Full wwPDB EM Validation Report ⓘ

Mar 25, 2026 – 04:00 PM UTC

PDB ID	:	7LNK / pdb_00007lnk
EMDB ID	:	EMD-23460
Title	:	Gorilla Bocavirus 1 Capsid
Authors	:	Yu, J.C.; Mietzsch, M.; Agbandje-McKenna, M.
Deposited on	:	2021-02-07
Resolution	:	2.76 Å(reported)

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

We welcome your comments at *validation@mail.wwpdb.org*
A user guide is available at
https://www.wwpdb.org/validation/2017/EMValidationReportHelp
with specific help available everywhere you see the ⓘ symbol.

The types of validation reports are described at
http://www.wwpdb.org/validation/2017/FAQs#types.

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

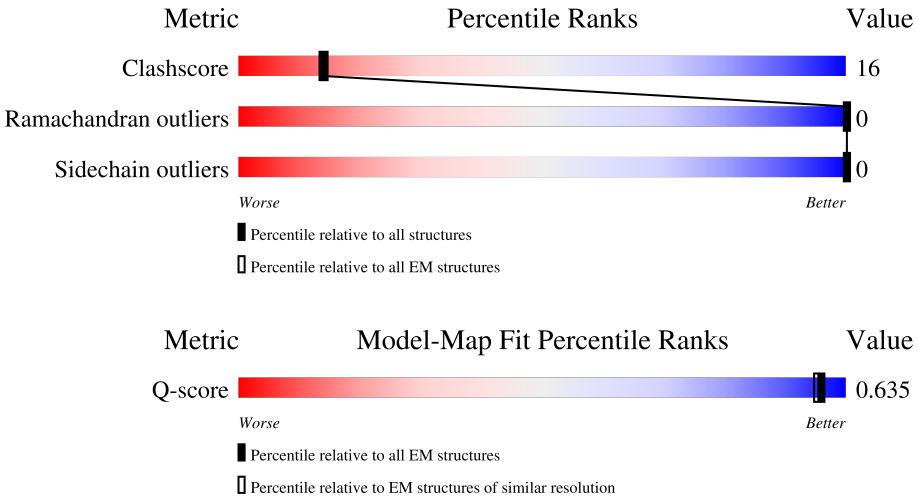
EMDB validation analysis	:	0.0.1.dev132
MolProbity	:	4-5-2 with Phenix2.0
Percentile statistics	:	20250101.v01 (using entries in the PDB archive January 1st 2025)
EM percentile statistics	:	202505.v01 (Using data in the EMDB archive up until May 2025)
MapQ	:	1.9.13
Ideal geometry (proteins)	:	Engh &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

1 Overall quality at a glance

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

The reported resolution of this entry is 2.76 Å.

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



Metric	Whole archive (#Entries)	EM structures (#Entries)	Similar EM resolution (#Entries, resolution range(Å))
Clashscore	229148	23984	-
Ramachandran outliers	224038	23583	-
Sidechain outliers	223484	23102	-
Q-score	-	25397	10642 (2.26 - 3.26)

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 <=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	510	66% 34%
1	2	510	66% 34%
1	3	510	67% 33%
1	4	510	66% 34%

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Mol	Chain	Length	Quality of chain
1	5	510	65% 35%
1	6	510	66% 34%
1	7	510	66% 34%
1	8	510	66% 34%
1	A	510	66% 34%
1	B	510	66% 34%
1	C	510	66% 34%
1	D	510	66% 34%
1	E	510	66% 34%
1	F	510	65% 35%
1	G	510	66% 34%
1	H	510	65% 35%
1	I	510	66% 34%
1	J	510	66% 34%
1	K	510	66% 34%
1	L	510	66% 34%
1	M	510	65% 35%
1	N	510	66% 34%
1	O	510	65% 35%
1	P	510	66% 34%
1	Q	510	65% 35%
1	R	510	67% 33%
1	S	510	66% 34%
1	T	510	66% 34%
1	U	510	65% 35%

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Mol	Chain	Length	Quality of chain
1	V	510	66% 34%
1	W	510	65% 35%
1	X	510	66% 34%
1	Y	510	66% 34%
1	Z	510	66% 34%
1	a	510	66% 34%
1	b	510	66% 34%
1	c	510	66% 34%
1	d	510	66% 34%
1	e	510	66% 34%
1	f	510	66% 34%
1	g	510	66% 34%
1	h	510	66% 34%
1	i	510	66% 34%
1	j	510	66% 34%
1	k	510	66% 34%
1	l	510	66% 34%
1	m	510	66% 34%
1	n	510	66% 34%
1	o	510	66% 34%
1	p	510	66% 34%
1	q	510	66% 34%
1	r	510	66% 34%
1	s	510	66% 34%
1	t	510	66% 34%

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Mol	Chain	Length	Quality of chain
1	u	510	
1	v	510	
1	w	510	
1	x	510	
1	y	510	
1	z	510	

2 Entry composition (i)

There is only 1 type of molecule in this entry. The entry contains 243540 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 Capsid protein.

Mol	Chain	Residues	Atoms					AltConf	Trace
1	A	510	Total 4059	C 2575	N 691	O 771	S 22	1	0
1	B	510	Total 4059	C 2575	N 691	O 771	S 22	1	0
1	C	510	Total 4059	C 2575	N 691	O 771	S 22	1	0
1	D	510	Total 4059	C 2575	N 691	O 771	S 22	1	0
1	E	510	Total 4059	C 2575	N 691	O 771	S 22	1	0
1	F	510	Total 4059	C 2575	N 691	O 771	S 22	1	0
1	G	510	Total 4059	C 2575	N 691	O 771	S 22	1	0
1	H	510	Total 4059	C 2575	N 691	O 771	S 22	1	0
1	I	510	Total 4059	C 2575	N 691	O 771	S 22	1	0
1	J	510	Total 4059	C 2575	N 691	O 771	S 22	1	0
1	K	510	Total 4059	C 2575	N 691	O 771	S 22	1	0
1	L	510	Total 4059	C 2575	N 691	O 771	S 22	1	0
1	M	510	Total 4059	C 2575	N 691	O 771	S 22	1	0
1	N	510	Total 4059	C 2575	N 691	O 771	S 22	1	0
1	O	510	Total 4059	C 2575	N 691	O 771	S 22	1	0
1	P	510	Total 4059	C 2575	N 691	O 771	S 22	1	0
1	Q	510	Total 4059	C 2575	N 691	O 771	S 22	1	0

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Mol	Chain	Residues	Atoms					AltConf	Trace
1	R	510	Total	C	N	O	S	1	0
			4059	2575	691	771	22		
1	S	510	Total	C	N	O	S	1	0
			4059	2575	691	771	22		
1	T	510	Total	C	N	O	S	1	0
			4059	2575	691	771	22		
1	U	510	Total	C	N	O	S	1	0
			4059	2575	691	771	22		
1	V	510	Total	C	N	O	S	1	0
			4059	2575	691	771	22		
1	W	510	Total	C	N	O	S	1	0
			4059	2575	691	771	22		
1	X	510	Total	C	N	O	S	1	0
			4059	2575	691	771	22		
1	Y	510	Total	C	N	O	S	1	0
			4059	2575	691	771	22		
1	Z	510	Total	C	N	O	S	1	0
			4059	2575	691	771	22		
1	a	510	Total	C	N	O	S	1	0
			4059	2575	691	771	22		
1	b	510	Total	C	N	O	S	1	0
			4059	2575	691	771	22		
1	c	510	Total	C	N	O	S	1	0
			4059	2575	691	771	22		
1	d	510	Total	C	N	O	S	1	0
			4059	2575	691	771	22		
1	e	510	Total	C	N	O	S	1	0
			4059	2575	691	771	22		
1	f	510	Total	C	N	O	S	1	0
			4059	2575	691	771	22		
1	g	510	Total	C	N	O	S	1	0
			4059	2575	691	771	22		
1	h	510	Total	C	N	O	S	1	0
			4059	2575	691	771	22		
1	i	510	Total	C	N	O	S	1	0
			4059	2575	691	771	22		
1	j	510	Total	C	N	O	S	1	0
			4059	2575	691	771	22		
1	k	510	Total	C	N	O	S	1	0
			4059	2575	691	771	22		
1	l	510	Total	C	N	O	S	1	0
			4059	2575	691	771	22		

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Mol	Chain	Residues	Atoms					AltConf	Trace
1	m	510	Total	C	N	O	S	1	0
			4059	2575	691	771	22		
1	n	510	Total	C	N	O	S	1	0
			4059	2575	691	771	22		
1	o	510	Total	C	N	O	S	1	0
			4059	2575	691	771	22		
1	p	510	Total	C	N	O	S	1	0
			4059	2575	691	771	22		
1	q	510	Total	C	N	O	S	1	0
			4059	2575	691	771	22		
1	r	510	Total	C	N	O	S	1	0
			4059	2575	691	771	22		
1	s	510	Total	C	N	O	S	1	0
			4059	2575	691	771	22		
1	t	510	Total	C	N	O	S	1	0
			4059	2575	691	771	22		
1	u	510	Total	C	N	O	S	1	0
			4059	2575	691	771	22		
1	v	510	Total	C	N	O	S	1	0
			4059	2575	691	771	22		
1	w	510	Total	C	N	O	S	1	0
			4059	2575	691	771	22		
1	x	510	Total	C	N	O	S	1	0
			4059	2575	691	771	22		
1	y	510	Total	C	N	O	S	1	0
			4059	2575	691	771	22		
1	z	510	Total	C	N	O	S	1	0
			4059	2575	691	771	22		
1	1	510	Total	C	N	O	S	1	0
			4059	2575	691	771	22		
1	2	510	Total	C	N	O	S	1	0
			4059	2575	691	771	22		
1	3	510	Total	C	N	O	S	1	0
			4059	2575	691	771	22		
1	4	510	Total	C	N	O	S	1	0
			4059	2575	691	771	22		
1	5	510	Total	C	N	O	S	1	0
			4059	2575	691	771	22		
1	6	510	Total	C	N	O	S	1	0
			4059	2575	691	771	22		
1	7	510	Total	C	N	O	S	1	0
			4059	2575	691	771	22		

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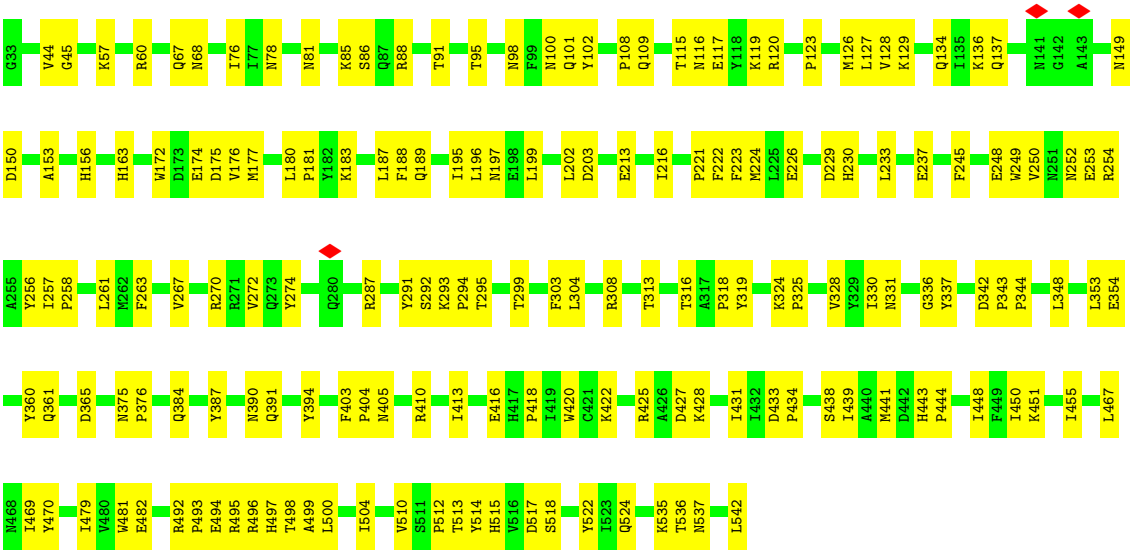
Mol	Chain	Residues	Atoms					AltConf	Trace
1	8	510	Total	C	N	O	S	1	0
			4059	2575	691	771	22		

3 Residue-property plots (i)

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.

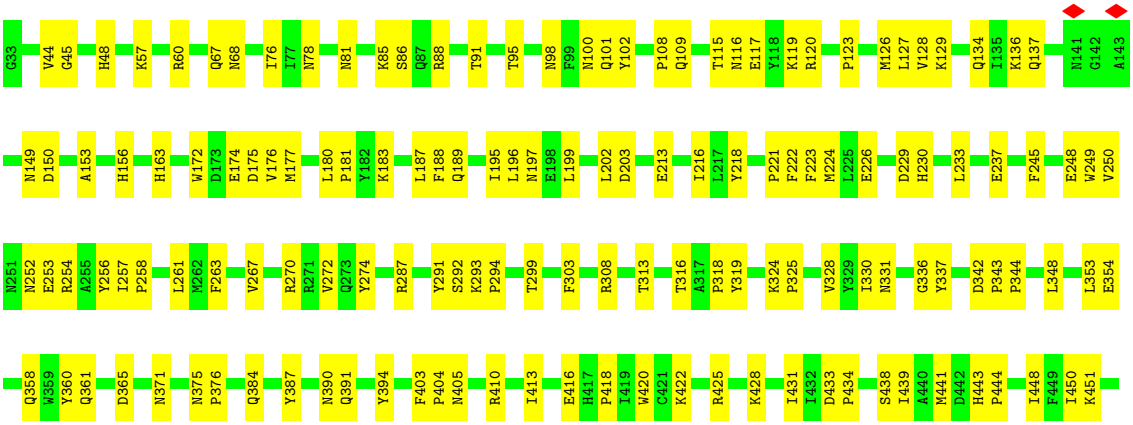
• Molecule 1: Capsid protein

Chain A:



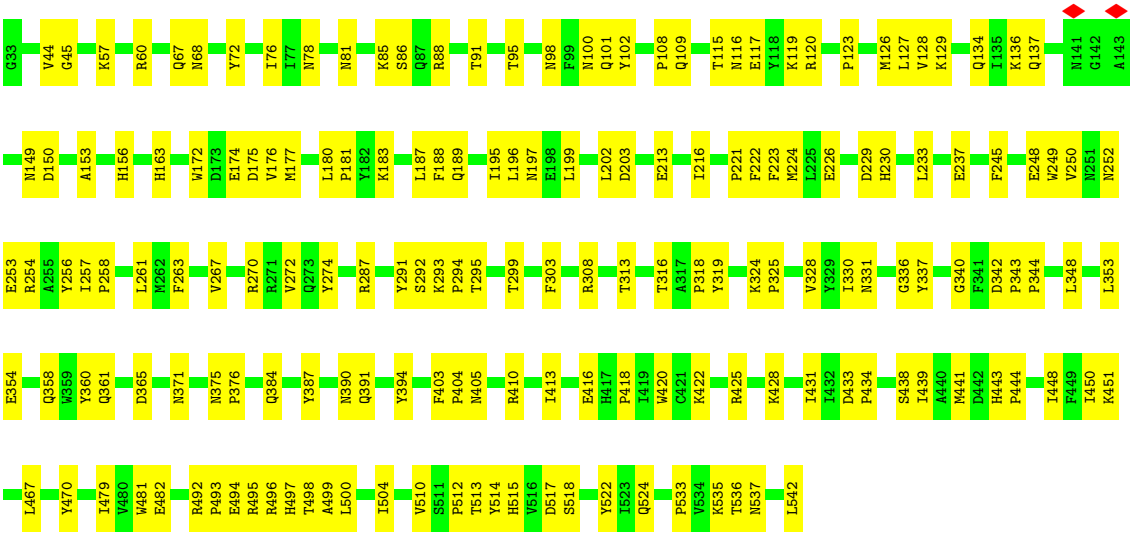
• Molecule 1: Capsid protein

Chain B:



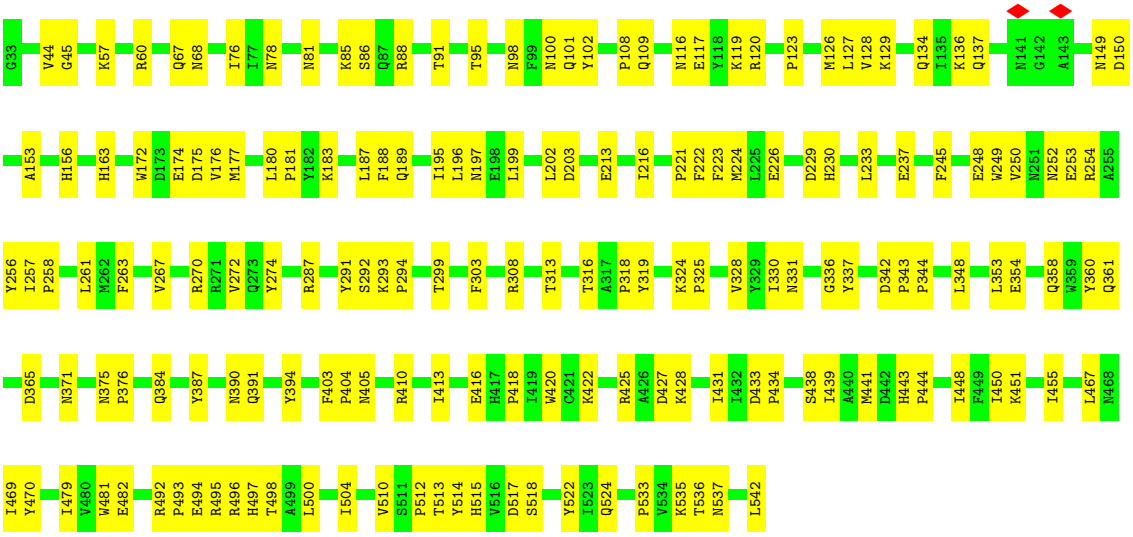
• Molecule 1: Capsid protein

Chain C:



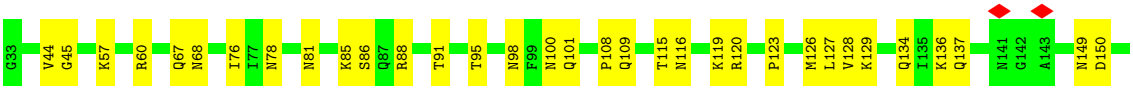
• Molecule 1: Capsid protein

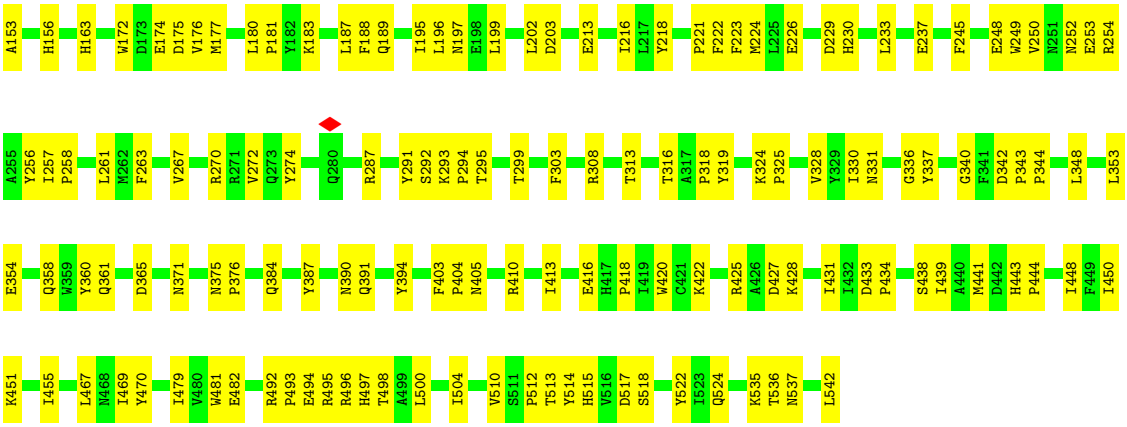
Chain D:



• Molecule 1: Capsid protein

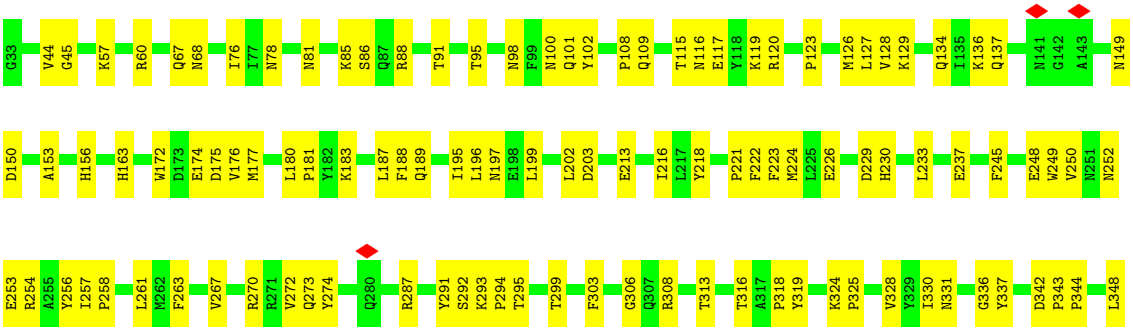
Chain E:





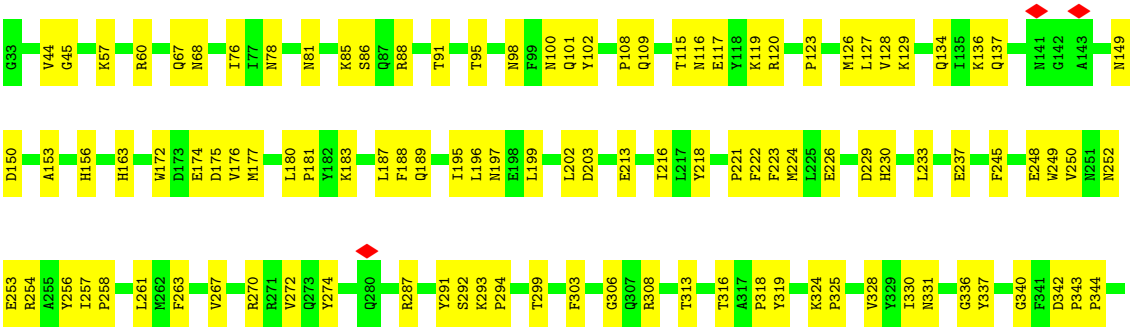
• Molecule 1: Capsid protein

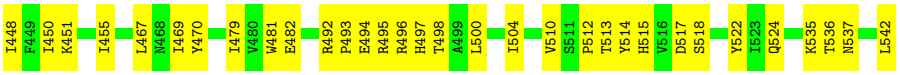
Chain F:



• Molecule 1: Capsid protein

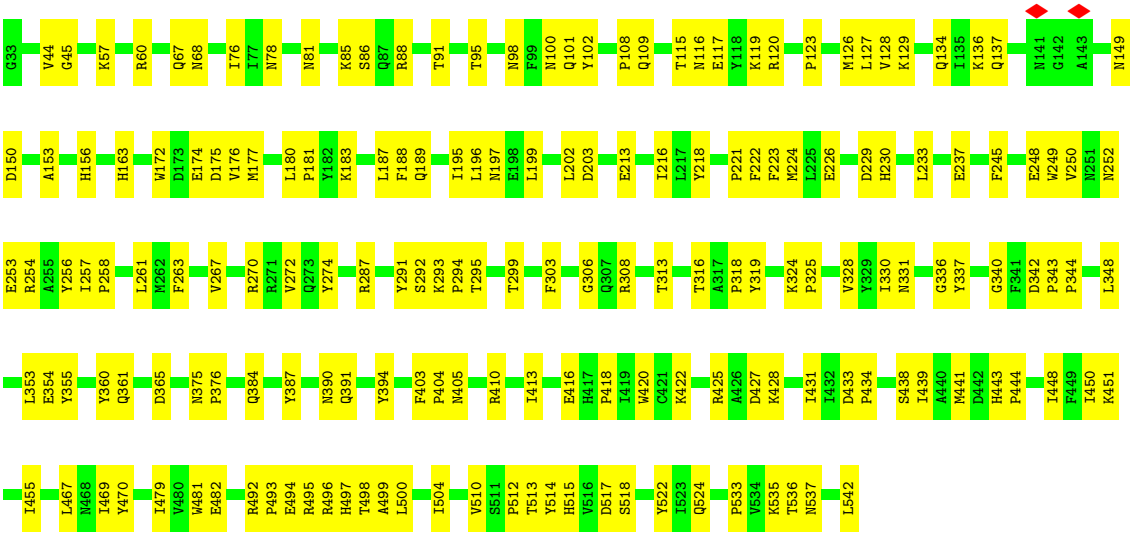
Chain G:





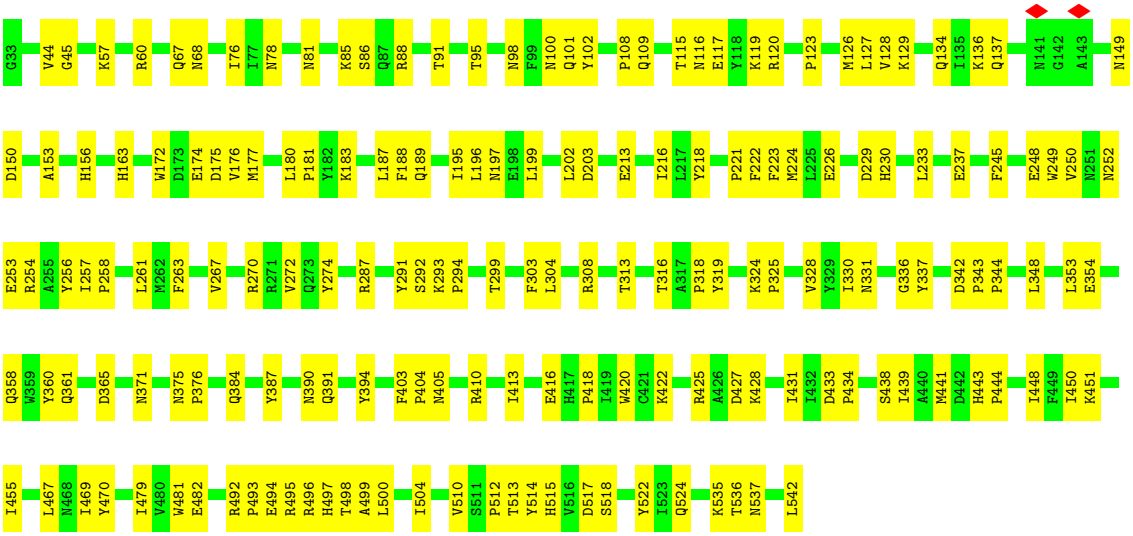
• Molecule 1: Capsid protein

Chain H:



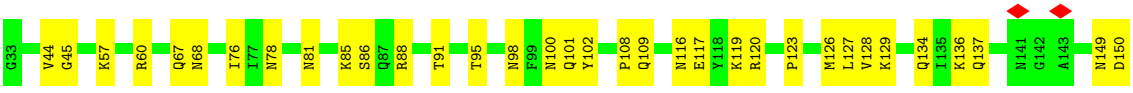
• Molecule 1: Capsid protein

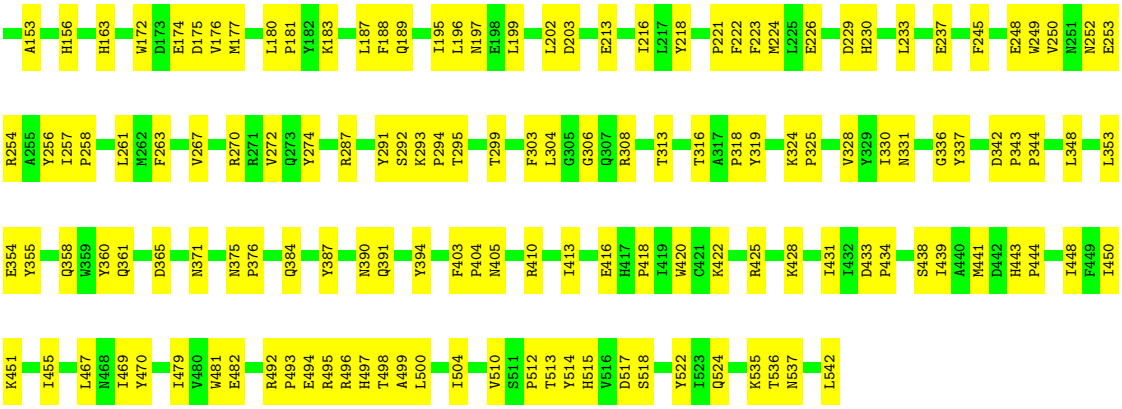
Chain I:



• Molecule 1: Capsid protein

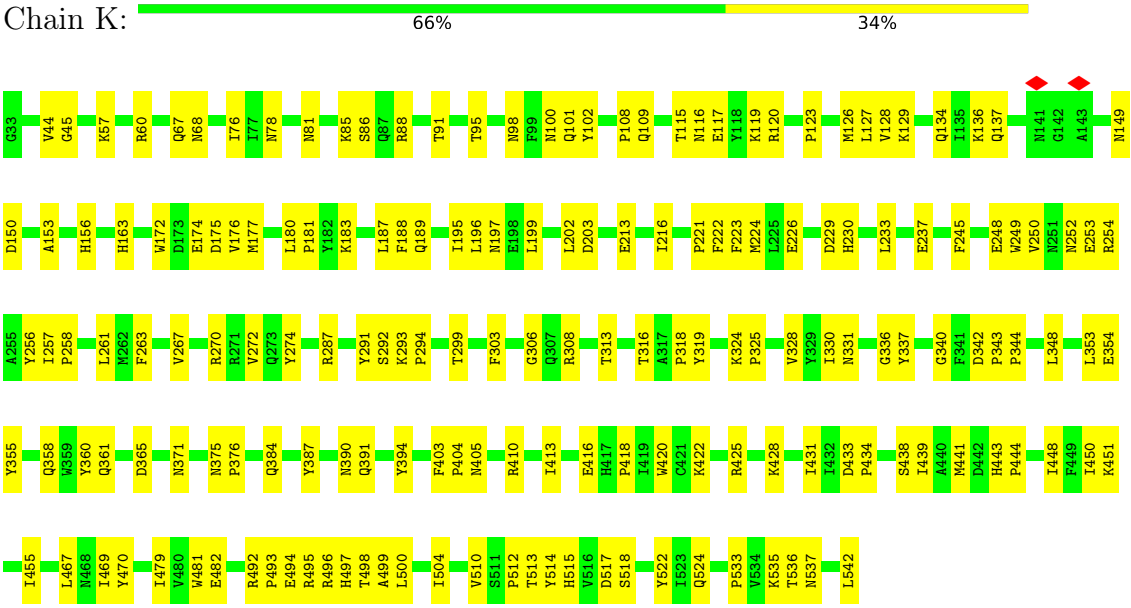
Chain J:





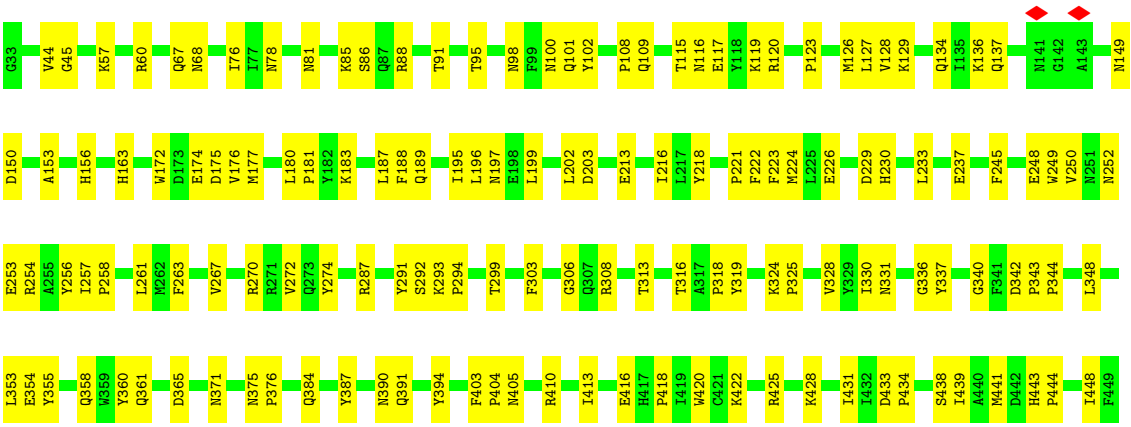
• Molecule 1: Capsid protein

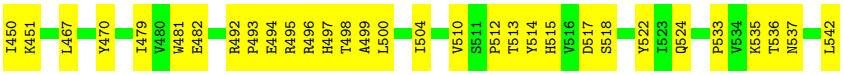
Chain K:



• Molecule 1: Capsid protein

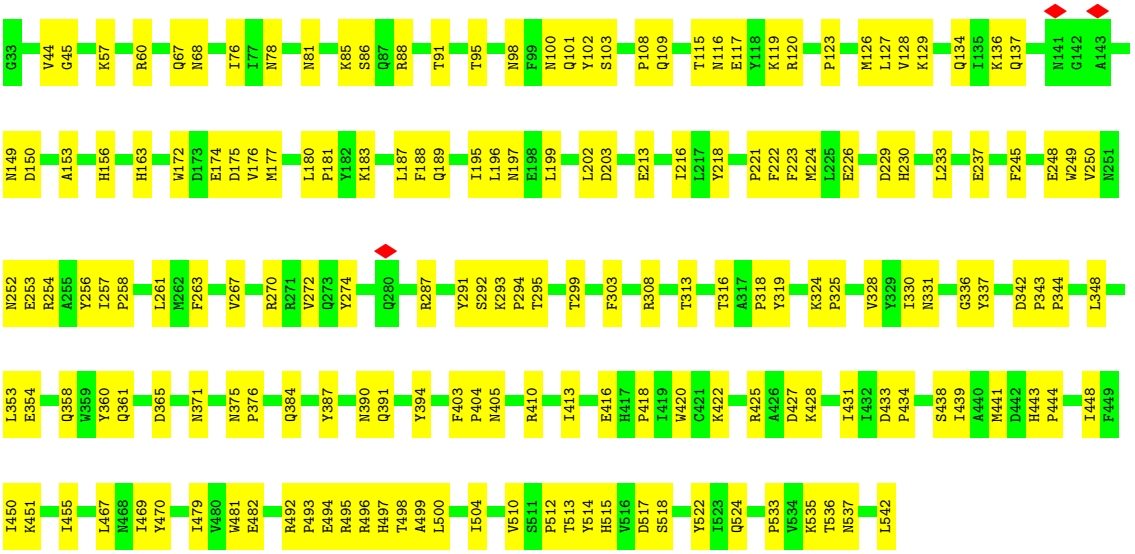
Chain L:





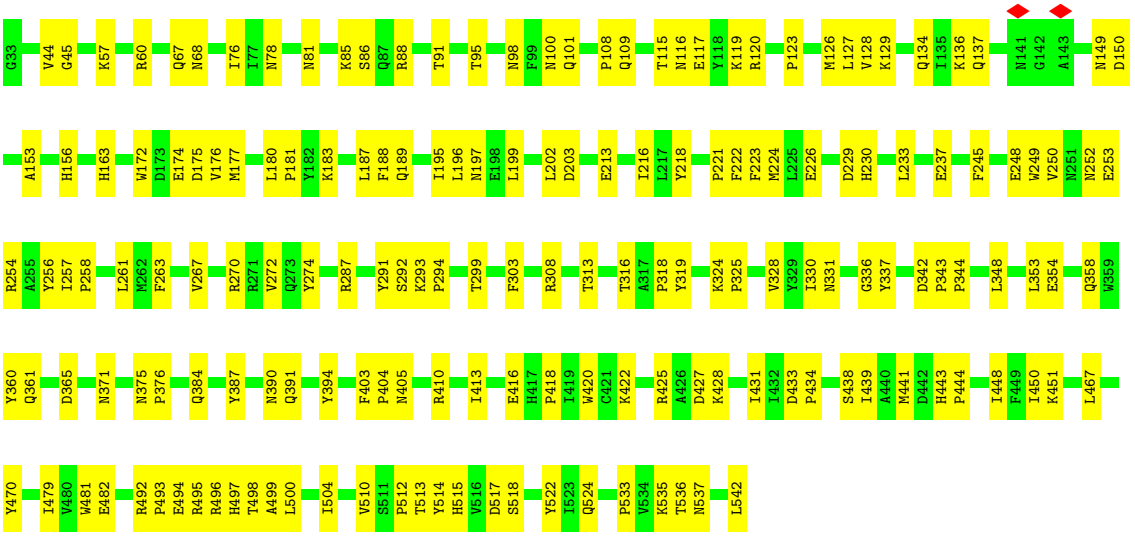
• Molecule 1: Capsid protein

Chain M:



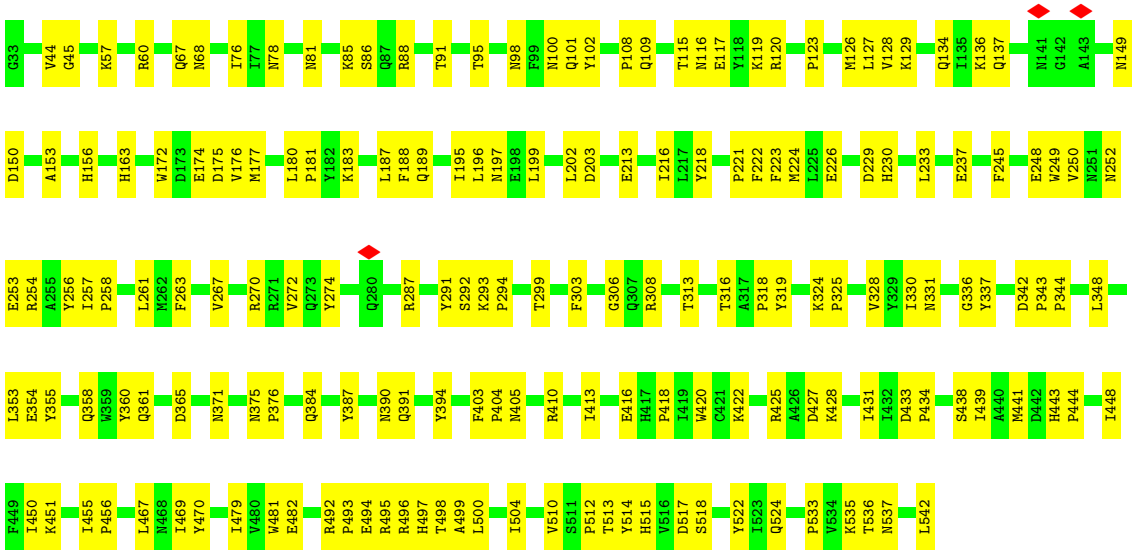
• Molecule 1: Capsid protein

Chain N:



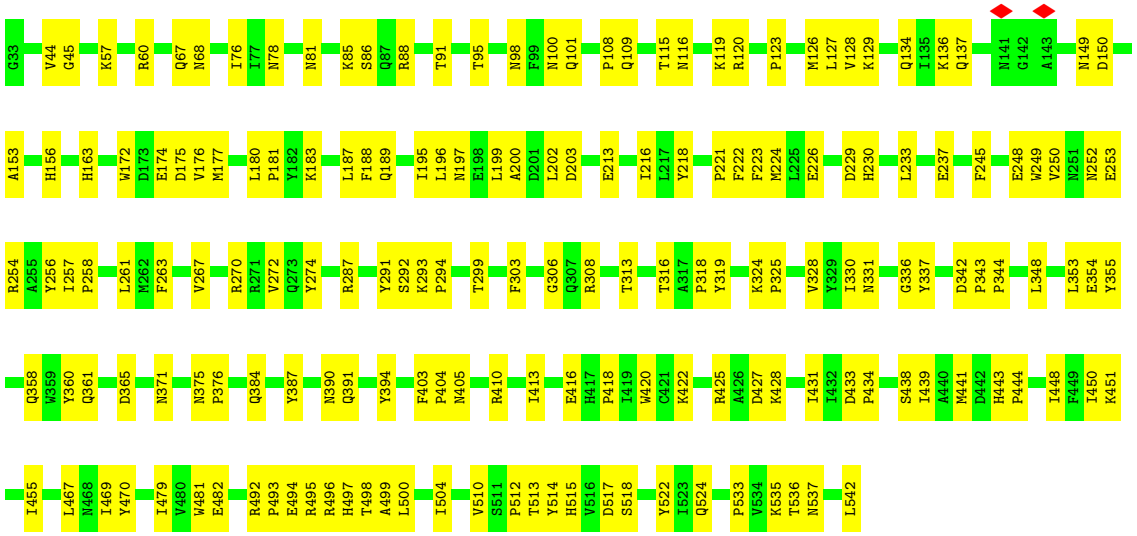
• Molecule 1: Capsid protein

Chain O:



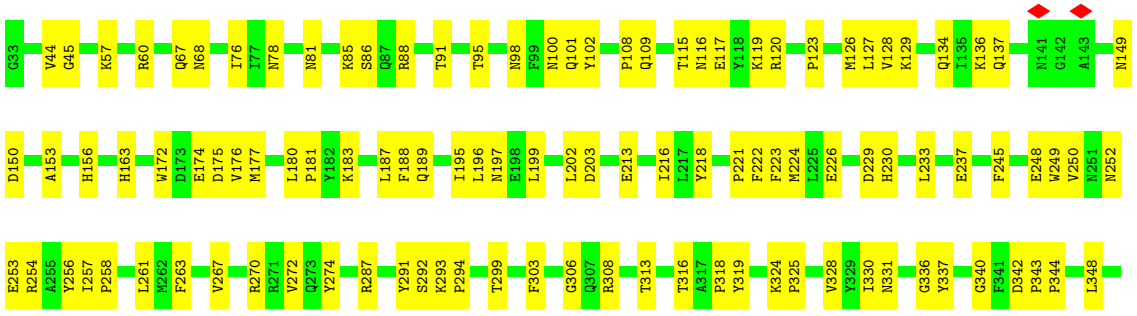
• Molecule 1: Capsid protein

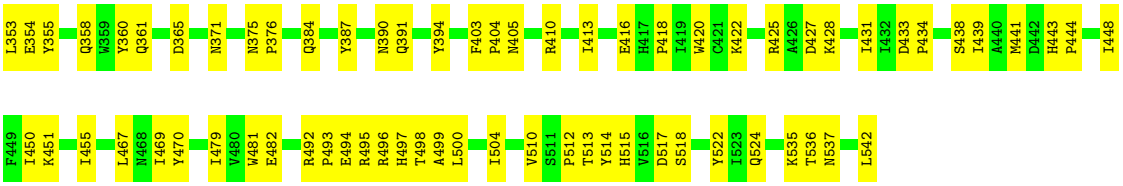
Chain P:



• Molecule 1: Capsid protein

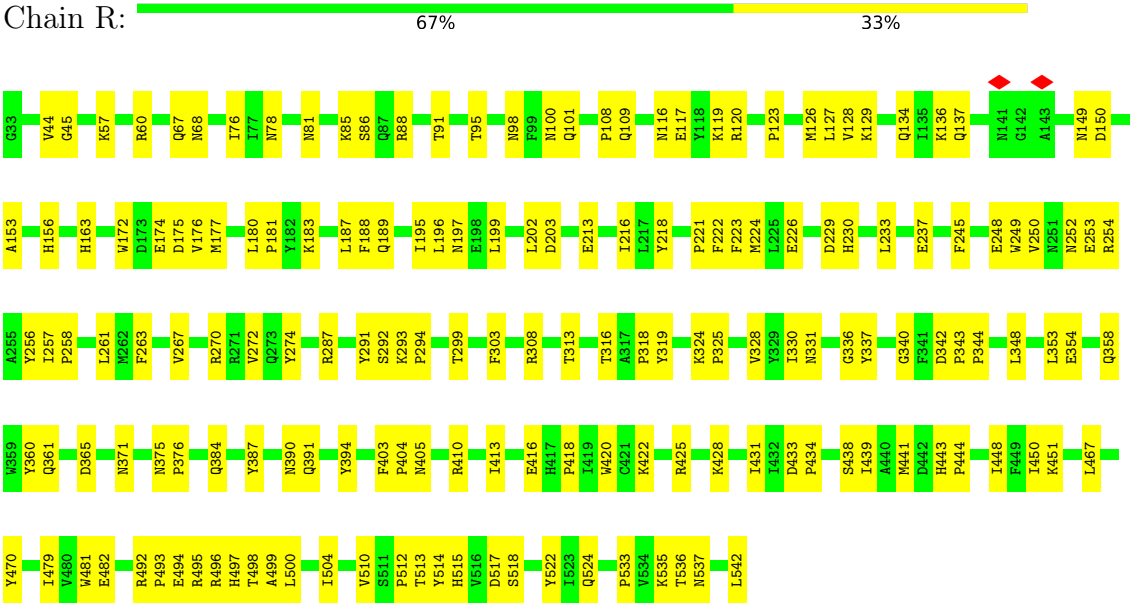
Chain Q:





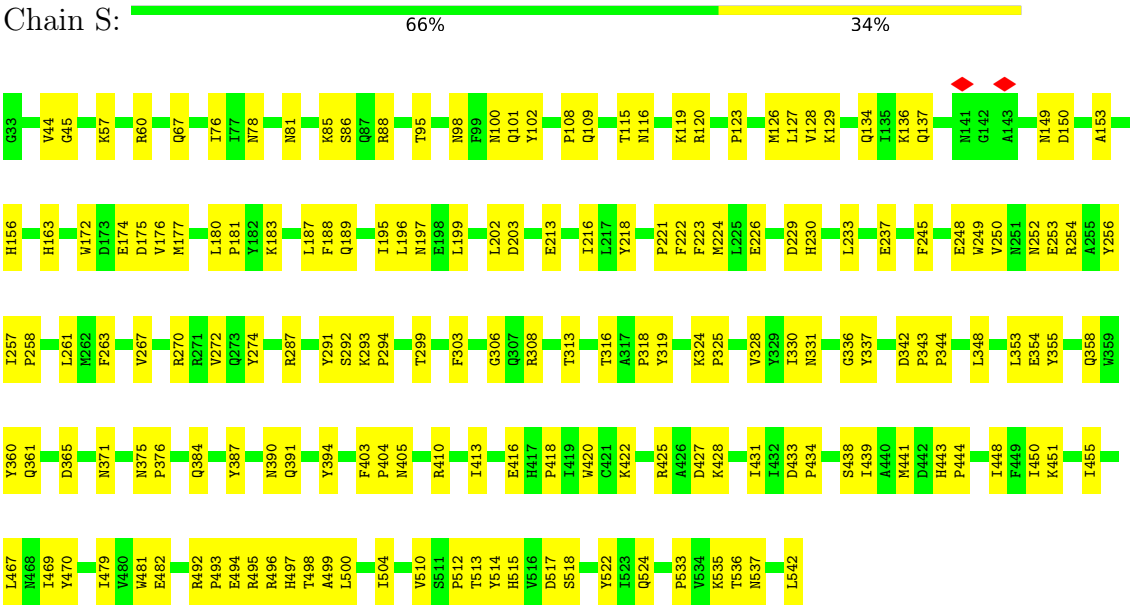
• Molecule 1: Capsid protein

Chain R:



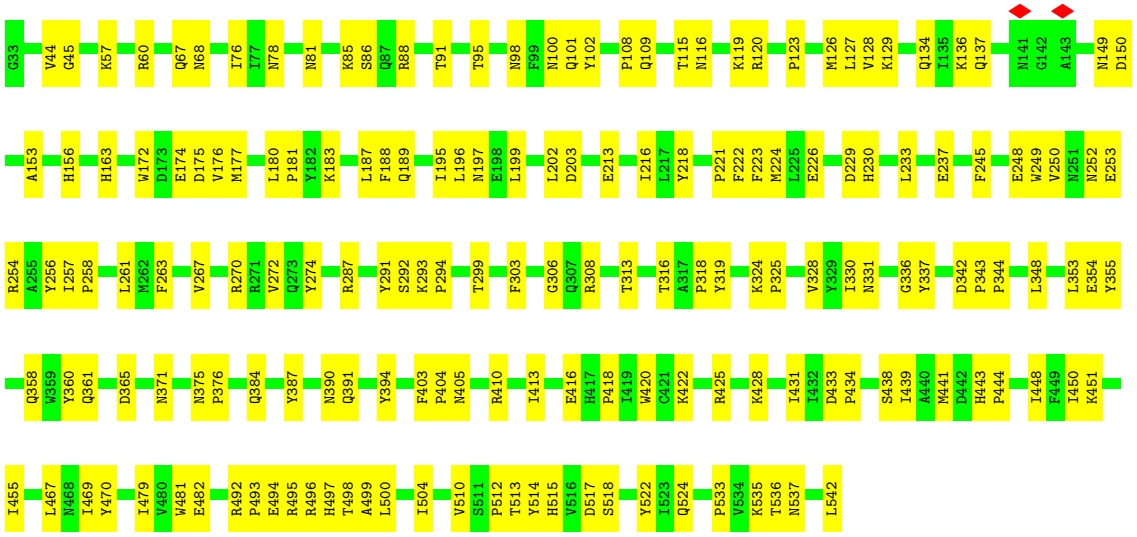
• Molecule 1: Capsid protein

Chain S:



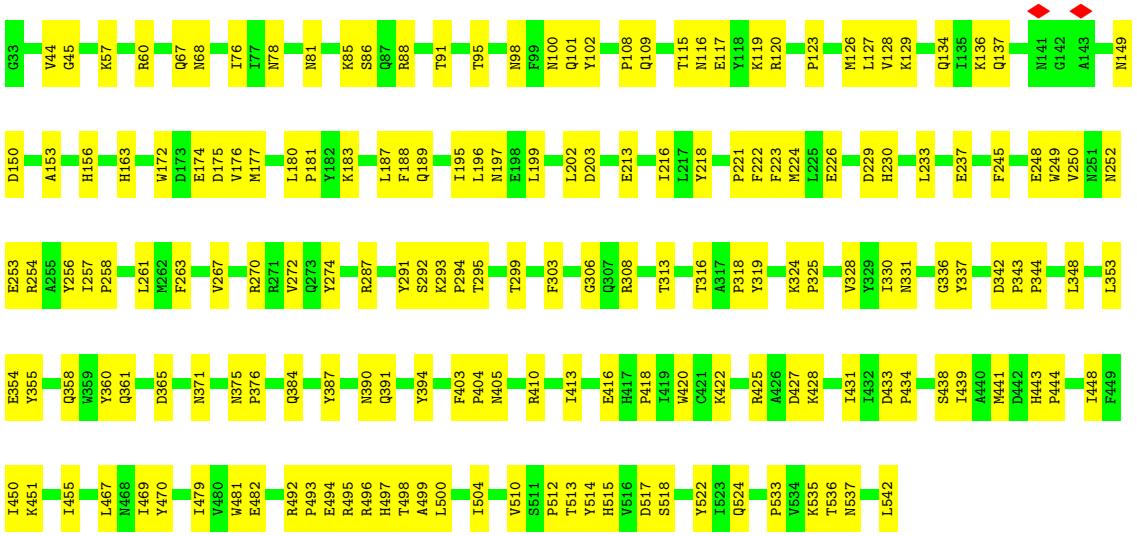
• Molecule 1: Capsid protein

Chain T:



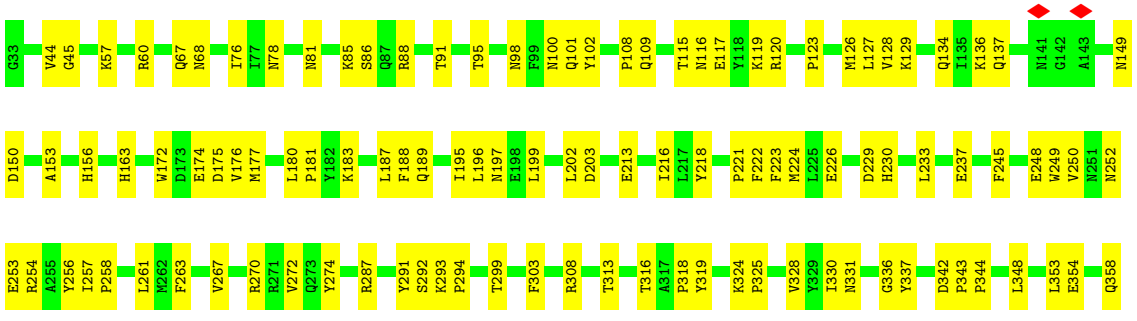
• Molecule 1: Capsid protein

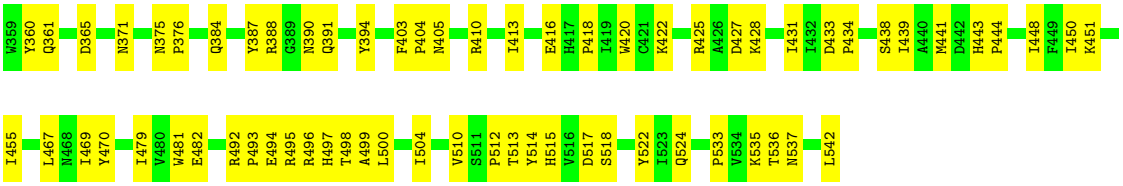
Chain U:



• Molecule 1: Capsid protein

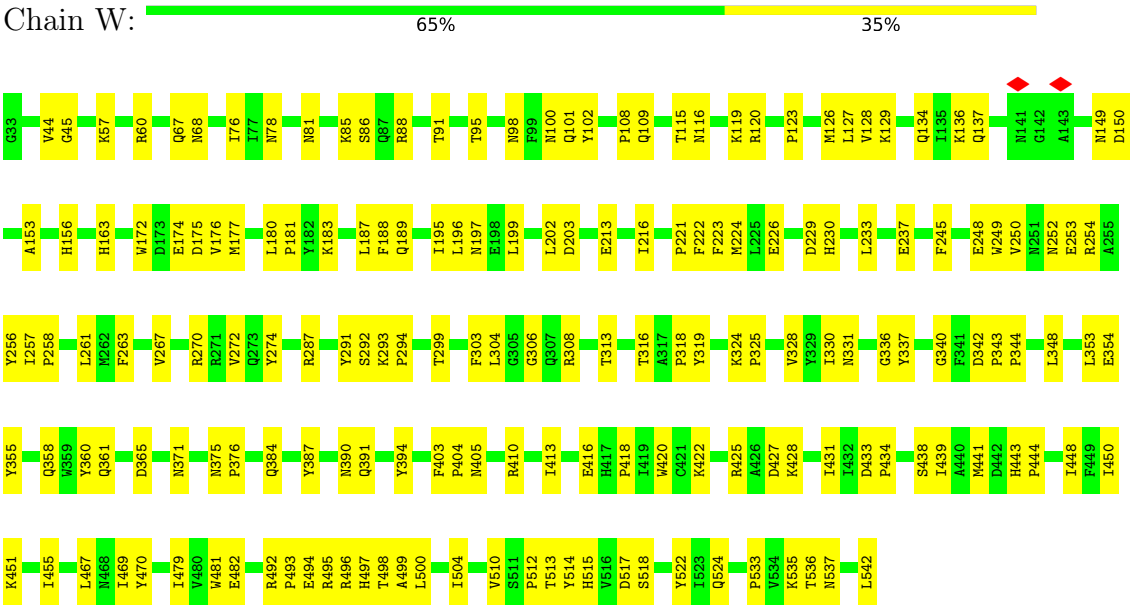
Chain V:





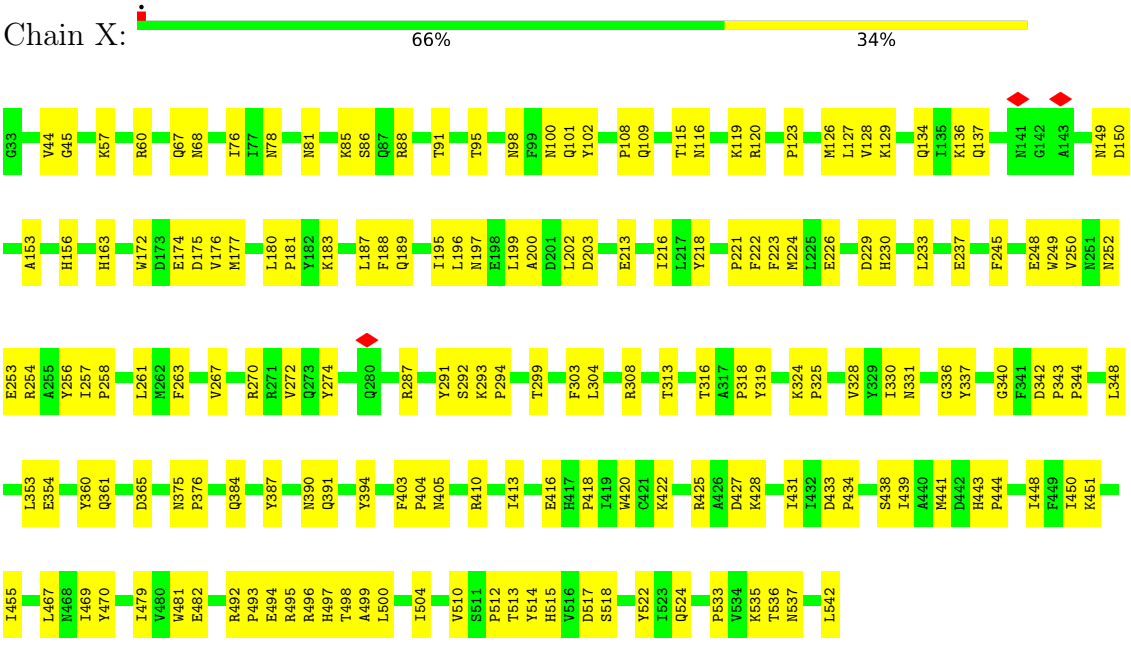
• Molecule 1: Capsid protein

Chain W:



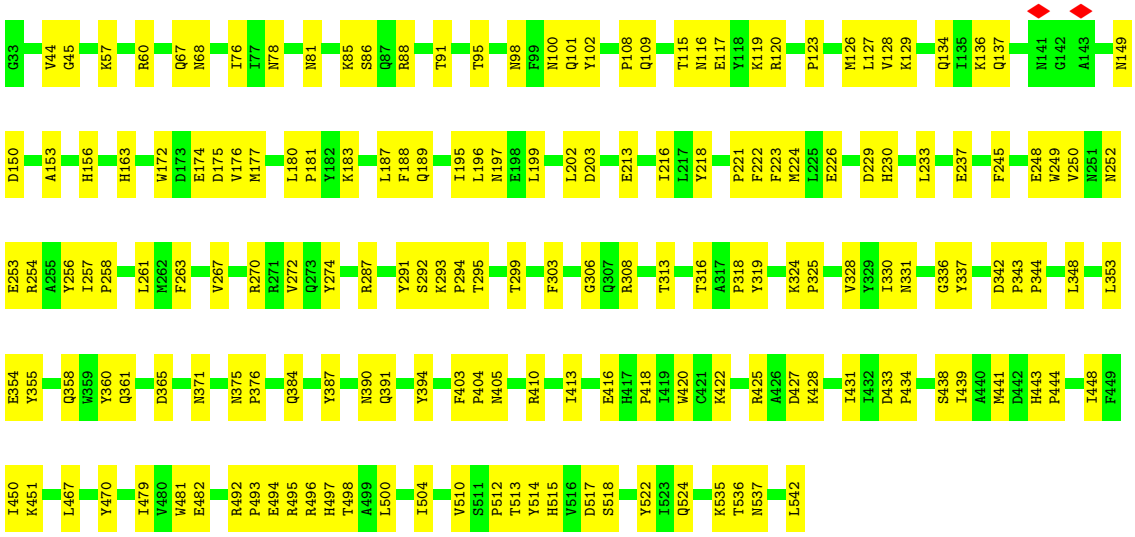
• Molecule 1: Capsid protein

Chain X:



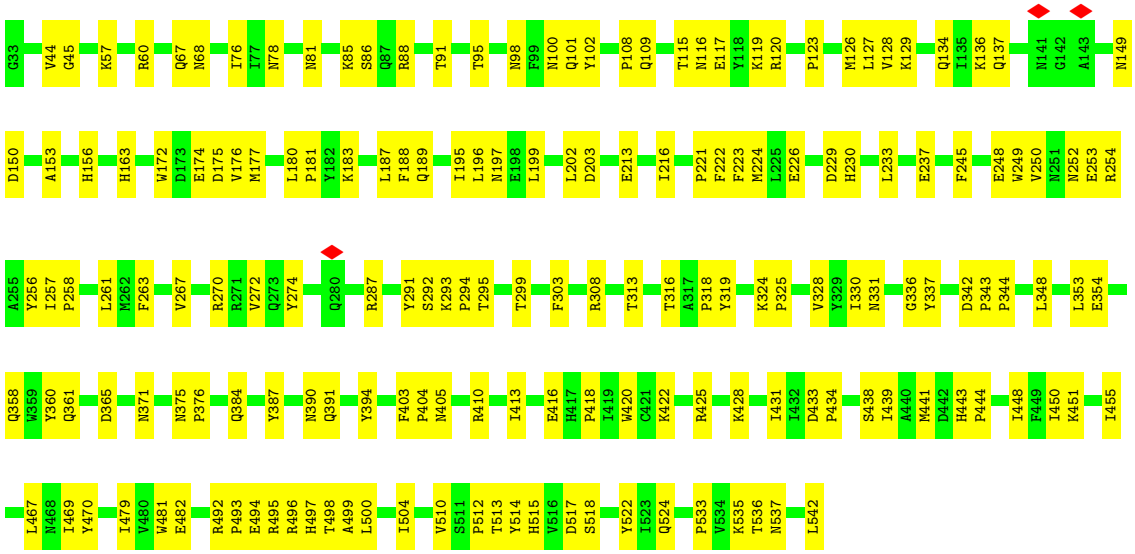
• Molecule 1: Capsid protein

Chain Y:



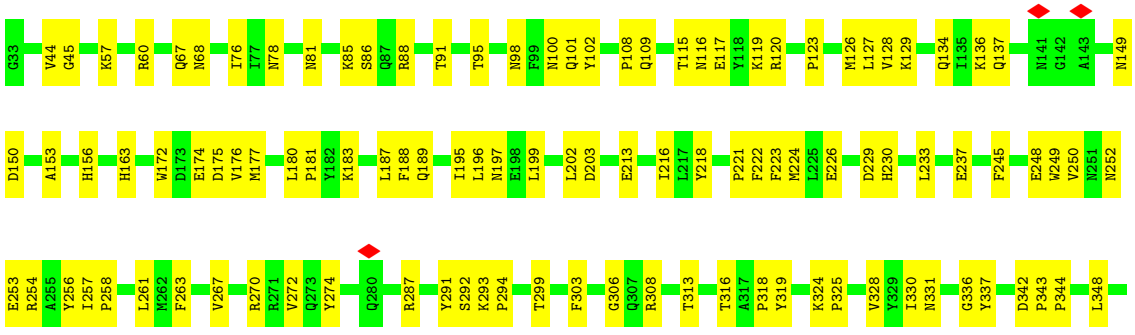
• Molecule 1: Capsid protein

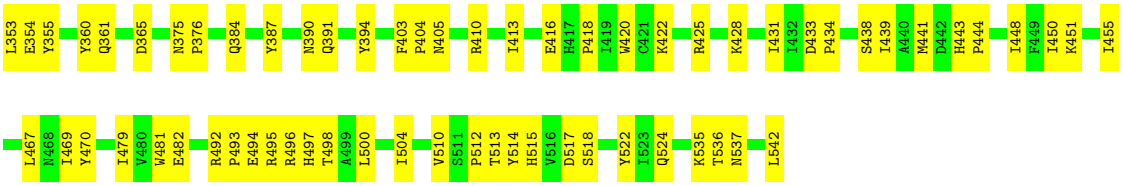
Chain Z:



• Molecule 1: Capsid protein

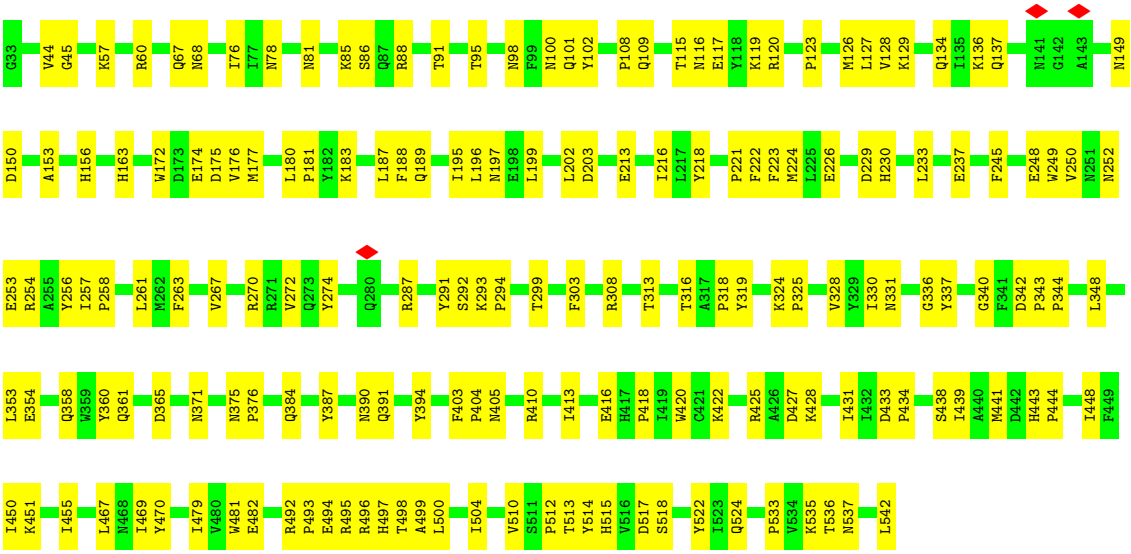
Chain a:





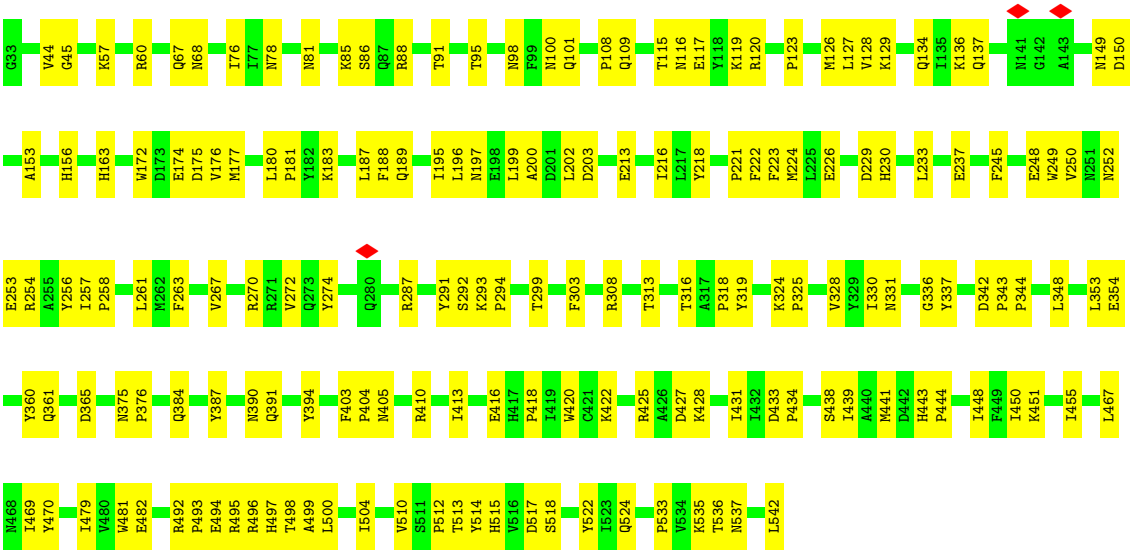
• Molecule 1: Capsid protein

Chain b:



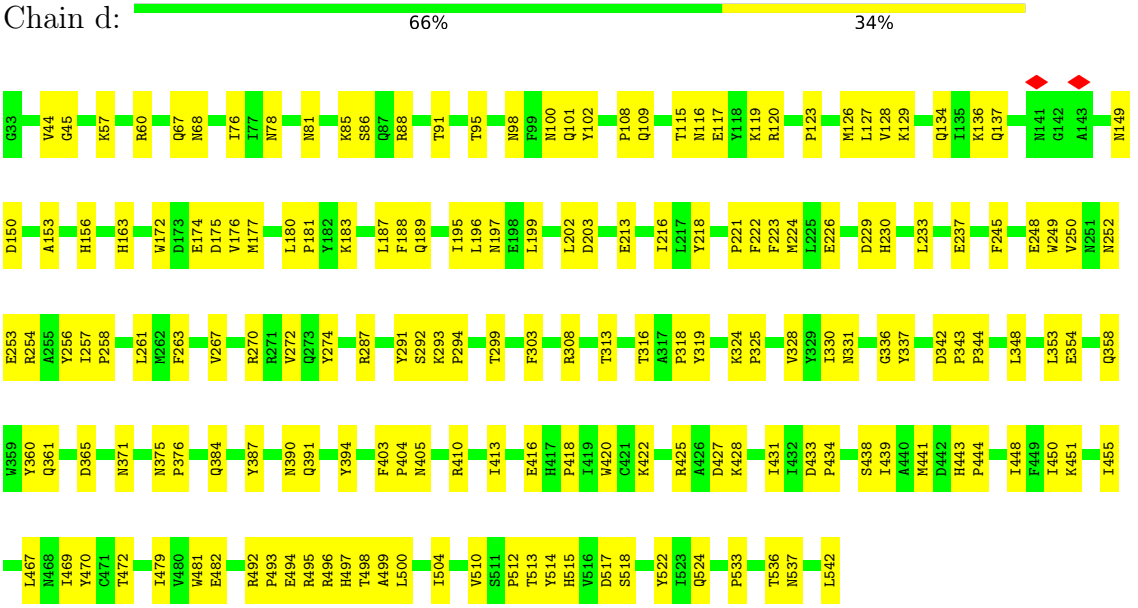
• Molecule 1: Capsid protein

Chain c:



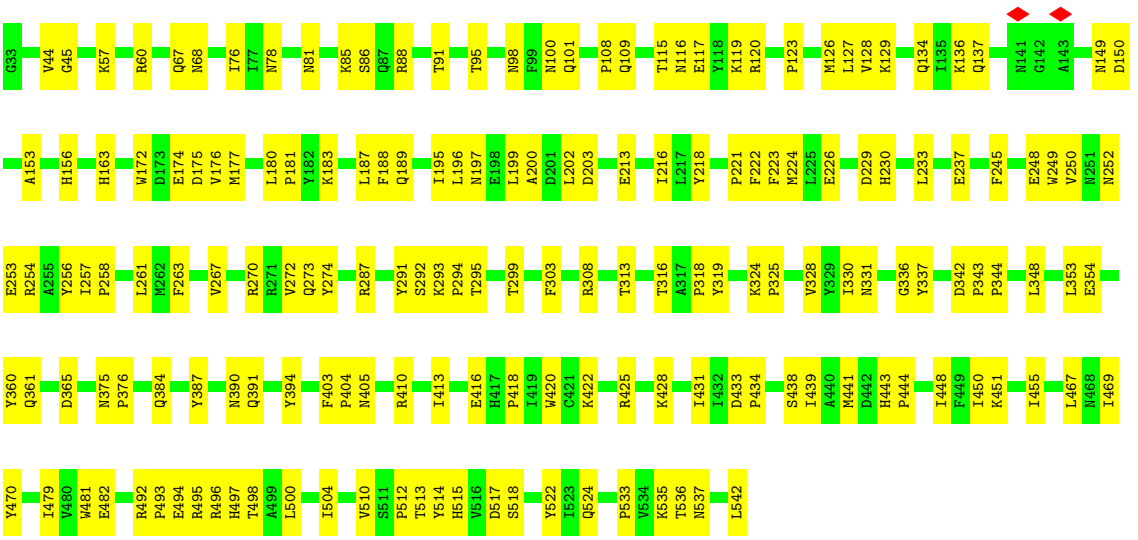
• Molecule 1: Capsid protein

Chain d:



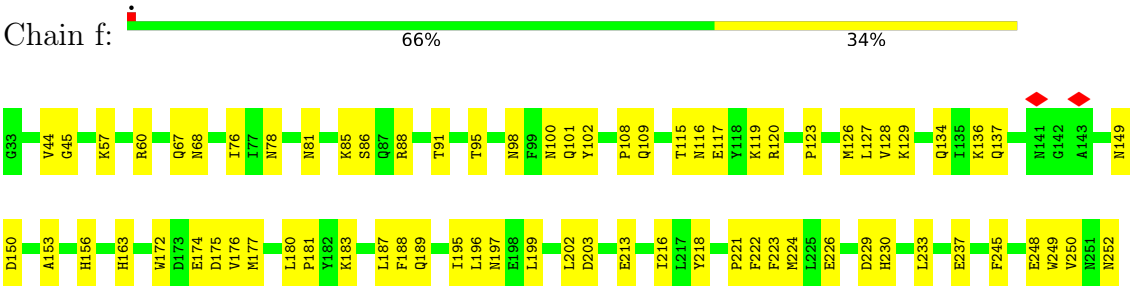
• Molecule 1: Capsid protein

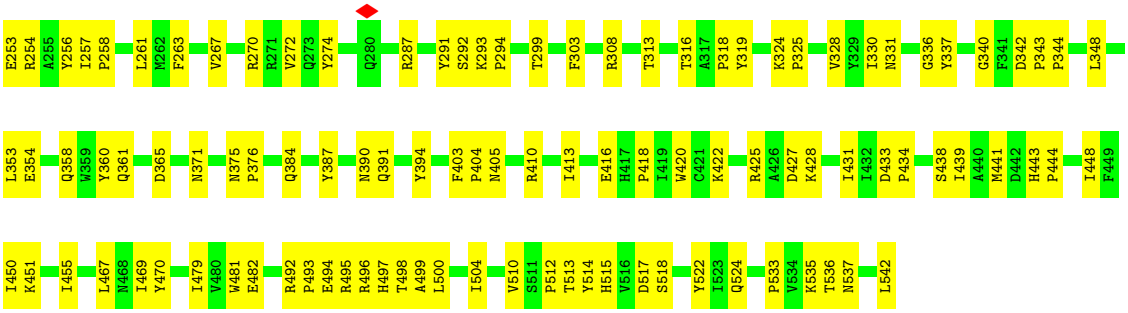
Chain e:



• Molecule 1: Capsid protein

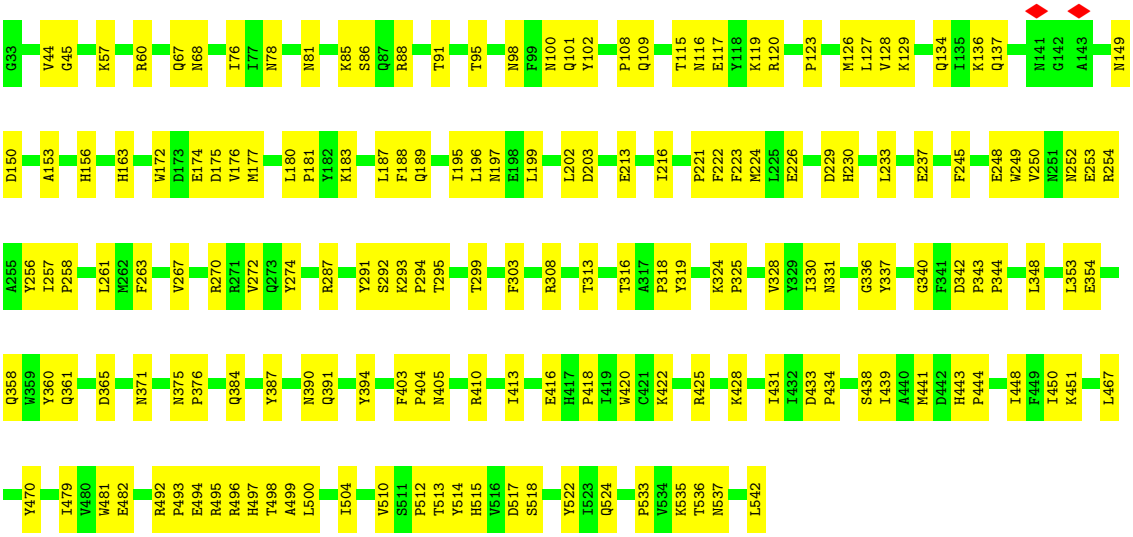
Chain f:





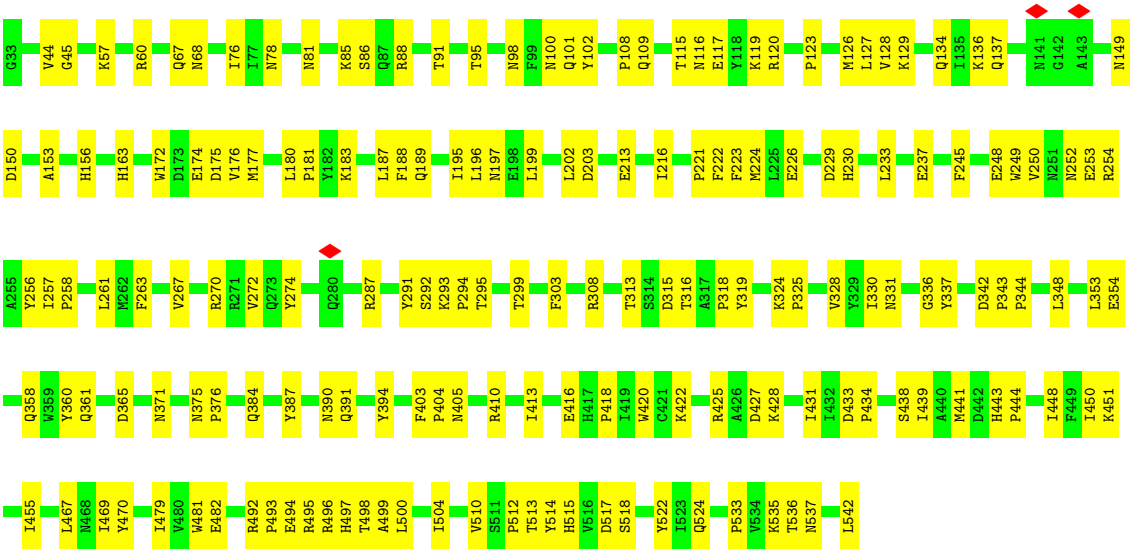
• Molecule 1: Capsid protein

Chain g:



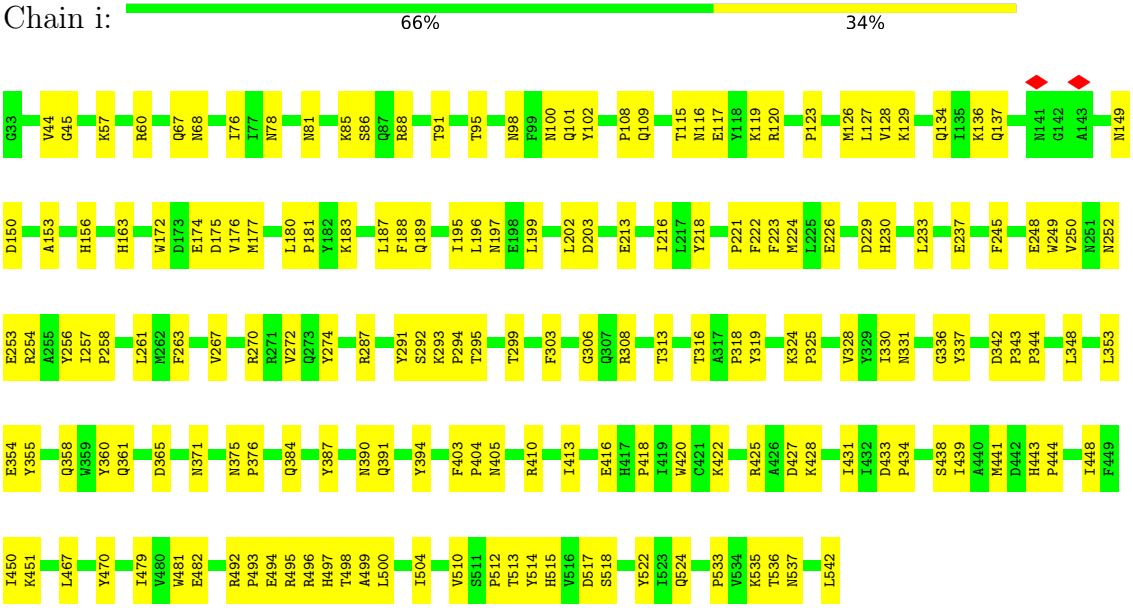
• Molecule 1: Capsid protein

Chain h:



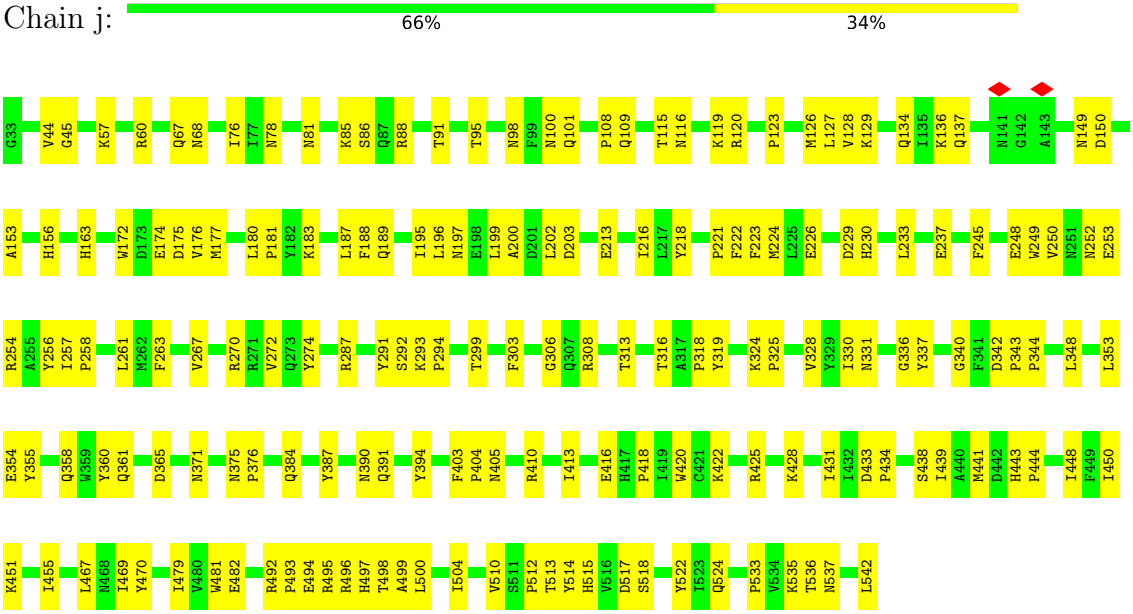
• Molecule 1: Capsid protein

Chain i:



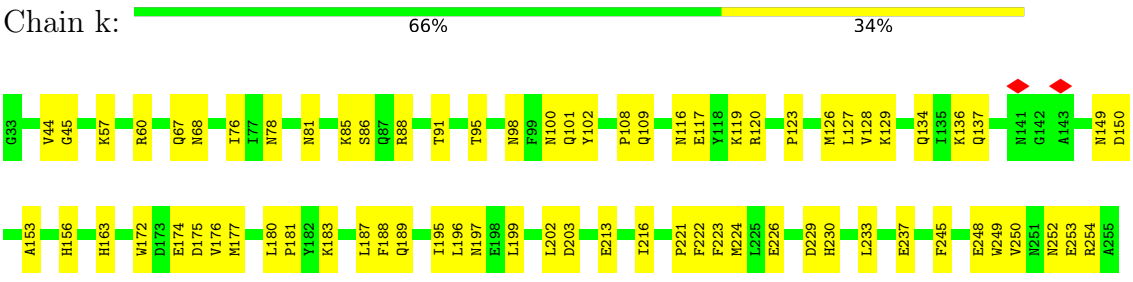
• Molecule 1: Capsid protein

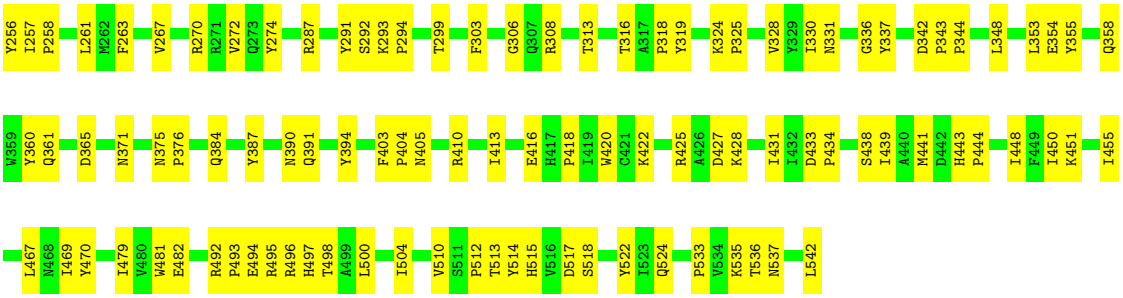
Chain j:



• Molecule 1: Capsid protein

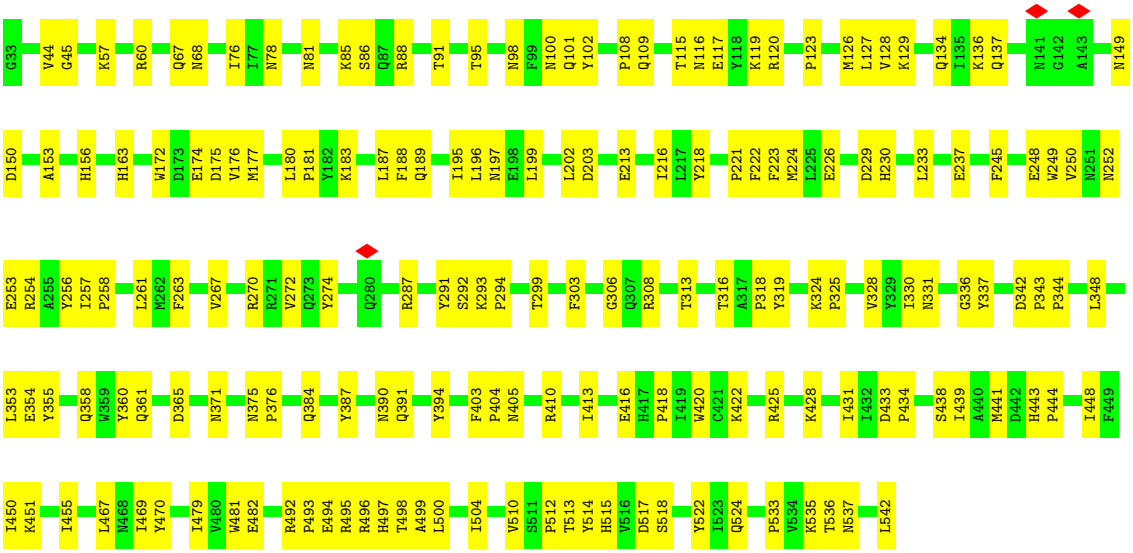
Chain k:





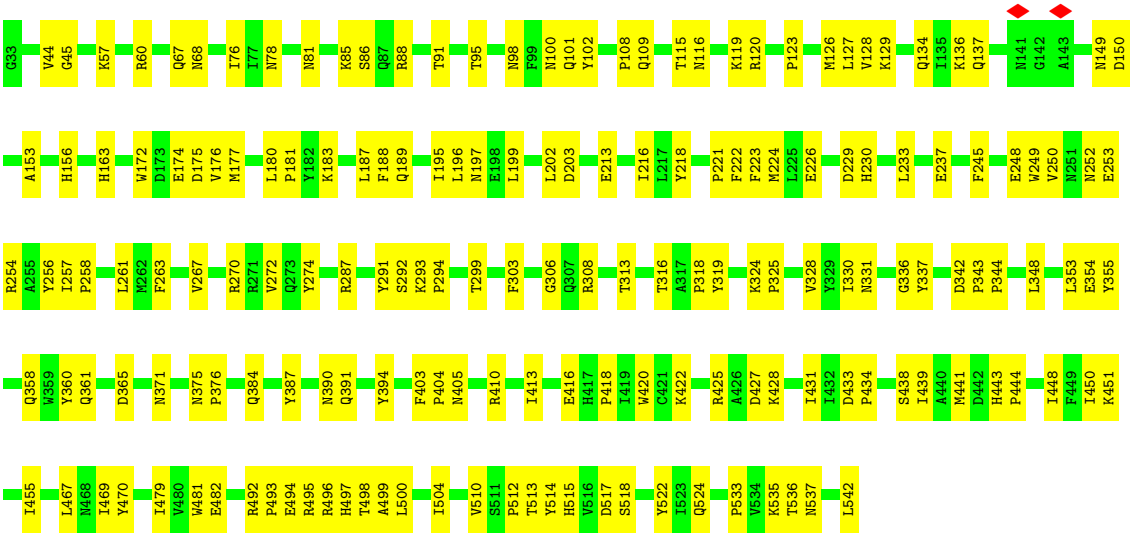
• Molecule 1: Capsid protein

Chain l:



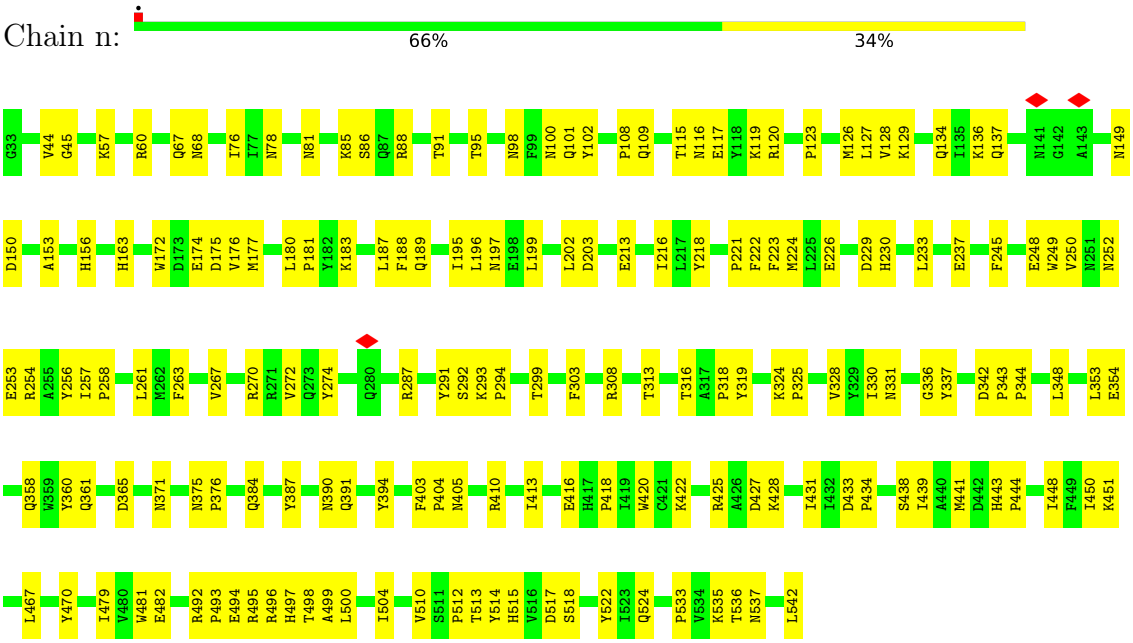
• Molecule 1: Capsid protein

Chain m:



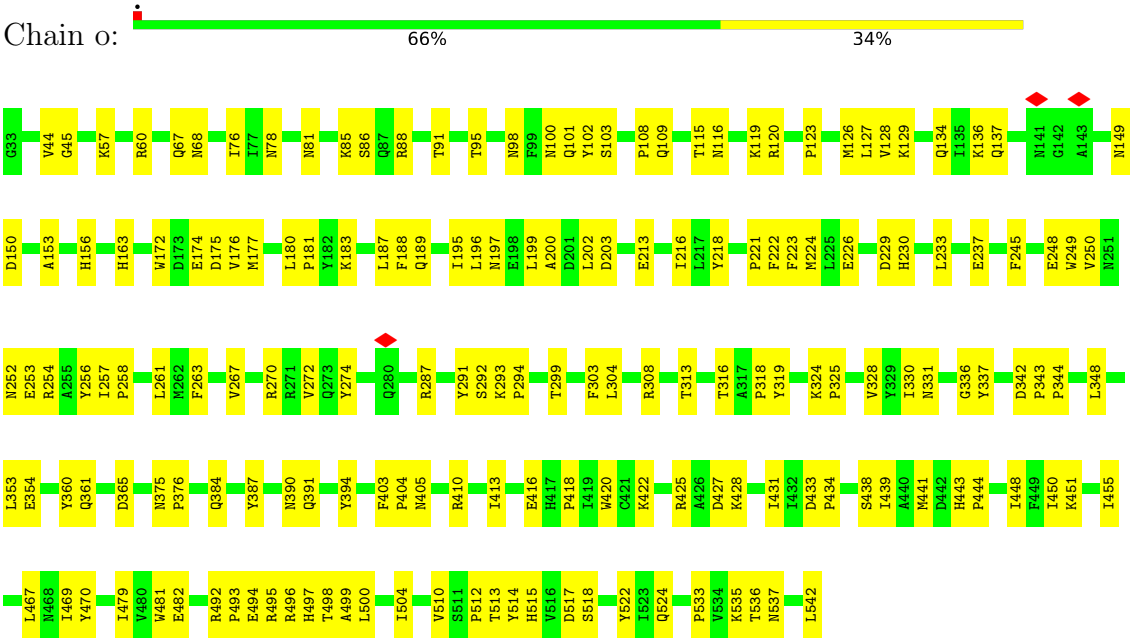
• Molecule 1: Capsid protein

Chain n:



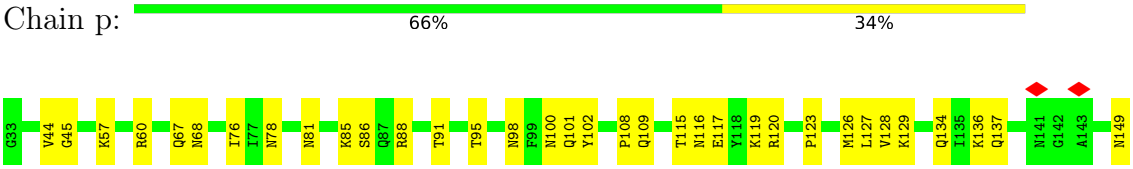
• Molecule 1: Capsid protein

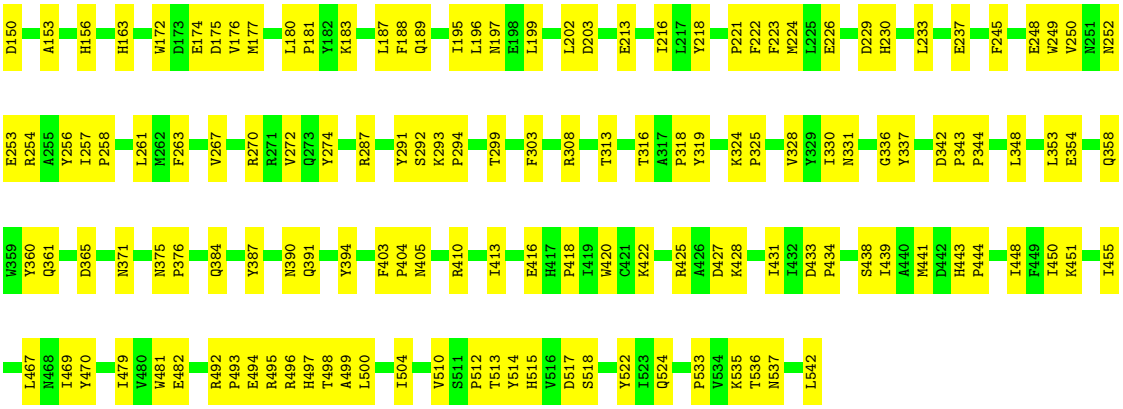
Chain o:



• Molecule 1: Capsid protein

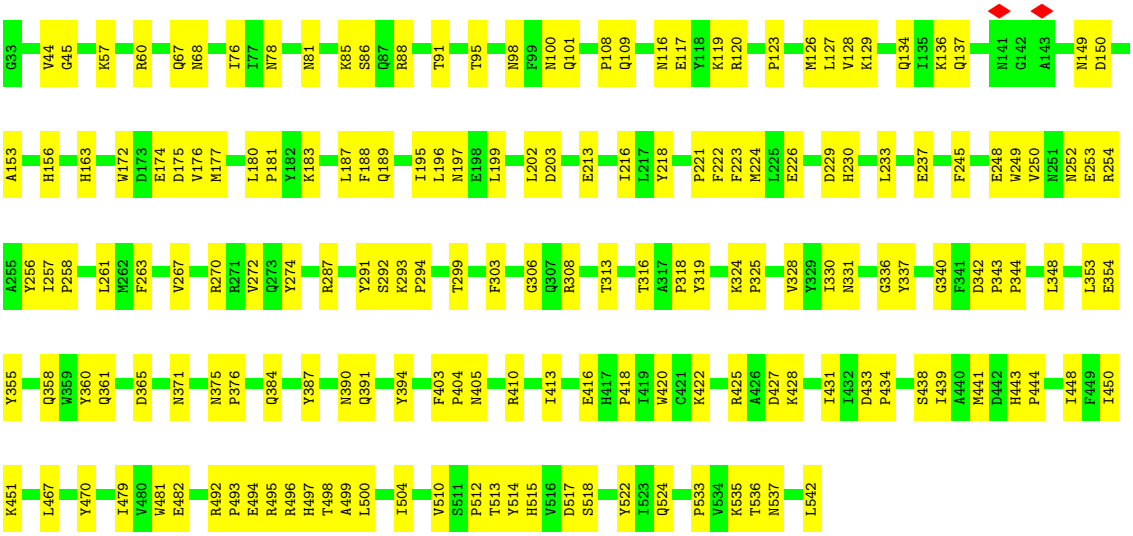
Chain p:





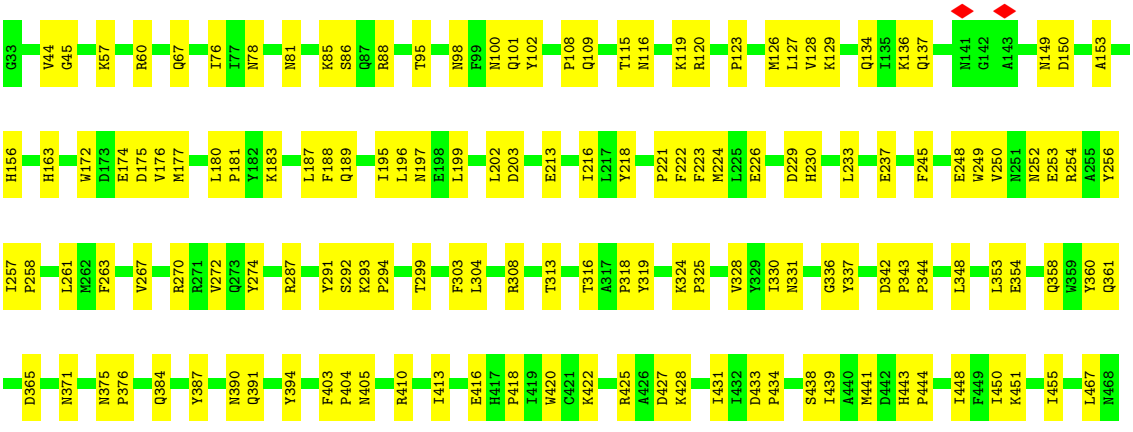
• Molecule 1: Capsid protein

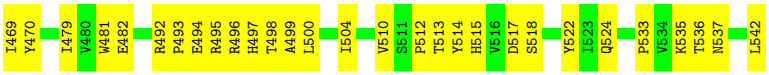
Chain q:



• Molecule 1: Capsid protein

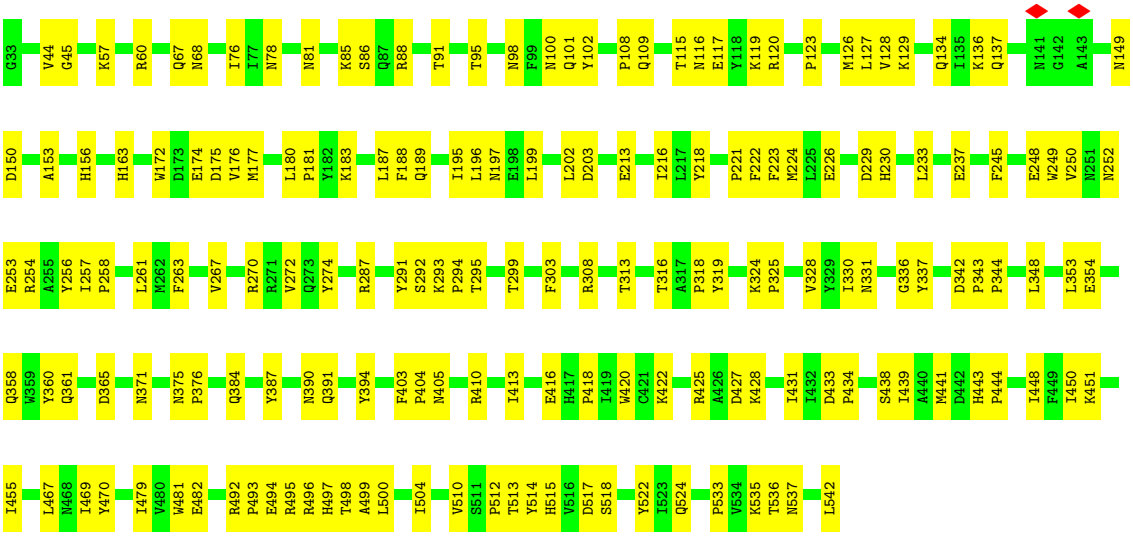
Chain r:





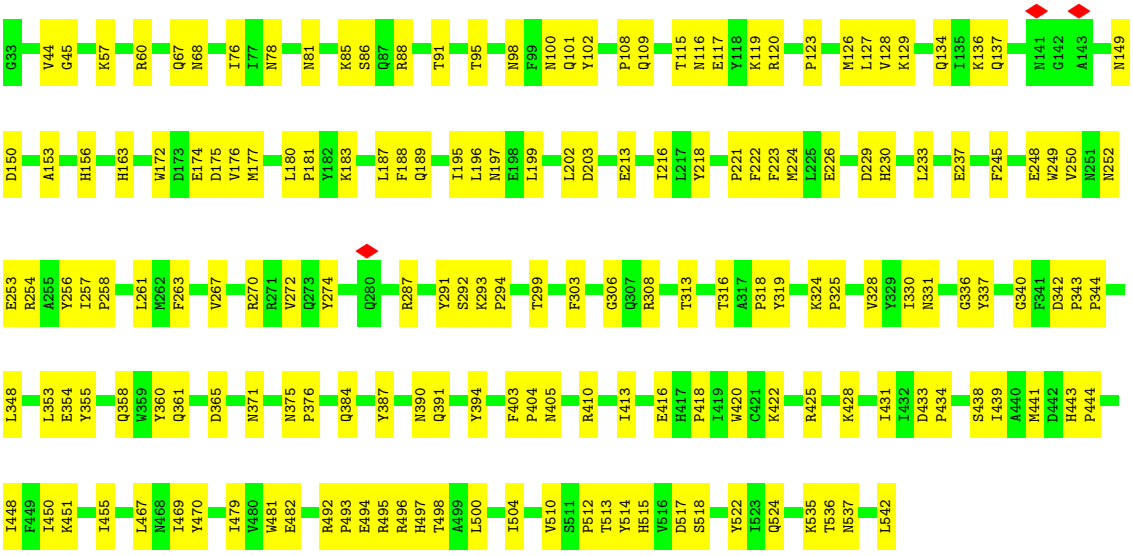
• Molecule 1: Capsid protein

Chain s:



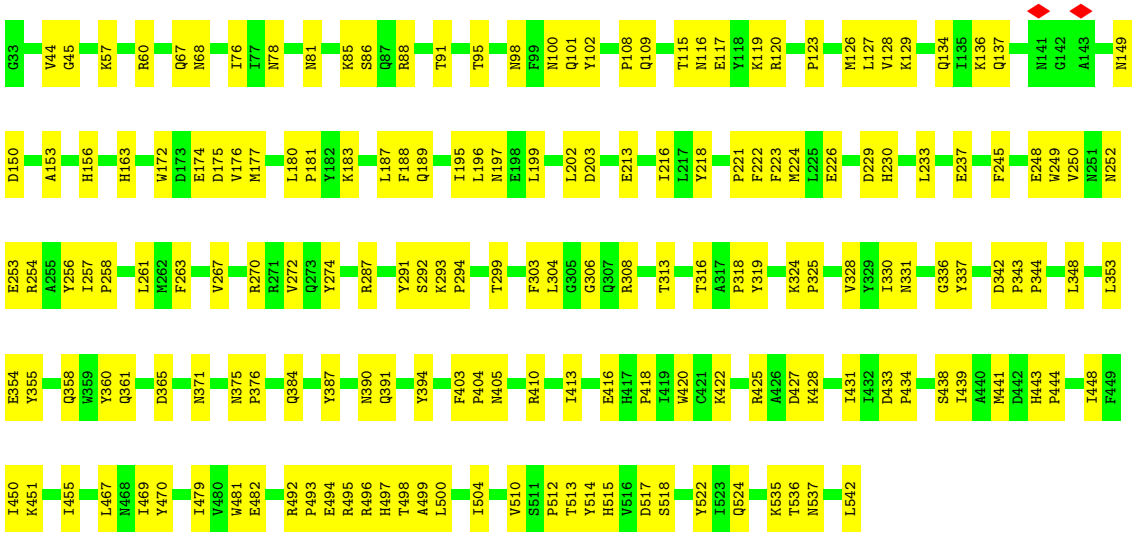
• Molecule 1: Capsid protein

Chain t:



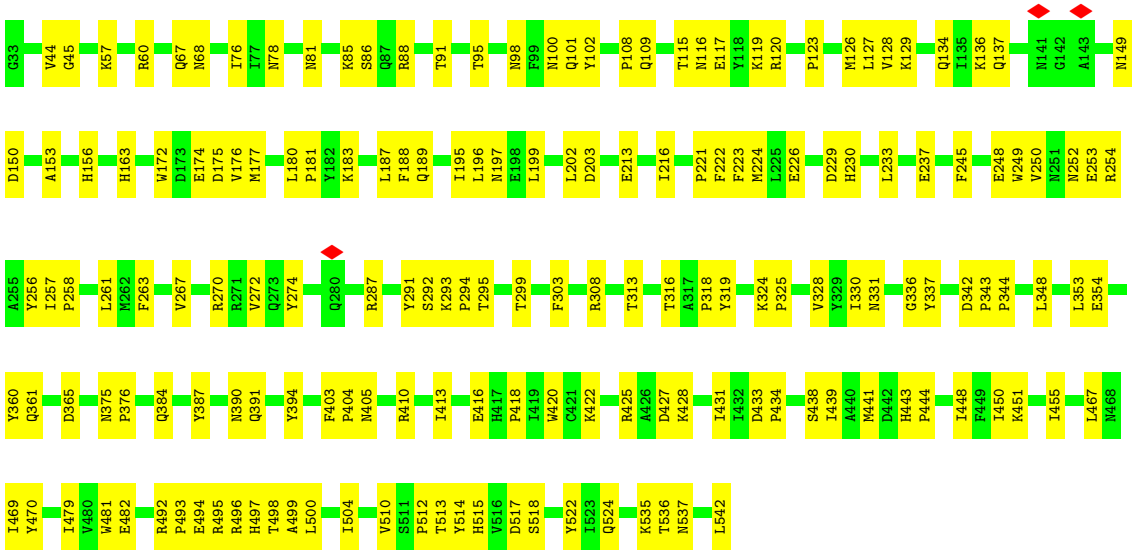
• Molecule 1: Capsid protein

Chain u:



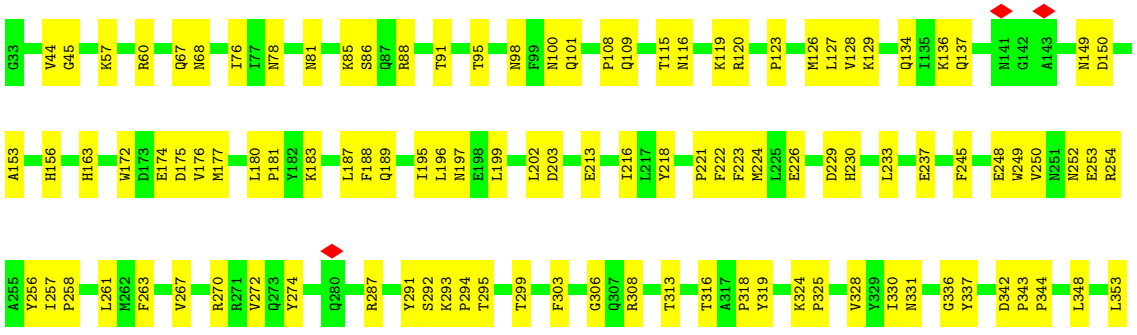
• Molecule 1: Capsid protein

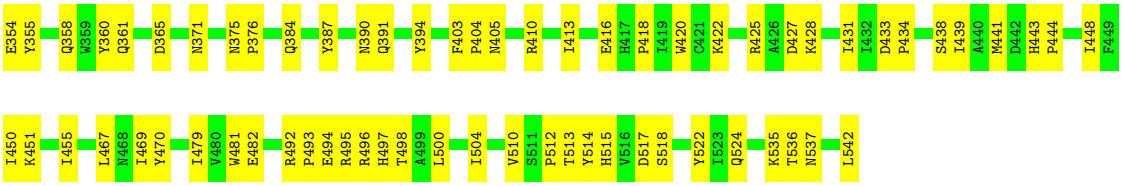
Chain v:



• Molecule 1: Capsid protein

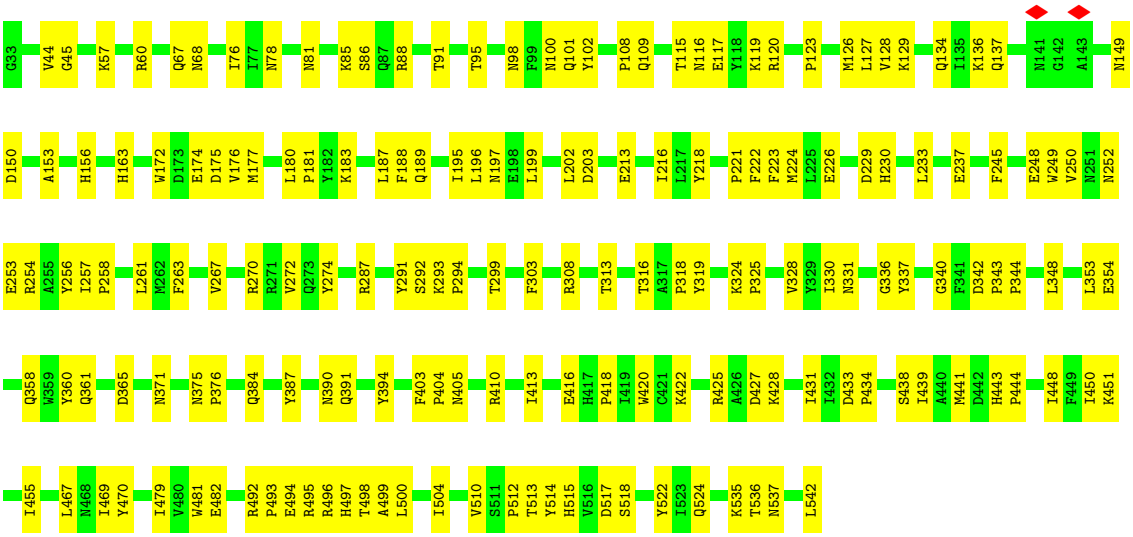
Chain w:





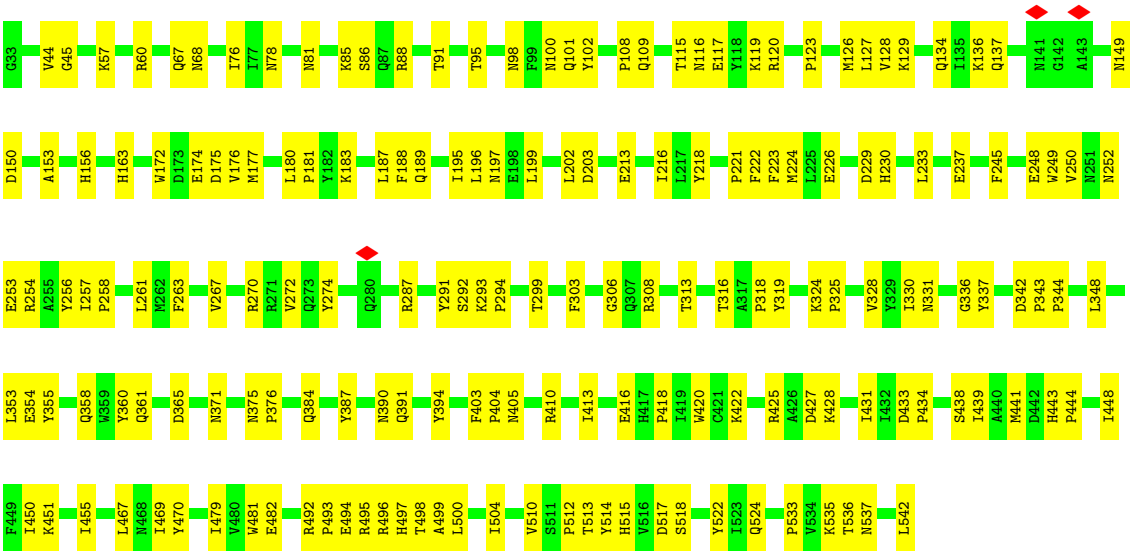
• Molecule 1: Capsid protein

Chain x:



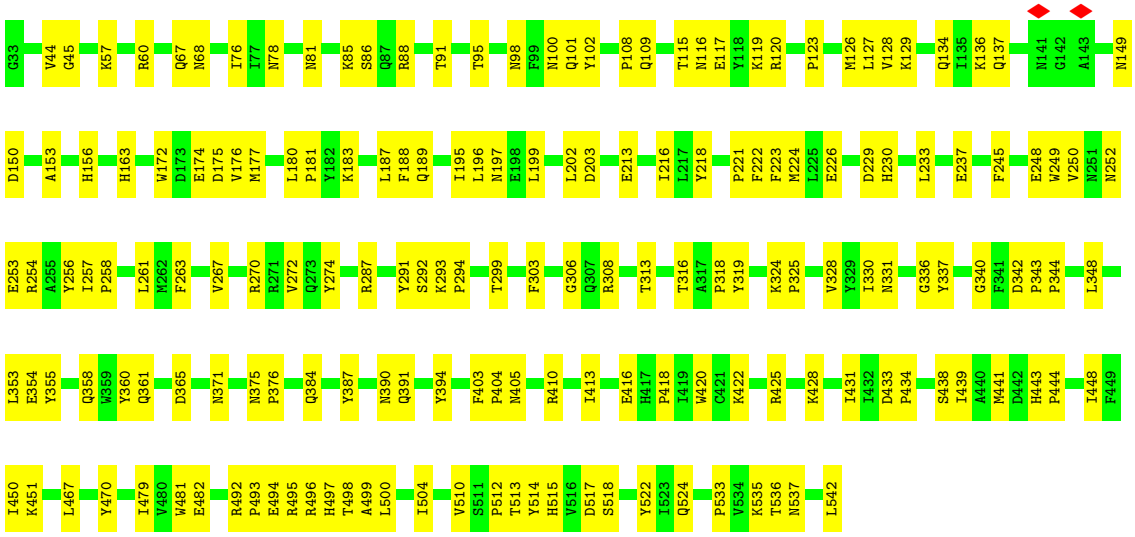
• Molecule 1: Capsid protein

Chain y:



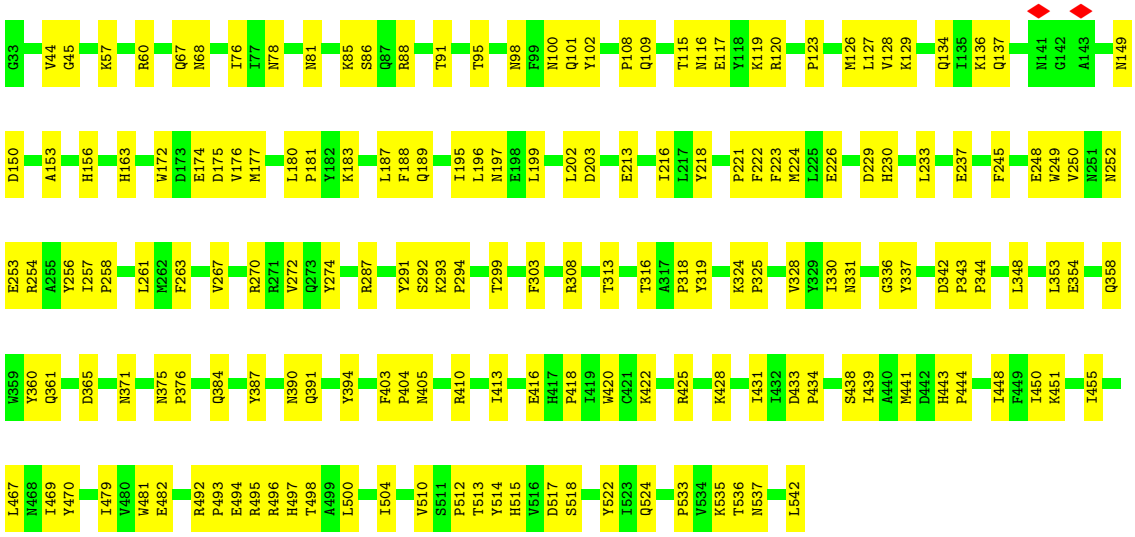
• Molecule 1: Capsid protein

Chain z:



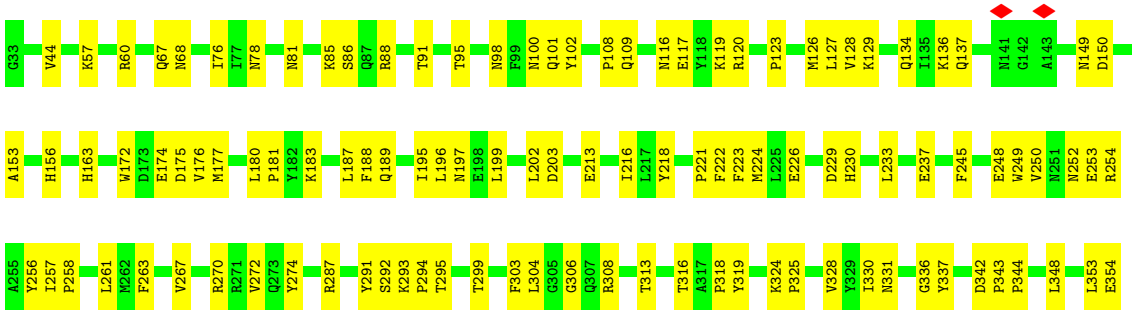
• Molecule 1: Capsid protein

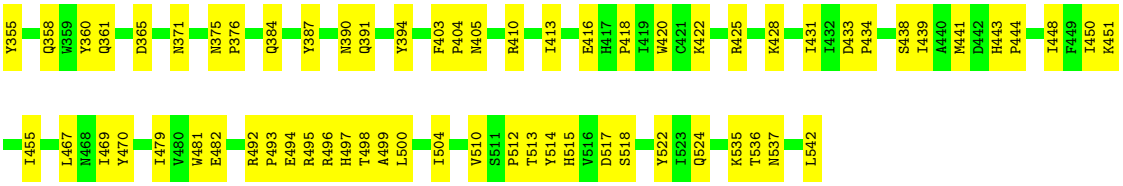
Chain 1:



• Molecule 1: Capsid protein

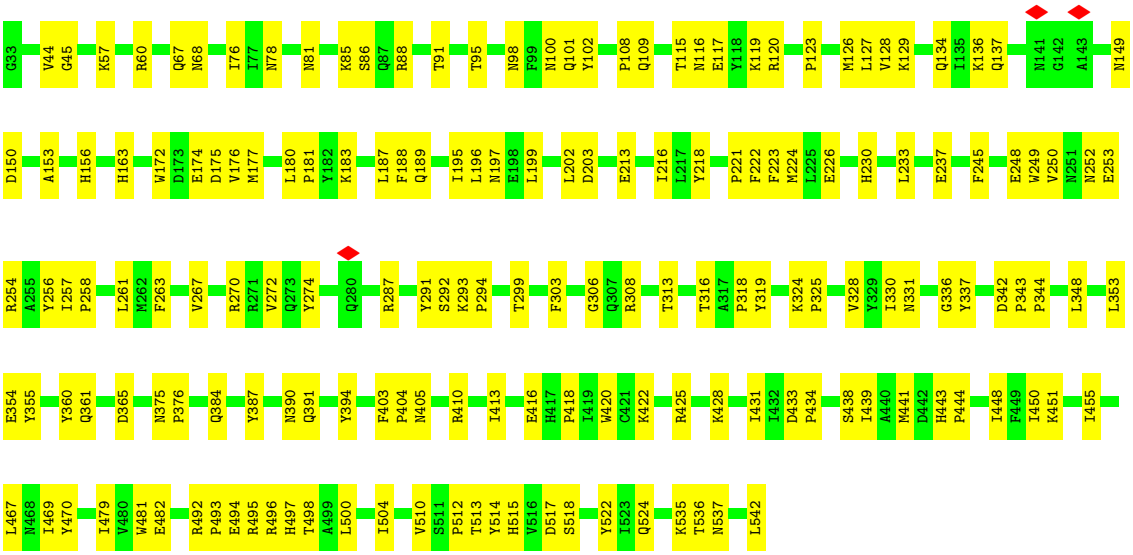
Chain 2:





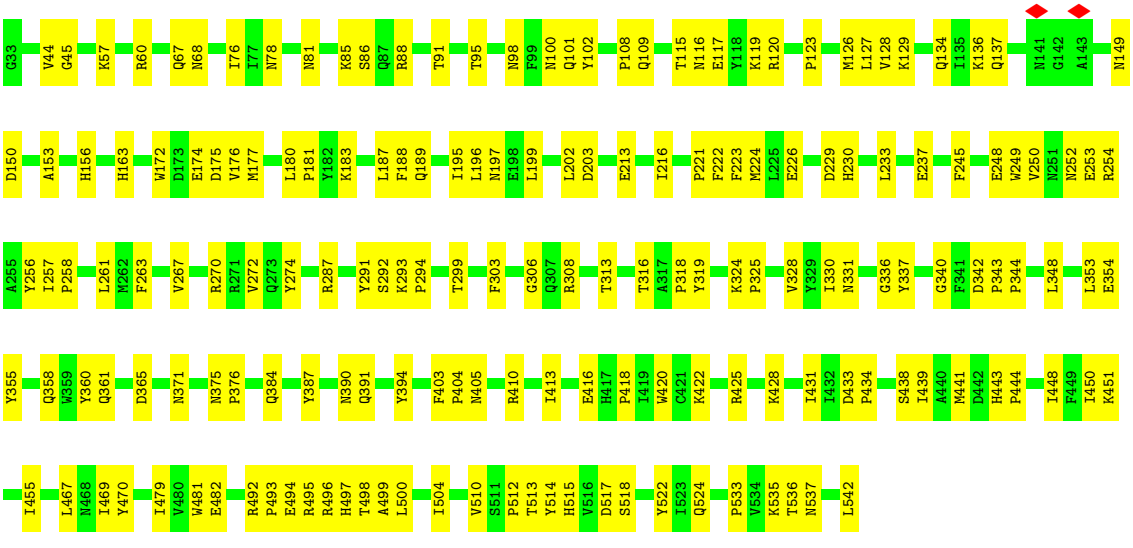
• Molecule 1: Capsid protein

Chain 3:



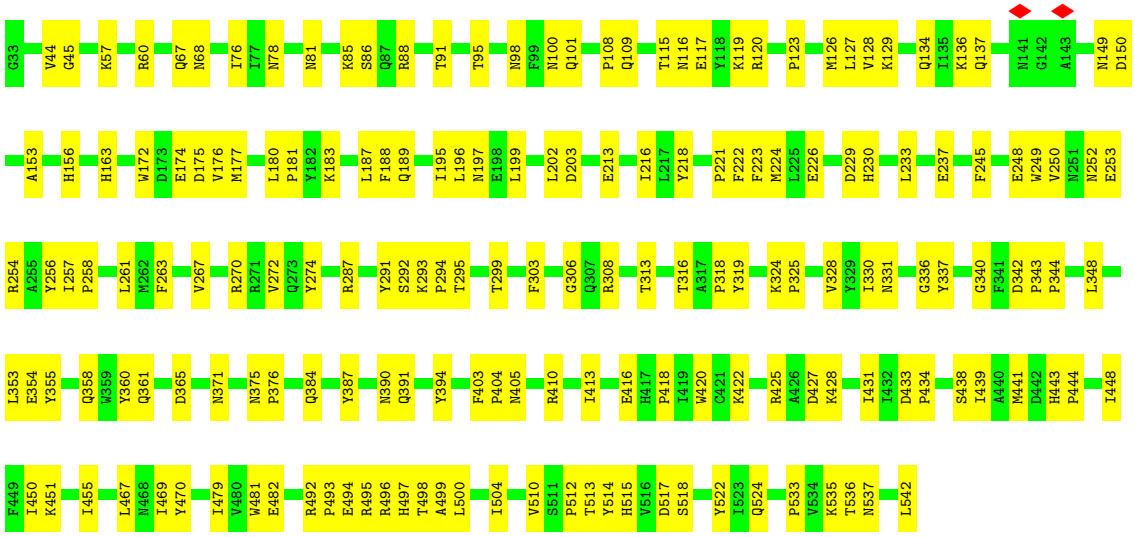
• Molecule 1: Capsid protein

Chain 4:



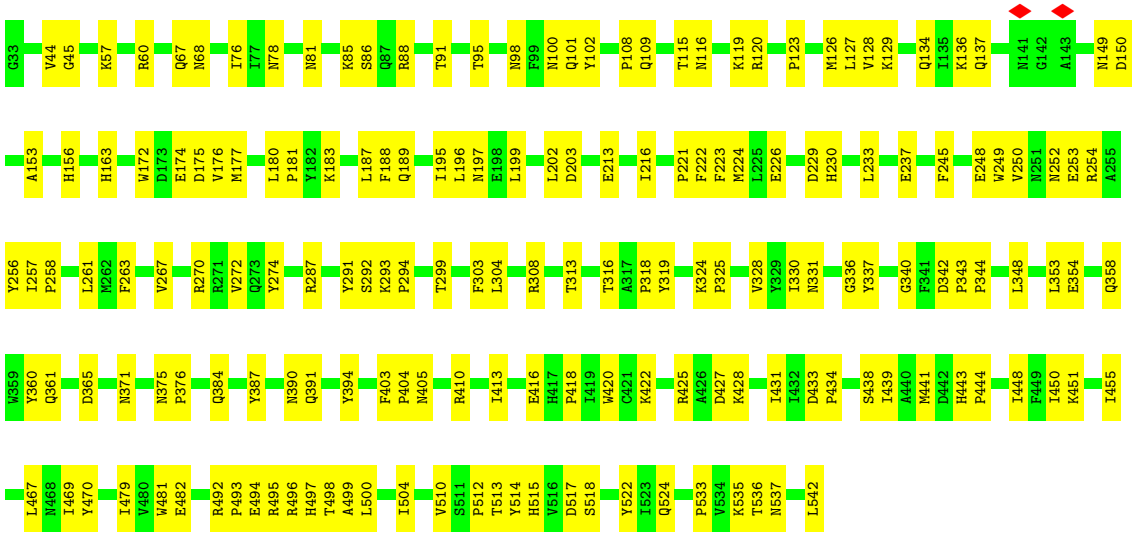
• Molecule 1: Capsid protein

Chain 5:



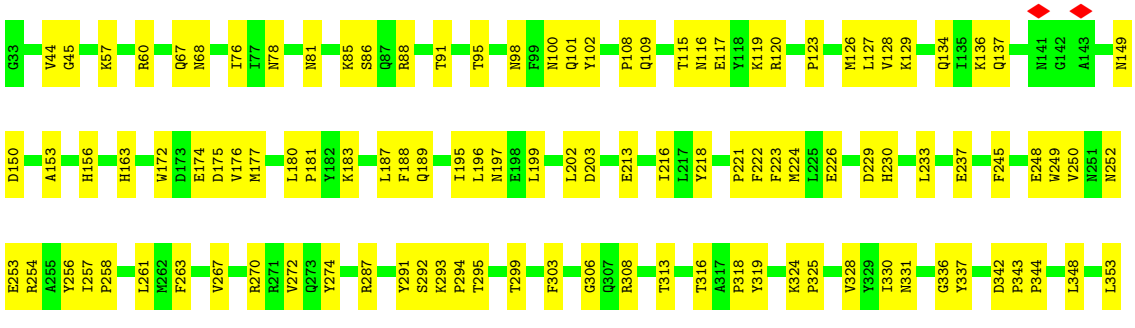
• Molecule 1: Capsid protein

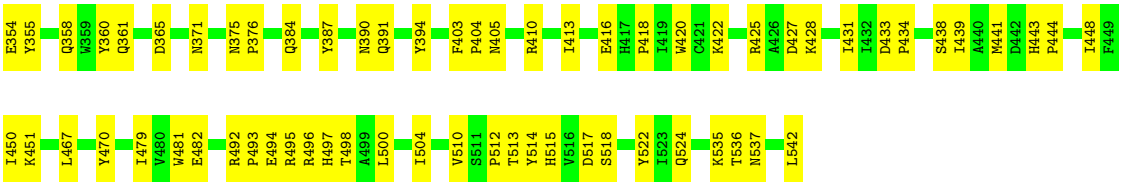
Chain 6:



• Molecule 1: Capsid protein

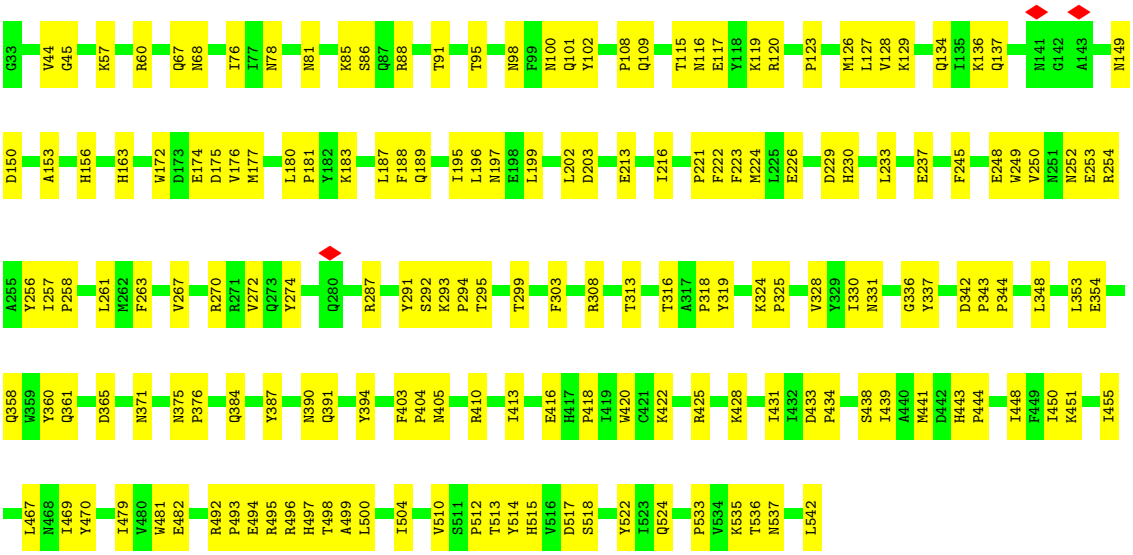
Chain 7:





• Molecule 1: Capsid protein

Chain 8:



4 Experimental information (i)

Property	Value	Source
EM reconstruction method	SINGLE PARTICLE	Depositor
Imposed symmetry	POINT, I	Depositor
Number of particles used	168565	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 ($e^-/Å^2$)	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	18.198	Depositor
Minimum map value	-11.170	Depositor
Average map value	0.000	Depositor
Map value standard deviation	1.000	Depositor
Recommended contour level	2	Depositor
Map size (Å)	428.80002, 428.80002, 428.80002	wwPDB
Map dimensions	400, 400, 400	wwPDB
Map angles (°)	90.0, 90.0, 90.0	wwPDB
Pixel spacing (Å)	1.072, 1.072, 1.072	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	0.42	0/4187	0.53	0/5712
1	2	0.42	0/4187	0.53	0/5712
1	3	0.42	0/4187	0.53	0/5712
1	4	0.42	0/4187	0.53	0/5712
1	5	0.42	0/4187	0.53	0/5712
1	6	0.42	0/4187	0.53	0/5712
1	7	0.42	0/4187	0.53	0/5712
1	8	0.42	0/4187	0.53	0/5712
1	A	0.42	0/4187	0.53	0/5712
1	B	0.42	0/4187	0.53	0/5712
1	C	0.42	0/4187	0.53	0/5712
1	D	0.42	0/4187	0.53	0/5712
1	E	0.42	0/4187	0.53	0/5712
1	F	0.42	0/4187	0.53	0/5712
1	G	0.42	0/4187	0.53	0/5712
1	H	0.42	0/4187	0.53	0/5712
1	I	0.42	0/4187	0.53	0/5712
1	J	0.42	0/4187	0.53	0/5712
1	K	0.42	0/4187	0.53	0/5712
1	L	0.42	0/4187	0.53	0/5712
1	M	0.42	0/4187	0.53	0/5712
1	N	0.42	0/4187	0.53	0/5712
1	O	0.42	0/4187	0.53	0/5712
1	P	0.42	0/4187	0.53	0/5712
1	Q	0.42	0/4187	0.53	0/5712
1	R	0.42	0/4187	0.53	0/5712
1	S	0.42	0/4187	0.53	0/5712
1	T	0.42	0/4187	0.53	0/5712
1	U	0.42	0/4187	0.53	0/5712
1	V	0.42	0/4187	0.53	0/5712
1	W	0.42	0/4187	0.53	0/5712
1	X	0.42	0/4187	0.53	0/5712
1	Y	0.42	0/4187	0.53	0/5712
1	Z	0.42	0/4187	0.53	0/5712

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	$\#\|Z\| > 5$	RMSZ	$\#\|Z\| > 5$
1	a	0.42	0/4187	0.53	0/5712
1	b	0.42	0/4187	0.53	0/5712
1	c	0.42	0/4187	0.53	0/5712
1	d	0.42	0/4187	0.53	0/5712
1	e	0.42	0/4187	0.53	0/5712
1	f	0.42	0/4187	0.53	0/5712
1	g	0.42	0/4187	0.53	0/5712
1	h	0.42	0/4187	0.53	0/5712
1	i	0.42	0/4187	0.53	0/5712
1	j	0.42	0/4187	0.53	0/5712
1	k	0.42	0/4187	0.53	0/5712
1	l	0.42	0/4187	0.53	0/5712
1	m	0.42	0/4187	0.53	0/5712
1	n	0.42	0/4187	0.53	0/5712
1	o	0.42	0/4187	0.53	0/5712
1	p	0.42	0/4187	0.53	0/5712
1	q	0.42	0/4187	0.53	0/5712
1	r	0.42	0/4187	0.53	0/5712
1	s	0.42	0/4187	0.53	0/5712
1	t	0.42	0/4187	0.53	0/5712
1	u	0.42	0/4187	0.53	0/5712
1	v	0.42	0/4187	0.53	0/5712
1	w	0.42	0/4187	0.53	0/5712
1	x	0.42	0/4187	0.53	0/5712
1	y	0.42	0/4187	0.53	0/5712
1	z	0.42	0/4187	0.53	0/5712
All	All	0.42	0/251220	0.53	0/342720

There are no bond length outliers.

There are no bond angle outliers.

There are no chirality outliers.

There are no planarity outliers.

5.2 Too-close contacts (i)

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	4059	0	3875	155	0
1	2	4059	0	3875	156	0
1	3	4059	0	3875	150	0
1	4	4059	0	3875	154	0
1	5	4059	0	3875	160	0
1	6	4059	0	3875	154	0
1	7	4059	0	3875	156	0
1	8	4059	0	3875	155	0
1	A	4059	0	3875	155	0
1	B	4059	0	3875	157	0
1	C	4059	0	3875	157	0
1	D	4059	0	3875	149	0
1	E	4059	0	3875	154	0
1	F	4059	0	3875	159	0
1	G	4059	0	3875	154	0
1	H	4059	0	3875	157	0
1	I	4059	0	3875	158	0
1	J	4059	0	3875	158	0
1	K	4059	0	3875	154	0
1	L	4059	0	3875	155	0
1	M	4059	0	3875	158	0
1	N	4059	0	3875	155	0
1	O	4059	0	3875	157	0
1	P	4059	0	3875	154	0
1	Q	4059	0	3875	156	0
1	R	4059	0	3875	149	0
1	S	4059	0	3875	152	0
1	T	4059	0	3875	158	0
1	U	4059	0	3875	157	0
1	V	4059	0	3875	154	0
1	W	4059	0	3875	155	0
1	X	4059	0	3875	158	0
1	Y	4059	0	3875	156	0
1	Z	4059	0	3875	154	0
1	a	4059	0	3875	151	0
1	b	4059	0	3875	156	0
1	c	4059	0	3875	157	0
1	d	4059	0	3875	158	0
1	e	4059	0	3875	159	0
1	f	4059	0	3875	157	0
1	g	4059	0	3875	155	0
1	h	4059	0	3875	156	0
1	i	4059	0	3875	158	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	j	4059	0	3875	154	0
1	k	4059	0	3875	151	0
1	l	4059	0	3875	153	0
1	m	4059	0	3875	158	0
1	n	4059	0	3875	154	0
1	o	4059	0	3875	157	0
1	p	4059	0	3875	154	0
1	q	4059	0	3875	153	0
1	r	4059	0	3875	153	0
1	s	4059	0	3875	157	0
1	t	4059	0	3875	153	0
1	u	4059	0	3875	158	0
1	v	4059	0	3875	155	0
1	w	4059	0	3875	153	0
1	x	4059	0	3875	157	0
1	y	4059	0	3875	156	0
1	z	4059	0	3875	155	0
All	All	243540	0	232500	7427	0

The all-atom clashscore is defined as the number of clashes found per 1000 atoms (including hydrogen atoms). The all-atom clashscore for this structure is 16.

All (7427) 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:B:196:LEU:HD22	1:B:199:LEU:HD13	1.59	0.85
1:R:410:ARG:NH2	1:R:438:SER:O	2.10	0.85
1:1:196:LEU:HD22	1:1:199:LEU:HD13	1.59	0.85
1:T:196:LEU:HD22	1:T:199:LEU:HD13	1.59	0.85
1:T:410:ARG:NH2	1:T:438:SER:O	2.10	0.85
1:m:196:LEU:HD22	1:m:199:LEU:HD13	1.59	0.85
1:m:410:ARG:NH2	1:m:438:SER:O	2.10	0.85
1:n:410:ARG:NH2	1:n:438:SER:O	2.10	0.85
1:o:196:LEU:HD22	1:o:199:LEU:HD13	1.59	0.85
1:q:410:ARG:NH2	1:q:438:SER:O	2.10	0.85
1:A:196:LEU:HD22	1:A:199:LEU:HD13	1.59	0.85
1:D:410:ARG:NH2	1:D:438:SER:O	2.10	0.85
1:F:196:LEU:HD22	1:F:199:LEU:HD13	1.59	0.85
1:F:410:ARG:NH2	1:F:438:SER:O	2.10	0.85
1:G:410:ARG:NH2	1:G:438:SER:O	2.10	0.85
1:M:196:LEU:HD22	1:M:199:LEU:HD13	1.59	0.85

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:V:410:ARG:NH2	1:V:438:SER:O	2.10	0.85
1:X:196:LEU:HD22	1:X:199:LEU:HD13	1.59	0.85
1:d:410:ARG:NH2	1:d:438:SER:O	2.10	0.85
1:h:196:LEU:HD22	1:h:199:LEU:HD13	1.59	0.85
1:k:410:ARG:NH2	1:k:438:SER:O	2.10	0.85
1:o:410:ARG:NH2	1:o:438:SER:O	2.10	0.85
1:p:410:ARG:NH2	1:p:438:SER:O	2.10	0.85
1:t:410:ARG:NH2	1:t:438:SER:O	2.10	0.85
1:y:410:ARG:NH2	1:y:438:SER:O	2.10	0.85
1:X:410:ARG:NH2	1:X:438:SER:O	2.10	0.85
1:v:196:LEU:HD22	1:v:199:LEU:HD13	1.59	0.85
1:y:196:LEU:HD22	1:y:199:LEU:HD13	1.59	0.85
1:c:410:ARG:NH2	1:c:438:SER:O	2.10	0.85
1:e:410:ARG:NH2	1:e:438:SER:O	2.10	0.85
1:H:410:ARG:NH2	1:H:438:SER:O	2.10	0.85
1:S:410:ARG:NH2	1:S:438:SER:O	2.10	0.85
1:j:196:LEU:HD22	1:j:199:LEU:HD13	1.59	0.85
1:5:410:ARG:NH2	1:5:438:SER:O	2.10	0.85
1:r:410:ARG:NH2	1:r:438:SER:O	2.10	0.84
1:u:196:LEU:HD22	1:u:199:LEU:HD13	1.59	0.84
1:L:196:LEU:HD22	1:L:199:LEU:HD13	1.59	0.84
1:P:196:LEU:HD22	1:P:199:LEU:HD13	1.59	0.84
1:I:196:LEU:HD22	1:I:199:LEU:HD13	1.59	0.84
1:v:410:ARG:NH2	1:v:438:SER:O	2.10	0.84
1:z:196:LEU:HD22	1:z:199:LEU:HD13	1.59	0.84
1:A:410:ARG:NH2	1:A:438:SER:O	2.10	0.84
1:J:410:ARG:NH2	1:J:438:SER:O	2.10	0.84
1:w:410:ARG:NH2	1:w:438:SER:O	2.10	0.84
1:6:410:ARG:NH2	1:6:438:SER:O	2.10	0.84
1:I:410:ARG:NH2	1:I:438:SER:O	2.10	0.84
1:Q:196:LEU:HD22	1:Q:199:LEU:HD13	1.59	0.84
1:U:410:ARG:NH2	1:U:438:SER:O	2.10	0.84
1:W:410:ARG:NH2	1:W:438:SER:O	2.10	0.84
1:i:410:ARG:NH2	1:i:438:SER:O	2.10	0.84
1:s:410:ARG:NH2	1:s:438:SER:O	2.10	0.84
1:x:196:LEU:HD22	1:x:199:LEU:HD13	1.59	0.84
1:z:410:ARG:NH2	1:z:438:SER:O	2.10	0.84
1:2:410:ARG:NH2	1:2:438:SER:O	2.10	0.84
1:7:410:ARG:NH2	1:7:438:SER:O	2.10	0.84
1:E:410:ARG:NH2	1:E:438:SER:O	2.10	0.84
1:U:196:LEU:HD22	1:U:199:LEU:HD13	1.59	0.84

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Z:410:ARG:NH2	1:Z:438:SER:O	2.10	0.84
1:g:410:ARG:NH2	1:g:438:SER:O	2.10	0.84
1:u:410:ARG:NH2	1:u:438:SER:O	2.10	0.84
1:4:196:LEU:HD22	1:4:199:LEU:HD13	1.59	0.84
1:8:410:ARG:NH2	1:8:438:SER:O	2.10	0.84
1:C:410:ARG:NH2	1:C:438:SER:O	2.10	0.84
1:L:410:ARG:NH2	1:L:438:SER:O	2.10	0.84
1:N:410:ARG:NH2	1:N:438:SER:O	2.10	0.84
1:R:196:LEU:HD22	1:R:199:LEU:HD13	1.59	0.84
1:Y:410:ARG:NH2	1:Y:438:SER:O	2.10	0.84
1:h:410:ARG:NH2	1:h:438:SER:O	2.10	0.84
1:s:196:LEU:HD22	1:s:199:LEU:HD13	1.59	0.84
1:K:196:LEU:HD22	1:K:199:LEU:HD13	1.59	0.84
1:b:410:ARG:NH2	1:b:438:SER:O	2.10	0.84
1:q:196:LEU:HD22	1:q:199:LEU:HD13	1.59	0.84
1:M:410:ARG:NH2	1:M:438:SER:O	2.10	0.84
1:N:196:LEU:HD22	1:N:199:LEU:HD13	1.59	0.84
1:7:196:LEU:HD22	1:7:199:LEU:HD13	1.59	0.84
1:Y:196:LEU:HD22	1:Y:199:LEU:HD13	1.59	0.84
1:i:196:LEU:HD22	1:i:199:LEU:HD13	1.59	0.84
1:B:410:ARG:NH2	1:B:438:SER:O	2.10	0.83
1:O:410:ARG:NH2	1:O:438:SER:O	2.10	0.83
1:f:410:ARG:NH2	1:f:438:SER:O	2.10	0.83
1:p:196:LEU:HD22	1:p:199:LEU:HD13	1.59	0.83
1:V:196:LEU:HD22	1:V:199:LEU:HD13	1.59	0.83
1:2:196:LEU:HD22	1:2:199:LEU:HD13	1.59	0.83
1:J:196:LEU:HD22	1:J:199:LEU:HD13	1.59	0.83
1:O:196:LEU:HD22	1:O:199:LEU:HD13	1.59	0.83
1:S:196:LEU:HD22	1:S:199:LEU:HD13	1.59	0.83
1:a:410:ARG:NH2	1:a:438:SER:O	2.10	0.83
1:l:196:LEU:HD22	1:l:199:LEU:HD13	1.59	0.83
1:l:410:ARG:NH2	1:l:438:SER:O	2.10	0.83
1:r:196:LEU:HD22	1:r:199:LEU:HD13	1.59	0.83
1:1:410:ARG:NH2	1:1:438:SER:O	2.10	0.83
1:P:410:ARG:NH2	1:P:438:SER:O	2.10	0.83
1:Q:410:ARG:NH2	1:Q:438:SER:O	2.10	0.83
1:c:196:LEU:HD22	1:c:199:LEU:HD13	1.59	0.83
1:e:196:LEU:HD22	1:e:199:LEU:HD13	1.59	0.83
1:j:410:ARG:NH2	1:j:438:SER:O	2.10	0.83
1:4:410:ARG:NH2	1:4:438:SER:O	2.10	0.83
1:g:196:LEU:HD22	1:g:199:LEU:HD13	1.59	0.83

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:3:410:ARG:NH2	1:3:438:SER:O	2.10	0.83
1:C:196:LEU:HD22	1:C:199:LEU:HD13	1.59	0.83
1:K:410:ARG:NH2	1:K:438:SER:O	2.10	0.83
1:x:410:ARG:NH2	1:x:438:SER:O	2.10	0.83
1:D:196:LEU:HD22	1:D:199:LEU:HD13	1.59	0.83
1:W:196:LEU:HD22	1:W:199:LEU:HD13	1.59	0.83
1:k:196:LEU:HD22	1:k:199:LEU:HD13	1.59	0.83
1:5:196:LEU:HD22	1:5:199:LEU:HD13	1.59	0.83
1:6:196:LEU:HD22	1:6:199:LEU:HD13	1.59	0.83
1:H:196:LEU:HD22	1:H:199:LEU:HD13	1.59	0.83
1:Q:195:ILE:HD11	1:Q:216:ILE:HG22	1.61	0.83
1:t:195:ILE:HD11	1:t:216:ILE:HG22	1.61	0.83
1:G:195:ILE:HD11	1:G:216:ILE:HG22	1.61	0.82
1:c:195:ILE:HD11	1:c:216:ILE:HG22	1.61	0.82
1:e:195:ILE:HD11	1:e:216:ILE:HG22	1.61	0.82
1:x:195:ILE:HD11	1:x:216:ILE:HG22	1.61	0.82
1:F:195:ILE:HD11	1:F:216:ILE:HG22	1.61	0.82
1:a:196:LEU:HD22	1:a:199:LEU:HD13	1.59	0.82
1:C:195:ILE:HD11	1:C:216:ILE:HG22	1.61	0.82
1:w:196:LEU:HD22	1:w:199:LEU:HD13	1.59	0.82
1:y:195:ILE:HD11	1:y:216:ILE:HG22	1.61	0.82
1:3:196:LEU:HD22	1:3:199:LEU:HD13	1.59	0.82
1:A:195:ILE:HD11	1:A:216:ILE:HG22	1.61	0.82
1:E:196:LEU:HD22	1:E:199:LEU:HD13	1.59	0.82
1:U:195:ILE:HD11	1:U:216:ILE:HG22	1.61	0.82
1:f:195:ILE:HD11	1:f:216:ILE:HG22	1.61	0.82
1:g:195:ILE:HD11	1:g:216:ILE:HG22	1.61	0.82
1:s:195:ILE:HD11	1:s:216:ILE:HG22	1.61	0.82
1:v:195:ILE:HD11	1:v:216:ILE:HG22	1.61	0.82
1:b:196:LEU:HD22	1:b:199:LEU:HD13	1.59	0.82
1:Z:196:LEU:HD22	1:Z:199:LEU:HD13	1.59	0.82
1:b:195:ILE:HD11	1:b:216:ILE:HG22	1.61	0.82
1:f:196:LEU:HD22	1:f:199:LEU:HD13	1.59	0.82
1:d:196:LEU:HD22	1:d:199:LEU:HD13	1.59	0.82
1:i:195:ILE:HD11	1:i:216:ILE:HG22	1.61	0.82
1:G:196:LEU:HD22	1:G:199:LEU:HD13	1.59	0.82
1:O:195:ILE:HD11	1:O:216:ILE:HG22	1.61	0.82
1:u:195:ILE:HD11	1:u:216:ILE:HG22	1.61	0.82
1:8:196:LEU:HD22	1:8:199:LEU:HD13	1.59	0.82
1:I:195:ILE:HD11	1:I:216:ILE:HG22	1.61	0.82
1:L:195:ILE:HD11	1:L:216:ILE:HG22	1.61	0.82

