1.80	0.47
1:b:376:MET:O	1:b:389:SER:OG	2.30	0.47
1:c:479:GLN:NE2	1:p:581:GLN:H	2.13	0.47
1:f:271:TYR:HE2	1:z:707:ILE:HD12	1.79	0.47
1:f:376:MET:O	1:f:389:SER:OG	2.30	0.47
1:j:448:ASP:OD1	1:j:452:ASN:N	2.44	0.47
1:j:559:GLU:OE2	1:j:609:TYR:OH	2.24	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:k:626:HIS:O	1:k:628:SER:N	2.41	0.47
1:l:376:MET:O	1:l:389:SER:OG	2.30	0.47
1:p:520:THR:O	1:p:530:PRO:HD3	2.14	0.47
1:t:707:ILE:HD12	1:6:271:TYR:HE2	1.79	0.47
1:u:581:GLN:H	1:v:479:GLN:NE2	2.12	0.47
1:w:443:ASN:ND2	1:w:465:THR:O	2.47	0.47
1:1:581:GLN:H	1:2:479:GLN:NE2	2.13	0.47
1:6:486:GLY:O	1:6:527:SER:OG	2.27	0.47
1:V:248:TYR:OH	1:V:368:LEU:O	2.26	0.47
1:X:376:MET:O	1:X:389:SER:OG	2.30	0.47
1:a:520:THR:O	1:a:530:PRO:HD3	2.14	0.47
1:c:581:GLN:H	1:o:479:GLN:NE2	2.13	0.47
1:j:248:TYR:OH	1:j:368:LEU:O	2.26	0.47
1:r:443:ASN:ND2	1:r:465:THR:O	2.47	0.47
1:B:479:GLN:NE2	1:L:581:GLN:H	2.12	0.47
1:E:239:THR:HG1	1:E:241:ARG:HH12	1.59	0.47
1:E:581:GLN:H	1:Q:479:GLN:NE2	2.13	0.47
1:G:707:ILE:HD12	1:W:271:TYR:HE2	1.79	0.47
1:H:443:ASN:ND2	1:H:465:THR:O	2.47	0.47
1:I:520:THR:O	1:I:530:PRO:HD3	2.14	0.47
1:L:443:ASN:ND2	1:L:465:THR:O	2.47	0.47
1:N:443:ASN:ND2	1:N:465:THR:O	2.47	0.47
1:P:448:ASP:OD1	1:P:452:ASN:N	2.44	0.47
1:V:479:GLN:NE2	1:X:581:GLN:H	2.13	0.47
1:V:654:PRO:HG2	1:W:246:PRO:HB3	1.96	0.47
1:a:376:MET:O	1:a:389:SER:OG	2.30	0.47
1:a:443:ASN:ND2	1:a:465:THR:O	2.47	0.47
1:g:707:ILE:HD12	1:1:271:TYR:HE2	1.80	0.47
1:o:581:GLN:H	1:p:479:GLN:NE2	2.13	0.47
1:r:271:TYR:HE2	1:x:707:ILE:HD12	1.79	0.47
1:s:239:THR:HG1	1:s:241:ARG:HH12	1.60	0.47
1:u:520:THR:O	1:u:530:PRO:HD3	2.14	0.47
1:u:559:GLU:OE2	1:u:609:TYR:OH	2.24	0.47
1:w:581:GLN:H	1:x:479:GLN:NE2	2.12	0.47
1:z:581:GLN:H	1:1:479:GLN:NE2	2.12	0.47
1:3:559:GLU:OE2	1:3:609:TYR:OH	2.24	0.47
1:3:707:ILE:HD12	1:8:271:TYR:HE2	1.80	0.47
1:B:271:TYR:HE2	1:C:707:ILE:HD12	1.79	0.47
1:L:707:ILE:HD12	1:b:271:TYR:HE2	1.80	0.47
1:P:443:ASN:ND2	1:P:465:THR:O	2.47	0.47
1:T:443:ASN:ND2	1:T:465:THR:O	2.47	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:X:443:ASN:ND2	1:X:465:THR:O	2.47	0.47
1:Z:479:GLN:NE2	1:3:581:GLN:H	2.12	0.47
1:a:559:GLU:OE2	1:a:609:TYR:OH	2.24	0.47
1:b:520:THR:O	1:b:530:PRO:HD3	2.14	0.47
1:f:520:THR:O	1:f:530:PRO:HD3	2.14	0.47
1:g:479:GLN:NE2	1:h:581:GLN:H	2.13	0.47
1:m:443:ASN:ND2	1:m:465:THR:O	2.47	0.47
1:p:654:PRO:HG2	1:6:246:PRO:HB3	1.96	0.47
1:q:479:GLN:NE2	1:s:581:GLN:H	2.12	0.47
1:u:448:ASP:OD1	1:u:452:ASN:N	2.44	0.47
1:v:626:HIS:O	1:v:628:SER:N	2.41	0.47
1:x:443:ASN:ND2	1:x:465:THR:O	2.47	0.47
1:z:443:ASN:ND2	1:z:465:THR:O	2.47	0.47
1:M:479:GLN:NE2	1:b:581:GLN:H	2.13	0.46
1:N:626:HIS:O	1:N:628:SER:N	2.41	0.46
1:P:520:THR:O	1:P:530:PRO:HD3	2.14	0.46
1:Q:443:ASN:ND2	1:Q:465:THR:O	2.47	0.46
1:R:479:GLN:NE2	1:U:581:GLN:H	2.12	0.46
1:T:626:HIS:O	1:T:628:SER:N	2.41	0.46
1:a:581:GLN:H	1:8:479:GLN:NE2	2.12	0.46
1:f:581:GLN:H	1:h:479:GLN:NE2	2.13	0.46
1:i:443:ASN:ND2	1:i:465:THR:O	2.47	0.46
1:j:443:ASN:ND2	1:j:465:THR:O	2.47	0.46
1:j:520:THR:O	1:j:530:PRO:HD3	2.14	0.46
1:w:376:MET:O	1:w:389:SER:OG	2.30	0.46
1:3:376:MET:O	1:3:389:SER:OG	2.30	0.46
1:5:443:ASN:ND2	1:5:465:THR:O	2.47	0.46
1:A:581:GLN:H	1:G:479:GLN:NE2	2.12	0.46
1:C:479:GLN:NE2	1:M:581:GLN:H	2.13	0.46
1:H:479:GLN:NE2	1:Y:581:GLN:H	2.12	0.46
1:I:448:ASP:OD1	1:I:452:ASN:N	2.44	0.46
1:K:278:PHE:HD1	1:K:366:TYR:HH	1.60	0.46
1:P:559:GLU:OE2	1:P:609:TYR:OH	2.24	0.46
1:d:248:TYR:OH	1:d:368:LEU:O	2.26	0.46
1:f:443:ASN:ND2	1:f:465:THR:O	2.47	0.46
1:o:443:ASN:ND2	1:o:465:THR:O	2.47	0.46
1:t:479:GLN:NE2	1:v:581:GLN:H	2.12	0.46
1:v:707:ILE:HD12	1:w:271:TYR:HE2	1.80	0.46
1:1:443:ASN:ND2	1:1:465:THR:O	2.47	0.46
1:8:443:ASN:ND2	1:8:465:THR:O	2.47	0.46
1:E:479:GLN:NE2	1:F:581:GLN:H	2.13	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:581:GLN:H	1:I:479:GLN:NE2	2.12	0.46
1:I:559:GLU:OE2	1:I:609:TYR:OH	2.24	0.46
1:K:581:GLN:H	1:a:479:GLN:NE2	2.13	0.46
1:b:443:ASN:ND2	1:b:465:THR:O	2.47	0.46
1:m:626:HIS:O	1:m:628:SER:N	2.41	0.46
1:r:278:PHE:HD1	1:r:366:TYR:HH	1.62	0.46
1:3:479:GLN:NE2	1:4:581:GLN:H	2.13	0.46
1:A:707:ILE:HD12	1:E:271:TYR:HE2	1.80	0.46
1:B:443:ASN:ND2	1:B:465:THR:O	2.47	0.46
1:S:245:LEU:HD22	1:S:645:ILE:HG12	1.98	0.46
1:S:278:PHE:HD1	1:S:366:TYR:HH	1.63	0.46
1:Y:559:GLU:OE2	1:Y:609:TYR:OH	2.24	0.46
1:Z:443:ASN:ND2	1:Z:465:THR:O	2.47	0.46
1:i:581:GLN:H	1:j:479:GLN:NE2	2.12	0.46
1:r:245:LEU:HD22	1:r:645:ILE:HG12	1.98	0.46
1:w:479:GLN:NE2	1:y:581:GLN:H	2.13	0.46
1:7:559:GLU:OE2	1:7:609:TYR:OH	2.24	0.46
1:A:239:THR:HG1	1:A:241:ARG:HH12	1.59	0.46
1:B:245:LEU:HD22	1:B:645:ILE:HG12	1.98	0.46
1:D:486:GLY:O	1:D:527:SER:OG	2.27	0.46
1:N:581:GLN:H	1:P:479:GLN:NE2	2.13	0.46
1:e:245:LEU:HD22	1:e:645:ILE:HG12	1.98	0.46
1:t:581:GLN:H	1:u:479:GLN:NE2	2.12	0.46
1:C:245:LEU:HD22	1:C:645:ILE:HG12	1.98	0.46
1:O:626:HIS:O	1:O:628:SER:N	2.41	0.46
1:f:479:GLN:NE2	1:g:581:GLN:H	2.13	0.46
1:g:245:LEU:HD22	1:g:645:ILE:HG12	1.98	0.46
1:h:559:GLU:OE2	1:h:609:TYR:OH	2.24	0.46
1:l:245:LEU:HD22	1:l:645:ILE:HG12	1.98	0.46
1:l:626:HIS:O	1:l:628:SER:N	2.41	0.46
1:m:245:LEU:HD22	1:m:645:ILE:HG12	1.98	0.46
1:m:376:MET:O	1:m:389:SER:OG	2.30	0.46
1:1:245:LEU:HD22	1:1:645:ILE:HG12	1.98	0.46
1:5:581:GLN:H	1:6:479:GLN:NE2	2.13	0.46
1:7:245:LEU:HD22	1:7:645:ILE:HG12	1.98	0.46
1:J:245:LEU:HD22	1:J:645:ILE:HG12	1.98	0.46
1:M:559:GLU:OE2	1:M:609:TYR:OH	2.24	0.46
1:T:376:MET:O	1:T:389:SER:OG	2.30	0.46
1:V:376:MET:O	1:V:389:SER:OG	2.30	0.46
1:c:245:LEU:HD22	1:c:645:ILE:HG12	1.98	0.46
1:n:248:TYR:OH	1:n:368:LEU:O	2.26	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:v:271:TYR:HE2	1:l:707:ILE:HD12	1.81	0.46
1:x:248:TYR:OH	1:x:368:LEU:O	2.26	0.46
1:2:245:LEU:HD22	1:2:645:ILE:HG12	1.98	0.46
1:4:245:LEU:HD22	1:4:645:ILE:HG12	1.98	0.46
1:C:581:GLN:H	1:b:479:GLN:NE2	2.13	0.46
1:H:245:LEU:HD22	1:H:645:ILE:HG12	1.98	0.46
1:K:245:LEU:HD22	1:K:645:ILE:HG12	1.98	0.46
1:M:707:ILE:HD12	1:N:271:TYR:HE2	1.80	0.46
1:Q:239:THR:HG1	1:Q:241:ARG:HH12	1.59	0.46
1:S:248:TYR:OH	1:S:368:LEU:O	2.26	0.46
1:Y:245:LEU:HD22	1:Y:645:ILE:HG12	1.98	0.46
1:b:707:ILE:HD12	1:o:271:TYR:HE2	1.80	0.46
1:l:271:TYR:HE2	1:n:707:ILE:HD12	1.80	0.46
1:A:271:TYR:HE2	1:B:707:ILE:HD12	1.81	0.46
1:G:486:GLY:O	1:G:527:SER:OG	2.27	0.46
1:H:581:GLN:H	1:W:479:GLN:NE2	2.13	0.46
1:L:486:GLY:O	1:L:527:SER:OG	2.27	0.46
1:O:271:TYR:HE2	1:d:707:ILE:HD12	1.80	0.46
1:T:245:LEU:HD22	1:T:645:ILE:HG12	1.98	0.46
1:X:271:TYR:HE2	1:f:707:ILE:HD12	1.80	0.46
1:Y:239:THR:HG1	1:Y:241:ARG:HH12	1.59	0.46
1:h:707:ILE:HD12	1:i:271:TYR:HE2	1.80	0.46
1:k:486:GLY:O	1:k:527:SER:OG	2.27	0.46
1:q:248:TYR:OH	1:q:368:LEU:O	2.26	0.46
1:r:248:TYR:OH	1:r:368:LEU:O	2.26	0.46
1:t:245:LEU:HD22	1:t:645:ILE:HG12	1.98	0.46
1:5:245:LEU:HD22	1:5:645:ILE:HG12	1.98	0.46
1:6:239:THR:HG1	1:6:241:ARG:HH12	1.58	0.46
1:6:245:LEU:HD22	1:6:645:ILE:HG12	1.98	0.46
1:F:245:LEU:HD22	1:F:645:ILE:HG12	1.98	0.46
1:G:245:LEU:HD22	1:G:645:ILE:HG12	1.98	0.46
1:O:245:LEU:HD22	1:O:645:ILE:HG12	1.98	0.46
1:O:248:TYR:OH	1:O:368:LEU:O	2.26	0.46
1:W:245:LEU:HD22	1:W:645:ILE:HG12	1.98	0.46
1:b:626:HIS:O	1:b:628:SER:N	2.41	0.46
1:f:626:HIS:O	1:f:628:SER:N	2.41	0.46
1:p:376:MET:O	1:p:389:SER:OG	2.30	0.46
1:y:245:LEU:HD22	1:y:645:ILE:HG12	1.98	0.46
1:z:271:TYR:HE2	1:4:707:ILE:HD12	1.80	0.46
1:K:707:ILE:HD12	1:L:271:TYR:HE2	1.80	0.45
1:M:245:LEU:HD22	1:M:645:ILE:HG12	1.98	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:R:248:TYR:OH	1:R:368:LEU:O	2.26	0.45
1:Z:245:LEU:HD22	1:Z:645:ILE:HG12	1.98	0.45
1:h:245:LEU:HD22	1:h:645:ILE:HG12	1.98	0.45
1:8:245:LEU:HD22	1:8:645:ILE:HG12	1.98	0.45
1:C:433:MET:SD	1:C:466:MET:SD	3.15	0.45
1:Q:245:LEU:HD22	1:Q:645:ILE:HG12	1.98	0.45
1:Q:486:GLY:O	1:Q:527:SER:OG	2.27	0.45
1:W:433:MET:SD	1:W:466:MET:SD	3.15	0.45
1:X:245:LEU:HD22	1:X:645:ILE:HG12	1.98	0.45
1:Z:433:MET:SD	1:Z:466:MET:SD	3.15	0.45
1:e:278:PHE:HD1	1:e:366:TYR:HH	1.64	0.45
1:g:433:MET:SD	1:g:466:MET:SD	3.15	0.45
1:o:245:LEU:HD22	1:o:645:ILE:HG12	1.98	0.45
1:w:239:THR:HG1	1:w:241:ARG:HH12	1.60	0.45
1:w:433:MET:SD	1:w:466:MET:SD	3.15	0.45
1:x:239:THR:HG1	1:x:241:ARG:HH12	1.59	0.45
1:6:433:MET:SD	1:6:466:MET:SD	3.15	0.45
1:8:433:MET:SD	1:8:466:MET:SD	3.15	0.45
1:B:433:MET:SD	1:B:466:MET:SD	3.15	0.45
1:L:278:PHE:HD1	1:L:366:TYR:HH	1.61	0.45
1:P:245:LEU:HD22	1:P:645:ILE:HG12	1.98	0.45
1:j:245:LEU:HD22	1:j:645:ILE:HG12	1.98	0.45
1:t:486:GLY:O	1:t:527:SER:OG	2.27	0.45
1:v:239:THR:HG1	1:v:241:ARG:HH12	1.59	0.45
1:x:245:LEU:HD22	1:x:645:ILE:HG12	1.98	0.45
1:E:296:ILE:HD12	1:E:727:TYR:CE2	2.52	0.45
1:E:433:MET:SD	1:E:466:MET:SD	3.15	0.45
1:K:376:MET:O	1:K:389:SER:OG	2.30	0.45
1:L:296:ILE:HD12	1:L:727:TYR:CE2	2.52	0.45
1:M:433:MET:SD	1:M:466:MET:SD	3.15	0.45
1:M:513:GLN:HA	1:M:514:PRO:HA	1.80	0.45
1:O:433:MET:SD	1:O:466:MET:SD	3.15	0.45
1:Q:433:MET:SD	1:Q:466:MET:SD	3.15	0.45
1:R:581:GLN:H	1:S:479:GLN:NE2	2.13	0.45
1:S:433:MET:SD	1:S:466:MET:SD	3.15	0.45
1:f:433:MET:SD	1:f:466:MET:SD	3.15	0.45
1:h:433:MET:SD	1:h:466:MET:SD	3.15	0.45
1:h:513:GLN:HA	1:h:514:PRO:HA	1.80	0.45
1:l:248:TYR:OH	1:l:368:LEU:O	2.26	0.45
1:l:433:MET:SD	1:l:466:MET:SD	3.15	0.45
1:r:433:MET:SD	1:r:466:MET:SD	3.15	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:x:433:MET:SD	1:x:466:MET:SD	3.15	0.45
1:x:486:GLY:O	1:x:527:SER:OG	2.27	0.45
1:1:433:MET:SD	1:1:466:MET:SD	3.15	0.45
1:4:376:MET:O	1:4:389:SER:OG	2.30	0.45
1:6:278:PHE:HD1	1:6:366:TYR:HH	1.64	0.45
1:6:376:MET:O	1:6:389:SER:OG	2.30	0.45
1:A:245:LEU:HD22	1:A:645:ILE:HG12	1.98	0.45
1:F:271:TYR:HE2	1:R:707:ILE:HD12	1.80	0.45
1:J:296:ILE:HD12	1:J:727:TYR:CE2	2.52	0.45
1:K:296:ILE:HD12	1:K:727:TYR:CE2	2.52	0.45
1:U:433:MET:SD	1:U:466:MET:SD	3.15	0.45
1:b:433:MET:SD	1:b:466:MET:SD	3.15	0.45
1:c:296:ILE:HD12	1:c:727:TYR:CE2	2.52	0.45
1:d:296:ILE:HD12	1:d:727:TYR:CE2	2.52	0.45
1:e:296:ILE:HD12	1:e:727:TYR:CE2	2.52	0.45
1:n:296:ILE:HD12	1:n:727:TYR:CE2	2.52	0.45
1:p:248:TYR:OH	1:p:368:LEU:O	2.26	0.45
1:v:245:LEU:HD22	1:v:645:ILE:HG12	1.98	0.45
1:v:296:ILE:HD12	1:v:727:TYR:CE2	2.52	0.45
1:w:296:ILE:HD12	1:w:727:TYR:CE2	2.52	0.45
1:z:296:ILE:HD12	1:z:727:TYR:CE2	2.52	0.45
1:2:296:ILE:HD12	1:2:727:TYR:CE2	2.52	0.45
1:A:296:ILE:HD12	1:A:727:TYR:CE2	2.52	0.45
1:C:296:ILE:HD12	1:C:727:TYR:CE2	2.52	0.45
1:D:296:ILE:HD12	1:D:727:TYR:CE2	2.52	0.45
1:F:296:ILE:HD12	1:F:727:TYR:CE2	2.52	0.45
1:G:296:ILE:HD12	1:G:727:TYR:CE2	2.52	0.45
1:J:433:MET:SD	1:J:466:MET:SD	3.15	0.45
1:T:239:THR:HG1	1:T:241:ARG:HH12	1.59	0.45
1:W:239:THR:HG1	1:W:241:ARG:HH12	1.59	0.45
1:W:376:MET:O	1:W:389:SER:OG	2.30	0.45
1:a:245:LEU:HD22	1:a:645:ILE:HG12	1.98	0.45
1:d:245:LEU:HD22	1:d:645:ILE:HG12	1.98	0.45
1:q:581:GLN:H	1:r:479:GLN:NE2	2.13	0.45
1:q:707:ILE:HD12	1:y:271:TYR:HE2	1.80	0.45
1:s:245:LEU:HD22	1:s:645:ILE:HG12	1.98	0.45
1:y:248:TYR:OH	1:y:368:LEU:O	2.26	0.45
1:y:296:ILE:HD12	1:y:727:TYR:CE2	2.52	0.45
1:2:433:MET:SD	1:2:466:MET:SD	3.15	0.45
1:4:296:ILE:HD12	1:4:727:TYR:CE2	2.52	0.45
1:5:491:TYR:HB2	1:7:582:ASN:O	2.17	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:8:359:PRO:CD	1:8:366:TYR:HB3	2.47	0.45
1:C:513:GLN:HA	1:C:514:PRO:HA	1.80	0.45
1:G:433:MET:SD	1:G:466:MET:SD	3.15	0.45
1:I:709:PHE:CZ	1:I:723:ILE:HD11	2.52	0.45
1:K:433:MET:SD	1:K:466:MET:SD	3.15	0.45
1:L:245:LEU:HD22	1:L:645:ILE:HG12	1.98	0.45
1:N:245:LEU:HD22	1:N:645:ILE:HG12	1.98	0.45
1:N:433:MET:SD	1:N:466:MET:SD	3.15	0.45
1:Q:296:ILE:HD12	1:Q:727:TYR:CE2	2.52	0.45
1:Z:248:TYR:OH	1:Z:368:LEU:O	2.26	0.45
1:Z:296:ILE:HD12	1:Z:727:TYR:CE2	2.52	0.45
1:b:245:LEU:HD22	1:b:645:ILE:HG12	1.98	0.45
1:g:296:ILE:HD12	1:g:727:TYR:CE2	2.52	0.45
1:i:245:LEU:HD22	1:i:645:ILE:HG12	1.98	0.45
1:i:433:MET:SD	1:i:466:MET:SD	3.15	0.45
1:k:296:ILE:HD12	1:k:727:TYR:CE2	2.52	0.45
1:n:245:LEU:HD22	1:n:645:ILE:HG12	1.98	0.45
1:o:433:MET:SD	1:o:466:MET:SD	3.15	0.45
1:o:709:PHE:CZ	1:o:723:ILE:HD11	2.52	0.45
1:s:433:MET:SD	1:s:466:MET:SD	3.15	0.45
1:t:248:TYR:OH	1:t:368:LEU:O	2.26	0.45
1:t:296:ILE:HD12	1:t:727:TYR:CE2	2.52	0.45
1:t:433:MET:SD	1:t:466:MET:SD	3.15	0.45
1:4:433:MET:SD	1:4:466:MET:SD	3.15	0.45
1:8:296:ILE:HD12	1:8:727:TYR:CE2	2.52	0.45
1:M:709:PHE:CZ	1:M:723:ILE:HD11	2.52	0.45
1:R:709:PHE:CZ	1:R:723:ILE:HD11	2.52	0.45
1:V:245:LEU:HD22	1:V:645:ILE:HG12	1.98	0.45
1:X:359:PRO:CD	1:X:366:TYR:HB3	2.47	0.45
1:X:433:MET:SD	1:X:466:MET:SD	3.15	0.45
1:X:709:PHE:CZ	1:X:723:ILE:HD11	2.52	0.45
1:Z:709:PHE:CZ	1:Z:723:ILE:HD11	2.52	0.45
1:a:296:ILE:HD12	1:a:727:TYR:CE2	2.52	0.45
1:d:433:MET:SD	1:d:466:MET:SD	3.15	0.45
1:e:626:HIS:O	1:e:628:SER:N	2.41	0.45
1:e:707:ILE:HD12	1:h:271:TYR:HE2	1.80	0.45
1:f:709:PHE:CZ	1:f:723:ILE:HD11	2.52	0.45
1:i:248:TYR:OH	1:i:368:LEU:O	2.26	0.45
1:i:331:ASN:HD22	1:i:669:GLN:HE22	1.65	0.45
1:n:433:MET:SD	1:n:466:MET:SD	3.15	0.45
1:o:359:PRO:CD	1:o:366:TYR:HB3	2.47	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:p:245:LEU:HD22	1:p:645:ILE:HG12	1.98	0.45
1:q:709:PHE:CZ	1:q:723:ILE:HD11	2.52	0.45
1:s:296:ILE:HD12	1:s:727:TYR:CE2	2.52	0.45
1:u:709:PHE:CZ	1:u:723:ILE:HD11	2.52	0.45
1:v:433:MET:SD	1:v:466:MET:SD	3.15	0.45
1:x:296:ILE:HD12	1:x:727:TYR:CE2	2.52	0.45
1:3:296:ILE:HD12	1:3:727:TYR:CE2	2.52	0.45
1:8:709:PHE:CZ	1:8:723:ILE:HD11	2.52	0.45
1:B:513:GLN:HA	1:B:514:PRO:HA	1.80	0.45
1:C:376:MET:O	1:C:389:SER:OG	2.30	0.45
1:E:444:PHE:HA	1:E:455:PHE:CD1	2.51	0.45
1:H:296:ILE:HD12	1:H:727:TYR:CE2	2.52	0.45
1:J:701:PHE:O	1:J:702:SER:HB2	2.17	0.45
1:K:248:TYR:OH	1:K:368:LEU:O	2.26	0.45
1:L:709:PHE:CZ	1:L:723:ILE:HD11	2.52	0.45
1:M:271:TYR:HE2	1:c:707:ILE:HD12	1.80	0.45
1:M:296:ILE:HD12	1:M:727:TYR:CE2	2.52	0.45
1:Q:248:TYR:OH	1:Q:368:LEU:O	2.26	0.45
1:S:709:PHE:CZ	1:S:723:ILE:HD11	2.52	0.45
1:T:701:PHE:O	1:T:702:SER:HB2	2.17	0.45
1:T:709:PHE:CZ	1:T:723:ILE:HD11	2.52	0.45
1:U:245:LEU:HD22	1:U:645:ILE:HG12	1.98	0.45
1:U:296:ILE:HD12	1:U:727:TYR:CE2	2.52	0.45
1:X:239:THR:HG1	1:X:241:ARG:HH12	1.59	0.45
1:c:331:ASN:HD22	1:c:669:GLN:HE22	1.65	0.45
1:c:709:PHE:CZ	1:c:723:ILE:HD11	2.52	0.45
1:e:709:PHE:CZ	1:e:723:ILE:HD11	2.52	0.45
1:f:245:LEU:HD22	1:f:645:ILE:HG12	1.98	0.45
1:j:433:MET:SD	1:j:466:MET:SD	3.15	0.45
1:j:709:PHE:CZ	1:j:723:ILE:HD11	2.52	0.45
1:r:709:PHE:CZ	1:r:723:ILE:HD11	2.52	0.45
1:s:331:ASN:HD22	1:s:669:GLN:HE22	1.65	0.45
1:z:245:LEU:HD22	1:z:645:ILE:HG12	1.98	0.45
1:z:709:PHE:CZ	1:z:723:ILE:HD11	2.52	0.45
1:2:701:PHE:O	1:2:702:SER:HB2	2.17	0.45
1:3:245:LEU:HD22	1:3:645:ILE:HG12	1.98	0.45
1:5:296:ILE:HD12	1:5:727:TYR:CE2	2.52	0.45
1:A:433:MET:SD	1:A:466:MET:SD	3.15	0.45
1:D:433:MET:SD	1:D:466:MET:SD	3.15	0.45
1:E:245:LEU:HD22	1:E:645:ILE:HG12	1.98	0.45
1:E:331:ASN:HD22	1:E:669:GLN:HE22	1.65	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:248:TYR:OH	1:F:368:LEU:O	2.26	0.45
1:H:278:PHE:HD1	1:H:366:TYR:HH	1.63	0.45
1:I:701:PHE:O	1:I:702:SER:HB2	2.17	0.45
1:M:331:ASN:HD22	1:M:669:GLN:HE22	1.65	0.45
1:N:331:ASN:HD22	1:N:669:GLN:HE22	1.65	0.45
1:P:433:MET:SD	1:P:466:MET:SD	3.15	0.45
1:P:709:PHE:CZ	1:P:723:ILE:HD11	2.52	0.45
1:Q:709:PHE:CZ	1:Q:723:ILE:HD11	2.52	0.45
1:R:433:MET:SD	1:R:466:MET:SD	3.15	0.45
1:R:701:PHE:O	1:R:702:SER:HB2	2.17	0.45
1:U:331:ASN:HD22	1:U:669:GLN:HE22	1.65	0.45
1:d:709:PHE:CZ	1:d:723:ILE:HD11	2.52	0.45
1:e:331:ASN:HD22	1:e:669:GLN:HE22	1.65	0.45
1:f:701:PHE:O	1:f:702:SER:HB2	2.17	0.45
1:h:296:ILE:HD12	1:h:727:TYR:CE2	2.52	0.45
1:h:709:PHE:CZ	1:h:723:ILE:HD11	2.52	0.45
1:k:433:MET:SD	1:k:466:MET:SD	3.15	0.45
1:m:239:THR:HG1	1:m:241:ARG:HH12	1.59	0.45
1:m:709:PHE:CZ	1:m:723:ILE:HD11	2.52	0.45
1:n:709:PHE:CZ	1:n:723:ILE:HD11	2.52	0.45
1:q:433:MET:SD	1:q:466:MET:SD	3.15	0.45
1:u:701:PHE:O	1:u:702:SER:HB2	2.17	0.45
1:w:331:ASN:HD22	1:w:669:GLN:HE22	1.65	0.45
1:x:709:PHE:CZ	1:x:723:ILE:HD11	2.52	0.45
1:4:248:TYR:OH	1:4:368:LEU:O	2.26	0.45
1:4:278:PHE:HD1	1:4:366:TYR:HH	1.63	0.45
1:8:248:TYR:OH	1:8:368:LEU:O	2.26	0.45
1:8:278:PHE:HD1	1:8:366:TYR:HH	1.64	0.45
1:C:709:PHE:CZ	1:C:723:ILE:HD11	2.52	0.44
1:G:248:TYR:OH	1:G:368:LEU:O	2.26	0.44
1:H:433:MET:SD	1:H:466:MET:SD	3.15	0.44
1:N:248:TYR:OH	1:N:368:LEU:O	2.26	0.44
1:V:331:ASN:HD22	1:V:669:GLN:HE22	1.65	0.44
1:X:296:ILE:HD12	1:X:727:TYR:CE2	2.52	0.44
1:Y:433:MET:SD	1:Y:466:MET:SD	3.15	0.44
1:b:701:PHE:O	1:b:702:SER:HB2	2.17	0.44
1:b:709:PHE:CZ	1:b:723:ILE:HD11	2.52	0.44
1:c:444:PHE:HA	1:c:455:PHE:CD1	2.51	0.44
1:e:444:PHE:HA	1:e:455:PHE:CD1	2.51	0.44
1:g:513:GLN:HA	1:g:514:PRO:HA	1.80	0.44
1:g:709:PHE:CZ	1:g:723:ILE:HD11	2.52	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:h:331:ASN:HD22	1:h:669:GLN:HE22	1.65	0.44
1:h:701:PHE:O	1:h:702:SER:HB2	2.17	0.44
1:j:296:ILE:HD12	1:j:727:TYR:CE2	2.52	0.44
1:m:701:PHE:O	1:m:702:SER:HB2	2.17	0.44
1:o:296:ILE:HD12	1:o:727:TYR:CE2	2.52	0.44
