



Full wwPDB EM Validation Report ⓘ

Mar 20, 2026 – 04:43 PM UTC

PDB ID : 7L6B / pdb_00007l6b
EMDB ID : EMD-23201
Title : The empty AAV12 capsid
Authors : Mietzsch, M.; Agbandje-McKenna, M.
Deposited on : 2020-12-23
Resolution : 2.54 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:

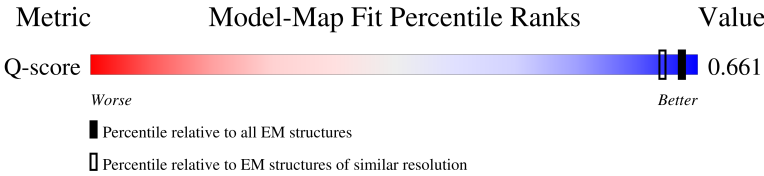
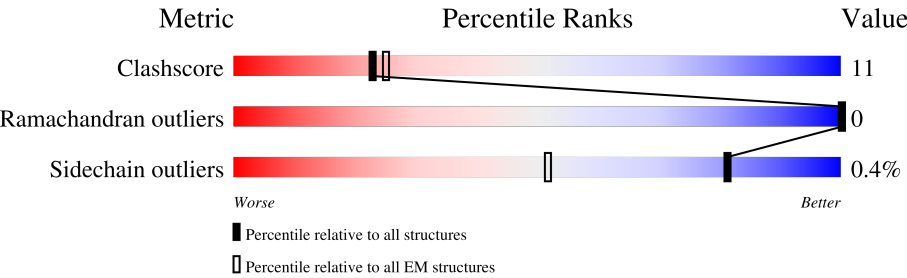
EMDB validation analysis : 0.0.1.dev132
MolProbity : 4-5-2 with Phenix2.0
Percentile statistics : 20250101.v01 (using entries in the PDB archive January 1st 2025)
EM percentile statistics : 202505.v01 (Using data in the EMDB archive up until May 2025)
MapQ : 1.9.13
Ideal geometry (proteins) : Engh & 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 2.54 Å.

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



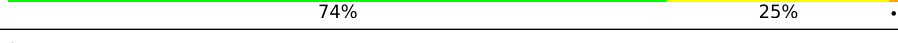
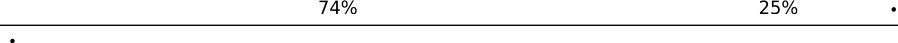
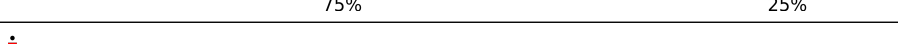
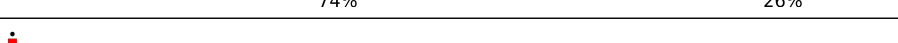
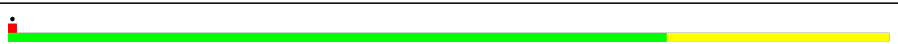
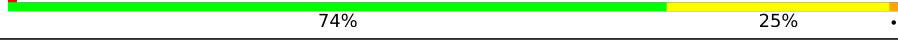
Metric	Whole archive (#Entries)	EM structures (#Entries)	Similar EM resolution (#Entries, resolution range(Å))
Clashscore	229148	23984	-
Ramachandran outliers	224038	23583	-
Sidechain outliers	223484	23102	-
Q-score	-	25397	7403 (2.04 - 3.04)

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	521	
1	2	521	
1	3	521	
1	4	521	

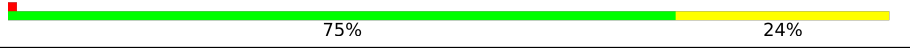
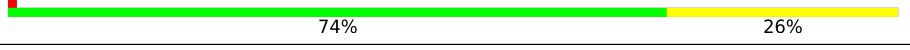
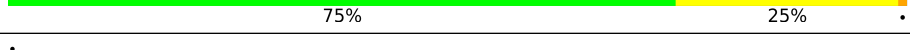
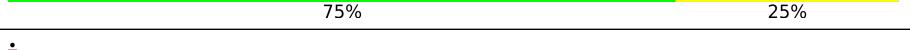
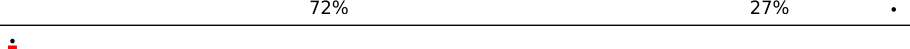
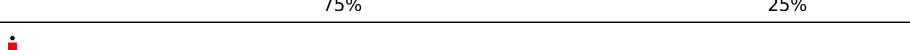
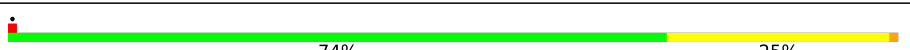
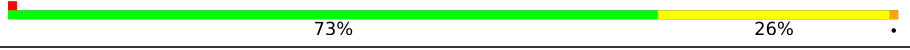
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Mol	Chain	Length	Quality of chain
1	5	521	 74%26%
1	6	521	 75%24%
1	7	521	 74%26%
1	8	521	 76%24%
1	A	521	 74%25%
1	B	521	 74%25%
1	C	521	 74%26%
1	D	521	 74%25%
1	E	521	 74%25%
1	F	521	 75%25%
1	G	521	 74%26%
1	H	521	 74%26%
1	I	521	 74%26%
1	J	521	 74%25%
1	K	521	 74%26%
1	L	521	 74%25%
1	M	521	 74%26%
1	N	521	 75%25%
1	O	521	 73%26%
1	P	521	 74%26%
1	Q	521	 74%25%
1	R	521	 73%26%
1	S	521	 74%26%
1	T	521	 74%25%
1	U	521	 74%26%

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Mol	Chain	Length	Quality of chain
1	V	521	 74%26%
1	W	521	 75%24%
1	X	521	 75%24%
1	Y	521	 74%26%
1	Z	521	 76%24%
1	a	521	 75%25%
1	b	521	 75%25%
1	c	521	 75%25%
1	d	521	 72%27%
1	e	521	 75%25%
1	f	521	 75%25%
1	g	521	 73%26%
1	h	521	 74%26%
1	i	521	 73%26%
1	j	521	 74%25%
1	k	521	 74%25%
1	l	521	 74%25%
1	m	521	 74%25%
1	n	521	 73%26%
1	o	521	 75%24%
1	p	521	 74%26%
1	q	521	 73%26%
1	r	521	 74%25%
1	s	521	 74%26%
1	t	521	 74%26%

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Mol	Chain	Length	Quality of chain
1	u	521	74% 25%
1	v	521	74% 25%
1	w	521	74% 25%
1	x	521	74% 25%
1	y	521	75% 25%
1	z	521	74% 25%

2 Entry composition

There is only 1 type of molecule in this entry. The entry contains 248520 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	521	Total	C	N	O	S	1	0
			4142	2610	723	790	19		
1	B	521	Total	C	N	O	S	1	0
			4142	2610	723	790	19		
1	C	521	Total	C	N	O	S	1	0
			4142	2610	723	790	19		
1	D	521	Total	C	N	O	S	1	0
			4142	2610	723	790	19		
1	E	521	Total	C	N	O	S	1	0
			4142	2610	723	790	19		
1	F	521	Total	C	N	O	S	1	0
			4142	2610	723	790	19		
1	G	521	Total	C	N	O	S	1	0
			4142	2610	723	790	19		
1	H	521	Total	C	N	O	S	1	0
			4142	2610	723	790	19		
1	I	521	Total	C	N	O	S	1	0
			4142	2610	723	790	19		
1	J	521	Total	C	N	O	S	1	0
			4142	2610	723	790	19		
1	K	521	Total	C	N	O	S	1	0
			4142	2610	723	790	19		
1	L	521	Total	C	N	O	S	1	0
			4142	2610	723	790	19		
1	M	521	Total	C	N	O	S	1	0
			4142	2610	723	790	19		
1	N	521	Total	C	N	O	S	1	0
			4142	2610	723	790	19		
1	O	521	Total	C	N	O	S	1	0
			4142	2610	723	790	19		
1	P	521	Total	C	N	O	S	1	0
			4142	2610	723	790	19		
1	Q	521	Total	C	N	O	S	1	0
			4142	2610	723	790	19		

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Mol	Chain	Residues	Atoms					AltConf	Trace
1	R	521	Total 4142	C 2610	N 723	O 790	S 19	1	0
1	S	521	Total 4142	C 2610	N 723	O 790	S 19	1	0
1	T	521	Total 4142	C 2610	N 723	O 790	S 19	1	0
1	U	521	Total 4142	C 2610	N 723	O 790	S 19	1	0
1	V	521	Total 4142	C 2610	N 723	O 790	S 19	1	0
1	W	521	Total 4142	C 2610	N 723	O 790	S 19	1	0
1	X	521	Total 4142	C 2610	N 723	O 790	S 19	1	0
1	Y	521	Total 4142	C 2610	N 723	O 790	S 19	1	0
1	Z	521	Total 4142	C 2610	N 723	O 790	S 19	1	0
1	a	521	Total 4142	C 2610	N 723	O 790	S 19	1	0
1	b	521	Total 4142	C 2610	N 723	O 790	S 19	1	0
1	c	521	Total 4142	C 2610	N 723	O 790	S 19	1	0
1	d	521	Total 4142	C 2610	N 723	O 790	S 19	1	0
1	e	521	Total 4142	C 2610	N 723	O 790	S 19	1	0
1	f	521	Total 4142	C 2610	N 723	O 790	S 19	1	0
1	g	521	Total 4142	C 2610	N 723	O 790	S 19	1	0
1	h	521	Total 4142	C 2610	N 723	O 790	S 19	1	0
1	i	521	Total 4142	C 2610	N 723	O 790	S 19	1	0
1	j	521	Total 4142	C 2610	N 723	O 790	S 19	1	0
1	k	521	Total 4142	C 2610	N 723	O 790	S 19	1	0
1	l	521	Total 4142	C 2610	N 723	O 790	S 19	1	0

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Mol	Chain	Residues	Atoms					AltConf	Trace
1	m	521	Total	C	N	O	S	1	0
			4142	2610	723	790	19		
1	n	521	Total	C	N	O	S	1	0
			4142	2610	723	790	19		
1	o	521	Total	C	N	O	S	1	0
			4142	2610	723	790	19		
1	p	521	Total	C	N	O	S	1	0
			4142	2610	723	790	19		
1	q	521	Total	C	N	O	S	1	0
			4142	2610	723	790	19		
1	r	521	Total	C	N	O	S	1	0
			4142	2610	723	790	19		
1	s	521	Total	C	N	O	S	1	0
			4142	2610	723	790	19		
1	t	521	Total	C	N	O	S	1	0
			4142	2610	723	790	19		
1	u	521	Total	C	N	O	S	1	0
			4142	2610	723	790	19		
1	v	521	Total	C	N	O	S	1	0
			4142	2610	723	790	19		
1	w	521	Total	C	N	O	S	1	0
			4142	2610	723	790	19		
1	x	521	Total	C	N	O	S	1	0
			4142	2610	723	790	19		
1	y	521	Total	C	N	O	S	1	0
			4142	2610	723	790	19		
1	z	521	Total	C	N	O	S	1	0
			4142	2610	723	790	19		
1	1	521	Total	C	N	O	S	1	0
			4142	2610	723	790	19		
1	2	521	Total	C	N	O	S	1	0
			4142	2610	723	790	19		
1	3	521	Total	C	N	O	S	1	0
			4142	2610	723	790	19		
1	4	521	Total	C	N	O	S	1	0
			4142	2610	723	790	19		
1	5	521	Total	C	N	O	S	1	0
			4142	2610	723	790	19		
1	6	521	Total	C	N	O	S	1	0
			4142	2610	723	790	19		
1	7	521	Total	C	N	O	S	1	0
			4142	2610	723	790	19		

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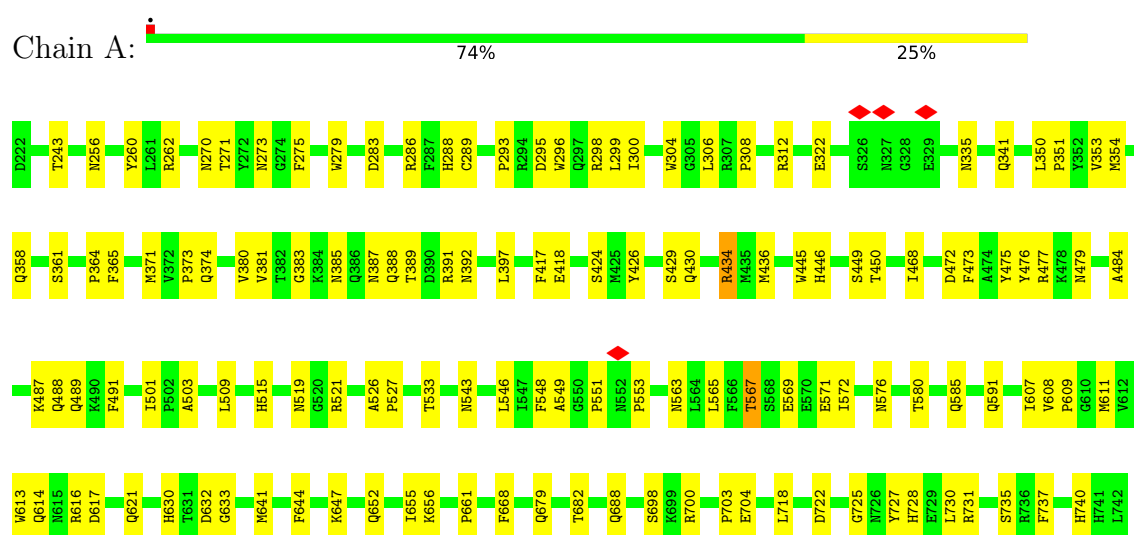
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Mol	Chain	Residues	Atoms					AltConf	Trace
1	8	521	Total	C	N	O	S	1	0
			4142	2610	723	790	19		

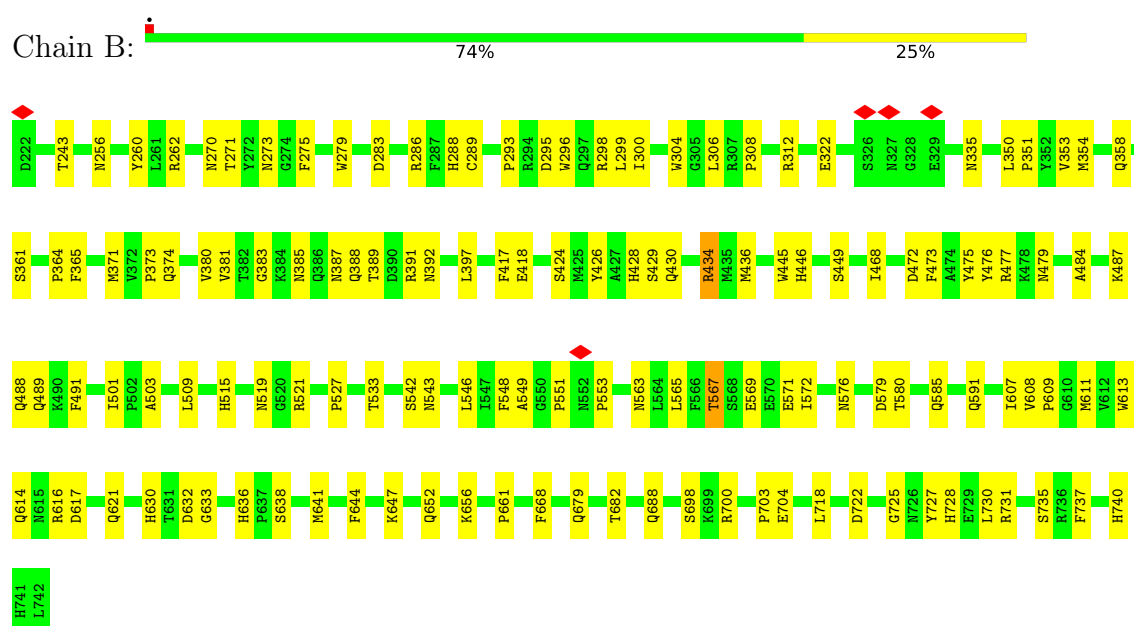
3 Residue-property plots

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

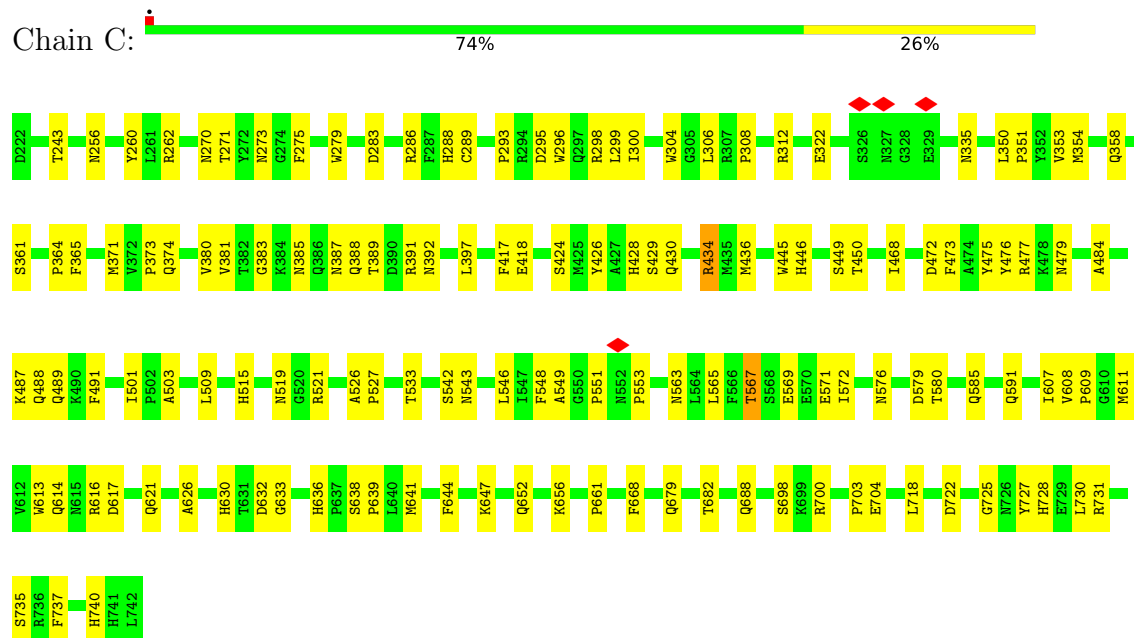
• Molecule 1: VP1



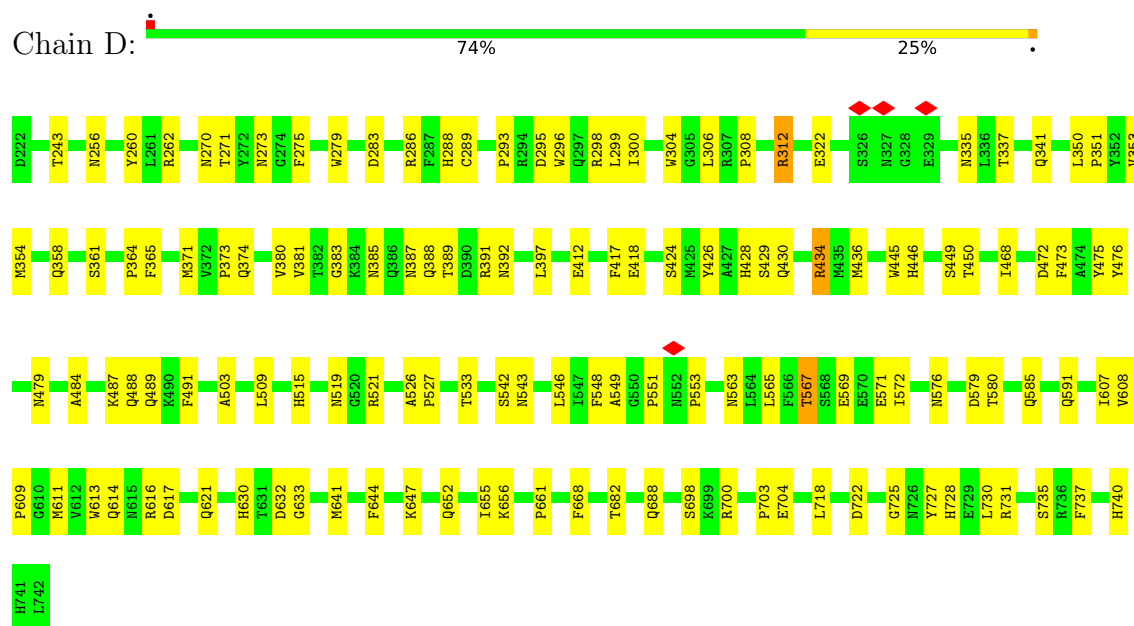
• Molecule 1: VP1



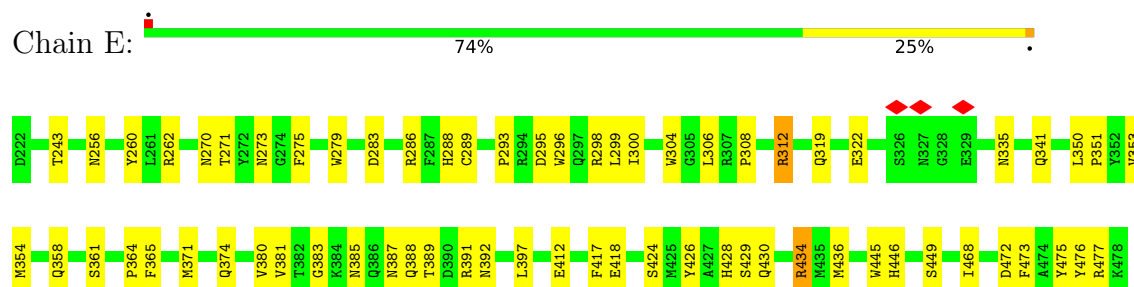
- Molecule 1: VP1

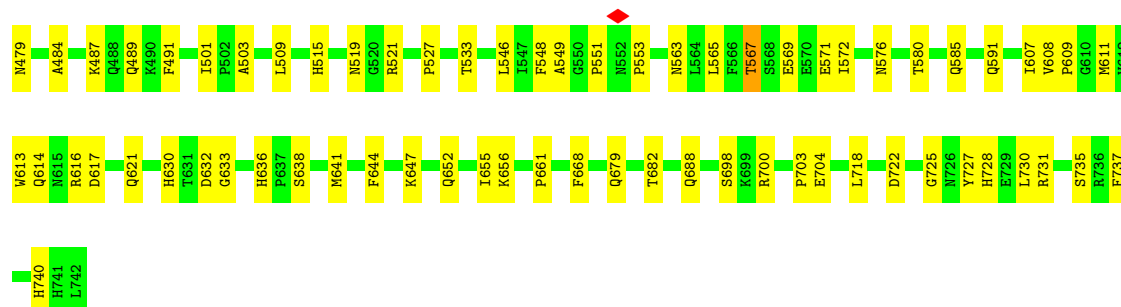


- Molecule 1: VP1

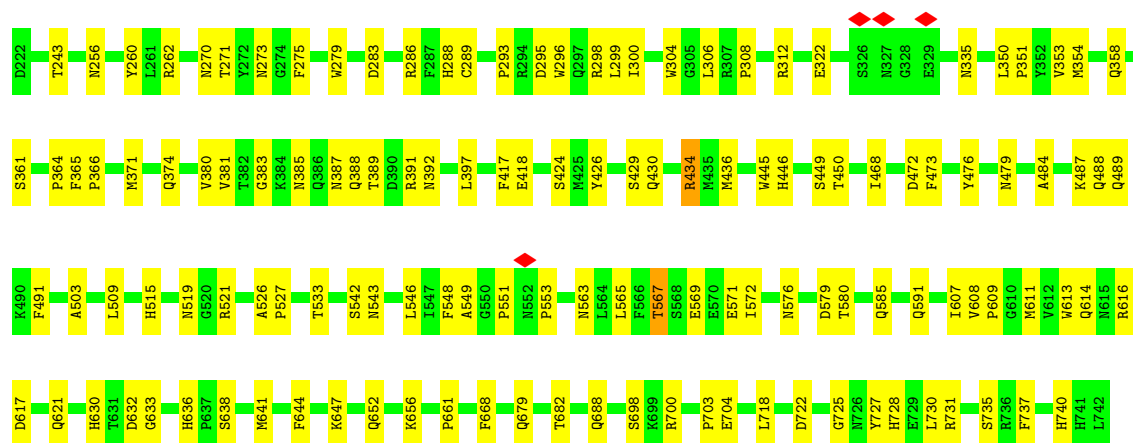
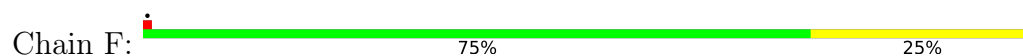


- Molecule 1: VP1

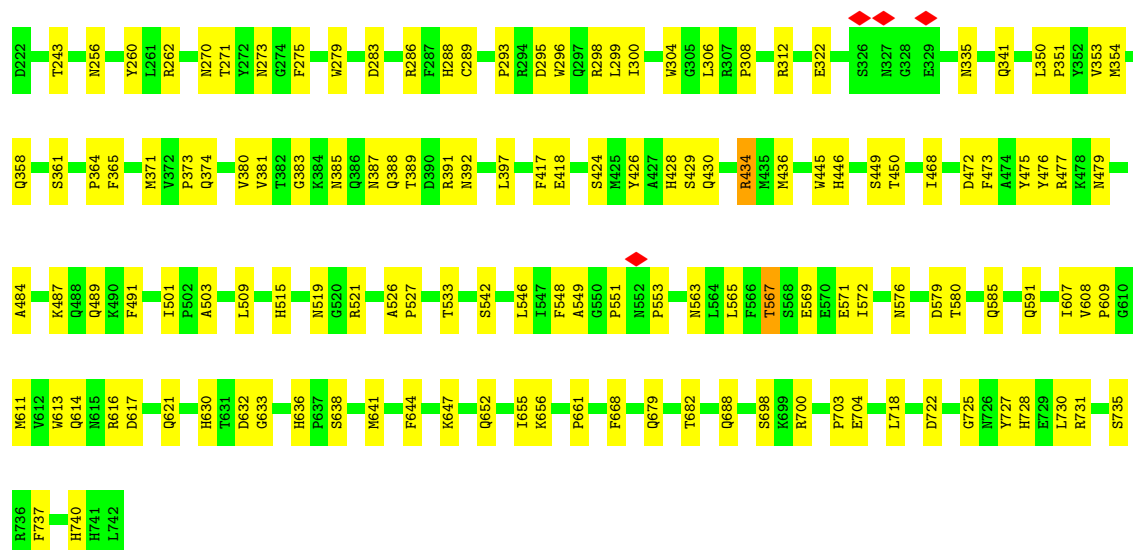
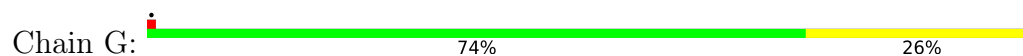




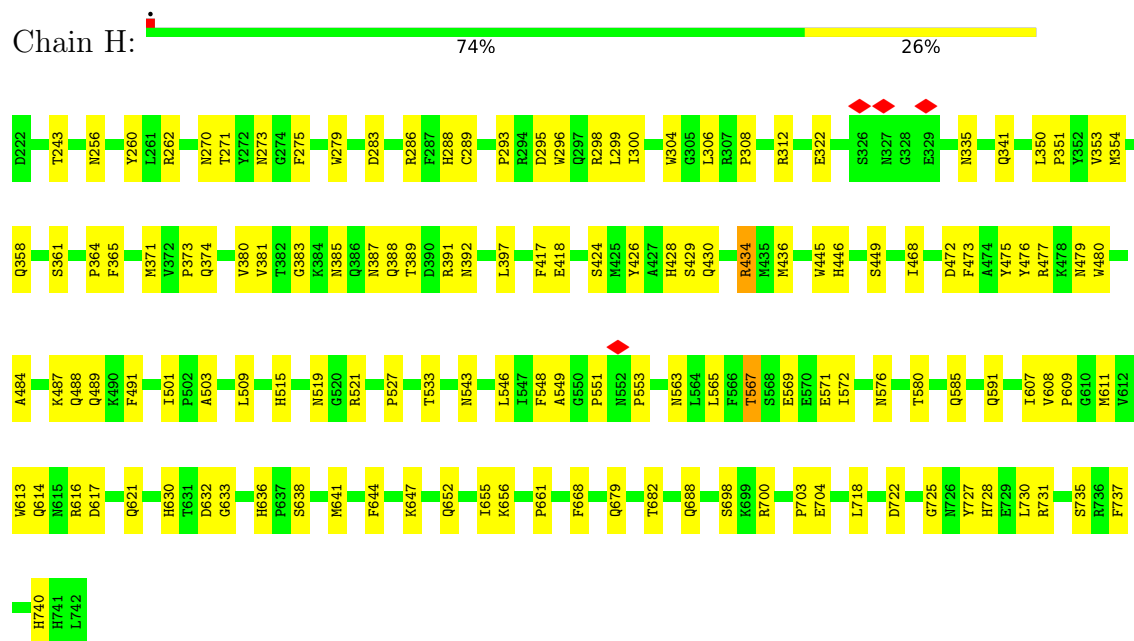
- Molecule 1: VP1



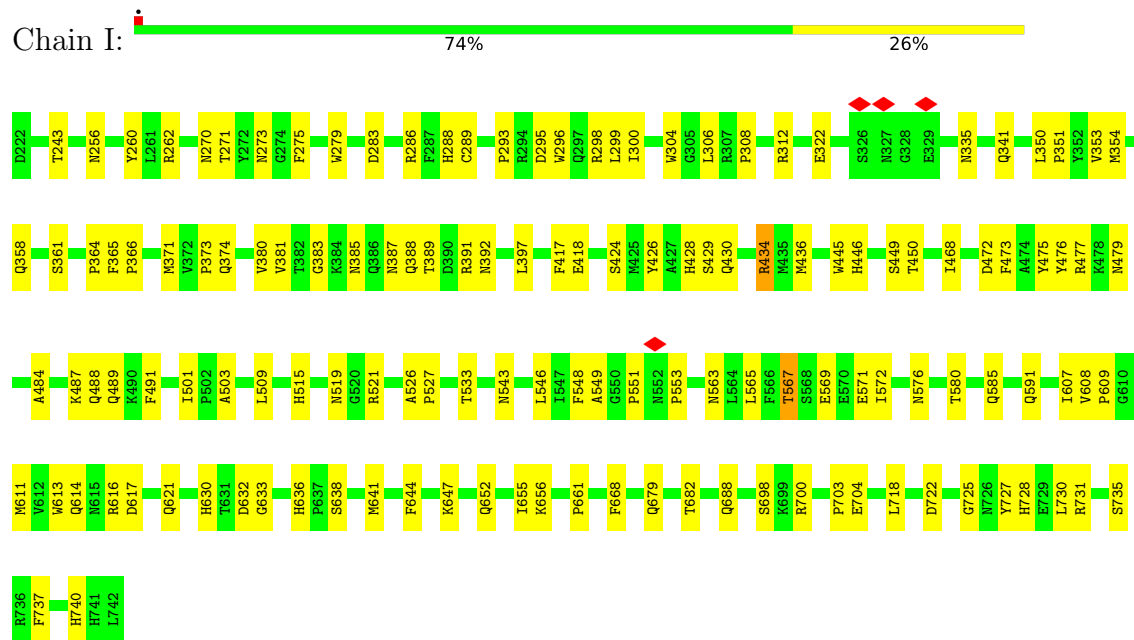
- Molecule 1: VP1



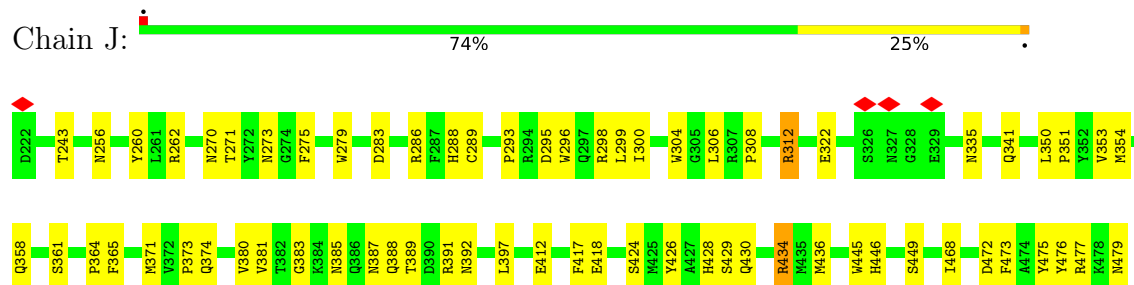
- Molecule 1: VP1

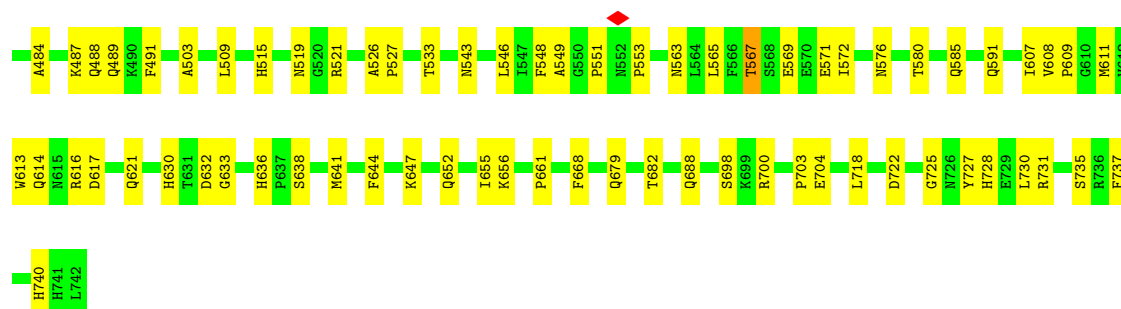


- Molecule 1: VP1

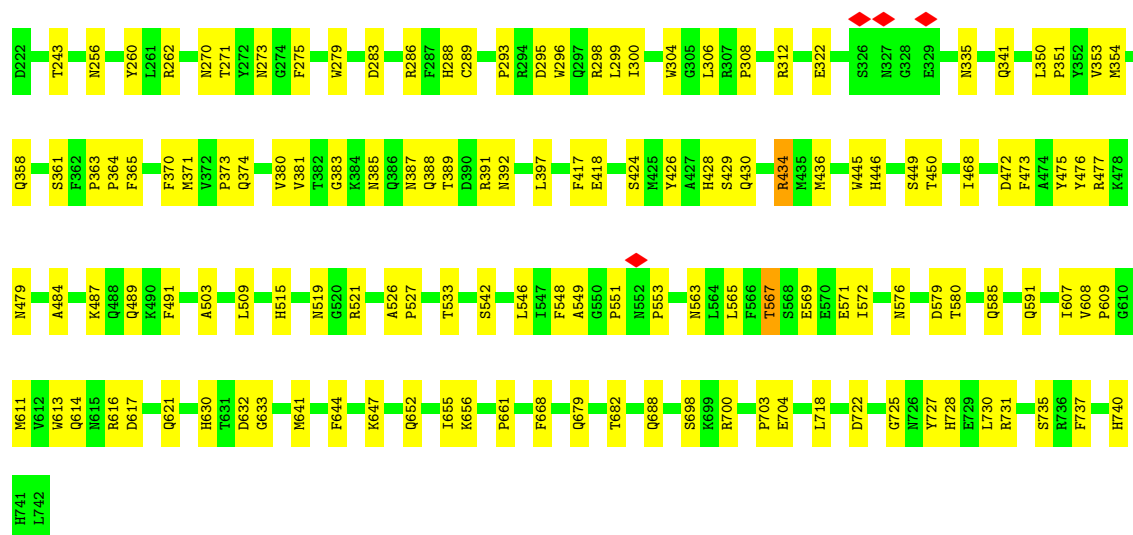


- Molecule 1: VP1

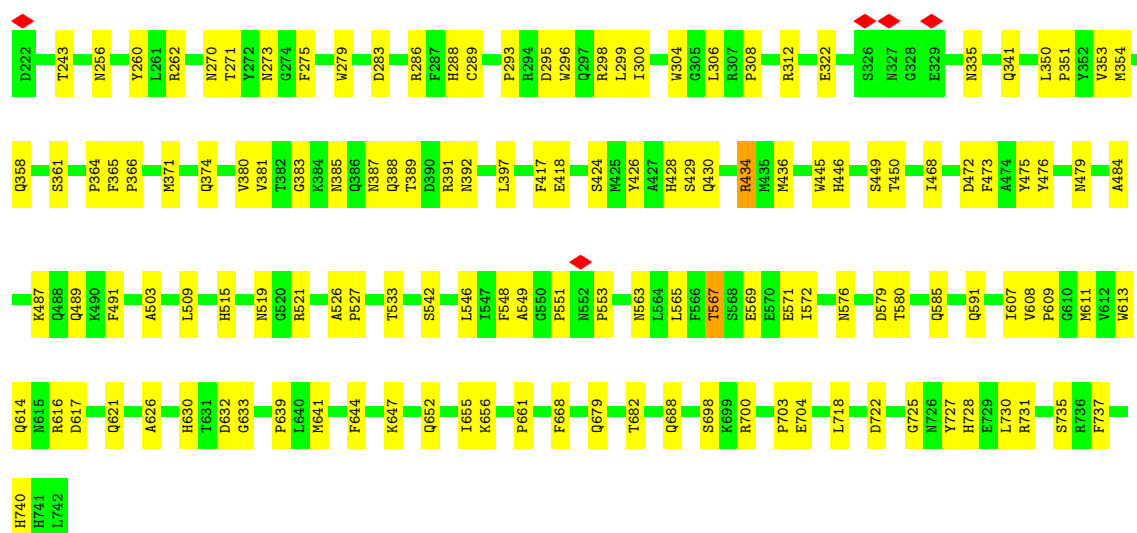
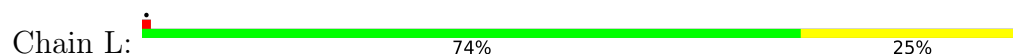




• Molecule 1: VP1



• Molecule 1: VP1



Chain M: 74% 26%

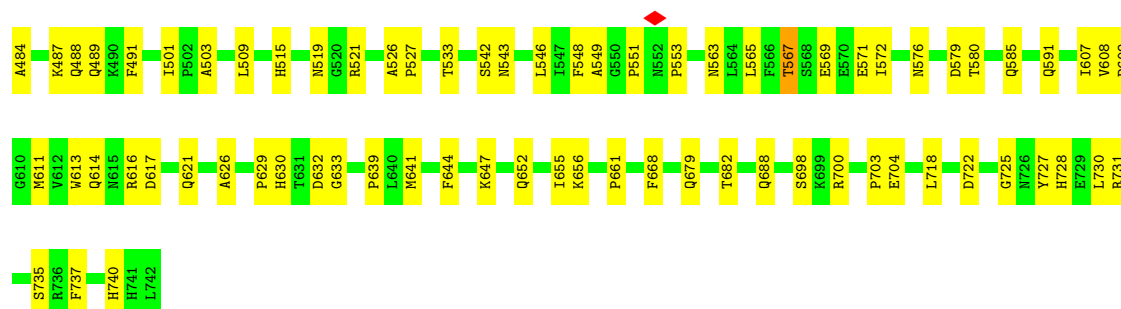
Item ID	Chain M (%)
Q358	0
A484	0
Q614	0
F737	0
Q361	0
K487	0
H740	0
Q374	0
P373	0
Q489	0
H741	0
L742	0
Q385	0
F491	0
A503	0
H630	0
T631	0
D632	0
G633	0
H636	0
P637	0
S638	0
P639	0
L640	0
M641	0
F644	0
K647	0
Q652	0
T656	0
K656	0
P661	0
F668	0
Q679	0
T682	0
Q688	0
S698	0
K699	0
R700	0
P703	0
E704	0
L718	0
D722	0
G725	0
H726	0
Y727	0
L730	0
R731	0
S735	0
R736	0
Q386	0
M371	0
V372	0
P374	0
V380	0
V381	0
T382	0
G383	0
K384	0
N385	0
Q386	0
N387	0
Q388	0
T389	0
D390	0
R391	0
N392	0
L397	0
F417	0
E418	0
S424	0
Y425	0
Y426	0
A427	0
L428	0
S429	0
Q430	0
R434	0
H435	0
M436	0
W445	0
H446	0
D472	0
F473	0
A474	0
V475	0
Y476	0
P609	0
R477	0
K478	0
M479	0
S326	0
N327	0
G328	0
E329	0
N335	0
Q341	0
L350	0
P351	0
V352	0
V353	0
M354	0
D222	0
T243	0
N256	0
Y260	0
L261	0
R262	0
N270	0
T271	0
Y272	0
N273	0
G274	0
F275	0
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R294	0
D295	0
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L306	0
R307	0
P308	0
R312	0
E322	0
S326	0
N327	0
G328	0
E329	0
N335	0
Q341	0
L350	0
P351	0
V352	0
V353	0
M354	0

Chain N:

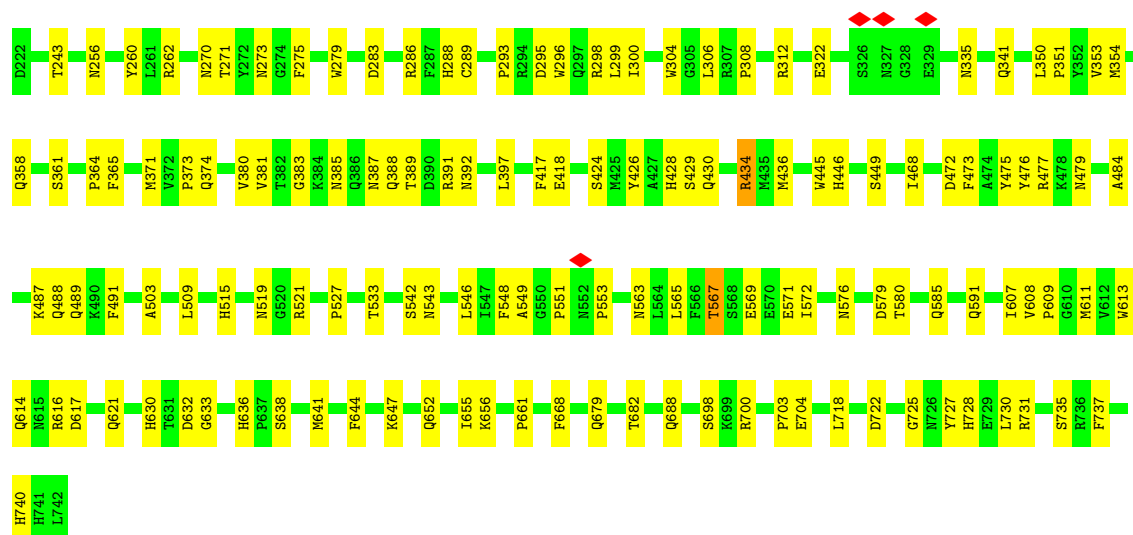
Row	Col 1	Col 2	Col 3	Col 4	Col 5	Col 6	Col 7	Col 8	Col 9	Col 10	Col 11	Col 12
1	Q558	D222	Q358	Q558	Q358	Q558	Q358	Q558	Q358	Q558	Q358	Q558
2	Q558	D222	Q358	Q558	Q358	Q558	Q358	Q558	Q358	Q558	Q358	Q558
3	Q558	D222	Q358	Q558	Q358	Q558	Q358	Q558	Q358	Q558	Q358	Q558
4	Q558	D222	Q358	Q558	Q358	Q558	Q358	Q558	Q358	Q558	Q358	Q558

Chain O: 73% 26%

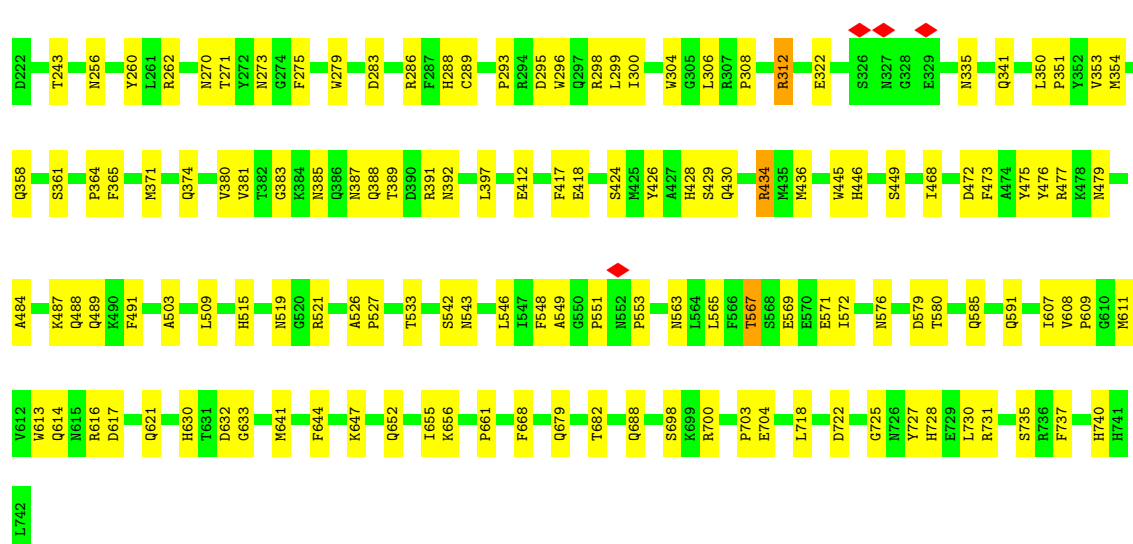
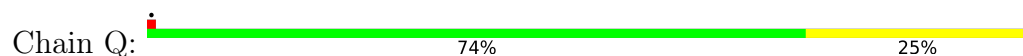
Block ID	Color
D222	Green
T243	Green
N256	Green
Y260	Green
L261	Green
R262	Green
N270	Green
T271	Green
Y272	Green
N273	Green
G274	Green
F275	Green
W279	Green
D283	Green
R286	Green
F287	Green
G288	Green
C289	Green
P293	Green
R294	Green
D295	Green
W296	Green
Q297	Green
R298	Green
L299	Green
I300	Green
W304	Green
G305	Green
L306	Green
R307	Green
P308	Green
R312	Green
K321	Green
E322	Green
S326	Green
N327	Green
G328	Green
E329	Green
N334	Green
N335	Green
Q341	Green
L350	Green
P351	Green
Y352	Green
V353	Green
M354	Yellow
Q358	Yellow
S361	Yellow
P364	Yellow
F365	Yellow
M371	Yellow
V372	Yellow
P373	Yellow
Q374	Yellow
V380	Yellow
V381	Yellow
T382	Yellow
G383	Yellow
F384	Yellow
N385	Yellow
Q386	Yellow
N387	Yellow
Q388	Yellow
T389	Yellow
S390	Yellow
R391	Yellow
N392	Yellow
L397	Yellow
F417	Yellow
E418	Yellow
S424	Yellow
M425	Yellow
Y426	Yellow
A427	Yellow
H428	Yellow
S429	Yellow
Q430	Yellow
R434	Yellow
M435	Yellow
M436	Yellow
W445	Yellow
H446	Yellow
S449	Yellow
I468	Yellow
D472	Yellow
F473	Yellow
A474	Yellow
Y475	Yellow
Y476	Yellow
M479	Yellow



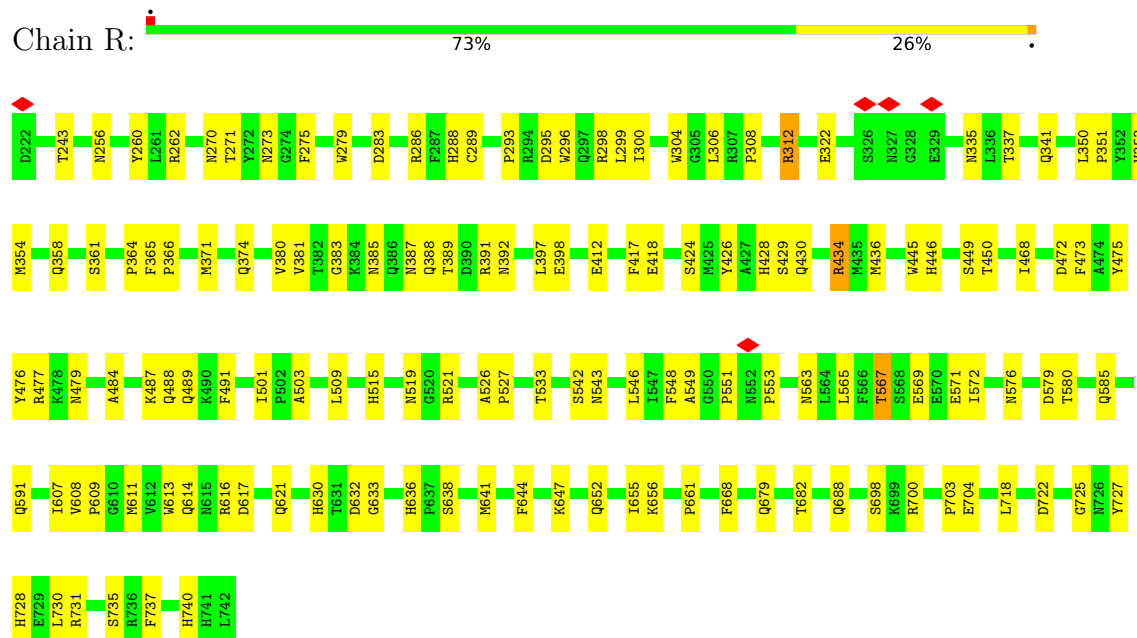
• Molecule 1: VP1



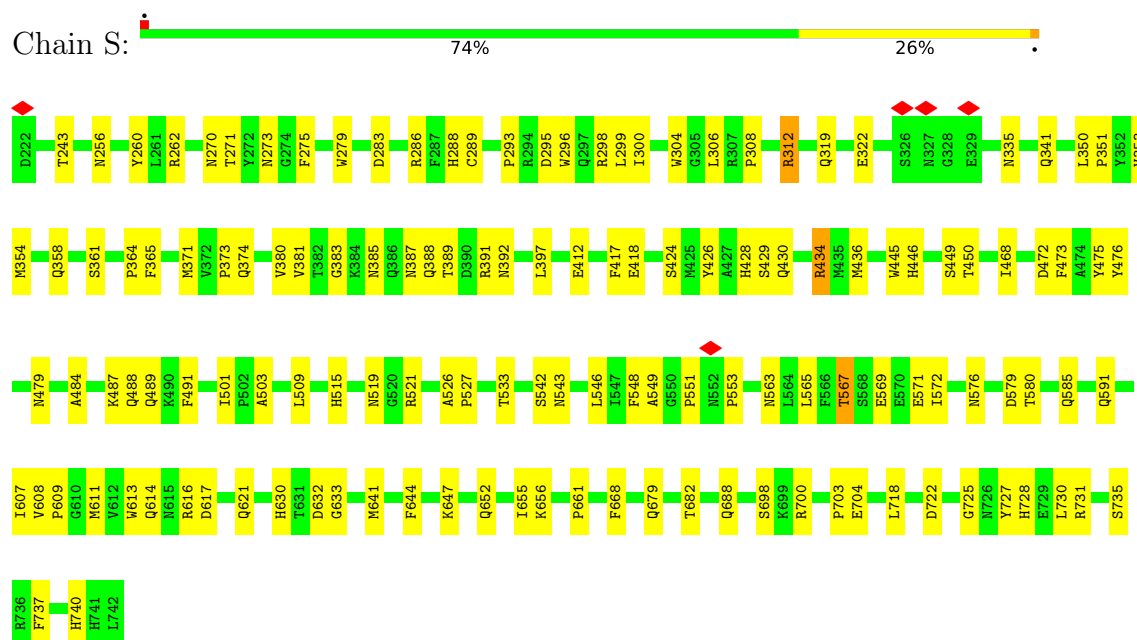
• Molecule 1: VP1



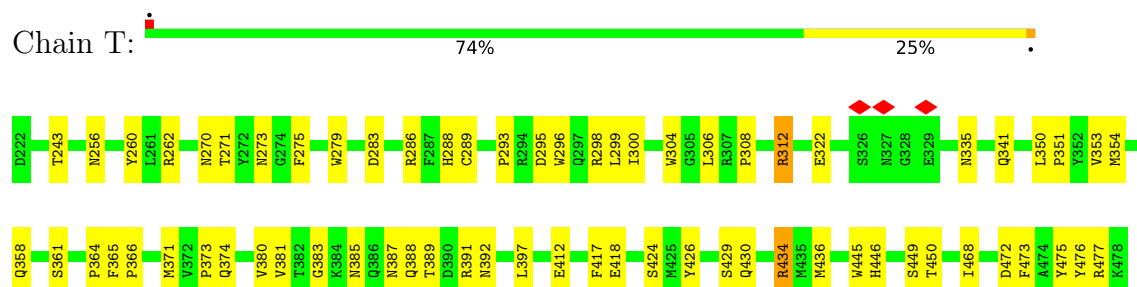
- Molecule 1: VP1

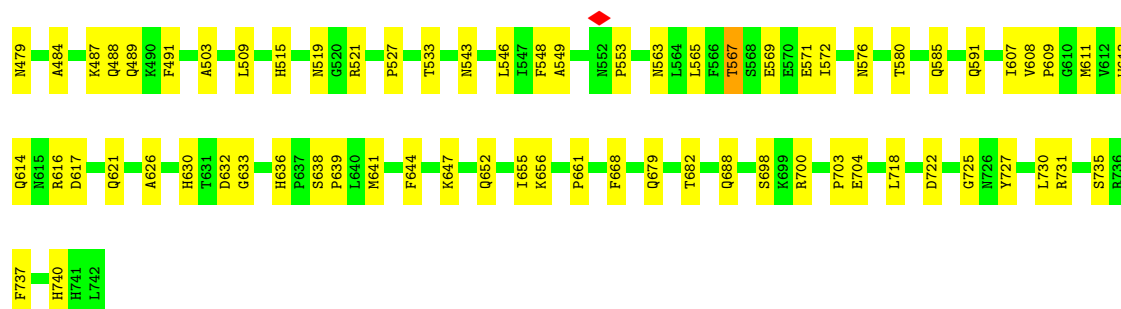


- Molecule 1: VP1

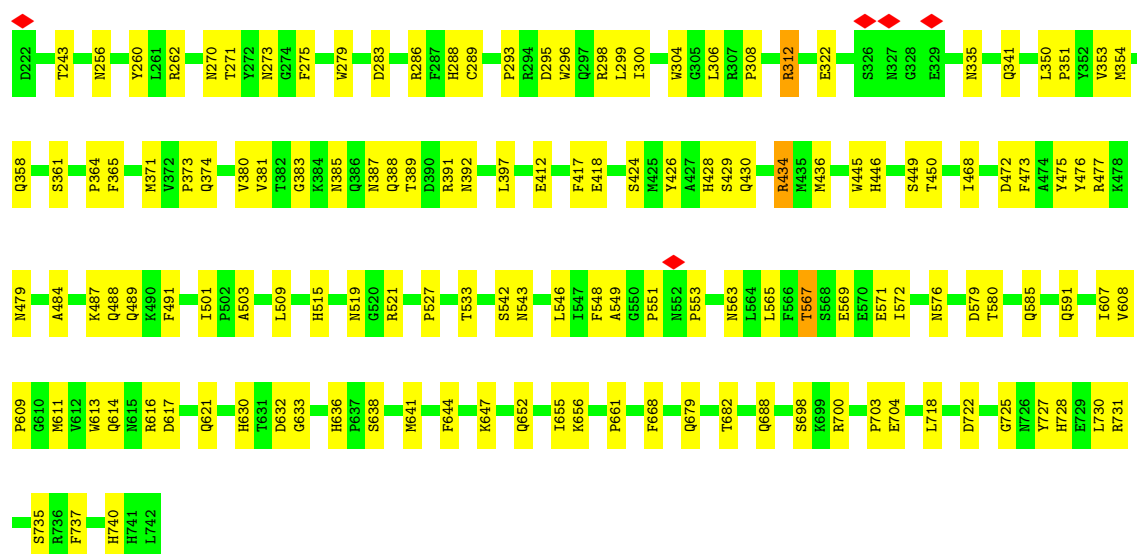


- Molecule 1: VP1

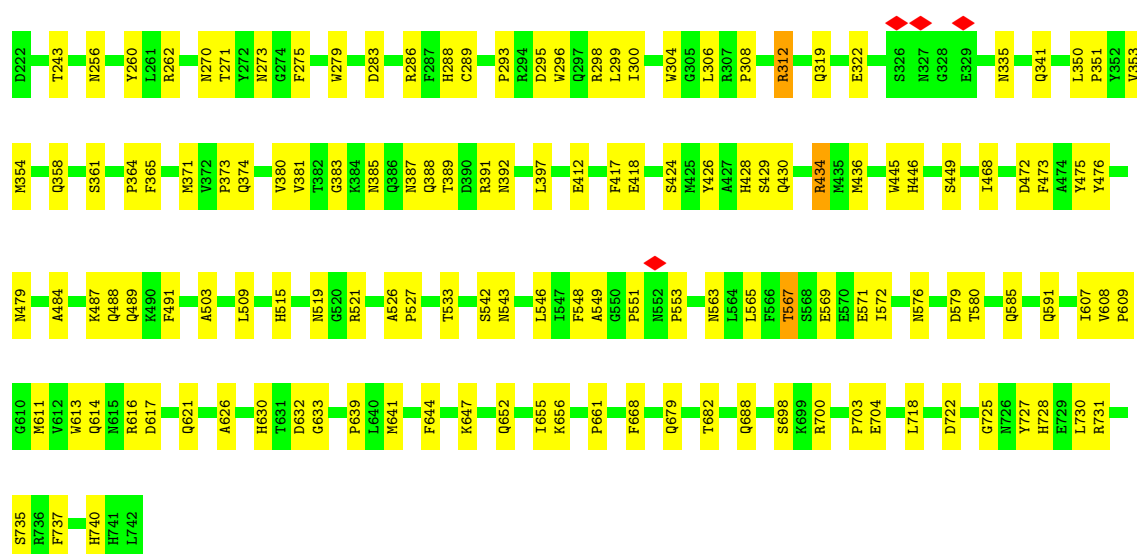




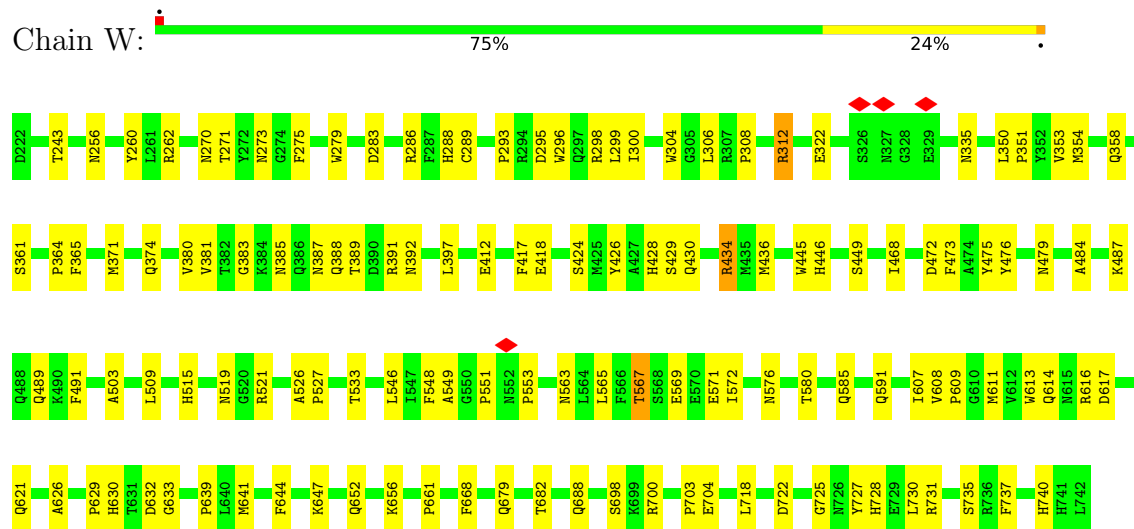
• Molecule 1: VP1



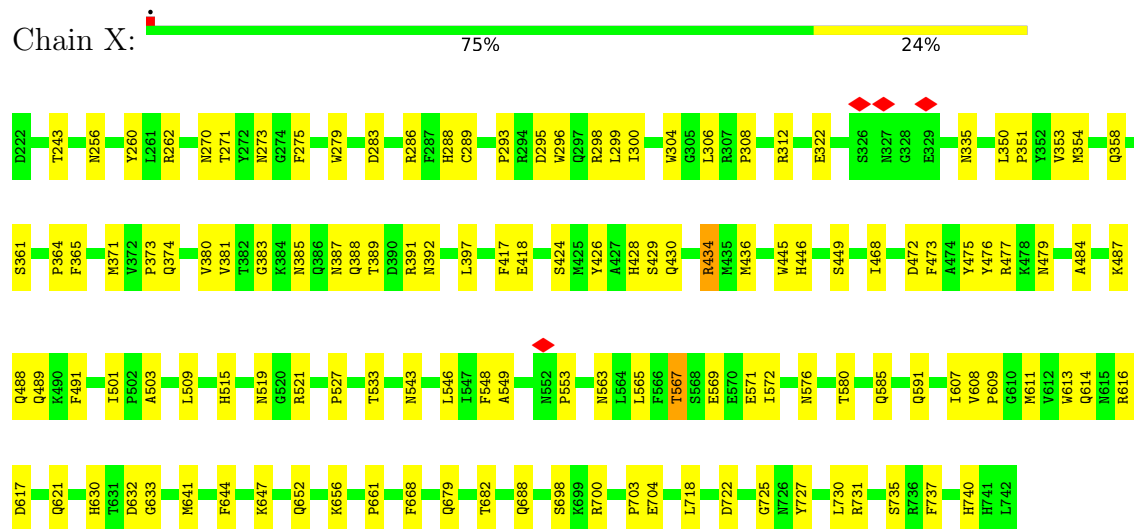
• Molecule 1: VP1



● Molecule 1: VP1

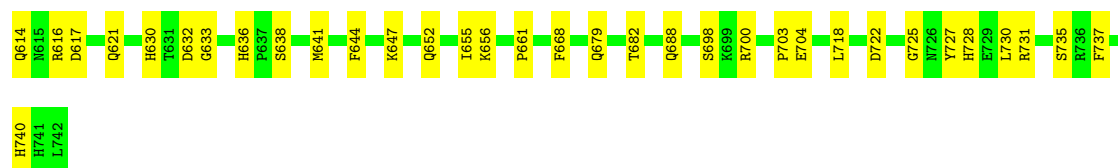


● Molecule 1: VP1

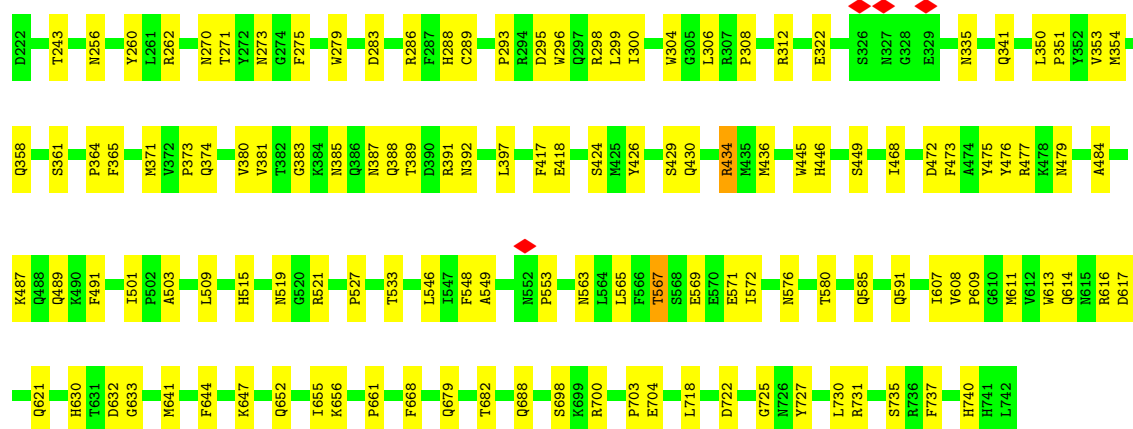
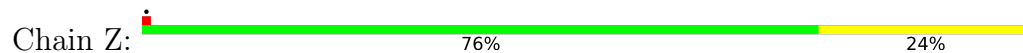


● Molecule 1: VP1

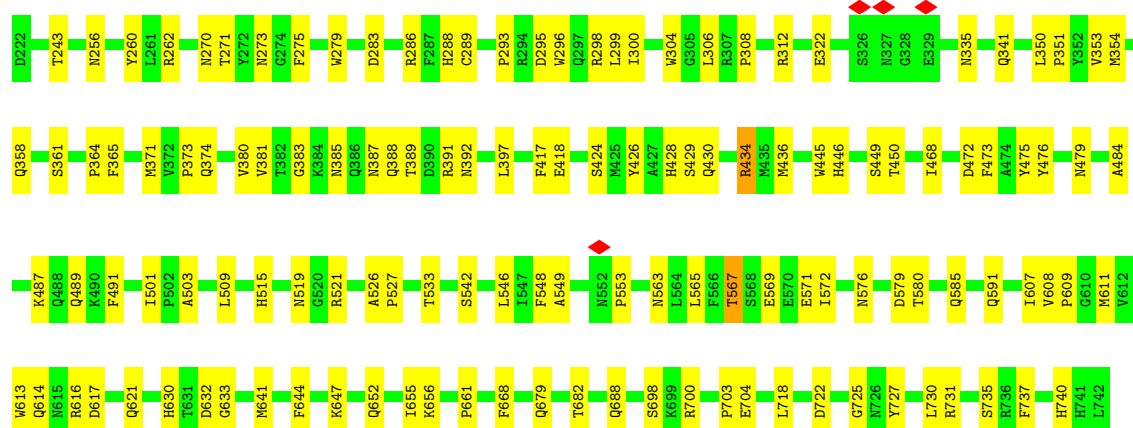
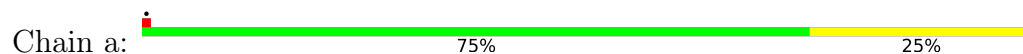




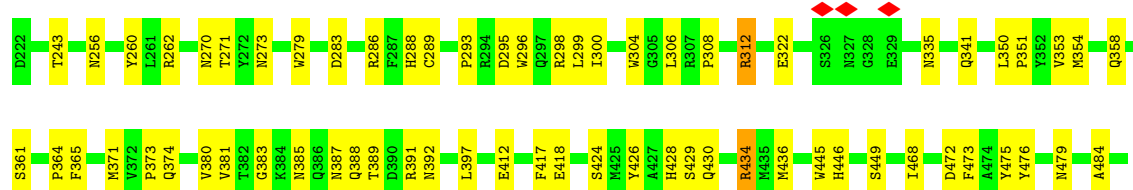
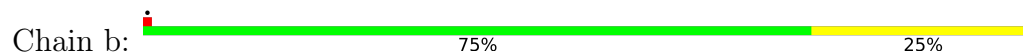
• Molecule 1: VP1

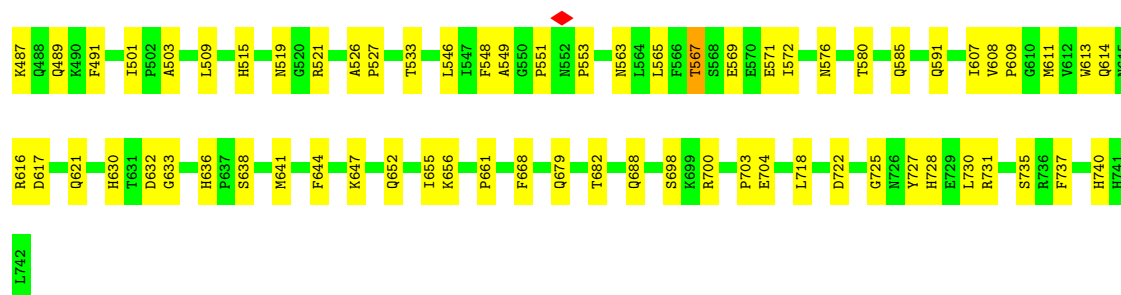


• Molecule 1: VP1

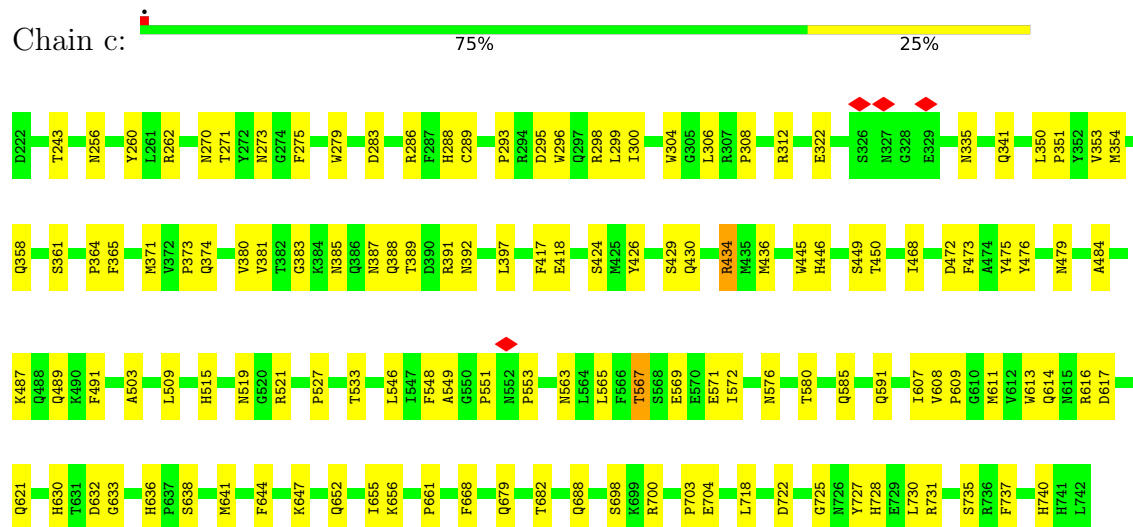


• Molecule 1: VP1

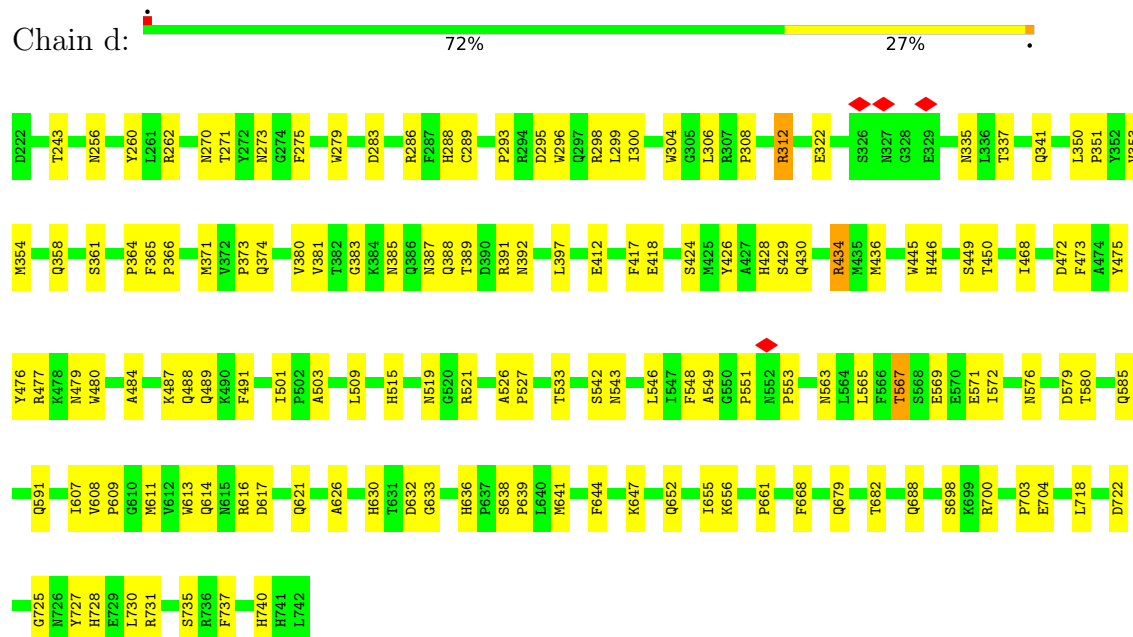




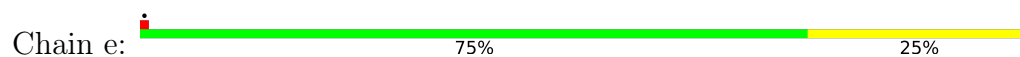
• Molecule 1: VP1

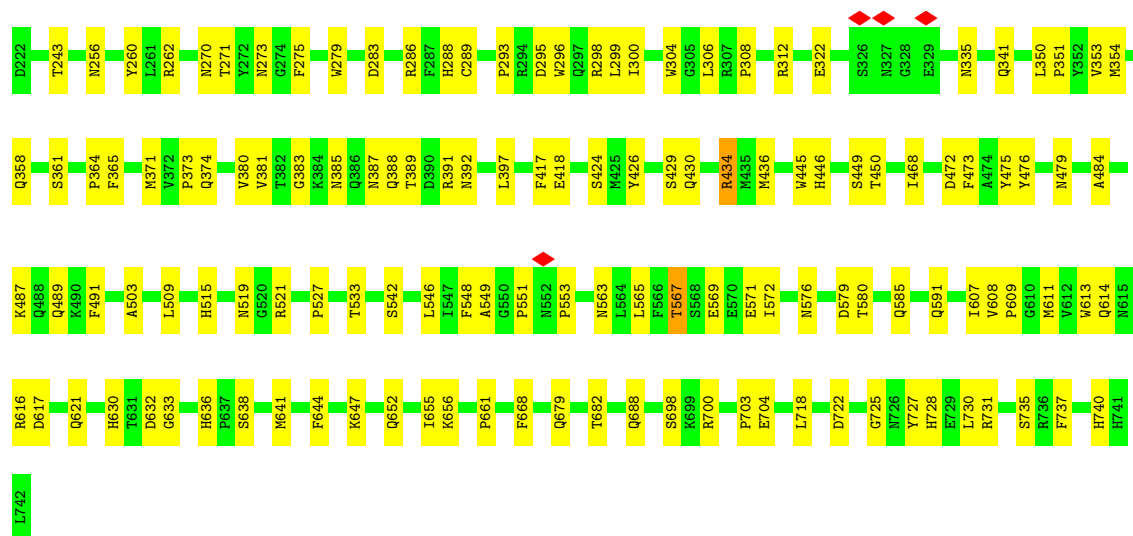


• Molecule 1: VP1

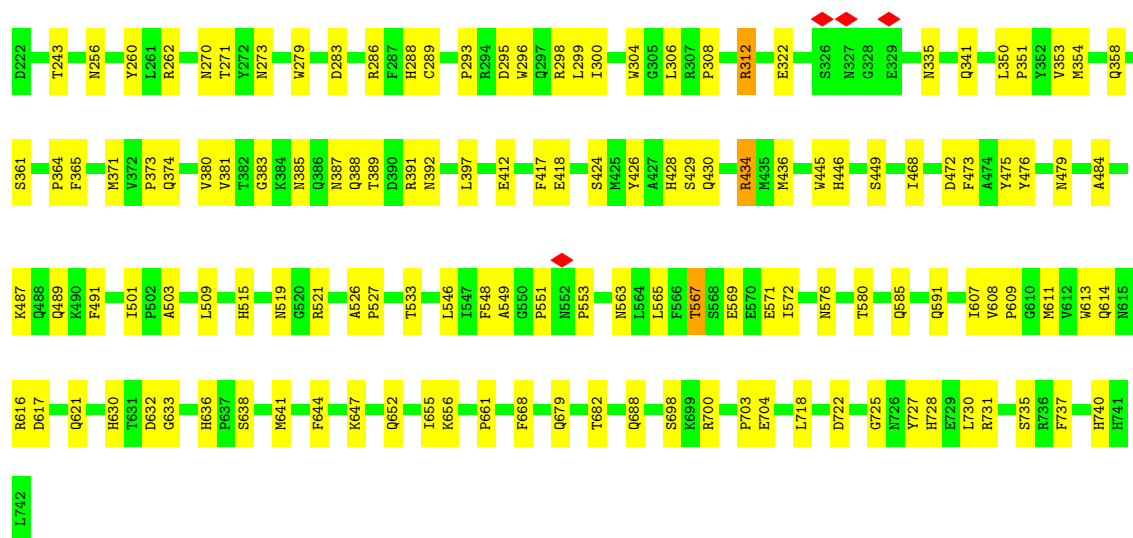


• Molecule 1: VP1

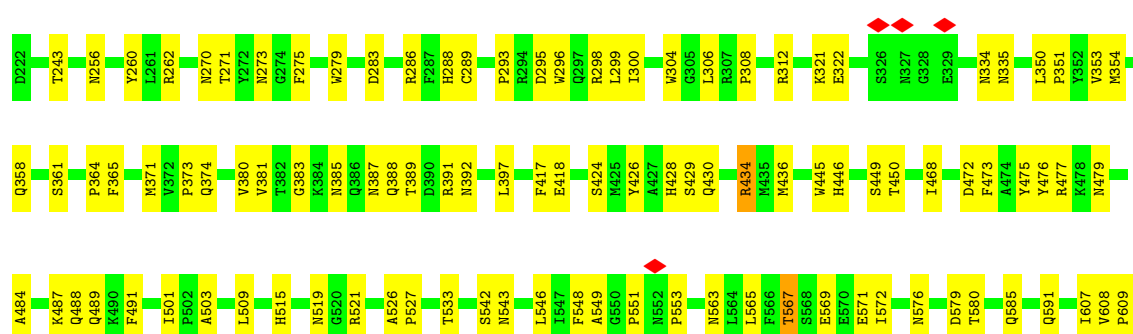


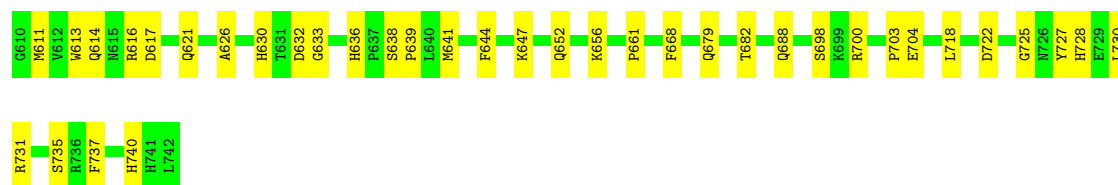


• Molecule 1: VP1



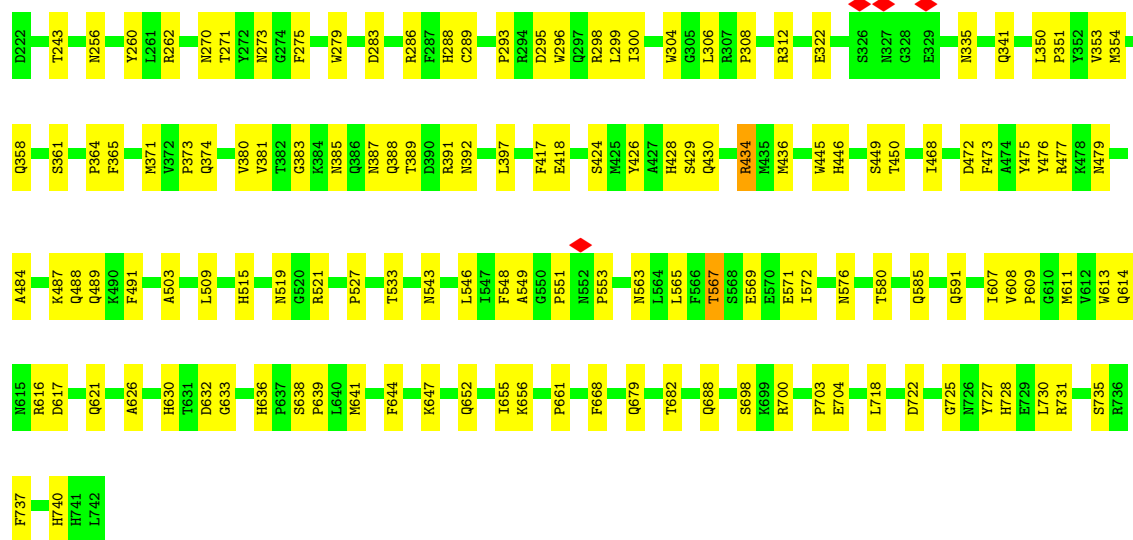
• Molecule 1: VP1





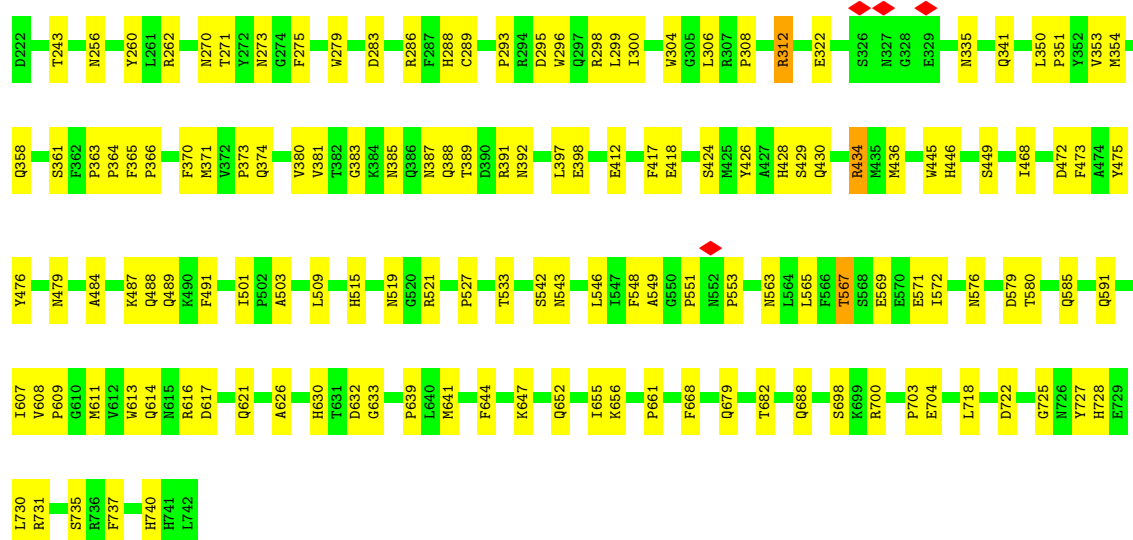
• Molecule 1: VP1

Chain h: 74% 26%



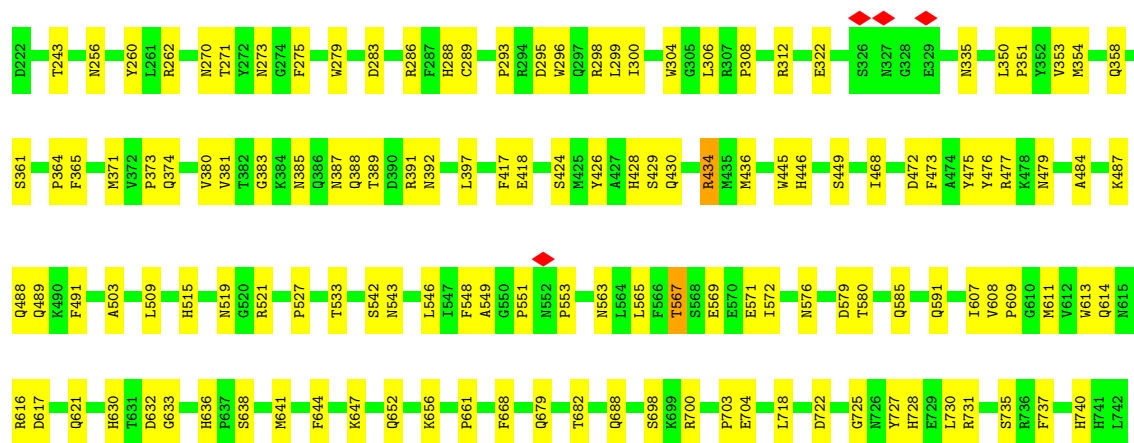
• Molecule 1: VP1

Chain i: 73% 26%



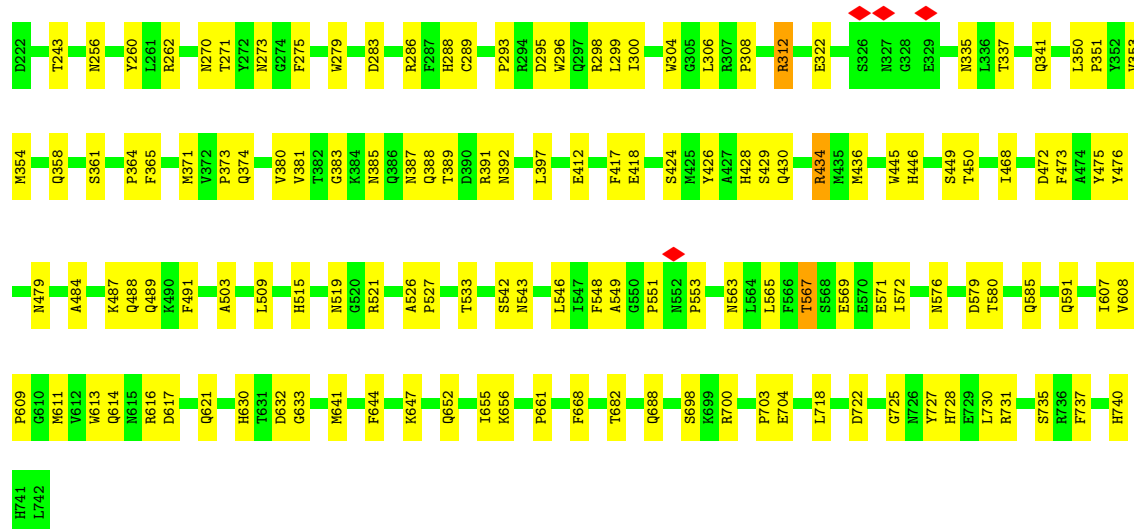
• Molecule 1: VP1

Chain j: 74% 25%



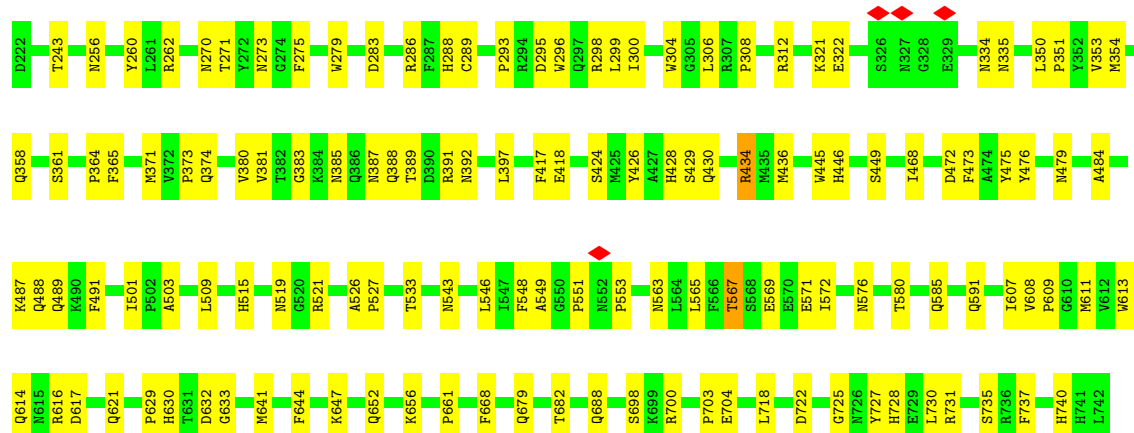
• Molecule 1: VP1

Chain k: 74% 25%



• Molecule 1: VP1

Chain l: 74% 25%

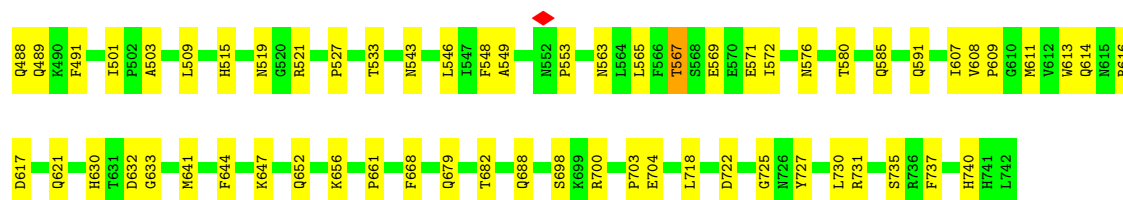


[illegible]

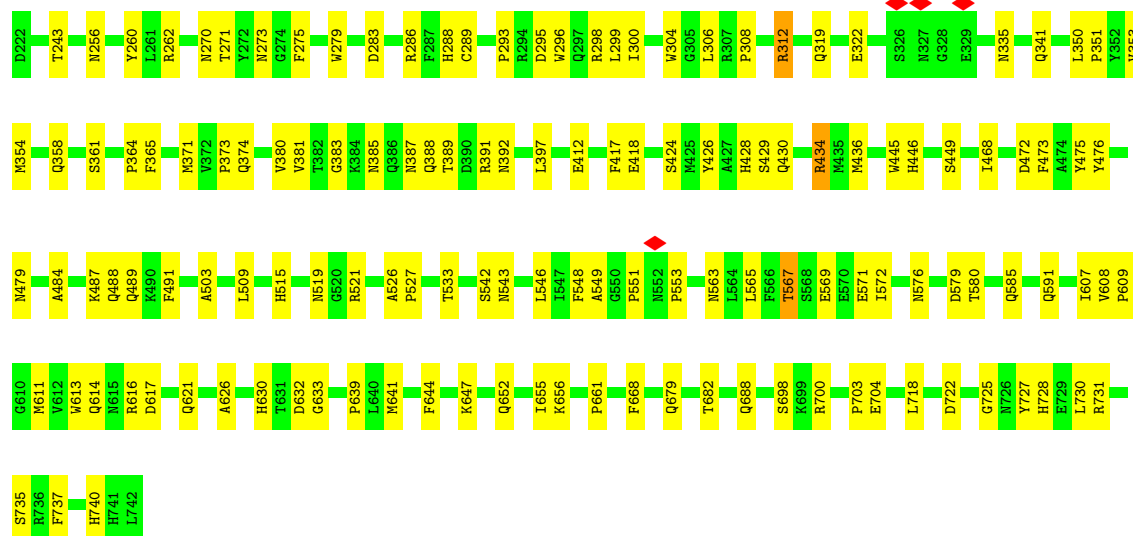
Chain n: 73% 26%

The visualization displays a network of nodes and edges. The nodes are labeled with alphanumeric codes and are color-coded based on their value. The edges represent the relationships between the nodes. The network is divided into two main sections by a vertical line. The left section contains nodes like V608, P609, G610, etc. The right section contains nodes like D222, T243, N256, etc. The nodes are color-coded based on their value, with green representing higher values and yellow/orange representing lower values. The edges represent the relationships between these nodes.

