



Full wwPDB EM Validation Report ⓘ

May 18, 2025 – 07:34 PM EDT

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.dev118
MolProbity : 4-5-2 with Phenix2.0rc1
Percentile statistics : 20231227.v01 (using entries in the PDB archive December 27th 2023)
MapQ : 1.9.13
Ideal geometry (proteins) : Engh & Huber (2001)
Ideal geometry (DNA, RNA) : Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP) : 2.43.1

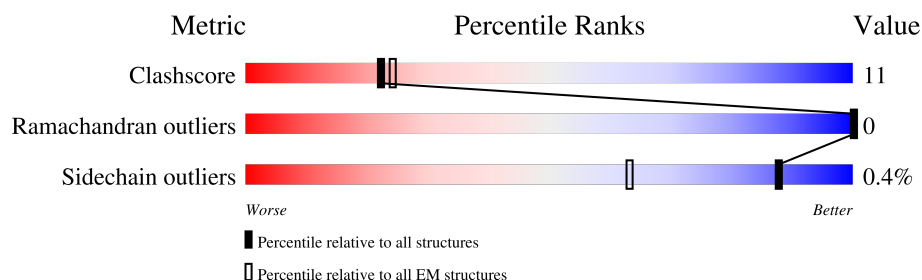
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

ELECTRON MICROSCOPY

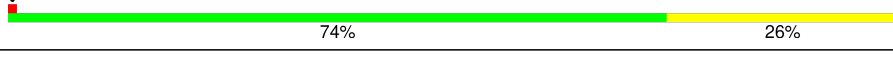
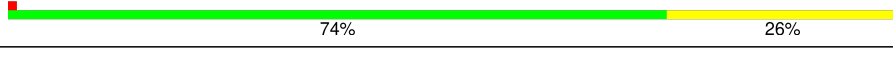
The reported resolution of this entry is 2.54 Å.

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.



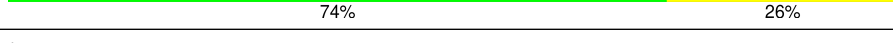
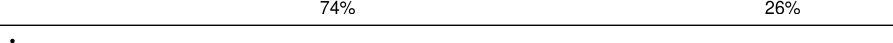
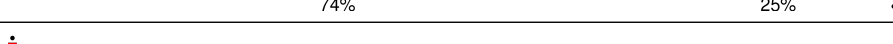
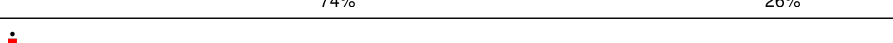
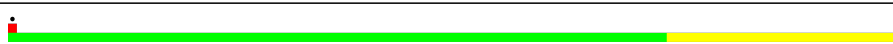
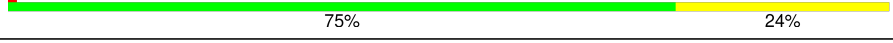
Metric	Whole archive (#Entries)	EM structures (#Entries)
Clashscore	210492	15764
Ramachandran outliers	207382	16835
Sidechain outliers	206894	16415

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	
1	5	521	
1	6	521	
1	7	521	
1	8	521	

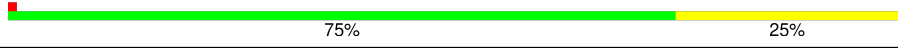
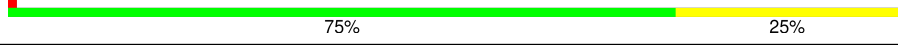
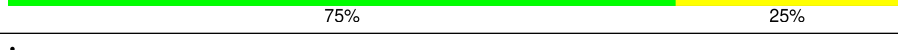
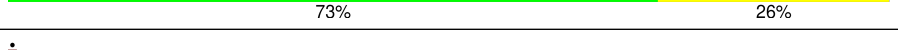
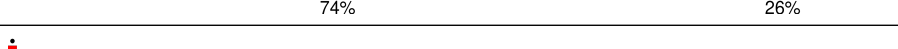
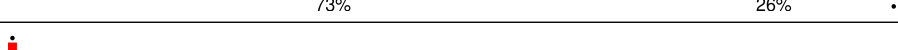
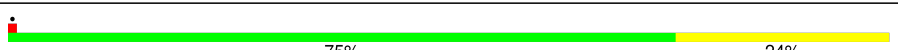
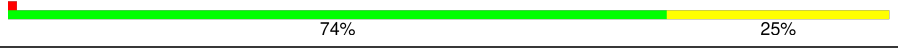
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Mol	Chain	Length	Quality of chain
1	A	521	 74%25%
1	B	521	 74%25%
1	C	521	 74%26%
1	D	521	 74%25%
1	E	521	 74%25%
1	F	521	 75%25%
1	G	521	 74%26%
1	H	521	 74%26%
1	I	521	 74%26%
1	J	521	 74%25%
1	K	521	 74%26%
1	L	521	 74%25%
1	M	521	 74%26%
1	N	521	 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%
1	V	521	 74%26%
1	W	521	 75%24%
1	X	521	 75%24%
1	Y	521	 74%26%

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Mol	Chain	Length	Quality of chain
1	Z	521	
1	a	521	
1	b	521	
1	c	521	
1	d	521	
1	e	521	
1	f	521	
1	g	521	
1	h	521	
1	i	521	
1	j	521	
1	k	521	
1	l	521	
1	m	521	
1	n	521	
1	o	521	
1	p	521	
1	q	521	
1	r	521	
1	s	521	
1	t	521	
1	u	521	
1	v	521	
1	w	521	
1	x	521	

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Mol	Chain	Length	Quality of chain
1	y	521	 75%25%
1	z	521	 74%25%

2 Entry composition [i](#)

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 4142	C 2610	N 723	O 790	S 19	1	0
1	n	521	Total 4142	C 2610	N 723	O 790	S 19	1	0
1	o	521	Total 4142	C 2610	N 723	O 790	S 19	1	0
1	p	521	Total 4142	C 2610	N 723	O 790	S 19	1	0
1	q	521	Total 4142	C 2610	N 723	O 790	S 19	1	0
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	1	521	Total 4142	C 2610	N 723	O 790	S 19	1	0
1	2	521	Total 4142	C 2610	N 723	O 790	S 19	1	0
1	3	521	Total 4142	C 2610	N 723	O 790	S 19	1	0
1	4	521	Total 4142	C 2610	N 723	O 790	S 19	1	0
1	5	521	Total 4142	C 2610	N 723	O 790	S 19	1	0
1	6	521	Total 4142	C 2610	N 723	O 790	S 19	1	0
1	7	521	Total 4142	C 2610	N 723	O 790	S 19	1	0

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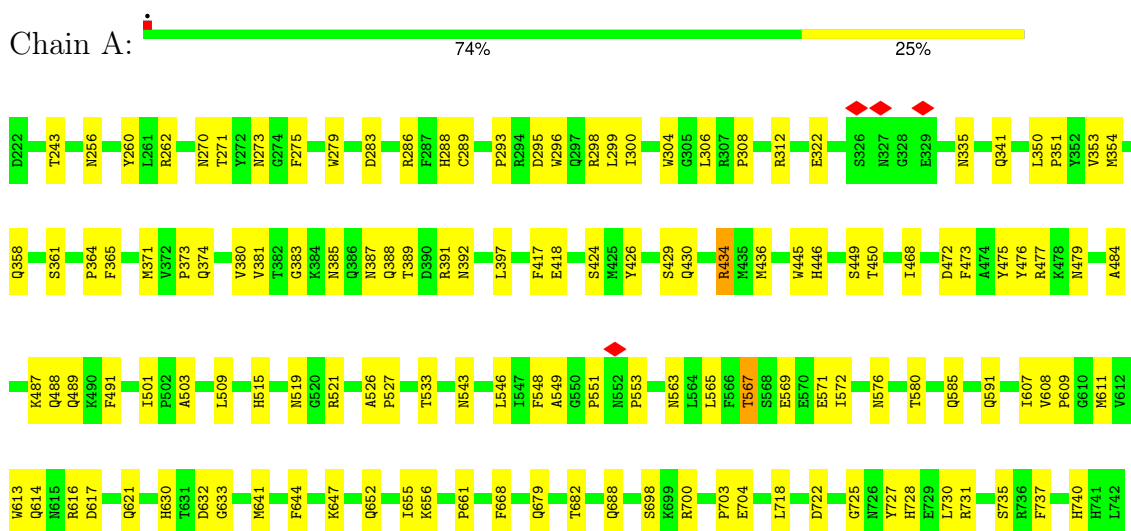
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Mol	Chain	Residues	Atoms					AltConf	Trace
1	8	521	Total	C	N	O	S	1	0
			4142	2610	723	790	19		

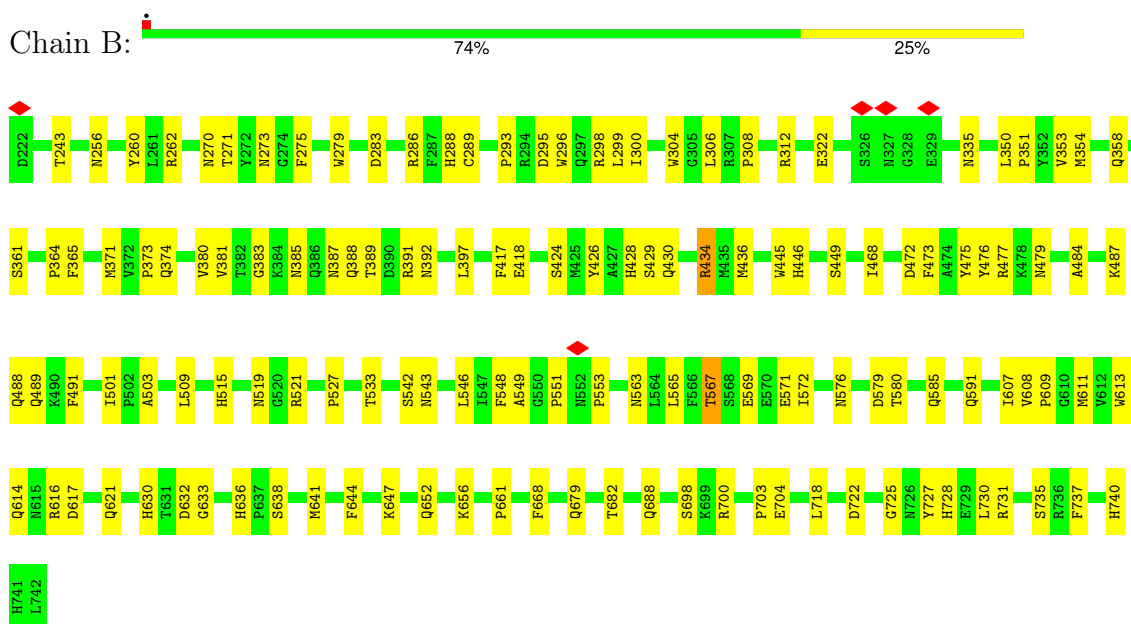
3 Residue-property plots

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.

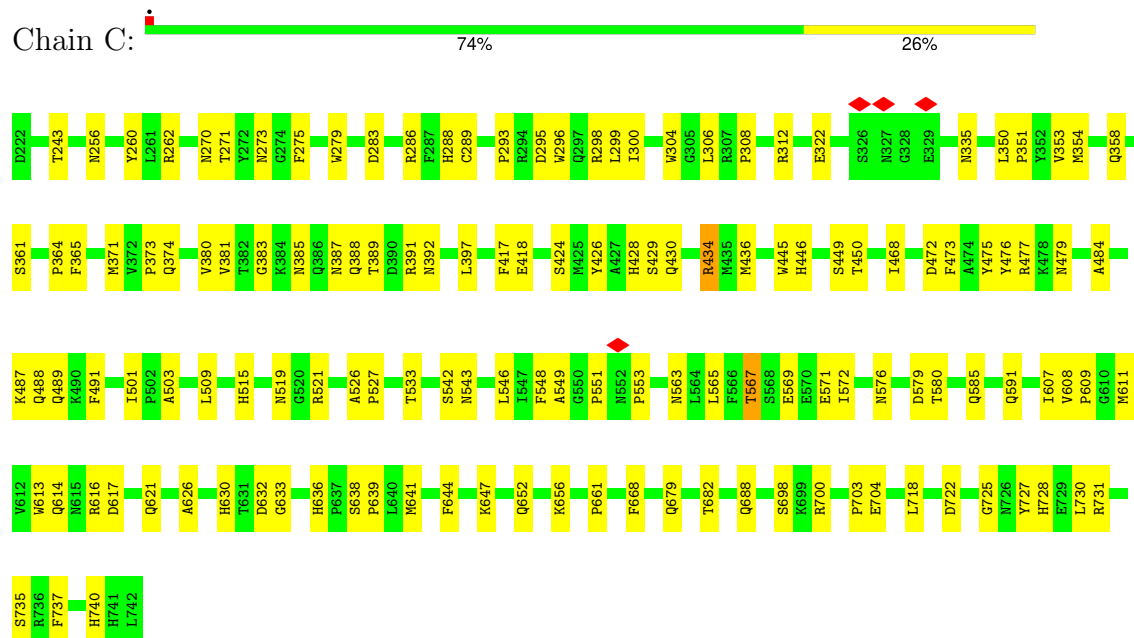
• Molecule 1: VP1



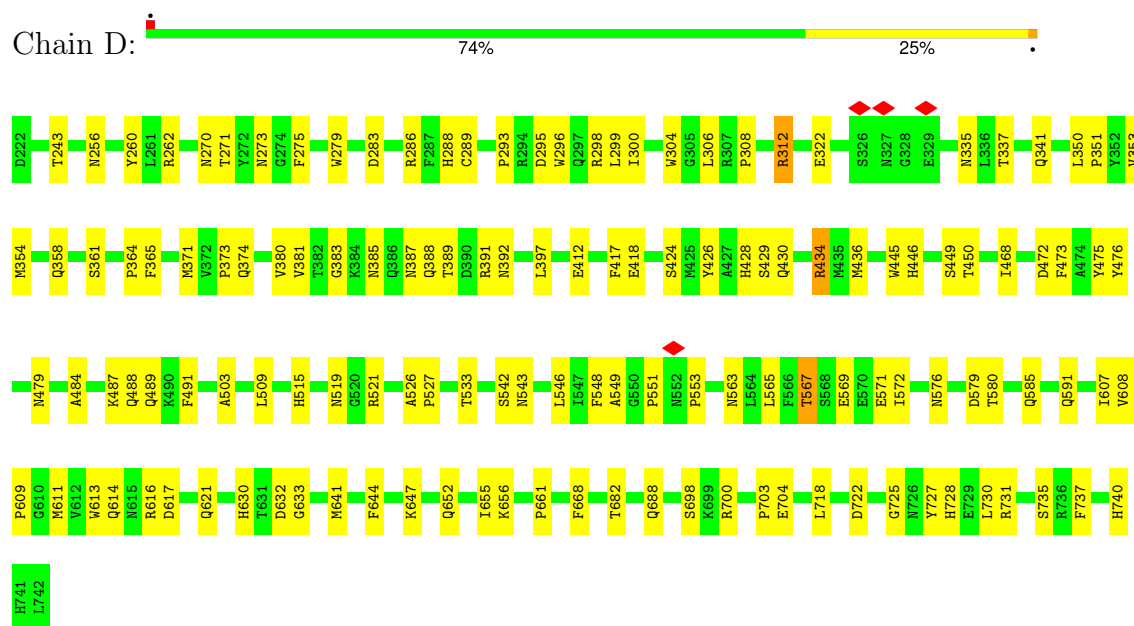
• Molecule 1: VP1



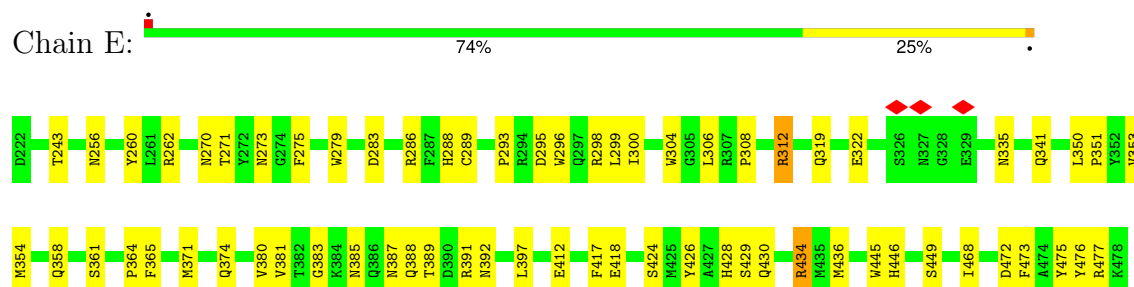
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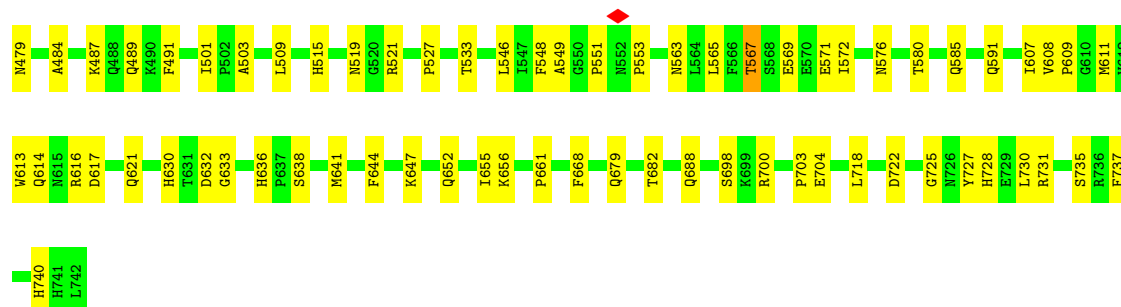