1:p:331:ASN:HD22	1:p:669:GLN:HE22	1.65	0.44
1:q:245:LEU:HD22	1:q:645:ILE:HG12	1.98	0.44
1:q:701:PHE:O	1:q:702:SER:HB2	2.17	0.44
1:r:296:ILE:HD12	1:r:727:TYR:CE2	2.52	0.44
1:x:559:GLU:OE2	1:x:609:TYR:OH	2.24	0.44
1:7:709:PHE:CZ	1:7:723:ILE:HD11	2.52	0.44
1:A:491:TYR:HB2	1:I:582:ASN:O	2.18	0.44
1:B:296:ILE:HD12	1:B:727:TYR:CE2	2.52	0.44
1:F:433:MET:SD	1:F:466:MET:SD	3.15	0.44
1:G:331:ASN:HD22	1:G:669:GLN:HE22	1.65	0.44
1:J:486:GLY:O	1:J:527:SER:OG	2.27	0.44
1:J:709:PHE:CZ	1:J:723:ILE:HD11	2.52	0.44
1:M:701:PHE:O	1:M:702:SER:HB2	2.17	0.44
1:N:296:ILE:HD12	1:N:727:TYR:CE2	2.52	0.44
1:O:701:PHE:O	1:O:702:SER:HB2	2.17	0.44
1:P:701:PHE:O	1:P:702:SER:HB2	2.17	0.44
1:R:296:ILE:HD12	1:R:727:TYR:CE2	2.52	0.44
1:S:296:ILE:HD12	1:S:727:TYR:CE2	2.52	0.44
1:V:296:ILE:HD12	1:V:727:TYR:CE2	2.52	0.44
1:Y:701:PHE:O	1:Y:702:SER:HB2	2.17	0.44
1:Y:709:PHE:CZ	1:Y:723:ILE:HD11	2.52	0.44
1:a:701:PHE:O	1:a:702:SER:HB2	2.17	0.44
1:c:626:HIS:O	1:c:628:SER:N	2.41	0.44
1:d:278:PHE:HD1	1:d:366:TYR:HH	1.63	0.44
1:g:376:MET:O	1:g:389:SER:OG	2.30	0.44
1:j:701:PHE:O	1:j:702:SER:HB2	2.17	0.44
1:n:278:PHE:HD1	1:n:366:TYR:HH	1.63	0.44
1:p:701:PHE:O	1:p:702:SER:HB2	2.17	0.44
1:w:245:LEU:HD22	1:w:645:ILE:HG12	1.98	0.44
1:y:278:PHE:HD1	1:y:366:TYR:HH	1.63	0.44
1:y:433:MET:SD	1:y:466:MET:SD	3.15	0.44
1:1:296:ILE:HD12	1:1:727:TYR:CE2	2.52	0.44
1:2:709:PHE:CZ	1:2:723:ILE:HD11	2.52	0.44
1:5:433:MET:SD	1:5:466:MET:SD	3.15	0.44
1:5:709:PHE:CZ	1:5:723:ILE:HD11	2.52	0.44
1:6:701:PHE:O	1:6:702:SER:HB2	2.17	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:331:ASN:HD22	1:C:669:GLN:HE22	1.65	0.44
1:G:709:PHE:CZ	1:G:723:ILE:HD11	2.52	0.44
1:H:331:ASN:HD22	1:H:669:GLN:HE22	1.65	0.44
1:H:709:PHE:CZ	1:H:723:ILE:HD11	2.52	0.44
1:P:296:ILE:HD12	1:P:727:TYR:CE2	2.52	0.44
1:S:331:ASN:HD22	1:S:669:GLN:HE22	1.65	0.44
1:T:433:MET:SD	1:T:466:MET:SD	3.15	0.44
1:V:433:MET:SD	1:V:466:MET:SD	3.15	0.44
1:W:296:ILE:HD12	1:W:727:TYR:CE2	2.52	0.44
1:W:701:PHE:O	1:W:702:SER:HB2	2.17	0.44
1:a:433:MET:SD	1:a:466:MET:SD	3.15	0.44
1:a:709:PHE:CZ	1:a:723:ILE:HD11	2.52	0.44
1:g:331:ASN:HD22	1:g:669:GLN:HE22	1.65	0.44
1:i:296:ILE:HD12	1:i:727:TYR:CE2	2.52	0.44
1:k:245:LEU:HD22	1:k:645:ILE:HG12	1.98	0.44
1:m:296:ILE:HD12	1:m:727:TYR:CE2	2.52	0.44
1:m:433:MET:SD	1:m:466:MET:SD	3.15	0.44
1:p:296:ILE:HD12	1:p:727:TYR:CE2	2.52	0.44
1:p:433:MET:SD	1:p:466:MET:SD	3.15	0.44
1:r:331:ASN:HD22	1:r:669:GLN:HE22	1.65	0.44
1:t:331:ASN:HD22	1:t:669:GLN:HE22	1.65	0.44
1:u:433:MET:SD	1:u:466:MET:SD	3.15	0.44
1:w:278:PHE:HD1	1:w:366:TYR:HH	1.63	0.44
1:5:331:ASN:HD22	1:5:669:GLN:HE22	1.65	0.44
1:6:296:ILE:HD12	1:6:727:TYR:CE2	2.52	0.44
1:7:433:MET:SD	1:7:466:MET:SD	3.15	0.44
1:7:701:PHE:O	1:7:702:SER:HB2	2.17	0.44
1:D:709:PHE:CZ	1:D:723:ILE:HD11	2.52	0.44
1:F:486:GLY:O	1:F:527:SER:OG	2.27	0.44
1:L:433:MET:SD	1:L:466:MET:SD	3.15	0.44
1:T:296:ILE:HD12	1:T:727:TYR:CE2	2.52	0.44
1:T:396:TYR:OH	1:i:291:ASP:OD2	2.36	0.44
1:V:701:PHE:O	1:V:702:SER:HB2	2.18	0.44
1:X:701:PHE:O	1:X:702:SER:HB2	2.17	0.44
1:Z:701:PHE:O	1:Z:702:SER:HB2	2.17	0.44
1:d:331:ASN:HD22	1:d:669:GLN:HE22	1.65	0.44
1:e:433:MET:SD	1:e:466:MET:SD	3.15	0.44
1:f:296:ILE:HD12	1:f:727:TYR:CE2	2.52	0.44
1:k:709:PHE:CZ	1:k:723:ILE:HD11	2.52	0.44
1:l:701:PHE:O	1:l:702:SER:HB2	2.17	0.44
1:o:701:PHE:O	1:o:702:SER:HB2	2.17	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:q:296:ILE:HD12	1:q:727:TYR:CE2	2.52	0.44
1:t:397:PHE:CE1	1:v:689:LYS:HG3	2.53	0.44
1:t:709:PHE:CZ	1:t:723:ILE:HD11	2.52	0.44
1:u:582:ASN:O	1:v:491:TYR:HB2	2.18	0.44
1:z:248:TYR:OH	1:z:368:LEU:O	2.26	0.44
1:z:433:MET:SD	1:z:466:MET:SD	3.15	0.44
1:3:433:MET:SD	1:3:466:MET:SD	3.15	0.44
1:3:709:PHE:CZ	1:3:723:ILE:HD11	2.52	0.44
1:4:331:ASN:HD22	1:4:669:GLN:HE22	1.65	0.44
1:8:701:PHE:O	1:8:702:SER:HB2	2.17	0.44
1:A:278:PHE:HD1	1:A:366:TYR:HH	1.63	0.44
1:A:689:LYS:HG3	1:G:397:PHE:CE1	2.53	0.44
1:D:245:LEU:HD22	1:D:645:ILE:HG12	1.98	0.44
1:I:296:ILE:HD12	1:I:727:TYR:CE2	2.52	0.44
1:K:331:ASN:HD22	1:K:669:GLN:HE22	1.65	0.44
1:K:709:PHE:CZ	1:K:723:ILE:HD11	2.52	0.44
1:L:331:ASN:HD22	1:L:669:GLN:HE22	1.66	0.44
1:R:245:LEU:HD22	1:R:645:ILE:HG12	1.98	0.44
1:Y:278:PHE:HD1	1:Y:366:TYR:HH	1.66	0.44
1:Y:331:ASN:HD22	1:Y:669:GLN:HE22	1.65	0.44
1:Y:444:PHE:HA	1:Y:455:PHE:CD1	2.51	0.44
1:c:433:MET:SD	1:c:466:MET:SD	3.15	0.44
1:d:701:PHE:O	1:d:702:SER:HB2	2.17	0.44
1:f:248:TYR:OH	1:f:368:LEU:O	2.26	0.44
1:n:701:PHE:O	1:n:702:SER:HB2	2.17	0.44
1:u:296:ILE:HD12	1:u:727:TYR:CE2	2.52	0.44
1:2:486:GLY:O	1:2:527:SER:OG	2.27	0.44
1:3:701:PHE:O	1:3:702:SER:HB2	2.17	0.44
1:7:278:PHE:HD1	1:7:366:TYR:HH	1.66	0.44
1:7:331:ASN:HD22	1:7:669:GLN:HE22	1.65	0.44
1:B:709:PHE:CZ	1:B:723:ILE:HD11	2.52	0.44
1:F:396:TYR:OH	1:R:291:ASP:OD2	2.36	0.44
1:G:689:LYS:HG3	1:I:397:PHE:CE1	2.53	0.44
1:J:331:ASN:HD22	1:J:669:GLN:HE22	1.65	0.44
1:K:396:TYR:OH	1:7:291:ASP:OD2	2.34	0.44
1:K:513:GLN:HA	1:K:514:PRO:HA	1.80	0.44
1:O:396:TYR:OH	1:d:291:ASP:OD2	2.36	0.44
1:T:291:ASP:OD2	1:U:396:TYR:OH	2.36	0.44
1:T:331:ASN:HD22	1:T:669:GLN:HE22	1.65	0.44
1:b:296:ILE:HD12	1:b:727:TYR:CE2	2.52	0.44
1:i:709:PHE:CZ	1:i:723:ILE:HD11	2.52	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:k:331:ASN:HD22	1:k:669:GLN:HE22	1.65	0.44
1:l:396:TYR:OH	1:n:291:ASP:OD2	2.36	0.44
1:m:291:ASP:OD2	1:s:396:TYR:OH	2.36	0.44
1:m:331:ASN:HD22	1:m:669:GLN:HE22	1.65	0.44
1:n:331:ASN:HD22	1:n:669:GLN:HE22	1.65	0.44
1:q:291:ASP:OD2	1:y:396:TYR:OH	2.36	0.44
1:r:239:THR:HG1	1:r:241:ARG:HH12	1.60	0.44
1:v:709:PHE:CZ	1:v:723:ILE:HD11	2.52	0.44
1:w:709:PHE:CZ	1:w:723:ILE:HD11	2.52	0.44
1:y:709:PHE:CZ	1:y:723:ILE:HD11	2.52	0.44
1:z:331:ASN:HD22	1:z:669:GLN:HE22	1.65	0.44
1:z:701:PHE:O	1:z:702:SER:HB2	2.17	0.44
1:2:444:PHE:HA	1:2:455:PHE:CD1	2.51	0.44
1:4:709:PHE:CZ	1:4:723:ILE:HD11	2.52	0.44
1:A:709:PHE:CZ	1:A:723:ILE:HD11	2.52	0.44
1:C:701:PHE:O	1:C:702:SER:HB2	2.17	0.44
1:D:331:ASN:HD22	1:D:669:GLN:HE22	1.65	0.44
1:E:278:PHE:HD1	1:E:366:TYR:HH	1.63	0.44
1:E:709:PHE:CZ	1:E:723:ILE:HD11	2.52	0.44
1:F:701:PHE:O	1:F:702:SER:HB2	2.17	0.44
1:F:709:PHE:CZ	1:F:723:ILE:HD11	2.52	0.44
1:I:245:LEU:HD22	1:I:645:ILE:HG12	1.98	0.44
1:I:433:MET:SD	1:I:466:MET:SD	3.15	0.44
1:L:248:TYR:OH	1:L:368:LEU:O	2.26	0.44
1:L:701:PHE:O	1:L:702:SER:HB2	2.17	0.44
1:N:291:ASP:OD2	1:m:396:TYR:OH	2.36	0.44
1:N:709:PHE:CZ	1:N:723:ILE:HD11	2.52	0.44
1:P:291:ASP:OD2	1:Q:396:TYR:OH	2.36	0.44
1:S:239:THR:HG1	1:S:241:ARG:HH12	1.58	0.44
1:g:701:PHE:O	1:g:702:SER:HB2	2.17	0.44
1:p:709:PHE:CZ	1:p:723:ILE:HD11	2.52	0.44
1:t:689:LYS:HG3	1:u:397:PHE:CE1	2.53	0.44
1:u:689:LYS:HG3	1:v:397:PHE:CE1	2.53	0.44
1:v:278:PHE:HD1	1:v:366:TYR:HH	1.62	0.44
1:x:444:PHE:HA	1:x:455:PHE:CD1	2.51	0.44
1:y:486:GLY:O	1:y:527:SER:OG	2.27	0.44
1:z:397:PHE:CE1	1:2:689:LYS:HG3	2.53	0.44
1:1:513:GLN:HA	1:1:514:PRO:HA	1.80	0.44
1:1:709:PHE:CZ	1:1:723:ILE:HD11	2.52	0.44
1:2:331:ASN:HD22	1:2:669:GLN:HE22	1.65	0.44
1:A:397:PHE:CE1	1:I:689:LYS:HG3	2.53	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:624:LYS:HE3	1:E:637:HIS:HE1	1.83	0.44
1:E:689:LYS:HG3	1:Q:397:PHE:CE1	2.53	0.44
1:H:624:LYS:HE3	1:H:637:HIS:HE1	1.83	0.44
1:J:444:PHE:HA	1:J:455:PHE:CD1	2.51	0.44
1:J:689:LYS:HG3	1:L:397:PHE:CE1	2.53	0.44
1:K:689:LYS:HG3	1:a:397:PHE:CE1	2.53	0.44
1:N:359:PRO:CD	1:N:366:TYR:HB3	2.47	0.44
1:O:624:LYS:HE3	1:O:637:HIS:HE1	1.83	0.44
1:O:709:PHE:CZ	1:O:723:ILE:HD11	2.52	0.44
1:Q:278:PHE:HD1	1:Q:366:TYR:HH	1.65	0.44
1:Q:701:PHE:O	1:Q:702:SER:HB2	2.17	0.44
1:V:709:PHE:CZ	1:V:723:ILE:HD11	2.52	0.44
1:a:689:LYS:HG3	1:8:397:PHE:CE1	2.53	0.44
1:e:701:PHE:O	1:e:702:SER:HB2	2.17	0.44
1:g:397:PHE:CE1	1:h:689:LYS:HG3	2.53	0.44
1:h:248:TYR:OH	1:h:368:LEU:O	2.26	0.44
1:m:248:TYR:OH	1:m:368:LEU:O	2.26	0.44
1:q:361:PHE:HA	1:q:362:PRO:HD3	1.91	0.44
1:t:396:TYR:OH	1:y:291:ASP:OD2	2.36	0.44
1:u:239:THR:HG1	1:u:241:ARG:HH12	1.58	0.44
1:w:624:LYS:HE3	1:w:637:HIS:HE1	1.83	0.44
1:x:701:PHE:O	1:x:702:SER:HB2	2.17	0.44
1:y:701:PHE:O	1:y:702:SER:HB2	2.17	0.44
1:z:239:THR:HG1	1:z:241:ARG:HH12	1.60	0.44
1:B:483:ALA:HB3	1:B:529:LEU:HD13	2.00	0.44
1:C:248:TYR:OH	1:C:368:LEU:O	2.26	0.44
1:F:291:ASP:OD2	1:G:396:TYR:OH	2.36	0.44
1:F:397:PHE:CE1	1:Q:689:LYS:HG3	2.53	0.44
1:G:291:ASP:OD2	1:W:396:TYR:OH	2.36	0.44
1:O:359:PRO:CD	1:O:366:TYR:HB3	2.47	0.44
1:U:624:LYS:HE3	1:U:637:HIS:HE1	1.83	0.44
1:V:689:LYS:HG3	1:e:397:PHE:CE1	2.53	0.44
1:W:233:ASN:OD1	1:W:233:ASN:N	2.47	0.44
1:X:396:TYR:OH	1:f:291:ASP:OD2	2.36	0.44
1:Y:626:HIS:O	1:Y:628:SER:N	2.41	0.44
1:Z:397:PHE:CE1	1:3:689:LYS:HG3	2.53	0.44
1:b:248:TYR:OH	1:b:368:LEU:O	2.26	0.44
1:b:291:ASP:OD2	1:o:396:TYR:OH	2.36	0.44
1:c:397:PHE:CE1	1:p:689:LYS:HG3	2.53	0.44
1:d:689:LYS:HG3	1:l:397:PHE:CE1	2.53	0.44
1:i:359:PRO:CD	1:i:366:TYR:HB3	2.47	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:j:291:ASP:OD2	1:x:396:TYR:OH	2.36	0.44
1:l:624:LYS:HE3	1:l:637:HIS:HE1	1.83	0.44
1:l:709:PHE:CZ	1:l:723:ILE:HD11	2.52	0.44
1:o:248:TYR:OH	1:o:368:LEU:O	2.26	0.44
1:p:483:ALA:HB3	1:p:529:LEU:HD13	2.00	0.44
1:s:624:LYS:HE3	1:s:637:HIS:HE1	1.83	0.44
1:s:626:HIS:O	1:s:628:SER:N	2.41	0.44
1:s:709:PHE:CZ	1:s:723:ILE:HD11	2.52	0.44
1:w:689:LYS:HG3	1:x:397:PHE:CE1	2.53	0.44
1:4:513:GLN:HA	1:4:514:PRO:HA	1.80	0.44
1:5:624:LYS:HE3	1:5:637:HIS:HE1	1.83	0.44
1:7:296:ILE:HD12	1:7:727:TYR:CE2	2.52	0.44
1:C:397:PHE:CE1	1:M:689:LYS:HG3	2.53	0.43
1:C:689:LYS:HG3	1:b:397:PHE:CE1	2.53	0.43
1:H:361:PHE:HA	1:H:362:PRO:HD3	1.91	0.43
1:I:359:PRO:HD3	1:I:366:TYR:CB	2.48	0.43
1:K:359:PRO:CD	1:K:366:TYR:HB3	2.47	0.43
1:O:397:PHE:CE1	1:n:689:LYS:HG3	2.53	0.43
1:O:513:GLN:HA	1:O:514:PRO:HA	1.80	0.43
1:Q:444:PHE:HA	1:Q:455:PHE:CD1	2.51	0.43
1:V:483:ALA:HB3	1:V:529:LEU:HD13	2.00	0.43
1:W:513:GLN:HA	1:W:514:PRO:HA	1.80	0.43
1:a:278:PHE:HD1	1:a:366:TYR:HH	1.65	0.43
1:c:689:LYS:HG3	1:o:397:PHE:CE1	2.53	0.43
1:c:701:PHE:O	1:c:702:SER:HB2	2.17	0.43
1:i:701:PHE:O	1:i:702:SER:HB2	2.17	0.43
1:k:483:ALA:HB3	1:k:529:LEU:HD13	2.00	0.43
1:l:296:ILE:HD12	1:l:727:TYR:CE2	2.52	0.43
1:l:359:PRO:CD	1:l:366:TYR:HB3	2.47	0.43
1:m:689:LYS:HG3	1:n:397:PHE:CE1	2.53	0.43
1:t:291:ASP:OD2	1:6:396:TYR:OH	2.36	0.43
1:u:359:PRO:HD3	1:u:366:TYR:CB	2.48	0.43
1:v:444:PHE:HA	1:v:455:PHE:CD1	2.51	0.43
1:x:483:ALA:HB3	1:x:529:LEU:HD13	2.00	0.43
1:x:689:LYS:HG3	1:y:397:PHE:CE1	2.53	0.43
1:z:278:PHE:HD1	1:z:366:TYR:HH	1.66	0.43
1:1:483:ALA:HB3	1:1:529:LEU:HD13	2.00	0.43
1:1:701:PHE:O	1:1:702:SER:HB2	2.17	0.43
1:3:397:PHE:CE1	1:4:689:LYS:HG3	2.53	0.43
1:5:483:ALA:HB3	1:5:529:LEU:HD13	2.00	0.43
1:6:709:PHE:CZ	1:6:723:ILE:HD11	2.52	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:483:ALA:HB3	1:D:529:LEU:HD13	2.00	0.43
1:E:397:PHE:CE1	1:F:689:LYS:HG3	2.53	0.43
1:F:278:PHE:HD1	1:F:366:TYR:HH	1.65	0.43
1:G:701:PHE:O	1:G:702:SER:HB2	2.17	0.43
1:H:483:ALA:HB3	1:H:529:LEU:HD13	2.00	0.43
1:I:359:PRO:CD	1:I:366:TYR:HB3	2.47	0.43
1:J:624:LYS:HE3	1:J:637:HIS:HE1	1.83	0.43
1:M:248:TYR:OH	1:M:368:LEU:O	2.26	0.43
1:N:701:PHE:O	1:N:702:SER:HB2	2.17	0.43
1:U:709:PHE:CZ	1:U:723:ILE:HD11	2.52	0.43
1:V:278:PHE:HD1	1:V:366:TYR:HH	1.62	0.43
1:X:248:TYR:OH	1:X:368:LEU:O	2.26	0.43
1:X:397:PHE:CE1	1:e:689:LYS:HG3	2.53	0.43
1:Y:296:ILE:HD12	1:Y:727:TYR:CE2	2.52	0.43
1:Z:278:PHE:HD1	1:Z:366:TYR:HH	1.66	0.43
1:f:689:LYS:HG3	1:h:397:PHE:CE1	2.53	0.43
1:g:248:TYR:OH	1:g:368:LEU:O	2.26	0.43
1:j:483:ALA:HB3	1:j:529:LEU:HD13	2.00	0.43
1:n:624:LYS:HE3	1:n:637:HIS:HE1	1.83	0.43
1:p:278:PHE:HD1	1:p:366:TYR:HH	1.62	0.43
1:r:701:PHE:O	1:r:702:SER:HB2	2.17	0.43
1:s:444:PHE:HA	1:s:455:PHE:CD1	2.51	0.43
1:s:701:PHE:O	1:s:702:SER:HB2	2.17	0.43
1:u:245:LEU:HD22	1:u:645:ILE:HG12	1.98	0.43
1:w:397:PHE:CE1	1:y:689:LYS:HG3	2.53	0.43
1:2:624:LYS:HE3	1:2:637:HIS:HE1	1.83	0.43
1:3:483:ALA:HB3	1:3:529:LEU:HD13	2.01	0.43
1:6:233:ASN:OD1	1:6:233:ASN:N	2.47	0.43
1:6:444:PHE:HA	1:6:455:PHE:CD1	2.51	0.43
1:A:444:PHE:HA	1:A:455:PHE:CD1	2.51	0.43
1:B:331:ASN:HD22	1:B:669:GLN:HE22	1.65	0.43
1:B:701:PHE:O	1:B:702:SER:HB2	2.17	0.43
1:G:483:ALA:HB3	1:G:529:LEU:HD13	2.00	0.43
1:K:662:LYS:NZ	1:7:715:GLY:O	2.52	0.43
1:M:624:LYS:HE3	1:M:637:HIS:HE1	1.83	0.43
1:O:296:ILE:HD12	1:O:727:TYR:CE2	2.52	0.43
1:P:483:ALA:HB3	1:P:529:LEU:HD13	2.00	0.43
1:Q:483:ALA:HB3	1:Q:529:LEU:HD13	2.00	0.43
1:S:483:ALA:HB3	1:S:529:LEU:HD13	2.00	0.43
1:S:582:ASN:O	1:U:491:TYR:HB2	2.19	0.43
1:S:701:PHE:O	1:S:702:SER:HB2	2.17	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:T:689:LYS:HG3	1:d:397:PHE:CE1	2.53	0.43
1:U:444:PHE:HA	1:U:455:PHE:CD1	2.51	0.43
1:V:397:PHE:CE1	1:X:689:LYS:HG3	2.53	0.43
1:W:444:PHE:HA	1:W:455:PHE:CD1	2.51	0.43
1:W:709:PHE:CZ	1:W:723:ILE:HD11	2.52	0.43
1:Y:359:PRO:HD3	1:Y:366:TYR:CB	2.48	0.43
1:Y:483:ALA:HB3	1:Y:529:LEU:HD13	2.00	0.43
1:a:483:ALA:HB3	1:a:529:LEU:HD13	2.00	0.43
1:d:624:LYS:HE3	1:d:637:HIS:HE1	1.83	0.43
1:f:397:PHE:CE1	1:g:689:LYS:HG3	2.53	0.43
1:f:444:PHE:HA	1:f:455:PHE:CD1	2.51	0.43
1:o:239:THR:HG1	1:o:241:ARG:HH12	1.59	0.43
1:o:689:LYS:HG3	1:p:397:PHE:CE1	2.53	0.43
1:r:582:ASN:O	1:s:491:TYR:HB2	2.19	0.43
1:r:689:LYS:HG3	1:s:397:PHE:CE1	2.53	0.43
1:t:701:PHE:O	1:t:702:SER:HB2	2.17	0.43
1:v:701:PHE:O	1:v:702:SER:HB2	2.17	0.43
1:w:701:PHE:O	1:w:702:SER:HB2	2.17	0.43
1:y:624:LYS:HE3	1:y:637:HIS:HE1	1.83	0.43
1:1:331:ASN:HD22	1:1:669:GLN:HE22	1.65	0.43
1:5:701:PHE:O	1:5:702:SER:HB2	2.17	0.43
1:A:359:PRO:HD3	1:A:366:TYR:CB	2.48	0.43
1:A:701:PHE:O	1:A:702:SER:HB2	2.17	0.43
1:B:239:THR:HG1	1:B:241:ARG:HH12	1.60	0.43
1:E:701:PHE:O	1:E:702:SER:HB2	2.17	0.43
1:I:483:ALA:HB3	1:I:529:LEU:HD13	2.00	0.43
1:J:278:PHE:HD1	1:J:366:TYR:HH	1.63	0.43
1:K:624:LYS:HE3	1:K:637:HIS:HE1	1.83	0.43
1:K:701:PHE:O	1:K:702:SER:HB2	2.17	0.43
1:L:624:LYS:HE3	1:L:637:HIS:HE1	1.83	0.43
1:M:397:PHE:CE1	1:b:689:LYS:HG3	2.53	0.43
1:S:689:LYS:HG3	1:U:397:PHE:CE1	2.53	0.43
1:T:397:PHE:CE1	1:l:689:LYS:HG3	2.54	0.43
1:U:626:HIS:O	1:U:628:SER:N	2.41	0.43
1:U:701:PHE:O	1:U:702:SER:HB2	2.17	0.43
1:Z:582:ASN:O	1:4:491:TYR:HB2	2.19	0.43
1:Z:624:LYS:HE3	1:Z:637:HIS:HE1	1.83	0.43
1:a:331:ASN:HD22	1:a:669:GLN:HE22	1.65	0.43
1:b:278:PHE:HD1	1:b:366:TYR:HH	1.64	0.43
1:b:444:PHE:HA	1:b:455:PHE:CD1	2.51	0.43
1:d:359:PRO:CD	1:d:366:TYR:HB3	2.47	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:h:483:ALA:HB3	1:h:529:LEU:HD13	2.00	0.43
1:l:513:GLN:HA	1:l:514:PRO:HA	1.80	0.43
1:n:359:PRO:CD	1:n:366:TYR:HB3	2.47	0.43
1:r:483:ALA:HB3	1:r:529:LEU:HD13	2.00	0.43
1:u:359:PRO:CD	1:u:366:TYR:HB3	2.47	0.43
1:1:239:THR:HG1	1:1:241:ARG:HH12	1.59	0.43
1:4:359:PRO:CD	1:4:366:TYR:HB3	2.47	0.43
1:5:361:PHE:HA	1:5:362:PRO:HD3	1.91	0.43
1:6:331:ASN:HD22	1:6:669:GLN:HE22	1.65	0.43
1:7:359:PRO:HD3	1:7:366:TYR:CB	2.48	0.43
1:7:483:ALA:HB3	1:7:529:LEU:HD13	2.00	0.43
1:C:624:LYS:HE3	1:C:637:HIS:HE1	1.83	0.43
1:F:359:PRO:CD	1:F:366:TYR:HB3	2.47	0.43
1:F:624:LYS:HE3	1:F:637:HIS:HE1	1.83	0.43
1:G:359:PRO:HD3	1:G:366:TYR:CB	2.48	0.43
1:H:701:PHE:O	1:H:702:SER:HB2	2.17	0.43
1:J:582:ASN:O	1:L:491:TYR:HB2	2.19	0.43
1:K:491:TYR:HB2	1:8:582:ASN:O	2.19	0.43
1:M:483:ALA:HB3	1:M:529:LEU:HD13	2.01	0.43
1:N:239:THR:HG1	1:N:241:ARG:HH12	1.58	0.43
1:N:486:GLY:O	1:N:527:SER:OG	2.27	0.43
1:O:491:TYR:HB2	1:n:582:ASN:O	2.18	0.43
1:Q:624:LYS:HE2	1:Q:624:LYS:HB2	1.87	0.43
1:R:689:LYS:HG3	1:S:397:PHE:CE1	2.53	0.43
1:U:359:PRO:CD	1:U:366:TYR:HB3	2.47	0.43
1:W:331:ASN:HD22	1:W:669:GLN:HE22	1.65	0.43
1:a:582:ASN:O	1:8:491:TYR:HB2	2.18	0.43
1:b:483:ALA:HB3	1:b:529:LEU:HD13	2.01	0.43
1:f:483:ALA:HB3	1:f:529:LEU:HD13	2.01	0.43
1:g:624:LYS:HE3	1:g:637:HIS:HE1	1.83	0.43
1:h:624:LYS:HE3	1:h:637:HIS:HE1	1.83	0.43
1:i:239:THR:HG1	1:i:241:ARG:HH12	1.58	0.43
1:i:477:LEU:HD23	1:k:577:VAL:O	2.19	0.43
1:n:513:GLN:HA	1:n:514:PRO:HA	1.80	0.43
1:q:397:PHE:CE1	1:s:689:LYS:HG3	2.53	0.43
1:t:483:ALA:HB3	1:t:529:LEU:HD13	2.01	0.43
1:v:359:PRO:HD3	1:v:366:TYR:CB	2.48	0.43
1:w:582:ASN:O	1:x:491:TYR:HB2	2.19	0.43
1:z:624:LYS:HE3	1:z:637:HIS:HE1	1.83	0.43
1:3:331:ASN:HD22	1:3:669:GLN:HE22	1.65	0.43
1:4:624:LYS:HE3	1:4:637:HIS:HE1	1.83	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:4:701:PHE:O	1:4:702:SER:HB2	2.17	0.43
1:8:624:LYS:HE3	1:8:637:HIS:HE1	1.83	0.43
1:A:396:TYR:OH	1:B:291:ASP:OD2	2.36	0.43
1:B:424:ALA:O	1:B:729:THR:HA	2.19	0.43
1:C:444:PHE:HA	1:C:455:PHE:CD1	2.51	0.43
1:J:424:ALA:O	1:J:729:THR:HA	2.19	0.43
1:L:239:THR:HG1	1:L:241:ARG:HH12	1.60	0.43
1:L:359:PRO:CD	1:L:366:TYR:HB3	2.47	0.43
1:N:424:ALA:O	1:N:729:THR:HA	2.19	0.43
1:O:689:LYS:HG3	1:m:397:PHE:CE1	2.54	0.43
1:P:331:ASN:HD22	1:P:669:GLN:HE22	1.65	0.43
1:Q:331:ASN:HD22	1:Q:669:GLN:HE22	1.65	0.43
1:R:397:PHE:CE1	1:U:689:LYS:HG3	2.53	0.43
1:S:437:VAL:HG12	1:S:438:ASP:O	2.19	0.43
1:U:483:ALA:HB3	1:U:529:LEU:HD13	2.00	0.43