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:195:ILE:HD11	1:N:216:ILE:HG22	1.61	0.82
1:Z:195:ILE:HD11	1:Z:216:ILE:HG22	1.61	0.82
1:8:195:ILE:HD11	1:8:216:ILE:HG22	1.61	0.82
1:d:195:ILE:HD11	1:d:216:ILE:HG22	1.61	0.82
1:j:195:ILE:HD11	1:j:216:ILE:HG22	1.61	0.82
1:l:195:ILE:HD11	1:l:216:ILE:HG22	1.61	0.82
1:n:196:LEU:HD22	1:n:199:LEU:HD13	1.59	0.82
1:q:195:ILE:HD11	1:q:216:ILE:HG22	1.61	0.82
1:t:196:LEU:HD22	1:t:199:LEU:HD13	1.59	0.82
1:z:195:ILE:HD11	1:z:216:ILE:HG22	1.61	0.82
1:R:195:ILE:HD11	1:R:216:ILE:HG22	1.61	0.81
1:n:195:ILE:HD11	1:n:216:ILE:HG22	1.61	0.81
1:a:195:ILE:HD11	1:a:216:ILE:HG22	1.61	0.81
1:3:195:ILE:HD11	1:3:216:ILE:HG22	1.61	0.81
1:P:195:ILE:HD11	1:P:216:ILE:HG22	1.61	0.81
1:T:292:SER:HB3	1:d:85:LYS:HE2	1.61	0.81
1:W:195:ILE:HD11	1:W:216:ILE:HG22	1.61	0.81
1:5:195:ILE:HD11	1:5:216:ILE:HG22	1.61	0.81
1:H:195:ILE:HD11	1:H:216:ILE:HG22	1.61	0.81
1:M:195:ILE:HD11	1:M:216:ILE:HG22	1.61	0.81
1:J:195:ILE:HD11	1:J:216:ILE:HG22	1.61	0.81
1:h:195:ILE:HD11	1:h:216:ILE:HG22	1.61	0.81
1:6:195:ILE:HD11	1:6:216:ILE:HG22	1.61	0.81
1:X:195:ILE:HD11	1:X:216:ILE:HG22	1.61	0.81
1:2:195:ILE:HD11	1:2:216:ILE:HG22	1.61	0.81
1:J:318:PRO:HG2	1:J:344:PRO:HG3	1.63	0.81
1:T:195:ILE:HD11	1:T:216:ILE:HG22	1.61	0.81
1:U:318:PRO:HG2	1:U:344:PRO:HG3	1.63	0.81
1:V:318:PRO:HG2	1:V:344:PRO:HG3	1.63	0.81
1:o:195:ILE:HD11	1:o:216:ILE:HG22	1.61	0.81
1:p:318:PRO:HG2	1:p:344:PRO:HG3	1.63	0.81
1:s:318:PRO:HG2	1:s:344:PRO:HG3	1.63	0.81
1:w:195:ILE:HD11	1:w:216:ILE:HG22	1.61	0.81
1:E:195:ILE:HD11	1:E:216:ILE:HG22	1.62	0.81
1:N:318:PRO:HG2	1:N:344:PRO:HG3	1.63	0.81
1:Q:318:PRO:HG2	1:Q:344:PRO:HG3	1.63	0.81
1:i:318:PRO:HG2	1:i:344:PRO:HG3	1.63	0.81
1:r:318:PRO:HG2	1:r:344:PRO:HG3	1.63	0.81
1:2:318:PRO:HG2	1:2:344:PRO:HG3	1.63	0.81
1:A:318:PRO:HG2	1:A:344:PRO:HG3	1.63	0.81
1:S:318:PRO:HG2	1:S:344:PRO:HG3	1.63	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:m:195:ILE:HD11	1:m:216:ILE:HG22	1.61	0.81
1:v:318:PRO:HG2	1:v:344:PRO:HG3	1.63	0.81
1:x:318:PRO:HG2	1:x:344:PRO:HG3	1.63	0.81
1:z:318:PRO:HG2	1:z:344:PRO:HG3	1.63	0.81
1:3:85:LYS:HE2	1:4:292:SER:HB3	1.64	0.81
1:B:195:ILE:HD11	1:B:216:ILE:HG22	1.61	0.80
1:K:292:SER:HB3	1:a:85:LYS:HE2	1.64	0.80
1:L:318:PRO:HG2	1:L:344:PRO:HG3	1.63	0.80
1:d:292:SER:HB3	1:l:85:LYS:HE2	1.62	0.80
1:y:318:PRO:HG2	1:y:344:PRO:HG3	1.63	0.80
1:D:318:PRO:HG2	1:D:344:PRO:HG3	1.63	0.80
1:F:318:PRO:HG2	1:F:344:PRO:HG3	1.63	0.80
1:W:318:PRO:HG2	1:W:344:PRO:HG3	1.63	0.80
1:k:318:PRO:HG2	1:k:344:PRO:HG3	1.63	0.80
1:4:195:ILE:HD11	1:4:216:ILE:HG22	1.61	0.80
1:I:318:PRO:HG2	1:I:344:PRO:HG3	1.63	0.80
1:R:318:PRO:HG2	1:R:344:PRO:HG3	1.63	0.80
1:q:318:PRO:HG2	1:q:344:PRO:HG3	1.63	0.80
1:u:318:PRO:HG2	1:u:344:PRO:HG3	1.63	0.80
1:6:318:PRO:HG2	1:6:344:PRO:HG3	1.63	0.80
1:G:318:PRO:HG2	1:G:344:PRO:HG3	1.63	0.80
1:Y:195:ILE:HD11	1:Y:216:ILE:HG22	1.61	0.80
1:Z:85:LYS:HE2	1:3:292:SER:HB3	1.63	0.80
1:p:195:ILE:HD11	1:p:216:ILE:HG22	1.61	0.80
1:E:292:SER:HB3	1:Q:85:LYS:HE2	1.64	0.80
1:K:195:ILE:HD11	1:K:216:ILE:HG22	1.61	0.80
1:V:195:ILE:HD11	1:V:216:ILE:HG22	1.61	0.80
1:i:292:SER:HB3	1:j:85:LYS:HE2	1.64	0.80
1:w:292:SER:HB3	1:x:85:LYS:HE2	1.64	0.80
1:1:195:ILE:HD11	1:1:216:ILE:HG22	1.61	0.80
1:a:292:SER:HB3	1:8:85:LYS:HE2	1.63	0.80
1:t:318:PRO:HG2	1:t:344:PRO:HG3	1.63	0.80
1:N:292:SER:HB3	1:P:85:LYS:HE2	1.64	0.80
1:Y:318:PRO:HG2	1:Y:344:PRO:HG3	1.63	0.80
1:3:318:PRO:HG2	1:3:344:PRO:HG3	1.63	0.80
1:7:195:ILE:HD11	1:7:216:ILE:HG22	1.61	0.80
1:D:195:ILE:HD11	1:D:216:ILE:HG22	1.61	0.80
1:7:318:PRO:HG2	1:7:344:PRO:HG3	1.63	0.80
1:P:318:PRO:HG2	1:P:344:PRO:HG3	1.63	0.80
1:V:292:SER:HB3	1:e:85:LYS:HE2	1.63	0.80
1:a:318:PRO:HG2	1:a:344:PRO:HG3	1.63	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:c:85:LYS:HE2	1:p:292:SER:HB3	1.63	0.80
1:f:85:LYS:HE2	1:g:292:SER:HB3	1.63	0.80
1:j:318:PRO:HG2	1:j:344:PRO:HG3	1.63	0.80
1:1:318:PRO:HG2	1:1:344:PRO:HG3	1.63	0.80
1:L:498:THR:HG22	1:L:500:LEU:H	1.47	0.80
1:r:195:ILE:HD11	1:r:216:ILE:HG22	1.61	0.80
1:z:498:THR:HG22	1:z:500:LEU:H	1.47	0.80
1:8:498:THR:HG22	1:8:500:LEU:H	1.47	0.80
1:B:318:PRO:HG2	1:B:344:PRO:HG3	1.63	0.79
1:C:292:SER:HB3	1:b:85:LYS:HE2	1.63	0.79
1:H:308:ARG:NH1	1:H:316:THR:O	2.15	0.79
1:I:308:ARG:NH1	1:I:316:THR:O	2.16	0.79
1:J:308:ARG:NH1	1:J:316:THR:O	2.15	0.79
1:O:318:PRO:HG2	1:O:344:PRO:HG3	1.63	0.79
1:S:195:ILE:HD11	1:S:216:ILE:HG22	1.61	0.79
1:T:498:THR:HG22	1:T:500:LEU:H	1.47	0.79
1:Y:308:ARG:NH1	1:Y:316:THR:O	2.15	0.79
1:Z:498:THR:HG22	1:Z:500:LEU:H	1.47	0.79
1:b:308:ARG:NH1	1:b:316:THR:O	2.15	0.79
1:f:308:ARG:NH1	1:f:316:THR:O	2.15	0.79
1:g:318:PRO:HG2	1:g:344:PRO:HG3	1.63	0.79
1:h:308:ARG:NH1	1:h:316:THR:O	2.15	0.79
1:k:195:ILE:HD11	1:k:216:ILE:HG22	1.61	0.79
1:m:498:THR:HG22	1:m:500:LEU:H	1.47	0.79
1:n:498:THR:HG22	1:n:500:LEU:H	1.47	0.79
1:w:85:LYS:HE2	1:y:292:SER:HB3	1.64	0.79
1:2:308:ARG:NH1	1:2:316:THR:O	2.15	0.79
1:5:308:ARG:NH1	1:5:316:THR:O	2.15	0.79
1:7:308:ARG:NH1	1:7:316:THR:O	2.15	0.79
1:8:308:ARG:NH1	1:8:316:THR:O	2.15	0.79
1:B:292:SER:HB3	1:J:85:LYS:HE2	1.64	0.79
1:B:498:THR:HG22	1:B:500:LEU:H	1.47	0.79
1:C:318:PRO:HG2	1:C:344:PRO:HG3	1.63	0.79
1:C:498:THR:HG22	1:C:500:LEU:H	1.47	0.79
1:D:85:LYS:HE2	1:P:292:SER:HB3	1.64	0.79
1:E:85:LYS:HE2	1:F:292:SER:HB3	1.64	0.79
1:H:318:PRO:HG2	1:H:344:PRO:HG3	1.63	0.79
1:M:308:ARG:NH1	1:M:316:THR:O	2.15	0.79
1:O:308:ARG:NH1	1:O:316:THR:O	2.15	0.79
1:P:308:ARG:NH1	1:P:316:THR:O	2.15	0.79
1:R:308:ARG:NH1	1:R:316:THR:O	2.15	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:X:318:PRO:HG2	1:X:344:PRO:HG3	1.63	0.79
1:Y:498:THR:HG22	1:Y:500:LEU:H	1.47	0.79
1:Z:308:ARG:NH1	1:Z:316:THR:O	2.15	0.79
1:d:308:ARG:NH1	1:d:316:THR:O	2.15	0.79
1:d:498:THR:HG22	1:d:500:LEU:H	1.47	0.79
1:g:498:THR:HG22	1:g:500:LEU:H	1.47	0.79
1:h:498:THR:HG22	1:h:500:LEU:H	1.47	0.79
1:j:308:ARG:NH1	1:j:316:THR:O	2.15	0.79
1:l:308:ARG:NH1	1:l:316:THR:O	2.15	0.79
1:q:308:ARG:NH1	1:q:316:THR:O	2.15	0.79
1:u:308:ARG:NH1	1:u:316:THR:O	2.16	0.79
1:x:292:SER:HB3	1:y:85:LYS:HE2	1.64	0.79
1:1:292:SER:HB3	1:2:85:LYS:HE2	1.64	0.79
1:1:498:THR:HG22	1:1:500:LEU:H	1.47	0.79
1:5:318:PRO:HG2	1:5:344:PRO:HG3	1.63	0.79
1:7:498:THR:HG22	1:7:500:LEU:H	1.47	0.79
1:I:498:THR:HG22	1:I:500:LEU:H	1.47	0.79
1:M:318:PRO:HG2	1:M:344:PRO:HG3	1.63	0.79
1:M:498:THR:HG22	1:M:500:LEU:H	1.47	0.79
1:O:498:THR:HG22	1:O:500:LEU:H	1.47	0.79
1:Q:498:THR:HG22	1:Q:500:LEU:H	1.47	0.79
1:d:318:PRO:HG2	1:d:344:PRO:HG3	1.63	0.79
1:j:292:SER:HB3	1:k:85:LYS:HE2	1.64	0.79
1:l:318:PRO:HG2	1:l:344:PRO:HG3	1.63	0.79
1:m:292:SER:HB3	1:n:85:LYS:HE2	1.63	0.79
1:n:308:ARG:NH1	1:n:316:THR:O	2.15	0.79
1:x:498:THR:HG22	1:x:500:LEU:H	1.47	0.79
1:A:308:ARG:NH1	1:A:316:THR:O	2.15	0.79
1:F:85:LYS:HE2	1:Q:292:SER:HB3	1.64	0.79
1:G:292:SER:HB3	1:I:85:LYS:HE2	1.64	0.79
1:R:292:SER:HB3	1:S:85:LYS:HE2	1.64	0.79
1:l:498:THR:HG22	1:l:500:LEU:H	1.47	0.79
1:o:318:PRO:HG2	1:o:344:PRO:HG3	1.63	0.79
1:q:292:SER:HB3	1:r:85:LYS:HE2	1.64	0.79
1:t:292:SER:HB3	1:u:85:LYS:HE2	1.64	0.79
1:u:498:THR:HG22	1:u:500:LEU:H	1.47	0.79
1:v:308:ARG:NH1	1:v:316:THR:O	2.15	0.79
1:1:308:ARG:NH1	1:1:316:THR:O	2.15	0.79
1:B:308:ARG:NH1	1:B:316:THR:O	2.15	0.79
1:V:85:LYS:HE2	1:X:292:SER:HB3	1.64	0.79
1:h:318:PRO:HG2	1:h:344:PRO:HG3	1.63	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:t:308:ARG:NH1	1:t:316:THR:O	2.16	0.79
1:A:292:SER:HB3	1:G:85:LYS:HE2	1.64	0.79
1:D:498:THR:HG22	1:D:500:LEU:H	1.47	0.79
1:G:308:ARG:NH1	1:G:316:THR:O	2.16	0.79
1:n:318:PRO:HG2	1:n:344:PRO:HG3	1.63	0.79
1:t:498:THR:HG22	1:t:500:LEU:H	1.47	0.79
1:6:498:THR:HG22	1:6:500:LEU:H	1.47	0.79
1:D:292:SER:HB3	1:N:85:LYS:HE2	1.64	0.79
1:G:498:THR:HG22	1:G:500:LEU:H	1.47	0.79
1:H:85:LYS:HE2	1:Y:292:SER:HB3	1.64	0.79
1:K:318:PRO:HG2	1:K:344:PRO:HG3	1.63	0.79
1:O:85:LYS:HE2	1:n:292:SER:HB3	1.63	0.79
1:U:498:THR:HG22	1:U:500:LEU:H	1.47	0.79
1:W:498:THR:HG22	1:W:500:LEU:H	1.47	0.79
1:Z:292:SER:HB3	1:4:85:LYS:HE2	1.64	0.79
1:c:292:SER:HB3	1:o:85:LYS:HE2	1.63	0.79
1:k:498:THR:HG22	1:k:500:LEU:H	1.47	0.79
1:t:85:LYS:HE2	1:v:292:SER:HB3	1.64	0.79
1:4:318:PRO:HG2	1:4:344:PRO:HG3	1.63	0.79
1:5:498:THR:HG22	1:5:500:LEU:H	1.47	0.79
1:E:308:ARG:NH1	1:E:316:THR:O	2.16	0.79
1:H:292:SER:HB3	1:W:85:LYS:HE2	1.64	0.79
1:a:308:ARG:NH1	1:a:316:THR:O	2.15	0.79
1:c:308:ARG:NH1	1:c:316:THR:O	2.15	0.79
1:e:318:PRO:HG2	1:e:344:PRO:HG3	1.63	0.79
1:f:318:PRO:HG2	1:f:344:PRO:HG3	1.63	0.79
1:o:292:SER:HB3	1:p:85:LYS:HE2	1.64	0.79
1:o:498:THR:HG22	1:o:500:LEU:H	1.47	0.79
1:s:498:THR:HG22	1:s:500:LEU:H	1.47	0.79
1:x:308:ARG:NH1	1:x:316:THR:O	2.16	0.79
1:3:308:ARG:NH1	1:3:316:THR:O	2.15	0.79
1:5:292:SER:HB3	1:6:85:LYS:HE2	1.64	0.79
1:H:498:THR:HG22	1:H:500:LEU:H	1.47	0.79
1:K:85:LYS:HE2	1:8:292:SER:HB3	1.64	0.79
1:Q:308:ARG:NH1	1:Q:316:THR:O	2.16	0.79
1:S:292:SER:HB3	1:U:85:LYS:HE2	1.64	0.79
1:S:308:ARG:NH1	1:S:316:THR:O	2.16	0.79
1:e:308:ARG:NH1	1:e:316:THR:O	2.15	0.79
1:i:85:LYS:HE2	1:k:292:SER:HB3	1.64	0.79
1:o:308:ARG:NH1	1:o:316:THR:O	2.15	0.79
1:r:292:SER:HB3	1:s:85:LYS:HE2	1.64	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:w:308:ARG:NH1	1:w:316:THR:O	2.16	0.79
1:R:498:THR:HG22	1:R:500:LEU:H	1.47	0.79
1:W:308:ARG:NH1	1:W:316:THR:O	2.15	0.79
1:X:498:THR:HG22	1:X:500:LEU:H	1.47	0.79
1:b:318:PRO:HG2	1:b:344:PRO:HG3	1.63	0.79
1:i:308:ARG:NH1	1:i:316:THR:O	2.15	0.79
1:j:498:THR:HG22	1:j:500:LEU:H	1.47	0.79
1:r:308:ARG:NH1	1:r:316:THR:O	2.15	0.79
1:r:498:THR:HG22	1:r:500:LEU:H	1.47	0.79
1:v:498:THR:HG22	1:v:500:LEU:H	1.47	0.79
1:w:318:PRO:HG2	1:w:344:PRO:HG3	1.63	0.79
1:3:498:THR:HG22	1:3:500:LEU:H	1.47	0.79
1:5:85:LYS:HE2	1:7:292:SER:HB3	1.64	0.79
1:K:308:ARG:NH1	1:K:316:THR:O	2.15	0.78
1:X:308:ARG:NH1	1:X:316:THR:O	2.15	0.78
1:c:318:PRO:HG2	1:c:344:PRO:HG3	1.63	0.78
1:m:318:PRO:HG2	1:m:344:PRO:HG3	1.63	0.78
1:q:498:THR:HG22	1:q:500:LEU:H	1.47	0.78
1:4:308:ARG:NH1	1:4:316:THR:O	2.15	0.78
1:8:318:PRO:HG2	1:8:344:PRO:HG3	1.63	0.78
1:N:308:ARG:NH1	1:N:316:THR:O	2.15	0.78
1:O:292:SER:HB3	1:m:85:LYS:HE2	1.64	0.78
1:P:498:THR:HG22	1:P:500:LEU:H	1.47	0.78
1:S:498:THR:HG22	1:S:500:LEU:H	1.47	0.78
1:T:85:LYS:HE2	1:l:292:SER:HB3	1.64	0.78
1:T:308:ARG:NH1	1:T:316:THR:O	2.15	0.78
1:V:498:THR:HG22	1:V:500:LEU:H	1.47	0.78
1:W:292:SER:HB3	1:Y:85:LYS:HE2	1.64	0.78
1:Z:318:PRO:HG2	1:Z:344:PRO:HG3	1.63	0.78
1:a:498:THR:HG22	1:a:500:LEU:H	1.47	0.78
1:f:292:SER:HB3	1:h:85:LYS:HE2	1.63	0.78
1:6:292:SER:HB3	1:7:85:LYS:HE2	1.64	0.78
1:6:308:ARG:NH1	1:6:316:THR:O	2.15	0.78
1:A:498:THR:HG22	1:A:500:LEU:H	1.47	0.78
1:M:85:LYS:HE2	1:b:292:SER:HB3	1.63	0.78
1:p:498:THR:HG22	1:p:500:LEU:H	1.47	0.78
1:E:318:PRO:HG2	1:E:344:PRO:HG3	1.63	0.78
1:T:318:PRO:HG2	1:T:344:PRO:HG3	1.63	0.78
1:m:308:ARG:NH1	1:m:316:THR:O	2.15	0.78
1:q:85:LYS:HE2	1:s:292:SER:HB3	1.64	0.78
1:u:292:SER:HB3	1:v:85:LYS:HE2	1.64	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:z:85:LYS:HE2	1:2:292:SER:HB3	1.64	0.78
1:J:292:SER:HB3	1:L:85:LYS:HE2	1.64	0.78
1:c:498:THR:HG22	1:c:500:LEU:H	1.47	0.78
1:g:308:ARG:NH1	1:g:316:THR:O	2.16	0.78
1:k:308:ARG:NH1	1:k:316:THR:O	2.15	0.78
1:C:308:ARG:NH1	1:C:316:THR:O	2.16	0.78
1:D:308:ARG:NH1	1:D:316:THR:O	2.15	0.78
1:J:498:THR:HG22	1:J:500:LEU:H	1.47	0.78
1:e:498:THR:HG22	1:e:500:LEU:H	1.47	0.78
1:i:498:THR:HG22	1:i:500:LEU:H	1.47	0.78
1:A:85:LYS:HE2	1:I:292:SER:HB3	1.64	0.78
1:F:308:ARG:NH1	1:F:316:THR:O	2.15	0.78
1:N:498:THR:HG22	1:N:500:LEU:H	1.47	0.78
1:R:85:LYS:HE2	1:U:292:SER:HB3	1.64	0.78
1:X:85:LYS:HE2	1:e:292:SER:HB3	1.64	0.78
1:y:308:ARG:NH1	1:y:316:THR:O	2.15	0.78
1:C:85:LYS:HE2	1:M:292:SER:HB3	1.64	0.78
1:V:308:ARG:NH1	1:V:316:THR:O	2.15	0.78
1:p:308:ARG:NH1	1:p:316:THR:O	2.16	0.78
1:2:498:THR:HG22	1:2:500:LEU:H	1.47	0.78
1:L:308:ARG:NH1	1:L:316:THR:O	2.15	0.78
1:z:308:ARG:NH1	1:z:316:THR:O	2.15	0.78
1:U:308:ARG:NH1	1:U:316:THR:O	2.15	0.77
1:s:308:ARG:NH1	1:s:316:THR:O	2.15	0.77
1:F:498:THR:HG22	1:F:500:LEU:H	1.47	0.77
1:g:85:LYS:HE2	1:h:292:SER:HB3	1.64	0.77
1:y:498:THR:HG22	1:y:500:LEU:H	1.47	0.77
1:E:498:THR:HG22	1:E:500:LEU:H	1.47	0.77
1:b:498:THR:HG22	1:b:500:LEU:H	1.47	0.77
1:f:498:THR:HG22	1:f:500:LEU:H	1.47	0.77
1:w:498:THR:HG22	1:w:500:LEU:H	1.47	0.77
1:z:292:SER:HB3	1:1:85:LYS:HE2	1.64	0.77
1:4:498:THR:HG22	1:4:500:LEU:H	1.47	0.77
1:B:85:LYS:HE2	1:L:292:SER:HB3	1.64	0.77
1:K:498:THR:HG22	1:K:500:LEU:H	1.47	0.77
1:d:494:GLU:HG3	1:n:109:GLN:HE22	1.52	0.75
1:F:67:GLN:HE21	1:F:189:GLN:HB2	1.52	0.75
1:m:67:GLN:HE21	1:m:189:GLN:HB2	1.52	0.75
1:y:67:GLN:HE21	1:y:189:GLN:HB2	1.52	0.75
1:E:67:GLN:HE21	1:E:189:GLN:HB2	1.52	0.74
1:P:67:GLN:HE21	1:P:189:GLN:HB2	1.52	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:T:67:GLN:HE21	1:T:189:GLN:HB2	1.52	0.74
1:j:67:GLN:HE21	1:j:189:GLN:HB2	1.52	0.74
1:q:67:GLN:HE21	1:q:189:GLN:HB2	1.52	0.74
1:w:67:GLN:HE21	1:w:189:GLN:HB2	1.52	0.74
1:C:67:GLN:HE21	1:C:189:GLN:HB2	1.52	0.74
1:R:67:GLN:HE21	1:R:189:GLN:HB2	1.52	0.74
1:Z:67:GLN:HE21	1:Z:189:GLN:HB2	1.52	0.74
1:7:67:GLN:HE21	1:7:189:GLN:HB2	1.52	0.74
1:8:67:GLN:HE21	1:8:189:GLN:HB2	1.52	0.74
1:V:67:GLN:HE21	1:V:189:GLN:HB2	1.52	0.74
1:Y:67:GLN:HE21	1:Y:189:GLN:HB2	1.52	0.74
1:g:67:GLN:HE21	1:g:189:GLN:HB2	1.52	0.74
1:p:67:GLN:HE21	1:p:189:GLN:HB2	1.52	0.74
1:s:67:GLN:HE21	1:s:189:GLN:HB2	1.52	0.74
1:U:67:GLN:HE21	1:U:189:GLN:HB2	1.52	0.74
1:X:67:GLN:HE21	1:X:189:GLN:HB2	1.52	0.74
1:d:109:GLN:HE22	1:n:494:GLU:HG3	1.52	0.74
1:u:67:GLN:HE21	1:u:189:GLN:HB2	1.52	0.74
1:1:67:GLN:HE21	1:1:189:GLN:HB2	1.52	0.74
1:I:67:GLN:HE21	1:I:189:GLN:HB2	1.52	0.74
1:O:67:GLN:HE21	1:O:189:GLN:HB2	1.52	0.74
1:o:67:GLN:HE21	1:o:189:GLN:HB2	1.52	0.74
1:2:67:GLN:HE21	1:2:189:GLN:HB2	1.52	0.74
1:B:67:GLN:HE21	1:B:189:GLN:HB2	1.52	0.74
1:k:67:GLN:HE21	1:k:189:GLN:HB2	1.52	0.74
1:D:67:GLN:HE21	1:D:189:GLN:HB2	1.52	0.74
1:J:67:GLN:HE21	1:J:189:GLN:HB2	1.52	0.74
1:l:67:GLN:HE21	1:l:189:GLN:HB2	1.52	0.74
1:e:109:GLN:HE22	1:f:494:GLU:HG3	1.53	0.74
1:N:67:GLN:HE21	1:N:189:GLN:HB2	1.52	0.74
1:A:180:LEU:HB2	1:A:183:LYS:HG2	1.70	0.73
1:a:67:GLN:HE21	1:a:189:GLN:HB2	1.52	0.73
1:b:494:GLU:HG3	1:c:109:GLN:HE22	1.53	0.73
1:c:67:GLN:HE21	1:c:189:GLN:HB2	1.52	0.73
1:e:67:GLN:HE21	1:e:189:GLN:HB2	1.52	0.73
1:v:180:LEU:HB2	1:v:183:LYS:HG2	1.70	0.73
1:i:67:GLN:HE21	1:i:189:GLN:HB2	1.52	0.73
1:q:109:GLN:HE22	1:x:494:GLU:HG3	1.53	0.73
1:Q:494:GLU:HG3	1:R:109:GLN:HE22	1.53	0.73
1:S:109:GLN:HE22	1:T:494:GLU:HG3	1.53	0.73
1:d:498:THR:HG23	1:n:496:ARG:H	1.53	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:p:180:LEU:HB2	1:p:183:LYS:HG2	1.71	0.73
1:3:67:GLN:HE21	1:3:189:GLN:HB2	1.52	0.73
1:H:180:LEU:HB2	1:H:183:LYS:HG2	1.70	0.73
1:T:180:LEU:HB2	1:T:183:LYS:HG2	1.71	0.73
1:m:180:LEU:HB2	1:m:183:LYS:HG2	1.71	0.73
1:m:494:GLU:HG3	1:r:109:GLN:HE22	1.54	0.73
1:N:109:GLN:HE22	1:O:494:GLU:HG3	1.54	0.73
1:N:180:LEU:HB2	1:N:183:LYS:HG2	1.70	0.73
1:V:180:LEU:HB2	1:V:183:LYS:HG2	1.71	0.73
1:Y:109:GLN:HE22	1:Z:494:GLU:HG3	1.54	0.73
1:5:180:LEU:HB2	1:5:183:LYS:HG2	1.70	0.73
1:A:494:GLU:HG3	1:F:109:GLN:HE22	1.53	0.73
1:C:109:GLN:HE22	1:L:494:GLU:HG3	1.54	0.73
1:U:109:GLN:HE22	1:V:494:GLU:HG3	1.53	0.73
1:7:109:GLN:HE22	1:8:494:GLU:HG3	1.54	0.73
1:W:67:GLN:HE21	1:W:189:GLN:HB2	1.52	0.73
1:d:180:LEU:HB2	1:d:183:LYS:HG2	1.70	0.73
1:g:109:GLN:HE22	1:z:494:GLU:HG3	1.54	0.73
1:g:498:THR:HG23	1:z:496:ARG:H	1.54	0.73
1:i:180:LEU:HB2	1:i:183:LYS:HG2	1.70	0.73
1:B:180:LEU:HB2	1:B:183:LYS:HG2	1.71	0.73
1:C:498:THR:HG23	1:L:496:ARG:H	1.54	0.73
1:W:494:GLU:HG3	1:X:109:GLN:HE22	1.53	0.73
1:i:494:GLU:HG3	1:l:109:GLN:HE22	1.54	0.73
1:o:109:GLN:HE22	1:6:494:GLU:HG3	1.53	0.73
1:p:494:GLU:HG3	1:s:109:GLN:HE22	1.53	0.73
1:6:67:GLN:HE21	1:6:189:GLN:HB2	1.52	0.73
1:E:180:LEU:HB2	1:E:183:LYS:HG2	1.71	0.73
1:K:67:GLN:HE21	1:K:189:GLN:HB2	1.52	0.73
1:N:494:GLU:HG3	1:O:109:GLN:HE22	1.54	0.73
1:b:67:GLN:HE21	1:b:189:GLN:HB2	1.52	0.73
1:h:180:LEU:HB2	1:h:183:LYS:HG2	1.70	0.73
1:i:109:GLN:HE22	1:l:494:GLU:HG3	1.54	0.73
1:r:180:LEU:HB2	1:r:183:LYS:HG2	1.70	0.73
1:v:109:GLN:HE22	1:y:494:GLU:HG3	1.53	0.73
1:1:180:LEU:HB2	1:1:183:LYS:HG2	1.71	0.73
1:M:180:LEU:HB2	1:M:183:LYS:HG2	1.70	0.73
1:S:180:LEU:HB2	1:S:183:LYS:HG2	1.70	0.73
1:S:494:GLU:HG3	1:T:109:GLN:HE22	1.54	0.73
1:d:67:GLN:HE21	1:d:189:GLN:HB2	1.52	0.73
1:f:67:GLN:HE21	1:f:189:GLN:HB2	1.52	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:n:180:LEU:HB2	1:n:183:LYS:HG2	1.71	0.73
1:w:180:LEU:HB2	1:w:183:LYS:HG2	1.71	0.73
1:C:180:LEU:HB2	1:C:183:LYS:HG2	1.71	0.72
1:D:494:GLU:HG3	1:M:109:GLN:HE22	1.53	0.72
1:E:494:GLU:HG3	1:P:109:GLN:HE22	1.54	0.72
1:c:180:LEU:HB2	1:c:183:LYS:HG2	1.70	0.72
1:j:109:GLN:HE22	1:w:494:GLU:HG3	1.54	0.72
1:v:494:GLU:HG3	1:y:109:GLN:HE22	1.53	0.72
1:4:67:GLN:HE21	1:4:189:GLN:HB2	1.52	0.72
1:V:188:PHE:CD1	1:X:267:VAL:HG12	2.25	0.72
1:X:180:LEU:HB2	1:X:183:LYS:HG2	1.70	0.72
1:e:180:LEU:HB2	1:e:183:LYS:HG2	1.70	0.72
1:g:180:LEU:HB2	1:g:183:LYS:HG2	1.71	0.72
1:m:109:GLN:HE22	1:r:494:GLU:HG3	1.54	0.72
1:z:67:GLN:HE21	1:z:189:GLN:HB2	1.52	0.72
1:2:109:GLN:HE22	1:4:494:GLU:HG3	1.54	0.72
1:A:109:GLN:HE22	1:F:494:GLU:HG3	1.54	0.72
1:f:180:LEU:HB2	1:f:183:LYS:HG2	1.70	0.72
1:h:109:GLN:HE22	1:k:494:GLU:HG3	1.53	0.72
1:o:180:LEU:HB2	1:o:183:LYS:HG2	1.70	0.72
1:v:67:GLN:HE21	1:v:189:GLN:HB2	1.52	0.72
1:7:494:GLU:HG3	1:8:109:GLN:HE22	1.54	0.72
1:D:267:VAL:HG12	1:N:188:PHE:CD1	2.25	0.72
1:J:109:GLN:HE22	1:K:494:GLU:HG3	1.54	0.72
1:L:67:GLN:HE21	1:L:189:GLN:HB2	1.52	0.72
1:Y:494:GLU:HG3	1:Z:109:GLN:HE22	1.54	0.72
1:a:109:GLN:HE22	1:3:494:GLU:HG3	1.53	0.72
1:b:180:LEU:HB2	1:b:183:LYS:HG2	1.71	0.72
1:i:188:PHE:CD1	1:k:267:VAL:HG12	2.25	0.72
1:l:180:LEU:HB2	1:l:183:LYS:HG2	1.71	0.72
1:n:67:GLN:HE21	1:n:189:GLN:HB2	1.52	0.72
1:o:267:VAL:HG12	1:p:188:PHE:CD1	2.25	0.72
1:p:109:GLN:HE22	1:s:494:GLU:HG3	1.54	0.72
1:x:67:GLN:HE21	1:x:189:GLN:HB2	1.52	0.72
1:x:180:LEU:HB2	1:x:183:LYS:HG2	1.71	0.72
1:G:109:GLN:HE22	1:H:494:GLU:HG3	1.54	0.72
1:J:258:PRO:HD2	1:J:261:LEU:HD12	1.72	0.72
1:O:267:VAL:HG12	1:m:188:PHE:CD1	2.25	0.72
1:Q:180:LEU:HB2	1:Q:183:LYS:HG2	1.71	0.72
1:T:188:PHE:CD1	1:l:267:VAL:HG12	2.25	0.72
1:W:496:ARG:H	1:X:498:THR:HG23	1.55	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Z:188:PHE:CD1	1:3:267:VAL:HG12	2.25	0.72
1:a:180:LEU:HB2	1:a:183:LYS:HG2	1.70	0.72
1:a:267:VAL:HG12	1:8:188:PHE:CD1	2.25	0.72
1:a:494:GLU:HG3	1:3:109:GLN:HE22	1.53	0.72
1:g:494:GLU:HG3	1:z:109:GLN:HE22	1.53	0.72
1:h:258:PRO:HD2	1:h:261:LEU:HD12	1.72	0.72
1:i:498:THR:HG23	1:l:496:ARG:H	1.55	0.72
1:o:498:THR:HG23	1:6:496:ARG:H	1.55	0.72
1:2:258:PRO:HD2	1:2:261:LEU:HD12	1.72	0.72
1:A:67:GLN:HE21	1:A:189:GLN:HB2	1.52	0.72
1:A:267:VAL:HG12	1:G:188:PHE:CD1	2.25	0.72
1:C:258:PRO:HD2	1:C:261:LEU:HD12	1.72	0.72
1:D:109:GLN:HE22	1:M:494:GLU:HG3	1.54	0.72
1:G:67:GLN:HE21	1:G:189:GLN:HB2	1.52	0.72
1:M:258:PRO:HD2	1:M:261:LEU:HD12	1.72	0.72
1:O:180:LEU:HB2	1:O:183:LYS:HG2	1.70	0.72
1:U:494:GLU:HG3	1:V:109:GLN:HE22	1.54	0.72
1:d:493:PRO:HD3	1:n:108:PRO:HB2	1.71	0.72
1:d:496:ARG:H	1:n:498:THR:HG23	1.54	0.72
1:g:258:PRO:HD2	1:g:261:LEU:HD12	1.72	0.72
1:h:494:GLU:HG3	1:k:109:GLN:HE22	1.54	0.72
1:t:188:PHE:CD1	1:v:267:VAL:HG12	2.25	0.72
1:3:180:LEU:HB2	1:3:183:LYS:HG2	1.70	0.72
1:C:494:GLU:HG3	1:L:109:GLN:HE22	1.53	0.72
1:H:258:PRO:HD2	1:H:261:LEU:HD12	1.72	0.72
1:M:67:GLN:HE21	1:M:189:GLN:HB2	1.52	0.72
1:N:498:THR:HG23	1:O:496:ARG:H	1.55	0.72
1:R:267:VAL:HG12	1:S:188:PHE:CD1	2.25	0.72
1:S:67:GLN:HE21	1:S:189:GLN:HB2	1.52	0.72
1:S:496:ARG:H	1:T:498:THR:HG23	1.55	0.72
1:g:188:PHE:CD1	1:h:267:VAL:HG12	2.25	0.72
1:q:267:VAL:HG12	1:r:188:PHE:CD1	2.25	0.72
1:t:109:GLN:HE22	1:5:494:GLU:HG3	1.54	0.72
1:z:188:PHE:CD1	1:2:267:VAL:HG12	2.25	0.72
1:4:258:PRO:HD2	1:4:261:LEU:HD12	1.72	0.72
1:5:258:PRO:HD2	1:5:261:LEU:HD12	1.72	0.72
1:J:267:VAL:HG12	1:L:188:PHE:CD1	2.25	0.72
1:K:258:PRO:HD2	1:K:261:LEU:HD12	1.72	0.72
1:Q:67:GLN:HE21	1:Q:189:GLN:HB2	1.52	0.72
1:V:258:PRO:HD2	1:V:261:LEU:HD12	1.72	0.72
1:j:494:GLU:HG3	1:w:109:GLN:HE22	1.54	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:m:498:THR:HG23	1:r:496:ARG:H	1.54	0.72
1:s:180:LEU:HB2	1:s:183:LYS:HG2	1.70	0.72
1:t:67:GLN:HE21	1:t:189:GLN:HB2	1.52	0.72
1:z:267:VAL:HG12	1:1:188:PHE:CD1	2.25	0.72
1:B:188:PHE:CD1	1:L:267:VAL:HG12	2.25	0.72
1:B:498:THR:HG23	1:I:496:ARG:H	1.55	0.72
1:C:188:PHE:CD1	1:M:267:VAL:HG12	2.25	0.72
1:E:109:GLN:HE22	1:P:494:GLU:HG3	1.54	0.72
1:O:188:PHE:CD1	1:n:267:VAL:HG12	2.25	0.72
1:P:180:LEU:HB2	1:P:183:LYS:HG2	1.70	0.72
1:Q:496:ARG:H	1:R:498:THR:HG23	1.55	0.72
1:S:267:VAL:HG12	1:U:188:PHE:CD1	2.25	0.72
1:j:496:ARG:H	1:w:498:THR:HG23	1.55	0.72
1:r:267:VAL:HG12	1:s:188:PHE:CD1	2.25	0.72
1:u:109:GLN:HE22	1:1:494:GLU:HG3	1.54	0.72
1:u:496:ARG:H	1:1:498:THR:HG23	1.55	0.72
1:5:188:PHE:CD1	1:7:267:VAL:HG12	2.25	0.72
1:6:258:PRO:HD2	1:6:261:LEU:HD12	1.72	0.72
1:7:498:THR:HG23	1:8:496:ARG:H	1.55	0.72
1:D:498:THR:HG23	1:M:496:ARG:H	1.54	0.72
1:H:188:PHE:CD1	1:Y:267:VAL:HG12	2.25	0.72
1:J:498:THR:HG23	1:K:496:ARG:H	1.54	0.72
1:N:496:ARG:H	1:O:498:THR:HG23	1.55	0.72
1:O:258:PRO:HD2	1:O:261:LEU:HD12	1.72	0.72
1:R:180:LEU:HB2	1:R:183:LYS:HG2	1.71	0.72
1:W:258:PRO:HD2	1:W:261:LEU:HD12	1.72	0.72
1:Y:498:THR:HG23	1:Z:496:ARG:H	1.55	0.72
1:m:267:VAL:HG12	1:n:188:PHE:CD1	2.25	0.72
1:p:258:PRO:HD2	1:p:261:LEU:HD12	1.72	0.72
1:r:67:GLN:HE21	1:r:189:GLN:HB2	1.52	0.72
1:1:258:PRO:HD2	1:1:261:LEU:HD12	1.72	0.72
1:2:180:LEU:HB2	1:2:183:LYS:HG2	1.70	0.72
1:5:67:GLN:HE21	1:5:189:GLN:HB2	1.52	0.72
1:B:267:VAL:HG12	1:J:188:PHE:CD1	2.25	0.71
1:E:498:THR:HG23	1:P:496:ARG:H	1.55	0.71
1:J:180:LEU:HB2	1:J:183:LYS:HG2	1.70	0.71
1:N:267:VAL:HG12	1:P:188:PHE:CD1	2.25	0.71
1:R:188:PHE:CD1	1:U:267:VAL:HG12	2.25	0.71
1:U:180:LEU:HB2	1:U:183:LYS:HG2	1.70	0.71
1:Z:180:LEU:HB2	1:Z:183:LYS:HG2	1.70	0.71
1:b:109:GLN:HE22	1:c:494:GLU:HG3	1.53	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:h:496:ARG:H	1:k:498:THR:HG23	1.54	0.71
1:i:267:VAL:HG12	1:j:188:PHE:CD1	2.25	0.71
1:j:180:LEU:HB2	1:j:183:LYS:HG2	1.70	0.71
1:q:258:PRO:HD2	1:q:261:LEU:HD12	1.72	0.71
1:q:498:THR:HG23	1:x:496:ARG:H	1.55	0.71
1:u:498:THR:HG23	1:1:496:ARG:H	1.55	0.71
1:2:498:THR:HG23	1:4:496:ARG:H	1.54	0.71
1:7:496:ARG:H	1:8:498:THR:HG23	1.55	0.71
1:8:180:LEU:HB2	1:8:183:LYS:HG2	1.71	0.71
1:B:258:PRO:HD2	1:B:261:LEU:HD12	1.72	0.71
1:B:494:GLU:HG3	1:I:109:GLN:HE22	1.54	0.71
1:B:496:ARG:H	1:I:498:THR:HG23	1.55	0.71
1:C:267:VAL:HG12	1:b:188:PHE:CD1	2.25	0.71
1:F:180:LEU:HB2	1:F:183:LYS:HG2	1.70	0.71
1:T:361:GLN:HG2	1:T:524:GLN:HB3	1.73	0.71
1:Y:496:ARG:H	1:Z:498:THR:HG23	1.55	0.71
1:a:496:ARG:H	1:3:498:THR:HG23	1.54	0.71
1:h:67:GLN:HE21	1:h:189:GLN:HB2	1.52	0.71
1:j:267:VAL:HG12	1:k:188:PHE:CD1	2.25	0.71
1:k:180:LEU:HB2	1:k:183:LYS:HG2	1.71	0.71
1:l:258:PRO:HD2	1:l:261:LEU:HD12	1.72	0.71
1:q:180:LEU:HB2	1:q:183:LYS:HG2	1.71	0.71
1:q:188:PHE:CD1	1:s:267:VAL:HG12	2.25	0.71
1:t:180:LEU:HB2	1:t:183:LYS:HG2	1.71	0.71
1:u:494:GLU:HG3	1:1:109:GLN:HE22	1.53	0.71
1:y:180:LEU:HB2	1:y:183:LYS:HG2	1.70	0.71
1:1:267:VAL:HG12	1:2:188:PHE:CD1	2.25	0.71
1:D:180:LEU:HB2	1:D:183:LYS:HG2	1.71	0.71
1:G:180:LEU:HB2	1:G:183:LYS:HG2	1.71	0.71
1:G:267:VAL:HG12	1:I:188:PHE:CD1	2.25	0.71
1:H:67:GLN:HE21	1:H:189:GLN:HB2	1.52	0.71
1:L:180:LEU:HB2	1:L:183:LYS:HG2	1.70	0.71
1:R:258:PRO:HD2	1:R:261:LEU:HD12	1.72	0.71
1:T:258:PRO:HD2	1:T:261:LEU:HD12	1.72	0.71
1:U:496:ARG:H	1:V:498:THR:HG23	1.54	0.71
1:f:188:PHE:CD1	1:g:267:VAL:HG12	2.25	0.71
1:f:258:PRO:HD2	1:f:261:LEU:HD12	1.72	0.71
1:m:258:PRO:HD2	1:m:261:LEU:HD12	1.72	0.71
1:m:361:GLN:HG2	1:m:524:GLN:HB3	1.73	0.71
1:w:361:GLN:HG2	1:w:524:GLN:HB3	1.73	0.71
1:B:109:GLN:HE22	1:I:494:GLU:HG3	1.53	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:188:PHE:CD1	1:P:267:VAL:HG12	2.25	0.71
1:E:361:GLN:HG2	1:E:524:GLN:HB3	1.73	0.71
1:J:361:GLN:HG2	1:J:524:GLN:HB3	1.73	0.71
1:K:180:LEU:HB2	1:K:183:LYS:HG2	1.71	0.71
1:N:361:GLN:HG2	1:N:524:GLN:HB3	1.73	0.71
1:Y:180:LEU:HB2	1:Y:183:LYS:HG2	1.70	0.71
1:Z:258:PRO:HD2	1:Z:261:LEU:HD12	1.72	0.71
1:a:498:THR:HG23	1:3:496:ARG:H	1.54	0.71
1:b:258:PRO:HD2	1:b:261:LEU:HD12	1.72	0.71
1:b:361:GLN:HG2	1:b:524:GLN:HB3	1.73	0.71
1:d:267:VAL:HG12	1:l:188:PHE:CD1	2.25	0.71
1:d:361:GLN:HG2	1:d:524:GLN:HB3	1.73	0.71
1:i:361:GLN:HG2	1:i:524:GLN:HB3	1.73	0.71
1:n:361:GLN:HG2	1:n:524:GLN:HB3	1.73	0.71
1:q:496:ARG:H	1:x:498:THR:HG23	1.55	0.71
1:t:267:VAL:HG12	1:u:188:PHE:CD1	2.25	0.71
1:t:496:ARG:H	1:5:498:THR:HG23	1.55	0.71
1:2:361:GLN:HG2	1:2:524:GLN:HB3	1.73	0.71
1:A:188:PHE:CD1	1:I:267:VAL:HG12	2.25	0.71
1:G:496:ARG:H	1:H:498:THR:HG23	1.55	0.71
1:I:180:LEU:HB2	1:I:183:LYS:HG2	1.71	0.71
1:W:267:VAL:HG12	1:Y:188:PHE:CD1	2.25	0.71
1:W:498:THR:HG23	1:X:496:ARG:H	1.54	0.71
1:b:498:THR:HG23	1:c:496:ARG:H	1.54	0.71
1:c:267:VAL:HG12	1:o:188:PHE:CD1	2.25	0.71
1:f:361:GLN:HG2	1:f:524:GLN:HB3	1.72	0.71
1:i:496:ARG:H	1:l:498:THR:HG23	1.55	0.71
1:p:498:THR:HG23	1:s:496:ARG:H	1.54	0.71
1:u:180:LEU:HB2	1:u:183:LYS:HG2	1.71	0.71
1:z:180:LEU:HB2	1:z:183:LYS:HG2	1.70	0.71
1:4:180:LEU:HB2	1:4:183:LYS:HG2	1.71	0.71
1:5:267:VAL:HG12	1:6:188:PHE:CD1	2.25	0.71
1:Q:498:THR:HG23	1:R:496:ARG:H	1.55	0.71
1:U:498:THR:HG23	1:V:496:ARG:H	1.55	0.71
1:c:188:PHE:CD1	1:p:267:VAL:HG12	2.25	0.71
1:d:108:PRO:HB2	1:n:493:PRO:HD3	1.72	0.71
1:e:496:ARG:H	1:f:498:THR:HG23	1.54	0.71
1:t:494:GLU:HG3	1:5:109:GLN:HE22	1.54	0.71
1:6:267:VAL:HG12	1:7:188:PHE:CD1	2.25	0.71
1:7:180:LEU:HB2	1:7:183:LYS:HG2	1.70	0.71
1:8:258:PRO:HD2	1:8:261:LEU:HD12	1.72	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:496:ARG:H	1:F:498:THR:HG23	1.55	0.71
1:G:494:GLU:HG3	1:H:109:GLN:HE22	1.54	0.71
1:H:267:VAL:HG12	1:W:188:PHE:CD1	2.25	0.71
1:I:258:PRO:HD2	1:I:261:LEU:HD12	1.72	0.71
1:S:361:GLN:HG2	1:S:524:GLN:HB3	1.73	0.71
1:U:258:PRO:HD2	1:U:261:LEU:HD12	1.72	0.71
1:W:180:LEU:HB2	1:W:183:LYS:HG2	1.71	0.71
1:a:258:PRO:HD2	1:a:261:LEU:HD12	1.72	0.71
1:b:108:PRO:HB2	1:c:493:PRO:HD3	1.73	0.71
1:b:496:ARG:H	1:c:498:THR:HG23	1.54	0.71
1:c:258:PRO:HD2	1:c:261:LEU:HD12	1.72	0.71
1:o:496:ARG:H	1:6:498:THR:HG23	1.54	0.71
1:p:496:ARG:H	1:s:498:THR:HG23	1.55	0.71
1:q:361:GLN:HG2	1:q:524:GLN:HB3	1.73	0.71
1:v:496:ARG:H	1:y:498:THR:HG23	1.54	0.71
1:A:258:PRO:HD2	1:A:261:LEU:HD12	1.72	0.71
1:A:498:THR:HG23	1:F:496:ARG:H	1.54	0.71
1:K:267:VAL:HG12	1:a:188:PHE:CD1	2.25	0.71
1:R:361:GLN:HG2	1:R:524:GLN:HB3	1.73	0.71
1:W:361:GLN:HG2	1:W:524:GLN:HB3	1.73	0.71
1:X:188:PHE:CD1	1:e:267:VAL:HG12	2.25	0.71
1:k:258:PRO:HD2	1:k:261:LEU:HD12	1.72	0.71
1:q:494:GLU:HG3	1:x:109:GLN:HE22	1.54	0.71
1:r:361:GLN:HG2	1:r:524:GLN:HB3	1.73	0.71
1:s:258:PRO:HD2	1:s:261:LEU:HD12	1.72	0.71
1:t:498:THR:HG23	1:5:496:ARG:H	1.55	0.71
1:u:267:VAL:HG12	1:v:188:PHE:CD1	2.25	0.71
1:v:498:THR:HG23	1:y:496:ARG:H	1.54	0.71
1:w:267:VAL:HG12	1:x:188:PHE:CD1	2.25	0.71
1:3:188:PHE:CD1	1:4:267:VAL:HG12	2.25	0.71
1:3:258:PRO:HD2	1:3:261:LEU:HD12	1.72	0.71
1:6:180:LEU:HB2	1:6:183:LYS:HG2	1.71	0.71
1:D:258:PRO:HD2	1:D:261:LEU:HD12	1.72	0.71
1:E:188:PHE:CD1	1:F:267:VAL:HG12	2.25	0.71
1:E:267:VAL:HG12	1:Q:188:PHE:CD1	2.25	0.71
1:E:496:ARG:H	1:P:498:THR:HG23	1.55	0.71
1:G:498:THR:HG23	1:H:496:ARG:H	1.55	0.71
1:P:258:PRO:HD2	1:P:261:LEU:HD12	1.72	0.71
1:V:267:VAL:HG12	1:e:188:PHE:CD1	2.26	0.71
1:e:258:PRO:HD2	1:e:261:LEU:HD12	1.72	0.71
1:t:361:GLN:HG2	1:t:524:GLN:HB3	1.73	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:6:361:GLN:HG2	1:6:524:GLN:HB3	1.73	0.71
1:B:361:GLN:HG2	1:B:524:GLN:HB3	1.73	0.71
1:G:361:GLN:HG2	1:G:524:GLN:HB3	1.73	0.71
1:H:361:GLN:HG2	1:H:524:GLN:HB3	1.73	0.71
1:Q:109:GLN:HE22	1:R:494:GLU:HG3	1.54	0.71
1:Q:361:GLN:HG2	1:Q:524:GLN:HB3	1.73	0.71
1:S:493:PRO:HD3	1:T:108:PRO:HB2	1.73	0.71
1:W:109:GLN:HE22	1:X:494:GLU:HG3	1.54	0.71
1:W:493:PRO:HD3	1:X:108:PRO:HB2	1.73	0.71
1:Z:267:VAL:HG12	1:4:188:PHE:CD1	2.25	0.71
1:e:494:GLU:HG3	1:f:109:GLN:HE22	1.54	0.71
1:e:498:THR:HG23	1:f:496:ARG:H	1.54	0.71
1:o:108:PRO:HB2	1:6:493:PRO:HD3	1.73	0.71
1:o:258:PRO:HD2	1:o:261:LEU:HD12	1.72	0.71
1:u:258:PRO:HD2	1:u:261:LEU:HD12	1.72	0.71
1:v:258:PRO:HD2	1:v:261:LEU:HD12	1.72	0.71
1:z:258:PRO:HD2	1:z:261:LEU:HD12	1.72	0.71
1:2:494:GLU:HG3	1:4:109:GLN:HE22	1.54	0.71
1:J:494:GLU:HG3	1:K:109:GLN:HE22	1.54	0.70
1:L:258:PRO:HD2	1:L:261:LEU:HD12	1.72	0.70
1:d:258:PRO:HD2	1:d:261:LEU:HD12	1.72	0.70
1:f:267:VAL:HG12	1:h:188:PHE:CD1	2.25	0.70
1:j:258:PRO:HD2	1:j:261:LEU:HD12	1.72	0.70
1:j:498:THR:HG23	1:w:496:ARG:H	1.55	0.70
1:o:494:GLU:HG3	1:6:109:GLN:HE22	1.54	0.70
1:r:258:PRO:HD2	1:r:261:LEU:HD12	1.72	0.70
1:w:188:PHE:CD1	1:y:267:VAL:HG12	2.25	0.70
1:x:267:VAL:HG12	1:y:188:PHE:CD1	2.25	0.70
1:x:361:GLN:HG2	1:x:524:GLN:HB3	1.73	0.70
1:1:361:GLN:HG2	1:1:524:GLN:HB3	1.73	0.70
1:2:496:ARG:H	1:4:498:THR:HG23	1.54	0.70
1:5:361:GLN:HG2	1:5:524:GLN:HB3	1.73	0.70
1:G:493:PRO:HD3	1:H:108:PRO:HB2	1.74	0.70
1:K:188:PHE:CD1	1:8:267:VAL:HG12	2.25	0.70
1:M:188:PHE:CD1	1:b:267:VAL:HG12	2.25	0.70
1:N:108:PRO:HB2	1:O:493:PRO:HD3	1.73	0.70
1:S:258:PRO:HD2	1:S:261:LEU:HD12	1.72	0.70
1:S:498:THR:HG23	1:T:496:ARG:H	1.55	0.70
1:X:258:PRO:HD2	1:X:261:LEU:HD12	1.72	0.70
1:i:258:PRO:HD2	1:i:261:LEU:HD12	1.72	0.70
1:t:493:PRO:HD3	1:5:108:PRO:HB2	1.74	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:493:PRO:HD3	1:F:108:PRO:HB2	1.73	0.70
1:D:493:PRO:HD3	1:M:108:PRO:HB2	1.73	0.70
1:F:188:PHE:CD1	1:Q:267:VAL:HG12	2.25	0.70
1:J:496:ARG:H	1:K:498:THR:HG23	1.54	0.70
1:U:361:GLN:HG2	1:U:524:GLN:HB3	1.73	0.70
1:m:108:PRO:HB2	1:r:493:PRO:HD3	1.73	0.70
1:m:496:ARG:H	1:r:498:THR:HG23	1.54	0.70
1:n:258:PRO:HD2	1:n:261:LEU:HD12	1.72	0.70
1:s:361:GLN:HG2	1:s:524:GLN:HB3	1.73	0.70
1:u:493:PRO:HD3	1:1:108:PRO:HB2	1.73	0.70
1:2:108:PRO:HB2	1:4:493:PRO:HD3	1.73	0.70
1:7:361:GLN:HG2	1:7:524:GLN:HB3	1.73	0.70
1:B:108:PRO:HB2	1:I:493:PRO:HD3	1.73	0.70
1:J:108:PRO:HB2	1:K:493:PRO:HD3	1.73	0.70
1:M:361:GLN:HG2	1:M:524:GLN:HB3	1.73	0.70
1:N:258:PRO:HD2	1:N:261:LEU:HD12	1.72	0.70
1:h:108:PRO:HB2	1:k:493:PRO:HD3	1.73	0.70
1:h:498:THR:HG23	1:k:496:ARG:H	1.55	0.70
1:i:493:PRO:HD3	1:l:108:PRO:HB2	1.74	0.70
1:j:493:PRO:HD3	1:w:108:PRO:HB2	1.74	0.70
1:D:248:GLU:OE2	1:D:410:ARG:NH1	2.25	0.70
1:D:496:ARG:H	1:M:498:THR:HG23	1.55	0.70
1:E:108:PRO:HB2	1:P:493:PRO:HD3	1.74	0.70
1:H:248:GLU:OE2	1:H:410:ARG:NH1	2.25	0.70
1:P:248:GLU:OE2	1:P:410:ARG:NH1	2.25	0.70
1:Y:108:PRO:HB2	1:Z:493:PRO:HD3	1.74	0.70
1:Y:361:GLN:HG2	1:Y:524:GLN:HB3	1.73	0.70
1:k:248:GLU:OE2	1:k:410:ARG:NH1	2.25	0.70
1:l:361:GLN:HG2	1:l:524:GLN:HB3	1.73	0.70
1:v:493:PRO:HD3	1:y:108:PRO:HB2	1.74	0.70
1:5:248:GLU:OE2	1:5:410:ARG:NH1	2.25	0.70
1:7:108:PRO:HB2	1:8:493:PRO:HD3	1.74	0.70
1:A:361:GLN:HG2	1:A:524:GLN:HB3	1.73	0.70
1:E:248:GLU:OE2	1:E:410:ARG:NH1	2.25	0.70
1:F:248:GLU:OE2	1:F:410:ARG:NH1	2.25	0.70
1:K:248:GLU:OE2	1:K:410:ARG:NH1	2.25	0.70
1:N:248:GLU:OE2	1:N:410:ARG:NH1	2.25	0.70
1:N:493:PRO:HD3	1:O:108:PRO:HB2	1.74	0.70
1:O:248:GLU:OE2	1:O:410:ARG:NH1	2.25	0.70
1:S:108:PRO:HB2	1:T:493:PRO:HD3	1.73	0.70
1:U:108:PRO:HB2	1:V:493:PRO:HD3	1.73	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:h:361:GLN:HG2	1:h:524:GLN:HB3	1.73	0.70
1:j:248:GLU:OE2	1:j:410:ARG:NH1	2.25	0.70
1:p:493:PRO:HD3	1:s:108:PRO:HB2	1.73	0.70
1:4:248:GLU:OE2	1:4:410:ARG:NH1	2.25	0.70
1:6:248:GLU:OE2	1:6:410:ARG:NH1	2.25	0.70
1:O:361:GLN:HG2	1:O:524:GLN:HB3	1.73	0.70
1:W:108:PRO:HB2	1:X:493:PRO:HD3	1.74	0.70
1:W:248:GLU:OE2	1:W:410:ARG:NH1	2.25	0.70
1:X:248:GLU:OE2	1:X:410:ARG:NH1	2.25	0.70
1:e:248:GLU:OE2	1:e:410:ARG:NH1	2.25	0.70
1:i:108:PRO:HB2	1:l:493:PRO:HD3	1.74	0.70
1:i:248:GLU:OE2	1:i:410:ARG:NH1	2.25	0.70
1:o:248:GLU:OE2	1:o:410:ARG:NH1	2.25	0.70
1:o:493:PRO:HD3	1:6:108:PRO:HB2	1.74	0.70
1:v:361:GLN:HG2	1:v:524:GLN:HB3	1.73	0.70
1:w:248:GLU:OE2	1:w:410:ARG:NH1	2.25	0.70
1:y:248:GLU:OE2	1:y:410:ARG:NH1	2.25	0.70
1:2:248:GLU:OE2	1:2:410:ARG:NH1	2.25	0.70
1:C:248:GLU:OE2	1:C:410:ARG:NH1	2.25	0.70
1:C:496:ARG:H	1:L:498:THR:HG23	1.55	0.70
1:J:248:GLU:OE2	1:J:410:ARG:NH1	2.25	0.70
1:S:248:GLU:OE2	1:S:410:ARG:NH1	2.25	0.70
1:c:248:GLU:OE2	1:c:410:ARG:NH1	2.25	0.70
1:e:108:PRO:HB2	1:f:493:PRO:HD3	1.73	0.70
1:e:361:GLN:HG2	1:e:524:GLN:HB3	1.73	0.70
1:e:493:PRO:HD3	1:f:108:PRO:HB2	1.74	0.70
1:g:248:GLU:OE2	1:g:410:ARG:NH1	2.25	0.70
1:g:496:ARG:H	1:z:498:THR:HG23	1.55	0.70
1:l:248:GLU:OE2	1:l:410:ARG:NH1	2.25	0.70
1:m:493:PRO:HD3	1:r:108:PRO:HB2	1.73	0.70
1:p:248:GLU:OE2	1:p:410:ARG:NH1	2.25	0.70
1:7:258:PRO:HD2	1:7:261:LEU:HD12	1.72	0.70
1:L:248:GLU:OE2	1:L:410:ARG:NH1	2.25	0.70
1:V:248:GLU:OE2	1:V:410:ARG:NH1	2.25	0.70
1:a:493:PRO:HD3	1:3:108:PRO:HB2	1.73	0.70
1:r:248:GLU:OE2	1:r:410:ARG:NH1	2.25	0.70
1:u:108:PRO:HB2	1:1:493:PRO:HD3	1.73	0.70
1:B:493:PRO:HD3	1:I:108:PRO:HB2	1.73	0.70
1:C:361:GLN:HG2	1:C:524:GLN:HB3	1.73	0.70
1:D:108:PRO:HB2	1:M:493:PRO:HD3	1.74	0.70
1:I:361:GLN:HG2	1:I:524:GLN:HB3	1.73	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:P:361:GLN:HG2	1:P:524:GLN:HB3	1.73	0.70
1:V:361:GLN:HG2	1:V:524:GLN:HB3	1.73	0.70
1:Y:258:PRO:HD2	1:Y:261:LEU:HD12	1.72	0.70
1:b:493:PRO:HD3	1:c:108:PRO:HB2	1.73	0.70
1:c:361:GLN:HG2	1:c:524:GLN:HB3	1.73	0.70
1:j:361:GLN:HG2	1:j:524:GLN:HB3	1.73	0.70
1:z:248:GLU:OE2	1:z:410:ARG:NH1	2.25	0.70
1:Q:258:PRO:HD2	1:Q:261:LEU:HD12	1.72	0.69
1:a:108:PRO:HB2	1:3:493:PRO:HD3	1.73	0.69
1:a:361:GLN:HG2	1:a:524:GLN:HB3	1.73	0.69
1:h:493:PRO:HD3	1:k:108:PRO:HB2	1.74	0.69
1:p:361:GLN:HG2	1:p:524:GLN:HB3	1.73	0.69
1:u:361:GLN:HG2	1:u:524:GLN:HB3	1.73	0.69
1:x:248:GLU:OE2	1:x:410:ARG:NH1	2.25	0.69
1:D:361:GLN:HG2	1:D:524:GLN:HB3	1.73	0.69
1:E:258:PRO:HD2	1:E:261:LEU:HD12	1.72	0.69
1:G:248:GLU:OE2	1:G:410:ARG:NH1	2.25	0.69
1:G:258:PRO:HD2	1:G:261:LEU:HD12	1.72	0.69
1:K:361:GLN:HG2	1:K:524:GLN:HB3	1.73	0.69
1:Q:248:GLU:OE2	1:Q:410:ARG:NH1	2.25	0.69
1:X:361:GLN:HG2	1:X:524:GLN:HB3	1.73	0.69
1:g:361:GLN:HG2	1:g:524:GLN:HB3	1.73	0.69
1:w:258:PRO:HD2	1:w:261:LEU:HD12	1.72	0.69
1:3:361:GLN:HG2	1:3:524:GLN:HB3	1.73	0.69
1:4:361:GLN:HG2	1:4:524:GLN:HB3	1.73	0.69
1:A:248:GLU:OE2	1:A:410:ARG:NH1	2.25	0.69
1:T:267:VAL:HG12	1:d:188:PHE:CD1	2.27	0.69
1:k:361:GLN:HG2	1:k:524:GLN:HB3	1.73	0.69
1:t:248:GLU:OE2	1:t:410:ARG:NH1	2.25	0.69
1:v:248:GLU:OE2	1:v:410:ARG:NH1	2.25	0.69
1:x:258:PRO:HD2	1:x:261:LEU:HD12	1.72	0.69
1:z:361:GLN:HG2	1:z:524:GLN:HB3	1.73	0.69
1:B:248:GLU:OE2	1:B:410:ARG:NH1	2.25	0.69
1:F:258:PRO:HD2	1:F:261:LEU:HD12	1.72	0.69
1:G:108:PRO:HB2	1:H:493:PRO:HD3	1.74	0.69
1:I:248:GLU:OE2	1:I:410:ARG:NH1	2.25	0.69
1:R:248:GLU:OE2	1:R:410:ARG:NH1	2.25	0.69
1:Z:248:GLU:OE2	1:Z:410:ARG:NH1	2.25	0.69
1:t:258:PRO:HD2	1:t:261:LEU:HD12	1.72	0.69
1:u:248:GLU:OE2	1:u:410:ARG:NH1	2.25	0.69