- Molecule 1: VP1

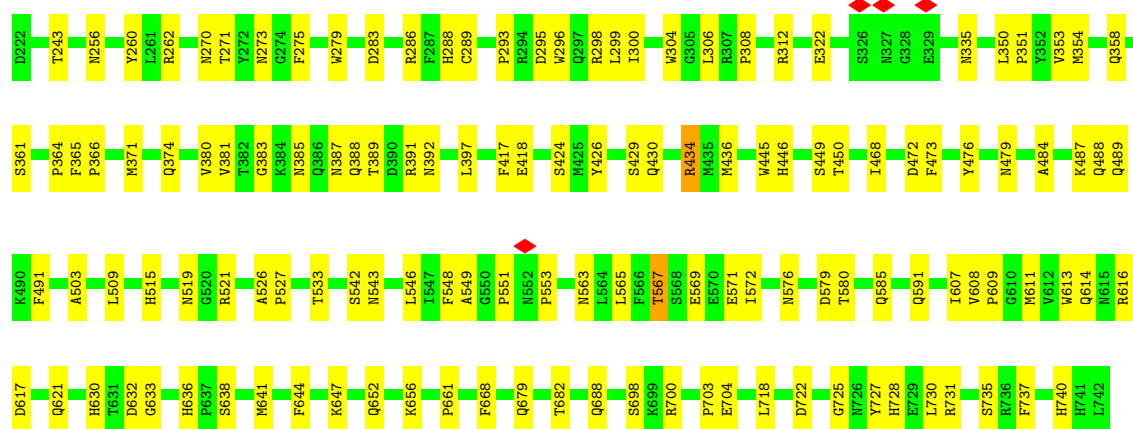


- Molecule 1: VP1

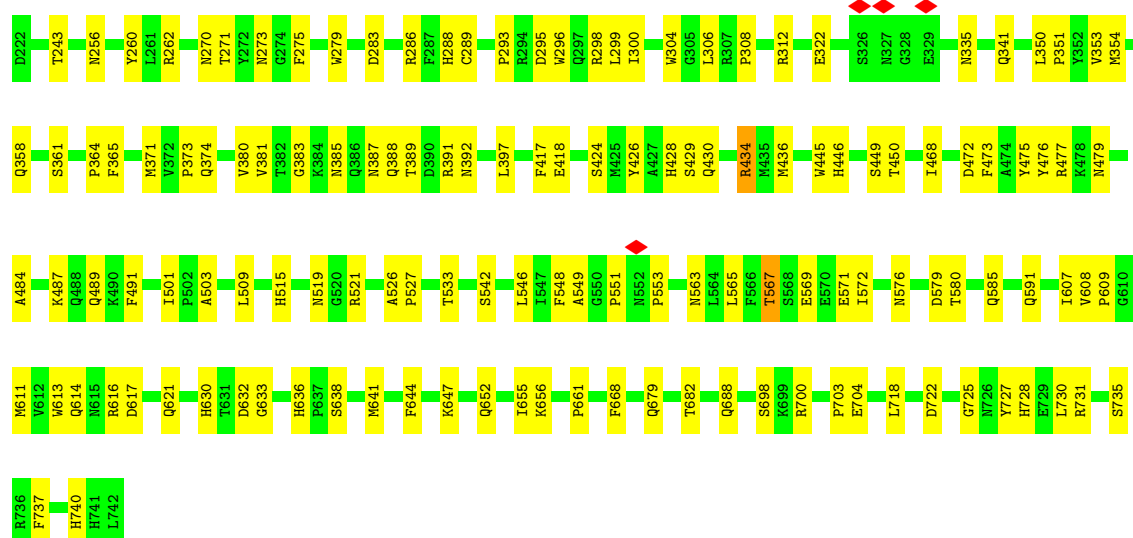
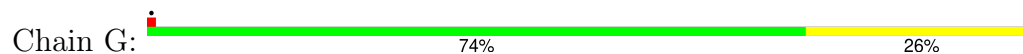




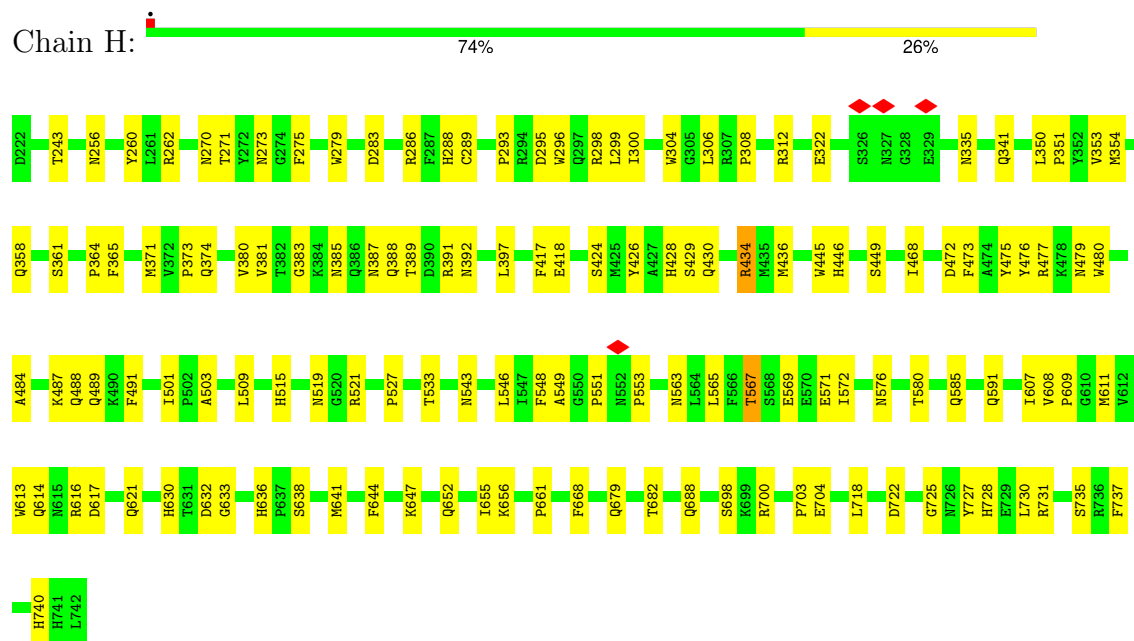
• Molecule 1: VP1



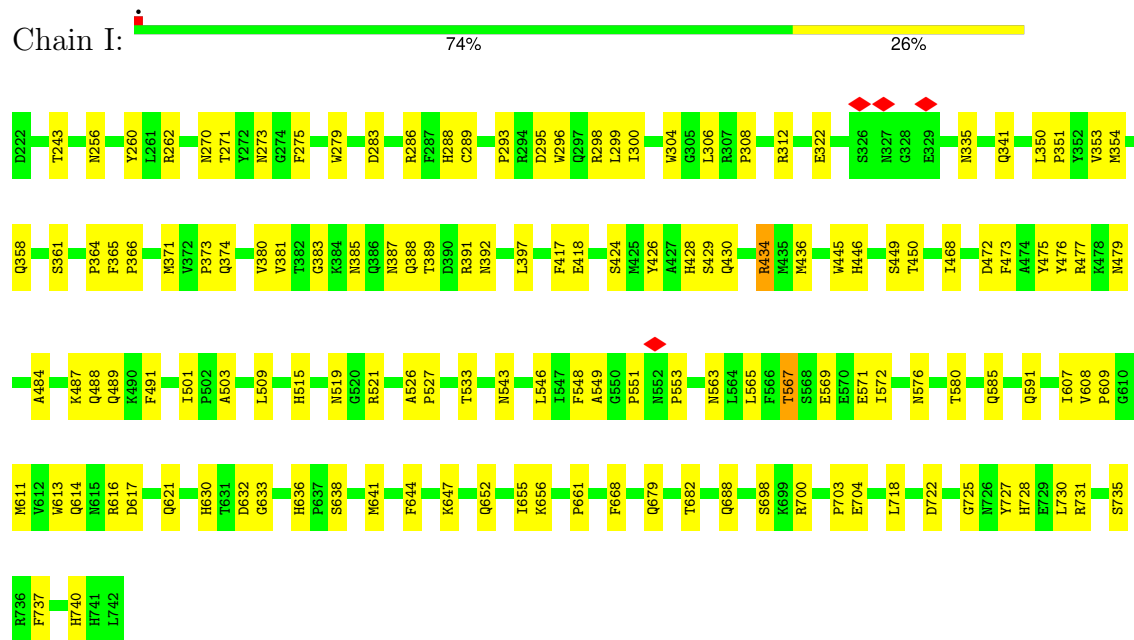
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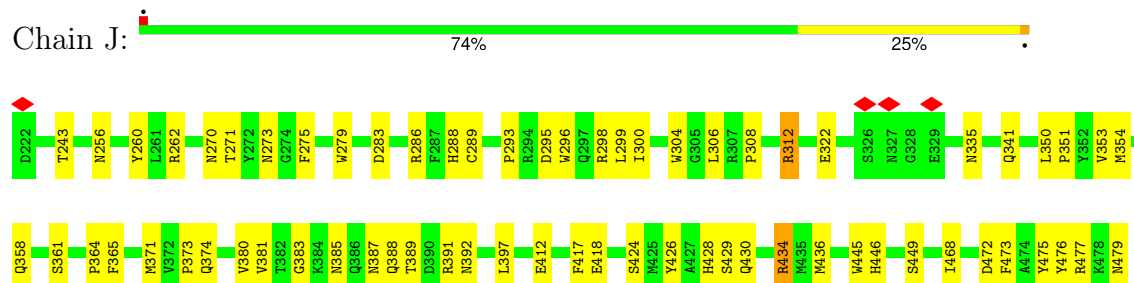
• Molecule 1: VP1

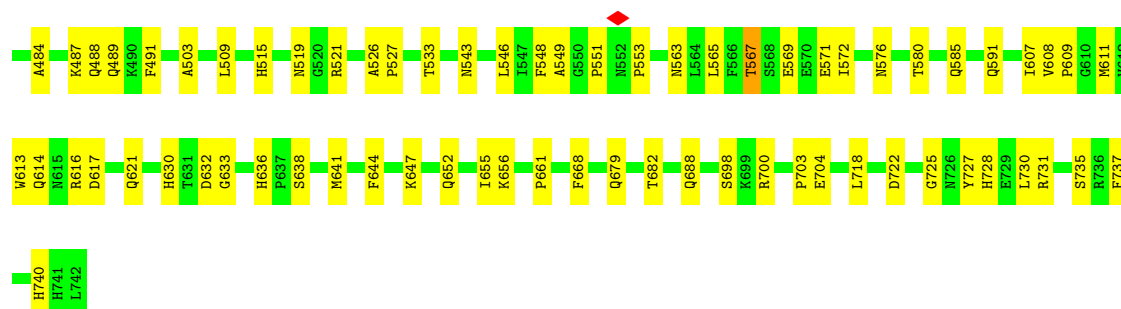


- Molecule 1: VP1

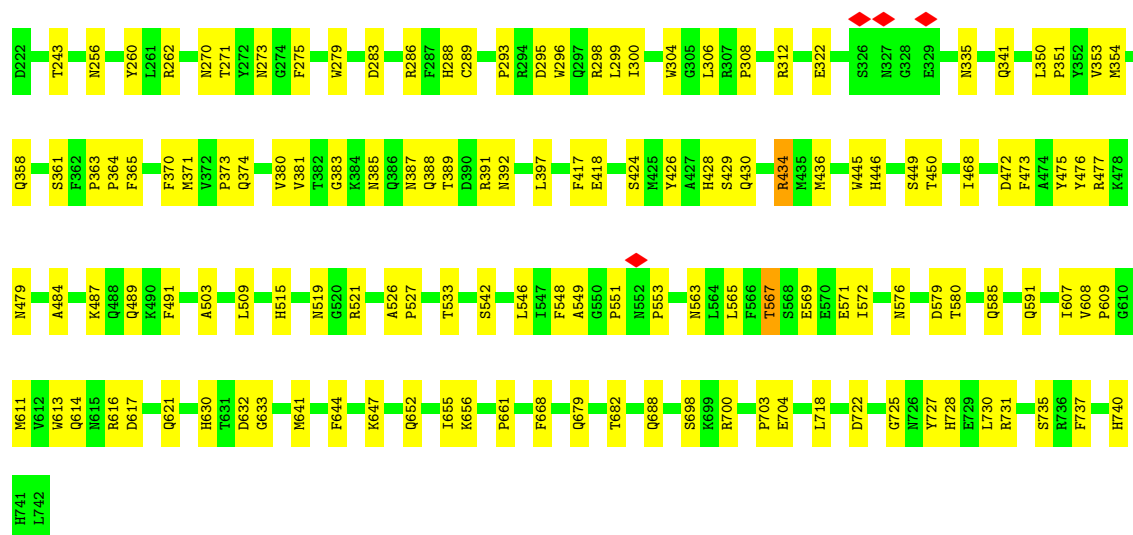


- Molecule 1: VP1

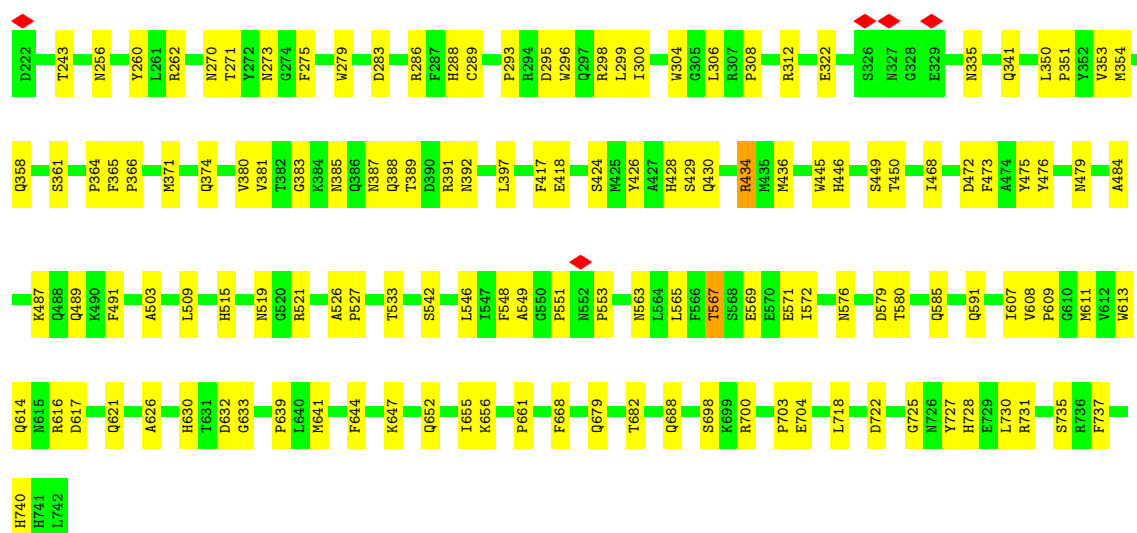
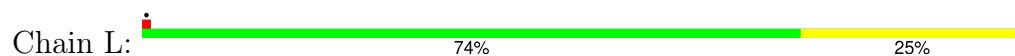




• Molecule 1: VP1



• Molecule 1: VP1



Chain M: 74% 26%

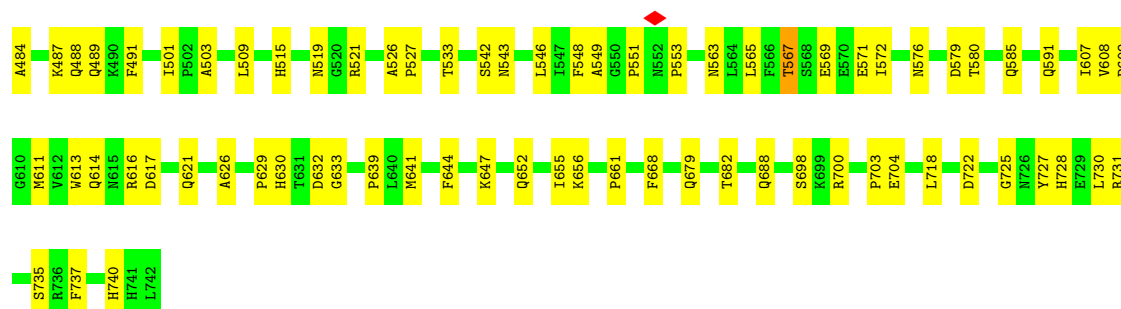
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R616	Green
D617	Green
Q621	Green
A626	Green
H630	Green
T631	Green
D632	Green
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P637	Green
S638	Green
P639	Green
L640	Green
M641	Green
F644	Green
K647	Green
Q652	Green
T655	Green
K656	Green
P661	Green
F668	Green
Q679	Green
T682	Green
Q688	Green
S698	Green
K699	Green
R700	Green
P703	Green
E704	Green
L718	Green
D722	Green
G725	Green
H726	Green
Y727	Green
L730	Green
R731	Green
L735	Green
S736	Green
R736	Green
A484	Green
K487	Green
Q488	Green
Q489	Green
F491	Green
A503	Green
L509	Green
H515	Green
M519	Green
G520	Green
G533	Green
R521	Green
P527	Green
T533	Green
S542	Green
K543	Green
L546	Green
F547	Green
A549	Green
M552	Green
P553	Green
M563	Green
L564	Green
L565	Green
F566	Green
T567	Green
S568	Green
E569	Green
E570	Green
E571	Green
I572	Green
M576	Green
D579	Green
T580	Green
Q585	Green
Q591	Green
I607	Green
V608	Green
P609	Green
L610	Green
M611	Green
V612	Green
Q358	Green
S361	Green
P364	Green
F365	Green
M371	Green
V372	Green
P373	Green
Q374	Green
V380	Green
V381	Green
T382	Green
K384	Green
N385	Green
G386	Green
N387	Green
Q388	Green
T389	Green
D390	Green
R391	Green
N392	Green
L397	Green
F417	Green
E418	Green
S424	Green
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Y426	Green
A427	Green
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S429	Green
Q430	Green
R434	Yellow
H435	Yellow
M436	Yellow
W445	Yellow
H446	Yellow
S449	Yellow
T450	Yellow
I468	Yellow
D472	Yellow
F473	Yellow
A474	Yellow
Y475	Yellow
Y476	Yellow
R477	Yellow
K478	Yellow
M479	Yellow
S326	Yellow
N327	Yellow
G328	Yellow
E329	Yellow
N335	Yellow
Q341	Yellow
L350	Yellow
P351	Yellow
V352	Yellow
V353	Yellow
M354	Yellow

Chain N:

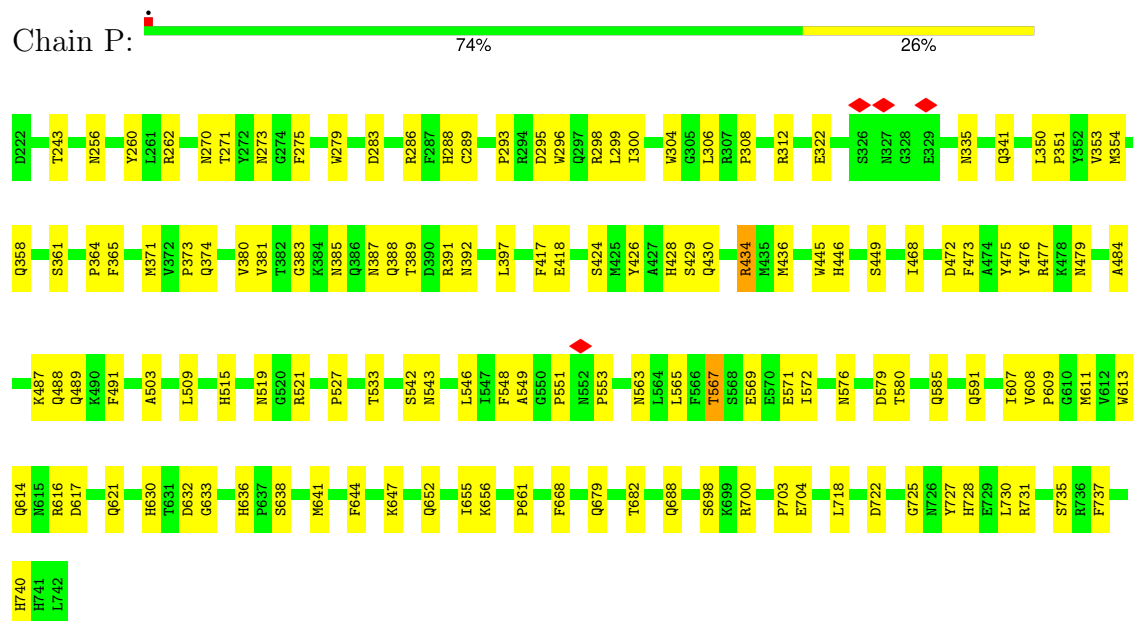
Item	Category
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K487	Yellow
Q488	Yellow
D489	Yellow
K490	Green
F491	Yellow
I501	Yellow
P502	Green
A503	Yellow
L509	Yellow
H515	Yellow
N519	Yellow
G520	Green
R521	Yellow
P527	Yellow
T533	Yellow
N543	Yellow
L546	Yellow
I547	Yellow
F548	Yellow
A549	Yellow
G550	Yellow
P551	Yellow
N552	Yellow
P553	Yellow
N563	Yellow
K699	Yellow
R700	Yellow
L562	Yellow
L565	Yellow
P566	Yellow
T567	Yellow
S568	Red Diamond
E569	Yellow
E570	Yellow
E571	Yellow
L572	Yellow
N576	Yellow
T580	Yellow
Q585	Yellow
Q591	Yellow
L607	Yellow
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D722	Green
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S735	Green
R736	Green
F737	Green
H740	Green
L741	Green
L742	Green
Q358	Green
S361	Green
P364	Green
F365	Green
P366	Green
M371	Green
Q374	Green
V380	Green
X381	Green
T382	Green
G383	Green
K384	Green
N385	Green
Q386	Green
N387	Green
Q388	Green
T389	Green
D390	Green
R391	Green
H392	Green
L397	Green
E398	Green
D295	Green
E412	Green
F417	Green
E418	Green
S424	Green
M425	Green
Y426	Green
G305	Green
L306	Green
R307	Green
P308	Green
R312	Green
E322	Green
S326	Green
N327	Green
G328	Green
E329	Green
N335	Green
Q341	Green
L350	Green
P351	Green
Y352	Green
V353	Green
M354	Green
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
H288	Green
C289	Green
P293	Green
R294	Green
Q297	Green
R298	Green
L299	Green
I300	Green
W304	Green
G305	Green
L306	Green
R307	Green
P308	Green
R312	Green
E322	Green
S326	Green
N327	Green
G328	Green
E329	Green
N335	Green
Q341	Green
L350	Green
P351	Green
Y352	Green
V353	Green
M354	Green

Chain O:

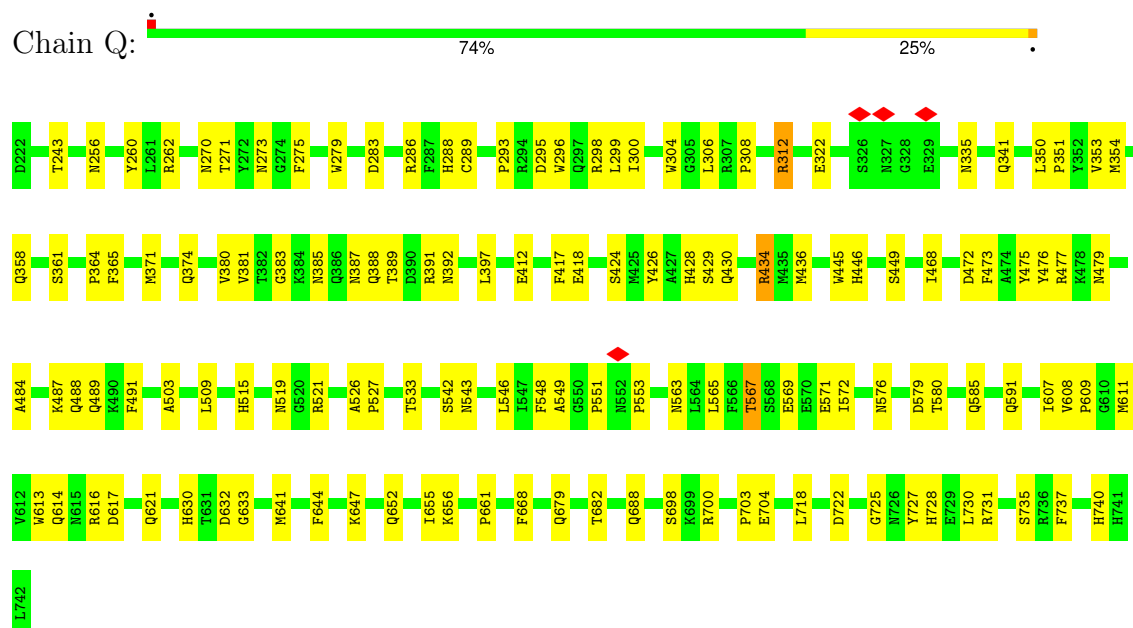
ID	Value
D222	1
T243	2
N256	3
Y280	4
L281	5
R262	6
N270	7
T271	8
Y272	9
N273	10
G274	11
F275	12
W279	13
D283	14
R286	15
F287	16
H288	17
G289	18
P293	19
R294	20
D295	21
W296	22
G297	23
R298	24
L299	25
I300	26
W304	27
G305	28
L306	29
F307	30
P308	31
R312	32
K321	33
E322	34
S326	35
N327	36
G328	37
E329	38
N334	39
N335	40
Q341	41
L350	42
P351	43
Y352	44
V353	45
M354	46
Q358	47
S361	48



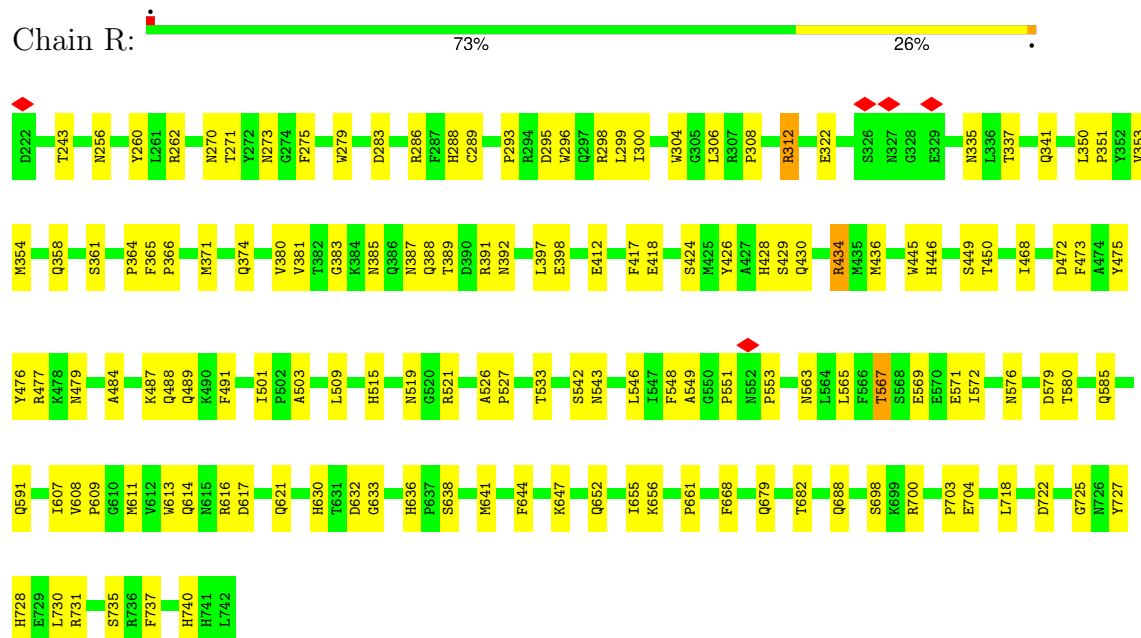
• Molecule 1: VP1



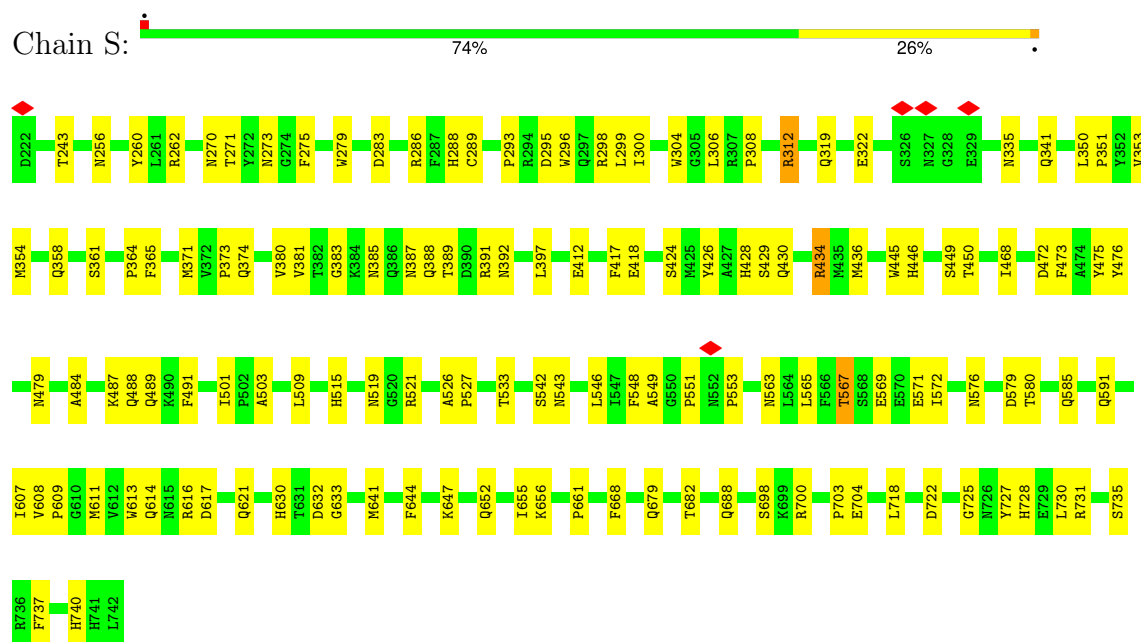
• Molecule 1: VP1



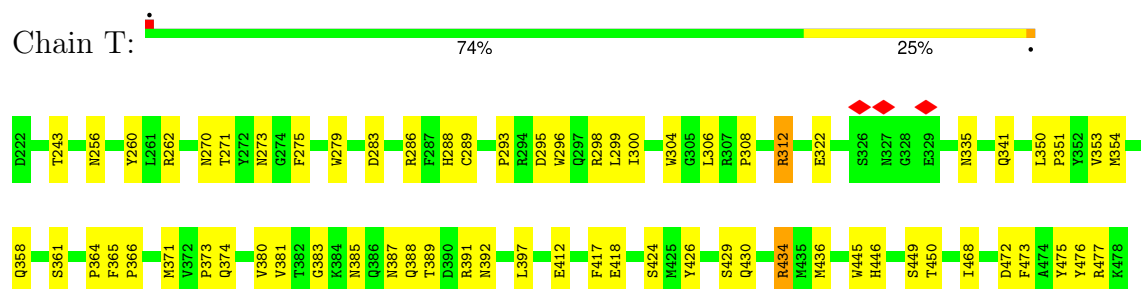
● Molecule 1: VP1



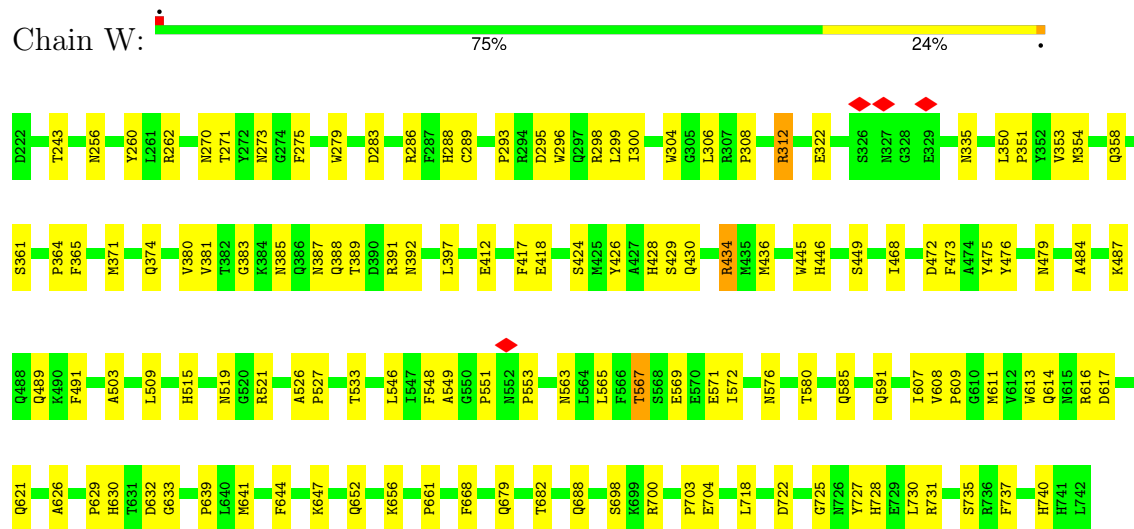
● Molecule 1: VP1



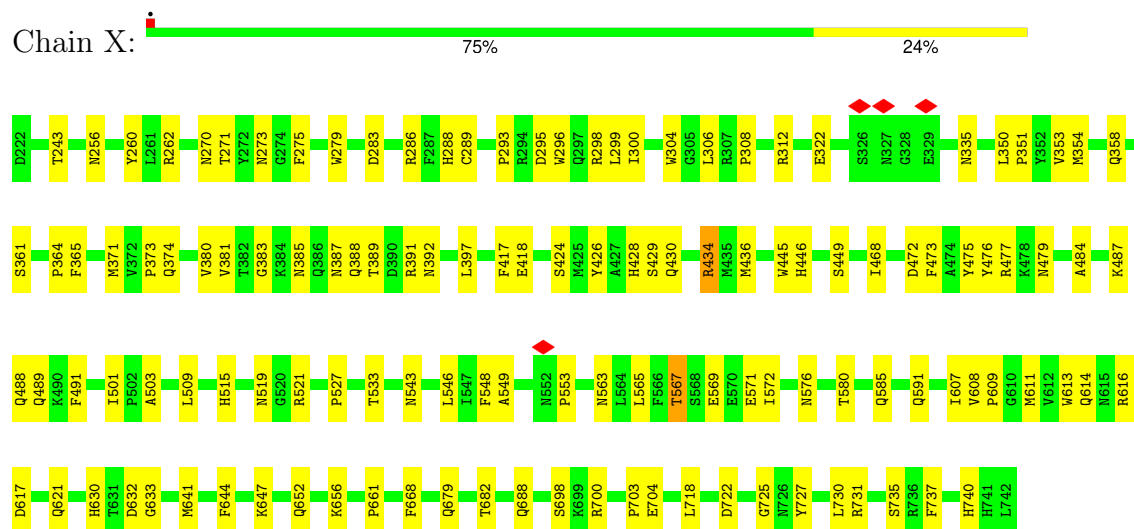
● Molecule 1: VP1



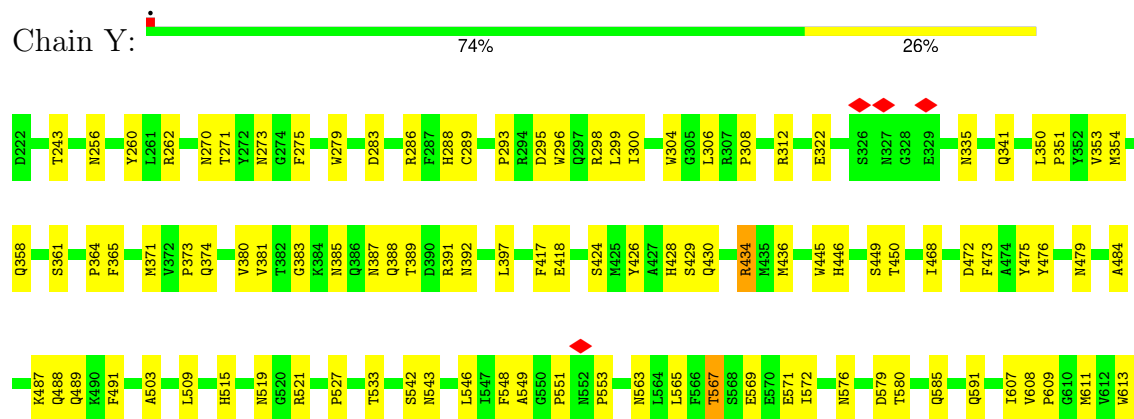
● Molecule 1: VP1

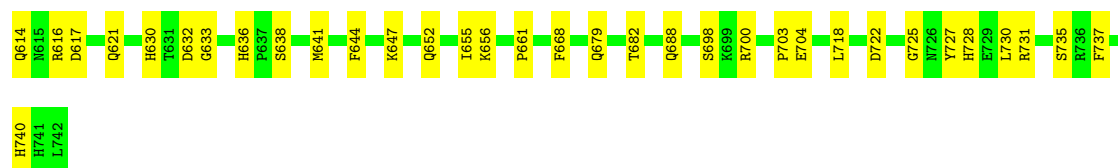


● Molecule 1: VP1

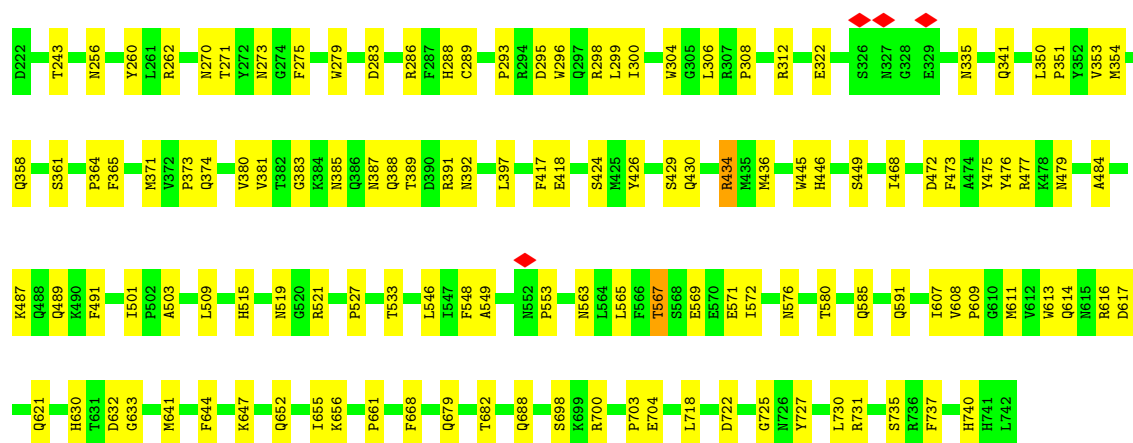
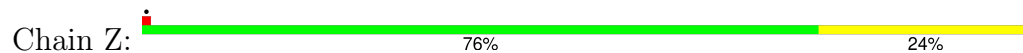