1:X:483:ALA:HB3	1:X:529:LEU:HD13	2.00	0.43
1:Z:444:PHE:HA	1:Z:455:PHE:CD1	2.51	0.43
1:a:624:LYS:HE3	1:a:637:HIS:HE1	1.83	0.43
1:d:582:ASN:O	1:l:491:TYR:HB2	2.19	0.43
1:g:444:PHE:HA	1:g:455:PHE:CD1	2.51	0.43
1:i:483:ALA:HB3	1:i:529:LEU:HD13	2.00	0.43
1:j:331:ASN:HD22	1:j:669:GLN:HE22	1.65	0.43
1:q:624:LYS:HE3	1:q:637:HIS:HE1	1.83	0.43
1:s:483:ALA:HB3	1:s:529:LEU:HD13	2.00	0.43
1:u:291:ASP:OD2	1:2:396:TYR:OH	2.36	0.43
1:u:437:VAL:HG12	1:u:438:ASP:O	2.19	0.43
1:u:483:ALA:HB3	1:u:529:LEU:HD13	2.00	0.43
1:z:491:TYR:HB2	1:2:582:ASN:O	2.19	0.43
1:2:424:ALA:O	1:2:729:THR:HA	2.19	0.43
1:5:626:HIS:O	1:5:628:SER:N	2.41	0.43
1:B:582:ASN:O	1:J:491:TYR:HB2	2.19	0.43
1:E:582:ASN:O	1:Q:491:TYR:HB2	2.19	0.43
1:F:424:ALA:O	1:F:729:THR:HA	2.19	0.43
1:F:491:TYR:HB2	1:Q:582:ASN:O	2.18	0.43
1:I:291:ASP:OD2	1:J:396:TYR:OH	2.36	0.43
1:I:437:VAL:HG12	1:I:438:ASP:O	2.19	0.43
1:L:424:ALA:O	1:L:729:THR:HA	2.19	0.43
1:O:424:ALA:O	1:O:729:THR:HA	2.19	0.43
1:P:424:ALA:O	1:P:729:THR:HA	2.19	0.43
1:f:278:PHE:HD1	1:f:366:TYR:HH	1.64	0.43
1:i:486:GLY:O	1:i:527:SER:OG	2.27	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:o:483:ALA:HB3	1:o:529:LEU:HD13	2.00	0.43
1:q:689:LYS:HG3	1:r:397:PHE:CE1	2.53	0.43
1:r:437:VAL:HG12	1:r:438:ASP:O	2.19	0.43
1:t:359:PRO:HD3	1:t:366:TYR:CB	2.48	0.43
1:x:331:ASN:HD22	1:x:669:GLN:HE22	1.65	0.43
1:y:359:PRO:CD	1:y:366:TYR:HB3	2.47	0.43
1:y:424:ALA:O	1:y:729:THR:HA	2.19	0.43
1:z:359:PRO:CD	1:z:366:TYR:HB3	2.47	0.43
1:z:424:ALA:O	1:z:729:THR:HA	2.19	0.43
1:1:424:ALA:O	1:1:729:THR:HA	2.19	0.43
1:6:513:GLN:HA	1:6:514:PRO:HA	1.80	0.43
1:7:239:THR:HG1	1:7:241:ARG:HH12	1.60	0.43
1:A:582:ASN:O	1:G:491:TYR:HB2	2.18	0.43
1:D:582:ASN:O	1:N:491:TYR:HB2	2.19	0.43
1:F:331:ASN:HD22	1:F:669:GLN:HE22	1.65	0.43
1:H:396:TYR:OH	1:Z:291:ASP:OD2	2.36	0.43
1:H:626:HIS:O	1:H:628:SER:N	2.41	0.43
1:I:331:ASN:HD22	1:I:669:GLN:HE22	1.65	0.43
1:J:291:ASP:OD2	1:a:396:TYR:OH	2.36	0.43
1:K:424:ALA:O	1:K:729:THR:HA	2.19	0.43
1:K:483:ALA:HB3	1:K:529:LEU:HD13	2.00	0.43
1:M:622:ASP:OD1	1:b:421:SER:OG	2.35	0.43
1:N:437:VAL:HG12	1:N:438:ASP:O	2.19	0.43
1:N:483:ALA:HB3	1:N:529:LEU:HD13	2.00	0.43
1:R:624:LYS:HE3	1:R:637:HIS:HE1	1.83	0.43
1:T:513:GLN:HA	1:T:514:PRO:HA	1.80	0.43
1:V:359:PRO:CD	1:V:366:TYR:HB3	2.47	0.43
1:W:582:ASN:O	1:Y:491:TYR:HB2	2.19	0.43
1:X:331:ASN:HD22	1:X:669:GLN:HE22	1.65	0.43
1:X:424:ALA:O	1:X:729:THR:HA	2.19	0.43
1:Z:491:TYR:HB2	1:3:582:ASN:O	2.18	0.43
1:Z:689:LYS:HG3	1:4:397:PHE:CE1	2.54	0.43
1:e:624:LYS:HE3	1:e:637:HIS:HE1	1.83	0.43
1:i:424:ALA:O	1:i:729:THR:HA	2.19	0.43
1:j:424:ALA:O	1:j:729:THR:HA	2.19	0.43
1:o:331:ASN:HD22	1:o:669:GLN:HE22	1.65	0.43
1:p:437:VAL:HG12	1:p:438:ASP:O	2.19	0.43
1:q:424:ALA:O	1:q:729:THR:HA	2.19	0.43
1:s:359:PRO:CD	1:s:366:TYR:HB3	2.47	0.43
1:t:444:PHE:HA	1:t:455:PHE:CD1	2.51	0.43
1:x:582:ASN:O	1:y:491:TYR:HB2	2.18	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1:582:ASN:O	1:2:491:TYR:HB2	2.19	0.43
1:3:624:LYS:HE3	1:3:637:HIS:HE1	1.83	0.43
1:8:444:PHE:HA	1:8:455:PHE:CD1	2.51	0.43
1:A:359:PRO:CD	1:A:366:TYR:HB3	2.47	0.43
1:B:361:PHE:HA	1:B:362:PRO:HD3	1.91	0.43
1:C:359:PRO:CD	1:C:366:TYR:HB3	2.47	0.43
1:C:624:LYS:HE2	1:C:624:LYS:HB2	1.87	0.43
1:D:437:VAL:HG12	1:D:438:ASP:O	2.19	0.43
1:G:582:ASN:O	1:I:491:TYR:HB2	2.19	0.43
1:M:309:PHE:HB3	1:M:410:PHE:CE2	2.54	0.43
1:M:477:LEU:HD23	1:b:577:VAL:O	2.19	0.43
1:O:437:VAL:HG12	1:O:438:ASP:O	2.19	0.43
1:R:424:ALA:O	1:R:729:THR:HA	2.19	0.43
1:S:359:PRO:HD3	1:S:366:TYR:CB	2.48	0.43
1:T:577:VAL:O	1:d:477:LEU:HD23	2.19	0.43
1:U:309:PHE:HB3	1:U:410:PHE:CE2	2.54	0.43
1:V:437:VAL:HG12	1:V:438:ASP:O	2.19	0.43
1:W:424:ALA:O	1:W:729:THR:HA	2.19	0.43
1:Z:331:ASN:HD22	1:Z:669:GLN:HE22	1.65	0.43
1:c:309:PHE:HB3	1:c:410:PHE:CE2	2.54	0.43
1:c:624:LYS:HE3	1:c:637:HIS:HE1	1.83	0.43
1:e:309:PHE:HB3	1:e:410:PHE:CE2	2.54	0.43
1:f:577:VAL:O	1:h:477:LEU:HD23	2.19	0.43
1:g:359:PRO:CD	1:g:366:TYR:HB3	2.47	0.43
1:i:437:VAL:HG12	1:i:438:ASP:O	2.19	0.43
1:l:239:THR:HG1	1:l:241:ARG:HH12	1.58	0.43
1:l:424:ALA:O	1:l:729:THR:HA	2.19	0.43
1:m:483:ALA:HB3	1:m:529:LEU:HD13	2.01	0.43
1:o:424:ALA:O	1:o:729:THR:HA	2.19	0.43
1:p:359:PRO:CD	1:p:366:TYR:HB3	2.47	0.43
1:r:624:LYS:HE3	1:r:637:HIS:HE1	1.83	0.43
1:t:582:ASN:O	1:u:491:TYR:HB2	2.19	0.43
1:u:278:PHE:HD1	1:u:366:TYR:HH	1.65	0.43
1:u:331:ASN:HD22	1:u:669:GLN:HE22	1.65	0.43
1:u:424:ALA:O	1:u:729:THR:HA	2.19	0.43
1:v:359:PRO:CD	1:v:366:TYR:HB3	2.47	0.43
1:y:331:ASN:HD22	1:y:669:GLN:HE22	1.65	0.43
1:y:513:GLN:HA	1:y:514:PRO:HA	1.80	0.43
1:2:278:PHE:HD1	1:2:366:TYR:HH	1.63	0.43
1:4:424:ALA:O	1:4:729:THR:HA	2.19	0.43
1:4:483:ALA:HB3	1:4:529:LEU:HD13	2.01	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:5:396:TYR:OH	1:8:291:ASP:OD2	2.36	0.43
1:A:437:VAL:HG12	1:A:438:ASP:O	2.19	0.43
1:B:491:TYR:HB2	1:L:582:ASN:O	2.19	0.43
1:C:477:LEU:HD23	1:M:577:VAL:O	2.19	0.43
1:D:689:LYS:HG3	1:N:397:PHE:CE1	2.54	0.43
1:D:701:PHE:O	1:D:702:SER:HB2	2.17	0.43
1:G:444:PHE:HA	1:G:455:PHE:CD1	2.51	0.43
1:H:397:PHE:CE1	1:Y:689:LYS:HG3	2.54	0.43
1:I:424:ALA:O	1:I:729:THR:HA	2.19	0.43
1:K:397:PHE:CE1	1:8:689:LYS:HG3	2.54	0.43
1:P:624:LYS:HE3	1:P:637:HIS:HE1	1.83	0.43
1:Q:437:VAL:HG12	1:Q:438:ASP:O	2.19	0.43
1:R:331:ASN:HD22	1:R:669:GLN:HE22	1.65	0.43
1:R:396:TYR:OH	1:V:291:ASP:OD2	2.36	0.43
1:T:483:ALA:HB3	1:T:529:LEU:HD13	2.00	0.43
1:V:309:PHE:HB3	1:V:410:PHE:CE2	2.54	0.43
1:V:624:LYS:HE3	1:V:637:HIS:HE1	1.83	0.43
1:W:577:VAL:O	1:Y:477:LEU:HD23	2.19	0.43
1:a:309:PHE:HB3	1:a:410:PHE:CE2	2.54	0.43
1:b:331:ASN:HD22	1:b:669:GLN:HE22	1.65	0.43
1:b:624:LYS:HE3	1:b:637:HIS:HE1	1.83	0.43
1:d:424:ALA:O	1:d:729:THR:HA	2.19	0.43
1:d:444:PHE:HA	1:d:455:PHE:CD1	2.51	0.43
1:f:331:ASN:HD22	1:f:669:GLN:HE22	1.65	0.43
1:h:309:PHE:HB3	1:h:410:PHE:CE2	2.54	0.43
1:i:577:VAL:O	1:j:477:LEU:HD23	2.19	0.43
1:j:624:LYS:HE3	1:j:637:HIS:HE1	1.83	0.43
1:k:437:VAL:HG12	1:k:438:ASP:O	2.19	0.43
1:l:437:VAL:HG12	1:l:438:ASP:O	2.19	0.43
1:m:309:PHE:HB3	1:m:410:PHE:CE2	2.54	0.43
1:m:577:VAL:O	1:n:477:LEU:HD23	2.19	0.43
1:n:483:ALA:HB3	1:n:529:LEU:HD13	2.00	0.43
1:p:309:PHE:HB3	1:p:410:PHE:CE2	2.54	0.43
1:t:491:TYR:HB2	1:v:582:ASN:O	2.18	0.43
1:v:437:VAL:HG12	1:v:438:ASP:O	2.19	0.43
1:x:437:VAL:HG12	1:x:438:ASP:O	2.19	0.43
1:z:582:ASN:O	1:1:491:TYR:HB2	2.19	0.43
1:2:291:ASP:OD2	1:3:396:TYR:OH	2.36	0.43
1:3:437:VAL:HG12	1:3:438:ASP:O	2.19	0.43
1:6:424:ALA:O	1:6:729:THR:HA	2.19	0.43
1:8:331:ASN:HD22	1:8:669:GLN:HE22	1.65	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:309:PHE:HB3	1:A:410:PHE:CE2	2.54	0.42
1:A:424:ALA:O	1:A:729:THR:HA	2.19	0.42
1:A:483:ALA:HB3	1:A:529:LEU:HD13	2.00	0.42
1:B:397:PHE:CE1	1:L:689:LYS:HG3	2.53	0.42
1:C:577:VAL:O	1:b:477:LEU:HD23	2.19	0.42
1:H:309:PHE:HB3	1:H:410:PHE:CE2	2.54	0.42
1:H:437:VAL:HG12	1:H:438:ASP:O	2.19	0.42
1:H:477:LEU:HD23	1:Y:577:VAL:O	2.19	0.42
1:O:331:ASN:HD22	1:O:669:GLN:HE22	1.65	0.42
1:O:483:ALA:HB3	1:O:529:LEU:HD13	2.00	0.42
1:O:577:VAL:O	1:m:477:LEU:HD23	2.19	0.42
1:P:437:VAL:HG12	1:P:438:ASP:O	2.19	0.42
1:R:483:ALA:HB3	1:R:529:LEU:HD13	2.00	0.42
1:S:624:LYS:HE3	1:S:637:HIS:HE1	1.83	0.42
1:T:309:PHE:HB3	1:T:410:PHE:CE2	2.54	0.42
1:T:477:LEU:HD23	1:l:577:VAL:O	2.19	0.42
1:Y:437:VAL:HG12	1:Y:438:ASP:O	2.19	0.42
1:a:424:ALA:O	1:a:729:THR:HA	2.19	0.42
1:a:437:VAL:HG12	1:a:438:ASP:O	2.19	0.42
1:f:421:SER:OG	1:h:622:ASP:OD1	2.35	0.42
1:g:396:TYR:OH	1:k:291:ASP:OD2	2.35	0.42
1:g:624:LYS:HB2	1:g:624:LYS:HE2	1.87	0.42
1:h:444:PHE:HA	1:h:455:PHE:CD1	2.51	0.42
1:i:309:PHE:HB3	1:i:410:PHE:CE2	2.54	0.42
1:k:701:PHE:O	1:k:702:SER:HB2	2.18	0.42
1:l:483:ALA:HB3	1:l:529:LEU:HD13	2.00	0.42
1:n:424:ALA:O	1:n:729:THR:HA	2.19	0.42
1:n:444:PHE:HA	1:n:455:PHE:CD1	2.51	0.42
1:p:291:ASP:OD2	1:q:396:TYR:OH	2.36	0.42
1:q:331:ASN:HD22	1:q:669:GLN:HE22	1.65	0.42
1:q:477:LEU:HD23	1:s:577:VAL:O	2.19	0.42
1:q:513:GLN:HA	1:q:514:PRO:HA	1.80	0.42
1:r:359:PRO:HD3	1:r:366:TYR:CB	2.48	0.42
1:r:359:PRO:CD	1:r:366:TYR:HB3	2.47	0.42
1:s:309:PHE:HB3	1:s:410:PHE:CE2	2.54	0.42
1:t:624:LYS:HE3	1:t:637:HIS:HE1	1.83	0.42
1:v:309:PHE:HB3	1:v:410:PHE:CE2	2.54	0.42
1:v:424:ALA:O	1:v:729:THR:HA	2.19	0.42
1:y:437:VAL:HG12	1:y:438:ASP:O	2.19	0.42
1:z:689:LYS:HG3	1:1:397:PHE:CE1	2.53	0.42
1:3:309:PHE:HB3	1:3:410:PHE:CE2	2.54	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:5:309:PHE:HB3	1:5:410:PHE:CE2	2.54	0.42
1:5:437:VAL:HG12	1:5:438:ASP:O	2.19	0.42
1:6:689:LYS:HG3	1:7:397:PHE:CE1	2.54	0.42
1:7:309:PHE:HB3	1:7:410:PHE:CE2	2.54	0.42
1:B:689:LYS:HG3	1:J:397:PHE:CE1	2.53	0.42
1:D:397:PHE:CE1	1:P:689:LYS:HG3	2.53	0.42
1:F:437:VAL:HG12	1:F:438:ASP:O	2.19	0.42
1:G:424:ALA:O	1:G:729:THR:HA	2.19	0.42
1:G:624:LYS:HE3	1:G:637:HIS:HE1	1.83	0.42
1:H:424:ALA:O	1:H:729:THR:HA	2.19	0.42
1:J:483:ALA:HB3	1:J:529:LEU:HD13	2.00	0.42
1:L:437:VAL:HG12	1:L:438:ASP:O	2.19	0.42
1:N:309:PHE:HB3	1:N:410:PHE:CE2	2.54	0.42
1:N:577:VAL:O	1:P:477:LEU:HD23	2.19	0.42
1:Q:309:PHE:HB3	1:Q:410:PHE:CE2	2.54	0.42
1:Q:624:LYS:HE3	1:Q:637:HIS:HE1	1.83	0.42
1:R:437:VAL:HG12	1:R:438:ASP:O	2.19	0.42
1:S:359:PRO:CD	1:S:366:TYR:HB3	2.47	0.42
1:W:624:LYS:HE3	1:W:637:HIS:HE1	1.83	0.42
1:X:309:PHE:HB3	1:X:410:PHE:CE2	2.54	0.42
1:Y:309:PHE:HB3	1:Y:410:PHE:CE2	2.54	0.42
1:Z:424:ALA:O	1:Z:729:THR:HA	2.19	0.42
1:b:309:PHE:HB3	1:b:410:PHE:CE2	2.54	0.42
1:c:483:ALA:HB3	1:c:529:LEU:HD13	2.00	0.42
1:d:483:ALA:HB3	1:d:529:LEU:HD13	2.00	0.42
1:d:513:GLN:HA	1:d:514:PRO:HA	1.80	0.42
1:f:309:PHE:HB3	1:f:410:PHE:CE2	2.54	0.42
1:f:477:LEU:HD23	1:g:577:VAL:O	2.19	0.42
1:f:624:LYS:HE3	1:f:637:HIS:HE1	1.83	0.42
1:j:437:VAL:HG12	1:j:438:ASP:O	2.19	0.42
1:m:513:GLN:HA	1:m:514:PRO:HA	1.80	0.42
1:m:708:MET:HE1	1:m:720:ASP:N	2.35	0.42
1:p:424:ALA:O	1:p:729:THR:HA	2.19	0.42
1:p:624:LYS:HE3	1:p:637:HIS:HE1	1.83	0.42
1:u:624:LYS:HE3	1:u:637:HIS:HE1	1.83	0.42
1:v:483:ALA:HB3	1:v:529:LEU:HD13	2.00	0.42
1:w:483:ALA:HB3	1:w:529:LEU:HD13	2.00	0.42
1:x:309:PHE:HB3	1:x:410:PHE:CE2	2.54	0.42
1:x:359:PRO:CD	1:x:366:TYR:HB3	2.47	0.42
1:x:624:LYS:HE3	1:x:637:HIS:HE1	1.83	0.42
1:y:483:ALA:HB3	1:y:529:LEU:HD13	2.00	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:z:437:VAL:HG12	1:z:438:ASP:O	2.19	0.42
1:2:483:ALA:HB3	1:2:529:LEU:HD13	2.00	0.42
1:3:424:ALA:O	1:3:729:THR:HA	2.19	0.42
1:3:477:LEU:HD23	1:4:577:VAL:O	2.19	0.42
1:5:424:ALA:O	1:5:729:THR:HA	2.19	0.42
1:6:309:PHE:HB3	1:6:410:PHE:CE2	2.54	0.42
1:7:437:VAL:HG12	1:7:438:ASP:O	2.19	0.42
1:A:331:ASN:HD22	1:A:669:GLN:HE22	1.65	0.42
1:B:437:VAL:HG12	1:B:438:ASP:O	2.19	0.42
1:C:437:VAL:HG12	1:C:438:ASP:O	2.19	0.42
1:D:309:PHE:HB3	1:D:410:PHE:CE2	2.54	0.42
1:E:279:ASP:O	1:E:357:THR:HA	2.20	0.42
1:E:359:PRO:CD	1:E:366:TYR:HB3	2.47	0.42
1:E:483:ALA:HB3	1:E:529:LEU:HD13	2.00	0.42
1:F:483:ALA:HB3	1:F:529:LEU:HD13	2.00	0.42
1:G:626:HIS:O	1:G:628:SER:N	2.41	0.42
1:O:239:THR:HG1	1:O:241:ARG:HH12	1.59	0.42
1:P:279:ASP:O	1:P:357:THR:HA	2.20	0.42
1:Q:291:ASP:OD2	1:S:396:TYR:OH	2.36	0.42
1:Q:359:PRO:CD	1:Q:366:TYR:HB3	2.47	0.42
1:R:477:LEU:HD23	1:U:577:VAL:O	2.19	0.42
1:T:424:ALA:O	1:T:729:THR:HA	2.19	0.42
1:T:708:MET:HE1	1:T:720:ASP:N	2.35	0.42
1:V:424:ALA:O	1:V:729:THR:HA	2.19	0.42
1:W:309:PHE:HB3	1:W:410:PHE:CE2	2.54	0.42
1:W:359:PRO:CD	1:W:366:TYR:HB3	2.47	0.42
1:Y:279:ASP:O	1:Y:357:THR:HA	2.20	0.42
1:e:483:ALA:HB3	1:e:529:LEU:HD13	2.01	0.42
1:g:477:LEU:HD23	1:h:577:VAL:O	2.19	0.42
1:i:491:TYR:HB2	1:k:582:ASN:O	2.19	0.42
1:k:309:PHE:HB3	1:k:410:PHE:CE2	2.54	0.42
1:l:279:ASP:O	1:l:357:THR:HA	2.20	0.42
1:m:424:ALA:O	1:m:729:THR:HA	2.19	0.42
1:m:689:LYS:HA	1:m:689:LYS:HD2	1.90	0.42
1:o:309:PHE:HB3	1:o:410:PHE:CE2	2.54	0.42
1:q:279:ASP:O	1:q:357:THR:HA	2.20	0.42
1:t:424:ALA:O	1:t:729:THR:HA	2.19	0.42
1:t:437:VAL:HG12	1:t:438:ASP:O	2.19	0.42
1:w:279:ASP:O	1:w:357:THR:HA	2.20	0.42
1:w:424:ALA:O	1:w:729:THR:HA	2.19	0.42
1:x:278:PHE:HD1	1:x:366:TYR:HH	1.66	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1:309:PHE:HB3	1:1:410:PHE:CE2	2.54	0.42
1:1:437:VAL:HG12	1:1:438:ASP:O	2.19	0.42
1:5:689:LYS:HG3	1:6:397:PHE:CE1	2.54	0.42
1:6:624:LYS:HE3	1:6:637:HIS:HE1	1.83	0.42
1:A:708:MET:HE1	1:A:720:ASP:N	2.35	0.42
1:B:309:PHE:HB3	1:B:410:PHE:CE2	2.54	0.42
1:C:396:TYR:OH	1:D:291:ASP:OD2	2.36	0.42
1:C:483:ALA:HB3	1:C:529:LEU:HD13	2.01	0.42
1:D:279:ASP:O	1:D:357:THR:HA	2.20	0.42
1:D:577:VAL:O	1:N:477:LEU:HD23	2.20	0.42
1:E:309:PHE:HB3	1:E:410:PHE:CE2	2.54	0.42
1:E:577:VAL:O	1:Q:477:LEU:HD23	2.20	0.42
1:F:576:THR:CG2	1:F:592:LEU:HD22	2.50	0.42
1:G:279:ASP:O	1:G:357:THR:HA	2.20	0.42
1:G:309:PHE:HB3	1:G:410:PHE:CE2	2.54	0.42
1:G:437:VAL:HG12	1:G:438:ASP:O	2.19	0.42
1:H:491:TYR:HB2	1:Y:582:ASN:O	2.20	0.42
1:H:582:ASN:O	1:W:491:TYR:HB2	2.19	0.42
1:H:689:LYS:HG3	1:W:397:PHE:CE1	2.54	0.42
1:K:437:VAL:HG12	1:K:438:ASP:O	2.19	0.42
1:K:577:VAL:O	1:a:477:LEU:HD23	2.19	0.42
1:L:483:ALA:HB3	1:L:529:LEU:HD13	2.00	0.42
1:L:576:THR:CG2	1:L:592:LEU:HD22	2.50	0.42
1:M:444:PHE:HA	1:M:455:PHE:CD1	2.51	0.42
1:N:689:LYS:HG3	1:P:397:PHE:CE1	2.54	0.42
1:O:576:THR:CG2	1:O:592:LEU:HD22	2.50	0.42
1:Q:424:ALA:O	1:Q:729:THR:HA	2.19	0.42
1:R:279:ASP:O	1:R:357:THR:HA	2.20	0.42
1:R:309:PHE:HB3	1:R:410:PHE:CE2	2.54	0.42
1:T:359:PRO:CD	1:T:366:TYR:HB3	2.47	0.42
1:T:437:VAL:HG12	1:T:438:ASP:O	2.19	0.42
1:U:291:ASP:OD2	1:e:396:TYR:OH	2.36	0.42
1:X:359:PRO:HD3	1:X:366:TYR:CB	2.48	0.42
1:Z:477:LEU:HD23	1:3:577:VAL:O	2.20	0.42
1:g:309:PHE:HB3	1:g:410:PHE:CE2	2.54	0.42
1:g:437:VAL:HG12	1:g:438:ASP:O	2.19	0.42
1:l:331:ASN:HD22	1:l:669:GLN:HE22	1.65	0.42
1:l:486:GLY:O	1:l:527:SER:OG	2.27	0.42
1:m:279:ASP:O	1:m:357:THR:HA	2.20	0.42
1:m:437:VAL:HG12	1:m:438:ASP:O	2.19	0.42
1:o:359:PRO:HD3	1:o:366:TYR:CB	2.48	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:q:437:VAL:HG12	1:q:438:ASP:O	2.19	0.42
1:q:483:ALA:HB3	1:q:529:LEU:HD13	2.00	0.42
1:r:396:TYR:OH	1:x:291:ASP:OD2	2.36	0.42
1:t:309:PHE:HB3	1:t:410:PHE:CE2	2.54	0.42
1:u:309:PHE:HB3	1:u:410:PHE:CE2	2.54	0.42
1:v:708:MET:HE1	1:v:720:ASP:N	2.35	0.42
1:w:309:PHE:HB3	1:w:410:PHE:CE2	2.54	0.42
1:w:359:PRO:CD	1:w:366:TYR:HB3	2.47	0.42
1:w:491:TYR:HB2	1:y:582:ASN:O	2.18	0.42
1:x:424:ALA:O	1:x:729:THR:HA	2.19	0.42
1:y:576:THR:CG2	1:y:592:LEU:HD22	2.50	0.42
1:1:361:PHE:HA	1:1:362:PRO:HD3	1.91	0.42
1:1:689:LYS:HG3	1:2:397:PHE:CE1	2.53	0.42
1:3:576:THR:CG2	1:3:592:LEU:HD22	2.50	0.42
1:4:437:VAL:HG12	1:4:438:ASP:O	2.19	0.42
1:4:444:PHE:HA	1:4:455:PHE:CD1	2.51	0.42
1:6:483:ALA:HB3	1:6:529:LEU:HD13	2.00	0.42
1:6:577:VAL:O	1:7:477:LEU:HD23	2.19	0.42
1:7:279:ASP:O	1:7:357:THR:HA	2.20	0.42
1:8:424:ALA:O	1:8:729:THR:HA	2.19	0.42
1:C:477:LEU:H	1:C:594:VAL:HG22	1.85	0.42
1:E:359:PRO:HD3	1:E:366:TYR:CB	2.48	0.42
1:E:424:ALA:O	1:E:729:THR:HA	2.19	0.42
1:E:491:TYR:HB2	1:F:582:ASN:O	2.18	0.42
1:I:239:THR:HG1	1:I:241:ARG:HH12	1.60	0.42
1:I:309:PHE:HB3	1:I:410:PHE:CE2	2.54	0.42
1:I:624:LYS:HE3	1:I:637:HIS:HE1	1.83	0.42
1:J:576:THR:CG2	1:J:592:LEU:HD22	2.50	0.42
1:K:477:LEU:HD23	1:8:577:VAL:O	2.19	0.42
1:L:689:LYS:HA	1:L:689:LYS:HD2	1.90	0.42
1:M:576:THR:CG2	1:M:592:LEU:HD22	2.50	0.42
1:O:279:ASP:O	1:O:357:THR:HA	2.20	0.42
1:P:359:PRO:HD3	1:P:366:TYR:CB	2.48	0.42
1:P:624:LYS:HE2	1:P:624:LYS:HB2	1.87	0.42
1:R:513:GLN:HA	1:R:514:PRO:HA	1.80	0.42
1:T:361:PHE:HA	1:T:362:PRO:HD3	1.91	0.42
1:T:576:THR:CG2	1:T:592:LEU:HD22	2.50	0.42
1:V:582:ASN:O	1:e:491:TYR:HB2	2.19	0.42
1:Z:577:VAL:O	1:4:477:LEU:HD23	2.19	0.42
1:a:576:THR:CG2	1:a:592:LEU:HD22	2.50	0.42
1:a:577:VAL:O	1:8:477:LEU:HD23	2.20	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:b:279:ASP:O	1:b:357:THR:HA	2.20	0.42
1:c:396:TYR:OH	1:s:291:ASP:OD2	2.36	0.42
1:c:477:LEU:H	1:c:594:VAL:HG22	1.85	0.42
1:f:279:ASP:O	1:f:357:THR:HA	2.20	0.42
1:f:437:VAL:HG12	1:f:438:ASP:O	2.19	0.42
1:h:576:THR:CG2	1:h:592:LEU:HD22	2.50	0.42
1:j:279:ASP:O	1:j:357:THR:HA	2.20	0.42
1:j:582:ASN:O	1:k:491:TYR:HB2	2.19	0.42
1:l:576:THR:CG2	1:l:592:LEU:HD22	2.50	0.42
1:m:359:PRO:CD	1:m:366:TYR:HB3	2.47	0.42
1:m:576:THR:CG2	1:m:592:LEU:HD22	2.50	0.42
1:o:291:ASP:OD2	1:7:396:TYR:OH	2.35	0.42
1:q:309:PHE:HB3	1:q:410:PHE:CE2	2.54	0.42
1:t:279:ASP:O	1:t:357:THR:HA	2.20	0.42
1:w:359:PRO:HD3	1:w:366:TYR:CB	2.48	0.42
1:w:577:VAL:O	1:x:477:LEU:HD23	2.20	0.42
1:2:576:THR:CG2	1:2:592:LEU:HD22	2.50	0.42
1:3:279:ASP:O	1:3:357:THR:HA	2.20	0.42
1:5:582:ASN:O	1:6:491:TYR:HB2	2.19	0.42
1:6:582:ASN:O	1:7:491:TYR:HB2	2.20	0.42
1:A:624:LYS:HE3	1:A:637:HIS:HE1	1.83	0.42
1:B:576:THR:CG2	1:B:592:LEU:HD22	2.50	0.42
1:B:577:VAL:O	1:J:477:LEU:HD23	2.20	0.42
1:C:309:PHE:HB3	1:C:410:PHE:CE2	2.54	0.42
1:D:491:TYR:HB2	1:P:582:ASN:O	2.19	0.42
1:F:309:PHE:HB3	1:F:410:PHE:CE2	2.54	0.42
1:F:477:LEU:H	1:F:594:VAL:HG22	1.85	0.42
1:F:624:LYS:HE2	1:F:624:LYS:HB2	1.87	0.42