1:8:248:GLU:OE2	1:8:410:ARG:NH1	2.25	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:493:PRO:HD3	1:P:108:PRO:HB2	1.74	0.69
1:Q:493:PRO:HD3	1:R:108:PRO:HB2	1.73	0.69
1:U:248:GLU:OE2	1:U:410:ARG:NH1	2.25	0.69
1:g:108:PRO:HB2	1:z:493:PRO:HD3	1.74	0.69
1:o:361:GLN:HG2	1:o:524:GLN:HB3	1.73	0.69
1:q:248:GLU:OE2	1:q:410:ARG:NH1	2.25	0.69
1:s:248:GLU:OE2	1:s:410:ARG:NH1	2.25	0.69
1:1:248:GLU:OE2	1:1:410:ARG:NH1	2.25	0.69
1:F:361:GLN:HG2	1:F:524:GLN:HB3	1.72	0.69
1:L:361:GLN:HG2	1:L:524:GLN:HB3	1.73	0.69
1:M:248:GLU:OE2	1:M:410:ARG:NH1	2.25	0.69
1:T:308:ARG:NH2	1:T:342:ASP:OD2	2.26	0.69
1:f:308:ARG:NH2	1:f:342:ASP:OD2	2.26	0.69
1:m:308:ARG:NH2	1:m:342:ASP:OD2	2.26	0.69
1:o:308:ARG:NH2	1:o:342:ASP:OD2	2.26	0.69
1:q:108:PRO:HB2	1:x:493:PRO:HD3	1.73	0.69
1:t:108:PRO:HB2	1:5:493:PRO:HD3	1.74	0.69
1:y:258:PRO:HD2	1:y:261:LEU:HD12	1.72	0.69
1:C:108:PRO:HB2	1:L:493:PRO:HD3	1.74	0.69
1:O:308:ARG:NH2	1:O:342:ASP:OD2	2.26	0.69
1:P:308:ARG:NH2	1:P:342:ASP:OD2	2.26	0.69
1:T:248:GLU:OE2	1:T:410:ARG:NH1	2.25	0.69
1:b:308:ARG:NH2	1:b:342:ASP:OD2	2.26	0.69
1:h:248:GLU:OE2	1:h:410:ARG:NH1	2.25	0.69
1:j:108:PRO:HB2	1:w:493:PRO:HD3	1.74	0.69
1:j:308:ARG:NH2	1:j:342:ASP:OD2	2.26	0.69
1:l:308:ARG:NH2	1:l:342:ASP:OD2	2.26	0.69
1:6:308:ARG:NH2	1:6:342:ASP:OD2	2.26	0.69
1:F:308:ARG:NH2	1:F:342:ASP:OD2	2.26	0.69
1:W:308:ARG:NH2	1:W:342:ASP:OD2	2.26	0.69
1:Y:248:GLU:OE2	1:Y:410:ARG:NH1	2.25	0.69
1:Y:493:PRO:HD3	1:Z:108:PRO:HB2	1.74	0.69
1:m:248:GLU:OE2	1:m:410:ARG:NH1	2.25	0.69
1:p:108:PRO:HB2	1:s:493:PRO:HD3	1.74	0.69
1:y:308:ARG:NH2	1:y:342:ASP:OD2	2.26	0.69
1:y:361:GLN:HG2	1:y:524:GLN:HB3	1.73	0.69
1:7:248:GLU:OE2	1:7:410:ARG:NH1	2.25	0.69
1:7:493:PRO:HD3	1:8:108:PRO:HB2	1.74	0.69
1:C:493:PRO:HD3	1:L:108:PRO:HB2	1.73	0.69
1:U:308:ARG:NH2	1:U:342:ASP:OD2	2.26	0.69
1:U:493:PRO:HD3	1:V:108:PRO:HB2	1.74	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:d:248:GLU:OE2	1:d:410:ARG:NH1	2.25	0.69
1:s:308:ARG:NH2	1:s:342:ASP:OD2	2.26	0.69
1:V:308:ARG:NH2	1:V:342:ASP:OD2	2.26	0.68
1:a:248:GLU:OE2	1:a:410:ARG:NH1	2.25	0.68
1:b:248:GLU:OE2	1:b:410:ARG:NH1	2.25	0.68
1:c:308:ARG:NH2	1:c:342:ASP:OD2	2.26	0.68
1:f:248:GLU:OE2	1:f:410:ARG:NH1	2.25	0.68
1:g:493:PRO:HD3	1:z:108:PRO:HB2	1.73	0.68
1:n:248:GLU:OE2	1:n:410:ARG:NH1	2.25	0.68
1:p:308:ARG:NH2	1:p:342:ASP:OD2	2.26	0.68
1:7:308:ARG:NH2	1:7:342:ASP:OD2	2.26	0.68
1:Y:308:ARG:NH2	1:Y:342:ASP:OD2	2.26	0.68
1:e:308:ARG:NH2	1:e:342:ASP:OD2	2.26	0.68
1:n:308:ARG:NH2	1:n:342:ASP:OD2	2.26	0.68
1:q:493:PRO:HD3	1:x:108:PRO:HB2	1.73	0.68
1:u:308:ARG:NH2	1:u:342:ASP:OD2	2.26	0.68
1:I:308:ARG:NH2	1:I:342:ASP:OD2	2.26	0.68
1:Z:361:GLN:HG2	1:Z:524:GLN:HB3	1.73	0.68
1:3:248:GLU:OE2	1:3:410:ARG:NH1	2.25	0.68
1:J:493:PRO:HD3	1:K:108:PRO:HB2	1.73	0.68
1:Q:108:PRO:HB2	1:R:493:PRO:HD3	1.73	0.68
1:b:98:ASN:ND2	1:b:175:ASP:OD1	2.26	0.68
1:d:308:ARG:NH2	1:d:342:ASP:OD2	2.26	0.68
1:v:108:PRO:HB2	1:y:493:PRO:HD3	1.74	0.68
1:3:308:ARG:NH2	1:3:342:ASP:OD2	2.26	0.68
1:8:361:GLN:HG2	1:8:524:GLN:HB3	1.73	0.68
1:Q:308:ARG:NH2	1:Q:342:ASP:OD2	2.26	0.68
1:a:308:ARG:NH2	1:a:342:ASP:OD2	2.26	0.68
1:x:308:ARG:NH2	1:x:342:ASP:OD2	2.26	0.68
1:2:493:PRO:HD3	1:4:108:PRO:HB2	1.73	0.68
1:q:98:ASN:ND2	1:q:175:ASP:OD1	2.26	0.68
1:z:98:ASN:ND2	1:z:175:ASP:OD1	2.26	0.68
1:A:108:PRO:HB2	1:F:493:PRO:HD3	1.74	0.68
1:I:98:ASN:ND2	1:I:175:ASP:OD1	2.26	0.68
1:R:98:ASN:ND2	1:R:175:ASP:OD1	2.26	0.68
1:u:98:ASN:ND2	1:u:175:ASP:OD1	2.26	0.68
1:L:98:ASN:ND2	1:L:175:ASP:OD1	2.26	0.68
1:X:98:ASN:ND2	1:X:175:ASP:OD1	2.26	0.67
1:o:98:ASN:ND2	1:o:175:ASP:OD1	2.26	0.67
1:r:308:ARG:NH2	1:r:342:ASP:OD2	2.26	0.67
1:7:98:ASN:ND2	1:7:175:ASP:OD1	2.26	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:308:ARG:NH2	1:H:342:ASP:OD2	2.26	0.67
1:J:308:ARG:NH2	1:J:342:ASP:OD2	2.26	0.67
1:i:98:ASN:ND2	1:i:175:ASP:OD1	2.26	0.67
1:j:98:ASN:ND2	1:j:175:ASP:OD1	2.26	0.67
1:2:308:ARG:NH2	1:2:342:ASP:OD2	2.26	0.67
1:N:98:ASN:ND2	1:N:175:ASP:OD1	2.26	0.67
1:P:98:ASN:ND2	1:P:175:ASP:OD1	2.26	0.67
1:S:308:ARG:NH2	1:S:342:ASP:OD2	2.26	0.67
1:Y:98:ASN:ND2	1:Y:175:ASP:OD1	2.26	0.67
1:w:308:ARG:NH2	1:w:342:ASP:OD2	2.26	0.67
1:5:308:ARG:NH2	1:5:342:ASP:OD2	2.26	0.67
1:4:98:ASN:ND2	1:4:175:ASP:OD1	2.26	0.67
1:8:308:ARG:NH2	1:8:342:ASP:OD2	2.26	0.67
1:E:308:ARG:NH2	1:E:342:ASP:OD2	2.26	0.67
1:K:98:ASN:ND2	1:K:175:ASP:OD1	2.26	0.67
1:Z:308:ARG:NH2	1:Z:342:ASP:OD2	2.26	0.67
1:h:308:ARG:NH2	1:h:342:ASP:OD2	2.26	0.67
1:D:308:ARG:NH2	1:D:342:ASP:OD2	2.26	0.67
1:e:98:ASN:ND2	1:e:175:ASP:OD1	2.26	0.67
1:k:308:ARG:NH2	1:k:342:ASP:OD2	2.26	0.67
1:M:308:ARG:NH2	1:M:342:ASP:OD2	2.26	0.67
1:a:98:ASN:ND2	1:a:175:ASP:OD1	2.26	0.67
1:c:98:ASN:ND2	1:c:175:ASP:OD1	2.26	0.67
1:C:98:ASN:ND2	1:C:175:ASP:OD1	2.26	0.66
1:3:98:ASN:ND2	1:3:175:ASP:OD1	2.26	0.66
1:P:163:HIS:HB2	1:P:425:ARG:HH22	1.61	0.66
1:Z:163:HIS:HB2	1:Z:425:ARG:HH22	1.61	0.66
1:g:98:ASN:ND2	1:g:175:ASP:OD1	2.26	0.66
1:j:163:HIS:HB2	1:j:425:ARG:HH22	1.61	0.66
1:v:308:ARG:NH2	1:v:342:ASP:OD2	2.26	0.66
1:1:308:ARG:NH2	1:1:342:ASP:OD2	2.26	0.66
1:8:163:HIS:HB2	1:8:425:ARG:HH22	1.61	0.66
1:A:308:ARG:NH2	1:A:342:ASP:OD2	2.26	0.66
1:B:308:ARG:NH2	1:B:342:ASP:OD2	2.26	0.66
1:D:98:ASN:ND2	1:D:175:ASP:OD1	2.26	0.66
1:F:163:HIS:HB2	1:F:425:ARG:HH22	1.61	0.66
1:W:163:HIS:HB2	1:W:425:ARG:HH22	1.61	0.66
1:y:163:HIS:HB2	1:y:425:ARG:HH22	1.61	0.66
1:4:163:HIS:HB2	1:4:425:ARG:HH22	1.61	0.66
1:I:163:HIS:HB2	1:I:425:ARG:HH22	1.61	0.66
1:K:163:HIS:HB2	1:K:425:ARG:HH22	1.61	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:163:HIS:HB2	1:L:425:ARG:HH22	1.61	0.66
1:U:163:HIS:HB2	1:U:425:ARG:HH22	1.61	0.66
1:k:98:ASN:ND2	1:k:175:ASP:OD1	2.26	0.66
1:s:163:HIS:HB2	1:s:425:ARG:HH22	1.61	0.66
1:u:163:HIS:HB2	1:u:425:ARG:HH22	1.61	0.66
1:w:163:HIS:HB2	1:w:425:ARG:HH22	1.61	0.66
1:5:163:HIS:HB2	1:5:425:ARG:HH22	1.61	0.66
1:6:163:HIS:HB2	1:6:425:ARG:HH22	1.61	0.66
1:E:163:HIS:HB2	1:E:425:ARG:HH22	1.61	0.66
1:H:163:HIS:HB2	1:H:425:ARG:HH22	1.61	0.66
1:O:163:HIS:HB2	1:O:425:ARG:HH22	1.61	0.66
1:V:98:ASN:ND2	1:V:175:ASP:OD1	2.26	0.66
1:K:308:ARG:NH2	1:K:342:ASP:OD2	2.26	0.66
1:T:163:HIS:HB2	1:T:425:ARG:HH22	1.61	0.66
1:l:163:HIS:HB2	1:l:425:ARG:HH22	1.61	0.66
1:m:163:HIS:HB2	1:m:425:ARG:HH22	1.61	0.66
1:t:308:ARG:NH2	1:t:342:ASP:OD2	2.26	0.66
1:z:163:HIS:HB2	1:z:425:ARG:HH22	1.61	0.66
1:E:196:LEU:HD21	1:E:337:TYR:HA	1.78	0.66
1:G:196:LEU:HD21	1:G:337:TYR:HA	1.78	0.66
1:N:196:LEU:HD21	1:N:337:TYR:HA	1.78	0.66
1:O:180:LEU:HB2	1:O:183:LYS:CG	2.26	0.66
1:Y:196:LEU:HD21	1:Y:337:TYR:HA	1.78	0.66
1:c:163:HIS:HB2	1:c:425:ARG:HH22	1.61	0.66
1:d:287:ARG:NH1	1:l:174:GLU:OE2	2.28	0.66
1:i:196:LEU:HD21	1:i:337:TYR:HA	1.78	0.66
1:r:98:ASN:ND2	1:r:175:ASP:OD1	2.26	0.66
1:t:98:ASN:ND2	1:t:175:ASP:OD1	2.26	0.66
1:t:196:LEU:HD21	1:t:337:TYR:HA	1.78	0.66
1:w:196:LEU:HD21	1:w:337:TYR:HA	1.78	0.66
1:z:308:ARG:NH2	1:z:342:ASP:OD2	2.26	0.66
1:2:163:HIS:HB2	1:2:425:ARG:HH22	1.61	0.66
1:5:98:ASN:ND2	1:5:175:ASP:OD1	2.26	0.66
1:B:196:LEU:HD21	1:B:337:TYR:HA	1.78	0.65
1:L:180:LEU:HB2	1:L:183:LYS:CG	2.26	0.65
1:L:308:ARG:NH2	1:L:342:ASP:OD2	2.26	0.65
1:N:163:HIS:HB2	1:N:425:ARG:HH22	1.61	0.65
1:S:98:ASN:ND2	1:S:175:ASP:OD1	2.26	0.65
1:X:180:LEU:HB2	1:X:183:LYS:CG	2.26	0.65
1:b:180:LEU:HB2	1:b:183:LYS:CG	2.27	0.65
1:d:196:LEU:HD21	1:d:337:TYR:HA	1.78	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:f:180:LEU:HB2	1:f:183:LYS:CG	2.26	0.65
1:g:163:HIS:HB2	1:g:425:ARG:HH22	1.61	0.65
1:l:180:LEU:HB2	1:l:183:LYS:CG	2.26	0.65
1:m:180:LEU:HB2	1:m:183:LYS:CG	2.26	0.65
1:o:180:LEU:HB2	1:o:183:LYS:CG	2.26	0.65
1:p:98:ASN:ND2	1:p:175:ASP:OD1	2.26	0.65
1:s:180:LEU:HB2	1:s:183:LYS:CG	2.26	0.65
1:z:180:LEU:HB2	1:z:183:LYS:CG	2.26	0.65
1:1:196:LEU:HD21	1:1:337:TYR:HA	1.78	0.65
1:7:196:LEU:HD21	1:7:337:TYR:HA	1.78	0.65
1:G:98:ASN:ND2	1:G:175:ASP:OD1	2.26	0.65
1:G:163:HIS:HB2	1:G:425:ARG:HH22	1.61	0.65
1:G:308:ARG:NH2	1:G:342:ASP:OD2	2.26	0.65
1:H:98:ASN:ND2	1:H:175:ASP:OD1	2.26	0.65
1:N:180:LEU:HB2	1:N:183:LYS:CG	2.27	0.65
1:R:196:LEU:HD21	1:R:337:TYR:HA	1.78	0.65
1:T:180:LEU:HB2	1:T:183:LYS:CG	2.27	0.65
1:T:196:LEU:HD21	1:T:337:TYR:HA	1.78	0.65
1:U:180:LEU:HB2	1:U:183:LYS:CG	2.26	0.65
1:Z:98:ASN:ND2	1:Z:175:ASP:OD1	2.26	0.65
1:i:163:HIS:HB2	1:i:425:ARG:HH22	1.61	0.65
1:i:180:LEU:HB2	1:i:183:LYS:CG	2.27	0.65
1:m:196:LEU:HD21	1:m:337:TYR:HA	1.78	0.65
1:n:196:LEU:HD21	1:n:337:TYR:HA	1.78	0.65
1:q:196:LEU:HD21	1:q:337:TYR:HA	1.78	0.65
1:v:163:HIS:HB2	1:v:425:ARG:HH22	1.61	0.65
1:x:180:LEU:HB2	1:x:183:LYS:CG	2.27	0.65
1:4:308:ARG:NH2	1:4:342:ASP:OD2	2.26	0.65
1:A:163:HIS:HB2	1:A:425:ARG:HH22	1.61	0.65
1:C:163:HIS:HB2	1:C:425:ARG:HH22	1.61	0.65
1:J:98:ASN:ND2	1:J:175:ASP:OD1	2.26	0.65
1:J:163:HIS:HB2	1:J:425:ARG:HH22	1.61	0.65
1:K:196:LEU:HD21	1:K:337:TYR:HA	1.78	0.65
1:Q:180:LEU:HB2	1:Q:183:LYS:CG	2.27	0.65
1:W:180:LEU:HB2	1:W:183:LYS:CG	2.26	0.65
1:a:196:LEU:HD21	1:a:337:TYR:HA	1.78	0.65
1:d:98:ASN:ND2	1:d:175:ASP:OD1	2.26	0.65
1:e:163:HIS:HB2	1:e:425:ARG:HH22	1.61	0.65
1:j:180:LEU:HB2	1:j:183:LYS:CG	2.26	0.65
1:3:196:LEU:HD21	1:3:337:TYR:HA	1.78	0.65
1:4:196:LEU:HD21	1:4:337:TYR:HA	1.78	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:6:180:LEU:HB2	1:6:183:LYS:CG	2.26	0.65
1:7:163:HIS:HB2	1:7:425:ARG:HH22	1.61	0.65
1:B:180:LEU:HB2	1:B:183:LYS:CG	2.26	0.65
1:F:196:LEU:HD21	1:F:337:TYR:HA	1.78	0.65
1:G:291:TYR:OH	1:I:313:THR:O	2.12	0.65
1:H:180:LEU:HB2	1:H:183:LYS:CG	2.26	0.65
1:J:287:ARG:NH1	1:L:174:GLU:OE2	2.30	0.65
1:P:180:LEU:HB2	1:P:183:LYS:CG	2.26	0.65
1:S:163:HIS:HB2	1:S:425:ARG:HH22	1.61	0.65
1:T:291:TYR:OH	1:d:313:THR:O	2.11	0.65
1:Y:163:HIS:HB2	1:Y:425:ARG:HH22	1.61	0.65
1:a:163:HIS:HB2	1:a:425:ARG:HH22	1.61	0.65
1:h:98:ASN:ND2	1:h:175:ASP:OD1	2.26	0.65
1:q:163:HIS:HB2	1:q:425:ARG:HH22	1.61	0.65
1:t:163:HIS:HB2	1:t:425:ARG:HH22	1.61	0.65
1:u:196:LEU:HD21	1:u:337:TYR:HA	1.78	0.65
1:z:174:GLU:OE2	1:2:287:ARG:NH1	2.30	0.65
1:1:180:LEU:HB2	1:1:183:LYS:CG	2.26	0.65
1:2:98:ASN:ND2	1:2:175:ASP:OD1	2.26	0.65
1:B:174:GLU:OE2	1:L:287:ARG:NH1	2.30	0.65
1:I:196:LEU:HD21	1:I:337:TYR:HA	1.78	0.65
1:P:196:LEU:HD21	1:P:337:TYR:HA	1.78	0.65
1:R:180:LEU:HB2	1:R:183:LYS:CG	2.26	0.65
1:Y:180:LEU:HB2	1:Y:183:LYS:CG	2.26	0.65
1:e:492:ARG:NH2	1:f:512:PRO:HB2	2.12	0.65
1:f:98:ASN:ND2	1:f:175:ASP:OD1	2.26	0.65
1:q:180:LEU:HB2	1:q:183:LYS:CG	2.26	0.65
1:r:163:HIS:HB2	1:r:425:ARG:HH22	1.61	0.65
1:v:98:ASN:ND2	1:v:175:ASP:OD1	2.26	0.65
1:x:98:ASN:ND2	1:x:175:ASP:OD1	2.26	0.65
1:z:196:LEU:HD21	1:z:337:TYR:HA	1.78	0.65
1:7:180:LEU:HB2	1:7:183:LYS:CG	2.26	0.65
1:8:98:ASN:ND2	1:8:175:ASP:OD1	2.26	0.65
1:L:196:LEU:HD21	1:L:337:TYR:HA	1.78	0.65
1:R:163:HIS:HB2	1:R:425:ARG:HH22	1.61	0.65
1:h:196:LEU:HD21	1:h:337:TYR:HA	1.78	0.65
1:j:196:LEU:HD21	1:j:337:TYR:HA	1.78	0.65
1:q:287:ARG:NH1	1:r:174:GLU:OE2	2.30	0.65
1:q:308:ARG:NH2	1:q:342:ASP:OD2	2.26	0.65
1:y:196:LEU:HD21	1:y:337:TYR:HA	1.78	0.65
1:z:287:ARG:NH1	1:1:174:GLU:OE2	2.30	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:3:163:HIS:HB2	1:3:425:ARG:HH22	1.61	0.65
1:A:98:ASN:ND2	1:A:175:ASP:OD1	2.26	0.65
1:M:98:ASN:ND2	1:M:175:ASP:OD1	2.26	0.65
1:M:180:LEU:HB2	1:M:183:LYS:CG	2.26	0.65
1:M:196:LEU:HD21	1:M:337:TYR:HA	1.78	0.65
1:R:287:ARG:NH1	1:S:174:GLU:OE2	2.30	0.65
1:R:308:ARG:NH2	1:R:342:ASP:OD2	2.26	0.65
1:f:287:ARG:NH1	1:h:174:GLU:OE2	2.30	0.65
1:k:163:HIS:HB2	1:k:425:ARG:HH22	1.61	0.65
1:n:98:ASN:ND2	1:n:175:ASP:OD1	2.26	0.65
1:2:180:LEU:HB2	1:2:183:LYS:CG	2.26	0.65
1:D:163:HIS:HB2	1:D:425:ARG:HH22	1.61	0.65
1:H:174:GLU:OE2	1:Y:287:ARG:NH1	2.30	0.65
1:J:180:LEU:HB2	1:J:183:LYS:CG	2.26	0.65
1:M:174:GLU:OE2	1:b:287:ARG:NH1	2.30	0.65
1:Q:98:ASN:ND2	1:Q:175:ASP:OD1	2.26	0.65
1:f:196:LEU:HD21	1:f:337:TYR:HA	1.78	0.65
1:h:180:LEU:HB2	1:h:183:LYS:CG	2.26	0.65
1:m:287:ARG:NH1	1:n:174:GLU:OE2	2.30	0.65
1:C:196:LEU:HD21	1:C:337:TYR:HA	1.78	0.65
1:D:180:LEU:HB2	1:D:183:LYS:CG	2.26	0.65
1:G:287:ARG:NH1	1:I:174:GLU:OE2	2.30	0.65
1:I:180:LEU:HB2	1:I:183:LYS:CG	2.27	0.65
1:J:196:LEU:HD21	1:J:337:TYR:HA	1.78	0.65
1:K:174:GLU:OE2	1:8:287:ARG:NH1	2.30	0.65
1:M:163:HIS:HB2	1:M:425:ARG:HH22	1.61	0.65
1:Z:287:ARG:NH1	1:4:174:GLU:OE2	2.30	0.65
1:h:163:HIS:HB2	1:h:425:ARG:HH22	1.61	0.65
1:o:287:ARG:NH1	1:p:174:GLU:OE2	2.30	0.65
1:o:492:ARG:NH2	1:6:512:PRO:HB2	2.12	0.65
1:u:180:LEU:HB2	1:u:183:LYS:CG	2.27	0.65
1:1:98:ASN:ND2	1:1:175:ASP:OD1	2.26	0.65
1:5:174:GLU:OE2	1:7:287:ARG:NH1	2.30	0.65
1:C:512:PRO:HB2	1:L:492:ARG:NH2	2.12	0.65
1:D:512:PRO:HB2	1:M:492:ARG:NH2	2.12	0.65
1:E:180:LEU:HB2	1:E:183:LYS:CG	2.27	0.65
1:V:174:GLU:OE2	1:X:287:ARG:NH1	2.30	0.65
1:W:512:PRO:HB2	1:X:492:ARG:NH2	2.12	0.65
1:b:196:LEU:HD21	1:b:337:TYR:HA	1.78	0.65
1:c:180:LEU:HB2	1:c:183:LYS:CG	2.26	0.65
1:d:180:LEU:HB2	1:d:183:LYS:CG	2.26	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:g:196:LEU:HD21	1:g:337:TYR:HA	1.78	0.65
1:h:492:ARG:NH2	1:k:512:PRO:HB2	2.12	0.65
1:k:180:LEU:HB2	1:k:183:LYS:CG	2.26	0.65
1:k:196:LEU:HD21	1:k:337:TYR:HA	1.78	0.65
1:t:287:ARG:NH1	1:u:174:GLU:OE2	2.30	0.65
1:2:196:LEU:HD21	1:2:337:TYR:HA	1.78	0.65
1:B:98:ASN:ND2	1:B:175:ASP:OD1	2.26	0.64
1:B:163:HIS:HB2	1:B:425:ARG:HH22	1.61	0.64
1:D:196:LEU:HD21	1:D:337:TYR:HA	1.78	0.64
1:F:180:LEU:HB2	1:F:183:LYS:CG	2.27	0.64
1:Q:163:HIS:HB2	1:Q:425:ARG:HH22	1.61	0.64
1:V:196:LEU:HD21	1:V:337:TYR:HA	1.78	0.64
1:c:196:LEU:HD21	1:c:337:TYR:HA	1.78	0.64
1:e:196:LEU:HD21	1:e:337:TYR:HA	1.78	0.64
1:g:512:PRO:HB2	1:z:492:ARG:NH2	2.12	0.64
1:l:196:LEU:HD21	1:l:337:TYR:HA	1.78	0.64
1:p:163:HIS:HB2	1:p:425:ARG:HH22	1.61	0.64
1:w:174:GLU:OE2	1:y:287:ARG:NH1	2.30	0.64
1:x:163:HIS:HB2	1:x:425:ARG:HH22	1.61	0.64
1:y:180:LEU:HB2	1:y:183:LYS:CG	2.26	0.64
1:1:163:HIS:HB2	1:1:425:ARG:HH22	1.61	0.64
1:8:196:LEU:HD21	1:8:337:TYR:HA	1.78	0.64
1:O:196:LEU:HD21	1:O:337:TYR:HA	1.78	0.64
1:S:196:LEU:HD21	1:S:337:TYR:HA	1.78	0.64
1:V:163:HIS:HB2	1:V:425:ARG:HH22	1.61	0.64
1:X:196:LEU:HD21	1:X:337:TYR:HA	1.78	0.64
1:Z:174:GLU:OE2	1:3:287:ARG:NH1	2.30	0.64
1:Z:196:LEU:HD21	1:Z:337:TYR:HA	1.78	0.64
1:e:180:LEU:HB2	1:e:183:LYS:CG	2.26	0.64
1:e:512:PRO:HB2	1:f:492:ARG:NH2	2.12	0.64
1:i:308:ARG:NH2	1:i:342:ASP:OD2	2.26	0.64
1:n:180:LEU:HB2	1:n:183:LYS:CG	2.27	0.64
1:o:196:LEU:HD21	1:o:337:TYR:HA	1.78	0.64
1:p:196:LEU:HD21	1:p:337:TYR:HA	1.78	0.64
1:u:287:ARG:NH1	1:v:174:GLU:OE2	2.30	0.64
1:w:180:LEU:HB2	1:w:183:LYS:CG	2.27	0.64
1:4:517:ASP:OD1	1:4:518:SER:N	2.30	0.64
1:C:174:GLU:OE2	1:M:287:ARG:NH1	2.30	0.64
1:C:287:ARG:NH1	1:b:174:GLU:OE2	2.31	0.64
1:F:174:GLU:OE2	1:Q:287:ARG:NH1	2.30	0.64
1:H:196:LEU:HD21	1:H:337:TYR:HA	1.78	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:517:ASP:OD1	1:K:518:SER:N	2.30	0.64
1:N:287:ARG:NH1	1:P:174:GLU:OE2	2.30	0.64
1:R:174:GLU:OE2	1:U:287:ARG:NH1	2.30	0.64
1:a:287:ARG:NH1	1:8:174:GLU:OE2	2.30	0.64
1:c:174:GLU:OE2	1:p:287:ARG:NH1	2.31	0.64
1:g:174:GLU:OE2	1:h:287:ARG:NH1	2.30	0.64
1:q:313:THR:O	1:s:291:TYR:OH	2.12	0.64
1:r:196:LEU:HD21	1:r:337:TYR:HA	1.78	0.64
1:x:287:ARG:NH1	1:y:174:GLU:OE2	2.30	0.64
1:z:291:TYR:OH	1:1:313:THR:O	2.12	0.64
1:5:196:LEU:HD21	1:5:337:TYR:HA	1.78	0.64
1:6:196:LEU:HD21	1:6:337:TYR:HA	1.78	0.64
1:B:313:THR:O	1:L:291:TYR:OH	2.12	0.64
1:B:492:ARG:NH2	1:I:512:PRO:HB2	2.13	0.64
1:C:308:ARG:NH2	1:C:342:ASP:OD2	2.26	0.64
1:E:174:GLU:OE2	1:F:287:ARG:NH1	2.31	0.64
1:U:196:LEU:HD21	1:U:337:TYR:HA	1.78	0.64
1:W:196:LEU:HD21	1:W:337:TYR:HA	1.78	0.64
1:c:287:ARG:NH1	1:o:174:GLU:OE2	2.30	0.64
1:g:308:ARG:NH2	1:g:342:ASP:OD2	2.26	0.64
1:i:287:ARG:NH1	1:j:174:GLU:OE2	2.30	0.64
1:m:291:TYR:OH	1:n:313:THR:O	2.12	0.64
1:q:174:GLU:OE2	1:s:287:ARG:NH1	2.30	0.64
1:s:196:LEU:HD21	1:s:337:TYR:HA	1.78	0.64
1:t:174:GLU:OE2	1:v:287:ARG:NH1	2.30	0.64
1:t:180:LEU:HB2	1:t:183:LYS:CG	2.27	0.64
1:u:512:PRO:HB2	1:1:492:ARG:NH2	2.13	0.64
1:A:174:GLU:OE2	1:I:287:ARG:NH1	2.31	0.64
1:A:287:ARG:NH1	1:G:174:GLU:OE2	2.30	0.64
1:G:180:LEU:HB2	1:G:183:LYS:CG	2.27	0.64
1:K:180:LEU:HB2	1:K:183:LYS:CG	2.26	0.64
1:N:517:ASP:OD1	1:N:518:SER:N	2.30	0.64
1:Q:196:LEU:HD21	1:Q:337:TYR:HA	1.78	0.64
1:b:163:HIS:HB2	1:b:425:ARG:HH22	1.61	0.64
1:f:174:GLU:OE2	1:g:287:ARG:NH1	2.31	0.64
1:i:517:ASP:OD1	1:i:518:SER:N	2.30	0.64
1:n:517:ASP:OD1	1:n:518:SER:N	2.30	0.64
1:r:287:ARG:NH1	1:s:174:GLU:OE2	2.30	0.64
1:v:180:LEU:HB2	1:v:183:LYS:CG	2.26	0.64
1:w:98:ASN:ND2	1:w:175:ASP:OD1	2.26	0.64
1:x:196:LEU:HD21	1:x:337:TYR:HA	1.78	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:196:LEU:HD21	1:A:337:TYR:HA	1.78	0.64
1:N:308:ARG:NH2	1:N:342:ASP:OD2	2.26	0.64
1:O:287:ARG:NH1	1:m:174:GLU:OE2	2.30	0.64
1:S:287:ARG:NH1	1:U:174:GLU:OE2	2.30	0.64
1:T:174:GLU:OE2	1:l:287:ARG:NH1	2.30	0.64
1:i:174:GLU:OE2	1:k:287:ARG:NH1	2.30	0.64
1:j:287:ARG:NH1	1:k:174:GLU:OE2	2.30	0.64
1:m:517:ASP:OD1	1:m:518:SER:N	2.30	0.64
1:s:98:ASN:ND2	1:s:175:ASP:OD1	2.26	0.64
1:v:196:LEU:HD21	1:v:337:TYR:HA	1.78	0.64
1:v:492:ARG:NH2	1:y:512:PRO:HB2	2.13	0.64
1:1:287:ARG:NH1	1:2:174:GLU:OE2	2.30	0.64
1:1:291:TYR:OH	1:2:313:THR:O	2.12	0.64
1:A:180:LEU:HB2	1:A:183:LYS:CG	2.26	0.64
1:A:313:THR:O	1:I:291:TYR:OH	2.12	0.64
1:A:492:ARG:NH2	1:F:512:PRO:HB2	2.13	0.64
1:B:287:ARG:NH1	1:J:174:GLU:OE2	2.30	0.64
1:B:512:PRO:HB2	1:I:492:ARG:NH2	2.13	0.64
1:D:174:GLU:OE2	1:P:287:ARG:NH1	2.30	0.64
1:D:287:ARG:NH1	1:N:174:GLU:OE2	2.30	0.64
1:K:287:ARG:NH1	1:a:174:GLU:OE2	2.30	0.64
1:O:174:GLU:OE2	1:n:287:ARG:NH1	2.30	0.64
1:Q:512:PRO:HB2	1:R:492:ARG:NH2	2.13	0.64
1:S:512:PRO:HB2	1:T:492:ARG:NH2	2.13	0.64
1:T:517:ASP:OD1	1:T:518:SER:N	2.30	0.64
1:V:287:ARG:NH1	1:e:174:GLU:OE2	2.31	0.64
1:Y:512:PRO:HB2	1:Z:492:ARG:NH2	2.13	0.64
1:Z:180:LEU:HB2	1:Z:183:LYS:CG	2.26	0.64
1:b:517:ASP:OD1	1:b:518:SER:N	2.30	0.64
1:h:517:ASP:OD1	1:h:518:SER:N	2.30	0.64
1:j:492:ARG:NH2	1:w:512:PRO:HB2	2.13	0.64
1:m:492:ARG:NH2	1:r:512:PRO:HB2	2.13	0.64
1:q:492:ARG:NH2	1:x:512:PRO:HB2	2.13	0.64
1:u:492:ARG:NH2	1:1:512:PRO:HB2	2.13	0.64
1:4:180:LEU:HB2	1:4:183:LYS:CG	2.26	0.64
1:8:180:LEU:HB2	1:8:183:LYS:CG	2.27	0.64
1:E:512:PRO:HB2	1:P:492:ARG:NH2	2.13	0.64
1:J:512:PRO:HB2	1:K:492:ARG:NH2	2.13	0.64
1:M:517:ASP:OD1	1:M:518:SER:N	2.30	0.64
1:S:180:LEU:HB2	1:S:183:LYS:CG	2.26	0.64
1:U:98:ASN:ND2	1:U:175:ASP:OD1	2.26	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:f:163:HIS:HB2	1:f:425:ARG:HH22	1.61	0.64
1:f:517:ASP:OD1	1:f:518:SER:N	2.30	0.64
1:r:180:LEU:HB2	1:r:183:LYS:CG	2.26	0.64
1:7:512:PRO:HB2	1:8:492:ARG:NH2	2.13	0.64
1:B:291:TYR:OH	1:J:313:THR:O	2.12	0.64
1:C:180:LEU:HB2	1:C:183:LYS:CG	2.27	0.64
1:D:517:ASP:OD1	1:D:518:SER:N	2.30	0.64
1:E:98:ASN:ND2	1:E:175:ASP:OD1	2.26	0.64
1:G:492:ARG:NH2	1:H:512:PRO:HB2	2.13	0.64
1:Q:492:ARG:NH2	1:R:512:PRO:HB2	2.13	0.64
1:b:512:PRO:HB2	1:c:492:ARG:NH2	2.13	0.64
1:g:180:LEU:HB2	1:g:183:LYS:CG	2.27	0.64
1:q:512:PRO:HB2	1:x:492:ARG:NH2	2.13	0.64
1:t:492:ARG:NH2	1:5:512:PRO:HB2	2.13	0.64
1:2:512:PRO:HB2	1:4:492:ARG:NH2	2.13	0.64
1:3:174:GLU:OE2	1:4:287:ARG:NH1	2.30	0.64
1:5:180:LEU:HB2	1:5:183:LYS:CG	2.26	0.64
1:N:390:ASN:O	1:N:391:GLN:HG2	1.98	0.64
1:S:492:ARG:NH2	1:T:512:PRO:HB2	2.13	0.64
1:X:163:HIS:HB2	1:X:425:ARG:HH22	1.61	0.64
1:b:492:ARG:NH2	1:c:512:PRO:HB2	2.13	0.64
1:g:313:THR:O	1:h:291:TYR:OH	2.12	0.64
1:i:390:ASN:O	1:i:391:GLN:HG2	1.98	0.64
1:i:512:PRO:HB2	1:l:492:ARG:NH2	2.13	0.64
1:k:517:ASP:OD1	1:k:518:SER:N	2.30	0.64
1:m:512:PRO:HB2	1:r:492:ARG:NH2	2.13	0.64
1:o:163:HIS:HB2	1:o:425:ARG:HH22	1.61	0.64
1:q:291:TYR:OH	1:r:313:THR:O	2.12	0.64
1:u:291:TYR:OH	1:v:313:THR:O	2.12	0.64
1:3:180:LEU:HB2	1:3:183:LYS:CG	2.26	0.64
1:5:287:ARG:NH1	1:6:174:GLU:OE2	2.30	0.64
1:E:492:ARG:NH2	1:P:512:PRO:HB2	2.13	0.63
1:H:287:ARG:NH1	1:W:174:GLU:OE2	2.30	0.63
1:I:390:ASN:O	1:I:391:GLN:HG2	1.98	0.63
1:K:390:ASN:O	1:K:391:GLN:HG2	1.98	0.63
1:V:180:LEU:HB2	1:V:183:LYS:CG	2.27	0.63
1:W:287:ARG:NH1	1:Y:174:GLU:OE2	2.30	0.63
1:a:390:ASN:O	1:a:391:GLN:HG2	1.98	0.63
1:b:390:ASN:O	1:b:391:GLN:HG2	1.98	0.63
1:d:163:HIS:HB2	1:d:425:ARG:HH22	1.61	0.63
1:d:390:ASN:O	1:d:391:GLN:HG2	1.99	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:f:390:ASN:O	1:f:391:GLN:HG2	1.98	0.63
1:i:492:ARG:NH2	1:l:512:PRO:HB2	2.13	0.63
1:j:512:PRO:HB2	1:w:492:ARG:NH2	2.13	0.63
1:p:180:LEU:HB2	1:p:183:LYS:CG	2.27	0.63
1:p:390:ASN:O	1:p:391:GLN:HG2	1.99	0.63
1:u:390:ASN:O	1:u:391:GLN:HG2	1.98	0.63
1:3:390:ASN:O	1:3:391:GLN:HG2	1.98	0.63
1:4:390:ASN:O	1:4:391:GLN:HG2	1.98	0.63
1:A:512:PRO:HB2	1:F:492:ARG:NH2	2.13	0.63
1:C:313:THR:O	1:M:291:TYR:OH	2.12	0.63
1:N:492:ARG:NH2	1:O:512:PRO:HB2	2.13	0.63
1:R:291:TYR:OH	1:S:313:THR:O	2.12	0.63
1:V:390:ASN:O	1:V:391:GLN:HG2	1.99	0.63
1:W:517:ASP:OD1	1:W:518:SER:N	2.30	0.63
1:X:308:ARG:NH2	1:X:342:ASP:OD2	2.26	0.63
1:a:180:LEU:HB2	1:a:183:LYS:CG	2.26	0.63
1:n:390:ASN:O	1:n:391:GLN:HG2	1.99	0.63
1:w:390:ASN:O	1:w:391:GLN:HG2	1.98	0.63
1:5:313:THR:O	1:7:291:TYR:OH	2.12	0.63
1:6:287:ARG:NH1	1:7:174:GLU:OE2	2.30	0.63
1:B:390:ASN:O	1:B:391:GLN:HG2	1.99	0.63
1:E:287:ARG:NH1	1:Q:174:GLU:OE2	2.30	0.63
1:E:390:ASN:O	1:E:391:GLN:HG2	1.98	0.63
1:H:313:THR:O	1:Y:291:TYR:OH	2.12	0.63
1:J:492:ARG:NH2	1:K:512:PRO:HB2	2.13	0.63
1:N:512:PRO:HB2	1:O:492:ARG:NH2	2.13	0.63
1:S:390:ASN:O	1:S:391:GLN:HG2	1.99	0.63
1:Y:492:ARG:NH2	1:Z:512:PRO:HB2	2.13	0.63
1:m:98:ASN:ND2	1:m:175:ASP:OD1	2.26	0.63
1:n:163:HIS:HB2	1:n:425:ARG:HH22	1.61	0.63
1:r:390:ASN:O	1:r:391:GLN:HG2	1.98	0.63
1:x:390:ASN:O	1:x:391:GLN:HG2	1.98	0.63
1:C:517:ASP:OD1	1:C:518:SER:N	2.30	0.63
1:G:517:ASP:OD1	1:G:518:SER:N	2.30	0.63
1:O:98:ASN:ND2	1:O:175:ASP:OD1	2.26	0.63
1:O:517:ASP:OD1	1:O:518:SER:N	2.30	0.63
1:Q:390:ASN:O	1:Q:391:GLN:HG2	1.98	0.63
1:T:287:ARG:NH1	1:d:174:GLU:OE2	2.32	0.63
1:V:517:ASP:OD1	1:V:518:SER:N	2.30	0.63
1:d:512:PRO:HB2	1:n:492:ARG:NH2	2.13	0.63
1:g:492:ARG:NH2	1:z:512:PRO:HB2	2.13	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:o:512:PRO:HB2	1:6:492:ARG:NH2	2.13	0.63
1:p:512:PRO:HB2	1:s:492:ARG:NH2	2.12	0.63
1:w:287:ARG:NH1	1:x:174:GLU:OE2	2.30	0.63
1:1:390:ASN:O	1:1:391:GLN:HG2	1.99	0.63
1:2:492:ARG:NH2	1:4:512:PRO:HB2	2.13	0.63
1:6:517:ASP:OD1	1:6:518:SER:N	2.30	0.63
1:C:492:ARG:NH2	1:L:512:PRO:HB2	2.13	0.63
1:E:517:ASP:OD1	1:E:518:SER:N	2.30	0.63
1:H:226:GLU:OE2	1:H:451:LYS:NZ	2.32	0.63
1:H:390:ASN:O	1:H:391:GLN:HG2	1.99	0.63
1:O:226:GLU:OE2	1:O:451:LYS:NZ	2.32	0.63
1:O:390:ASN:O	1:O:391:GLN:HG2	1.98	0.63
1:P:390:ASN:O	1:P:391:GLN:HG2	1.99	0.63
1:T:98:ASN:ND2	1:T:175:ASP:OD1	2.26	0.63
1:U:492:ARG:NH2	1:V:512:PRO:HB2	2.12	0.63
1:X:226:GLU:OE2	1:X:451:LYS:NZ	2.32	0.63
1:Y:390:ASN:O	1:Y:391:GLN:HG2	1.98	0.63
1:a:226:GLU:OE2	1:a:451:LYS:NZ	2.32	0.63
1:e:390:ASN:O	1:e:391:GLN:HG2	1.99	0.63
1:l:517:ASP:OD1	1:l:518:SER:N	2.30	0.63
1:o:226:GLU:OE2	1:o:451:LYS:NZ	2.32	0.63
1:v:512:PRO:HB2	1:y:492:ARG:NH2	2.13	0.63
1:3:226:GLU:OE2	1:3:451:LYS:NZ	2.32	0.63
1:6:291:TYR:OH	1:7:313:THR:O	2.12	0.63
1:7:390:ASN:O	1:7:391:GLN:HG2	1.98	0.63
1:7:492:ARG:NH2	1:8:512:PRO:HB2	2.13	0.63
1:F:517:ASP:OD1	1:F:518:SER:N	2.30	0.63
1:G:512:PRO:HB2	1:H:492:ARG:NH2	2.13	0.63
1:M:390:ASN:O	1:M:391:GLN:HG2	1.98	0.63
1:U:390:ASN:O	1:U:391:GLN:HG2	1.99	0.63
1:W:390:ASN:O	1:W:391:GLN:HG2	1.99	0.63
1:W:492:ARG:NH2	1:X:512:PRO:HB2	2.13	0.63
1:c:390:ASN:O	1:c:391:GLN:HG2	1.98	0.63
1:g:517:ASP:OD1	1:g:518:SER:N	2.30	0.63
1:j:390:ASN:O	1:j:391:GLN:HG2	1.99	0.63
1:l:226:GLU:OE2	1:l:451:LYS:NZ	2.32	0.63
1:p:517:ASP:OD1	1:p:518:SER:N	2.30	0.63
1:s:517:ASP:OD1	1:s:518:SER:N	2.30	0.63
1:t:512:PRO:HB2	1:5:492:ARG:NH2	2.13	0.63
1:t:517:ASP:OD1	1:t:518:SER:N	2.30	0.63
1:w:517:ASP:OD1	1:w:518:SER:N	2.30	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:y:517:ASP:OD1	1:y:518:SER:N	2.30	0.63
1:5:226:GLU:OE2	1:5:451:LYS:NZ	2.32	0.63
1:5:390:ASN:O	1:5:391:GLN:HG2	1.99	0.63
1:6:390:ASN:O	1:6:391:GLN:HG2	1.99	0.63
1:I:226:GLU:OE2	1:I:451:LYS:NZ	2.32	0.63
1:W:291:TYR:OH	1:Y:313:THR:O	2.12	0.63
1:i:313:THR:O	1:k:291:TYR:OH	2.12	0.63
1:l:390:ASN:O	1:l:391:GLN:HG2	1.99	0.63
1:s:390:ASN:O	1:s:391:GLN:HG2	1.99	0.63
1:u:226:GLU:OE2	1:u:451:LYS:NZ	2.32	0.63
1:7:517:ASP:OD1	1:7:518:SER:N	2.30	0.63
1:D:390:ASN:O	1:D:391:GLN:HG2	1.99	0.63
1:R:390:ASN:O	1:R:391:GLN:HG2	1.99	0.63
1:U:517:ASP:OD1	1:U:518:SER:N	2.30	0.63
1:W:98:ASN:ND2	1:W:175:ASP:OD1	2.26	0.63
1:h:390:ASN:O	1:h:391:GLN:HG2	1.98	0.63
1:l:98:ASN:ND2	1:l:175:ASP:OD1	2.26	0.63
1:q:390:ASN:O	1:q:391:GLN:HG2	1.99	0.63
1:3:313:THR:O	1:4:291:TYR:OH	2.12	0.63
1:6:98:ASN:ND2	1:6:175:ASP:OD1	2.26	0.63
1:F:390:ASN:O	1:F:391:GLN:HG2	1.99	0.63
1:M:226:GLU:OE2	1:M:451:LYS:NZ	2.32	0.63
1:Y:517:ASP:OD1	1:Y:518:SER:N	2.30	0.63
1:k:390:ASN:O	1:k:391:GLN:HG2	1.99	0.63
1:p:492:ARG:NH2	1:s:512:PRO:HB2	2.13	0.63
1:O:153:ALA:HA	1:d:134:GLN:NE2	2.13	0.62
1:h:226:GLU:OE2	1:h:451:LYS:NZ	2.32	0.62
1:y:390:ASN:O	1:y:391:GLN:HG2	1.98	0.62
1:D:291:TYR:OH	1:N:313:THR:O	2.12	0.62
1:J:390:ASN:O	1:J:391:GLN:HG2	1.98	0.62
1:K:291:TYR:OH	1:a:313:THR:O	2.12	0.62
1:L:390:ASN:O	1:L:391:GLN:HG2	1.99	0.62
1:U:512:PRO:HB2	1:V:492:ARG:NH2	2.13	0.62
1:p:226:GLU:OE2	1:p:451:LYS:NZ	2.32	0.62
1:z:390:ASN:O	1:z:391:GLN:HG2	1.99	0.62
1:D:492:ARG:NH2	1:M:512:PRO:HB2	2.13	0.62
1:L:226:GLU:OE2	1:L:451:LYS:NZ	2.32	0.62
1:O:76:ILE:HD11	1:d:510:VAL:HG11	1.81	0.62
1:R:517:ASP:OD1	1:R:518:SER:N	2.30	0.62
1:V:226:GLU:OE2	1:V:451:LYS:NZ	2.32	0.62
1:q:517:ASP:OD1	1:q:518:SER:N	2.30	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:2:390:ASN:O	1:2:391:GLN:HG2	1.98	0.62
1:c:517:ASP:OD1	1:c:518:SER:N	2.30	0.62
1:d:492:ARG:NH2	1:n:512:PRO:HB2	2.14	0.62
1:g:390:ASN:O	1:g:391:GLN:HG2	1.99	0.62
1:m:390:ASN:O	1:m:391:GLN:HG2	1.98	0.62
1:w:291:TYR:OH	1:x:313:THR:O	2.12	0.62
1:z:226:GLU:OE2	1:z:451:LYS:NZ	2.32	0.62
1:C:390:ASN:O	1:C:391:GLN:HG2	1.99	0.62
1:T:390:ASN:O	1:T:391:GLN:HG2	1.98	0.62
1:h:512:PRO:HB2	1:k:492:ARG:NH2	2.13	0.62
1:o:390:ASN:O	1:o:391:GLN:HG2	1.98	0.62
1:8:390:ASN:O	1:8:391:GLN:HG2	1.99	0.62
1:B:78:ASN:OD1	1:B:86:SER:OG	2.18	0.62
1:E:291:TYR:OH	1:Q:313:THR:O	2.12	0.62
1:G:390:ASN:O	1:G:391:GLN:HG2	1.98	0.62
1:O:78:ASN:OD1	1:O:86:SER:OG	2.18	0.62
1:X:390:ASN:O	1:X:391:GLN:HG2	1.98	0.62
1:Z:390:ASN:O	1:Z:391:GLN:HG2	1.99	0.62
1:e:517:ASP:OD1	1:e:518:SER:N	2.30	0.62
1:f:226:GLU:OE2	1:f:451:LYS:NZ	2.32	0.62
1:t:390:ASN:O	1:t:391:GLN:HG2	1.98	0.62
1:6:226:GLU:OE2	1:6:451:LYS:NZ	2.32	0.62
1:C:226:GLU:OE2	1:C:451:LYS:NZ	2.32	0.62
1:K:313:THR:O	1:8:291:TYR:OH	2.12	0.62
1:M:78:ASN:OD1	1:M:86:SER:OG	2.18	0.62
1:Q:78:ASN:OD1	1:Q:86:SER:OG	2.18	0.62
1:T:44:VAL:HG22	1:T:57:LYS:HD2	1.82	0.62
1:W:226:GLU:OE2	1:W:451:LYS:NZ	2.32	0.62
1:a:512:PRO:HB2	1:3:492:ARG:NH2	2.13	0.62
1:l:78:ASN:OD1	1:l:86:SER:OG	2.18	0.62
1:m:44:VAL:HG22	1:m:57:LYS:HD2	1.82	0.62
1:r:291:TYR:OH	1:s:313:THR:O	2.12	0.62
1:y:98:ASN:ND2	1:y:175:ASP:OD1	2.26	0.62
1:1:78:ASN:OD1	1:1:86:SER:OG	2.18	0.62
1:D:44:VAL:HG22	1:D:57:LYS:HD2	1.82	0.62
1:E:78:ASN:OD1	1:E:86:SER:OG	2.18	0.62
1:S:291:TYR:OH	1:U:313:THR:O	2.12	0.62
1:T:78:ASN:OD1	1:T:86:SER:OG	2.18	0.62
1:X:44:VAL:HG22	1:X:57:LYS:HD2	1.82	0.62
1:a:492:ARG:NH2	1:3:512:PRO:HB2	2.13	0.62
1:h:78:ASN:OD1	1:h:86:SER:OG	2.18	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:k:44:VAL:HG22	1:k:57:LYS:HD2	1.82	0.62
1:o:44:VAL:HG22	1:o:57:LYS:HD2	1.82	0.62
1:r:78:ASN:OD1	1:r:86:SER:OG	2.18	0.62
1:x:78:ASN:OD1	1:x:86:SER:OG	2.18	0.62
1:8:78:ASN:OD1	1:8:86:SER:OG	2.18	0.62
1:F:78:ASN:OD1	1:F:86:SER:OG	2.18	0.62
1:G:226:GLU:OE2	1:G:451:LYS:NZ	2.32	0.62
1:J:78:ASN:OD1	1:J:86:SER:OG	2.18	0.62
1:X:174:GLU:OE2	1:e:287:ARG:NH1	2.33	0.62
1:Z:78:ASN:OD1	1:Z:86:SER:OG	2.18	0.62
1:a:78:ASN:OD1	1:a:86:SER:OG	2.18	0.62
1:a:517:ASP:OD1	1:a:518:SER:N	2.30	0.62
1:b:78:ASN:OD1	1:b:86:SER:OG	2.18	0.62
1:d:78:ASN:OD1	1:d:86:SER:OG	2.18	0.62
1:f:78:ASN:OD1	1:f:86:SER:OG	2.18	0.62
1:g:226:GLU:OE2	1:g:451:LYS:NZ	2.32	0.62
1:m:78:ASN:OD1	1:m:86:SER:OG	2.18	0.62
1:w:78:ASN:OD1	1:w:86:SER:OG	2.18	0.62
1:y:78:ASN:OD1	1:y:86:SER:OG	2.18	0.62
1:2:78:ASN:OD1	1:2:86:SER:OG	2.18	0.62
1:F:98:ASN:ND2	1:F:175:ASP:OD1	2.26	0.62
1:M:44:VAL:HG22	1:M:57:LYS:HD2	1.82	0.62
1:S:78:ASN:OD1	1:S:86:SER:OG	2.18	0.62
1:U:226:GLU:OE2	1:U:451:LYS:NZ	2.32	0.62
1:V:78:ASN:OD1	1:V:86:SER:OG	2.18	0.62
1:Y:44:VAL:HG22	1:Y:57:LYS:HD2	1.82	0.62
1:Z:291:TYR:OH	1:4:313:THR:O	2.12	0.62
1:e:78:ASN:OD1	1:e:86:SER:OG	2.18	0.62
1:e:134:GLN:NE2	1:h:153:ALA:HA	2.15	0.62
1:p:78:ASN:OD1	1:p:86:SER:OG	2.18	0.62
1:s:78:ASN:OD1	1:s:86:SER:OG	2.18	0.62
1:u:78:ASN:OD1	1:u:86:SER:OG	2.18	0.62
1:v:390:ASN:O	1:v:391:GLN:HG2	1.98	0.62
1:3:78:ASN:OD1	1:3:86:SER:OG	2.18	0.62
1:A:44:VAL:HG22	1:A:57:LYS:HD2	1.82	0.61
1:B:44:VAL:HG22	1:B:57:LYS:HD2	1.82	0.61
1:D:78:ASN:OD1	1:D:86:SER:OG	2.18	0.61
1:I:78:ASN:OD1	1:I:86:SER:OG	2.18	0.61
1:P:44:VAL:HG22	1:P:57:LYS:HD2	1.82	0.61
1:R:226:GLU:OE2	1:R:451:LYS:NZ	2.32	0.61
1:W:78:ASN:OD1	1:W:86:SER:OG	2.18	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:X:416:GLU:HB3	1:e:270:ARG:HH22	1.65	0.61
1:Z:226:GLU:OE2	1:Z:451:LYS:NZ	2.32	0.61
1:a:44:VAL:HG22	1:a:57:LYS:HD2	1.82	0.61
1:c:78:ASN:OD1	1:c:86:SER:OG	2.18	0.61
1:h:44:VAL:HG22	1:h:57:LYS:HD2	1.82	0.61
1:k:78:ASN:OD1	1:k:86:SER:OG	2.18	0.61
1:s:226:GLU:OE2	1:s:451:LYS:NZ	2.32	0.61
1:t:226:GLU:OE2	1:t:451:LYS:NZ	2.32	0.61
1:z:78:ASN:OD1	1:z:86:SER:OG	2.18	0.61
1:1:44:VAL:HG22	1:1:57:LYS:HD2	1.82	0.61
1:3:44:VAL:HG22	1:3:57:LYS:HD2	1.82	0.61
1:3:517:ASP:OD1	1:3:518:SER:N	2.30	0.61
1:6:78:ASN:OD1	1:6:86:SER:OG	2.18	0.61
1:7:44:VAL:HG22	1:7:57:LYS:HD2	1.82	0.61
1:A:390:ASN:O	1:A:391:GLN:HG2	1.98	0.61
1:A:542:LEU:O	1:G:422:LYS:NZ	2.34	0.61
1:E:226:GLU:OE2	1:E:451:LYS:NZ	2.32	0.61
1:F:44:VAL:HG22	1:F:57:LYS:HD2	1.82	0.61
1:I:44:VAL:HG22	1:I:57:LYS:HD2	1.82	0.61
1:J:226:GLU:OE2	1:J:451:LYS:NZ	2.32	0.61
1:L:78:ASN:OD1	1:L:86:SER:OG	2.18	0.61
1:U:78:ASN:OD1	1:U:86:SER:OG	2.18	0.61
1:Z:422:LYS:NZ	1:3:542:LEU:O	2.33	0.61
1:j:44:VAL:HG22	1:j:57:LYS:HD2	1.82	0.61
1:k:226:GLU:OE2	1:k:451:LYS:NZ	2.32	0.61
1:q:226:GLU:OE2	1:q:451:LYS:NZ	2.32	0.61
1:v:44:VAL:HG22	1:v:57:LYS:HD2	1.82	0.61
1:2:226:GLU:OE2	1:2:451:LYS:NZ	2.32	0.61
1:B:226:GLU:OE2	1:B:451:LYS:NZ	2.32	0.61
1:B:542:LEU:O	1:J:422:LYS:NZ	2.34	0.61
1:D:226:GLU:OE2	1:D:451:LYS:NZ	2.32	0.61
1:G:270:ARG:HH22	1:I:416:GLU:HB3	1.66	0.61
1:H:517:ASP:OD1	1:H:518:SER:N	2.30	0.61
1:W:44:VAL:HG22	1:W:57:LYS:HD2	1.82	0.61
1:W:542:LEU:O	1:Y:422:LYS:NZ	2.33	0.61
1:a:542:LEU:O	1:8:422:LYS:NZ	2.33	0.61
1:t:270:ARG:HH22	1:u:416:GLU:HB3	1.66	0.61
1:u:44:VAL:HG22	1:u:57:LYS:HD2	1.82	0.61
1:y:44:VAL:HG22	1:y:57:LYS:HD2	1.82	0.61
1:4:226:GLU:OE2	1:4:451:LYS:NZ	2.32	0.61
1:5:44:VAL:HG22	1:5:57:LYS:HD2	1.82	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:6:542:LEU:O	1:7:422:LYS:NZ	2.33	0.61
1:8:226:GLU:OE2	1:8:451:LYS:NZ	2.32	0.61
1:H:44:VAL:HG22	1:H:57:LYS:HD2	1.82	0.61
1:H:422:LYS:NZ	1:Y:542:LEU:O	2.33	0.61
1:K:226:GLU:OE2	1:K:451:LYS:NZ	2.32	0.61
1:P:226:GLU:OE2	1:P:451:LYS:NZ	2.32	0.61
1:X:422:LYS:NZ	1:e:542:LEU:O	2.34	0.61
1:p:44:VAL:HG22	1:p:57:LYS:HD2	1.82	0.61
1:s:44:VAL:HG22	1:s:57:LYS:HD2	1.82	0.61
1:t:422:LYS:NZ	1:v:542:LEU:O	2.34	0.61
1:w:226:GLU:OE2	1:w:451:LYS:NZ	2.32	0.61
1:z:313:THR:O	1:2:291:TYR:OH	2.12	0.61
1:1:542:LEU:O	1:2:422:LYS:NZ	2.34	0.61
1:5:422:LYS:NZ	1:7:542:LEU:O	2.33	0.61
1:5:517:ASP:OD1	1:5:518:SER:N	2.30	0.61
1:6:44:VAL:HG22	1:6:57:LYS:HD2	1.82	0.61
1:H:542:LEU:O	1:W:422:LYS:NZ	2.33	0.61
1:I:517:ASP:OD1	1:I:518:SER:N	2.30	0.61
1:U:44:VAL:HG22	1:U:57:LYS:HD2	1.82	0.61
1:V:44:VAL:HG22	1:V:57:LYS:HD2	1.82	0.61
1:j:226:GLU:OE2	1:j:451:LYS:NZ	2.32	0.61
1:l:44:VAL:HG22	1:l:57:LYS:HD2	1.82	0.61
1:z:422:LYS:NZ	1:2:542:LEU:O	2.34	0.61
1:F:422:LYS:NZ	1:Q:542:LEU:O	2.34	0.61
1:J:291:TYR:OH	1:L:313:THR:O	2.12	0.61
1:T:422:LYS:NZ	1:l:542:LEU:O	2.34	0.61
1:i:416:GLU:HB3	1:k:270:ARG:HH22	1.66	0.61
1:m:542:LEU:O	1:n:422:LYS:NZ	2.34	0.61
1:x:542:LEU:O	1:y:422:LYS:NZ	2.34	0.61
1:z:44:VAL:HG22	1:z:57:LYS:HD2	1.82	0.61
1:1:226:GLU:OE2	1:1:451:LYS:NZ	2.32	0.61
1:5:542:LEU:O	1:6:422:LYS:NZ	2.33	0.61
1:B:270:ARG:HH22	1:J:416:GLU:HB3	1.66	0.61
1:C:542:LEU:O	1:b:422:LYS:NZ	2.34	0.61
1:D:270:ARG:HH22	1:N:416:GLU:HB3	1.66	0.61
1:L:44:VAL:HG22	1:L:57:LYS:HD2	1.82	0.61
1:O:44:VAL:HG22	1:O:57:LYS:HD2	1.82	0.61
1:O:422:LYS:NZ	1:n:542:LEU:O	2.34	0.61
1:R:44:VAL:HG22	1:R:57:LYS:HD2	1.82	0.61
1:R:270:ARG:HH22	1:S:416:GLU:HB3	1.66	0.61
1:S:542:LEU:O	1:U:422:LYS:NZ	2.34	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:c:542:LEU:O	1:o:422:LYS:NZ	2.34	0.61
1:f:422:LYS:NZ	1:g:542:LEU:O	2.34	0.61
1:j:542:LEU:O	1:k:422:LYS:NZ	2.33	0.61
1:r:542:LEU:O	1:s:422:LYS:NZ	2.34	0.61
1:t:44:VAL:HG22	1:t:57:LYS:HD2	1.82	0.61
1:v:134:GLN:NE2	1:w:153:ALA:HA	2.16	0.61
1:4:495:ARG:O	1:4:496:ARG:NH1	2.34	0.61
1:A:134:GLN:NE2	1:E:153:ALA:HA	2.16	0.61
1:E:422:LYS:NZ	1:F:542:LEU:O	2.34	0.61
1:E:542:LEU:O	1:Q:422:LYS:NZ	2.34	0.61
1:F:495:ARG:O	1:F:496:ARG:NH1	2.34	0.61
1:G:44:VAL:HG22	1:G:57:LYS:HD2	1.82	0.61
1:H:416:GLU:HB3	1:Y:270:ARG:HH22	1.66	0.61
1:K:495:ARG:O	1:K:496:ARG:NH1	2.34	0.61
1:L:495:ARG:O	1:L:496:ARG:NH1	2.34	0.61
1:Q:44:VAL:HG22	1:Q:57:LYS:HD2	1.82	0.61
1:q:44:VAL:HG22	1:q:57:LYS:HD2	1.82	0.61
1:q:270:ARG:HH22	1:r:416:GLU:HB3	1.66	0.61
1:u:517:ASP:OD1	1:u:518:SER:N	2.30	0.61
1:v:78:ASN:OD1	1:v:86:SER:OG	2.18	0.61
1:z:495:ARG:O	1:z:496:ARG:NH1	2.34	0.61
1:1:270:ARG:HH22	1:2:416:GLU:HB3	1.66	0.61
1:2:517:ASP:OD1	1:2:518:SER:N	2.30	0.61
1:A:78:ASN:OD1	1:A:86:SER:OG	2.18	0.61
1:C:78:ASN:OD1	1:C:86:SER:OG	2.18	0.61
1:D:422:LYS:NZ	1:P:542:LEU:O	2.33	0.61
1:F:226:GLU:OE2	1:F:451:LYS:NZ	2.32	0.61
1:M:134:GLN:NE2	1:N:153:ALA:HA	2.16	0.61
1:M:422:LYS:NZ	1:b:542:LEU:O	2.34	0.61
1:N:542:LEU:O	1:P:422:LYS:NZ	2.33	0.61
1:Y:78:ASN:OD1	1:Y:86:SER:OG	2.18	0.61
1:Y:226:GLU:OE2	1:Y:451:LYS:NZ	2.32	0.61
1:d:542:LEU:O	1:l:422:LYS:NZ	2.34	0.61
1:q:416:GLU:HB3	1:s:270:ARG:HH22	1.66	0.61
1:w:422:LYS:NZ	1:y:542:LEU:O	2.34	0.61
1:w:427:ASP:OD2	1:y:535:LYS:NZ	2.28	0.61
1:w:542:LEU:O	1:x:422:LYS:NZ	2.34	0.61
1:x:44:VAL:HG22	1:x:57:LYS:HD2	1.82	0.61
1:5:416:GLU:HB3	1:7:270:ARG:HH22	1.66	0.61
1:A:422:LYS:NZ	1:I:542:LEU:O	2.34	0.61
1:F:416:GLU:HB3	1:Q:270:ARG:HH22	1.66	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:78:ASN:OD1	1:G:86:SER:OG	2.18	0.61
1:G:134:GLN:NE2	1:W:153:ALA:HA	2.16	0.61
1:H:291:TYR:OH	1:W:313:THR:O	2.12	0.61
1:K:78:ASN:OD1	1:K:86:SER:OG	2.18	0.61
1:K:270:ARG:HH22	1:a:416:GLU:HB3	1.66	0.61
1:M:153:ALA:HA	1:c:134:GLN:NE2	2.16	0.61
1:R:416:GLU:HB3	1:U:270:ARG:HH22	1.66	0.61
1:R:422:LYS:NZ	1:U:542:LEU:O	2.34	0.61
1:g:44:VAL:HG22	1:g:57:LYS:HD2	1.82	0.61
1:h:134:GLN:NE2	1:i:153:ALA:HA	2.16	0.61
1:i:542:LEU:O	1:j:422:LYS:NZ	2.33	0.61
1:n:44:VAL:HG22	1:n:57:LYS:HD2	1.82	0.61
1:n:78:ASN:OD1	1:n:86:SER:OG	2.18	0.61
1:q:422:LYS:NZ	1:s:542:LEU:O	2.34	0.61