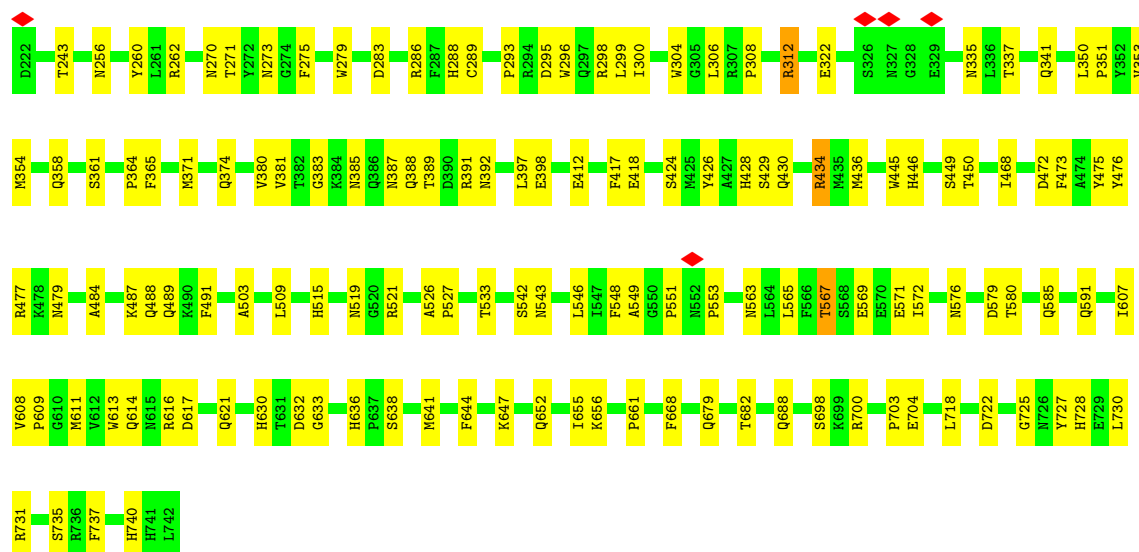
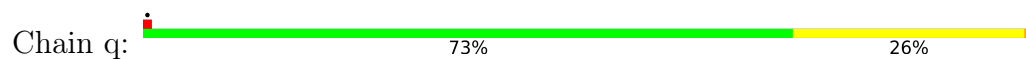
[illegible]



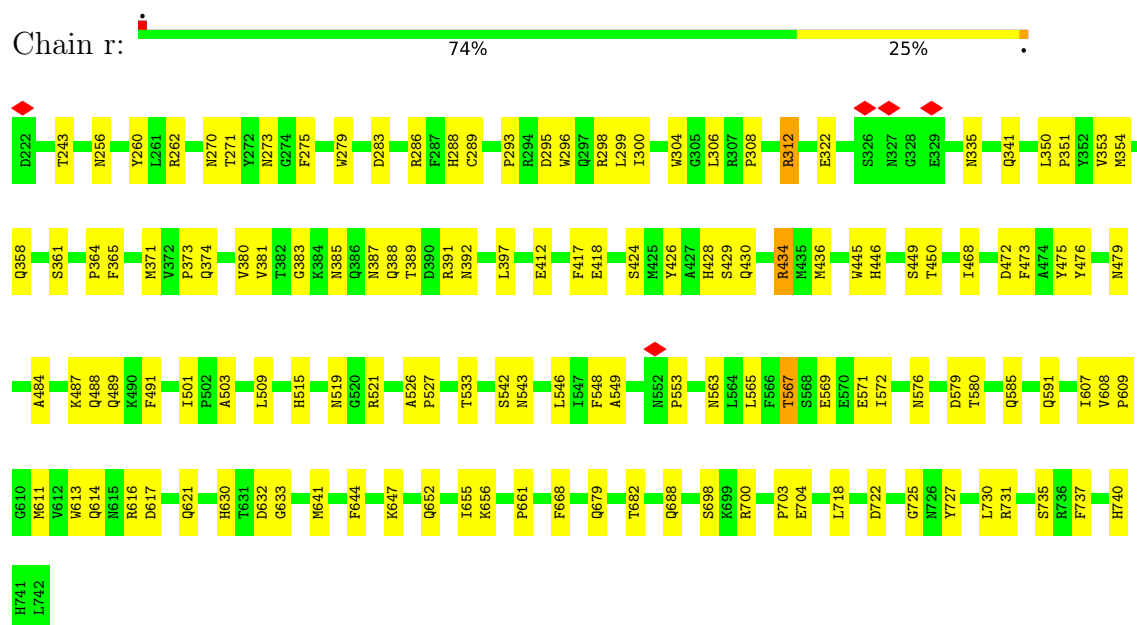
• Molecule 1: VP1



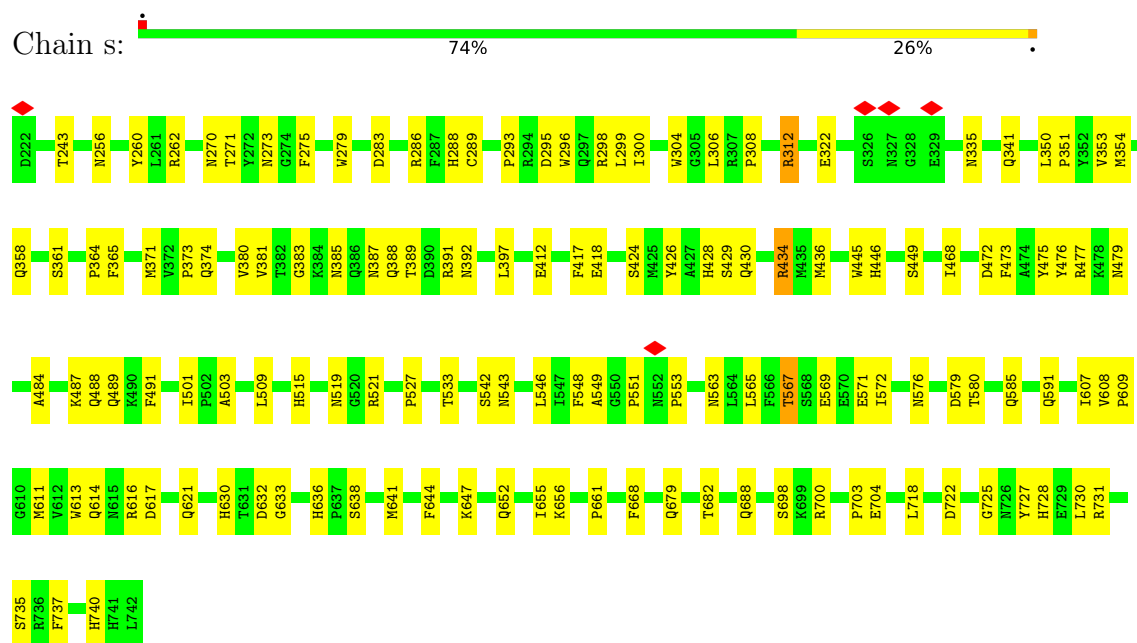
• Molecule 1: VP1



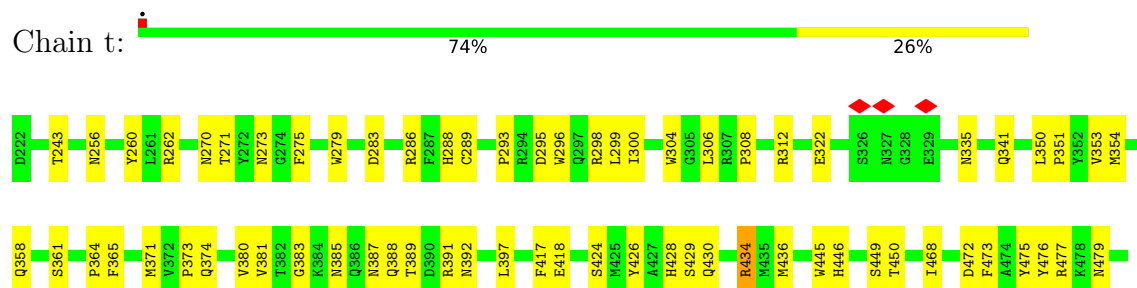
• Molecule 1: VP1

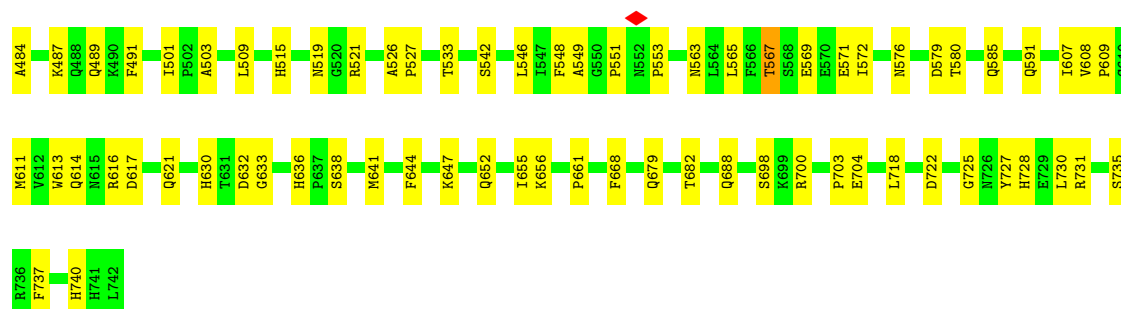


● Molecule 1: VP1



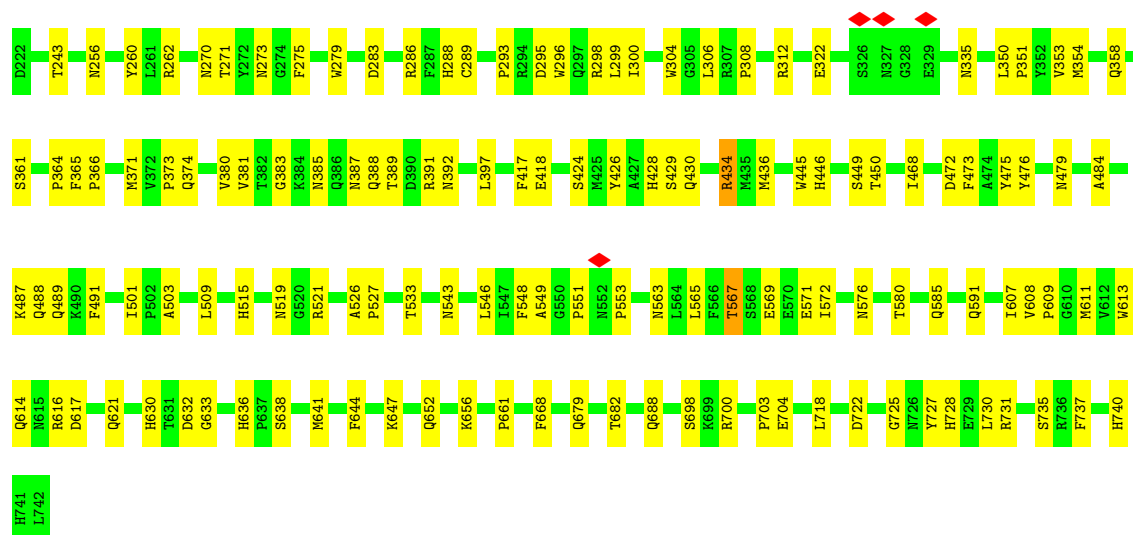
● Molecule 1: VP1





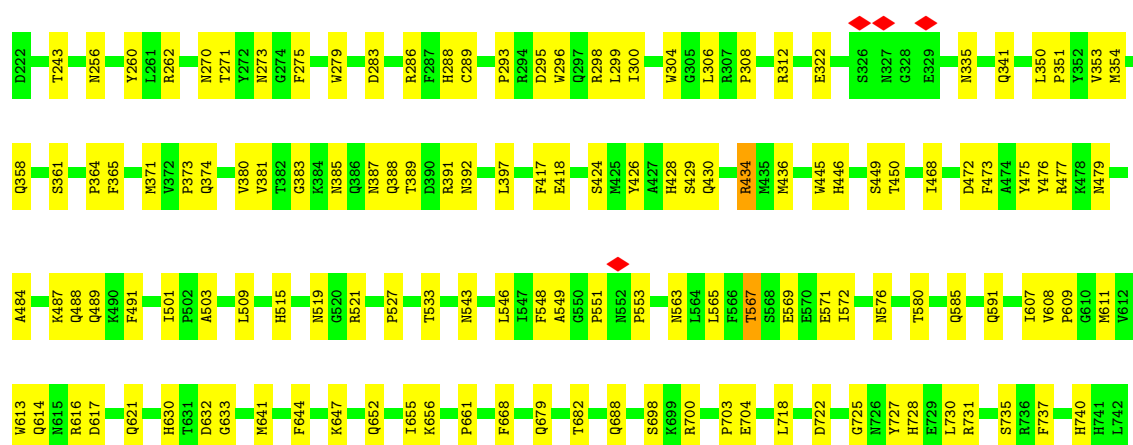
• Molecule 1: VP1

Chain u:



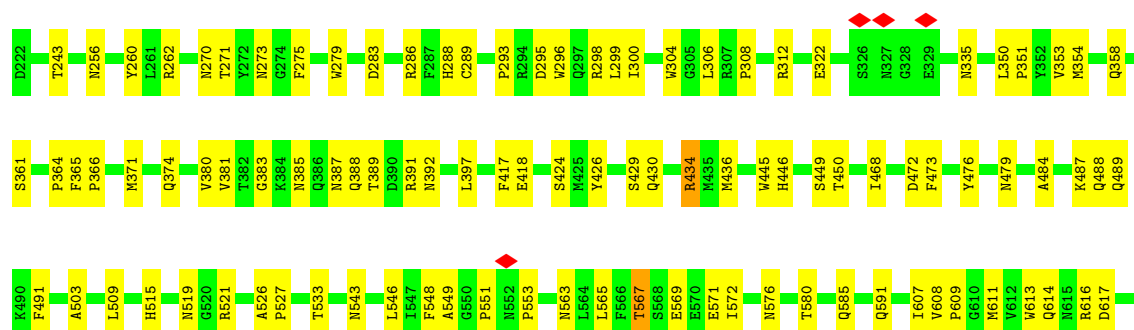
• Molecule 1: VP1

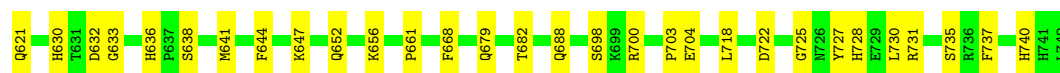
Chain v:



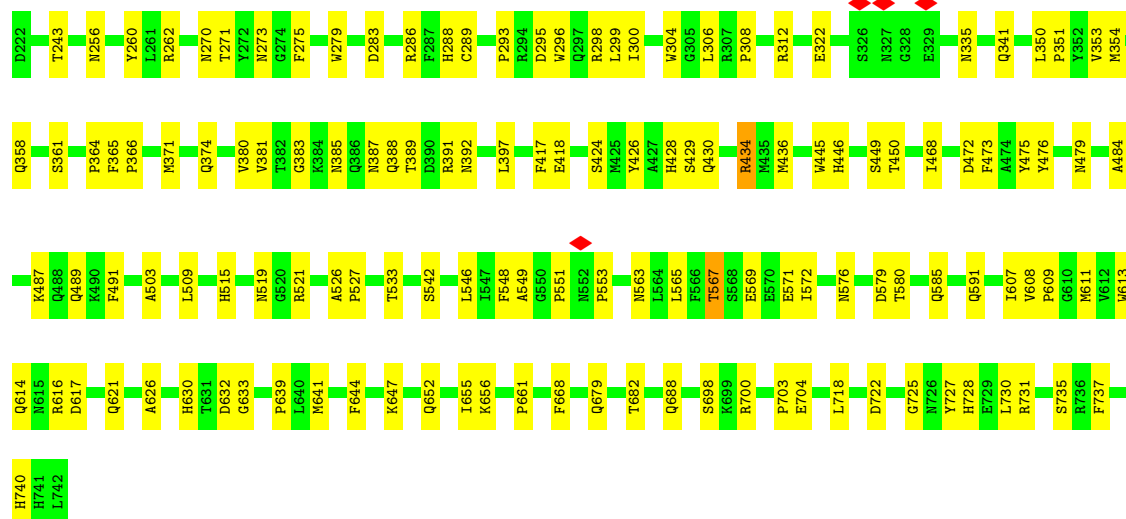
• Molecule 1: VP1

Chain w:

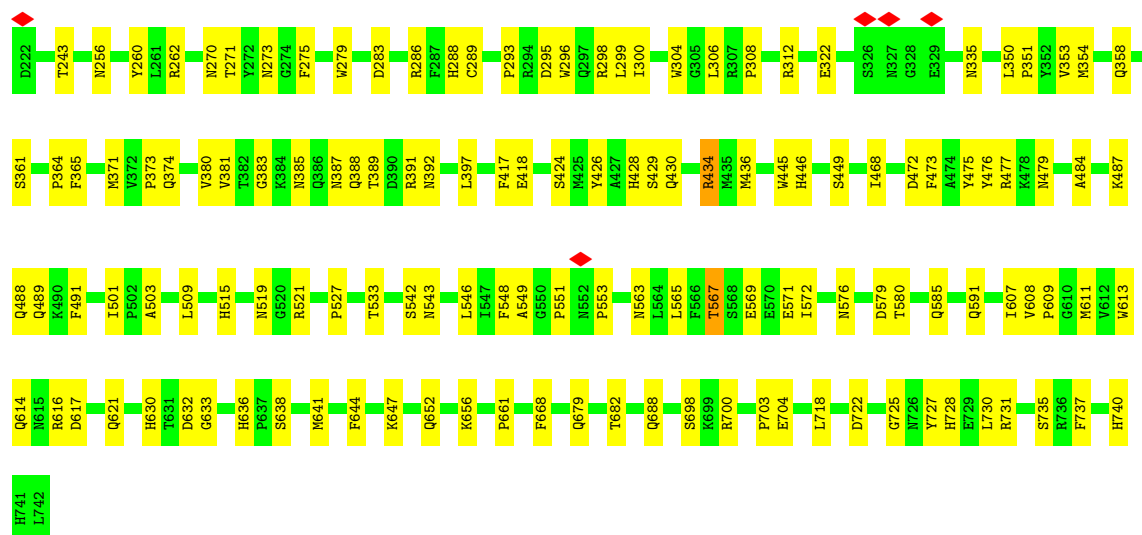
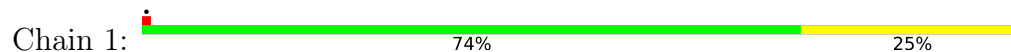




• Molecule 1: VP1

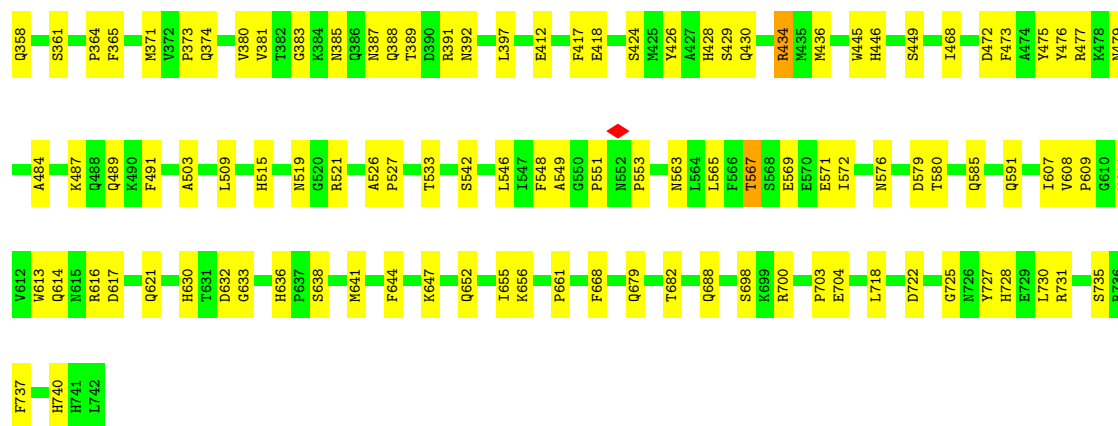


• Molecule 1: VP1

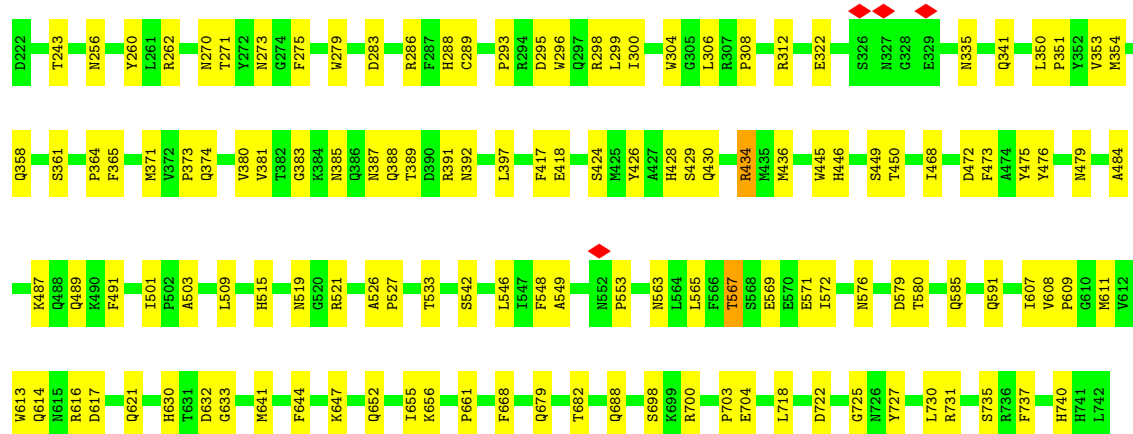
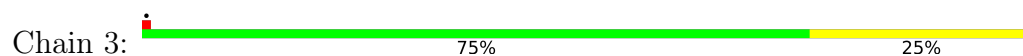


• Molecule 1: VP1

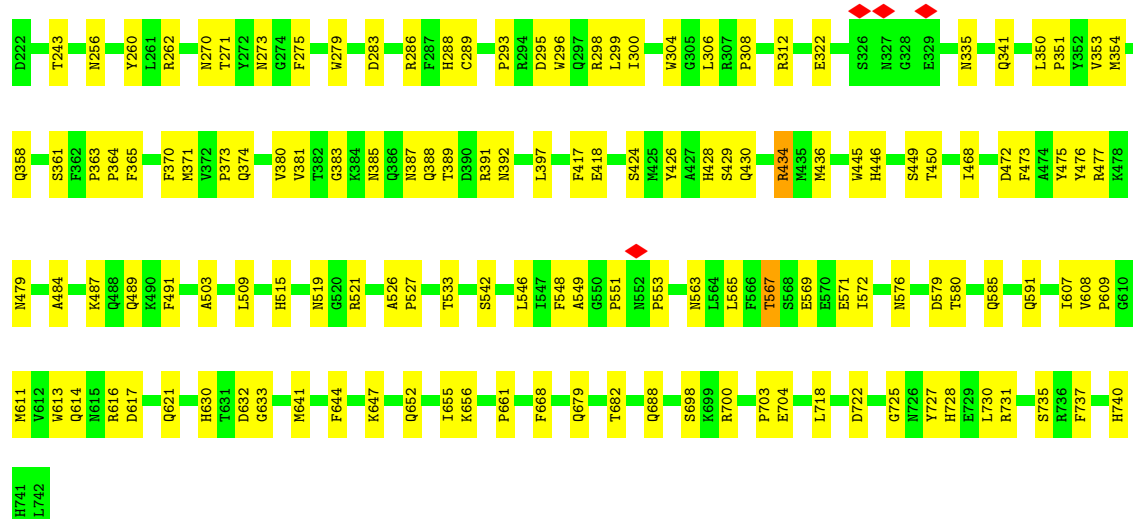
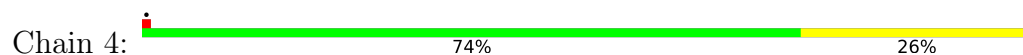


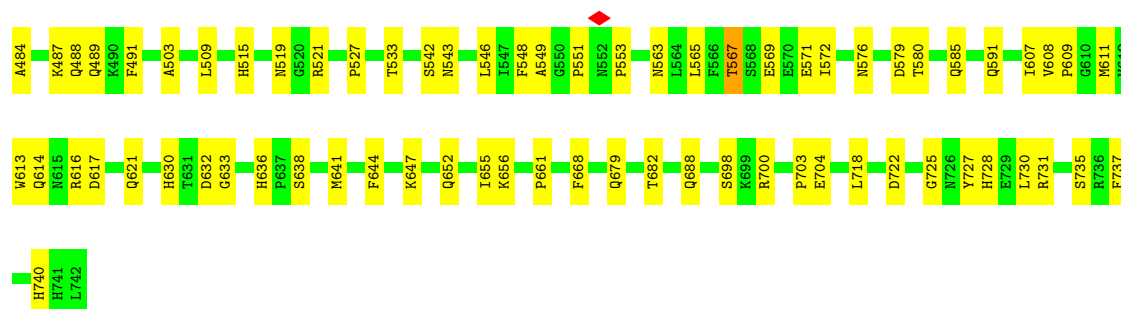


• Molecule 1: VP1

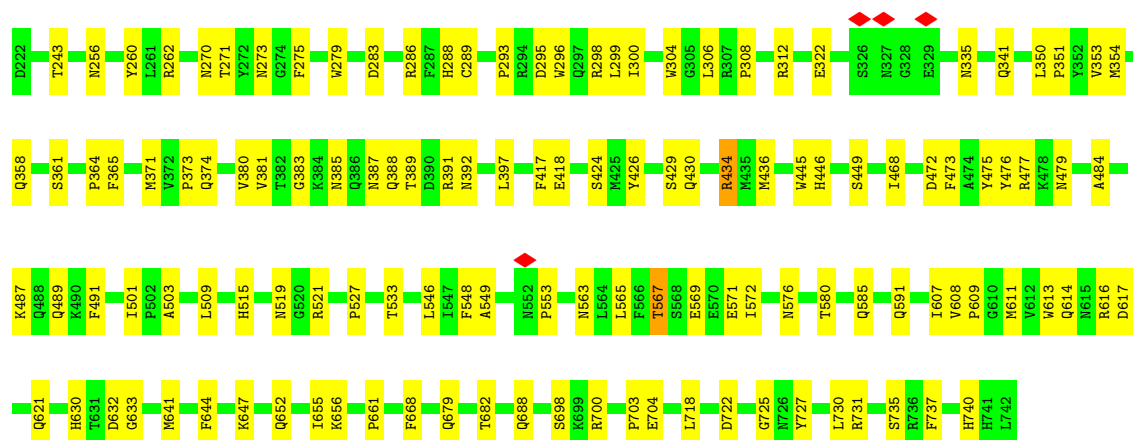
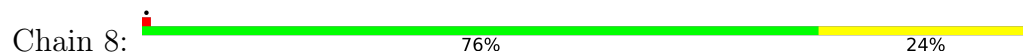


• Molecule 1: VP1





• Molecule 1: VP1



4 Experimental information

Property	Value	Source
EM reconstruction method	SINGLE PARTICLE	Depositor
Imposed symmetry	POINT, Not provided	
Number of particles used	220137	Depositor
Resolution determination method	FSC 0.143 CUT-OFF	Depositor
CTF correction method	PHASE FLIPPING AND AMPLITUDE CORRECTION	Depositor
Microscope	FEI TITAN KRIOS	Depositor
Voltage (kV)	300	Depositor
Electron dose ($e^-/\text{\AA}^2$)	60	Depositor
Minimum defocus (nm)	Not provided	
Maximum defocus (nm)	Not provided	
Magnification	Not provided	
Image detector	GATAN K3 (6k x 4k)	Depositor
Maximum map value	20.403	Depositor
Minimum map value	-10.814	Depositor
Average map value	0.000	Depositor
Map value standard deviation	1.000	Depositor
Recommended contour level	2	Depositor
Map size ($\text{\AA}$)	454.44, 454.44, 454.44	wwPDB
Map dimensions	420, 420, 420	wwPDB
Map angles ($^\circ$)	90.0, 90.0, 90.0	wwPDB
Pixel spacing ($\text{\AA}$)	1.082, 1.082, 1.082	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	0.43	0/4272	0.59	1/5832 (0.0%)
1	2	0.43	0/4272	0.59	1/5832 (0.0%)
1	3	0.43	0/4272	0.59	1/5832 (0.0%)
1	4	0.43	0/4272	0.59	1/5832 (0.0%)
1	5	0.43	0/4272	0.59	1/5832 (0.0%)
1	6	0.43	0/4272	0.59	1/5832 (0.0%)
1	7	0.43	0/4272	0.59	1/5832 (0.0%)
1	8	0.43	0/4272	0.59	1/5832 (0.0%)
1	A	0.43	0/4272	0.59	1/5832 (0.0%)
1	B	0.43	0/4272	0.59	1/5832 (0.0%)
1	C	0.43	0/4272	0.59	1/5832 (0.0%)
1	D	0.43	0/4272	0.59	1/5832 (0.0%)
1	E	0.43	0/4272	0.59	1/5832 (0.0%)
1	F	0.43	0/4272	0.59	1/5832 (0.0%)
1	G	0.43	0/4272	0.59	1/5832 (0.0%)
1	H	0.43	0/4272	0.59	1/5832 (0.0%)
1	I	0.43	0/4272	0.59	1/5832 (0.0%)
1	J	0.43	0/4272	0.59	1/5832 (0.0%)
1	K	0.43	0/4272	0.59	1/5832 (0.0%)
1	L	0.43	0/4272	0.59	1/5832 (0.0%)
1	M	0.43	0/4272	0.59	1/5832 (0.0%)
1	N	0.43	0/4272	0.59	1/5832 (0.0%)
1	O	0.43	0/4272	0.59	1/5832 (0.0%)
1	P	0.43	0/4272	0.59	1/5832 (0.0%)
1	Q	0.43	0/4272	0.59	1/5832 (0.0%)
1	R	0.43	0/4272	0.59	1/5832 (0.0%)
1	S	0.43	0/4272	0.59	1/5832 (0.0%)
1	T	0.43	0/4272	0.59	1/5832 (0.0%)
1	U	0.43	0/4272	0.59	1/5832 (0.0%)
1	V	0.43	0/4272	0.59	1/5832 (0.0%)
1	W	0.43	0/4272	0.59	1/5832 (0.0%)
1	X	0.43	0/4272	0.59	1/5832 (0.0%)
1	Y	0.43	0/4272	0.59	1/5832 (0.0%)
1	Z	0.43	0/4272	0.59	1/5832 (0.0%)

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	# Z >5	RMSZ	# Z >5
1	a	0.43	0/4272	0.59	1/5832 (0.0%)
1	b	0.43	0/4272	0.59	1/5832 (0.0%)
1	c	0.43	0/4272	0.59	1/5832 (0.0%)
1	d	0.43	0/4272	0.59	1/5832 (0.0%)
1	e	0.43	0/4272	0.59	1/5832 (0.0%)
1	f	0.43	0/4272	0.59	1/5832 (0.0%)
1	g	0.43	0/4272	0.59	1/5832 (0.0%)
1	h	0.43	0/4272	0.59	1/5832 (0.0%)
1	i	0.43	0/4272	0.60	1/5832 (0.0%)
1	j	0.43	0/4272	0.60	1/5832 (0.0%)
1	k	0.43	0/4272	0.59	1/5832 (0.0%)
1	l	0.43	0/4272	0.59	1/5832 (0.0%)
1	m	0.43	0/4272	0.59	1/5832 (0.0%)
1	n	0.43	0/4272	0.59	1/5832 (0.0%)
1	o	0.43	0/4272	0.59	1/5832 (0.0%)
1	p	0.43	0/4272	0.59	1/5832 (0.0%)
1	q	0.43	0/4272	0.59	1/5832 (0.0%)
1	r	0.43	0/4272	0.59	1/5832 (0.0%)
1	s	0.43	0/4272	0.59	1/5832 (0.0%)
1	t	0.43	0/4272	0.59	1/5832 (0.0%)
1	u	0.43	0/4272	0.59	1/5832 (0.0%)
1	v	0.43	0/4272	0.59	1/5832 (0.0%)
1	w	0.43	0/4272	0.59	1/5832 (0.0%)
1	x	0.43	0/4272	0.59	1/5832 (0.0%)
1	y	0.43	0/4272	0.59	1/5832 (0.0%)
1	z	0.43	0/4272	0.59	1/5832 (0.0%)
All	All	0.43	0/256320	0.59	60/349920 (0.0%)

There are no bond length outliers.

All (60) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	D	434	ARG	CA-CB-CG	-5.45	103.19	114.10
1	W	434	ARG	CA-CB-CG	-5.45	103.19	114.10
1	6	434	ARG	CA-CB-CG	-5.45	103.19	114.10
1	F	434	ARG	CA-CB-CG	-5.45	103.21	114.10
1	N	434	ARG	CA-CB-CG	-5.45	103.21	114.10
1	Y	434	ARG	CA-CB-CG	-5.45	103.21	114.10
1	i	434	ARG	CA-CB-CG	-5.45	103.21	114.10
1	v	434	ARG	CA-CB-CG	-5.45	103.21	114.10
1	y	434	ARG	CA-CB-CG	-5.45	103.21	114.10
1	3	434	ARG	CA-CB-CG	-5.45	103.21	114.10

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	7	434	ARG	CA-CB-CG	-5.45	103.21	114.10
1	I	434	ARG	CA-CB-CG	-5.44	103.21	114.10
1	J	434	ARG	CA-CB-CG	-5.44	103.21	114.10
1	K	434	ARG	CA-CB-CG	-5.44	103.21	114.10
1	Q	434	ARG	CA-CB-CG	-5.44	103.21	114.10
1	S	434	ARG	CA-CB-CG	-5.44	103.21	114.10
1	m	434	ARG	CA-CB-CG	-5.44	103.21	114.10
1	r	434	ARG	CA-CB-CG	-5.44	103.21	114.10
1	u	434	ARG	CA-CB-CG	-5.44	103.21	114.10
1	x	434	ARG	CA-CB-CG	-5.44	103.21	114.10
1	2	434	ARG	CA-CB-CG	-5.44	103.21	114.10
1	j	434	ARG	CA-CB-CG	-5.44	103.22	114.10
1	A	434	ARG	CA-CB-CG	-5.44	103.23	114.10
1	a	434	ARG	CA-CB-CG	-5.44	103.23	114.10
1	b	434	ARG	CA-CB-CG	-5.44	103.23	114.10
1	c	434	ARG	CA-CB-CG	-5.44	103.23	114.10
1	d	434	ARG	CA-CB-CG	-5.44	103.23	114.10
1	e	434	ARG	CA-CB-CG	-5.44	103.23	114.10
1	f	434	ARG	CA-CB-CG	-5.44	103.23	114.10
1	n	434	ARG	CA-CB-CG	-5.44	103.23	114.10
1	L	434	ARG	CA-CB-CG	-5.43	103.23	114.10
1	U	434	ARG	CA-CB-CG	-5.43	103.23	114.10
1	s	434	ARG	CA-CB-CG	-5.43	103.23	114.10
1	M	434	ARG	CA-CB-CG	-5.43	103.24	114.10
1	X	434	ARG	CA-CB-CG	-5.43	103.24	114.10
1	o	434	ARG	CA-CB-CG	-5.43	103.24	114.10
1	E	434	ARG	CA-CB-CG	-5.43	103.24	114.10
1	G	434	ARG	CA-CB-CG	-5.43	103.24	114.10
1	h	434	ARG	CA-CB-CG	-5.43	103.24	114.10
1	t	434	ARG	CA-CB-CG	-5.43	103.24	114.10
1	w	434	ARG	CA-CB-CG	-5.43	103.24	114.10
1	B	434	ARG	CA-CB-CG	-5.43	103.25	114.10
1	R	434	ARG	CA-CB-CG	-5.43	103.25	114.10
1	q	434	ARG	CA-CB-CG	-5.43	103.25	114.10
1	l	434	ARG	CA-CB-CG	-5.43	103.25	114.10
1	C	434	ARG	CA-CB-CG	-5.42	103.25	114.10
1	T	434	ARG	CA-CB-CG	-5.42	103.25	114.10
1	V	434	ARG	CA-CB-CG	-5.42	103.25	114.10
1	g	434	ARG	CA-CB-CG	-5.42	103.25	114.10
1	p	434	ARG	CA-CB-CG	-5.42	103.25	114.10
1	4	434	ARG	CA-CB-CG	-5.42	103.25	114.10
1	H	434	ARG	CA-CB-CG	-5.42	103.26	114.10

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	P	434	ARG	CA-CB-CG	-5.42	103.26	114.10
1	k	434	ARG	CA-CB-CG	-5.42	103.26	114.10
1	5	434	ARG	CA-CB-CG	-5.42	103.26	114.10
1	z	434	ARG	CA-CB-CG	-5.41	103.28	114.10
1	O	434	ARG	CA-CB-CG	-5.41	103.28	114.10
1	Z	434	ARG	CA-CB-CG	-5.41	103.28	114.10
1	l	434	ARG	CA-CB-CG	-5.41	103.28	114.10
1	8	434	ARG	CA-CB-CG	-5.41	103.28	114.10

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	4142	0	3872	117	0
1	2	4142	0	3872	117	0
1	3	4142	0	3872	114	0
1	4	4142	0	3872	116	0
1	5	4142	0	3872	119	0
1	6	4142	0	3872	116	0
1	7	4142	0	3872	117	0
1	8	4142	0	3872	111	0
1	A	4142	0	3872	117	0
1	B	4142	0	3872	117	0
1	C	4142	0	3872	119	0
1	D	4142	0	3872	115	0
1	E	4142	0	3872	116	0
1	F	4142	0	3872	114	0
1	G	4142	0	3872	118	0
1	H	4142	0	3872	118	0
1	I	4142	0	3872	121	0
1	J	4142	0	3872	117	0
1	K	4142	0	3872	116	0
1	L	4142	0	3872	116	0
1	M	4142	0	3872	118	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	N	4142	0	3872	116	0
1	O	4142	0	3872	117	0
1	P	4142	0	3872	115	0
1	Q	4142	0	3872	117	0
1	R	4142	0	3872	122	0
1	S	4142	0	3872	119	0
1	T	4142	0	3872	117	0
1	U	4142	0	3872	119	0
1	V	4142	0	3872	116	0
1	W	4142	0	3872	117	0
1	X	4142	0	3872	113	0
1	Y	4142	0	3872	116	0
1	Z	4142	0	3872	111	0
1	a	4142	0	3872	114	0
1	b	4142	0	3872	115	0
1	c	4142	0	3872	115	0
1	d	4142	0	3872	123	0
1	e	4142	0	3872	115	0
1	f	4142	0	3872	115	0
1	g	4142	0	3872	120	0
1	h	4142	0	3872	118	0
1	i	4142	0	3872	121	0
1	j	4142	0	3872	115	0
1	k	4142	0	3872	115	0
1	l	4142	0	3872	115	0
1	m	4142	0	3872	116	0
1	n	4142	0	3872	120	0
1	o	4142	0	3872	113	0
1	p	4142	0	3872	116	0
1	q	4142	0	3872	120	0
1	r	4142	0	3872	117	0
1	s	4142	0	3872	118	0
1	t	4142	0	3872	118	0
1	u	4142	0	3872	119	0
1	v	4142	0	3872	117	0
1	w	4142	0	3872	116	0
1	x	4142	0	3872	117	0
1	y	4142	0	3872	113	0
1	z	4142	0	3872	115	0
All	All	248520	0	232320	5396	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 11.

All (5396) 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:A:271:THR:O	1:I:434:ARG:NH1	2.03	0.92
1:H:271:THR:O	1:Y:434:ARG:NH1	2.03	0.92
1:u:434:ARG:NH1	1:v:271:THR:O	2.03	0.92
1:5:271:THR:O	1:7:434:ARG:NH1	2.03	0.92
1:T:434:ARG:NH1	1:d:271:THR:O	2.03	0.92
1:m:434:ARG:NH1	1:n:271:THR:O	2.03	0.92
1:O:434:ARG:NH1	1:m:271:THR:O	2.02	0.92
1:w:434:ARG:NH1	1:x:271:THR:O	2.03	0.92
1:E:434:ARG:NH1	1:Q:271:THR:O	2.03	0.92
1:T:271:THR:O	1:l:434:ARG:NH1	2.02	0.92
1:B:271:THR:O	1:L:434:ARG:NH1	2.03	0.92
1:R:434:ARG:NH1	1:S:271:THR:O	2.03	0.92
1:q:434:ARG:NH1	1:r:271:THR:O	2.03	0.92
1:r:434:ARG:NH1	1:s:271:THR:O	2.03	0.92
1:C:434:ARG:NH1	1:b:271:THR:O	2.03	0.92
1:J:434:ARG:NH1	1:L:271:THR:O	2.03	0.92
1:S:434:ARG:NH1	1:U:271:THR:O	2.03	0.92
1:i:434:ARG:NH1	1:j:271:THR:O	2.03	0.92
1:z:434:ARG:NH1	1:1:271:THR:O	2.03	0.92
1:B:434:ARG:NH1	1:J:271:THR:O	2.03	0.91
1:N:434:ARG:NH1	1:P:271:THR:O	2.03	0.91
1:o:434:ARG:NH1	1:p:271:THR:O	2.02	0.91
1:M:271:THR:O	1:b:434:ARG:NH1	2.03	0.91
1:V:271:THR:O	1:X:434:ARG:NH1	2.02	0.91
1:a:434:ARG:NH1	1:8:271:THR:O	2.03	0.91
1:1:434:ARG:NH1	1:2:271:THR:O	2.03	0.91
1:D:434:ARG:NH1	1:N:271:THR:O	2.03	0.91
1:f:271:THR:O	1:g:434:ARG:NH1	2.03	0.91
1:f:434:ARG:NH1	1:h:271:THR:O	2.03	0.91
1:5:434:ARG:NH1	1:6:271:THR:O	2.03	0.91
1:6:434:ARG:NH1	1:7:271:THR:O	2.03	0.91
1:H:434:ARG:NH1	1:W:271:THR:O	2.03	0.91
1:Z:271:THR:O	1:3:434:ARG:NH1	2.03	0.91
1:i:271:THR:O	1:k:434:ARG:NH1	2.03	0.91
1:z:271:THR:O	1:2:434:ARG:NH1	2.03	0.91
1:W:434:ARG:NH1	1:Y:271:THR:O	2.03	0.91
1:C:271:THR:O	1:M:434:ARG:NH1	2.02	0.91
1:X:271:THR:O	1:e:434:ARG:NH1	2.03	0.91
1:g:271:THR:O	1:h:434:ARG:NH1	2.02	0.91
1:d:434:ARG:NH1	1:l:271:THR:O	2.03	0.91