● Molecule 1: VP1

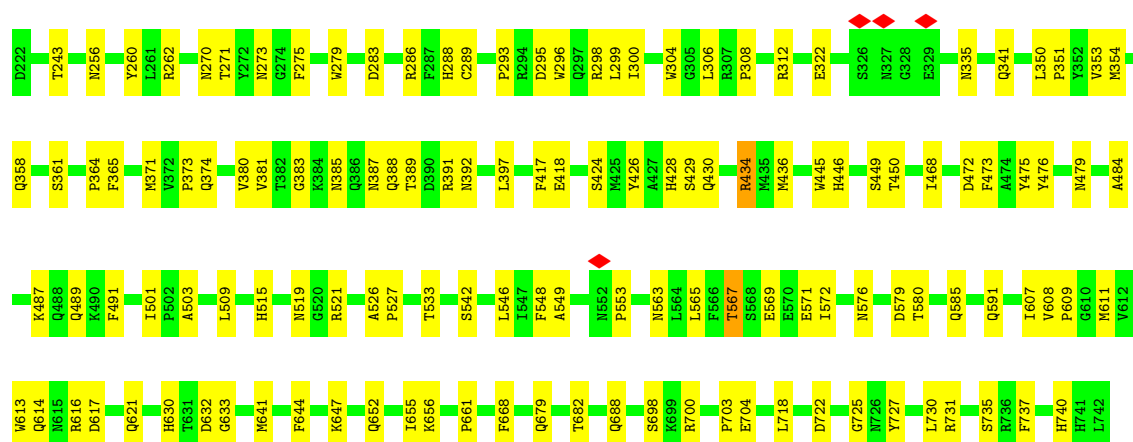
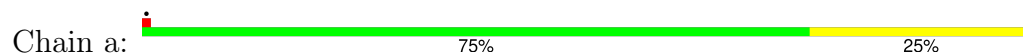




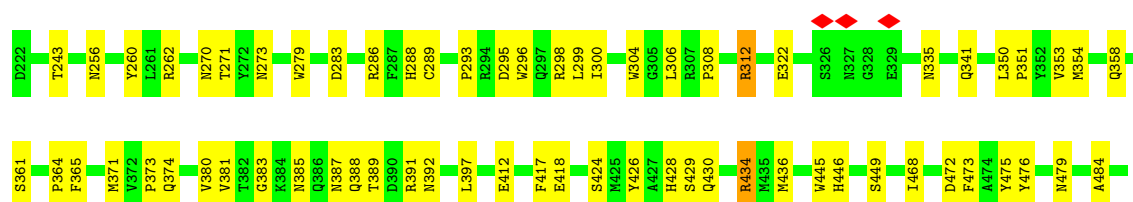
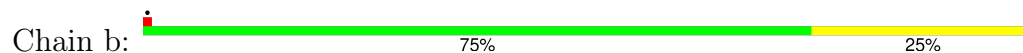
• Molecule 1: VP1