1:u:542:LEU:O	1:v:422:LYS:NZ	2.34	0.61
1:x:270:ARG:HH22	1:y:416:GLU:HB3	1.66	0.61
1:y:495:ARG:O	1:y:496:ARG:NH1	2.34	0.61
1:4:78:ASN:OD1	1:4:86:SER:OG	2.18	0.61
1:D:153:ALA:HA	1:E:134:GLN:NE2	2.16	0.60
1:G:542:LEU:O	1:I:422:LYS:NZ	2.34	0.60
1:H:270:ARG:HH22	1:W:416:GLU:HB3	1.66	0.60
1:V:313:THR:O	1:X:291:TYR:OH	2.12	0.60
1:X:78:ASN:OD1	1:X:86:SER:OG	2.18	0.60
1:Z:44:VAL:HG22	1:Z:57:LYS:HD2	1.82	0.60
1:d:44:VAL:HG22	1:d:57:LYS:HD2	1.82	0.60
1:g:78:ASN:OD1	1:g:86:SER:OG	2.18	0.60
1:o:78:ASN:OD1	1:o:86:SER:OG	2.18	0.60
1:o:134:GLN:NE2	1:7:153:ALA:HA	2.16	0.60
1:t:78:ASN:OD1	1:t:86:SER:OG	2.18	0.60
1:t:134:GLN:NE2	1:6:153:ALA:HA	2.16	0.60
1:t:542:LEU:O	1:u:422:LYS:NZ	2.34	0.60
1:3:134:GLN:NE2	1:8:153:ALA:HA	2.16	0.60
1:3:416:GLU:HB3	1:4:270:ARG:HH22	1.66	0.60
1:5:270:ARG:HH22	1:6:416:GLU:HB3	1.66	0.60
1:7:78:ASN:OD1	1:7:86:SER:OG	2.18	0.60
1:A:153:ALA:HA	1:B:134:GLN:NE2	2.17	0.60
1:A:517:ASP:OD1	1:A:518:SER:N	2.30	0.60
1:C:44:VAL:HG22	1:C:57:LYS:HD2	1.82	0.60
1:C:270:ARG:HH22	1:b:416:GLU:HB3	1.66	0.60
1:P:78:ASN:OD1	1:P:86:SER:OG	2.18	0.60
1:S:44:VAL:HG22	1:S:57:LYS:HD2	1.82	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:X:134:GLN:NE2	1:Y:153:ALA:HA	2.16	0.60
1:Z:153:ALA:HA	1:a:134:GLN:NE2	2.16	0.60
1:e:76:ILE:HG12	1:e:88:ARG:HD2	1.84	0.60
1:f:416:GLU:HB3	1:g:270:ARG:HH22	1.66	0.60
1:j:78:ASN:OD1	1:j:86:SER:OG	2.18	0.60
1:k:153:ALA:HA	1:w:134:GLN:NE2	2.16	0.60
1:n:226:GLU:OE2	1:n:451:LYS:NZ	2.32	0.60
1:o:291:TYR:OH	1:p:313:THR:O	2.12	0.60
1:7:226:GLU:OE2	1:7:451:LYS:NZ	2.32	0.60
1:8:44:VAL:HG22	1:8:57:LYS:HD2	1.82	0.60
1:E:416:GLU:HB3	1:F:270:ARG:HH22	1.66	0.60
1:H:78:ASN:OD1	1:H:86:SER:OG	2.18	0.60
1:I:495:ARG:O	1:I:496:ARG:NH1	2.34	0.60
1:O:542:LEU:O	1:m:422:LYS:NZ	2.33	0.60
1:V:76:ILE:HG12	1:V:88:ARG:HD2	1.84	0.60
1:V:422:LYS:NZ	1:X:542:LEU:O	2.33	0.60
1:Z:270:ARG:HH22	1:4:416:GLU:HB3	1.66	0.60
1:c:76:ILE:HG12	1:c:88:ARG:HD2	1.84	0.60
1:c:153:ALA:HA	1:s:134:GLN:NE2	2.17	0.60
1:d:226:GLU:OE2	1:d:451:LYS:NZ	2.32	0.60
1:p:76:ILE:HG12	1:p:88:ARG:HD2	1.84	0.60
1:r:44:VAL:HG22	1:r:57:LYS:HD2	1.82	0.60
1:v:153:ALA:HA	1:1:134:GLN:NE2	2.17	0.60
1:w:416:GLU:HB3	1:y:270:ARG:HH22	1.66	0.60
1:A:76:ILE:HG12	1:A:88:ARG:HD2	1.84	0.60
1:E:76:ILE:HG12	1:E:88:ARG:HD2	1.84	0.60
1:J:134:GLN:NE2	1:a:153:ALA:HA	2.17	0.60
1:K:416:GLU:HB3	1:8:270:ARG:HH22	1.66	0.60
1:R:542:LEU:O	1:S:422:LYS:NZ	2.34	0.60
1:Z:416:GLU:HB3	1:3:270:ARG:HH22	1.66	0.60
1:b:44:VAL:HG22	1:b:57:LYS:HD2	1.82	0.60
1:i:44:VAL:HG22	1:i:57:LYS:HD2	1.82	0.60
1:u:495:ARG:O	1:u:496:ARG:NH1	2.34	0.60
1:5:78:ASN:OD1	1:5:86:SER:OG	2.18	0.60
1:B:422:LYS:NZ	1:L:542:LEU:O	2.34	0.60
1:D:416:GLU:HB3	1:P:270:ARG:HH22	1.66	0.60
1:H:76:ILE:HD11	1:Z:510:VAL:HG11	1.84	0.60
1:H:495:ARG:O	1:H:496:ARG:NH1	2.34	0.60
1:J:76:ILE:HG12	1:J:88:ARG:HD2	1.84	0.60
1:K:422:LYS:NZ	1:8:542:LEU:O	2.33	0.60
1:K:542:LEU:O	1:a:422:LYS:NZ	2.34	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:495:ARG:O	1:M:496:ARG:NH1	2.34	0.60
1:N:44:VAL:HG22	1:N:57:LYS:HD2	1.82	0.60
1:N:76:ILE:HG12	1:N:88:ARG:HD2	1.84	0.60
1:N:134:GLN:NE2	1:m:153:ALA:HA	2.17	0.60
1:O:76:ILE:HG12	1:O:88:ARG:HD2	1.84	0.60
1:O:134:GLN:NE2	1:P:153:ALA:HA	2.16	0.60
1:R:78:ASN:OD1	1:R:86:SER:OG	2.18	0.60
1:T:134:GLN:NE2	1:U:153:ALA:HA	2.17	0.60
1:T:153:ALA:HA	1:i:134:GLN:NE2	2.17	0.60
1:Y:495:ARG:O	1:Y:496:ARG:NH1	2.34	0.60
1:a:270:ARG:HH22	1:8:416:GLU:HB3	1.66	0.60
1:f:313:THR:O	1:g:291:TYR:OH	2.12	0.60
1:g:495:ARG:O	1:g:496:ARG:NH1	2.34	0.60
1:j:153:ALA:HA	1:l:134:GLN:NE2	2.16	0.60
1:j:270:ARG:HH22	1:k:416:GLU:HB3	1.66	0.60
1:l:76:ILE:HG12	1:l:88:ARG:HD2	1.84	0.60
1:o:542:LEU:O	1:p:422:LYS:NZ	2.33	0.60
1:p:153:ALA:HA	1:6:134:GLN:NE2	2.17	0.60
1:v:517:ASP:OD1	1:v:518:SER:N	2.30	0.60
1:w:76:ILE:HG12	1:w:88:ARG:HD2	1.84	0.60
1:2:134:GLN:NE2	1:3:153:ALA:HA	2.17	0.60
1:3:422:LYS:NZ	1:4:542:LEU:O	2.34	0.60
1:5:495:ARG:O	1:5:496:ARG:NH1	2.34	0.60
1:C:495:ARG:O	1:C:496:ARG:NH1	2.34	0.60
1:F:153:ALA:HA	1:R:134:GLN:NE2	2.17	0.60
1:H:153:ALA:HA	1:Z:134:GLN:NE2	2.16	0.60
1:M:313:THR:O	1:b:291:TYR:OH	2.12	0.60
1:N:78:ASN:OD1	1:N:86:SER:OG	2.18	0.60
1:N:226:GLU:OE2	1:N:451:LYS:NZ	2.32	0.60
1:N:495:ARG:O	1:N:496:ARG:NH1	2.34	0.60
1:f:44:VAL:HG22	1:f:57:LYS:HD2	1.82	0.60
1:h:495:ARG:O	1:h:496:ARG:NH1	2.34	0.60
1:i:76:ILE:HG12	1:i:88:ARG:HD2	1.84	0.60
1:i:226:GLU:OE2	1:i:451:LYS:NZ	2.32	0.60
1:i:422:LYS:NZ	1:k:542:LEU:O	2.33	0.60
1:m:134:GLN:NE2	1:s:153:ALA:HA	2.17	0.60
1:m:495:ARG:O	1:m:496:ARG:NH1	2.34	0.60
1:p:510:VAL:HG11	1:q:76:ILE:HD11	1.84	0.60
1:q:78:ASN:OD1	1:q:86:SER:OG	2.18	0.60
1:v:76:ILE:HG12	1:v:88:ARG:HD2	1.84	0.60
1:z:416:GLU:HB3	1:2:270:ARG:HH22	1.66	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:z:517:ASP:OD1	1:z:518:SER:N	2.30	0.60
1:1:517:ASP:OD1	1:1:518:SER:N	2.30	0.60
1:2:76:ILE:HG12	1:2:88:ARG:HD2	1.84	0.60
1:5:76:ILE:HD11	1:8:510:VAL:HG11	1.84	0.60
1:8:76:ILE:HG12	1:8:88:ARG:HD2	1.84	0.60
1:D:542:LEU:O	1:N:422:LYS:NZ	2.33	0.60
1:E:44:VAL:HG22	1:E:57:LYS:HD2	1.82	0.60
1:K:44:VAL:HG22	1:K:57:LYS:HD2	1.82	0.60
1:R:76:ILE:HD11	1:V:510:VAL:HG11	1.84	0.60
1:T:495:ARG:O	1:T:496:ARG:NH1	2.34	0.60
1:V:153:ALA:HA	1:W:134:GLN:NE2	2.17	0.60
1:Z:76:ILE:HD11	1:a:510:VAL:HG11	1.84	0.60
1:Z:76:ILE:HG12	1:Z:88:ARG:HD2	1.84	0.60
1:Z:542:LEU:O	1:4:422:LYS:NZ	2.33	0.60
1:i:78:ASN:OD1	1:i:86:SER:OG	2.18	0.60
1:i:495:ARG:O	1:i:496:ARG:NH1	2.34	0.60
1:q:134:GLN:NE2	1:y:153:ALA:HA	2.17	0.60
1:q:542:LEU:O	1:r:422:LYS:NZ	2.34	0.60
1:z:542:LEU:O	1:1:422:LYS:NZ	2.34	0.60
1:1:495:ARG:O	1:1:496:ARG:NH1	2.34	0.60
1:3:510:VAL:HG11	1:8:76:ILE:HD11	1.84	0.60
1:4:44:VAL:HG22	1:4:57:LYS:HD2	1.82	0.60
1:7:495:ARG:O	1:7:496:ARG:NH1	2.34	0.60
1:B:495:ARG:O	1:B:496:ARG:NH1	2.34	0.60
1:B:517:ASP:OD1	1:B:518:SER:N	2.30	0.60
1:E:495:ARG:O	1:E:496:ARG:NH1	2.34	0.60
1:F:134:GLN:NE2	1:G:153:ALA:HA	2.16	0.60
1:I:134:GLN:NE2	1:J:153:ALA:HA	2.17	0.60
1:J:270:ARG:HH22	1:L:416:GLU:HB3	1.66	0.60
1:J:542:LEU:O	1:L:422:LYS:NZ	2.34	0.60
1:K:76:ILE:HD11	1:7:510:VAL:HG11	1.84	0.60
1:L:517:ASP:OD1	1:L:518:SER:N	2.30	0.60
1:T:226:GLU:OE2	1:T:451:LYS:NZ	2.32	0.60
1:Y:510:VAL:HG11	1:4:76:ILE:HD11	1.84	0.60
1:b:76:ILE:HG12	1:b:88:ARG:HD2	1.84	0.60
1:c:270:ARG:HH22	1:o:416:GLU:HB3	1.67	0.60
1:c:416:GLU:HB3	1:p:270:ARG:HH22	1.66	0.60
1:f:76:ILE:HG12	1:f:88:ARG:HD2	1.84	0.60
1:f:542:LEU:O	1:h:422:LYS:NZ	2.34	0.60
1:p:134:GLN:NE2	1:q:153:ALA:HA	2.17	0.60
1:t:416:GLU:HB3	1:v:270:ARG:HH22	1.66	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:x:535:LYS:NZ	1:y:427:ASP:OD2	2.29	0.60
1:5:153:ALA:HA	1:8:134:GLN:NE2	2.16	0.60
1:A:270:ARG:HH22	1:G:416:GLU:HB3	1.66	0.60
1:C:153:ALA:HA	1:D:134:GLN:NE2	2.17	0.60
1:C:291:TYR:OH	1:b:313:THR:O	2.12	0.60
1:C:416:GLU:HB3	1:M:270:ARG:HH22	1.66	0.60
1:C:422:LYS:NZ	1:M:542:LEU:O	2.33	0.60
1:P:134:GLN:NE2	1:Q:153:ALA:HA	2.17	0.60
1:Q:134:GLN:NE2	1:S:153:ALA:HA	2.16	0.60
1:Q:172:TRP:H	1:Q:418:PRO:HG3	1.67	0.60
1:Q:226:GLU:OE2	1:Q:451:LYS:NZ	2.32	0.60
1:R:153:ALA:HA	1:V:134:GLN:NE2	2.17	0.60
1:R:313:THR:O	1:U:291:TYR:OH	2.12	0.60
1:b:495:ARG:O	1:b:496:ARG:NH1	2.34	0.60
1:c:422:LYS:NZ	1:p:542:LEU:O	2.34	0.60
1:f:291:TYR:OH	1:h:313:THR:O	2.12	0.60
1:g:76:ILE:HG12	1:g:88:ARG:HD2	1.84	0.60
1:g:76:ILE:HD11	1:k:510:VAL:HG11	1.84	0.60
1:h:510:VAL:HG11	1:i:76:ILE:HD11	1.84	0.60
1:m:226:GLU:OE2	1:m:451:LYS:NZ	2.32	0.60
1:m:270:ARG:HH22	1:n:416:GLU:HB3	1.66	0.60
1:o:270:ARG:HH22	1:p:416:GLU:HB3	1.66	0.60
1:o:517:ASP:OD1	1:o:518:SER:N	2.30	0.60
1:p:172:TRP:H	1:p:418:PRO:HG3	1.67	0.60
1:r:76:ILE:HG12	1:r:88:ARG:HD2	1.84	0.60
1:t:313:THR:O	1:v:291:TYR:OH	2.12	0.60
1:u:134:GLN:NE2	1:2:153:ALA:HA	2.17	0.60
1:u:153:ALA:HA	1:5:134:GLN:NE2	2.17	0.60
1:w:44:VAL:HG22	1:w:57:LYS:HD2	1.82	0.60
1:x:76:ILE:HG12	1:x:88:ARG:HD2	1.84	0.60
1:1:172:TRP:H	1:1:418:PRO:HG3	1.67	0.60
1:5:291:TYR:OH	1:6:313:THR:O	2.12	0.60
1:8:495:ARG:O	1:8:496:ARG:NH1	2.34	0.60
1:A:172:TRP:H	1:A:418:PRO:HG3	1.67	0.60
1:A:291:TYR:OH	1:G:313:THR:O	2.12	0.60
1:B:172:TRP:H	1:B:418:PRO:HG3	1.67	0.60
1:C:76:ILE:HG12	1:C:88:ARG:HD2	1.84	0.60
1:C:76:ILE:HD11	1:D:510:VAL:HG11	1.84	0.60
1:C:172:TRP:H	1:C:418:PRO:HG3	1.67	0.60
1:F:76:ILE:HD11	1:R:510:VAL:HG11	1.84	0.60
1:H:134:GLN:NE2	1:I:153:ALA:HA	2.17	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:495:ARG:O	1:J:496:ARG:NH1	2.34	0.60
1:O:270:ARG:HH22	1:m:416:GLU:HB3	1.66	0.60
1:Q:76:ILE:HG12	1:Q:88:ARG:HD2	1.84	0.60
1:S:76:ILE:HG12	1:S:88:ARG:HD2	1.84	0.60
1:U:510:VAL:HG11	1:e:76:ILE:HD11	1.84	0.60
1:V:172:TRP:H	1:V:418:PRO:HG3	1.67	0.60
1:V:416:GLU:HB3	1:X:270:ARG:HH22	1.66	0.60
1:W:136:LYS:HA	1:W:149:ASN:HA	1.84	0.60
1:Y:76:ILE:HG12	1:Y:88:ARG:HD2	1.84	0.60
1:Z:136:LYS:HA	1:Z:149:ASN:HA	1.84	0.60
1:Z:495:ARG:O	1:Z:496:ARG:NH1	2.34	0.60
1:f:136:LYS:HA	1:f:149:ASN:HA	1.84	0.60
1:f:495:ARG:O	1:f:496:ARG:NH1	2.34	0.60
1:g:153:ALA:HA	1:k:134:GLN:NE2	2.17	0.60
1:g:422:LYS:NZ	1:h:542:LEU:O	2.33	0.60
1:n:136:LYS:HA	1:n:149:ASN:HA	1.84	0.60
1:n:153:ALA:HA	1:r:134:GLN:NE2	2.17	0.60
1:v:172:TRP:H	1:v:418:PRO:HG3	1.67	0.60
1:w:495:ARG:O	1:w:496:ARG:NH1	2.34	0.60
1:x:172:TRP:H	1:x:418:PRO:HG3	1.67	0.60
1:6:136:LYS:HA	1:6:149:ASN:HA	1.84	0.60
1:8:136:LYS:HA	1:8:149:ASN:HA	1.84	0.60
1:C:136:LYS:HA	1:C:149:ASN:HA	1.84	0.59
1:F:76:ILE:HG12	1:F:88:ARG:HD2	1.84	0.59
1:F:172:TRP:H	1:F:418:PRO:HG3	1.67	0.59
1:M:510:VAL:HG11	1:N:76:ILE:HD11	1.84	0.59
1:P:76:ILE:HG12	1:P:88:ARG:HD2	1.84	0.59
1:R:172:TRP:H	1:R:418:PRO:HG3	1.67	0.59
1:S:517:ASP:OD1	1:S:518:SER:N	2.30	0.59
1:W:76:ILE:HG12	1:W:88:ARG:HD2	1.84	0.59
1:X:153:ALA:HA	1:f:134:GLN:NE2	2.16	0.59
1:g:136:LYS:HA	1:g:149:ASN:HA	1.84	0.59
1:g:172:TRP:H	1:g:418:PRO:HG3	1.67	0.59
1:g:416:GLU:HB3	1:h:270:ARG:HH22	1.66	0.59
1:j:134:GLN:NE2	1:x:153:ALA:HA	2.17	0.59
1:l:153:ALA:HA	1:n:134:GLN:NE2	2.16	0.59
1:q:172:TRP:H	1:q:418:PRO:HG3	1.67	0.59
1:r:153:ALA:HA	1:x:134:GLN:NE2	2.17	0.59
1:t:153:ALA:HA	1:y:134:GLN:NE2	2.16	0.59
1:7:76:ILE:HG12	1:7:88:ARG:HD2	1.84	0.59
1:7:136:LYS:HA	1:7:149:ASN:HA	1.84	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:427:ASP:OD2	1:Q:535:LYS:NZ	2.29	0.59
1:G:76:ILE:HG12	1:G:88:ARG:HD2	1.84	0.59
1:K:76:ILE:HG12	1:K:88:ARG:HD2	1.84	0.59
1:O:313:THR:O	1:n:291:TYR:OH	2.12	0.59
1:Q:510:VAL:HG11	1:S:76:ILE:HD11	1.84	0.59
1:V:270:ARG:HH22	1:e:416:GLU:HB3	1.67	0.59
1:V:542:LEU:O	1:e:422:LYS:NZ	2.34	0.59
1:Y:136:LYS:HA	1:Y:149:ASN:HA	1.84	0.59
1:b:136:LYS:HA	1:b:149:ASN:HA	1.84	0.59
1:c:226:GLU:OE2	1:c:451:LYS:NZ	2.32	0.59
1:d:136:LYS:HA	1:d:149:ASN:HA	1.84	0.59
1:d:495:ARG:O	1:d:496:ARG:NH1	2.34	0.59
1:e:226:GLU:OE2	1:e:451:LYS:NZ	2.32	0.59
1:l:76:ILE:HD11	1:n:510:VAL:HG11	1.84	0.59
1:m:76:ILE:HG12	1:m:88:ARG:HD2	1.84	0.59
1:n:495:ARG:O	1:n:496:ARG:NH1	2.34	0.59
1:p:495:ARG:O	1:p:496:ARG:NH1	2.34	0.59
1:q:510:VAL:HG11	1:y:76:ILE:HD11	1.84	0.59
1:r:76:ILE:HD11	1:x:510:VAL:HG11	1.84	0.59
1:r:172:TRP:H	1:r:418:PRO:HG3	1.67	0.59
1:t:76:ILE:HG12	1:t:88:ARG:HD2	1.84	0.59
1:v:226:GLU:OE2	1:v:451:LYS:NZ	2.32	0.59
1:x:226:GLU:OE2	1:x:451:LYS:NZ	2.32	0.59
1:y:76:ILE:HG12	1:y:88:ARG:HD2	1.84	0.59
1:y:172:TRP:H	1:y:418:PRO:HG3	1.67	0.59
1:z:76:ILE:HG12	1:z:88:ARG:HD2	1.84	0.59
1:2:495:ARG:O	1:2:496:ARG:NH1	2.34	0.59
1:A:226:GLU:OE2	1:A:451:LYS:NZ	2.32	0.59
1:G:510:VAL:HG11	1:W:76:ILE:HD11	1.84	0.59
1:I:76:ILE:HG12	1:I:88:ARG:HD2	1.84	0.59
1:L:76:ILE:HG12	1:L:88:ARG:HD2	1.84	0.59
1:N:270:ARG:HH22	1:P:416:GLU:HB3	1.66	0.59
1:T:76:ILE:HG12	1:T:88:ARG:HD2	1.84	0.59
1:V:495:ARG:O	1:V:496:ARG:NH1	2.34	0.59
1:X:517:ASP:OD1	1:X:518:SER:N	2.30	0.59
1:b:134:GLN:NE2	1:o:153:ALA:HA	2.16	0.59
1:c:76:ILE:HD11	1:s:510:VAL:HG11	1.85	0.59
1:j:76:ILE:HG12	1:j:88:ARG:HD2	1.84	0.59
1:p:76:ILE:HD11	1:6:510:VAL:HG11	1.84	0.59
1:r:517:ASP:OD1	1:r:518:SER:N	2.30	0.59
1:u:76:ILE:HG12	1:u:88:ARG:HD2	1.84	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:4:76:ILE:HG12	1:4:88:ARG:HD2	1.84	0.59
1:6:76:ILE:HG12	1:6:88:ARG:HD2	1.84	0.59
1:O:136:LYS:HA	1:O:149:ASN:HA	1.84	0.59
1:Q:495:ARG:O	1:Q:496:ARG:NH1	2.34	0.59
1:R:76:ILE:HG12	1:R:88:ARG:HD2	1.84	0.59
1:S:172:TRP:H	1:S:418:PRO:HG3	1.67	0.59
1:T:416:GLU:HB3	1:l:270:ARG:HH22	1.66	0.59
1:U:136:LYS:HA	1:U:149:ASN:HA	1.84	0.59
1:V:76:ILE:HD11	1:W:510:VAL:HG11	1.84	0.59
1:g:134:GLN:NE2	1:1:153:ALA:HA	2.17	0.59
1:l:136:LYS:HA	1:l:149:ASN:HA	1.84	0.59
1:s:136:LYS:HA	1:s:149:ASN:HA	1.84	0.59
1:t:510:VAL:HG11	1:6:76:ILE:HD11	1.84	0.59
1:B:76:ILE:HD11	1:C:510:VAL:HG11	1.84	0.59
1:B:153:ALA:HA	1:C:134:GLN:NE2	2.17	0.59
1:H:510:VAL:HG11	1:I:76:ILE:HD11	1.84	0.59
1:T:313:THR:O	1:l:291:TYR:OH	2.12	0.59
1:U:76:ILE:HG12	1:U:88:ARG:HD2	1.84	0.59
1:U:134:GLN:NE2	1:e:153:ALA:HA	2.18	0.59
1:X:313:THR:O	1:e:291:TYR:OH	2.10	0.59
1:Y:134:GLN:NE2	1:4:153:ALA:HA	2.17	0.59
1:c:44:VAL:HG22	1:c:57:LYS:HD2	1.82	0.59
1:o:510:VAL:HG11	1:7:76:ILE:HD11	1.84	0.59
1:q:76:ILE:HG12	1:q:88:ARG:HD2	1.84	0.59
1:q:136:LYS:HA	1:q:149:ASN:HA	1.84	0.59
1:s:76:ILE:HG12	1:s:88:ARG:HD2	1.84	0.59
1:1:136:LYS:HA	1:1:149:ASN:HA	1.84	0.59
1:2:44:VAL:HG22	1:2:57:LYS:HD2	1.82	0.59
1:B:136:LYS:HA	1:B:149:ASN:HA	1.84	0.59
1:B:416:GLU:HB3	1:L:270:ARG:HH22	1.66	0.59
1:D:76:ILE:HD11	1:E:510:VAL:HG11	1.84	0.59
1:D:136:LYS:HA	1:D:149:ASN:HA	1.84	0.59
1:G:495:ARG:O	1:G:496:ARG:NH1	2.34	0.59
1:H:136:LYS:HA	1:H:149:ASN:HA	1.84	0.59
1:J:44:VAL:HG22	1:J:57:LYS:HD2	1.82	0.59
1:J:517:ASP:OD1	1:J:518:SER:N	2.30	0.59
1:K:172:TRP:H	1:K:418:PRO:HG3	1.67	0.59
1:L:134:GLN:NE2	1:b:153:ALA:HA	2.17	0.59
1:N:172:TRP:H	1:N:418:PRO:HG3	1.67	0.59
1:O:416:GLU:HB3	1:n:270:ARG:HH22	1.66	0.59
1:R:136:LYS:HA	1:R:149:ASN:HA	1.84	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:U:495:ARG:O	1:U:496:ARG:NH1	2.34	0.59
1:X:172:TRP:H	1:X:418:PRO:HG3	1.67	0.59
1:X:510:VAL:HG11	1:Y:76:ILE:HD11	1.84	0.59
1:g:510:VAL:HG11	1:1:76:ILE:HD11	1.84	0.59
1:i:172:TRP:H	1:i:418:PRO:HG3	1.67	0.59
1:i:270:ARG:HH22	1:j:416:GLU:HB3	1.66	0.59
1:k:76:ILE:HD11	1:w:510:VAL:HG11	1.84	0.59
1:k:136:LYS:HA	1:k:149:ASN:HA	1.84	0.59
1:n:172:TRP:H	1:n:418:PRO:HG3	1.67	0.59
1:u:76:ILE:HD11	1:5:510:VAL:HG11	1.84	0.59
1:x:495:ARG:O	1:x:496:ARG:NH1	2.34	0.59
1:4:172:TRP:H	1:4:418:PRO:HG3	1.67	0.59
1:5:136:LYS:HA	1:5:149:ASN:HA	1.84	0.59
1:8:517:ASP:OD1	1:8:518:SER:N	2.30	0.59
1:E:270:ARG:HH22	1:Q:416:GLU:HB3	1.66	0.59
1:J:172:TRP:H	1:J:418:PRO:HG3	1.67	0.59
1:K:153:ALA:HA	1:7:134:GLN:NE2	2.17	0.59
1:S:134:GLN:NE2	1:d:153:ALA:HA	2.18	0.59
1:W:270:ARG:HH22	1:Y:416:GLU:HB3	1.66	0.59
1:Z:517:ASP:OD1	1:Z:518:SER:N	2.30	0.59
1:d:76:ILE:HG12	1:d:88:ARG:HD2	1.84	0.59
1:e:44:VAL:HG22	1:e:57:LYS:HD2	1.82	0.59
1:j:291:TYR:OH	1:k:313:THR:O	2.12	0.59
1:o:172:TRP:H	1:o:418:PRO:HG3	1.67	0.59
1:s:495:ARG:O	1:s:496:ARG:NH1	2.34	0.59
1:z:153:ALA:HA	1:4:134:GLN:NE2	2.17	0.59
1:E:172:TRP:H	1:E:418:PRO:HG3	1.67	0.59
1:H:76:ILE:HG12	1:H:88:ARG:HD2	1.84	0.59
1:b:226:GLU:OE2	1:b:451:LYS:NZ	2.32	0.59
1:d:172:TRP:H	1:d:418:PRO:HG3	1.67	0.59
1:f:153:ALA:HA	1:z:134:GLN:NE2	2.17	0.59
1:t:495:ARG:O	1:t:496:ARG:NH1	2.34	0.59
1:z:270:ARG:HH22	1:1:416:GLU:HB3	1.66	0.59
1:6:270:ARG:HH22	1:7:416:GLU:HB3	1.66	0.59
1:F:136:LYS:HA	1:F:149:ASN:HA	1.84	0.59
1:K:134:GLN:NE2	1:L:153:ALA:HA	2.17	0.59
1:L:172:TRP:H	1:L:418:PRO:HG3	1.67	0.59
1:M:76:ILE:HD11	1:c:510:VAL:HG11	1.84	0.59
1:M:136:LYS:HA	1:M:149:ASN:HA	1.84	0.59
1:O:510:VAL:HG11	1:P:76:ILE:HD11	1.84	0.59
1:P:510:VAL:HG11	1:Q:76:ILE:HD11	1.84	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:S:270:ARG:HH22	1:U:416:GLU:HB3	1.66	0.59
1:e:172:TRP:H	1:e:418:PRO:HG3	1.67	0.59
1:h:136:LYS:HA	1:h:149:ASN:HA	1.84	0.59
1:j:172:TRP:H	1:j:418:PRO:HG3	1.67	0.59
1:j:510:VAL:HG11	1:x:76:ILE:HD11	1.84	0.59
1:n:76:ILE:HG12	1:n:88:ARG:HD2	1.84	0.59
1:t:172:TRP:H	1:t:418:PRO:HG3	1.67	0.59
1:w:172:TRP:H	1:w:418:PRO:HG3	1.67	0.59
1:w:270:ARG:HH22	1:x:416:GLU:HB3	1.66	0.59
1:y:136:LYS:HA	1:y:149:ASN:HA	1.84	0.59
1:z:136:LYS:HA	1:z:149:ASN:HA	1.84	0.59
1:1:76:ILE:HG12	1:1:88:ARG:HD2	1.84	0.59
1:2:172:TRP:H	1:2:418:PRO:HG3	1.67	0.59
1:A:136:LYS:HA	1:A:149:ASN:HA	1.84	0.59
1:A:510:VAL:HG11	1:E:76:ILE:HD11	1.84	0.59
1:B:76:ILE:HG12	1:B:88:ARG:HD2	1.84	0.59
1:D:313:THR:O	1:P:291:TYR:OH	2.12	0.59
1:O:153:ALA:HA	1:d:134:GLN:HE22	1.67	0.59
1:O:222:PHE:HB2	1:d:515:HIS:ND1	2.18	0.59
1:P:172:TRP:H	1:P:418:PRO:HG3	1.67	0.59
1:Q:136:LYS:HA	1:Q:149:ASN:HA	1.84	0.59
1:X:76:ILE:HD11	1:f:510:VAL:HG11	1.84	0.59
1:X:136:LYS:HA	1:X:149:ASN:HA	1.84	0.59
1:X:342:ASP:HB3	1:e:294:PRO:HB3	1.85	0.59
1:b:510:VAL:HG11	1:o:76:ILE:HD11	1.84	0.59
1:e:495:ARG:O	1:e:496:ARG:NH1	2.34	0.59
1:p:136:LYS:HA	1:p:149:ASN:HA	1.84	0.59
1:5:76:ILE:HG12	1:5:88:ARG:HD2	1.84	0.59
1:7:172:TRP:H	1:7:418:PRO:HG3	1.67	0.59
1:G:172:TRP:H	1:G:418:PRO:HG3	1.67	0.58
1:K:136:LYS:HA	1:K:149:ASN:HA	1.84	0.58
1:L:136:LYS:HA	1:L:149:ASN:HA	1.84	0.58
1:O:291:TYR:OH	1:m:313:THR:O	2.12	0.58
1:V:136:LYS:HA	1:V:149:ASN:HA	1.84	0.58
1:Y:172:TRP:H	1:Y:418:PRO:HG3	1.67	0.58
1:Z:313:THR:O	1:3:291:TYR:OH	2.12	0.58
1:a:136:LYS:HA	1:a:149:ASN:HA	1.84	0.58
1:a:495:ARG:O	1:a:496:ARG:NH1	2.34	0.58
1:c:172:TRP:H	1:c:418:PRO:HG3	1.67	0.58
1:h:76:ILE:HG12	1:h:88:ARG:HD2	1.84	0.58
1:l:172:TRP:H	1:l:418:PRO:HG3	1.67	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:o:136:LYS:HA	1:o:149:ASN:HA	1.84	0.58
1:r:270:ARG:HH22	1:s:416:GLU:HB3	1.66	0.58
1:v:136:LYS:HA	1:v:149:ASN:HA	1.84	0.58
1:v:510:VAL:HG11	1:w:76:ILE:HD11	1.84	0.58
1:x:136:LYS:HA	1:x:149:ASN:HA	1.84	0.58
1:z:172:TRP:H	1:z:418:PRO:HG3	1.67	0.58
1:3:172:TRP:H	1:3:418:PRO:HG3	1.67	0.58
1:I:510:VAL:HG11	1:J:76:ILE:HD11	1.84	0.58
1:M:76:ILE:HG12	1:M:88:ARG:HD2	1.84	0.58
1:U:172:TRP:H	1:U:418:PRO:HG3	1.67	0.58
1:a:172:TRP:H	1:a:418:PRO:HG3	1.67	0.58
1:b:172:TRP:H	1:b:418:PRO:HG3	1.67	0.58
1:c:495:ARG:O	1:c:496:ARG:NH1	2.34	0.58
1:e:510:VAL:HG11	1:h:76:ILE:HD11	1.84	0.58
1:t:76:ILE:HD11	1:y:510:VAL:HG11	1.84	0.58
1:u:510:VAL:HG11	1:2:76:ILE:HD11	1.84	0.58
1:3:76:ILE:HG12	1:3:88:ARG:HD2	1.84	0.58
1:3:136:LYS:HA	1:3:149:ASN:HA	1.84	0.58
1:3:495:ARG:O	1:3:496:ARG:NH1	2.34	0.58
1:4:136:LYS:HA	1:4:149:ASN:HA	1.84	0.58
1:6:495:ARG:O	1:6:496:ARG:NH1	2.34	0.58
1:E:136:LYS:HA	1:E:149:ASN:HA	1.84	0.58
1:O:172:TRP:H	1:O:418:PRO:HG3	1.67	0.58
1:P:136:LYS:HA	1:P:149:ASN:HA	1.84	0.58
1:T:542:LEU:O	1:d:422:LYS:NZ	2.36	0.58
1:W:495:ARG:O	1:W:496:ARG:NH1	2.34	0.58
1:a:291:TYR:OH	1:8:313:THR:O	2.12	0.58
1:c:136:LYS:HA	1:c:149:ASN:HA	1.84	0.58
1:2:136:LYS:HA	1:2:149:ASN:HA	1.84	0.58
1:F:510:VAL:HG11	1:G:76:ILE:HD11	1.84	0.58
1:J:136:LYS:HA	1:J:149:ASN:HA	1.84	0.58
1:K:510:VAL:HG11	1:L:76:ILE:HD11	1.84	0.58
1:L:510:VAL:HG11	1:b:76:ILE:HD11	1.85	0.58
1:N:510:VAL:HG11	1:m:76:ILE:HD11	1.84	0.58
1:T:510:VAL:HG11	1:U:76:ILE:HD11	1.84	0.58
1:e:136:LYS:HA	1:e:149:ASN:HA	1.84	0.58
1:f:172:TRP:H	1:f:418:PRO:HG3	1.67	0.58
1:j:76:ILE:HD11	1:l:510:VAL:HG11	1.84	0.58
1:j:136:LYS:HA	1:j:149:ASN:HA	1.84	0.58
1:m:510:VAL:HG11	1:s:76:ILE:HD11	1.84	0.58
1:s:172:TRP:H	1:s:418:PRO:HG3	1.67	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:x:387:TYR:HB3	1:x:394:TYR:HB3	1.86	0.58
1:y:226:GLU:OE2	1:y:451:LYS:NZ	2.32	0.58
1:H:387:TYR:HB3	1:H:394:TYR:HB3	1.86	0.58
1:M:416:GLU:HB3	1:b:270:ARG:HH22	1.67	0.58
1:Q:387:TYR:HB3	1:Q:394:TYR:HB3	1.86	0.58
1:a:76:ILE:HG12	1:a:88:ARG:HD2	1.84	0.58
1:f:76:ILE:HD11	1:z:510:VAL:HG11	1.85	0.58
1:f:270:ARG:HH22	1:h:416:GLU:HB3	1.67	0.58
1:j:495:ARG:O	1:j:496:ARG:NH1	2.34	0.58
1:k:76:ILE:HG12	1:k:88:ARG:HD2	1.84	0.58
1:w:136:LYS:HA	1:w:149:ASN:HA	1.84	0.58
1:5:387:TYR:HB3	1:5:394:TYR:HB3	1.86	0.58
1:C:387:TYR:HB3	1:C:394:TYR:HB3	1.86	0.58
1:D:76:ILE:HG12	1:D:88:ARG:HD2	1.84	0.58
1:D:172:TRP:H	1:D:418:PRO:HG3	1.67	0.58
1:D:495:ARG:O	1:D:496:ARG:NH1	2.34	0.58
1:J:510:VAL:HG11	1:a:76:ILE:HD11	1.84	0.58
1:R:387:TYR:HB3	1:R:394:TYR:HB3	1.86	0.58
1:S:387:TYR:HB3	1:S:394:TYR:HB3	1.86	0.58
1:T:76:ILE:HD11	1:i:510:VAL:HG11	1.84	0.58
1:T:270:ARG:HH22	1:d:416:GLU:HB3	1.67	0.58
1:V:427:ASP:OD2	1:X:535:LYS:NZ	2.28	0.58
1:i:136:LYS:HA	1:i:149:ASN:HA	1.84	0.58
1:m:172:TRP:H	1:m:418:PRO:HG3	1.67	0.58
1:u:136:LYS:HA	1:u:149:ASN:HA	1.84	0.58
1:z:76:ILE:HD11	1:4:510:VAL:HG11	1.84	0.58
1:8:387:TYR:HB3	1:8:394:TYR:HB3	1.86	0.58
1:A:76:ILE:HD11	1:B:510:VAL:HG11	1.84	0.58
1:D:387:TYR:HB3	1:D:394:TYR:HB3	1.86	0.58
1:M:387:TYR:HB3	1:M:394:TYR:HB3	1.86	0.58
1:P:495:ARG:O	1:P:496:ARG:NH1	2.34	0.58
1:Q:517:ASP:OD1	1:Q:518:SER:N	2.30	0.58
1:S:226:GLU:OE2	1:S:451:LYS:NZ	2.32	0.58
1:T:172:TRP:H	1:T:418:PRO:HG3	1.67	0.58
1:Z:387:TYR:HB3	1:Z:394:TYR:HB3	1.86	0.58
1:g:387:TYR:HB3	1:g:394:TYR:HB3	1.86	0.58
1:k:387:TYR:HB3	1:k:394:TYR:HB3	1.86	0.58
1:n:76:ILE:HD11	1:r:510:VAL:HG11	1.84	0.58
1:q:387:TYR:HB3	1:q:394:TYR:HB3	1.86	0.58
1:r:136:LYS:HA	1:r:149:ASN:HA	1.84	0.58
1:t:387:TYR:HB3	1:t:394:TYR:HB3	1.86	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:u:270:ARG:HH22	1:v:416:GLU:HB3	1.66	0.58
1:z:387:TYR:HB3	1:z:394:TYR:HB3	1.86	0.58
1:5:172:TRP:H	1:5:418:PRO:HG3	1.67	0.58
1:G:387:TYR:HB3	1:G:394:TYR:HB3	1.86	0.58
1:H:172:TRP:H	1:H:418:PRO:HG3	1.67	0.58
1:I:136:LYS:HA	1:I:149:ASN:HA	1.84	0.58
1:W:172:TRP:H	1:W:418:PRO:HG3	1.67	0.58
1:k:172:TRP:H	1:k:418:PRO:HG3	1.67	0.58
1:q:495:ARG:O	1:q:496:ARG:NH1	2.34	0.58
1:r:226:GLU:OE2	1:r:451:LYS:NZ	2.32	0.58
1:r:387:TYR:HB3	1:r:394:TYR:HB3	1.86	0.58
1:v:76:ILE:HD11	1:1:510:VAL:HG11	1.84	0.58
1:2:510:VAL:HG11	1:3:76:ILE:HD11	1.84	0.58
1:A:416:GLU:HB3	1:I:270:ARG:HH22	1.66	0.58
1:L:387:TYR:HB3	1:L:394:TYR:HB3	1.86	0.58
1:N:136:LYS:HA	1:N:149:ASN:HA	1.84	0.58
1:R:222:PHE:HB2	1:V:515:HIS:ND1	2.19	0.58
1:S:136:LYS:HA	1:S:149:ASN:HA	1.84	0.58
1:S:510:VAL:HG11	1:d:76:ILE:HD11	1.85	0.58
1:T:136:LYS:HA	1:T:149:ASN:HA	1.84	0.58
1:X:76:ILE:HG12	1:X:88:ARG:HD2	1.84	0.58
1:X:495:ARG:O	1:X:496:ARG:NH1	2.34	0.58
1:Z:172:TRP:H	1:Z:418:PRO:HG3	1.67	0.58
1:e:515:HIS:ND1	1:h:222:PHE:HB2	2.19	0.58
1:h:387:TYR:HB3	1:h:394:TYR:HB3	1.86	0.58
1:k:495:ARG:O	1:k:496:ARG:NH1	2.34	0.58
1:p:515:HIS:ND1	1:q:222:PHE:HB2	2.19	0.58
1:6:172:TRP:H	1:6:418:PRO:HG3	1.67	0.58
1:M:172:TRP:H	1:M:418:PRO:HG3	1.67	0.58
1:M:222:PHE:HB2	1:c:515:HIS:ND1	2.19	0.58
1:O:495:ARG:O	1:O:496:ARG:NH1	2.34	0.58
1:R:495:ARG:O	1:R:496:ARG:NH1	2.34	0.58
1:T:294:PRO:HB3	1:d:342:ASP:HB3	1.86	0.58
1:l:222:PHE:HB2	1:n:515:HIS:ND1	2.19	0.58
1:l:495:ARG:O	1:l:496:ARG:NH1	2.34	0.58
1:m:136:LYS:HA	1:m:149:ASN:HA	1.84	0.58
1:o:495:ARG:O	1:o:496:ARG:NH1	2.34	0.58
1:C:294:PRO:HB3	1:b:342:ASP:HB3	1.86	0.57
1:D:222:PHE:HB2	1:E:515:HIS:ND1	2.19	0.57
1:H:515:HIS:ND1	1:I:222:PHE:HB2	2.19	0.57
1:S:495:ARG:O	1:S:496:ARG:NH1	2.34	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:V:222:PHE:HB2	1:W:515:HIS:ND1	2.19	0.57
1:n:222:PHE:HB2	1:r:515:HIS:ND1	2.19	0.57
1:o:76:ILE:HG12	1:o:88:ARG:HD2	1.84	0.57
1:u:222:PHE:HB2	1:5:515:HIS:ND1	2.19	0.57
1:x:517:ASP:OD1	1:x:518:SER:N	2.30	0.57
1:6:294:PRO:HB3	1:7:342:ASP:HB3	1.86	0.57
1:8:172:TRP:H	1:8:418:PRO:HG3	1.67	0.57
1:B:387:TYR:HB3	1:B:394:TYR:HB3	1.86	0.57
1:H:294:PRO:HB3	1:W:342:ASP:HB3	1.86	0.57
1:W:294:PRO:HB3	1:Y:342:ASP:HB3	1.86	0.57
1:f:342:ASP:HB3	1:g:294:PRO:HB3	1.86	0.57
1:k:222:PHE:HB2	1:w:515:HIS:ND1	2.19	0.57
1:p:222:PHE:HB2	1:6:515:HIS:ND1	2.19	0.57
1:u:172:TRP:H	1:u:418:PRO:HG3	1.67	0.57
1:v:495:ARG:O	1:v:496:ARG:NH1	2.34	0.57
1:A:495:ARG:O	1:A:496:ARG:NH1	2.34	0.57
1:B:342:ASP:HB3	1:L:294:PRO:HB3	1.87	0.57
1:O:515:HIS:ND1	1:P:222:PHE:HB2	2.19	0.57
1:R:342:ASP:HB3	1:U:294:PRO:HB3	1.87	0.57
1:b:387:TYR:HB3	1:b:394:TYR:HB3	1.86	0.57
1:f:387:TYR:HB3	1:f:394:TYR:HB3	1.86	0.57
1:h:172:TRP:H	1:h:418:PRO:HG3	1.67	0.57
1:j:515:HIS:ND1	1:x:222:PHE:HB2	2.19	0.57
1:o:515:HIS:ND1	1:7:222:PHE:HB2	2.19	0.57
1:q:342:ASP:HB3	1:s:294:PRO:HB3	1.87	0.57
1:w:387:TYR:HB3	1:w:394:TYR:HB3	1.86	0.57
1:z:294:PRO:HB3	1:1:342:ASP:HB3	1.87	0.57
1:5:294:PRO:HB3	1:6:342:ASP:HB3	1.86	0.57
1:E:387:TYR:HB3	1:E:394:TYR:HB3	1.86	0.57
1:F:342:ASP:HB3	1:Q:294:PRO:HB3	1.86	0.57
1:F:515:HIS:ND1	1:G:222:PHE:HB2	2.19	0.57
1:G:515:HIS:ND1	1:W:222:PHE:HB2	2.19	0.57
1:I:172:TRP:H	1:I:418:PRO:HG3	1.67	0.57
1:M:515:HIS:ND1	1:N:222:PHE:HB2	2.19	0.57
1:X:515:HIS:ND1	1:Y:222:PHE:HB2	2.19	0.57
1:c:387:TYR:HB3	1:c:394:TYR:HB3	1.86	0.57
1:e:387:TYR:HB3	1:e:394:TYR:HB3	1.86	0.57
1:g:222:PHE:HB2	1:k:515:HIS:ND1	2.19	0.57
1:r:495:ARG:O	1:r:496:ARG:NH1	2.34	0.57
1:t:136:LYS:HA	1:t:149:ASN:HA	1.84	0.57
1:t:222:PHE:HB2	1:y:515:HIS:ND1	2.19	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1:387:TYR:HB3	1:1:394:TYR:HB3	1.86	0.57
1:C:222:PHE:HB2	1:D:515:HIS:ND1	2.19	0.57
1:H:222:PHE:HB2	1:Z:515:HIS:ND1	2.19	0.57
1:P:515:HIS:ND1	1:Q:222:PHE:HB2	2.19	0.57
1:h:515:HIS:ND1	1:i:222:PHE:HB2	2.19	0.57
1:m:294:PRO:HB3	1:n:342:ASP:HB3	1.87	0.57
1:x:294:PRO:HB3	1:y:342:ASP:HB3	1.87	0.57
1:B:222:PHE:HB2	1:C:515:HIS:ND1	2.19	0.57
1:E:342:ASP:HB3	1:F:294:PRO:HB3	1.86	0.57
1:G:136:LYS:HA	1:G:149:ASN:HA	1.84	0.57
1:J:515:HIS:ND1	1:a:222:PHE:HB2	2.19	0.57
1:K:342:ASP:HB3	1:8:294:PRO:HB3	1.87	0.57
1:V:294:PRO:HB3	1:e:342:ASP:HB3	1.86	0.57
1:Z:294:PRO:HB3	1:4:342:ASP:HB3	1.87	0.57
1:d:270:ARG:HH22	1:l:416:GLU:HB3	1.68	0.57
1:g:515:HIS:ND1	1:1:222:PHE:HB2	2.19	0.57
1:t:294:PRO:HB3	1:u:342:ASP:HB3	1.86	0.57
1:t:515:HIS:ND1	1:6:222:PHE:HB2	2.19	0.57
1:v:222:PHE:HB2	1:1:515:HIS:ND1	2.20	0.57
1:2:515:HIS:ND1	1:3:222:PHE:HB2	2.19	0.57
1:7:387:TYR:HB3	1:7:394:TYR:HB3	1.86	0.57
1:A:222:PHE:HB2	1:B:515:HIS:ND1	2.20	0.57
1:C:342:ASP:HB3	1:M:294:PRO:HB3	1.86	0.57
1:G:294:PRO:HB3	1:I:342:ASP:HB3	1.86	0.57
1:L:515:HIS:ND1	1:b:222:PHE:HB2	2.20	0.57
1:N:294:PRO:HB3	1:P:342:ASP:HB3	1.87	0.57
1:O:342:ASP:HB3	1:n:294:PRO:HB3	1.87	0.57
1:T:387:TYR:HB3	1:T:394:TYR:HB3	1.86	0.57
1:U:387:TYR:HB3	1:U:394:TYR:HB3	1.86	0.57
1:Y:387:TYR:HB3	1:Y:394:TYR:HB3	1.86	0.57
1:f:222:PHE:HB2	1:z:515:HIS:ND1	2.20	0.57
1:g:342:ASP:HB3	1:h:294:PRO:HB3	1.87	0.57
1:i:294:PRO:HB3	1:j:342:ASP:HB3	1.87	0.57
1:j:222:PHE:HB2	1:l:515:HIS:ND1	2.19	0.57
1:s:387:TYR:HB3	1:s:394:TYR:HB3	1.86	0.57
1:5:222:PHE:HB2	1:8:515:HIS:ND1	2.19	0.57
1:F:313:THR:O	1:Q:291:TYR:OH	2.12	0.57
1:T:342:ASP:HB3	1:l:294:PRO:HB3	1.86	0.57
1:X:387:TYR:HB3	1:X:394:TYR:HB3	1.86	0.57
1:d:387:TYR:HB3	1:d:394:TYR:HB3	1.86	0.57
1:m:387:TYR:HB3	1:m:394:TYR:HB3	1.86	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:n:387:TYR:HB3	1:n:394:TYR:HB3	1.86	0.57
1:o:387:TYR:HB3	1:o:394:TYR:HB3	1.86	0.57
1:w:342:ASP:HB3	1:y:294:PRO:HB3	1.87	0.57
1:J:294:PRO:HB3	1:L:342:ASP:HB3	1.87	0.57
1:Z:222:PHE:HB2	1:a:515:HIS:ND1	2.19	0.57
1:d:291:TYR:OH	1:l:313:THR:O	2.14	0.57
1:e:149:ASN:ND2	1:h:150:ASP:OD1	2.38	0.57
1:j:517:ASP:OD1	1:j:518:SER:N	2.30	0.57
1:q:515:HIS:ND1	1:y:222:PHE:HB2	2.20	0.57
1:z:342:ASP:HB3	1:2:294:PRO:HB3	1.87	0.57
1:3:387:TYR:HB3	1:3:394:TYR:HB3	1.86	0.57
1:A:515:HIS:ND1	1:E:222:PHE:HB2	2.19	0.57
1:E:294:PRO:HB3	1:Q:342:ASP:HB3	1.86	0.57
1:K:222:PHE:HB2	1:7:515:HIS:ND1	2.19	0.57
1:K:515:HIS:ND1	1:L:222:PHE:HB2	2.20	0.57
1:O:294:PRO:HB3	1:m:342:ASP:HB3	1.87	0.57
1:a:387:TYR:HB3	1:a:394:TYR:HB3	1.86	0.57
1:c:294:PRO:HB3	1:o:342:ASP:HB3	1.87	0.57
1:c:342:ASP:HB3	1:p:294:PRO:HB3	1.86	0.57
1:w:294:PRO:HB3	1:x:342:ASP:HB3	1.86	0.57
1:x:291:TYR:OH	1:y:313:THR:O	2.12	0.57
1:3:515:HIS:ND1	1:8:222:PHE:HB2	2.19	0.57
1:O:387:TYR:HB3	1:O:394:TYR:HB3	1.86	0.56
1:T:222:PHE:HB2	1:i:515:HIS:ND1	2.19	0.56
1:l:387:TYR:HB3	1:l:394:TYR:HB3	1.86	0.56
1:r:222:PHE:HB2	1:x:515:HIS:ND1	2.19	0.56
1:z:222:PHE:HB2	1:4:515:HIS:ND1	2.20	0.56
1:A:294:PRO:HB3	1:G:342:ASP:HB3	1.87	0.56
1:D:342:ASP:HB3	1:P:294:PRO:HB3	1.86	0.56
1:F:222:PHE:HB2	1:R:515:HIS:ND1	2.20	0.56
1:F:387:TYR:HB3	1:F:394:TYR:HB3	1.86	0.56
1:N:515:HIS:ND1	1:m:222:PHE:HB2	2.19	0.56
1:N:535:LYS:NZ	1:P:427:ASP:OD2	2.28	0.56
1:P:387:TYR:HB3	1:P:394:TYR:HB3	1.86	0.56
1:Q:515:HIS:ND1	1:S:222:PHE:HB2	2.19	0.56
1:S:149:ASN:ND2	1:d:150:ASP:OD1	2.38	0.56
1:Y:515:HIS:ND1	1:4:222:PHE:HB2	2.19	0.56
1:c:222:PHE:HB2	1:s:515:HIS:ND1	2.20	0.56
1:m:515:HIS:ND1	1:s:222:PHE:HB2	2.20	0.56
1:u:387:TYR:HB3	1:u:394:TYR:HB3	1.86	0.56
1:1:294:PRO:HB3	1:2:342:ASP:HB3	1.87	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:294:PRO:HB3	1:J:342:ASP:HB3	1.87	0.56
1:I:387:TYR:HB3	1:I:394:TYR:HB3	1.86	0.56
1:I:515:HIS:ND1	1:J:222:PHE:HB2	2.19	0.56
1:J:387:TYR:HB3	1:J:394:TYR:HB3	1.86	0.56
1:K:387:TYR:HB3	1:K:394:TYR:HB3	1.86	0.56
1:M:342:ASP:HB3	1:b:294:PRO:HB3	1.87	0.56
1:N:387:TYR:HB3	1:N:394:TYR:HB3	1.86	0.56
1:O:150:ASP:OD1	1:d:149:ASN:ND2	2.38	0.56
1:P:517:ASP:OD1	1:P:518:SER:N	2.30	0.56
1:T:515:HIS:ND1	1:U:222:PHE:HB2	2.20	0.56
1:V:342:ASP:HB3	1:X:294:PRO:HB3	1.86	0.56
1:V:387:TYR:HB3	1:V:394:TYR:HB3	1.86	0.56
1:W:387:TYR:HB3	1:W:394:TYR:HB3	1.86	0.56
1:Z:342:ASP:HB3	1:3:294:PRO:HB3	1.87	0.56
1:a:294:PRO:HB3	1:8:342:ASP:HB3	1.87	0.56
1:b:515:HIS:ND1	1:o:222:PHE:HB2	2.19	0.56
1:c:291:TYR:OH	1:o:313:THR:O	2.12	0.56
1:d:517:ASP:OD1	1:d:518:SER:N	2.30	0.56
1:i:342:ASP:HB3	1:k:294:PRO:HB3	1.86	0.56
1:i:387:TYR:HB3	1:i:394:TYR:HB3	1.86	0.56
1:j:294:PRO:HB3	1:k:342:ASP:HB3	1.87	0.56
1:j:387:TYR:HB3	1:j:394:TYR:HB3	1.86	0.56
1:o:294:PRO:HB3	1:p:342:ASP:HB3	1.86	0.56
1:p:387:TYR:HB3	1:p:394:TYR:HB3	1.86	0.56
1:t:342:ASP:HB3	1:v:294:PRO:HB3	1.87	0.56
1:u:515:HIS:ND1	1:2:222:PHE:HB2	2.19	0.56
1:x:410:ARG:O	1:x:535:LYS:NZ	2.38	0.56
1:y:387:TYR:HB3	1:y:394:TYR:HB3	1.86	0.56
1:2:387:TYR:HB3	1:2:394:TYR:HB3	1.86	0.56
1:4:387:TYR:HB3	1:4:394:TYR:HB3	1.86	0.56
1:6:387:TYR:HB3	1:6:394:TYR:HB3	1.86	0.56
1:D:294:PRO:HB3	1:N:342:ASP:HB3	1.86	0.56
1:E:313:THR:O	1:F:291:TYR:OH	2.12	0.56
1:F:134:GLN:HE22	1:G:153:ALA:HA	1.70	0.56
1:H:535:LYS:NZ	1:W:427:ASP:OD2	2.28	0.56
1:O:134:GLN:HE22	1:P:153:ALA:HA	1.71	0.56
1:Q:410:ARG:O	1:Q:535:LYS:NZ	2.38	0.56
1:S:515:HIS:ND1	1:d:222:PHE:HB2	2.21	0.56
1:f:294:PRO:HB3	1:h:342:ASP:HB3	1.87	0.56
1:q:294:PRO:HB3	1:r:342:ASP:HB3	1.87	0.56
1:v:515:HIS:ND1	1:w:222:PHE:HB2	2.19	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:387:TYR:HB3	1:A:394:TYR:HB3	1.86	0.56
1:D:427:ASP:OD2	1:P:535:LYS:NZ	2.28	0.56
1:G:410:ARG:O	1:G:535:LYS:NZ	2.38	0.56
1:H:342:ASP:HB3	1:Y:294:PRO:HB3	1.87	0.56
1:R:294:PRO:HB3	1:S:342:ASP:HB3	1.87	0.56
1:U:515:HIS:ND1	1:e:222:PHE:HB2	2.20	0.56
1:X:222:PHE:HB2	1:f:515:HIS:ND1	2.19	0.56
1:o:134:GLN:HE22	1:7:153:ALA:HA	1.71	0.56
1:t:153:ALA:HA	1:y:134:GLN:HE22	1.70	0.56
1:C:153:ALA:HA	1:D:134:GLN:HE22	1.71	0.56
1:X:134:GLN:HE22	1:Y:153:ALA:HA	1.71	0.56
1:e:134:GLN:HE22	1:h:153:ALA:HA	1.70	0.56
1:g:153:ALA:HA	1:k:134:GLN:HE22	1.71	0.56
1:j:153:ALA:HA	1:l:134:GLN:HE22	1.71	0.56
1:w:313:THR:O	1:y:291:TYR:OH	2.12	0.56
1:5:342:ASP:HB3	1:7:294:PRO:HB3	1.87	0.56
1:V:153:ALA:HA	1:W:134:GLN:HE22	1.71	0.56
1:p:153:ALA:HA	1:6:134:GLN:HE22	1.71	0.56
1:p:410:ARG:O	1:p:535:LYS:NZ	2.38	0.56
1:t:134:GLN:HE22	1:6:153:ALA:HA	1.71	0.56
1:v:387:TYR:HB3	1:v:394:TYR:HB3	1.86	0.56
1:A:342:ASP:HB3	1:I:294:PRO:HB3	1.86	0.56
1:G:134:GLN:HE22	1:W:153:ALA:HA	1.71	0.56
1:K:294:PRO:HB3	1:a:342:ASP:HB3	1.87	0.56
1:l:153:ALA:HA	1:n:134:GLN:HE22	1.70	0.56
1:u:294:PRO:HB3	1:v:342:ASP:HB3	1.87	0.56
1:3:342:ASP:HB3	1:4:294:PRO:HB3	1.87	0.56
1:N:291:TYR:OH	1:P:313:THR:O	2.12	0.56
1:Q:134:GLN:HE22	1:S:153:ALA:HA	1.71	0.56
1:c:153:ALA:HA	1:s:134:GLN:HE22	1.71	0.56
1:i:291:TYR:OH	1:j:313:THR:O	2.12	0.56
1:K:134:GLN:HE22	1:L:153:ALA:HA	1.71	0.55
1:O:535:LYS:NZ	1:m:427:ASP:OD2	2.28	0.55
1:b:134:GLN:HE22	1:o:153:ALA:HA	1.71	0.55
1:c:410:ARG:O	1:c:535:LYS:NZ	2.38	0.55
1:r:153:ALA:HA	1:x:134:GLN:HE22	1.71	0.55
1:w:410:ARG:O	1:w:535:LYS:NZ	2.38	0.55
1:z:153:ALA:HA	1:4:134:GLN:HE22	1.71	0.55
1:A:134:GLN:HE22	1:E:153:ALA:HA	1.70	0.55
1:E:410:ARG:O	1:E:535:LYS:NZ	2.38	0.55
1:A:153:ALA:HA	1:B:134:GLN:HE22	1.71	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:R:153:ALA:HA	1:V:134:GLN:HE22	1.71	0.55
1:X:153:ALA:HA	1:f:134:GLN:HE22	1.71	0.55
1:e:410:ARG:O	1:e:535:LYS:NZ	2.38	0.55
1:p:134:GLN:HE22	1:q:153:ALA:HA	1.71	0.55
1:v:153:ALA:HA	1:1:134:GLN:HE22	1.71	0.55
1:2:134:GLN:HE22	1:3:153:ALA:HA	1.71	0.55
1:K:153:ALA:HA	1:7:134:GLN:HE22	1.71	0.55
1:M:149:ASN:ND2	1:N:150:ASP:OD1	2.40	0.55
1:O:410:ARG:O	1:O:535:LYS:NZ	2.38	0.55
1:X:354:GLU:HG2	1:e:274:TYR:O	2.06	0.55
1:Y:134:GLN:HE22	1:4:153:ALA:HA	1.71	0.55
1:h:149:ASN:ND2	1:i:150:ASP:OD1	2.40	0.55
1:v:134:GLN:HE22	1:w:153:ALA:HA	1.70	0.55
1:J:134:GLN:HE22	1:a:153:ALA:HA	1.71	0.55
1:L:134:GLN:HE22	1:b:153:ALA:HA	1.71	0.55
1:R:410:ARG:O	1:R:535:LYS:NZ	2.38	0.55
1:r:535:LYS:NZ	1:s:427:ASP:OD2	2.29	0.55
1:A:150:ASP:OD1	1:B:149:ASN:ND2	2.40	0.55
1:D:153:ALA:HA	1:E:134:GLN:HE22	1.71	0.55
1:H:410:ARG:O	1:H:535:LYS:NZ	2.38	0.55
1:M:153:ALA:HA	1:c:134:GLN:HE22	1.71	0.55
1:P:134:GLN:HE22	1:Q:153:ALA:HA	1.71	0.55
1:Z:150:ASP:OD1	1:a:149:ASN:ND2	2.40	0.55
1:f:153:ALA:HA	1:z:134:GLN:HE22	1.71	0.55
1:j:134:GLN:HE22	1:x:153:ALA:HA	1.71	0.55
1:k:153:ALA:HA	1:w:134:GLN:HE22	1.71	0.55
1:v:150:ASP:OD1	1:1:149:ASN:ND2	2.40	0.55
1:3:149:ASN:ND2	1:8:150:ASP:OD1	2.40	0.55
1:q:149:ASN:ND2	1:y:150:ASP:OD1	2.40	0.55
1:A:149:ASN:ND2	1:E:150:ASP:OD1	2.40	0.55
1:D:137:GLN:NE2	1:D:467:LEU:HD11	2.22	0.55
1:J:60:ARG:HG3	1:J:177:MET:HG3	1.89	0.55
1:R:137:GLN:NE2	1:R:467:LEU:HD11	2.22	0.55
1:d:137:GLN:NE2	1:d:467:LEU:HD11	2.22	0.55
1:k:137:GLN:NE2	1:k:467:LEU:HD11	2.22	0.55
1:l:150:ASP:OD1	1:n:149:ASN:ND2	2.40	0.55
1:n:137:GLN:NE2	1:n:467:LEU:HD11	2.22	0.55
1:p:149:ASN:ND2	1:q:150:ASP:OD1	2.40	0.55
1:q:137:GLN:NE2	1:q:467:LEU:HD11	2.22	0.55
1:q:410:ARG:O	1:q:535:LYS:NZ	2.38	0.55
1:v:149:ASN:ND2	1:w:150:ASP:OD1	2.40	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:2:60:ARG:HG3	1:2:177:MET:HG3	1.89	0.55
1:D:150:ASP:OD1	1:E:149:ASN:ND2	2.40	0.55
1:E:60:ARG:HG3	1:E:177:MET:HG3	1.89	0.55
1:M:134:GLN:HE22	1:N:153:ALA:HA	1.71	0.55
1:M:150:ASP:OD1	1:c:149:ASN:ND2	2.40	0.55
1:R:150:ASP:OD1	1:V:149:ASN:ND2	2.40	0.55
1:R:535:LYS:NZ	1:S:427:ASP:OD2	2.28	0.55
1:T:137:GLN:NE2	1:T:467:LEU:HD11	2.22	0.55
1:V:60:ARG:HG3	1:V:177:MET:HG3	1.89	0.55
1:a:60:ARG:HG3	1:a:177:MET:HG3	1.89	0.55
1:f:137:GLN:NE2	1:f:467:LEU:HD11	2.22	0.55
1:p:60:ARG:HG3	1:p:177:MET:HG3	1.89	0.55
1:q:535:LYS:NZ	1:r:427:ASP:OD2	2.28	0.55
1:w:60:ARG:HG3	1:w:177:MET:HG3	1.89	0.55
1:3:60:ARG:HG3	1:3:177:MET:HG3	1.89	0.55
1:5:410:ARG:O	1:5:535:LYS:NZ	2.38	0.55
1:6:137:GLN:NE2	1:6:467:LEU:HD11	2.22	0.55
1:B:150:ASP:OD1	1:C:149:ASN:ND2	2.40	0.55
1:F:150:ASP:OD1	1:R:149:ASN:ND2	2.40	0.55
1:J:149:ASN:ND2	1:a:150:ASP:OD1	2.40	0.55
1:N:137:GLN:NE2	1:N:467:LEU:HD11	2.22	0.55
1:P:137:GLN:NE2	1:P:467:LEU:HD11	2.22	0.55
1:Q:149:ASN:ND2	1:S:150:ASP:OD1	2.40	0.55
1:W:137:GLN:NE2	1:W:467:LEU:HD11	2.22	0.55
1:b:137:GLN:NE2	1:b:467:LEU:HD11	2.22	0.55
1:g:149:ASN:ND2	1:1:150:ASP:OD1	2.40	0.55
1:h:134:GLN:HE22	1:i:153:ALA:HA	1.71	0.55
1:i:137:GLN:NE2	1:i:467:LEU:HD11	2.22	0.55
1:j:137:GLN:NE2	1:j:467:LEU:HD11	2.22	0.55