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:j:434:ARG:NH1	1:k:271:THR:O	2.03	0.91
1:t:434:ARG:NH1	1:u:271:THR:O	2.03	0.91
1:F:271:THR:O	1:Q:434:ARG:NH1	2.03	0.91
1:G:434:ARG:NH1	1:I:271:THR:O	2.03	0.91
1:K:271:THR:O	1:8:434:ARG:NH1	2.02	0.91
1:Z:434:ARG:NH1	1:4:271:THR:O	2.02	0.91
1:c:434:ARG:NH1	1:o:271:THR:O	2.03	0.91
1:D:271:THR:O	1:P:434:ARG:NH1	2.03	0.91
1:E:271:THR:O	1:F:434:ARG:NH1	2.03	0.91
1:O:271:THR:O	1:n:434:ARG:NH1	2.03	0.91
1:x:434:ARG:NH1	1:y:271:THR:O	2.03	0.90
1:3:271:THR:O	1:4:434:ARG:NH1	2.03	0.90
1:w:271:THR:O	1:y:434:ARG:NH1	2.03	0.90
1:K:434:ARG:NH1	1:a:271:THR:O	2.03	0.90
1:c:271:THR:O	1:p:434:ARG:NH1	2.03	0.90
1:A:434:ARG:NH1	1:G:271:THR:O	2.03	0.90
1:V:434:ARG:NH1	1:e:271:THR:O	2.03	0.90
1:q:271:THR:O	1:s:434:ARG:NH1	2.03	0.90
1:R:271:THR:O	1:U:434:ARG:NH1	2.03	0.90
1:t:271:THR:O	1:v:434:ARG:NH1	2.03	0.90
1:V:322:GLU:HG3	1:V:335:ASN:HB2	1.62	0.82
1:p:322:GLU:HG3	1:p:335:ASN:HB2	1.62	0.82
1:S:322:GLU:HG3	1:S:335:ASN:HB2	1.62	0.82
1:r:322:GLU:HG3	1:r:335:ASN:HB2	1.62	0.82
1:J:322:GLU:HG3	1:J:335:ASN:HB2	1.62	0.82
1:Z:322:GLU:HG3	1:Z:335:ASN:HB2	1.62	0.82
1:T:322:GLU:HG3	1:T:335:ASN:HB2	1.62	0.82
1:X:322:GLU:HG3	1:X:335:ASN:HB2	1.62	0.82
1:o:322:GLU:HG3	1:o:335:ASN:HB2	1.62	0.82
1:y:322:GLU:HG3	1:y:335:ASN:HB2	1.62	0.82
1:8:322:GLU:HG3	1:8:335:ASN:HB2	1.62	0.82
1:B:322:GLU:HG3	1:B:335:ASN:HB2	1.62	0.82
1:F:322:GLU:HG3	1:F:335:ASN:HB2	1.62	0.82
1:M:322:GLU:HG3	1:M:335:ASN:HB2	1.62	0.82
1:O:322:GLU:HG3	1:O:335:ASN:HB2	1.62	0.82
1:Y:322:GLU:HG3	1:Y:335:ASN:HB2	1.62	0.82
1:h:322:GLU:HG3	1:h:335:ASN:HB2	1.62	0.82
1:m:322:GLU:HG3	1:m:335:ASN:HB2	1.62	0.82
1:2:322:GLU:HG3	1:2:335:ASN:HB2	1.62	0.82
1:l:322:GLU:HG3	1:l:335:ASN:HB2	1.62	0.81
1:7:322:GLU:HG3	1:7:335:ASN:HB2	1.62	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1:322:GLU:HG3	1:1:335:ASN:HB2	1.62	0.81
1:L:322:GLU:HG3	1:L:335:ASN:HB2	1.62	0.81
1:W:322:GLU:HG3	1:W:335:ASN:HB2	1.62	0.81
1:e:322:GLU:HG3	1:e:335:ASN:HB2	1.62	0.81
1:z:322:GLU:HG3	1:z:335:ASN:HB2	1.62	0.81
1:D:322:GLU:HG3	1:D:335:ASN:HB2	1.62	0.81
1:N:322:GLU:HG3	1:N:335:ASN:HB2	1.62	0.81
1:c:322:GLU:HG3	1:c:335:ASN:HB2	1.62	0.81
1:k:322:GLU:HG3	1:k:335:ASN:HB2	1.62	0.81
1:i:322:GLU:HG3	1:i:335:ASN:HB2	1.62	0.81
1:v:322:GLU:HG3	1:v:335:ASN:HB2	1.62	0.81
1:6:322:GLU:HG3	1:6:335:ASN:HB2	1.62	0.81
1:A:322:GLU:HG3	1:A:335:ASN:HB2	1.62	0.81
1:Q:322:GLU:HG3	1:Q:335:ASN:HB2	1.62	0.81
1:x:322:GLU:HG3	1:x:335:ASN:HB2	1.62	0.81
1:U:322:GLU:HG3	1:U:335:ASN:HB2	1.62	0.81
1:s:322:GLU:HG3	1:s:335:ASN:HB2	1.62	0.81
1:C:322:GLU:HG3	1:C:335:ASN:HB2	1.62	0.80
1:d:322:GLU:HG3	1:d:335:ASN:HB2	1.62	0.80
1:g:322:GLU:HG3	1:g:335:ASN:HB2	1.62	0.80
1:n:322:GLU:HG3	1:n:335:ASN:HB2	1.62	0.80
1:w:322:GLU:HG3	1:w:335:ASN:HB2	1.62	0.80
1:I:322:GLU:HG3	1:I:335:ASN:HB2	1.62	0.80
1:E:322:GLU:HG3	1:E:335:ASN:HB2	1.62	0.80
1:G:322:GLU:HG3	1:G:335:ASN:HB2	1.62	0.80
1:K:322:GLU:HG3	1:K:335:ASN:HB2	1.62	0.80
1:a:322:GLU:HG3	1:a:335:ASN:HB2	1.62	0.80
1:j:322:GLU:HG3	1:j:335:ASN:HB2	1.62	0.80
1:u:322:GLU:HG3	1:u:335:ASN:HB2	1.62	0.80
1:P:322:GLU:HG3	1:P:335:ASN:HB2	1.62	0.80
1:4:322:GLU:HG3	1:4:335:ASN:HB2	1.62	0.80
1:b:322:GLU:HG3	1:b:335:ASN:HB2	1.62	0.79
1:3:322:GLU:HG3	1:3:335:ASN:HB2	1.62	0.79
1:f:322:GLU:HG3	1:f:335:ASN:HB2	1.62	0.79
1:t:322:GLU:HG3	1:t:335:ASN:HB2	1.62	0.79
1:H:322:GLU:HG3	1:H:335:ASN:HB2	1.62	0.79
1:R:322:GLU:HG3	1:R:335:ASN:HB2	1.62	0.79
1:5:322:GLU:HG3	1:5:335:ASN:HB2	1.62	0.79
1:q:322:GLU:HG3	1:q:335:ASN:HB2	1.62	0.79
1:D:353:VAL:H	1:D:652:GLN:HE22	1.35	0.75
1:N:353:VAL:H	1:N:652:GLN:HE22	1.35	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:U:353:VAL:H	1:U:652:GLN:HE22	1.35	0.75
1:k:353:VAL:H	1:k:652:GLN:HE22	1.35	0.75
1:z:353:VAL:H	1:z:652:GLN:HE22	1.35	0.75
1:I:353:VAL:H	1:I:652:GLN:HE22	1.35	0.75
1:W:353:VAL:H	1:W:652:GLN:HE22	1.35	0.75
1:i:353:VAL:H	1:i:652:GLN:HE22	1.35	0.75
1:s:353:VAL:H	1:s:652:GLN:HE22	1.35	0.75
1:L:353:VAL:H	1:L:652:GLN:HE22	1.35	0.75
1:l:353:VAL:H	1:l:652:GLN:HE22	1.35	0.75
1:u:353:VAL:H	1:u:652:GLN:HE22	1.35	0.75
1:6:353:VAL:H	1:6:652:GLN:HE22	1.35	0.75
1:G:353:VAL:H	1:G:652:GLN:HE22	1.35	0.75
1:O:353:VAL:H	1:O:652:GLN:HE22	1.35	0.75
1:R:353:VAL:H	1:R:652:GLN:HE22	1.35	0.75
1:c:353:VAL:H	1:c:652:GLN:HE22	1.35	0.75
1:q:353:VAL:H	1:q:652:GLN:HE22	1.35	0.75
1:t:353:VAL:H	1:t:652:GLN:HE22	1.35	0.75
1:e:353:VAL:H	1:e:652:GLN:HE22	1.35	0.75
1:g:353:VAL:H	1:g:652:GLN:HE22	1.35	0.75
1:C:353:VAL:H	1:C:652:GLN:HE22	1.35	0.75
1:p:353:VAL:H	1:p:652:GLN:HE22	1.35	0.75
1:V:353:VAL:H	1:V:652:GLN:HE22	1.35	0.74
1:o:353:VAL:H	1:o:652:GLN:HE22	1.35	0.74
1:P:353:VAL:H	1:P:652:GLN:HE22	1.35	0.74
1:X:353:VAL:H	1:X:652:GLN:HE22	1.35	0.74
1:S:353:VAL:H	1:S:652:GLN:HE22	1.35	0.74
1:j:353:VAL:H	1:j:652:GLN:HE22	1.35	0.74
1:r:353:VAL:H	1:r:652:GLN:HE22	1.35	0.74
1:y:353:VAL:H	1:y:652:GLN:HE22	1.35	0.74
1:F:353:VAL:H	1:F:652:GLN:HE22	1.35	0.74
1:b:353:VAL:H	1:b:652:GLN:HE22	1.35	0.74
1:2:353:VAL:H	1:2:652:GLN:HE22	1.35	0.74
1:8:353:VAL:H	1:8:652:GLN:HE22	1.35	0.74
1:J:353:VAL:H	1:J:652:GLN:HE22	1.35	0.74
1:f:353:VAL:H	1:f:652:GLN:HE22	1.35	0.74
1:Z:353:VAL:H	1:Z:652:GLN:HE22	1.35	0.74
1:1:353:VAL:H	1:1:652:GLN:HE22	1.35	0.74
1:A:353:VAL:H	1:A:652:GLN:HE22	1.35	0.73
1:v:353:VAL:H	1:v:652:GLN:HE22	1.35	0.73
1:B:353:VAL:H	1:B:652:GLN:HE22	1.35	0.73
1:n:353:VAL:H	1:n:652:GLN:HE22	1.35	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:d:353:VAL:H	1:d:652:GLN:HE22	1.35	0.73
1:a:353:VAL:H	1:a:652:GLN:HE22	1.35	0.73
1:3:353:VAL:H	1:3:652:GLN:HE22	1.35	0.73
1:Y:353:VAL:H	1:Y:652:GLN:HE22	1.35	0.73
1:7:353:VAL:H	1:7:652:GLN:HE22	1.35	0.73
1:Q:353:VAL:H	1:Q:652:GLN:HE22	1.35	0.72
1:h:353:VAL:H	1:h:652:GLN:HE22	1.35	0.72
1:x:353:VAL:H	1:x:652:GLN:HE22	1.35	0.72
1:E:353:VAL:H	1:E:652:GLN:HE22	1.35	0.72
1:M:353:VAL:H	1:M:652:GLN:HE22	1.35	0.72
1:m:353:VAL:H	1:m:652:GLN:HE22	1.35	0.72
1:w:353:VAL:H	1:w:652:GLN:HE22	1.35	0.72
1:T:353:VAL:H	1:T:652:GLN:HE22	1.35	0.72
1:H:353:VAL:H	1:H:652:GLN:HE22	1.35	0.71
1:5:353:VAL:H	1:5:652:GLN:HE22	1.35	0.71
1:K:353:VAL:H	1:K:652:GLN:HE22	1.35	0.71
1:4:353:VAL:H	1:4:652:GLN:HE22	1.35	0.71
1:J:591:GLN:OE1	1:L:489:GLN:NE2	2.26	0.69
1:H:591:GLN:OE1	1:W:489:GLN:NE2	2.26	0.69
1:z:591:GLN:OE1	1:1:489:GLN:NE2	2.25	0.69
1:M:489:GLN:NE2	1:b:591:GLN:OE1	2.26	0.69
1:f:591:GLN:OE1	1:h:489:GLN:NE2	2.26	0.69
1:g:489:GLN:NE2	1:h:591:GLN:OE1	2.26	0.69
1:5:591:GLN:OE1	1:6:489:GLN:NE2	2.26	0.69
1:A:591:GLN:OE1	1:G:489:GLN:NE2	2.25	0.69
1:C:489:GLN:NE2	1:M:591:GLN:OE1	2.26	0.69
1:F:489:GLN:NE2	1:Q:591:GLN:OE1	2.26	0.69
1:K:489:GLN:NE2	1:8:591:GLN:OE1	2.26	0.69
1:T:591:GLN:OE1	1:d:489:GLN:NE2	2.26	0.69
1:Z:591:GLN:OE1	1:4:489:GLN:NE2	2.26	0.69
1:m:591:GLN:OE1	1:n:489:GLN:NE2	2.26	0.69
1:u:591:GLN:OE1	1:v:489:GLN:NE2	2.26	0.69
1:z:489:GLN:NE2	1:2:591:GLN:OE1	2.26	0.69
1:B:489:GLN:NE2	1:L:591:GLN:OE1	2.26	0.69
1:K:591:GLN:OE1	1:a:489:GLN:NE2	2.26	0.69
1:R:591:GLN:OE1	1:S:489:GLN:NE2	2.26	0.69
1:V:591:GLN:OE1	1:e:489:GLN:NE2	2.26	0.69
1:W:591:GLN:OE1	1:Y:489:GLN:NE2	2.26	0.69
1:q:591:GLN:OE1	1:r:489:GLN:NE2	2.26	0.69
1:t:591:GLN:OE1	1:u:489:GLN:NE2	2.26	0.69
1:x:591:GLN:OE1	1:y:489:GLN:NE2	2.26	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:3:489:GLN:NE2	1:4:591:GLN:OE1	2.26	0.69
1:6:591:GLN:OE1	1:7:489:GLN:NE2	2.26	0.69
1:A:489:GLN:NE2	1:I:591:GLN:OE1	2.26	0.69
1:G:591:GLN:OE1	1:I:489:GLN:NE2	2.26	0.69
1:X:489:GLN:NE2	1:e:591:GLN:OE1	2.26	0.69
1:c:591:GLN:OE1	1:o:489:GLN:NE2	2.26	0.69
1:E:591:GLN:OE1	1:Q:489:GLN:NE2	2.26	0.69
1:T:489:GLN:NE2	1:l:591:GLN:OE1	2.26	0.69
1:c:489:GLN:NE2	1:p:591:GLN:OE1	2.26	0.69
1:O:591:GLN:OE1	1:m:489:GLN:NE2	2.26	0.68
1:t:489:GLN:NE2	1:v:591:GLN:OE1	2.26	0.68
1:w:591:GLN:OE1	1:x:489:GLN:NE2	2.26	0.68
1:d:591:GLN:OE1	1:l:489:GLN:NE2	2.26	0.68
1:D:489:GLN:NE2	1:P:591:GLN:OE1	2.26	0.68
1:O:489:GLN:NE2	1:n:591:GLN:OE1	2.26	0.68
1:D:591:GLN:OE1	1:N:489:GLN:NE2	2.26	0.68
1:S:591:GLN:OE1	1:U:489:GLN:NE2	2.26	0.68
1:f:489:GLN:NE2	1:g:591:GLN:OE1	2.26	0.68
1:j:591:GLN:OE1	1:k:489:GLN:NE2	2.26	0.68
1:E:489:GLN:NE2	1:F:591:GLN:OE1	2.26	0.68
1:i:489:GLN:NE2	1:k:591:GLN:OE1	2.26	0.68
1:i:591:GLN:OE1	1:j:489:GLN:NE2	2.26	0.68
1:r:591:GLN:OE1	1:s:489:GLN:NE2	2.26	0.68
1:1:591:GLN:OE1	1:2:489:GLN:NE2	2.26	0.68
1:5:489:GLN:NE2	1:7:591:GLN:OE1	2.26	0.68
1:B:591:GLN:OE1	1:J:489:GLN:NE2	2.26	0.68
1:C:591:GLN:OE1	1:b:489:GLN:NE2	2.26	0.68
1:H:489:GLN:NE2	1:Y:591:GLN:OE1	2.26	0.68
1:R:489:GLN:NE2	1:U:591:GLN:OE1	2.26	0.68
1:w:489:GLN:NE2	1:y:591:GLN:OE1	2.26	0.68
1:N:591:GLN:OE1	1:P:489:GLN:NE2	2.26	0.68
1:V:489:GLN:NE2	1:X:591:GLN:OE1	2.26	0.68
1:a:591:GLN:OE1	1:8:489:GLN:NE2	2.26	0.68
1:q:489:GLN:NE2	1:s:591:GLN:OE1	2.26	0.68
1:o:591:GLN:OE1	1:p:489:GLN:NE2	2.26	0.68
1:Z:489:GLN:NE2	1:3:591:GLN:OE1	2.26	0.68
1:M:576:ASN:HD21	1:M:613:TRP:HB2	1.61	0.66
1:O:576:ASN:HD21	1:O:613:TRP:HB2	1.61	0.66
1:Z:576:ASN:HD21	1:Z:613:TRP:HB2	1.61	0.66
1:l:576:ASN:HD21	1:l:613:TRP:HB2	1.61	0.66
1:8:576:ASN:HD21	1:8:613:TRP:HB2	1.61	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:h:576:ASN:HD21	1:h:613:TRP:HB2	1.61	0.66
1:o:576:ASN:HD21	1:o:613:TRP:HB2	1.61	0.66
1:s:576:ASN:HD21	1:s:613:TRP:HB2	1.61	0.66
1:U:576:ASN:HD21	1:U:613:TRP:HB2	1.61	0.65
1:X:576:ASN:HD21	1:X:613:TRP:HB2	1.61	0.65
1:K:576:ASN:HD21	1:K:613:TRP:HB2	1.61	0.65
1:v:576:ASN:HD21	1:v:613:TRP:HB2	1.61	0.65
1:6:576:ASN:HD21	1:6:613:TRP:HB2	1.61	0.65
1:W:576:ASN:HD21	1:W:613:TRP:HB2	1.61	0.65
1:A:576:ASN:HD21	1:A:613:TRP:HB2	1.61	0.65
1:c:576:ASN:HD21	1:c:613:TRP:HB2	1.61	0.65
1:e:576:ASN:HD21	1:e:613:TRP:HB2	1.61	0.65
1:4:576:ASN:HD21	1:4:613:TRP:HB2	1.61	0.65
1:R:576:ASN:HD21	1:R:613:TRP:HB2	1.61	0.65
1:T:576:ASN:HD21	1:T:613:TRP:HB2	1.61	0.65
1:n:576:ASN:HD21	1:n:613:TRP:HB2	1.61	0.65
1:t:576:ASN:HD21	1:t:613:TRP:HB2	1.61	0.65
1:F:576:ASN:HD21	1:F:613:TRP:HB2	1.61	0.65
1:V:576:ASN:HD21	1:V:613:TRP:HB2	1.61	0.65
1:d:576:ASN:HD21	1:d:613:TRP:HB2	1.61	0.65
1:k:576:ASN:HD21	1:k:613:TRP:HB2	1.61	0.65
1:m:576:ASN:HD21	1:m:613:TRP:HB2	1.61	0.65
1:q:576:ASN:HD21	1:q:613:TRP:HB2	1.61	0.65
1:w:576:ASN:HD21	1:w:613:TRP:HB2	1.61	0.65
1:x:576:ASN:HD21	1:x:613:TRP:HB2	1.61	0.65
1:y:576:ASN:HD21	1:y:613:TRP:HB2	1.61	0.65
1:B:576:ASN:HD21	1:B:613:TRP:HB2	1.61	0.65
1:D:576:ASN:HD21	1:D:613:TRP:HB2	1.61	0.65
1:G:576:ASN:HD21	1:G:613:TRP:HB2	1.61	0.65
1:Q:576:ASN:HD21	1:Q:613:TRP:HB2	1.61	0.65
1:S:576:ASN:HD21	1:S:613:TRP:HB2	1.61	0.65
1:b:576:ASN:HD21	1:b:613:TRP:HB2	1.61	0.65
1:g:576:ASN:HD21	1:g:613:TRP:HB2	1.61	0.65
1:r:576:ASN:HD21	1:r:613:TRP:HB2	1.61	0.65
1:C:576:ASN:HD21	1:C:613:TRP:HB2	1.61	0.65
1:E:576:ASN:HD21	1:E:613:TRP:HB2	1.61	0.65
1:L:576:ASN:HD21	1:L:613:TRP:HB2	1.61	0.65
1:p:576:ASN:HD21	1:p:613:TRP:HB2	1.61	0.65
1:z:576:ASN:HD21	1:z:613:TRP:HB2	1.61	0.65
1:f:576:ASN:HD21	1:f:613:TRP:HB2	1.61	0.65
1:H:576:ASN:HD21	1:H:613:TRP:HB2	1.61	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1:576:ASN:HD21	1:1:613:TRP:HB2	1.61	0.64
1:5:576:ASN:HD21	1:5:613:TRP:HB2	1.61	0.64
1:I:576:ASN:HD21	1:I:613:TRP:HB2	1.61	0.64
1:J:576:ASN:HD21	1:J:613:TRP:HB2	1.61	0.64
1:P:576:ASN:HD21	1:P:613:TRP:HB2	1.61	0.64
1:u:576:ASN:HD21	1:u:613:TRP:HB2	1.61	0.64
1:j:576:ASN:HD21	1:j:613:TRP:HB2	1.61	0.64
1:2:576:ASN:HD21	1:2:613:TRP:HB2	1.61	0.64
1:Y:576:ASN:HD21	1:Y:613:TRP:HB2	1.61	0.64
1:7:576:ASN:HD21	1:7:613:TRP:HB2	1.61	0.64
1:H:283:ASP:O	1:H:361:SER:HA	1.98	0.64
1:5:283:ASP:O	1:5:361:SER:HA	1.98	0.64
1:Q:283:ASP:O	1:Q:361:SER:HA	1.99	0.63
1:x:283:ASP:O	1:x:361:SER:HA	1.99	0.63
1:N:283:ASP:O	1:N:361:SER:HA	1.98	0.63
1:N:576:ASN:HD21	1:N:613:TRP:HB2	1.61	0.63
1:P:283:ASP:O	1:P:361:SER:HA	1.98	0.63
1:e:283:ASP:O	1:e:361:SER:HA	1.98	0.63
1:i:283:ASP:O	1:i:361:SER:HA	1.98	0.63
1:i:576:ASN:HD21	1:i:613:TRP:HB2	1.61	0.63
1:S:283:ASP:O	1:S:361:SER:HA	1.98	0.63
1:U:283:ASP:O	1:U:361:SER:HA	1.98	0.63
1:Z:283:ASP:O	1:Z:361:SER:HA	1.98	0.63
1:c:283:ASP:O	1:c:361:SER:HA	1.98	0.63
1:3:576:ASN:HD21	1:3:613:TRP:HB2	1.61	0.63
1:8:283:ASP:O	1:8:361:SER:HA	1.98	0.63
1:L:283:ASP:O	1:L:361:SER:HA	1.98	0.63
1:j:283:ASP:O	1:j:361:SER:HA	1.98	0.63
1:r:283:ASP:O	1:r:361:SER:HA	1.98	0.63
1:s:283:ASP:O	1:s:361:SER:HA	1.98	0.63
1:z:283:ASP:O	1:z:361:SER:HA	1.99	0.63
1:a:576:ASN:HD21	1:a:613:TRP:HB2	1.61	0.63
1:g:283:ASP:O	1:g:361:SER:HA	1.99	0.63
1:l:283:ASP:O	1:l:361:SER:HA	1.98	0.63
1:C:283:ASP:O	1:C:361:SER:HA	1.99	0.63
1:M:283:ASP:O	1:M:361:SER:HA	1.98	0.63
1:O:283:ASP:O	1:O:361:SER:HA	1.98	0.63
1:V:283:ASP:O	1:V:361:SER:HA	1.99	0.63
1:b:283:ASP:O	1:b:361:SER:HA	1.98	0.63
1:h:283:ASP:O	1:h:361:SER:HA	1.98	0.63
1:1:283:ASP:O	1:1:361:SER:HA	1.98	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:7:283:ASP:O	1:7:361:SER:HA	1.98	0.63
1:J:283:ASP:O	1:J:361:SER:HA	1.98	0.63
1:W:283:ASP:O	1:W:361:SER:HA	1.98	0.63
1:Y:283:ASP:O	1:Y:361:SER:HA	1.98	0.63
1:a:283:ASP:O	1:a:361:SER:HA	1.98	0.63
1:p:286:ARG:HD3	1:p:621:GLN:O	1.99	0.63
1:q:283:ASP:O	1:q:361:SER:HA	1.98	0.63
1:3:283:ASP:O	1:3:361:SER:HA	1.98	0.63
1:4:283:ASP:O	1:4:361:SER:HA	1.98	0.63
1:I:283:ASP:O	1:I:361:SER:HA	1.99	0.63
1:K:283:ASP:O	1:K:361:SER:HA	1.99	0.63
1:R:283:ASP:O	1:R:361:SER:HA	1.98	0.63
1:V:286:ARG:HD3	1:V:621:GLN:O	1.99	0.63
1:X:283:ASP:O	1:X:361:SER:HA	1.98	0.63
1:X:286:ARG:HD3	1:X:621:GLN:O	1.99	0.63
1:Y:286:ARG:HD3	1:Y:621:GLN:O	1.99	0.63
1:Z:286:ARG:HD3	1:Z:621:GLN:O	1.99	0.63
1:c:286:ARG:HD3	1:c:621:GLN:O	1.99	0.63
1:e:286:ARG:HD3	1:e:621:GLN:O	1.99	0.63
1:f:283:ASP:O	1:f:361:SER:HA	1.98	0.63
1:p:283:ASP:O	1:p:361:SER:HA	1.99	0.63
1:u:283:ASP:O	1:u:361:SER:HA	1.99	0.63
1:v:286:ARG:HD3	1:v:621:GLN:O	1.99	0.63
1:2:283:ASP:O	1:2:361:SER:HA	1.98	0.63
1:7:286:ARG:HD3	1:7:621:GLN:O	1.99	0.63
1:8:286:ARG:HD3	1:8:621:GLN:O	1.99	0.63
1:A:286:ARG:HD3	1:A:621:GLN:O	1.99	0.62
1:B:283:ASP:O	1:B:361:SER:HA	1.98	0.62
1:E:283:ASP:O	1:E:361:SER:HA	1.98	0.62
1:o:286:ARG:HD3	1:o:621:GLN:O	1.99	0.62
1:6:283:ASP:O	1:6:361:SER:HA	1.98	0.62
1:T:283:ASP:O	1:T:361:SER:HA	1.99	0.62
1:o:283:ASP:O	1:o:361:SER:HA	1.98	0.62
1:t:283:ASP:O	1:t:361:SER:HA	1.98	0.62
1:D:286:ARG:HD3	1:D:621:GLN:O	1.99	0.62
1:G:283:ASP:O	1:G:361:SER:HA	1.98	0.62
1:u:617:ASP:OD1	1:u:735:SER:OG	2.17	0.62
1:w:283:ASP:O	1:w:361:SER:HA	1.98	0.62
1:I:617:ASP:OD1	1:I:735:SER:OG	2.17	0.62
1:P:286:ARG:HD3	1:P:621:GLN:O	1.99	0.62
1:T:286:ARG:HD3	1:T:621:GLN:O	1.99	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:j:286:ARG:HD3	1:j:621:GLN:O	1.99	0.62
1:m:283:ASP:O	1:m:361:SER:HA	1.99	0.62
1:v:283:ASP:O	1:v:361:SER:HA	1.98	0.62
1:A:283:ASP:O	1:A:361:SER:HA	1.98	0.62
1:F:283:ASP:O	1:F:361:SER:HA	1.98	0.62
1:N:286:ARG:HD3	1:N:621:GLN:O	1.99	0.62
1:R:617:ASP:OD1	1:R:735:SER:OG	2.17	0.62
1:a:286:ARG:HD3	1:a:621:GLN:O	1.99	0.62
1:i:286:ARG:HD3	1:i:621:GLN:O	1.99	0.62
1:k:286:ARG:HD3	1:k:621:GLN:O	1.99	0.62
1:m:286:ARG:HD3	1:m:621:GLN:O	1.99	0.62
1:q:617:ASP:OD1	1:q:735:SER:OG	2.17	0.62
1:y:283:ASP:O	1:y:361:SER:HA	1.98	0.62
1:C:286:ARG:HD3	1:C:621:GLN:O	1.99	0.62
1:O:286:ARG:HD3	1:O:621:GLN:O	1.99	0.62
1:S:617:ASP:OD1	1:S:735:SER:OG	2.17	0.62
1:b:617:ASP:OD1	1:b:735:SER:OG	2.17	0.62
1:k:283:ASP:O	1:k:361:SER:HA	1.98	0.62
1:3:286:ARG:HD3	1:3:621:GLN:O	1.99	0.62
1:H:286:ARG:HD3	1:H:621:GLN:O	1.99	0.62
1:J:286:ARG:HD3	1:J:621:GLN:O	1.99	0.62
1:d:286:ARG:HD3	1:d:621:GLN:O	1.99	0.62
1:g:286:ARG:HD3	1:g:621:GLN:O	1.99	0.62
1:h:617:ASP:OD1	1:h:735:SER:OG	2.17	0.62
1:l:286:ARG:HD3	1:l:621:GLN:O	1.99	0.62
1:n:286:ARG:HD3	1:n:621:GLN:O	1.99	0.62
1:r:286:ARG:HD3	1:r:621:GLN:O	1.99	0.62
1:r:617:ASP:OD1	1:r:735:SER:OG	2.17	0.62
1:5:286:ARG:HD3	1:5:621:GLN:O	1.99	0.62
1:5:617:ASP:OD1	1:5:735:SER:OG	2.17	0.62
1:D:283:ASP:O	1:D:361:SER:HA	1.98	0.62
1:H:617:ASP:OD1	1:H:735:SER:OG	2.17	0.62
1:S:286:ARG:HD3	1:S:621:GLN:O	1.99	0.62
1:f:617:ASP:OD1	1:f:735:SER:OG	2.17	0.62
1:M:617:ASP:OD1	1:M:735:SER:OG	2.17	0.62
1:u:286:ARG:HD3	1:u:621:GLN:O	1.99	0.62
1:2:286:ARG:HD3	1:2:621:GLN:O	1.99	0.62
1:E:286:ARG:HD3	1:E:621:GLN:O	1.99	0.62
1:v:617:ASP:OD1	1:v:735:SER:OG	2.17	0.62
1:8:617:ASP:OD1	1:8:735:SER:OG	2.17	0.62
1:I:286:ARG:HD3	1:I:621:GLN:O	1.99	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:283:ASP:HA	1:M:354:MET:HE3	1.82	0.61
1:W:286:ARG:HD3	1:W:621:GLN:O	1.99	0.61
1:Z:617:ASP:OD1	1:Z:735:SER:OG	2.17	0.61
1:h:283:ASP:HA	1:h:354:MET:HE3	1.82	0.61
1:j:617:ASP:OD1	1:j:735:SER:OG	2.17	0.61
1:n:283:ASP:O	1:n:361:SER:HA	1.98	0.61
1:w:286:ARG:HD3	1:w:621:GLN:O	1.99	0.61
1:A:617:ASP:OD1	1:A:735:SER:OG	2.17	0.61
1:F:283:ASP:HA	1:F:354:MET:HE3	1.82	0.61
1:J:617:ASP:OD1	1:J:735:SER:OG	2.17	0.61
1:M:286:ARG:HD3	1:M:621:GLN:O	1.99	0.61
1:R:286:ARG:HD3	1:R:621:GLN:O	1.99	0.61
1:X:283:ASP:HA	1:X:354:MET:HE3	1.82	0.61
1:d:283:ASP:O	1:d:361:SER:HA	1.98	0.61
1:o:283:ASP:HA	1:o:354:MET:HE3	1.82	0.61
1:q:286:ARG:HD3	1:q:621:GLN:O	1.99	0.61
1:y:283:ASP:HA	1:y:354:MET:HE3	1.82	0.61
1:6:286:ARG:HD3	1:6:621:GLN:O	1.99	0.61
1:H:283:ASP:HA	1:H:354:MET:HE3	1.83	0.61
1:P:617:ASP:OD1	1:P:735:SER:OG	2.17	0.61
1:R:283:ASP:HA	1:R:354:MET:HE3	1.83	0.61
1:T:283:ASP:HA	1:T:354:MET:HE3	1.83	0.61
1:W:617:ASP:OD1	1:W:735:SER:OG	2.17	0.61
1:c:617:ASP:OD1	1:c:735:SER:OG	2.17	0.61
1:j:283:ASP:HA	1:j:354:MET:HE3	1.82	0.61
1:q:283:ASP:HA	1:q:354:MET:HE3	1.83	0.61
1:2:617:ASP:OD1	1:2:735:SER:OG	2.17	0.61
1:5:283:ASP:HA	1:5:354:MET:HE3	1.83	0.61
1:W:299:LEU:HD21	1:W:306:LEU:HD22	1.83	0.61
1:a:283:ASP:HA	1:a:354:MET:HE3	1.82	0.61
1:e:617:ASP:OD1	1:e:735:SER:OG	2.17	0.61
1:h:286:ARG:HD3	1:h:621:GLN:O	1.99	0.61
1:m:283:ASP:HA	1:m:354:MET:HE3	1.83	0.61
1:n:283:ASP:HA	1:n:354:MET:HE3	1.82	0.61
1:y:286:ARG:HD3	1:y:621:GLN:O	1.99	0.61
1:z:286:ARG:HD3	1:z:621:GLN:O	1.99	0.61
1:1:283:ASP:HA	1:1:354:MET:HE3	1.82	0.61
1:6:299:LEU:HD21	1:6:306:LEU:HD22	1.83	0.61
1:G:286:ARG:HD3	1:G:621:GLN:O	1.99	0.61
1:L:286:ARG:HD3	1:L:621:GLN:O	1.99	0.61
1:L:617:ASP:OD1	1:L:735:SER:OG	2.17	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:P:283:ASP:HA	1:P:354:MET:HE3	1.83	0.61
1:U:283:ASP:HA	1:U:354:MET:HE3	1.82	0.61
1:U:299:LEU:HD21	1:U:306:LEU:HD22	1.83	0.61
1:d:283:ASP:HA	1:d:354:MET:HE3	1.82	0.61
1:3:283:ASP:HA	1:3:354:MET:HE3	1.82	0.61
1:6:617:ASP:OD1	1:6:735:SER:OG	2.17	0.61
1:F:286:ARG:HD3	1:F:621:GLN:O	1.99	0.61
1:I:283:ASP:HA	1:I:354:MET:HE3	1.83	0.61
1:b:286:ARG:HD3	1:b:621:GLN:O	1.99	0.61
1:c:299:LEU:HD21	1:c:306:LEU:HD22	1.83	0.61
1:e:299:LEU:HD21	1:e:306:LEU:HD22	1.83	0.61
1:s:283:ASP:HA	1:s:354:MET:HE3	1.82	0.61
1:s:299:LEU:HD21	1:s:306:LEU:HD22	1.83	0.61
1:t:286:ARG:HD3	1:t:621:GLN:O	1.99	0.61
1:v:299:LEU:HD21	1:v:306:LEU:HD22	1.83	0.61
1:A:299:LEU:HD21	1:A:306:LEU:HD22	1.83	0.61
1:B:283:ASP:HA	1:B:354:MET:HE3	1.83	0.61
1:F:299:LEU:HD21	1:F:306:LEU:HD22	1.83	0.61
1:O:617:ASP:OD1	1:O:735:SER:OG	2.17	0.61
1:Q:286:ARG:HD3	1:Q:621:GLN:O	1.99	0.61
1:X:299:LEU:HD21	1:X:306:LEU:HD22	1.83	0.61
1:f:286:ARG:HD3	1:f:621:GLN:O	1.99	0.61
1:o:299:LEU:HD21	1:o:306:LEU:HD22	1.83	0.61
1:o:617:ASP:OD1	1:o:735:SER:OG	2.17	0.61
1:u:283:ASP:HA	1:u:354:MET:HE3	1.83	0.61
1:x:283:ASP:HA	1:x:354:MET:HE3	1.83	0.61
1:y:299:LEU:HD21	1:y:306:LEU:HD22	1.83	0.61
1:G:283:ASP:HA	1:G:354:MET:HE3	1.82	0.61
1:L:299:LEU:HD21	1:L:306:LEU:HD22	1.83	0.61
1:Q:299:LEU:HD21	1:Q:306:LEU:HD22	1.83	0.61
1:U:286:ARG:HD3	1:U:621:GLN:O	1.99	0.61
1:h:299:LEU:HD21	1:h:306:LEU:HD22	1.83	0.61
1:s:286:ARG:HD3	1:s:621:GLN:O	1.99	0.61
1:t:283:ASP:HA	1:t:354:MET:HE3	1.82	0.61
1:4:617:ASP:OD1	1:4:735:SER:OG	2.17	0.61
1:K:286:ARG:HD3	1:K:621:GLN:O	1.99	0.61
1:M:299:LEU:HD21	1:M:306:LEU:HD22	1.83	0.61
1:Q:283:ASP:HA	1:Q:354:MET:HE3	1.83	0.61
1:X:617:ASP:OD1	1:X:735:SER:OG	2.17	0.61
1:Z:283:ASP:HA	1:Z:354:MET:HE3	1.82	0.61
1:l:617:ASP:OD1	1:l:735:SER:OG	2.17	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:x:286:ARG:HD3	1:x:621:GLN:O	1.99	0.61
1:x:299:LEU:HD21	1:x:306:LEU:HD22	1.83	0.61
1:z:299:LEU:HD21	1:z:306:LEU:HD22	1.83	0.61
1:7:283:ASP:HA	1:7:354:MET:HE3	1.82	0.61
1:8:283:ASP:HA	1:8:354:MET:HE3	1.82	0.61
1:C:283:ASP:HA	1:C:354:MET:HE3	1.83	0.61
1:D:299:LEU:HD21	1:D:306:LEU:HD22	1.83	0.61
1:G:299:LEU:HD21	1:G:306:LEU:HD22	1.83	0.61
1:K:617:ASP:OD1	1:K:735:SER:OG	2.17	0.61
1:V:299:LEU:HD21	1:V:306:LEU:HD22	1.83	0.61
1:Y:283:ASP:HA	1:Y:354:MET:HE3	1.82	0.61
1:g:283:ASP:HA	1:g:354:MET:HE3	1.83	0.61
1:i:283:ASP:HA	1:i:354:MET:HE3	1.82	0.61
1:k:299:LEU:HD21	1:k:306:LEU:HD22	1.83	0.61
1:p:299:LEU:HD21	1:p:306:LEU:HD22	1.83	0.61
1:t:299:LEU:HD21	1:t:306:LEU:HD22	1.83	0.61
1:x:617:ASP:OD1	1:x:735:SER:OG	2.17	0.61
1:4:286:ARG:HD3	1:4:621:GLN:O	1.99	0.61
1:C:299:LEU:HD21	1:C:306:LEU:HD22	1.83	0.60
1:N:283:ASP:HA	1:N:354:MET:HE3	1.82	0.60
1:i:299:LEU:HD21	1:i:306:LEU:HD22	1.83	0.60
1:m:299:LEU:HD21	1:m:306:LEU:HD22	1.83	0.60
1:q:299:LEU:HD21	1:q:306:LEU:HD22	1.83	0.60
1:Q:617:ASP:OD1	1:Q:735:SER:OG	2.17	0.60
1:R:299:LEU:HD21	1:R:306:LEU:HD22	1.83	0.60
1:T:299:LEU:HD21	1:T:306:LEU:HD22	1.83	0.60
1:V:283:ASP:HA	1:V:354:MET:HE3	1.83	0.60
1:n:299:LEU:HD21	1:n:306:LEU:HD22	1.83	0.60
1:p:283:ASP:HA	1:p:354:MET:HE3	1.83	0.60
1:J:299:LEU:HD21	1:J:306:LEU:HD22	1.83	0.60
1:N:299:LEU:HD21	1:N:306:LEU:HD22	1.83	0.60
1:d:299:LEU:HD21	1:d:306:LEU:HD22	1.83	0.60
1:g:299:LEU:HD21	1:g:306:LEU:HD22	1.83	0.60
1:H:299:LEU:HD21	1:H:306:LEU:HD22	1.83	0.60
1:O:299:LEU:HD21	1:O:306:LEU:HD22	1.83	0.60
1:P:299:LEU:HD21	1:P:306:LEU:HD22	1.83	0.60
1:W:283:ASP:HA	1:W:354:MET:HE3	1.83	0.60
1:j:299:LEU:HD21	1:j:306:LEU:HD22	1.83	0.60
1:2:299:LEU:HD21	1:2:306:LEU:HD22	1.83	0.60
1:5:299:LEU:HD21	1:5:306:LEU:HD22	1.83	0.60
1:l:299:LEU:HD21	1:l:306:LEU:HD22	1.83	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:r:299:LEU:HD21	1:r:306:LEU:HD22	1.83	0.60
1:6:283:ASP:HA	1:6:354:MET:HE3	1.83	0.60
1:D:617:ASP:OD1	1:D:735:SER:OG	2.17	0.60
1:Z:299:LEU:HD21	1:Z:306:LEU:HD22	1.83	0.60
1:g:617:ASP:OD1	1:g:735:SER:OG	2.17	0.60
1:1:299:LEU:HD21	1:1:306:LEU:HD22	1.83	0.60
1:3:299:LEU:HD21	1:3:306:LEU:HD22	1.83	0.60
1:A:283:ASP:HA	1:A:354:MET:HE3	1.82	0.60
1:B:299:LEU:HD21	1:B:306:LEU:HD22	1.83	0.60
1:S:299:LEU:HD21	1:S:306:LEU:HD22	1.83	0.60
1:a:299:LEU:HD21	1:a:306:LEU:HD22	1.83	0.60
1:a:304:TRP:CZ2	1:a:698:SER:HB3	2.37	0.60
1:e:283:ASP:HA	1:e:354:MET:HE3	1.82	0.60
1:w:617:ASP:OD1	1:w:735:SER:OG	2.17	0.60
1:1:286:ARG:HD3	1:1:621:GLN:O	1.99	0.60
1:3:304:TRP:CZ2	1:3:698:SER:HB3	2.37	0.60
1:4:299:LEU:HD21	1:4:306:LEU:HD22	1.83	0.60
1:8:299:LEU:HD21	1:8:306:LEU:HD22	1.83	0.60
1:B:533:THR:HG22	1:B:569:GLU:H	1.67	0.60
1:C:617:ASP:OD1	1:C:735:SER:OG	2.17	0.60
1:E:299:LEU:HD21	1:E:306:LEU:HD22	1.83	0.60
1:K:283:ASP:HA	1:K:354:MET:HE3	1.83	0.60
1:K:299:LEU:HD21	1:K:306:LEU:HD22	1.83	0.60
1:K:389:THR:H	1:K:392:ASN:HD22	1.50	0.60
1:L:533:THR:HG22	1:L:569:GLU:H	1.67	0.60
1:O:283:ASP:HA	1:O:354:MET:HE3	1.82	0.60
1:O:304:TRP:CZ2	1:O:698:SER:HB3	2.37	0.60
1:P:304:TRP:CZ2	1:P:698:SER:HB3	2.37	0.60
1:Q:304:TRP:CZ2	1:Q:698:SER:HB3	2.37	0.60
1:T:533:THR:HG22	1:T:569:GLU:H	1.67	0.60
1:U:533:THR:HG22	1:U:569:GLU:H	1.67	0.60
1:Y:533:THR:HG22	1:Y:569:GLU:H	1.67	0.60
1:j:304:TRP:CZ2	1:j:698:SER:HB3	2.37	0.60
1:j:533:THR:HG22	1:j:569:GLU:H	1.67	0.60
1:k:617:ASP:OD1	1:k:735:SER:OG	2.17	0.60
1:l:283:ASP:HA	1:l:354:MET:HE3	1.82	0.60
1:l:304:TRP:CZ2	1:l:698:SER:HB3	2.37	0.60
1:m:617:ASP:OD1	1:m:735:SER:OG	2.17	0.60
1:s:533:THR:HG22	1:s:569:GLU:H	1.67	0.60
1:u:299:LEU:HD21	1:u:306:LEU:HD22	1.83	0.60
1:v:283:ASP:HA	1:v:354:MET:HE3	1.82	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:x:304:TRP:CZ2	1:x:698:SER:HB3	2.37	0.60
1:z:304:TRP:CZ2	1:z:698:SER:HB3	2.37	0.60
1:z:533:THR:HG22	1:z:569:GLU:H	1.67	0.60
1:1:533:THR:HG22	1:1:569:GLU:H	1.67	0.60
1:4:389:THR:H	1:4:392:ASN:HD22	1.50	0.60
1:7:533:THR:HG22	1:7:569:GLU:H	1.67	0.60
1:B:286:ARG:HD3	1:B:621:GLN:O	1.99	0.60
1:E:617:ASP:OD1	1:E:735:SER:OG	2.17	0.60
1:F:389:THR:H	1:F:392:ASN:HD22	1.50	0.60
1:I:299:LEU:HD21	1:I:306:LEU:HD22	1.83	0.60
1:J:283:ASP:HA	1:J:354:MET:HE3	1.82	0.60
1:K:533:THR:HG22	1:K:569:GLU:H	1.67	0.60
1:L:283:ASP:HA	1:L:354:MET:HE3	1.82	0.60
1:L:304:TRP:CZ2	1:L:698:SER:HB3	2.37	0.60
1:M:304:TRP:CZ2	1:M:698:SER:HB3	2.37	0.60
1:M:389:THR:H	1:M:392:ASN:HD22	1.50	0.60
1:P:533:THR:HG22	1:P:569:GLU:H	1.67	0.60
1:Q:533:THR:HG22	1:Q:569:GLU:H	1.67	0.60
1:Y:299:LEU:HD21	1:Y:306:LEU:HD22	1.83	0.60
1:Z:304:TRP:CZ2	1:Z:698:SER:HB3	2.37	0.60
1:b:283:ASP:HA	1:b:354:MET:HE3	1.82	0.60
1:c:283:ASP:HA	1:c:354:MET:HE3	1.82	0.60
1:f:283:ASP:HA	1:f:354:MET:HE3	1.82	0.60
1:h:389:THR:H	1:h:392:ASN:HD22	1.50	0.60
1:k:283:ASP:HA	1:k:354:MET:HE3	1.82	0.60
1:m:533:THR:HG22	1:m:569:GLU:H	1.67	0.60
1:v:533:THR:HG22	1:v:569:GLU:H	1.67	0.60
1:x:533:THR:HG22	1:x:569:GLU:H	1.67	0.60
1:y:389:THR:H	1:y:392:ASN:HD22	1.50	0.60
1:z:283:ASP:HA	1:z:354:MET:HE3	1.83	0.60
1:4:283:ASP:HA	1:4:354:MET:HE3	1.83	0.60
1:4:533:THR:HG22	1:4:569:GLU:H	1.67	0.60
1:8:304:TRP:CZ2	1:8:698:SER:HB3	2.37	0.60
1:A:389:THR:H	1:A:392:ASN:HD22	1.50	0.60
1:A:533:THR:HG22	1:A:569:GLU:H	1.67	0.60
1:C:389:THR:H	1:C:392:ASN:HD22	1.50	0.60
1:D:283:ASP:HA	1:D:354:MET:HE3	1.83	0.60
1:D:304:TRP:CZ2	1:D:698:SER:HB3	2.37	0.60
1:R:389:THR:H	1:R:392:ASN:HD22	1.50	0.60
1:S:283:ASP:HA	1:S:354:MET:HE3	1.82	0.60
1:T:617:ASP:OD1	1:T:735:SER:OG	2.17	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:d:617:ASP:OD1	1:d:735:SER:OG	2.17	0.60
1:h:304:TRP:CZ2	1:h:698:SER:HB3	2.37	0.60
1:i:617:ASP:OD1	1:i:735:SER:OG	2.17	0.60
1:k:304:TRP:CZ2	1:k:698:SER:HB3	2.37	0.60
1:l:533:THR:HG22	1:l:569:GLU:H	1.67	0.60
1:o:533:THR:HG22	1:o:569:GLU:H	1.67	0.60
1:q:389:THR:H	1:q:392:ASN:HD22	1.50	0.60
1:u:304:TRP:CZ2	1:u:698:SER:HB3	2.37	0.60
1:w:299:LEU:HD21	1:w:306:LEU:HD22	1.83	0.60
1:2:283:ASP:HA	1:2:354:MET:HE3	1.82	0.60
1:E:304:TRP:CZ2	1:E:698:SER:HB3	2.37	0.59
1:I:304:TRP:CZ2	1:I:698:SER:HB3	2.37	0.59
1:O:533:THR:HG22	1:O:569:GLU:H	1.67	0.59
1:P:487:LYS:NZ	1:P:580:THR:O	2.36	0.59
1:Q:487:LYS:NZ	1:Q:580:THR:O	2.35	0.59
1:Y:304:TRP:CZ2	1:Y:698:SER:HB3	2.37	0.59
1:g:389:THR:H	1:g:392:ASN:HD22	1.50	0.59
1:j:487:LYS:NZ	1:j:580:THR:O	2.36	0.59
1:r:283:ASP:HA	1:r:354:MET:HE3	1.82	0.59
1:r:533:THR:HG22	1:r:569:GLU:H	1.67	0.59
1:t:304:TRP:CZ2	1:t:698:SER:HB3	2.37	0.59
1:t:617:ASP:OD1	1:t:735:SER:OG	2.17	0.59
1:w:304:TRP:CZ2	1:w:698:SER:HB3	2.37	0.59
1:7:299:LEU:HD21	1:7:306:LEU:HD22	1.83	0.59
1:E:487:LYS:NZ	1:E:580:THR:O	2.35	0.59
1:F:487:LYS:NZ	1:F:580:THR:O	2.35	0.59
1:G:304:TRP:CZ2	1:G:698:SER:HB3	2.37	0.59
1:H:533:THR:HG22	1:H:569:GLU:H	1.67	0.59
1:K:487:LYS:NZ	1:K:580:THR:O	2.35	0.59
1:N:617:ASP:OD1	1:N:735:SER:OG	2.17	0.59
1:S:304:TRP:CZ2	1:S:698:SER:HB3	2.37	0.59
1:S:533:THR:HG22	1:S:569:GLU:H	1.67	0.59
1:T:389:THR:H	1:T:392:ASN:HD22	1.50	0.59
1:W:304:TRP:CZ2	1:W:698:SER:HB3	2.37	0.59
1:W:487:LYS:NZ	1:W:580:THR:O	2.36	0.59
1:X:533:THR:HG22	1:X:569:GLU:H	1.67	0.59
1:i:389:THR:H	1:i:392:ASN:HD22	1.50	0.59
1:n:617:ASP:OD1	1:n:735:SER:OG	2.17	0.59
1:v:389:THR:H	1:v:392:ASN:HD22	1.50	0.59
1:x:487:LYS:NZ	1:x:580:THR:O	2.35	0.59
1:4:487:LYS:NZ	1:4:580:THR:O	2.35	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:5:533:THR:HG22	1:5:569:GLU:H	1.67	0.59
1:6:304:TRP:CZ2	1:6:698:SER:HB3	2.37	0.59
1:6:487:LYS:NZ	1:6:580:THR:O	2.36	0.59
1:7:304:TRP:CZ2	1:7:698:SER:HB3	2.37	0.59
1:B:487:LYS:NZ	1:B:580:THR:O	2.36	0.59
1:I:487:LYS:NZ	1:I:580:THR:O	2.35	0.59
1:T:304:TRP:CZ2	1:T:698:SER:HB3	2.37	0.59
1:T:487:LYS:NZ	1:T:580:THR:O	2.35	0.59
1:U:487:LYS:NZ	1:U:580:THR:O	2.35	0.59
1:f:487:LYS:NZ	1:f:580:THR:O	2.35	0.59
1:m:487:LYS:NZ	1:m:580:THR:O	2.35	0.59
1:r:304:TRP:CZ2	1:r:698:SER:HB3	2.37	0.59
1:u:487:LYS:NZ	1:u:580:THR:O	2.35	0.59
1:w:487:LYS:NZ	1:w:580:THR:O	2.35	0.59
1:y:304:TRP:CZ2	1:y:698:SER:HB3	2.37	0.59
1:y:487:LYS:NZ	1:y:580:THR:O	2.35	0.59
1:1:487:LYS:NZ	1:1:580:THR:O	2.35	0.59
1:3:389:THR:H	1:3:392:ASN:HD22	1.50	0.59
1:3:533:THR:HG22	1:3:569:GLU:H	1.67	0.59
1:C:304:TRP:CZ2	1:C:698:SER:HB3	2.37	0.59
1:D:487:LYS:NZ	1:D:580:THR:O	2.36	0.59
1:F:304:TRP:CZ2	1:F:698:SER:HB3	2.37	0.59
1:G:617:ASP:OD1	1:G:735:SER:OG	2.17	0.59
1:N:389:THR:H	1:N:392:ASN:HD22	1.50	0.59
1:R:304:TRP:CZ2	1:R:698:SER:HB3	2.37	0.59
1:V:533:THR:HG22	1:V:569:GLU:H	1.67	0.59
1:X:487:LYS:NZ	1:X:580:THR:O	2.36	0.59
1:Y:487:LYS:NZ	1:Y:580:THR:O	2.35	0.59
1:a:389:THR:H	1:a:392:ASN:HD22	1.50	0.59
1:a:533:THR:HG22	1:a:569:GLU:H	1.67	0.59
1:b:487:LYS:NZ	1:b:580:THR:O	2.35	0.59
1:b:533:THR:HG22	1:b:569:GLU:H	1.67	0.59
1:f:533:THR:HG22	1:f:569:GLU:H	1.67	0.59
1:k:487:LYS:NZ	1:k:580:THR:O	2.36	0.59
1:m:304:TRP:CZ2	1:m:698:SER:HB3	2.37	0.59
1:m:389:THR:H	1:m:392:ASN:HD22	1.50	0.59
1:n:304:TRP:CZ2	1:n:698:SER:HB3	2.37	0.59
1:o:487:LYS:NZ	1:o:580:THR:O	2.36	0.59
1:p:304:TRP:CZ2	1:p:698:SER:HB3	2.37	0.59
1:q:304:TRP:CZ2	1:q:698:SER:HB3	2.37	0.59
1:s:487:LYS:NZ	1:s:580:THR:O	2.35	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1:389:THR:H	1:1:392:ASN:HD22	1.50	0.59
1:5:304:TRP:CZ2	1:5:698:SER:HB3	2.37	0.59
1:H:304:TRP:CZ2	1:H:698:SER:HB3	2.37	0.59
1:V:304:TRP:CZ2	1:V:698:SER:HB3	2.37	0.59
1:V:389:THR:H	1:V:392:ASN:HD22	1.50	0.59
1:c:533:THR:HG22	1:c:569:GLU:H	1.67	0.59
1:d:304:TRP:CZ2	1:d:698:SER:HB3	2.37	0.59
1:g:304:TRP:CZ2	1:g:698:SER:HB3	2.37	0.59
1:n:487:LYS:NZ	1:n:580:THR:O	2.35	0.59
1:p:533:THR:HG22	1:p:569:GLU:H	1.67	0.59
1:u:533:THR:HG22	1:u:569:GLU:H	1.67	0.59
1:w:533:THR:HG22	1:w:569:GLU:H	1.67	0.59
1:z:487:LYS:NZ	1:z:580:THR:O	2.35	0.59
1:7:487:LYS:NZ	1:7:580:THR:O	2.36	0.59
1:8:533:THR:HG22	1:8:569:GLU:H	1.67	0.59
1:A:487:LYS:NZ	1:A:580:THR:O	2.35	0.59
1:B:389:THR:H	1:B:392:ASN:HD22	1.50	0.59
1:C:487:LYS:NZ	1:C:580:THR:O	2.35	0.59
1:F:533:THR:HG22	1:F:569:GLU:H	1.67	0.59
1:G:533:THR:HG22	1:G:569:GLU:H	1.67	0.59
1:I:533:THR:HG22	1:I:569:GLU:H	1.67	0.59
1:Z:487:LYS:NZ	1:Z:580:THR:O	2.36	0.59
1:Z:533:THR:HG22	1:Z:569:GLU:H	1.67	0.59
1:b:389:THR:H	1:b:392:ASN:HD22	1.50	0.59
1:d:487:LYS:NZ	1:d:580:THR:O	2.35	0.59
1:f:389:THR:H	1:f:392:ASN:HD22	1.50	0.59
1:n:389:THR:H	1:n:392:ASN:HD22	1.50	0.59
1:p:389:THR:H	1:p:392:ASN:HD22	1.50	0.59
1:w:283:ASP:HA	1:w:354:MET:HE3	1.82	0.59
1:2:304:TRP:CZ2	1:2:698:SER:HB3	2.37	0.59
1:2:533:THR:HG22	1:2:569:GLU:H	1.67	0.59
1:8:487:LYS:NZ	1:8:580:THR:O	2.36	0.59
1:A:304:TRP:CZ2	1:A:698:SER:HB3	2.37	0.59
1:E:533:THR:HG22	1:E:569:GLU:H	1.67	0.59
1:G:389:THR:H	1:G:392:ASN:HD22	1.50	0.59
1:G:487:LYS:NZ	1:G:580:THR:O	2.35	0.59
1:H:389:THR:H	1:H:392:ASN:HD22	1.50	0.59
1:J:304:TRP:CZ2	1:J:698:SER:HB3	2.37	0.59
1:L:487:LYS:NZ	1:L:580:THR:O	2.35	0.59
1:X:304:TRP:CZ2	1:X:698:SER:HB3	2.37	0.59
1:a:617:ASP:OD1	1:a:735:SER:OG	2.17	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:b:304:TRP:CZ2	1:b:698:SER:HB3	2.37	0.59
1:c:304:TRP:CZ2	1:c:698:SER:HB3	2.37	0.59
1:d:389:THR:H	1:d:392:ASN:HD22	1.50	0.59
1:e:304:TRP:CZ2	1:e:698:SER:HB3	2.37	0.59
1:e:533:THR:HG22	1:e:569:GLU:H	1.67	0.59
1:g:487:LYS:NZ	1:g:580:THR:O	2.35	0.59
1:i:487:LYS:NZ	1:i:580:THR:O	2.36	0.59
1:r:487:LYS:NZ	1:r:580:THR:O	2.35	0.59
1:t:533:THR:HG22	1:t:569:GLU:H	1.67	0.59
1:v:304:TRP:CZ2	1:v:698:SER:HB3	2.37	0.59
1:v:487:LYS:NZ	1:v:580:THR:O	2.35	0.59
1:y:533:THR:HG22	1:y:569:GLU:H	1.67	0.59
1:3:617:ASP:OD1	1:3:735:SER:OG	2.17	0.59
1:5:389:THR:H	1:5:392:ASN:HD22	1.50	0.59
1:H:487:LYS:NZ	1:H:580:THR:O	2.36	0.59
1:J:533:THR:HG22	1:J:569:GLU:H	1.67	0.59
1:N:487:LYS:NZ	1:N:580:THR:O	2.36	0.59
1:S:487:LYS:NZ	1:S:580:THR:O	2.35	0.59
1:b:299:LEU:HD21	1:b:306:LEU:HD22	1.83	0.59
1:f:299:LEU:HD21	1:f:306:LEU:HD22	1.83	0.59
1:f:304:TRP:CZ2	1:f:698:SER:HB3	2.37	0.59
1:t:487:LYS:NZ	1:t:580:THR:O	2.35	0.59
1:5:487:LYS:NZ	1:5:580:THR:O	2.36	0.59
1:E:283:ASP:HA	1:E:354:MET:HE3	1.82	0.59
1:J:487:LYS:NZ	1:J:580:THR:O	2.35	0.59
1:o:304:TRP:CZ2	1:o:698:SER:HB3	2.37	0.59
1:s:304:TRP:CZ2	1:s:698:SER:HB3	2.37	0.59
1:t:389:THR:H	1:t:392:ASN:HD22	1.50	0.59
1:7:389:THR:H	1:7:392:ASN:HD22	1.50	0.59
1:Y:389:THR:H	1:Y:392:ASN:HD22	1.50	0.59
1:i:304:TRP:CZ2	1:i:698:SER:HB3	2.37	0.59
1:1:304:TRP:CZ2	1:1:698:SER:HB3	2.37	0.59
1:2:487:LYS:NZ	1:2:580:THR:O	2.36	0.59
1:7:617:ASP:OD1	1:7:735:SER:OG	2.17	0.59
1:B:304:TRP:CZ2	1:B:698:SER:HB3	2.37	0.58
1:C:429:SER:C	1:b:380:VAL:HG23	2.29	0.58
1:K:380:VAL:HG23	1:8:429:SER:C	2.28	0.58
1:U:304:TRP:CZ2	1:U:698:SER:HB3	2.37	0.58
1:Z:389:THR:H	1:Z:392:ASN:HD22	1.50	0.58
1:Z:429:SER:C	1:4:380:VAL:HG23	2.28	0.58
1:a:487:LYS:NZ	1:a:580:THR:O	2.35	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:f:380:VAL:HG23	1:g:429:SER:C	2.29	0.58
1:x:389:THR:H	1:x:392:ASN:HD22	1.50	0.58
1:z:617:ASP:OD1	1:z:735:SER:OG	2.17	0.58
1:N:304:TRP:CZ2	1:N:698:SER:HB3	2.37	0.58
1:Q:389:THR:H	1:Q:392:ASN:HD22	1.50	0.58
1:X:389:THR:H	1:X:392:ASN:HD22	1.50	0.58
1:i:533:THR:HG22	1:i:569:GLU:H	1.67	0.58
1:1:617:ASP:OD1	1:1:735:SER:OG	2.17	0.58
1:3:487:LYS:NZ	1:3:580:THR:O	2.35	0.58
1:8:389:THR:H	1:8:392:ASN:HD22	1.50	0.58
1:A:380:VAL:HG23	1:I:429:SER:C	2.28	0.58
1:E:429:SER:C	1:Q:380:VAL:HG23	2.28	0.58
1:O:429:SER:C	1:m:380:VAL:HG23	2.28	0.58
1:T:380:VAL:HG23	1:l:429:SER:C	2.28	0.58
1:T:429:SER:C	1:d:380:VAL:HG23	2.29	0.58
1:W:389:THR:H	1:W:392:ASN:HD22	1.50	0.58
1:Y:617:ASP:OD1	1:Y:735:SER:OG	2.17	0.58
1:l:487:LYS:NZ	1:l:580:THR:O	2.36	0.58
1:o:389:THR:H	1:o:392:ASN:HD22	1.50	0.58
1:s:617:ASP:OD1	1:s:735:SER:OG	2.17	0.58
1:w:429:SER:C	1:x:380:VAL:HG23	2.28	0.58
1:2:389:THR:H	1:2:392:ASN:HD22	1.50	0.58
1:D:429:SER:C	1:N:380:VAL:HG23	2.29	0.58
1:F:380:VAL:HG23	1:Q:429:SER:C	2.29	0.58
1:M:487:LYS:NZ	1:M:580:THR:O	2.36	0.58
1:N:533:THR:HG22	1:N:569:GLU:H	1.67	0.58
1:O:487:LYS:NZ	1:O:580:THR:O	2.36	0.58
1:U:617:ASP:OD1	1:U:735:SER:OG	2.17	0.58
1:h:487:LYS:NZ	1:h:580:THR:O	2.36	0.58
1:i:380:VAL:HG23	1:k:429:SER:C	2.29	0.58
1:m:429:SER:C	1:n:380:VAL:HG23	2.29	0.58
1:n:533:THR:HG22	1:n:569:GLU:H	1.67	0.58
1:x:429:SER:C	1:y:380:VAL:HG23	2.29	0.58
1:y:617:ASP:OD1	1:y:735:SER:OG	2.17	0.58
1:6:389:THR:H	1:6:392:ASN:HD22	1.50	0.58
1:B:617:ASP:OD1	1:B:735:SER:OG	2.17	0.58
1:C:380:VAL:HG23	1:M:429:SER:C	2.28	0.58
1:J:389:THR:H	1:J:392:ASN:HD22	1.50	0.58
1:d:533:THR:HG22	1:d:569:GLU:H	1.67	0.58
1:g:380:VAL:HG23	1:h:429:SER:C	2.28	0.58
1:h:533:THR:HG22	1:h:569:GLU:H	1.67	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:k:389:THR:H	1:k:392:ASN:HD22	1.50	0.58
1:p:487:LYS:NZ	1:p:580:THR:O	2.35	0.58
1:D:389:THR:H	1:D:392:ASN:HD22	1.50	0.58
1:F:617:ASP:OD1	1:F:735:SER:OG	2.17	0.58
1:M:533:THR:HG22	1:M:569:GLU:H	1.67	0.58
1:N:429:SER:C	1:P:380:VAL:HG23	2.29	0.58
1:R:487:LYS:NZ	1:R:580:THR:O	2.35	0.58
1:V:487:LYS:NZ	1:V:580:THR:O	2.35	0.58
1:c:487:LYS:NZ	1:c:580:THR:O	2.35	0.58
1:4:304:TRP:CZ2	1:4:698:SER:HB3	2.37	0.58
1:A:429:SER:C	1:G:380:VAL:HG23	2.29	0.58
1:D:380:VAL:HG23	1:P:429:SER:C	2.29	0.58
1:H:380:VAL:HG23	1:Y:429:SER:C	2.29	0.58
1:H:608:VAL:HG12	1:H:611:MET:HE3	1.86	0.58
1:K:304:TRP:CZ2	1:K:698:SER:HB3	2.37	0.58
1:O:389:THR:H	1:O:392:ASN:HD22	1.50	0.58
1:P:389:THR:H	1:P:392:ASN:HD22	1.50	0.58
1:V:429:SER:C	1:e:380:VAL:HG23	2.29	0.58
1:e:487:LYS:NZ	1:e:580:THR:O	2.35	0.58
1:j:389:THR:H	1:j:392:ASN:HD22	1.50	0.58
1:u:429:SER:C	1:v:380:VAL:HG23	2.29	0.58
1:z:380:VAL:HG23	1:2:429:SER:C	2.29	0.58
1:3:608:VAL:HG12	1:3:611:MET:HE3	1.86	0.58
1:5:608:VAL:HG12	1:5:611:MET:HE3	1.86	0.58
1:B:380:VAL:HG23	1:L:429:SER:C	2.29	0.58
1:D:533:THR:HG22	1:D:569:GLU:H	1.67	0.58
1:J:429:SER:C	1:L:380:VAL:HG23	2.29	0.58
1:K:608:VAL:HG12	1:K:611:MET:HE3	1.86	0.58
1:a:608:VAL:HG12	1:a:611:MET:HE3	1.86	0.58
1:c:380:VAL:HG23	1:p:429:SER:C	2.29	0.58
1:i:429:SER:C	1:j:380:VAL:HG23	2.29	0.58
1:q:429:SER:C	1:r:380:VAL:HG23	2.29	0.58
1:q:487:LYS:NZ	1:q:580:THR:O	2.35	0.58
1:t:380:VAL:HG23	1:v:429:SER:C	2.29	0.58
1:4:608:VAL:HG12	1:4:611:MET:HE3	1.86	0.58
1:5:380:VAL:HG23	1:7:429:SER:C	2.29	0.58
1:C:533:THR:HG22	1:C:569:GLU:H	1.67	0.58
1:R:533:THR:HG22	1:R:569:GLU:H	1.67	0.58
1:V:617:ASP:OD1	1:V:735:SER:OG	2.17	0.58
1:2:608:VAL:HG12	1:2:611:MET:HE3	1.86	0.58
1:B:608:VAL:HG12	1:B:611:MET:HE3	1.86	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:608:VAL:HG12	1:G:611:MET:HE3	1.86	0.58
1:R:380:VAL:HG23	1:U:429:SER:C	2.29	0.58
1:R:429:SER:C	1:S:380:VAL:HG23	2.29	0.58
1:U:389:THR:H	1:U:392:ASN:HD22	1.50	0.58
1:V:380:VAL:HG23	1:X:429:SER:C	2.28	0.58
1:V:608:VAL:HG12	1:V:611:MET:HE3	1.86	0.58
1:g:533:THR:HG22	1:g:569:GLU:H	1.67	0.58
1:l:389:THR:H	1:l:392:ASN:HD22	1.50	0.58
1:q:380:VAL:HG23	1:s:429:SER:C	2.29	0.58
1:r:608:VAL:HG12	1:r:611:MET:HE3	1.86	0.58
1:v:608:VAL:HG12	1:v:611:MET:HE3	1.86	0.58
1:z:429:SER:C	1:1:380:VAL:HG23	2.29	0.58
1:1:608:VAL:HG12	1:1:611:MET:HE3	1.86	0.58
1:6:533:THR:HG22	1:6:569:GLU:H	1.67	0.58
1:H:429:SER:C	1:W:380:VAL:HG23	2.29	0.57
1:J:608:VAL:HG12	1:J:611:MET:HE3	1.86	0.57
1:M:608:VAL:HG12	1:M:611:MET:HE3	1.86	0.57
1:P:608:VAL:HG12	1:P:611:MET:HE3	1.86	0.57
1:S:608:VAL:HG12	1:S:611:MET:HE3	1.86	0.57
1:T:608:VAL:HG12	1:T:611:MET:HE3	1.86	0.57
1:j:429:SER:C	1:k:380:VAL:HG23	2.29	0.57
1:k:533:THR:HG22	1:k:569:GLU:H	1.67	0.57
1:m:608:VAL:HG12	1:m:611:MET:HE3	1.86	0.57
1:o:429:SER:C	1:p:380:VAL:HG23	2.28	0.57
1:p:608:VAL:HG12	1:p:611:MET:HE3	1.86	0.57
1:q:533:THR:HG22	1:q:569:GLU:H	1.67	0.57
1:t:608:VAL:HG12	1:t:611:MET:HE3	1.86	0.57
1:z:641:MET:H	1:2:479:ASN:HD22	1.52	0.57
1:5:429:SER:C	1:6:380:VAL:HG23	2.29	0.57
1:A:608:VAL:HG12	1:A:611:MET:HE3	1.86	0.57
1:K:429:SER:C	1:a:380:VAL:HG23	2.29	0.57
1:W:608:VAL:HG12	1:W:611:MET:HE3	1.86	0.57
1:f:608:VAL:HG12	1:f:611:MET:HE3	1.86	0.57
1:h:608:VAL:HG12	1:h:611:MET:HE3	1.86	0.57
1:j:608:VAL:HG12	1:j:611:MET:HE3	1.86	0.57
1:s:389:THR:H	1:s:392:ASN:HD22	1.50	0.57
1:w:380:VAL:HG23	1:y:429:SER:C	2.29	0.57
1:E:380:VAL:HG23	1:F:429:SER:C	2.29	0.57
1:W:533:THR:HG22	1:W:569:GLU:H	1.67	0.57
1:b:608:VAL:HG12	1:b:611:MET:HE3	1.86	0.57
1:6:608:VAL:HG12	1:6:611:MET:HE3	1.86	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:608:VAL:HG12	1:D:611:MET:HE3	1.86	0.57
1:E:389:THR:H	1:E:392:ASN:HD22	1.50	0.57
1:O:380:VAL:HG23	1:n:429:SER:C	2.29	0.57
1:Z:380:VAL:HG23	1:3:429:SER:C	2.29	0.57
1:k:608:VAL:HG12	1:k:611:MET:HE3	1.86	0.57
1:r:389:THR:H	1:r:392:ASN:HD22	1.50	0.57
1:R:608:VAL:HG12	1:R:611:MET:HE3	1.86	0.57
1:a:429:SER:C	1:8:380:VAL:HG23	2.29	0.57
1:d:429:SER:C	1:l:380:VAL:HG23	2.29	0.57
1:f:429:SER:C	1:h:380:VAL:HG23	2.29	0.57
1:S:389:THR:H	1:S:392:ASN:HD22	1.50	0.57
1:T:479:ASN:HD22	1:d:641:MET:H	1.53	0.57
1:m:479:ASN:HD22	1:n:641:MET:H	1.53	0.57
1:w:389:THR:H	1:w:392:ASN:HD22	1.50	0.57
1:3:380:VAL:HG23	1:4:429:SER:C	2.29	0.57
1:G:429:SER:C	1:I:380:VAL:HG23	2.28	0.57
1:M:380:VAL:HG23	1:b:429:SER:C	2.29	0.57
1:X:608:VAL:HG12	1:X:611:MET:HE3	1.86	0.57
1:q:608:VAL:HG12	1:q:611:MET:HE3	1.86	0.57
1:A:641:MET:H	1:I:479:ASN:HD22	1.53	0.57
1:B:429:SER:C	1:J:380:VAL:HG23	2.29	0.57
1:E:479:ASN:HD22	1:Q:641:MET:H	1.53	0.57
1:E:608:VAL:HG12	1:E:611:MET:HE3	1.86	0.57
1:W:429:SER:C	1:Y:380:VAL:HG23	2.29	0.57
1:n:608:VAL:HG12	1:n:611:MET:HE3	1.86	0.57
1:o:608:VAL:HG12	1:o:611:MET:HE3	1.86	0.57
1:w:479:ASN:HD22	1:x:641:MET:H	1.53	0.57
1:w:608:VAL:HG12	1:w:611:MET:HE3	1.86	0.57
1:6:429:SER:C	1:7:380:VAL:HG23	2.29	0.57
1:J:479:ASN:HD22	1:L:641:MET:H	1.53	0.57
1:X:380:VAL:HG23	1:e:429:SER:C	2.29	0.57
1:c:429:SER:C	1:o:380:VAL:HG23	2.29	0.57
1:t:429:SER:C	1:u:380:VAL:HG23	2.28	0.57
1:l:429:SER:C	1:2:380:VAL:HG23	2.29	0.57
1:L:389:THR:H	1:L:392:ASN:HD22	1.50	0.57
1:V:641:MET:H	1:X:479:ASN:HD22	1.53	0.57
1:d:608:VAL:HG12	1:d:611:MET:HE3	1.86	0.57
1:i:608:VAL:HG12	1:i:611:MET:HE3	1.86	0.57
1:u:389:THR:H	1:u:392:ASN:HD22	1.50	0.57
1:F:641:MET:H	1:Q:479:ASN:HD22	1.53	0.56
1:H:479:ASN:HD22	1:W:641:MET:H	1.53	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:o:479:ASN:HD22	1:p:641:MET:H	1.53	0.56
1:u:479:ASN:HD22	1:v:641:MET:H	1.53	0.56
1:z:389:THR:H	1:z:392:ASN:HD22	1.50	0.56
1:5:479:ASN:HD22	1:6:641:MET:H	1.53	0.56
1:L:608:VAL:HG12	1:L:611:MET:HE3	1.86	0.56
1:S:429:SER:C	1:U:380:VAL:HG23	2.29	0.56
1:S:479:ASN:HD22	1:U:641:MET:H	1.53	0.56
1:c:608:VAL:HG12	1:c:611:MET:HE3	1.86	0.56
1:e:389:THR:H	1:e:392:ASN:HD22	1.50	0.56
1:i:479:ASN:HD22	1:j:641:MET:H	1.53	0.56
1:r:429:SER:C	1:s:380:VAL:HG23	2.29	0.56
1:x:479:ASN:HD22	1:y:641:MET:H	1.53	0.56
1:B:479:ASN:HD22	1:J:641:MET:H	1.53	0.56
1:F:608:VAL:HG12	1:F:611:MET:HE3	1.86	0.56
1:H:641:MET:H	1:Y:479:ASN:HD22	1.53	0.56
1:I:389:THR:H	1:I:392:ASN:HD22	1.50	0.56
1:N:479:ASN:HD22	1:P:641:MET:H	1.53	0.56
1:N:608:VAL:HG12	1:N:611:MET:HE3	1.86	0.56
1:O:608:VAL:HG12	1:O:611:MET:HE3	1.86	0.56
1:O:641:MET:H	1:n:479:ASN:HD22	1.53	0.56
1:c:389:THR:H	1:c:392:ASN:HD22	1.50	0.56
1:d:479:ASN:HD22	1:l:641:MET:H	1.53	0.56
1:e:608:VAL:HG12	1:e:611:MET:HE3	1.86	0.56
1:l:608:VAL:HG12	1:l:611:MET:HE3	1.86	0.56
1:r:479:ASN:HD22	1:s:641:MET:H	1.53	0.56
1:y:608:VAL:HG12	1:y:611:MET:HE3	1.86	0.56
1:z:608:VAL:HG12	1:z:611:MET:HE3	1.86	0.56
1:1:479:ASN:HD22	1:2:641:MET:H	1.53	0.56
1:5:641:MET:H	1:7:479:ASN:HD22	1.53	0.56
1:8:608:VAL:HG12	1:8:611:MET:HE3	1.86	0.56
1:H:569:GLU:O	1:H:572:ILE:HG12	2.06	0.56
1:K:569:GLU:O	1:K:572:ILE:HG12	2.06	0.56
1:P:569:GLU:O	1:P:572:ILE:HG12	2.06	0.56
1:Q:569:GLU:O	1:Q:572:ILE:HG12	2.06	0.56
1:U:608:VAL:HG12	1:U:611:MET:HE3	1.86	0.56
1:Z:608:VAL:HG12	1:Z:611:MET:HE3	1.86	0.56
1:Z:641:MET:H	1:3:479:ASN:HD22	1.53	0.56
1:a:479:ASN:HD22	1:8:641:MET:H	1.53	0.56
1:j:569:GLU:O	1:j:572:ILE:HG12	2.06	0.56
1:s:608:VAL:HG12	1:s:611:MET:HE3	1.86	0.56
1:x:569:GLU:O	1:x:572:ILE:HG12	2.06	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:3:641:MET:H	1:4:479:ASN:HD22	1.53	0.56
1:4:569:GLU:O	1:4:572:ILE:HG12	2.06	0.56
1:5:569:GLU:O	1:5:572:ILE:HG12	2.06	0.56
1:F:569:GLU:O	1:F:572:ILE:HG12	2.06	0.56
1:I:569:GLU:O	1:I:572:ILE:HG12	2.06	0.56
1:J:569:GLU:O	1:J:572:ILE:HG12	2.06	0.56
1:K:479:ASN:HD22	1:a:641:MET:H	1.53	0.56
1:L:569:GLU:O	1:L:572:ILE:HG12	2.06	0.56
1:b:569:GLU:O	1:b:572:ILE:HG12	2.06	0.56
1:f:569:GLU:O	1:f:572:ILE:HG12	2.06	0.56
1:u:608:VAL:HG12	1:u:611:MET:HE3	1.86	0.56
1:y:569:GLU:O	1:y:572:ILE:HG12	2.06	0.56
1:z:569:GLU:O	1:z:572:ILE:HG12	2.06	0.56
1:2:569:GLU:O	1:2:572:ILE:HG12	2.06	0.56
1:A:479:ASN:HD22	1:G:641:MET:H	1.54	0.56
1:Z:569:GLU:O	1:Z:572:ILE:HG12	2.06	0.56
1:k:569:GLU:O	1:k:572:ILE:HG12	2.06	0.56
1:t:641:MET:H	1:v:479:ASN:HD22	1.53	0.56
1:u:569:GLU:O	1:u:572:ILE:HG12	2.06	0.56
1:7:608:VAL:HG12	1:7:611:MET:HE3	1.86	0.56
1:8:569:GLU:O	1:8:572:ILE:HG12	2.06	0.56
1:A:569:GLU:O	1:A:572:ILE:HG12	2.06	0.56
1:C:608:VAL:HG12	1:C:611:MET:HE3	1.86	0.56
1:C:641:MET:H	1:M:479:ASN:HD22	1.53	0.56
1:D:569:GLU:O	1:D:572:ILE:HG12	2.06	0.56
1:a:569:GLU:O	1:a:572:ILE:HG12	2.06	0.56
1:v:569:GLU:O	1:v:572:ILE:HG12	2.06	0.56
1:3:569:GLU:O	1:3:572:ILE:HG12	2.06	0.56
1:C:569:GLU:O	1:C:572:ILE:HG12	2.06	0.56
1:E:641:MET:H	1:F:479:ASN:HD22	1.53	0.56
1:J:286:ARG:HD2	1:J:288:HIS:NE2	2.21	0.56
1:L:286:ARG:HD2	1:L:288:HIS:NE2	2.21	0.56
1:N:430:GLN:HE22	1:P:351:PRO:HB3	1.71	0.56
1:Q:608:VAL:HG12	1:Q:611:MET:HE3	1.86	0.56
1:V:479:ASN:HD22	1:e:641:MET:H	1.53	0.56
1:Y:608:VAL:HG12	1:Y:611:MET:HE3	1.86	0.56
1:g:608:VAL:HG12	1:g:611:MET:HE3	1.86	0.56
1:g:641:MET:H	1:h:479:ASN:HD22	1.53	0.56
1:i:430:GLN:HE22	1:j:351:PRO:HB3	1.71	0.56
1:t:351:PRO:HB3	1:v:430:GLN:HE22	1.71	0.56
1:w:641:MET:H	1:y:479:ASN:HD22	1.53	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:2:286:ARG:HD2	1:2:288:HIS:NE2	2.21	0.56
1:5:351:PRO:HB3	1:7:430:GLN:HE22	1.71	0.56
1:A:430:GLN:HE22	1:G:351:PRO:HB3	1.71	0.56
1:E:286:ARG:HD2	1:E:288:HIS:NE2	2.21	0.56
1:F:286:ARG:HD2	1:F:288:HIS:NE2	2.21	0.56
1:H:351:PRO:HB3	1:Y:430:GLN:HE22	1.71	0.56
1:I:608:VAL:HG12	1:I:611:MET:HE3	1.86	0.56
1:N:569:GLU:O	1:N:572:ILE:HG12	2.06	0.56
1:T:569:GLU:O	1:T:572:ILE:HG12	2.06	0.56
1:Y:286:ARG:HD2	1:Y:288:HIS:NE2	2.21	0.56
1:b:286:ARG:HD2	1:b:288:HIS:NE2	2.21	0.56
1:g:569:GLU:O	1:g:572:ILE:HG12	2.06	0.56
1:m:569:GLU:O	1:m:572:ILE:HG12	2.06	0.56
1:q:641:MET:H	1:s:479:ASN:HD22	1.53	0.56
1:w:286:ARG:HD2	1:w:288:HIS:NE2	2.21	0.56
1:y:286:ARG:HD2	1:y:288:HIS:NE2	2.21	0.56
1:z:286:ARG:HD2	1:z:288:HIS:NE2	2.21	0.56
1:1:430:GLN:HE22	1:2:351:PRO:HB3	1.71	0.56
1:7:286:ARG:HD2	1:7:288:HIS:NE2	2.21	0.56
1:B:430:GLN:HE22	1:J:351:PRO:HB3	1.71	0.56
1:M:286:ARG:HD2	1:M:288:HIS:NE2	2.21	0.56
1:R:641:MET:H	1:U:479:ASN:HD22	1.53	0.56
1:c:641:MET:H	1:p:479:ASN:HD22	1.53	0.56
1:f:286:ARG:HD2	1:f:288:HIS:NE2	2.21	0.56
1:r:569:GLU:O	1:r:572:ILE:HG12	2.06	0.56
1:t:569:GLU:O	1:t:572:ILE:HG12	2.06	0.56
1:v:286:ARG:HD2	1:v:288:HIS:NE2	2.21	0.56
1:x:608:VAL:HG12	1:x:611:MET:HE3	1.86	0.56
1:5:286:ARG:HD2	1:5:288:HIS:NE2	2.21	0.56
1:7:569:GLU:O	1:7:572:ILE:HG12	2.06	0.56
1:A:286:ARG:HD2	1:A:288:HIS:NE2	2.21	0.55
1:B:569:GLU:O	1:B:572:ILE:HG12	2.06	0.55
1:G:569:GLU:O	1:G:572:ILE:HG12	2.06	0.55
1:M:351:PRO:HB3	1:b:430:GLN:HE22	1.71	0.55
1:R:286:ARG:HD2	1:R:288:HIS:NE2	2.21	0.55
1:S:430:GLN:HE22	1:U:351:PRO:HB3	1.71	0.55
1:S:569:GLU:O	1:S:572:ILE:HG12	2.06	0.55
1:Y:569:GLU:O	1:Y:572:ILE:HG12	2.06	0.55
1:Z:351:PRO:HB3	1:3:430:GLN:HE22	1.71	0.55
1:h:286:ARG:HD2	1:h:288:HIS:NE2	2.21	0.55
1:i:286:ARG:HD2	1:i:288:HIS:NE2	2.21	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:i:569:GLU:O	1:i:572:ILE:HG12	2.06	0.55
1:j:430:GLN:HE22	1:k:351:PRO:HB3	1.71	0.55
1:r:430:GLN:HE22	1:s:351:PRO:HB3	1.71	0.55
1:D:351:PRO:HB3	1:P:430:GLN:HE22	1.71	0.55
1:H:286:ARG:HD2	1:H:288:HIS:NE2	2.21	0.55
1:N:286:ARG:HD2	1:N:288:HIS:NE2	2.21	0.55
1:O:569:GLU:O	1:O:572:ILE:HG12	2.06	0.55
1:W:286:ARG:HD2	1:W:288:HIS:NE2	2.21	0.55
1:a:430:GLN:HE22	1:8:351:PRO:HB3	1.71	0.55
1:f:430:GLN:HE22	1:h:351:PRO:HB3	1.71	0.55
1:l:286:ARG:HD2	1:l:288:HIS:NE2	2.21	0.55
1:l:569:GLU:O	1:l:572:ILE:HG12	2.06	0.55
1:m:286:ARG:HD2	1:m:288:HIS:NE2	2.21	0.55
1:q:286:ARG:HD2	1:q:288:HIS:NE2	2.21	0.55
1:1:569:GLU:O	1:1:572:ILE:HG12	2.06	0.55
1:K:351:PRO:HB3	1:8:430:GLN:HE22	1.72	0.55
1:O:286:ARG:HD2	1:O:288:HIS:NE2	2.21	0.55
1:O:430:GLN:HE22	1:m:351:PRO:HB3	1.72	0.55
1:T:286:ARG:HD2	1:T:288:HIS:NE2	2.21	0.55
1:T:641:MET:H	1:l:479:ASN:HD22	1.53	0.55
1:U:569:GLU:O	1:U:572:ILE:HG12	2.06	0.55
1:V:430:GLN:HE22	1:e:351:PRO:HB3	1.72	0.55
1:X:286:ARG:HD2	1:X:288:HIS:NE2	2.21	0.55
1:c:351:PRO:HB3	1:p:430:GLN:HE22	1.72	0.55
1:c:430:GLN:HE22	1:o:351:PRO:HB3	1.71	0.55
1:d:286:ARG:HD2	1:d:288:HIS:NE2	2.21	0.55
1:h:569:GLU:O	1:h:572:ILE:HG12	2.06	0.55
1:r:286:ARG:HD2	1:r:288:HIS:NE2	2.21	0.55
1:s:569:GLU:O	1:s:572:ILE:HG12	2.06	0.55
1:6:286:ARG:HD2	1:6:288:HIS:NE2	2.21	0.55
1:I:286:ARG:HD2	1:I:288:HIS:NE2	2.21	0.55
1:K:430:GLN:HE22	1:a:351:PRO:HB3	1.72	0.55
1:M:569:GLU:O	1:M:572:ILE:HG12	2.06	0.55
1:O:479:ASN:HD22	1:m:641:MET:H	1.53	0.55
1:S:286:ARG:HD2	1:S:288:HIS:NE2	2.21	0.55
1:T:351:PRO:HB3	1:l:430:GLN:HE22	1.72	0.55
1:V:286:ARG:HD2	1:V:288:HIS:NE2	2.21	0.55
1:V:569:GLU:O	1:V:572:ILE:HG12	2.06	0.55
1:X:351:PRO:HB3	1:e:430:GLN:HE22	1.71	0.55
1:Z:430:GLN:HE22	1:4:351:PRO:HB3	1.72	0.55
1:o:286:ARG:HD2	1:o:288:HIS:NE2	2.21	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:p:286:ARG:HD2	1:p:288:HIS:NE2	2.21	0.55
1:u:286:ARG:HD2	1:u:288:HIS:NE2	2.21	0.55
1:3:351:PRO:HB3	1:4:430:GLN:HE22	1.72	0.55
1:D:286:ARG:HD2	1:D:288:HIS:NE2	2.21	0.55
1:H:289:CYS:SG	1:H:361:SER:OG	2.65	0.55
1:J:430:GLN:HE22	1:L:351:PRO:HB3	1.71	0.55
1:R:430:GLN:HE22	1:S:351:PRO:HB3	1.71	0.55
1:k:286:ARG:HD2	1:k:288:HIS:NE2	2.21	0.55
1:n:286:ARG:HD2	1:n:288:HIS:NE2	2.21	0.55
1:o:569:GLU:O	1:o:572:ILE:HG12	2.06	0.55