1:J:437:VAL:HG12	1:J:438:ASP:O	2.19	0.42
1:K:289:PRO:HG2	1:K:709:PHE:HB3	2.02	0.42
1:L:279:ASP:O	1:L:357:THR:HA	2.20	0.42
1:M:289:PRO:HG2	1:M:709:PHE:HB3	2.02	0.42
1:N:289:PRO:HG2	1:N:709:PHE:HB3	2.02	0.42
1:N:708:MET:HE1	1:N:720:ASP:N	2.35	0.42
1:P:289:PRO:HG2	1:P:709:PHE:HB3	2.02	0.42
1:P:576:THR:CG2	1:P:592:LEU:HD22	2.50	0.42
1:Q:359:PRO:HD3	1:Q:366:TYR:CB	2.48	0.42
1:R:577:VAL:O	1:S:477:LEU:HD23	2.20	0.42
1:S:424:ALA:O	1:S:729:THR:HA	2.19	0.42
1:T:279:ASP:O	1:T:357:THR:HA	2.20	0.42
1:U:279:ASP:O	1:U:357:THR:HA	2.20	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:U:289:PRO:HG2	1:U:709:PHE:HB3	2.02	0.42
1:V:576:THR:CG2	1:V:592:LEU:HD22	2.50	0.42
1:X:624:LYS:HE3	1:X:637:HIS:HE1	1.83	0.42
1:Y:477:LEU:H	1:Y:594:VAL:HG22	1.85	0.42
1:Z:279:ASP:O	1:Z:357:THR:HA	2.20	0.42
1:Z:309:PHE:HB3	1:Z:410:PHE:CE2	2.54	0.42
1:Z:477:LEU:H	1:Z:594:VAL:HG22	1.85	0.42
1:a:279:ASP:O	1:a:357:THR:HA	2.20	0.42
1:b:424:ALA:O	1:b:729:THR:HA	2.19	0.42
1:c:576:THR:CG2	1:c:592:LEU:HD22	2.50	0.42
1:f:424:ALA:O	1:f:729:THR:HA	2.19	0.42
1:g:424:ALA:O	1:g:729:THR:HA	2.19	0.42
1:g:477:LEU:H	1:g:594:VAL:HG22	1.85	0.42
1:i:289:PRO:HG2	1:i:709:PHE:HB3	2.02	0.42
1:i:582:ASN:O	1:j:491:TYR:HB2	2.19	0.42
1:i:689:LYS:HG3	1:j:397:PHE:CE1	2.54	0.42
1:i:708:MET:HE1	1:i:720:ASP:N	2.35	0.42
1:j:289:PRO:HG2	1:j:709:PHE:HB3	2.02	0.42
1:j:689:LYS:HG3	1:k:397:PHE:CE1	2.54	0.42
1:k:279:ASP:O	1:k:357:THR:HA	2.20	0.42
1:m:624:LYS:HE3	1:m:637:HIS:HE1	1.83	0.42
1:p:576:THR:CG2	1:p:592:LEU:HD22	2.50	0.42
1:v:331:ASN:HD22	1:v:669:GLN:HE22	1.65	0.42
1:y:477:LEU:H	1:y:594:VAL:HG22	1.85	0.42
1:z:483:ALA:HB3	1:z:529:LEU:HD13	2.00	0.42
1:z:576:THR:CG2	1:z:592:LEU:HD22	2.50	0.42
1:1:577:VAL:O	1:2:477:LEU:HD23	2.20	0.42
1:2:437:VAL:HG12	1:2:438:ASP:O	2.19	0.42
1:4:289:PRO:HG2	1:4:709:PHE:HB3	2.02	0.42
1:5:279:ASP:O	1:5:357:THR:HA	2.20	0.42
1:5:577:VAL:O	1:6:477:LEU:HD23	2.20	0.42
1:6:477:LEU:H	1:6:594:VAL:HG22	1.85	0.42
1:7:424:ALA:O	1:7:729:THR:HA	2.19	0.42
1:A:279:ASP:O	1:A:357:THR:HA	2.20	0.42
1:A:477:LEU:H	1:A:594:VAL:HG22	1.85	0.42
1:A:576:THR:CG2	1:A:592:LEU:HD22	2.50	0.42
1:C:239:THR:HG1	1:C:241:ARG:HH12	1.59	0.42
1:C:359:PRO:HD3	1:C:366:TYR:CB	2.48	0.42
1:C:424:ALA:O	1:C:729:THR:HA	2.19	0.42
1:D:576:THR:CG2	1:D:592:LEU:HD22	2.50	0.42
1:H:279:ASP:O	1:H:357:THR:HA	2.20	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:577:VAL:O	1:W:477:LEU:HD23	2.20	0.42
1:I:289:PRO:HG2	1:I:709:PHE:HB3	2.02	0.42
1:K:444:PHE:HA	1:K:455:PHE:CD1	2.51	0.42
1:L:477:LEU:H	1:L:594:VAL:HG22	1.85	0.42
1:M:624:LYS:HE2	1:M:624:LYS:HB2	1.87	0.42
1:T:491:TYR:HB2	1:l:582:ASN:O	2.19	0.42
1:T:624:LYS:HE3	1:T:637:HIS:HE1	1.83	0.42
1:X:576:THR:CG2	1:X:592:LEU:HD22	2.50	0.42
1:Y:424:ALA:O	1:Y:729:THR:HA	2.19	0.42
1:b:239:THR:HG1	1:b:241:ARG:HH12	1.59	0.42
1:b:437:VAL:HG12	1:b:438:ASP:O	2.19	0.42
1:c:491:TYR:HB2	1:p:582:ASN:O	2.19	0.42
1:e:477:LEU:H	1:e:594:VAL:HG22	1.85	0.42
1:e:576:THR:CG2	1:e:592:LEU:HD22	2.50	0.42
1:g:483:ALA:HB3	1:g:529:LEU:HD13	2.01	0.42
1:h:289:PRO:HG2	1:h:709:PHE:HB3	2.02	0.42
1:i:397:PHE:CE1	1:k:689:LYS:HG3	2.55	0.42
1:j:477:LEU:H	1:j:594:VAL:HG22	1.85	0.42
1:j:576:THR:CG2	1:j:592:LEU:HD22	2.50	0.42
1:k:576:THR:CG2	1:k:592:LEU:HD22	2.50	0.42
1:n:279:ASP:O	1:n:357:THR:HA	2.20	0.42
1:o:437:VAL:HG12	1:o:438:ASP:O	2.19	0.42
1:o:576:THR:CG2	1:o:592:LEU:HD22	2.50	0.42
1:q:577:VAL:O	1:r:477:LEU:HD23	2.20	0.42
1:r:424:ALA:O	1:r:729:THR:HA	2.19	0.42
1:t:626:HIS:O	1:t:628:SER:N	2.41	0.42
1:u:289:PRO:HG2	1:u:709:PHE:HB3	2.02	0.42
1:u:576:THR:CG2	1:u:592:LEU:HD22	2.50	0.42
1:u:577:VAL:O	1:v:477:LEU:HD23	2.20	0.42
1:v:477:LEU:H	1:v:594:VAL:HG22	1.85	0.42
1:v:576:THR:CG2	1:v:592:LEU:HD22	2.50	0.42
1:x:577:VAL:O	1:y:477:LEU:HD23	2.20	0.42
1:y:444:PHE:HA	1:y:455:PHE:CD1	2.51	0.42
1:z:279:ASP:O	1:z:357:THR:HA	2.20	0.42
1:z:477:LEU:H	1:z:594:VAL:HG22	1.85	0.42
1:1:279:ASP:O	1:1:357:THR:HA	2.20	0.42
1:1:576:THR:CG2	1:1:592:LEU:HD22	2.50	0.42
1:2:279:ASP:O	1:2:357:THR:HA	2.20	0.42
1:6:359:PRO:CD	1:6:366:TYR:HB3	2.47	0.42
1:7:477:LEU:H	1:7:594:VAL:HG22	1.85	0.42
1:8:279:ASP:O	1:8:357:THR:HA	2.20	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:8:309:PHE:HB3	1:8:410:PHE:CE2	2.54	0.42
1:8:477:LEU:H	1:8:594:VAL:HG22	1.85	0.42
1:B:279:ASP:O	1:B:357:THR:HA	2.20	0.42
1:C:231:MET:H	1:C:231:MET:CE	2.33	0.42
1:C:576:THR:CG2	1:C:592:LEU:HD22	2.50	0.42
1:F:444:PHE:HA	1:F:455:PHE:CD1	2.51	0.42
1:I:576:THR:CG2	1:I:592:LEU:HD22	2.50	0.42
1:J:279:ASP:O	1:J:357:THR:HA	2.20	0.42
1:N:231:MET:H	1:N:231:MET:CE	2.33	0.42
1:N:582:ASN:O	1:P:491:TYR:HB2	2.20	0.42
1:O:486:GLY:O	1:O:527:SER:OG	2.27	0.42
1:P:477:LEU:H	1:P:594:VAL:HG22	1.85	0.42
1:S:291:ASP:OD2	1:d:396:TYR:OH	2.36	0.42
1:U:424:ALA:O	1:U:729:THR:HA	2.19	0.42
1:V:359:PRO:HD3	1:V:366:TYR:CB	2.48	0.42
1:W:437:VAL:HG12	1:W:438:ASP:O	2.19	0.42
1:W:477:LEU:H	1:W:594:VAL:HG22	1.85	0.42
1:W:483:ALA:HB3	1:W:529:LEU:HD13	2.01	0.42
1:X:289:PRO:HG2	1:X:709:PHE:HB3	2.02	0.42
1:X:437:VAL:HG12	1:X:438:ASP:O	2.19	0.42
1:Y:291:ASP:OD2	1:4:396:TYR:OH	2.36	0.42
1:d:279:ASP:O	1:d:357:THR:HA	2.20	0.42
1:d:309:PHE:HB3	1:d:410:PHE:CE2	2.54	0.42
1:d:437:VAL:HG12	1:d:438:ASP:O	2.19	0.42
1:d:576:THR:CG2	1:d:592:LEU:HD22	2.50	0.42
1:f:359:PRO:HD3	1:f:366:TYR:CB	2.48	0.42
1:f:359:PRO:CD	1:f:366:TYR:HB3	2.47	0.42
1:g:231:MET:H	1:g:231:MET:CE	2.33	0.42
1:i:231:MET:H	1:i:231:MET:CE	2.33	0.42
1:j:359:PRO:HD3	1:j:366:TYR:CB	2.48	0.42
1:j:513:GLN:HA	1:j:514:PRO:HA	1.80	0.42
1:k:424:ALA:O	1:k:729:THR:HA	2.19	0.42
1:l:513:GLN:HE21	1:l:532:GLN:HG2	1.85	0.42
1:o:624:LYS:HE3	1:o:637:HIS:HE1	1.83	0.42
1:p:359:PRO:HD3	1:p:366:TYR:CB	2.48	0.42
1:r:279:ASP:O	1:r:357:THR:HA	2.20	0.42
1:s:279:ASP:O	1:s:357:THR:HA	2.20	0.42
1:s:289:PRO:HG2	1:s:709:PHE:HB3	2.02	0.42
1:x:359:PRO:HD3	1:x:366:TYR:CB	2.48	0.42
1:y:309:PHE:HB3	1:y:410:PHE:CE2	2.54	0.42
1:y:624:LYS:HE2	1:y:624:LYS:HB2	1.87	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:z:309:PHE:HB3	1:z:410:PHE:CE2	2.54	0.42
1:z:689:LYS:HA	1:z:689:LYS:HD2	1.90	0.42
1:3:278:PHE:HD1	1:3:366:TYR:HH	1.66	0.42
1:5:444:PHE:HA	1:5:455:PHE:CD1	2.51	0.42
1:A:477:LEU:HD23	1:I:577:VAL:O	2.20	0.42
1:B:231:MET:H	1:B:231:MET:CE	2.33	0.42
1:B:396:TYR:OH	1:C:291:ASP:OD2	2.36	0.42
1:C:708:MET:HE1	1:C:720:ASP:N	2.35	0.42
1:D:231:MET:H	1:D:231:MET:CE	2.33	0.42
1:E:437:VAL:HG12	1:E:438:ASP:O	2.19	0.42
1:E:576:THR:CG2	1:E:592:LEU:HD22	2.50	0.42
1:F:477:LEU:HD23	1:Q:577:VAL:O	2.20	0.42
1:H:444:PHE:HA	1:H:455:PHE:CD1	2.51	0.42
1:I:513:GLN:HE21	1:I:532:GLN:HG2	1.85	0.42
1:I:715:GLY:O	1:J:662:LYS:NZ	2.53	0.42
1:M:221:SER:HG	1:M:313:ASN:H	1.67	0.42
1:O:513:GLN:HE21	1:O:532:GLN:HG2	1.85	0.42
1:O:582:ASN:O	1:m:491:TYR:HB2	2.19	0.42
1:S:309:PHE:HB3	1:S:410:PHE:CE2	2.54	0.42
1:S:477:LEU:H	1:S:594:VAL:HG22	1.85	0.42
1:T:477:LEU:H	1:T:594:VAL:HG22	1.85	0.42
1:T:486:GLY:O	1:T:527:SER:OG	2.27	0.42
1:T:582:ASN:O	1:d:491:TYR:HB2	2.20	0.42
1:V:279:ASP:O	1:V:357:THR:HA	2.20	0.42
1:W:359:PRO:HD3	1:W:366:TYR:CB	2.48	0.42
1:W:689:LYS:HG3	1:Y:397:PHE:CE1	2.55	0.42
1:X:231:MET:H	1:X:231:MET:CE	2.33	0.42
1:Y:231:MET:H	1:Y:231:MET:CE	2.33	0.42
1:a:289:PRO:HG2	1:a:709:PHE:HB3	2.02	0.42
1:b:231:MET:H	1:b:231:MET:CE	2.33	0.42
1:b:359:PRO:HD3	1:b:366:TYR:CB	2.48	0.42
1:b:359:PRO:CD	1:b:366:TYR:HB3	2.47	0.42
1:c:359:PRO:CD	1:c:366:TYR:HB3	2.47	0.42
1:d:289:PRO:HG2	1:d:709:PHE:HB3	2.02	0.42
1:e:359:PRO:CD	1:e:366:TYR:HB3	2.47	0.42
1:f:491:TYR:HB2	1:g:582:ASN:O	2.19	0.42
1:g:359:PRO:HD3	1:g:366:TYR:CB	2.48	0.42
1:g:576:THR:CG2	1:g:592:LEU:HD22	2.50	0.42
1:g:708:MET:HE1	1:g:720:ASP:N	2.35	0.42
1:i:624:LYS:HE3	1:i:637:HIS:HE1	1.83	0.42
1:k:231:MET:H	1:k:231:MET:CE	2.33	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:m:361:PHE:HA	1:m:362:PRO:HD3	1.91	0.42
1:m:582:ASN:O	1:n:491:TYR:HB2	2.20	0.42
1:n:396:TYR:OH	1:r:291:ASP:OD2	2.36	0.42
1:n:576:THR:CG2	1:n:592:LEU:HD22	2.50	0.42
1:o:231:MET:H	1:o:231:MET:CE	2.33	0.42
1:o:289:PRO:HG2	1:o:709:PHE:HB3	2.02	0.42
1:p:279:ASP:O	1:p:357:THR:HA	2.20	0.42
1:q:477:LEU:H	1:q:594:VAL:HG22	1.85	0.42
1:q:491:TYR:HB2	1:s:582:ASN:O	2.19	0.42
1:q:576:THR:CG2	1:q:592:LEU:HD22	2.50	0.42
1:q:582:ASN:O	1:r:491:TYR:HB2	2.19	0.42
1:s:424:ALA:O	1:s:729:THR:HA	2.19	0.42
1:u:513:GLN:HE21	1:u:532:GLN:HG2	1.85	0.42
1:u:715:GLY:O	1:2:662:LYS:NZ	2.53	0.42
1:v:231:MET:H	1:v:231:MET:CE	2.33	0.42
1:v:279:ASP:O	1:v:357:THR:HA	2.20	0.42
1:v:624:LYS:HE3	1:v:637:HIS:HE1	1.83	0.42
1:w:477:LEU:H	1:w:594:VAL:HG22	1.85	0.42
1:y:513:GLN:HE21	1:y:532:GLN:HG2	1.85	0.42
1:1:231:MET:H	1:1:231:MET:CE	2.33	0.42
1:1:359:PRO:HD3	1:1:366:TYR:CB	2.48	0.42
1:2:248:TYR:OH	1:2:368:LEU:O	2.26	0.42
1:2:513:GLN:HA	1:2:514:PRO:HA	1.80	0.42
1:7:624:LYS:HE3	1:7:637:HIS:HE1	1.83	0.42
1:A:231:MET:H	1:A:231:MET:CE	2.33	0.42
1:B:359:PRO:HD3	1:B:366:TYR:CB	2.48	0.42
1:C:474:PRO:HB2	1:M:598:LEU:CD2	2.50	0.42
1:D:424:ALA:O	1:D:729:THR:HA	2.19	0.42
1:D:513:GLN:HE21	1:D:532:GLN:HG2	1.85	0.42
1:D:624:LYS:HE3	1:D:637:HIS:HE1	1.83	0.42
1:F:513:GLN:HE21	1:F:532:GLN:HG2	1.85	0.42
1:G:359:PRO:CD	1:G:366:TYR:HB3	2.47	0.42
1:I:279:ASP:O	1:I:357:THR:HA	2.20	0.42
1:J:513:GLN:HA	1:J:514:PRO:HA	1.80	0.42
1:K:598:LEU:CD2	1:a:474:PRO:HB2	2.50	0.42
1:L:309:PHE:HB3	1:L:410:PHE:CE2	2.54	0.42
1:M:231:MET:H	1:M:231:MET:CE	2.33	0.42
1:M:279:ASP:O	1:M:357:THR:HA	2.20	0.42
1:N:359:PRO:HD3	1:N:366:TYR:CB	2.48	0.42
1:N:624:LYS:HE3	1:N:637:HIS:HE1	1.83	0.42
1:O:231:MET:H	1:O:231:MET:CE	2.33	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:R:477:LEU:H	1:R:594:VAL:HG22	1.85	0.42
1:R:491:TYR:HB2	1:U:582:ASN:O	2.19	0.42
1:R:576:THR:CG2	1:R:592:LEU:HD22	2.50	0.42
1:S:279:ASP:O	1:S:357:THR:HA	2.20	0.42
1:V:708:MET:HE1	1:V:720:ASP:N	2.35	0.42
1:W:289:PRO:HG2	1:W:709:PHE:HB3	2.02	0.42
1:a:359:PRO:HD3	1:a:366:TYR:CB	2.48	0.42
1:a:513:GLN:HE21	1:a:532:GLN:HG2	1.85	0.42
1:h:231:MET:H	1:h:231:MET:CE	2.33	0.42
1:i:477:LEU:H	1:i:594:VAL:HG22	1.85	0.42
1:j:715:GLY:O	1:x:662:LYS:NZ	2.53	0.42
1:l:231:MET:H	1:l:231:MET:CE	2.33	0.42
1:m:477:LEU:H	1:m:594:VAL:HG22	1.85	0.42
1:n:289:PRO:HG2	1:n:709:PHE:HB3	2.02	0.42
1:n:309:PHE:HB3	1:n:410:PHE:CE2	2.54	0.42
1:n:437:VAL:HG12	1:n:438:ASP:O	2.19	0.42
1:o:708:MET:HE1	1:o:720:ASP:N	2.35	0.42
1:r:477:LEU:H	1:r:594:VAL:HG22	1.85	0.42
1:s:513:GLN:HE21	1:s:532:GLN:HG2	1.85	0.42
1:w:477:LEU:HD23	1:y:577:VAL:O	2.20	0.42
1:y:289:PRO:HG2	1:y:709:PHE:HB3	2.02	0.42
1:3:289:PRO:HG2	1:3:709:PHE:HB3	2.02	0.42
1:3:474:PRO:HB2	1:4:598:LEU:CD2	2.50	0.42
1:5:576:THR:CG2	1:5:592:LEU:HD22	2.50	0.42
1:6:289:PRO:HG2	1:6:709:PHE:HB3	2.02	0.42
1:6:437:VAL:HG12	1:6:438:ASP:O	2.19	0.42
1:E:477:LEU:H	1:E:594:VAL:HG22	1.85	0.41
1:E:477:LEU:HD23	1:F:577:VAL:O	2.20	0.41
1:H:477:LEU:H	1:H:594:VAL:HG22	1.85	0.41
1:H:576:THR:CG2	1:H:592:LEU:HD22	2.50	0.41
1:J:715:GLY:O	1:a:662:LYS:NZ	2.53	0.41
1:K:286:HIS:HE1	1:K:677:VAL:HG11	1.85	0.41
1:K:309:PHE:HB3	1:K:410:PHE:CE2	2.54	0.41
1:M:513:GLN:HE21	1:M:532:GLN:HG2	1.85	0.41
1:N:686:GLU:HG3	1:N:728:LEU:HD13	2.02	0.41
1:P:309:PHE:HB3	1:P:410:PHE:CE2	2.54	0.41
1:P:715:GLY:O	1:Q:662:LYS:NZ	2.53	0.41
1:Q:286:HIS:HE1	1:Q:677:VAL:HG11	1.85	0.41
1:Q:513:GLN:HE21	1:Q:532:GLN:HG2	1.85	0.41
1:Q:576:THR:CG2	1:Q:592:LEU:HD22	2.50	0.41
1:R:513:GLN:HE21	1:R:532:GLN:HG2	1.85	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:R:582:ASN:O	1:S:491:TYR:HB2	2.19	0.41
1:S:576:THR:CG2	1:S:592:LEU:HD22	2.50	0.41
1:U:437:VAL:HG12	1:U:438:ASP:O	2.19	0.41
1:U:513:GLN:HE21	1:U:532:GLN:HG2	1.85	0.41
1:V:577:VAL:O	1:e:477:LEU:HD23	2.19	0.41
1:X:686:GLU:HG3	1:X:728:LEU:HD13	2.02	0.41
1:X:708:MET:HE1	1:X:720:ASP:N	2.35	0.41
1:Y:289:PRO:HG2	1:Y:709:PHE:HB3	2.02	0.41
1:b:477:LEU:H	1:b:594:VAL:HG22	1.85	0.41
1:c:424:ALA:O	1:c:729:THR:HA	2.19	0.41
1:c:437:VAL:HG12	1:c:438:ASP:O	2.19	0.41
1:c:477:LEU:HD23	1:p:577:VAL:O	2.19	0.41
1:f:231:MET:H	1:f:231:MET:CE	2.33	0.41
1:f:513:GLN:HA	1:f:514:PRO:HA	1.80	0.41
1:g:291:ASP:OD2	1:l:396:TYR:OH	2.36	0.41
1:g:474:PRO:HB2	1:h:598:LEU:CD2	2.50	0.41
1:g:662:LYS:NZ	1:k:715:GLY:O	2.53	0.41
1:h:513:GLN:HE21	1:h:532:GLN:HG2	1.85	0.41
1:h:624:LYS:HE2	1:h:624:LYS:HB2	1.87	0.41
1:i:359:PRO:HD3	1:i:366:TYR:CB	2.48	0.41
1:i:686:GLU:HG3	1:i:728:LEU:HD13	2.02	0.41
1:k:624:LYS:HE3	1:k:637:HIS:HE1	1.83	0.41
1:l:278:PHE:HD1	1:l:366:TYR:HH	1.65	0.41
1:o:361:PHE:HA	1:o:362:PRO:HD3	1.91	0.41
1:p:708:MET:HE1	1:p:720:ASP:N	2.35	0.41
1:q:513:GLN:HE21	1:q:532:GLN:HG2	1.85	0.41
1:r:309:PHE:HB3	1:r:410:PHE:CE2	2.54	0.41
1:r:444:PHE:HA	1:r:455:PHE:CD1	2.51	0.41
1:u:279:ASP:O	1:u:357:THR:HA	2.20	0.41
1:w:513:GLN:HA	1:w:514:PRO:HA	1.80	0.41
1:x:513:GLN:HE21	1:x:532:GLN:HG2	1.85	0.41
1:y:686:GLU:HG3	1:y:728:LEU:HD13	2.02	0.41
1:4:309:PHE:HB3	1:4:410:PHE:CE2	2.54	0.41
1:5:513:GLN:HE21	1:5:532:GLN:HG2	1.85	0.41
1:7:231:MET:H	1:7:231:MET:CE	2.33	0.41
1:7:289:PRO:HG2	1:7:709:PHE:HB3	2.02	0.41
1:8:437:VAL:HG12	1:8:438:ASP:O	2.19	0.41
1:B:477:LEU:H	1:B:594:VAL:HG22	1.85	0.41
1:C:486:GLY:O	1:C:527:SER:OG	2.27	0.41
1:C:582:ASN:O	1:b:491:TYR:HB2	2.19	0.41
1:D:708:MET:HE1	1:D:720:ASP:N	2.35	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:513:GLN:HA	1:E:514:PRO:HA	1.80	0.41
1:F:289:PRO:HG2	1:F:709:PHE:HB3	2.02	0.41
1:G:477:LEU:H	1:G:594:VAL:HG22	1.85	0.41
1:H:359:PRO:CD	1:H:366:TYR:HB3	2.47	0.41
1:H:513:GLN:HE21	1:H:532:GLN:HG2	1.85	0.41
1:K:576:THR:CG2	1:K:592:LEU:HD22	2.50	0.41
1:N:477:LEU:H	1:N:594:VAL:HG22	1.85	0.41
1:O:278:PHE:HD1	1:O:366:TYR:HH	1.65	0.41
1:P:513:GLN:HA	1:P:514:PRO:HA	1.80	0.41
1:Q:715:GLY:O	1:S:662:LYS:NZ	2.53	0.41
1:S:577:VAL:O	1:U:477:LEU:HD23	2.20	0.41
1:U:286:HIS:HE1	1:U:677:VAL:HG11	1.86	0.41
1:V:474:PRO:HB2	1:X:598:LEU:CD2	2.50	0.41
1:X:491:TYR:HB2	1:e:582:ASN:O	2.19	0.41
1:Y:624:LYS:HE3	1:Y:637:HIS:HE1	1.83	0.41
1:Y:715:GLY:O	1:4:662:LYS:NZ	2.54	0.41
1:Z:359:PRO:HD3	1:Z:366:TYR:CB	2.48	0.41
1:Z:437:VAL:HG12	1:Z:438:ASP:O	2.19	0.41
1:Z:513:GLN:HE21	1:Z:532:GLN:HG2	1.85	0.41
1:Z:513:GLN:HA	1:Z:514:PRO:HA	1.80	0.41
1:Z:662:LYS:NZ	1:a:715:GLY:O	2.53	0.41
1:e:424:ALA:O	1:e:729:THR:HA	2.19	0.41
1:e:437:VAL:HG12	1:e:438:ASP:O	2.19	0.41
1:f:477:LEU:H	1:f:594:VAL:HG22	1.85	0.41
1:f:513:GLN:HE21	1:f:532:GLN:HG2	1.85	0.41
1:f:576:THR:CG2	1:f:592:LEU:HD22	2.50	0.41
1:f:598:LEU:CD2	1:h:474:PRO:HB2	2.50	0.41
1:g:715:GLY:O	1:l:662:LYS:NZ	2.54	0.41
1:h:279:ASP:O	1:h:357:THR:HA	2.20	0.41
1:j:624:LYS:HE2	1:j:624:LYS:HB2	1.87	0.41
1:k:513:GLN:HE21	1:k:532:GLN:HG2	1.85	0.41
1:m:598:LEU:CD2	1:n:474:PRO:HB2	2.50	0.41
1:o:444:PHE:HA	1:o:455:PHE:CD1	2.51	0.41
1:o:598:LEU:CD2	1:p:474:PRO:HB2	2.50	0.41
1:o:686:GLU:HG3	1:o:728:LEU:HD13	2.03	0.41
1:p:513:GLN:HE21	1:p:532:GLN:HG2	1.85	0.41
1:p:662:LYS:NZ	1:6:715:GLY:O	2.53	0.41
1:q:278:PHE:HD1	1:q:366:TYR:HH	1.67	0.41
1:r:576:THR:CG2	1:r:592:LEU:HD22	2.50	0.41
1:r:577:VAL:O	1:s:477:LEU:HD23	2.20	0.41
1:r:662:LYS:NZ	1:x:715:GLY:O	2.53	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:s:286:HIS:HE1	1:s:677:VAL:HG11	1.86	0.41
1:t:359:PRO:CD	1:t:366:TYR:HB3	2.47	0.41
1:t:477:LEU:H	1:t:594:VAL:HG22	1.85	0.41
1:w:437:VAL:HG12	1:w:438:ASP:O	2.19	0.41
1:w:576:THR:CG2	1:w:592:LEU:HD22	2.50	0.41
1:x:286:HIS:HE1	1:x:677:VAL:HG11	1.86	0.41
1:1:477:LEU:H	1:1:594:VAL:HG22	1.85	0.41
1:3:359:PRO:HD3	1:3:366:TYR:CB	2.48	0.41
1:3:624:LYS:HE2	1:3:624:LYS:HB2	1.87	0.41
1:5:477:LEU:H	1:5:594:VAL:HG22	1.85	0.41
1:6:359:PRO:HD3	1:6:366:TYR:CB	2.48	0.41
1:6:708:MET:HE1	1:6:720:ASP:N	2.35	0.41
1:8:359:PRO:HD3	1:8:366:TYR:CB	2.48	0.41
1:8:513:GLN:HE21	1:8:532:GLN:HG2	1.85	0.41
1:A:286:HIS:HE1	1:A:677:VAL:HG11	1.86	0.41
1:B:297:ASN:O	1:B:728:LEU:HD21	2.21	0.41
1:B:624:LYS:HE3	1:B:637:HIS:HE1	1.83	0.41
1:B:662:LYS:NZ	1:C:715:GLY:O	2.54	0.41
1:C:279:ASP:O	1:C:357:THR:HA	2.20	0.41
1:C:289:PRO:HG2	1:C:709:PHE:HB3	2.02	0.41
1:D:359:PRO:CD	1:D:366:TYR:HB3	2.47	0.41
1:E:286:HIS:HE1	1:E:677:VAL:HG11	1.86	0.41
1:F:686:GLU:HG3	1:F:728:LEU:HD13	2.03	0.41
1:G:278:PHE:HD1	1:G:366:TYR:HH	1.64	0.41
1:J:309:PHE:HB3	1:J:410:PHE:CE2	2.54	0.41
1:K:231:MET:H	1:K:231:MET:CE	2.33	0.41
1:K:474:PRO:HB2	1:8:598:LEU:CD2	2.51	0.41
1:M:474:PRO:HB2	1:b:598:LEU:CD2	2.51	0.41
1:M:491:TYR:HB2	1:b:582:ASN:O	2.19	0.41
1:N:286:HIS:HE1	1:N:677:VAL:HG11	1.85	0.41
1:O:309:PHE:HB3	1:O:410:PHE:CE2	2.54	0.41
1:Q:513:GLN:HA	1:Q:514:PRO:HA	1.80	0.41
1:R:289:PRO:HG2	1:R:709:PHE:HB3	2.02	0.41
1:R:359:PRO:CD	1:R:366:TYR:HB3	2.47	0.41
1:T:598:LEU:CD2	1:d:474:PRO:HB2	2.50	0.41
1:U:231:MET:H	1:U:231:MET:CE	2.33	0.41
1:V:477:LEU:HD23	1:X:577:VAL:O	2.19	0.41
1:W:708:MET:HE1	1:W:720:ASP:N	2.35	0.41
1:X:361:PHE:HA	1:X:362:PRO:HD3	1.91	0.41
1:X:477:LEU:HD23	1:e:577:VAL:O	2.19	0.41
1:Z:598:LEU:CD2	1:4:474:PRO:HB2	2.51	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Z:686:GLU:HG3	1:Z:728:LEU:HD13	2.03	0.41