1:k:150:ASP:OD1	1:w:149:ASN:ND2	2.40	0.55
1:r:150:ASP:OD1	1:x:149:ASN:ND2	2.40	0.55
1:r:294:PRO:HB3	1:s:342:ASP:HB3	1.87	0.55
1:F:324:LYS:HE3	1:F:330:ILE:HD12	1.90	0.54
1:G:149:ASN:ND2	1:W:150:ASP:OD1	2.40	0.54
1:I:60:ARG:HG3	1:I:177:MET:HG3	1.89	0.54
1:L:149:ASN:ND2	1:b:150:ASP:OD1	2.40	0.54
1:M:137:GLN:NE2	1:M:467:LEU:HD11	2.22	0.54
1:U:149:ASN:ND2	1:e:150:ASP:OD1	2.39	0.54
1:g:134:GLN:HE22	1:1:153:ALA:HA	1.71	0.54
1:j:60:ARG:HG3	1:j:177:MET:HG3	1.89	0.54
1:t:149:ASN:ND2	1:6:150:ASP:OD1	2.40	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:t:291:TYR:OH	1:u:313:THR:O	2.12	0.54
1:u:60:ARG:HG3	1:u:177:MET:HG3	1.89	0.54
1:w:324:LYS:HE3	1:w:330:ILE:HD12	1.89	0.54
1:y:324:LYS:HE3	1:y:330:ILE:HD12	1.90	0.54
1:2:149:ASN:ND2	1:3:150:ASP:OD1	2.40	0.54
1:7:137:GLN:NE2	1:7:467:LEU:HD11	2.22	0.54
1:B:153:ALA:HA	1:C:134:GLN:HE22	1.71	0.54
1:E:324:LYS:HE3	1:E:330:ILE:HD12	1.90	0.54
1:K:150:ASP:OD1	1:7:149:ASN:ND2	2.41	0.54
1:L:60:ARG:HG3	1:L:177:MET:HG3	1.89	0.54
1:P:60:ARG:HG3	1:P:177:MET:HG3	1.89	0.54
1:P:324:LYS:HE3	1:P:330:ILE:HD12	1.90	0.54
1:Q:324:LYS:HE3	1:Q:330:ILE:HD12	1.90	0.54
1:T:134:GLN:HE22	1:U:153:ALA:HA	1.71	0.54
1:V:291:TYR:OH	1:e:313:THR:O	2.11	0.54
1:Y:137:GLN:NE2	1:Y:467:LEU:HD11	2.22	0.54
1:Y:149:ASN:ND2	1:4:150:ASP:OD1	2.41	0.54
1:b:60:ARG:HG3	1:b:177:MET:HG3	1.89	0.54
1:c:313:THR:O	1:p:291:TYR:OH	2.12	0.54
1:d:294:PRO:HB3	1:l:342:ASP:HB3	1.89	0.54
1:f:150:ASP:OD1	1:z:149:ASN:ND2	2.40	0.54
1:g:136:LYS:HD3	1:g:149:ASN:HB3	1.90	0.54
1:g:150:ASP:OD1	1:k:149:ASN:ND2	2.40	0.54
1:h:137:GLN:NE2	1:h:467:LEU:HD11	2.22	0.54
1:m:137:GLN:NE2	1:m:467:LEU:HD11	2.22	0.54
1:t:137:GLN:NE2	1:t:467:LEU:HD11	2.22	0.54
1:u:324:LYS:HE3	1:u:330:ILE:HD12	1.90	0.54
1:x:324:LYS:HE3	1:x:330:ILE:HD12	1.90	0.54
1:z:60:ARG:HG3	1:z:177:MET:HG3	1.89	0.54
1:5:137:GLN:NE2	1:5:467:LEU:HD11	2.22	0.54
1:C:136:LYS:HD3	1:C:149:ASN:HB3	1.90	0.54
1:C:150:ASP:OD1	1:D:149:ASN:ND2	2.40	0.54
1:H:134:GLN:HE22	1:I:153:ALA:HA	1.71	0.54
1:H:137:GLN:NE2	1:H:467:LEU:HD11	2.22	0.54
1:I:324:LYS:HE3	1:I:330:ILE:HD12	1.90	0.54
1:S:294:PRO:HB3	1:U:342:ASP:HB3	1.87	0.54
1:T:153:ALA:HA	1:i:134:GLN:HE22	1.71	0.54
1:Z:60:ARG:HG3	1:Z:177:MET:HG3	1.89	0.54
1:b:149:ASN:ND2	1:o:150:ASP:OD1	2.40	0.54
1:f:60:ARG:HG3	1:f:177:MET:HG3	1.89	0.54
1:j:149:ASN:ND2	1:x:150:ASP:OD1	2.40	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:j:324:LYS:HE3	1:j:330:ILE:HD12	1.90	0.54
1:m:134:GLN:HE22	1:s:153:ALA:HA	1.71	0.54
1:n:150:ASP:OD1	1:r:149:ASN:ND2	2.40	0.54
1:o:137:GLN:NE2	1:o:467:LEU:HD11	2.22	0.54
1:r:137:GLN:NE2	1:r:467:LEU:HD11	2.22	0.54
1:8:60:ARG:HG3	1:8:177:MET:HG3	1.89	0.54
1:A:299:THR:HG23	1:A:384:GLN:HB3	1.90	0.54
1:B:136:LYS:HD3	1:B:149:ASN:HB3	1.90	0.54
1:C:163:HIS:HD2	1:C:443:HIS:CD2	2.26	0.54
1:F:299:THR:HG23	1:F:384:GLN:HB3	1.90	0.54
1:G:136:LYS:HD3	1:G:149:ASN:HB3	1.90	0.54
1:G:137:GLN:NE2	1:G:467:LEU:HD11	2.22	0.54
1:I:137:GLN:NE2	1:I:467:LEU:HD11	2.22	0.54
1:I:163:HIS:HD2	1:I:443:HIS:CD2	2.26	0.54
1:N:149:ASN:ND2	1:m:150:ASP:OD1	2.41	0.54
1:O:299:THR:HG23	1:O:384:GLN:HB3	1.90	0.54
1:P:149:ASN:ND2	1:Q:150:ASP:OD1	2.40	0.54
1:T:150:ASP:OD1	1:i:149:ASN:ND2	2.41	0.54
1:V:137:GLN:NE2	1:V:467:LEU:HD11	2.22	0.54
1:X:137:GLN:NE2	1:X:467:LEU:HD11	2.22	0.54
1:X:150:ASP:OD1	1:f:149:ASN:ND2	2.40	0.54
1:X:410:ARG:O	1:X:535:LYS:NZ	2.38	0.54
1:c:137:GLN:NE2	1:c:467:LEU:HD11	2.22	0.54
1:d:324:LYS:HE3	1:d:330:ILE:HD12	1.89	0.54
1:e:137:GLN:NE2	1:e:467:LEU:HD11	2.22	0.54
1:g:163:HIS:HD2	1:g:443:HIS:CD2	2.26	0.54
1:p:137:GLN:NE2	1:p:467:LEU:HD11	2.22	0.54
1:u:163:HIS:HD2	1:u:443:HIS:CD2	2.26	0.54
1:v:60:ARG:HG3	1:v:177:MET:HG3	1.89	0.54
1:x:163:HIS:HD2	1:x:443:HIS:CD2	2.26	0.54
1:1:136:LYS:HD3	1:1:149:ASN:HB3	1.90	0.54
1:A:137:GLN:NE2	1:A:467:LEU:HD11	2.22	0.54
1:B:137:GLN:NE2	1:B:467:LEU:HD11	2.22	0.54
1:C:60:ARG:HG3	1:C:177:MET:HG3	1.89	0.54
1:F:163:HIS:HD2	1:F:443:HIS:CD2	2.26	0.54
1:I:149:ASN:ND2	1:J:150:ASP:OD1	2.40	0.54
1:N:134:GLN:HE22	1:m:153:ALA:HA	1.71	0.54
1:Q:163:HIS:HD2	1:Q:443:HIS:CD2	2.26	0.54
1:S:137:GLN:NE2	1:S:467:LEU:HD11	2.22	0.54
1:U:137:GLN:NE2	1:U:467:LEU:HD11	2.22	0.54
1:U:324:LYS:HE3	1:U:330:ILE:HD12	1.90	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:V:274:TYR:O	1:e:354:GLU:HG2	2.08	0.54
1:X:149:ASN:ND2	1:Y:150:ASP:OD1	2.40	0.54
1:Y:299:THR:HG23	1:Y:384:GLN:HB3	1.90	0.54
1:n:324:LYS:HE3	1:n:330:ILE:HD12	1.90	0.54
1:o:410:ARG:O	1:o:535:LYS:NZ	2.38	0.54
1:q:60:ARG:HG3	1:q:177:MET:HG3	1.89	0.54
1:q:163:HIS:HD2	1:q:443:HIS:CD2	2.26	0.54
1:s:324:LYS:HE3	1:s:330:ILE:HD12	1.90	0.54
1:t:136:LYS:HD3	1:t:149:ASN:HB3	1.90	0.54
1:v:136:LYS:HD3	1:v:149:ASN:HB3	1.90	0.54
1:v:137:GLN:NE2	1:v:467:LEU:HD11	2.22	0.54
1:v:299:THR:HG23	1:v:384:GLN:HB3	1.90	0.54
1:w:299:THR:HG23	1:w:384:GLN:HB3	1.90	0.54
1:y:163:HIS:HD2	1:y:443:HIS:CD2	2.26	0.54
1:y:299:THR:HG23	1:y:384:GLN:HB3	1.90	0.54
1:1:137:GLN:NE2	1:1:467:LEU:HD11	2.22	0.54
1:1:324:LYS:HE3	1:1:330:ILE:HD12	1.90	0.54
1:4:299:THR:HG23	1:4:384:GLN:HB3	1.90	0.54
1:7:299:THR:HG23	1:7:384:GLN:HB3	1.90	0.54
1:A:60:ARG:HG3	1:A:177:MET:HG3	1.89	0.54
1:A:136:LYS:HD3	1:A:149:ASN:HB3	1.90	0.54
1:B:324:LYS:HE3	1:B:330:ILE:HD12	1.90	0.54
1:E:137:GLN:NE2	1:E:467:LEU:HD11	2.22	0.54
1:E:299:THR:HG23	1:E:384:GLN:HB3	1.90	0.54
1:F:137:GLN:NE2	1:F:467:LEU:HD11	2.22	0.54
1:F:149:ASN:ND2	1:G:150:ASP:OD1	2.40	0.54
1:H:150:ASP:OD1	1:Z:149:ASN:ND2	2.40	0.54
1:K:60:ARG:HG3	1:K:177:MET:HG3	1.89	0.54
1:K:299:THR:HG23	1:K:384:GLN:HB3	1.90	0.54
1:L:299:THR:HG23	1:L:384:GLN:HB3	1.90	0.54
1:O:136:LYS:HD3	1:O:149:ASN:HB3	1.90	0.54
1:O:324:LYS:HE3	1:O:330:ILE:HD12	1.89	0.54
1:R:60:ARG:HG3	1:R:177:MET:HG3	1.89	0.54
1:R:136:LYS:HD3	1:R:149:ASN:HB3	1.90	0.54
1:R:163:HIS:HD2	1:R:443:HIS:CD2	2.26	0.54
1:S:324:LYS:HE3	1:S:330:ILE:HD12	1.90	0.54
1:X:60:ARG:HG3	1:X:177:MET:HG3	1.89	0.54
1:X:299:THR:HG23	1:X:384:GLN:HB3	1.90	0.54
1:Z:136:LYS:HD3	1:Z:149:ASN:HB3	1.90	0.54
1:Z:137:GLN:NE2	1:Z:467:LEU:HD11	2.22	0.54
1:g:60:ARG:HG3	1:g:177:MET:HG3	1.89	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:h:163:HIS:HD2	1:h:443:HIS:CD2	2.26	0.54
1:o:149:ASN:ND2	1:7:150:ASP:OD1	2.40	0.54
1:o:299:THR:HG23	1:o:384:GLN:HB3	1.90	0.54
1:q:136:LYS:HD3	1:q:149:ASN:HB3	1.90	0.54
1:u:137:GLN:NE2	1:u:467:LEU:HD11	2.22	0.54
1:u:149:ASN:ND2	1:2:150:ASP:OD1	2.40	0.54
1:u:153:ALA:HA	1:5:134:GLN:HE22	1.71	0.54
1:u:306:GLY:O	1:u:355:TYR:OH	2.21	0.54
1:w:136:LYS:HD3	1:w:149:ASN:HB3	1.90	0.54
1:z:299:THR:HG23	1:z:384:GLN:HB3	1.90	0.54
1:3:324:LYS:HE3	1:3:330:ILE:HD12	1.90	0.54
1:5:153:ALA:HA	1:8:134:GLN:HE22	1.71	0.54
1:5:163:HIS:HD2	1:5:443:HIS:CD2	2.26	0.54
1:8:136:LYS:HD3	1:8:149:ASN:HB3	1.90	0.54
1:A:163:HIS:HD2	1:A:443:HIS:CD2	2.26	0.54
1:E:136:LYS:HD3	1:E:149:ASN:HB3	1.90	0.54
1:H:136:LYS:HD3	1:H:149:ASN:HB3	1.90	0.54
1:H:153:ALA:HA	1:Z:134:GLN:HE22	1.71	0.54
1:H:163:HIS:HD2	1:H:443:HIS:CD2	2.26	0.54
1:I:136:LYS:HD3	1:I:149:ASN:HB3	1.90	0.54
1:M:163:HIS:HD2	1:M:443:HIS:CD2	2.26	0.54
1:N:136:LYS:HD3	1:N:149:ASN:HB3	1.90	0.54
1:P:136:LYS:HD3	1:P:149:ASN:HB3	1.90	0.54
1:R:299:THR:HG23	1:R:384:GLN:HB3	1.90	0.54
1:R:324:LYS:HE3	1:R:330:ILE:HD12	1.90	0.54
1:S:60:ARG:HG3	1:S:177:MET:HG3	1.89	0.54
1:U:134:GLN:HE22	1:e:153:ALA:HA	1.73	0.54
1:W:163:HIS:HD2	1:W:443:HIS:CD2	2.26	0.54
1:a:324:LYS:HE3	1:a:330:ILE:HD12	1.90	0.54
1:b:163:HIS:HD2	1:b:443:HIS:CD2	2.26	0.54
1:c:150:ASP:OD1	1:s:149:ASN:ND2	2.40	0.54
1:f:163:HIS:HD2	1:f:443:HIS:CD2	2.26	0.54
1:i:324:LYS:HE3	1:i:330:ILE:HD12	1.90	0.54
1:j:136:LYS:HD3	1:j:149:ASN:HB3	1.90	0.54
1:l:136:LYS:HD3	1:l:149:ASN:HB3	1.90	0.54
1:l:137:GLN:NE2	1:l:467:LEU:HD11	2.22	0.54
1:l:163:HIS:HD2	1:l:443:HIS:CD2	2.26	0.54
1:l:299:THR:HG23	1:l:384:GLN:HB3	1.90	0.54
1:o:60:ARG:HG3	1:o:177:MET:HG3	1.89	0.54
1:q:134:GLN:HE22	1:y:153:ALA:HA	1.71	0.54
1:q:299:THR:HG23	1:q:384:GLN:HB3	1.90	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:q:324:LYS:HE3	1:q:330:ILE:HD12	1.90	0.54
1:r:60:ARG:HG3	1:r:177:MET:HG3	1.89	0.54
1:r:324:LYS:HE3	1:r:330:ILE:HD12	1.90	0.54
1:s:137:GLN:NE2	1:s:467:LEU:HD11	2.22	0.54
1:u:136:LYS:HD3	1:u:149:ASN:HB3	1.90	0.54
1:y:137:GLN:NE2	1:y:467:LEU:HD11	2.22	0.54
1:5:150:ASP:OD1	1:8:149:ASN:ND2	2.40	0.54
1:6:163:HIS:HD2	1:6:443:HIS:CD2	2.26	0.54
1:8:137:GLN:NE2	1:8:467:LEU:HD11	2.22	0.54
1:A:324:LYS:HE3	1:A:330:ILE:HD12	1.90	0.54
1:B:299:THR:HG23	1:B:384:GLN:HB3	1.90	0.54
1:C:137:GLN:NE2	1:C:467:LEU:HD11	2.22	0.54
1:G:60:ARG:HG3	1:G:177:MET:HG3	1.89	0.54
1:J:324:LYS:HE3	1:J:330:ILE:HD12	1.90	0.54
1:N:324:LYS:HE3	1:N:330:ILE:HD12	1.90	0.54
1:O:137:GLN:NE2	1:O:467:LEU:HD11	2.22	0.54
1:T:306:GLY:O	1:T:355:TYR:OH	2.21	0.54
1:U:136:LYS:HD3	1:U:149:ASN:HB3	1.90	0.54
1:V:299:THR:HG23	1:V:384:GLN:HB3	1.90	0.54
1:Z:163:HIS:HD2	1:Z:443:HIS:CD2	2.26	0.54
1:e:163:HIS:HD2	1:e:443:HIS:CD2	2.26	0.54
1:i:136:LYS:HD3	1:i:149:ASN:HB3	1.90	0.54
1:k:306:GLY:O	1:k:355:TYR:OH	2.21	0.54
1:m:306:GLY:O	1:m:355:TYR:OH	2.21	0.54
1:p:299:THR:HG23	1:p:384:GLN:HB3	1.90	0.54
1:s:136:LYS:HD3	1:s:149:ASN:HB3	1.90	0.54
1:v:163:HIS:HD2	1:v:443:HIS:CD2	2.26	0.54
1:v:324:LYS:HE3	1:v:330:ILE:HD12	1.90	0.54
1:w:137:GLN:NE2	1:w:467:LEU:HD11	2.22	0.54
1:1:299:THR:HG23	1:1:384:GLN:HB3	1.90	0.54
1:4:60:ARG:HG3	1:4:177:MET:HG3	1.89	0.54
1:5:136:LYS:HD3	1:5:149:ASN:HB3	1.90	0.54
1:D:299:THR:HG23	1:D:384:GLN:HB3	1.90	0.54
1:H:149:ASN:ND2	1:I:150:ASP:OD1	2.40	0.54
1:J:137:GLN:NE2	1:J:467:LEU:HD11	2.22	0.54
1:P:163:HIS:HD2	1:P:443:HIS:CD2	2.26	0.54
1:Q:299:THR:HG23	1:Q:384:GLN:HB3	1.90	0.54
1:T:149:ASN:ND2	1:U:150:ASP:OD1	2.40	0.54
1:U:163:HIS:HD2	1:U:443:HIS:CD2	2.26	0.54
1:W:324:LYS:HE3	1:W:330:ILE:HD12	1.90	0.54
1:X:163:HIS:HD2	1:X:443:HIS:CD2	2.26	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:a:163:HIS:HD2	1:a:443:HIS:CD2	2.26	0.54
1:b:136:LYS:HD3	1:b:149:ASN:HB3	1.90	0.54
1:c:163:HIS:HD2	1:c:443:HIS:CD2	2.26	0.54
1:g:137:GLN:NE2	1:g:467:LEU:HD11	2.22	0.54
1:j:163:HIS:HD2	1:j:443:HIS:CD2	2.26	0.54
1:j:299:THR:HG23	1:j:384:GLN:HB3	1.90	0.54
1:k:299:THR:HG23	1:k:384:GLN:HB3	1.90	0.54
1:l:324:LYS:HE3	1:l:330:ILE:HD12	1.90	0.54
1:t:60:ARG:HG3	1:t:177:MET:HG3	1.89	0.54
1:t:150:ASP:OD1	1:y:149:ASN:ND2	2.40	0.54
1:w:163:HIS:HD2	1:w:443:HIS:CD2	2.26	0.54
1:2:324:LYS:HE3	1:2:330:ILE:HD12	1.90	0.54
1:3:137:GLN:NE2	1:3:467:LEU:HD11	2.22	0.54
1:5:60:ARG:HG3	1:5:177:MET:HG3	1.89	0.54
1:8:163:HIS:HD2	1:8:443:HIS:CD2	2.26	0.54
1:E:163:HIS:HD2	1:E:443:HIS:CD2	2.26	0.54
1:F:153:ALA:HA	1:R:134:GLN:HE22	1.71	0.54
1:K:136:LYS:HD3	1:K:149:ASN:HB3	1.90	0.54
1:K:137:GLN:NE2	1:K:467:LEU:HD11	2.22	0.54
1:L:137:GLN:NE2	1:L:467:LEU:HD11	2.22	0.54
1:O:60:ARG:HG3	1:O:177:MET:HG3	1.89	0.54
1:O:163:HIS:HD2	1:O:443:HIS:CD2	2.26	0.54
1:T:274:TYR:O	1:d:354:GLU:HG2	2.07	0.54
1:V:150:ASP:OD1	1:W:149:ASN:ND2	2.40	0.54
1:W:535:LYS:NZ	1:Y:427:ASP:OD2	2.28	0.54
1:a:137:GLN:NE2	1:a:467:LEU:HD11	2.22	0.54
1:c:354:GLU:HG2	1:p:274:TYR:O	2.08	0.54
1:d:60:ARG:HG3	1:d:177:MET:HG3	1.89	0.54
1:f:136:LYS:HD3	1:f:149:ASN:HB3	1.90	0.54
1:h:136:LYS:HD3	1:h:149:ASN:HB3	1.90	0.54
1:j:150:ASP:OD1	1:l:149:ASN:ND2	2.40	0.54
1:n:153:ALA:HA	1:r:134:GLN:HE22	1.71	0.54
1:o:163:HIS:HD2	1:o:443:HIS:CD2	2.26	0.54
1:p:150:ASP:OD1	1:6:149:ASN:ND2	2.40	0.54
1:s:163:HIS:HD2	1:s:443:HIS:CD2	2.26	0.54
1:t:410:ARG:O	1:t:535:LYS:NZ	2.38	0.54
1:u:150:ASP:OD1	1:5:149:ASN:ND2	2.40	0.54
1:x:299:THR:HG23	1:x:384:GLN:HB3	1.90	0.54
1:2:306:GLY:O	1:2:355:TYR:OH	2.21	0.54
1:3:163:HIS:HD2	1:3:443:HIS:CD2	2.26	0.54
1:4:137:GLN:NE2	1:4:467:LEU:HD11	2.22	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:4:163:HIS:HD2	1:4:443:HIS:CD2	2.26	0.54
1:6:324:LYS:HE3	1:6:330:ILE:HD12	1.90	0.54
1:D:354:GLU:HG2	1:P:274:TYR:O	2.09	0.53
1:H:60:ARG:HG3	1:H:177:MET:HG3	1.89	0.53
1:I:299:THR:HG23	1:I:384:GLN:HB3	1.90	0.53
1:K:163:HIS:HD2	1:K:443:HIS:CD2	2.26	0.53
1:M:136:LYS:HD3	1:M:149:ASN:HB3	1.90	0.53
1:O:149:ASN:ND2	1:P:150:ASP:OD1	2.40	0.53
1:P:299:THR:HG23	1:P:384:GLN:HB3	1.90	0.53
1:Q:137:GLN:NE2	1:Q:467:LEU:HD11	2.22	0.53
1:b:324:LYS:HE3	1:b:330:ILE:HD12	1.90	0.53
1:e:136:LYS:HD3	1:e:149:ASN:HB3	1.90	0.53
1:k:163:HIS:HD2	1:k:443:HIS:CD2	2.26	0.53
1:l:60:ARG:HG3	1:l:177:MET:HG3	1.89	0.53
1:n:60:ARG:HG3	1:n:177:MET:HG3	1.89	0.53
1:u:535:LYS:NZ	1:v:427:ASP:OD2	2.29	0.53
1:x:136:LYS:HD3	1:x:149:ASN:HB3	1.90	0.53
1:z:150:ASP:OD1	1:4:149:ASN:ND2	2.40	0.53
1:2:137:GLN:NE2	1:2:467:LEU:HD11	2.22	0.53
1:4:136:LYS:HD3	1:4:149:ASN:HB3	1.90	0.53
1:D:163:HIS:HD2	1:D:443:HIS:CD2	2.26	0.53
1:T:136:LYS:HD3	1:T:149:ASN:HB3	1.90	0.53
1:Y:60:ARG:HG3	1:Y:177:MET:HG3	1.89	0.53
1:a:497:HIS:CD2	1:a:537:ASN:HD21	2.27	0.53
1:c:60:ARG:HG3	1:c:177:MET:HG3	1.89	0.53
1:e:60:ARG:HG3	1:e:177:MET:HG3	1.89	0.53
1:f:299:THR:HG23	1:f:384:GLN:HB3	1.90	0.53
1:f:324:LYS:HE3	1:f:330:ILE:HD12	1.90	0.53
1:i:60:ARG:HG3	1:i:177:MET:HG3	1.89	0.53
1:k:497:HIS:CD2	1:k:537:ASN:HD21	2.27	0.53
1:m:149:ASN:ND2	1:s:150:ASP:OD1	2.40	0.53
1:u:299:THR:HG23	1:u:384:GLN:HB3	1.90	0.53
1:x:137:GLN:NE2	1:x:467:LEU:HD11	2.22	0.53
1:z:137:GLN:NE2	1:z:467:LEU:HD11	2.22	0.53
1:3:497:HIS:CD2	1:3:537:ASN:HD21	2.27	0.53
1:7:60:ARG:HG3	1:7:177:MET:HG3	1.89	0.53
1:D:324:LYS:HE3	1:D:330:ILE:HD12	1.90	0.53
1:D:497:HIS:CD2	1:D:537:ASN:HD21	2.27	0.53
1:G:324:LYS:HE3	1:G:330:ILE:HD12	1.89	0.53
1:J:497:HIS:CD2	1:J:537:ASN:HD21	2.27	0.53
1:K:149:ASN:ND2	1:L:150:ASP:OD1	2.40	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:274:TYR:O	1:a:354:GLU:HG2	2.09	0.53
1:N:60:ARG:HG3	1:N:177:MET:HG3	1.89	0.53
1:Q:136:LYS:HD3	1:Q:149:ASN:HB3	1.90	0.53
1:Y:163:HIS:HD2	1:Y:443:HIS:CD2	2.26	0.53
1:c:136:LYS:HD3	1:c:149:ASN:HB3	1.90	0.53
1:d:497:HIS:CD2	1:d:537:ASN:HD21	2.27	0.53
1:i:163:HIS:HD2	1:i:443:HIS:CD2	2.26	0.53
1:j:274:TYR:O	1:k:354:GLU:HG2	2.09	0.53
1:m:136:LYS:HD3	1:m:149:ASN:HB3	1.90	0.53
1:n:163:HIS:HD2	1:n:443:HIS:CD2	2.26	0.53
1:p:163:HIS:HD2	1:p:443:HIS:CD2	2.26	0.53
1:z:163:HIS:HD2	1:z:443:HIS:CD2	2.26	0.53
1:2:497:HIS:CD2	1:2:537:ASN:HD21	2.27	0.53
1:4:324:LYS:HE3	1:4:330:ILE:HD12	1.89	0.53
1:5:354:GLU:HG2	1:7:274:TYR:O	2.09	0.53
1:7:163:HIS:HD2	1:7:443:HIS:CD2	2.26	0.53
1:A:427:ASP:OD2	1:I:535:LYS:NZ	2.29	0.53
1:A:497:HIS:CD2	1:A:537:ASN:HD21	2.27	0.53
1:C:299:THR:HG23	1:C:384:GLN:HB3	1.90	0.53
1:C:354:GLU:HG2	1:M:274:TYR:O	2.09	0.53
1:D:60:ARG:HG3	1:D:177:MET:HG3	1.89	0.53
1:H:354:GLU:HG2	1:Y:274:TYR:O	2.09	0.53
1:H:497:HIS:CD2	1:H:537:ASN:HD21	2.27	0.53
1:K:324:LYS:HE3	1:K:330:ILE:HD12	1.89	0.53
1:L:163:HIS:HD2	1:L:443:HIS:CD2	2.26	0.53
1:M:497:HIS:CD2	1:M:537:ASN:HD21	2.27	0.53
1:S:136:LYS:HD3	1:S:149:ASN:HB3	1.90	0.53
1:U:299:THR:HG23	1:U:384:GLN:HB3	1.90	0.53
1:V:136:LYS:HD3	1:V:149:ASN:HB3	1.90	0.53
1:V:163:HIS:HD2	1:V:443:HIS:CD2	2.26	0.53
1:Z:153:ALA:HA	1:a:134:GLN:HE22	1.70	0.53
1:b:299:THR:HG23	1:b:384:GLN:HB3	1.90	0.53
1:d:163:HIS:HD2	1:d:443:HIS:CD2	2.26	0.53
1:g:299:THR:HG23	1:g:384:GLN:HB3	1.90	0.53
1:k:60:ARG:HG3	1:k:177:MET:HG3	1.89	0.53
1:k:324:LYS:HE3	1:k:330:ILE:HD12	1.90	0.53
1:n:497:HIS:CD2	1:n:537:ASN:HD21	2.27	0.53
1:r:136:LYS:HD3	1:r:149:ASN:HB3	1.90	0.53
1:s:299:THR:HG23	1:s:384:GLN:HB3	1.90	0.53
1:t:324:LYS:HE3	1:t:330:ILE:HD12	1.89	0.53
1:u:497:HIS:CD2	1:u:537:ASN:HD21	2.27	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:z:324:LYS:HE3	1:z:330:ILE:HD12	1.90	0.53
1:3:134:GLN:HE22	1:8:153:ALA:HA	1.70	0.53
1:3:354:GLU:HG2	1:4:274:TYR:O	2.09	0.53
1:5:497:HIS:CD2	1:5:537:ASN:HD21	2.27	0.53
1:8:299:THR:HG23	1:8:384:GLN:HB3	1.90	0.53
1:D:274:TYR:O	1:N:354:GLU:HG2	2.09	0.53
1:G:497:HIS:CD2	1:G:537:ASN:HD21	2.27	0.53
1:I:497:HIS:CD2	1:I:537:ASN:HD21	2.27	0.53
1:L:324:LYS:HE3	1:L:330:ILE:HD12	1.90	0.53
1:N:163:HIS:HD2	1:N:443:HIS:CD2	2.26	0.53
1:N:299:THR:HG23	1:N:384:GLN:HB3	1.90	0.53
1:O:274:TYR:O	1:m:354:GLU:HG2	2.09	0.53
1:P:361:GLN:HE22	1:P:416:GLU:HG2	1.74	0.53
1:T:299:THR:HG23	1:T:384:GLN:HB3	1.90	0.53
1:T:354:GLU:HG2	1:l:274:TYR:O	2.09	0.53
1:X:136:LYS:HD3	1:X:149:ASN:HB3	1.90	0.53
1:Z:299:THR:HG23	1:Z:384:GLN:HB3	1.90	0.53
1:g:354:GLU:HG2	1:h:274:TYR:O	2.09	0.53
1:h:497:HIS:CD2	1:h:537:ASN:HD21	2.27	0.53
1:i:299:THR:HG23	1:i:384:GLN:HB3	1.90	0.53
1:j:361:GLN:HE22	1:j:416:GLU:HG2	1.74	0.53
1:o:136:LYS:HD3	1:o:149:ASN:HB3	1.90	0.53
1:p:136:LYS:HD3	1:p:149:ASN:HB3	1.90	0.53
1:t:497:HIS:CD2	1:t:537:ASN:HD21	2.27	0.53
1:v:497:HIS:CD2	1:v:537:ASN:HD21	2.27	0.53
1:x:60:ARG:HG3	1:x:177:MET:HG3	1.89	0.53
1:6:535:LYS:NZ	1:7:427:ASP:OD2	2.28	0.53
1:A:354:GLU:HG2	1:I:274:TYR:O	2.09	0.53
1:M:299:THR:HG23	1:M:384:GLN:HB3	1.90	0.53
1:N:361:GLN:HE22	1:N:416:GLU:HG2	1.74	0.53
1:O:354:GLU:HG2	1:n:274:TYR:O	2.09	0.53
1:Q:60:ARG:HG3	1:Q:177:MET:HG3	1.89	0.53
1:Z:354:GLU:HG2	1:3:274:TYR:O	2.09	0.53
1:a:274:TYR:O	1:8:354:GLU:HG2	2.09	0.53
1:i:354:GLU:HG2	1:k:274:TYR:O	2.09	0.53
1:i:361:GLN:HE22	1:i:416:GLU:HG2	1.74	0.53
1:l:361:GLN:HE22	1:l:416:GLU:HG2	1.74	0.53
1:m:299:THR:HG23	1:m:384:GLN:HB3	1.90	0.53
1:q:354:GLU:HG2	1:s:274:TYR:O	2.09	0.53
1:r:410:ARG:O	1:r:535:LYS:NZ	2.38	0.53
1:1:163:HIS:HD2	1:1:443:HIS:CD2	2.26	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:6:274:TYR:O	1:7:354:GLU:HG2	2.09	0.53
1:B:163:HIS:HD2	1:B:443:HIS:CD2	2.26	0.53
1:E:354:GLU:HG2	1:F:274:TYR:O	2.09	0.53
1:I:134:GLN:HE22	1:J:153:ALA:HA	1.71	0.53
1:L:497:HIS:CD2	1:L:537:ASN:HD21	2.27	0.53
1:O:361:GLN:HE22	1:O:416:GLU:HG2	1.74	0.53
1:P:497:HIS:CD2	1:P:537:ASN:HD21	2.27	0.53
1:R:354:GLU:HG2	1:U:274:TYR:O	2.09	0.53
1:U:60:ARG:HG3	1:U:177:MET:HG3	1.89	0.53
1:V:324:LYS:HE3	1:V:330:ILE:HD12	1.89	0.53
1:W:60:ARG:HG3	1:W:177:MET:HG3	1.89	0.53
1:a:136:LYS:HD3	1:a:149:ASN:HB3	1.90	0.53
1:j:497:HIS:CD2	1:j:537:ASN:HD21	2.27	0.53
1:p:324:LYS:HE3	1:p:330:ILE:HD12	1.90	0.53
1:r:163:HIS:HD2	1:r:443:HIS:CD2	2.26	0.53
1:t:299:THR:HG23	1:t:384:GLN:HB3	1.90	0.53
1:u:274:TYR:O	1:v:354:GLU:HG2	2.09	0.53
1:u:361:GLN:HE22	1:u:416:GLU:HG2	1.74	0.53
1:y:60:ARG:HG3	1:y:177:MET:HG3	1.89	0.53
1:z:497:HIS:CD2	1:z:537:ASN:HD21	2.27	0.53
1:1:497:HIS:CD2	1:1:537:ASN:HD21	2.27	0.53
1:6:60:ARG:HG3	1:6:177:MET:HG3	1.89	0.53
1:B:497:HIS:CD2	1:B:537:ASN:HD21	2.27	0.53
1:D:136:LYS:HD3	1:D:149:ASN:HB3	1.90	0.53
1:F:60:ARG:HG3	1:F:177:MET:HG3	1.89	0.53
1:G:274:TYR:O	1:I:354:GLU:HG2	2.09	0.53
1:G:299:THR:HG23	1:G:384:GLN:HB3	1.90	0.53
1:I:361:GLN:HE22	1:I:416:GLU:HG2	1.74	0.53
1:J:299:THR:HG23	1:J:384:GLN:HB3	1.90	0.53
1:L:361:GLN:HE22	1:L:416:GLU:HG2	1.74	0.53
1:N:410:ARG:O	1:N:535:LYS:NZ	2.38	0.53
1:S:163:HIS:HD2	1:S:443:HIS:CD2	2.26	0.53
1:S:410:ARG:O	1:S:535:LYS:NZ	2.38	0.53
1:W:274:TYR:O	1:Y:354:GLU:HG2	2.09	0.53
1:Y:136:LYS:HD3	1:Y:149:ASN:HB3	1.90	0.53
1:c:497:HIS:CD2	1:c:537:ASN:HD21	2.27	0.53
1:d:361:GLN:HE22	1:d:416:GLU:HG2	1.74	0.53
1:h:299:THR:HG23	1:h:384:GLN:HB3	1.90	0.53
1:s:60:ARG:HG3	1:s:177:MET:HG3	1.89	0.53
1:t:274:TYR:O	1:u:354:GLU:HG2	2.09	0.53
1:w:354:GLU:HG2	1:y:274:TYR:O	2.09	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:x:274:TYR:O	1:y:354:GLU:HG2	2.09	0.53
1:2:163:HIS:HD2	1:2:443:HIS:CD2	2.26	0.53
1:2:299:THR:HG23	1:2:384:GLN:HB3	1.90	0.53
1:3:299:THR:HG23	1:3:384:GLN:HB3	1.90	0.53
1:E:274:TYR:O	1:Q:354:GLU:HG2	2.09	0.53
1:F:354:GLU:HG2	1:Q:274:TYR:O	2.09	0.53
1:G:163:HIS:HD2	1:G:443:HIS:CD2	2.26	0.53
1:H:324:LYS:HE3	1:H:330:ILE:HD12	1.90	0.53
1:J:163:HIS:HD2	1:J:443:HIS:CD2	2.26	0.53
1:M:324:LYS:HE3	1:M:330:ILE:HD12	1.90	0.53
1:N:497:HIS:CD2	1:N:537:ASN:HD21	2.27	0.53
1:W:361:GLN:HE22	1:W:416:GLU:HG2	1.74	0.53
1:Y:497:HIS:CD2	1:Y:537:ASN:HD21	2.27	0.53
1:a:299:THR:HG23	1:a:384:GLN:HB3	1.90	0.53
1:e:497:HIS:CD2	1:e:537:ASN:HD21	2.27	0.53
1:i:497:HIS:CD2	1:i:537:ASN:HD21	2.27	0.53
1:r:361:GLN:HE22	1:r:416:GLU:HG2	1.74	0.53
1:u:134:GLN:HE22	1:2:153:ALA:HA	1.71	0.53
1:w:274:TYR:O	1:x:354:GLU:HG2	2.09	0.53
1:z:361:GLN:HE22	1:z:416:GLU:HG2	1.74	0.53
1:3:136:LYS:HD3	1:3:149:ASN:HB3	1.90	0.53
1:5:324:LYS:HE3	1:5:330:ILE:HD12	1.90	0.53
1:6:361:GLN:HE22	1:6:416:GLU:HG2	1.74	0.53
1:8:497:HIS:CD2	1:8:537:ASN:HD21	2.27	0.53
1:A:361:GLN:HE22	1:A:416:GLU:HG2	1.74	0.53
1:A:512:PRO:HB2	1:F:492:ARG:CZ	2.39	0.53
1:F:361:GLN:HE22	1:F:416:GLU:HG2	1.74	0.53
1:G:535:LYS:NZ	1:I:427:ASP:OD2	2.28	0.53
1:M:60:ARG:HG3	1:M:177:MET:HG3	1.89	0.53
1:S:361:GLN:HE22	1:S:416:GLU:HG2	1.74	0.53
1:T:163:HIS:HD2	1:T:443:HIS:CD2	2.26	0.53
1:T:410:ARG:O	1:T:535:LYS:NZ	2.38	0.53
1:X:324:LYS:HE3	1:X:330:ILE:HD12	1.90	0.53
1:Z:324:LYS:HE3	1:Z:330:ILE:HD12	1.90	0.53
1:Z:497:HIS:CD2	1:Z:537:ASN:HD21	2.27	0.53
1:c:361:GLN:HE22	1:c:416:GLU:HG2	1.74	0.53
1:e:361:GLN:HE22	1:e:416:GLU:HG2	1.74	0.53
1:h:324:LYS:HE3	1:h:330:ILE:HD12	1.90	0.53
1:k:136:LYS:HD3	1:k:149:ASN:HB3	1.90	0.53
1:m:535:LYS:NZ	1:n:427:ASP:OD2	2.28	0.53
1:n:299:THR:HG23	1:n:384:GLN:HB3	1.90	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:n:361:GLN:HE22	1:n:416:GLU:HG2	1.74	0.53
1:y:136:LYS:HD3	1:y:149:ASN:HB3	1.90	0.53
1:y:361:GLN:HE22	1:y:416:GLU:HG2	1.74	0.53
1:z:274:TYR:O	1:1:354:GLU:HG2	2.09	0.53
1:1:361:GLN:HE22	1:1:416:GLU:HG2	1.74	0.53
1:2:361:GLN:HE22	1:2:416:GLU:HG2	1.74	0.53
1:7:136:LYS:HD3	1:7:149:ASN:HB3	1.90	0.53
1:7:497:HIS:CD2	1:7:537:ASN:HD21	2.27	0.53
1:A:274:TYR:O	1:G:354:GLU:HG2	2.09	0.52
1:B:361:GLN:HE22	1:B:416:GLU:HG2	1.74	0.52
1:C:274:TYR:O	1:b:354:GLU:HG2	2.08	0.52
1:C:497:HIS:CD2	1:C:537:ASN:HD21	2.27	0.52
1:H:274:TYR:O	1:W:354:GLU:HG2	2.09	0.52
1:J:361:GLN:HE22	1:J:416:GLU:HG2	1.74	0.52
1:Q:497:HIS:CD2	1:Q:537:ASN:HD21	2.27	0.52
1:S:299:THR:HG23	1:S:384:GLN:HB3	1.90	0.52
1:V:354:GLU:HG2	1:X:274:TYR:O	2.09	0.52
1:V:361:GLN:HE22	1:V:416:GLU:HG2	1.74	0.52
1:c:274:TYR:O	1:o:354:GLU:HG2	2.09	0.52
1:f:497:HIS:CD2	1:f:537:ASN:HD21	2.27	0.52
1:h:60:ARG:HG3	1:h:177:MET:HG3	1.89	0.52
1:o:324:LYS:HE3	1:o:330:ILE:HD12	1.90	0.52
1:r:274:TYR:O	1:s:354:GLU:HG2	2.09	0.52
1:r:299:THR:HG23	1:r:384:GLN:HB3	1.90	0.52
1:s:410:ARG:O	1:s:535:LYS:NZ	2.38	0.52
1:t:163:HIS:HD2	1:t:443:HIS:CD2	2.26	0.52
1:v:361:GLN:HE22	1:v:416:GLU:HG2	1.74	0.52
1:1:60:ARG:HG3	1:1:177:MET:HG3	1.89	0.52
1:8:324:LYS:HE3	1:8:330:ILE:HD12	1.90	0.52
1:B:60:ARG:HG3	1:B:177:MET:HG3	1.89	0.52
1:B:274:TYR:O	1:J:354:GLU:HG2	2.09	0.52
1:B:354:GLU:HG2	1:L:274:TYR:O	2.09	0.52
1:F:136:LYS:HD3	1:F:149:ASN:HB3	1.90	0.52
1:F:497:HIS:CD2	1:F:537:ASN:HD21	2.27	0.52
1:G:361:GLN:HE22	1:G:416:GLU:HG2	1.74	0.52
1:L:136:LYS:HD3	1:L:149:ASN:HB3	1.90	0.52
1:S:274:TYR:O	1:U:354:GLU:HG2	2.09	0.52
1:b:497:HIS:CD2	1:b:537:ASN:HD21	2.27	0.52
1:d:299:THR:HG23	1:d:384:GLN:HB3	1.90	0.52
1:g:324:LYS:HE3	1:g:330:ILE:HD12	1.90	0.52
1:g:497:HIS:CD2	1:g:537:ASN:HD21	2.27	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:m:163:HIS:HD2	1:m:443:HIS:CD2	2.26	0.52
1:m:410:ARG:O	1:m:535:LYS:NZ	2.38	0.52
1:q:497:HIS:CD2	1:q:537:ASN:HD21	2.27	0.52
1:t:354:GLU:HG2	1:v:274:TYR:O	2.09	0.52
1:z:136:LYS:HD3	1:z:149:ASN:HB3	1.90	0.52
1:C:324:LYS:HE3	1:C:330:ILE:HD12	1.90	0.52
1:R:497:HIS:CD2	1:R:537:ASN:HD21	2.27	0.52
1:T:60:ARG:HG3	1:T:177:MET:HG3	1.89	0.52
1:f:354:GLU:HG2	1:g:274:TYR:O	2.08	0.52
1:o:274:TYR:O	1:p:354:GLU:HG2	2.09	0.52
1:p:361:GLN:HE22	1:p:416:GLU:HG2	1.74	0.52
1:p:512:PRO:HB2	1:s:492:ARG:CZ	2.40	0.52
1:t:361:GLN:HE22	1:t:416:GLU:HG2	1.74	0.52
1:x:497:HIS:CD2	1:x:537:ASN:HD21	2.27	0.52
1:4:497:HIS:CD2	1:4:537:ASN:HD21	2.27	0.52
1:5:274:TYR:O	1:6:354:GLU:HG2	2.09	0.52
1:5:361:GLN:HE22	1:5:416:GLU:HG2	1.74	0.52
1:6:136:LYS:HD3	1:6:149:ASN:HB3	1.90	0.52
1:E:497:HIS:CD2	1:E:537:ASN:HD21	2.27	0.52
1:H:361:GLN:HE22	1:H:416:GLU:HG2	1.74	0.52
1:K:497:HIS:CD2	1:K:537:ASN:HD21	2.27	0.52
1:U:492:ARG:CZ	1:V:512:PRO:HB2	2.40	0.52
1:X:497:HIS:CD2	1:X:537:ASN:HD21	2.27	0.52
1:m:60:ARG:HG3	1:m:177:MET:HG3	1.89	0.52
1:w:497:HIS:CD2	1:w:537:ASN:HD21	2.27	0.52
1:y:497:HIS:CD2	1:y:537:ASN:HD21	2.27	0.52
1:1:274:TYR:O	1:2:354:GLU:HG2	2.09	0.52
1:J:136:LYS:HD3	1:J:149:ASN:HB3	1.90	0.52
1:N:274:TYR:O	1:P:354:GLU:HG2	2.09	0.52
1:S:497:HIS:CD2	1:S:537:ASN:HD21	2.27	0.52
1:T:324:LYS:HE3	1:T:330:ILE:HD12	1.90	0.52
1:U:497:HIS:CD2	1:U:537:ASN:HD21	2.27	0.52
1:W:136:LYS:HD3	1:W:149:ASN:HB3	1.90	0.52
1:Z:361:GLN:HE22	1:Z:416:GLU:HG2	1.74	0.52
1:c:127:LEU:HD21	1:c:129:LYS:HE3	1.92	0.52
1:c:324:LYS:HE3	1:c:330:ILE:HD12	1.90	0.52
1:d:512:PRO:HB2	1:n:492:ARG:CZ	2.39	0.52
1:e:324:LYS:HE3	1:e:330:ILE:HD12	1.90	0.52
1:m:274:TYR:O	1:n:354:GLU:HG2	2.09	0.52
1:n:136:LYS:HD3	1:n:149:ASN:HB3	1.90	0.52
1:o:492:ARG:CZ	1:6:512:PRO:HB2	2.40	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:o:497:HIS:CD2	1:o:537:ASN:HD21	2.27	0.52
1:t:535:LYS:NZ	1:u:427:ASP:OD2	2.28	0.52
1:u:410:ARG:O	1:u:535:LYS:NZ	2.38	0.52
1:x:361:GLN:HE22	1:x:416:GLU:HG2	1.74	0.52
1:5:299:THR:HG23	1:5:384:GLN:HB3	1.90	0.52
1:7:361:GLN:HE22	1:7:416:GLU:HG2	1.74	0.52
1:8:361:GLN:HE22	1:8:416:GLU:HG2	1.74	0.52
1:K:127:LEU:HD21	1:K:129:LYS:HE3	1.92	0.52
1:W:512:PRO:HB2	1:X:492:ARG:CZ	2.40	0.52
1:Y:361:GLN:HE22	1:Y:416:GLU:HG2	1.74	0.52
1:b:127:LEU:HD21	1:b:129:LYS:HE3	1.92	0.52
1:b:361:GLN:HE22	1:b:416:GLU:HG2	1.74	0.52
1:d:136:LYS:HD3	1:d:149:ASN:HB3	1.90	0.52
1:e:127:LEU:HD21	1:e:129:LYS:HE3	1.92	0.52
1:m:324:LYS:HE3	1:m:330:ILE:HD12	1.89	0.52
1:m:492:ARG:CZ	1:r:512:PRO:HB2	2.40	0.52
1:m:512:PRO:HB2	1:r:492:ARG:CZ	2.40	0.52
1:s:497:HIS:CD2	1:s:537:ASN:HD21	2.27	0.52
1:v:512:PRO:HB2	1:y:492:ARG:CZ	2.40	0.52
1:w:127:LEU:HD21	1:w:129:LYS:HE3	1.92	0.52
1:6:497:HIS:CD2	1:6:537:ASN:HD21	2.27	0.52
1:7:324:LYS:HE3	1:7:330:ILE:HD12	1.90	0.52
1:E:127:LEU:HD21	1:E:129:LYS:HE3	1.92	0.52
1:E:492:ARG:CZ	1:P:512:PRO:HB2	2.40	0.52
1:H:299:THR:HG23	1:H:384:GLN:HB3	1.90	0.52
1:K:361:GLN:HE22	1:K:416:GLU:HG2	1.74	0.52
1:Q:361:GLN:HE22	1:Q:416:GLU:HG2	1.74	0.52
1:R:127:LEU:HD21	1:R:129:LYS:HE3	1.92	0.52
1:S:492:ARG:CZ	1:T:512:PRO:HB2	2.40	0.52
1:S:512:PRO:HB2	1:T:492:ARG:CZ	2.40	0.52
1:W:497:HIS:CD2	1:W:537:ASN:HD21	2.27	0.52
1:e:512:PRO:HB2	1:f:492:ARG:CZ	2.40	0.52
1:i:274:TYR:O	1:j:354:GLU:HG2	2.09	0.52
1:i:512:PRO:HB2	1:l:492:ARG:CZ	2.40	0.52
1:j:512:PRO:HB2	1:w:492:ARG:CZ	2.40	0.52
1:k:361:GLN:HE22	1:k:416:GLU:HG2	1.74	0.52
1:q:127:LEU:HD21	1:q:129:LYS:HE3	1.92	0.52
1:r:497:HIS:CD2	1:r:537:ASN:HD21	2.27	0.52
1:2:136:LYS:HD3	1:2:149:ASN:HB3	1.90	0.52
1:4:127:LEU:HD21	1:4:129:LYS:HE3	1.92	0.52
1:4:361:GLN:HE22	1:4:416:GLU:HG2	1.74	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:410:ARG:O	1:B:535:LYS:NZ	2.38	0.52
1:B:512:PRO:HB2	1:I:492:ARG:CZ	2.40	0.52
1:C:361:GLN:HE22	1:C:416:GLU:HG2	1.74	0.52
1:C:410:ARG:O	1:C:535:LYS:NZ	2.38	0.52
1:D:361:GLN:HE22	1:D:416:GLU:HG2	1.74	0.52
1:D:492:ARG:CZ	1:M:512:PRO:HB2	2.40	0.52
1:E:361:GLN:HE22	1:E:416:GLU:HG2	1.74	0.52
1:I:410:ARG:O	1:I:535:LYS:NZ	2.38	0.52
1:K:410:ARG:O	1:K:535:LYS:NZ	2.38	0.52
1:T:497:HIS:CD2	1:T:537:ASN:HD21	2.27	0.52
1:V:410:ARG:O	1:V:535:LYS:NZ	2.38	0.52
1:Y:324:LYS:HE3	1:Y:330:ILE:HD12	1.90	0.52
1:e:492:ARG:CZ	1:f:512:PRO:HB2	2.39	0.52
1:f:127:LEU:HD21	1:f:129:LYS:HE3	1.92	0.52
1:f:361:GLN:HE22	1:f:416:GLU:HG2	1.74	0.52
1:g:410:ARG:O	1:g:535:LYS:NZ	2.38	0.52
1:l:497:HIS:CD2	1:l:537:ASN:HD21	2.27	0.52
1:m:497:HIS:CD2	1:m:537:ASN:HD21	2.27	0.52
1:p:497:HIS:CD2	1:p:537:ASN:HD21	2.27	0.52
1:u:492:ARG:CZ	1:1:512:PRO:HB2	2.40	0.52
1:6:299:THR:HG23	1:6:384:GLN:HB3	1.90	0.52
1:A:127:LEU:HD21	1:A:129:LYS:HE3	1.92	0.52
1:R:274:TYR:O	1:S:354:GLU:HG2	2.09	0.52
1:R:361:GLN:HE22	1:R:416:GLU:HG2	1.74	0.52
1:V:127:LEU:HD21	1:V:129:LYS:HE3	1.92	0.52
1:V:497:HIS:CD2	1:V:537:ASN:HD21	2.27	0.52
1:X:361:GLN:HE22	1:X:416:GLU:HG2	1.74	0.52
1:Y:492:ARG:CZ	1:Z:512:PRO:HB2	2.40	0.52
1:a:512:PRO:HB2	1:3:492:ARG:CZ	2.40	0.52
1:f:274:TYR:O	1:h:354:GLU:HG2	2.09	0.52
1:g:361:GLN:HE22	1:g:416:GLU:HG2	1.74	0.52
1:o:361:GLN:HE22	1:o:416:GLU:HG2	1.74	0.52
1:p:127:LEU:HD21	1:p:129:LYS:HE3	1.92	0.52
1:q:274:TYR:O	1:r:354:GLU:HG2	2.09	0.52
1:q:361:GLN:HE22	1:q:416:GLU:HG2	1.74	0.52
1:w:361:GLN:HE22	1:w:416:GLU:HG2	1.74	0.52
1:2:127:LEU:HD21	1:2:129:LYS:HE3	1.92	0.52
1:7:492:ARG:CZ	1:8:512:PRO:HB2	2.40	0.52
1:J:127:LEU:HD21	1:J:129:LYS:HE3	1.92	0.52
1:J:512:PRO:HB2	1:K:492:ARG:CZ	2.40	0.52
1:M:354:GLU:HG2	1:b:274:TYR:O	2.09	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:O:497:HIS:CD2	1:O:537:ASN:HD21	2.27	0.52
1:Q:512:PRO:HB2	1:R:492:ARG:CZ	2.40	0.52
1:W:299:THR:HG23	1:W:384:GLN:HB3	1.90	0.52
1:X:127:LEU:HD21	1:X:129:LYS:HE3	1.92	0.52
1:a:492:ARG:CZ	1:3:512:PRO:HB2	2.40	0.52
1:b:492:ARG:CZ	1:c:512:PRO:HB2	2.40	0.52
1:e:299:THR:HG23	1:e:384:GLN:HB3	1.90	0.52
1:h:512:PRO:HB2	1:k:492:ARG:CZ	2.40	0.52
1:v:127:LEU:HD21	1:v:129:LYS:HE3	1.92	0.52
1:4:410:ARG:O	1:4:535:LYS:NZ	2.38	0.52
1:M:361:GLN:HE22	1:M:416:GLU:HG2	1.74	0.51
1:N:512:PRO:HB2	1:O:492:ARG:CZ	2.40	0.51
1:S:504:ILE:HD13	1:d:202:LEU:HD21	1.92	0.51
1:U:504:ILE:HD13	1:e:202:LEU:HD21	1.92	0.51
1:a:361:GLN:HE22	1:a:416:GLU:HG2	1.74	0.51
1:o:127:LEU:HD21	1:o:129:LYS:HE3	1.92	0.51
1:q:492:ARG:CZ	1:x:512:PRO:HB2	2.40	0.51
1:1:410:ARG:O	1:1:535:LYS:NZ	2.38	0.51
1:2:512:PRO:HB2	1:4:492:ARG:CZ	2.40	0.51
1:C:512:PRO:HB2	1:L:492:ARG:CZ	2.40	0.51
1:N:492:ARG:CZ	1:O:512:PRO:HB2	2.40	0.51
1:c:299:THR:HG23	1:c:384:GLN:HB3	1.90	0.51
1:d:127:LEU:HD21	1:d:129:LYS:HE3	1.92	0.51
1:d:274:TYR:O	1:l:354:GLU:HG2	2.10	0.51
1:g:512:PRO:HB2	1:z:492:ARG:CZ	2.40	0.51
1:n:127:LEU:HD21	1:n:129:LYS:HE3	1.92	0.51
1:u:512:PRO:HB2	1:1:492:ARG:CZ	2.40	0.51
1:v:492:ARG:CZ	1:y:512:PRO:HB2	2.40	0.51
1:z:127:LEU:HD21	1:z:129:LYS:HE3	1.92	0.51
1:3:361:GLN:HE22	1:3:416:GLU:HG2	1.74	0.51
1:5:127:LEU:HD21	1:5:129:LYS:HE3	1.92	0.51
1:B:492:ARG:CZ	1:I:512:PRO:HB2	2.40	0.51
1:H:127:LEU:HD21	1:H:129:LYS:HE3	1.92	0.51
1:K:354:GLU:HG2	1:8:274:TYR:O	2.09	0.51
1:L:127:LEU:HD21	1:L:129:LYS:HE3	1.92	0.51
1:h:361:GLN:HE22	1:h:416:GLU:HG2	1.74	0.51
1:i:410:ARG:O	1:i:535:LYS:NZ	2.38	0.51
1:m:361:GLN:HE22	1:m:416:GLU:HG2	1.74	0.51
1:q:427:ASP:OD2	1:s:535:LYS:NZ	2.28	0.51
1:z:354:GLU:HG2	1:2:274:TYR:O	2.09	0.51
1:A:492:ARG:CZ	1:F:512:PRO:HB2	2.40	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Z:274:TYR:O	1:4:354:GLU:HG2	2.09	0.51
1:b:512:PRO:HB2	1:c:492:ARG:CZ	2.40	0.51
1:2:492:ARG:CZ	1:4:512:PRO:HB2	2.40	0.51
1:D:512:PRO:HB2	1:M:492:ARG:CZ	2.40	0.51
1:J:274:TYR:O	1:L:354:GLU:HG2	2.09	0.51
1:M:202:LEU:HD21	1:c:504:ILE:HD13	1.93	0.51
1:U:361:GLN:HE22	1:U:416:GLU:HG2	1.74	0.51
1:Z:127:LEU:HD21	1:Z:129:LYS:HE3	1.92	0.51
1:i:492:ARG:CZ	1:l:512:PRO:HB2	2.40	0.51
1:t:512:PRO:HB2	1:5:492:ARG:CZ	2.40	0.51
1:z:202:LEU:HD21	1:4:504:ILE:HD13	1.92	0.51
1:A:202:LEU:HD21	1:B:504:ILE:HD13	1.93	0.51
1:F:504:ILE:HD13	1:G:202:LEU:HD21	1.93	0.51
1:G:512:PRO:HB2	1:H:492:ARG:CZ	2.40	0.51
1:J:492:ARG:CZ	1:K:512:PRO:HB2	2.40	0.51
1:K:202:LEU:HD21	1:7:504:ILE:HD13	1.93	0.51
1:K:504:ILE:HD13	1:L:202:LEU:HD21	1.92	0.51
1:N:127:LEU:HD21	1:N:129:LYS:HE3	1.92	0.51
1:P:127:LEU:HD21	1:P:129:LYS:HE3	1.92	0.51
1:U:375:ASN:HB2	1:U:376:PRO:HD2	1.93	0.51
1:Y:504:ILE:HD13	1:4:202:LEU:HD21	1.93	0.51
1:a:375:ASN:HB2	1:a:376:PRO:HD2	1.93	0.51
1:e:410:ARG:NH2	1:e:434:PRO:HD2	2.26	0.51
1:h:492:ARG:CZ	1:k:512:PRO:HB2	2.40	0.51
1:j:127:LEU:HD21	1:j:129:LYS:HE3	1.92	0.51
1:j:202:LEU:HD21	1:l:504:ILE:HD13	1.93	0.51
1:j:492:ARG:CZ	1:w:512:PRO:HB2	2.40	0.51
1:k:128:VAL:HG21	1:k:448:ILE:HD11	1.93	0.51
1:s:361:GLN:HE22	1:s:416:GLU:HG2	1.74	0.51
1:s:375:ASN:HB2	1:s:376:PRO:HD2	1.93	0.51
1:3:375:ASN:HB2	1:3:376:PRO:HD2	1.93	0.51
1:B:375:ASN:HB2	1:B:376:PRO:HD2	1.93	0.51
1:C:128:VAL:HG21	1:C:448:ILE:HD11	1.93	0.51
1:C:492:ARG:CZ	1:L:512:PRO:HB2	2.41	0.51
1:D:128:VAL:HG21	1:D:448:ILE:HD11	1.93	0.51
1:E:512:PRO:HB2	1:P:492:ARG:CZ	2.40	0.51
1:J:504:ILE:HD13	1:a:202:LEU:HD21	1.93	0.51
1:N:410:ARG:NH2	1:N:434:PRO:HD2	2.26	0.51
1:N:504:ILE:HD13	1:m:202:LEU:HD21	1.93	0.51
1:Q:504:ILE:HD13	1:S:202:LEU:HD21	1.93	0.51
1:T:361:GLN:HE22	1:T:416:GLU:HG2	1.74	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Y:512:PRO:HB2	1:Z:492:ARG:CZ	2.40	0.51
1:c:410:ARG:NH2	1:c:434:PRO:HD2	2.26	0.51
1:e:504:ILE:HD13	1:h:202:LEU:HD21	1.93	0.51
1:g:128:VAL:HG21	1:g:448:ILE:HD11	1.93	0.51
1:q:410:ARG:NH2	1:q:434:PRO:HD2	2.26	0.51
1:r:202:LEU:HD21	1:x:504:ILE:HD13	1.93	0.51
1:t:202:LEU:HD21	1:y:504:ILE:HD13	1.93	0.51
1:v:202:LEU:HD21	1:1:504:ILE:HD13	1.93	0.51
1:v:375:ASN:HB2	1:v:376:PRO:HD2	1.93	0.51
1:1:375:ASN:HB2	1:1:376:PRO:HD2	1.93	0.51
1:2:410:ARG:O	1:2:535:LYS:NZ	2.38	0.51
1:2:504:ILE:HD13	1:3:202:LEU:HD21	1.93	0.51
1:4:263:PHE:HB2	1:4:293:LYS:HD2	1.93	0.51
1:8:127:LEU:HD21	1:8:129:LYS:HE3	1.92	0.51
1:A:375:ASN:HB2	1:A:376:PRO:HD2	1.93	0.51
1:G:375:ASN:HB2	1:G:376:PRO:HD2	1.93	0.51
1:K:263:PHE:HB2	1:K:293:LYS:HD2	1.93	0.51
1:M:127:LEU:HD21	1:M:129:LYS:HE3	1.92	0.51
1:R:410:ARG:NH2	1:R:434:PRO:HD2	2.26	0.51
1:S:134:GLN:HE22	1:d:153:ALA:HA	1.73	0.51
1:S:263:PHE:HB2	1:S:293:LYS:HD2	1.93	0.51
1:T:128:VAL:HG21	1:T:448:ILE:HD11	1.93	0.51
1:T:410:ARG:NH2	1:T:434:PRO:HD2	2.26	0.51
1:Z:128:VAL:HG21	1:Z:448:ILE:HD11	1.93	0.51
1:a:127:LEU:HD21	1:a:129:LYS:HE3	1.92	0.51
1:c:202:LEU:HD21	1:s:504:ILE:HD13	1.93	0.51
1:d:492:ARG:CZ	1:n:512:PRO:HB2	2.41	0.51
1:g:492:ARG:CZ	1:z:512:PRO:HB2	2.41	0.51
1:i:410:ARG:NH2	1:i:434:PRO:HD2	2.26	0.51
1:m:128:VAL:HG21	1:m:448:ILE:HD11	1.93	0.51
1:t:492:ARG:CZ	1:5:512:PRO:HB2	2.40	0.51
1:u:410:ARG:NH2	1:u:434:PRO:HD2	2.26	0.51
1:2:375:ASN:HB2	1:2:376:PRO:HD2	1.93	0.51
1:7:512:PRO:HB2	1:8:492:ARG:CZ	2.40	0.51
1:8:128:VAL:HG21	1:8:448:ILE:HD11	1.93	0.51
1:B:127:LEU:HD21	1:B:129:LYS:HE3	1.92	0.51
1:E:263:PHE:HB2	1:E:293:LYS:HD2	1.93	0.51
1:E:375:ASN:HB2	1:E:376:PRO:HD2	1.93	0.51
1:E:410:ARG:NH2	1:E:434:PRO:HD2	2.26	0.51
1:F:127:LEU:HD21	1:F:129:LYS:HE3	1.92	0.51
1:F:254:ARG:HD2	1:F:536:THR:O	2.11	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:492:ARG:CZ	1:H:512:PRO:HB2	2.40	0.51
1:I:410:ARG:NH2	1:I:434:PRO:HD2	2.26	0.51
1:I:504:ILE:HD13	1:J:202:LEU:HD21	1.93	0.51
1:J:375:ASN:HB2	1:J:376:PRO:HD2	1.93	0.51
1:K:375:ASN:HB2	1:K:376:PRO:HD2	1.93	0.51
1:N:375:ASN:HB2	1:N:376:PRO:HD2	1.93	0.51
1:O:504:ILE:HD13	1:P:202:LEU:HD21	1.93	0.51
1:P:375:ASN:HB2	1:P:376:PRO:HD2	1.93	0.51
1:R:128:VAL:HG21	1:R:448:ILE:HD11	1.93	0.51
1:R:375:ASN:HB2	1:R:376:PRO:HD2	1.93	0.51
1:T:127:LEU:HD21	1:T:129:LYS:HE3	1.92	0.51
1:T:202:LEU:HD21	1:i:504:ILE:HD13	1.93	0.51
1:X:263:PHE:HB2	1:X:293:LYS:HD2	1.93	0.51
1:a:263:PHE:HB2	1:a:293:LYS:HD2	1.93	0.51
1:c:375:ASN:HB2	1:c:376:PRO:HD2	1.93	0.51
1:e:375:ASN:HB2	1:e:376:PRO:HD2	1.93	0.51
1:f:263:PHE:HB2	1:f:293:LYS:HD2	1.93	0.51
1:g:254:ARG:HD2	1:g:536:THR:O	2.11	0.51
1:h:127:LEU:HD21	1:h:129:LYS:HE3	1.92	0.51
1:i:127:LEU:HD21	1:i:129:LYS:HE3	1.92	0.51
1:j:375:ASN:HB2	1:j:376:PRO:HD2	1.93	0.51
1:k:127:LEU:HD21	1:k:129:LYS:HE3	1.92	0.51
1:m:127:LEU:HD21	1:m:129:LYS:HE3	1.92	0.51
1:m:410:ARG:NH2	1:m:434:PRO:HD2	2.26	0.51
1:o:375:ASN:HB2	1:o:376:PRO:HD2	1.93	0.51
1:p:492:ARG:CZ	1:s:512:PRO:HB2	2.41	0.51