1:p:569:GLU:O	1:p:572:ILE:HG12	2.06	0.55
1:q:430:GLN:HE22	1:r:351:PRO:HB3	1.71	0.55
1:5:289:CYS:SG	1:5:361:SER:OG	2.65	0.55
1:8:286:ARG:HD2	1:8:288:HIS:NE2	2.21	0.55
1:B:286:ARG:HD2	1:B:288:HIS:NE2	2.21	0.55
1:E:351:PRO:HB3	1:F:430:GLN:HE22	1.71	0.55
1:E:569:GLU:O	1:E:572:ILE:HG12	2.06	0.55
1:G:430:GLN:HE22	1:I:351:PRO:HB3	1.72	0.55
1:L:289:CYS:SG	1:L:361:SER:OG	2.65	0.55
1:O:351:PRO:HB3	1:n:430:GLN:HE22	1.71	0.55
1:W:569:GLU:O	1:W:572:ILE:HG12	2.06	0.55
1:X:569:GLU:O	1:X:572:ILE:HG12	2.06	0.55
1:Z:286:ARG:HD2	1:Z:288:HIS:NE2	2.21	0.55
1:o:289:CYS:SG	1:o:361:SER:OG	2.65	0.55
1:u:289:CYS:SG	1:u:361:SER:OG	2.65	0.55
1:u:430:GLN:HE22	1:v:351:PRO:HB3	1.72	0.55
1:z:289:CYS:SG	1:z:361:SER:OG	2.65	0.55
1:6:569:GLU:O	1:6:572:ILE:HG12	2.06	0.55
1:D:641:MET:H	1:P:479:ASN:HD22	1.53	0.55
1:H:430:GLN:HE22	1:W:351:PRO:HB3	1.71	0.55
1:I:289:CYS:SG	1:I:361:SER:OG	2.65	0.55
1:M:289:CYS:SG	1:M:361:SER:OG	2.65	0.55
1:O:289:CYS:SG	1:O:361:SER:OG	2.65	0.55
1:Q:286:ARG:HD2	1:Q:288:HIS:NE2	2.21	0.55
1:U:286:ARG:HD2	1:U:288:HIS:NE2	2.21	0.55
1:X:289:CYS:SG	1:X:361:SER:OG	2.65	0.55
1:d:430:GLN:HE22	1:l:351:PRO:HB3	1.71	0.55
1:h:289:CYS:SG	1:h:361:SER:OG	2.65	0.55
1:j:479:ASN:HD22	1:k:641:MET:H	1.53	0.55
1:l:289:CYS:SG	1:l:361:SER:OG	2.65	0.55
1:o:430:GLN:HE22	1:p:351:PRO:HB3	1.72	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:q:569:GLU:O	1:q:572:ILE:HG12	2.06	0.55
1:s:286:ARG:HD2	1:s:288:HIS:NE2	2.21	0.55
1:t:430:GLN:HE22	1:u:351:PRO:HB3	1.72	0.55
1:w:569:GLU:O	1:w:572:ILE:HG12	2.06	0.55
1:x:430:GLN:HE22	1:y:351:PRO:HB3	1.72	0.55
1:B:641:MET:H	1:L:479:ASN:HD22	1.53	0.55
1:C:286:ARG:HD2	1:C:288:HIS:NE2	2.21	0.55
1:C:430:GLN:HE22	1:b:351:PRO:HB3	1.72	0.55
1:E:289:CYS:SG	1:E:361:SER:OG	2.65	0.55
1:F:351:PRO:HB3	1:Q:430:GLN:HE22	1.72	0.55
1:R:479:ASN:HD22	1:S:641:MET:H	1.53	0.55
1:S:289:CYS:SG	1:S:361:SER:OG	2.65	0.55
1:V:351:PRO:HB3	1:X:430:GLN:HE22	1.72	0.55
1:c:289:CYS:SG	1:c:361:SER:OG	2.65	0.55
1:e:289:CYS:SG	1:e:361:SER:OG	2.65	0.55
1:e:569:GLU:O	1:e:572:ILE:HG12	2.06	0.55
1:f:351:PRO:HB3	1:g:430:GLN:HE22	1.72	0.55
1:q:479:ASN:HD22	1:r:641:MET:H	1.53	0.55
1:r:289:CYS:SG	1:r:361:SER:OG	2.65	0.55
1:w:289:CYS:SG	1:w:361:SER:OG	2.65	0.55
1:w:351:PRO:HB3	1:y:430:GLN:HE22	1.71	0.55
1:x:286:ARG:HD2	1:x:288:HIS:NE2	2.21	0.55
1:1:286:ARG:HD2	1:1:288:HIS:NE2	2.21	0.55
1:5:430:GLN:HE22	1:6:351:PRO:HB3	1.71	0.55
1:6:479:ASN:HD22	1:7:641:MET:H	1.53	0.55
1:A:289:CYS:SG	1:A:361:SER:OG	2.65	0.55
1:D:515:HIS:CE1	1:P:585:GLN:HB2	2.42	0.55
1:M:641:MET:H	1:b:479:ASN:HD22	1.53	0.55
1:R:569:GLU:O	1:R:572:ILE:HG12	2.06	0.55
1:W:479:ASN:HD22	1:Y:641:MET:H	1.53	0.55
1:a:286:ARG:HD2	1:a:288:HIS:NE2	2.21	0.55
1:v:289:CYS:SG	1:v:361:SER:OG	2.65	0.55
1:3:286:ARG:HD2	1:3:288:HIS:NE2	2.21	0.55
1:A:351:PRO:HB3	1:I:430:GLN:HE22	1.72	0.55
1:J:289:CYS:SG	1:J:361:SER:OG	2.65	0.55
1:P:289:CYS:SG	1:P:361:SER:OG	2.65	0.55
1:g:286:ARG:HD2	1:g:288:HIS:NE2	2.21	0.55
1:j:585:GLN:HB2	1:k:515:HIS:CE1	2.42	0.55
1:p:617:ASP:OD1	1:p:735:SER:OG	2.17	0.55
1:t:479:ASN:HD22	1:u:641:MET:H	1.53	0.55
1:z:351:PRO:HB3	1:2:430:GLN:HE22	1.72	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:z:479:ASN:HD22	1:1:641:MET:H	1.53	0.55
1:2:289:CYS:SG	1:2:361:SER:OG	2.65	0.55
1:C:479:ASN:HD22	1:b:641:MET:H	1.53	0.54
1:G:479:ASN:HD22	1:I:641:MET:H	1.53	0.54
1:H:585:GLN:HB2	1:W:515:HIS:CE1	2.42	0.54
1:J:389:THR:H	1:J:392:ASN:ND2	2.06	0.54
1:K:641:MET:H	1:8:479:ASN:HD22	1.53	0.54
1:P:389:THR:H	1:P:392:ASN:ND2	2.05	0.54
1:c:569:GLU:O	1:c:572:ILE:HG12	2.06	0.54
1:e:286:ARG:HD2	1:e:288:HIS:NE2	2.21	0.54
1:f:479:ASN:HD22	1:h:641:MET:H	1.54	0.54
1:j:289:CYS:SG	1:j:361:SER:OG	2.65	0.54
1:q:351:PRO:HB3	1:s:430:GLN:HE22	1.71	0.54
1:2:389:THR:H	1:2:392:ASN:ND2	2.06	0.54
1:B:289:CYS:SG	1:B:361:SER:OG	2.65	0.54
1:L:389:THR:H	1:L:392:ASN:ND2	2.06	0.54
1:P:286:ARG:HD2	1:P:288:HIS:NE2	2.21	0.54
1:R:351:PRO:HB3	1:U:430:GLN:HE22	1.71	0.54
1:X:389:THR:H	1:X:392:ASN:ND2	2.06	0.54
1:f:641:MET:H	1:g:479:ASN:HD22	1.53	0.54
1:k:289:CYS:SG	1:k:361:SER:OG	2.65	0.54
1:n:389:THR:H	1:n:392:ASN:ND2	2.06	0.54
1:n:569:GLU:O	1:n:572:ILE:HG12	2.06	0.54
1:o:389:THR:H	1:o:392:ASN:ND2	2.06	0.54
1:t:515:HIS:CE1	1:v:585:GLN:HB2	2.43	0.54
1:z:389:THR:H	1:z:392:ASN:ND2	2.06	0.54
1:4:289:CYS:SG	1:4:361:SER:OG	2.65	0.54
1:5:585:GLN:HB2	1:6:515:HIS:CE1	2.42	0.54
1:D:289:CYS:SG	1:D:361:SER:OG	2.65	0.54
1:H:389:THR:H	1:H:392:ASN:ND2	2.06	0.54
1:K:446:HIS:ND1	1:K:468:ILE:HG12	2.23	0.54
1:V:389:THR:H	1:V:392:ASN:ND2	2.06	0.54
1:X:641:MET:H	1:e:479:ASN:HD22	1.53	0.54
1:b:446:HIS:ND1	1:b:468:ILE:HG12	2.23	0.54
1:c:286:ARG:HD2	1:c:288:HIS:NE2	2.21	0.54
1:c:479:ASN:HD22	1:o:641:MET:H	1.53	0.54
1:d:389:THR:H	1:d:392:ASN:ND2	2.06	0.54
1:f:446:HIS:ND1	1:f:468:ILE:HG12	2.23	0.54
1:i:351:PRO:HB3	1:k:430:GLN:HE22	1.71	0.54
1:j:389:THR:H	1:j:392:ASN:ND2	2.06	0.54
1:p:389:THR:H	1:p:392:ASN:ND2	2.06	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:z:446:HIS:ND1	1:z:468:ILE:HG12	2.23	0.54
1:1:289:CYS:SG	1:1:361:SER:OG	2.65	0.54
1:5:389:THR:H	1:5:392:ASN:ND2	2.05	0.54
1:C:351:PRO:HB3	1:M:430:GLN:HE22	1.72	0.54
1:F:446:HIS:ND1	1:F:468:ILE:HG12	2.23	0.54
1:K:286:ARG:HD2	1:K:288:HIS:NE2	2.21	0.54
1:K:289:CYS:SG	1:K:361:SER:OG	2.65	0.54
1:L:446:HIS:ND1	1:L:468:ILE:HG12	2.23	0.54
1:Q:446:HIS:ND1	1:Q:468:ILE:HG12	2.23	0.54
1:T:430:GLN:HE22	1:d:351:PRO:HB3	1.72	0.54
1:T:446:HIS:ND1	1:T:468:ILE:HG12	2.23	0.54
1:U:289:CYS:SG	1:U:361:SER:OG	2.65	0.54
1:V:289:CYS:SG	1:V:361:SER:OG	2.65	0.54
1:V:446:HIS:ND1	1:V:468:ILE:HG12	2.23	0.54
1:Y:446:HIS:ND1	1:Y:468:ILE:HG12	2.23	0.54
1:Z:479:ASN:HD22	1:4:641:MET:H	1.53	0.54
1:d:569:GLU:O	1:d:572:ILE:HG12	2.06	0.54
1:j:286:ARG:HD2	1:j:288:HIS:NE2	2.21	0.54
1:p:289:CYS:SG	1:p:361:SER:OG	2.65	0.54
1:p:446:HIS:ND1	1:p:468:ILE:HG12	2.23	0.54
1:x:446:HIS:ND1	1:x:468:ILE:HG12	2.23	0.54
1:y:446:HIS:ND1	1:y:468:ILE:HG12	2.23	0.54
1:z:430:GLN:HE22	1:1:351:PRO:HB3	1.71	0.54
1:4:446:HIS:ND1	1:4:468:ILE:HG12	2.23	0.54
1:5:515:HIS:CE1	1:7:585:GLN:HB2	2.42	0.54
1:7:446:HIS:ND1	1:7:468:ILE:HG12	2.23	0.54
1:A:585:GLN:HB2	1:G:515:HIS:CE1	2.43	0.54
1:B:389:THR:H	1:B:392:ASN:ND2	2.06	0.54
1:B:515:HIS:CE1	1:L:585:GLN:HB2	2.43	0.54
1:D:430:GLN:HE22	1:N:351:PRO:HB3	1.71	0.54
1:G:286:ARG:HD2	1:G:288:HIS:NE2	2.21	0.54
1:H:515:HIS:CE1	1:Y:585:GLN:HB2	2.42	0.54
1:V:585:GLN:HB2	1:e:515:HIS:CE1	2.43	0.54
1:W:389:THR:H	1:W:392:ASN:ND2	2.05	0.54
1:W:446:HIS:ND1	1:W:468:ILE:HG12	2.23	0.54
1:Y:289:CYS:SG	1:Y:361:SER:OG	2.65	0.54
1:Z:515:HIS:CE1	1:3:585:GLN:HB2	2.43	0.54
1:a:585:GLN:HB2	1:8:515:HIS:CE1	2.43	0.54
1:d:446:HIS:ND1	1:d:468:ILE:HG12	2.23	0.54
1:f:585:GLN:HB2	1:h:515:HIS:CE1	2.43	0.54
1:g:351:PRO:HB3	1:h:430:GLN:HE22	1.72	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:m:430:GLN:HE22	1:n:351:PRO:HB3	1.72	0.54
1:m:446:HIS:ND1	1:m:468:ILE:HG12	2.23	0.54
1:u:389:THR:H	1:u:392:ASN:ND2	2.06	0.54
1:w:446:HIS:ND1	1:w:468:ILE:HG12	2.23	0.54
1:3:289:CYS:SG	1:3:361:SER:OG	2.65	0.54
1:4:286:ARG:HD2	1:4:288:HIS:NE2	2.21	0.54
1:6:446:HIS:ND1	1:6:468:ILE:HG12	2.23	0.54
1:7:289:CYS:SG	1:7:361:SER:OG	2.65	0.54
1:B:351:PRO:HB3	1:L:430:GLN:HE22	1.71	0.54
1:E:446:HIS:ND1	1:E:468:ILE:HG12	2.23	0.54
1:F:289:CYS:SG	1:F:361:SER:OG	2.65	0.54
1:H:446:HIS:ND1	1:H:468:ILE:HG12	2.23	0.54
1:M:515:HIS:CE1	1:b:585:GLN:HB2	2.43	0.54
1:T:289:CYS:SG	1:T:361:SER:OG	2.65	0.54
1:T:515:HIS:CE1	1:l:585:GLN:HB2	2.43	0.54
1:W:585:GLN:HB2	1:Y:515:HIS:CE1	2.43	0.54
1:X:446:HIS:ND1	1:X:468:ILE:HG12	2.23	0.54
1:Z:289:CYS:SG	1:Z:361:SER:OG	2.65	0.54
1:c:515:HIS:CE1	1:p:585:GLN:HB2	2.43	0.54
1:g:515:HIS:CE1	1:h:585:GLN:HB2	2.43	0.54
1:i:289:CYS:SG	1:i:361:SER:OG	2.65	0.54
1:i:476:TYR:HE2	1:j:358:GLN:HE21	1.56	0.54
1:i:585:GLN:HB2	1:j:515:HIS:CE1	2.42	0.54
1:n:446:HIS:ND1	1:n:468:ILE:HG12	2.23	0.54
1:o:446:HIS:ND1	1:o:468:ILE:HG12	2.23	0.54
1:s:446:HIS:ND1	1:s:468:ILE:HG12	2.23	0.54
1:t:286:ARG:HD2	1:t:288:HIS:NE2	2.21	0.54
1:y:289:CYS:SG	1:y:361:SER:OG	2.65	0.54
1:1:389:THR:H	1:1:392:ASN:ND2	2.06	0.54
1:1:446:HIS:ND1	1:1:468:ILE:HG12	2.23	0.54
1:A:446:HIS:ND1	1:A:468:ILE:HG12	2.23	0.54
1:B:446:HIS:ND1	1:B:468:ILE:HG12	2.23	0.54
1:C:289:CYS:SG	1:C:361:SER:OG	2.65	0.54
1:C:515:HIS:CE1	1:M:585:GLN:HB2	2.43	0.54
1:I:389:THR:H	1:I:392:ASN:ND2	2.06	0.54
1:N:585:GLN:HB2	1:P:515:HIS:CE1	2.42	0.54
1:O:585:GLN:HB2	1:m:515:HIS:CE1	2.43	0.54
1:Q:389:THR:H	1:Q:392:ASN:ND2	2.06	0.54
1:R:289:CYS:SG	1:R:361:SER:OG	2.65	0.54
1:U:446:HIS:ND1	1:U:468:ILE:HG12	2.23	0.54
1:a:289:CYS:SG	1:a:361:SER:OG	2.65	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:a:389:THR:H	1:a:392:ASN:ND2	2.06	0.54
1:g:289:CYS:SG	1:g:361:SER:OG	2.65	0.54
1:m:289:CYS:SG	1:m:361:SER:OG	2.65	0.54
1:q:289:CYS:SG	1:q:361:SER:OG	2.65	0.54
1:v:446:HIS:ND1	1:v:468:ILE:HG12	2.23	0.54
1:3:389:THR:H	1:3:392:ASN:ND2	2.06	0.54
1:5:446:HIS:ND1	1:5:468:ILE:HG12	2.23	0.54
1:6:389:THR:H	1:6:392:ASN:ND2	2.06	0.54
1:6:585:GLN:HB2	1:7:515:HIS:CE1	2.43	0.54
1:8:289:CYS:SG	1:8:361:SER:OG	2.65	0.54
1:A:515:HIS:CE1	1:I:585:GLN:HB2	2.43	0.54
1:J:446:HIS:ND1	1:J:468:ILE:HG12	2.23	0.54
1:K:515:HIS:CE1	1:8:585:GLN:HB2	2.43	0.54
1:N:289:CYS:SG	1:N:361:SER:OG	2.65	0.54
1:N:476:TYR:HE2	1:P:358:GLN:HE21	1.56	0.54
1:W:289:CYS:SG	1:W:361:SER:OG	2.65	0.54
1:Z:389:THR:H	1:Z:392:ASN:ND2	2.06	0.54
1:c:389:THR:H	1:c:392:ASN:ND2	2.06	0.54
1:c:585:GLN:HB2	1:o:515:HIS:CE1	2.43	0.54
1:e:389:THR:H	1:e:392:ASN:ND2	2.06	0.54
1:m:585:GLN:HB2	1:n:515:HIS:CE1	2.43	0.54
1:x:389:THR:H	1:x:392:ASN:ND2	2.06	0.54
1:z:585:GLN:HB2	1:1:515:HIS:CE1	2.43	0.54
1:6:289:CYS:SG	1:6:361:SER:OG	2.65	0.54
1:8:389:THR:H	1:8:392:ASN:ND2	2.06	0.54
1:C:585:GLN:HB2	1:b:515:HIS:CE1	2.43	0.54
1:C:700:ARG:HD3	1:C:704:GLU:OE2	2.08	0.54
1:D:389:THR:H	1:D:392:ASN:ND2	2.06	0.54
1:D:479:ASN:HD22	1:N:641:MET:H	1.53	0.54
1:E:389:THR:H	1:E:392:ASN:ND2	2.06	0.54
1:N:389:THR:H	1:N:392:ASN:ND2	2.06	0.54
1:P:700:ARG:HD3	1:P:704:GLU:OE2	2.08	0.54
1:S:585:GLN:HB2	1:U:515:HIS:CE1	2.43	0.54
1:T:585:GLN:HB2	1:d:515:HIS:CE1	2.43	0.54
1:W:430:GLN:HE22	1:Y:351:PRO:HB3	1.71	0.54
1:W:700:ARG:HD3	1:W:704:GLU:OE2	2.08	0.54
1:X:515:HIS:CE1	1:e:585:GLN:HB2	2.43	0.54
1:X:700:ARG:HD3	1:X:704:GLU:OE2	2.08	0.54
1:Z:700:ARG:HD3	1:Z:704:GLU:OE2	2.08	0.54
1:b:700:ARG:HD3	1:b:704:GLU:OE2	2.08	0.54
1:d:585:GLN:HB2	1:l:515:HIS:CE1	2.43	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:f:700:ARG:HD3	1:f:704:GLU:OE2	2.08	0.54
1:g:700:ARG:HD3	1:g:704:GLU:OE2	2.08	0.54
1:i:641:MET:H	1:k:479:ASN:HD22	1.53	0.54
1:j:700:ARG:HD3	1:j:704:GLU:OE2	2.08	0.54
1:k:389:THR:H	1:k:392:ASN:ND2	2.05	0.54
1:o:700:ARG:HD3	1:o:704:GLU:OE2	2.08	0.54
1:q:389:THR:H	1:q:392:ASN:ND2	2.06	0.54
1:r:585:GLN:HB2	1:s:515:HIS:CE1	2.43	0.54
1:s:289:CYS:SG	1:s:361:SER:OG	2.65	0.54
1:t:358:GLN:HE21	1:v:476:TYR:HE2	1.56	0.54
1:u:585:GLN:HB2	1:v:515:HIS:CE1	2.43	0.54
1:1:585:GLN:HB2	1:2:515:HIS:CE1	2.43	0.54
1:2:446:HIS:ND1	1:2:468:ILE:HG12	2.23	0.54
1:6:700:ARG:HD3	1:6:704:GLU:OE2	2.08	0.54
1:A:476:TYR:HE2	1:G:358:GLN:HE21	1.56	0.54
1:B:585:GLN:HB2	1:J:515:HIS:CE1	2.43	0.54
1:G:289:CYS:SG	1:G:361:SER:OG	2.65	0.54
1:P:446:HIS:ND1	1:P:468:ILE:HG12	2.23	0.54
1:T:700:ARG:HD3	1:T:704:GLU:OE2	2.08	0.54
1:Z:585:GLN:HB2	1:4:515:HIS:CE1	2.43	0.54
1:b:289:CYS:SG	1:b:361:SER:OG	2.65	0.54
1:c:700:ARG:HD3	1:c:704:GLU:OE2	2.08	0.54
1:d:289:CYS:SG	1:d:361:SER:OG	2.65	0.54
1:f:289:CYS:SG	1:f:361:SER:OG	2.65	0.54
1:i:389:THR:H	1:i:392:ASN:ND2	2.06	0.54
1:j:446:HIS:ND1	1:j:468:ILE:HG12	2.23	0.54
1:m:700:ARG:HD3	1:m:704:GLU:OE2	2.08	0.54
1:n:289:CYS:SG	1:n:361:SER:OG	2.65	0.54
1:w:389:THR:H	1:w:392:ASN:ND2	2.06	0.54
1:8:700:ARG:HD3	1:8:704:GLU:OE2	2.08	0.54
1:B:700:ARG:HD3	1:B:704:GLU:OE2	2.08	0.53
1:D:476:TYR:HE2	1:N:358:GLN:HE21	1.56	0.53
1:F:515:HIS:CE1	1:Q:585:GLN:HB2	2.43	0.53
1:G:446:HIS:ND1	1:G:468:ILE:HG12	2.23	0.53
1:O:358:GLN:HE21	1:n:476:TYR:HE2	1.56	0.53
1:O:515:HIS:CE1	1:n:585:GLN:HB2	2.43	0.53
1:Q:289:CYS:SG	1:Q:361:SER:OG	2.65	0.53
1:R:389:THR:H	1:R:392:ASN:ND2	2.06	0.53
1:R:700:ARG:HD3	1:R:704:GLU:OE2	2.08	0.53
1:Y:389:THR:H	1:Y:392:ASN:ND2	2.06	0.53
1:e:700:ARG:HD3	1:e:704:GLU:OE2	2.08	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:f:515:HIS:CE1	1:g:585:GLN:HB2	2.43	0.53
1:i:358:GLN:HE21	1:k:476:TYR:HE2	1.56	0.53
1:q:476:TYR:HE2	1:r:358:GLN:HE21	1.56	0.53
1:q:585:GLN:HB2	1:r:515:HIS:CE1	2.43	0.53
1:q:700:ARG:HD3	1:q:704:GLU:OE2	2.08	0.53
1:t:289:CYS:SG	1:t:361:SER:OG	2.65	0.53
1:x:585:GLN:HB2	1:y:515:HIS:CE1	2.43	0.53
1:1:700:ARG:HD3	1:1:704:GLU:OE2	2.08	0.53
1:7:389:THR:H	1:7:392:ASN:ND2	2.06	0.53
1:F:358:GLN:HE21	1:Q:476:TYR:HE2	1.57	0.53
1:F:389:THR:H	1:F:392:ASN:ND2	2.06	0.53
1:K:585:GLN:HB2	1:a:515:HIS:CE1	2.43	0.53
1:R:476:TYR:HE2	1:S:358:GLN:HE21	1.56	0.53
1:R:585:GLN:HB2	1:S:515:HIS:CE1	2.43	0.53
1:S:389:THR:H	1:S:392:ASN:ND2	2.06	0.53
1:T:476:TYR:HE2	1:d:358:GLN:HE21	1.57	0.53
1:V:700:ARG:HD3	1:V:704:GLU:OE2	2.08	0.53
1:c:358:GLN:HE21	1:p:476:TYR:HE2	1.57	0.53
1:d:476:TYR:HE2	1:l:358:GLN:HE21	1.56	0.53
1:m:476:TYR:HE2	1:n:358:GLN:HE21	1.57	0.53
1:n:700:ARG:HD3	1:n:704:GLU:OE2	2.08	0.53
1:t:389:THR:H	1:t:392:ASN:ND2	2.06	0.53
1:t:446:HIS:ND1	1:t:468:ILE:HG12	2.23	0.53
1:w:358:GLN:HE21	1:y:476:TYR:HE2	1.56	0.53
1:w:430:GLN:HE22	1:x:351:PRO:HB3	1.72	0.53
1:x:289:CYS:SG	1:x:361:SER:OG	2.65	0.53
1:x:476:TYR:HE2	1:y:358:GLN:HE21	1.57	0.53
1:3:515:HIS:CE1	1:4:585:GLN:HB2	2.43	0.53
1:6:430:GLN:HE22	1:7:351:PRO:HB3	1.71	0.53
1:B:621:GLN:NE2	1:B:731:ARG:O	2.42	0.53
1:E:358:GLN:HE21	1:F:476:TYR:HE2	1.56	0.53
1:E:621:GLN:NE2	1:E:731:ARG:O	2.42	0.53
1:H:700:ARG:HD3	1:H:704:GLU:OE2	2.08	0.53
1:J:700:ARG:HD3	1:J:704:GLU:OE2	2.08	0.53
1:M:700:ARG:HD3	1:M:704:GLU:OE2	2.08	0.53
1:V:476:TYR:HE2	1:e:358:GLN:HE21	1.57	0.53
1:b:389:THR:H	1:b:392:ASN:ND2	2.06	0.53
1:d:700:ARG:HD3	1:d:704:GLU:OE2	2.08	0.53
1:g:389:THR:H	1:g:392:ASN:ND2	2.06	0.53
1:h:389:THR:H	1:h:392:ASN:ND2	2.06	0.53
1:m:389:THR:H	1:m:392:ASN:ND2	2.06	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:p:700:ARG:HD3	1:p:704:GLU:OE2	2.08	0.53
1:r:389:THR:H	1:r:392:ASN:ND2	2.06	0.53
1:r:700:ARG:HD3	1:r:704:GLU:OE2	2.08	0.53
1:w:621:GLN:NE2	1:w:731:ARG:O	2.42	0.53
1:y:389:THR:H	1:y:392:ASN:ND2	2.06	0.53
1:7:700:ARG:HD3	1:7:704:GLU:OE2	2.08	0.53
1:C:389:THR:H	1:C:392:ASN:ND2	2.06	0.53
1:D:446:HIS:ND1	1:D:468:ILE:HG12	2.23	0.53
1:E:430:GLN:HE22	1:Q:351:PRO:HB3	1.72	0.53
1:G:389:THR:H	1:G:392:ASN:ND2	2.06	0.53
1:G:621:GLN:NE2	1:G:731:ARG:O	2.42	0.53
1:M:389:THR:H	1:M:392:ASN:ND2	2.06	0.53
1:O:446:HIS:ND1	1:O:468:ILE:HG12	2.23	0.53
1:O:621:GLN:NE2	1:O:731:ARG:O	2.42	0.53
1:Q:700:ARG:HD3	1:Q:704:GLU:OE2	2.08	0.53
1:R:515:HIS:CE1	1:U:585:GLN:HB2	2.43	0.53
1:S:700:ARG:HD3	1:S:704:GLU:OE2	2.08	0.53
1:T:389:THR:H	1:T:392:ASN:ND2	2.06	0.53
1:U:389:THR:H	1:U:392:ASN:ND2	2.06	0.53
1:V:621:GLN:NE2	1:V:731:ARG:O	2.42	0.53
1:Y:700:ARG:HD3	1:Y:704:GLU:OE2	2.08	0.53
1:d:621:GLN:NE2	1:d:731:ARG:O	2.42	0.53
1:f:389:THR:H	1:f:392:ASN:ND2	2.06	0.53
1:f:476:TYR:HE2	1:h:358:GLN:HE21	1.56	0.53
1:h:700:ARG:HD3	1:h:704:GLU:OE2	2.08	0.53
1:i:700:ARG:HD3	1:i:704:GLU:OE2	2.08	0.53
1:l:446:HIS:ND1	1:l:468:ILE:HG12	2.23	0.53
1:l:621:GLN:NE2	1:l:731:ARG:O	2.42	0.53
1:n:621:GLN:NE2	1:n:731:ARG:O	2.42	0.53
1:p:621:GLN:NE2	1:p:731:ARG:O	2.42	0.53
1:s:700:ARG:HD3	1:s:704:GLU:OE2	2.08	0.53
1:t:621:GLN:NE2	1:t:731:ARG:O	2.42	0.53
1:1:621:GLN:NE2	1:1:731:ARG:O	2.42	0.53
1:2:533:THR:CG2	1:2:569:GLU:H	2.22	0.53
1:2:700:ARG:HD3	1:2:704:GLU:OE2	2.08	0.53
1:5:700:ARG:HD3	1:5:704:GLU:OE2	2.08	0.53
1:A:700:ARG:HD3	1:A:704:GLU:OE2	2.08	0.53
1:C:621:GLN:NE2	1:C:731:ARG:O	2.42	0.53
1:D:585:GLN:HB2	1:N:515:HIS:CE1	2.43	0.53
1:E:515:HIS:CE1	1:F:585:GLN:HB2	2.43	0.53
1:E:533:THR:CG2	1:E:569:GLU:H	2.22	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:533:THR:CG2	1:J:569:GLU:H	2.22	0.53
1:K:358:GLN:HE21	1:8:476:TYR:HE2	1.57	0.53
1:K:389:THR:H	1:K:392:ASN:ND2	2.06	0.53
1:M:358:GLN:HE21	1:b:476:TYR:HE2	1.56	0.53
1:M:533:THR:CG2	1:M:569:GLU:H	2.22	0.53
1:N:700:ARG:HD3	1:N:704:GLU:OE2	2.08	0.53
1:U:700:ARG:HD3	1:U:704:GLU:OE2	2.08	0.53
1:b:621:GLN:NE2	1:b:731:ARG:O	2.42	0.53
1:c:621:GLN:NE2	1:c:731:ARG:O	2.42	0.53
1:f:621:GLN:NE2	1:f:731:ARG:O	2.42	0.53
1:h:533:THR:CG2	1:h:569:GLU:H	2.22	0.53
1:k:446:HIS:ND1	1:k:468:ILE:HG12	2.23	0.53
1:q:621:GLN:NE2	1:q:731:ARG:O	2.42	0.53
1:r:446:HIS:ND1	1:r:468:ILE:HG12	2.23	0.53
1:w:515:HIS:CE1	1:y:585:GLN:HB2	2.43	0.53
1:w:533:THR:CG2	1:w:569:GLU:H	2.22	0.53
1:4:389:THR:H	1:4:392:ASN:ND2	2.06	0.53
1:H:621:GLN:NE2	1:H:731:ARG:O	2.42	0.53
1:I:621:GLN:NE2	1:I:731:ARG:O	2.42	0.53
1:I:682:THR:HG21	1:J:661:PRO:HD2	1.91	0.53
1:L:308:PRO:HD3	1:L:644:PHE:CE2	2.44	0.53
1:L:700:ARG:HD3	1:L:704:GLU:OE2	2.08	0.53
1:R:621:GLN:NE2	1:R:731:ARG:O	2.42	0.53
1:S:446:HIS:ND1	1:S:468:ILE:HG12	2.23	0.53
1:S:476:TYR:HE2	1:U:358:GLN:HE21	1.56	0.53
1:T:621:GLN:NE2	1:T:731:ARG:O	2.42	0.53
1:V:533:THR:CG2	1:V:569:GLU:H	2.22	0.53
1:Z:308:PRO:HD3	1:Z:644:PHE:CE2	2.44	0.53
1:Z:358:GLN:HE21	1:3:476:TYR:HE2	1.56	0.53
1:Z:476:TYR:HE2	1:4:358:GLN:HE21	1.57	0.53
1:e:621:GLN:NE2	1:e:731:ARG:O	2.42	0.53
1:f:533:THR:CG2	1:f:569:GLU:H	2.22	0.53
1:g:621:GLN:NE2	1:g:731:ARG:O	2.42	0.53
1:i:515:HIS:CE1	1:k:585:GLN:HB2	2.43	0.53
1:j:476:TYR:HE2	1:k:358:GLN:HE21	1.56	0.53
1:m:621:GLN:NE2	1:m:731:ARG:O	2.42	0.53
1:p:533:THR:CG2	1:p:569:GLU:H	2.22	0.53
1:q:515:HIS:CE1	1:s:585:GLN:HB2	2.43	0.53
1:r:476:TYR:HE2	1:s:358:GLN:HE21	1.56	0.53
1:s:389:THR:H	1:s:392:ASN:ND2	2.06	0.53
1:u:621:GLN:NE2	1:u:731:ARG:O	2.42	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:u:682:THR:HG21	1:2:661:PRO:HD2	1.91	0.53
1:v:700:ARG:HD3	1:v:704:GLU:OE2	2.08	0.53
1:x:700:ARG:HD3	1:x:704:GLU:OE2	2.08	0.53
1:y:533:THR:CG2	1:y:569:GLU:H	2.22	0.53
1:z:308:PRO:HD3	1:z:644:PHE:CE2	2.44	0.53
1:3:446:HIS:ND1	1:3:468:ILE:HG12	2.23	0.53
1:4:621:GLN:NE2	1:4:731:ARG:O	2.42	0.53
1:8:308:PRO:HD3	1:8:644:PHE:CE2	2.44	0.53
1:8:446:HIS:ND1	1:8:468:ILE:HG12	2.23	0.53
1:E:585:GLN:HB2	1:Q:515:HIS:CE1	2.43	0.53
1:F:308:PRO:HD3	1:F:644:PHE:CE2	2.44	0.53
1:F:533:THR:CG2	1:F:569:GLU:H	2.22	0.53
1:J:585:GLN:HB2	1:L:515:HIS:CE1	2.43	0.53
1:K:621:GLN:NE2	1:K:731:ARG:O	2.42	0.53
1:M:446:HIS:ND1	1:M:468:ILE:HG12	2.23	0.53
1:M:621:GLN:NE2	1:M:731:ARG:O	2.42	0.53
1:O:389:THR:H	1:O:392:ASN:ND2	2.06	0.53
1:T:273:ASN:HD22	1:T:388:GLN:HG3	1.74	0.53
1:T:682:THR:HG21	1:U:661:PRO:HD2	1.91	0.53
1:W:476:TYR:HE2	1:Y:358:GLN:HE21	1.56	0.53
1:Y:533:THR:CG2	1:Y:569:GLU:H	2.22	0.53
1:Z:446:HIS:ND1	1:Z:468:ILE:HG12	2.23	0.53
1:a:476:TYR:HE2	1:8:358:GLN:HE21	1.56	0.53
1:b:533:THR:CG2	1:b:569:GLU:H	2.22	0.53
1:e:446:HIS:ND1	1:e:468:ILE:HG12	2.23	0.53
1:l:389:THR:H	1:l:392:ASN:ND2	2.06	0.53
1:m:273:ASN:HD22	1:m:388:GLN:HG3	1.74	0.53
1:m:682:THR:HG21	1:s:661:PRO:HD2	1.91	0.53
1:q:446:HIS:ND1	1:q:468:ILE:HG12	2.23	0.53
1:u:446:HIS:ND1	1:u:468:ILE:HG12	2.23	0.53
1:y:308:PRO:HD3	1:y:644:PHE:CE2	2.44	0.53
1:z:661:PRO:HD2	1:4:682:THR:HG21	1.90	0.53
1:z:700:ARG:HD3	1:z:704:GLU:OE2	2.08	0.53
1:5:621:GLN:NE2	1:5:731:ARG:O	2.42	0.53
1:7:533:THR:CG2	1:7:569:GLU:H	2.22	0.53
1:A:308:PRO:HD3	1:A:644:PHE:CE2	2.44	0.53
1:A:533:THR:CG2	1:A:569:GLU:H	2.22	0.53
1:B:308:PRO:HD3	1:B:644:PHE:CE2	2.44	0.53
1:B:533:THR:CG2	1:B:569:GLU:H	2.22	0.53
1:E:308:PRO:HD3	1:E:644:PHE:CE2	2.44	0.53
1:F:621:GLN:NE2	1:F:731:ARG:O	2.42	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:273:ASN:HD22	1:J:388:GLN:HG3	1.74	0.53
1:N:446:HIS:ND1	1:N:468:ILE:HG12	2.23	0.53
1:O:661:PRO:HD2	1:d:682:THR:HG21	1.91	0.53
1:P:682:THR:HG21	1:Q:661:PRO:HD2	1.91	0.53
1:R:446:HIS:ND1	1:R:468:ILE:HG12	2.23	0.53
1:S:621:GLN:NE2	1:S:731:ARG:O	2.42	0.53
1:S:682:THR:HG21	1:d:661:PRO:HD2	1.91	0.53
1:U:308:PRO:HD3	1:U:644:PHE:CE2	2.44	0.53
1:W:533:THR:CG2	1:W:569:GLU:H	2.22	0.53
1:X:308:PRO:HD3	1:X:644:PHE:CE2	2.44	0.53
1:Y:308:PRO:HD3	1:Y:644:PHE:CE2	2.44	0.53
1:a:446:HIS:ND1	1:a:468:ILE:HG12	2.23	0.53
1:b:308:PRO:HD3	1:b:644:PHE:CE2	2.44	0.53
1:c:446:HIS:ND1	1:c:468:ILE:HG12	2.23	0.53
1:d:308:PRO:HD3	1:d:644:PHE:CE2	2.44	0.53
1:f:308:PRO:HD3	1:f:644:PHE:CE2	2.44	0.53
1:h:446:HIS:ND1	1:h:468:ILE:HG12	2.23	0.53
1:h:621:GLN:NE2	1:h:731:ARG:O	2.42	0.53
1:i:446:HIS:ND1	1:i:468:ILE:HG12	2.23	0.53
1:k:621:GLN:NE2	1:k:731:ARG:O	2.42	0.53
1:k:700:ARG:HD3	1:k:704:GLU:OE2	2.08	0.53
1:n:308:PRO:HD3	1:n:644:PHE:CE2	2.44	0.53
1:n:661:PRO:HD2	1:r:682:THR:HG21	1.91	0.53
1:o:308:PRO:HD3	1:o:644:PHE:CE2	2.44	0.53
1:s:308:PRO:HD3	1:s:644:PHE:CE2	2.44	0.53
1:t:585:GLN:HB2	1:u:515:HIS:CE1	2.43	0.53
1:w:585:GLN:HB2	1:x:515:HIS:CE1	2.43	0.53
1:y:621:GLN:NE2	1:y:731:ARG:O	2.42	0.53
1:z:515:HIS:CE1	1:2:585:GLN:HB2	2.43	0.53
1:1:308:PRO:HD3	1:1:644:PHE:CE2	2.44	0.53
1:1:533:THR:CG2	1:1:569:GLU:H	2.22	0.53
1:6:476:TYR:HE2	1:7:358:GLN:HE21	1.56	0.53
1:6:533:THR:CG2	1:6:569:GLU:H	2.22	0.53
1:A:661:PRO:HD2	1:B:682:THR:HG21	1.91	0.53
1:D:358:GLN:HE21	1:P:476:TYR:HE2	1.56	0.53
1:D:533:THR:CG2	1:D:569:GLU:H	2.22	0.53
1:E:273:ASN:HD22	1:E:388:GLN:HG3	1.74	0.53
1:F:700:ARG:HD3	1:F:704:GLU:OE2	2.08	0.53
1:G:273:ASN:HD22	1:G:388:GLN:HG3	1.74	0.53
1:G:585:GLN:HB2	1:I:515:HIS:CE1	2.43	0.53
1:I:446:HIS:ND1	1:I:468:ILE:HG12	2.23	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:533:THR:CG2	1:L:569:GLU:H	2.22	0.53
1:M:661:PRO:HD2	1:c:682:THR:HG21	1.91	0.53
1:O:700:ARG:HD3	1:O:704:GLU:OE2	2.08	0.53
1:P:533:THR:CG2	1:P:569:GLU:H	2.22	0.53
1:Q:533:THR:CG2	1:Q:569:GLU:H	2.22	0.53
1:S:308:PRO:HD3	1:S:644:PHE:CE2	2.44	0.53
1:T:533:THR:CG2	1:T:569:GLU:H	2.22	0.53
1:U:621:GLN:NE2	1:U:731:ARG:O	2.42	0.53
1:V:515:HIS:CE1	1:X:585:GLN:HB2	2.43	0.53
1:X:533:THR:CG2	1:X:569:GLU:H	2.22	0.53
1:d:273:ASN:HD22	1:d:388:GLN:HG3	1.74	0.53
1:i:533:THR:CG2	1:i:569:GLU:H	2.22	0.53
1:j:682:THR:HG21	1:x:661:PRO:HD2	1.91	0.53
1:k:533:THR:CG2	1:k:569:GLU:H	2.22	0.53
1:l:661:PRO:HD2	1:n:682:THR:HG21	1.91	0.53
1:l:700:ARG:HD3	1:l:704:GLU:OE2	2.08	0.53
1:m:533:THR:CG2	1:m:569:GLU:H	2.22	0.53
1:n:273:ASN:HD22	1:n:388:GLN:HG3	1.74	0.53
1:o:585:GLN:HB2	1:p:515:HIS:CE1	2.43	0.53
1:r:621:GLN:NE2	1:r:731:ARG:O	2.42	0.53
1:v:308:PRO:HD3	1:v:644:PHE:CE2	2.44	0.53
1:v:533:THR:CG2	1:v:569:GLU:H	2.22	0.53
1:w:273:ASN:HD22	1:w:388:GLN:HG3	1.74	0.53
1:w:308:PRO:HD3	1:w:644:PHE:CE2	2.44	0.53
1:x:533:THR:CG2	1:x:569:GLU:H	2.22	0.53
1:z:273:ASN:HD22	1:z:388:GLN:HG3	1.74	0.53
1:2:273:ASN:HD22	1:2:388:GLN:HG3	1.74	0.53
1:7:308:PRO:HD3	1:7:644:PHE:CE2	2.44	0.53
1:A:389:THR:H	1:A:392:ASN:ND2	2.06	0.53
1:C:661:PRO:HD2	1:D:682:THR:HG21	1.91	0.53
1:D:621:GLN:NE2	1:D:731:ARG:O	2.42	0.53
1:D:700:ARG:HD3	1:D:704:GLU:OE2	2.08	0.53
1:F:661:PRO:HD2	1:R:682:THR:HG21	1.91	0.53
1:H:273:ASN:HD22	1:H:388:GLN:HG3	1.74	0.53
1:J:621:GLN:NE2	1:J:731:ARG:O	2.42	0.53
1:J:682:THR:HG21	1:a:661:PRO:HD2	1.91	0.53
1:L:273:ASN:HD22	1:L:388:GLN:HG3	1.74	0.53
1:N:273:ASN:HD22	1:N:388:GLN:HG3	1.74	0.53
1:N:308:PRO:HD3	1:N:644:PHE:CE2	2.44	0.53
1:O:476:TYR:HE2	1:m:358:GLN:HE21	1.57	0.53
1:T:308:PRO:HD3	1:T:644:PHE:CE2	2.44	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:T:358:GLN:HE21	1:l:476:TYR:HE2	1.57	0.53
1:Z:621:GLN:NE2	1:Z:731:ARG:O	2.42	0.53
1:e:682:THR:HG21	1:h:661:PRO:HD2	1.91	0.53
1:g:358:GLN:HE21	1:h:476:TYR:HE2	1.57	0.53
1:g:661:PRO:HD2	1:k:682:THR:HG21	1.91	0.53
1:i:273:ASN:HD22	1:i:388:GLN:HG3	1.74	0.53
1:j:533:THR:CG2	1:j:569:GLU:H	2.22	0.53
1:o:533:THR:CG2	1:o:569:GLU:H	2.22	0.53
1:q:682:THR:HG21	1:y:661:PRO:HD2	1.91	0.53
1:r:308:PRO:HD3	1:r:644:PHE:CE2	2.44	0.53
1:s:273:ASN:HD22	1:s:388:GLN:HG3	1.74	0.53
1:s:621:GLN:NE2	1:s:731:ARG:O	2.42	0.53
1:t:308:PRO:HD3	1:t:644:PHE:CE2	2.44	0.53
1:v:273:ASN:HD22	1:v:388:GLN:HG3	1.74	0.53
1:w:700:ARG:HD3	1:w:704:GLU:OE2	2.08	0.53
1:y:700:ARG:HD3	1:y:704:GLU:OE2	2.08	0.53
1:z:533:THR:CG2	1:z:569:GLU:H	2.22	0.53
1:4:533:THR:CG2	1:4:569:GLU:H	2.22	0.53
1:4:700:ARG:HD3	1:4:704:GLU:OE2	2.08	0.53
1:8:621:GLN:NE2	1:8:731:ARG:O	2.42	0.53
1:A:273:ASN:HD22	1:A:388:GLN:HG3	1.74	0.52
1:A:682:THR:HG21	1:E:661:PRO:HD2	1.91	0.52
1:E:700:ARG:HD3	1:E:704:GLU:OE2	2.08	0.52
1:K:533:THR:CG2	1:K:569:GLU:H	2.22	0.52
1:N:533:THR:CG2	1:N:569:GLU:H	2.22	0.52
1:R:308:PRO:HD3	1:R:644:PHE:CE2	2.44	0.52
1:R:358:GLN:HE21	1:U:476:TYR:HE2	1.56	0.52
1:U:273:ASN:HD22	1:U:388:GLN:HG3	1.74	0.52
1:b:273:ASN:HD22	1:b:388:GLN:HG3	1.74	0.52
1:f:273:ASN:HD22	1:f:388:GLN:HG3	1.74	0.52
1:g:308:PRO:HD3	1:g:644:PHE:CE2	2.44	0.52
1:g:446:HIS:ND1	1:g:468:ILE:HG12	2.23	0.52
1:h:682:THR:HG21	1:i:661:PRO:HD2	1.91	0.52
1:i:308:PRO:HD3	1:i:644:PHE:CE2	2.44	0.52
1:m:308:PRO:HD3	1:m:644:PHE:CE2	2.44	0.52
1:n:533:THR:CG2	1:n:569:GLU:H	2.22	0.52
1:o:621:GLN:NE2	1:o:731:ARG:O	2.42	0.52
1:t:273:ASN:HD22	1:t:388:GLN:HG3	1.74	0.52
1:v:389:THR:H	1:v:392:ASN:ND2	2.06	0.52
1:v:682:THR:HG21	1:w:661:PRO:HD2	1.91	0.52
1:y:273:ASN:HD22	1:y:388:GLN:HG3	1.74	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:2:621:GLN:NE2	1:2:731:ARG:O	2.42	0.52
1:5:273:ASN:HD22	1:5:388:GLN:HG3	1.74	0.52
1:C:308:PRO:HD3	1:C:644:PHE:CE2	2.44	0.52
1:C:358:GLN:HE21	1:M:476:TYR:HE2	1.57	0.52
1:C:446:HIS:ND1	1:C:468:ILE:HG12	2.23	0.52
1:F:273:ASN:HD22	1:F:388:GLN:HG3	1.74	0.52
1:G:308:PRO:HD3	1:G:644:PHE:CE2	2.44	0.52
1:K:700:ARG:HD3	1:K:704:GLU:OE2	2.08	0.52
1:L:621:GLN:NE2	1:L:731:ARG:O	2.42	0.52
1:M:682:THR:HG21	1:N:661:PRO:HD2	1.91	0.52
1:N:621:GLN:NE2	1:N:731:ARG:O	2.42	0.52
1:O:351:PRO:HB3	1:n:430:GLN:NE2	2.25	0.52
1:O:682:THR:HG21	1:P:661:PRO:HD2	1.91	0.52
1:d:430:GLN:NE2	1:l:351:PRO:HB3	2.25	0.52
1:d:533:THR:CG2	1:d:569:GLU:H	2.22	0.52
1:o:476:TYR:HE2	1:p:358:GLN:HE21	1.57	0.52
1:2:682:THR:HG21	1:3:661:PRO:HD2	1.91	0.52
1:6:308:PRO:HD3	1:6:644:PHE:CE2	2.44	0.52
1:E:351:PRO:HB3	1:F:430:GLN:NE2	2.25	0.52
1:G:700:ARG:HD3	1:G:704:GLU:OE2	2.08	0.52
1:H:682:THR:HG21	1:I:661:PRO:HD2	1.91	0.52
1:R:430:GLN:NE2	1:S:351:PRO:HB3	2.25	0.52
1:V:358:GLN:HE21	1:X:476:TYR:HE2	1.57	0.52
1:V:661:PRO:HD2	1:W:682:THR:HG21	1.91	0.52
1:X:621:GLN:NE2	1:X:731:ARG:O	2.42	0.52
1:Y:621:GLN:NE2	1:Y:731:ARG:O	2.42	0.52
1:a:273:ASN:HD22	1:a:388:GLN:HG3	1.74	0.52
1:i:621:GLN:NE2	1:i:731:ARG:O	2.42	0.52
1:j:661:PRO:HD2	1:l:682:THR:HG21	1.91	0.52
1:p:308:PRO:HD3	1:p:644:PHE:CE2	2.44	0.52
1:p:661:PRO:HD2	1:6:682:THR:HG21	1.91	0.52
1:q:273:ASN:HD22	1:q:388:GLN:HG3	1.74	0.52
1:q:308:PRO:HD3	1:q:644:PHE:CE2	2.44	0.52
1:q:358:GLN:HE21	1:s:476:TYR:HE2	1.56	0.52
1:t:700:ARG:HD3	1:t:704:GLU:OE2	2.08	0.52
1:v:661:PRO:HD2	1:l:682:THR:HG21	1.91	0.52
1:w:351:PRO:HB3	1:y:430:GLN:NE2	2.25	0.52
1:z:621:GLN:NE2	1:z:731:ARG:O	2.42	0.52
1:K:273:ASN:HD22	1:K:388:GLN:HG3	1.74	0.52
1:K:682:THR:HG21	1:L:661:PRO:HD2	1.91	0.52
1:M:273:ASN:HD22	1:M:388:GLN:HG3	1.74	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:V:308:PRO:HD3	1:V:644:PHE:CE2	2.44	0.52
1:W:308:PRO:HD3	1:W:644:PHE:CE2	2.44	0.52
1:g:682:THR:HG21	1:1:661:PRO:HD2	1.91	0.52
1:i:430:GLN:NE2	1:j:351:PRO:HB3	2.25	0.52
1:p:273:ASN:HD22	1:p:388:GLN:HG3	1.74	0.52
1:q:430:GLN:NE2	1:r:351:PRO:HB3	2.25	0.52
1:q:533:THR:CG2	1:q:569:GLU:H	2.22	0.52
1:u:273:ASN:HD22	1:u:388:GLN:HG3	1.74	0.52
1:u:476:TYR:HE2	1:v:358:GLN:HE21	1.57	0.52
1:u:661:PRO:HD2	1:5:682:THR:HG21	1.91	0.52
1:u:700:ARG:HD3	1:u:704:GLU:OE2	2.08	0.52
1:3:273:ASN:HD22	1:3:388:GLN:HG3	1.74	0.52
1:3:358:GLN:HE21	1:4:476:TYR:HE2	1.57	0.52
1:7:621:GLN:NE2	1:7:731:ARG:O	2.42	0.52
1:H:430:GLN:NE2	1:W:351:PRO:HB3	2.25	0.52
1:I:273:ASN:HD22	1:I:388:GLN:HG3	1.74	0.52
1:I:533:THR:CG2	1:I:569:GLU:H	2.22	0.52
1:J:476:TYR:HE2	1:L:358:GLN:HE21	1.56	0.52
1:K:308:PRO:HD3	1:K:644:PHE:CE2	2.44	0.52
1:K:476:TYR:HE2	1:a:358:GLN:HE21	1.57	0.52
1:N:430:GLN:NE2	1:P:351:PRO:HB3	2.25	0.52
1:P:621:GLN:NE2	1:P:731:ARG:O	2.42	0.52
1:Q:308:PRO:HD3	1:Q:644:PHE:CE2	2.44	0.52
1:R:273:ASN:HD22	1:R:388:GLN:HG3	1.74	0.52
1:R:533:THR:CG2	1:R:569:GLU:H	2.22	0.52
1:V:273:ASN:HD22	1:V:388:GLN:HG3	1.74	0.52
1:X:358:GLN:HE21	1:e:476:TYR:HE2	1.56	0.52
1:a:308:PRO:HD3	1:a:644:PHE:CE2	2.44	0.52
1:c:476:TYR:HE2	1:o:358:GLN:HE21	1.56	0.52
1:h:273:ASN:HD22	1:h:388:GLN:HG3	1.74	0.52
1:j:621:GLN:NE2	1:j:731:ARG:O	2.42	0.52
1:l:308:PRO:HD3	1:l:644:PHE:CE2	2.44	0.52
1:u:308:PRO:HD3	1:u:644:PHE:CE2	2.44	0.52
1:1:476:TYR:HE2	1:2:358:GLN:HE21	1.56	0.52
1:2:308:PRO:HD3	1:2:644:PHE:CE2	2.44	0.52
1:5:358:GLN:HE21	1:7:476:TYR:HE2	1.56	0.52
1:5:430:GLN:NE2	1:6:351:PRO:HB3	2.25	0.52
1:A:358:GLN:HE21	1:I:476:TYR:HE2	1.57	0.52
1:B:476:TYR:HE2	1:J:358:GLN:HE21	1.56	0.52
1:B:661:PRO:HD2	1:C:682:THR:HG21	1.91	0.52
1:D:430:GLN:NE2	1:N:351:PRO:HB3	2.25	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:430:GLN:NE2	1:I:351:PRO:HB3	2.25	0.52
1:G:682:THR:HG21	1:W:661:PRO:HD2	1.92	0.52
1:H:358:GLN:HE21	1:Y:476:TYR:HE2	1.56	0.52
1:I:308:PRO:HD3	1:I:644:PHE:CE2	2.44	0.52
1:I:700:ARG:HD3	1:I:704:GLU:OE2	2.08	0.52
1:J:308:PRO:HD3	1:J:644:PHE:CE2	2.44	0.52
1:O:308:PRO:HD3	1:O:644:PHE:CE2	2.44	0.52
1:P:308:PRO:HD3	1:P:644:PHE:CE2	2.44	0.52
1:R:351:PRO:HB3	1:U:430:GLN:NE2	2.25	0.52
1:X:661:PRO:HD2	1:f:682:THR:HG21	1.91	0.52
1:Z:661:PRO:HD2	1:a:682:THR:HG21	1.91	0.52
1:b:682:THR:HG21	1:o:661:PRO:HD2	1.91	0.52
1:i:351:PRO:HB3	1:k:430:GLN:NE2	2.25	0.52
1:j:308:PRO:HD3	1:j:644:PHE:CE2	2.44	0.52
1:q:351:PRO:HB3	1:s:430:GLN:NE2	2.25	0.52
1:s:533:THR:CG2	1:s:569:GLU:H	2.22	0.52
1:t:351:PRO:HB3	1:v:430:GLN:NE2	2.25	0.52
1:u:533:THR:CG2	1:u:569:GLU:H	2.22	0.52
1:x:308:PRO:HD3	1:x:644:PHE:CE2	2.44	0.52
1:1:273:ASN:HD22	1:1:388:GLN:HG3	1.74	0.52
1:4:273:ASN:HD22	1:4:388:GLN:HG3	1.74	0.52
1:4:308:PRO:HD3	1:4:644:PHE:CE2	2.44	0.52
1:5:533:THR:CG2	1:5:569:GLU:H	2.22	0.52
1:B:273:ASN:HD22	1:B:388:GLN:HG3	1.74	0.52
1:B:358:GLN:HE21	1:L:476:TYR:HE2	1.56	0.52
1:D:273:ASN:HD22	1:D:388:GLN:HG3	1.74	0.52
1:F:682:THR:HG21	1:G:661:PRO:HD2	1.91	0.52
1:M:351:PRO:HB3	1:b:430:GLN:NE2	2.25	0.52
1:U:533:THR:CG2	1:U:569:GLU:H	2.22	0.52
1:X:682:THR:HG21	1:Y:661:PRO:HD2	1.91	0.52
1:Z:533:THR:CG2	1:Z:569:GLU:H	2.22	0.52
1:a:700:ARG:HD3	1:a:704:GLU:OE2	2.08	0.52
1:c:308:PRO:HD3	1:c:644:PHE:CE2	2.44	0.52
1:c:533:THR:CG2	1:c:569:GLU:H	2.22	0.52
1:f:351:PRO:HB3	1:g:430:GLN:NE2	2.25	0.52
1:f:358:GLN:HE21	1:g:476:TYR:HE2	1.57	0.52
1:f:430:GLN:NE2	1:h:351:PRO:HB3	2.25	0.52
1:j:430:GLN:NE2	1:k:351:PRO:HB3	2.25	0.52
1:o:682:THR:HG21	1:7:661:PRO:HD2	1.91	0.52
1:p:682:THR:HG21	1:q:661:PRO:HD2	1.91	0.52
1:t:430:GLN:NE2	1:u:351:PRO:HB3	2.25	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:t:682:THR:HG21	1:6:661:PRO:HD2	1.91	0.52
1:u:430:GLN:NE2	1:v:351:PRO:HB3	2.25	0.52
1:z:476:TYR:HE2	1:1:358:GLN:HE21	1.56	0.52
1:3:308:PRO:HD3	1:3:644:PHE:CE2	2.44	0.52
1:3:682:THR:HG21	1:8:661:PRO:HD2	1.91	0.52
1:5:308:PRO:HD3	1:5:644:PHE:CE2	2.44	0.52
1:A:304:TRP:HZ2	1:A:698:SER:HB3	1.75	0.52
1:A:430:GLN:NE2	1:G:351:PRO:HB3	2.25	0.52
1:C:430:GLN:NE2	1:b:351:PRO:HB3	2.25	0.52
1:C:476:TYR:HE2	1:b:358:GLN:HE21	1.57	0.52
1:D:279:TRP:NE1	1:D:397:LEU:HB2	2.25	0.52
1:D:351:PRO:HB3	1:P:430:GLN:NE2	2.25	0.52
1:G:533:THR:CG2	1:G:569:GLU:H	2.22	0.52
1:H:533:THR:CG2	1:H:569:GLU:H	2.22	0.52
1:R:661:PRO:HD2	1:V:682:THR:HG21	1.91	0.52
1:e:308:PRO:HD3	1:e:644:PHE:CE2	2.44	0.52
1:e:533:THR:CG2	1:e:569:GLU:H	2.22	0.52
1:g:533:THR:CG2	1:g:569:GLU:H	2.22	0.52
1:k:273:ASN:HD22	1:k:388:GLN:HG3	1.74	0.52
1:k:279:TRP:NE1	1:k:397:LEU:HB2	2.25	0.52
1:k:308:PRO:HD3	1:k:644:PHE:CE2	2.44	0.52
1:v:304:TRP:HZ2	1:v:698:SER:HB3	1.75	0.52
1:v:621:GLN:NE2	1:v:731:ARG:O	2.42	0.52
1:z:430:GLN:NE2	1:1:351:PRO:HB3	2.25	0.52
1:8:533:THR:CG2	1:8:569:GLU:H	2.22	0.52
1:A:621:GLN:NE2	1:A:731:ARG:O	2.42	0.52
1:B:351:PRO:HB3	1:L:430:GLN:NE2	2.25	0.52
1:D:308:PRO:HD3	1:D:644:PHE:CE2	2.44	0.52
1:H:308:PRO:HD3	1:H:644:PHE:CE2	2.44	0.52
1:O:533:THR:CG2	1:O:569:GLU:H	2.22	0.52
1:T:279:TRP:NE1	1:T:397:LEU:HB2	2.25	0.52
1:W:430:GLN:NE2	1:Y:351:PRO:HB3	2.25	0.52
1:W:621:GLN:NE2	1:W:731:ARG:O	2.42	0.52
1:Z:351:PRO:HB3	1:3:430:GLN:NE2	2.25	0.52
1:a:533:THR:CG2	1:a:569:GLU:H	2.22	0.52
1:d:304:TRP:HZ2	1:d:698:SER:HB3	1.75	0.52
1:h:308:PRO:HD3	1:h:644:PHE:CE2	2.44	0.52
1:m:279:TRP:NE1	1:m:397:LEU:HB2	2.25	0.52
1:m:430:GLN:NE2	1:n:351:PRO:HB3	2.25	0.52
1:n:304:TRP:HZ2	1:n:698:SER:HB3	1.75	0.52
1:t:533:THR:CG2	1:t:569:GLU:H	2.22	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:t:661:PRO:HD2	1:y:682:THR:HG21	1.91	0.52
1:z:358:GLN:HE21	1:2:476:TYR:HE2	1.57	0.52
1:3:533:THR:CG2	1:3:569:GLU:H	2.22	0.52
1:3:700:ARG:HD3	1:3:704:GLU:OE2	2.08	0.52
1:5:476:TYR:HE2	1:6:358:GLN:HE21	1.56	0.52
1:6:621:GLN:NE2	1:6:731:ARG:O	2.42	0.52
1:C:533:THR:CG2	1:C:569:GLU:H	2.22	0.52
1:D:304:TRP:HZ2	1:D:698:SER:HB3	1.75	0.52
1:G:279:TRP:NE1	1:G:397:LEU:HB2	2.25	0.52
1:M:308:PRO:HD3	1:M:644:PHE:CE2	2.44	0.52
1:Q:273:ASN:HD22	1:Q:388:GLN:HG3	1.74	0.52
1:Q:621:GLN:NE2	1:Q:731:ARG:O	2.42	0.52
1:Q:682:THR:HG21	1:S:661:PRO:HD2	1.91	0.52
1:T:430:GLN:NE2	1:d:351:PRO:HB3	2.25	0.52
1:U:279:TRP:NE1	1:U:397:LEU:HB2	2.25	0.52
1:V:304:TRP:HZ2	1:V:698:SER:HB3	1.75	0.52
1:a:279:TRP:NE1	1:a:397:LEU:HB2	2.25	0.52
1:c:661:PRO:HD2	1:s:682:THR:HG21	1.91	0.52
1:g:279:TRP:NE1	1:g:397:LEU:HB2	2.25	0.52
1:o:430:GLN:NE2	1:p:351:PRO:HB3	2.25	0.52
1:r:273:ASN:HD22	1:r:388:GLN:HG3	1.74	0.52
1:s:279:TRP:NE1	1:s:397:LEU:HB2	2.25	0.52
1:t:279:TRP:NE1	1:t:397:LEU:HB2	2.25	0.52
1:x:273:ASN:HD22	1:x:388:GLN:HG3	1.74	0.52
1:x:279:TRP:NE1	1:x:397:LEU:HB2	2.25	0.52
1:6:430:GLN:NE2	1:7:351:PRO:HB3	2.25	0.52
1:A:351:PRO:HB3	1:I:430:GLN:NE2	2.25	0.51
1:B:430:GLN:NE2	1:J:351:PRO:HB3	2.25	0.51
1:C:279:TRP:NE1	1:C:397:LEU:HB2	2.25	0.51
1:H:476:TYR:HE2	1:W:358:GLN:HE21	1.56	0.51
1:H:661:PRO:HD2	1:Z:682:THR:HG21	1.91	0.51
1:K:351:PRO:HB3	1:8:430:GLN:NE2	2.25	0.51
1:Q:279:TRP:NE1	1:Q:397:LEU:HB2	2.25	0.51
1:S:304:TRP:HZ2	1:S:698:SER:HB3	1.75	0.51
1:S:533:THR:CG2	1:S:569:GLU:H	2.22	0.51
1:V:351:PRO:HB3	1:X:430:GLN:NE2	2.25	0.51
1:X:279:TRP:NE1	1:X:397:LEU:HB2	2.25	0.51
1:Y:273:ASN:HD22	1:Y:388:GLN:HG3	1.74	0.51
1:Z:273:ASN:HD22	1:Z:388:GLN:HG3	1.74	0.51
1:a:430:GLN:NE2	1:8:351:PRO:HB3	2.25	0.51
1:d:279:TRP:NE1	1:d:397:LEU:HB2	2.25	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:l:533:THR:CG2	1:l:569:GLU:H	2.22	0.51
1:o:279:TRP:NE1	1:o:397:LEU:HB2	2.25	0.51
1:p:304:TRP:HZ2	1:p:698:SER:HB3	1.75	0.51
1:r:661:PRO:HD2	1:x:682:THR:HG21	1.91	0.51
1:1:430:GLN:NE2	1:2:351:PRO:HB3	2.25	0.51
1:2:279:TRP:NE1	1:2:397:LEU:HB2	2.25	0.51
1:3:279:TRP:NE1	1:3:397:LEU:HB2	2.25	0.51
1:5:661:PRO:HD2	1:8:682:THR:HG21	1.91	0.51
1:7:273:ASN:HD22	1:7:388:GLN:HG3	1.74	0.51
1:8:304:TRP:HZ2	1:8:698:SER:HB3	1.75	0.51
1:J:279:TRP:NE1	1:J:397:LEU:HB2	2.25	0.51
1:J:430:GLN:NE2	1:L:351:PRO:HB3	2.25	0.51
1:K:279:TRP:NE1	1:K:397:LEU:HB2	2.25	0.51
1:L:304:TRP:HZ2	1:L:698:SER:HB3	1.75	0.51
1:P:279:TRP:NE1	1:P:397:LEU:HB2	2.25	0.51
1:S:273:ASN:HD22	1:S:388:GLN:HG3	1.74	0.51
1:U:304:TRP:HZ2	1:U:698:SER:HB3	1.75	0.51
1:U:682:THR:HG21	1:e:661:PRO:HD2	1.91	0.51
1:Z:304:TRP:HZ2	1:Z:698:SER:HB3	1.75	0.51
1:c:279:TRP:NE1	1:c:397:LEU:HB2	2.25	0.51
1:j:279:TRP:NE1	1:j:397:LEU:HB2	2.25	0.51
1:k:304:TRP:HZ2	1:k:698:SER:HB3	1.75	0.51
1:n:279:TRP:NE1	1:n:397:LEU:HB2	2.25	0.51
1:o:304:TRP:HZ2	1:o:698:SER:HB3	1.75	0.51
1:r:304:TRP:HZ2	1:r:698:SER:HB3	1.75	0.51
1:r:533:THR:CG2	1:r:569:GLU:H	2.22	0.51
1:x:621:GLN:NE2	1:x:731:ARG:O	2.42	0.51
1:3:351:PRO:HB3	1:4:430:GLN:NE2	2.25	0.51
1:3:621:GLN:NE2	1:3:731:ARG:O	2.42	0.51
1:4:279:TRP:NE1	1:4:397:LEU:HB2	2.25	0.51
1:D:661:PRO:HD2	1:E:682:THR:HG21	1.91	0.51
1:E:430:GLN:NE2	1:Q:351:PRO:HB3	2.25	0.51
1:E:476:TYR:HE2	1:Q:358:GLN:HE21	1.57	0.51
1:H:279:TRP:NE1	1:H:397:LEU:HB2	2.25	0.51
1:K:430:GLN:NE2	1:a:351:PRO:HB3	2.25	0.51
1:N:304:TRP:HZ2	1:N:698:SER:HB3	1.75	0.51
1:X:304:TRP:HZ2	1:X:698:SER:HB3	1.75	0.51
1:a:621:GLN:NE2	1:a:731:ARG:O	2.42	0.51
1:e:279:TRP:NE1	1:e:397:LEU:HB2	2.25	0.51
1:m:304:TRP:HZ2	1:m:698:SER:HB3	1.75	0.51
1:r:279:TRP:NE1	1:r:397:LEU:HB2	2.25	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:s:304:TRP:HZ2	1:s:698:SER:HB3	1.75	0.51
1:u:279:TRP:NE1	1:u:397:LEU:HB2	2.25	0.51
1:w:304:TRP:HZ2	1:w:698:SER:HB3	1.75	0.51
1:w:476:TYR:HE2	1:x:358:GLN:HE21	1.57	0.51
1:5:351:PRO:HB3	1:7:430:GLN:NE2	2.25	0.51
1:8:273:ASN:HD22	1:8:388:GLN:HG3	1.74	0.51
1:A:279:TRP:NE1	1:A:397:LEU:HB2	2.25	0.51
1:E:304:TRP:HZ2	1:E:698:SER:HB3	1.75	0.51
1:I:279:TRP:NE1	1:I:397:LEU:HB2	2.25	0.51
1:N:279:TRP:NE1	1:N:397:LEU:HB2	2.25	0.51
1:S:279:TRP:NE1	1:S:397:LEU:HB2	2.25	0.51
1:S:430:GLN:NE2	1:U:351:PRO:HB3	2.25	0.51
1:T:304:TRP:HZ2	1:T:698:SER:HB3	1.75	0.51
1:T:661:PRO:HD2	1:i:682:THR:HG21	1.91	0.51
1:X:351:PRO:HB3	1:e:430:GLN:NE2	2.25	0.51
1:Z:430:GLN:NE2	1:4:351:PRO:HB3	2.25	0.51
1:i:279:TRP:NE1	1:i:397:LEU:HB2	2.25	0.51
1:i:304:TRP:HZ2	1:i:698:SER:HB3	1.75	0.51
1:k:661:PRO:HD2	1:w:682:THR:HG21	1.91	0.51
1:r:430:GLN:NE2	1:s:351:PRO:HB3	2.25	0.51
1:y:279:TRP:NE1	1:y:397:LEU:HB2	2.25	0.51
1:z:304:TRP:HZ2	1:z:698:SER:HB3	1.75	0.51
1:5:279:TRP:NE1	1:5:397:LEU:HB2	2.25	0.51
1:B:279:TRP:NE1	1:B:397:LEU:HB2	2.25	0.51
1:H:351:PRO:HB3	1:Y:430:GLN:NE2	2.25	0.51
1:O:273:ASN:HD22	1:O:388:GLN:HG3	1.74	0.51
1:P:273:ASN:HD22	1:P:388:GLN:HG3	1.74	0.51
1:R:279:TRP:NE1	1:R:397:LEU:HB2	2.25	0.51
1:W:279:TRP:NE1	1:W:397:LEU:HB2	2.25	0.51
1:Y:682:THR:HG21	1:4:661:PRO:HD2	1.91	0.51
1:Z:279:TRP:NE1	1:Z:397:LEU:HB2	2.25	0.51
1:f:279:TRP:NE1	1:f:397:LEU:HB2	2.25	0.51
1:v:279:TRP:NE1	1:v:397:LEU:HB2	2.25	0.51
1:w:430:GLN:NE2	1:x:351:PRO:HB3	2.25	0.51
1:x:430:GLN:NE2	1:y:351:PRO:HB3	2.25	0.51
1:z:351:PRO:HB3	1:2:430:GLN:NE2	2.25	0.51
1:1:279:TRP:NE1	1:1:397:LEU:HB2	2.25	0.51
1:8:279:TRP:NE1	1:8:397:LEU:HB2	2.25	0.51
1:C:273:ASN:HD22	1:C:388:GLN:HG3	1.74	0.51
1:F:279:TRP:NE1	1:F:397:LEU:HB2	2.25	0.51
1:c:430:GLN:NE2	1:o:351:PRO:HB3	2.25	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:j:273:ASN:HD22	1:j:388:GLN:HG3	1.74	0.51
1:l:279:TRP:NE1	1:l:397:LEU:HB2	2.25	0.51
1:q:279:TRP:NE1	1:q:397:LEU:HB2	2.25	0.51
1:F:351:PRO:HB3	1:Q:430:GLN:NE2	2.25	0.51
1:N:682:THR:HG21	1:m:661:PRO:HD2	1.91	0.51
1:T:351:PRO:HB3	1:l:430:GLN:NE2	2.25	0.51
1:b:279:TRP:NE1	1:b:397:LEU:HB2	2.25	0.51
1:f:304:TRP:HZ2	1:f:698:SER:HB3	1.75	0.51
1:l:273:ASN:HD22	1:l:388:GLN:HG3	1.74	0.51
1:o:273:ASN:HD22	1:o:388:GLN:HG3	1.74	0.51
1:6:279:TRP:NE1	1:6:397:LEU:HB2	2.25	0.51
1:C:351:PRO:HB3	1:M:430:GLN:NE2	2.25	0.51
1:K:383:GLY:H	1:K:519:ASN:ND2	2.09	0.51
1:K:661:PRO:HD2	1:7:682:THR:HG21	1.91	0.51
1:O:279:TRP:NE1	1:O:397:LEU:HB2	2.25	0.51
1:S:383:GLY:H	1:S:519:ASN:ND2	2.09	0.51
1:T:383:GLY:H	1:T:519:ASN:ND2	2.09	0.51
1:V:430:GLN:NE2	1:e:351:PRO:HB3	2.25	0.51
1:b:304:TRP:HZ2	1:b:698:SER:HB3	1.75	0.51
1:c:351:PRO:HB3	1:p:430:GLN:NE2	2.25	0.51
1:g:273:ASN:HD22	1:g:388:GLN:HG3	1.74	0.51
1:m:383:GLY:H	1:m:519:ASN:ND2	2.09	0.51
1:r:383:GLY:H	1:r:519:ASN:ND2	2.09	0.51
1:H:383:GLY:H	1:H:519:ASN:ND2	2.09	0.51
1:L:682:THR:HG21	1:b:661:PRO:HD2	1.91	0.51
1:M:304:TRP:HZ2	1:M:698:SER:HB3	1.75	0.51
1:O:430:GLN:NE2	1:m:351:PRO:HB3	2.25	0.51
1:X:273:ASN:HD22	1:X:388:GLN:HG3	1.74	0.51
1:e:273:ASN:HD22	1:e:388:GLN:HG3	1.74	0.51
1:g:351:PRO:HB3	1:h:430:GLN:NE2	2.25	0.51
1:h:304:TRP:HZ2	1:h:698:SER:HB3	1.75	0.51
1:p:279:TRP:NE1	1:p:397:LEU:HB2	2.25	0.51
1:4:383:GLY:H	1:4:519:ASN:ND2	2.09	0.51
1:5:383:GLY:H	1:5:519:ASN:ND2	2.09	0.51
1:7:279:TRP:NE1	1:7:397:LEU:HB2	2.25	0.51
1:G:383:GLY:H	1:G:519:ASN:ND2	2.09	0.51
1:M:279:TRP:NE1	1:M:397:LEU:HB2	2.25	0.51
1:V:279:TRP:NE1	1:V:397:LEU:HB2	2.25	0.51
1:V:383:GLY:H	1:V:519:ASN:ND2	2.09	0.51
1:W:273:ASN:HD22	1:W:388:GLN:HG3	1.74	0.51
1:Y:279:TRP:NE1	1:Y:397:LEU:HB2	2.25	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:d:527:PRO:HB2	1:d:616:ARG:NH2	2.27	0.51
1:g:383:GLY:H	1:g:519:ASN:ND2	2.09	0.51
1:h:279:TRP:NE1	1:h:397:LEU:HB2	2.25	0.51
1:t:383:GLY:H	1:t:519:ASN:ND2	2.09	0.51
1:w:279:TRP:NE1	1:w:397:LEU:HB2	2.25	0.51
1:x:304:TRP:HZ2	1:x:698:SER:HB3	1.75	0.51
1:z:279:TRP:NE1	1:z:397:LEU:HB2	2.25	0.51
1:B:527:PRO:HB2	1:B:616:ARG:NH2	2.26	0.50
1:C:383:GLY:H	1:C:519:ASN:ND2	2.09	0.50
1:E:279:TRP:NE1	1:E:397:LEU:HB2	2.25	0.50
1:J:383:GLY:H	1:J:519:ASN:ND2	2.09	0.50
1:L:279:TRP:NE1	1:L:397:LEU:HB2	2.25	0.50
1:R:304:TRP:HZ2	1:R:698:SER:HB3	1.75	0.50
1:T:527:PRO:HB2	1:T:616:ARG:NH2	2.27	0.50
1:Y:527:PRO:HB2	1:Y:616:ARG:NH2	2.27	0.50
1:f:383:GLY:H	1:f:519:ASN:ND2	2.09	0.50
1:n:527:PRO:HB2	1:n:616:ARG:NH2	2.27	0.50
1:p:383:GLY:H	1:p:519:ASN:ND2	2.09	0.50
1:s:383:GLY:H	1:s:519:ASN:ND2	2.09	0.50
1:z:383:GLY:H	1:z:519:ASN:ND2	2.09	0.50
1:2:383:GLY:H	1:2:519:ASN:ND2	2.09	0.50
1:F:527:PRO:HB2	1:F:616:ARG:NH2	2.27	0.50
1:G:476:TYR:HE2	1:I:358:GLN:HE21	1.57	0.50
1:N:383:GLY:H	1:N:519:ASN:ND2	2.09	0.50
1:O:304:TRP:HZ2	1:O:698:SER:HB3	1.75	0.50
1:O:527:PRO:HB2	1:O:616:ARG:NH2	2.27	0.50
1:Q:304:TRP:HZ2	1:Q:698:SER:HB3	1.75	0.50
1:U:383:GLY:H	1:U:519:ASN:ND2	2.09	0.50
1:Y:279:TRP:CE2	1:Y:656:LYS:HD2	2.47	0.50
1:b:383:GLY:H	1:b:519:ASN:ND2	2.09	0.50
1:c:273:ASN:HD22	1:c:388:GLN:HG3	1.74	0.50
1:l:527:PRO:HB2	1:l:616:ARG:NH2	2.27	0.50
1:m:527:PRO:HB2	1:m:616:ARG:NH2	2.27	0.50
1:u:383:GLY:H	1:u:519:ASN:ND2	2.09	0.50
1:1:527:PRO:HB2	1:1:616:ARG:NH2	2.27	0.50
1:6:273:ASN:HD22	1:6:388:GLN:HG3	1.74	0.50
1:7:527:PRO:HB2	1:7:616:ARG:NH2	2.27	0.50
1:I:383:GLY:H	1:I:519:ASN:ND2	2.09	0.50
1:K:527:PRO:HB2	1:K:616:ARG:NH2	2.27	0.50
1:L:383:GLY:H	1:L:519:ASN:ND2	2.09	0.50
1:N:527:PRO:HB2	1:N:616:ARG:NH2	2.27	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:O:279:TRP:CE2	1:O:656:LYS:HD2	2.47	0.50
1:P:527:PRO:HB2	1:P:616:ARG:NH2	2.27	0.50
1:S:527:PRO:HB2	1:S:616:ARG:NH2	2.26	0.50
1:T:256:ASN:OD1	1:T:374:GLN:NE2	2.45	0.50
1:U:527:PRO:HB2	1:U:616:ARG:NH2	2.26	0.50
1:e:383:GLY:H	1:e:519:ASN:ND2	2.09	0.50
1:i:383:GLY:H	1:i:519:ASN:ND2	2.09	0.50
1:i:527:PRO:HB2	1:i:616:ARG:NH2	2.27	0.50
1:j:256:ASN:OD1	1:j:374:GLN:NE2	2.45	0.50
1:l:279:TRP:CE2	1:l:656:LYS:HD2	2.47	0.50
1:r:527:PRO:HB2	1:r:616:ARG:NH2	2.26	0.50
1:y:527:PRO:HB2	1:y:616:ARG:NH2	2.27	0.50
1:1:383:GLY:H	1:1:519:ASN:ND2	2.09	0.50
1:B:383:GLY:H	1:B:519:ASN:ND2	2.09	0.50
1:G:279:TRP:CE2	1:G:656:LYS:HD2	2.47	0.50
1:L:256:ASN:OD1	1:L:374:GLN:NE2	2.45	0.50
1:P:256:ASN:OD1	1:P:374:GLN:NE2	2.45	0.50
1:Y:383:GLY:H	1:Y:519:ASN:ND2	2.09	0.50
1:c:383:GLY:H	1:c:519:ASN:ND2	2.09	0.50
1:i:256:ASN:OD1	1:i:374:GLN:NE2	2.45	0.50
1:k:383:GLY:H	1:k:519:ASN:ND2	2.09	0.50
1:l:304:TRP:HZ2	1:l:698:SER:HB3	1.75	0.50
1:m:256:ASN:OD1	1:m:374:GLN:NE2	2.45	0.50
1:q:304:TRP:HZ2	1:q:698:SER:HB3	1.75	0.50
1:s:527:PRO:HB2	1:s:616:ARG:NH2	2.26	0.50
1:t:476:TYR:HE2	1:u:358:GLN:HE21	1.57	0.50
1:w:383:GLY:H	1:w:519:ASN:ND2	2.09	0.50
1:y:383:GLY:H	1:y:519:ASN:ND2	2.09	0.50
1:1:256:ASN:OD1	1:1:374:GLN:NE2	2.45	0.50
1:2:279:TRP:CE2	1:2:656:LYS:HD2	2.47	0.50
1:4:527:PRO:HB2	1:4:616:ARG:NH2	2.27	0.50
1:7:279:TRP:CE2	1:7:656:LYS:HD2	2.47	0.50
1:A:279:TRP:CE2	1:A:656:LYS:HD2	2.47	0.50
1:B:256:ASN:OD1	1:B:374:GLN:NE2	2.45	0.50
1:C:527:PRO:HB2	1:C:616:ARG:NH2	2.27	0.50
1:D:256:ASN:OD1	1:D:374:GLN:NE2	2.45	0.50
1:D:383:GLY:H	1:D:519:ASN:ND2	2.09	0.50
1:E:383:GLY:H	1:E:519:ASN:ND2	2.09	0.50
1:F:383:GLY:H	1:F:519:ASN:ND2	2.09	0.50
1:G:527:PRO:HB2	1:G:616:ARG:NH2	2.27	0.50
1:H:256:ASN:OD1	1:H:374:GLN:NE2	2.45	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:256:ASN:OD1	1:J:374:GLN:NE2	2.45	0.50
1:J:279:TRP:CE2	1:J:656:LYS:HD2	2.47	0.50
1:M:527:PRO:HB2	1:M:616:ARG:NH2	2.27	0.50
1:N:256:ASN:OD1	1:N:374:GLN:NE2	2.45	0.50
1:Q:256:ASN:OD1	1:Q:374:GLN:NE2	2.45	0.50
1:W:256:ASN:OD1	1:W:374:GLN:NE2	2.45	0.50
1:X:383:GLY:H	1:X:519:ASN:ND2	2.09	0.50
1:g:527:PRO:HB2	1:g:616:ARG:NH2	2.27	0.50
1:j:527:PRO:HB2	1:j:616:ARG:NH2	2.27	0.50
1:k:256:ASN:OD1	1:k:374:GLN:NE2	2.45	0.50
1:n:279:TRP:CE2	1:n:656:LYS:HD2	2.47	0.50
1:t:279:TRP:CE2	1:t:656:LYS:HD2	2.47	0.50
1:t:527:PRO:HB2	1:t:616:ARG:NH2	2.27	0.50
1:v:279:TRP:CE2	1:v:656:LYS:HD2	2.47	0.50
1:z:256:ASN:OD1	1:z:374:GLN:NE2	2.45	0.50
1:z:279:TRP:CE2	1:z:656:LYS:HD2	2.47	0.50
1:2:256:ASN:OD1	1:2:374:GLN:NE2	2.45	0.50
1:5:256:ASN:OD1	1:5:374:GLN:NE2	2.45	0.50
1:6:256:ASN:OD1	1:6:374:GLN:NE2	2.45	0.50
1:7:383:GLY:H	1:7:519:ASN:ND2	2.09	0.50
1:D:449:SER:HB3	1:N:503:ALA:HB2	1.94	0.50
1:D:527:PRO:HB2	1:D:616:ARG:NH2	2.27	0.50
1:E:279:TRP:CE2	1:E:656:LYS:HD2	2.47	0.50
1:G:304:TRP:HZ2	1:G:698:SER:HB3	1.75	0.50
1:M:256:ASN:OD1	1:M:374:GLN:NE2	2.45	0.50
1:P:383:GLY:H	1:P:519:ASN:ND2	2.09	0.50
1:U:279:TRP:CE2	1:U:656:LYS:HD2	2.47	0.50
1:W:383:GLY:H	1:W:519:ASN:ND2	2.09	0.50
1:Z:383:GLY:H	1:Z:519:ASN:ND2	2.09	0.50
1:d:279:TRP:CE2	1:d:656:LYS:HD2	2.47	0.50
1:e:279:TRP:CE2	1:e:656:LYS:HD2	2.47	0.50
1:h:256:ASN:OD1	1:h:374:GLN:NE2	2.45	0.50
1:h:279:TRP:CE2	1:h:656:LYS:HD2	2.47	0.50
1:h:527:PRO:HB2	1:h:616:ARG:NH2	2.27	0.50
1:j:449:SER:HB3	1:k:503:ALA:HB2	1.94	0.50
1:k:527:PRO:HB2	1:k:616:ARG:NH2	2.27	0.50
1:o:383:GLY:H	1:o:519:ASN:ND2	2.09	0.50
1:s:279:TRP:CE2	1:s:656:LYS:HD2	2.47	0.50
1:w:279:TRP:CE2	1:w:656:LYS:HD2	2.47	0.50
1:w:527:PRO:HB2	1:w:616:ARG:NH2	2.27	0.50
1:x:256:ASN:OD1	1:x:374:GLN:NE2	2.45	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1:304:TRP:HZ2	1:1:698:SER:HB3	1.75	0.50
1:8:383:GLY:H	1:8:519:ASN:ND2	2.09	0.50
1:A:591:GLN:H	1:G:489:GLN:NE2	2.10	0.50
1:B:304:TRP:HZ2	1:B:698:SER:HB3	1.75	0.50
1:C:256:ASN:OD1	1:C:374:GLN:NE2	2.45	0.50
1:C:304:TRP:HZ2	1:C:698:SER:HB3	1.75	0.50
1:E:527:PRO:HB2	1:E:616:ARG:NH2	2.27	0.50
1:K:304:TRP:HZ2	1:K:698:SER:HB3	1.75	0.50
1:L:279:TRP:CE2	1:L:656:LYS:HD2	2.47	0.50
1:M:279:TRP:CE2	1:M:656:LYS:HD2	2.47	0.50
1:P:279:TRP:CE2	1:P:656:LYS:HD2	2.47	0.50
1:T:279:TRP:CE2	1:T:656:LYS:HD2	2.47	0.50
1:U:256:ASN:OD1	1:U:374:GLN:NE2	2.45	0.50
1:V:527:PRO:HB2	1:V:616:ARG:NH2	2.27	0.50
1:W:527:PRO:HB2	1:W:616:ARG:NH2	2.27	0.50
1:X:503:ALA:HB2	1:e:449:SER:HB3	1.94	0.50
1:Y:304:TRP:HZ2	1:Y:698:SER:HB3	1.75	0.50
1:a:256:ASN:OD1	1:a:374:GLN:NE2	2.45	0.50
1:c:279:TRP:CE2	1:c:656:LYS:HD2	2.47	0.50
1:c:304:TRP:HZ2	1:c:698:SER:HB3	1.75	0.50
1:c:449:SER:HB3	1:o:503:ALA:HB2	1.94	0.50
1:d:256:ASN:OD1	1:d:374:GLN:NE2	2.45	0.50
1:g:256:ASN:OD1	1:g:374:GLN:NE2	2.45	0.50
1:i:503:ALA:HB2	1:k:449:SER:HB3	1.94	0.50
1:m:279:TRP:CE2	1:m:656:LYS:HD2	2.47	0.50
1:n:256:ASN:OD1	1:n:374:GLN:NE2	2.45	0.50
1:q:279:TRP:CE2	1:q:656:LYS:HD2	2.47	0.50
1:s:256:ASN:OD1	1:s:374:GLN:NE2	2.45	0.50
1:t:256:ASN:OD1	1:t:374:GLN:NE2	2.45	0.50
1:3:256:ASN:OD1	1:3:374:GLN:NE2	2.45	0.50
1:4:304:TRP:HZ2	1:4:698:SER:HB3	1.75	0.50
1:7:304:TRP:HZ2	1:7:698:SER:HB3	1.75	0.50
1:D:503:ALA:HB2	1:P:449:SER:HB3	1.94	0.50
1:G:256:ASN:OD1	1:G:374:GLN:NE2	2.45	0.50
1:K:503:ALA:HB2	1:8:449:SER:HB3	1.94	0.50
1:O:503:ALA:HB2	1:n:449:SER:HB3	1.94	0.50
1:R:279:TRP:CE2	1:R:656:LYS:HD2	2.47	0.50
1:R:383:GLY:H	1:R:519:ASN:ND2	2.09	0.50
1:X:489:GLN:NE2	1:e:591:GLN:H	2.10	0.50
1:Z:449:SER:HB3	1:4:503:ALA:HB2	1.94	0.50
1:c:591:GLN:H	1:o:489:GLN:NE2	2.10	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:d:449:SER:HB3	1:l:503:ALA:HB2	1.94	0.50
1:j:383:GLY:H	1:j:519:ASN:ND2	2.09	0.50
1:p:527:PRO:HB2	1:p:616:ARG:NH2	2.27	0.50
1:q:383:GLY:H	1:q:519:ASN:ND2	2.09	0.50
1:q:527:PRO:HB2	1:q:616:ARG:NH2	2.26	0.50
1:x:383:GLY:H	1:x:519:ASN:ND2	2.09	0.50
1:z:591:GLN:H	1:1:489:GLN:NE2	2.10	0.50
1:6:383:GLY:H	1:6:519:ASN:ND2	2.09	0.50
1:6:527:PRO:HB2	1:6:616:ARG:NH2	2.27	0.50
1:I:279:TRP:CE2	1:I:656:LYS:HD2	2.47	0.50
1:K:256:ASN:OD1	1:K:374:GLN:NE2	2.45	0.50
1:R:527:PRO:HB2	1:R:616:ARG:NH2	2.26	0.50