1:a:286:HIS:HE1	1:a:677:VAL:HG11	1.86	0.41
1:a:624:LYS:HE2	1:a:624:LYS:HB2	1.87	0.41
1:b:513:GLN:HE21	1:b:532:GLN:HG2	1.85	0.41
1:b:576:THR:CG2	1:b:592:LEU:HD22	2.50	0.41
1:c:279:ASP:O	1:c:357:THR:HA	2.20	0.41
1:e:686:GLU:HG3	1:e:728:LEU:HD13	2.03	0.41
1:f:708:MET:HE1	1:f:720:ASP:N	2.34	0.41
1:g:289:PRO:HG2	1:g:709:PHE:HB3	2.02	0.41
1:g:491:TYR:HB2	1:h:582:ASN:O	2.19	0.41
1:h:708:MET:HE1	1:h:720:ASP:N	2.35	0.41
1:i:279:ASP:O	1:i:357:THR:HA	2.20	0.41
1:i:286:HIS:HE1	1:i:677:VAL:HG11	1.86	0.41
1:j:309:PHE:HB3	1:j:410:PHE:CE2	2.54	0.41
1:j:444:PHE:HA	1:j:455:PHE:CD1	2.51	0.41
1:k:662:LYS:NZ	1:w:715:GLY:O	2.53	0.41
1:l:662:LYS:NZ	1:n:715:GLY:O	2.53	0.41
1:q:686:GLU:HG3	1:q:728:LEU:HD13	2.02	0.41
1:s:437:VAL:HG12	1:s:438:ASP:O	2.19	0.41
1:v:286:HIS:HE1	1:v:677:VAL:HG11	1.86	0.41
1:v:715:GLY:O	1:w:662:LYS:NZ	2.54	0.41
1:w:286:HIS:HE1	1:w:677:VAL:HG11	1.86	0.41
1:w:289:PRO:HG2	1:w:709:PHE:HB3	2.02	0.41
1:y:279:ASP:O	1:y:357:THR:HA	2.20	0.41
1:1:598:LEU:CD2	1:2:474:PRO:HB2	2.51	0.41
1:2:309:PHE:HB3	1:2:410:PHE:CE2	2.54	0.41
1:2:513:GLN:HG2	1:2:532:GLN:HB3	2.03	0.41
1:2:715:GLY:O	1:3:662:LYS:NZ	2.53	0.41
1:3:286:HIS:HE1	1:3:677:VAL:HG11	1.86	0.41
1:3:513:GLN:HE21	1:3:532:GLN:HG2	1.85	0.41
1:3:715:GLY:O	1:8:662:LYS:NZ	2.53	0.41
1:4:286:HIS:HE1	1:4:677:VAL:HG11	1.86	0.41
1:8:686:GLU:HG3	1:8:728:LEU:HD13	2.03	0.41
1:A:289:PRO:HG2	1:A:709:PHE:HB3	2.02	0.41
1:C:686:GLU:HG3	1:C:728:LEU:HD13	2.02	0.41
1:E:289:PRO:HG2	1:E:709:PHE:HB3	2.02	0.41
1:E:708:MET:HE1	1:E:720:ASP:N	2.35	0.41
1:F:279:ASP:O	1:F:357:THR:HA	2.20	0.41
1:G:289:PRO:HG2	1:G:709:PHE:HB3	2.02	0.41
1:G:337:GLN:HG2	1:G:401:MET:HG2	2.03	0.41
1:G:577:VAL:O	1:I:477:LEU:HD23	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:297:ASN:O	1:I:728:LEU:HD21	2.21	0.41
1:J:513:GLN:HG2	1:J:532:GLN:HB3	2.03	0.41
1:M:286:HIS:HE1	1:M:677:VAL:HG11	1.86	0.41
1:M:359:PRO:CD	1:M:366:TYR:HB3	2.47	0.41
1:N:279:ASP:O	1:N:357:THR:HA	2.20	0.41
1:O:662:LYS:NZ	1:d:715:GLY:O	2.53	0.41
1:P:444:PHE:HA	1:P:455:PHE:CD1	2.51	0.41
1:Q:289:PRO:HG2	1:Q:709:PHE:HB3	2.02	0.41
1:R:686:GLU:HG3	1:R:728:LEU:HD13	2.03	0.41
1:S:444:PHE:HA	1:S:455:PHE:CD1	2.51	0.41
1:S:513:GLN:HE21	1:S:532:GLN:HG2	1.85	0.41
1:S:708:MET:HE1	1:S:720:ASP:N	2.34	0.41
1:U:297:ASN:O	1:U:728:LEU:HD21	2.21	0.41
1:U:576:THR:CG2	1:U:592:LEU:HD22	2.50	0.41
1:U:689:LYS:HA	1:U:689:LYS:HD2	1.90	0.41
1:V:477:LEU:H	1:V:594:VAL:HG22	1.85	0.41
1:V:513:GLN:HE21	1:V:532:GLN:HG2	1.85	0.41
1:V:662:LYS:NZ	1:W:715:GLY:O	2.53	0.41
1:W:279:ASP:O	1:W:357:THR:HA	2.20	0.41
1:X:286:HIS:HE1	1:X:677:VAL:HG11	1.86	0.41
1:X:297:ASN:O	1:X:728:LEU:HD21	2.21	0.41
1:Y:297:ASN:O	1:Y:728:LEU:HD21	2.21	0.41
1:Y:513:GLN:HE21	1:Y:532:GLN:HG2	1.85	0.41
1:Z:513:GLN:HG2	1:Z:532:GLN:HB3	2.03	0.41
1:c:359:PRO:HD3	1:c:366:TYR:CB	2.48	0.41
1:c:582:ASN:O	1:o:491:TYR:HB2	2.19	0.41
1:c:686:GLU:HG3	1:c:728:LEU:HD13	2.03	0.41
1:e:279:ASP:O	1:e:357:THR:HA	2.20	0.41
1:e:708:MET:HE1	1:e:720:ASP:N	2.35	0.41
1:f:396:TYR:OH	1:z:291:ASP:OD2	2.36	0.41
1:j:278:PHE:HD1	1:j:366:TYR:HH	1.64	0.41
1:p:289:PRO:HG2	1:p:709:PHE:HB3	2.02	0.41
1:p:477:LEU:H	1:p:594:VAL:HG22	1.85	0.41
1:q:289:PRO:HG2	1:q:709:PHE:HB3	2.02	0.41
1:q:359:PRO:CD	1:q:366:TYR:HB3	2.47	0.41
1:r:289:PRO:HG2	1:r:709:PHE:HB3	2.02	0.41
1:r:513:GLN:HE21	1:r:532:GLN:HG2	1.85	0.41
1:s:231:MET:H	1:s:231:MET:CE	2.33	0.41
1:s:576:THR:CG2	1:s:592:LEU:HD22	2.50	0.41
1:t:289:PRO:HG2	1:t:709:PHE:HB3	2.02	0.41
1:t:337:GLN:HG2	1:t:401:MET:HG2	2.03	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:x:576:THR:CG2	1:x:592:LEU:HD22	2.50	0.41
1:z:477:LEU:HD23	1:2:577:VAL:O	2.20	0.41
1:1:297:ASN:O	1:1:728:LEU:HD21	2.21	0.41
1:2:686:GLU:HG3	1:2:728:LEU:HD13	2.02	0.41
1:4:576:THR:CG2	1:4:592:LEU:HD22	2.50	0.41
1:5:278:PHE:HD1	1:5:366:TYR:HH	1.66	0.41
1:6:279:ASP:O	1:6:357:THR:HA	2.20	0.41
1:8:513:GLN:HG2	1:8:532:GLN:HB3	2.03	0.41
1:B:286:HIS:HE1	1:B:677:VAL:HG11	1.85	0.41
1:B:686:GLU:HG3	1:B:728:LEU:HD13	2.02	0.41
1:D:297:ASN:O	1:D:728:LEU:HD21	2.21	0.41
1:D:359:PRO:HD3	1:D:366:TYR:CB	2.48	0.41
1:F:474:PRO:HB2	1:Q:598:LEU:CD2	2.51	0.41
1:G:297:ASN:O	1:G:728:LEU:HD21	2.21	0.41
1:H:286:HIS:HE1	1:H:677:VAL:HG11	1.86	0.41
1:H:624:LYS:HE2	1:H:624:LYS:HB2	1.87	0.41
1:H:662:LYS:NZ	1:Z:715:GLY:O	2.54	0.41
1:H:715:GLY:O	1:I:662:LYS:NZ	2.53	0.41
1:I:278:PHE:HD1	1:I:366:TYR:HH	1.68	0.41
1:I:477:LEU:H	1:I:594:VAL:HG22	1.85	0.41
1:K:513:GLN:HG2	1:K:532:GLN:HB3	2.02	0.41
1:K:686:GLU:HG3	1:K:728:LEU:HD13	2.02	0.41
1:O:297:ASN:O	1:O:728:LEU:HD21	2.21	0.41
1:R:361:PHE:HA	1:R:362:PRO:HD3	1.91	0.41
1:S:289:PRO:HG2	1:S:709:PHE:HB3	2.02	0.41
1:U:477:LEU:H	1:U:594:VAL:HG22	1.85	0.41
1:V:598:LEU:CD2	1:e:474:PRO:HB2	2.51	0.41
1:X:444:PHE:HA	1:X:455:PHE:CD1	2.51	0.41
1:Z:297:ASN:O	1:Z:728:LEU:HD21	2.21	0.41
1:c:474:PRO:HB2	1:p:598:LEU:CD2	2.51	0.41
1:c:577:VAL:O	1:o:477:LEU:HD23	2.19	0.41
1:e:359:PRO:HD3	1:e:366:TYR:CB	2.48	0.41
1:e:486:GLY:O	1:e:527:SER:OG	2.27	0.41
1:e:513:GLN:HE21	1:e:532:GLN:HG2	1.85	0.41
1:f:582:ASN:O	1:h:491:TYR:HB2	2.19	0.41
1:g:239:THR:HG1	1:g:241:ARG:HH12	1.60	0.41
1:g:686:GLU:HG3	1:g:728:LEU:HD13	2.02	0.41
1:h:359:PRO:CD	1:h:366:TYR:HB3	2.47	0.41
1:j:396:TYR:OH	1:l:291:ASP:OD2	2.36	0.41
1:j:486:GLY:O	1:j:527:SER:OG	2.27	0.41
1:k:708:MET:HE1	1:k:720:ASP:N	2.35	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:l:309:PHE:HB3	1:l:410:PHE:CE2	2.54	0.41
1:n:689:LYS:HD2	1:n:689:LYS:HA	1.90	0.41
1:o:286:HIS:HE1	1:o:677:VAL:HG11	1.86	0.41
1:o:297:ASN:O	1:o:728:LEU:HD21	2.21	0.41
1:o:577:VAL:O	1:p:477:LEU:HD23	2.19	0.41
1:o:582:ASN:O	1:p:491:TYR:HB2	2.19	0.41
1:o:715:GLY:O	1:7:662:LYS:NZ	2.54	0.41
1:p:337:GLN:HG2	1:p:401:MET:HG2	2.03	0.41
1:q:231:MET:H	1:q:231:MET:CE	2.33	0.41
1:q:286:HIS:HE1	1:q:677:VAL:HG11	1.85	0.41
1:q:715:GLY:O	1:y:662:LYS:NZ	2.54	0.41
1:r:708:MET:HE1	1:r:720:ASP:N	2.34	0.41
1:s:297:ASN:O	1:s:728:LEU:HD21	2.21	0.41
1:t:278:PHE:HD1	1:t:366:TYR:HH	1.64	0.41
1:t:297:ASN:O	1:t:728:LEU:HD21	2.21	0.41
1:u:231:MET:H	1:u:231:MET:CE	2.33	0.41
1:u:297:ASN:O	1:u:728:LEU:HD21	2.21	0.41
1:u:396:TYR:OH	1:5:291:ASP:OD2	2.36	0.41
1:u:662:LYS:NZ	1:5:715:GLY:O	2.53	0.41
1:v:289:PRO:HG2	1:v:709:PHE:HB3	2.02	0.41
1:z:289:PRO:HG2	1:z:709:PHE:HB3	2.02	0.41
1:3:231:MET:H	1:3:231:MET:CE	2.33	0.41
1:3:477:LEU:H	1:3:594:VAL:HG22	1.85	0.41
1:4:477:LEU:H	1:4:594:VAL:HG22	1.85	0.41
1:5:286:HIS:HE1	1:5:677:VAL:HG11	1.86	0.41
1:5:359:PRO:CD	1:5:366:TYR:HB3	2.47	0.41
1:5:513:GLN:HA	1:5:514:PRO:HA	1.80	0.41
1:5:662:LYS:NZ	1:8:715:GLY:O	2.54	0.41
1:7:297:ASN:O	1:7:728:LEU:HD21	2.21	0.41
1:7:513:GLN:HE21	1:7:532:GLN:HG2	1.85	0.41
1:7:576:THR:CG2	1:7:592:LEU:HD22	2.50	0.41
1:8:297:ASN:O	1:8:728:LEU:HD21	2.21	0.41
1:8:483:ALA:HB3	1:8:529:LEU:HD13	2.00	0.41
1:B:513:GLN:HE21	1:B:532:GLN:HG2	1.85	0.41
1:B:598:LEU:CD2	1:J:474:PRO:HB2	2.51	0.41
1:C:662:LYS:NZ	1:D:715:GLY:O	2.53	0.41
1:D:474:PRO:HB2	1:P:598:LEU:CD2	2.51	0.41
1:E:337:GLN:HG2	1:E:401:MET:HG2	2.03	0.41
1:F:662:LYS:NZ	1:R:715:GLY:O	2.54	0.41
1:I:231:MET:H	1:I:231:MET:CE	2.33	0.41
1:J:577:VAL:O	1:L:477:LEU:HD23	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:686:GLU:HG3	1:J:728:LEU:HD13	2.03	0.41
1:J:708:MET:HE1	1:J:720:ASP:N	2.34	0.41
1:K:477:LEU:H	1:K:594:VAL:HG22	1.85	0.41
1:L:286:HIS:HE1	1:L:677:VAL:HG11	1.85	0.41
1:L:291:ASP:OD2	1:b:396:TYR:OH	2.36	0.41
1:L:513:GLN:HE21	1:L:532:GLN:HG2	1.85	0.41
1:N:337:GLN:HG2	1:N:401:MET:HG2	2.03	0.41
1:N:576:THR:CG2	1:N:592:LEU:HD22	2.50	0.41
1:Q:279:ASP:O	1:Q:357:THR:HA	2.20	0.41
1:Q:297:ASN:O	1:Q:728:LEU:HD21	2.21	0.41
1:R:231:MET:H	1:R:231:MET:CE	2.33	0.41
1:R:286:HIS:HE1	1:R:677:VAL:HG11	1.86	0.41
1:R:598:LEU:CD2	1:S:474:PRO:HB2	2.51	0.41
1:S:231:MET:N	1:S:231:MET:CE	2.84	0.41
1:T:662:LYS:NZ	1:i:715:GLY:O	2.54	0.41
1:U:231:MET:N	1:U:231:MET:CE	2.84	0.41
1:V:289:PRO:HG2	1:V:709:PHE:HB3	2.02	0.41
1:V:337:GLN:HG2	1:V:401:MET:HG2	2.03	0.41
1:V:396:TYR:OH	1:W:291:ASP:OD2	2.35	0.41
1:V:491:TYR:HB2	1:X:582:ASN:O	2.20	0.41
1:V:686:GLU:HG3	1:V:728:LEU:HD13	2.02	0.41
1:W:297:ASN:O	1:W:728:LEU:HD21	2.21	0.41
1:W:576:THR:CG2	1:W:592:LEU:HD22	2.50	0.41
1:Y:286:HIS:HE1	1:Y:677:VAL:HG11	1.85	0.41
1:Y:576:THR:CG2	1:Y:592:LEU:HD22	2.50	0.41
1:Z:474:PRO:HB2	1:3:598:LEU:CD2	2.51	0.41
1:Z:483:ALA:HB3	1:Z:529:LEU:HD13	2.00	0.41
1:Z:576:THR:CG2	1:Z:592:LEU:HD22	2.50	0.41
1:b:231:MET:N	1:b:231:MET:CE	2.84	0.41
1:b:708:MET:HE1	1:b:720:ASP:N	2.35	0.41
1:c:289:PRO:HG2	1:c:709:PHE:HB3	2.02	0.41
1:c:708:MET:HE1	1:c:720:ASP:N	2.35	0.41
1:f:297:ASN:O	1:f:728:LEU:HD21	2.21	0.41
1:g:279:ASP:O	1:g:357:THR:HA	2.20	0.41
1:h:286:HIS:HE1	1:h:677:VAL:HG11	1.86	0.41
1:i:576:THR:CG2	1:i:592:LEU:HD22	2.50	0.41
1:i:598:LEU:CD2	1:j:474:PRO:HB2	2.51	0.41
1:k:297:ASN:O	1:k:728:LEU:HD21	2.21	0.41
1:k:359:PRO:CD	1:k:366:TYR:HB3	2.47	0.41
1:l:297:ASN:O	1:l:728:LEU:HD21	2.21	0.41
1:l:477:LEU:H	1:l:594:VAL:HG22	1.85	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:m:289:PRO:HG2	1:m:709:PHE:HB3	2.02	0.41
1:p:444:PHE:HA	1:p:455:PHE:CD1	2.51	0.41
1:p:686:GLU:HG3	1:p:728:LEU:HD13	2.02	0.41
1:q:598:LEU:CD2	1:r:474:PRO:HB2	2.51	0.41
1:r:231:MET:N	1:r:231:MET:CE	2.84	0.41
1:r:297:ASN:O	1:r:728:LEU:HD21	2.21	0.41
1:s:231:MET:N	1:s:231:MET:CE	2.84	0.41
1:s:477:LEU:H	1:s:594:VAL:HG22	1.85	0.41
1:t:577:VAL:O	1:u:477:LEU:HD23	2.20	0.41
1:u:231:MET:N	1:u:231:MET:CE	2.84	0.41
1:u:477:LEU:H	1:u:594:VAL:HG22	1.85	0.41
1:v:513:GLN:HG2	1:v:532:GLN:HB3	2.03	0.41
1:w:297:ASN:O	1:w:728:LEU:HD21	2.21	0.41
1:w:337:GLN:HG2	1:w:401:MET:HG2	2.03	0.41
1:w:708:MET:HE1	1:w:720:ASP:N	2.35	0.41
1:x:289:PRO:HG2	1:x:709:PHE:HB3	2.02	0.41
1:z:513:GLN:HE21	1:z:532:GLN:HG2	1.85	0.41
1:1:513:GLN:HE21	1:1:532:GLN:HG2	1.85	0.41
1:1:624:LYS:HE3	1:1:637:HIS:HE1	1.83	0.41
1:1:686:GLU:HG3	1:1:728:LEU:HD13	2.03	0.41
1:2:337:GLN:HG2	1:2:401:MET:HG2	2.03	0.41
1:3:491:TYR:HB2	1:4:582:ASN:O	2.20	0.41
1:4:513:GLN:HG2	1:4:532:GLN:HB3	2.03	0.41
1:4:686:GLU:HG3	1:4:728:LEU:HD13	2.02	0.41
1:5:477:LEU:HD23	1:7:577:VAL:O	2.21	0.41
1:6:297:ASN:O	1:6:728:LEU:HD21	2.21	0.41
1:6:576:THR:CG2	1:6:592:LEU:HD22	2.50	0.41
1:7:286:HIS:HE1	1:7:677:VAL:HG11	1.85	0.41
1:7:689:LYS:HA	1:7:689:LYS:HD2	1.90	0.41
1:8:289:PRO:HG2	1:8:709:PHE:HB3	2.02	0.41
1:8:576:THR:CG2	1:8:592:LEU:HD22	2.50	0.41
1:A:513:GLN:HG2	1:A:532:GLN:HB3	2.03	0.41
1:A:662:LYS:NZ	1:B:715:GLY:O	2.54	0.41
1:B:477:LEU:HD23	1:L:577:VAL:O	2.19	0.41
1:C:491:TYR:HB2	1:M:582:ASN:O	2.20	0.41
1:D:477:LEU:HD23	1:P:577:VAL:O	2.20	0.41
1:D:662:LYS:NZ	1:E:715:GLY:O	2.53	0.41
1:E:297:ASN:O	1:E:728:LEU:HD21	2.21	0.41
1:G:576:THR:CG2	1:G:592:LEU:HD22	2.50	0.41
1:H:291:ASP:OD2	1:I:396:TYR:OH	2.36	0.41
1:H:513:GLN:HA	1:H:514:PRO:HA	1.80	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:297:ASN:O	1:J:728:LEU:HD21	2.21	0.41
1:J:337:GLN:HG2	1:J:401:MET:HG2	2.03	0.41
1:M:437:VAL:HG12	1:M:438:ASP:O	2.19	0.41
1:M:662:LYS:NZ	1:c:715:GLY:O	2.54	0.41
1:N:513:GLN:HE21	1:N:532:GLN:HG2	1.85	0.41
1:N:715:GLY:O	1:m:662:LYS:NZ	2.54	0.41
1:O:286:HIS:HE1	1:O:677:VAL:HG11	1.86	0.41
1:O:477:LEU:H	1:O:594:VAL:HG22	1.85	0.41
1:O:708:MET:HE1	1:O:720:ASP:N	2.35	0.41
1:P:486:GLY:O	1:P:527:SER:OG	2.27	0.41
1:R:474:PRO:HB2	1:U:598:LEU:CD2	2.51	0.41
1:S:286:HIS:HE1	1:S:677:VAL:HG11	1.86	0.41
1:S:297:ASN:O	1:S:728:LEU:HD21	2.21	0.41
1:T:289:PRO:HG2	1:T:709:PHE:HB3	2.02	0.41
1:T:513:GLN:HE21	1:T:532:GLN:HG2	1.85	0.41
1:T:686:GLU:HG3	1:T:728:LEU:HD13	2.03	0.41
1:Z:289:PRO:HG2	1:Z:709:PHE:HB3	2.02	0.41
1:Z:396:TYR:OH	1:a:291:ASP:OD2	2.36	0.41
1:a:231:MET:H	1:a:231:MET:CE	2.33	0.41
1:a:477:LEU:H	1:a:594:VAL:HG22	1.85	0.41
1:a:598:LEU:CD2	1:8:474:PRO:HB2	2.51	0.41
1:a:708:MET:HE1	1:a:720:ASP:N	2.35	0.41
1:b:513:GLN:HA	1:b:514:PRO:HA	1.80	0.41
1:c:513:GLN:HE21	1:c:532:GLN:HG2	1.85	0.41
1:d:286:HIS:HE1	1:d:677:VAL:HG11	1.85	0.41
1:e:715:GLY:O	1:h:662:LYS:NZ	2.54	0.41
1:f:231:MET:N	1:f:231:MET:CE	2.84	0.41
1:g:297:ASN:O	1:g:728:LEU:HD21	2.21	0.41
1:g:513:GLN:HE21	1:g:532:GLN:HG2	1.85	0.41
1:h:297:ASN:O	1:h:728:LEU:HD21	2.21	0.41
1:h:424:ALA:O	1:h:729:THR:HA	2.19	0.41
1:i:337:GLN:HG2	1:i:401:MET:HG2	2.03	0.41
1:i:513:GLN:HE21	1:i:532:GLN:HG2	1.85	0.41
1:l:286:HIS:HE1	1:l:677:VAL:HG11	1.86	0.41
1:m:686:GLU:HG3	1:m:728:LEU:HD13	2.02	0.41
1:n:662:LYS:NZ	1:r:715:GLY:O	2.53	0.41
1:o:279:ASP:O	1:o:357:THR:HA	2.20	0.41
1:p:396:TYR:OH	1:6:291:ASP:OD2	2.35	0.41
1:q:474:PRO:HB2	1:s:598:LEU:CD2	2.51	0.41
1:r:231:MET:H	1:r:231:MET:CE	2.33	0.41
1:r:286:HIS:HE1	1:r:677:VAL:HG11	1.86	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:s:689:LYS:HA	1:s:689:LYS:HD2	1.90	0.41
1:t:477:LEU:HD23	1:v:577:VAL:O	2.20	0.41
1:t:598:LEU:CD2	1:u:474:PRO:HB2	2.51	0.41
1:t:662:LYS:NZ	1:y:715:GLY:O	2.54	0.41
1:t:715:GLY:O	1:6:662:LYS:NZ	2.53	0.41
1:x:279:ASP:O	1:x:357:THR:HA	2.20	0.41
1:x:297:ASN:O	1:x:728:LEU:HD21	2.21	0.41
1:x:513:GLN:HA	1:x:514:PRO:HA	1.80	0.41
1:x:598:LEU:CD2	1:y:474:PRO:HB2	2.51	0.41
1:z:286:HIS:HE1	1:z:677:VAL:HG11	1.86	0.41
1:1:286:HIS:HE1	1:1:677:VAL:HG11	1.86	0.41
1:3:708:MET:HE1	1:3:720:ASP:N	2.35	0.41
1:4:279:ASP:O	1:4:357:THR:HA	2.20	0.41
1:A:474:PRO:HB2	1:I:598:LEU:CD2	2.51	0.41
1:B:289:PRO:HG2	1:B:709:PHE:HB3	2.02	0.41
1:B:513:GLN:HG2	1:B:532:GLN:HB3	2.02	0.41
1:C:297:ASN:O	1:C:728:LEU:HD21	2.21	0.41
1:E:231:MET:H	1:E:231:MET:CE	2.33	0.41
1:F:297:ASN:O	1:F:728:LEU:HD21	2.21	0.41
1:F:359:PRO:HD3	1:F:366:TYR:CB	2.48	0.41
1:G:286:HIS:HE1	1:G:677:VAL:HG11	1.85	0.41
1:G:598:LEU:CD2	1:I:474:PRO:HB2	2.51	0.41
1:G:686:GLU:HG3	1:G:728:LEU:HD13	2.03	0.41
1:G:715:GLY:O	1:W:662:LYS:NZ	2.53	0.41
1:I:231:MET:N	1:I:231:MET:CE	2.84	0.41
1:K:582:ASN:O	1:a:491:TYR:HB2	2.20	0.41
1:L:231:MET:N	1:L:231:MET:CE	2.84	0.41
1:L:289:PRO:HG2	1:L:709:PHE:HB3	2.02	0.41
1:L:337:GLN:HG2	1:L:401:MET:HG2	2.03	0.41
1:M:297:ASN:O	1:M:728:LEU:HD21	2.21	0.41
1:N:297:ASN:O	1:N:728:LEU:HD21	2.21	0.41
1:O:291:ASP:OD2	1:P:396:TYR:OH	2.36	0.41
1:P:231:MET:N	1:P:231:MET:CE	2.84	0.41
1:P:278:PHE:HD1	1:P:366:TYR:HH	1.65	0.41
1:S:231:MET:H	1:S:231:MET:CE	2.33	0.41
1:S:486:GLY:O	1:S:527:SER:OG	2.27	0.41
1:Z:337:GLN:HG2	1:Z:401:MET:HG2	2.03	0.41
1:a:686:GLU:HG3	1:a:728:LEU:HD13	2.03	0.41
1:b:297:ASN:O	1:b:728:LEU:HD21	2.21	0.41
1:b:513:GLN:HG2	1:b:532:GLN:HB3	2.03	0.41
1:b:686:GLU:HG3	1:b:728:LEU:HD13	2.02	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:c:231:MET:H	1:c:231:MET:CE	2.33	0.41
1:c:513:GLN:HG2	1:c:532:GLN:HB3	2.02	0.41
1:d:577:VAL:O	1:l:477:LEU:HD23	2.20	0.41
1:f:513:GLN:HG2	1:f:532:GLN:HB3	2.03	0.41
1:h:337:GLN:HG2	1:h:401:MET:HG2	2.03	0.41
1:i:297:ASN:O	1:i:728:LEU:HD21	2.21	0.41
1:j:686:GLU:HG3	1:j:728:LEU:HD13	2.02	0.41
1:k:337:GLN:HG2	1:k:401:MET:HG2	2.03	0.41
1:k:359:PRO:HD3	1:k:366:TYR:CB	2.48	0.41
1:l:708:MET:HE1	1:l:720:ASP:N	2.34	0.41
1:m:513:GLN:HE21	1:m:532:GLN:HG2	1.85	0.41
1:n:286:HIS:HE1	1:n:677:VAL:HG11	1.85	0.41
1:o:513:GLN:HE21	1:o:532:GLN:HG2	1.85	0.41
1:p:231:MET:N	1:p:231:MET:CE	2.84	0.41
1:p:715:GLY:O	1:q:662:LYS:NZ	2.54	0.41
1:t:686:GLU:HG3	1:t:728:LEU:HD13	2.03	0.41
1:u:598:LEU:CD2	1:v:474:PRO:HB2	2.51	0.41
1:v:662:LYS:NZ	1:1:715:GLY:O	2.54	0.41
1:z:231:MET:N	1:z:231:MET:CE	2.84	0.41
1:z:337:GLN:HG2	1:z:401:MET:HG2	2.03	0.41
1:z:396:TYR:OH	1:4:291:ASP:OD2	2.36	0.41
1:z:474:PRO:HB2	1:2:598:LEU:CD2	2.51	0.41
1:z:577:VAL:O	1:1:477:LEU:HD23	2.19	0.41
1:2:297:ASN:O	1:2:728:LEU:HD21	2.21	0.41
1:2:513:GLN:HE21	1:2:532:GLN:HG2	1.85	0.41
1:2:708:MET:HE1	1:2:720:ASP:N	2.34	0.41
1:3:231:MET:N	1:3:231:MET:CE	2.84	0.41
1:3:686:GLU:HG3	1:3:728:LEU:HD13	2.03	0.41
1:5:513:GLN:HG2	1:5:532:GLN:HB3	2.02	0.41
1:5:686:GLU:HG3	1:5:728:LEU:HD13	2.02	0.41
1:A:231:MET:N	1:A:231:MET:CE	2.84	0.41
1:A:233:ASN:OD1	1:A:233:ASN:N	2.47	0.41
1:A:291:ASP:OD2	1:E:396:TYR:OH	2.36	0.41
1:A:297:ASN:O	1:A:728:LEU:HD21	2.21	0.41
1:A:513:GLN:HA	1:A:514:PRO:HA	1.80	0.41
1:A:715:GLY:O	1:E:662:LYS:NZ	2.54	0.41
1:C:513:GLN:HE21	1:C:532:GLN:HG2	1.85	0.41
1:D:289:PRO:HG2	1:D:709:PHE:HB3	2.02	0.41
1:D:337:GLN:HG2	1:D:401:MET:HG2	2.03	0.41
1:D:396:TYR:OH	1:E:291:ASP:OD2	2.36	0.41
1:D:477:LEU:H	1:D:594:VAL:HG22	1.85	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:513:GLN:HG2	1:D:532:GLN:HB3	2.03	0.41
1:D:598:LEU:CD2	1:N:474:PRO:HB2	2.51	0.41
1:D:686:GLU:HG3	1:D:728:LEU:HD13	2.02	0.41
1:E:233:ASN:OD1	1:E:233:ASN:N	2.47	0.41
1:E:598:LEU:CD2	1:Q:474:PRO:HB2	2.51	0.41
1:F:239:THR:HG1	1:F:241:ARG:HH12	1.60	0.41
1:F:715:GLY:O	1:G:662:LYS:NZ	2.54	0.41
1:G:513:GLN:HG2	1:G:532:GLN:HB3	2.03	0.41
1:H:289:PRO:HG2	1:H:709:PHE:HB3	2.02	0.41
1:H:513:GLN:HG2	1:H:532:GLN:HB3	2.03	0.41
1:H:686:GLU:HG3	1:H:728:LEU:HD13	2.03	0.41
1:H:708:MET:HE1	1:H:720:ASP:N	2.35	0.41
1:J:513:GLN:HE21	1:J:532:GLN:HG2	1.85	0.41