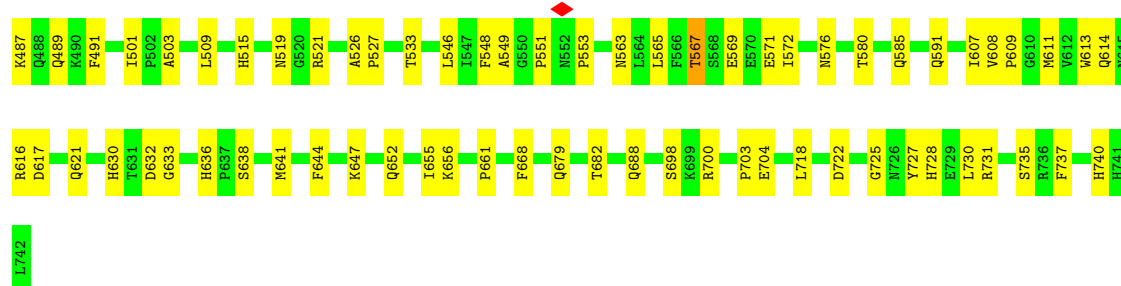


• Molecule 1: VP1

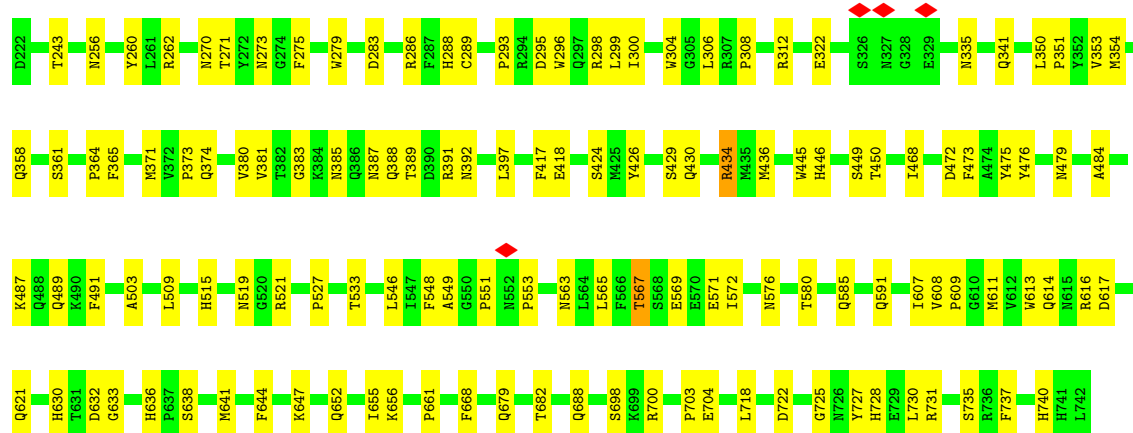


• Molecule 1: VP1





• Molecule 1: VP1

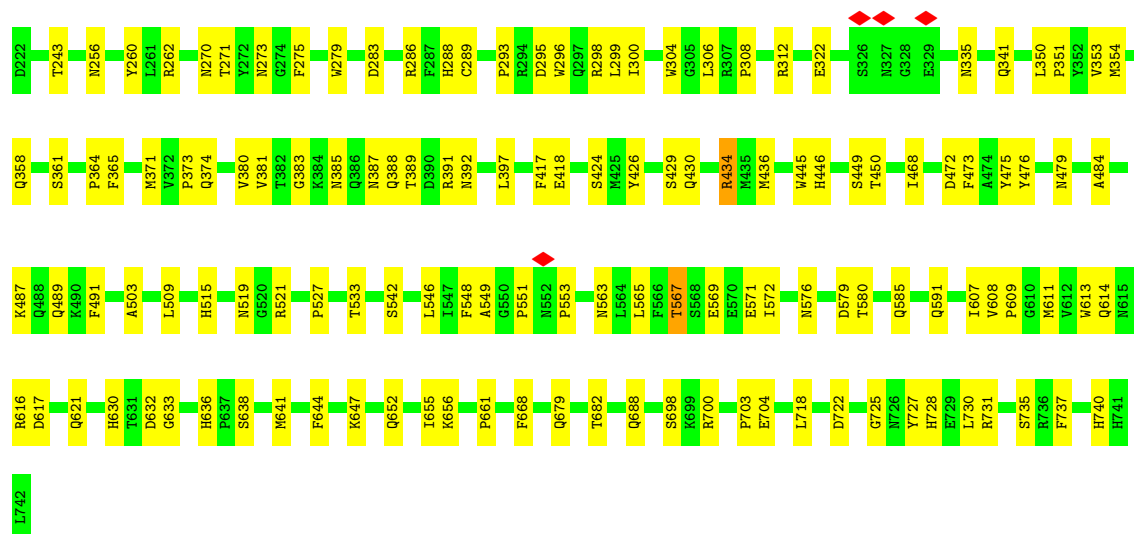


• Molecule 1: VP1

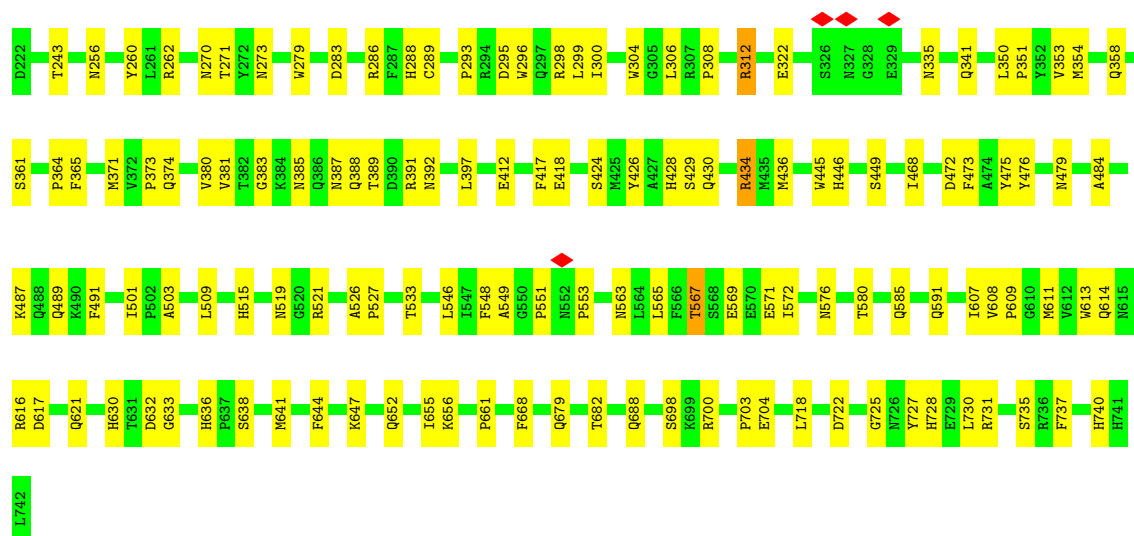


• Molecule 1: VP1

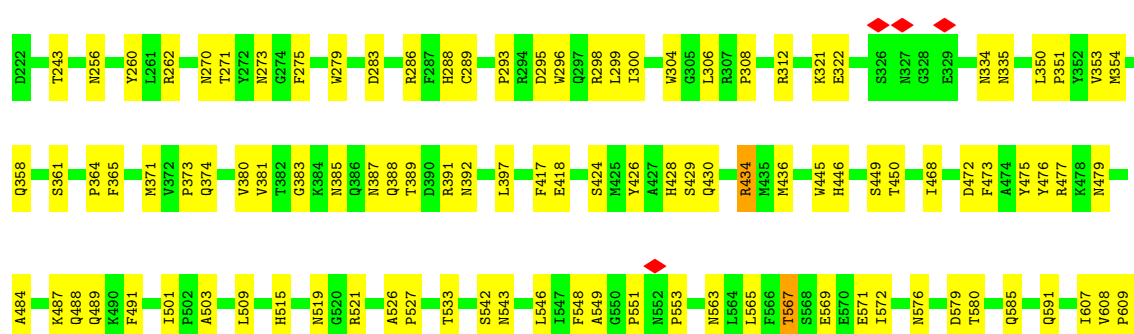


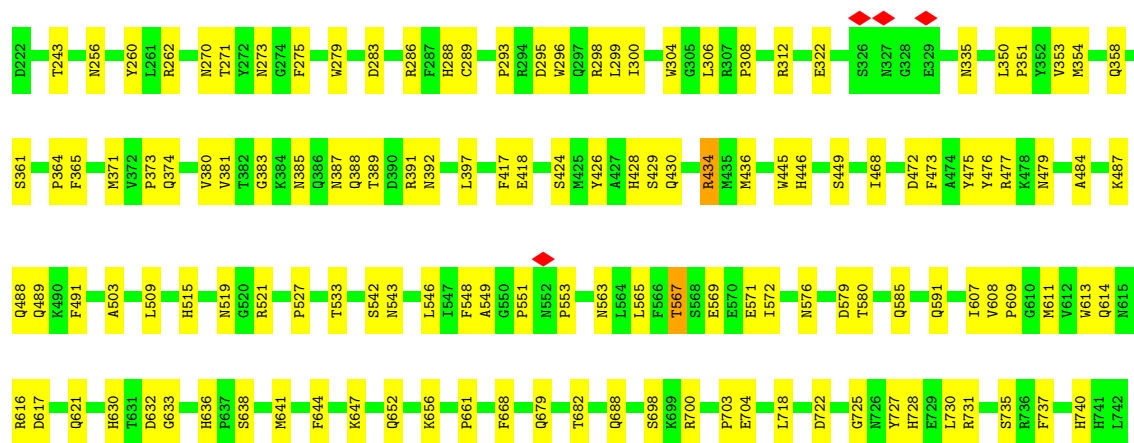


• Molecule 1: VP1

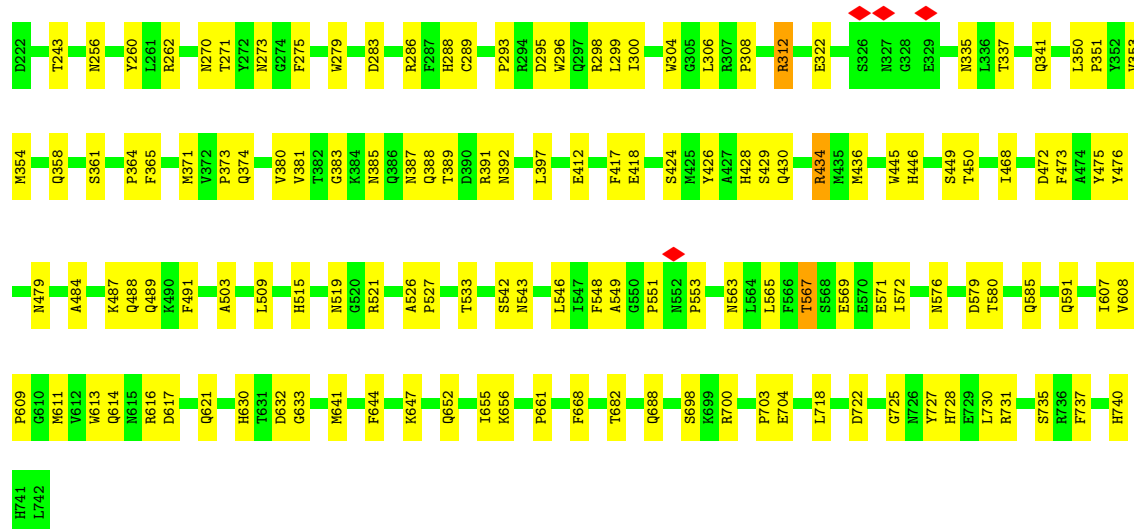


• Molecule 1: VP1

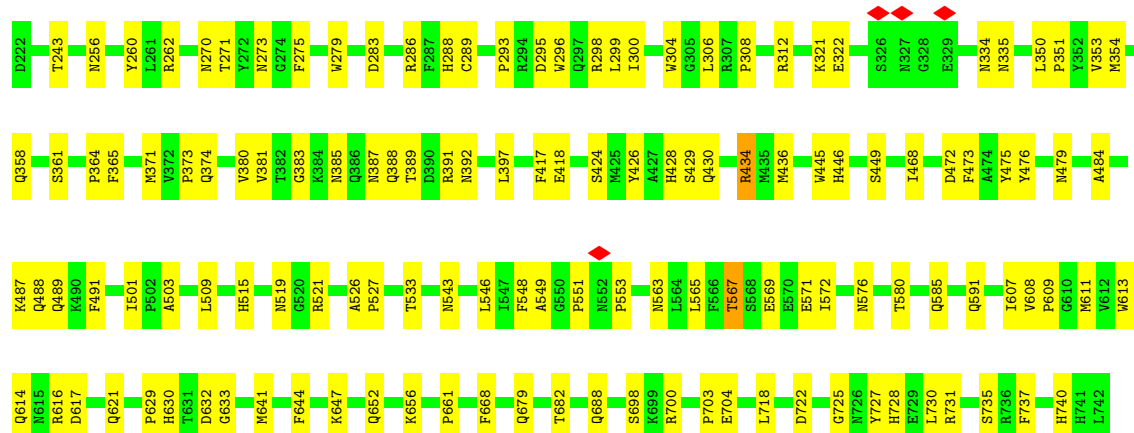




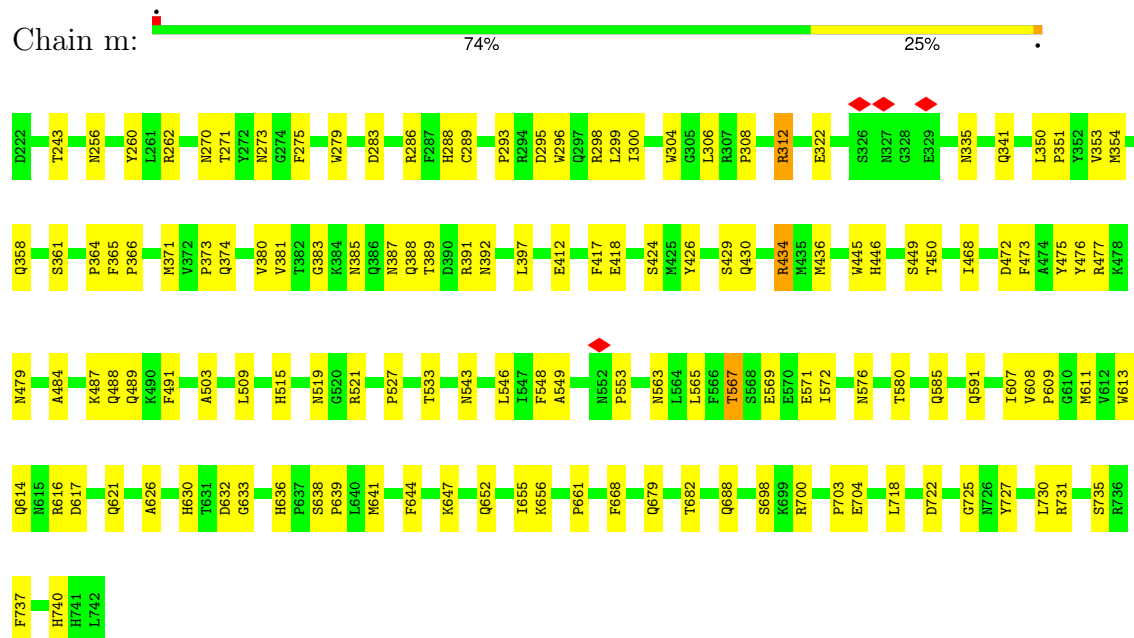
• Molecule 1: VP1



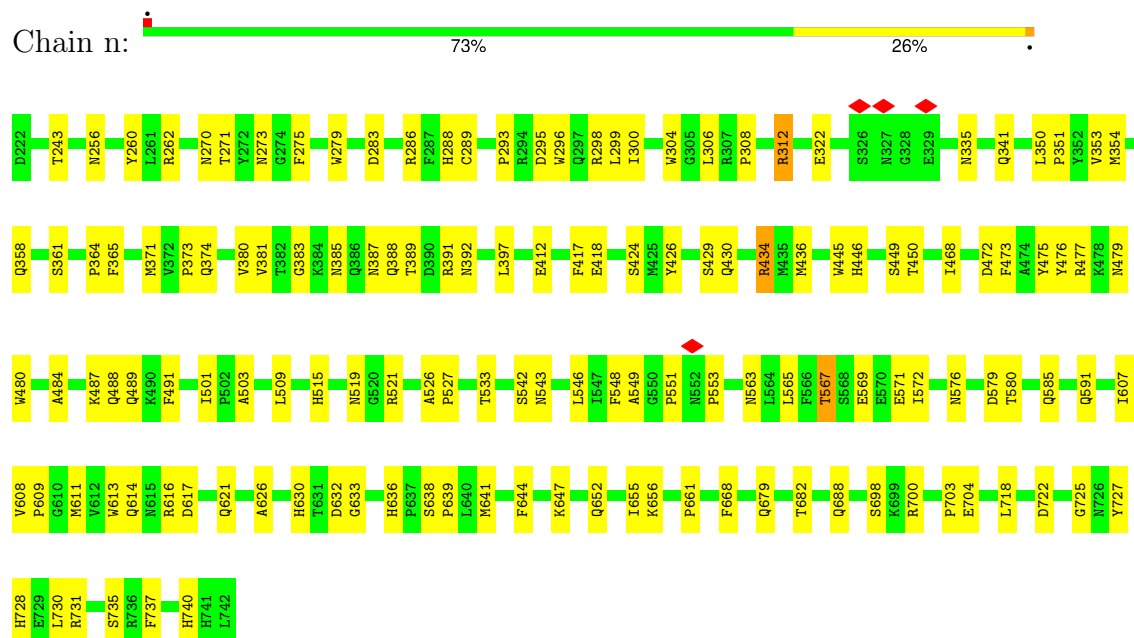
• Molecule 1: VP1



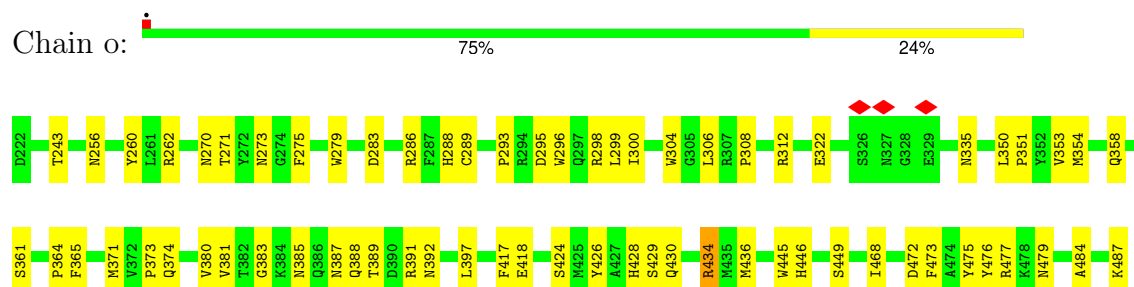
• Molecule 1: VP1

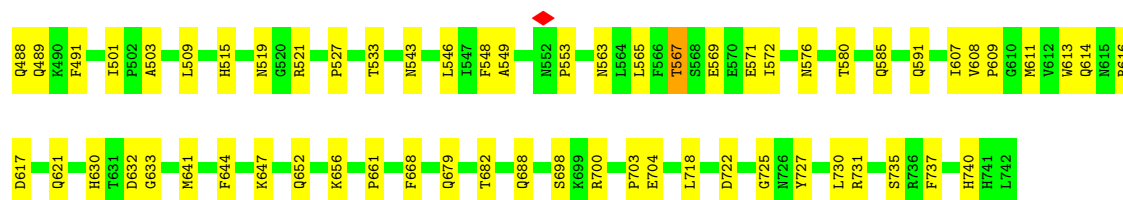


• Molecule 1: VP1

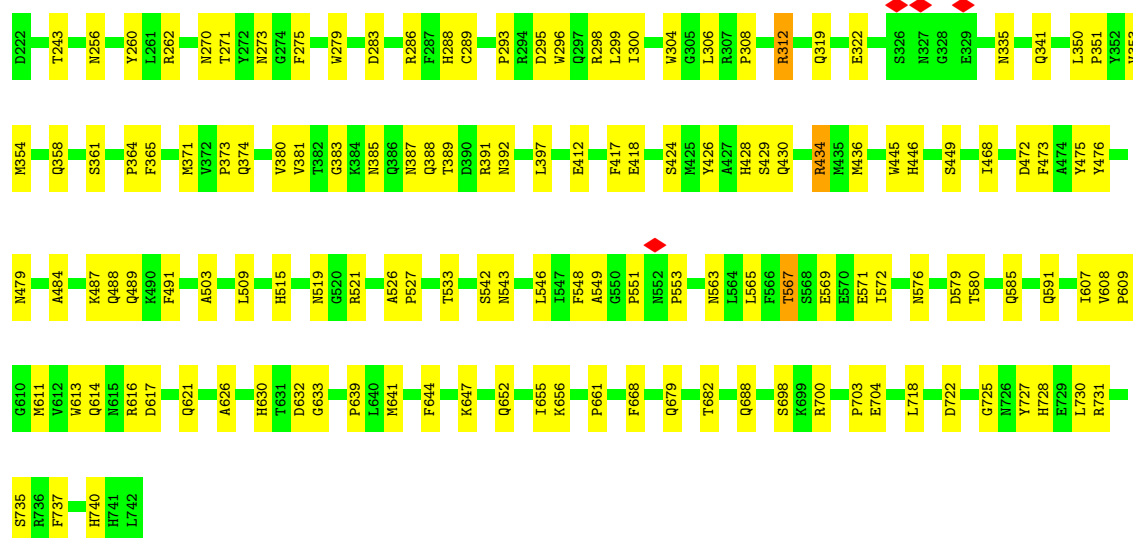


• Molecule 1: VP1

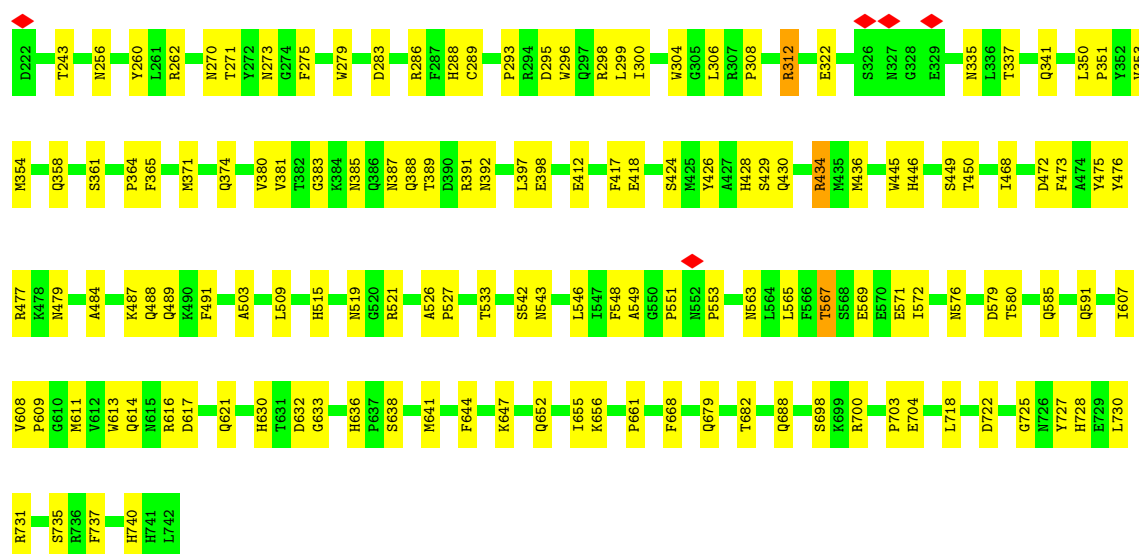




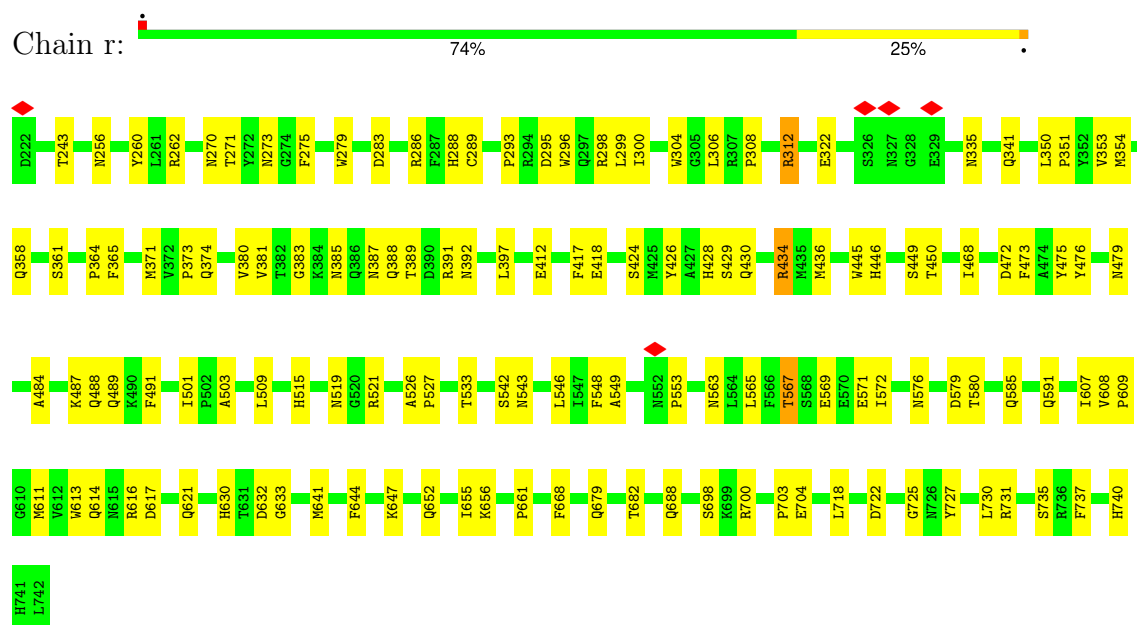
• Molecule 1: VP1



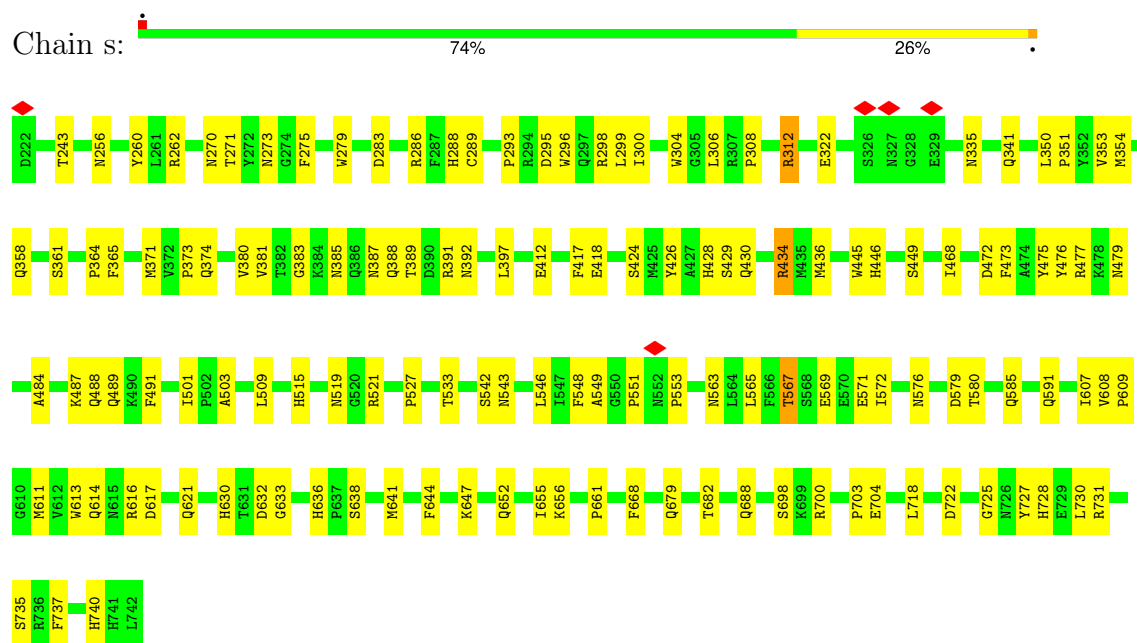
• Molecule 1: VP1