1:S:256:ASN:OD1	1:S:374:GLN:NE2	2.45	0.50
1:X:256:ASN:OD1	1:X:374:GLN:NE2	2.45	0.50
1:X:279:TRP:CE2	1:X:656:LYS:HD2	2.47	0.50
1:e:304:TRP:HZ2	1:e:698:SER:HB3	1.75	0.50
1:f:661:PRO:HD2	1:z:682:THR:HG21	1.92	0.50
1:j:279:TRP:CE2	1:j:656:LYS:HD2	2.47	0.50
1:o:279:TRP:CE2	1:o:656:LYS:HD2	2.47	0.50
1:t:304:TRP:HZ2	1:t:698:SER:HB3	1.75	0.50
1:t:489:GLN:NE2	1:v:591:GLN:H	2.10	0.50
1:w:503:ALA:HB2	1:y:449:SER:HB3	1.94	0.50
1:6:279:TRP:CE2	1:6:656:LYS:HD2	2.47	0.50
1:A:383:GLY:H	1:A:519:ASN:ND2	2.09	0.49
1:B:279:TRP:CE2	1:B:656:LYS:HD2	2.47	0.49
1:D:279:TRP:CE2	1:D:656:LYS:HD2	2.47	0.49
1:E:256:ASN:OD1	1:E:374:GLN:NE2	2.45	0.49
1:E:503:ALA:HB2	1:F:449:SER:HB3	1.94	0.49
1:I:304:TRP:HZ2	1:I:698:SER:HB3	1.75	0.49
1:J:449:SER:HB3	1:L:503:ALA:HB2	1.94	0.49
1:J:527:PRO:HB2	1:J:616:ARG:NH2	2.26	0.49
1:Q:383:GLY:H	1:Q:519:ASN:ND2	2.09	0.49
1:W:279:TRP:CE2	1:W:656:LYS:HD2	2.47	0.49
1:W:449:SER:HB3	1:Y:503:ALA:HB2	1.94	0.49
1:Z:256:ASN:OD1	1:Z:374:GLN:NE2	2.45	0.49
1:Z:279:TRP:CE2	1:Z:656:LYS:HD2	2.47	0.49
1:b:256:ASN:OD1	1:b:374:GLN:NE2	2.45	0.49
1:c:256:ASN:OD1	1:c:374:GLN:NE2	2.45	0.49
1:e:256:ASN:OD1	1:e:374:GLN:NE2	2.45	0.49
1:e:527:PRO:HB2	1:e:616:ARG:NH2	2.27	0.49
1:g:304:TRP:HZ2	1:g:698:SER:HB3	1.75	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:k:279:TRP:CE2	1:k:656:LYS:HD2	2.47	0.49
1:o:256:ASN:OD1	1:o:374:GLN:NE2	2.45	0.49
1:r:256:ASN:OD1	1:r:374:GLN:NE2	2.45	0.49
1:r:449:SER:HB3	1:s:503:ALA:HB2	1.94	0.49
1:t:503:ALA:HB2	1:v:449:SER:HB3	1.94	0.49
1:u:279:TRP:CE2	1:u:656:LYS:HD2	2.47	0.49
1:w:256:ASN:OD1	1:w:374:GLN:NE2	2.45	0.49
1:1:279:TRP:CE2	1:1:656:LYS:HD2	2.47	0.49
1:3:279:TRP:CE2	1:3:656:LYS:HD2	2.47	0.49
1:4:256:ASN:OD1	1:4:374:GLN:NE2	2.45	0.49
1:5:489:GLN:NE2	1:7:591:GLN:H	2.10	0.49
1:E:740:HIS:CD2	1:Q:630:HIS:CD2	3.01	0.49
1:H:489:GLN:NE2	1:Y:591:GLN:H	2.10	0.49
1:H:527:PRO:HB2	1:H:616:ARG:NH2	2.27	0.49
1:J:591:GLN:H	1:L:489:GLN:NE2	2.11	0.49
1:K:279:TRP:CE2	1:K:656:LYS:HD2	2.47	0.49
1:M:489:GLN:NE2	1:b:591:GLN:H	2.10	0.49
1:S:449:SER:HB3	1:U:503:ALA:HB2	1.94	0.49
1:Z:527:PRO:HB2	1:Z:616:ARG:NH2	2.27	0.49
1:a:279:TRP:CE2	1:a:656:LYS:HD2	2.47	0.49
1:c:527:PRO:HB2	1:c:616:ARG:NH2	2.27	0.49
1:f:256:ASN:OD1	1:f:374:GLN:NE2	2.45	0.49
1:f:591:GLN:H	1:h:489:GLN:NE2	2.10	0.49
1:i:279:TRP:CE2	1:i:656:LYS:HD2	2.47	0.49
1:v:383:GLY:H	1:v:519:ASN:ND2	2.09	0.49
1:w:740:HIS:CD2	1:x:630:HIS:CD2	3.01	0.49
1:y:304:TRP:HZ2	1:y:698:SER:HB3	1.75	0.49
1:z:527:PRO:HB2	1:z:616:ARG:NH2	2.27	0.49
1:3:304:TRP:HZ2	1:3:698:SER:HB3	1.75	0.49
1:6:449:SER:HB3	1:7:503:ALA:HB2	1.94	0.49
1:8:256:ASN:OD1	1:8:374:GLN:NE2	2.45	0.49
1:8:279:TRP:CE2	1:8:656:LYS:HD2	2.47	0.49
1:C:591:GLN:H	1:b:489:GLN:NE2	2.11	0.49
1:D:591:GLN:H	1:N:489:GLN:NE2	2.10	0.49
1:I:527:PRO:HB2	1:I:616:ARG:NH2	2.27	0.49
1:L:527:PRO:HB2	1:L:616:ARG:NH2	2.26	0.49
1:N:591:GLN:H	1:P:489:GLN:NE2	2.10	0.49
1:Q:527:PRO:HB2	1:Q:616:ARG:NH2	2.27	0.49
1:R:630:HIS:CD2	1:U:740:HIS:CD2	3.01	0.49
1:V:449:SER:HB3	1:e:503:ALA:HB2	1.95	0.49
1:f:489:GLN:NE2	1:g:591:GLN:H	2.11	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:i:489:GLN:NE2	1:k:591:GLN:H	2.10	0.49
1:i:591:GLN:H	1:j:489:GLN:NE2	2.10	0.49
1:l:383:GLY:H	1:l:519:ASN:ND2	2.09	0.49
1:p:256:ASN:OD1	1:p:374:GLN:NE2	2.45	0.49
1:q:630:HIS:CD2	1:s:740:HIS:CD2	3.01	0.49
1:u:304:TRP:HZ2	1:u:698:SER:HB3	1.75	0.49
1:u:527:PRO:HB2	1:u:616:ARG:NH2	2.27	0.49
1:z:740:HIS:CD2	1:1:630:HIS:CD2	3.00	0.49
1:4:279:TRP:CE2	1:4:656:LYS:HD2	2.47	0.49
1:5:527:PRO:HB2	1:5:616:ARG:NH2	2.27	0.49
1:8:527:PRO:HB2	1:8:616:ARG:NH2	2.27	0.49
1:A:449:SER:HB3	1:G:503:ALA:HB2	1.94	0.49
1:B:489:GLN:NE2	1:L:591:GLN:H	2.11	0.49
1:F:304:TRP:HZ2	1:F:698:SER:HB3	1.75	0.49
1:G:740:HIS:CD2	1:I:630:HIS:CD2	3.01	0.49
1:H:304:TRP:HZ2	1:H:698:SER:HB3	1.75	0.49
1:N:279:TRP:CE2	1:N:656:LYS:HD2	2.47	0.49
1:O:383:GLY:H	1:O:519:ASN:ND2	2.09	0.49
1:R:256:ASN:OD1	1:R:374:GLN:NE2	2.45	0.49
1:R:503:ALA:HB2	1:U:449:SER:HB3	1.94	0.49
1:R:591:GLN:H	1:S:489:GLN:NE2	2.11	0.49
1:S:740:HIS:CD2	1:U:630:HIS:CD2	3.01	0.49
1:V:256:ASN:OD1	1:V:374:GLN:NE2	2.45	0.49
1:V:630:HIS:CD2	1:X:740:HIS:CD2	3.01	0.49
1:a:304:TRP:HZ2	1:a:698:SER:HB3	1.75	0.49
1:c:503:ALA:HB2	1:p:449:SER:HB3	1.95	0.49
1:d:591:GLN:H	1:l:489:GLN:NE2	2.10	0.49
1:o:740:HIS:CD2	1:p:630:HIS:CD2	3.01	0.49
1:q:256:ASN:OD1	1:q:374:GLN:NE2	2.45	0.49
1:q:503:ALA:HB2	1:s:449:SER:HB3	1.94	0.49
1:q:591:GLN:H	1:r:489:GLN:NE2	2.11	0.49
1:t:740:HIS:CD2	1:u:630:HIS:CD2	3.01	0.49
1:x:527:PRO:HB2	1:x:616:ARG:NH2	2.27	0.49
1:5:304:TRP:HZ2	1:5:698:SER:HB3	1.75	0.49
1:B:740:HIS:CD2	1:J:630:HIS:CD2	3.01	0.49
1:C:630:HIS:CD2	1:M:740:HIS:CD2	3.01	0.49
1:I:256:ASN:OD1	1:I:374:GLN:NE2	2.45	0.49
1:O:256:ASN:OD1	1:O:374:GLN:NE2	2.45	0.49
1:O:489:GLN:NE2	1:n:591:GLN:H	2.10	0.49
1:Q:279:TRP:CE2	1:Q:656:LYS:HD2	2.47	0.49
1:R:449:SER:HB3	1:S:503:ALA:HB2	1.94	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:T:630:HIS:CD2	1:l:740:HIS:CD2	3.01	0.49
1:V:279:TRP:CE2	1:V:656:LYS:HD2	2.47	0.49
1:W:304:TRP:HZ2	1:W:698:SER:HB3	1.75	0.49
1:a:527:PRO:HB2	1:a:616:ARG:NH2	2.27	0.49
1:l:256:ASN:OD1	1:l:374:GLN:NE2	2.45	0.49
1:q:449:SER:HB3	1:r:503:ALA:HB2	1.94	0.49
1:r:740:HIS:CD2	1:s:630:HIS:CD2	3.01	0.49
1:v:256:ASN:OD1	1:v:374:GLN:NE2	2.45	0.49
1:y:256:ASN:OD1	1:y:374:GLN:NE2	2.45	0.49
1:z:630:HIS:CD2	1:2:740:HIS:CD2	3.00	0.49
1:1:740:HIS:CD2	1:2:630:HIS:CD2	3.01	0.49
1:2:527:PRO:HB2	1:2:616:ARG:NH2	2.27	0.49
1:3:630:HIS:CD2	1:4:740:HIS:CD2	3.01	0.49
1:A:256:ASN:OD1	1:A:374:GLN:NE2	2.45	0.49
1:E:591:GLN:H	1:Q:489:GLN:NE2	2.11	0.49
1:K:740:HIS:CD2	1:a:630:HIS:CD2	3.01	0.49
1:N:740:HIS:CD2	1:P:630:HIS:CD2	3.01	0.49
1:O:449:SER:HB3	1:m:503:ALA:HB2	1.94	0.49
1:O:740:HIS:CD2	1:m:630:HIS:CD2	3.01	0.49
1:R:740:HIS:CD2	1:S:630:HIS:CD2	3.01	0.49
1:T:503:ALA:HB2	1:l:449:SER:HB3	1.94	0.49
1:W:591:GLN:H	1:Y:489:GLN:NE2	2.10	0.49
1:d:383:GLY:H	1:d:519:ASN:ND2	2.09	0.49
1:f:527:PRO:HB2	1:f:616:ARG:NH2	2.27	0.49
1:g:630:HIS:CD2	1:h:740:HIS:CD2	3.01	0.49
1:h:383:GLY:H	1:h:519:ASN:ND2	2.09	0.49
1:i:740:HIS:CD2	1:j:630:HIS:CD2	3.01	0.49
1:r:279:TRP:CE2	1:r:656:LYS:HD2	2.47	0.49
1:r:591:GLN:H	1:s:489:GLN:NE2	2.11	0.49
1:u:256:ASN:OD1	1:u:374:GLN:NE2	2.45	0.49
1:w:591:GLN:H	1:x:489:GLN:NE2	2.11	0.49
1:x:279:TRP:CE2	1:x:656:LYS:HD2	2.47	0.49
1:x:591:GLN:H	1:y:489:GLN:NE2	2.11	0.49
1:y:279:TRP:CE2	1:y:656:LYS:HD2	2.47	0.49
1:y:381:VAL:HB	1:y:521:ARG:NH1	2.28	0.49
1:3:527:PRO:HB2	1:3:616:ARG:NH2	2.27	0.49
1:6:591:GLN:H	1:7:489:GLN:NE2	2.10	0.49
1:A:630:HIS:CD2	1:I:740:HIS:CD2	3.01	0.49
1:C:449:SER:HB3	1:b:503:ALA:HB2	1.95	0.49
1:D:740:HIS:CD2	1:N:630:HIS:CD2	3.01	0.49
1:E:449:SER:HB3	1:Q:503:ALA:HB2	1.94	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:489:GLN:NE2	1:F:591:GLN:H	2.10	0.49
1:F:256:ASN:OD1	1:F:374:GLN:NE2	2.45	0.49
1:F:381:VAL:HB	1:F:521:ARG:NH1	2.28	0.49
1:F:489:GLN:NE2	1:Q:591:GLN:H	2.11	0.49
1:G:449:SER:HB3	1:I:503:ALA:HB2	1.94	0.49
1:H:279:TRP:CE2	1:H:656:LYS:HD2	2.47	0.49
1:O:630:HIS:CD2	1:n:740:HIS:CD2	3.01	0.49
1:P:381:VAL:HB	1:P:521:ARG:NH1	2.28	0.49
1:R:489:GLN:NE2	1:U:591:GLN:H	2.11	0.49
1:S:279:TRP:CE2	1:S:656:LYS:HD2	2.47	0.49
1:S:591:GLN:H	1:U:489:GLN:NE2	2.11	0.49
1:W:740:HIS:CD2	1:Y:630:HIS:CD2	3.01	0.49
1:X:381:VAL:HB	1:X:521:ARG:NH1	2.28	0.49
1:d:740:HIS:CD2	1:l:630:HIS:CD2	3.01	0.49
1:f:279:TRP:CE2	1:f:656:LYS:HD2	2.47	0.49
1:g:279:TRP:CE2	1:g:656:LYS:HD2	2.47	0.49
1:g:503:ALA:HB2	1:h:449:SER:HB3	1.94	0.49
1:i:449:SER:HB3	1:j:503:ALA:HB2	1.94	0.49
1:i:630:HIS:CD2	1:k:740:HIS:CD2	3.01	0.49
1:o:381:VAL:HB	1:o:521:ARG:NH1	2.28	0.49
1:p:279:TRP:CE2	1:p:656:LYS:HD2	2.47	0.49
1:q:740:HIS:CD2	1:r:630:HIS:CD2	3.01	0.49
1:v:527:PRO:HB2	1:v:616:ARG:NH2	2.27	0.49
1:z:503:ALA:HB2	1:2:449:SER:HB3	1.95	0.49
1:5:279:TRP:CE2	1:5:656:LYS:HD2	2.47	0.49
1:6:304:TRP:HZ2	1:6:698:SER:HB3	1.75	0.49
1:6:740:HIS:CD2	1:7:630:HIS:CD2	3.01	0.49
1:A:527:PRO:HB2	1:A:616:ARG:NH2	2.27	0.49
1:C:381:VAL:HB	1:C:521:ARG:NH1	2.28	0.49
1:C:489:GLN:NE2	1:M:591:GLN:H	2.11	0.49
1:C:503:ALA:HB2	1:M:449:SER:HB3	1.94	0.49
1:F:279:TRP:CE2	1:F:656:LYS:HD2	2.47	0.49
1:F:630:HIS:CD2	1:Q:740:HIS:CD2	3.01	0.49
1:G:381:VAL:HB	1:G:521:ARG:NH1	2.28	0.49
1:M:383:GLY:H	1:M:519:ASN:ND2	2.09	0.49
1:N:449:SER:HB3	1:P:503:ALA:HB2	1.94	0.49
1:T:591:GLN:H	1:d:489:GLN:NE2	2.11	0.49
1:V:381:VAL:HB	1:V:521:ARG:NH1	2.28	0.49
1:Z:503:ALA:HB2	1:3:449:SER:HB3	1.94	0.49
1:a:383:GLY:H	1:a:519:ASN:ND2	2.09	0.49
1:b:527:PRO:HB2	1:b:616:ARG:NH2	2.27	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:e:381:VAL:HB	1:e:521:ARG:NH1	2.28	0.49
1:g:381:VAL:HB	1:g:521:ARG:NH1	2.28	0.49
1:g:489:GLN:NE2	1:h:591:GLN:H	2.11	0.49
1:k:436:MET:SD	1:k:473:PHE:CD1	3.06	0.49
1:m:591:GLN:H	1:n:489:GLN:NE2	2.11	0.49
1:n:383:GLY:H	1:n:519:ASN:ND2	2.09	0.49
1:p:381:VAL:HB	1:p:521:ARG:NH1	2.28	0.49
1:q:489:GLN:NE2	1:s:591:GLN:H	2.11	0.49
1:t:381:VAL:HB	1:t:521:ARG:NH1	2.28	0.49
1:t:449:SER:HB3	1:u:503:ALA:HB2	1.94	0.49
1:u:740:HIS:CD2	1:v:630:HIS:CD2	3.01	0.49
1:v:436:MET:SD	1:v:473:PHE:CD1	3.06	0.49
1:w:449:SER:HB3	1:x:503:ALA:HB2	1.94	0.49
1:3:383:GLY:H	1:3:519:ASN:ND2	2.09	0.49
1:A:436:MET:SD	1:A:473:PHE:CD1	3.06	0.49
1:B:630:HIS:CD2	1:L:740:HIS:CD2	3.01	0.49
1:C:279:TRP:CE2	1:C:656:LYS:HD2	2.47	0.49
1:D:436:MET:SD	1:D:473:PHE:CD1	3.06	0.49
1:E:381:VAL:HB	1:E:521:ARG:NH1	2.28	0.49
1:J:740:HIS:CD2	1:L:630:HIS:CD2	3.01	0.49
1:R:381:VAL:HB	1:R:521:ARG:NH1	2.28	0.49
1:U:436:MET:SD	1:U:473:PHE:CD1	3.06	0.49
1:V:489:GLN:NE2	1:X:591:GLN:H	2.11	0.49
1:X:527:PRO:HB2	1:X:616:ARG:NH2	2.27	0.49
1:Y:256:ASN:OD1	1:Y:374:GLN:NE2	2.45	0.49
1:Z:436:MET:SD	1:Z:473:PHE:CD1	3.06	0.49
1:Z:489:GLN:NE2	1:3:591:GLN:H	2.10	0.49
1:a:449:SER:HB3	1:8:503:ALA:HB2	1.94	0.49
1:b:279:TRP:CE2	1:b:656:LYS:HD2	2.47	0.49
1:c:381:VAL:HB	1:c:521:ARG:NH1	2.28	0.49
1:f:503:ALA:HB2	1:g:449:SER:HB3	1.95	0.49
1:j:381:VAL:HB	1:j:521:ARG:NH1	2.28	0.49
1:j:542:SER:OG	1:j:579:ASP:OD2	2.26	0.49
1:m:436:MET:SD	1:m:473:PHE:CD1	3.06	0.49
1:o:591:GLN:H	1:p:489:GLN:NE2	2.11	0.49
1:q:381:VAL:HB	1:q:521:ARG:NH1	2.28	0.49
1:v:381:VAL:HB	1:v:521:ARG:NH1	2.28	0.49
1:w:489:GLN:NE2	1:y:591:GLN:H	2.10	0.49
1:x:740:HIS:CD2	1:y:630:HIS:CD2	3.01	0.49
1:z:489:GLN:NE2	1:2:591:GLN:H	2.11	0.49
1:1:381:VAL:HB	1:1:521:ARG:NH1	2.28	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1:591:GLN:H	1:2:489:GLN:NE2	2.11	0.49
1:8:436:MET:SD	1:8:473:PHE:CD1	3.06	0.49
1:A:381:VAL:HB	1:A:521:ARG:NH1	2.28	0.49
1:B:381:VAL:HB	1:B:521:ARG:NH1	2.28	0.49
1:C:436:MET:SD	1:C:473:PHE:CD1	3.06	0.49
1:E:436:MET:SD	1:E:473:PHE:CD1	3.06	0.49
1:K:436:MET:SD	1:K:473:PHE:CD1	3.06	0.49
1:K:591:GLN:H	1:a:489:GLN:NE2	2.11	0.49
1:M:436:MET:SD	1:M:473:PHE:CD1	3.06	0.49
1:P:436:MET:SD	1:P:473:PHE:CD1	3.06	0.49
1:P:542:SER:OG	1:P:579:ASP:OD2	2.26	0.49
1:T:436:MET:SD	1:T:473:PHE:CD1	3.06	0.49
1:a:283:ASP:OD1	1:a:354:MET:HG3	2.13	0.49
1:e:436:MET:SD	1:e:473:PHE:CD1	3.06	0.49
1:j:436:MET:SD	1:j:473:PHE:CD1	3.06	0.49
1:m:449:SER:HB3	1:n:503:ALA:HB2	1.95	0.49
1:o:527:PRO:HB2	1:o:616:ARG:NH2	2.27	0.49
1:s:436:MET:SD	1:s:473:PHE:CD1	3.06	0.49
1:w:381:VAL:HB	1:w:521:ARG:NH1	2.28	0.49
1:3:283:ASP:OD1	1:3:354:MET:HG3	2.13	0.49
1:3:489:GLN:NE2	1:4:591:GLN:H	2.11	0.49
1:6:381:VAL:HB	1:6:521:ARG:NH1	2.28	0.49
1:7:256:ASN:OD1	1:7:374:GLN:NE2	2.45	0.49
1:B:591:GLN:H	1:J:489:GLN:NE2	2.11	0.48
1:H:283:ASP:OD1	1:H:354:MET:HG3	2.13	0.48
1:T:449:SER:HB3	1:d:503:ALA:HB2	1.95	0.48
1:W:381:VAL:HB	1:W:521:ARG:NH1	2.28	0.48
1:X:630:HIS:CD2	1:e:740:HIS:CD2	3.01	0.48
1:Z:381:VAL:HB	1:Z:521:ARG:NH1	2.28	0.48
1:Z:740:HIS:CD2	1:4:630:HIS:CD2	3.01	0.48
1:a:591:GLN:H	1:8:489:GLN:NE2	2.10	0.48
1:c:436:MET:SD	1:c:473:PHE:CD1	3.06	0.48
1:g:436:MET:SD	1:g:473:PHE:CD1	3.06	0.48
1:h:436:MET:SD	1:h:473:PHE:CD1	3.06	0.48
1:w:436:MET:SD	1:w:473:PHE:CD1	3.06	0.48
1:w:630:HIS:CD2	1:y:740:HIS:CD2	3.01	0.48
1:3:381:VAL:HB	1:3:521:ARG:NH1	2.28	0.48
1:5:283:ASP:OD1	1:5:354:MET:HG3	2.13	0.48
1:7:436:MET:SD	1:7:473:PHE:CD1	3.06	0.48
1:B:436:MET:SD	1:B:473:PHE:CD1	3.06	0.48
1:E:630:HIS:CD2	1:F:740:HIS:CD2	3.01	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:381:VAL:HB	1:J:521:ARG:NH1	2.28	0.48
1:K:630:HIS:CD2	1:8:740:HIS:CD2	3.01	0.48
1:M:503:ALA:HB2	1:b:449:SER:HB3	1.94	0.48
1:N:283:ASP:OD1	1:N:354:MET:HG3	2.13	0.48
1:R:436:MET:SD	1:R:473:PHE:CD1	3.06	0.48
1:S:283:ASP:OD1	1:S:354:MET:HG3	2.13	0.48
1:V:283:ASP:OD1	1:V:354:MET:HG3	2.13	0.48
1:W:436:MET:SD	1:W:473:PHE:CD1	3.06	0.48
1:Y:283:ASP:OD1	1:Y:354:MET:HG3	2.13	0.48
1:Y:436:MET:SD	1:Y:473:PHE:CD1	3.06	0.48
1:a:381:VAL:HB	1:a:521:ARG:NH1	2.28	0.48
1:a:436:MET:SD	1:a:473:PHE:CD1	3.06	0.48
1:c:740:HIS:CD2	1:o:630:HIS:CD2	3.01	0.48
1:i:283:ASP:OD1	1:i:354:MET:HG3	2.13	0.48
1:p:283:ASP:OD1	1:p:354:MET:HG3	2.13	0.48
1:q:436:MET:SD	1:q:473:PHE:CD1	3.06	0.48
1:r:381:VAL:HB	1:r:521:ARG:NH1	2.28	0.48
1:r:436:MET:SD	1:r:473:PHE:CD1	3.06	0.48
1:u:436:MET:SD	1:u:473:PHE:CD1	3.06	0.48
1:1:436:MET:SD	1:1:473:PHE:CD1	3.06	0.48
1:2:304:TRP:HZ2	1:2:698:SER:HB3	1.75	0.48
1:2:381:VAL:HB	1:2:521:ARG:NH1	2.28	0.48
1:3:436:MET:SD	1:3:473:PHE:CD1	3.06	0.48
1:4:436:MET:SD	1:4:473:PHE:CD1	3.06	0.48
1:5:381:VAL:HB	1:5:521:ARG:NH1	2.28	0.48
1:5:740:HIS:CD2	1:6:630:HIS:CD2	3.01	0.48
1:7:283:ASP:OD1	1:7:354:MET:HG3	2.13	0.48
1:H:381:VAL:HB	1:H:521:ARG:NH1	2.28	0.48
1:H:630:HIS:CD2	1:Y:740:HIS:CD2	3.01	0.48
1:H:740:HIS:CD2	1:W:630:HIS:CD2	3.01	0.48
1:I:436:MET:SD	1:I:473:PHE:CD1	3.06	0.48
1:O:283:ASP:OD1	1:O:354:MET:HG3	2.13	0.48
1:S:381:VAL:HB	1:S:521:ARG:NH1	2.28	0.48
1:S:436:MET:SD	1:S:473:PHE:CD1	3.06	0.48
1:T:381:VAL:HB	1:T:521:ARG:NH1	2.28	0.48
1:f:449:SER:HB3	1:h:503:ALA:HB2	1.94	0.48
1:l:283:ASP:OD1	1:l:354:MET:HG3	2.13	0.48
1:m:381:VAL:HB	1:m:521:ARG:NH1	2.28	0.48
1:r:283:ASP:OD1	1:r:354:MET:HG3	2.13	0.48
1:u:591:GLN:H	1:v:489:GLN:NE2	2.11	0.48
1:2:436:MET:SD	1:2:473:PHE:CD1	3.06	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:5:591:GLN:H	1:6:489:GLN:NE2	2.10	0.48
1:5:630:HIS:CD2	1:7:740:HIS:CD2	3.01	0.48
1:6:436:MET:SD	1:6:473:PHE:CD1	3.06	0.48
1:8:381:VAL:HB	1:8:521:ARG:NH1	2.28	0.48
1:C:283:ASP:OD1	1:C:354:MET:HG3	2.13	0.48
1:F:436:MET:SD	1:F:473:PHE:CD1	3.06	0.48
1:H:436:MET:SD	1:H:473:PHE:CD1	3.06	0.48
1:J:436:MET:SD	1:J:473:PHE:CD1	3.06	0.48
1:K:381:VAL:HB	1:K:521:ARG:NH1	2.28	0.48
1:O:381:VAL:HB	1:O:521:ARG:NH1	2.28	0.48
1:O:436:MET:SD	1:O:473:PHE:CD1	3.06	0.48
1:Q:381:VAL:HB	1:Q:521:ARG:NH1	2.28	0.48
1:T:740:HIS:CD2	1:d:630:HIS:CD2	3.01	0.48
1:W:434:ARG:HA	1:W:434:ARG:HD3	1.45	0.48
1:X:436:MET:SD	1:X:473:PHE:CD1	3.06	0.48
1:Z:630:HIS:CD2	1:3:740:HIS:CD2	3.01	0.48
1:a:740:HIS:CD2	1:8:630:HIS:CD2	3.01	0.48
1:b:283:ASP:OD1	1:b:354:MET:HG3	2.13	0.48
1:f:283:ASP:OD1	1:f:354:MET:HG3	2.13	0.48
1:f:436:MET:SD	1:f:473:PHE:CD1	3.06	0.48
1:f:630:HIS:CD2	1:g:740:HIS:CD2	3.01	0.48
1:g:283:ASP:OD1	1:g:354:MET:HG3	2.13	0.48
1:l:381:VAL:HB	1:l:521:ARG:NH1	2.28	0.48
1:m:740:HIS:CD2	1:n:630:HIS:CD2	3.01	0.48
1:o:436:MET:SD	1:o:473:PHE:CD1	3.06	0.48
1:p:436:MET:SD	1:p:473:PHE:CD1	3.06	0.48
1:y:436:MET:SD	1:y:473:PHE:CD1	3.06	0.48
1:1:449:SER:HB3	1:2:503:ALA:HB2	1.94	0.48
1:5:436:MET:SD	1:5:473:PHE:CD1	3.06	0.48
1:A:489:GLN:NE2	1:I:591:GLN:H	2.11	0.48
1:F:542:SER:OG	1:F:579:ASP:OD2	2.26	0.48
1:G:283:ASP:OD1	1:G:354:MET:HG3	2.13	0.48
1:H:591:GLN:H	1:W:489:GLN:NE2	2.10	0.48
1:I:283:ASP:OD1	1:I:354:MET:HG3	2.13	0.48
1:I:381:VAL:HB	1:I:521:ARG:NH1	2.28	0.48
1:M:283:ASP:OD1	1:M:354:MET:HG3	2.13	0.48
1:Q:436:MET:SD	1:Q:473:PHE:CD1	3.06	0.48
1:V:436:MET:SD	1:V:473:PHE:CD1	3.06	0.48
1:V:503:ALA:HB2	1:X:449:SER:HB3	1.94	0.48
1:b:436:MET:SD	1:b:473:PHE:CD1	3.06	0.48
1:c:283:ASP:OD1	1:c:354:MET:HG3	2.13	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:c:630:HIS:CD2	1:p:740:HIS:CD2	3.01	0.48
1:e:283:ASP:OD1	1:e:354:MET:HG3	2.13	0.48
1:l:436:MET:SD	1:l:473:PHE:CD1	3.06	0.48
1:o:449:SER:HB3	1:p:503:ALA:HB2	1.94	0.48
1:u:283:ASP:OD1	1:u:354:MET:HG3	2.13	0.48
1:x:381:VAL:HB	1:x:521:ARG:NH1	2.28	0.48
1:x:436:MET:SD	1:x:473:PHE:CD1	3.06	0.48
1:4:381:VAL:HB	1:4:521:ARG:NH1	2.28	0.48
1:7:381:VAL:HB	1:7:521:ARG:NH1	2.28	0.48
1:C:740:HIS:CD2	1:b:630:HIS:CD2	3.01	0.48
1:G:436:MET:SD	1:G:473:PHE:CD1	3.06	0.48
1:G:591:GLN:H	1:I:489:GLN:NE2	2.11	0.48
1:J:304:TRP:HZ2	1:J:698:SER:HB3	1.75	0.48
1:L:381:VAL:HB	1:L:521:ARG:NH1	2.28	0.48
1:P:304:TRP:HZ2	1:P:698:SER:HB3	1.75	0.48
1:V:740:HIS:CD2	1:e:630:HIS:CD2	3.01	0.48
1:Y:381:VAL:HB	1:Y:521:ARG:NH1	2.28	0.48
1:h:283:ASP:OD1	1:h:354:MET:HG3	2.13	0.48
1:s:283:ASP:OD1	1:s:354:MET:HG3	2.13	0.48
1:t:283:ASP:OD1	1:t:354:MET:HG3	2.13	0.48
1:t:591:GLN:H	1:u:489:GLN:NE2	2.11	0.48
1:u:381:VAL:HB	1:u:521:ARG:NH1	2.28	0.48
1:y:283:ASP:OD1	1:y:354:MET:HG3	2.13	0.48
1:z:381:VAL:HB	1:z:521:ARG:NH1	2.28	0.48
1:2:283:ASP:OD1	1:2:354:MET:HG3	2.13	0.48
1:5:449:SER:HB3	1:6:503:ALA:HB2	1.94	0.48
1:A:740:HIS:CD2	1:G:630:HIS:CD2	3.01	0.48
1:B:449:SER:HB3	1:J:503:ALA:HB2	1.94	0.48
1:F:283:ASP:OD1	1:F:354:MET:HG3	2.13	0.48
1:H:434:ARG:HA	1:H:434:ARG:HD3	1.45	0.48
1:H:449:SER:HB3	1:W:503:ALA:HB2	1.94	0.48
1:J:283:ASP:OD1	1:J:354:MET:HG3	2.13	0.48
1:K:449:SER:HB3	1:a:503:ALA:HB2	1.95	0.48
1:M:381:VAL:HB	1:M:521:ARG:NH1	2.28	0.48
1:N:381:VAL:HB	1:N:521:ARG:NH1	2.28	0.48
1:O:591:GLN:H	1:m:489:GLN:NE2	2.11	0.48
1:Q:546:LEU:O	1:Q:567:THR:HB	2.14	0.48
1:U:283:ASP:OD1	1:U:354:MET:HG3	2.13	0.48
1:W:283:ASP:OD1	1:W:354:MET:HG3	2.13	0.48
1:g:546:LEU:O	1:g:567:THR:HB	2.14	0.48
1:h:381:VAL:HB	1:h:521:ARG:NH1	2.28	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:j:304:TRP:HZ2	1:j:698:SER:HB3	1.75	0.48
1:n:381:VAL:HB	1:n:521:ARG:NH1	2.28	0.48
1:t:546:LEU:O	1:t:567:THR:HB	2.14	0.48
1:x:546:LEU:O	1:x:567:THR:HB	2.14	0.48
1:z:449:SER:HB3	1:1:503:ALA:HB2	1.94	0.48
1:3:503:ALA:HB2	1:4:449:SER:HB3	1.95	0.48
1:B:283:ASP:OD1	1:B:354:MET:HG3	2.13	0.48
1:B:503:ALA:HB2	1:L:449:SER:HB3	1.94	0.48
1:B:546:LEU:O	1:B:567:THR:HB	2.14	0.48
1:C:546:LEU:O	1:C:567:THR:HB	2.14	0.48
1:D:546:LEU:O	1:D:567:THR:HB	2.14	0.48
1:F:503:ALA:HB2	1:Q:449:SER:HB3	1.95	0.48
1:G:546:LEU:O	1:G:567:THR:HB	2.14	0.48
1:H:503:ALA:HB2	1:Y:449:SER:HB3	1.94	0.48
1:K:283:ASP:OD1	1:K:354:MET:HG3	2.13	0.48
1:T:283:ASP:OD1	1:T:354:MET:HG3	2.13	0.48
1:T:489:GLN:NE2	1:l:591:GLN:H	2.11	0.48
1:T:546:LEU:O	1:T:567:THR:HB	2.14	0.48
1:U:381:VAL:HB	1:U:521:ARG:NH1	2.28	0.48
1:U:546:LEU:O	1:U:567:THR:HB	2.14	0.48
1:b:381:VAL:HB	1:b:521:ARG:NH1	2.28	0.48
1:i:436:MET:SD	1:i:473:PHE:CD1	3.06	0.48
1:m:546:LEU:O	1:m:567:THR:HB	2.14	0.48
1:s:381:VAL:HB	1:s:521:ARG:NH1	2.28	0.48
1:s:546:LEU:O	1:s:567:THR:HB	2.14	0.48
1:t:436:MET:SD	1:t:473:PHE:CD1	3.06	0.48
1:t:630:HIS:CD2	1:v:740:HIS:CD2	3.01	0.48
1:x:449:SER:HB3	1:y:503:ALA:HB2	1.95	0.48
1:z:436:MET:SD	1:z:473:PHE:CD1	3.06	0.48
1:1:283:ASP:OD1	1:1:354:MET:HG3	2.14	0.48
1:1:546:LEU:O	1:1:567:THR:HB	2.14	0.48
1:6:283:ASP:OD1	1:6:354:MET:HG3	2.13	0.48
1:D:630:HIS:CD2	1:P:740:HIS:CD2	3.01	0.48
1:K:489:GLN:NE2	1:8:591:GLN:H	2.11	0.48
1:L:436:MET:SD	1:L:473:PHE:CD1	3.06	0.48
1:N:436:MET:SD	1:N:473:PHE:CD1	3.06	0.48
1:W:546:LEU:O	1:W:567:THR:HB	2.14	0.48
1:Z:591:GLN:H	1:4:489:GLN:NE2	2.11	0.48
1:d:381:VAL:HB	1:d:521:ARG:NH1	2.28	0.48
1:d:436:MET:SD	1:d:473:PHE:CD1	3.06	0.48
1:f:740:HIS:CD2	1:h:630:HIS:CD2	3.01	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:j:740:HIS:CD2	1:k:630:HIS:CD2	3.01	0.48
1:k:546:LEU:O	1:k:567:THR:HB	2.14	0.48
1:m:283:ASP:OD1	1:m:354:MET:HG3	2.13	0.48
1:n:436:MET:SD	1:n:473:PHE:CD1	3.06	0.48
1:4:283:ASP:OD1	1:4:354:MET:HG3	2.13	0.48
1:5:503:ALA:HB2	1:7:449:SER:HB3	1.94	0.48
1:6:546:LEU:O	1:6:567:THR:HB	2.14	0.48
1:A:283:ASP:OD1	1:A:354:MET:HG3	2.13	0.48
1:B:295:ASP:OD1	1:B:298:ARG:NH1	2.47	0.48
1:E:295:ASP:OD1	1:E:298:ARG:NH1	2.47	0.48
1:L:283:ASP:OD1	1:L:354:MET:HG3	2.13	0.48
1:M:630:HIS:CD2	1:b:740:HIS:CD2	3.01	0.48
1:P:283:ASP:OD1	1:P:354:MET:HG3	2.13	0.48
1:f:381:VAL:HB	1:f:521:ARG:NH1	2.28	0.48
1:j:283:ASP:OD1	1:j:354:MET:HG3	2.13	0.48
1:v:283:ASP:OD1	1:v:354:MET:HG3	2.13	0.48
1:z:283:ASP:OD1	1:z:354:MET:HG3	2.13	0.48
1:1:295:ASP:OD1	1:1:298:ARG:NH1	2.47	0.48
1:4:546:LEU:O	1:4:567:THR:HB	2.14	0.48
1:A:295:ASP:OD1	1:A:298:ARG:NH1	2.47	0.47
1:A:546:LEU:O	1:A:567:THR:HB	2.14	0.47
1:D:489:GLN:NE2	1:P:591:GLN:H	2.10	0.47
1:E:283:ASP:OD1	1:E:354:MET:HG3	2.13	0.47
1:K:546:LEU:O	1:K:567:THR:HB	2.14	0.47
1:N:546:LEU:O	1:N:567:THR:HB	2.14	0.47
1:R:283:ASP:OD1	1:R:354:MET:HG3	2.13	0.47
1:S:546:LEU:O	1:S:567:THR:HB	2.14	0.47
1:U:295:ASP:OD1	1:U:298:ARG:NH1	2.47	0.47
1:W:295:ASP:OD1	1:W:298:ARG:NH1	2.47	0.47
1:X:546:LEU:O	1:X:567:THR:HB	2.14	0.47
1:Z:283:ASP:OD1	1:Z:354:MET:HG3	2.13	0.47
1:d:546:LEU:O	1:d:567:THR:HB	2.14	0.47
1:g:722:ASP:C	1:1:262:ARG:HG2	2.39	0.47
1:i:381:VAL:HB	1:i:521:ARG:NH1	2.28	0.47
1:j:591:GLN:H	1:k:489:GLN:NE2	2.10	0.47
1:n:283:ASP:OD1	1:n:354:MET:HG3	2.13	0.47
1:n:546:LEU:O	1:n:567:THR:HB	2.14	0.47
1:q:283:ASP:OD1	1:q:354:MET:HG3	2.13	0.47
1:r:546:LEU:O	1:r:567:THR:HB	2.14	0.47
1:s:295:ASP:OD1	1:s:298:ARG:NH1	2.47	0.47
1:u:449:SER:HB3	1:v:503:ALA:HB2	1.95	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:v:295:ASP:OD1	1:v:298:ARG:NH1	2.47	0.47
1:v:546:LEU:O	1:v:567:THR:HB	2.14	0.47
1:w:283:ASP:OD1	1:w:354:MET:HG3	2.13	0.47
1:w:295:ASP:OD1	1:w:298:ARG:NH1	2.47	0.47
1:x:283:ASP:OD1	1:x:354:MET:HG3	2.13	0.47
1:B:262:ARG:HG2	1:C:722:ASP:C	2.40	0.47
1:D:295:ASP:OD1	1:D:298:ARG:NH1	2.47	0.47
1:M:295:ASP:OD1	1:M:298:ARG:NH1	2.47	0.47
1:P:295:ASP:OD1	1:P:298:ARG:NH1	2.47	0.47
1:Q:283:ASP:OD1	1:Q:354:MET:HG3	2.13	0.47
1:X:283:ASP:OD1	1:X:354:MET:HG3	2.13	0.47
1:Y:295:ASP:OD1	1:Y:298:ARG:NH1	2.47	0.47
1:i:546:LEU:O	1:i:567:THR:HB	2.14	0.47
1:j:295:ASP:OD1	1:j:298:ARG:NH1	2.47	0.47
1:o:283:ASP:OD1	1:o:354:MET:HG3	2.13	0.47
1:o:546:LEU:O	1:o:567:THR:HB	2.14	0.47
1:p:546:LEU:O	1:p:567:THR:HB	2.14	0.47
1:5:434:ARG:HA	1:5:434:ARG:HD3	1.45	0.47
1:6:295:ASP:OD1	1:6:298:ARG:NH1	2.47	0.47
1:7:295:ASP:OD1	1:7:298:ARG:NH1	2.47	0.47
1:D:381:VAL:HB	1:D:521:ARG:NH1	2.28	0.47
1:H:295:ASP:OD1	1:H:298:ARG:NH1	2.47	0.47
1:O:295:ASP:OD1	1:O:298:ARG:NH1	2.47	0.47
1:R:262:ARG:HG2	1:V:722:ASP:C	2.40	0.47
1:d:283:ASP:OD1	1:d:354:MET:HG3	2.13	0.47
1:e:546:LEU:O	1:e:567:THR:HB	2.14	0.47
1:h:295:ASP:OD1	1:h:298:ARG:NH1	2.47	0.47
1:h:546:LEU:O	1:h:567:THR:HB	2.14	0.47
1:k:295:ASP:OD1	1:k:298:ARG:NH1	2.47	0.47
1:k:381:VAL:HB	1:k:521:ARG:NH1	2.28	0.47
1:l:295:ASP:OD1	1:l:298:ARG:NH1	2.47	0.47
1:z:262:ARG:HG2	1:4:722:ASP:C	2.39	0.47
1:5:295:ASP:OD1	1:5:298:ARG:NH1	2.47	0.47
1:6:434:ARG:HD3	1:6:434:ARG:HA	1.45	0.47
1:8:283:ASP:OD1	1:8:354:MET:HG3	2.13	0.47
1:H:262:ARG:HG2	1:Z:722:ASP:C	2.40	0.47
1:I:279:TRP:CG	1:I:397:LEU:HD12	2.50	0.47
1:I:722:ASP:C	1:J:262:ARG:HG2	2.39	0.47
1:M:546:LEU:O	1:M:567:THR:HB	2.14	0.47
1:N:279:TRP:CG	1:N:397:LEU:HD12	2.50	0.47
1:U:434:ARG:HD3	1:U:434:ARG:HA	1.45	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:V:546:LEU:O	1:V:567:THR:HB	2.14	0.47
1:a:279:TRP:CG	1:a:397:LEU:HD12	2.50	0.47
1:c:350:LEU:HD11	1:c:397:LEU:HD22	1.97	0.47
1:c:546:LEU:O	1:c:567:THR:HB	2.14	0.47
1:d:279:TRP:CG	1:d:397:LEU:HD12	2.50	0.47
1:k:283:ASP:OD1	1:k:354:MET:HG3	2.13	0.47
1:n:279:TRP:CG	1:n:397:LEU:HD12	2.50	0.47
1:p:722:ASP:C	1:q:262:ARG:HG2	2.40	0.47
1:u:279:TRP:CG	1:u:397:LEU:HD12	2.50	0.47
1:u:722:ASP:C	1:2:262:ARG:HG2	2.39	0.47
1:3:279:TRP:CG	1:3:397:LEU:HD12	2.50	0.47
1:F:262:ARG:HG2	1:R:722:ASP:C	2.40	0.47
1:F:295:ASP:OD1	1:F:298:ARG:NH1	2.47	0.47
1:J:295:ASP:OD1	1:J:298:ARG:NH1	2.47	0.47
1:K:279:TRP:CG	1:K:397:LEU:HD12	2.50	0.47
1:K:722:ASP:C	1:L:262:ARG:HG2	2.39	0.47
1:M:262:ARG:HG2	1:c:722:ASP:C	2.40	0.47
1:M:722:ASP:C	1:N:262:ARG:HG2	2.40	0.47
1:N:571:GLU:HG3	1:P:391:ARG:NH2	2.30	0.47
1:Q:295:ASP:OD1	1:Q:298:ARG:NH1	2.47	0.47
1:S:722:ASP:C	1:d:262:ARG:HG2	2.40	0.47
1:U:722:ASP:C	1:e:262:ARG:HG2	2.40	0.47
1:Z:295:ASP:OD1	1:Z:298:ARG:NH1	2.47	0.47
1:b:546:LEU:O	1:b:567:THR:HB	2.14	0.47
1:e:350:LEU:HD11	1:e:397:LEU:HD22	1.97	0.47
1:e:722:ASP:C	1:h:262:ARG:HG2	2.40	0.47
1:h:722:ASP:C	1:i:262:ARG:HG2	2.40	0.47
1:i:279:TRP:CG	1:i:397:LEU:HD12	2.50	0.47
1:n:262:ARG:HG2	1:r:722:ASP:C	2.40	0.47
1:q:722:ASP:C	1:y:262:ARG:HG2	2.40	0.47
1:t:295:ASP:OD1	1:t:298:ARG:NH1	2.47	0.47
1:v:722:ASP:C	1:w:262:ARG:HG2	2.40	0.47
1:z:295:ASP:OD1	1:z:298:ARG:NH1	2.47	0.47
1:3:546:LEU:O	1:3:567:THR:HB	2.14	0.47
1:5:262:ARG:HG2	1:8:722:ASP:C	2.40	0.47
1:A:262:ARG:HG2	1:B:722:ASP:C	2.40	0.47
1:A:279:TRP:CG	1:A:397:LEU:HD12	2.50	0.47
1:A:391:ARG:NH2	1:I:571:GLU:HG3	2.30	0.47
1:A:503:ALA:HB2	1:I:449:SER:HB3	1.95	0.47
1:C:350:LEU:HD11	1:C:397:LEU:HD22	1.97	0.47
1:D:283:ASP:OD1	1:D:354:MET:HG3	2.13	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:279:TRP:CG	1:E:397:LEU:HD12	2.50	0.47
1:F:546:LEU:O	1:F:567:THR:HB	2.14	0.47
1:G:295:ASP:OD1	1:G:298:ARG:NH1	2.47	0.47
1:L:295:ASP:OD1	1:L:298:ARG:NH1	2.47	0.47
1:O:262:ARG:HG2	1:d:722:ASP:C	2.40	0.47
1:O:722:ASP:C	1:P:262:ARG:HG2	2.40	0.47
1:R:279:TRP:CG	1:R:397:LEU:HD12	2.50	0.47
1:R:546:LEU:O	1:R:567:THR:HB	2.14	0.47
1:T:350:LEU:HD11	1:T:397:LEU:HD22	1.97	0.47
1:X:262:ARG:HG2	1:f:722:ASP:C	2.40	0.47
1:X:279:TRP:CG	1:X:397:LEU:HD12	2.50	0.47
1:X:722:ASP:C	1:Y:262:ARG:HG2	2.40	0.47
1:b:722:ASP:C	1:o:262:ARG:HG2	2.40	0.47
1:c:262:ARG:HG2	1:s:722:ASP:C	2.40	0.47
1:f:546:LEU:O	1:f:567:THR:HB	2.14	0.47
1:g:350:LEU:HD11	1:g:397:LEU:HD22	1.97	0.47
1:i:571:GLU:HG3	1:j:391:ARG:NH2	2.30	0.47
1:j:262:ARG:HG2	1:l:722:ASP:C	2.40	0.47
1:j:350:LEU:HD11	1:j:397:LEU:HD22	1.97	0.47
1:l:262:ARG:HG2	1:n:722:ASP:C	2.40	0.47
1:m:350:LEU:HD11	1:m:397:LEU:HD22	1.97	0.47
1:n:295:ASP:OD1	1:n:298:ARG:NH1	2.47	0.47
1:o:279:TRP:CG	1:o:397:LEU:HD12	2.50	0.47
1:q:279:TRP:CG	1:q:397:LEU:HD12	2.50	0.47
1:u:546:LEU:O	1:u:567:THR:HB	2.14	0.47
1:v:262:ARG:HG2	1:l:722:ASP:C	2.40	0.47
1:v:279:TRP:CG	1:v:397:LEU:HD12	2.50	0.47
1:w:279:TRP:CG	1:w:397:LEU:HD12	2.50	0.47
1:w:546:LEU:O	1:w:567:THR:HB	2.14	0.47
1:x:295:ASP:OD1	1:x:298:ARG:NH1	2.47	0.47
1:y:295:ASP:OD1	1:y:298:ARG:NH1	2.47	0.47
1:2:295:ASP:OD1	1:2:298:ARG:NH1	2.47	0.47
1:2:546:LEU:O	1:2:567:THR:HB	2.14	0.47
1:4:279:TRP:CG	1:4:397:LEU:HD12	2.50	0.47
1:5:571:GLU:HG3	1:6:391:ARG:NH2	2.30	0.47
1:8:295:ASP:OD1	1:8:298:ARG:NH1	2.47	0.47
1:8:350:LEU:HD11	1:8:397:LEU:HD22	1.97	0.47
1:A:722:ASP:C	1:E:262:ARG:HG2	2.40	0.47
1:B:279:TRP:CG	1:B:397:LEU:HD12	2.50	0.47
1:D:391:ARG:NH2	1:P:571:GLU:HG3	2.30	0.47
1:D:571:GLU:HG3	1:N:391:ARG:NH2	2.30	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:350:LEU:HD11	1:E:397:LEU:HD22	1.97	0.47
1:E:546:LEU:O	1:E:567:THR:HB	2.14	0.47
1:G:722:ASP:C	1:W:262:ARG:HG2	2.40	0.47
1:H:350:LEU:HD11	1:H:397:LEU:HD22	1.97	0.47
1:H:391:ARG:NH2	1:Y:571:GLU:HG3	2.30	0.47
1:H:571:GLU:HG3	1:W:391:ARG:NH2	2.30	0.47
1:I:546:LEU:O	1:I:567:THR:HB	2.14	0.47
1:J:279:TRP:CG	1:J:397:LEU:HD12	2.50	0.47
1:J:350:LEU:HD11	1:J:397:LEU:HD22	1.97	0.47
1:K:262:ARG:HG2	1:7:722:ASP:C	2.40	0.47
1:K:295:ASP:OD1	1:K:298:ARG:NH1	2.47	0.47
1:M:391:ARG:NH2	1:b:571:GLU:HG3	2.30	0.47
1:O:391:ARG:NH2	1:n:571:GLU:HG3	2.30	0.47
1:P:279:TRP:CG	1:P:397:LEU:HD12	2.50	0.47
1:P:350:LEU:HD11	1:P:397:LEU:HD22	1.97	0.47
1:Q:279:TRP:CG	1:Q:397:LEU:HD12	2.50	0.47
1:R:391:ARG:NH2	1:U:571:GLU:HG3	2.30	0.47
1:V:591:GLN:H	1:e:489:GLN:NE2	2.11	0.47
1:Y:722:ASP:C	1:4:262:ARG:HG2	2.40	0.47
1:Z:350:LEU:HD11	1:Z:397:LEU:HD22	1.97	0.47
1:a:542:SER:OG	1:a:579:ASP:OD2	2.26	0.47
1:a:546:LEU:O	1:a:567:THR:HB	2.14	0.47
1:b:279:TRP:CG	1:b:397:LEU:HD12	2.50	0.47
1:b:295:ASP:OD1	1:b:298:ARG:NH1	2.47	0.47
1:b:350:LEU:HD11	1:b:397:LEU:HD22	1.97	0.47
1:c:295:ASP:OD1	1:c:298:ARG:NH1	2.47	0.47
1:d:295:ASP:OD1	1:d:298:ARG:NH1	2.47	0.47
1:f:279:TRP:CG	1:f:397:LEU:HD12	2.50	0.47
1:f:350:LEU:HD11	1:f:397:LEU:HD22	1.97	0.47
1:f:571:GLU:HG3	1:h:391:ARG:NH2	2.30	0.47
1:g:262:ARG:HG2	1:k:722:ASP:C	2.40	0.47
1:h:350:LEU:HD11	1:h:397:LEU:HD22	1.97	0.47
1:i:391:ARG:NH2	1:k:571:GLU:HG3	2.30	0.47
1:j:279:TRP:CG	1:j:397:LEU:HD12	2.50	0.47
1:j:571:GLU:HG3	1:k:391:ARG:NH2	2.30	0.47
1:l:546:LEU:O	1:l:567:THR:HB	2.14	0.47
1:o:722:ASP:C	1:7:262:ARG:HG2	2.40	0.47
1:q:391:ARG:NH2	1:s:571:GLU:HG3	2.30	0.47
1:q:546:LEU:O	1:q:567:THR:HB	2.14	0.47
1:s:434:ARG:HD3	1:s:434:ARG:HA	1.45	0.47
1:t:722:ASP:C	1:6:262:ARG:HG2	2.40	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:u:571:GLU:HG3	1:v:391:ARG:NH2	2.30	0.47
1:w:350:LEU:HD11	1:w:397:LEU:HD22	1.97	0.47
1:w:434:ARG:HD3	1:w:434:ARG:HA	1.45	0.47
1:x:279:TRP:CG	1:x:397:LEU:HD12	2.50	0.47
1:y:546:LEU:O	1:y:567:THR:HB	2.14	0.47
1:1:279:TRP:CG	1:1:397:LEU:HD12	2.50	0.47
1:2:279:TRP:CG	1:2:397:LEU:HD12	2.50	0.47
1:2:350:LEU:HD11	1:2:397:LEU:HD22	1.97	0.47
1:4:295:ASP:OD1	1:4:298:ARG:NH1	2.47	0.47
1:5:350:LEU:HD11	1:5:397:LEU:HD22	1.97	0.47
1:5:391:ARG:NH2	1:7:571:GLU:HG3	2.30	0.47
1:8:546:LEU:O	1:8:567:THR:HB	2.14	0.47
1:A:350:LEU:HD11	1:A:397:LEU:HD22	1.97	0.47
1:C:262:ARG:HG2	1:D:722:ASP:C	2.40	0.47
1:G:542:SER:OG	1:G:579:ASP:OD2	2.26	0.47
1:J:546:LEU:O	1:J:567:THR:HB	2.14	0.47
1:M:279:TRP:CG	1:M:397:LEU:HD12	2.50	0.47
1:O:546:LEU:O	1:O:567:THR:HB	2.14	0.47
1:S:295:ASP:OD1	1:S:298:ARG:NH1	2.47	0.47
1:T:571:GLU:HG3	1:d:391:ARG:NH2	2.30	0.47
1:V:262:ARG:HG2	1:W:722:ASP:C	2.40	0.47
1:c:489:GLN:NE2	1:p:591:GLN:H	2.11	0.47
1:d:571:GLU:HG3	1:l:391:ARG:NH2	2.30	0.47
1:e:295:ASP:OD1	1:e:298:ARG:NH1	2.47	0.47
1:f:295:ASP:OD1	1:f:298:ARG:NH1	2.47	0.47
1:m:571:GLU:HG3	1:n:391:ARG:NH2	2.30	0.47
1:v:350:LEU:HD11	1:v:397:LEU:HD22	1.97	0.47
1:F:607:ILE:HA	1:F:611:MET:SD	2.55	0.47
1:H:279:TRP:CG	1:H:397:LEU:HD12	2.50	0.47
1:K:571:GLU:HG3	1:a:391:ARG:NH2	2.30	0.47
1:K:607:ILE:HA	1:K:611:MET:SD	2.55	0.47
1:M:350:LEU:HD11	1:M:397:LEU:HD22	1.97	0.47
1:O:350:LEU:HD11	1:O:397:LEU:HD22	1.97	0.47
1:V:350:LEU:HD11	1:V:397:LEU:HD22	1.97	0.47
1:Z:546:LEU:O	1:Z:567:THR:HB	2.14	0.47
1:h:279:TRP:CG	1:h:397:LEU:HD12	2.50	0.47
1:m:607:ILE:HA	1:m:611:MET:SD	2.55	0.47
1:p:262:ARG:HG2	1:6:722:ASP:C	2.40	0.47
1:p:279:TRP:CG	1:p:397:LEU:HD12	2.50	0.47
1:q:295:ASP:OD1	1:q:298:ARG:NH1	2.47	0.47
1:r:295:ASP:OD1	1:r:298:ARG:NH1	2.47	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:r:350:LEU:HD11	1:r:397:LEU:HD22	1.97	0.47
1:y:607:ILE:HA	1:y:611:MET:SD	2.55	0.47
1:z:279:TRP:CG	1:z:397:LEU:HD12	2.50	0.47
1:5:279:TRP:CG	1:5:397:LEU:HD12	2.50	0.47
1:7:546:LEU:O	1:7:567:THR:HB	2.14	0.47
1:B:391:ARG:NH2	1:L:571:GLU:HG3	2.30	0.47
1:C:295:ASP:OD1	1:C:298:ARG:NH1	2.47	0.47
1:C:571:GLU:HG3	1:b:391:ARG:NH2	2.30	0.47
1:D:607:ILE:HA	1:D:611:MET:SD	2.55	0.47
1:G:479:ASN:HD21	1:I:641:MET:HB2	1.80	0.47
1:H:546:LEU:O	1:H:567:THR:HB	2.14	0.47
1:L:279:TRP:CG	1:L:397:LEU:HD12	2.50	0.47
1:L:546:LEU:O	1:L:567:THR:HB	2.14	0.47
1:O:479:ASN:HD21	1:m:641:MET:HB2	1.80	0.47
1:S:350:LEU:HD11	1:S:397:LEU:HD22	1.97	0.47
1:T:279:TRP:CG	1:T:397:LEU:HD12	2.50	0.47
1:T:607:ILE:HA	1:T:611:MET:SD	2.55	0.47
1:T:641:MET:HB2	1:l:479:ASN:HD21	1.80	0.47
1:V:279:TRP:CG	1:V:397:LEU:HD12	2.50	0.47
1:W:571:GLU:HG3	1:Y:391:ARG:NH2	2.30	0.47
1:Y:546:LEU:O	1:Y:567:THR:HB	2.14	0.47
1:Y:607:ILE:HA	1:Y:611:MET:SD	2.55	0.47
1:a:607:ILE:HA	1:a:611:MET:SD	2.55	0.47
1:c:279:TRP:CG	1:c:397:LEU:HD12	2.50	0.47
1:g:295:ASP:OD1	1:g:298:ARG:NH1	2.47	0.47
1:i:295:ASP:OD1	1:i:298:ARG:NH1	2.47	0.47
1:l:350:LEU:HD11	1:l:397:LEU:HD22	1.97	0.47
1:p:350:LEU:HD11	1:p:397:LEU:HD22	1.97	0.47
1:q:542:SER:OG	1:q:579:ASP:OD2	2.26	0.47
1:u:295:ASP:OD1	1:u:298:ARG:NH1	2.47	0.47
1:1:571:GLU:HG3	1:2:391:ARG:NH2	2.30	0.47
1:3:295:ASP:OD1	1:3:298:ARG:NH1	2.47	0.47
1:3:391:ARG:NH2	1:4:571:GLU:HG3	2.30	0.47
1:3:542:SER:OG	1:3:579:ASP:OD2	2.26	0.47
1:3:607:ILE:HA	1:3:611:MET:SD	2.55	0.47
1:4:607:ILE:HA	1:4:611:MET:SD	2.55	0.47
1:5:546:LEU:O	1:5:567:THR:HB	2.14	0.47
1:6:571:GLU:HG3	1:7:391:ARG:NH2	2.30	0.47
1:7:542:SER:OG	1:7:579:ASP:OD2	2.26	0.47
1:7:607:ILE:HA	1:7:611:MET:SD	2.55	0.47
1:B:571:GLU:HG3	1:J:391:ARG:NH2	2.30	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:607:ILE:HA	1:E:611:MET:SD	2.55	0.46
1:I:295:ASP:OD1	1:I:298:ARG:NH1	2.47	0.46
1:I:607:ILE:HA	1:I:611:MET:SD	2.55	0.46
1:L:722:ASP:C	1:b:262:ARG:HG2	2.40	0.46
1:N:295:ASP:OD1	1:N:298:ARG:NH1	2.47	0.46
1:P:722:ASP:C	1:Q:262:ARG:HG2	2.40	0.46
1:R:295:ASP:OD1	1:R:298:ARG:NH1	2.47	0.46
1:W:350:LEU:HD11	1:W:397:LEU:HD22	1.97	0.46
1:Z:279:TRP:CG	1:Z:397:LEU:HD12	2.50	0.46
1:a:295:ASP:OD1	1:a:298:ARG:NH1	2.47	0.46
1:b:607:ILE:HA	1:b:611:MET:SD	2.55	0.46
1:e:279:TRP:CG	1:e:397:LEU:HD12	2.50	0.46
1:f:391:ARG:NH2	1:g:571:GLU:HG3	2.30	0.46
1:j:546:LEU:O	1:j:567:THR:HB	2.14	0.46
1:k:607:ILE:HA	1:k:611:MET:SD	2.55	0.46
1:m:279:TRP:CG	1:m:397:LEU:HD12	2.50	0.46
1:m:295:ASP:OD1	1:m:298:ARG:NH1	2.47	0.46
1:o:295:ASP:OD1	1:o:298:ARG:NH1	2.47	0.46
1:t:479:ASN:HD21	1:u:641:MET:HB2	1.80	0.46
1:w:607:ILE:HA	1:w:611:MET:SD	2.55	0.46
1:y:350:LEU:HD11	1:y:397:LEU:HD22	1.97	0.46
1:z:350:LEU:HD11	1:z:397:LEU:HD22	1.97	0.46
1:5:607:ILE:HA	1:5:611:MET:SD	2.55	0.46
1:6:350:LEU:HD11	1:6:397:LEU:HD22	1.97	0.46
1:D:262:ARG:HG2	1:E:722:ASP:C	2.40	0.46
1:E:296:TRP:O	1:E:300:ILE:HG12	2.16	0.46
1:E:571:GLU:HG3	1:Q:391:ARG:NH2	2.30	0.46
1:F:350:LEU:HD11	1:F:397:LEU:HD22	1.97	0.46
1:F:641:MET:HB2	1:Q:479:ASN:HD21	1.80	0.46
1:H:607:ILE:HA	1:H:611:MET:SD	2.55	0.46
1:M:607:ILE:HA	1:M:611:MET:SD	2.55	0.46
1:P:546:LEU:O	1:P:567:THR:HB	2.14	0.46
1:Q:722:ASP:C	1:S:262:ARG:HG2	2.39	0.46
1:T:295:ASP:OD1	1:T:298:ARG:NH1	2.47	0.46
1:V:295:ASP:OD1	1:V:298:ARG:NH1	2.47	0.46
1:Z:262:ARG:HG2	1:a:722:ASP:C	2.40	0.46
1:Z:491:PHE:CZ	1:Z:509:LEU:HD11	2.51	0.46
1:a:479:ASN:HD21	1:8:641:MET:HB2	1.81	0.46
1:d:296:TRP:O	1:d:300:ILE:HG12	2.16	0.46
1:f:607:ILE:HA	1:f:611:MET:SD	2.55	0.46
1:h:607:ILE:HA	1:h:611:MET:SD	2.55	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:j:722:ASP:C	1:x:262:ARG:HG2	2.40	0.46
1:k:262:ARG:HG2	1:w:722:ASP:C	2.40	0.46
1:k:279:TRP:CG	1:k:397:LEU:HD12	2.50	0.46
1:l:279:TRP:CG	1:l:397:LEU:HD12	2.50	0.46
1:p:296:TRP:O	1:p:300:ILE:HG12	2.16	0.46
1:q:479:ASN:HD21	1:r:641:MET:HB2	1.80	0.46
1:t:641:MET:HB2	1:v:479:ASN:HD21	1.81	0.46
1:u:607:ILE:HA	1:u:611:MET:SD	2.55	0.46
1:w:296:TRP:O	1:w:300:ILE:HG12	2.16	0.46
1:x:479:ASN:HD21	1:y:641:MET:HB2	1.80	0.46
1:z:546:LEU:O	1:z:567:THR:HB	2.14	0.46
1:z:607:ILE:HA	1:z:611:MET:SD	2.55	0.46
1:6:296:TRP:O	1:6:300:ILE:HG12	2.16	0.46
1:8:279:TRP:CG	1:8:397:LEU:HD12	2.50	0.46
1:B:296:TRP:O	1:B:300:ILE:HG12	2.16	0.46
1:C:279:TRP:CG	1:C:397:LEU:HD12	2.50	0.46
1:C:479:ASN:HD21	1:b:641:MET:HB2	1.80	0.46
1:D:279:TRP:CG	1:D:397:LEU:HD12	2.50	0.46
1:E:391:ARG:NH2	1:F:571:GLU:HG3	2.30	0.46
1:E:491:PHE:CZ	1:E:509:LEU:HD11	2.51	0.46
1:F:279:TRP:CG	1:F:397:LEU:HD12	2.50	0.46
1:H:491:PHE:CZ	1:H:509:LEU:HD11	2.51	0.46
1:K:491:PHE:CZ	1:K:509:LEU:HD11	2.51	0.46
1:L:350:LEU:HD11	1:L:397:LEU:HD22	1.97	0.46
1:M:296:TRP:O	1:M:300:ILE:HG12	2.16	0.46
1:O:279:TRP:CG	1:O:397:LEU:HD12	2.50	0.46
1:O:296:TRP:O	1:O:300:ILE:HG12	2.16	0.46
1:R:479:ASN:HD21	1:S:641:MET:HB2	1.80	0.46
1:T:434:ARG:HD3	1:T:434:ARG:HA	1.45	0.46
1:T:722:ASP:C	1:U:262:ARG:HG2	2.39	0.46
1:U:607:ILE:HA	1:U:611:MET:SD	2.55	0.46
1:V:296:TRP:O	1:V:300:ILE:HG12	2.16	0.46
1:W:296:TRP:O	1:W:300:ILE:HG12	2.16	0.46
1:X:295:ASP:OD1	1:X:298:ARG:NH1	2.47	0.46
1:X:641:MET:HB2	1:e:479:ASN:HD21	1.81	0.46
1:Y:350:LEU:HD11	1:Y:397:LEU:HD22	1.97	0.46
1:Y:491:PHE:CZ	1:Y:509:LEU:HD11	2.51	0.46
1:c:479:ASN:HD21	1:o:641:MET:HB2	1.81	0.46
1:d:491:PHE:CZ	1:d:509:LEU:HD11	2.51	0.46
1:d:613:TRP:CE2	1:l:633:GLY:HA3	2.51	0.46
1:f:641:MET:HB2	1:g:479:ASN:HD21	1.80	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:g:279:TRP:CG	1:g:397:LEU:HD12	2.50	0.46
1:g:641:MET:HB2	1:h:479:ASN:HD21	1.80	0.46
1:h:296:TRP:O	1:h:300:ILE:HG12	2.16	0.46
1:m:722:ASP:C	1:s:262:ARG:HG2	2.39	0.46
1:n:296:TRP:O	1:n:300:ILE:HG12	2.16	0.46
1:n:491:PHE:CZ	1:n:509:LEU:HD11	2.51	0.46
1:p:295:ASP:OD1	1:p:298:ARG:NH1	2.47	0.46
1:r:434:ARG:HA	1:r:434:ARG:HD3	1.45	0.46
1:s:607:ILE:HA	1:s:611:MET:SD	2.55	0.46
1:w:571:GLU:HG3	1:x:391:ARG:NH2	2.30	0.46
1:x:350:LEU:HD11	1:x:397:LEU:HD22	1.97	0.46
1:z:641:MET:HB2	1:2:479:ASN:HD21	1.80	0.46
1:1:296:TRP:O	1:1:300:ILE:HG12	2.16	0.46
1:3:722:ASP:C	1:8:262:ARG:HG2	2.40	0.46
1:5:491:PHE:CZ	1:5:509:LEU:HD11	2.51	0.46
1:7:491:PHE:CZ	1:7:509:LEU:HD11	2.51	0.46
1:8:491:PHE:CZ	1:8:509:LEU:HD11	2.51	0.46
1:B:641:MET:HB2	1:L:479:ASN:HD21	1.80	0.46
1:C:641:MET:HB2	1:M:479:ASN:HD21	1.80	0.46
1:D:613:TRP:CE2	1:N:633:GLY:HA3	2.51	0.46
1:E:434:ARG:HD3	1:E:434:ARG:HA	1.45	0.46
1:G:491:PHE:CZ	1:G:509:LEU:HD11	2.51	0.46
1:G:607:ILE:HA	1:G:611:MET:SD	2.55	0.46
1:H:641:MET:HB2	1:Y:479:ASN:HD21	1.81	0.46
1:H:722:ASP:C	1:I:262:ARG:HG2	2.40	0.46
1:J:722:ASP:C	1:a:262:ARG:HG2	2.40	0.46
1:K:350:LEU:HD11	1:K:397:LEU:HD22	1.97	0.46
1:L:607:ILE:HA	1:L:611:MET:SD	2.55	0.46
1:N:722:ASP:C	1:m:262:ARG:HG2	2.40	0.46
1:O:607:ILE:HA	1:O:611:MET:SD	2.55	0.46
1:O:633:GLY:HA3	1:n:613:TRP:CE2	2.51	0.46
1:Q:350:LEU:HD11	1:Q:397:LEU:HD22	1.97	0.46
1:R:542:SER:OG	1:R:579:ASP:OD2	2.26	0.46
1:T:262:ARG:HG2	1:i:722:ASP:C	2.40	0.46
1:U:491:PHE:CZ	1:U:509:LEU:HD11	2.51	0.46
1:W:479:ASN:HD21	1:Y:641:MET:HB2	1.81	0.46
1:Y:279:TRP:CG	1:Y:397:LEU:HD12	2.50	0.46
1:Z:479:ASN:HD21	1:4:641:MET:HB2	1.80	0.46
1:Z:641:MET:HB2	1:3:479:ASN:HD21	1.81	0.46
1:a:350:LEU:HD11	1:a:397:LEU:HD22	1.97	0.46
1:c:391:ARG:NH2	1:p:571:GLU:HG3	2.30	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:d:607:ILE:HA	1:d:611:MET:SD	2.55	0.46
1:l:296:TRP:O	1:l:300:ILE:HG12	2.16	0.46
1:l:607:ILE:HA	1:l:611:MET:SD	2.55	0.46
1:q:491:PHE:CZ	1:q:509:LEU:HD11	2.51	0.46
1:r:262:ARG:HG2	1:x:722:ASP:C	2.39	0.46
1:t:491:PHE:CZ	1:t:509:LEU:HD11	2.51	0.46
1:t:607:ILE:HA	1:t:611:MET:SD	2.55	0.46
1:u:262:ARG:HG2	1:5:722:ASP:C	2.40	0.46
1:w:491:PHE:CZ	1:w:509:LEU:HD11	2.51	0.46
1:x:491:PHE:CZ	1:x:509:LEU:HD11	2.51	0.46
1:y:279:TRP:CG	1:y:397:LEU:HD12	2.50	0.46
1:y:434:ARG:HA	1:y:434:ARG:HD3	1.45	0.46
1:2:722:ASP:C	1:3:262:ARG:HG2	2.40	0.46
1:4:350:LEU:HD11	1:4:397:LEU:HD22	1.97	0.46
1:4:491:PHE:CZ	1:4:509:LEU:HD11	2.51	0.46
1:6:613:TRP:CE2	1:7:633:GLY:HA3	2.51	0.46
1:7:279:TRP:CG	1:7:397:LEU:HD12	2.50	0.46
1:7:350:LEU:HD11	1:7:397:LEU:HD22	1.97	0.46
1:A:479:ASN:HD21	1:G:641:MET:HB2	1.81	0.46
1:C:491:PHE:CZ	1:C:509:LEU:HD11	2.51	0.46
1:F:722:ASP:C	1:G:262:ARG:HG2	2.40	0.46
1:J:571:GLU:HG3	1:L:391:ARG:NH2	2.30	0.46
1:K:641:MET:HB2	1:8:479:ASN:HD21	1.80	0.46
1:P:607:ILE:HA	1:P:611:MET:SD	2.55	0.46
1:Q:491:PHE:CZ	1:Q:509:LEU:HD11	2.51	0.46
1:R:491:PHE:CZ	1:R:509:LEU:HD11	2.51	0.46
1:R:607:ILE:HA	1:R:611:MET:SD	2.55	0.46
1:S:296:TRP:O	1:S:300:ILE:HG12	2.16	0.46
1:S:607:ILE:HA	1:S:611:MET:SD	2.55	0.46
1:V:571:GLU:HG3	1:e:391:ARG:NH2	2.30	0.46
1:W:613:TRP:CE2	1:Y:633:GLY:HA3	2.51	0.46
1:X:350:LEU:HD11	1:X:397:LEU:HD22	1.97	0.46
1:X:391:ARG:NH2	1:e:571:GLU:HG3	2.30	0.46
1:X:633:GLY:HA3	1:e:613:TRP:CE2	2.51	0.46
1:Y:296:TRP:O	1:Y:300:ILE:HG12	2.16	0.46
1:Z:391:ARG:NH2	1:3:571:GLU:HG3	2.30	0.46
1:Z:633:GLY:HA3	1:3:613:TRP:CE2	2.51	0.46
1:a:491:PHE:CZ	1:a:509:LEU:HD11	2.51	0.46
1:c:571:GLU:HG3	1:o:391:ARG:NH2	2.30	0.46
1:c:613:TRP:CE2	1:o:633:GLY:HA3	2.51	0.46
1:f:262:ARG:HG2	1:z:722:ASP:C	2.40	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:g:296:TRP:O	1:g:300:ILE:HG12	2.16	0.46
1:g:491:PHE:CZ	1:g:509:LEU:HD11	2.51	0.46
1:i:633:GLY:HA3	1:k:613:TRP:CE2	2.51	0.46
1:j:607:ILE:HA	1:j:611:MET:SD	2.55	0.46
1:n:607:ILE:HA	1:n:611:MET:SD	2.55	0.46
1:q:607:ILE:HA	1:q:611:MET:SD	2.55	0.46
1:r:296:TRP:O	1:r:300:ILE:HG12	2.16	0.46
1:s:491:PHE:CZ	1:s:509:LEU:HD11	2.51	0.46
1:t:262:ARG:HG2	1:y:722:ASP:C	2.40	0.46
1:u:491:PHE:CZ	1:u:509:LEU:HD11	2.51	0.46
1:w:391:ARG:NH2	1:y:571:GLU:HG3	2.30	0.46
1:z:296:TRP:O	1:z:300:ILE:HG12	2.16	0.46
1:1:613:TRP:CE2	1:2:633:GLY:HA3	2.51	0.46
1:3:296:TRP:O	1:3:300:ILE:HG12	2.16	0.46
1:3:491:PHE:CZ	1:3:509:LEU:HD11	2.51	0.46
1:5:641:MET:HB2	1:7:479:ASN:HD21	1.81	0.46
1:6:479:ASN:HD21	1:7:641:MET:HB2	1.81	0.46
1:7:296:TRP:O	1:7:300:ILE:HG12	2.16	0.46
1:A:641:MET:HB2	1:I:479:ASN:HD21	1.80	0.46
1:B:613:TRP:CE2	1:J:633:GLY:HA3	2.51	0.46
1:C:296:TRP:O	1:C:300:ILE:HG12	2.16	0.46
1:D:479:ASN:HD21	1:N:641:MET:HB2	1.81	0.46
1:D:633:GLY:HA3	1:P:613:TRP:CE2	2.51	0.46
1:H:296:TRP:O	1:H:300:ILE:HG12	2.16	0.46
1:H:479:ASN:HD21	1:W:641:MET:HB2	1.81	0.46
1:I:491:PHE:CZ	1:I:509:LEU:HD11	2.51	0.46
1:L:296:TRP:O	1:L:300:ILE:HG12	2.16	0.46
1:O:491:PHE:CZ	1:O:509:LEU:HD11	2.51	0.46
1:O:571:GLU:HG3	1:m:391:ARG:NH2	2.30	0.46
1:S:613:TRP:CE2	1:U:633:GLY:HA3	2.51	0.46
1:U:279:TRP:CG	1:U:397:LEU:HD12	2.50	0.46
1:V:479:ASN:HD21	1:e:641:MET:HB2	1.80	0.46
1:W:491:PHE:CZ	1:W:509:LEU:HD11	2.51	0.46
1:X:296:TRP:O	1:X:300:ILE:HG12	2.16	0.46
1:Z:571:GLU:HG3	1:4:391:ARG:NH2	2.30	0.46
1:a:296:TRP:O	1:a:300:ILE:HG12	2.16	0.46
1:a:571:GLU:HG3	1:8:391:ARG:NH2	2.30	0.46
1:a:613:TRP:CE2	1:8:633:GLY:HA3	2.51	0.46
1:c:607:ILE:HA	1:c:611:MET:SD	2.55	0.46
1:c:641:MET:HB2	1:p:479:ASN:HD21	1.80	0.46
1:j:613:TRP:CE2	1:k:633:GLY:HA3	2.51	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:l:491:PHE:CZ	1:l:509:LEU:HD11	2.51	0.46
1:o:296:TRP:O	1:o:300:ILE:HG12	2.16	0.46
1:o:350:LEU:HD11	1:o:397:LEU:HD22	1.97	0.46
1:o:491:PHE:CZ	1:o:509:LEU:HD11	2.51	0.46
1:o:607:ILE:HA	1:o:611:MET:SD	2.55	0.46
1:r:279:TRP:CG	1:r:397:LEU:HD12	2.50	0.46
1:r:571:GLU:HG3	1:s:391:ARG:NH2	2.30	0.46
1:r:607:ILE:HA	1:r:611:MET:SD	2.55	0.46
1:r:613:TRP:CE2	1:s:633:GLY:HA3	2.51	0.46
1:x:607:ILE:HA	1:x:611:MET:SD	2.55	0.46
1:z:571:GLU:HG3	1:1:391:ARG:NH2	2.31	0.46
1:1:607:ILE:HA	1:1:611:MET:SD	2.55	0.46
1:3:350:LEU:HD11	1:3:397:LEU:HD22	1.97	0.46
1:6:491:PHE:CZ	1:6:509:LEU:HD11	2.51	0.46
1:C:613:TRP:CE2	1:b:633:GLY:HA3	2.51	0.46
1:E:288:HIS:ND1	1:E:364:PRO:HB3	2.31	0.46
1:F:434:ARG:HA	1:F:434:ARG:HD3	1.45	0.46
1:G:296:TRP:O	1:G:300:ILE:HG12	2.16	0.46
1:J:479:ASN:HD21	1:L:641:MET:HB2	1.80	0.46
1:K:391:ARG:NH2	1:8:571:GLU:HG3	2.30	0.46
1:K:613:TRP:CE2	1:a:633:GLY:HA3	2.51	0.46
1:L:491:PHE:CZ	1:L:509:LEU:HD11	2.51	0.46
1:M:491:PHE:CZ	1:M:509:LEU:HD11	2.51	0.46
1:N:296:TRP:O	1:N:300:ILE:HG12	2.16	0.46
1:O:613:TRP:CE2	1:m:633:GLY:HA3	2.51	0.46
1:P:296:TRP:O	1:P:300:ILE:HG12	2.16	0.46
1:Q:607:ILE:HA	1:Q:611:MET:SD	2.55	0.46
1:S:279:TRP:CG	1:S:397:LEU:HD12	2.50	0.46
1:S:571:GLU:HG3	1:U:391:ARG:NH2	2.30	0.46
1:T:391:ARG:NH2	1:l:571:GLU:HG3	2.30	0.46
1:T:633:GLY:HA3	1:l:613:TRP:CE2	2.51	0.46
1:V:613:TRP:CE2	1:e:633:GLY:HA3	2.51	0.46
1:W:279:TRP:CG	1:W:397:LEU:HD12	2.50	0.46
1:X:491:PHE:CZ	1:X:509:LEU:HD11	2.51	0.46
1:c:633:GLY:HA3	1:p:613:TRP:CE2	2.51	0.46
1:f:633:GLY:HA3	1:g:613:TRP:CE2	2.51	0.46
1:i:641:MET:HB2	1:k:479:ASN:HD21	1.81	0.46
1:j:296:TRP:O	1:j:300:ILE:HG12	2.16	0.46
1:s:279:TRP:CG	1:s:397:LEU:HD12	2.50	0.46
1:t:296:TRP:O	1:t:300:ILE:HG12	2.16	0.46
1:v:491:PHE:CZ	1:v:509:LEU:HD11	2.51	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:z:391:ARG:NH2	1:2:571:GLU:HG3	2.30	0.46
1:1:491:PHE:CZ	1:1:509:LEU:HD11	2.51	0.46
1:2:296:TRP:O	1:2:300:ILE:HG12	2.16	0.46
1:3:633:GLY:HA3	1:4:613:TRP:CE2	2.51	0.46
1:5:296:TRP:O	1:5:300:ILE:HG12	2.16	0.46
1:5:479:ASN:HD21	1:6:641:MET:HB2	1.81	0.46
1:6:279:TRP:CG	1:6:397:LEU:HD12	2.50	0.46
1:B:491:PHE:CZ	1:B:509:LEU:HD11	2.51	0.46
1:C:391:ARG:NH2	1:M:571:GLU:HG3	2.30	0.46
1:D:296:TRP:O	1:D:300:ILE:HG12	2.16	0.46
1:F:296:TRP:O	1:F:300:ILE:HG12	2.16	0.46
1:F:391:ARG:NH2	1:Q:571:GLU:HG3	2.30	0.46
1:G:613:TRP:CE2	1:I:633:GLY:HA3	2.51	0.46
1:J:296:TRP:O	1:J:300:ILE:HG12	2.16	0.46
1:R:571:GLU:HG3	1:S:391:ARG:NH2	2.30	0.46
1:T:479:ASN:HD21	1:d:641:MET:HB2	1.80	0.46
1:X:288:HIS:ND1	1:X:364:PRO:HB3	2.31	0.46
1:X:434:ARG:HA	1:X:434:ARG:HD3	1.45	0.46
1:X:607:ILE:HA	1:X:611:MET:SD	2.55	0.46
1:d:288:HIS:ND1	1:d:364:PRO:HB3	2.31	0.46
1:h:491:PHE:CZ	1:h:509:LEU:HD11	2.51	0.46
1:i:296:TRP:O	1:i:300:ILE:HG12	2.16	0.46
1:k:288:HIS:ND1	1:k:364:PRO:HB3	2.31	0.46
1:k:296:TRP:O	1:k:300:ILE:HG12	2.16	0.46
1:m:479:ASN:HD21	1:n:641:MET:HB2	1.80	0.46
1:n:288:HIS:ND1	1:n:364:PRO:HB3	2.31	0.46
1:p:607:ILE:HA	1:p:611:MET:SD	2.55	0.46
1:q:350:LEU:HD11	1:q:397:LEU:HD22	1.97	0.46
1:q:571:GLU:HG3	1:r:391:ARG:NH2	2.30	0.46
1:t:391:ARG:NH2	1:v:571:GLU:HG3	2.30	0.46
1:t:613:TRP:CE2	1:u:633:GLY:HA3	2.51	0.46
1:w:288:HIS:ND1	1:w:364:PRO:HB3	2.31	0.46
1:w:641:MET:HB2	1:y:479:ASN:HD21	1.81	0.46
1:y:296:TRP:O	1:y:300:ILE:HG12	2.16	0.46
1:z:479:ASN:HD21	1:1:641:MET:HB2	1.81	0.46
1:z:491:PHE:CZ	1:z:509:LEU:HD11	2.51	0.46
1:A:296:TRP:O	1:A:300:ILE:HG12	2.16	0.46
1:A:491:PHE:CZ	1:A:509:LEU:HD11	2.51	0.46
1:A:571:GLU:HG3	1:G:391:ARG:NH2	2.30	0.46
1:D:288:HIS:ND1	1:D:364:PRO:HB3	2.31	0.46
1:E:641:MET:HB2	1:F:479:ASN:HD21	1.81	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:279:TRP:CG	1:G:397:LEU:HD12	2.50	0.46
1:K:633:GLY:HA3	1:8:613:TRP:CE2	2.51	0.46
1:L:288:HIS:ND1	1:L:364:PRO:HB3	2.31	0.46
1:M:633:GLY:HA3	1:b:613:TRP:CE2	2.51	0.46
1:M:641:MET:HB2	1:b:479:ASN:HD21	1.81	0.46
1:S:288:HIS:ND1	1:S:364:PRO:HB3	2.31	0.46
1:S:491:PHE:CZ	1:S:509:LEU:HD11	2.51	0.46
1:U:288:HIS:ND1	1:U:364:PRO:HB3	2.31	0.46
1:V:607:ILE:HA	1:V:611:MET:SD	2.55	0.46
1:e:607:ILE:HA	1:e:611:MET:SD	2.55	0.46
1:f:613:TRP:CE2	1:h:633:GLY:HA3	2.51	0.46
1:g:391:ARG:NH2	1:h:571:GLU:HG3	2.30	0.46
1:g:542:SER:OG	1:g:579:ASP:OD2	2.26	0.46
1:h:288:HIS:ND1	1:h:364:PRO:HB3	2.31	0.46
1:i:607:ILE:HA	1:i:611:MET:SD	2.55	0.46
1:j:491:PHE:CZ	1:j:509:LEU:HD11	2.51	0.46
1:m:296:TRP:O	1:m:300:ILE:HG12	2.16	0.46
1:o:288:HIS:ND1	1:o:364:PRO:HB3	2.31	0.46
1:r:288:HIS:ND1	1:r:364:PRO:HB3	2.31	0.46
1:r:491:PHE:CZ	1:r:509:LEU:HD11	2.51	0.46
1:s:288:HIS:ND1	1:s:364:PRO:HB3	2.31	0.46
1:u:296:TRP:O	1:u:300:ILE:HG12	2.16	0.46
1:u:479:ASN:HD21	1:v:641:MET:HB2	1.80	0.46
1:x:571:GLU:HG3	1:y:391:ARG:NH2	2.30	0.46
1:1:479:ASN:HD21	1:2:641:MET:HB2	1.80	0.46
1:B:479:ASN:HD21	1:J:641:MET:HB2	1.80	0.46
1:B:607:ILE:HA	1:B:611:MET:SD	2.55	0.46
1:B:633:GLY:HA3	1:L:613:TRP:CE2	2.51	0.46
1:E:479:ASN:HD21	1:Q:641:MET:HB2	1.80	0.46
1:J:607:ILE:HA	1:J:611:MET:SD	2.55	0.46
1:J:613:TRP:CE2	1:L:633:GLY:HA3	2.51	0.46
1:K:296:TRP:O	1:K:300:ILE:HG12	2.16	0.46
1:M:288:HIS:ND1	1:M:364:PRO:HB3	2.31	0.46
1:O:288:HIS:ND1	1:O:364:PRO:HB3	2.31	0.46
1:P:491:PHE:CZ	1:P:509:LEU:HD11	2.51	0.46
1:R:350:LEU:HD11	1:R:397:LEU:HD22	1.97	0.46
1:Z:296:TRP:O	1:Z:300:ILE:HG12	2.16	0.46
1:Z:613:TRP:CE2	1:4:633:GLY:HA3	2.51	0.46
1:b:491:PHE:CZ	1:b:509:LEU:HD11	2.51	0.46
1:c:296:TRP:O	1:c:300:ILE:HG12	2.16	0.46
1:e:296:TRP:O	1:e:300:ILE:HG12	2.16	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:f:479:ASN:HD21	1:h:641:MET:HB2	1.81	0.46
1:l:288:HIS:ND1	1:l:364:PRO:HB3	2.31	0.46
1:o:479:ASN:HD21	1:p:641:MET:HB2	1.80	0.46
1:t:279:TRP:CG	1:t:397:LEU:HD12	2.50	0.46
1:t:542:SER:OG	1:t:579:ASP:OD2	2.26	0.46
1:u:613:TRP:CE2	1:v:633:GLY:HA3	2.51	0.46
1:v:296:TRP:O	1:v:300:ILE:HG12	2.16	0.46
1:v:607:ILE:HA	1:v:611:MET:SD	2.55	0.46
1:w:479:ASN:HD21	1:x:641:MET:HB2	1.80	0.46
1:z:288:HIS:ND1	1:z:364:PRO:HB3	2.31	0.46
1:8:607:ILE:HA	1:8:611:MET:SD	2.55	0.46
1:F:491:PHE:CZ	1:F:509:LEU:HD11	2.51	0.45
1:H:633:GLY:HA3	1:Y:613:TRP:CE2	2.51	0.45
1:I:296:TRP:O	1:I:300:ILE:HG12	2.16	0.45
1:I:350:LEU:HD11	1:I:397:LEU:HD22	1.97	0.45
1:K:288:HIS:ND1	1:K:364:PRO:HB3	2.31	0.45
1:N:607:ILE:HA	1:N:611:MET:SD	2.55	0.45
1:S:434:ARG:HD3	1:S:434:ARG:HA	1.45	0.45
1:S:479:ASN:HD21	1:U:641:MET:HB2	1.80	0.45
1:T:296:TRP:O	1:T:300:ILE:HG12	2.16	0.45
1:V:633:GLY:HA3	1:X:613:TRP:CE2	2.51	0.45