1:J:598:LEU:CD2	1:L:474:PRO:HB2	2.51	0.41
1:K:279:ASP:O	1:K:357:THR:HA	2.20	0.41
1:K:359:PRO:HD3	1:K:366:TYR:CB	2.48	0.41
1:K:513:GLN:HE21	1:K:532:GLN:HG2	1.85	0.41
1:L:715:GLY:O	1:b:662:LYS:NZ	2.53	0.41
1:M:231:MET:N	1:M:231:MET:CE	2.84	0.41
1:M:337:GLN:HG2	1:M:401:MET:HG2	2.03	0.41
1:M:424:ALA:O	1:M:729:THR:HA	2.19	0.41
1:M:477:LEU:H	1:M:594:VAL:HG22	1.85	0.41
1:M:715:GLY:O	1:N:662:LYS:NZ	2.54	0.41
1:N:231:MET:N	1:N:231:MET:CE	2.84	0.41
1:N:598:LEU:CD2	1:P:474:PRO:HB2	2.51	0.41
1:O:598:LEU:CD2	1:m:474:PRO:HB2	2.51	0.41
1:P:286:HIS:HE1	1:P:677:VAL:HG11	1.85	0.41
1:P:359:PRO:CD	1:P:366:TYR:HB3	2.47	0.41
1:R:278:PHE:HD1	1:R:366:TYR:HH	1.68	0.41
1:R:662:LYS:NZ	1:V:715:GLY:O	2.54	0.41
1:S:715:GLY:O	1:d:662:LYS:NZ	2.53	0.41
1:T:286:HIS:HE1	1:T:677:VAL:HG11	1.86	0.41
1:T:297:ASN:O	1:T:728:LEU:HD21	2.21	0.41
1:T:474:PRO:HB2	1:l:598:LEU:CD2	2.51	0.41
1:V:231:MET:N	1:V:231:MET:CE	2.84	0.41
1:V:444:PHE:HA	1:V:455:PHE:CD1	2.51	0.41
1:V:513:GLN:HG2	1:V:532:GLN:HB3	2.03	0.41
1:X:231:MET:N	1:X:231:MET:CE	2.84	0.41
1:X:279:ASP:O	1:X:357:THR:HA	2.20	0.41
1:X:291:ASP:OD2	1:Y:396:TYR:OH	2.36	0.41
1:X:624:LYS:HE2	1:X:624:LYS:HB2	1.87	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:X:715:GLY:O	1:Y:662:LYS:NZ	2.54	0.41
1:Y:231:MET:N	1:Y:231:MET:CE	2.84	0.41
1:Y:340:THR:HG22	1:Y:643:VAL:HG22	2.03	0.41
1:Y:686:GLU:HG3	1:Y:728:LEU:HD13	2.02	0.41
1:Y:689:LYS:HA	1:Y:689:LYS:HD2	1.90	0.41
1:Z:239:THR:HG1	1:Z:241:ARG:HH12	1.60	0.41
1:a:231:MET:N	1:a:231:MET:CE	2.84	0.41
1:b:337:GLN:HG2	1:b:401:MET:HG2	2.03	0.41
1:c:689:LYS:HA	1:c:689:LYS:HD2	1.90	0.41
1:d:231:MET:N	1:d:231:MET:CE	2.84	0.41
1:d:477:LEU:H	1:d:594:VAL:HG22	1.85	0.41
1:e:231:MET:H	1:e:231:MET:CE	2.33	0.41
1:e:289:PRO:HG2	1:e:709:PHE:HB3	2.02	0.41
1:f:337:GLN:HG2	1:f:401:MET:HG2	2.03	0.41
1:f:686:GLU:HG3	1:f:728:LEU:HD13	2.03	0.41
1:h:231:MET:N	1:h:231:MET:CE	2.84	0.41
1:h:437:VAL:HG12	1:h:438:ASP:O	2.19	0.41
1:h:715:GLY:O	1:i:662:LYS:NZ	2.54	0.41
1:i:231:MET:N	1:i:231:MET:CE	2.84	0.41
1:i:340:THR:HG22	1:i:643:VAL:HG22	2.03	0.41
1:j:231:MET:N	1:j:231:MET:CE	2.84	0.41
1:j:513:GLN:HE21	1:j:532:GLN:HG2	1.85	0.41
1:k:289:PRO:HG2	1:k:709:PHE:HB3	2.02	0.41
1:k:396:TYR:OH	1:w:291:ASP:OD2	2.36	0.41
1:m:286:HIS:HE1	1:m:677:VAL:HG11	1.86	0.41
1:m:297:ASN:O	1:m:728:LEU:HD21	2.21	0.41
1:n:231:MET:N	1:n:231:MET:CE	2.84	0.41
1:o:231:MET:N	1:o:231:MET:CE	2.84	0.41
1:p:513:GLN:HG2	1:p:532:GLN:HB3	2.03	0.41
1:q:624:LYS:HB2	1:q:624:LYS:HE2	1.87	0.41
1:r:686:GLU:HG3	1:r:728:LEU:HD13	2.02	0.41
1:s:624:LYS:HE2	1:s:624:LYS:HB2	1.87	0.41
1:t:286:HIS:HE1	1:t:677:VAL:HG11	1.86	0.41
1:t:513:GLN:HG2	1:t:532:GLN:HB3	2.03	0.41
1:t:576:THR:CG2	1:t:592:LEU:HD22	2.50	0.41
1:u:340:THR:HG22	1:u:643:VAL:HG22	2.03	0.41
1:v:231:MET:N	1:v:231:MET:CE	2.84	0.41
1:v:291:ASP:OD2	1:w:396:TYR:OH	2.36	0.41
1:v:297:ASN:O	1:v:728:LEU:HD21	2.21	0.41
1:v:396:TYR:OH	1:1:291:ASP:OD2	2.36	0.41
1:v:689:LYS:HD2	1:v:689:LYS:HA	1.90	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:w:474:PRO:HB2	1:y:598:LEU:CD2	2.51	0.41
1:y:297:ASN:O	1:y:728:LEU:HD21	2.21	0.41
1:y:359:PRO:HD3	1:y:366:TYR:CB	2.48	0.41
1:z:598:LEU:CD2	1:1:474:PRO:HB2	2.51	0.41
1:1:513:GLN:HG2	1:1:532:GLN:HB3	2.03	0.41
1:3:291:ASP:OD2	1:8:396:TYR:OH	2.36	0.41
1:4:340:THR:HG22	1:4:643:VAL:HG22	2.03	0.41
1:4:359:PRO:HD3	1:4:366:TYR:CB	2.48	0.41
1:5:624:LYS:HE2	1:5:624:LYS:HB2	1.87	0.41
1:7:340:THR:HG22	1:7:643:VAL:HG22	2.03	0.41
1:7:686:GLU:HG3	1:7:728:LEU:HD13	2.02	0.41
1:8:239:THR:HG1	1:8:241:ARG:HH12	1.60	0.41
1:8:337:GLN:HG2	1:8:401:MET:HG2	2.03	0.41
1:8:513:GLN:HA	1:8:514:PRO:HA	1.80	0.41
1:A:513:GLN:HE21	1:A:532:GLN:HG2	1.85	0.41
1:A:577:VAL:O	1:G:477:LEU:HD23	2.20	0.41
1:A:598:LEU:CD2	1:G:474:PRO:HB2	2.51	0.41
1:B:359:PRO:CD	1:B:366:TYR:HB3	2.47	0.41
1:C:286:HIS:HE1	1:C:677:VAL:HG11	1.85	0.41
1:C:513:GLN:HG2	1:C:532:GLN:HB3	2.02	0.41
1:E:231:MET:N	1:E:231:MET:CE	2.84	0.41
1:E:474:PRO:HB2	1:F:598:LEU:CD2	2.51	0.41
1:E:513:GLN:HE21	1:E:532:GLN:HG2	1.85	0.41
1:I:286:HIS:HE1	1:I:677:VAL:HG11	1.86	0.41
1:I:340:THR:HG22	1:I:643:VAL:HG22	2.03	0.41
1:K:291:ASP:OD2	1:L:396:TYR:OH	2.36	0.41
1:N:340:THR:HG22	1:N:643:VAL:HG22	2.04	0.41
1:N:513:GLN:HG2	1:N:532:GLN:HB3	2.03	0.41
1:O:477:LEU:HD23	1:n:577:VAL:O	2.20	0.41
1:P:513:GLN:HE21	1:P:532:GLN:HG2	1.85	0.41
1:P:686:GLU:HG3	1:P:728:LEU:HD13	2.03	0.41
1:S:686:GLU:HG3	1:S:728:LEU:HD13	2.03	0.41
1:T:337:GLN:HG2	1:T:401:MET:HG2	2.03	0.41
1:U:513:GLN:HG2	1:U:532:GLN:HB3	2.03	0.41
1:U:624:LYS:HE2	1:U:624:LYS:HB2	1.87	0.41
1:W:231:MET:N	1:W:231:MET:CE	2.84	0.41
1:X:513:GLN:HA	1:X:514:PRO:HA	1.80	0.41
1:X:662:LYS:NZ	1:f:715:GLY:O	2.54	0.41
1:b:289:PRO:HG2	1:b:709:PHE:HB3	2.02	0.41
1:b:340:THR:HG22	1:b:643:VAL:HG22	2.03	0.41
1:b:715:GLY:O	1:o:662:LYS:NZ	2.54	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:c:486:GLY:O	1:c:527:SER:OG	2.27	0.41
1:c:598:LEU:CD2	1:o:474:PRO:HB2	2.50	0.41
1:e:286:HIS:HE1	1:e:677:VAL:HG11	1.85	0.41
1:e:513:GLN:HG2	1:e:532:GLN:HB3	2.03	0.41
1:f:340:THR:HG22	1:f:643:VAL:HG22	2.03	0.41
1:f:662:LYS:NZ	1:z:715:GLY:O	2.54	0.41
1:h:477:LEU:H	1:h:594:VAL:HG22	1.85	0.41
1:h:513:GLN:HG2	1:h:532:GLN:HB3	2.03	0.41
1:i:513:GLN:HA	1:i:514:PRO:HA	1.80	0.41
1:i:513:GLN:HG2	1:i:532:GLN:HB3	2.02	0.41
1:j:286:HIS:HE1	1:j:677:VAL:HG11	1.86	0.41
1:j:577:VAL:O	1:k:477:LEU:HD23	2.20	0.41
1:k:286:HIS:HE1	1:k:677:VAL:HG11	1.85	0.41
1:k:477:LEU:H	1:k:594:VAL:HG22	1.85	0.41
1:k:686:GLU:HG3	1:k:728:LEU:HD13	2.03	0.41
1:k:705:THR:HG22	1:k:713:GLU:OE2	2.21	0.41
1:l:705:THR:HG22	1:l:713:GLU:OE2	2.21	0.41
1:n:477:LEU:H	1:n:594:VAL:HG22	1.85	0.41
1:t:513:GLN:HA	1:t:514:PRO:HA	1.80	0.41
1:w:231:MET:H	1:w:231:MET:CE	2.33	0.41
1:w:598:LEU:CD2	1:x:474:PRO:HB2	2.51	0.41
1:z:361:PHE:HA	1:z:362:PRO:HD3	1.91	0.41
1:1:289:PRO:HG2	1:1:709:PHE:HB3	2.02	0.41
1:2:477:LEU:H	1:2:594:VAL:HG22	1.85	0.41
1:4:513:GLN:HE21	1:4:532:GLN:HG2	1.85	0.41
1:5:297:ASN:O	1:5:728:LEU:HD21	2.21	0.41
1:5:397:PHE:CE1	1:7:689:LYS:HG3	2.56	0.41
1:5:708:MET:HE1	1:5:720:ASP:N	2.35	0.41
1:6:231:MET:N	1:6:231:MET:CE	2.84	0.41
1:6:598:LEU:CD2	1:7:474:PRO:HB2	2.51	0.41
1:A:340:THR:HG22	1:A:643:VAL:HG22	2.03	0.40
1:A:689:LYS:HD2	1:A:689:LYS:HA	1.90	0.40
1:B:474:PRO:HB2	1:L:598:LEU:CD2	2.51	0.40
1:D:286:HIS:HE1	1:D:677:VAL:HG11	1.85	0.40
1:D:705:THR:HG22	1:D:713:GLU:OE2	2.21	0.40
1:F:513:GLN:HA	1:F:514:PRO:HA	1.80	0.40
1:G:231:MET:N	1:G:231:MET:CE	2.84	0.40
1:H:231:MET:N	1:H:231:MET:CE	2.84	0.40
1:H:297:ASN:O	1:H:728:LEU:HD21	2.21	0.40
1:H:337:GLN:HG2	1:H:401:MET:HG2	2.03	0.40
1:H:474:PRO:HB2	1:Y:598:LEU:CD2	2.51	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:705:THR:HG22	1:H:713:GLU:OE2	2.21	0.40
1:I:513:GLN:HG2	1:I:532:GLN:HB3	2.03	0.40
1:J:477:LEU:H	1:J:594:VAL:HG22	1.85	0.40
1:K:271:TYR:CE2	1:7:707:ILE:HD12	2.56	0.40
1:K:340:THR:HG22	1:K:643:VAL:HG22	2.04	0.40
1:M:513:GLN:HG2	1:M:532:GLN:HB3	2.03	0.40
1:O:686:GLU:HG3	1:O:728:LEU:HD13	2.02	0.40
1:O:705:THR:HG22	1:O:713:GLU:OE2	2.21	0.40
1:P:340:THR:HG22	1:P:643:VAL:HG22	2.03	0.40
1:R:231:MET:N	1:R:231:MET:CE	2.84	0.40
1:S:340:THR:HG22	1:S:643:VAL:HG22	2.03	0.40
1:T:705:THR:HG22	1:T:713:GLU:OE2	2.21	0.40
1:W:513:GLN:HE21	1:W:532:GLN:HG2	1.85	0.40
1:X:340:THR:HG22	1:X:643:VAL:HG22	2.03	0.40
1:X:474:PRO:HB2	1:e:598:LEU:CD2	2.50	0.40
1:X:513:GLN:HE21	1:X:532:GLN:HG2	1.85	0.40
1:a:705:THR:HG22	1:a:713:GLU:OE2	2.21	0.40
1:d:233:ASN:OD1	1:d:233:ASN:N	2.47	0.40
1:d:297:ASN:O	1:d:728:LEU:HD21	2.21	0.40
1:d:340:THR:HG22	1:d:643:VAL:HG22	2.03	0.40
1:d:513:GLN:HE21	1:d:532:GLN:HG2	1.85	0.40
1:f:289:PRO:HG2	1:f:709:PHE:HB3	2.02	0.40
1:g:513:GLN:HG2	1:g:532:GLN:HB3	2.03	0.40
1:i:474:PRO:HB2	1:k:598:LEU:CD2	2.51	0.40
1:j:297:ASN:O	1:j:728:LEU:HD21	2.21	0.40
1:j:340:THR:HG22	1:j:643:VAL:HG22	2.03	0.40
1:k:513:GLN:HG2	1:k:532:GLN:HB3	2.03	0.40
1:l:686:GLU:HG3	1:l:728:LEU:HD13	2.03	0.40
1:m:337:GLN:HG2	1:m:401:MET:HG2	2.03	0.40
1:m:705:THR:HG22	1:m:713:GLU:OE2	2.21	0.40
1:m:715:GLY:O	1:s:662:LYS:NZ	2.54	0.40
1:n:340:THR:HG22	1:n:643:VAL:HG22	2.03	0.40
1:o:513:GLN:HA	1:o:514:PRO:HA	1.80	0.40
1:q:231:MET:N	1:q:231:MET:CE	2.84	0.40
1:r:598:LEU:CD2	1:s:474:PRO:HB2	2.51	0.40
1:t:231:MET:N	1:t:231:MET:CE	2.84	0.40
1:t:705:THR:HG22	1:t:713:GLU:OE2	2.21	0.40
1:u:286:HIS:HE1	1:u:677:VAL:HG11	1.86	0.40
1:v:513:GLN:HE21	1:v:532:GLN:HG2	1.85	0.40
1:w:231:MET:N	1:w:231:MET:CE	2.84	0.40
1:z:624:LYS:HE2	1:z:624:LYS:HB2	1.87	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1:248:TYR:OH	1:1:368:LEU:O	2.26	0.40
1:2:289:PRO:HG2	1:2:709:PHE:HB3	2.02	0.40
1:3:705:THR:HG22	1:3:713:GLU:OE2	2.21	0.40
1:5:231:MET:N	1:5:231:MET:CE	2.84	0.40
1:5:289:PRO:HG2	1:5:709:PHE:HB3	2.02	0.40
1:5:705:THR:HG22	1:5:713:GLU:OE2	2.21	0.40
1:6:513:GLN:HE21	1:6:532:GLN:HG2	1.85	0.40
1:8:708:MET:HE1	1:8:720:ASP:N	2.35	0.40
1:A:361:PHE:HA	1:A:362:PRO:HD3	1.91	0.40
1:A:437:VAL:HG11	1:G:355:GLU:O	2.22	0.40
1:A:705:THR:HG22	1:A:713:GLU:OE2	2.21	0.40
1:B:248:TYR:OH	1:B:368:LEU:O	2.26	0.40
1:C:598:LEU:CD2	1:b:474:PRO:HB2	2.51	0.40
1:E:705:THR:HG22	1:E:713:GLU:OE2	2.21	0.40
1:G:705:THR:HG22	1:G:713:GLU:OE2	2.21	0.40
1:J:289:PRO:HG2	1:J:709:PHE:HB3	2.02	0.40
1:K:297:ASN:O	1:K:728:LEU:HD21	2.21	0.40
1:K:715:GLY:O	1:L:662:LYS:NZ	2.54	0.40
1:O:513:GLN:HG2	1:O:532:GLN:HB3	2.03	0.40
1:P:297:ASN:O	1:P:728:LEU:HD21	2.21	0.40
1:Q:477:LEU:H	1:Q:594:VAL:HG22	1.85	0.40
1:Q:489:ASP:OD1	1:Q:490:ASN:N	2.53	0.40
1:R:340:THR:HG22	1:R:643:VAL:HG22	2.04	0.40
1:S:598:LEU:CD2	1:U:474:PRO:HB2	2.51	0.40
1:T:715:GLY:O	1:U:662:LYS:NZ	2.54	0.40
1:U:715:GLY:O	1:e:662:LYS:NZ	2.54	0.40
1:V:286:HIS:HE1	1:V:677:VAL:HG11	1.86	0.40
1:V:297:ASN:O	1:V:728:LEU:HD21	2.21	0.40
1:V:705:THR:HG22	1:V:713:GLU:OE2	2.21	0.40
1:W:340:THR:HG22	1:W:643:VAL:HG22	2.03	0.40
1:W:705:THR:HG22	1:W:713:GLU:OE2	2.21	0.40
1:Y:514:PRO:HA	1:Y:532:GLN:O	2.22	0.40
1:Z:708:MET:HE1	1:Z:720:ASP:N	2.35	0.40
1:c:286:HIS:HE1	1:c:677:VAL:HG11	1.85	0.40
1:f:474:PRO:HB2	1:g:598:LEU:CD2	2.51	0.40
1:g:286:HIS:HE1	1:g:677:VAL:HG11	1.86	0.40
1:h:689:LYS:HD2	1:h:689:LYS:HA	1.90	0.40
1:j:359:PRO:CD	1:j:366:TYR:HB3	2.47	0.40
1:j:513:GLN:HG2	1:j:532:GLN:HB3	2.03	0.40
1:j:598:LEU:CD2	1:k:474:PRO:HB2	2.52	0.40
1:j:662:LYS:NZ	1:l:715:GLY:O	2.54	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:l:513:GLN:HG2	1:l:532:GLN:HB3	2.03	0.40
1:n:297:ASN:O	1:n:728:LEU:HD21	2.21	0.40
1:o:340:THR:HG22	1:o:643:VAL:HG22	2.04	0.40
1:o:513:GLN:HG2	1:o:532:GLN:HB3	2.03	0.40
1:p:286:HIS:HE1	1:p:677:VAL:HG11	1.86	0.40
1:p:705:THR:HG22	1:p:713:GLU:OE2	2.21	0.40
1:q:340:THR:HG22	1:q:643:VAL:HG22	2.04	0.40
1:s:513:GLN:HG2	1:s:532:GLN:HB3	2.03	0.40
1:t:231:MET:H	1:t:231:MET:CE	2.33	0.40
1:t:474:PRO:HB2	1:v:598:LEU:CD2	2.51	0.40
1:u:513:GLN:HG2	1:u:532:GLN:HB3	2.03	0.40
1:v:253:TYR:OH	1:v:395:GLU:OE1	2.38	0.40
1:v:340:THR:HG22	1:v:643:VAL:HG22	2.03	0.40
1:v:705:THR:HG22	1:v:713:GLU:OE2	2.21	0.40
1:w:233:ASN:OD1	1:w:233:ASN:N	2.47	0.40
1:w:513:GLN:HE21	1:w:532:GLN:HG2	1.85	0.40
1:w:514:PRO:HA	1:w:532:GLN:O	2.22	0.40
1:x:477:LEU:H	1:x:594:VAL:HG22	1.85	0.40
1:z:662:LYS:NZ	1:4:715:GLY:O	2.54	0.40
1:3:513:GLN:HA	1:3:514:PRO:HA	1.80	0.40
1:4:297:ASN:O	1:4:728:LEU:HD21	2.21	0.40
1:5:337:GLN:HG2	1:5:401:MET:HG2	2.03	0.40
1:7:231:MET:N	1:7:231:MET:CE	2.84	0.40
1:7:361:PHE:HA	1:7:362:PRO:HD3	1.91	0.40
1:B:708:MET:HE1	1:B:720:ASP:N	2.34	0.40
1:C:340:THR:HG22	1:C:643:VAL:HG22	2.04	0.40
1:E:514:PRO:HA	1:E:532:GLN:O	2.22	0.40
1:F:514:PRO:HA	1:F:532:GLN:O	2.22	0.40
1:F:708:MET:HE1	1:F:720:ASP:N	2.35	0.40
1:G:513:GLN:HA	1:G:514:PRO:HA	1.80	0.40
1:J:231:MET:N	1:J:231:MET:CE	2.84	0.40
1:M:514:PRO:HA	1:M:532:GLN:O	2.22	0.40
1:N:513:GLN:HA	1:N:514:PRO:HA	1.80	0.40
1:O:715:GLY:O	1:P:662:LYS:NZ	2.54	0.40
1:P:513:GLN:HG2	1:P:532:GLN:HB3	2.03	0.40
1:Q:705:THR:HG22	1:Q:713:GLU:OE2	2.21	0.40
1:R:513:GLN:HG2	1:R:532:GLN:HB3	2.03	0.40
1:R:624:LYS:HB2	1:R:624:LYS:HE2	1.87	0.40
1:T:340:THR:HG22	1:T:643:VAL:HG22	2.03	0.40
1:T:514:PRO:HA	1:T:532:GLN:O	2.22	0.40
1:W:278:PHE:HD1	1:W:366:TYR:HH	1.67	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:X:513:GLN:HG2	1:X:532:GLN:HB3	2.03	0.40
1:Z:231:MET:H	1:Z:231:MET:CE	2.33	0.40
1:c:297:ASN:O	1:c:728:LEU:HD21	2.21	0.40
1:c:337:GLN:HG2	1:c:401:MET:HG2	2.03	0.40
1:c:514:PRO:HA	1:c:532:GLN:O	2.22	0.40
1:e:337:GLN:HG2	1:e:401:MET:HG2	2.03	0.40
1:f:689:LYS:HA	1:f:689:LYS:HD2	1.90	0.40
1:g:231:MET:N	1:g:231:MET:CE	2.84	0.40
1:g:340:THR:HG22	1:g:643:VAL:HG22	2.03	0.40
1:l:231:MET:N	1:l:231:MET:CE	2.84	0.40
1:m:340:THR:HG22	1:m:643:VAL:HG22	2.03	0.40
1:m:514:PRO:HA	1:m:532:GLN:O	2.22	0.40
1:r:513:GLN:HG2	1:r:532:GLN:HB3	2.03	0.40
1:t:624:LYS:HE2	1:t:624:LYS:HB2	1.87	0.40
1:y:514:PRO:HA	1:y:532:GLN:O	2.22	0.40
1:1:359:PRO:CD	1:1:366:TYR:HB3	2.47	0.40
1:6:705:THR:HG22	1:6:713:GLU:OE2	2.21	0.40
1:A:337:GLN:HG2	1:A:401:MET:HG2	2.03	0.40
1:C:231:MET:N	1:C:231:MET:CE	2.84	0.40
1:F:286:HIS:HE1	1:F:677:VAL:HG11	1.86	0.40
1:G:340:THR:HG22	1:G:643:VAL:HG22	2.03	0.40
1:L:361:PHE:HA	1:L:362:PRO:HD3	1.91	0.40
1:M:359:PRO:HD3	1:M:366:TYR:CB	2.48	0.40
1:M:705:THR:HG22	1:M:713:GLU:OE2	2.21	0.40
1:O:231:MET:N	1:O:231:MET:CE	2.84	0.40
1:O:289:PRO:HG2	1:O:709:PHE:HB3	2.02	0.40
1:O:340:THR:HG22	1:O:643:VAL:HG22	2.03	0.40
1:O:700:ASN:OD1	1:O:700:ASN:N	2.55	0.40
1:R:297:ASN:O	1:R:728:LEU:HD21	2.21	0.40
1:S:513:GLN:HG2	1:S:532:GLN:HB3	2.03	0.40
1:T:513:GLN:HG2	1:T:532:GLN:HB3	2.03	0.40
1:U:340:THR:HG22	1:U:643:VAL:HG22	2.04	0.40
1:Y:513:GLN:HG2	1:Y:532:GLN:HB3	2.03	0.40
1:a:297:ASN:O	1:a:728:LEU:HD21	2.21	0.40
1:b:705:THR:HG22	1:b:713:GLU:OE2	2.21	0.40
1:c:662:LYS:NZ	1:s:715:GLY:O	2.54	0.40
1:c:705:THR:HG22	1:c:713:GLU:OE2	2.21	0.40
1:d:359:PRO:HD3	1:d:366:TYR:CB	2.48	0.40
1:d:598:LEU:CD2	1:l:474:PRO:HB2	2.51	0.40
1:e:231:MET:N	1:e:231:MET:CE	2.84	0.40
1:e:689:LYS:HA	1:e:689:LYS:HD2	1.90	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:f:239:THR:HG1	1:f:241:ARG:HH12	1.58	0.40
1:h:514:PRO:HA	1:h:532:GLN:O	2.22	0.40
1:i:514:PRO:HA	1:i:532:GLN:O	2.22	0.40
1:m:513:GLN:HG2	1:m:532:GLN:HB3	2.03	0.40
1:n:359:PRO:HD3	1:n:366:TYR:CB	2.48	0.40
1:n:513:GLN:HE21	1:n:532:GLN:HG2	1.85	0.40
1:o:624:LYS:HE2	1:o:624:LYS:HB2	1.87	0.40
1:o:705:THR:HG22	1:o:713:GLU:OE2	2.21	0.40
1:p:297:ASN:O	1:p:728:LEU:HD21	2.21	0.40
1:q:513:GLN:HG2	1:q:532:GLN:HB3	2.02	0.40
1:r:340:THR:HG22	1:r:643:VAL:HG22	2.04	0.40
1:u:514:PRO:HA	1:u:532:GLN:O	2.22	0.40
1:w:705:THR:HG22	1:w:713:GLU:OE2	2.21	0.40
1:x:489:ASP:OD1	1:x:490:ASN:N	2.53	0.40
1:x:705:THR:HG22	1:x:713:GLU:OE2	2.21	0.40
1:1:708:MET:HE1	1:1:720:ASP:N	2.34	0.40
1:2:231:MET:N	1:2:231:MET:CE	2.84	0.40
1:3:297:ASN:O	1:3:728:LEU:HD21	2.21	0.40
1:6:340:THR:HG22	1:6:643:VAL:HG22	2.03	0.40
1:7:514:PRO:HA	1:7:532:GLN:O	2.22	0.40
1:8:231:MET:H	1:8:231:MET:CE	2.33	0.40
1:8:231:MET:N	1:8:231:MET:CE	2.84	0.40
1:C:700:ASN:OD1	1:C:700:ASN:N	2.55	0.40
1:E:686:GLU:HG3	1:E:728:LEU:HD13	2.02	0.40
1:F:231:MET:H	1:F:231:MET:CE	2.33	0.40
1:F:361:PHE:HA	1:F:362:PRO:HD3	1.91	0.40
1:I:514:PRO:HA	1:I:532:GLN:O	2.22	0.40
1:J:359:PRO:HD3	1:J:366:TYR:CB	2.48	0.40
1:J:514:PRO:HA	1:J:532:GLN:O	2.22	0.40
1:L:231:MET:H	1:L:231:MET:CE	2.33	0.40
1:M:686:GLU:HG3	1:M:728:LEU:HD13	2.02	0.40
1:Q:337:GLN:HG2	1:Q:401:MET:HG2	2.03	0.40
1:Q:686:GLU:HG3	1:Q:728:LEU:HD13	2.02	0.40
1:U:514:PRO:HA	1:U:532:GLN:O	2.22	0.40
1:V:478:ASP:OD2	1:V:533:ASN:HB2	2.22	0.40
1:W:583:THR:CG2	1:Y:489:ASP:HB3	2.52	0.40
1:W:686:GLU:HG3	1:W:728:LEU:HD13	2.02	0.40
1:Z:231:MET:N	1:Z:231:MET:CE	2.84	0.40
1:b:286:HIS:HE1	1:b:677:VAL:HG11	1.85	0.40
1:c:231:MET:N	1:c:231:MET:CE	2.84	0.40
1:d:337:GLN:HG2	1:d:401:MET:HG2	2.03	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:e:297:ASN:O	1:e:728:LEU:HD21	2.21	0.40
1:e:514:PRO:HA	1:e:532:GLN:O	2.22	0.40
1:e:705:THR:HG22	1:e:713:GLU:OE2	2.21	0.40
1:f:286:HIS:HE1	1:f:677:VAL:HG11	1.85	0.40
1:f:705:THR:HG22	1:f:713:GLU:OE2	2.21	0.40
1:h:359:PRO:HD3	1:h:366:TYR:CB	2.48	0.40
1:h:705:THR:HG22	1:h:713:GLU:OE2	2.21	0.40
1:i:478:ASP:OD2	1:i:533:ASN:HB2	2.22	0.40
1:l:340:THR:HG22	1:l:643:VAL:HG22	2.03	0.40
1:l:700:ASN:OD1	1:l:700:ASN:N	2.55	0.40
1:n:337:GLN:HG2	1:n:401:MET:HG2	2.03	0.40
1:n:686:GLU:HG3	1:n:728:LEU:HD13	2.02	0.40
1:p:478:ASP:OD2	1:p:533:ASN:HB2	2.22	0.40
1:s:340:THR:HG22	1:s:643:VAL:HG22	2.04	0.40
1:u:337:GLN:HG2	1:u:401:MET:HG2	2.03	0.40
1:u:686:GLU:HG3	1:u:728:LEU:HD13	2.03	0.40
1:x:575:ARG:HE	1:x:590:SER:C	2.30	0.40
1:x:686:GLU:HG3	1:x:728:LEU:HD13	2.02	0.40
1:y:231:MET:H	1:y:231:MET:CE	2.33	0.40
1:y:286:HIS:HE1	1:y:677:VAL:HG11	1.86	0.40
1:y:708:MET:HE1	1:y:720:ASP:N	2.35	0.40
1:1:624:LYS:HB2	1:1:624:LYS:HE2	1.87	0.40
1:2:514:PRO:HA	1:2:532:GLN:O	2.22	0.40
1:7:513:GLN:HG2	1:7:532:GLN:HB3	2.03	0.40