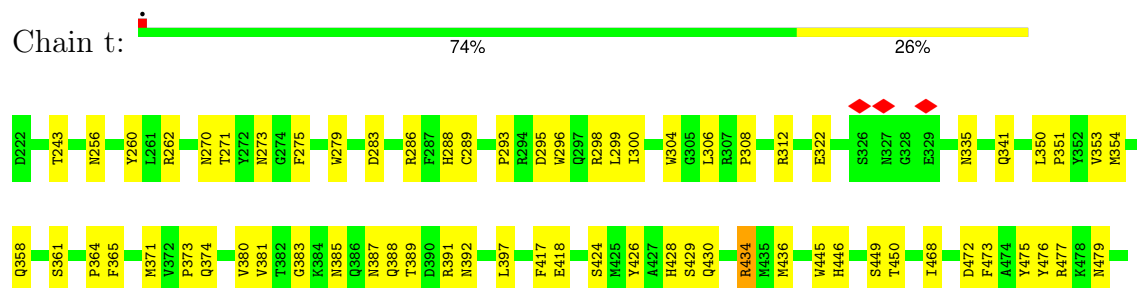
• Molecule 1: VP1

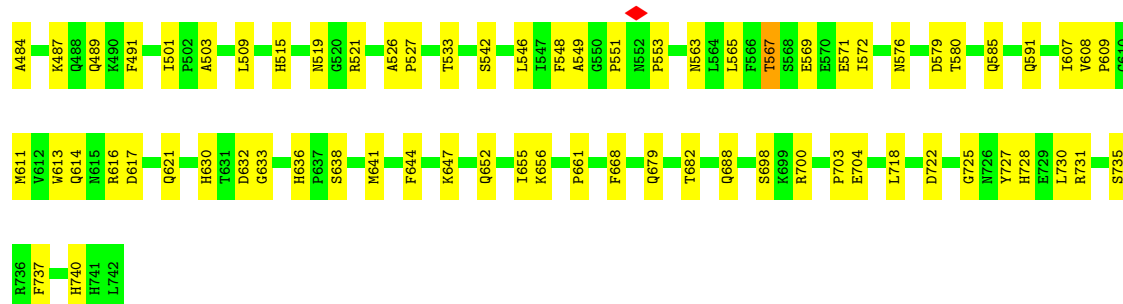


• Molecule 1: VP1

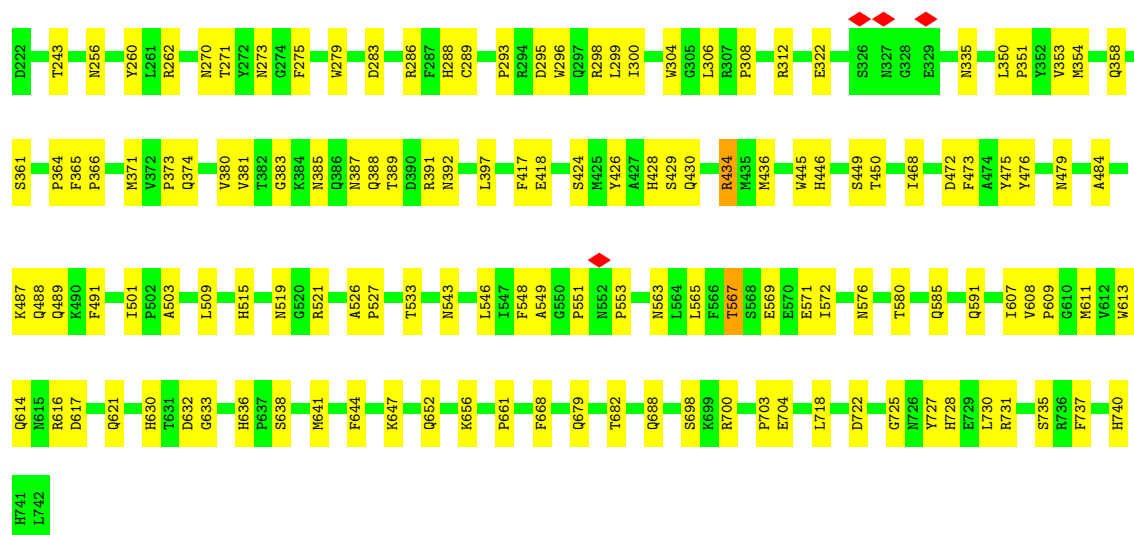


• Molecule 1: VP1

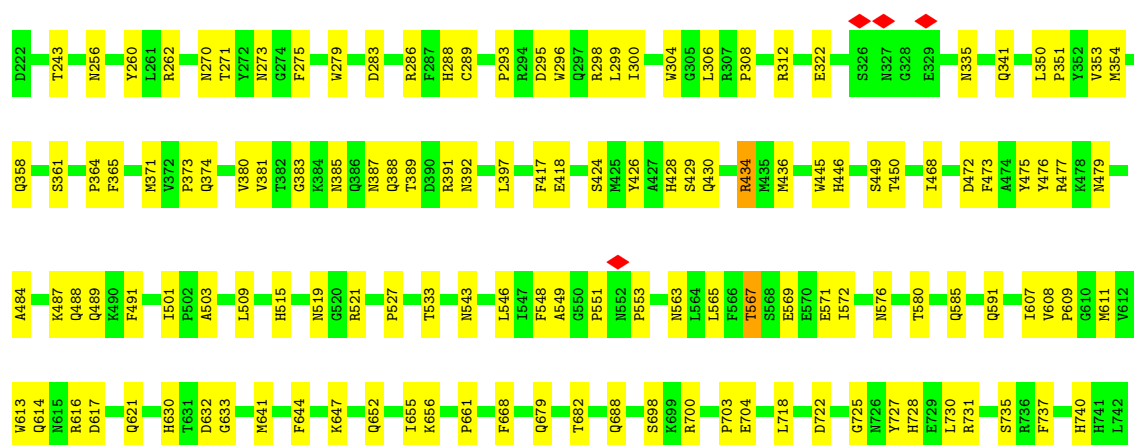




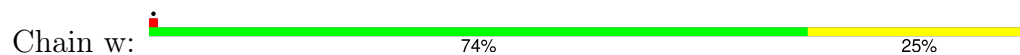
• Molecule 1: VP1

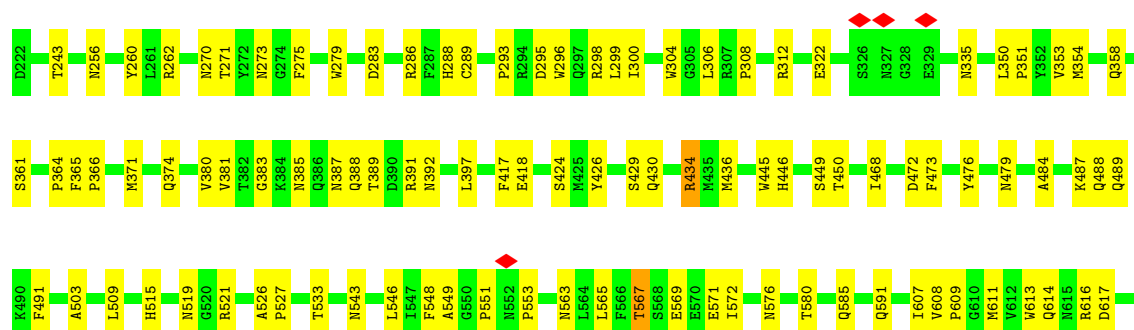


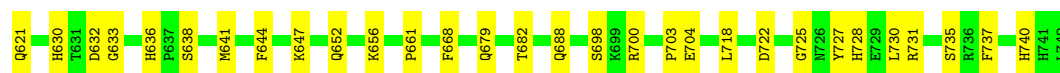
• Molecule 1: VP1



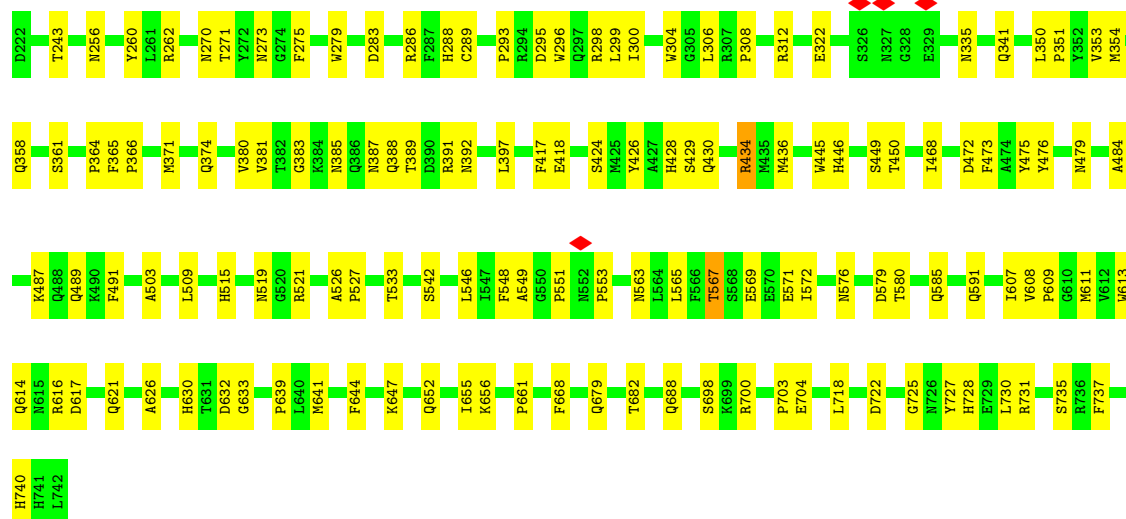
• Molecule 1: VP1



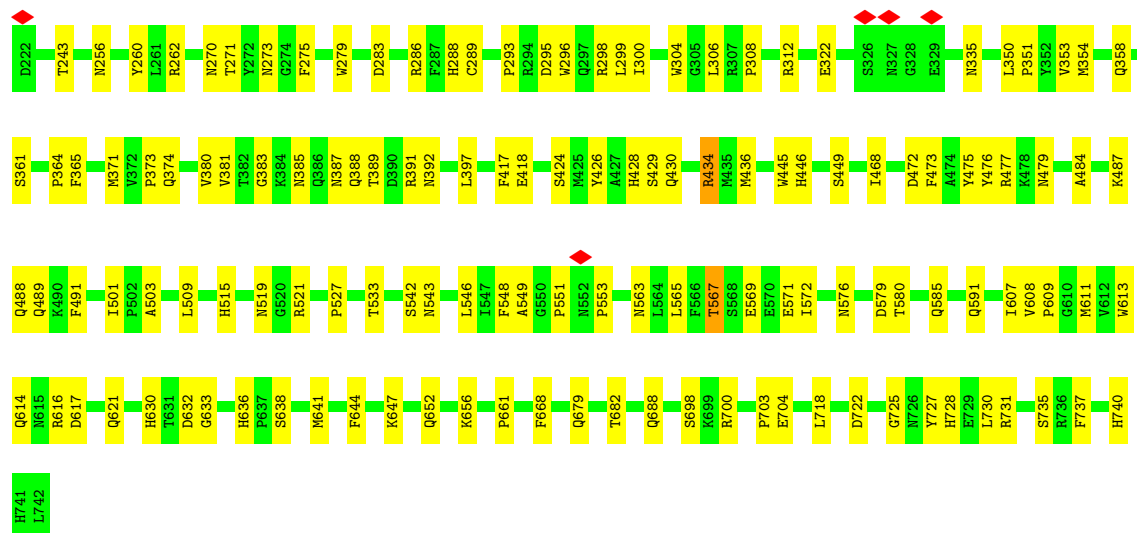
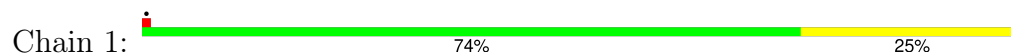




• Molecule 1: VP1

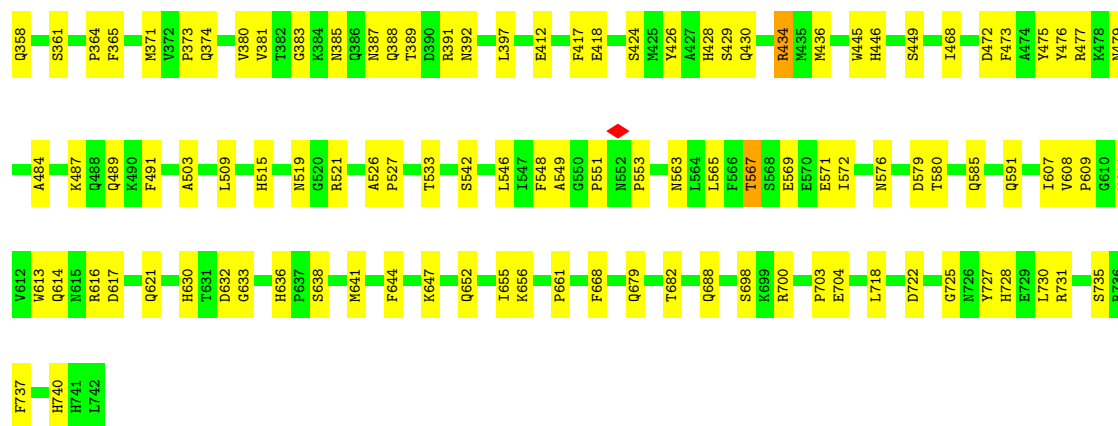


• Molecule 1: VP1

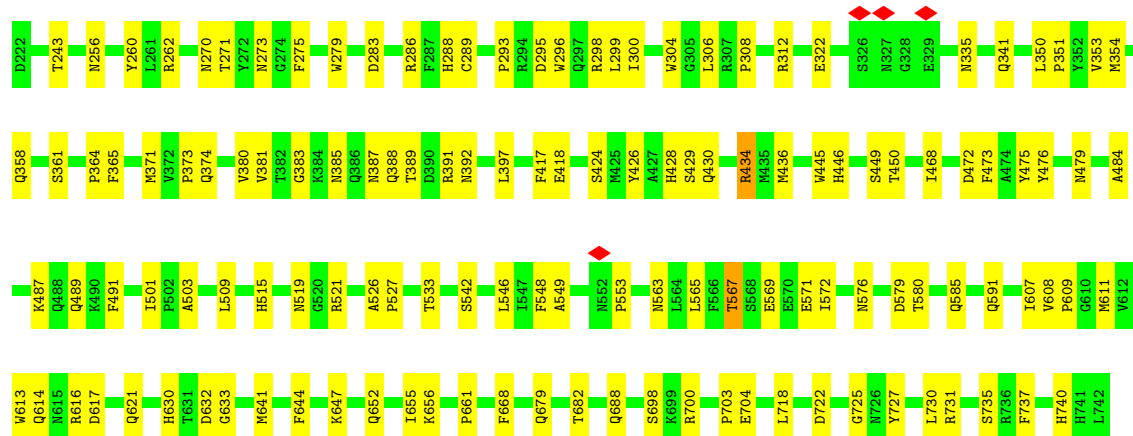
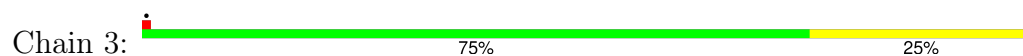


• Molecule 1: VP1

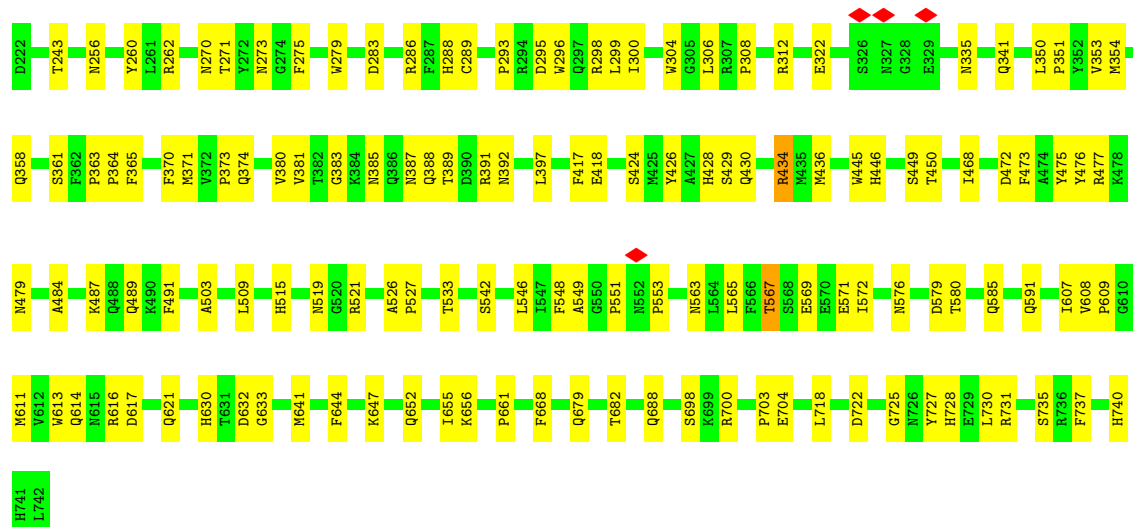




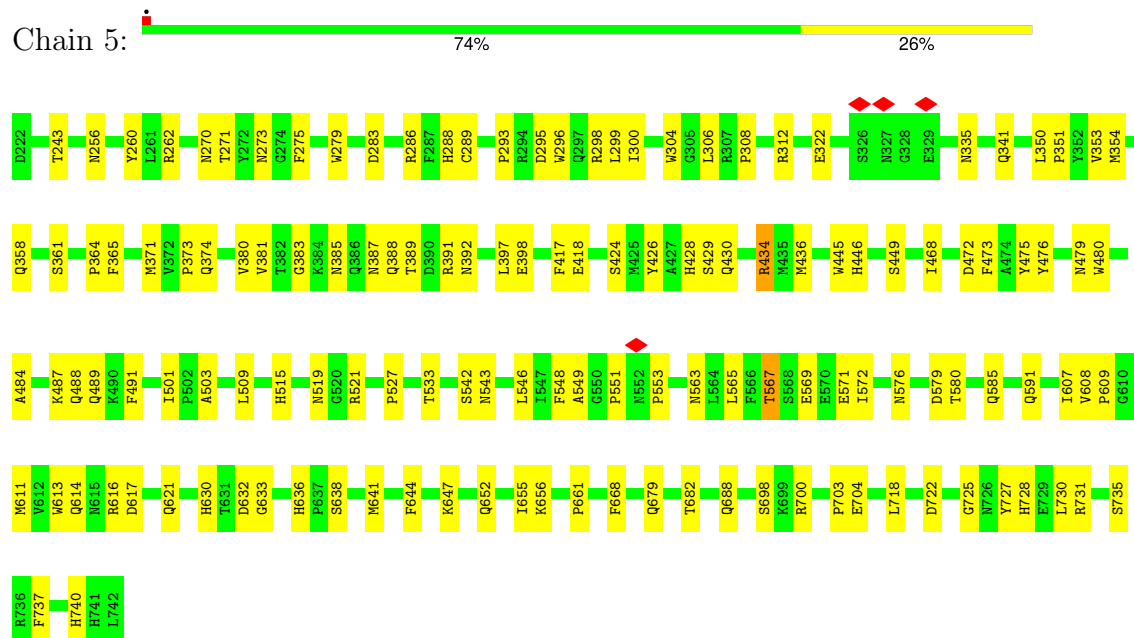
• Molecule 1: VP1



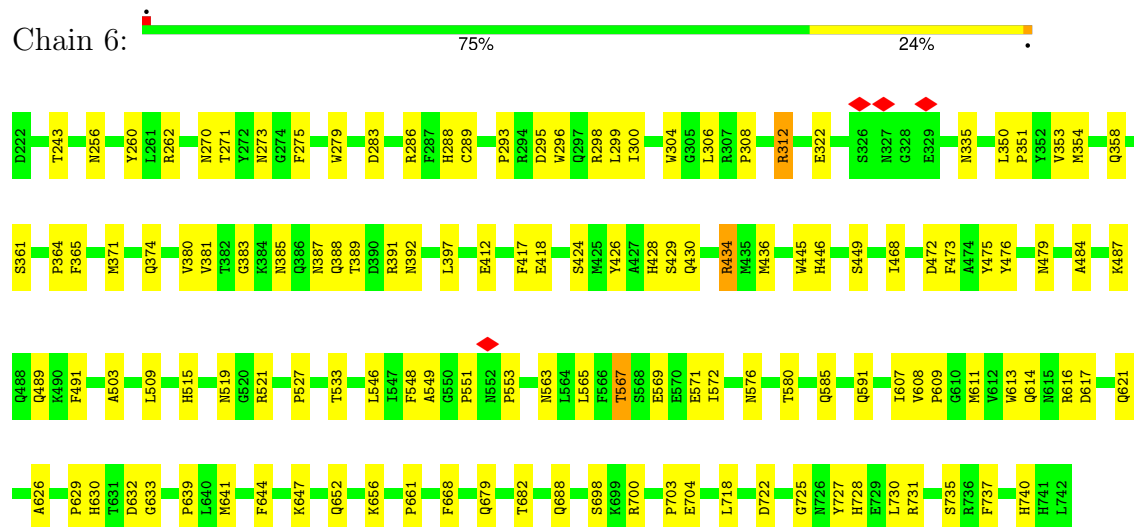
• Molecule 1: VP1



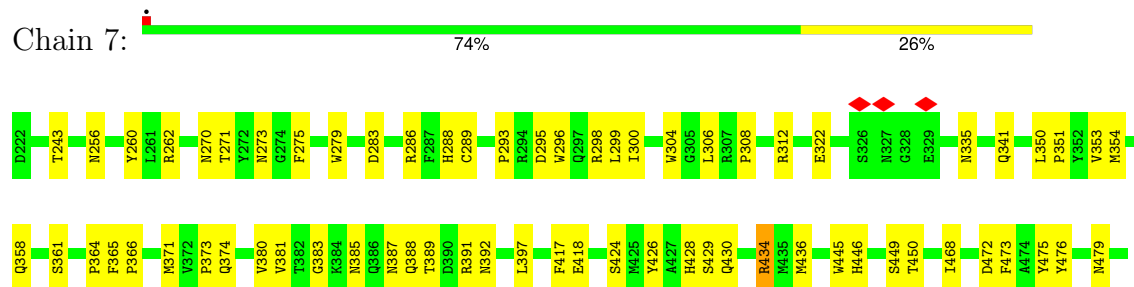
Chain 5:

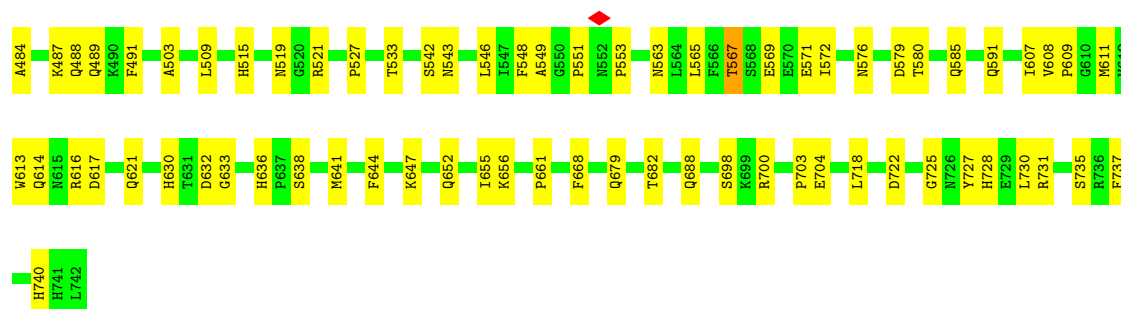


Chain 6:

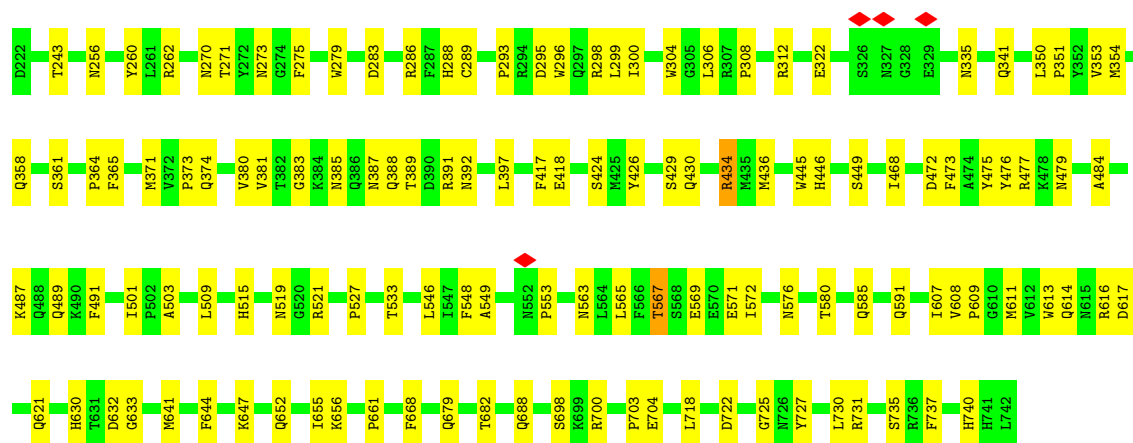
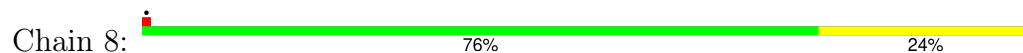


Chain 7:





• 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%)	89	94
1	2	450/449 (100%)	448 (100%)	2 (0%)	89	94
1	3	450/449 (100%)	448 (100%)	2 (0%)	89	94
1	4	450/449 (100%)	448 (100%)	2 (0%)	89	94
1	5	450/449 (100%)	448 (100%)	2 (0%)	89	94
1	6	450/449 (100%)	448 (100%)	2 (0%)	89	94
1	7	450/449 (100%)	448 (100%)	2 (0%)	89	94
1	8	450/449 (100%)	448 (100%)	2 (0%)	89	94
1	A	450/449 (100%)	448 (100%)	2 (0%)	89	94
1	B	450/449 (100%)	448 (100%)	2 (0%)	89	94
1	C	450/449 (100%)	448 (100%)	2 (0%)	89	94
1	D	450/449 (100%)	448 (100%)	2 (0%)	89	94
1	E	450/449 (100%)	448 (100%)	2 (0%)	89	94
1	F	450/449 (100%)	448 (100%)	2 (0%)	89	94
1	G	450/449 (100%)	448 (100%)	2 (0%)	89	94
1	H	450/449 (100%)	448 (100%)	2 (0%)	89	94
1	I	450/449 (100%)	448 (100%)	2 (0%)	89	94
1	J	450/449 (100%)	448 (100%)	2 (0%)	89	94
1	K	450/449 (100%)	448 (100%)	2 (0%)	89	94
1	L	450/449 (100%)	448 (100%)	2 (0%)	89	94
1	M	450/449 (100%)	448 (100%)	2 (0%)	89	94
1	N	450/449 (100%)	448 (100%)	2 (0%)	89	94
1	O	450/449 (100%)	448 (100%)	2 (0%)	89	94
1	P	450/449 (100%)	448 (100%)	2 (0%)	89	94
1	Q	450/449 (100%)	448 (100%)	2 (0%)	89	94
1	R	450/449 (100%)	448 (100%)	2 (0%)	89	94

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
1	S	450/449 (100%)	448 (100%)	2 (0%)	89	94
1	T	450/449 (100%)	448 (100%)	2 (0%)	89	94
1	U	450/449 (100%)	448 (100%)	2 (0%)	89	94
1	V	450/449 (100%)	448 (100%)	2 (0%)	89	94
1	W	450/449 (100%)	448 (100%)	2 (0%)	89	94
1	X	450/449 (100%)	448 (100%)	2 (0%)	89	94
1	Y	450/449 (100%)	448 (100%)	2 (0%)	89	94
1	Z	450/449 (100%)	448 (100%)	2 (0%)	89	94
1	a	450/449 (100%)	448 (100%)	2 (0%)	89	94
1	b	450/449 (100%)	448 (100%)	2 (0%)	89	94
1	c	450/449 (100%)	448 (100%)	2 (0%)	89	94
1	d	450/449 (100%)	448 (100%)	2 (0%)	89	94
1	e	450/449 (100%)	448 (100%)	2 (0%)	89	94
1	f	450/449 (100%)	448 (100%)	2 (0%)	89	94
1	g	450/449 (100%)	448 (100%)	2 (0%)	89	94
1	h	450/449 (100%)	448 (100%)	2 (0%)	89	94
1	i	450/449 (100%)	448 (100%)	2 (0%)	89	94
1	j	450/449 (100%)	448 (100%)	2 (0%)	89	94
1	k	450/449 (100%)	448 (100%)	2 (0%)	89	94
1	l	450/449 (100%)	448 (100%)	2 (0%)	89	94
1	m	450/449 (100%)	448 (100%)	2 (0%)	89	94
1	n	450/449 (100%)	448 (100%)	2 (0%)	89	94
1	o	450/449 (100%)	448 (100%)	2 (0%)	89	94
1	p	450/449 (100%)	448 (100%)	2 (0%)	89	94
1	q	450/449 (100%)	448 (100%)	2 (0%)	89	94
1	r	450/449 (100%)	448 (100%)	2 (0%)	89	94
1	s	450/449 (100%)	448 (100%)	2 (0%)	89	94
1	t	450/449 (100%)	448 (100%)	2 (0%)	89	94
1	u	450/449 (100%)	448 (100%)	2 (0%)	89	94
1	v	450/449 (100%)	448 (100%)	2 (0%)	89	94
1	w	450/449 (100%)	448 (100%)	2 (0%)	89	94

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
1	x	450/449 (100%)	448 (100%)	2 (0%)	89	94
1	y	450/449 (100%)	448 (100%)	2 (0%)	89	94
1	z	450/449 (100%)	448 (100%)	2 (0%)	89	94
All	All	27000/26940 (100%)	26880 (100%)	120 (0%)	88	94

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.

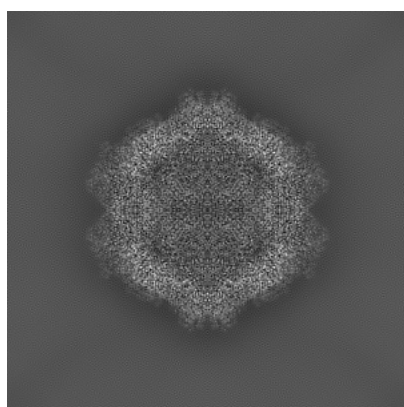
6 Map visualisation [i](#)

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.

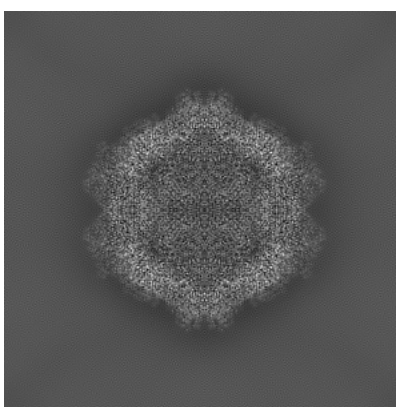
No raw map or half-maps were deposited for this entry and therefore no images, graphs, etc. pertaining to the raw map can be shown.

6.1 Orthogonal projections [i](#)

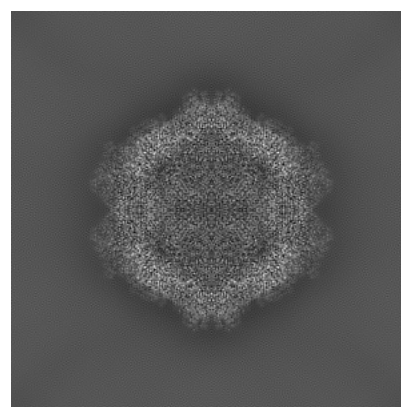
6.1.1 Primary map



X



Y

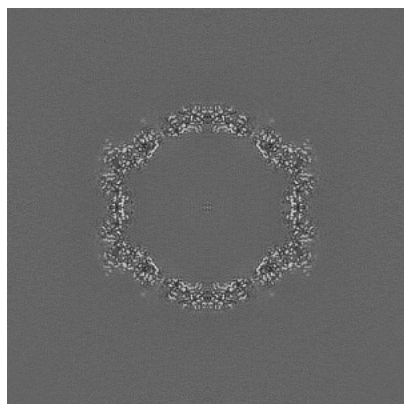


Z

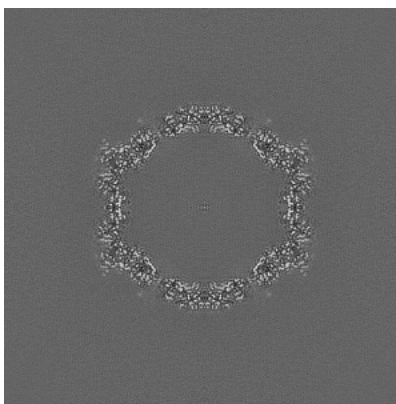
The images above show the map projected in three orthogonal directions.

6.2 Central slices [i](#)

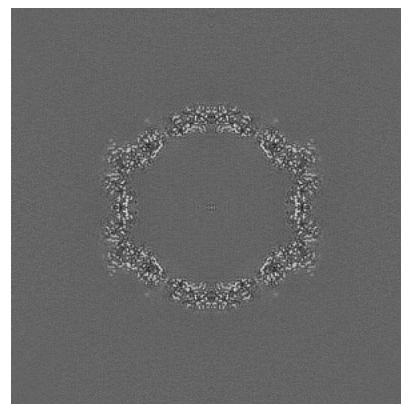
6.2.1 Primary map



X Index: 210



Y Index: 210

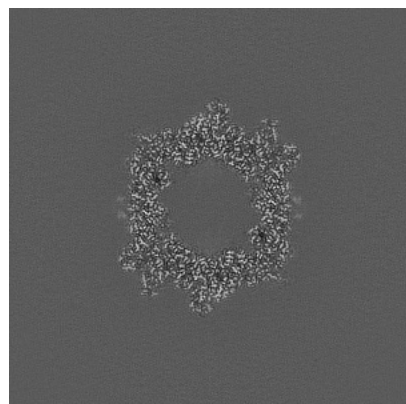


Z Index: 210

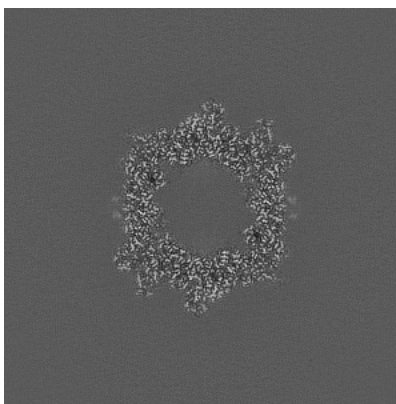
The images above show central slices of the map in three orthogonal directions.

6.3 Largest variance slices [i](#)

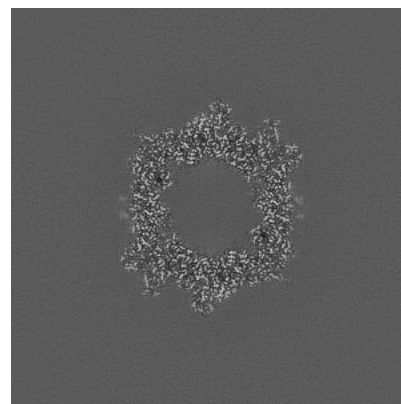
6.3.1 Primary map



X Index: 272



Y Index: 272

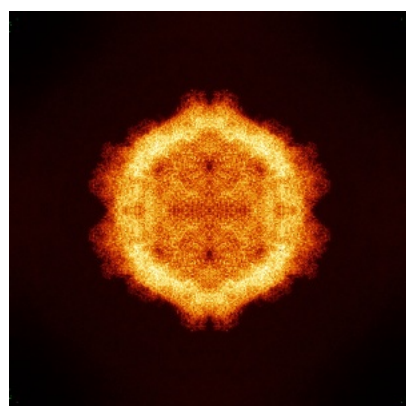


Z Index: 272

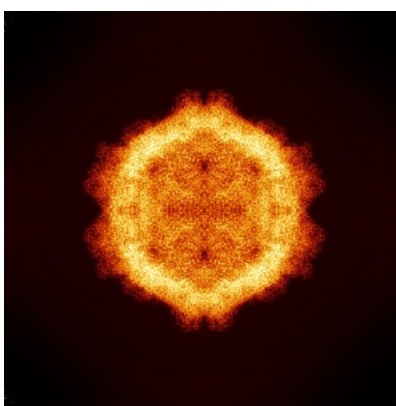
The images above show the largest variance slices of the map in three orthogonal directions.

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

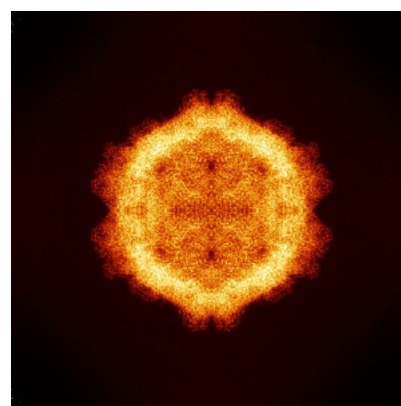
6.4.1 Primary map



X



Y

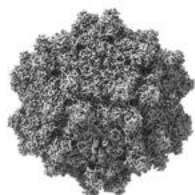


Z

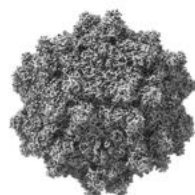
The images above show the map standard deviation projections with false color in three orthogonal directions. Minimum values are shown in green, max in blue, and dark to light orange shades represent small to large values respectively.

6.5 Orthogonal surface views [i](#)

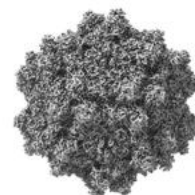
6.5.1 Primary map



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.

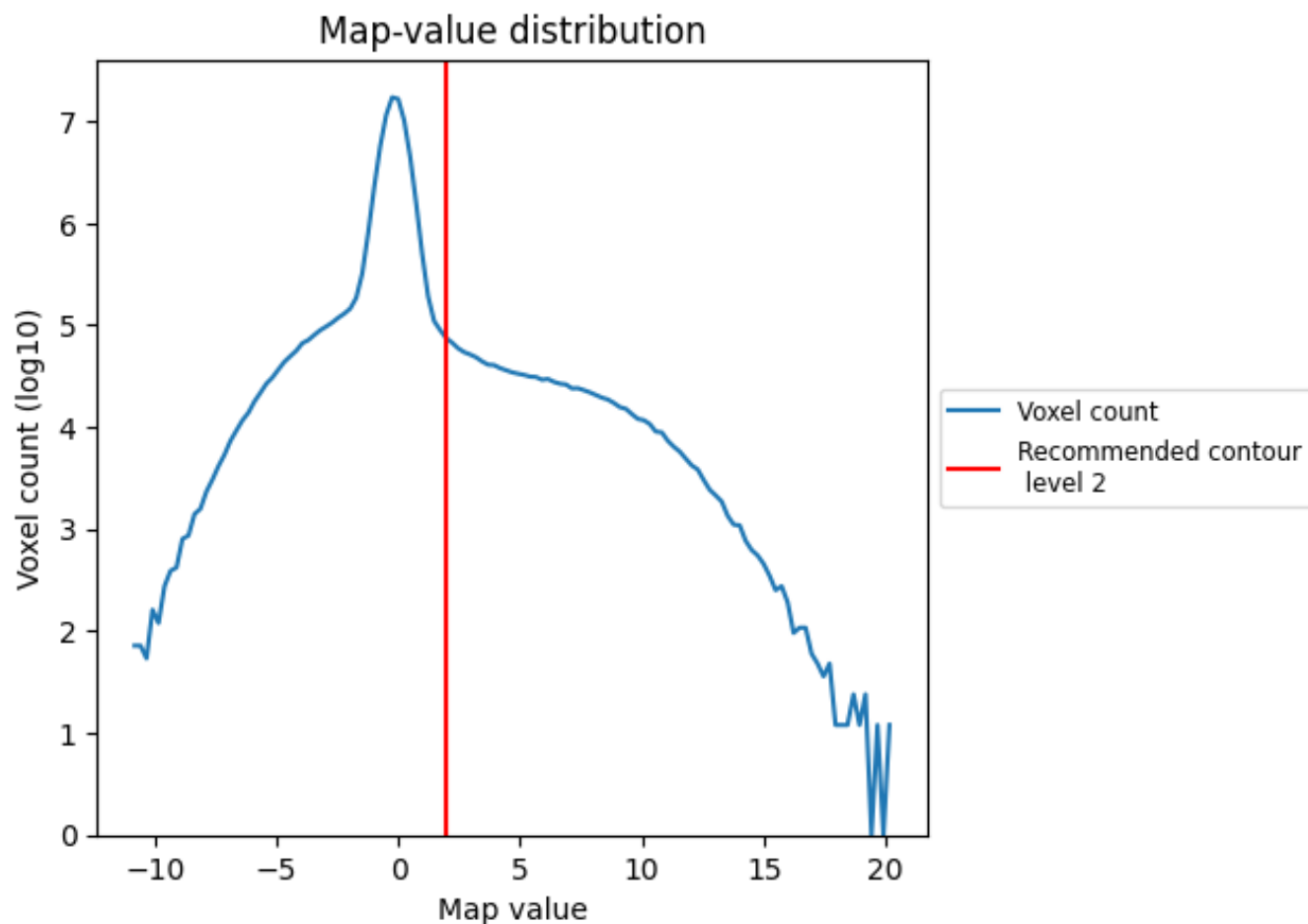
6.6 Mask visualisation [i](#)