1:V:641:MET:HB2	1:X:479:ASN:HD21	1.80	0.45
1:W:607:ILE:HA	1:W:611:MET:SD	2.55	0.45
1:Z:607:ILE:HA	1:Z:611:MET:SD	2.55	0.45
1:d:350:LEU:HD11	1:d:397:LEU:HD22	1.97	0.45
1:f:491:PHE:CZ	1:f:509:LEU:HD11	2.51	0.45
1:j:288:HIS:ND1	1:j:364:PRO:HB3	2.31	0.45
1:k:350:LEU:HD11	1:k:397:LEU:HD22	1.97	0.45
1:n:350:LEU:HD11	1:n:397:LEU:HD22	1.97	0.45
1:o:571:GLU:HG3	1:p:391:ARG:NH2	2.30	0.45
1:p:491:PHE:CZ	1:p:509:LEU:HD11	2.51	0.45
1:t:350:LEU:HD11	1:t:397:LEU:HD22	1.97	0.45
1:u:350:LEU:HD11	1:u:397:LEU:HD22	1.97	0.45
1:w:633:GLY:HA3	1:y:613:TRP:CE2	2.51	0.45
1:x:288:HIS:ND1	1:x:364:PRO:HB3	2.31	0.45
1:z:613:TRP:CE2	1:1:633:GLY:HA3	2.51	0.45
1:4:288:HIS:ND1	1:4:364:PRO:HB3	2.31	0.45
1:8:288:HIS:ND1	1:8:364:PRO:HB3	2.31	0.45
1:8:296:TRP:O	1:8:300:ILE:HG12	2.16	0.45
1:A:607:ILE:HA	1:A:611:MET:SD	2.55	0.45
1:C:288:HIS:ND1	1:C:364:PRO:HB3	2.31	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:491:PHE:CZ	1:D:509:LEU:HD11	2.51	0.45
1:E:633:GLY:HA3	1:F:613:TRP:CE2	2.51	0.45
1:G:350:LEU:HD11	1:G:397:LEU:HD22	1.97	0.45
1:H:553:PRO:HD3	1:H:563:ASN:HB3	1.99	0.45
1:N:434:ARG:HD3	1:N:434:ARG:HA	1.45	0.45
1:N:491:PHE:CZ	1:N:509:LEU:HD11	2.51	0.45
1:P:288:HIS:ND1	1:P:364:PRO:HB3	2.31	0.45
1:V:391:ARG:NH2	1:X:571:GLU:HG3	2.30	0.45
1:V:491:PHE:CZ	1:V:509:LEU:HD11	2.51	0.45
1:Z:288:HIS:ND1	1:Z:364:PRO:HB3	2.31	0.45
1:b:288:HIS:ND1	1:b:364:PRO:HB3	2.31	0.45
1:c:491:PHE:CZ	1:c:509:LEU:HD11	2.51	0.45
1:e:491:PHE:CZ	1:e:509:LEU:HD11	2.51	0.45
1:f:288:HIS:ND1	1:f:364:PRO:HB3	2.31	0.45
1:f:296:TRP:O	1:f:300:ILE:HG12	2.16	0.45
1:g:321:LYS:NZ	1:g:334:ASN:OD1	2.32	0.45
1:m:613:TRP:CE2	1:n:633:GLY:HA3	2.51	0.45
1:o:613:TRP:CE2	1:p:633:GLY:HA3	2.51	0.45
1:x:296:TRP:O	1:x:300:ILE:HG12	2.16	0.45
1:y:491:PHE:CZ	1:y:509:LEU:HD11	2.51	0.45
1:2:491:PHE:CZ	1:2:509:LEU:HD11	2.51	0.45
1:2:607:ILE:HA	1:2:611:MET:SD	2.55	0.45
1:5:288:HIS:ND1	1:5:364:PRO:HB3	2.31	0.45
1:5:553:PRO:HD3	1:5:563:ASN:HB3	1.99	0.45
1:5:633:GLY:HA3	1:7:613:TRP:CE2	2.51	0.45
1:6:607:ILE:HA	1:6:611:MET:SD	2.55	0.45
1:A:288:HIS:ND1	1:A:364:PRO:HB3	2.31	0.45
1:B:288:HIS:ND1	1:B:364:PRO:HB3	2.31	0.45
1:C:542:SER:OG	1:C:579:ASP:OD2	2.26	0.45
1:D:350:LEU:HD11	1:D:397:LEU:HD22	1.97	0.45
1:D:385:ASN:HD21	1:D:387:ASN:ND2	2.15	0.45
1:E:385:ASN:HD21	1:E:387:ASN:ND2	2.15	0.45
1:G:288:HIS:ND1	1:G:364:PRO:HB3	2.31	0.45
1:H:288:HIS:ND1	1:H:364:PRO:HB3	2.31	0.45
1:I:288:HIS:ND1	1:I:364:PRO:HB3	2.31	0.45
1:N:613:TRP:CE2	1:P:633:GLY:HA3	2.51	0.45
1:Q:288:HIS:ND1	1:Q:364:PRO:HB3	2.31	0.45
1:Q:296:TRP:O	1:Q:300:ILE:HG12	2.16	0.45
1:R:613:TRP:CE2	1:S:633:GLY:HA3	2.51	0.45
1:T:424:SER:HB2	1:T:426:TYR:CE2	2.52	0.45
1:T:491:PHE:CZ	1:T:509:LEU:HD11	2.51	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:T:613:TRP:CE2	1:d:633:GLY:HA3	2.51	0.45
1:W:293:PRO:HB2	1:X:703:PRO:HD3	1.99	0.45
1:Z:385:ASN:HD21	1:Z:387:ASN:ND2	2.15	0.45
1:a:424:SER:HB2	1:a:426:TYR:CE2	2.52	0.45
1:b:296:TRP:O	1:b:300:ILE:HG12	2.16	0.45
1:g:288:HIS:ND1	1:g:364:PRO:HB3	2.31	0.45
1:i:491:PHE:CZ	1:i:509:LEU:HD11	2.51	0.45
1:i:613:TRP:CE2	1:j:633:GLY:HA3	2.51	0.45
1:k:385:ASN:HD21	1:k:387:ASN:ND2	2.15	0.45
1:k:491:PHE:CZ	1:k:509:LEU:HD11	2.51	0.45
1:m:424:SER:HB2	1:m:426:TYR:CE2	2.52	0.45
1:o:703:PRO:HD3	1:6:293:PRO:HB2	1.99	0.45
1:q:633:GLY:HA3	1:s:613:TRP:CE2	2.51	0.45
1:r:479:ASN:HD21	1:s:641:MET:HB2	1.80	0.45
1:t:288:HIS:ND1	1:t:364:PRO:HB3	2.31	0.45
1:v:288:HIS:ND1	1:v:364:PRO:HB3	2.31	0.45
1:w:385:ASN:HD21	1:w:387:ASN:ND2	2.15	0.45
1:1:288:HIS:ND1	1:1:364:PRO:HB3	2.31	0.45
1:4:296:TRP:O	1:4:300:ILE:HG12	2.16	0.45
1:A:613:TRP:CE2	1:G:633:GLY:HA3	2.50	0.45
1:A:633:GLY:HA3	1:I:613:TRP:CE2	2.52	0.45
1:D:424:SER:HB2	1:D:426:TYR:CE2	2.52	0.45
1:E:613:TRP:CE2	1:Q:633:GLY:HA3	2.51	0.45
1:H:385:ASN:HD21	1:H:387:ASN:ND2	2.15	0.45
1:J:308:PRO:HB2	1:J:417:PHE:CE2	2.52	0.45
1:J:491:PHE:CZ	1:J:509:LEU:HD11	2.51	0.45
1:J:553:PRO:HD3	1:J:563:ASN:HB3	1.99	0.45
1:R:288:HIS:ND1	1:R:364:PRO:HB3	2.31	0.45
1:R:296:TRP:O	1:R:300:ILE:HG12	2.16	0.45
1:R:633:GLY:HA3	1:U:613:TRP:CE2	2.51	0.45
1:T:308:PRO:HB2	1:T:417:PHE:CE2	2.52	0.45
1:Y:385:ASN:HD21	1:Y:387:ASN:ND2	2.15	0.45
1:g:300:ILE:HD12	1:g:737:PHE:CE2	2.52	0.45
1:g:607:ILE:HA	1:g:611:MET:SD	2.55	0.45
1:h:385:ASN:HD21	1:h:387:ASN:ND2	2.15	0.45
1:i:434:ARG:HD3	1:i:434:ARG:HA	1.45	0.45
1:j:479:ASN:HD21	1:k:641:MET:HB2	1.81	0.45
1:k:424:SER:HB2	1:k:426:TYR:CE2	2.52	0.45
1:m:491:PHE:CZ	1:m:509:LEU:HD11	2.51	0.45
1:q:613:TRP:CE2	1:r:633:GLY:HA3	2.51	0.45
1:u:288:HIS:ND1	1:u:364:PRO:HB3	2.31	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:u:385:ASN:HD21	1:u:387:ASN:ND2	2.15	0.45
1:w:613:TRP:CE2	1:x:633:GLY:HA3	2.51	0.45
1:3:424:SER:HB2	1:3:426:TYR:CE2	2.52	0.45
1:5:385:ASN:HD21	1:5:387:ASN:ND2	2.15	0.45
1:7:365:PHE:HB2	1:7:727:TYR:CD2	2.52	0.45
1:7:385:ASN:HD21	1:7:387:ASN:ND2	2.15	0.45
1:8:385:ASN:HD21	1:8:387:ASN:ND2	2.15	0.45
1:B:300:ILE:HD12	1:B:737:PHE:CE2	2.52	0.45
1:C:300:ILE:HD12	1:C:737:PHE:CE2	2.52	0.45
1:C:607:ILE:HA	1:C:611:MET:SD	2.55	0.45
1:D:300:ILE:HD12	1:D:737:PHE:CE2	2.52	0.45
1:D:548:PHE:HB2	1:D:565:LEU:HB2	1.99	0.45
1:H:308:PRO:HB2	1:H:417:PHE:CE2	2.52	0.45
1:K:424:SER:HB2	1:K:426:TYR:CE2	2.52	0.45
1:K:479:ASN:HD21	1:a:641:MET:HB2	1.80	0.45
1:L:424:SER:HB2	1:L:426:TYR:CE2	2.52	0.45
1:M:385:ASN:HD21	1:M:387:ASN:ND2	2.15	0.45
1:M:424:SER:HB2	1:M:426:TYR:CE2	2.52	0.45
1:R:365:PHE:HB2	1:R:727:TYR:CD2	2.52	0.45
1:S:300:ILE:HD12	1:S:737:PHE:CE2	2.52	0.45
1:g:553:PRO:HD3	1:g:563:ASN:HB3	1.99	0.45
1:k:300:ILE:HD12	1:k:737:PHE:CE2	2.52	0.45
1:l:300:ILE:HD12	1:l:737:PHE:CE2	2.52	0.45
1:m:288:HIS:ND1	1:m:364:PRO:HB3	2.31	0.45
1:m:308:PRO:HB2	1:m:417:PHE:CE2	2.52	0.45
1:q:288:HIS:ND1	1:q:364:PRO:HB3	2.31	0.45
1:q:365:PHE:HB2	1:q:727:TYR:CD2	2.52	0.45
1:q:641:MET:HB2	1:s:479:ASN:HD21	1.80	0.45
1:r:300:ILE:HD12	1:r:737:PHE:CE2	2.52	0.45
1:t:633:GLY:HA3	1:v:613:TRP:CE2	2.51	0.45
1:v:424:SER:HB2	1:v:426:TYR:CE2	2.52	0.45
1:z:365:PHE:HB2	1:z:727:TYR:CD2	2.52	0.45
1:z:424:SER:HB2	1:z:426:TYR:CE2	2.52	0.45
1:1:300:ILE:HD12	1:1:737:PHE:CE2	2.52	0.45
1:2:308:PRO:HB2	1:2:417:PHE:CE2	2.52	0.45
1:2:424:SER:HB2	1:2:426:TYR:CE2	2.52	0.45
1:2:553:PRO:HD3	1:2:563:ASN:HB3	1.99	0.45
1:5:308:PRO:HB2	1:5:417:PHE:CE2	2.52	0.45
1:6:288:HIS:ND1	1:6:364:PRO:HB3	2.31	0.45
1:A:424:SER:HB2	1:A:426:TYR:CE2	2.52	0.45
1:C:385:ASN:HD21	1:C:387:ASN:ND2	2.15	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:434:ARG:HD3	1:C:434:ARG:HA	1.45	0.45
1:C:553:PRO:HD3	1:C:563:ASN:HB3	1.99	0.45
1:D:365:PHE:HB2	1:D:727:TYR:CD2	2.52	0.45
1:D:641:MET:HB2	1:P:479:ASN:HD21	1.81	0.45
1:E:300:ILE:HD12	1:E:737:PHE:CE2	2.52	0.45
1:F:553:PRO:HD3	1:F:563:ASN:HB3	1.99	0.45
1:F:633:GLY:HA3	1:Q:613:TRP:CE2	2.51	0.45
1:G:300:ILE:HD12	1:G:737:PHE:CE2	2.52	0.45
1:G:385:ASN:HD21	1:G:387:ASN:ND2	2.15	0.45
1:G:571:GLU:HG3	1:I:391:ARG:NH2	2.30	0.45
1:I:385:ASN:HD21	1:I:387:ASN:ND2	2.15	0.45
1:J:300:ILE:HD12	1:J:737:PHE:CE2	2.52	0.45
1:J:424:SER:HB2	1:J:426:TYR:CE2	2.52	0.45
1:L:365:PHE:HB2	1:L:727:TYR:CD2	2.52	0.45
1:M:308:PRO:HB2	1:M:417:PHE:CE2	2.52	0.45
1:N:350:LEU:HD11	1:N:397:LEU:HD22	1.97	0.45
1:O:300:ILE:HD12	1:O:737:PHE:CE2	2.52	0.45
1:R:641:MET:HB2	1:U:479:ASN:HD21	1.80	0.45
1:T:288:HIS:ND1	1:T:364:PRO:HB3	2.31	0.45
1:W:288:HIS:ND1	1:W:364:PRO:HB3	2.31	0.45
1:Y:365:PHE:HB2	1:Y:727:TYR:CD2	2.52	0.45
1:Z:308:PRO:HB2	1:Z:417:PHE:CE2	2.52	0.45
1:c:308:PRO:HB2	1:c:417:PHE:CE2	2.52	0.45
1:e:288:HIS:ND1	1:e:364:PRO:HB3	2.31	0.45
1:e:308:PRO:HB2	1:e:417:PHE:CE2	2.52	0.45
1:h:308:PRO:HB2	1:h:417:PHE:CE2	2.52	0.45
1:h:424:SER:HB2	1:h:426:TYR:CE2	2.52	0.45
1:j:300:ILE:HD12	1:j:737:PHE:CE2	2.52	0.45
1:k:365:PHE:HB2	1:k:727:TYR:CD2	2.52	0.45
1:k:548:PHE:HB2	1:k:565:LEU:HB2	1.99	0.45
1:p:288:HIS:ND1	1:p:364:PRO:HB3	2.31	0.45
1:p:703:PRO:HD3	1:s:293:PRO:HB2	1.99	0.45
1:q:296:TRP:O	1:q:300:ILE:HG12	2.16	0.45
1:t:300:ILE:HD12	1:t:737:PHE:CE2	2.52	0.45
1:u:365:PHE:HB2	1:u:727:TYR:CD2	2.52	0.45
1:w:300:ILE:HD12	1:w:737:PHE:CE2	2.52	0.45
1:x:613:TRP:CE2	1:y:633:GLY:HA3	2.51	0.45
1:y:300:ILE:HD12	1:y:737:PHE:CE2	2.52	0.45
1:y:553:PRO:HD3	1:y:563:ASN:HB3	1.99	0.45
1:z:633:GLY:HA3	1:2:613:TRP:CE2	2.52	0.45
1:2:288:HIS:ND1	1:2:364:PRO:HB3	2.31	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:2:300:ILE:HD12	1:2:737:PHE:CE2	2.52	0.45
1:2:365:PHE:HB2	1:2:727:TYR:CD2	2.52	0.45
1:4:424:SER:HB2	1:4:426:TYR:CE2	2.52	0.45
1:4:434:ARG:HD3	1:4:434:ARG:HA	1.45	0.45
1:8:308:PRO:HB2	1:8:417:PHE:CE2	2.52	0.45
1:B:350:LEU:HD11	1:B:397:LEU:HD22	1.97	0.45
1:D:308:PRO:HB2	1:D:417:PHE:CE2	2.52	0.45
1:F:300:ILE:HD12	1:F:737:PHE:CE2	2.52	0.45
1:G:365:PHE:HB2	1:G:727:TYR:CD2	2.52	0.45
1:H:300:ILE:HD12	1:H:737:PHE:CE2	2.52	0.45
1:H:365:PHE:HB2	1:H:727:TYR:CD2	2.52	0.45
1:I:365:PHE:HB2	1:I:727:TYR:CD2	2.52	0.45
1:I:548:PHE:HB2	1:I:565:LEU:HB2	1.99	0.45
1:J:288:HIS:ND1	1:J:364:PRO:HB3	2.31	0.45
1:J:365:PHE:HB2	1:J:727:TYR:CD2	2.52	0.45
1:N:365:PHE:HB2	1:N:727:TYR:CD2	2.52	0.45
1:P:300:ILE:HD12	1:P:737:PHE:CE2	2.52	0.45
1:P:385:ASN:HD21	1:P:387:ASN:ND2	2.15	0.45
1:P:424:SER:HB2	1:P:426:TYR:CE2	2.52	0.45
1:R:300:ILE:HD12	1:R:737:PHE:CE2	2.52	0.45
1:U:293:PRO:HB2	1:V:703:PRO:HD3	1.99	0.45
1:U:296:TRP:O	1:U:300:ILE:HG12	2.16	0.45
1:W:308:PRO:HB2	1:W:417:PHE:CE2	2.52	0.45
1:W:424:SER:HB2	1:W:426:TYR:CE2	2.52	0.45
1:Y:703:PRO:HD3	1:Z:293:PRO:HB2	1.99	0.45
1:b:300:ILE:HD12	1:b:737:PHE:CE2	2.52	0.45
1:d:424:SER:HB2	1:d:426:TYR:CE2	2.52	0.45
1:e:300:ILE:HD12	1:e:737:PHE:CE2	2.52	0.45
1:f:300:ILE:HD12	1:f:737:PHE:CE2	2.52	0.45
1:g:385:ASN:HD21	1:g:387:ASN:ND2	2.15	0.45
1:i:479:ASN:HD21	1:j:641:MET:HB2	1.81	0.45
1:j:385:ASN:HD21	1:j:387:ASN:ND2	2.15	0.45
1:j:424:SER:HB2	1:j:426:TYR:CE2	2.52	0.45
1:k:308:PRO:HB2	1:k:417:PHE:CE2	2.52	0.45
1:l:424:SER:HB2	1:l:426:TYR:CE2	2.52	0.45
1:m:293:PRO:HB2	1:r:703:PRO:HD3	1.99	0.45
1:o:385:ASN:HD21	1:o:387:ASN:ND2	2.15	0.45
1:o:434:ARG:HA	1:o:434:ARG:HD3	1.45	0.45
1:q:300:ILE:HD12	1:q:737:PHE:CE2	2.52	0.45
1:s:296:TRP:O	1:s:300:ILE:HG12	2.16	0.45
1:t:365:PHE:HB2	1:t:727:TYR:CD2	2.52	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:t:385:ASN:HD21	1:t:387:ASN:ND2	2.15	0.45
1:t:571:GLU:HG3	1:u:391:ARG:NH2	2.30	0.45
1:u:548:PHE:HB2	1:u:565:LEU:HB2	1.99	0.45
1:2:385:ASN:HD21	1:2:387:ASN:ND2	2.15	0.45
1:3:641:MET:HB2	1:4:479:ASN:HD21	1.80	0.45
1:6:365:PHE:HB2	1:6:727:TYR:CD2	2.52	0.45
1:6:424:SER:HB2	1:6:426:TYR:CE2	2.52	0.45
1:7:703:PRO:HD3	1:8:293:PRO:HB2	1.99	0.45
1:B:703:PRO:HD3	1:I:293:PRO:HB2	1.99	0.45
1:G:308:PRO:HB2	1:G:417:PHE:CE2	2.52	0.45
1:J:385:ASN:HD21	1:J:387:ASN:ND2	2.15	0.45
1:K:300:ILE:HD12	1:K:737:PHE:CE2	2.52	0.45
1:N:703:PRO:HD3	1:O:293:PRO:HB2	1.99	0.45
1:O:365:PHE:HB2	1:O:727:TYR:CD2	2.52	0.45
1:O:424:SER:HB2	1:O:426:TYR:CE2	2.52	0.45
1:O:641:MET:HB2	1:n:479:ASN:HD21	1.81	0.45
1:P:308:PRO:HB2	1:P:417:PHE:CE2	2.52	0.45
1:Q:365:PHE:HB2	1:Q:727:TYR:CD2	2.52	0.45
1:S:703:PRO:HD3	1:T:293:PRO:HB2	1.99	0.45
1:V:288:HIS:ND1	1:V:364:PRO:HB3	2.31	0.45
1:V:365:PHE:HB2	1:V:727:TYR:CD2	2.52	0.45
1:W:365:PHE:HB2	1:W:727:TYR:CD2	2.52	0.45
1:X:385:ASN:HD21	1:X:387:ASN:ND2	2.15	0.45
1:Y:293:PRO:HB2	1:Z:703:PRO:HD3	1.99	0.45
1:Z:553:PRO:HD3	1:Z:563:ASN:HB3	1.99	0.45
1:a:293:PRO:HB2	1:3:703:PRO:HD3	1.99	0.45
1:a:703:PRO:HD3	1:3:293:PRO:HB2	1.99	0.45
1:c:288:HIS:ND1	1:c:364:PRO:HB3	2.31	0.45
1:c:300:ILE:HD12	1:c:737:PHE:CE2	2.52	0.45
1:d:365:PHE:HB2	1:d:727:TYR:CD2	2.52	0.45
1:f:365:PHE:HB2	1:f:727:TYR:CD2	2.52	0.45
1:i:300:ILE:HD12	1:i:737:PHE:CE2	2.52	0.45
1:i:350:LEU:HD11	1:i:397:LEU:HD22	1.97	0.45
1:i:365:PHE:HB2	1:i:727:TYR:CD2	2.52	0.45
1:i:703:PRO:HD3	1:l:293:PRO:HB2	1.99	0.45
1:l:365:PHE:HB2	1:l:727:TYR:CD2	2.52	0.45
1:n:308:PRO:HB2	1:n:417:PHE:CE2	2.52	0.45
1:n:424:SER:HB2	1:n:426:TYR:CE2	2.52	0.45
1:o:300:ILE:HD12	1:o:737:PHE:CE2	2.52	0.45
1:p:365:PHE:HB2	1:p:727:TYR:CD2	2.52	0.45
1:p:424:SER:HB2	1:p:426:TYR:CE2	2.52	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:t:308:PRO:HB2	1:t:417:PHE:CE2	2.52	0.45
1:u:293:PRO:HB2	1:l:703:PRO:HD3	1.99	0.45
1:u:308:PRO:HB2	1:u:417:PHE:CE2	2.52	0.45
1:u:424:SER:HB2	1:u:426:TYR:CE2	2.52	0.45
1:v:703:PRO:HD3	1:y:293:PRO:HB2	1.99	0.45
1:x:300:ILE:HD12	1:x:737:PHE:CE2	2.52	0.45
1:x:365:PHE:HB2	1:x:727:TYR:CD2	2.52	0.45
1:1:365:PHE:HB2	1:1:727:TYR:CD2	2.52	0.45
1:5:300:ILE:HD12	1:5:737:PHE:CE2	2.52	0.45
1:5:365:PHE:HB2	1:5:727:TYR:CD2	2.52	0.45
1:6:308:PRO:HB2	1:6:417:PHE:CE2	2.52	0.45
1:8:553:PRO:HD3	1:8:563:ASN:HB3	1.99	0.45
1:B:365:PHE:HB2	1:B:727:TYR:CD2	2.52	0.45
1:C:308:PRO:HB2	1:C:417:PHE:CE2	2.52	0.45
1:E:293:PRO:HB2	1:P:703:PRO:HD3	1.99	0.45
1:I:308:PRO:HB2	1:I:417:PHE:CE2	2.52	0.45
1:I:424:SER:HB2	1:I:426:TYR:CE2	2.52	0.45
1:K:385:ASN:HD21	1:K:387:ASN:ND2	2.15	0.45
1:K:548:PHE:HB2	1:K:565:LEU:HB2	1.99	0.45
1:N:300:ILE:HD12	1:N:737:PHE:CE2	2.52	0.45
1:N:479:ASN:HD21	1:P:641:MET:HB2	1.81	0.45
1:Q:300:ILE:HD12	1:Q:737:PHE:CE2	2.52	0.45
1:T:365:PHE:HB2	1:T:727:TYR:CD2	2.52	0.45
1:T:548:PHE:HB2	1:T:565:LEU:HB2	1.99	0.45
1:V:424:SER:HB2	1:V:426:TYR:CE2	2.52	0.45
1:X:300:ILE:HD12	1:X:737:PHE:CE2	2.52	0.45
1:Y:308:PRO:HB2	1:Y:417:PHE:CE2	2.52	0.45
1:Y:424:SER:HB2	1:Y:426:TYR:CE2	2.52	0.45
1:b:365:PHE:HB2	1:b:727:TYR:CD2	2.52	0.45
1:c:424:SER:HB2	1:c:426:TYR:CE2	2.52	0.45
1:d:308:PRO:HB2	1:d:417:PHE:CE2	2.52	0.45
1:d:385:ASN:HD21	1:d:387:ASN:ND2	2.15	0.45
1:e:293:PRO:HB2	1:f:703:PRO:HD3	1.99	0.45
1:f:385:ASN:HD21	1:f:387:ASN:ND2	2.15	0.45
1:g:308:PRO:HB2	1:g:417:PHE:CE2	2.52	0.45
1:j:308:PRO:HB2	1:j:417:PHE:CE2	2.52	0.45
1:j:703:PRO:HD3	1:w:293:PRO:HB2	1.99	0.45
1:m:365:PHE:HB2	1:m:727:TYR:CD2	2.52	0.45
1:n:365:PHE:HB2	1:n:727:TYR:CD2	2.52	0.45
1:n:385:ASN:HD21	1:n:387:ASN:ND2	2.15	0.45
1:x:385:ASN:HD21	1:x:387:ASN:ND2	2.15	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:y:288:HIS:ND1	1:y:364:PRO:HB3	2.31	0.45
1:1:308:PRO:HB2	1:1:417:PHE:CE2	2.52	0.45
1:1:350:LEU:HD11	1:1:397:LEU:HD22	1.97	0.45
1:4:300:ILE:HD12	1:4:737:PHE:CE2	2.52	0.45
1:4:548:PHE:HB2	1:4:565:LEU:HB2	1.99	0.45
1:7:293:PRO:HB2	1:8:703:PRO:HD3	1.99	0.45
1:A:308:PRO:HB2	1:A:417:PHE:CE2	2.52	0.45
1:A:385:ASN:HD21	1:A:387:ASN:ND2	2.15	0.45
1:A:703:PRO:HD3	1:F:293:PRO:HB2	1.99	0.45
1:E:308:PRO:HB2	1:E:417:PHE:CE2	2.52	0.45
1:E:365:PHE:HB2	1:E:727:TYR:CD2	2.52	0.45
1:E:553:PRO:HD3	1:E:563:ASN:HB3	1.99	0.45
1:E:703:PRO:HD3	1:P:293:PRO:HB2	1.99	0.45
1:F:288:HIS:ND1	1:F:364:PRO:HB3	2.31	0.45
1:H:613:TRP:CE2	1:W:633:GLY:HA3	2.51	0.45
1:K:308:PRO:HB2	1:K:417:PHE:CE2	2.52	0.45
1:M:300:ILE:HD12	1:M:737:PHE:CE2	2.52	0.45
1:M:365:PHE:HB2	1:M:727:TYR:CD2	2.52	0.45
1:N:293:PRO:HB2	1:O:703:PRO:HD3	1.99	0.45
1:Q:293:PRO:HB2	1:R:703:PRO:HD3	1.99	0.45
1:U:703:PRO:HD3	1:V:293:PRO:HB2	1.99	0.45
1:W:553:PRO:HD3	1:W:563:ASN:HB3	1.99	0.45
1:Z:365:PHE:HB2	1:Z:727:TYR:CD2	2.52	0.45
1:a:385:ASN:HD21	1:a:387:ASN:ND2	2.15	0.45
1:b:553:PRO:HD3	1:b:563:ASN:HB3	1.99	0.45
1:b:703:PRO:HD3	1:c:293:PRO:HB2	1.99	0.45
1:c:365:PHE:HB2	1:c:727:TYR:CD2	2.52	0.45
1:e:365:PHE:HB2	1:e:727:TYR:CD2	2.52	0.45
1:e:424:SER:HB2	1:e:426:TYR:CE2	2.52	0.45
1:f:553:PRO:HD3	1:f:563:ASN:HB3	1.99	0.45
1:g:434:ARG:HD3	1:g:434:ARG:HA	1.45	0.45
1:g:633:GLY:HA3	1:h:613:TRP:CE2	2.51	0.45
1:l:553:PRO:HD3	1:l:563:ASN:HB3	1.99	0.45
1:m:548:PHE:HB2	1:m:565:LEU:HB2	1.99	0.45
1:p:293:PRO:HB2	1:s:703:PRO:HD3	1.99	0.45
1:q:548:PHE:HB2	1:q:565:LEU:HB2	1.99	0.45
1:q:703:PRO:HD3	1:x:293:PRO:HB2	1.99	0.45
1:v:308:PRO:HB2	1:v:417:PHE:CE2	2.52	0.45
1:w:308:PRO:HB2	1:w:417:PHE:CE2	2.52	0.45
1:w:365:PHE:HB2	1:w:727:TYR:CD2	2.52	0.45
1:w:553:PRO:HD3	1:w:563:ASN:HB3	1.99	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:x:308:PRO:HB2	1:x:417:PHE:CE2	2.52	0.45
1:y:424:SER:HB2	1:y:426:TYR:CE2	2.52	0.45
1:z:308:PRO:HB2	1:z:417:PHE:CE2	2.52	0.45
1:2:434:ARG:HA	1:2:434:ARG:HD3	1.45	0.45
1:4:308:PRO:HB2	1:4:417:PHE:CE2	2.52	0.45
1:4:385:ASN:HD21	1:4:387:ASN:ND2	2.15	0.45
1:7:424:SER:HB2	1:7:426:TYR:CE2	2.52	0.45
1:8:365:PHE:HB2	1:8:727:TYR:CD2	2.52	0.45
1:8:424:SER:HB2	1:8:426:TYR:CE2	2.52	0.45
1:C:703:PRO:HD3	1:L:293:PRO:HB2	1.99	0.44
1:F:424:SER:HB2	1:F:426:TYR:CE2	2.52	0.44
1:I:300:ILE:HD12	1:I:737:PHE:CE2	2.52	0.44
1:J:293:PRO:HB2	1:K:703:PRO:HD3	1.99	0.44
1:O:385:ASN:HD21	1:O:387:ASN:ND2	2.15	0.44
1:O:553:PRO:HD3	1:O:563:ASN:HB3	1.99	0.44
1:P:553:PRO:HD3	1:P:563:ASN:HB3	1.99	0.44
1:Q:308:PRO:HB2	1:Q:417:PHE:CE2	2.52	0.44
1:Q:385:ASN:HD21	1:Q:387:ASN:ND2	2.15	0.44
1:R:548:PHE:HB2	1:R:565:LEU:HB2	1.99	0.44
1:S:553:PRO:HD3	1:S:563:ASN:HB3	1.99	0.44
1:U:350:LEU:HD11	1:U:397:LEU:HD22	1.97	0.44
1:V:308:PRO:HB2	1:V:417:PHE:CE2	2.52	0.44
1:V:385:ASN:HD21	1:V:387:ASN:ND2	2.15	0.44
1:Y:288:HIS:ND1	1:Y:364:PRO:HB3	2.31	0.44
1:Z:424:SER:HB2	1:Z:426:TYR:CE2	2.52	0.44
1:a:365:PHE:HB2	1:a:727:TYR:CD2	2.52	0.44
1:b:308:PRO:HB2	1:b:417:PHE:CE2	2.52	0.44
1:b:385:ASN:HD21	1:b:387:ASN:ND2	2.15	0.44
1:b:434:ARG:HA	1:b:434:ARG:HD3	1.45	0.44
1:d:300:ILE:HD12	1:d:737:PHE:CE2	2.52	0.44
1:d:479:ASN:HD21	1:l:641:MET:HB2	1.81	0.44
1:e:548:PHE:HB2	1:e:565:LEU:HB2	1.99	0.44
1:f:308:PRO:HB2	1:f:417:PHE:CE2	2.52	0.44
1:h:293:PRO:HB2	1:k:703:PRO:HD3	1.99	0.44
1:h:300:ILE:HD12	1:h:737:PHE:CE2	2.52	0.44
1:h:365:PHE:HB2	1:h:727:TYR:CD2	2.52	0.44
1:i:288:HIS:ND1	1:i:364:PRO:HB3	2.31	0.44
1:i:293:PRO:HB2	1:l:703:PRO:HD3	1.99	0.44
1:j:293:PRO:HB2	1:w:703:PRO:HD3	1.99	0.44
1:k:434:ARG:HD3	1:k:434:ARG:HA	1.45	0.44
1:m:300:ILE:HD12	1:m:737:PHE:CE2	2.52	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:n:300:ILE:HD12	1:n:737:PHE:CE2	2.52	0.44
1:o:424:SER:HB2	1:o:426:TYR:CE2	2.52	0.44
1:p:308:PRO:HB2	1:p:417:PHE:CE2	2.52	0.44
1:q:424:SER:HB2	1:q:426:TYR:CE2	2.52	0.44
1:r:553:PRO:HD3	1:r:563:ASN:HB3	1.99	0.44
1:s:542:SER:OG	1:s:579:ASP:OD2	2.26	0.44
1:v:385:ASN:HD21	1:v:387:ASN:ND2	2.15	0.44
1:w:548:PHE:HB2	1:w:565:LEU:HB2	1.99	0.44
1:y:385:ASN:HD21	1:y:387:ASN:ND2	2.15	0.44
1:1:424:SER:HB2	1:1:426:TYR:CE2	2.52	0.44
1:3:288:HIS:ND1	1:3:364:PRO:HB3	2.31	0.44
1:3:385:ASN:HD21	1:3:387:ASN:ND2	2.15	0.44
1:5:613:TRP:CE2	1:6:633:GLY:HA3	2.51	0.44
1:6:553:PRO:HD3	1:6:563:ASN:HB3	1.99	0.44
1:7:288:HIS:ND1	1:7:364:PRO:HB3	2.31	0.44
1:7:300:ILE:HD12	1:7:737:PHE:CE2	2.52	0.44
1:7:308:PRO:HB2	1:7:417:PHE:CE2	2.52	0.44
1:A:365:PHE:HB2	1:A:727:TYR:CD2	2.52	0.44
1:A:549:ALA:HB2	1:I:445:TRP:NE1	2.33	0.44
1:B:308:PRO:HB2	1:B:417:PHE:CE2	2.52	0.44
1:B:385:ASN:HD21	1:B:387:ASN:ND2	2.15	0.44
1:C:548:PHE:HB2	1:C:565:LEU:HB2	1.99	0.44
1:C:633:GLY:HA3	1:M:613:TRP:CE2	2.51	0.44
1:D:293:PRO:HB2	1:M:703:PRO:HD3	1.99	0.44
1:D:703:PRO:HD3	1:M:293:PRO:HB2	1.99	0.44
1:E:548:PHE:HB2	1:E:565:LEU:HB2	1.99	0.44
1:F:308:PRO:HB2	1:F:417:PHE:CE2	2.52	0.44
1:F:365:PHE:HB2	1:F:727:TYR:CD2	2.52	0.44
1:H:424:SER:HB2	1:H:426:TYR:CE2	2.52	0.44
1:K:365:PHE:HB2	1:K:727:TYR:CD2	2.52	0.44
1:K:553:PRO:HD3	1:K:563:ASN:HB3	1.99	0.44
1:L:308:PRO:HB2	1:L:417:PHE:CE2	2.52	0.44
1:N:288:HIS:ND1	1:N:364:PRO:HB3	2.31	0.44
1:N:385:ASN:HD21	1:N:387:ASN:ND2	2.15	0.44
1:N:424:SER:HB2	1:N:426:TYR:CE2	2.52	0.44
1:O:308:PRO:HB2	1:O:417:PHE:CE2	2.52	0.44
1:O:548:PHE:HB2	1:O:565:LEU:HB2	1.99	0.44
1:R:424:SER:HB2	1:R:426:TYR:CE2	2.52	0.44
1:S:385:ASN:HD21	1:S:387:ASN:ND2	2.15	0.44
1:U:542:SER:OG	1:U:579:ASP:OD2	2.26	0.44
1:X:424:SER:HB2	1:X:426:TYR:CE2	2.52	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Y:300:ILE:HD12	1:Y:737:PHE:CE2	2.52	0.44
1:b:424:SER:HB2	1:b:426:TYR:CE2	2.52	0.44
1:c:548:PHE:HB2	1:c:565:LEU:HB2	1.99	0.44
1:h:703:PRO:HD3	1:k:293:PRO:HB2	1.99	0.44
1:i:424:SER:HB2	1:i:426:TYR:CE2	2.52	0.44
1:j:553:PRO:HD3	1:j:563:ASN:HB3	1.99	0.44
1:l:308:PRO:HB2	1:l:417:PHE:CE2	2.52	0.44
1:l:385:ASN:HD21	1:l:387:ASN:ND2	2.15	0.44
1:m:434:ARG:HD3	1:m:434:ARG:HA	1.45	0.44
1:p:385:ASN:HD21	1:p:387:ASN:ND2	2.15	0.44
1:s:350:LEU:HD11	1:s:397:LEU:HD22	1.97	0.44
1:s:553:PRO:HD3	1:s:563:ASN:HB3	1.99	0.44
1:u:300:ILE:HD12	1:u:737:PHE:CE2	2.52	0.44
1:y:308:PRO:HB2	1:y:417:PHE:CE2	2.52	0.44
1:y:365:PHE:HB2	1:y:727:TYR:CD2	2.52	0.44
1:1:385:ASN:HD21	1:1:387:ASN:ND2	2.15	0.44
1:3:365:PHE:HB2	1:3:727:TYR:CD2	2.52	0.44
1:4:553:PRO:HD3	1:4:563:ASN:HB3	1.99	0.44
1:5:424:SER:HB2	1:5:426:TYR:CE2	2.52	0.44
1:6:300:ILE:HD12	1:6:737:PHE:CE2	2.52	0.44
1:B:293:PRO:HB2	1:I:703:PRO:HD3	1.99	0.44
1:B:424:SER:HB2	1:B:426:TYR:CE2	2.52	0.44
1:F:385:ASN:HD21	1:F:387:ASN:ND2	2.15	0.44
1:J:548:PHE:HB2	1:J:565:LEU:HB2	1.99	0.44
1:R:553:PRO:HD3	1:R:563:ASN:HB3	1.99	0.44
1:T:300:ILE:HD12	1:T:737:PHE:CE2	2.52	0.44
1:U:553:PRO:HD3	1:U:563:ASN:HB3	1.99	0.44
1:W:300:ILE:HD12	1:W:737:PHE:CE2	2.52	0.44
1:W:385:ASN:HD21	1:W:387:ASN:ND2	2.15	0.44
1:a:288:HIS:ND1	1:a:364:PRO:HB3	2.31	0.44
1:a:300:ILE:HD12	1:a:737:PHE:CE2	2.52	0.44
1:c:553:PRO:HD3	1:c:563:ASN:HB3	1.99	0.44
1:e:553:PRO:HD3	1:e:563:ASN:HB3	1.99	0.44
1:f:424:SER:HB2	1:f:426:TYR:CE2	2.52	0.44
1:g:293:PRO:HB2	1:z:703:PRO:HD3	1.98	0.44
1:g:424:SER:HB2	1:g:426:TYR:CE2	2.52	0.44
1:g:548:PHE:HB2	1:g:565:LEU:HB2	1.99	0.44
1:h:434:ARG:HD3	1:h:434:ARG:HA	1.45	0.44
1:l:548:PHE:HB2	1:l:565:LEU:HB2	1.99	0.44
1:q:553:PRO:HD3	1:q:563:ASN:HB3	1.99	0.44
1:r:385:ASN:HD21	1:r:387:ASN:ND2	2.15	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:s:300:ILE:HD12	1:s:737:PHE:CE2	2.52	0.44
1:s:424:SER:HB2	1:s:426:TYR:CE2	2.52	0.44
1:2:293:PRO:HB2	1:4:703:PRO:HD3	1.99	0.44
1:4:365:PHE:HB2	1:4:727:TYR:CD2	2.52	0.44
1:8:548:PHE:HB2	1:8:565:LEU:HB2	1.99	0.44
1:E:424:SER:HB2	1:E:426:TYR:CE2	2.52	0.44
1:G:703:PRO:HD3	1:H:293:PRO:HB2	1.99	0.44
1:J:703:PRO:HD3	1:K:293:PRO:HB2	1.99	0.44
1:K:434:ARG:HD3	1:K:434:ARG:HA	1.45	0.44
1:S:548:PHE:HB2	1:S:565:LEU:HB2	1.99	0.44
1:T:445:TRP:NE1	1:d:549:ALA:HB2	2.33	0.44
1:U:300:ILE:HD12	1:U:737:PHE:CE2	2.52	0.44
1:U:424:SER:HB2	1:U:426:TYR:CE2	2.52	0.44
1:W:548:PHE:HB2	1:W:565:LEU:HB2	1.99	0.44
1:Z:548:PHE:HB2	1:Z:565:LEU:HB2	1.99	0.44
1:d:553:PRO:HD3	1:d:563:ASN:HB3	1.99	0.44
1:i:385:ASN:HD21	1:i:387:ASN:ND2	2.15	0.44
1:r:365:PHE:HB2	1:r:727:TYR:CD2	2.52	0.44
1:r:548:PHE:HB2	1:r:565:LEU:HB2	1.99	0.44
1:s:385:ASN:HD21	1:s:387:ASN:ND2	2.15	0.44
1:v:365:PHE:HB2	1:v:727:TYR:CD2	2.52	0.44
1:y:548:PHE:HB2	1:y:565:LEU:HB2	1.99	0.44
1:2:548:PHE:HB2	1:2:565:LEU:HB2	1.99	0.44
1:2:703:PRO:HD3	1:4:293:PRO:HB2	1.99	0.44
1:3:300:ILE:HD12	1:3:737:PHE:CE2	2.52	0.44
1:6:385:ASN:HD21	1:6:387:ASN:ND2	2.15	0.44
1:6:548:PHE:HB2	1:6:565:LEU:HB2	1.99	0.44
1:A:293:PRO:HB2	1:F:703:PRO:HD3	1.99	0.44
1:B:553:PRO:HD3	1:B:563:ASN:HB3	1.99	0.44
1:C:424:SER:HB2	1:C:426:TYR:CE2	2.52	0.44
1:F:548:PHE:HB2	1:F:565:LEU:HB2	1.99	0.44
1:G:548:PHE:HB2	1:G:565:LEU:HB2	1.99	0.44
1:Q:553:PRO:HD3	1:Q:563:ASN:HB3	1.99	0.44
1:S:365:PHE:HB2	1:S:727:TYR:CD2	2.52	0.44
1:T:385:ASN:HD21	1:T:387:ASN:ND2	2.15	0.44
1:Y:553:PRO:HD3	1:Y:563:ASN:HB3	1.99	0.44
1:c:385:ASN:HD21	1:c:387:ASN:ND2	2.15	0.44
1:d:548:PHE:HB2	1:d:565:LEU:HB2	1.99	0.44
1:e:385:ASN:HD21	1:e:387:ASN:ND2	2.15	0.44
1:i:308:PRO:HB2	1:i:417:PHE:CE2	2.52	0.44
1:m:445:TRP:NE1	1:n:549:ALA:HB2	2.33	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:n:553:PRO:HD3	1:n:563:ASN:HB3	1.99	0.44
1:t:703:PRO:HD3	1:5:293:PRO:HB2	1.99	0.44
1:u:445:TRP:NE1	1:v:549:ALA:HB2	2.33	0.44
1:u:703:PRO:HD3	1:1:293:PRO:HB2	1.99	0.44
1:v:293:PRO:HB2	1:y:703:PRO:HD3	1.99	0.44
1:w:424:SER:HB2	1:w:426:TYR:CE2	2.52	0.44
1:z:385:ASN:HD21	1:z:387:ASN:ND2	2.15	0.44
1:D:549:ALA:HB2	1:P:445:TRP:NE1	2.33	0.44
1:L:385:ASN:HD21	1:L:387:ASN:ND2	2.15	0.44
1:N:308:PRO:HB2	1:N:417:PHE:CE2	2.52	0.44
1:R:385:ASN:HD21	1:R:387:ASN:ND2	2.15	0.44
1:U:385:ASN:HD21	1:U:387:ASN:ND2	2.15	0.44
1:X:365:PHE:HB2	1:X:727:TYR:CD2	2.52	0.44
1:X:553:PRO:HD3	1:X:563:ASN:HB3	1.99	0.44
1:Y:434:ARG:HD3	1:Y:434:ARG:HA	1.45	0.44
1:Z:300:ILE:HD12	1:Z:737:PHE:CE2	2.52	0.44
1:a:308:PRO:HB2	1:a:417:PHE:CE2	2.52	0.44
1:g:365:PHE:HB2	1:g:727:TYR:CD2	2.52	0.44
1:j:445:TRP:NE1	1:k:549:ALA:HB2	2.33	0.44
1:m:385:ASN:HD21	1:m:387:ASN:ND2	2.15	0.44
1:m:553:PRO:HD3	1:m:563:ASN:HB3	1.99	0.44
1:n:548:PHE:HB2	1:n:565:LEU:HB2	1.99	0.44
1:q:385:ASN:HD21	1:q:387:ASN:ND2	2.15	0.44
1:q:549:ALA:HB2	1:s:445:TRP:NE1	2.33	0.44
1:t:548:PHE:HB2	1:t:565:LEU:HB2	1.99	0.44
1:x:424:SER:HB2	1:x:426:TYR:CE2	2.52	0.44
1:1:553:PRO:HD3	1:1:563:ASN:HB3	1.99	0.44
1:3:308:PRO:HB2	1:3:417:PHE:CE2	2.52	0.44
1:5:549:ALA:HB2	1:7:445:TRP:NE1	2.33	0.44
1:7:553:PRO:HD3	1:7:563:ASN:HB3	1.99	0.44
1:B:548:PHE:HB2	1:B:565:LEU:HB2	1.99	0.44
1:C:293:PRO:HB2	1:L:703:PRO:HD3	1.99	0.44
1:C:365:PHE:HB2	1:C:727:TYR:CD2	2.52	0.44
1:D:434:ARG:HD3	1:D:434:ARG:HA	1.45	0.44
1:F:549:ALA:HB2	1:Q:445:TRP:NE1	2.33	0.44
1:G:445:TRP:NE1	1:I:549:ALA:HB2	2.33	0.44
1:H:549:ALA:HB2	1:Y:445:TRP:NE1	2.33	0.44
1:I:553:PRO:HD3	1:I:563:ASN:HB3	1.99	0.44
1:K:542:SER:OG	1:K:579:ASP:OD2	2.26	0.44
1:L:548:PHE:HB2	1:L:565:LEU:HB2	1.99	0.44
1:L:553:PRO:HD3	1:L:563:ASN:HB3	1.99	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:P:548:PHE:HB2	1:P:565:LEU:HB2	1.99	0.44
1:Q:418:GLU:OE2	1:Q:647:LYS:N	2.51	0.44
1:R:308:PRO:HB2	1:R:417:PHE:CE2	2.52	0.44
1:R:549:ALA:HB2	1:U:445:TRP:NE1	2.33	0.44
1:T:553:PRO:HD3	1:T:563:ASN:HB3	1.99	0.44
1:U:418:GLU:OE2	1:U:647:LYS:N	2.51	0.44
1:V:553:PRO:HD3	1:V:563:ASN:HB3	1.99	0.44
1:X:308:PRO:HB2	1:X:417:PHE:CE2	2.52	0.44
1:X:489:GLN:HE22	1:e:591:GLN:H	1.66	0.44
1:a:553:PRO:HD3	1:a:563:ASN:HB3	1.99	0.44
1:c:549:ALA:HB2	1:p:445:TRP:NE1	2.33	0.44
1:c:591:GLN:H	1:o:489:GLN:HE22	1.66	0.44
1:d:703:PRO:HD3	1:n:293:PRO:HB2	1.99	0.44
1:f:501:ILE:N	1:g:450:THR:OG1	2.44	0.44
1:g:703:PRO:HD3	1:z:293:PRO:HB2	2.00	0.44
1:i:445:TRP:NE1	1:j:549:ALA:HB2	2.33	0.44
1:p:553:PRO:HD3	1:p:563:ASN:HB3	1.99	0.44
1:q:308:PRO:HB2	1:q:417:PHE:CE2	2.52	0.44
1:t:445:TRP:NE1	1:u:549:ALA:HB2	2.33	0.44
1:u:553:PRO:HD3	1:u:563:ASN:HB3	1.99	0.44
1:x:418:GLU:OE2	1:x:647:LYS:N	2.51	0.44
1:x:445:TRP:NE1	1:y:549:ALA:HB2	2.33	0.44
1:x:553:PRO:HD3	1:x:563:ASN:HB3	1.99	0.44
1:z:548:PHE:HB2	1:z:565:LEU:HB2	1.99	0.44
1:z:549:ALA:HB2	1:2:445:TRP:NE1	2.32	0.44
1:1:548:PHE:HB2	1:1:565:LEU:HB2	1.99	0.44
1:5:548:PHE:HB2	1:5:565:LEU:HB2	1.99	0.44
1:7:434:ARG:HD3	1:7:434:ARG:HA	1.45	0.44
1:A:501:ILE:N	1:I:450:THR:OG1	2.44	0.44
1:C:450:THR:OG1	1:b:501:ILE:N	2.44	0.44
1:H:548:PHE:HB2	1:H:565:LEU:HB2	1.99	0.44
1:I:434:ARG:HD3	1:I:434:ARG:HA	1.45	0.44
1:J:434:ARG:HD3	1:J:434:ARG:HA	1.45	0.44
1:K:445:TRP:NE1	1:a:549:ALA:HB2	2.33	0.44
1:N:445:TRP:NE1	1:P:549:ALA:HB2	2.33	0.44
1:Q:424:SER:HB2	1:Q:426:TYR:CE2	2.52	0.44
1:V:445:TRP:NE1	1:e:549:ALA:HB2	2.33	0.44
1:Y:484:ALA:HB2	1:Y:607:ILE:HG13	2.00	0.44
1:a:548:PHE:HB2	1:a:565:LEU:HB2	1.99	0.44
1:b:293:PRO:HB2	1:c:703:PRO:HD3	1.99	0.44
1:d:293:PRO:HB2	1:n:703:PRO:HD3	1.99	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:f:434:ARG:HD3	1:f:434:ARG:HA	1.45	0.44
1:g:484:ALA:HB2	1:g:607:ILE:HG13	2.00	0.44
1:i:418:GLU:OE2	1:i:647:LYS:N	2.51	0.44
1:j:548:PHE:HB2	1:j:565:LEU:HB2	1.99	0.44
1:o:308:PRO:HB2	1:o:417:PHE:CE2	2.52	0.44
1:o:365:PHE:HB2	1:o:727:TYR:CD2	2.52	0.44
1:o:553:PRO:HD3	1:o:563:ASN:HB3	1.99	0.44
1:s:418:GLU:OE2	1:s:647:LYS:N	2.51	0.44
1:t:293:PRO:HB2	1:5:703:PRO:HD3	1.99	0.44
1:t:549:ALA:HB2	1:v:445:TRP:NE1	2.33	0.44
1:t:553:PRO:HD3	1:t:563:ASN:HB3	1.99	0.44
1:z:553:PRO:HD3	1:z:563:ASN:HB3	1.99	0.44
1:3:548:PHE:HB2	1:3:565:LEU:HB2	1.99	0.44
1:3:553:PRO:HD3	1:3:563:ASN:HB3	1.99	0.44
1:7:484:ALA:HB2	1:7:607:ILE:HG13	2.00	0.44
1:8:300:ILE:HD12	1:8:737:PHE:CE2	2.52	0.44
1:A:445:TRP:NE1	1:G:549:ALA:HB2	2.33	0.44
1:C:484:ALA:HB2	1:C:607:ILE:HG13	2.00	0.44
1:D:553:PRO:HD3	1:D:563:ASN:HB3	1.99	0.44
1:G:293:PRO:HB2	1:H:703:PRO:HD3	1.99	0.44
1:G:553:PRO:HD3	1:G:563:ASN:HB3	1.99	0.44
1:L:418:GLU:OE2	1:L:647:LYS:N	2.51	0.44
1:O:549:ALA:HB2	1:n:445:TRP:NE1	2.33	0.44
1:P:365:PHE:HB2	1:P:727:TYR:CD2	2.52	0.44
1:R:591:GLN:H	1:S:489:GLN:HE22	1.66	0.44
1:S:293:PRO:HB2	1:T:703:PRO:HD3	1.99	0.44
1:S:308:PRO:HB2	1:S:417:PHE:CE2	2.52	0.44
1:U:308:PRO:HB2	1:U:417:PHE:CE2	2.52	0.44
1:V:300:ILE:HD12	1:V:737:PHE:CE2	2.52	0.44
1:W:418:GLU:OE2	1:W:647:LYS:N	2.51	0.44
1:X:418:GLU:OE2	1:X:647:LYS:N	2.51	0.44
1:e:703:PRO:HD3	1:f:293:PRO:HB2	1.99	0.44
1:j:365:PHE:HB2	1:j:727:TYR:CD2	2.52	0.44
1:k:553:PRO:HD3	1:k:563:ASN:HB3	1.99	0.44
1:m:703:PRO:HD3	1:r:293:PRO:HB2	1.99	0.44
1:p:300:ILE:HD12	1:p:737:PHE:CE2	2.52	0.44
1:q:484:ALA:HB2	1:q:607:ILE:HG13	2.00	0.44
1:q:591:GLN:H	1:r:489:GLN:HE22	1.66	0.44
1:s:308:PRO:HB2	1:s:417:PHE:CE2	2.52	0.44
1:v:553:PRO:HD3	1:v:563:ASN:HB3	1.99	0.44
1:x:484:ALA:HB2	1:x:607:ILE:HG13	2.00	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:z:418:GLU:OE2	1:z:647:LYS:N	2.51	0.44
1:3:549:ALA:HB2	1:4:445:TRP:NE1	2.33	0.44
1:5:636:HIS:O	1:5:638:SER:N	2.50	0.44
1:6:445:TRP:NE1	1:7:549:ALA:HB2	2.33	0.44
1:A:553:PRO:HD3	1:A:563:ASN:HB3	1.99	0.43
1:B:549:ALA:HB2	1:L:445:TRP:NE1	2.33	0.43
1:D:418:GLU:OE2	1:D:647:LYS:N	2.51	0.43
1:I:418:GLU:OE2	1:I:647:LYS:N	2.51	0.43
1:M:549:ALA:HB2	1:b:445:TRP:NE1	2.33	0.43
1:N:418:GLU:OE2	1:N:647:LYS:N	2.51	0.43
1:N:484:ALA:HB2	1:N:607:ILE:HG13	2.00	0.43
1:N:548:PHE:HB2	1:N:565:LEU:HB2	1.99	0.43
1:O:445:TRP:NE1	1:m:549:ALA:HB2	2.33	0.43
1:P:418:GLU:OE2	1:P:647:LYS:N	2.51	0.43
1:Q:484:ALA:HB2	1:Q:607:ILE:HG13	2.00	0.43
1:Q:703:PRO:HD3	1:R:293:PRO:HB2	1.99	0.43
1:R:484:ALA:HB2	1:R:607:ILE:HG13	2.00	0.43
1:T:549:ALA:HB2	1:l:445:TRP:NE1	2.33	0.43
1:U:484:ALA:HB2	1:U:607:ILE:HG13	2.00	0.43
1:U:548:PHE:HB2	1:U:565:LEU:HB2	1.99	0.43
1:V:418:GLU:OE2	1:V:647:LYS:N	2.51	0.43
1:W:445:TRP:NE1	1:Y:549:ALA:HB2	2.33	0.43
1:X:484:ALA:HB2	1:X:607:ILE:HG13	2.00	0.43
1:Z:501:ILE:N	1:3:450:THR:OG1	2.44	0.43
1:d:445:TRP:NE1	1:l:549:ALA:HB2	2.33	0.43
1:d:484:ALA:HB2	1:d:607:ILE:HG13	2.00	0.43
1:i:484:ALA:HB2	1:i:607:ILE:HG13	2.00	0.43
1:n:484:ALA:HB2	1:n:607:ILE:HG13	2.00	0.43
1:o:418:GLU:OE2	1:o:647:LYS:N	2.51	0.43
1:o:484:ALA:HB2	1:o:607:ILE:HG13	2.00	0.43
1:s:548:PHE:HB2	1:s:565:LEU:HB2	1.99	0.43
1:t:424:SER:HB2	1:t:426:TYR:CE2	2.52	0.43
1:u:450:THR:OG1	1:v:501:ILE:N	2.44	0.43
1:z:300:ILE:HD12	1:z:737:PHE:CE2	2.52	0.43
1:1:418:GLU:OE2	1:1:647:LYS:N	2.51	0.43
1:6:418:GLU:OE2	1:6:647:LYS:N	2.51	0.43
1:A:418:GLU:OE2	1:A:647:LYS:N	2.51	0.43
1:B:418:GLU:OE2	1:B:647:LYS:N	2.51	0.43
1:C:668:PHE:HA	1:D:371:MET:SD	2.59	0.43
1:D:450:THR:OG1	1:N:501:ILE:N	2.44	0.43
1:G:424:SER:HB2	1:G:426:TYR:CE2	2.52	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:636:HIS:O	1:H:638:SER:N	2.50	0.43
1:L:300:ILE:HD12	1:L:737:PHE:CE2	2.52	0.43
1:M:489:GLN:HE22	1:b:591:GLN:H	1.66	0.43
1:S:418:GLU:OE2	1:S:647:LYS:N	2.51	0.43
1:Y:542:SER:OG	1:Y:579:ASP:OD2	2.26	0.43
1:Z:484:ALA:HB2	1:Z:607:ILE:HG13	2.00	0.43
1:Z:489:GLN:HE22	1:3:591:GLN:H	1.66	0.43
1:a:450:THR:OG1	1:8:501:ILE:N	2.44	0.43
1:e:636:HIS:O	1:e:638:SER:N	2.50	0.43
1:f:445:TRP:NE1	1:h:549:ALA:HB2	2.33	0.43
1:g:668:PHE:HA	1:k:371:MET:SD	2.59	0.43
1:i:548:PHE:HB2	1:i:565:LEU:HB2	1.99	0.43
1:i:553:PRO:HD3	1:i:563:ASN:HB3	1.99	0.43
1:j:418:GLU:OE2	1:j:647:LYS:N	2.51	0.43
1:k:418:GLU:OE2	1:k:647:LYS:N	2.51	0.43
1:o:293:PRO:HB2	1:6:703:PRO:HD3	1.99	0.43
1:p:418:GLU:OE2	1:p:647:LYS:N	2.51	0.43
1:r:308:PRO:HB2	1:r:417:PHE:CE2	2.52	0.43
1:s:484:ALA:HB2	1:s:607:ILE:HG13	2.00	0.43
1:u:418:GLU:OE2	1:u:647:LYS:N	2.51	0.43
1:y:418:GLU:OE2	1:y:647:LYS:N	2.51	0.43
1:z:445:TRP:NE1	1:1:549:ALA:HB2	2.33	0.43
1:z:542:SER:OG	1:z:579:ASP:OD2	2.26	0.43
1:5:418:GLU:OE2	1:5:647:LYS:N	2.51	0.43
1:7:418:GLU:OE2	1:7:647:LYS:N	2.51	0.43
1:7:548:PHE:HB2	1:7:565:LEU:HB2	1.99	0.43
1:8:484:ALA:HB2	1:8:607:ILE:HG13	2.00	0.43
1:B:591:GLN:H	1:J:489:GLN:HE22	1.66	0.43
1:D:608:VAL:HG22	1:D:609:PRO:HD2	2.01	0.43
1:E:418:GLU:OE2	1:E:647:LYS:N	2.51	0.43
1:E:549:ALA:HB2	1:F:445:TRP:NE1	2.33	0.43
1:F:418:GLU:OE2	1:F:647:LYS:N	2.51	0.43
1:F:489:GLN:HE22	1:Q:591:GLN:H	1.67	0.43
1:H:371:MET:SD	1:I:668:PHE:HA	2.59	0.43
1:H:418:GLU:OE2	1:H:647:LYS:N	2.51	0.43
1:P:608:VAL:HG22	1:P:609:PRO:HD2	2.01	0.43
1:S:424:SER:HB2	1:S:426:TYR:CE2	2.52	0.43
1:T:418:GLU:OE2	1:T:647:LYS:N	2.51	0.43
1:V:548:PHE:HB2	1:V:565:LEU:HB2	1.99	0.43
1:V:668:PHE:HA	1:W:371:MET:SD	2.59	0.43
1:W:703:PRO:HD3	1:X:293:PRO:HB2	1.99	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:X:549:ALA:HB2	1:e:445:TRP:NE1	2.33	0.43
1:Y:418:GLU:OE2	1:Y:647:LYS:N	2.51	0.43
1:Y:548:PHE:HB2	1:Y:565:LEU:HB2	1.99	0.43
1:a:418:GLU:OE2	1:a:647:LYS:N	2.51	0.43
1:a:591:GLN:H	1:8:489:GLN:HE22	1.66	0.43
1:a:608:VAL:HG22	1:a:609:PRO:HD2	2.01	0.43
1:c:445:TRP:NE1	1:o:549:ALA:HB2	2.33	0.43
1:f:591:GLN:H	1:h:489:GLN:HE22	1.66	0.43
1:k:608:VAL:HG22	1:k:609:PRO:HD2	2.01	0.43
1:m:418:GLU:OE2	1:m:647:LYS:N	2.51	0.43
1:o:608:VAL:HG22	1:o:609:PRO:HD2	2.01	0.43
1:p:548:PHE:HB2	1:p:565:LEU:HB2	1.99	0.43
1:q:293:PRO:HB2	1:x:703:PRO:HD3	1.99	0.43
1:r:418:GLU:OE2	1:r:647:LYS:N	2.51	0.43
1:r:445:TRP:NE1	1:s:549:ALA:HB2	2.33	0.43
1:s:365:PHE:HB2	1:s:727:TYR:CD2	2.52	0.43
1:u:434:ARG:HD3	1:u:434:ARG:HA	1.45	0.43
1:u:668:PHE:HA	1:5:371:MET:SD	2.59	0.43
1:v:418:GLU:OE2	1:v:647:LYS:N	2.51	0.43
1:x:591:GLN:H	1:y:489:GLN:HE22	1.67	0.43
1:3:608:VAL:HG22	1:3:609:PRO:HD2	2.01	0.43
1:B:484:ALA:HB2	1:B:607:ILE:HG13	2.00	0.43
1:C:591:GLN:H	1:b:489:GLN:HE22	1.67	0.43
1:G:608:VAL:HG22	1:G:609:PRO:HD2	2.01	0.43
1:H:445:TRP:NE1	1:W:549:ALA:HB2	2.33	0.43
1:K:608:VAL:HG22	1:K:609:PRO:HD2	2.01	0.43
1:K:668:PHE:HA	1:7:371:MET:SD	2.59	0.43
1:N:436:MET:H	1:N:436:MET:HG2	1.65	0.43
1:N:553:PRO:HD3	1:N:563:ASN:HB3	1.99	0.43
1:O:484:ALA:HB2	1:O:607:ILE:HG13	2.00	0.43
1:S:445:TRP:NE1	1:U:549:ALA:HB2	2.33	0.43
1:U:365:PHE:HB2	1:U:727:TYR:CD2	2.52	0.43
1:X:608:VAL:HG22	1:X:609:PRO:HD2	2.01	0.43
1:Z:549:ALA:HB2	1:3:445:TRP:NE1	2.33	0.43
1:a:484:ALA:HB2	1:a:607:ILE:HG13	2.00	0.43
1:b:548:PHE:HB2	1:b:565:LEU:HB2	1.99	0.43
1:c:636:HIS:O	1:c:638:SER:N	2.50	0.43
1:d:608:VAL:HG22	1:d:609:PRO:HD2	2.01	0.43
1:f:489:GLN:HE22	1:g:591:GLN:H	1.66	0.43
1:g:549:ALA:HB2	1:h:445:TRP:NE1	2.33	0.43
1:i:501:ILE:N	1:k:450:THR:OG1	2.44	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:j:608:VAL:HG22	1:j:609:PRO:HD2	2.01	0.43
1:n:608:VAL:HG22	1:n:609:PRO:HD2	2.01	0.43
1:p:668:PHE:HA	1:6:371:MET:SD	2.59	0.43
1:r:424:SER:HB2	1:r:426:TYR:CE2	2.52	0.43
1:v:300:ILE:HD12	1:v:737:PHE:CE2	2.52	0.43
1:w:418:GLU:OE2	1:w:647:LYS:N	2.51	0.43
1:w:549:ALA:HB2	1:y:445:TRP:NE1	2.33	0.43
1:1:542:SER:OG	1:1:579:ASP:OD2	2.26	0.43
1:1:591:GLN:H	1:2:489:GLN:HE22	1.66	0.43
1:3:418:GLU:OE2	1:3:647:LYS:N	2.51	0.43
1:5:489:GLN:HE22	1:7:591:GLN:H	1.66	0.43
1:8:434:ARG:HD3	1:8:434:ARG:HA	1.45	0.43
1:A:300:ILE:HD12	1:A:737:PHE:CE2	2.52	0.43
1:A:548:PHE:HB2	1:A:565:LEU:HB2	1.99	0.43
1:C:549:ALA:HB2	1:M:445:TRP:NE1	2.33	0.43
1:D:489:GLN:HE22	1:P:591:GLN:H	1.66	0.43
1:E:436:MET:H	1:E:436:MET:HG2	1.65	0.43
1:G:418:GLU:OE2	1:G:647:LYS:N	2.51	0.43
1:H:489:GLN:HE22	1:Y:591:GLN:H	1.66	0.43
1:L:542:SER:OG	1:L:579:ASP:OD2	2.26	0.43
1:P:371:MET:SD	1:Q:668:PHE:HA	2.59	0.43
1:Q:434:ARG:HD3	1:Q:434:ARG:HA	1.45	0.43
1:Q:548:PHE:HB2	1:Q:565:LEU:HB2	1.99	0.43
1:R:445:TRP:NE1	1:S:549:ALA:HB2	2.33	0.43
1:S:484:ALA:HB2	1:S:607:ILE:HG13	2.00	0.43
1:Z:632:ASP:OD1	1:3:614:GLN:HA	2.19	0.43
1:a:614:GLN:HA	1:8:632:ASP:OD1	2.19	0.43
1:f:418:GLU:OE2	1:f:647:LYS:N	2.51	0.43
1:f:548:PHE:HB2	1:f:565:LEU:HB2	1.99	0.43
1:i:542:SER:OG	1:i:579:ASP:OD2	2.26	0.43
1:j:371:MET:SD	1:x:668:PHE:HA	2.59	0.43
1:j:591:GLN:H	1:k:489:GLN:HE22	1.66	0.43
1:l:484:ALA:HB2	1:l:607:ILE:HG13	2.00	0.43
1:q:312:ARG:NE	1:q:412:GLU:OE2	2.41	0.43
1:r:608:VAL:HG22	1:r:609:PRO:HD2	2.01	0.43
1:t:608:VAL:HG22	1:t:609:PRO:HD2	2.01	0.43
1:x:548:PHE:HB2	1:x:565:LEU:HB2	1.99	0.43
1:3:484:ALA:HB2	1:3:607:ILE:HG13	2.00	0.43
1:4:484:ALA:HB2	1:4:607:ILE:HG13	2.00	0.43
1:4:608:VAL:HG22	1:4:609:PRO:HD2	2.01	0.43
1:5:445:TRP:NE1	1:6:549:ALA:HB2	2.33	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:6:591:GLN:H	1:7:489:GLN:HE22	1.66	0.43
1:A:434:ARG:HD3	1:A:434:ARG:HA	1.45	0.43
1:A:450:THR:OG1	1:G:501:ILE:N	2.44	0.43
1:D:354:MET:HB2	1:D:652:GLN:HE21	1.84	0.43
1:D:445:TRP:NE1	1:N:549:ALA:HB2	2.33	0.43
1:E:354:MET:HB2	1:E:652:GLN:HE21	1.84	0.43
1:H:501:ILE:N	1:Y:450:THR:OG1	2.44	0.43
1:K:484:ALA:HB2	1:K:607:ILE:HG13	2.00	0.43
1:M:418:GLU:OE2	1:M:647:LYS:N	2.51	0.43
1:M:548:PHE:HB2	1:M:565:LEU:HB2	1.99	0.43
1:P:354:MET:HB2	1:P:652:GLN:HE21	1.84	0.43
1:R:312:ARG:NE	1:R:412:GLU:OE2	2.41	0.43
1:R:418:GLU:OE2	1:R:647:LYS:N	2.51	0.43
1:S:608:VAL:HG22	1:S:609:PRO:HD2	2.01	0.43
1:V:549:ALA:HB2	1:X:445:TRP:NE1	2.33	0.43
1:W:591:GLN:H	1:Y:489:GLN:HE22	1.66	0.43
1:X:548:PHE:HB2	1:X:565:LEU:HB2	1.99	0.43
1:Y:371:MET:SD	1:4:668:PHE:HA	2.59	0.43
1:a:445:TRP:NE1	1:8:549:ALA:HB2	2.33	0.43
1:b:418:GLU:OE2	1:b:647:LYS:N	2.51	0.43
1:b:484:ALA:HB2	1:b:607:ILE:HG13	2.00	0.43
1:h:418:GLU:OE2	1:h:647:LYS:N	2.51	0.43
1:i:549:ALA:HB2	1:k:445:TRP:NE1	2.33	0.43
1:k:354:MET:HB2	1:k:652:GLN:HE21	1.84	0.43
1:m:636:HIS:O	1:m:638:SER:N	2.49	0.43
1:o:445:TRP:NE1	1:p:549:ALA:HB2	2.33	0.43
1:p:484:ALA:HB2	1:p:607:ILE:HG13	2.00	0.43
1:q:418:GLU:OE2	1:q:647:LYS:N	2.51	0.43
1:r:484:ALA:HB2	1:r:607:ILE:HG13	2.00	0.43
1:s:636:HIS:O	1:s:638:SER:N	2.50	0.43
1:t:418:GLU:OE2	1:t:647:LYS:N	2.51	0.43
1:t:501:ILE:N	1:v:450:THR:OG1	2.44	0.43
1:w:354:MET:HB2	1:w:652:GLN:HE21	1.84	0.43
1:w:489:GLN:HE22	1:y:591:GLN:H	1.66	0.43
1:1:445:TRP:NE1	1:2:549:ALA:HB2	2.33	0.43
1:1:484:ALA:HB2	1:1:607:ILE:HG13	2.00	0.43
1:4:418:GLU:OE2	1:4:647:LYS:N	2.51	0.43
1:A:608:VAL:HG22	1:A:609:PRO:HD2	2.01	0.43
1:B:542:SER:OG	1:B:579:ASP:OD2	2.26	0.43
1:E:489:GLN:HE22	1:F:591:GLN:H	1.66	0.43
1:G:450:THR:OG1	1:I:501:ILE:N	2.43	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:484:ALA:HB2	1:I:607:ILE:HG13	2.00	0.43
1:J:445:TRP:NE1	1:L:549:ALA:HB2	2.33	0.43
1:M:279:TRP:CD1	1:M:397:LEU:HD12	2.54	0.43
1:N:279:TRP:CD1	1:N:397:LEU:HD12	2.54	0.43
1:R:608:VAL:HG22	1:R:609:PRO:HD2	2.01	0.43
1:V:484:ALA:HB2	1:V:607:ILE:HG13	2.00	0.43
1:W:312:ARG:NE	1:W:412:GLU:OE2	2.41	0.43
1:W:614:GLN:HA	1:Y:632:ASP:OD1	2.19	0.43
1:Z:608:VAL:HG22	1:Z:609:PRO:HD2	2.01	0.43
1:c:354:MET:HB2	1:c:652:GLN:HE21	1.84	0.43
1:c:608:VAL:HG22	1:c:609:PRO:HD2	2.01	0.43
1:d:418:GLU:OE2	1:d:647:LYS:N	2.51	0.43
1:e:354:MET:HB2	1:e:652:GLN:HE21	1.84	0.43
1:e:608:VAL:HG22	1:e:609:PRO:HD2	2.01	0.43
1:f:484:ALA:HB2	1:f:607:ILE:HG13	2.00	0.43
1:f:608:VAL:HG22	1:f:609:PRO:HD2	2.01	0.43
1:h:279:TRP:CD1	1:h:397:LEU:HD12	2.54	0.43
1:h:548:PHE:HB2	1:h:565:LEU:HB2	1.99	0.43
1:h:553:PRO:HD3	1:h:563:ASN:HB3	1.99	0.43
1:i:279:TRP:CD1	1:i:397:LEU:HD12	2.54	0.43
1:i:608:VAL:HG22	1:i:609:PRO:HD2	2.01	0.43
1:q:445:TRP:NE1	1:r:549:ALA:HB2	2.33	0.43
1:q:608:VAL:HG22	1:q:609:PRO:HD2	2.01	0.43
1:u:484:ALA:HB2	1:u:607:ILE:HG13	2.00	0.43
1:u:591:GLN:H	1:v:489:GLN:HE22	1.67	0.43
1:v:548:PHE:HB2	1:v:565:LEU:HB2	1.99	0.43
1:x:434:ARG:HD3	1:x:434:ARG:HA	1.45	0.43
1:2:542:SER:OG	1:2:579:ASP:OD2	2.26	0.43
1:3:279:TRP:CD1	1:3:397:LEU:HD12	2.54	0.43
1:8:418:GLU:OE2	1:8:647:LYS:N	2.51	0.43
1:A:270:ASN:ND2	1:I:472:ASP:HA	2.34	0.43
1:B:279:TRP:CD1	1:B:397:LEU:HD12	2.54	0.43
1:D:484:ALA:HB2	1:D:607:ILE:HG13	2.00	0.43
1:D:632:ASP:OD1	1:P:614:GLN:HA	2.19	0.43
1:F:636:HIS:O	1:F:638:SER:N	2.50	0.43
1:G:591:GLN:H	1:I:489:GLN:HE22	1.67	0.43
1:H:354:MET:HB2	1:H:652:GLN:HE21	1.84	0.43
1:I:608:VAL:HG22	1:I:609:PRO:HD2	2.01	0.43
1:K:354:MET:HB2	1:K:652:GLN:HE21	1.84	0.43
1:K:418:GLU:OE2	1:K:647:LYS:N	2.51	0.43
1:M:553:PRO:HD3	1:M:563:ASN:HB3	1.99	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:371:MET:SD	1:m:668:PHE:HA	2.59	0.43
1:N:608:VAL:HG22	1:N:609:PRO:HD2	2.01	0.43
1:T:243:THR:HG21	1:T:688:GLN:HE21	1.84	0.43
1:T:668:PHE:HA	1:i:371:MET:SD	2.59	0.43
1:U:354:MET:HB2	1:U:652:GLN:HE21	1.84	0.43
1:U:636:HIS:O	1:U:638:SER:N	2.50	0.43
1:V:489:GLN:HE22	1:X:591:GLN:H	1.67	0.43
1:W:279:TRP:CD1	1:W:397:LEU:HD12	2.54	0.43
1:Y:354:MET:HB2	1:Y:652:GLN:HE21	1.84	0.43
1:Y:636:HIS:O	1:Y:638:SER:N	2.50	0.43
1:Z:418:GLU:OE2	1:Z:647:LYS:N	2.51	0.43
1:Z:434:ARG:HD3	1:Z:434:ARG:HA	1.45	0.43
1:a:279:TRP:CD1	1:a:397:LEU:HD12	2.54	0.43
1:b:279:TRP:CD1	1:b:397:LEU:HD12	2.54	0.43
1:b:608:VAL:HG22	1:b:609:PRO:HD2	2.01	0.43
1:c:418:GLU:OE2	1:c:647:LYS:N	2.51	0.43
1:e:434:ARG:HD3	1:e:434:ARG:HA	1.45	0.43
1:e:484:ALA:HB2	1:e:607:ILE:HG13	2.00	0.43
1:f:279:TRP:CD1	1:f:397:LEU:HD12	2.54	0.43
1:i:436:MET:H	1:i:436:MET:HG2	1.65	0.43
1:j:354:MET:HB2	1:j:652:GLN:HE21	1.84	0.43
1:l:418:GLU:OE2	1:l:647:LYS:N	2.51	0.43
1:n:418:GLU:OE2	1:n:647:LYS:N	2.51	0.43
1:o:591:GLN:H	1:p:489:GLN:HE22	1.67	0.43
1:q:450:THR:OG1	1:r:501:ILE:N	2.44	0.43
1:s:354:MET:HB2	1:s:652:GLN:HE21	1.84	0.43
1:t:591:GLN:H	1:u:489:GLN:HE22	1.67	0.43
1:u:608:VAL:HG22	1:u:609:PRO:HD2	2.01	0.43
1:v:608:VAL:HG22	1:v:609:PRO:HD2	2.01	0.43
1:y:279:TRP:CD1	1:y:397:LEU:HD12	2.54	0.43
1:z:614:GLN:HA	1:1:632:ASP:OD1	2.18	0.43
1:1:614:GLN:HA	1:2:632:ASP:OD1	2.19	0.43
1:4:354:MET:HB2	1:4:652:GLN:HE21	1.84	0.43
1:5:354:MET:HB2	1:5:652:GLN:HE21	1.84	0.43
1:6:279:TRP:CD1	1:6:397:LEU:HD12	2.54	0.43
1:6:614:GLN:HA	1:7:632:ASP:OD1	2.19	0.43
1:8:608:VAL:HG22	1:8:609:PRO:HD2	2.01	0.43
1:A:354:MET:HB2	1:A:652:GLN:HE21	1.84	0.43
1:B:243:THR:HG21	1:B:688:GLN:HE21	1.84	0.43
1:B:445:TRP:NE1	1:J:549:ALA:HB2	2.33	0.43
1:B:614:GLN:HA	1:J:632:ASP:OD1	2.19	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:542:SER:OG	1:D:579:ASP:OD2	2.26	0.43
1:F:279:TRP:CD1	1:F:397:LEU:HD12	2.54	0.43
1:I:279:TRP:CD1	1:I:397:LEU:HD12	2.54	0.43
1:J:418:GLU:OE2	1:J:647:LYS:N	2.51	0.43
1:J:608:VAL:HG22	1:J:609:PRO:HD2	2.01	0.43
1:J:614:GLN:HA	1:L:632:ASP:OD1	2.19	0.43
1:K:549:ALA:HB2	1:8:445:TRP:NE1	2.33	0.43
1:O:418:GLU:OE2	1:O:647:LYS:N	2.51	0.43
1:P:484:ALA:HB2	1:P:607:ILE:HG13	2.00	0.43
1:S:312:ARG:NE	1:S:412:GLU:OE2	2.41	0.43
1:T:614:GLN:HA	1:d:632:ASP:OD1	2.19	0.43
1:T:636:HIS:O	1:T:638:SER:N	2.49	0.43
1:U:371:MET:SD	1:e:668:PHE:HA	2.59	0.43
1:V:608:VAL:HG22	1:V:609:PRO:HD2	2.01	0.43
1:V:614:GLN:HA	1:e:632:ASP:OD1	2.19	0.43
1:Y:243:THR:HG21	1:Y:688:GLN:HE21	1.84	0.43
1:Z:445:TRP:NE1	1:4:549:ALA:HB2	2.33	0.43
1:b:636:HIS:O	1:b:638:SER:N	2.50	0.43
1:c:484:ALA:HB2	1:c:607:ILE:HG13	2.00	0.43
1:c:614:GLN:HA	1:o:632:ASP:OD1	2.19	0.43
1:c:632:ASP:OD1	1:p:614:GLN:HA	2.19	0.43
1:d:243:THR:HG21	1:d:688:GLN:HE21	1.84	0.43
1:e:418:GLU:OE2	1:e:647:LYS:N	2.51	0.43
1:f:614:GLN:HA	1:h:632:ASP:OD1	2.19	0.43
1:j:279:TRP:CD1	1:j:397:LEU:HD12	2.54	0.43
1:j:614:GLN:HA	1:k:632:ASP:OD1	2.19	0.43
1:k:484:ALA:HB2	1:k:607:ILE:HG13	2.00	0.43
1:m:243:THR:HG21	1:m:688:GLN:HE21	1.84	0.43
1:m:614:GLN:HA	1:n:632:ASP:OD1	2.19	0.43
1:o:548:PHE:HB2	1:o:565:LEU:HB2	1.99	0.43
1:p:608:VAL:HG22	1:p:609:PRO:HD2	2.01	0.43
1:u:279:TRP:CD1	1:u:397:LEU:HD12	2.54	0.43
1:u:614:GLN:HA	1:v:632:ASP:OD1	2.19	0.43
1:v:434:ARG:HD3	1:v:434:ARG:HA	1.45	0.43
1:w:279:TRP:CD1	1:w:397:LEU:HD12	2.54	0.43
1:1:279:TRP:CD1	1:1:397:LEU:HD12	2.54	0.43
1:2:608:VAL:HG22	1:2:609:PRO:HD2	2.01	0.43
1:5:501:ILE:N	1:7:450:THR:OG1	2.44	0.43
1:5:608:VAL:HG22	1:5:609:PRO:HD2	2.01	0.43
1:6:312:ARG:NE	1:6:412:GLU:OE2	2.41	0.43
1:6:354:MET:HB2	1:6:652:GLN:HE21	1.84	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:7:243:THR:HG21	1:7:688:GLN:HE21	1.84	0.43
1:7:354:MET:HB2	1:7:652:GLN:HE21	1.84	0.43
1:C:614:GLN:HA	1:b:632:ASP:OD1	2.19	0.43
1:E:279:TRP:CD1	1:E:397:LEU:HD12	2.54	0.43
1:E:614:GLN:HA	1:Q:632:ASP:OD1	2.19	0.43
1:G:354:MET:HB2	1:G:652:GLN:HE21	1.84	0.43
1:H:608:VAL:HG22	1:H:609:PRO:HD2	2.01	0.43
1:J:591:GLN:H	1:L:489:GLN:HE22	1.66	0.43
1:M:632:ASP:OD1	1:b:614:GLN:HA	2.19	0.43
1:O:243:THR:HG21	1:O:688:GLN:HE21	1.84	0.43
1:O:632:ASP:OD1	1:n:614:GLN:HA	2.19	0.43
1:Q:279:TRP:CD1	1:Q:397:LEU:HD12	2.54	0.43
1:R:450:THR:OG1	1:S:501:ILE:N	2.44	0.43
1:S:371:MET:SD	1:d:668:PHE:HA	2.59	0.43
1:W:354:MET:HB2	1:W:652:GLN:HE21	1.84	0.43
1:X:632:ASP:OD1	1:e:614:GLN:HA	2.19	0.43
1:Z:279:TRP:CD1	1:Z:397:LEU:HD12	2.54	0.43
1:c:668:PHE:HA	1:s:371:MET:SD	2.59	0.43
1:d:614:GLN:HA	1:l:632:ASP:OD1	2.19	0.43
1:f:632:ASP:OD1	1:g:614:GLN:HA	2.19	0.43
1:f:668:PHE:HA	1:z:371:MET:SD	2.59	0.43
1:j:484:ALA:HB2	1:j:607:ILE:HG13	2.00	0.43
1:k:542:SER:OG	1:k:579:ASP:OD2	2.26	0.43
1:l:243:THR:HG21	1:l:688:GLN:HE21	1.84	0.43
1:n:243:THR:HG21	1:n:688:GLN:HE21	1.84	0.43
1:n:668:PHE:HA	1:r:371:MET:SD	2.59	0.43
1:t:354:MET:HB2	1:t:652:GLN:HE21	1.84	0.43
1:t:484:ALA:HB2	1:t:607:ILE:HG13	2.00	0.43
1:w:614:GLN:HA	1:x:632:ASP:OD1	2.19	0.43
1:y:636:HIS:O	1:y:638:SER:N	2.50	0.43
1:z:608:VAL:HG22	1:z:609:PRO:HD2	2.01	0.43
1:1:243:THR:HG21	1:1:688:GLN:HE21	1.84	0.43
1:2:418:GLU:OE2	1:2:647:LYS:N	2.51	0.43
1:5:484:ALA:HB2	1:5:607:ILE:HG13	2.00	0.43
1:A:279:TRP:CD1	1:A:397:LEU:HD12	2.54	0.42
1:C:418:GLU:OE2	1:C:647:LYS:N	2.51	0.42
1:D:279:TRP:CD1	1:D:397:LEU:HD12	2.54	0.42
1:D:614:GLN:HA	1:N:632:ASP:OD1	2.19	0.42
1:F:371:MET:SD	1:G:668:PHE:HA	2.59	0.42
1:H:484:ALA:HB2	1:H:607:ILE:HG13	2.00	0.42
1:L:371:MET:SD	1:b:668:PHE:HA	2.59	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:608:VAL:HG22	1:L:609:PRO:HD2	2.01	0.42
1:M:434:ARG:HD3	1:M:434:ARG:HA	1.45	0.42
1:M:668:PHE:HA	1:c:371:MET:SD	2.59	0.42
1:N:243:THR:HG21	1:N:688:GLN:HE21	1.84	0.42
1:O:321:LYS:NZ	1:O:334:ASN:OD1	2.32	0.42
1:P:279:TRP:CD1	1:P:397:LEU:HD12	2.54	0.42
1:Q:243:THR:HG21	1:Q:688:GLN:HE21	1.84	0.42
1:T:608:VAL:HG22	1:T:609:PRO:HD2	2.01	0.42
1:U:279:TRP:CD1	1:U:397:LEU:HD12	2.54	0.42
1:U:312:ARG:NE	1:U:412:GLU:OE2	2.41	0.42
1:U:608:VAL:HG22	1:U:609:PRO:HD2	2.01	0.42
1:V:243:THR:HG21	1:V:688:GLN:HE21	1.84	0.42
1:X:354:MET:HB2	1:X:652:GLN:HE21	1.84	0.42
1:Z:668:PHE:HA	1:a:371:MET:SD	2.59	0.42
1:d:636:HIS:O	1:d:638:SER:N	2.50	0.42
1:e:371:MET:SD	1:h:668:PHE:HA	2.59	0.42
1:f:354:MET:HB2	1:f:652:GLN:HE21	1.84	0.42
1:f:549:ALA:HB2	1:g:445:TRP:NE1	2.33	0.42
1:f:636:HIS:O	1:f:638:SER:N	2.50	0.42
1:g:608:VAL:HG22	1:g:609:PRO:HD2	2.01	0.42
1:i:243:THR:HG21	1:i:688:GLN:HE21	1.84	0.42
1:k:279:TRP:CD1	1:k:397:LEU:HD12	2.54	0.42
1:m:608:VAL:HG22	1:m:609:PRO:HD2	2.01	0.42
1:o:279:TRP:CD1	1:o:397:LEU:HD12	2.54	0.42
1:o:725:GLY:HA2	1:7:260:TYR:O	2.19	0.42
1:p:243:THR:HG21	1:p:688:GLN:HE21	1.84	0.42
1:q:371:MET:SD	1:y:668:PHE:HA	2.59	0.42
1:s:608:VAL:HG22	1:s:609:PRO:HD2	2.01	0.42
1:t:450:THR:OG1	1:u:501:ILE:N	2.43	0.42
1:u:354:MET:HB2	1:u:652:GLN:HE21	1.84	0.42
1:u:472:ASP:HA	1:v:270:ASN:ND2	2.34	0.42
1:v:279:TRP:CD1	1:v:397:LEU:HD12	2.54	0.42
1:v:354:MET:HB2	1:v:652:GLN:HE21	1.84	0.42
1:w:436:MET:H	1:w:436:MET:HG2	1.65	0.42
1:x:243:THR:HG21	1:x:688:GLN:HE21	1.84	0.42
1:x:279:TRP:CD1	1:x:397:LEU:HD12	2.54	0.42
1:z:365:PHE:HA	1:z:366:PRO:HD3	1.94	0.42
1:z:591:GLN:H	1:1:489:GLN:HE22	1.66	0.42
1:1:354:MET:HB2	1:1:652:GLN:HE21	1.84	0.42
1:2:354:MET:HB2	1:2:652:GLN:HE21	1.84	0.42
1:3:371:MET:SD	1:8:668:PHE:HA	2.59	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:4:279:TRP:CD1	1:4:397:LEU:HD12	2.54	0.42
1:7:636:HIS:O	1:7:638:SER:N	2.50	0.42
1:8:279:TRP:CD1	1:8:397:LEU:HD12	2.54	0.42
1:A:489:GLN:HE22	1:I:591:GLN:H	1.67	0.42
1:A:591:GLN:H	1:G:489:GLN:HE22	1.66	0.42
1:B:354:MET:HB2	1:B:652:GLN:HE21	1.84	0.42
1:C:445:TRP:NE1	1:b:549:ALA:HB2	2.33	0.42
1:C:608:VAL:HG22	1:C:609:PRO:HD2	2.01	0.42
1:E:445:TRP:NE1	1:Q:549:ALA:HB2	2.33	0.42
1:E:472:ASP:HB3	1:E:475:TYR:HD2	1.85	0.42
1:F:668:PHE:HA	1:R:371:MET:SD	2.59	0.42
1:G:371:MET:SD	1:W:668:PHE:HA	2.59	0.42
1:G:484:ALA:HB2	1:G:607:ILE:HG13	2.00	0.42
1:G:614:GLN:HA	1:I:632:ASP:OD1	2.19	0.42
1:H:718:LEU:HG	1:H:730:LEU:HD12	2.02	0.42
1:I:354:MET:HB2	1:I:652:GLN:HE21	1.84	0.42
1:J:354:MET:HB2	1:J:652:GLN:HE21	1.84	0.42