There are no symmetry-related clashes.

5.3 Torsion angles [i](#)

5.3.1 Protein backbone [i](#)

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

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

Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles
1	1	517/732 (71%)	504 (98%)	13 (2%)	0	100 100

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	2	517/732 (71%)	504 (98%)	13 (2%)	0	100	100
1	3	517/732 (71%)	504 (98%)	13 (2%)	0	100	100
1	4	517/732 (71%)	504 (98%)	13 (2%)	0	100	100
1	5	517/732 (71%)	504 (98%)	13 (2%)	0	100	100
1	6	517/732 (71%)	504 (98%)	13 (2%)	0	100	100
1	7	517/732 (71%)	504 (98%)	13 (2%)	0	100	100
1	8	517/732 (71%)	504 (98%)	13 (2%)	0	100	100
1	A	517/732 (71%)	504 (98%)	13 (2%)	0	100	100
1	B	517/732 (71%)	504 (98%)	13 (2%)	0	100	100
1	C	517/732 (71%)	504 (98%)	13 (2%)	0	100	100
1	D	517/732 (71%)	504 (98%)	13 (2%)	0	100	100
1	E	517/732 (71%)	504 (98%)	13 (2%)	0	100	100
1	F	517/732 (71%)	504 (98%)	13 (2%)	0	100	100
1	G	517/732 (71%)	504 (98%)	13 (2%)	0	100	100
1	H	517/732 (71%)	504 (98%)	13 (2%)	0	100	100
1	I	517/732 (71%)	504 (98%)	13 (2%)	0	100	100
1	J	517/732 (71%)	504 (98%)	13 (2%)	0	100	100
1	K	517/732 (71%)	504 (98%)	13 (2%)	0	100	100
1	L	517/732 (71%)	504 (98%)	13 (2%)	0	100	100
1	M	517/732 (71%)	504 (98%)	13 (2%)	0	100	100
1	N	517/732 (71%)	504 (98%)	13 (2%)	0	100	100
1	O	517/732 (71%)	504 (98%)	13 (2%)	0	100	100
1	P	517/732 (71%)	504 (98%)	13 (2%)	0	100	100
1	Q	517/732 (71%)	504 (98%)	13 (2%)	0	100	100
1	R	517/732 (71%)	504 (98%)	13 (2%)	0	100	100
1	S	517/732 (71%)	504 (98%)	13 (2%)	0	100	100
1	T	517/732 (71%)	504 (98%)	13 (2%)	0	100	100
1	U	517/732 (71%)	504 (98%)	13 (2%)	0	100	100
1	V	517/732 (71%)	504 (98%)	13 (2%)	0	100	100
1	W	517/732 (71%)	504 (98%)	13 (2%)	0	100	100
1	X	517/732 (71%)	504 (98%)	13 (2%)	0	100	100

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	Y	517/732 (71%)	504 (98%)	13 (2%)	0	100	100
1	Z	517/732 (71%)	504 (98%)	13 (2%)	0	100	100
1	a	517/732 (71%)	504 (98%)	13 (2%)	0	100	100
1	b	517/732 (71%)	504 (98%)	13 (2%)	0	100	100
1	c	517/732 (71%)	504 (98%)	13 (2%)	0	100	100
1	d	517/732 (71%)	504 (98%)	13 (2%)	0	100	100
1	e	517/732 (71%)	504 (98%)	13 (2%)	0	100	100
1	f	517/732 (71%)	504 (98%)	13 (2%)	0	100	100
1	g	517/732 (71%)	504 (98%)	13 (2%)	0	100	100
1	h	517/732 (71%)	504 (98%)	13 (2%)	0	100	100
1	i	517/732 (71%)	504 (98%)	13 (2%)	0	100	100
1	j	517/732 (71%)	504 (98%)	13 (2%)	0	100	100
1	k	517/732 (71%)	504 (98%)	13 (2%)	0	100	100
1	l	517/732 (71%)	504 (98%)	13 (2%)	0	100	100
1	m	517/732 (71%)	504 (98%)	13 (2%)	0	100	100
1	n	517/732 (71%)	504 (98%)	13 (2%)	0	100	100
1	o	517/732 (71%)	504 (98%)	13 (2%)	0	100	100
1	p	517/732 (71%)	504 (98%)	13 (2%)	0	100	100
1	q	517/732 (71%)	504 (98%)	13 (2%)	0	100	100
1	r	517/732 (71%)	504 (98%)	13 (2%)	0	100	100
1	s	517/732 (71%)	504 (98%)	13 (2%)	0	100	100
1	t	517/732 (71%)	504 (98%)	13 (2%)	0	100	100
1	u	517/732 (71%)	504 (98%)	13 (2%)	0	100	100
1	v	517/732 (71%)	504 (98%)	13 (2%)	0	100	100
1	w	517/732 (71%)	504 (98%)	13 (2%)	0	100	100
1	x	517/732 (71%)	504 (98%)	13 (2%)	0	100	100
1	y	517/732 (71%)	504 (98%)	13 (2%)	0	100	100
1	z	517/732 (71%)	504 (98%)	13 (2%)	0	100	100
All	All	31020/43920 (71%)	30240 (98%)	780 (2%)	0	100	100

There are no Ramachandran outliers to report.

5.3.2 Protein sidechains [i](#)

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

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.

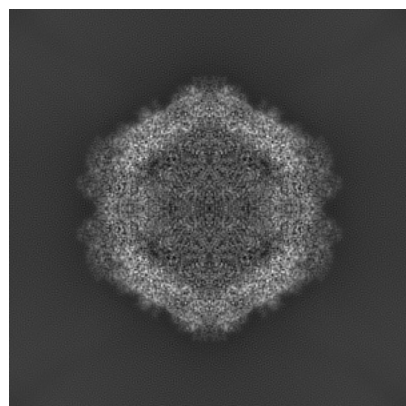
6 Map visualisation [i](#)

This section contains visualisations of the EMDB entry EMD-48181. These allow visual inspection of the internal detail of the map and identification of artifacts.

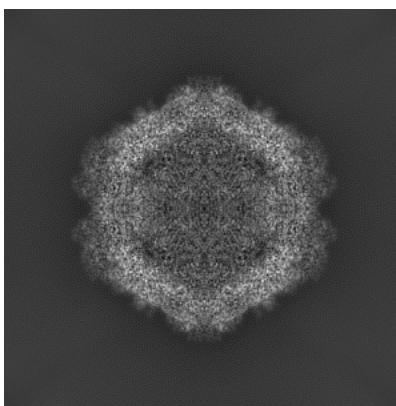
Images derived from a raw map, generated by summing the deposited half-maps, are presented below the corresponding image components of the primary map to allow further visual inspection and comparison with those of the primary map.

6.1 Orthogonal projections [i](#)

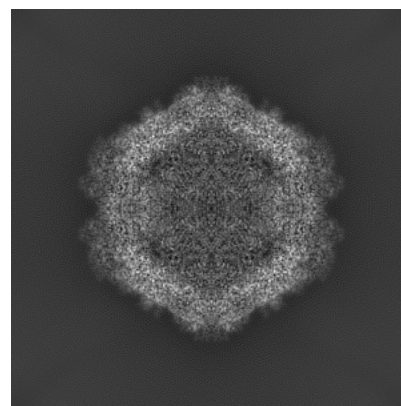
6.1.1 Primary map



X

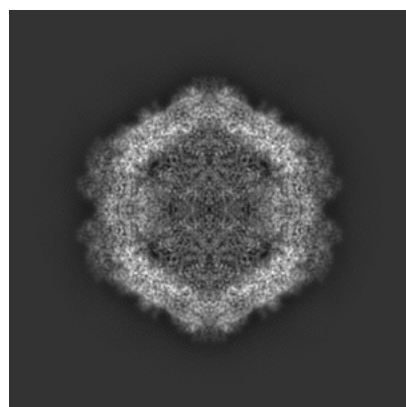


Y

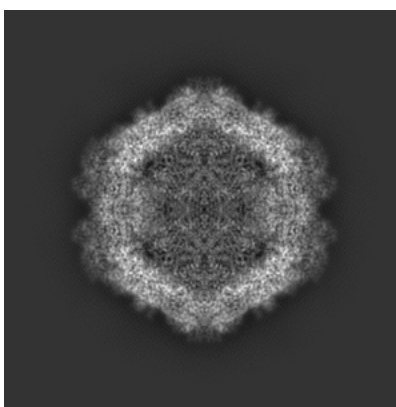


Z

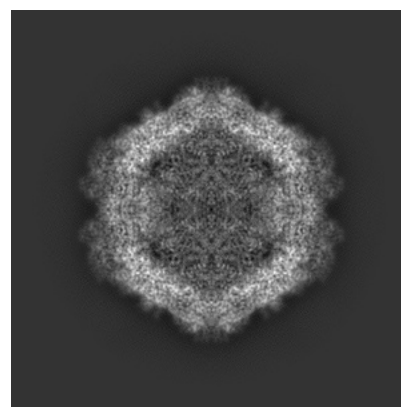
6.1.2 Raw map



X



Y

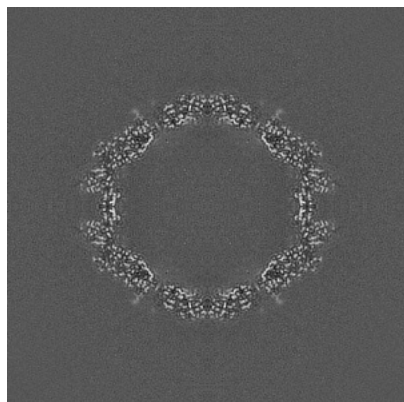


Z

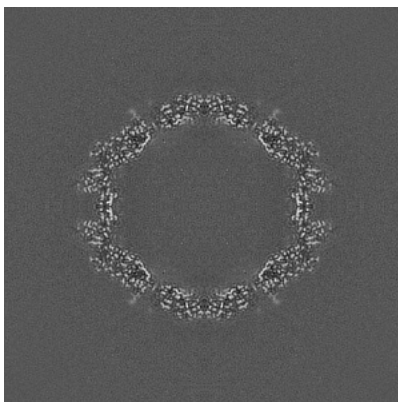
The images above show the map projected in three orthogonal directions.

6.2 Central slices [i](#)

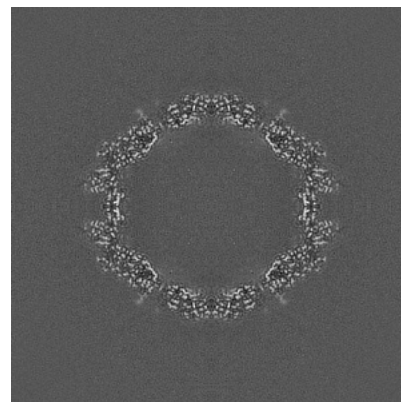
6.2.1 Primary map



X Index: 250

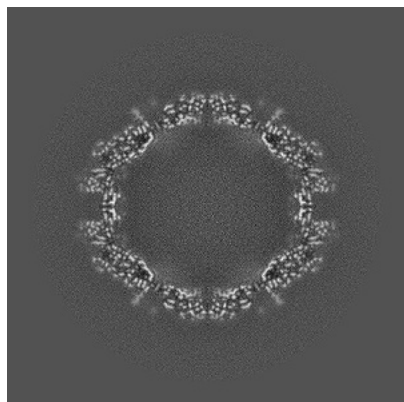


Y Index: 250

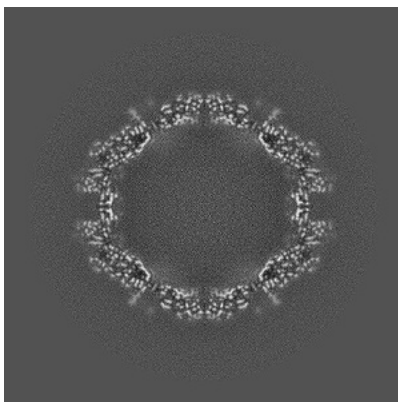


Z Index: 250

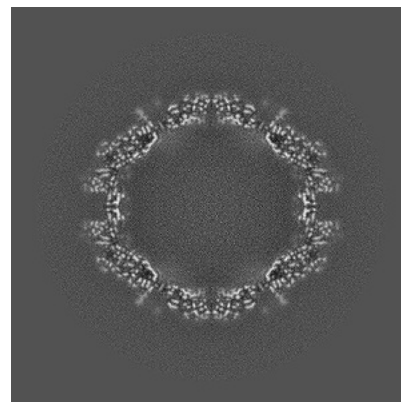
6.2.2 Raw map



X Index: 250



Y Index: 250

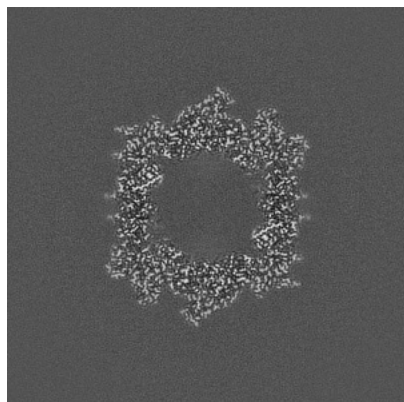


Z Index: 250

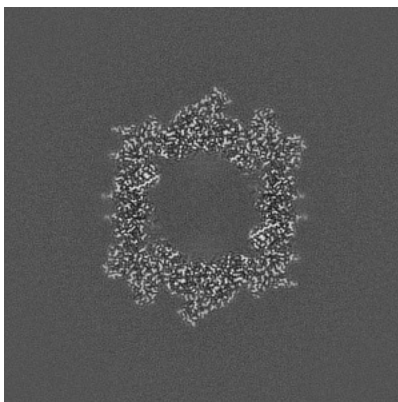
The images above show central slices of the map in three orthogonal directions.

6.3 Largest variance slices [i](#)

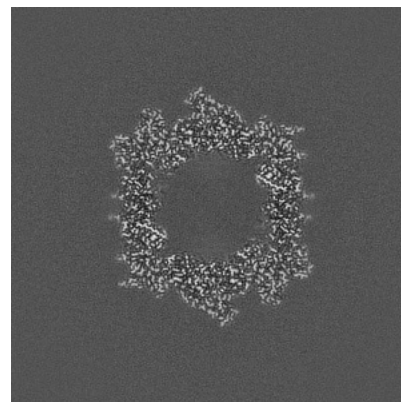
6.3.1 Primary map



X Index: 329

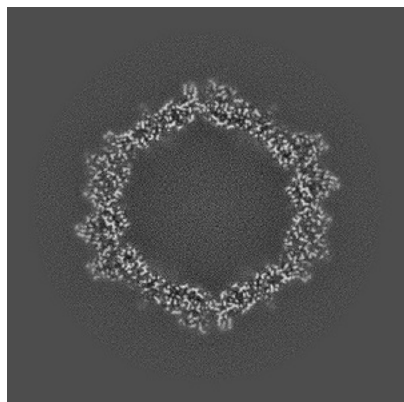


Y Index: 329

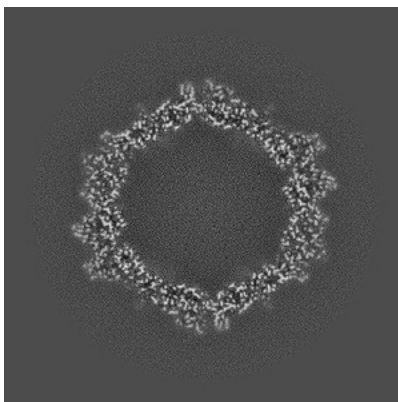


Z Index: 171

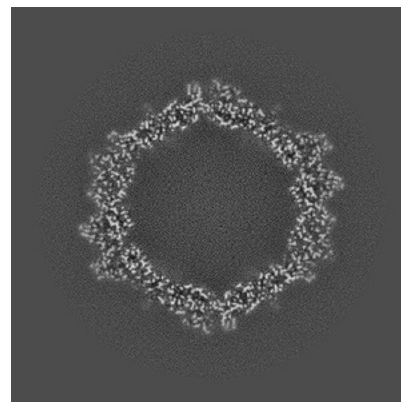
6.3.2 Raw map



X Index: 232



Y Index: 232

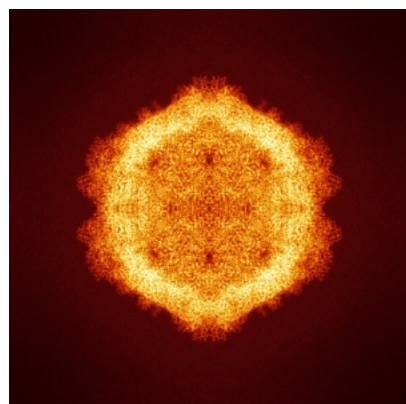


Z Index: 232

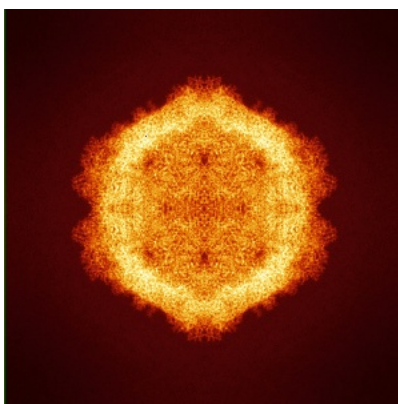
The images above show the largest variance slices of the map in three orthogonal directions.