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

7 Map analysis [i](#)

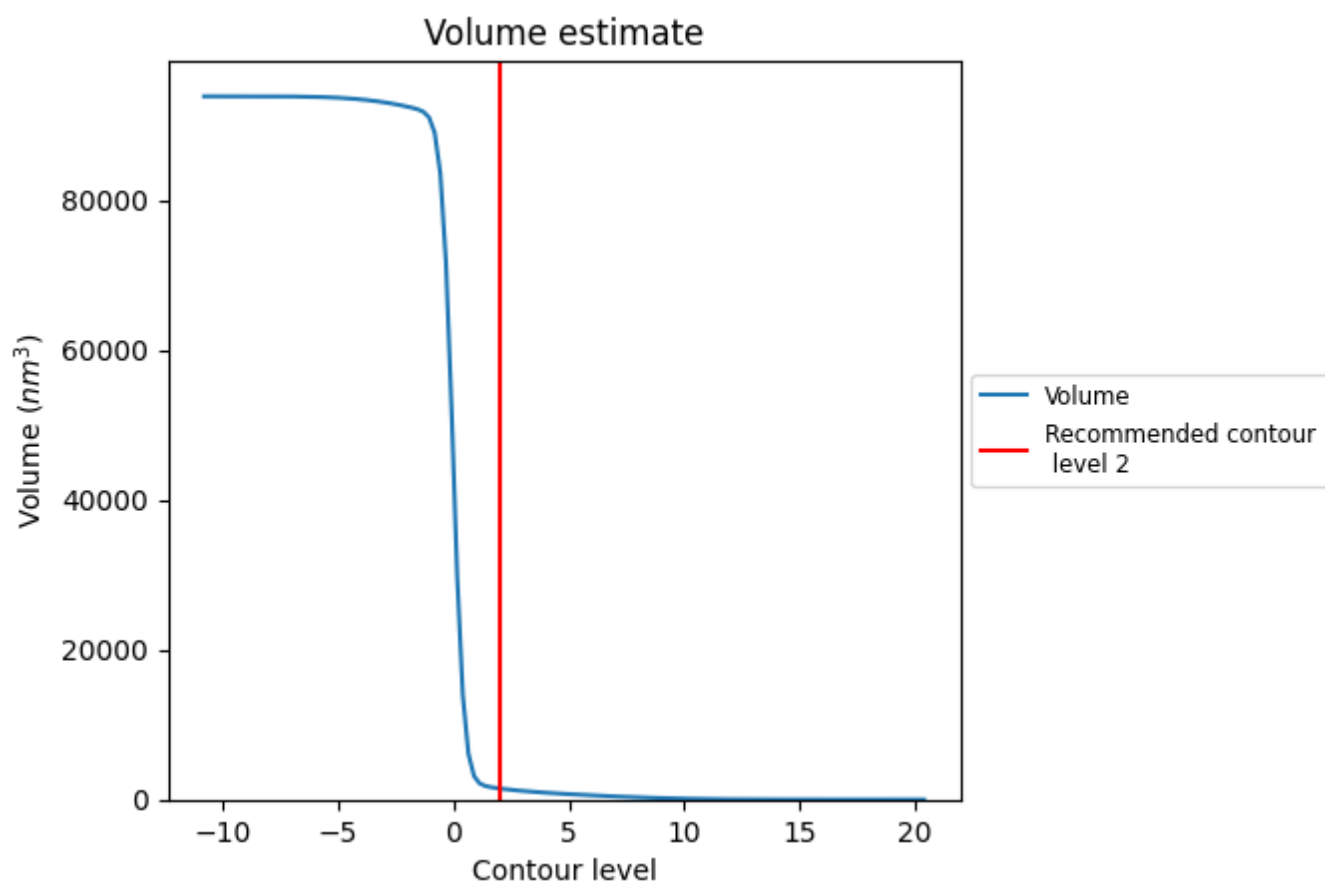
This section contains the results of statistical analysis of the map.

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.

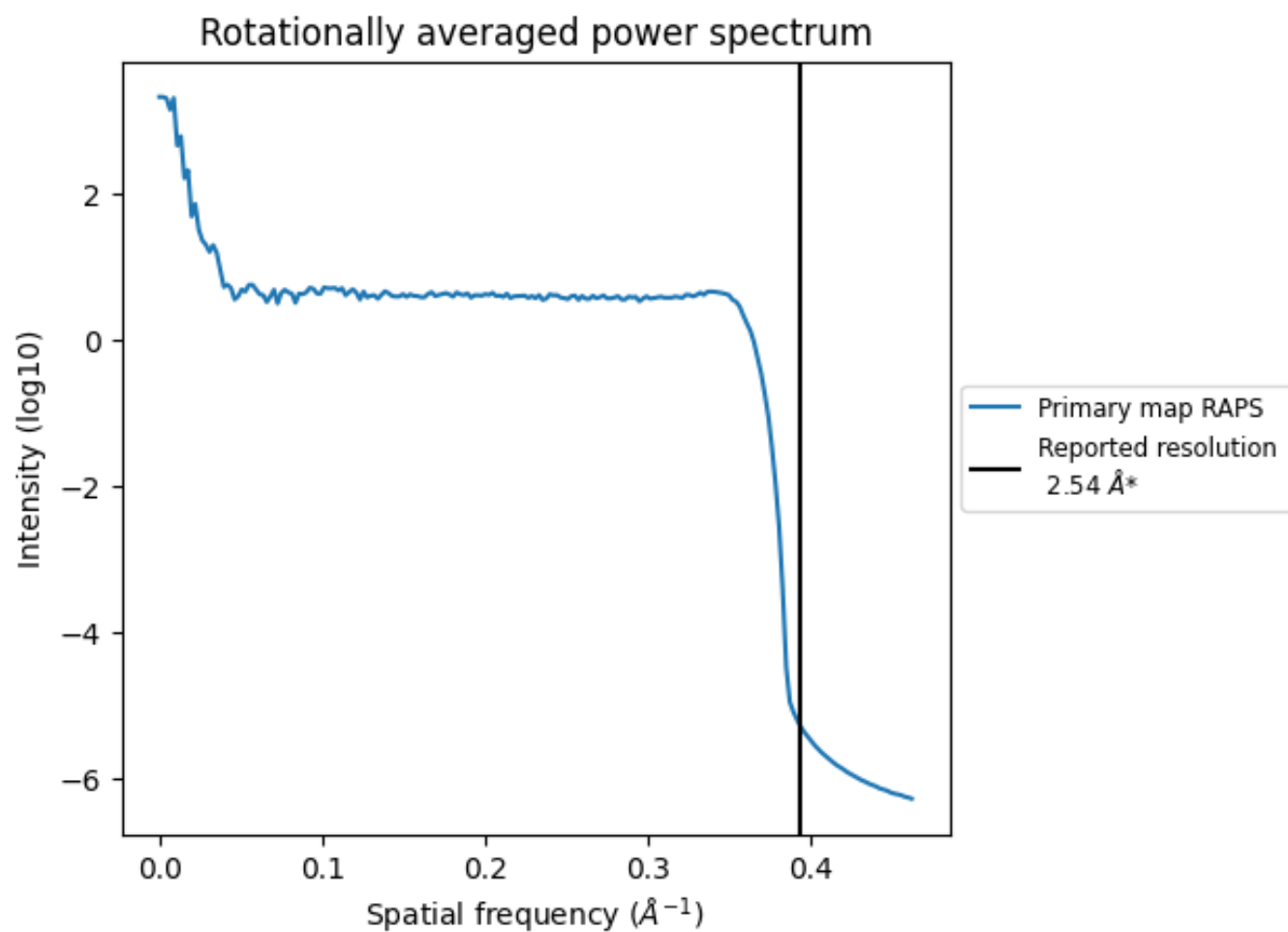
7.2 Volume estimate [i](#)



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

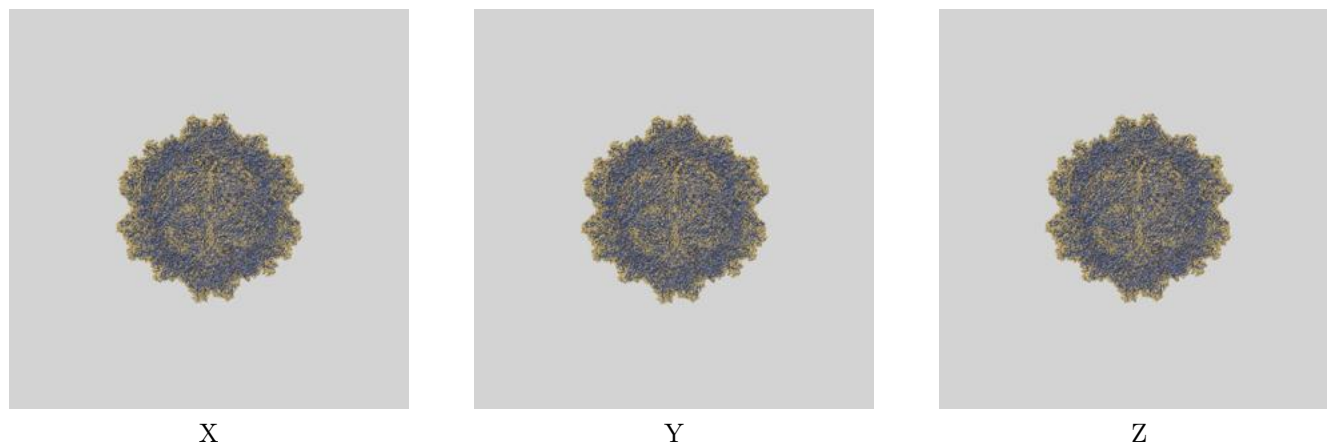
8 Fourier-Shell correlation

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

9 Map-model fit [i](#)

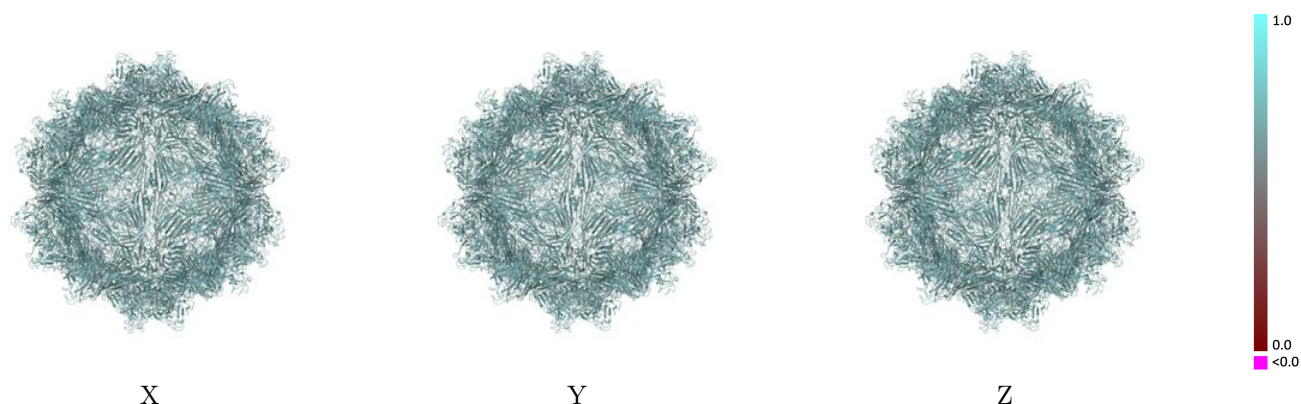
This section contains information regarding the fit between EMDB map EMD-23201 and PDB model 7L6B. Per-residue inclusion information can be found in section [3](#) on page [10](#).

9.1 Map-model overlay [i](#)



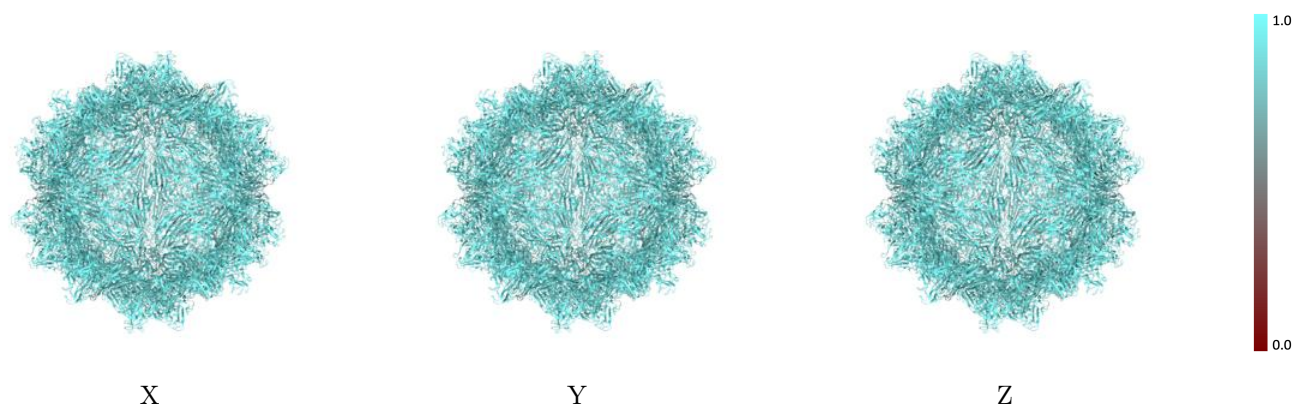
The images above show the 3D surface view of the map at the recommended contour level 2.0 at 50% transparency in yellow overlaid with a ribbon representation of the model coloured in blue. These images allow for the visual assessment of the quality of fit between the atomic model and the map.

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



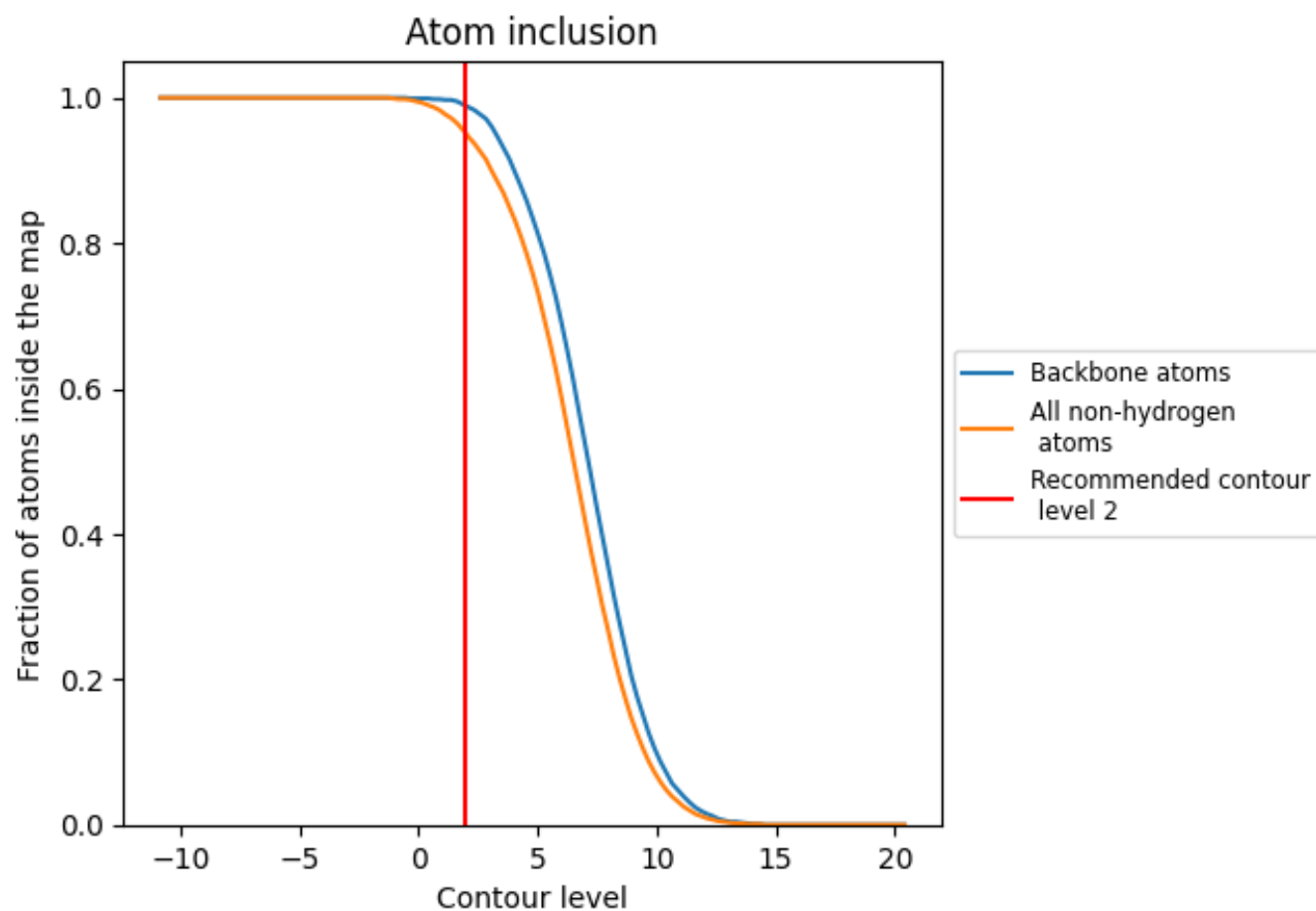
The images above show the model with each residue coloured according to its Q-score. This shows their resolvability in the map with higher Q-score values reflecting better resolvability. Please note: Q-score is calculating the resolvability of atoms, and thus high values are only expected at resolutions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