1:K:279:TRP:CD1	1:K:397:LEU:HD12	2.54	0.42
1:K:718:LEU:HG	1:K:730:LEU:HD12	2.02	0.42
1:L:484:ALA:HB2	1:L:607:ILE:HG13	2.00	0.42
1:M:472:ASP:HB3	1:M:475:TYR:HD2	1.85	0.42
1:P:243:THR:HG21	1:P:688:GLN:HE21	1.84	0.42
1:R:472:ASP:HA	1:S:270:ASN:ND2	2.35	0.42
1:S:725:GLY:HA2	1:d:260:TYR:O	2.20	0.42
1:T:354:MET:HB2	1:T:652:GLN:HE21	1.84	0.42
1:T:371:MET:SD	1:U:668:PHE:HA	2.59	0.42
1:V:632:ASP:OD1	1:X:614:GLN:HA	2.19	0.42
1:W:608:VAL:HG22	1:W:609:PRO:HD2	2.01	0.42
1:W:718:LEU:HG	1:W:730:LEU:HD12	2.01	0.42
1:X:243:THR:HG21	1:X:688:GLN:HE21	1.84	0.42
1:X:279:TRP:CD1	1:X:397:LEU:HD12	2.54	0.42
1:X:725:GLY:HA2	1:Y:260:TYR:O	2.19	0.42
1:Y:279:TRP:CD1	1:Y:397:LEU:HD12	2.54	0.42
1:b:354:MET:HB2	1:b:652:GLN:HE21	1.84	0.42
1:b:472:ASP:HB3	1:b:475:TYR:HD2	1.85	0.42
1:d:354:MET:HB2	1:d:652:GLN:HE21	1.84	0.42
1:f:472:ASP:HB3	1:f:475:TYR:HD2	1.85	0.42
1:i:489:GLN:HE22	1:k:591:GLN:H	1.66	0.42
1:i:614:GLN:HA	1:j:632:ASP:OD1	2.19	0.42
1:i:632:ASP:OD1	1:k:614:GLN:HA	2.19	0.42
1:j:260:TYR:O	1:l:725:GLY:HA2	2.19	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:m:354:MET:HB2	1:m:652:GLN:HE21	1.84	0.42
1:m:371:MET:SD	1:s:668:PHE:HA	2.59	0.42
1:n:260:TYR:O	1:r:725:GLY:HA2	2.20	0.42
1:n:354:MET:HB2	1:n:652:GLN:HE21	1.84	0.42
1:o:243:THR:HG21	1:o:688:GLN:HE21	1.84	0.42
1:o:354:MET:HB2	1:o:652:GLN:HE21	1.84	0.42
1:q:243:THR:HG21	1:q:688:GLN:HE21	1.84	0.42
1:q:472:ASP:HA	1:r:270:ASN:ND2	2.35	0.42
1:s:279:TRP:CD1	1:s:397:LEU:HD12	2.54	0.42
1:t:371:MET:SD	1:6:668:PHE:HA	2.59	0.42
1:w:445:TRP:NE1	1:x:549:ALA:HB2	2.33	0.42
1:w:472:ASP:HB3	1:w:475:TYR:HD2	1.85	0.42
1:z:484:ALA:HB2	1:z:607:ILE:HG13	2.00	0.42
1:z:632:ASP:OD1	1:2:614:GLN:HA	2.19	0.42
1:3:472:ASP:HB3	1:3:475:TYR:HD2	1.85	0.42
1:4:718:LEU:HG	1:4:730:LEU:HD12	2.02	0.42
1:5:718:LEU:HG	1:5:730:LEU:HD12	2.01	0.42
1:7:279:TRP:CD1	1:7:397:LEU:HD12	2.54	0.42
1:B:472:ASP:HB3	1:B:475:TYR:HD2	1.85	0.42
1:B:668:PHE:HA	1:C:371:MET:SD	2.59	0.42
1:C:270:ASN:ND2	1:M:472:ASP:HA	2.34	0.42
1:D:668:PHE:HA	1:E:371:MET:SD	2.59	0.42
1:E:484:ALA:HB2	1:E:607:ILE:HG13	2.00	0.42
1:F:718:LEU:HG	1:F:730:LEU:HD12	2.02	0.42
1:H:279:TRP:CD1	1:H:397:LEU:HD12	2.54	0.42
1:H:668:PHE:HA	1:Z:371:MET:SD	2.59	0.42
1:I:725:GLY:HA2	1:J:260:TYR:O	2.20	0.42
1:M:371:MET:SD	1:N:668:PHE:HA	2.60	0.42
1:N:718:LEU:HG	1:N:730:LEU:HD12	2.01	0.42
1:O:354:MET:HB2	1:O:652:GLN:HE21	1.84	0.42
1:O:725:GLY:HA2	1:P:260:TYR:O	2.19	0.42
1:R:243:THR:HG21	1:R:688:GLN:HE21	1.84	0.42
1:R:614:GLN:HA	1:S:632:ASP:OD1	2.19	0.42
1:U:243:THR:HG21	1:U:688:GLN:HE21	1.84	0.42
1:U:725:GLY:HA2	1:e:260:TYR:O	2.20	0.42
1:X:668:PHE:HA	1:f:371:MET:SD	2.59	0.42
1:Z:270:ASN:ND2	1:3:472:ASP:HA	2.35	0.42
1:a:243:THR:HG21	1:a:688:GLN:HE21	1.84	0.42
1:a:472:ASP:HB3	1:a:475:TYR:HD2	1.85	0.42
1:c:260:TYR:O	1:s:725:GLY:HA2	2.20	0.42
1:d:718:LEU:HG	1:d:730:LEU:HD12	2.02	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:g:270:ASN:ND2	1:h:472:ASP:HA	2.34	0.42
1:g:279:TRP:CD1	1:g:397:LEU:HD12	2.54	0.42
1:g:371:MET:SD	1:l:668:PHE:HA	2.60	0.42
1:g:418:GLU:OE2	1:g:647:LYS:N	2.51	0.42
1:h:472:ASP:HB3	1:h:475:TYR:HD2	1.85	0.42
1:j:243:THR:HG21	1:j:688:GLN:HE21	1.84	0.42
1:k:668:PHE:HA	1:w:371:MET:SD	2.59	0.42
1:m:279:TRP:CD1	1:m:397:LEU:HD12	2.54	0.42
1:n:718:LEU:HG	1:n:730:LEU:HD12	2.02	0.42
1:p:542:SER:OG	1:p:579:ASP:OD2	2.26	0.42
1:q:725:GLY:HA2	1:y:260:TYR:O	2.20	0.42
1:s:243:THR:HG21	1:s:688:GLN:HE21	1.84	0.42
1:t:434:ARG:HA	1:t:434:ARG:HD3	1.45	0.42
1:t:614:GLN:HA	1:u:632:ASP:OD1	2.19	0.42
1:t:668:PHE:HA	1:y:371:MET:SD	2.59	0.42
1:u:725:GLY:HA2	1:2:260:TYR:O	2.20	0.42
1:v:243:THR:HG21	1:v:688:GLN:HE21	1.84	0.42
1:w:484:ALA:HB2	1:w:607:ILE:HG13	2.00	0.42
1:x:542:SER:OG	1:x:579:ASP:OD2	2.26	0.42
1:y:718:LEU:HG	1:y:730:LEU:HD12	2.02	0.42
1:z:354:MET:HB2	1:z:652:GLN:HE21	1.84	0.42
1:5:279:TRP:CD1	1:5:397:LEU:HD12	2.54	0.42
1:5:668:PHE:HA	1:8:371:MET:SD	2.59	0.42
1:6:608:VAL:HG22	1:6:609:PRO:HD2	2.01	0.42
1:6:718:LEU:HG	1:6:730:LEU:HD12	2.01	0.42
1:A:243:THR:HG21	1:A:688:GLN:HE21	1.84	0.42
1:A:484:ALA:HB2	1:A:607:ILE:HG13	2.00	0.42
1:A:632:ASP:OD1	1:I:614:GLN:HA	2.20	0.42
1:B:632:ASP:OD1	1:L:614:GLN:HA	2.19	0.42
1:C:279:TRP:CD1	1:C:397:LEU:HD12	2.54	0.42
1:D:591:GLN:H	1:N:489:GLN:HE22	1.66	0.42
1:E:243:THR:HG21	1:E:688:GLN:HE21	1.84	0.42
1:F:260:TYR:O	1:R:725:GLY:HA2	2.20	0.42
1:H:436:MET:H	1:H:436:MET:HG2	1.65	0.42
1:I:718:LEU:HG	1:I:730:LEU:HD12	2.02	0.42
1:L:354:MET:HB2	1:L:652:GLN:HE21	1.84	0.42
1:L:365:PHE:HA	1:L:366:PRO:HD3	1.94	0.42
1:N:472:ASP:HB3	1:N:475:TYR:HD2	1.85	0.42
1:N:614:GLN:HA	1:P:632:ASP:OD1	2.19	0.42
1:Q:542:SER:OG	1:Q:579:ASP:OD2	2.26	0.42
1:R:632:ASP:OD1	1:U:614:GLN:HA	2.19	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:R:636:HIS:O	1:R:638:SER:N	2.50	0.42
1:S:279:TRP:CD1	1:S:397:LEU:HD12	2.54	0.42
1:S:450:THR:OG1	1:U:501:ILE:N	2.43	0.42
1:U:436:MET:H	1:U:436:MET:HG2	1.65	0.42
1:V:279:TRP:CD1	1:V:397:LEU:HD12	2.54	0.42
1:V:472:ASP:HA	1:e:270:ASN:ND2	2.34	0.42
1:a:472:ASP:HA	1:8:270:ASN:ND2	2.35	0.42
1:c:270:ASN:ND2	1:p:472:ASP:HA	2.34	0.42
1:c:279:TRP:CD1	1:c:397:LEU:HD12	2.54	0.42
1:d:434:ARG:HD3	1:d:434:ARG:HA	1.45	0.42
1:d:542:SER:OG	1:d:579:ASP:OD2	2.26	0.42
1:e:472:ASP:HB3	1:e:475:TYR:HD2	1.85	0.42
1:h:371:MET:SD	1:i:668:PHE:HA	2.60	0.42
1:i:472:ASP:HB3	1:i:475:TYR:HD2	1.85	0.42
1:i:718:LEU:HG	1:i:730:LEU:HD12	2.02	0.42
1:n:636:HIS:O	1:n:638:SER:N	2.50	0.42
1:o:614:GLN:HA	1:p:632:ASP:OD1	2.19	0.42
1:p:279:TRP:CD1	1:p:397:LEU:HD12	2.54	0.42
1:q:279:TRP:CD1	1:q:397:LEU:HD12	2.54	0.42
1:q:614:GLN:HA	1:r:632:ASP:OD1	2.19	0.42
1:r:312:ARG:NE	1:r:412:GLU:OE2	2.41	0.42
1:s:312:ARG:NE	1:s:412:GLU:OE2	2.41	0.42
1:s:436:MET:H	1:s:436:MET:HG2	1.65	0.42
1:t:489:GLN:HE22	1:v:591:GLN:H	1.66	0.42
1:u:718:LEU:HG	1:u:730:LEU:HD12	2.02	0.42
1:v:484:ALA:HB2	1:v:607:ILE:HG13	2.00	0.42
1:3:243:THR:HG21	1:3:688:GLN:HE21	1.84	0.42
1:3:270:ASN:ND2	1:4:472:ASP:HA	2.34	0.42
1:4:542:SER:OG	1:4:579:ASP:OD2	2.26	0.42
1:5:436:MET:H	1:5:436:MET:HG2	1.65	0.42
1:A:472:ASP:HB3	1:A:475:TYR:HD2	1.85	0.42
1:B:718:LEU:HG	1:B:730:LEU:HD12	2.02	0.42
1:D:472:ASP:HA	1:N:270:ASN:ND2	2.35	0.42
1:E:472:ASP:HA	1:Q:270:ASN:ND2	2.34	0.42
1:E:632:ASP:OD1	1:F:614:GLN:HA	2.19	0.42
1:G:243:THR:HG21	1:G:688:GLN:HE21	1.84	0.42
1:H:472:ASP:HB3	1:H:475:TYR:HD2	1.85	0.42
1:J:371:MET:SD	1:a:668:PHE:HA	2.59	0.42
1:J:484:ALA:HB2	1:J:607:ILE:HG13	2.00	0.42
1:K:472:ASP:HA	1:a:270:ASN:ND2	2.34	0.42
1:M:484:ALA:HB2	1:M:607:ILE:HG13	2.00	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:354:MET:HB2	1:N:652:GLN:HE21	1.84	0.42
1:O:614:GLN:HA	1:m:632:ASP:OD1	2.19	0.42
1:Q:312:ARG:NE	1:Q:412:GLU:OE2	2.41	0.42
1:Q:371:MET:SD	1:S:668:PHE:HA	2.59	0.42
1:R:260:TYR:O	1:V:725:GLY:HA2	2.20	0.42
1:R:354:MET:HB2	1:R:652:GLN:HE21	1.84	0.42
1:R:489:GLN:HE22	1:U:591:GLN:H	1.66	0.42
1:T:279:TRP:CD1	1:T:397:LEU:HD12	2.54	0.42
1:T:632:ASP:OD1	1:l:614:GLN:HA	2.19	0.42
1:V:542:SER:OG	1:V:579:ASP:OD2	2.26	0.42
1:W:484:ALA:HB2	1:W:607:ILE:HG13	2.00	0.42
1:Y:472:ASP:HB3	1:Y:475:TYR:HD2	1.85	0.42
1:b:371:MET:SD	1:o:668:PHE:HA	2.59	0.42
1:b:725:GLY:HA2	1:o:260:TYR:O	2.20	0.42
1:c:472:ASP:HB3	1:c:475:TYR:HD2	1.85	0.42
1:d:450:THR:OG1	1:l:501:ILE:N	2.44	0.42
1:g:243:THR:HG21	1:g:688:GLN:HE21	1.84	0.42
1:h:484:ALA:HB2	1:h:607:ILE:HG13	2.00	0.42
1:h:636:HIS:O	1:h:638:SER:N	2.49	0.42
1:l:321:LYS:NZ	1:l:334:ASN:OD1	2.32	0.42
1:l:354:MET:HB2	1:l:652:GLN:HE21	1.84	0.42
1:p:725:GLY:HA2	1:q:260:TYR:O	2.20	0.42
1:q:632:ASP:OD1	1:s:614:GLN:HA	2.19	0.42
1:q:636:HIS:O	1:q:638:SER:N	2.50	0.42
1:r:279:TRP:CD1	1:r:397:LEU:HD12	2.54	0.42
1:r:354:MET:HB2	1:r:652:GLN:HE21	1.84	0.42
1:s:718:LEU:HG	1:s:730:LEU:HD12	2.02	0.42
1:v:472:ASP:HB3	1:v:475:TYR:HD2	1.85	0.42
1:w:243:THR:HG21	1:w:688:GLN:HE21	1.84	0.42
1:w:632:ASP:OD1	1:y:614:GLN:HA	2.19	0.42
1:z:260:TYR:O	1:4:725:GLY:HA2	2.19	0.42
1:z:279:TRP:CD1	1:z:397:LEU:HD12	2.54	0.42
1:z:489:GLN:HE22	1:2:591:GLN:H	1.67	0.42
1:1:718:LEU:HG	1:1:730:LEU:HD12	2.02	0.42
1:2:484:ALA:HB2	1:2:607:ILE:HG13	2.00	0.42
1:7:472:ASP:HB3	1:7:475:TYR:HD2	1.85	0.42
1:A:614:GLN:HA	1:G:632:ASP:OD1	2.19	0.42
1:C:632:ASP:OD1	1:M:614:GLN:HA	2.19	0.42
1:E:270:ASN:ND2	1:F:472:ASP:HA	2.35	0.42
1:I:243:THR:HG21	1:I:688:GLN:HE21	1.84	0.42
1:J:335:ASN:HD22	1:J:679:GLN:NE2	2.18	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:371:MET:SD	1:L:668:PHE:HA	2.59	0.42
1:L:243:THR:HG21	1:L:688:GLN:HE21	1.84	0.42
1:L:279:TRP:CD1	1:L:397:LEU:HD12	2.54	0.42
1:L:725:GLY:HA2	1:b:260:TYR:O	2.20	0.42
1:M:608:VAL:HG22	1:M:609:PRO:HD2	2.01	0.42
1:O:472:ASP:HB3	1:O:475:TYR:HD2	1.84	0.42
1:O:501:ILE:N	1:n:450:THR:OG1	2.44	0.42
1:P:718:LEU:HG	1:P:730:LEU:HD12	2.01	0.42
1:R:279:TRP:CD1	1:R:397:LEU:HD12	2.54	0.42
1:S:354:MET:HB2	1:S:652:GLN:HE21	1.84	0.42
1:T:335:ASN:HD22	1:T:679:GLN:NE2	2.18	0.42
1:U:718:LEU:HG	1:U:730:LEU:HD12	2.02	0.42
1:X:260:TYR:O	1:f:725:GLY:HA2	2.20	0.42
1:Y:335:ASN:HD22	1:Y:679:GLN:NE2	2.18	0.42
1:Z:718:LEU:HG	1:Z:730:LEU:HD12	2.01	0.42
1:a:335:ASN:HD22	1:a:679:GLN:NE2	2.18	0.42
1:c:434:ARG:HD3	1:c:434:ARG:HA	1.45	0.42
1:e:279:TRP:CD1	1:e:397:LEU:HD12	2.54	0.42
1:f:260:TYR:O	1:z:725:GLY:HA2	2.20	0.42
1:g:632:ASP:OD1	1:h:614:GLN:HA	2.19	0.42
1:i:270:ASN:ND2	1:k:472:ASP:HA	2.35	0.42
1:i:591:GLN:H	1:j:489:GLN:HE22	1.66	0.42
1:k:472:ASP:HB3	1:k:475:TYR:HD2	1.85	0.42
1:m:335:ASN:HD22	1:m:679:GLN:NE2	2.18	0.42
1:q:354:MET:HB2	1:q:652:GLN:HE21	1.84	0.42
1:q:489:GLN:HE22	1:s:591:GLN:H	1.66	0.42
1:r:450:THR:OG1	1:s:501:ILE:N	2.43	0.42
1:r:718:LEU:HG	1:r:730:LEU:HD12	2.02	0.42
1:t:243:THR:HG21	1:t:688:GLN:HE21	1.84	0.42
1:w:608:VAL:HG22	1:w:609:PRO:HD2	2.01	0.42
1:z:243:THR:HG21	1:z:688:GLN:HE21	1.84	0.42
1:z:450:THR:OG1	1:1:501:ILE:N	2.44	0.42
1:1:434:ARG:HD3	1:1:434:ARG:HA	1.45	0.42
1:1:472:ASP:HB3	1:1:475:TYR:HD2	1.85	0.42
1:2:371:MET:SD	1:3:668:PHE:HA	2.59	0.42
1:3:335:ASN:HD22	1:3:679:GLN:NE2	2.18	0.42
1:4:243:THR:HG21	1:4:688:GLN:HE21	1.84	0.42
1:5:243:THR:HG21	1:5:688:GLN:HE21	1.84	0.42
1:5:472:ASP:HB3	1:5:475:TYR:HD2	1.85	0.42
1:5:542:SER:OG	1:5:579:ASP:OD2	2.26	0.42
1:6:484:ALA:HB2	1:6:607:ILE:HG13	2.00	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:8:718:LEU:HG	1:8:730:LEU:HD12	2.01	0.42
1:B:270:ASN:ND2	1:L:472:ASP:HA	2.35	0.42
1:B:434:ARG:HD3	1:B:434:ARG:HA	1.45	0.42
1:B:501:ILE:N	1:L:450:THR:OG1	2.43	0.42
1:C:243:THR:HG21	1:C:688:GLN:HE21	1.84	0.42
1:D:472:ASP:HB3	1:D:475:TYR:HD2	1.85	0.42
1:E:608:VAL:HG22	1:E:609:PRO:HD2	2.01	0.42
1:K:243:THR:HG21	1:K:688:GLN:HE21	1.84	0.42
1:K:335:ASN:HD22	1:K:679:GLN:NE2	2.18	0.42
1:M:636:HIS:O	1:M:638:SER:N	2.49	0.42
1:O:260:TYR:O	1:d:725:GLY:HA2	2.20	0.42
1:O:270:ASN:ND2	1:n:472:ASP:HA	2.35	0.42
1:O:279:TRP:CD1	1:O:397:LEU:HD12	2.54	0.42
1:O:335:ASN:HD22	1:O:679:GLN:NE2	2.18	0.42
1:O:542:SER:OG	1:O:579:ASP:OD2	2.26	0.42
1:S:718:LEU:HG	1:S:730:LEU:HD12	2.02	0.42
1:W:472:ASP:HB3	1:W:475:TYR:HD2	1.85	0.42
1:b:436:MET:H	1:b:436:MET:HG2	1.65	0.42
1:h:608:VAL:HG22	1:h:609:PRO:HD2	2.01	0.42
1:i:354:MET:HB2	1:i:652:GLN:HE21	1.84	0.42
1:i:365:PHE:HA	1:i:366:PRO:HD3	1.94	0.42
1:l:260:TYR:O	1:n:725:GLY:HA2	2.20	0.42
1:l:279:TRP:CD1	1:l:397:LEU:HD12	2.54	0.42
1:l:668:PHE:HA	1:n:371:MET:SD	2.59	0.42
1:r:243:THR:HG21	1:r:688:GLN:HE21	1.84	0.42
1:r:591:GLN:H	1:s:489:GLN:HE22	1.66	0.42
1:r:668:PHE:HA	1:x:371:MET:SD	2.59	0.42
1:u:243:THR:HG21	1:u:688:GLN:HE21	1.84	0.42
1:w:270:ASN:ND2	1:y:472:ASP:HA	2.35	0.42
1:w:472:ASP:HA	1:x:270:ASN:ND2	2.34	0.42
1:x:472:ASP:HA	1:y:270:ASN:ND2	2.34	0.42
1:2:335:ASN:HD22	1:2:679:GLN:NE2	2.18	0.42
1:4:335:ASN:HD22	1:4:679:GLN:NE2	2.18	0.42
1:6:472:ASP:HB3	1:6:475:TYR:HD2	1.85	0.42
1:7:335:ASN:HD22	1:7:679:GLN:NE2	2.18	0.42
1:8:354:MET:HB2	1:8:652:GLN:HE21	1.84	0.42
1:B:335:ASN:HD22	1:B:679:GLN:NE2	2.18	0.42
1:B:489:GLN:HE22	1:L:591:GLN:H	1.66	0.42
1:C:718:LEU:HG	1:C:730:LEU:HD12	2.01	0.42
1:D:260:TYR:O	1:E:725:GLY:HA2	2.19	0.42
1:G:262:ARG:HB3	1:G:275:PHE:CE1	2.55	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:335:ASN:HD22	1:G:679:GLN:NE2	2.18	0.42
1:H:243:THR:HG21	1:H:688:GLN:HE21	1.84	0.42
1:J:279:TRP:CD1	1:J:397:LEU:HD12	2.54	0.42
1:K:270:ASN:ND2	1:8:472:ASP:HA	2.34	0.42
1:K:489:GLN:HE22	1:8:591:GLN:H	1.67	0.42
1:K:632:ASP:OD1	1:8:614:GLN:HA	2.19	0.42
1:M:260:TYR:O	1:c:725:GLY:HA2	2.20	0.42
1:M:270:ASN:ND2	1:b:472:ASP:HA	2.35	0.42
1:M:725:GLY:HA2	1:N:260:TYR:O	2.19	0.42
1:N:591:GLN:H	1:P:489:GLN:HE22	1.66	0.42
1:O:668:PHE:HA	1:d:371:MET:SD	2.59	0.42
1:T:484:ALA:HB2	1:T:607:ILE:HG13	2.00	0.42
1:T:725:GLY:HA2	1:U:260:TYR:O	2.20	0.42
1:Y:262:ARG:HB3	1:Y:275:PHE:CE1	2.55	0.42
1:Z:260:TYR:O	1:a:725:GLY:HA2	2.20	0.42
1:Z:614:GLN:HA	1:4:632:ASP:OD1	2.19	0.42
1:d:436:MET:H	1:d:436:MET:HG2	1.65	0.42
1:d:472:ASP:HA	1:l:270:ASN:ND2	2.35	0.42
1:d:591:GLN:H	1:l:489:GLN:HE22	1.66	0.42
1:f:270:ASN:ND2	1:g:472:ASP:HA	2.34	0.42
1:g:489:GLN:HE22	1:h:591:GLN:H	1.67	0.42
1:h:725:GLY:HA2	1:i:260:TYR:O	2.19	0.42
1:j:718:LEU:HG	1:j:730:LEU:HD12	2.02	0.42
1:l:335:ASN:HD22	1:l:679:GLN:NE2	2.18	0.42
1:l:472:ASP:HB3	1:l:475:TYR:HD2	1.85	0.42
1:m:484:ALA:HB2	1:m:607:ILE:HG13	2.00	0.42
1:m:591:GLN:H	1:n:489:GLN:HE22	1.66	0.42
1:n:279:TRP:CD1	1:n:397:LEU:HD12	2.54	0.42
1:n:542:SER:OG	1:n:579:ASP:OD2	2.26	0.42
1:o:472:ASP:HB3	1:o:475:TYR:HD2	1.85	0.42
1:s:472:ASP:HB3	1:s:475:TYR:HD2	1.85	0.42
1:t:279:TRP:CD1	1:t:397:LEU:HD12	2.54	0.42
1:t:632:ASP:OD1	1:v:614:GLN:HA	2.19	0.42
1:1:335:ASN:HD22	1:1:679:GLN:NE2	2.18	0.42
1:3:632:ASP:OD1	1:4:614:GLN:HA	2.19	0.42
1:4:472:ASP:HB3	1:4:475:TYR:HD2	1.85	0.42
1:7:262:ARG:HB3	1:7:275:PHE:CE1	2.55	0.42
1:7:608:VAL:HG22	1:7:609:PRO:HD2	2.01	0.42
1:A:436:MET:H	1:A:436:MET:HG2	1.65	0.42
1:C:472:ASP:HA	1:b:270:ASN:ND2	2.34	0.42
1:C:636:HIS:O	1:C:638:SER:N	2.49	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:262:ARG:HB3	1:D:275:PHE:CE1	2.55	0.42
1:F:270:ASN:ND2	1:Q:472:ASP:HA	2.34	0.42
1:G:279:TRP:CD1	1:G:397:LEU:HD12	2.54	0.42
1:H:472:ASP:HA	1:W:270:ASN:ND2	2.35	0.42
1:H:632:ASP:OD1	1:Y:614:GLN:HA	2.19	0.42
1:J:636:HIS:O	1:J:638:SER:N	2.50	0.42
1:K:725:GLY:HA2	1:L:260:TYR:O	2.20	0.42
1:N:472:ASP:HA	1:P:270:ASN:ND2	2.35	0.42
1:Q:472:ASP:HB3	1:Q:475:TYR:HD2	1.85	0.42
1:S:243:THR:HG21	1:S:688:GLN:HE21	1.84	0.42
1:S:591:GLN:H	1:U:489:GLN:HE22	1.66	0.42
1:T:365:PHE:HA	1:T:366:PRO:HD3	1.94	0.42
1:T:591:GLN:H	1:d:489:GLN:HE22	1.66	0.42
1:U:335:ASN:HD22	1:U:679:GLN:NE2	2.18	0.42
1:U:472:ASP:HB3	1:U:475:TYR:HD2	1.85	0.42
1:W:243:THR:HG21	1:W:688:GLN:HE21	1.84	0.42
1:Y:608:VAL:HG22	1:Y:609:PRO:HD2	2.01	0.42
1:Z:354:MET:HB2	1:Z:652:GLN:HE21	1.84	0.42
1:Z:591:GLN:H	1:4:489:GLN:HE22	1.67	0.42
1:d:279:TRP:CD1	1:d:397:LEU:HD12	2.54	0.42
1:d:312:ARG:NE	1:d:412:GLU:OE2	2.41	0.42
1:e:725:GLY:HA2	1:h:260:TYR:O	2.20	0.42
1:f:472:ASP:HA	1:h:270:ASN:ND2	2.35	0.42
1:g:718:LEU:HG	1:g:730:LEU:HD12	2.02	0.42
1:i:335:ASN:HD22	1:i:679:GLN:NE2	2.18	0.42
1:i:472:ASP:HA	1:j:270:ASN:ND2	2.35	0.42
1:m:472:ASP:HB3	1:m:475:TYR:HD2	1.85	0.42
1:m:725:GLY:HA2	1:s:260:TYR:O	2.20	0.42
1:t:335:ASN:HD22	1:t:679:GLN:NE2	2.18	0.42
1:x:312:ARG:NE	1:x:412:GLU:OE2	2.41	0.42
1:y:484:ALA:HB2	1:y:607:ILE:HG13	2.00	0.42
1:3:725:GLY:HA2	1:8:260:TYR:O	2.20	0.42
1:5:472:ASP:HA	1:6:270:ASN:ND2	2.35	0.42
1:5:614:GLN:HA	1:6:632:ASP:OD1	2.19	0.42
1:6:243:THR:HG21	1:6:688:GLN:HE21	1.84	0.42
1:C:335:ASN:HD22	1:C:679:GLN:NE2	2.18	0.42
1:C:354:MET:HB2	1:C:652:GLN:HE21	1.84	0.42
1:C:489:GLN:HE22	1:M:591:GLN:H	1.67	0.42
1:D:718:LEU:HG	1:D:730:LEU:HD12	2.01	0.42
1:E:636:HIS:O	1:E:638:SER:N	2.49	0.42
1:F:262:ARG:HB3	1:F:275:PHE:CE1	2.55	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:365:PHE:HA	1:F:366:PRO:HD3	1.94	0.42
1:F:484:ALA:HB2	1:F:607:ILE:HG13	2.00	0.42
1:G:434:ARG:HA	1:G:434:ARG:HD3	1.45	0.42
1:H:270:ASN:ND2	1:Y:472:ASP:HA	2.35	0.42
1:H:614:GLN:HA	1:W:632:ASP:OD1	2.19	0.42
1:I:371:MET:SD	1:J:668:PHE:HA	2.59	0.42
1:J:262:ARG:HB3	1:J:275:PHE:CE1	2.55	0.42
1:K:472:ASP:HB3	1:K:475:TYR:HD2	1.85	0.42
1:K:614:GLN:HA	1:a:632:ASP:OD1	2.19	0.42
1:L:335:ASN:HD22	1:L:679:GLN:NE2	2.18	0.42
1:N:335:ASN:HD22	1:N:679:GLN:NE2	2.18	0.42
1:N:365:PHE:HA	1:N:366:PRO:HD3	1.94	0.42
1:O:489:GLN:HE22	1:n:591:GLN:H	1.66	0.42
1:Q:725:GLY:HA2	1:S:260:TYR:O	2.20	0.42
1:R:270:ASN:ND2	1:U:472:ASP:HA	2.35	0.42
1:T:472:ASP:HB3	1:T:475:TYR:HD2	1.85	0.42
1:V:260:TYR:O	1:W:725:GLY:HA2	2.20	0.42
1:V:262:ARG:HB3	1:V:275:PHE:CE1	2.55	0.42
1:V:354:MET:HB2	1:V:652:GLN:HE21	1.84	0.42
1:V:591:GLN:H	1:e:489:GLN:HE22	1.67	0.42
1:X:472:ASP:HB3	1:X:475:TYR:HD2	1.85	0.42
1:Z:472:ASP:HA	1:4:270:ASN:ND2	2.34	0.42
1:c:262:ARG:HB3	1:c:275:PHE:CE1	2.55	0.42
1:e:262:ARG:HB3	1:e:275:PHE:CE1	2.55	0.42
1:g:260:TYR:O	1:k:725:GLY:HA2	2.20	0.42
1:g:354:MET:HB2	1:g:652:GLN:HE21	1.84	0.42
1:k:243:THR:HG21	1:k:688:GLN:HE21	1.84	0.42
1:k:260:TYR:O	1:w:725:GLY:HA2	2.19	0.42
1:k:262:ARG:HB3	1:k:275:PHE:CE1	2.55	0.42
1:k:718:LEU:HG	1:k:730:LEU:HD12	2.02	0.42
1:m:312:ARG:NE	1:m:412:GLU:OE2	2.41	0.42
1:n:434:ARG:HD3	1:n:434:ARG:HA	1.45	0.42
1:o:371:MET:SD	1:7:668:PHE:HA	2.60	0.42
1:p:312:ARG:NE	1:p:412:GLU:OE2	2.41	0.42
1:p:354:MET:HB2	1:p:652:GLN:HE21	1.84	0.42
1:r:260:TYR:O	1:x:725:GLY:HA2	2.20	0.42
1:s:335:ASN:HD22	1:s:679:GLN:NE2	2.18	0.42
1:t:260:TYR:O	1:y:725:GLY:HA2	2.20	0.42
1:t:262:ARG:HB3	1:t:275:PHE:CE1	2.55	0.42
1:t:725:GLY:HA2	1:6:260:TYR:O	2.19	0.42
1:u:371:MET:SD	1:2:668:PHE:HA	2.59	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:v:668:PHE:HA	1:1:371:MET:SD	2.59	0.42
1:x:354:MET:HB2	1:x:652:GLN:HE21	1.84	0.42
1:x:472:ASP:HB3	1:x:475:TYR:HD2	1.85	0.42
1:x:614:GLN:HA	1:y:632:ASP:OD1	2.19	0.42
1:y:243:THR:HG21	1:y:688:GLN:HE21	1.84	0.42
1:y:262:ARG:HB3	1:y:275:PHE:CE1	2.55	0.42
1:2:262:ARG:HB3	1:2:275:PHE:CE1	2.55	0.42
1:2:279:TRP:CD1	1:2:397:LEU:HD12	2.54	0.42
1:2:636:HIS:O	1:2:638:SER:N	2.50	0.42
1:5:260:TYR:O	1:8:725:GLY:HA2	2.19	0.42
1:A:335:ASN:HD22	1:A:679:GLN:NE2	2.18	0.41
1:C:260:TYR:O	1:D:725:GLY:HA2	2.20	0.41
1:C:472:ASP:HB3	1:C:475:TYR:HD2	1.85	0.41
1:D:243:THR:HG21	1:D:688:GLN:HE21	1.84	0.41
1:D:270:ASN:ND2	1:P:472:ASP:HA	2.35	0.41
1:E:312:ARG:NE	1:E:412:GLU:OE2	2.41	0.41
1:F:354:MET:HB2	1:F:652:GLN:HE21	1.84	0.41
1:F:632:ASP:OD1	1:Q:614:GLN:HA	2.19	0.41
1:F:725:GLY:HA2	1:G:260:TYR:O	2.20	0.41
1:G:636:HIS:O	1:G:638:SER:N	2.49	0.41
1:H:260:TYR:O	1:Z:725:GLY:HA2	2.19	0.41
1:H:335:ASN:HD22	1:H:679:GLN:NE2	2.18	0.41
1:H:591:GLN:H	1:W:489:GLN:HE22	1.66	0.41
1:M:354:MET:HB2	1:M:652:GLN:HE21	1.84	0.41
1:Q:354:MET:HB2	1:Q:652:GLN:HE21	1.84	0.41
1:T:262:ARG:HB3	1:T:275:PHE:CE1	2.55	0.41
1:V:312:ARG:NE	1:V:412:GLU:OE2	2.41	0.41
1:X:371:MET:SD	1:Y:668:PHE:HA	2.60	0.41
1:c:489:GLN:HE22	1:p:591:GLN:H	1.67	0.41
1:g:335:ASN:HD22	1:g:679:GLN:NE2	2.18	0.41
1:h:354:MET:HB2	1:h:652:GLN:HE21	1.84	0.41
1:j:472:ASP:HA	1:k:270:ASN:ND2	2.35	0.41
1:l:608:VAL:HG22	1:l:609:PRO:HD2	2.01	0.41
1:p:260:TYR:O	1:6:725:GLY:HA2	2.20	0.41
1:p:262:ARG:HB3	1:p:275:PHE:CE1	2.55	0.41
1:q:270:ASN:ND2	1:s:472:ASP:HA	2.35	0.41
1:v:335:ASN:HD22	1:v:679:GLN:NE2	2.18	0.41
1:y:354:MET:HB2	1:y:652:GLN:HE21	1.84	0.41
1:y:608:VAL:HG22	1:y:609:PRO:HD2	2.01	0.41
1:z:335:ASN:HD22	1:z:679:GLN:NE2	2.18	0.41
1:z:718:LEU:HG	1:z:730:LEU:HD12	2.02	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:3:354:MET:HB2	1:3:652:GLN:HE21	1.84	0.41
1:3:501:ILE:N	1:4:450:THR:OG1	2.44	0.41
1:5:632:ASP:OD1	1:7:614:GLN:HA	2.19	0.41
1:A:668:PHE:HA	1:B:371:MET:SD	2.59	0.41
1:B:608:VAL:HG22	1:B:609:PRO:HD2	2.01	0.41
1:F:243:THR:HG21	1:F:688:GLN:HE21	1.84	0.41
1:F:608:VAL:HG22	1:F:609:PRO:HD2	2.01	0.41
1:G:472:ASP:HA	1:I:270:ASN:ND2	2.34	0.41
1:G:725:GLY:HA2	1:W:260:TYR:O	2.19	0.41
1:K:445:TRP:CE2	1:a:549:ALA:HB2	2.56	0.41
1:L:262:ARG:HB3	1:L:275:PHE:CE1	2.55	0.41
1:L:718:LEU:HG	1:L:730:LEU:HD12	2.02	0.41
1:N:725:GLY:HA2	1:m:260:TYR:O	2.20	0.41
1:O:371:MET:SD	1:P:668:PHE:HA	2.59	0.41
1:P:335:ASN:HD22	1:P:679:GLN:NE2	2.18	0.41
1:T:260:TYR:O	1:i:725:GLY:HA2	2.20	0.41
1:T:489:GLN:HE22	1:l:591:GLN:H	1.67	0.41
1:V:270:ASN:ND2	1:X:472:ASP:HA	2.34	0.41
1:W:335:ASN:HD22	1:W:679:GLN:NE2	2.18	0.41
1:W:445:TRP:CE2	1:Y:549:ALA:HB2	2.56	0.41
1:Z:262:ARG:HB3	1:Z:275:PHE:CE1	2.55	0.41
1:a:354:MET:HB2	1:a:652:GLN:HE21	1.84	0.41
1:b:312:ARG:NE	1:b:412:GLU:OE2	2.41	0.41
1:c:335:ASN:HD22	1:c:679:GLN:NE2	2.18	0.41
1:e:335:ASN:HD22	1:e:679:GLN:NE2	2.18	0.41
1:f:243:THR:HG21	1:f:688:GLN:HE21	1.84	0.41
1:g:501:ILE:N	1:h:450:THR:OG1	2.43	0.41
1:g:636:HIS:O	1:g:638:SER:N	2.50	0.41
1:m:262:ARG:HB3	1:m:275:PHE:CE1	2.55	0.41
1:n:312:ARG:NE	1:n:412:GLU:OE2	2.41	0.41
1:n:436:MET:H	1:n:436:MET:HG2	1.65	0.41
1:o:335:ASN:HD22	1:o:679:GLN:NE2	2.18	0.41
1:o:472:ASP:HA	1:p:270:ASN:ND2	2.34	0.41
1:t:636:HIS:O	1:t:638:SER:N	2.49	0.41
1:u:472:ASP:HB3	1:u:475:TYR:HD2	1.85	0.41
1:x:335:ASN:HD22	1:x:679:GLN:NE2	2.18	0.41
1:x:608:VAL:HG22	1:x:609:PRO:HD2	2.01	0.41
1:z:445:TRP:CE2	1:1:549:ALA:HB2	2.56	0.41
1:z:472:ASP:HA	1:1:270:ASN:ND2	2.35	0.41
1:3:549:ALA:HB2	1:4:445:TRP:CE2	2.56	0.41
1:5:270:ASN:ND2	1:7:472:ASP:HA	2.35	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:5:335:ASN:HD22	1:5:679:GLN:NE2	2.18	0.41
1:5:591:GLN:H	1:6:489:GLN:HE22	1.66	0.41
1:6:335:ASN:HD22	1:6:679:GLN:NE2	2.18	0.41
1:6:445:TRP:CE2	1:7:549:ALA:HB2	2.56	0.41
1:6:472:ASP:HA	1:7:270:ASN:ND2	2.35	0.41
1:B:262:ARG:HB3	1:B:275:PHE:CE1	2.55	0.41
1:C:501:ILE:N	1:M:450:THR:OG1	2.43	0.41
1:E:501:ILE:N	1:F:450:THR:OG1	2.44	0.41
1:G:472:ASP:HB3	1:G:475:TYR:HD2	1.85	0.41
1:I:472:ASP:HB3	1:I:475:TYR:HD2	1.85	0.41
1:J:243:THR:HG21	1:J:688:GLN:HE21	1.84	0.41
1:K:260:TYR:O	1:7:725:GLY:HA2	2.20	0.41
1:O:608:VAL:HG22	1:O:609:PRO:HD2	2.01	0.41
1:O:718:LEU:HG	1:O:730:LEU:HD12	2.01	0.41
1:P:725:GLY:HA2	1:Q:260:TYR:O	2.20	0.41
1:Q:335:ASN:HD22	1:Q:679:GLN:NE2	2.18	0.41
1:Q:608:VAL:HG22	1:Q:609:PRO:HD2	2.01	0.41
1:R:335:ASN:HD22	1:R:679:GLN:NE2	2.18	0.41
1:S:262:ARG:HB3	1:S:275:PHE:CE1	2.55	0.41
1:T:450:THR:OG1	1:d:501:ILE:N	2.44	0.41
1:T:472:ASP:HA	1:d:270:ASN:ND2	2.34	0.41
1:W:472:ASP:HA	1:Y:270:ASN:ND2	2.35	0.41
1:X:335:ASN:HD22	1:X:679:GLN:NE2	2.18	0.41
1:Y:725:GLY:HA2	1:4:260:TYR:O	2.20	0.41
1:b:243:THR:HG21	1:b:688:GLN:HE21	1.84	0.41
1:d:262:ARG:HB3	1:d:275:PHE:CE1	2.55	0.41
1:f:436:MET:H	1:f:436:MET:HG2	1.65	0.41
1:j:335:ASN:HD22	1:j:679:GLN:NE2	2.18	0.41
1:j:725:GLY:HA2	1:x:260:TYR:O	2.20	0.41
1:l:262:ARG:HB3	1:l:275:PHE:CE1	2.55	0.41
1:l:718:LEU:HG	1:l:730:LEU:HD12	2.01	0.41
1:m:365:PHE:HA	1:m:366:PRO:HD3	1.94	0.41
1:m:450:THR:OG1	1:n:501:ILE:N	2.44	0.41
1:m:472:ASP:HA	1:n:270:ASN:ND2	2.34	0.41
1:n:262:ARG:HB3	1:n:275:PHE:CE1	2.55	0.41
1:r:262:ARG:HB3	1:r:275:PHE:CE1	2.55	0.41
1:t:270:ASN:ND2	1:v:472:ASP:HA	2.35	0.41
1:v:371:MET:SD	1:w:668:PHE:HA	2.59	0.41
1:w:636:HIS:O	1:w:638:SER:N	2.49	0.41
1:z:262:ARG:HB3	1:z:275:PHE:CE1	2.55	0.41
1:z:270:ASN:ND2	1:2:472:ASP:HA	2.35	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1:262:ARG:HB3	1:1:275:PHE:CE1	2.55	0.41
1:1:608:VAL:HG22	1:1:609:PRO:HD2	2.01	0.41
1:5:445:TRP:CE2	1:6:549:ALA:HB2	2.56	0.41
1:8:262:ARG:HB3	1:8:275:PHE:CE1	2.55	0.41
1:A:371:MET:SD	1:E:668:PHE:HA	2.59	0.41
1:A:472:ASP:HA	1:G:270:ASN:ND2	2.35	0.41
1:B:472:ASP:HA	1:J:270:ASN:ND2	2.35	0.41
1:E:718:LEU:HG	1:E:730:LEU:HD12	2.02	0.41
1:H:445:TRP:CE2	1:W:549:ALA:HB2	2.56	0.41
1:J:472:ASP:HA	1:L:270:ASN:ND2	2.35	0.41
1:K:450:THR:OG1	1:a:501:ILE:N	2.44	0.41
1:M:262:ARG:HB3	1:M:275:PHE:CE1	2.55	0.41
1:O:262:ARG:HB3	1:O:275:PHE:CE1	2.55	0.41
1:O:591:GLN:H	1:m:489:GLN:HE22	1.67	0.41
1:P:551:PRO:HB3	1:P:728:HIS:ND1	2.36	0.41
1:S:472:ASP:HA	1:U:270:ASN:ND2	2.35	0.41
1:T:270:ASN:ND2	1:l:472:ASP:HA	2.34	0.41
1:T:312:ARG:NE	1:T:412:GLU:OE2	2.41	0.41
1:T:718:LEU:HG	1:T:730:LEU:HD12	2.02	0.41
1:V:718:LEU:HG	1:V:730:LEU:HD12	2.01	0.41
1:W:436:MET:H	1:W:436:MET:HG2	1.65	0.41
1:X:270:ASN:ND2	1:e:472:ASP:HA	2.35	0.41
1:X:718:LEU:HG	1:X:730:LEU:HD12	2.02	0.41
1:c:472:ASP:HA	1:o:270:ASN:ND2	2.35	0.41
1:c:718:LEU:HG	1:c:730:LEU:HD12	2.02	0.41
1:e:718:LEU:HG	1:e:730:LEU:HD12	2.02	0.41
1:g:472:ASP:HB3	1:g:475:TYR:HD2	1.85	0.41
1:h:262:ARG:HB3	1:h:275:PHE:CE1	2.55	0.41
1:j:551:PRO:HB3	1:j:728:HIS:ND1	2.36	0.41
1:j:668:PHE:HA	1:l:371:MET:SD	2.60	0.41
1:m:718:LEU:HG	1:m:730:LEU:HD12	2.02	0.41
1:p:718:LEU:HG	1:p:730:LEU:HD12	2.01	0.41
1:q:335:ASN:HD22	1:q:679:GLN:NE2	2.18	0.41
1:r:472:ASP:HA	1:s:270:ASN:ND2	2.35	0.41
1:t:472:ASP:HA	1:u:270:ASN:ND2	2.34	0.41
1:u:365:PHE:HA	1:u:366:PRO:HD3	1.94	0.41
1:w:718:LEU:HG	1:w:730:LEU:HD12	2.02	0.41
1:y:365:PHE:HA	1:y:366:PRO:HD3	1.94	0.41
1:z:551:PRO:HB3	1:z:728:HIS:ND1	2.36	0.41
1:6:551:PRO:HB3	1:6:728:HIS:ND1	2.36	0.41
1:A:341:GLN:O	1:A:655:ILE:HA	2.21	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:668:PHE:CD1	1:B:373:PRO:HA	2.56	0.41
1:B:428:HIS:HE1	1:J:630:HIS:O	2.04	0.41
1:D:312:ARG:NE	1:D:412:GLU:OE2	2.41	0.41
1:J:312:ARG:NE	1:J:412:GLU:OE2	2.41	0.41
1:K:591:GLN:H	1:a:489:GLN:HE22	1.66	0.41
1:L:551:PRO:HB3	1:L:728:HIS:ND1	2.36	0.41
1:M:243:THR:HG21	1:M:688:GLN:HE21	1.84	0.41
1:M:341:GLN:O	1:M:655:ILE:HA	2.21	0.41
1:N:341:GLN:O	1:N:655:ILE:HA	2.21	0.41
1:O:472:ASP:HA	1:m:270:ASN:ND2	2.34	0.41
1:V:335:ASN:HD22	1:V:679:GLN:NE2	2.18	0.41
1:V:551:PRO:HB3	1:V:728:HIS:ND1	2.36	0.41
1:W:383:GLY:H	1:W:519:ASN:HD21	1.69	0.41
1:W:551:PRO:HB3	1:W:728:HIS:ND1	2.36	0.41
1:b:341:GLN:O	1:b:655:ILE:HA	2.21	0.41
1:d:445:TRP:CE2	1:l:549:ALA:HB2	2.56	0.41
1:f:335:ASN:HD22	1:f:679:GLN:NE2	2.18	0.41
1:f:341:GLN:O	1:f:655:ILE:HA	2.21	0.41
1:h:243:THR:HG21	1:h:688:GLN:HE21	1.84	0.41
1:h:341:GLN:O	1:h:655:ILE:HA	2.21	0.41
1:i:341:GLN:O	1:i:655:ILE:HA	2.21	0.41
1:o:428:HIS:HE1	1:p:630:HIS:O	2.04	0.41
1:p:551:PRO:HB3	1:p:728:HIS:ND1	2.36	0.41
1:q:718:LEU:HG	1:q:730:LEU:HD12	2.02	0.41
1:r:472:ASP:HB3	1:r:475:TYR:HD2	1.85	0.41
1:t:472:ASP:HB3	1:t:475:TYR:HD2	1.85	0.41
1:v:341:GLN:O	1:v:655:ILE:HA	2.21	0.41
1:v:436:MET:H	1:v:436:MET:HG2	1.65	0.41
1:z:549:ALA:HB2	1:2:445:TRP:CE2	2.55	0.41
1:1:445:TRP:CE2	1:2:549:ALA:HB2	2.56	0.41
1:2:725:GLY:HA2	1:3:260:TYR:O	2.20	0.41
1:6:383:GLY:H	1:6:519:ASN:HD21	1.69	0.41
1:A:718:LEU:HG	1:A:730:LEU:HD12	2.02	0.41
1:B:445:TRP:CE2	1:J:549:ALA:HB2	2.56	0.41
1:B:549:ALA:HB2	1:L:445:TRP:CE2	2.56	0.41
1:C:668:PHE:CD1	1:D:373:PRO:HA	2.56	0.41
1:D:341:GLN:O	1:D:655:ILE:HA	2.21	0.41
1:D:549:ALA:HB2	1:P:445:TRP:CE2	2.56	0.41
1:F:383:GLY:H	1:F:519:ASN:HD21	1.69	0.41
1:I:335:ASN:HD22	1:I:679:GLN:NE2	2.18	0.41
1:I:551:PRO:HB3	1:I:728:HIS:ND1	2.36	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:O:549:ALA:HB2	1:n:445:TRP:CE2	2.56	0.41
1:O:668:PHE:CD1	1:d:373:PRO:HA	2.56	0.41
1:R:472:ASP:HB3	1:R:475:TYR:HD2	1.85	0.41
1:R:668:PHE:HA	1:V:371:MET:SD	2.59	0.41
1:R:718:LEU:HG	1:R:730:LEU:HD12	2.02	0.41
1:V:341:GLN:O	1:V:655:ILE:HA	2.21	0.41
1:V:630:HIS:O	1:X:428:HIS:HE1	2.04	0.41
1:W:428:HIS:HE1	1:Y:630:HIS:O	2.04	0.41
1:X:262:ARG:HB3	1:X:275:PHE:CE1	2.55	0.41
1:Z:243:THR:HG21	1:Z:688:GLN:HE21	1.84	0.41
1:Z:630:HIS:O	1:3:428:HIS:HE1	2.04	0.41
1:a:428:HIS:HE1	1:8:630:HIS:O	2.04	0.41
1:a:445:TRP:CE2	1:8:549:ALA:HB2	2.56	0.41
1:b:335:ASN:HD22	1:b:679:GLN:NE2	2.18	0.41
1:b:718:LEU:HG	1:b:730:LEU:HD12	2.02	0.41
1:f:312:ARG:NE	1:f:412:GLU:OE2	2.41	0.41
1:f:630:HIS:O	1:g:428:HIS:HE1	2.04	0.41
1:f:718:LEU:HG	1:f:730:LEU:HD12	2.02	0.41
1:i:445:TRP:CE2	1:j:549:ALA:HB2	2.56	0.41
1:j:434:ARG:HD3	1:j:434:ARG:HA	1.45	0.41
1:j:445:TRP:CE2	1:k:549:ALA:HB2	2.56	0.41
1:k:341:GLN:O	1:k:655:ILE:HA	2.21	0.41
1:l:668:PHE:CD1	1:n:373:PRO:HA	2.56	0.41
1:o:262:ARG:HB3	1:o:275:PHE:CE1	2.55	0.41
1:o:718:LEU:HG	1:o:730:LEU:HD12	2.02	0.41
1:p:335:ASN:HD22	1:p:679:GLN:NE2	2.18	0.41
1:p:371:MET:SD	1:q:668:PHE:HA	2.59	0.41
1:p:472:ASP:HB3	1:p:475:TYR:HD2	1.85	0.41
1:t:718:LEU:HG	1:t:730:LEU:HD12	2.02	0.41
1:w:312:ARG:NE	1:w:412:GLU:OE2	2.41	0.41
1:y:383:GLY:H	1:y:519:ASN:HD21	1.69	0.41
1:y:551:PRO:HB3	1:y:728:HIS:ND1	2.36	0.41
1:z:472:ASP:HB3	1:z:475:TYR:HD2	1.85	0.41
1:z:526:ALA:CB	1:2:477:ARG:HD2	2.51	0.41
1:z:668:PHE:HA	1:4:371:MET:SD	2.60	0.41
1:1:428:HIS:HE1	1:2:630:HIS:O	2.04	0.41
1:2:243:THR:HG21	1:2:688:GLN:HE21	1.84	0.41
1:2:551:PRO:HB3	1:2:728:HIS:ND1	2.36	0.41
1:6:428:HIS:HE1	1:7:630:HIS:O	2.04	0.41
1:8:243:THR:HG21	1:8:688:GLN:HE21	1.84	0.41
1:C:428:HIS:HE1	1:b:630:HIS:O	2.04	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:591:GLN:H	1:Q:489:GLN:HE22	1.67	0.41
1:F:335:ASN:HD22	1:F:679:GLN:NE2	2.18	0.41
1:F:551:PRO:HB3	1:F:728:HIS:ND1	2.36	0.41
1:G:718:LEU:HG	1:G:730:LEU:HD12	2.02	0.41
1:H:373:PRO:HA	1:I:668:PHE:CD1	2.56	0.41
1:H:551:PRO:HB3	1:H:728:HIS:ND1	2.36	0.41
1:H:630:HIS:O	1:Y:428:HIS:HE1	2.04	0.41
1:H:725:GLY:HA2	1:I:260:TYR:O	2.20	0.41
1:I:262:ARG:HB3	1:I:275:PHE:CE1	2.55	0.41
1:J:551:PRO:HB3	1:J:728:HIS:ND1	2.36	0.41
1:J:725:GLY:HA2	1:a:260:TYR:O	2.20	0.41
1:K:428:HIS:HE1	1:a:630:HIS:O	2.04	0.41
1:L:472:ASP:HB3	1:L:475:TYR:HD2	1.85	0.41
1:M:335:ASN:HD22	1:M:679:GLN:NE2	2.18	0.41
1:M:718:LEU:HG	1:M:730:LEU:HD12	2.02	0.41
1:N:445:TRP:CE2	1:P:549:ALA:HB2	2.56	0.41
1:O:428:HIS:HE1	1:m:630:HIS:O	2.04	0.41
1:Q:262:ARG:HB3	1:Q:275:PHE:CE1	2.55	0.41
1:R:383:GLY:H	1:R:519:ASN:HD21	1.69	0.41
1:R:668:PHE:CD1	1:V:373:PRO:HA	2.56	0.41
1:S:472:ASP:HB3	1:S:475:TYR:HD2	1.85	0.41
1:S:542:SER:OG	1:S:579:ASP:OD2	2.26	0.41
1:T:630:HIS:O	1:l:428:HIS:HE1	2.04	0.41
1:V:472:ASP:HB3	1:V:475:TYR:HD2	1.85	0.41
1:Z:549:ALA:HB2	1:3:445:TRP:CE2	2.56	0.41
1:c:243:THR:HG21	1:c:688:GLN:HE21	1.84	0.41
1:c:551:PRO:HB3	1:c:728:HIS:ND1	2.36	0.41
1:d:551:PRO:HB3	1:d:728:HIS:ND1	2.36	0.41
1:e:551:PRO:HB3	1:e:728:HIS:ND1	2.36	0.41
1:g:630:HIS:O	1:h:428:HIS:HE1	2.04	0.41
1:g:668:PHE:CD1	1:k:373:PRO:HA	2.56	0.41
1:h:335:ASN:HD22	1:h:679:GLN:NE2	2.18	0.41
1:j:488:GLN:NE2	1:j:543:ASN:HB2	2.36	0.41
1:n:335:ASN:HD22	1:n:679:GLN:NE2	2.18	0.41
1:n:551:PRO:HB3	1:n:728:HIS:ND1	2.36	0.41
1:p:341:GLN:O	1:p:655:ILE:HA	2.21	0.41
1:p:373:PRO:HA	1:q:668:PHE:CD1	2.56	0.41
1:q:383:GLY:H	1:q:519:ASN:HD21	1.69	0.41
1:q:472:ASP:HB3	1:q:475:TYR:HD2	1.85	0.41
1:s:262:ARG:HB3	1:s:275:PHE:CE1	2.55	0.41
1:u:335:ASN:HD22	1:u:679:GLN:NE2	2.18	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:u:428:HIS:HE1	1:v:630:HIS:O	2.04	0.41
1:u:551:PRO:HB3	1:u:728:HIS:ND1	2.36	0.41
1:v:718:LEU:HG	1:v:730:LEU:HD12	2.02	0.41
1:w:501:ILE:N	1:y:450:THR:OG1	2.44	0.41
1:x:262:ARG:HB3	1:x:275:PHE:CE1	2.55	0.41
1:x:718:LEU:HG	1:x:730:LEU:HD12	2.02	0.41
1:y:335:ASN:HD22	1:y:679:GLN:NE2	2.18	0.41
1:3:262:ARG:HB3	1:3:275:PHE:CE1	2.55	0.41
1:3:630:HIS:O	1:4:428:HIS:HE1	2.04	0.41
1:5:630:HIS:O	1:7:428:HIS:HE1	2.04	0.41
1:6:262:ARG:HB3	1:6:275:PHE:CE1	2.55	0.41
1:8:341:GLN:O	1:8:655:ILE:HA	2.21	0.41
1:A:260:TYR:O	1:B:725:GLY:HA2	2.20	0.41
1:B:668:PHE:CD1	1:C:373:PRO:HA	2.56	0.41
1:C:262:ARG:HB3	1:C:275:PHE:CE1	2.55	0.41
1:C:445:TRP:CE2	1:b:549:ALA:HB2	2.56	0.41
1:E:477:ARG:HD2	1:Q:526:ALA:CB	2.51	0.41
1:G:551:PRO:HB3	1:G:728:HIS:ND1	2.36	0.41
1:H:262:ARG:HB3	1:H:275:PHE:CE1	2.55	0.41
1:H:341:GLN:O	1:H:655:ILE:HA	2.21	0.41
1:H:488:GLN:NE2	1:H:543:ASN:HB2	2.36	0.41
1:I:365:PHE:HA	1:I:366:PRO:HD3	1.94	0.41
1:J:718:LEU:HG	1:J:730:LEU:HD12	2.02	0.41
1:O:488:GLN:NE2	1:O:543:ASN:HB2	2.36	0.41
1:P:488:GLN:NE2	1:P:543:ASN:HB2	2.36	0.41
1:Q:718:LEU:HG	1:Q:730:LEU:HD12	2.02	0.41
1:R:428:HIS:HE1	1:S:630:HIS:O	2.04	0.41
1:R:434:ARG:HD3	1:R:434:ARG:HA	1.45	0.41
1:R:488:GLN:NE2	1:R:543:ASN:HB2	2.36	0.41
1:U:262:ARG:HB3	1:U:275:PHE:CE1	2.55	0.41
1:U:488:GLN:NE2	1:U:543:ASN:HB2	2.36	0.41
1:V:428:HIS:HE1	1:e:630:HIS:O	2.04	0.41
1:V:549:ALA:HB2	1:X:445:TRP:CE2	2.56	0.41
1:X:549:ALA:HB2	1:e:445:TRP:CE2	2.56	0.41
1:Z:341:GLN:O	1:Z:655:ILE:HA	2.21	0.41
1:a:262:ARG:HB3	1:a:275:PHE:CE1	2.55	0.41
1:c:445:TRP:CE2	1:o:549:ALA:HB2	2.56	0.41
1:c:630:HIS:O	1:p:428:HIS:HE1	2.04	0.41
1:e:243:THR:HG21	1:e:688:GLN:HE21	1.84	0.41
1:g:262:ARG:HB3	1:g:275:PHE:CE1	2.55	0.41
1:g:373:PRO:HA	1:l:668:PHE:CD1	2.56	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:h:718:LEU:HG	1:h:730:LEU:HD12	2.02	0.41
1:l:488:GLN:NE2	1:l:543:ASN:HB2	2.36	0.41
1:n:472:ASP:HB3	1:n:475:TYR:HD2	1.85	0.41
1:o:445:TRP:CE2	1:p:549:ALA:HB2	2.56	0.41
1:q:488:GLN:NE2	1:q:543:ASN:HB2	2.36	0.41
1:s:488:GLN:NE2	1:s:543:ASN:HB2	2.36	0.41
1:u:260:TYR:O	1:5:725:GLY:HA2	2.20	0.41
1:u:262:ARG:HB3	1:u:275:PHE:CE1	2.55	0.41
1:u:668:PHE:CD1	1:5:373:PRO:HA	2.56	0.41
1:v:262:ARG:HB3	1:v:275:PHE:CE1	2.55	0.41
1:v:725:GLY:HA2	1:w:260:TYR:O	2.20	0.41
1:w:477:ARG:HD2	1:x:526:ALA:CB	2.51	0.41
1:w:549:ALA:HB2	1:y:445:TRP:CE2	2.56	0.41
1:x:551:PRO:HB3	1:x:728:HIS:ND1	2.36	0.41
1:z:341:GLN:O	1:z:655:ILE:HA	2.21	0.41
1:z:428:HIS:HE1	1:1:630:HIS:O	2.03	0.41
1:1:472:ASP:HA	1:2:270:ASN:ND2	2.35	0.41
1:3:489:GLN:HE22	1:4:591:GLN:H	1.66	0.41
1:5:341:GLN:O	1:5:655:ILE:HA	2.21	0.41
1:5:488:GLN:NE2	1:5:543:ASN:HB2	2.36	0.41
1:5:551:PRO:HB3	1:5:728:HIS:ND1	2.36	0.41
1:A:262:ARG:HB3	1:A:275:PHE:CE1	2.55	0.41
1:A:488:GLN:NE2	1:A:543:ASN:HB2	2.36	0.41
1:A:549:ALA:HB2	1:I:445:TRP:CE2	2.55	0.41
1:A:630:HIS:O	1:I:428:HIS:HE1	2.04	0.41
1:A:725:GLY:HA2	1:E:260:TYR:O	2.20	0.41
1:B:488:GLN:NE2	1:B:543:ASN:HB2	2.36	0.41
1:C:549:ALA:HB2	1:M:445:TRP:CE2	2.56	0.41
1:C:551:PRO:HB3	1:C:728:HIS:ND1	2.36	0.41
1:C:630:HIS:O	1:M:428:HIS:HE1	2.04	0.41
1:E:262:ARG:HB3	1:E:275:PHE:CE1	2.55	0.41
1:E:428:HIS:HE1	1:Q:630:HIS:O	2.04	0.41
1:E:549:ALA:HB2	1:F:445:TRP:CE2	2.56	0.41
1:F:526:ALA:CB	1:Q:477:ARG:HD2	2.51	0.41
1:F:630:HIS:O	1:Q:428:HIS:HE1	2.04	0.41
1:G:445:TRP:CE2	1:I:549:ALA:HB2	2.56	0.41
1:I:373:PRO:HA	1:J:668:PHE:CD1	2.56	0.41
1:J:445:TRP:CE2	1:L:549:ALA:HB2	2.56	0.41
1:J:472:ASP:HB3	1:J:475:TYR:HD2	1.85	0.41
1:J:477:ARG:HD2	1:L:526:ALA:CB	2.51	0.41
1:L:341:GLN:O	1:L:655:ILE:HA	2.21	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:542:SER:OG	1:M:579:ASP:OD2	2.26	0.41
1:M:630:HIS:O	1:b:428:HIS:HE1	2.04	0.41
1:P:373:PRO:HA	1:Q:668:PHE:CD1	2.56	0.41
1:Q:383:GLY:H	1:Q:519:ASN:HD21	1.69	0.41
1:Q:551:PRO:HB3	1:Q:728:HIS:ND1	2.36	0.41
1:R:337:THR:O	1:V:319:GLN:NE2	2.47	0.41
1:R:445:TRP:CE2	1:S:549:ALA:HB2	2.56	0.41
1:S:335:ASN:HD22	1:S:679:GLN:NE2	2.18	0.41
1:S:428:HIS:HE1	1:U:630:HIS:O	2.04	0.41
1:S:445:TRP:CE2	1:U:549:ALA:HB2	2.56	0.41
1:S:614:GLN:HA	1:U:632:ASP:OD1	2.19	0.41
1:T:373:PRO:HA	1:U:668:PHE:CD1	2.56	0.41
1:W:262:ARG:HB3	1:W:275:PHE:CE1	2.55	0.41
1:X:488:GLN:NE2	1:X:543:ASN:HB2	2.36	0.41
1:Y:718:LEU:HG	1:Y:730:LEU:HD12	2.01	0.41
1:a:718:LEU:HG	1:a:730:LEU:HD12	2.02	0.41
1:d:335:ASN:HD22	1:d:679:GLN:NE2	2.18	0.41
1:d:472:ASP:HB3	1:d:475:TYR:HD2	1.85	0.41
1:f:428:HIS:HE1	1:h:630:HIS:O	2.04	0.41
1:f:549:ALA:HB2	1:g:445:TRP:CE2	2.56	0.41
1:g:549:ALA:HB2	1:h:445:TRP:CE2	2.56	0.41
1:g:551:PRO:HB3	1:g:728:HIS:ND1	2.36	0.41
1:g:725:GLY:HA2	1:l:260:TYR:O	2.20	0.41
1:i:488:GLN:NE2	1:i:543:ASN:HB2	2.36	0.41
1:i:630:HIS:O	1:k:428:HIS:HE1	2.04	0.41
1:j:373:PRO:HA	1:x:668:PHE:CD1	2.56	0.41
1:k:312:ARG:NE	1:k:412:GLU:OE2	2.41	0.41
1:m:488:GLN:NE2	1:m:543:ASN:HB2	2.36	0.41
1:o:488:GLN:NE2	1:o:543:ASN:HB2	2.36	0.41
1:p:488:GLN:NE2	1:p:543:ASN:HB2	2.36	0.41
1:q:428:HIS:HE1	1:r:630:HIS:O	2.04	0.41
1:q:434:ARG:HD3	1:q:434:ARG:HA	1.45	0.41
1:q:445:TRP:CE2	1:r:549:ALA:HB2	2.56	0.41
1:r:335:ASN:HD22	1:r:679:GLN:NE2	2.18	0.41
1:r:428:HIS:HE1	1:s:630:HIS:O	2.04	0.41
1:r:445:TRP:CE2	1:s:549:ALA:HB2	2.56	0.41
1:r:542:SER:OG	1:r:579:ASP:OD2	2.26	0.41
1:r:614:GLN:HA	1:s:632:ASP:OD1	2.19	0.41
1:t:445:TRP:CE2	1:u:549:ALA:HB2	2.56	0.41
1:t:551:PRO:HB3	1:t:728:HIS:ND1	2.36	0.41
1:u:373:PRO:HA	1:2:668:PHE:CD1	2.56	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:v:260:TYR:O	1:1:725:GLY:HA2	2.19	0.41
1:v:668:PHE:CD1	1:1:373:PRO:HA	2.56	0.41
1:w:262:ARG:HB3	1:w:275:PHE:CE1	2.55	0.41
1:w:335:ASN:HD22	1:w:679:GLN:NE2	2.18	0.41
1:w:428:HIS:HE1	1:x:630:HIS:O	2.04	0.41
1:w:591:GLN:H	1:x:489:GLN:HE22	1.67	0.41
1:x:383:GLY:H	1:x:519:ASN:HD21	1.69	0.41
1:x:428:HIS:HE1	1:y:630:HIS:O	2.04	0.41
1:x:477:ARG:HD2	1:y:526:ALA:CB	2.51	0.41
1:z:668:PHE:CD1	1:4:373:PRO:HA	2.56	0.41
1:1:488:GLN:NE2	1:1:543:ASN:HB2	2.36	0.41
1:1:551:PRO:HB3	1:1:728:HIS:ND1	2.36	0.41
1:2:312:ARG:NE	1:2:412:GLU:OE2	2.41	0.41
1:2:472:ASP:HB3	1:2:475:TYR:HD2	1.85	0.41
1:2:718:LEU:HG	1:2:730:LEU:HD12	2.02	0.41
1:3:718:LEU:HG	1:3:730:LEU:HD12	2.02	0.41
1:5:262:ARG:HB3	1:5:275:PHE:CE1	2.55	0.41
1:5:549:ALA:HB2	1:7:445:TRP:CE2	2.56	0.41
1:6:436:MET:H	1:6:436:MET:HG2	1.65	0.41
1:7:718:LEU:HG	1:7:730:LEU:HD12	2.01	0.41
1:8:472:ASP:HB3	1:8:475:TYR:HD2	1.84	0.41
1:B:260:TYR:O	1:C:725:GLY:HA2	2.20	0.41
1:B:551:PRO:HB3	1:B:728:HIS:ND1	2.36	0.41
1:B:630:HIS:O	1:L:428:HIS:HE1	2.04	0.41
1:D:428:HIS:HE1	1:N:630:HIS:O	2.04	0.41
1:G:383:GLY:H	1:G:519:ASN:HD21	1.69	0.41
1:G:436:MET:H	1:G:436:MET:HG2	1.65	0.41
1:H:668:PHE:CD1	1:Z:373:PRO:HA	2.56	0.41
1:I:383:GLY:H	1:I:519:ASN:HD21	1.69	0.41
1:K:373:PRO:HA	1:L:668:PHE:CD1	2.56	0.41
1:K:477:ARG:HD2	1:a:526:ALA:CB	2.51	0.41
1:N:312:ARG:NE	1:N:412:GLU:OE2	2.41	0.41
1:N:488:GLN:NE2	1:N:543:ASN:HB2	2.36	0.41
1:R:477:ARG:HD2	1:S:526:ALA:CB	2.51	0.41
1:T:383:GLY:H	1:T:519:ASN:HD21	1.69	0.41
1:T:488:GLN:NE2	1:T:543:ASN:HB2	2.36	0.41
1:V:488:GLN:NE2	1:V:543:ASN:HB2	2.36	0.41
1:X:668:PHE:CD1	1:f:373:PRO:HA	2.56	0.41
1:b:373:PRO:HA	1:o:668:PHE:CD1	2.56	0.41
1:e:373:PRO:HA	1:h:668:PHE:CD1	2.56	0.41
1:h:383:GLY:H	1:h:519:ASN:HD21	1.69	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:m:373:PRO:HA	1:s:668:PHE:CD1	2.56	0.41
1:m:383:GLY:H	1:m:519:ASN:HD21	1.69	0.41
1:q:477:ARG:HD2	1:r:526:ALA:CB	2.51	0.41
1:t:373:PRO:HA	1:6:668:PHE:CD1	2.56	0.41
1:u:383:GLY:H	1:u:519:ASN:HD21	1.69	0.41
1:v:488:GLN:NE2	1:v:543:ASN:HB2	2.36	0.41
1:w:551:PRO:HB3	1:w:728:HIS:ND1	2.36	0.41
1:1:383:GLY:H	1:1:519:ASN:HD21	1.69	0.41
1:3:526:ALA:CB	1:4:477:ARG:HD2	2.51	0.41
1:5:668:PHE:CD1	1:8:373:PRO:HA	2.56	0.41
1:8:335:ASN:HD22	1:8:679:GLN:NE2	2.18	0.41
1:A:551:PRO:HB3	1:A:728:HIS:ND1	2.36	0.40
1:C:526:ALA:CB	1:M:477:ARG:HD2	2.51	0.40
1:D:337:THR:O	1:E:319:GLN:NE2	2.47	0.40
1:E:335:ASN:HD22	1:E:679:GLN:NE2	2.18	0.40
1:E:445:TRP:CE2	1:Q:549:ALA:HB2	2.56	0.40
1:E:551:PRO:HB3	1:E:728:HIS:ND1	2.36	0.40
1:F:488:GLN:NE2	1:F:543:ASN:HB2	2.36	0.40
1:G:373:PRO:HA	1:W:668:PHE:CD1	2.56	0.40
1:H:549:ALA:HB2	1:Y:445:TRP:CE2	2.56	0.40
1:J:373:PRO:HA	1:a:668:PHE:CD1	2.56	0.40
1:K:668:PHE:CD1	1:7:373:PRO:HA	2.56	0.40
1:M:373:PRO:HA	1:N:668:PHE:CD1	2.56	0.40
1:M:383:GLY:H	1:M:519:ASN:HD21	1.69	0.40
1:M:668:PHE:CD1	1:c:373:PRO:HA	2.56	0.40
1:N:551:PRO:HB3	1:N:728:HIS:ND1	2.36	0.40
1:O:373:PRO:HA	1:P:668:PHE:CD1	2.56	0.40
1:O:551:PRO:HB3	1:O:728:HIS:ND1	2.36	0.40
1:R:630:HIS:O	1:U:428:HIS:HE1	2.04	0.40
1:X:501:ILE:N	1:e:450:THR:OG1	2.44	0.40
1:Y:373:PRO:HA	1:4:668:PHE:CD1	2.56	0.40
1:Y:488:GLN:NE2	1:Y:543:ASN:HB2	2.36	0.40
1:Z:472:ASP:HB3	1:Z:475:TYR:HD2	1.85	0.40
1:c:668:PHE:CD1	1:s:373:PRO:HA	2.56	0.40
1:e:383:GLY:H	1:e:519:ASN:HD21	1.69	0.40
1:l:551:PRO:HB3	1:l:728:HIS:ND1	2.36	0.40
1:n:488:GLN:NE2	1:n:543:ASN:HB2	2.36	0.40
1:q:630:HIS:O	1:s:428:HIS:HE1	2.04	0.40
1:s:341:GLN:O	1:s:655:ILE:HA	2.21	0.40
1:t:383:GLY:H	1:t:519:ASN:HD21	1.69	0.40
1:t:477:ARG:HD2	1:u:526:ALA:CB	2.51	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:u:445:TRP:CE2	1:v:549:ALA:HB2	2.56	0.40
1:u:488:GLN:NE2	1:u:543:ASN:HB2	2.36	0.40
1:w:341:GLN:O	1:w:655:ILE:HA	2.21	0.40
1:x:341:GLN:O	1:x:655:ILE:HA	2.21	0.40
1:x:445:TRP:CE2	1:y:549:ALA:HB2	2.56	0.40
1:z:630:HIS:O	1:2:428:HIS:HE1	2.03	0.40
1:2:373:PRO:HA	1:3:668:PHE:CD1	2.56	0.40
1:4:262:ARG:HB3	1:4:275:PHE:CE1	2.55	0.40
1:7:488:GLN:NE2	1:7:543:ASN:HB2	2.36	0.40
1:A:445:TRP:CE2	1:G:549:ALA:HB2	2.56	0.40
1:E:341:GLN:O	1:E:655:ILE:HA	2.21	0.40
1:F:549:ALA:HB2	1:Q:445:TRP:CE2	2.56	0.40
1:G:477:ARG:HD2	1:I:526:ALA:CB	2.51	0.40
1:H:428:HIS:HE1	1:W:630:HIS:O	2.04	0.40
1:K:262:ARG:HB3	1:K:275:PHE:CE1	2.55	0.40
1:K:341:GLN:O	1:K:655:ILE:HA	2.21	0.40
1:K:526:ALA:CB	1:8:477:ARG:HD2	2.51	0.40
1:M:488:GLN:NE2	1:M:543:ASN:HB2	2.36	0.40
1:P:434:ARG:HD3	1:P:434:ARG:HA	1.45	0.40
1:Q:488:GLN:NE2	1:Q:543:ASN:HB2	2.36	0.40
1:R:398:GLU:OE1	1:R:398:GLU:N	2.54	0.40
1:S:341:GLN:O	1:S:655:ILE:HA	2.21	0.40
1:T:477:ARG:HD2	1:d:526:ALA:CB	2.51	0.40
1:U:341:GLN:O	1:U:655:ILE:HA	2.21	0.40
1:U:373:PRO:HA	1:e:668:PHE:CD1	2.56	0.40
1:V:626:ALA:HB3	1:V:639:PRO:HG3	2.04	0.40
1:X:373:PRO:HA	1:Y:668:PHE:CD1	2.56	0.40
1:X:383:GLY:H	1:X:519:ASN:HD21	1.69	0.40
1:Y:341:GLN:O	1:Y:655:ILE:HA	2.21	0.40
1:Z:335:ASN:HD22	1:Z:679:GLN:NE2	2.18	0.40
1:Z:477:ARG:HD2	1:4:526:ALA:CB	2.51	0.40
1:c:383:GLY:H	1:c:519:ASN:HD21	1.69	0.40
1:f:445:TRP:CE2	1:h:549:ALA:HB2	2.56	0.40
1:g:526:ALA:CB	1:h:477:ARG:HD2	2.51	0.40
1:h:373:PRO:HA	1:i:668:PHE:CD1	2.56	0.40
1:i:262:ARG:HB3	1:i:275:PHE:CE1	2.55	0.40
1:i:383:GLY:H	1:i:519:ASN:HD21	1.69	0.40
1:i:551:PRO:HB3	1:i:728:HIS:ND1	2.36	0.40
1:j:472:ASP:HB3	1:j:475:TYR:HD2	1.85	0.40
1:j:668:PHE:CD1	1:l:373:PRO:HA	2.56	0.40
1:o:477:ARG:HD2	1:p:526:ALA:CB	2.51	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:p:319:GLN:NE2	1:q:337:THR:O	2.47	0.40
1:p:626:ALA:HB3	1:p:639:PRO:HG3	2.04	0.40
1:r:383:GLY:H	1:r:519:ASN:HD21	1.69	0.40
1:t:549:ALA:HB2	1:v:445:TRP:CE2	2.56	0.40
1:w:445:TRP:CE2	1:x:549:ALA:HB2	2.56	0.40
1:y:488:GLN:NE2	1:y:543:ASN:HB2	2.36	0.40
1:1:636:HIS:O	1:1:638:SER:N	2.50	0.40
1:4:341:GLN:O	1:4:655:ILE:HA	2.21	0.40
1:5:398:GLU:OE1	1:5:398:GLU:N	2.54	0.40
1:B:383:GLY:H	1:B:519:ASN:HD21	1.69	0.40
1:B:477:ARG:HD2	1:J:526:ALA:CB	2.51	0.40
1:B:636:HIS:O	1:B:638:SER:N	2.50	0.40
1:D:551:PRO:HB3	1:D:728:HIS:ND1	2.36	0.40
1:G:341:GLN:O	1:G:655:ILE:HA	2.21	0.40
1:I:488:GLN:NE2	1:I:543:ASN:HB2	2.36	0.40
1:K:551:PRO:HB3	1:K:728:HIS:ND1	2.36	0.40
1:N:262:ARG:HB3	1:N:275:PHE:CE1	2.55	0.40
1:Q:341:GLN:O	1:Q:655:ILE:HA	2.21	0.40
1:R:365:PHE:HA	1:R:366:PRO:HD3	1.94	0.40
1:R:501:ILE:N	1:U:450:THR:OG1	2.43	0.40
1:R:526:ALA:CB	1:U:477:ARG:HD2	2.51	0.40
1:S:373:PRO:HA	1:d:668:PHE:CD1	2.56	0.40
1:S:383:GLY:H	1:S:519:ASN:HD21	1.69	0.40
1:S:488:GLN:NE2	1:S:543:ASN:HB2	2.36	0.40
1:T:549:ALA:HB2	1:l:445:TRP:CE2	2.56	0.40
1:T:626:ALA:HB3	1:T:639:PRO:HG3	2.04	0.40
1:U:551:PRO:HB3	1:U:728:HIS:ND1	2.36	0.40
1:V:445:TRP:CE2	1:e:549:ALA:HB2	2.56	0.40
1:V:526:ALA:CB	1:X:477:ARG:HD2	2.51	0.40
1:W:273:ASN:ND2	1:W:388:GLN:HG3	2.37	0.40
1:Y:551:PRO:HB3	1:Y:728:HIS:ND1	2.36	0.40
1:b:551:PRO:HB3	1:b:728:HIS:ND1	2.36	0.40
1:c:549:ALA:HB2	1:p:445:TRP:CE2	2.56	0.40
1:d:341:GLN:O	1:d:655:ILE:HA	2.21	0.40
1:d:365:PHE:HA	1:d:366:PRO:HD3	1.94	0.40
1:d:488:GLN:NE2	1:d:543:ASN:HB2	2.36	0.40
1:h:488:GLN:NE2	1:h:543:ASN:HB2	2.36	0.40
1:j:428:HIS:HE1	1:k:630:HIS:O	2.04	0.40
1:j:636:HIS:O	1:j:638:SER:N	2.50	0.40
1:m:341:GLN:O	1:m:655:ILE:HA	2.21	0.40
1:m:477:ARG:HD2	1:n:526:ALA:CB	2.51	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:m:626:ALA:HB3	1:m:639:PRO:HG3	2.04	0.40
1:o:373:PRO:HA	1:7:668:PHE:CD1	2.56	0.40
1:o:383:GLY:H	1:o:519:ASN:HD21	1.69	0.40
1:q:526:ALA:CB	1:s:477:ARG:HD2	2.51	0.40
1:r:341:GLN:O	1:r:655:ILE:HA	2.21	0.40
1:r:488:GLN:NE2	1:r:543:ASN:HB2	2.36	0.40
1:t:428:HIS:HE1	1:u:630:HIS:O	2.04	0.40
1:v:373:PRO:HA	1:w:668:PHE:CD1	2.56	0.40
1:v:551:PRO:HB3	1:v:728:HIS:ND1	2.36	0.40
1:x:488:GLN:NE2	1:x:543:ASN:HB2	2.36	0.40
1:z:626:ALA:HB3	1:z:639:PRO:HG3	2.04	0.40
1:3:341:GLN:O	1:3:655:ILE:HA	2.21	0.40
1:3:373:PRO:HA	1:8:668:PHE:CD1	2.56	0.40
1:5:428:HIS:HE1	1:6:630:HIS:O	2.04	0.40
1:7:341:GLN:O	1:7:655:ILE:HA	2.21	0.40
1:A:477:ARG:HD2	1:G:526:ALA:CB	2.52	0.40
1:D:526:ALA:CB	1:P:477:ARG:HD2	2.52	0.40
1:G:428:HIS:HE1	1:I:630:HIS:O	2.04	0.40
1:I:273:ASN:ND2	1:I:388:GLN:HG3	2.37	0.40
1:I:341:GLN:O	1:I:655:ILE:HA	2.21	0.40
1:I:636:HIS:O	1:I:638:SER:N	2.49	0.40
1:J:341:GLN:O	1:J:655:ILE:HA	2.21	0.40
1:K:273:ASN:ND2	1:K:388:GLN:HG3	2.37	0.40
1:K:363:PRO:HD3	1:K:370:PHE:HB3	2.04	0.40
1:M:549:ALA:HB2	1:b:445:TRP:CE2	2.56	0.40
1:M:626:ALA:HB3	1:M:639:PRO:HG3	2.04	0.40
1:N:383:GLY:H	1:N:519:ASN:HD21	1.69	0.40
1:N:398:GLU:OE1	1:N:398:GLU:N	2.54	0.40
1:O:445:TRP:CE2	1:m:549:ALA:HB2	2.56	0.40
1:P:262:ARG:HB3	1:P:275:PHE:CE1	2.55	0.40
1:P:472:ASP:HB3	1:P:475:TYR:HD2	1.85	0.40
1:P:636:HIS:O	1:P:638:SER:N	2.50	0.40
1:R:262:ARG:HB3	1:R:275:PHE:CE1	2.55	0.40
1:R:341:GLN:O	1:R:655:ILE:HA	2.21	0.40
1:S:551:PRO:HB3	1:S:728:HIS:ND1	2.36	0.40
1:T:341:GLN:O	1:T:655:ILE:HA	2.21	0.40
1:W:626:ALA:HB3	1:W:639:PRO:HG3	2.04	0.40
1:Z:668:PHE:CD1	1:a:373:PRO:HA	2.56	0.40
1:a:341:GLN:O	1:a:655:ILE:HA	2.21	0.40
1:d:626:ALA:HB3	1:d:639:PRO:HG3	2.04	0.40
1:e:341:GLN:O	1:e:655:ILE:HA	2.21	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:h:551:PRO:HB3	1:h:728:HIS:ND1	2.36	0.40
1:h:626:ALA:HB3	1:h:639:PRO:HG3	2.04	0.40
1:i:398:GLU:OE1	1:i:398:GLU:N	2.54	0.40
1:i:428:HIS:HE1	1:j:630:HIS:O	2.04	0.40
1:j:477:ARG:HD2	1:k:526:ALA:CB	2.52	0.40
1:n:626:ALA:HB3	1:n:639:PRO:HG3	2.04	0.40
1:n:668:PHE:CD1	1:r:373:PRO:HA	2.56	0.40
1:q:262:ARG:HB3	1:q:275:PHE:CE1	2.55	0.40
1:q:398:GLU:OE1	1:q:398:GLU:N	2.54	0.40
1:q:551:PRO:HB3	1:q:728:HIS:ND1	2.36	0.40
1:s:551:PRO:HB3	1:s:728:HIS:ND1	2.36	0.40
1:t:341:GLN:O	1:t:655:ILE:HA	2.21	0.40
1:u:273:ASN:ND2	1:u:388:GLN:HG3	2.37	0.40
1:u:636:HIS:O	1:u:638:SER:N	2.50	0.40
1:1:477:ARG:HD2	1:2:526:ALA:CB	2.51	0.40
1:2:341:GLN:O	1:2:655:ILE:HA	2.21	0.40
1:4:363:PRO:HD3	1:4:370:PHE:HB3	2.04	0.40
1:4:551:PRO:HB3	1:4:728:HIS:ND1	2.36	0.40
1:6:273:ASN:ND2	1:6:388:GLN:HG3	2.37	0.40
1:6:626:ALA:HB3	1:6:639:PRO:HG3	2.04	0.40
1:7:365:PHE:HA	1:7:366:PRO:HD3	1.94	0.40
1:7:551:PRO:HB3	1:7:728:HIS:ND1	2.36	0.40
1:A:373:PRO:HA	1:E:668:PHE:CD1	2.56	0.40
1:A:526:ALA:CB	1:I:477:ARG:HD2	2.51	0.40
1:C:477:ARG:HD2	1:b:526:ALA:CB	2.51	0.40
1:C:488:GLN:NE2	1:C:543:ASN:HB2	2.36	0.40
1:C:626:ALA:HB3	1:C:639:PRO:HG3	2.04	0.40
1:D:488:GLN:NE2	1:D:543:ASN:HB2	2.36	0.40
1:D:630:HIS:O	1:P:428:HIS:HE1	2.04	0.40
1:H:477:ARG:HD2	1:W:526:ALA:CB	2.52	0.40
1:H:480:TRP:CE2	1:W:629:PRO:HD3	2.57	0.40
1:J:428:HIS:HE1	1:L:630:HIS:O	2.04	0.40
1:J:488:GLN:NE2	1:J:543:ASN:HB2	2.36	0.40
1:L:436:MET:H	1:L:436:MET:HG2	1.65	0.40
1:L:626:ALA:HB3	1:L:639:PRO:HG3	2.04	0.40
1:O:341:GLN:O	1:O:655:ILE:HA	2.21	0.40
1:O:526:ALA:CB	1:n:477:ARG:HD2	2.52	0.40
1:O:626:ALA:HB3	1:O:639:PRO:HG3	2.04	0.40
1:O:629:PRO:HD3	1:n:480:TRP:CE2	2.57	0.40
1:P:341:GLN:O	1:P:655:ILE:HA	2.21	0.40
1:R:551:PRO:HB3	1:R:728:HIS:ND1	2.36	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:S:319:GLN:NE2	1:d:337:THR:O	2.47	0.40
1:T:668:PHE:CD1	1:i:373:PRO:HA	2.56	0.40
1:c:273:ASN:ND2	1:c:388:GLN:HG3	2.37	0.40
1:c:341:GLN:O	1:c:655:ILE:HA	2.21	0.40
1:c:450:THR:OG1	1:o:501:ILE:N	2.44	0.40
1:d:428:HIS:HE1	1:l:630:HIS:O	2.04	0.40
1:d:477:ARG:HD2	1:l:526:ALA:CB	2.52	0.40
1:d:480:TRP:CE2	1:l:629:PRO:HD3	2.57	0.40
1:e:542:SER:OG	1:e:579:ASP:OD2	2.26	0.40
1:f:526:ALA:CB	1:g:477:ARG:HD2	2.51	0.40
1:f:551:PRO:HB3	1:f:728:HIS:ND1	2.36	0.40
1:g:488:GLN:NE2	1:g:543:ASN:HB2	2.36	0.40
1:g:626:ALA:HB3	1:g:639:PRO:HG3	2.04	0.40
1:i:312:ARG:NE	1:i:412:GLU:OE2	2.41	0.40
1:i:363:PRO:HD3	1:i:370:PHE:HB3	2.04	0.40
1:i:626:ALA:HB3	1:i:639:PRO:HG3	2.04	0.40
1:j:262:ARG:HB3	1:j:275:PHE:CE1	2.55	0.40
1:k:337:THR:O	1:w:319:GLN:NE2	2.47	0.40
1:k:488:GLN:NE2	1:k:543:ASN:HB2	2.36	0.40
1:k:551:PRO:HB3	1:k:728:HIS:ND1	2.36	0.40
1:n:341:GLN:O	1:n:655:ILE:HA	2.21	0.40
1:q:341:GLN:O	1:q:655:ILE:HA	2.21	0.40
1:t:526:ALA:CB	1:v:477:ARG:HD2	2.52	0.40
1:t:630:HIS:O	1:v:428:HIS:HE1	2.04	0.40
1:4:273:ASN:ND2	1:4:388:GLN:HG3	2.37	0.40
1:5:480:TRP:CE2	1:6:629:PRO:HD3	2.57	0.40