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

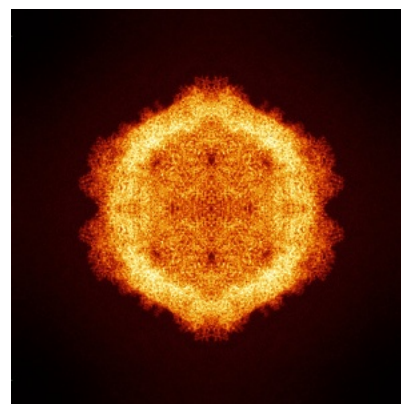
6.4.1 Primary map



X

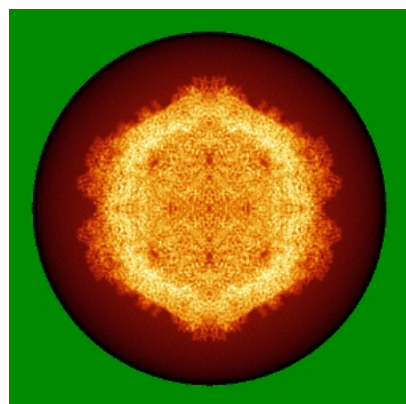


Y

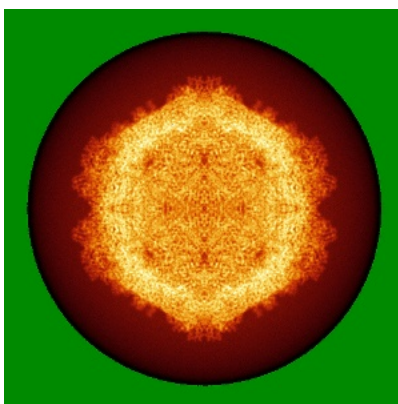


Z

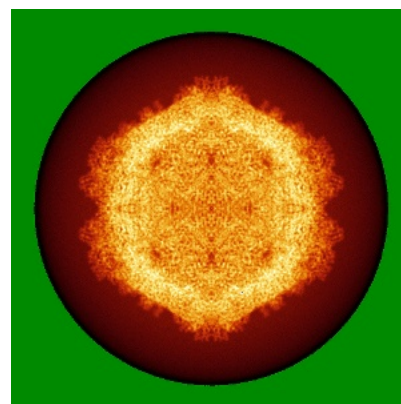
6.4.2 Raw map



X



Y

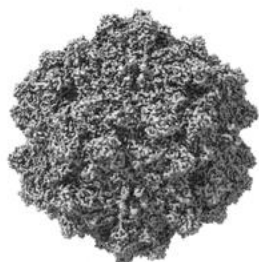


Z

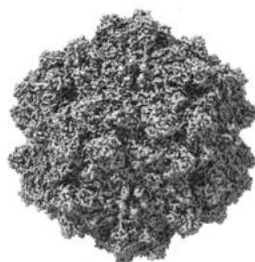
The images above show the map standard deviation projections with false color in three orthogonal directions. Minimum values are shown in green, max in blue, and dark to light orange shades represent small to large values respectively.

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.

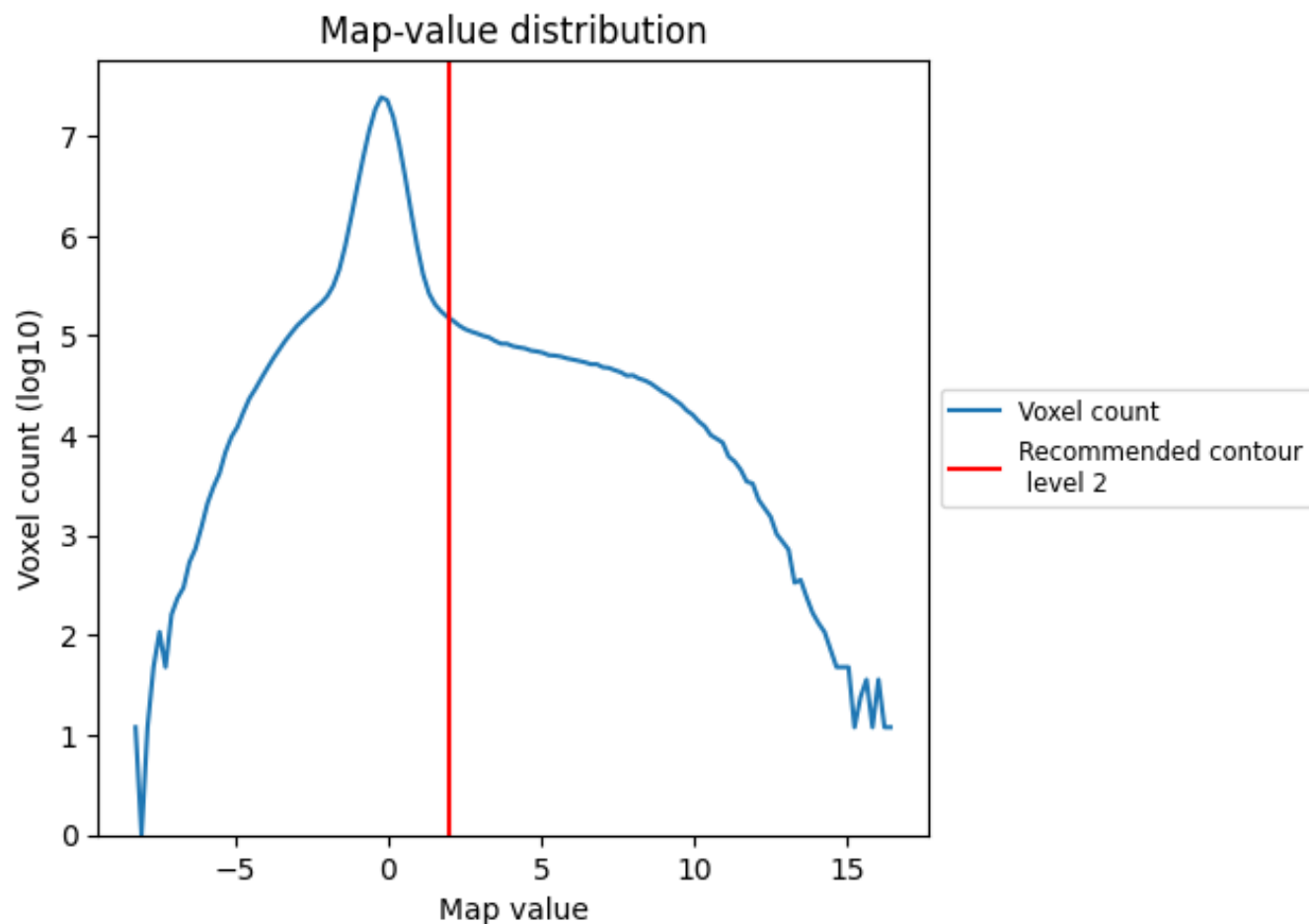
6.6 Mask visualisation [i](#)

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

7 Map analysis [i](#)

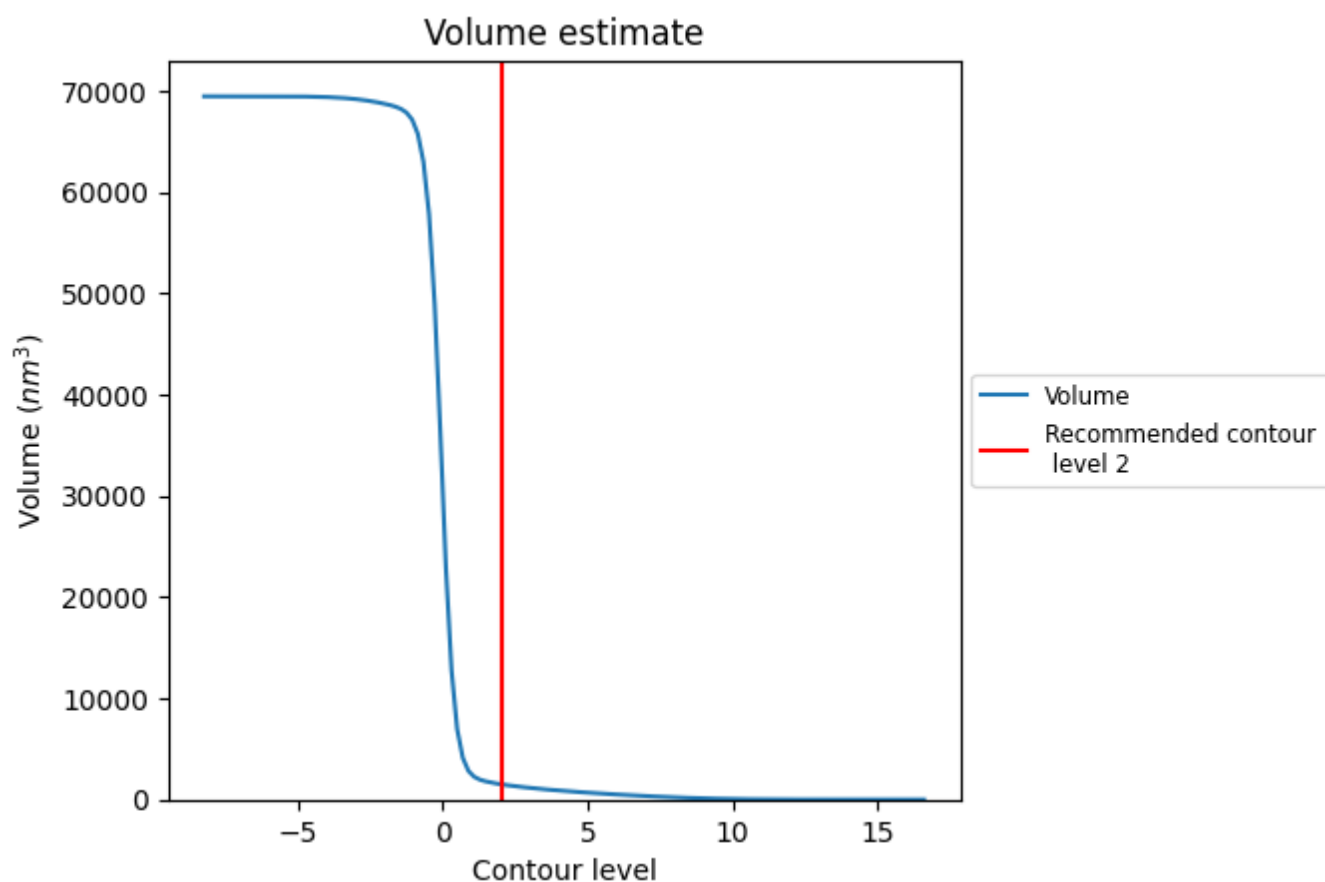
This section contains the results of statistical analysis of the map.

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.

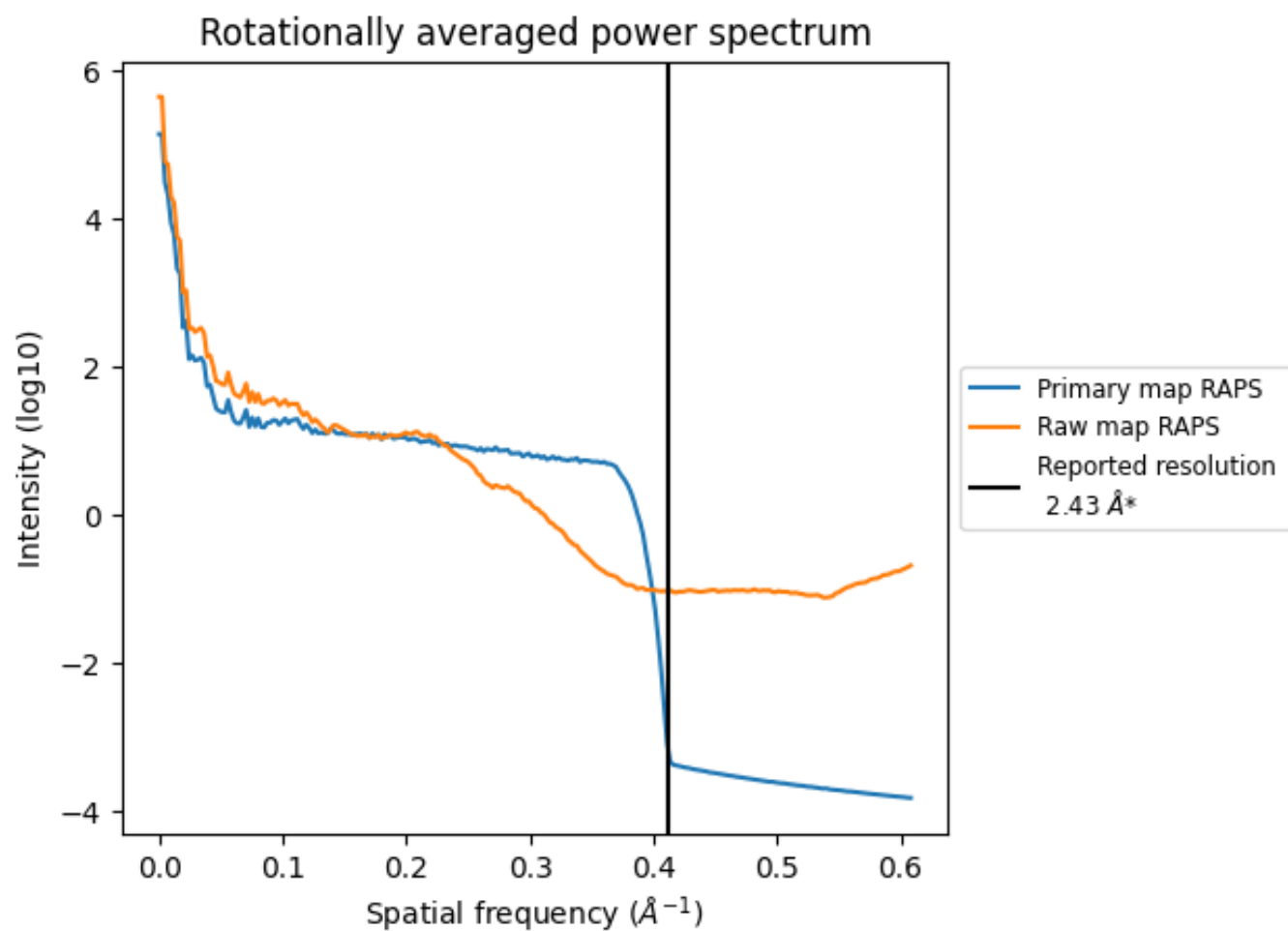
7.2 Volume estimate [i](#)



The volume at the recommended contour level is 1512 nm³; this corresponds to an approximate mass of 1366 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 ⓘ

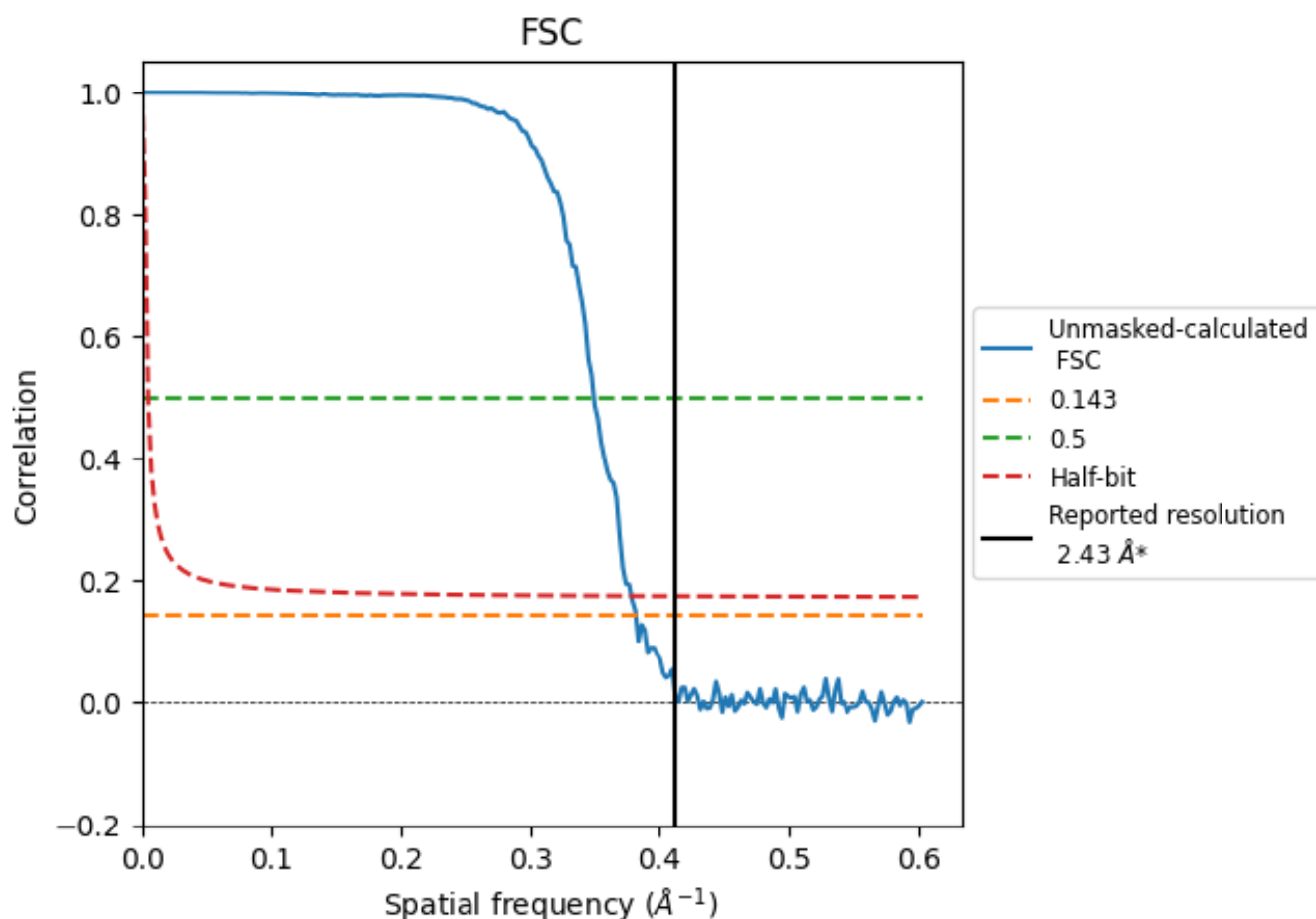


*Reported resolution corresponds to spatial frequency of $0.412 \text{ \AA}^{-1}$

8 Fourier-Shell correlation [i](#)

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

8.1 FSC [i](#)



*Reported resolution corresponds to spatial frequency of $0.412 \text{ \AA}^{-1}$

8.2 Resolution estimates [i](#)

Resolution estimate (Å)	Estimation criterion (FSC cut-off)		
	0.143	0.5	Half-bit
Reported by author	2.43	-	-
Author-provided FSC curve	-	-	-
Unmasked-calculated*	2.62	2.86	2.64

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

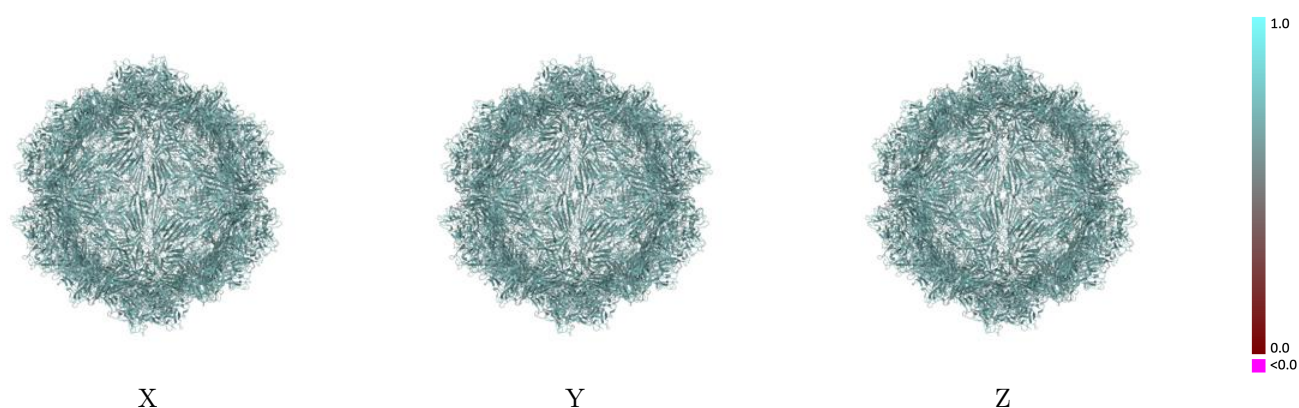
9 Map-model fit [i](#)

This section contains information regarding the fit between EMDB map EMD-48181 and PDB model 9ME0. Per-residue inclusion information can be found in section 3 on page 11.

9.1 Map-model overlay [i](#)

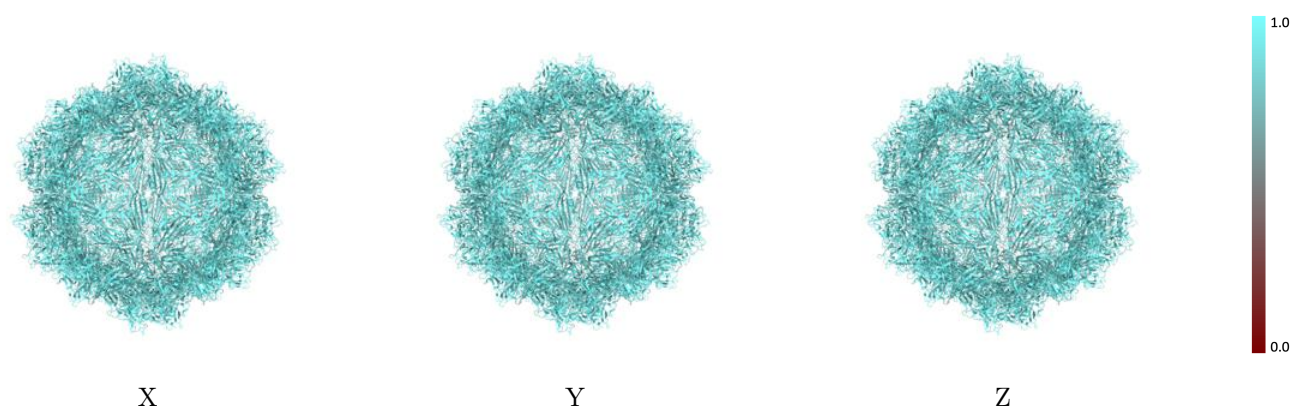
This section was not generated.

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



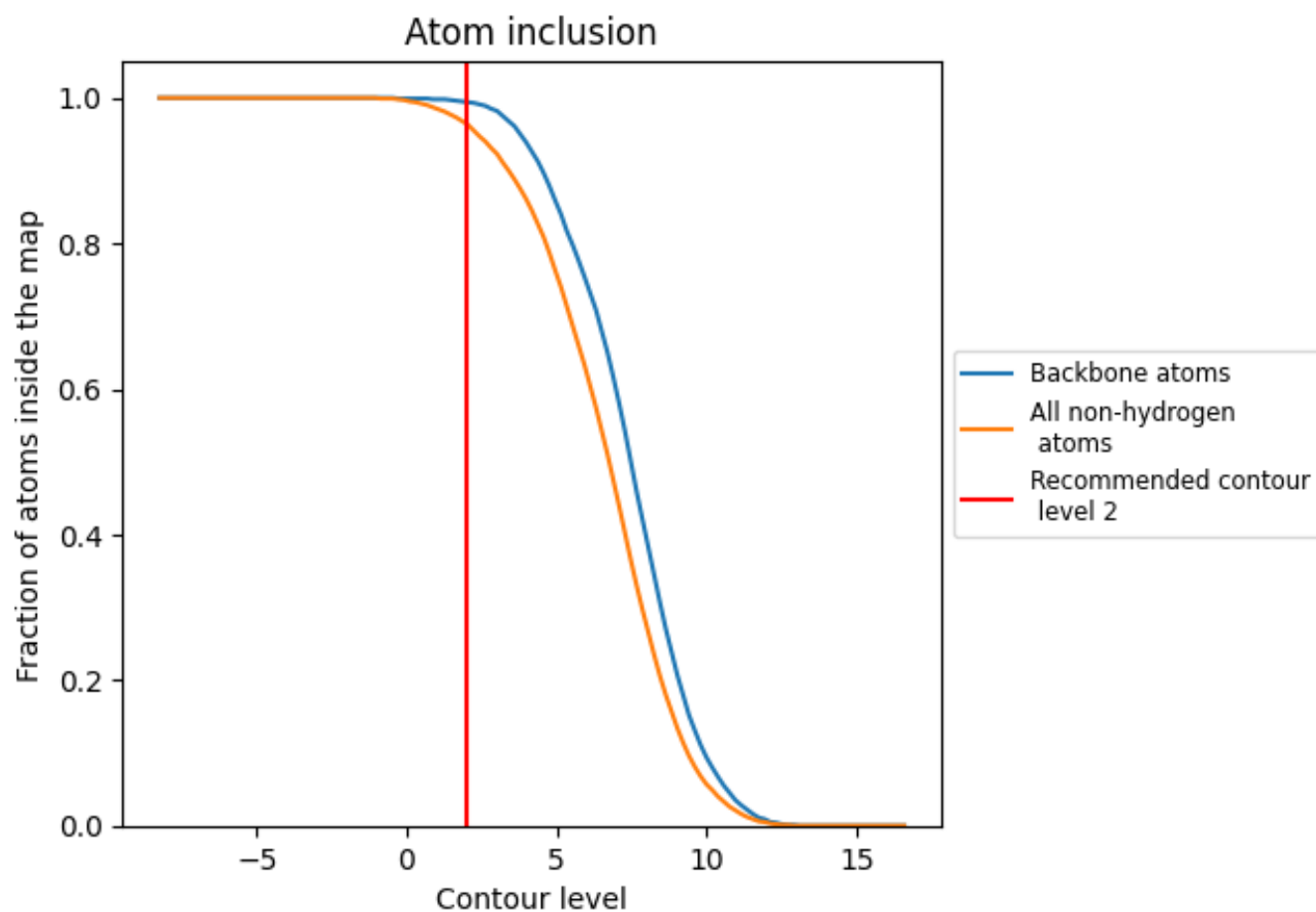
The images above show the model with each residue coloured according its Q-score. This shows their resolvability in the map with higher Q-score values reflecting better resolvability. Please note: Q-score is calculating the resolvability of atoms, and thus high values are only expected at resolutions 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, 99% of all backbone atoms, 96% 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	 0.9640	 0.6730
1	 0.9630	 0.6730
2	 0.9630	 0.6730
3	 0.9640	 0.6730
4	 0.9650	 0.6730
5	 0.9650	 0.6740
6	 0.9650	 0.6740
7	 0.9650	 0.6730
8	 0.9640	 0.6730
A	 0.9640	 0.6740
B	 0.9630	 0.6730
C	 0.9650	 0.6730
D	 0.9650	 0.6730
E	 0.9640	 0.6730
F	 0.9640	 0.6730
G	 0.9640	 0.6730
H	 0.9650	 0.6740
I	 0.9650	 0.6730
J	 0.9630	 0.6730
K	 0.9650	 0.6730
L	 0.9630	 0.6730
M	 0.9640	 0.6730
N	 0.9650	 0.6730
O	 0.9640	 0.6730
P	 0.9650	 0.6730
Q	 0.9650	 0.6730
R	 0.9630	 0.6730
S	 0.9630	 0.6730
T	 0.9650	 0.6730
U	 0.9630	 0.6730
V	 0.9650	 0.6730
W	 0.9650	 0.6740
X	 0.9640	 0.6730
Y	 0.9650	 0.6730
Z	 0.9640	 0.6740



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Chain	Atom inclusion	Q-score
a	 0.9640	 0.6730
b	 0.9640	 0.6740
c	 0.9640	 0.6740
d	 0.9640	 0.6730
e	 0.9640	 0.6730
f	 0.9640	 0.6740
g	 0.9650	 0.6730
h	 0.9640	 0.6730
i	 0.9650	 0.6740
j	 0.9650	 0.6730
k	 0.9650	 0.6730
l	 0.9640	 0.6730
m	 0.9650	 0.6730
n	 0.9640	 0.6740
o	 0.9640	 0.6730
p	 0.9650	 0.6730
q	 0.9630	 0.6730
r	 0.9630	 0.6730
s	 0.9630	 0.6730
t	 0.9640	 0.6730
u	 0.9650	 0.6720
v	 0.9640	 0.6730
w	 0.9640	 0.6730
x	 0.9650	 0.6730
y	 0.9640	 0.6730
z	 0.9630	 0.6720