There are no symmetry-related clashes.

5.3 Torsion angles [i](#)

5.3.1 Protein backbone [i](#)

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

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

Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	1	520/521 (100%)	511 (98%)	9 (2%)	0	100	100
1	2	520/521 (100%)	511 (98%)	9 (2%)	0	100	100
1	3	520/521 (100%)	511 (98%)	9 (2%)	0	100	100
1	4	520/521 (100%)	511 (98%)	9 (2%)	0	100	100
1	5	520/521 (100%)	511 (98%)	9 (2%)	0	100	100
1	6	520/521 (100%)	511 (98%)	9 (2%)	0	100	100
1	7	520/521 (100%)	511 (98%)	9 (2%)	0	100	100
1	8	520/521 (100%)	511 (98%)	9 (2%)	0	100	100
1	A	520/521 (100%)	511 (98%)	9 (2%)	0	100	100
1	B	520/521 (100%)	511 (98%)	9 (2%)	0	100	100
1	C	520/521 (100%)	511 (98%)	9 (2%)	0	100	100
1	D	520/521 (100%)	511 (98%)	9 (2%)	0	100	100
1	E	520/521 (100%)	511 (98%)	9 (2%)	0	100	100
1	F	520/521 (100%)	511 (98%)	9 (2%)	0	100	100
1	G	520/521 (100%)	511 (98%)	9 (2%)	0	100	100
1	H	520/521 (100%)	511 (98%)	9 (2%)	0	100	100
1	I	520/521 (100%)	511 (98%)	9 (2%)	0	100	100
1	J	520/521 (100%)	511 (98%)	9 (2%)	0	100	100
1	K	520/521 (100%)	511 (98%)	9 (2%)	0	100	100
1	L	520/521 (100%)	511 (98%)	9 (2%)	0	100	100
1	M	520/521 (100%)	511 (98%)	9 (2%)	0	100	100
1	N	520/521 (100%)	511 (98%)	9 (2%)	0	100	100
1	O	520/521 (100%)	511 (98%)	9 (2%)	0	100	100
1	P	520/521 (100%)	511 (98%)	9 (2%)	0	100	100
1	Q	520/521 (100%)	511 (98%)	9 (2%)	0	100	100
1	R	520/521 (100%)	511 (98%)	9 (2%)	0	100	100
1	S	520/521 (100%)	511 (98%)	9 (2%)	0	100	100
1	T	520/521 (100%)	511 (98%)	9 (2%)	0	100	100
1	U	520/521 (100%)	511 (98%)	9 (2%)	0	100	100
1	V	520/521 (100%)	511 (98%)	9 (2%)	0	100	100
1	W	520/521 (100%)	511 (98%)	9 (2%)	0	100	100
1	X	520/521 (100%)	511 (98%)	9 (2%)	0	100	100

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	Y	520/521 (100%)	511 (98%)	9 (2%)	0	100	100
1	Z	520/521 (100%)	511 (98%)	9 (2%)	0	100	100
1	a	520/521 (100%)	511 (98%)	9 (2%)	0	100	100
1	b	520/521 (100%)	511 (98%)	9 (2%)	0	100	100
1	c	520/521 (100%)	511 (98%)	9 (2%)	0	100	100
1	d	520/521 (100%)	511 (98%)	9 (2%)	0	100	100
1	e	520/521 (100%)	511 (98%)	9 (2%)	0	100	100
1	f	520/521 (100%)	511 (98%)	9 (2%)	0	100	100
1	g	520/521 (100%)	511 (98%)	9 (2%)	0	100	100
1	h	520/521 (100%)	511 (98%)	9 (2%)	0	100	100
1	i	520/521 (100%)	511 (98%)	9 (2%)	0	100	100
1	j	520/521 (100%)	511 (98%)	9 (2%)	0	100	100
1	k	520/521 (100%)	511 (98%)	9 (2%)	0	100	100
1	l	520/521 (100%)	511 (98%)	9 (2%)	0	100	100
1	m	520/521 (100%)	511 (98%)	9 (2%)	0	100	100
1	n	520/521 (100%)	511 (98%)	9 (2%)	0	100	100
1	o	520/521 (100%)	511 (98%)	9 (2%)	0	100	100
1	p	520/521 (100%)	511 (98%)	9 (2%)	0	100	100
1	q	520/521 (100%)	511 (98%)	9 (2%)	0	100	100
1	r	520/521 (100%)	511 (98%)	9 (2%)	0	100	100
1	s	520/521 (100%)	511 (98%)	9 (2%)	0	100	100
1	t	520/521 (100%)	511 (98%)	9 (2%)	0	100	100
1	u	520/521 (100%)	511 (98%)	9 (2%)	0	100	100
1	v	520/521 (100%)	511 (98%)	9 (2%)	0	100	100
1	w	520/521 (100%)	511 (98%)	9 (2%)	0	100	100
1	x	520/521 (100%)	511 (98%)	9 (2%)	0	100	100
1	y	520/521 (100%)	511 (98%)	9 (2%)	0	100	100
1	z	520/521 (100%)	511 (98%)	9 (2%)	0	100	100
All	All	31200/31260 (100%)	30660 (98%)	540 (2%)	0	100	100

There are no Ramachandran outliers to report.

5.3.2 Protein sidechains ⓘ

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

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

Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
1	1	450/449 (100%)	448 (100%)	2 (0%)	84	90
1	2	450/449 (100%)	448 (100%)	2 (0%)	84	90
1	3	450/449 (100%)	448 (100%)	2 (0%)	84	90
1	4	450/449 (100%)	448 (100%)	2 (0%)	84	90
1	5	450/449 (100%)	448 (100%)	2 (0%)	84	90
1	6	450/449 (100%)	448 (100%)	2 (0%)	84	90
1	7	450/449 (100%)	448 (100%)	2 (0%)	84	90
1	8	450/449 (100%)	448 (100%)	2 (0%)	84	90
1	A	450/449 (100%)	448 (100%)	2 (0%)	84	90
1	B	450/449 (100%)	448 (100%)	2 (0%)	84	90
1	C	450/449 (100%)	448 (100%)	2 (0%)	84	90
1	D	450/449 (100%)	448 (100%)	2 (0%)	84	90
1	E	450/449 (100%)	448 (100%)	2 (0%)	84	90
1	F	450/449 (100%)	448 (100%)	2 (0%)	84	90
1	G	450/449 (100%)	448 (100%)	2 (0%)	84	90
1	H	450/449 (100%)	448 (100%)	2 (0%)	84	90
1	I	450/449 (100%)	448 (100%)	2 (0%)	84	90
1	J	450/449 (100%)	448 (100%)	2 (0%)	84	90
1	K	450/449 (100%)	448 (100%)	2 (0%)	84	90
1	L	450/449 (100%)	448 (100%)	2 (0%)	84	90
1	M	450/449 (100%)	448 (100%)	2 (0%)	84	90
1	N	450/449 (100%)	448 (100%)	2 (0%)	84	90
1	O	450/449 (100%)	448 (100%)	2 (0%)	84	90
1	P	450/449 (100%)	448 (100%)	2 (0%)	84	90
1	Q	450/449 (100%)	448 (100%)	2 (0%)	84	90
1	R	450/449 (100%)	448 (100%)	2 (0%)	84	90

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
1	S	450/449 (100%)	448 (100%)	2 (0%)	84	90
1	T	450/449 (100%)	448 (100%)	2 (0%)	84	90
1	U	450/449 (100%)	448 (100%)	2 (0%)	84	90
1	V	450/449 (100%)	448 (100%)	2 (0%)	84	90
1	W	450/449 (100%)	448 (100%)	2 (0%)	84	90
1	X	450/449 (100%)	448 (100%)	2 (0%)	84	90
1	Y	450/449 (100%)	448 (100%)	2 (0%)	84	90
1	Z	450/449 (100%)	448 (100%)	2 (0%)	84	90
1	a	450/449 (100%)	448 (100%)	2 (0%)	84	90
1	b	450/449 (100%)	448 (100%)	2 (0%)	84	90
1	c	450/449 (100%)	448 (100%)	2 (0%)	84	90
1	d	450/449 (100%)	448 (100%)	2 (0%)	84	90
1	e	450/449 (100%)	448 (100%)	2 (0%)	84	90
1	f	450/449 (100%)	448 (100%)	2 (0%)	84	90
1	g	450/449 (100%)	448 (100%)	2 (0%)	84	90
1	h	450/449 (100%)	448 (100%)	2 (0%)	84	90
1	i	450/449 (100%)	448 (100%)	2 (0%)	84	90
1	j	450/449 (100%)	448 (100%)	2 (0%)	84	90
1	k	450/449 (100%)	448 (100%)	2 (0%)	84	90
1	l	450/449 (100%)	448 (100%)	2 (0%)	84	90
1	m	450/449 (100%)	448 (100%)	2 (0%)	84	90
1	n	450/449 (100%)	448 (100%)	2 (0%)	84	90
1	o	450/449 (100%)	448 (100%)	2 (0%)	84	90
1	p	450/449 (100%)	448 (100%)	2 (0%)	84	90
1	q	450/449 (100%)	448 (100%)	2 (0%)	84	90
1	r	450/449 (100%)	448 (100%)	2 (0%)	84	90
1	s	450/449 (100%)	448 (100%)	2 (0%)	84	90
1	t	450/449 (100%)	448 (100%)	2 (0%)	84	90
1	u	450/449 (100%)	448 (100%)	2 (0%)	84	90
1	v	450/449 (100%)	448 (100%)	2 (0%)	84	90
1	w	450/449 (100%)	448 (100%)	2 (0%)	84	90

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
1	x	450/449 (100%)	448 (100%)	2 (0%)	84	90
1	y	450/449 (100%)	448 (100%)	2 (0%)	84	90
1	z	450/449 (100%)	448 (100%)	2 (0%)	84	90
All	All	27000/26940 (100%)	26880 (100%)	120 (0%)	81	90

All (120) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	312	ARG
1	A	567	THR
1	B	312	ARG
1	B	567	THR
1	C	312	ARG
1	C	567	THR
1	D	312	ARG
1	D	567	THR
1	E	312	ARG
1	E	567	THR
1	F	312	ARG
1	F	567	THR
1	G	312	ARG
1	G	567	THR
1	H	312	ARG
1	H	567	THR
1	I	312	ARG
1	I	567	THR
1	J	312	ARG
1	J	567	THR
1	K	312	ARG
1	K	567	THR
1	L	312	ARG
1	L	567	THR
1	M	312	ARG
1	M	567	THR
1	N	312	ARG
1	N	567	THR
1	O	312	ARG
1	O	567	THR
1	P	312	ARG
1	P	567	THR
1	Q	312	ARG

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Mol	Chain	Res	Type
1	Q	567	THR
1	R	312	ARG
1	R	567	THR
1	S	312	ARG
1	S	567	THR
1	T	312	ARG
1	T	567	THR
1	U	312	ARG
1	U	567	THR
1	V	312	ARG
1	V	567	THR
1	W	312	ARG
1	W	567	THR
1	X	312	ARG
1	X	567	THR
1	Y	312	ARG
1	Y	567	THR
1	Z	312	ARG
1	Z	567	THR
1	a	312	ARG
1	a	567	THR
1	b	312	ARG
1	b	567	THR
1	c	312	ARG
1	c	567	THR
1	d	312	ARG
1	d	567	THR
1	e	312	ARG
1	e	567	THR
1	f	312	ARG
1	f	567	THR
1	g	312	ARG
1	g	567	THR
1	h	312	ARG
1	h	567	THR
1	i	312	ARG
1	i	567	THR
1	j	312	ARG
1	j	567	THR
1	k	312	ARG
1	k	567	THR
1	l	312	ARG

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Mol	Chain	Res	Type
1	l	567	THR
1	m	312	ARG
1	m	567	THR
1	n	312	ARG
1	n	567	THR
1	o	312	ARG
1	o	567	THR
1	p	312	ARG
1	p	567	THR
1	q	312	ARG
1	q	567	THR
1	r	312	ARG
1	r	567	THR
1	s	312	ARG
1	s	567	THR
1	t	312	ARG
1	t	567	THR
1	u	312	ARG
1	u	567	THR
1	v	312	ARG
1	v	567	THR
1	w	312	ARG
1	w	567	THR
1	x	312	ARG
1	x	567	THR
1	y	312	ARG
1	y	567	THR
1	z	312	ARG
1	z	567	THR
1	1	312	ARG
1	1	567	THR
1	2	312	ARG
1	2	567	THR
1	3	312	ARG
1	3	567	THR
1	4	312	ARG
1	4	567	THR
1	5	312	ARG
1	5	567	THR
1	6	312	ARG
1	6	567	THR
1	7	312	ARG

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Mol	Chain	Res	Type
1	7	567	THR
1	8	312	ARG
1	8	567	THR

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (928) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	256	ASN
1	A	374	GLN
1	A	387	ASN
1	A	392	ASN
1	A	430	GLN
1	A	479	ASN
1	A	489	GLN
1	A	519	ASN
1	A	630	HIS
1	A	634	HIS
1	A	652	GLN
1	A	679	GLN
1	A	688	GLN
1	A	697	HIS
1	A	740	HIS
1	B	256	ASN
1	B	270	ASN
1	B	374	GLN
1	B	387	ASN
1	B	392	ASN
1	B	430	GLN
1	B	479	ASN
1	B	489	GLN
1	B	519	ASN
1	B	630	HIS
1	B	634	HIS
1	B	652	GLN
1	B	679	GLN
1	B	688	GLN
1	B	740	HIS
1	C	256	ASN
1	C	270	ASN
1	C	374	GLN
1	C	387	ASN
1	C	392	ASN

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Mol	Chain	Res	Type
1	C	430	GLN
1	C	479	ASN
1	C	489	GLN
1	C	519	ASN
1	C	614	GLN
1	C	630	HIS
1	C	634	HIS
1	C	652	GLN
1	C	679	GLN
1	C	688	GLN
1	C	697	HIS
1	C	740	HIS
1	D	256	ASN
1	D	374	GLN
1	D	387	ASN
1	D	392	ASN
1	D	430	GLN
1	D	479	ASN
1	D	489	GLN
1	D	519	ASN
1	D	630	HIS
1	D	634	HIS
1	D	652	GLN
1	D	679	GLN
1	D	688	GLN
1	D	697	HIS
1	D	740	HIS
1	E	256	ASN
1	E	374	GLN
1	E	387	ASN
1	E	392	ASN
1	E	430	GLN
1	E	479	ASN
1	E	489	GLN
1	E	519	ASN
1	E	630	HIS
1	E	634	HIS
1	E	652	GLN
1	E	679	GLN
1	E	688	GLN
1	E	697	HIS
1	E	740	HIS

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Mol	Chain	Res	Type
1	F	256	ASN
1	F	270	ASN
1	F	374	GLN
1	F	387	ASN
1	F	392	ASN
1	F	430	GLN
1	F	479	ASN
1	F	489	GLN
1	F	519	ASN
1	F	630	HIS
1	F	634	HIS
1	F	652	GLN
1	F	679	GLN
1	F	688	GLN
1	F	697	HIS
1	F	740	HIS
1	G	256	ASN
1	G	273	ASN
1	G	374	GLN
1	G	387	ASN
1	G	392	ASN
1	G	430	GLN
1	G	479	ASN
1	G	489	GLN
1	G	519	ASN
1	G	630	HIS
1	G	634	HIS
1	G	652	GLN
1	G	679	GLN
1	G	688	GLN
1	G	697	HIS
1	G	740	HIS
1	H	256	ASN
1	H	374	GLN
1	H	387	ASN
1	H	392	ASN
1	H	430	GLN
1	H	479	ASN
1	H	489	GLN
1	H	519	ASN
1	H	630	HIS
1	H	634	HIS

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Mol	Chain	Res	Type
1	H	652	GLN
1	H	679	GLN
1	H	688	GLN
1	H	697	HIS
1	H	715	ASN
1	H	740	HIS
1	I	256	ASN
1	I	374	GLN
1	I	387	ASN
1	I	392	ASN
1	I	430	GLN
1	I	479	ASN
1	I	489	GLN
1	I	630	HIS
1	I	634	HIS
1	I	652	GLN
1	I	679	GLN
1	I	688	GLN
1	I	697	HIS
1	I	740	HIS
1	J	256	ASN
1	J	270	ASN
1	J	374	GLN
1	J	387	ASN
1	J	392	ASN
1	J	430	GLN
1	J	479	ASN
1	J	489	GLN
1	J	519	ASN
1	J	630	HIS
1	J	634	HIS
1	J	652	GLN
1	J	679	GLN
1	J	688	GLN
1	J	697	HIS
1	J	715	ASN
1	J	740	HIS
1	K	256	ASN
1	K	270	ASN
1	K	374	GLN
1	K	387	ASN
1	K	392	ASN

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Mol	Chain	Res	Type
1	K	479	ASN
1	K	489	GLN
1	K	519	ASN
1	K	630	HIS
1	K	634	HIS
1	K	652	GLN
1	K	679	GLN
1	K	688	GLN
1	K	740	HIS
1	L	256	ASN
1	L	374	GLN
1	L	387	ASN
1	L	392	ASN
1	L	479	ASN
1	L	489	GLN
1	L	519	ASN
1	L	630	HIS
1	L	634	HIS
1	L	652	GLN
1	L	679	GLN
1	L	688	GLN
1	L	697	HIS
1	L	740	HIS
1	M	256	ASN
1	M	374	GLN
1	M	387	ASN
1	M	392	ASN
1	M	430	GLN
1	M	479	ASN
1	M	489	GLN
1	M	519	ASN
1	M	630	HIS
1	M	634	HIS
1	M	652	GLN
1	M	679	GLN
1	M	688	GLN
1	M	697	HIS
1	M	715	ASN
1	M	740	HIS
1	N	256	ASN
1	N	374	GLN
1	N	387	ASN

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Mol	Chain	Res	Type
1	N	392	ASN
1	N	430	GLN
1	N	479	ASN
1	N	489	GLN
1	N	519	ASN
1	N	630	HIS
1	N	634	HIS
1	N	652	GLN
1	N	679	GLN
1	N	688	GLN
1	N	697	HIS
1	N	740	HIS
1	O	256	ASN
1	O	270	ASN
1	O	374	GLN
1	O	387	ASN
1	O	392	ASN
1	O	430	GLN
1	O	479	ASN
1	O	489	GLN
1	O	519	ASN
1	O	630	HIS
1	O	634	HIS
1	O	652	GLN
1	O	679	GLN
1	O	688	GLN
1	O	697	HIS
1	O	740	HIS
1	P	256	ASN
1	P	270	ASN
1	P	374	GLN
1	P	387	ASN
1	P	392	ASN
1	P	430	GLN
1	P	479	ASN
1	P	489	GLN
1	P	519	ASN
1	P	630	HIS
1	P	634	HIS
1	P	652	GLN
1	P	679	GLN
1	P	688	GLN

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Mol	Chain	Res	Type
1	P	697	HIS
1	P	740	HIS
1	Q	256	ASN
1	Q	270	ASN
1	Q	374	GLN
1	Q	387	ASN
1	Q	392	ASN
1	Q	430	GLN
1	Q	479	ASN
1	Q	489	GLN
1	Q	519	ASN
1	Q	630	HIS
1	Q	634	HIS
1	Q	652	GLN
1	Q	679	GLN
1	Q	688	GLN
1	Q	740	HIS
1	R	256	ASN
1	R	374	GLN
1	R	387	ASN
1	R	392	ASN
1	R	430	GLN
1	R	479	ASN
1	R	489	GLN
1	R	519	ASN
1	R	630	HIS
1	R	634	HIS
1	R	652	GLN
1	R	679	GLN
1	R	688	GLN
1	R	697	HIS
1	R	740	HIS
1	S	256	ASN
1	S	270	ASN
1	S	374	GLN
1	S	387	ASN
1	S	392	ASN
1	S	430	GLN
1	S	479	ASN
1	S	489	GLN
1	S	519	ASN
1	S	630	HIS

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Mol	Chain	Res	Type
1	S	634	HIS
1	S	652	GLN
1	S	679	GLN
1	S	688	GLN
1	S	697	HIS
1	S	740	HIS
1	T	256	ASN
1	T	374	GLN
1	T	387	ASN
1	T	392	ASN
1	T	430	GLN
1	T	479	ASN
1	T	489	GLN
1	T	519	ASN
1	T	630	HIS
1	T	634	HIS
1	T	652	GLN
1	T	679	GLN
1	T	688	GLN
1	T	697	HIS
1	T	740	HIS
1	U	256	ASN
1	U	270	ASN
1	U	374	GLN
1	U	387	ASN
1	U	392	ASN
1	U	430	GLN
1	U	479	ASN
1	U	489	GLN
1	U	519	ASN
1	U	630	HIS
1	U	634	HIS
1	U	652	GLN
1	U	679	GLN
1	U	688	GLN
1	U	697	HIS
1	U	740	HIS
1	V	256	ASN
1	V	270	ASN
1	V	374	GLN
1	V	387	ASN
1	V	392	ASN

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Mol	Chain	Res	Type
1	V	430	GLN
1	V	479	ASN
1	V	489	GLN
1	V	519	ASN
1	V	630	HIS
1	V	634	HIS
1	V	652	GLN
1	V	679	GLN
1	V	688	GLN
1	V	697	HIS
1	V	740	HIS
1	W	256	ASN
1	W	270	ASN
1	W	374	GLN
1	W	385	ASN
1	W	392	ASN
1	W	430	GLN
1	W	479	ASN
1	W	489	GLN
1	W	519	ASN
1	W	630	HIS
1	W	634	HIS
1	W	652	GLN
1	W	679	GLN
1	W	688	GLN
1	W	697	HIS
1	W	740	HIS
1	X	256	ASN
1	X	374	GLN
1	X	387	ASN
1	X	392	ASN
1	X	430	GLN
1	X	479	ASN
1	X	489	GLN
1	X	519	ASN
1	X	630	HIS
1	X	634	HIS
1	X	652	GLN
1	X	679	GLN
1	X	688	GLN
1	X	697	HIS
1	X	740	HIS

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Mol	Chain	Res	Type
1	Y	256	ASN
1	Y	270	ASN
1	Y	374	GLN
1	Y	387	ASN
1	Y	392	ASN
1	Y	430	GLN
1	Y	479	ASN
1	Y	489	GLN
1	Y	519	ASN
1	Y	630	HIS
1	Y	634	HIS
1	Y	652	GLN
1	Y	679	GLN
1	Y	688	GLN
1	Y	697	HIS
1	Y	715	ASN
1	Y	740	HIS
1	Z	256	ASN
1	Z	270	ASN
1	Z	374	GLN
1	Z	387	ASN
1	Z	392	ASN
1	Z	430	GLN
1	Z	479	ASN
1	Z	489	GLN
1	Z	519	ASN
1	Z	630	HIS
1	Z	634	HIS
1	Z	652	GLN
1	Z	679	GLN
1	Z	688	GLN
1	Z	740	HIS
1	a	256	ASN
1	a	374	GLN
1	a	387	ASN
1	a	392	ASN
1	a	430	GLN
1	a	479	ASN
1	a	489	GLN
1	a	519	ASN
1	a	630	HIS
1	a	634	HIS

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Mol	Chain	Res	Type
1	a	652	GLN
1	a	679	GLN
1	a	688	GLN
1	a	697	HIS
1	a	740	HIS
1	b	256	ASN
1	b	374	GLN
1	b	387	ASN
1	b	392	ASN
1	b	430	GLN
1	b	479	ASN
1	b	489	GLN
1	b	519	ASN
1	b	630	HIS
1	b	634	HIS
1	b	652	GLN
1	b	657	ASN
1	b	679	GLN
1	b	688	GLN
1	b	697	HIS
1	b	740	HIS
1	c	256	ASN
1	c	270	ASN
1	c	374	GLN
1	c	385	ASN
1	c	392	ASN
1	c	430	GLN
1	c	479	ASN
1	c	489	GLN
1	c	630	HIS
1	c	634	HIS
1	c	652	GLN
1	c	679	GLN
1	c	688	GLN
1	c	697	HIS
1	c	740	HIS
1	d	256	ASN
1	d	374	GLN
1	d	387	ASN
1	d	392	ASN
1	d	430	GLN
1	d	479	ASN

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Mol	Chain	Res	Type
1	d	489	GLN
1	d	519	ASN
1	d	630	HIS
1	d	634	HIS
1	d	652	GLN
1	d	679	GLN
1	d	688	GLN
1	d	697	HIS
1	d	740	HIS
1	e	256	ASN
1	e	270	ASN
1	e	374	GLN
1	e	385	ASN
1	e	392	ASN
1	e	430	GLN
1	e	479	ASN
1	e	489	GLN
1	e	519	ASN
1	e	630	HIS
1	e	634	HIS
1	e	652	GLN
1	e	679	GLN
1	e	688	GLN
1	e	697	HIS
1	e	740	HIS
1	f	256	ASN
1	f	374	GLN
1	f	387	ASN
1	f	392	ASN
1	f	430	GLN
1	f	479	ASN
1	f	489	GLN
1	f	519	ASN
1	f	630	HIS
1	f	634	HIS
1	f	652	GLN
1	f	679	GLN
1	f	688	GLN
1	f	697	HIS
1	f	740	HIS
1	g	256	ASN
1	g	270	ASN

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Mol	Chain	Res	Type
1	g	374	GLN
1	g	387	ASN
1	g	392	ASN
1	g	430	GLN
1	g	479	ASN
1	g	489	GLN
1	g	519	ASN
1	g	614	GLN
1	g	630	HIS
1	g	634	HIS
1	g	652	GLN
1	g	679	GLN
1	g	688	GLN
1	g	697	HIS
1	g	740	HIS
1	h	256	ASN
1	h	374	GLN
1	h	385	ASN
1	h	392	ASN
1	h	430	GLN
1	h	479	ASN
1	h	489	GLN
1	h	519	ASN
1	h	630	HIS
1	h	634	HIS
1	h	652	GLN
1	h	679	GLN
1	h	688	GLN
1	h	697	HIS
1	h	715	ASN
1	h	740	HIS
1	i	256	ASN
1	i	374	GLN
1	i	387	ASN
1	i	392	ASN
1	i	430	GLN
1	i	479	ASN
1	i	489	GLN
1	i	519	ASN
1	i	630	HIS
1	i	634	HIS
1	i	652	GLN

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Mol	Chain	Res	Type
1	i	679	GLN
1	i	688	GLN
1	i	697	HIS
1	i	740	HIS
1	j	256	ASN
1	j	270	ASN
1	j	374	GLN
1	j	387	ASN
1	j	392	ASN
1	j	430	GLN
1	j	479	ASN
1	j	489	GLN
1	j	519	ASN
1	j	630	HIS
1	j	634	HIS
1	j	652	GLN
1	j	679	GLN
1	j	688	GLN
1	j	697	HIS
1	j	740	HIS
1	k	256	ASN
1	k	270	ASN
1	k	374	GLN
1	k	387	ASN
1	k	392	ASN
1	k	430	GLN
1	k	479	ASN
1	k	489	GLN
1	k	519	ASN
1	k	630	HIS
1	k	634	HIS
1	k	652	GLN
1	k	679	GLN
1	k	688	GLN
1	k	697	HIS
1	k	740	HIS
1	l	256	ASN
1	l	270	ASN
1	l	374	GLN
1	l	387	ASN
1	l	392	ASN
1	l	430	GLN

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Mol	Chain	Res	Type
1	l	479	ASN
1	l	489	GLN
1	l	519	ASN
1	l	630	HIS
1	l	634	HIS
1	l	652	GLN
1	l	679	GLN
1	l	688	GLN
1	l	697	HIS
1	l	740	HIS
1	m	256	ASN
1	m	374	GLN
1	m	387	ASN
1	m	392	ASN
1	m	430	GLN
1	m	479	ASN
1	m	489	GLN
1	m	519	ASN
1	m	630	HIS
1	m	634	HIS
1	m	652	GLN
1	m	679	GLN
1	m	688	GLN
1	m	740	HIS
1	n	256	ASN
1	n	270	ASN
1	n	374	GLN
1	n	387	ASN
1	n	392	ASN
1	n	430	GLN
1	n	479	ASN
1	n	489	GLN
1	n	519	ASN
1	n	630	HIS
1	n	634	HIS
1	n	652	GLN
1	n	679	GLN
1	n	688	GLN
1	n	697	HIS
1	n	740	HIS
1	o	270	ASN
1	o	387	ASN

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Mol	Chain	Res	Type
1	o	392	ASN
1	o	430	GLN
1	o	479	ASN
1	o	489	GLN
1	o	519	ASN
1	o	630	HIS
1	o	634	HIS
1	o	652	GLN
1	o	679	GLN
1	o	688	GLN
1	o	697	HIS
1	o	740	HIS
1	p	256	ASN
1	p	270	ASN
1	p	374	GLN
1	p	387	ASN
1	p	392	ASN
1	p	430	GLN
1	p	479	ASN
1	p	489	GLN
1	p	519	ASN
1	p	630	HIS
1	p	634	HIS
1	p	652	GLN
1	p	679	GLN
1	p	688	GLN
1	p	697	HIS
1	p	740	HIS
1	q	256	ASN
1	q	374	GLN
1	q	387	ASN
1	q	392	ASN
1	q	430	GLN
1	q	479	ASN
1	q	489	GLN
1	q	519	ASN
1	q	630	HIS
1	q	634	HIS
1	q	652	GLN
1	q	679	GLN
1	q	688	GLN
1	q	697	HIS

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Mol	Chain	Res	Type
1	q	740	HIS
1	r	270	ASN
1	r	374	GLN
1	r	387	ASN
1	r	392	ASN
1	r	430	GLN
1	r	479	ASN
1	r	489	GLN
1	r	519	ASN
1	r	630	HIS
1	r	634	HIS
1	r	652	GLN
1	r	679	GLN
1	r	688	GLN
1	r	697	HIS
1	r	740	HIS
1	s	256	ASN
1	s	270	ASN
1	s	374	GLN
1	s	387	ASN
1	s	392	ASN
1	s	430	GLN
1	s	479	ASN
1	s	489	GLN
1	s	519	ASN
1	s	630	HIS
1	s	634	HIS
1	s	652	GLN
1	s	679	GLN
1	s	688	GLN
1	s	697	HIS
1	s	740	HIS
1	t	256	ASN
1	t	270	ASN
1	t	374	GLN
1	t	387	ASN
1	t	392	ASN
1	t	430	GLN
1	t	479	ASN
1	t	489	GLN
1	t	519	ASN
1	t	630	HIS

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Mol	Chain	Res	Type
1	t	634	HIS
1	t	652	GLN
1	t	679	GLN
1	t	688	GLN
1	t	697	HIS
1	t	740	HIS
1	u	256	ASN
1	u	374	GLN
1	u	387	ASN
1	u	392	ASN
1	u	430	GLN
1	u	479	ASN
1	u	489	GLN
1	u	630	HIS
1	u	634	HIS
1	u	652	GLN
1	u	679	GLN
1	u	688	GLN
1	u	697	HIS
1	u	740	HIS
1	v	256	ASN
1	v	374	GLN
1	v	387	ASN
1	v	392	ASN
1	v	430	GLN
1	v	479	ASN
1	v	489	GLN
1	v	519	ASN
1	v	630	HIS
1	v	634	HIS
1	v	652	GLN
1	v	679	GLN
1	v	688	GLN
1	v	697	HIS
1	v	740	HIS
1	w	256	ASN
1	w	374	GLN
1	w	387	ASN
1	w	392	ASN
1	w	430	GLN
1	w	479	ASN
1	w	489	GLN

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Mol	Chain	Res	Type
1	w	519	ASN
1	w	630	HIS
1	w	634	HIS
1	w	652	GLN
1	w	679	GLN
1	w	688	GLN
1	w	697	HIS
1	w	740	HIS
1	x	256	ASN
1	x	270	ASN
1	x	374	GLN
1	x	387	ASN
1	x	392	ASN
1	x	430	GLN
1	x	479	ASN
1	x	489	GLN
1	x	519	ASN
1	x	630	HIS
1	x	634	HIS
1	x	652	GLN
1	x	679	GLN
1	x	688	GLN
1	x	697	HIS
1	x	740	HIS
1	y	256	ASN
1	y	270	ASN
1	y	374	GLN
1	y	387	ASN
1	y	392	ASN
1	y	430	GLN
1	y	479	ASN
1	y	489	GLN
1	y	519	ASN
1	y	630	HIS
1	y	634	HIS
1	y	652	GLN
1	y	679	GLN
1	y	688	GLN
1	y	697	HIS
1	y	740	HIS
1	z	256	ASN
1	z	374	GLN

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Mol	Chain	Res	Type
1	z	387	ASN
1	z	392	ASN
1	z	479	ASN
1	z	489	GLN
1	z	519	ASN
1	z	630	HIS
1	z	634	HIS
1	z	652	GLN
1	z	679	GLN
1	z	688	GLN
1	z	697	HIS
1	z	740	HIS
1	1	256	ASN
1	1	270	ASN
1	1	374	GLN
1	1	387	ASN
1	1	392	ASN
1	1	430	GLN
1	1	479	ASN
1	1	489	GLN
1	1	630	HIS
1	1	634	HIS
1	1	652	GLN
1	1	679	GLN
1	1	688	GLN
1	1	740	HIS
1	2	256	ASN
1	2	270	ASN
1	2	374	GLN
1	2	387	ASN
1	2	392	ASN
1	2	430	GLN
1	2	479	ASN
1	2	489	GLN
1	2	519	ASN
1	2	630	HIS
1	2	634	HIS
1	2	652	GLN
1	2	679	GLN
1	2	688	GLN
1	2	697	HIS
1	2	715	ASN

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Mol	Chain	Res	Type
1	2	740	HIS
1	3	256	ASN
1	3	374	GLN
1	3	387	ASN
1	3	392	ASN
1	3	430	GLN
1	3	479	ASN
1	3	489	GLN
1	3	519	ASN
1	3	630	HIS
1	3	634	HIS
1	3	652	GLN
1	3	679	GLN
1	3	688	GLN
1	3	697	HIS
1	3	740	HIS
1	4	256	ASN
1	4	270	ASN
1	4	374	GLN
1	4	385	ASN
1	4	392	ASN
1	4	430	GLN
1	4	479	ASN
1	4	489	GLN
1	4	519	ASN
1	4	630	HIS
1	4	634	HIS
1	4	652	GLN
1	4	679	GLN
1	4	688	GLN
1	4	697	HIS
1	4	740	HIS
1	5	256	ASN
1	5	374	GLN
1	5	387	ASN
1	5	392	ASN
1	5	430	GLN
1	5	479	ASN
1	5	489	GLN
1	5	519	ASN
1	5	630	HIS
1	5	634	HIS

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Mol	Chain	Res	Type
1	5	652	GLN
1	5	679	GLN
1	5	688	GLN
1	5	697	HIS
1	5	715	ASN
1	5	740	HIS
1	6	256	ASN
1	6	270	ASN
1	6	374	GLN
1	6	387	ASN
1	6	392	ASN
1	6	430	GLN
1	6	479	ASN
1	6	489	GLN
1	6	519	ASN
1	6	630	HIS
1	6	634	HIS
1	6	652	GLN
1	6	679	GLN
1	6	688	GLN
1	6	697	HIS
1	6	740	HIS
1	7	256	ASN
1	7	270	ASN
1	7	374	GLN
1	7	387	ASN
1	7	392	ASN
1	7	430	GLN
1	7	479	ASN
1	7	489	GLN
1	7	519	ASN
1	7	630	HIS
1	7	634	HIS
1	7	652	GLN
1	7	679	GLN
1	7	688	GLN
1	7	697	HIS
1	7	740	HIS
1	8	256	ASN
1	8	270	ASN
1	8	374	GLN
1	8	387	ASN

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Mol	Chain	Res	Type
1	8	392	ASN
1	8	430	GLN
1	8	479	ASN
1	8	489	GLN
1	8	519	ASN
1	8	630	HIS
1	8	634	HIS
1	8	652	GLN
1	8	679	GLN
1	8	688	GLN
1	8	740	HIS

5.3.3 RNA [i](#)

There are no RNA molecules in this entry.

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

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

5.5 Carbohydrates [i](#)

There are no oligosaccharides in this entry.

5.6 Ligand geometry [i](#)

There are no ligands in this entry.

5.7 Other polymers [i](#)

There are no such residues in this entry.

5.8 Polymer linkage issues [i](#)

There are no chain breaks in this entry.

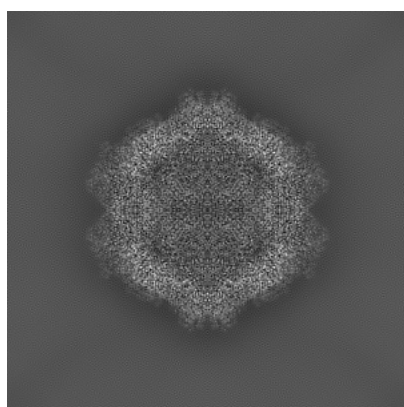
6 Map visualisation [i](#)

This section contains visualisations of the EMDB entry EMD-23201. These allow visual inspection of the internal detail of the map and identification of artifacts.

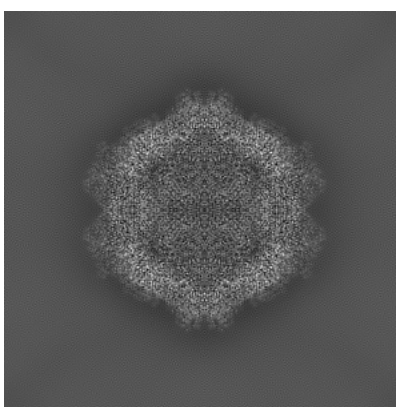
No raw map or half-maps were deposited for this entry and therefore no images, graphs, etc. pertaining to the raw map can be shown.

6.1 Orthogonal projections [i](#)

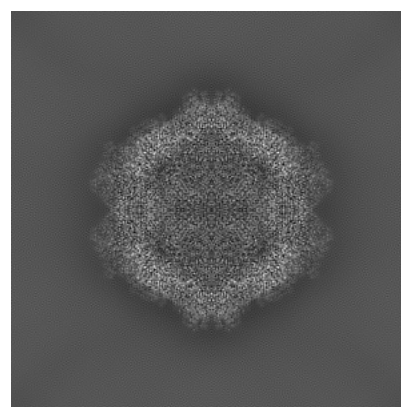
6.1.1 Primary map



X



Y

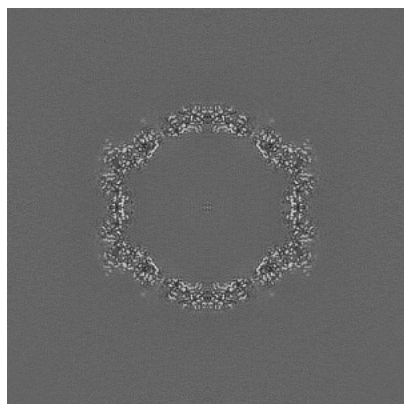


Z

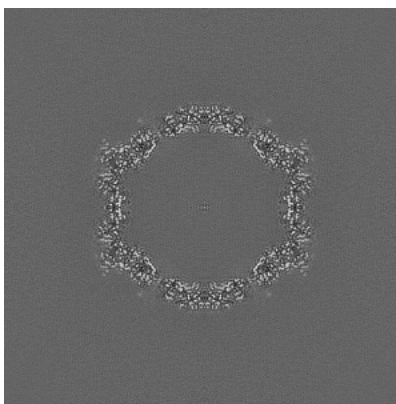
The images above show the map projected in three orthogonal directions.

6.2 Central slices [i](#)

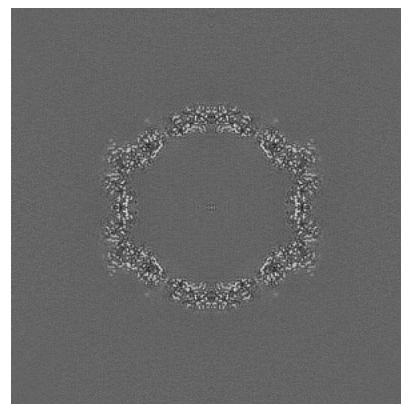
6.2.1 Primary map



X Index: 210



Y Index: 210

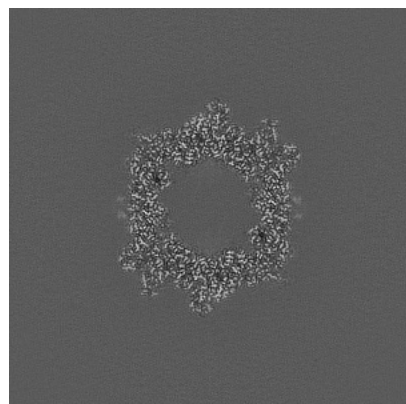


Z Index: 210

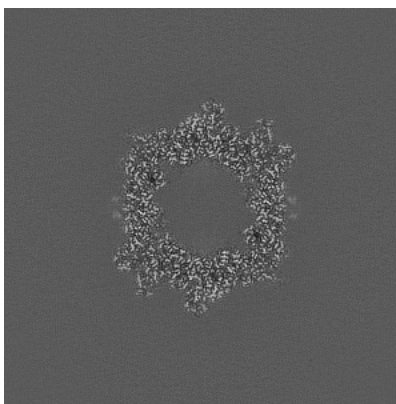
The images above show central slices of the map in three orthogonal directions.

6.3 Largest variance slices [i](#)

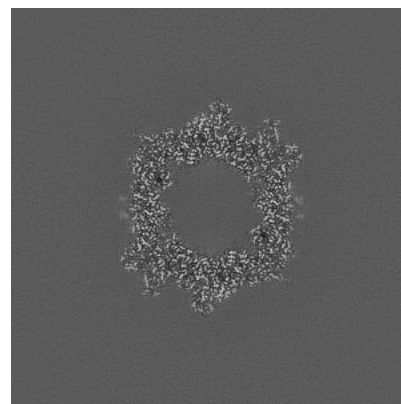
6.3.1 Primary map



X Index: 272



Y Index: 272

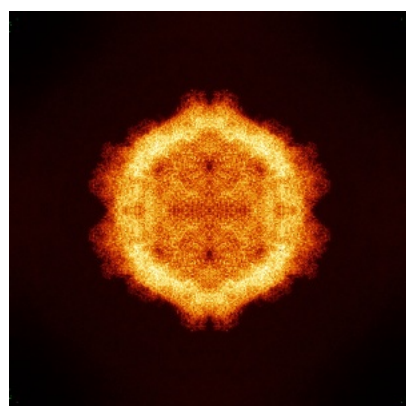


Z Index: 272

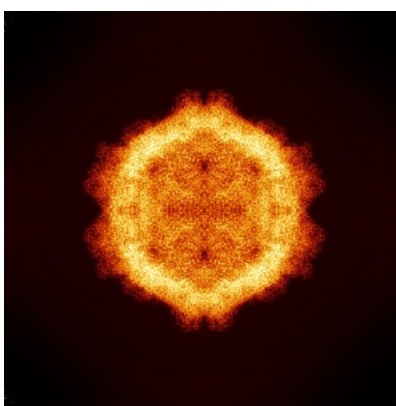
The images above show the largest variance slices of the map in three orthogonal directions.

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

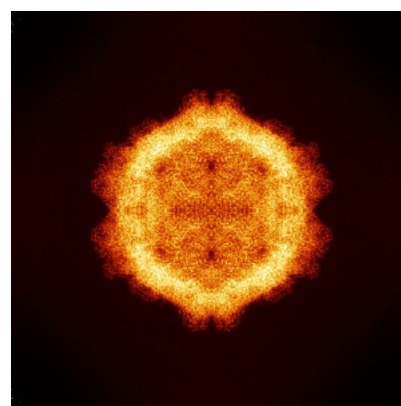
6.4.1 Primary map



X



Y

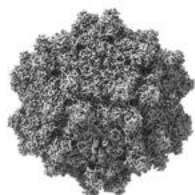


Z

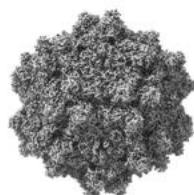
The images above show the map standard deviation projections with false color in three orthogonal directions. Minimum values are shown in green, max in blue, and dark to light orange shades represent small to large values respectively.

6.5 Orthogonal surface views [i](#)

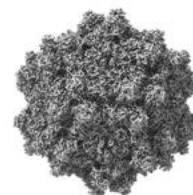
6.5.1 Primary map



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.

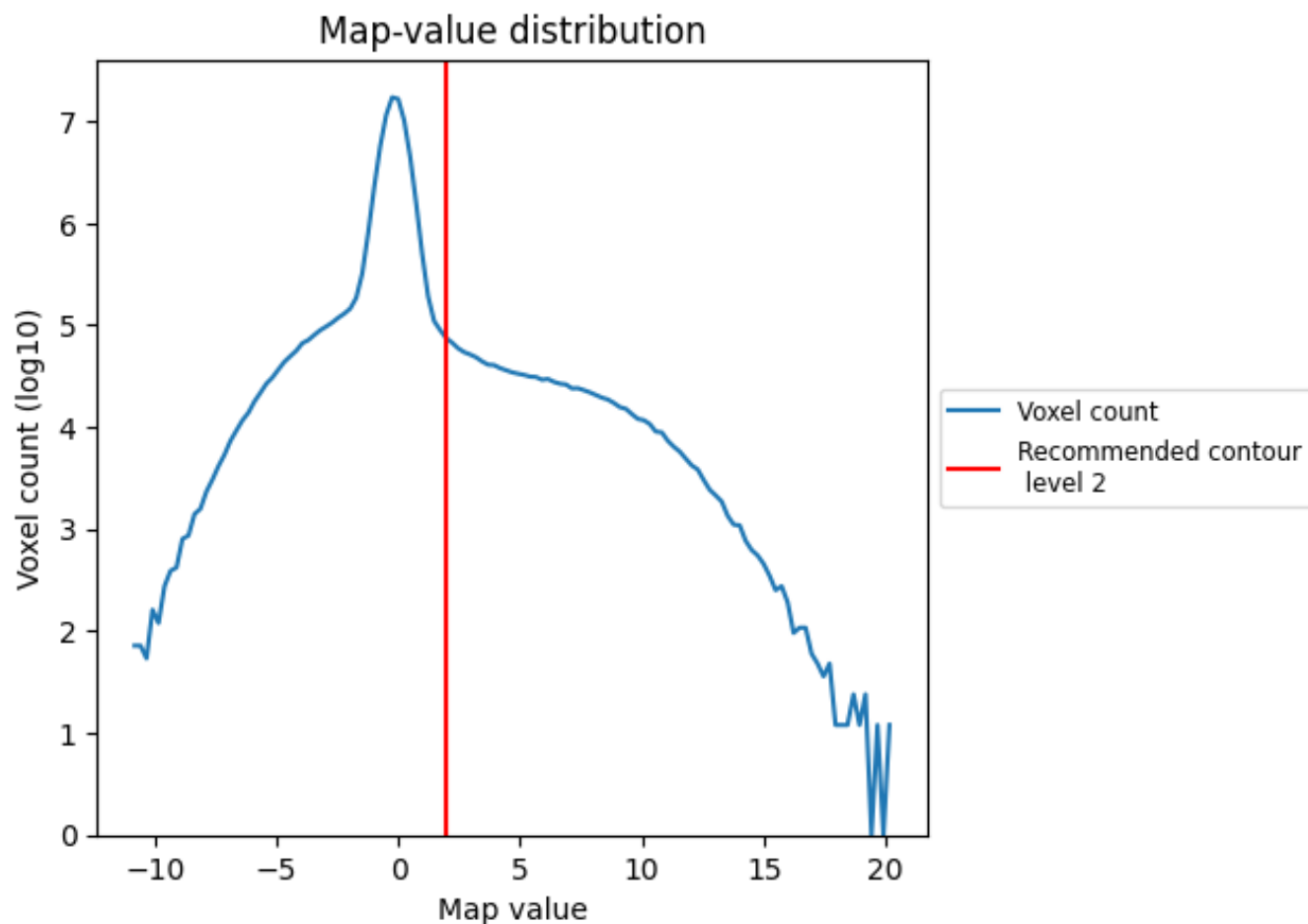
6.6 Mask visualisation [i](#)

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

7 Map analysis [i](#)

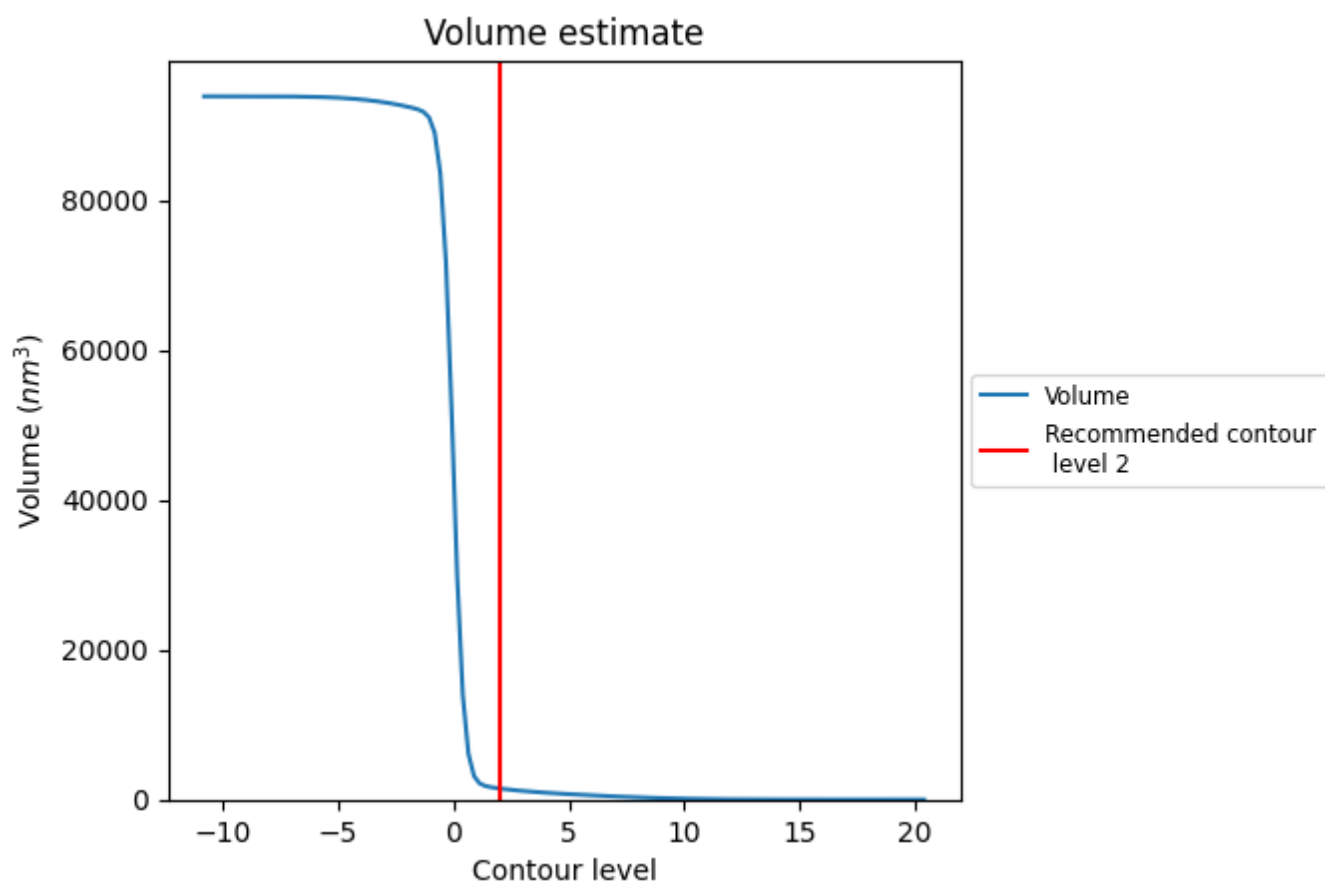
This section contains the results of statistical analysis of the map.

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.

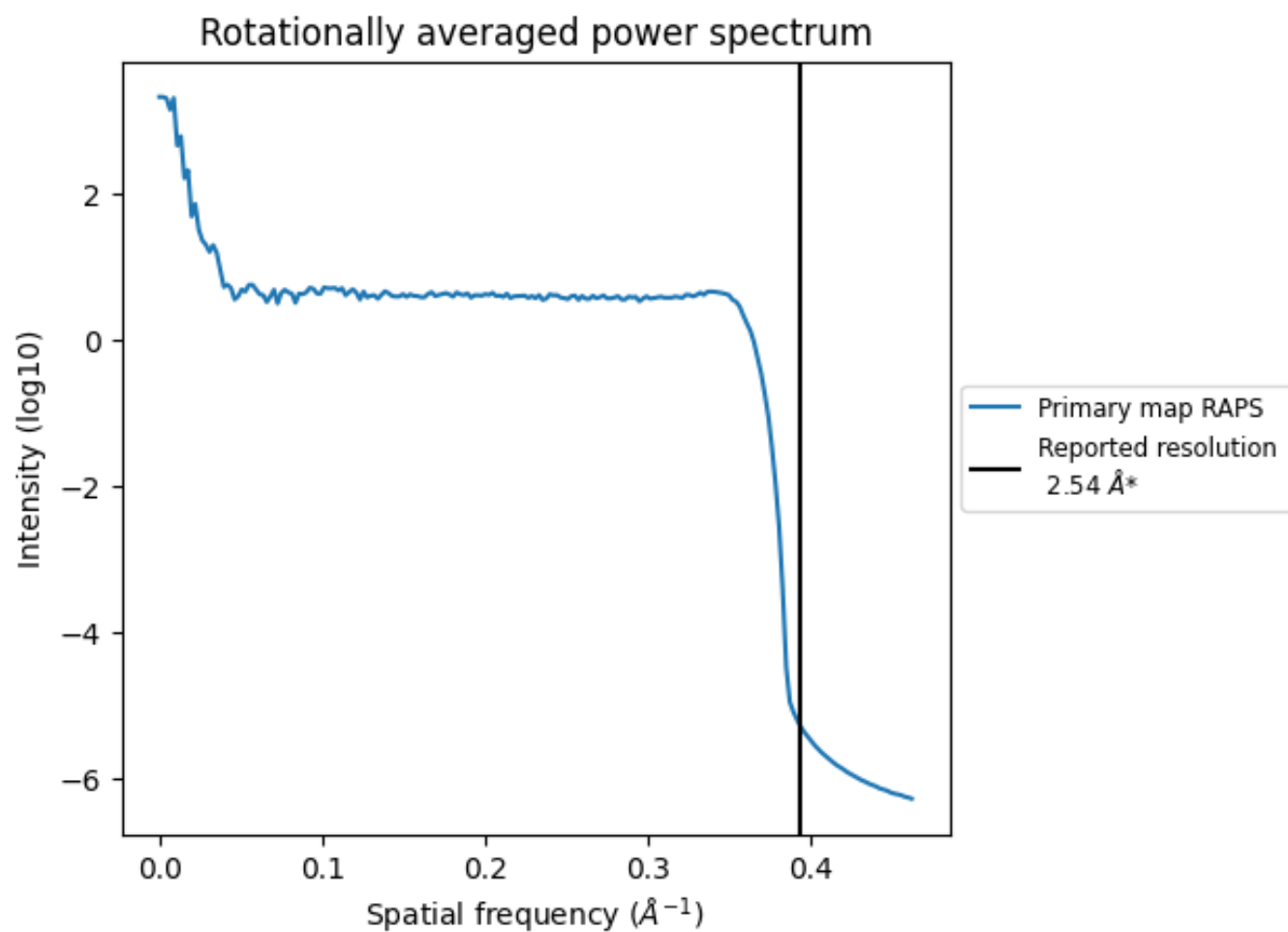
7.2 Volume estimate [i](#)



The volume at the recommended contour level is 1476 nm^3 ; this corresponds to an approximate mass of 1333 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 0.394 Å⁻¹

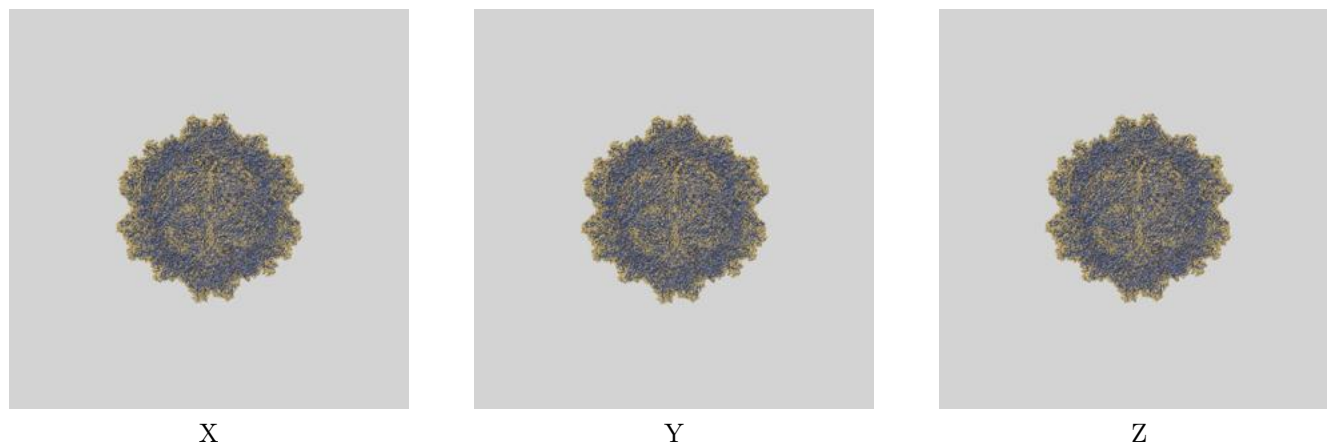
8 Fourier-Shell correlation ⓘ

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

9 Map-model fit [i](#)

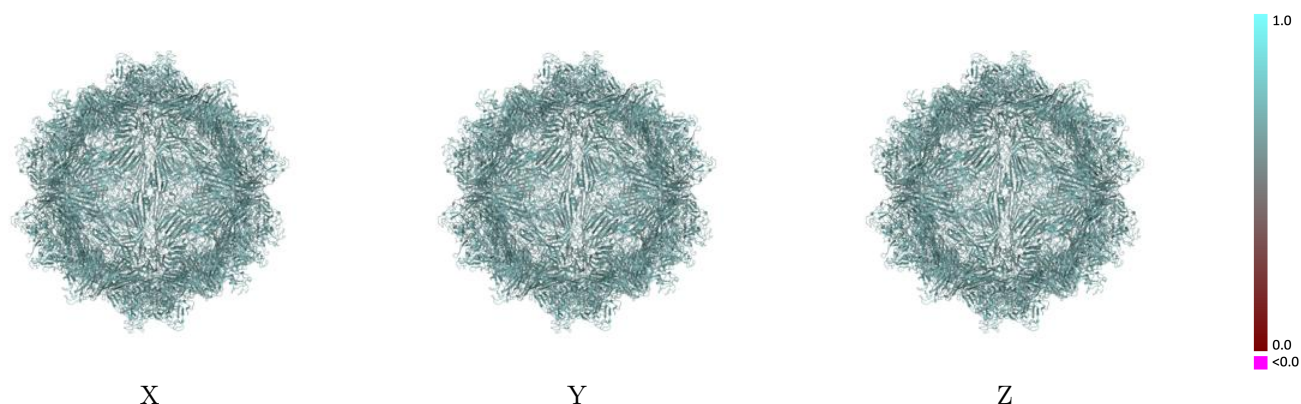
This section contains information regarding the fit between EMDB map EMD-23201 and PDB model 7L6B. Per-residue inclusion information can be found in [section 3](#) on [page 10](#).

9.1 Map-model overlay [i](#)



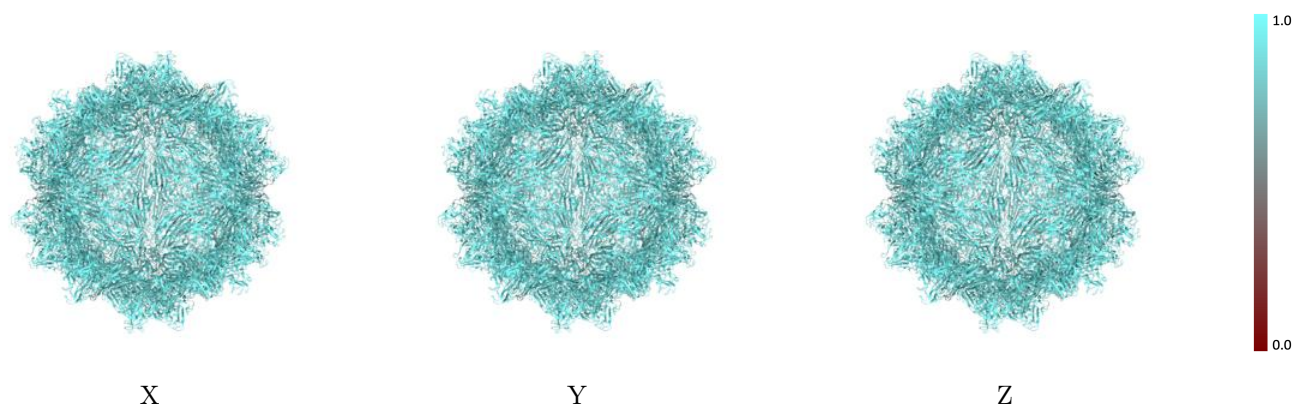
The images above show the 3D surface view of the map at the recommended contour level 2.0 at 50% transparency in yellow overlaid with a ribbon representation of the model coloured in blue. These images allow for the visual assessment of the quality of fit between the atomic model and the map.

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



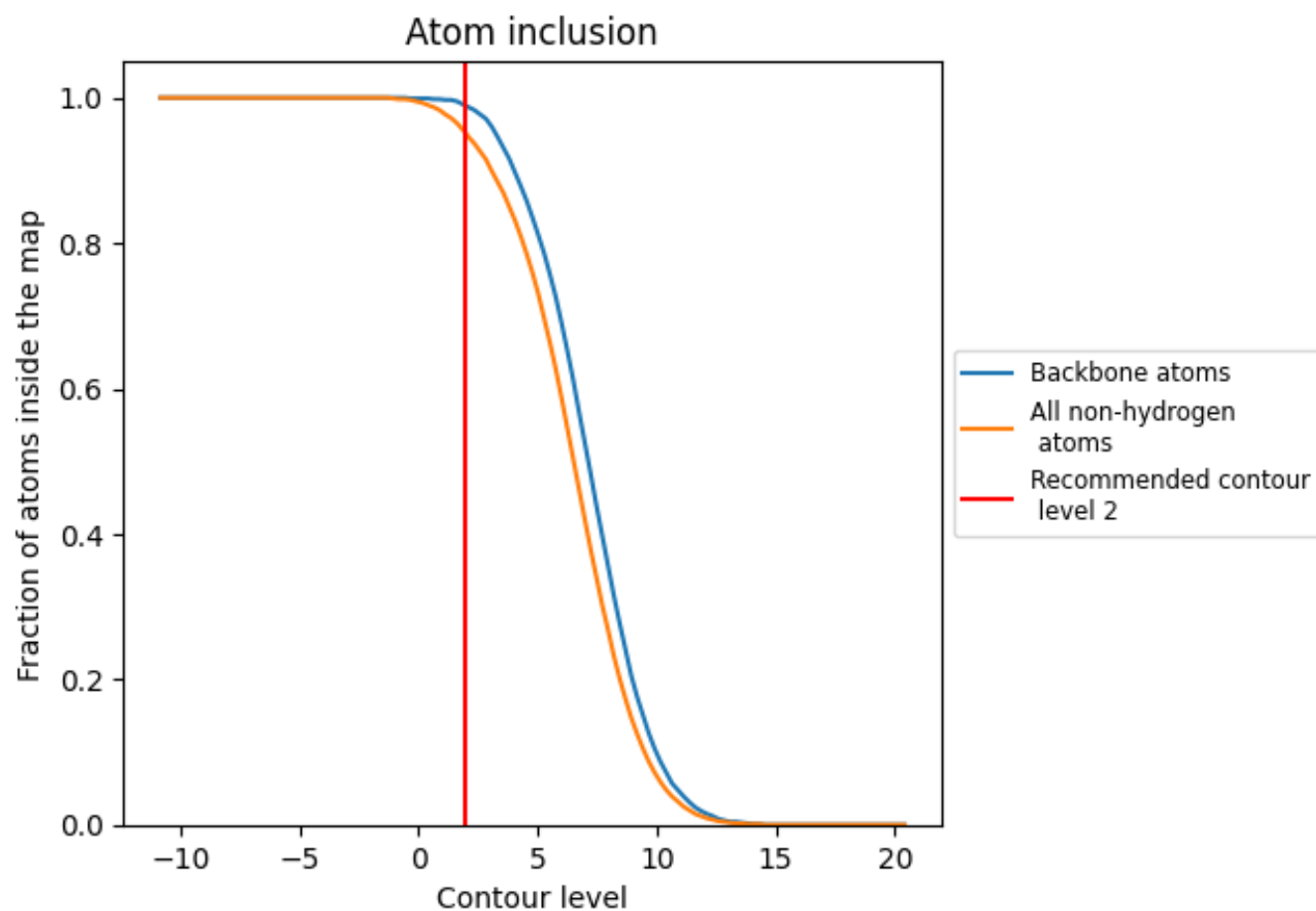
The images above show the model with each residue coloured according to its Q-score. This shows their resolvability in the map with higher Q-score values reflecting better resolvability. Please note: Q-score is calculating the resolvability of atoms, and thus high values are only expected at resolutions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

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



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

9.4 Atom inclusion [i](#)



At the recommended contour level, 99% of all backbone atoms, 95% 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	 0.9510	 0.6610
1	 0.9510	 0.6610
2	 0.9510	 0.6610
3	 0.9500	 0.6620
4	 0.9500	 0.6620
5	 0.9520	 0.6600
6	 0.9520	 0.6600
7	 0.9520	 0.6600
8	 0.9510	 0.6620
A	 0.9500	 0.6620
B	 0.9510	 0.6600
C	 0.9500	 0.6620
D	 0.9520	 0.6600
E	 0.9510	 0.6610
F	 0.9500	 0.6620
G	 0.9510	 0.6610
H	 0.9520	 0.6610
I	 0.9500	 0.6610
J	 0.9510	 0.6610
K	 0.9500	 0.6620
L	 0.9510	 0.6600
M	 0.9510	 0.6620
N	 0.9520	 0.6600
O	 0.9510	 0.6620
P	 0.9520	 0.6600
Q	 0.9500	 0.6620
R	 0.9510	 0.6610
S	 0.9510	 0.6610
T	 0.9500	 0.6630
U	 0.9510	 0.6610
V	 0.9500	 0.6620
W	 0.9520	 0.6600
X	 0.9510	 0.6610
Y	 0.9520	 0.6600
Z	 0.9510	 0.6620



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Chain	Atom inclusion	Q-score
a	 0.9500	 0.6620
b	 0.9500	 0.6630
c	 0.9500	 0.6620
d	 0.9500	 0.6620
e	 0.9500	 0.6620
f	 0.9500	 0.6620
g	 0.9500	 0.6610
h	 0.9510	 0.6620
i	 0.9520	 0.6600
j	 0.9520	 0.6600
k	 0.9520	 0.6610
l	 0.9510	 0.6620
m	 0.9500	 0.6620
n	 0.9500	 0.6620
o	 0.9510	 0.6610
p	 0.9500	 0.6620
q	 0.9510	 0.6600
r	 0.9510	 0.6610
s	 0.9510	 0.6610
t	 0.9510	 0.6610
u	 0.9500	 0.6620
v	 0.9500	 0.6610
w	 0.9510	 0.6610
x	 0.9500	 0.6620
y	 0.9500	 0.6620
z	 0.9520	 0.6600