1:r:263:PHE:HB2	1:r:293:LYS:HD2	1.93	0.51
1:t:375:ASN:HB2	1:t:376:PRO:HD2	1.93	0.51
1:u:504:ILE:HD13	1:2:202:LEU:HD21	1.93	0.51
1:w:263:PHE:HB2	1:w:293:LYS:HD2	1.93	0.51
1:w:375:ASN:HB2	1:w:376:PRO:HD2	1.93	0.51
1:w:410:ARG:NH2	1:w:434:PRO:HD2	2.26	0.51
1:y:254:ARG:HD2	1:y:536:THR:O	2.11	0.51
1:3:127:LEU:HD21	1:3:129:LYS:HE3	1.92	0.51
1:3:263:PHE:HB2	1:3:293:LYS:HD2	1.93	0.51
1:4:375:ASN:HB2	1:4:376:PRO:HD2	1.93	0.51
1:C:254:ARG:HD2	1:C:536:THR:O	2.11	0.51
1:D:127:LEU:HD21	1:D:129:LYS:HE3	1.92	0.51
1:F:410:ARG:O	1:F:535:LYS:NZ	2.38	0.51
1:G:504:ILE:HD13	1:W:202:LEU:HD21	1.93	0.51
1:H:410:ARG:NH2	1:H:434:PRO:HD2	2.26	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:504:ILE:HD13	1:I:202:LEU:HD21	1.93	0.51
1:I:254:ARG:HD2	1:I:536:THR:O	2.11	0.51
1:J:254:ARG:HD2	1:J:536:THR:O	2.11	0.51
1:J:410:ARG:O	1:J:535:LYS:NZ	2.38	0.51
1:P:254:ARG:HD2	1:P:536:THR:O	2.11	0.51
1:T:375:ASN:HB2	1:T:376:PRO:HD2	1.93	0.51
1:T:535:LYS:NZ	1:d:427:ASP:OD2	2.31	0.51
1:U:254:ARG:HD2	1:U:536:THR:O	2.11	0.51
1:U:512:PRO:HB2	1:V:492:ARG:CZ	2.41	0.51
1:V:128:VAL:HG21	1:V:448:ILE:HD11	1.93	0.51
1:V:410:ARG:NH2	1:V:434:PRO:HD2	2.26	0.51
1:X:375:ASN:HB2	1:X:376:PRO:HD2	1.93	0.51
1:a:233:LEU:HD22	1:a:237:GLU:HB3	1.93	0.51
1:b:263:PHE:HB2	1:b:293:LYS:HD2	1.93	0.51
1:b:410:ARG:NH2	1:b:434:PRO:HD2	2.26	0.51
1:d:254:ARG:HD2	1:d:536:THR:O	2.11	0.51
1:h:233:LEU:HD22	1:h:237:GLU:HB3	1.93	0.51
1:m:263:PHE:HB2	1:m:293:LYS:HD2	1.93	0.51
1:p:410:ARG:NH2	1:p:434:PRO:HD2	2.26	0.51
1:q:128:VAL:HG21	1:q:448:ILE:HD11	1.93	0.51
1:q:375:ASN:HB2	1:q:376:PRO:HD2	1.93	0.51
1:t:504:ILE:HD13	1:6:202:LEU:HD21	1.93	0.51
1:u:202:LEU:HD21	1:5:504:ILE:HD13	1.93	0.51
1:u:254:ARG:HD2	1:u:536:THR:O	2.11	0.51
1:y:127:LEU:HD21	1:y:129:LYS:HE3	1.92	0.51
1:1:127:LEU:HD21	1:1:129:LYS:HE3	1.92	0.51
1:2:254:ARG:HD2	1:2:536:THR:O	2.11	0.51
1:5:410:ARG:NH2	1:5:434:PRO:HD2	2.26	0.51
1:6:263:PHE:HB2	1:6:293:LYS:HD2	1.93	0.51
1:A:254:ARG:HD2	1:A:536:THR:O	2.11	0.50
1:D:254:ARG:HD2	1:D:536:THR:O	2.11	0.50
1:L:254:ARG:HD2	1:L:536:THR:O	2.11	0.50
1:M:128:VAL:HG21	1:M:448:ILE:HD11	1.93	0.50
1:M:233:LEU:HD22	1:M:237:GLU:HB3	1.93	0.50
1:M:375:ASN:HB2	1:M:376:PRO:HD2	1.93	0.50
1:O:254:ARG:HD2	1:O:536:THR:O	2.11	0.50
1:P:306:GLY:O	1:P:355:TYR:OH	2.21	0.50
1:R:202:LEU:HD21	1:V:504:ILE:HD13	1.93	0.50
1:T:263:PHE:HB2	1:T:293:LYS:HD2	1.93	0.50
1:W:263:PHE:HB2	1:W:293:LYS:HD2	1.93	0.50
1:Y:128:VAL:HG21	1:Y:448:ILE:HD11	1.93	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Y:375:ASN:HB2	1:Y:376:PRO:HD2	1.93	0.50
1:Z:410:ARG:NH2	1:Z:434:PRO:HD2	2.26	0.50
1:c:263:PHE:HB2	1:c:293:LYS:HD2	1.93	0.50
1:e:263:PHE:HB2	1:e:293:LYS:HD2	1.93	0.50
1:f:410:ARG:NH2	1:f:434:PRO:HD2	2.26	0.50
1:g:375:ASN:HB2	1:g:376:PRO:HD2	1.93	0.50
1:h:128:VAL:HG21	1:h:448:ILE:HD11	1.93	0.50
1:j:233:LEU:HD22	1:j:237:GLU:HB3	1.93	0.50
1:j:254:ARG:HD2	1:j:536:THR:O	2.12	0.50
1:k:254:ARG:HD2	1:k:536:THR:O	2.11	0.50
1:l:127:LEU:HD21	1:l:129:LYS:HE3	1.92	0.50
1:l:410:ARG:NH2	1:l:434:PRO:HD2	2.26	0.50
1:m:375:ASN:HB2	1:m:376:PRO:HD2	1.93	0.50
1:n:202:LEU:HD21	1:r:504:ILE:HD13	1.93	0.50
1:n:254:ARG:HD2	1:n:536:THR:O	2.11	0.50
1:o:263:PHE:HB2	1:o:293:LYS:HD2	1.93	0.50
1:p:128:VAL:HG21	1:p:448:ILE:HD11	1.93	0.50
1:p:504:ILE:HD13	1:q:202:LEU:HD21	1.93	0.50
1:s:233:LEU:HD22	1:s:237:GLU:HB3	1.93	0.50
1:s:254:ARG:HD2	1:s:536:THR:O	2.11	0.50
1:t:127:LEU:HD21	1:t:129:LYS:HE3	1.92	0.50
1:v:254:ARG:HD2	1:v:536:THR:O	2.11	0.50
1:x:128:VAL:HG21	1:x:448:ILE:HD11	1.93	0.50
1:y:263:PHE:HB2	1:y:293:LYS:HD2	1.93	0.50
1:3:233:LEU:HD22	1:3:237:GLU:HB3	1.93	0.50
1:7:128:VAL:HG21	1:7:448:ILE:HD11	1.93	0.50
1:C:233:LEU:HD22	1:C:237:GLU:HB3	1.93	0.50
1:C:375:ASN:HB2	1:C:376:PRO:HD2	1.93	0.50
1:D:263:PHE:HB2	1:D:293:LYS:HD2	1.93	0.50
1:E:254:ARG:HD2	1:E:536:THR:O	2.11	0.50
1:F:128:VAL:HG21	1:F:448:ILE:HD11	1.93	0.50
1:F:263:PHE:HB2	1:F:293:LYS:HD2	1.93	0.50
1:G:127:LEU:HD21	1:G:129:LYS:HE3	1.92	0.50
1:K:410:ARG:NH2	1:K:434:PRO:HD2	2.26	0.50
1:L:128:VAL:HG21	1:L:448:ILE:HD11	1.93	0.50
1:O:127:LEU:HD21	1:O:129:LYS:HE3	1.92	0.50
1:O:410:ARG:NH2	1:O:434:PRO:HD2	2.26	0.50
1:P:233:LEU:HD22	1:P:237:GLU:HB3	1.93	0.50
1:Q:128:VAL:HG21	1:Q:448:ILE:HD11	1.93	0.50
1:Q:254:ARG:HD2	1:Q:536:THR:O	2.11	0.50
1:Q:263:PHE:HB2	1:Q:293:LYS:HD2	1.93	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Q:492:ARG:CZ	1:R:512:PRO:HB2	2.40	0.50
1:U:233:LEU:HD22	1:U:237:GLU:HB3	1.93	0.50
1:Z:101:GLN:OE1	1:Z:176:VAL:HG11	2.12	0.50
1:d:263:PHE:HB2	1:d:293:LYS:HD2	1.93	0.50
1:d:410:ARG:NH2	1:d:434:PRO:HD2	2.26	0.50
1:h:410:ARG:O	1:h:535:LYS:NZ	2.38	0.50
1:h:504:ILE:HD13	1:i:202:LEU:HD21	1.93	0.50
1:i:375:ASN:HB2	1:i:376:PRO:HD2	1.93	0.50
1:l:254:ARG:HD2	1:l:536:THR:O	2.11	0.50
1:l:263:PHE:HB2	1:l:293:LYS:HD2	1.93	0.50
1:r:127:LEU:HD21	1:r:129:LYS:HE3	1.92	0.50
1:t:410:ARG:NH2	1:t:434:PRO:HD2	2.26	0.50
1:x:263:PHE:HB2	1:x:293:LYS:HD2	1.93	0.50
1:y:128:VAL:HG21	1:y:448:ILE:HD11	1.93	0.50
1:z:254:ARG:HD2	1:z:536:THR:O	2.11	0.50
1:3:254:ARG:HD2	1:3:536:THR:O	2.11	0.50
1:4:410:ARG:NH2	1:4:434:PRO:HD2	2.26	0.50
1:7:375:ASN:HB2	1:7:376:PRO:HD2	1.93	0.50
1:8:101:GLN:OE1	1:8:176:VAL:HG11	2.12	0.50
1:8:410:ARG:NH2	1:8:434:PRO:HD2	2.26	0.50
1:B:101:GLN:OE1	1:B:176:VAL:HG11	2.12	0.50
1:G:410:ARG:NH2	1:G:434:PRO:HD2	2.26	0.50
1:H:128:VAL:HG21	1:H:448:ILE:HD11	1.93	0.50
1:H:306:GLY:O	1:H:355:TYR:OH	2.21	0.50
1:L:101:GLN:OE1	1:L:176:VAL:HG11	2.12	0.50
1:M:410:ARG:NH2	1:M:434:PRO:HD2	2.26	0.50
1:M:410:ARG:O	1:M:535:LYS:NZ	2.38	0.50
1:O:263:PHE:HB2	1:O:293:LYS:HD2	1.93	0.50
1:P:410:ARG:NH2	1:P:434:PRO:HD2	2.26	0.50
1:S:127:LEU:HD21	1:S:129:LYS:HE3	1.92	0.50
1:S:128:VAL:HG21	1:S:448:ILE:HD11	1.93	0.50
1:T:254:ARG:HD2	1:T:536:THR:O	2.11	0.50
1:T:504:ILE:HD13	1:U:202:LEU:HD21	1.92	0.50
1:V:119:LYS:HG3	1:V:120:ARG:HG2	1.94	0.50
1:a:254:ARG:HD2	1:a:536:THR:O	2.11	0.50
1:a:410:ARG:NH2	1:a:434:PRO:HD2	2.26	0.50
1:g:233:LEU:HD22	1:g:237:GLU:HB3	1.93	0.50
1:g:410:ARG:NH2	1:g:434:PRO:HD2	2.26	0.50
1:h:375:ASN:HB2	1:h:376:PRO:HD2	1.93	0.50
1:i:254:ARG:HD2	1:i:536:THR:O	2.11	0.50
1:k:263:PHE:HB2	1:k:293:LYS:HD2	1.93	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:m:504:ILE:HD13	1:s:202:LEU:HD21	1.92	0.50
1:n:263:PHE:HB2	1:n:293:LYS:HD2	1.93	0.50
1:n:410:ARG:NH2	1:n:434:PRO:HD2	2.26	0.50
1:q:512:PRO:HB2	1:x:492:ARG:CZ	2.40	0.50
1:w:254:ARG:HD2	1:w:536:THR:O	2.11	0.50
1:x:127:LEU:HD21	1:x:129:LYS:HE3	1.92	0.50
1:x:254:ARG:HD2	1:x:536:THR:O	2.11	0.50
1:z:101:GLN:OE1	1:z:176:VAL:HG11	2.12	0.50
1:1:101:GLN:OE1	1:1:176:VAL:HG11	2.12	0.50
1:1:254:ARG:HD2	1:1:536:THR:O	2.11	0.50
1:3:410:ARG:NH2	1:3:434:PRO:HD2	2.26	0.50
1:5:128:VAL:HG21	1:5:448:ILE:HD11	1.93	0.50
1:6:127:LEU:HD21	1:6:129:LYS:HE3	1.92	0.50
1:B:119:LYS:HG3	1:B:120:ARG:HG2	1.94	0.50
1:B:254:ARG:HD2	1:B:536:THR:O	2.11	0.50
1:B:410:ARG:NH2	1:B:434:PRO:HD2	2.26	0.50
1:C:410:ARG:NH2	1:C:434:PRO:HD2	2.26	0.50
1:H:202:LEU:HD21	1:Z:504:ILE:HD13	1.93	0.50
1:J:203:ASP:OD2	1:J:331:ASN:ND2	2.45	0.50
1:L:233:LEU:HD22	1:L:237:GLU:HB3	1.93	0.50
1:Q:127:LEU:HD21	1:Q:129:LYS:HE3	1.92	0.50
1:Q:233:LEU:HD22	1:Q:237:GLU:HB3	1.93	0.50
1:V:375:ASN:HB2	1:V:376:PRO:HD2	1.93	0.50
1:W:101:GLN:OE1	1:W:176:VAL:HG11	2.12	0.50
1:W:127:LEU:HD21	1:W:129:LYS:HE3	1.92	0.50
1:W:410:ARG:NH2	1:W:434:PRO:HD2	2.26	0.50
1:Z:254:ARG:HD2	1:Z:536:THR:O	2.11	0.50
1:c:101:GLN:OE1	1:c:176:VAL:HG11	2.12	0.50
1:c:229:ASP:OD1	1:s:45:GLY:N	2.33	0.50
1:h:410:ARG:NH2	1:h:434:PRO:HD2	2.26	0.50
1:j:410:ARG:NH2	1:j:434:PRO:HD2	2.26	0.50
1:m:254:ARG:HD2	1:m:536:THR:O	2.11	0.50
1:p:233:LEU:HD22	1:p:237:GLU:HB3	1.93	0.50
1:r:128:VAL:HG21	1:r:448:ILE:HD11	1.93	0.50
1:t:233:LEU:HD22	1:t:237:GLU:HB3	1.93	0.50
1:v:504:ILE:HD13	1:w:202:LEU:HD21	1.93	0.50
1:z:128:VAL:HG21	1:z:448:ILE:HD11	1.93	0.50
1:1:119:LYS:HG3	1:1:120:ARG:HG2	1.94	0.50
1:2:203:ASP:OD2	1:2:331:ASN:ND2	2.45	0.50
1:5:535:LYS:NZ	1:6:427:ASP:OD2	2.28	0.50
1:7:410:ARG:O	1:7:535:LYS:NZ	2.38	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:8:254:ARG:HD2	1:8:536:THR:O	2.11	0.50
1:C:127:LEU:HD21	1:C:129:LYS:HE3	1.92	0.50
1:F:101:GLN:OE1	1:F:176:VAL:HG11	2.12	0.50
1:F:202:LEU:HD21	1:R:504:ILE:HD13	1.92	0.50
1:G:233:LEU:HD22	1:G:237:GLU:HB3	1.93	0.50
1:L:119:LYS:HG3	1:L:120:ARG:HG2	1.94	0.50
1:M:504:ILE:HD13	1:N:202:LEU:HD21	1.93	0.50
1:N:254:ARG:HD2	1:N:536:THR:O	2.12	0.50
1:Q:203:ASP:OD2	1:Q:331:ASN:ND2	2.45	0.50
1:Q:410:ARG:NH2	1:Q:434:PRO:HD2	2.26	0.50
1:R:254:ARG:HD2	1:R:536:THR:O	2.11	0.50
1:S:119:LYS:HG3	1:S:120:ARG:HG2	1.94	0.50
1:S:203:ASP:OD2	1:S:331:ASN:ND2	2.45	0.50
1:S:410:ARG:NH2	1:S:434:PRO:HD2	2.26	0.50
1:V:233:LEU:HD22	1:V:237:GLU:HB3	1.93	0.50
1:W:119:LYS:HG3	1:W:120:ARG:HG2	1.94	0.50
1:W:254:ARG:HD2	1:W:536:THR:O	2.11	0.50
1:X:203:ASP:OD2	1:X:331:ASN:ND2	2.45	0.50
1:Y:119:LYS:HG3	1:Y:120:ARG:HG2	1.94	0.50
1:Y:127:LEU:HD21	1:Y:129:LYS:HE3	1.92	0.50
1:Y:410:ARG:NH2	1:Y:434:PRO:HD2	2.26	0.50
1:Z:203:ASP:OD2	1:Z:331:ASN:ND2	2.45	0.50
1:f:254:ARG:HD2	1:f:536:THR:O	2.11	0.50
1:f:375:ASN:HB2	1:f:376:PRO:HD2	1.93	0.50
1:i:203:ASP:OD2	1:i:331:ASN:ND2	2.45	0.50
1:n:101:GLN:OE1	1:n:176:VAL:HG11	2.12	0.50
1:o:203:ASP:OD2	1:o:331:ASN:ND2	2.45	0.50
1:p:119:LYS:HG3	1:p:120:ARG:HG2	1.94	0.50
1:r:119:LYS:HG3	1:r:120:ARG:HG2	1.94	0.50
1:r:203:ASP:OD2	1:r:331:ASN:ND2	2.45	0.50
1:r:375:ASN:HB2	1:r:376:PRO:HD2	1.93	0.50
1:r:410:ARG:NH2	1:r:434:PRO:HD2	2.26	0.50
1:x:203:ASP:OD2	1:x:331:ASN:ND2	2.45	0.50
1:x:233:LEU:HD22	1:x:237:GLU:HB3	1.93	0.50
1:x:410:ARG:NH2	1:x:434:PRO:HD2	2.26	0.50
1:z:233:LEU:HD22	1:z:237:GLU:HB3	1.93	0.50
1:1:263:PHE:HB2	1:1:293:LYS:HD2	1.93	0.50
1:1:410:ARG:NH2	1:1:434:PRO:HD2	2.26	0.50
1:5:202:LEU:HD21	1:8:504:ILE:HD13	1.93	0.50
1:6:101:GLN:OE1	1:6:176:VAL:HG11	2.12	0.50
1:6:119:LYS:HG3	1:6:120:ARG:HG2	1.94	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:6:410:ARG:NH2	1:6:434:PRO:HD2	2.26	0.50
1:7:119:LYS:HG3	1:7:120:ARG:HG2	1.94	0.50
1:8:203:ASP:OD2	1:8:331:ASN:ND2	2.45	0.50
1:A:504:ILE:HD13	1:E:202:LEU:HD21	1.93	0.50
1:B:263:PHE:HB2	1:B:293:LYS:HD2	1.93	0.50
1:C:119:LYS:HG3	1:C:120:ARG:HG2	1.94	0.50
1:D:203:ASP:OD2	1:D:331:ASN:ND2	2.45	0.50
1:I:127:LEU:HD21	1:I:129:LYS:HE3	1.92	0.50
1:K:128:VAL:HG21	1:K:448:ILE:HD11	1.93	0.50
1:N:203:ASP:OD2	1:N:331:ASN:ND2	2.45	0.50
1:S:375:ASN:HB2	1:S:376:PRO:HD2	1.93	0.50
1:T:233:LEU:HD22	1:T:237:GLU:HB3	1.93	0.50
1:X:101:GLN:OE1	1:X:176:VAL:HG11	2.12	0.50
1:X:119:LYS:HG3	1:X:120:ARG:HG2	1.94	0.50
1:Y:203:ASP:OD2	1:Y:331:ASN:ND2	2.45	0.50
1:Z:233:LEU:HD22	1:Z:237:GLU:HB3	1.93	0.50
1:b:119:LYS:HG3	1:b:120:ARG:HG2	1.94	0.50
1:b:254:ARG:HD2	1:b:536:THR:O	2.11	0.50
1:d:101:GLN:OE1	1:d:176:VAL:HG11	2.12	0.50
1:e:101:GLN:OE1	1:e:176:VAL:HG11	2.12	0.50
1:f:119:LYS:HG3	1:f:120:ARG:HG2	1.94	0.50
1:g:101:GLN:OE1	1:g:176:VAL:HG11	2.12	0.50
1:g:119:LYS:HG3	1:g:120:ARG:HG2	1.94	0.50
1:p:375:ASN:HB2	1:p:376:PRO:HD2	1.93	0.50
1:s:101:GLN:OE1	1:s:176:VAL:HG11	2.12	0.50
1:u:127:LEU:HD21	1:u:129:LYS:HE3	1.92	0.50
1:y:101:GLN:OE1	1:y:176:VAL:HG11	2.12	0.50
1:z:119:LYS:HG3	1:z:120:ARG:HG2	1.94	0.50
1:4:128:VAL:HG21	1:4:448:ILE:HD11	1.93	0.50
1:5:203:ASP:OD2	1:5:331:ASN:ND2	2.45	0.50
1:5:306:GLY:O	1:5:355:TYR:OH	2.21	0.50
1:6:254:ARG:HD2	1:6:536:THR:O	2.11	0.50
1:7:127:LEU:HD21	1:7:129:LYS:HE3	1.92	0.50
1:7:203:ASP:OD2	1:7:331:ASN:ND2	2.45	0.50
1:8:233:LEU:HD22	1:8:237:GLU:HB3	1.93	0.50
1:A:410:ARG:NH2	1:A:434:PRO:HD2	2.26	0.50
1:C:101:GLN:OE1	1:C:176:VAL:HG11	2.12	0.50
1:E:203:ASP:OD2	1:E:331:ASN:ND2	2.45	0.50
1:H:203:ASP:OD2	1:H:331:ASN:ND2	2.45	0.50
1:L:203:ASP:OD2	1:L:331:ASN:ND2	2.45	0.50
1:M:101:GLN:OE1	1:M:176:VAL:HG11	2.12	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:U:101:GLN:OE1	1:U:176:VAL:HG11	2.12	0.50
1:U:128:VAL:HG21	1:U:448:ILE:HD11	1.93	0.50
1:Y:410:ARG:O	1:Y:535:LYS:NZ	2.38	0.50
1:b:375:ASN:HB2	1:b:376:PRO:HD2	1.93	0.50
1:g:127:LEU:HD21	1:g:129:LYS:HE3	1.92	0.50
1:h:101:GLN:OE1	1:h:176:VAL:HG11	2.12	0.50
1:h:203:ASP:OD2	1:h:331:ASN:ND2	2.45	0.50
1:j:45:GLY:N	1:x:229:ASP:OD1	2.33	0.50
1:k:203:ASP:OD2	1:k:331:ASN:ND2	2.45	0.50
1:o:101:GLN:OE1	1:o:176:VAL:HG11	2.12	0.50
1:o:119:LYS:HG3	1:o:120:ARG:HG2	1.94	0.50
1:p:202:LEU:HD21	1:6:504:ILE:HD13	1.93	0.50
1:q:254:ARG:HD2	1:q:536:THR:O	2.11	0.50
1:q:504:ILE:HD13	1:y:202:LEU:HD21	1.93	0.50
1:w:233:LEU:HD22	1:w:237:GLU:HB3	1.93	0.50
1:z:203:ASP:OD2	1:z:331:ASN:ND2	2.45	0.50
1:2:101:GLN:OE1	1:2:176:VAL:HG11	2.12	0.50
1:2:263:PHE:HB2	1:2:293:LYS:HD2	1.93	0.50
1:7:410:ARG:NH2	1:7:434:PRO:HD2	2.26	0.50
1:D:101:GLN:OE1	1:D:176:VAL:HG11	2.12	0.50
1:D:233:LEU:HD22	1:D:237:GLU:HB3	1.93	0.50
1:E:128:VAL:HG21	1:E:448:ILE:HD11	1.93	0.50
1:E:233:LEU:HD22	1:E:237:GLU:HB3	1.93	0.50
1:H:254:ARG:HD2	1:H:536:THR:O	2.11	0.50
1:J:101:GLN:OE1	1:J:176:VAL:HG11	2.12	0.50
1:J:263:PHE:HB2	1:J:293:LYS:HD2	1.93	0.50
1:L:263:PHE:HB2	1:L:293:LYS:HD2	1.93	0.50
1:L:504:ILE:HD13	1:b:202:LEU:HD21	1.93	0.50
1:M:203:ASP:OD2	1:M:331:ASN:ND2	2.45	0.50
1:M:254:ARG:HD2	1:M:536:THR:O	2.11	0.50
1:O:119:LYS:HG3	1:O:120:ARG:HG2	1.94	0.50
1:R:233:LEU:HD22	1:R:237:GLU:HB3	1.93	0.50
1:U:127:LEU:HD21	1:U:129:LYS:HE3	1.92	0.50
1:V:202:LEU:HD21	1:W:504:ILE:HD13	1.93	0.50
1:W:128:VAL:HG21	1:W:448:ILE:HD11	1.93	0.50
1:W:203:ASP:OD2	1:W:331:ASN:ND2	2.45	0.50
1:W:492:ARG:CZ	1:X:512:PRO:HB2	2.40	0.50
1:Y:233:LEU:HD22	1:Y:237:GLU:HB3	1.93	0.50
1:Z:119:LYS:HG3	1:Z:120:ARG:HG2	1.94	0.50
1:d:233:LEU:HD22	1:d:237:GLU:HB3	1.93	0.50
1:f:202:LEU:HD21	1:z:504:ILE:HD13	1.93	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:k:101:GLN:OE1	1:k:176:VAL:HG11	2.12	0.50
1:k:233:LEU:HD22	1:k:237:GLU:HB3	1.93	0.50
1:l:119:LYS:HG3	1:l:120:ARG:HG2	1.94	0.50
1:m:233:LEU:HD22	1:m:237:GLU:HB3	1.93	0.50
1:q:233:LEU:HD22	1:q:237:GLU:HB3	1.93	0.50
1:v:410:ARG:NH2	1:v:434:PRO:HD2	2.26	0.50
1:w:128:VAL:HG21	1:w:448:ILE:HD11	1.93	0.50
1:w:203:ASP:OD2	1:w:331:ASN:ND2	2.45	0.50
1:z:263:PHE:HB2	1:z:293:LYS:HD2	1.93	0.50
1:z:410:ARG:NH2	1:z:434:PRO:HD2	2.26	0.50
1:5:254:ARG:HD2	1:5:536:THR:O	2.11	0.50
1:6:128:VAL:HG21	1:6:448:ILE:HD11	1.93	0.50
1:7:101:GLN:OE1	1:7:176:VAL:HG11	2.12	0.50
1:7:263:PHE:HB2	1:7:293:LYS:HD2	1.93	0.50
1:8:119:LYS:HG3	1:8:120:ARG:HG2	1.94	0.50
1:B:256:TYR:CD1	1:B:257:ILE:HG23	2.47	0.50
1:F:306:GLY:O	1:F:355:TYR:OH	2.21	0.50
1:I:203:ASP:OD2	1:I:331:ASN:ND2	2.45	0.50
1:L:410:ARG:NH2	1:L:434:PRO:HD2	2.26	0.50
1:P:203:ASP:OD2	1:P:331:ASN:ND2	2.45	0.50
1:T:203:ASP:OD2	1:T:331:ASN:ND2	2.45	0.50
1:U:410:ARG:NH2	1:U:434:PRO:HD2	2.26	0.50
1:X:254:ARG:HD2	1:X:536:THR:O	2.11	0.50
1:X:410:ARG:NH2	1:X:434:PRO:HD2	2.26	0.50
1:Y:263:PHE:HB2	1:Y:293:LYS:HD2	1.93	0.50
1:e:233:LEU:HD22	1:e:237:GLU:HB3	1.93	0.50
1:f:101:GLN:OE1	1:f:176:VAL:HG11	2.12	0.50
1:g:504:ILE:HD13	1:1:202:LEU:HD21	1.93	0.50
1:j:101:GLN:OE1	1:j:176:VAL:HG11	2.12	0.50
1:j:203:ASP:OD2	1:j:331:ASN:ND2	2.45	0.50
1:m:203:ASP:OD2	1:m:331:ASN:ND2	2.45	0.50
1:n:233:LEU:HD22	1:n:237:GLU:HB3	1.93	0.50
1:o:254:ARG:HD2	1:o:536:THR:O	2.11	0.50
1:o:504:ILE:HD13	1:7:202:LEU:HD21	1.93	0.50
1:o:512:PRO:HB2	1:6:492:ARG:CZ	2.40	0.50
1:s:127:LEU:HD21	1:s:129:LYS:HE3	1.92	0.50
1:s:128:VAL:HG21	1:s:448:ILE:HD11	1.93	0.50
1:u:203:ASP:OD2	1:u:331:ASN:ND2	2.45	0.50
1:v:101:GLN:OE1	1:v:176:VAL:HG11	2.12	0.50
1:x:101:GLN:OE1	1:x:176:VAL:HG11	2.12	0.50
1:1:256:TYR:CD1	1:1:257:ILE:HG23	2.47	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:101:GLN:OE1	1:A:176:VAL:HG11	2.12	0.49
1:B:128:VAL:HG21	1:B:448:ILE:HD11	1.93	0.49
1:B:202:LEU:HD21	1:C:504:ILE:HD13	1.93	0.49
1:C:256:TYR:CD1	1:C:257:ILE:HG23	2.47	0.49
1:D:119:LYS:HG3	1:D:120:ARG:HG2	1.94	0.49
1:E:101:GLN:OE1	1:E:176:VAL:HG11	2.12	0.49
1:F:203:ASP:OD2	1:F:331:ASN:ND2	2.45	0.49
1:F:410:ARG:NH2	1:F:434:PRO:HD2	2.26	0.49
1:G:254:ARG:HD2	1:G:536:THR:O	2.11	0.49
1:J:256:TYR:CD1	1:J:257:ILE:HG23	2.47	0.49
1:K:203:ASP:OD2	1:K:331:ASN:ND2	2.45	0.49
1:O:128:VAL:HG21	1:O:448:ILE:HD11	1.93	0.49
1:O:202:LEU:HD21	1:d:504:ILE:HD13	1.92	0.49
1:P:101:GLN:OE1	1:P:176:VAL:HG11	2.12	0.49
1:Q:101:GLN:OE1	1:Q:176:VAL:HG11	2.12	0.49
1:S:254:ARG:HD2	1:S:536:THR:O	2.11	0.49
1:U:256:TYR:CD1	1:U:257:ILE:HG23	2.47	0.49
1:W:233:LEU:HD22	1:W:237:GLU:HB3	1.93	0.49
1:X:233:LEU:HD22	1:X:237:GLU:HB3	1.93	0.49
1:X:504:ILE:HD13	1:Y:202:LEU:HD21	1.93	0.49
1:Y:101:GLN:OE1	1:Y:176:VAL:HG11	2.12	0.49
1:Y:256:TYR:CD1	1:Y:257:ILE:HG23	2.47	0.49
1:Z:202:LEU:HD21	1:a:504:ILE:HD13	1.93	0.49
1:a:128:VAL:HG21	1:a:448:ILE:HD11	1.93	0.49
1:b:101:GLN:OE1	1:b:176:VAL:HG11	2.12	0.49
1:d:128:VAL:HG21	1:d:448:ILE:HD11	1.93	0.49
1:g:256:TYR:CD1	1:g:257:ILE:HG23	2.47	0.49
1:h:254:ARG:HD2	1:h:536:THR:O	2.11	0.49
1:k:119:LYS:HG3	1:k:120:ARG:HG2	1.94	0.49
1:p:263:PHE:HB2	1:p:293:LYS:HD2	1.93	0.49
1:s:256:TYR:CD1	1:s:257:ILE:HG23	2.47	0.49
1:y:203:ASP:OD2	1:y:331:ASN:ND2	2.45	0.49
1:2:256:TYR:CD1	1:2:257:ILE:HG23	2.47	0.49
1:6:203:ASP:OD2	1:6:331:ASN:ND2	2.45	0.49
1:7:233:LEU:HD22	1:7:237:GLU:HB3	1.93	0.49
1:A:119:LYS:HG3	1:A:120:ARG:HG2	1.94	0.49
1:A:256:TYR:CD1	1:A:257:ILE:HG23	2.47	0.49
1:G:119:LYS:HG3	1:G:120:ARG:HG2	1.94	0.49
1:H:263:PHE:HB2	1:H:293:LYS:HD2	1.93	0.49
1:J:128:VAL:HG21	1:J:448:ILE:HD11	1.93	0.49
1:J:410:ARG:NH2	1:J:434:PRO:HD2	2.26	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:233:LEU:HD22	1:K:237:GLU:HB3	1.93	0.49
1:L:375:ASN:HB2	1:L:376:PRO:HD2	1.93	0.49
1:O:256:TYR:CD1	1:O:257:ILE:HG23	2.47	0.49
1:P:45:GLY:N	1:Q:229:ASP:OD1	2.33	0.49
1:R:203:ASP:OD2	1:R:331:ASN:ND2	2.45	0.49
1:S:101:GLN:OE1	1:S:176:VAL:HG11	2.12	0.49
1:U:203:ASP:OD2	1:U:331:ASN:ND2	2.45	0.49
1:V:263:PHE:HB2	1:V:293:LYS:HD2	1.93	0.49
1:W:375:ASN:HB2	1:W:376:PRO:HD2	1.93	0.49
1:Z:256:TYR:CD1	1:Z:257:ILE:HG23	2.47	0.49
1:b:504:ILE:HD13	1:o:202:LEU:HD21	1.93	0.49
1:c:233:LEU:HD22	1:c:237:GLU:HB3	1.93	0.49
1:f:203:ASP:OD2	1:f:331:ASN:ND2	2.45	0.49
1:g:263:PHE:HB2	1:g:293:LYS:HD2	1.93	0.49
1:j:128:VAL:HG21	1:j:448:ILE:HD11	1.93	0.49
1:k:410:ARG:NH2	1:k:434:PRO:HD2	2.26	0.49
1:l:128:VAL:HG21	1:l:448:ILE:HD11	1.93	0.49
1:l:256:TYR:CD1	1:l:257:ILE:HG23	2.47	0.49
1:n:128:VAL:HG21	1:n:448:ILE:HD11	1.93	0.49
1:o:233:LEU:HD22	1:o:237:GLU:HB3	1.93	0.49
1:o:410:ARG:NH2	1:o:434:PRO:HD2	2.26	0.49
1:o:535:LYS:NZ	1:p:427:ASP:OD2	2.28	0.49
1:p:203:ASP:OD2	1:p:331:ASN:ND2	2.45	0.49
1:p:254:ARG:HD2	1:p:536:THR:O	2.11	0.49
1:r:254:ARG:HD2	1:r:536:THR:O	2.11	0.49
1:s:410:ARG:NH2	1:s:434:PRO:HD2	2.26	0.49
1:t:119:LYS:HG3	1:t:120:ARG:HG2	1.94	0.49
1:t:254:ARG:HD2	1:t:536:THR:O	2.11	0.49
1:v:119:LYS:HG3	1:v:120:ARG:HG2	1.94	0.49
1:v:256:TYR:CD1	1:v:257:ILE:HG23	2.47	0.49
1:w:101:GLN:OE1	1:w:176:VAL:HG11	2.12	0.49
1:y:306:GLY:O	1:y:355:TYR:OH	2.21	0.49
1:z:375:ASN:HB2	1:z:376:PRO:HD2	1.93	0.49
1:1:128:VAL:HG21	1:1:448:ILE:HD11	1.93	0.49
1:1:203:ASP:OD2	1:1:331:ASN:ND2	2.45	0.49
1:2:128:VAL:HG21	1:2:448:ILE:HD11	1.93	0.49
1:3:504:ILE:HD13	1:8:202:LEU:HD21	1.93	0.49
1:4:101:GLN:OE1	1:4:176:VAL:HG11	2.12	0.49
1:4:203:ASP:OD2	1:4:331:ASN:ND2	2.45	0.49
1:4:233:LEU:HD22	1:4:237:GLU:HB3	1.93	0.49
1:6:233:LEU:HD22	1:6:237:GLU:HB3	1.93	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:7:256:TYR:CD1	1:7:257:ILE:HG23	2.47	0.49
1:8:256:TYR:CD1	1:8:257:ILE:HG23	2.47	0.49
1:D:410:ARG:NH2	1:D:434:PRO:HD2	2.26	0.49
1:J:252:ASN:O	1:J:253:GLU:HG3	2.13	0.49
1:L:256:TYR:CD1	1:L:257:ILE:HG23	2.47	0.49
1:N:119:LYS:HG3	1:N:120:ARG:HG2	1.94	0.49
1:N:128:VAL:HG21	1:N:448:ILE:HD11	1.93	0.49
1:O:375:ASN:HB2	1:O:376:PRO:HD2	1.93	0.49
1:P:128:VAL:HG21	1:P:448:ILE:HD11	1.93	0.49
1:P:504:ILE:HD13	1:Q:202:LEU:HD21	1.93	0.49
1:Q:45:GLY:N	1:S:229:ASP:OD1	2.33	0.49
1:Q:375:ASN:HB2	1:Q:376:PRO:HD2	1.93	0.49
1:S:256:TYR:CD1	1:S:257:ILE:HG23	2.47	0.49
1:U:45:GLY:N	1:e:229:ASP:OD1	2.33	0.49
1:X:128:VAL:HG21	1:X:448:ILE:HD11	1.93	0.49
1:X:202:LEU:HD21	1:f:504:ILE:HD13	1.93	0.49
1:Y:252:ASN:O	1:Y:253:GLU:HG3	2.13	0.49
1:c:254:ARG:HD2	1:c:536:THR:O	2.11	0.49
1:e:119:LYS:HG3	1:e:120:ARG:HG2	1.94	0.49
1:h:263:PHE:HB2	1:h:293:LYS:HD2	1.93	0.49
1:i:119:LYS:HG3	1:i:120:ARG:HG2	1.94	0.49
1:i:128:VAL:HG21	1:i:448:ILE:HD11	1.93	0.49
1:j:504:ILE:HD13	1:x:202:LEU:HD21	1.93	0.49
1:q:101:GLN:OE1	1:q:176:VAL:HG11	2.12	0.49
1:q:203:ASP:OD2	1:q:331:ASN:ND2	2.45	0.49
1:r:101:GLN:OE1	1:r:176:VAL:HG11	2.12	0.49
1:s:203:ASP:OD2	1:s:331:ASN:ND2	2.45	0.49
1:y:256:TYR:CD1	1:y:257:ILE:HG23	2.47	0.49
1:y:375:ASN:HB2	1:y:376:PRO:HD2	1.93	0.49
1:y:410:ARG:NH2	1:y:434:PRO:HD2	2.26	0.49
1:z:256:TYR:CD1	1:z:257:ILE:HG23	2.47	0.49
1:2:252:ASN:O	1:2:253:GLU:HG3	2.13	0.49
1:3:128:VAL:HG21	1:3:448:ILE:HD11	1.93	0.49
1:6:375:ASN:HB2	1:6:376:PRO:HD2	1.93	0.49
1:B:203:ASP:OD2	1:B:331:ASN:ND2	2.45	0.49
1:B:252:ASN:O	1:B:253:GLU:HG3	2.13	0.49
1:C:203:ASP:OD2	1:C:331:ASN:ND2	2.45	0.49
1:C:263:PHE:HB2	1:C:293:LYS:HD2	1.93	0.49
1:E:252:ASN:O	1:E:253:GLU:HG3	2.13	0.49
1:E:256:TYR:CD1	1:E:257:ILE:HG23	2.47	0.49
1:F:256:TYR:CD1	1:F:257:ILE:HG23	2.47	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:375:ASN:HB2	1:F:376:PRO:HD2	1.93	0.49
1:G:203:ASP:OD2	1:G:331:ASN:ND2	2.45	0.49
1:G:263:PHE:HB2	1:G:293:LYS:HD2	1.93	0.49
1:J:233:LEU:HD22	1:J:237:GLU:HB3	1.93	0.49
1:K:252:ASN:O	1:K:253:GLU:HG3	2.13	0.49
1:M:263:PHE:HB2	1:M:293:LYS:HD2	1.93	0.49
1:V:101:GLN:OE1	1:V:176:VAL:HG11	2.12	0.49
1:V:203:ASP:OD2	1:V:331:ASN:ND2	2.45	0.49
1:V:254:ARG:HD2	1:V:536:THR:O	2.11	0.49
1:a:203:ASP:OD2	1:a:331:ASN:ND2	2.45	0.49
1:b:203:ASP:OD2	1:b:331:ASN:ND2	2.45	0.49
1:c:119:LYS:HG3	1:c:120:ARG:HG2	1.94	0.49
1:d:375:ASN:HB2	1:d:376:PRO:HD2	1.93	0.49
1:f:233:LEU:HD22	1:f:237:GLU:HB3	1.93	0.49
1:g:203:ASP:OD2	1:g:331:ASN:ND2	2.45	0.49
1:h:119:LYS:HG3	1:h:120:ARG:HG2	1.94	0.49
1:n:119:LYS:HG3	1:n:120:ARG:HG2	1.94	0.49
1:n:375:ASN:HB2	1:n:376:PRO:HD2	1.93	0.49
1:o:128:VAL:HG21	1:o:448:ILE:HD11	1.93	0.49
1:r:229:ASP:OD1	1:x:45:GLY:N	2.33	0.49
1:r:256:TYR:CD1	1:r:257:ILE:HG23	2.47	0.49
1:s:119:LYS:HG3	1:s:120:ARG:HG2	1.94	0.49
1:t:263:PHE:HB2	1:t:293:LYS:HD2	1.93	0.49
1:w:256:TYR:CD1	1:w:257:ILE:HG23	2.47	0.49
1:x:375:ASN:HB2	1:x:376:PRO:HD2	1.93	0.49
1:1:252:ASN:O	1:1:253:GLU:HG3	2.13	0.49
1:2:410:ARG:NH2	1:2:434:PRO:HD2	2.26	0.49
1:5:263:PHE:HB2	1:5:293:LYS:HD2	1.93	0.49
1:7:252:ASN:O	1:7:253:GLU:HG3	2.13	0.49
1:A:128:VAL:HG21	1:A:448:ILE:HD11	1.93	0.49
1:A:263:PHE:HB2	1:A:293:LYS:HD2	1.93	0.49
1:C:252:ASN:O	1:C:253:GLU:HG3	2.13	0.49
1:D:256:TYR:CD1	1:D:257:ILE:HG23	2.48	0.49
1:H:101:GLN:OE1	1:H:176:VAL:HG11	2.12	0.49
1:H:119:LYS:HG3	1:H:120:ARG:HG2	1.94	0.49
1:H:233:LEU:HD22	1:H:237:GLU:HB3	1.93	0.49
1:I:256:TYR:CD1	1:I:257:ILE:HG23	2.47	0.49
1:K:101:GLN:OE1	1:K:176:VAL:HG11	2.12	0.49
1:L:252:ASN:O	1:L:253:GLU:HG3	2.13	0.49
1:M:119:LYS:HG3	1:M:120:ARG:HG2	1.94	0.49
1:M:256:TYR:CD1	1:M:257:ILE:HG23	2.47	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:R:101:GLN:OE1	1:R:176:VAL:HG11	2.12	0.49
1:U:119:LYS:HG3	1:U:120:ARG:HG2	1.94	0.49
1:X:252:ASN:O	1:X:253:GLU:HG3	2.13	0.49
1:b:233:LEU:HD22	1:b:237:GLU:HB3	1.93	0.49
1:c:128:VAL:HG21	1:c:448:ILE:HD11	1.93	0.49
1:d:119:LYS:HG3	1:d:120:ARG:HG2	1.94	0.49
1:d:256:TYR:CD1	1:d:257:ILE:HG23	2.47	0.49
1:e:128:VAL:HG21	1:e:448:ILE:HD11	1.93	0.49
1:h:256:TYR:CD1	1:h:257:ILE:HG23	2.48	0.49
1:j:256:TYR:CD1	1:j:257:ILE:HG23	2.47	0.49
1:l:375:ASN:HB2	1:l:376:PRO:HD2	1.93	0.49
1:n:256:TYR:CD1	1:n:257:ILE:HG23	2.47	0.49
1:o:252:ASN:O	1:o:253:GLU:HG3	2.13	0.49
1:t:203:ASP:OD2	1:t:331:ASN:ND2	2.45	0.49
1:v:128:VAL:HG21	1:v:448:ILE:HD11	1.93	0.49
1:v:263:PHE:HB2	1:v:293:LYS:HD2	1.93	0.49
1:w:252:ASN:O	1:w:253:GLU:HG3	2.13	0.49
1:z:252:ASN:O	1:z:253:GLU:HG3	2.13	0.49
1:3:203:ASP:OD2	1:3:331:ASN:ND2	2.45	0.49
1:4:119:LYS:HG3	1:4:120:ARG:HG2	1.94	0.49
1:4:252:ASN:O	1:4:253:GLU:HG3	2.13	0.49
1:5:119:LYS:HG3	1:5:120:ARG:HG2	1.94	0.49
1:5:233:LEU:HD22	1:5:237:GLU:HB3	1.93	0.49
1:5:256:TYR:CD1	1:5:257:ILE:HG23	2.47	0.49
1:5:375:ASN:HB2	1:5:376:PRO:HD2	1.93	0.49
1:A:203:ASP:OD2	1:A:331:ASN:ND2	2.45	0.49
1:H:256:TYR:CD1	1:H:257:ILE:HG23	2.47	0.49
1:I:375:ASN:HB2	1:I:376:PRO:HD2	1.93	0.49
1:J:119:LYS:HG3	1:J:120:ARG:HG2	1.94	0.49
1:J:360:TYR:HB3	1:J:365:ASP:HB2	1.95	0.49
1:K:119:LYS:HG3	1:K:120:ARG:HG2	1.94	0.49
1:M:360:TYR:HB3	1:M:365:ASP:HB2	1.95	0.49
1:N:256:TYR:CD1	1:N:257:ILE:HG23	2.47	0.49
1:O:203:ASP:OD2	1:O:331:ASN:ND2	2.45	0.49
1:P:256:TYR:CD1	1:P:257:ILE:HG23	2.47	0.49
1:S:360:TYR:HB3	1:S:365:ASP:HB2	1.95	0.49
1:T:101:GLN:OE1	1:T:176:VAL:HG11	2.12	0.49
1:T:360:TYR:HB3	1:T:365:ASP:HB2	1.95	0.49
1:Y:254:ARG:HD2	1:Y:536:THR:O	2.12	0.49
1:Z:67:GLN:NE2	1:Z:189:GLN:HB2	2.26	0.49
1:Z:375:ASN:HB2	1:Z:376:PRO:HD2	1.93	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:e:254:ARG:HD2	1:e:536:THR:O	2.11	0.49
1:g:252:ASN:O	1:g:253:GLU:HG3	2.13	0.49
1:i:256:TYR:CD1	1:i:257:ILE:HG23	2.47	0.49
1:l:203:ASP:OD2	1:l:331:ASN:ND2	2.45	0.49
1:m:101:GLN:OE1	1:m:176:VAL:HG11	2.12	0.49
1:m:256:TYR:CD1	1:m:257:ILE:HG23	2.47	0.49
1:p:101:GLN:OE1	1:p:176:VAL:HG11	2.12	0.49
1:q:263:PHE:HB2	1:q:293:LYS:HD2	1.93	0.49
1:r:360:TYR:HB3	1:r:365:ASP:HB2	1.95	0.49
1:s:263:PHE:HB2	1:s:293:LYS:HD2	1.93	0.49
1:u:119:LYS:HG3	1:u:120:ARG:HG2	1.94	0.49
1:u:256:TYR:CD1	1:u:257:ILE:HG23	2.47	0.49
1:u:375:ASN:HB2	1:u:376:PRO:HD2	1.93	0.49
1:v:203:ASP:OD2	1:v:331:ASN:ND2	2.45	0.49
1:2:119:LYS:HG3	1:2:120:ARG:HG2	1.94	0.49
1:2:360:TYR:HB3	1:2:365:ASP:HB2	1.95	0.49
1:8:375:ASN:HB2	1:8:376:PRO:HD2	1.93	0.49
1:E:119:LYS:HG3	1:E:120:ARG:HG2	1.94	0.49
1:G:67:GLN:NE2	1:G:189:GLN:HB2	2.26	0.49
1:G:128:VAL:HG21	1:G:448:ILE:HD11	1.93	0.49
1:G:256:TYR:CD1	1:G:257:ILE:HG23	2.47	0.49
1:H:375:ASN:HB2	1:H:376:PRO:HD2	1.93	0.49
1:I:119:LYS:HG3	1:I:120:ARG:HG2	1.94	0.49
1:I:233:LEU:HD22	1:I:237:GLU:HB3	1.93	0.49
1:N:252:ASN:O	1:N:253:GLU:HG3	2.13	0.49
1:R:85:LYS:HE2	1:U:292:SER:CB	2.41	0.49
1:S:250:VAL:HG11	1:S:413:ILE:HD11	1.95	0.49
1:T:256:TYR:CD1	1:T:257:ILE:HG23	2.47	0.49
1:U:263:PHE:HB2	1:U:293:LYS:HD2	1.93	0.49
1:V:252:ASN:O	1:V:253:GLU:HG3	2.13	0.49
1:W:250:VAL:HG11	1:W:413:ILE:HD11	1.95	0.49
1:X:360:TYR:HB3	1:X:365:ASP:HB2	1.95	0.49
1:e:203:ASP:OD2	1:e:331:ASN:ND2	2.45	0.49
1:i:252:ASN:O	1:i:253:GLU:HG3	2.13	0.49
1:k:202:LEU:HD21	1:w:504:ILE:HD13	1.93	0.49
1:k:256:TYR:CD1	1:k:257:ILE:HG23	2.48	0.49
1:k:375:ASN:HB2	1:k:376:PRO:HD2	1.93	0.49
1:m:360:TYR:HB3	1:m:365:ASP:HB2	1.95	0.49
1:o:360:TYR:HB3	1:o:365:ASP:HB2	1.95	0.49
1:p:252:ASN:O	1:p:253:GLU:HG3	2.13	0.49
1:r:250:VAL:HG11	1:r:413:ILE:HD11	1.95	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:t:128:VAL:HG21	1:t:448:ILE:HD11	1.93	0.49
1:u:229:ASP:OD1	1:5:45:GLY:N	2.33	0.49
1:u:233:LEU:HD22	1:u:237:GLU:HB3	1.93	0.49
1:1:81:ASN:O	1:1:313:THR:OG1	2.31	0.49
1:2:233:LEU:HD22	1:2:237:GLU:HB3	1.93	0.49
1:4:254:ARG:HD2	1:4:536:THR:O	2.11	0.49
1:5:101:GLN:OE1	1:5:176:VAL:HG11	2.12	0.49
1:5:252:ASN:O	1:5:253:GLU:HG3	2.13	0.49
1:6:250:VAL:HG11	1:6:413:ILE:HD11	1.95	0.49
1:8:67:GLN:NE2	1:8:189:GLN:HB2	2.26	0.49
1:B:81:ASN:O	1:B:313:THR:OG1	2.31	0.49
1:D:202:LEU:HD21	1:E:504:ILE:HD13	1.93	0.49
1:D:375:ASN:HB2	1:D:376:PRO:HD2	1.93	0.49
1:H:252:ASN:O	1:H:253:GLU:HG3	2.13	0.49
1:J:250:VAL:HG11	1:J:413:ILE:HD11	1.95	0.49
1:K:250:VAL:HG11	1:K:413:ILE:HD11	1.95	0.49
1:K:254:ARG:HD2	1:K:536:THR:O	2.11	0.49
1:O:252:ASN:O	1:O:253:GLU:HG3	2.13	0.49
1:P:119:LYS:HG3	1:P:120:ARG:HG2	1.94	0.49
1:R:256:TYR:CD1	1:R:257:ILE:HG23	2.47	0.49
1:R:263:PHE:HB2	1:R:293:LYS:HD2	1.93	0.49
1:a:101:GLN:OE1	1:a:176:VAL:HG11	2.12	0.49
1:c:203:ASP:OD2	1:c:331:ASN:ND2	2.45	0.49
1:c:360:TYR:HB3	1:c:365:ASP:HB2	1.95	0.49
1:f:252:ASN:O	1:f:253:GLU:HG3	2.13	0.49
1:h:252:ASN:O	1:h:253:GLU:HG3	2.13	0.49
1:h:360:TYR:HB3	1:h:365:ASP:HB2	1.95	0.49
1:j:119:LYS:HG3	1:j:120:ARG:HG2	1.94	0.49
1:q:85:LYS:HE2	1:s:292:SER:CB	2.41	0.49
1:q:252:ASN:O	1:q:253:GLU:HG3	2.13	0.49
1:q:256:TYR:CD1	1:q:257:ILE:HG23	2.47	0.49
1:t:256:TYR:CD1	1:t:257:ILE:HG23	2.47	0.49
1:w:119:LYS:HG3	1:w:120:ARG:HG2	1.94	0.49
1:2:250:VAL:HG11	1:2:413:ILE:HD11	1.95	0.49
1:3:306:GLY:O	1:3:355:TYR:OH	2.21	0.49
1:5:360:TYR:HB3	1:5:365:ASP:HB2	1.95	0.49
1:7:254:ARG:HD2	1:7:536:THR:O	2.12	0.49
1:A:250:VAL:HG11	1:A:413:ILE:HD11	1.95	0.49
1:G:250:VAL:HG11	1:G:413:ILE:HD11	1.95	0.49
1:H:360:TYR:HB3	1:H:365:ASP:HB2	1.95	0.49
1:O:233:LEU:HD22	1:O:237:GLU:HB3	1.93	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:O:360:TYR:HB3	1:O:365:ASP:HB2	1.95	0.49
1:R:119:LYS:HG3	1:R:120:ARG:HG2	1.94	0.49
1:R:252:ASN:O	1:R:253:GLU:HG3	2.13	0.49
1:S:76:ILE:HG12	1:S:88:ARG:CD	2.43	0.49
1:W:256:TYR:CD1	1:W:257:ILE:HG23	2.48	0.49
1:Z:263:PHE:HB2	1:Z:293:LYS:HD2	1.93	0.49
1:b:128:VAL:HG21	1:b:448:ILE:HD11	1.93	0.49
1:e:256:TYR:CD1	1:e:257:ILE:HG23	2.47	0.49
1:e:360:TYR:HB3	1:e:365:ASP:HB2	1.95	0.49
1:l:252:ASN:O	1:l:253:GLU:HG3	2.13	0.49
1:n:203:ASP:OD2	1:n:331:ASN:ND2	2.45	0.49
1:o:256:TYR:CD1	1:o:257:ILE:HG23	2.47	0.49
1:q:119:LYS:HG3	1:q:120:ARG:HG2	1.94	0.49
1:t:250:VAL:HG11	1:t:413:ILE:HD11	1.95	0.49
1:u:101:GLN:OE1	1:u:176:VAL:HG11	2.12	0.49
1:v:233:LEU:HD22	1:v:237:GLU:HB3	1.93	0.49
1:v:250:VAL:HG11	1:v:413:ILE:HD11	1.95	0.49
1:x:119:LYS:HG3	1:x:120:ARG:HG2	1.94	0.49
1:3:250:VAL:HG11	1:3:413:ILE:HD11	1.95	0.49
1:4:250:VAL:HG11	1:4:413:ILE:HD11	1.95	0.49
1:6:256:TYR:CD1	1:6:257:ILE:HG23	2.48	0.49
1:8:263:PHE:HB2	1:8:293:LYS:HD2	1.93	0.49
1:A:233:LEU:HD22	1:A:237:GLU:HB3	1.93	0.49
1:C:342:ASP:OD1	1:C:343:PRO:HA	2.13	0.49
1:M:252:ASN:O	1:M:253:GLU:HG3	2.13	0.49
1:N:101:GLN:OE1	1:N:176:VAL:HG11	2.12	0.49
1:N:263:PHE:HB2	1:N:293:LYS:HD2	1.93	0.49
1:U:410:ARG:O	1:U:535:LYS:NZ	2.38	0.49
1:W:76:ILE:HG12	1:W:88:ARG:CD	2.43	0.49
1:X:250:VAL:HG11	1:X:413:ILE:HD11	1.95	0.49
1:X:256:TYR:CD1	1:X:257:ILE:HG23	2.47	0.49
1:Y:410:ARG:HH22	1:Y:439:ILE:HA	1.78	0.49
1:a:250:VAL:HG11	1:a:413:ILE:HD11	1.95	0.49
1:b:250:VAL:HG11	1:b:413:ILE:HD11	1.95	0.49
1:b:252:ASN:O	1:b:253:GLU:HG3	2.13	0.49
1:d:203:ASP:OD2	1:d:331:ASN:ND2	2.45	0.49
1:e:252:ASN:O	1:e:253:GLU:HG3	2.13	0.49
1:f:128:VAL:HG21	1:f:448:ILE:HD11	1.93	0.49
1:f:250:VAL:HG11	1:f:413:ILE:HD11	1.95	0.49
1:g:342:ASP:OD1	1:g:343:PRO:HA	2.13	0.49
1:i:101:GLN:OE1	1:i:176:VAL:HG11	2.12	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:i:263:PHE:HB2	1:i:293:LYS:HD2	1.93	0.49
1:l:233:LEU:HD22	1:l:237:GLU:HB3	1.93	0.49
1:o:250:VAL:HG11	1:o:413:ILE:HD11	1.95	0.49
1:q:360:TYR:HB3	1:q:365:ASP:HB2	1.95	0.49
1:r:76:ILE:HG12	1:r:88:ARG:CD	2.43	0.49
1:t:101:GLN:OE1	1:t:176:VAL:HG11	2.12	0.49
1:1:76:ILE:HG12	1:1:88:ARG:CD	2.43	0.49
1:1:250:VAL:HG11	1:1:413:ILE:HD11	1.95	0.49
1:3:101:GLN:OE1	1:3:176:VAL:HG11	2.12	0.49
1:3:256:TYR:CD1	1:3:257:ILE:HG23	2.47	0.49
1:6:76:ILE:HG12	1:6:88:ARG:CD	2.43	0.49
1:7:360:TYR:HB3	1:7:365:ASP:HB2	1.95	0.49
1:B:76:ILE:HG12	1:B:88:ARG:CD	2.43	0.48
1:B:250:VAL:HG11	1:B:413:ILE:HD11	1.95	0.48
1:C:360:TYR:HB3	1:C:365:ASP:HB2	1.95	0.48
1:G:101:GLN:OE1	1:G:176:VAL:HG11	2.12	0.48
1:H:45:GLY:N	1:I:229:ASP:OD1	2.33	0.48
1:I:101:GLN:OE1	1:I:176:VAL:HG11	2.12	0.48
1:M:342:ASP:OD1	1:M:343:PRO:HA	2.14	0.48
1:P:360:TYR:HB3	1:P:365:ASP:HB2	1.95	0.48
1:Q:119:LYS:HG3	1:Q:120:ARG:HG2	1.94	0.48
1:R:410:ARG:HH22	1:R:439:ILE:HA	1.78	0.48
1:T:44:VAL:CG2	1:T:57:LYS:HD2	2.44	0.48
1:U:252:ASN:O	1:U:253:GLU:HG3	2.13	0.48
1:V:360:TYR:HB3	1:V:365:ASP:HB2	1.95	0.48
1:W:252:ASN:O	1:W:253:GLU:HG3	2.13	0.48
1:Y:360:TYR:HB3	1:Y:365:ASP:HB2	1.95	0.48
1:a:256:TYR:CD1	1:a:257:ILE:HG23	2.47	0.48
1:b:76:ILE:HG12	1:b:88:ARG:CD	2.43	0.48
1:b:360:TYR:HB3	1:b:365:ASP:HB2	1.95	0.48
1:b:410:ARG:HH22	1:b:439:ILE:HA	1.78	0.48
1:c:256:TYR:CD1	1:c:257:ILE:HG23	2.47	0.48
1:f:76:ILE:HG12	1:f:88:ARG:CD	2.43	0.48
1:f:256:TYR:CD1	1:f:257:ILE:HG23	2.47	0.48
1:h:342:ASP:OD1	1:h:343:PRO:HA	2.14	0.48
1:l:101:GLN:OE1	1:l:176:VAL:HG11	2.12	0.48
1:l:202:LEU:HD21	1:n:504:ILE:HD13	1.93	0.48
1:l:360:TYR:HB3	1:l:365:ASP:HB2	1.95	0.48
1:p:360:TYR:HB3	1:p:365:ASP:HB2	1.95	0.48
1:q:410:ARG:HH22	1:q:439:ILE:HA	1.78	0.48
1:u:250:VAL:HG11	1:u:413:ILE:HD11	1.95	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:w:342:ASP:OD1	1:w:343:PRO:HA	2.14	0.48
1:2:67:GLN:NE2	1:2:189:GLN:HB2	2.26	0.48
1:4:256:TYR:CD1	1:4:257:ILE:HG23	2.47	0.48
1:5:410:ARG:HH22	1:5:439:ILE:HA	1.78	0.48
1:6:292:SER:CB	1:7:85:LYS:HE2	2.41	0.48
1:7:410:ARG:HH22	1:7:439:ILE:HA	1.78	0.48
1:A:360:TYR:HB3	1:A:365:ASP:HB2	1.95	0.48
1:A:410:ARG:HH22	1:A:439:ILE:HA	1.78	0.48
1:E:342:ASP:OD1	1:E:343:PRO:HA	2.14	0.48
1:F:81:ASN:O	1:F:313:THR:OG1	2.31	0.48
1:H:410:ARG:HH22	1:H:439:ILE:HA	1.78	0.48
1:K:256:TYR:CD1	1:K:257:ILE:HG23	2.47	0.48
1:O:101:GLN:OE1	1:O:176:VAL:HG11	2.12	0.48
1:R:360:TYR:HB3	1:R:365:ASP:HB2	1.95	0.48
1:S:535:LYS:NZ	1:U:427:ASP:OD2	2.29	0.48
1:X:410:ARG:HH22	1:X:439:ILE:HA	1.78	0.48
1:Y:250:VAL:HG11	1:Y:413:ILE:HD11	1.95	0.48
1:a:306:GLY:O	1:a:355:TYR:OH	2.21	0.48
1:b:256:TYR:CD1	1:b:257:ILE:HG23	2.47	0.48
1:c:252:ASN:O	1:c:253:GLU:HG3	2.13	0.48
1:f:360:TYR:HB3	1:f:365:ASP:HB2	1.95	0.48
1:g:360:TYR:HB3	1:g:365:ASP:HB2	1.95	0.48
1:j:360:TYR:HB3	1:j:365:ASP:HB2	1.95	0.48
1:k:252:ASN:O	1:k:253:GLU:HG3	2.13	0.48
1:m:44:VAL:CG2	1:m:57:LYS:HD2	2.44	0.48
1:n:252:ASN:O	1:n:253:GLU:HG3	2.13	0.48
1:o:410:ARG:HH22	1:o:439:ILE:HA	1.78	0.48
1:q:45:GLY:N	1:y:229:ASP:OD1	2.33	0.48
1:r:233:LEU:HD22	1:r:237:GLU:HB3	1.93	0.48
1:s:252:ASN:O	1:s:253:GLU:HG3	2.13	0.48
1:t:252:ASN:O	1:t:253:GLU:HG3	2.13	0.48
1:t:410:ARG:HH22	1:t:439:ILE:HA	1.78	0.48
1:u:263:PHE:HB2	1:u:293:LYS:HD2	1.93	0.48
1:v:360:TYR:HB3	1:v:365:ASP:HB2	1.95	0.48
1:3:252:ASN:O	1:3:253:GLU:HG3	2.13	0.48
1:5:76:ILE:HG12	1:5:88:ARG:CD	2.43	0.48
1:6:252:ASN:O	1:6:253:GLU:HG3	2.13	0.48
1:A:44:VAL:CG2	1:A:57:LYS:HD2	2.44	0.48
1:B:410:ARG:HH22	1:B:439:ILE:HA	1.78	0.48
1:C:202:LEU:HD21	1:D:504:ILE:HD13	1.93	0.48
1:D:252:ASN:O	1:D:253:GLU:HG3	2.13	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:410:ARG:HH22	1:G:439:ILE:HA	1.78	0.48
1:H:76:ILE:HG12	1:H:88:ARG:CD	2.43	0.48
1:I:81:ASN:O	1:I:313:THR:OG1	2.31	0.48
1:I:250:VAL:HG11	1:I:413:ILE:HD11	1.95	0.48
1:I:263:PHE:HB2	1:I:293:LYS:HD2	1.93	0.48
1:J:76:ILE:HG12	1:J:88:ARG:CD	2.43	0.48
1:Q:252:ASN:O	1:Q:253:GLU:HG3	2.13	0.48
1:W:292:SER:CB	1:Y:85:LYS:HE2	2.41	0.48
1:d:252:ASN:O	1:d:253:GLU:HG3	2.13	0.48
1:f:410:ARG:HH22	1:f:439:ILE:HA	1.79	0.48
1:i:76:ILE:HG12	1:i:88:ARG:CD	2.43	0.48
1:i:342:ASP:OD1	1:i:343:PRO:HA	2.14	0.48
1:p:81:ASN:O	1:p:313:THR:OG1	2.31	0.48
1:u:128:VAL:HG21	1:u:448:ILE:HD11	1.93	0.48
1:v:44:VAL:CG2	1:v:57:LYS:HD2	2.44	0.48
1:v:410:ARG:HH22	1:v:439:ILE:HA	1.78	0.48
1:x:252:ASN:O	1:x:253:GLU:HG3	2.13	0.48
1:y:81:ASN:O	1:y:313:THR:OG1	2.31	0.48
1:y:252:ASN:O	1:y:253:GLU:HG3	2.13	0.48
1:1:410:ARG:HH22	1:1:439:ILE:HA	1.78	0.48
1:2:76:ILE:HG12	1:2:88:ARG:CD	2.43	0.48
1:7:250:VAL:HG11	1:7:413:ILE:HD11	1.95	0.48
1:B:233:LEU:HD22	1:B:237:GLU:HB3	1.93	0.48
1:B:353:LEU:HD22	1:L:274:TYR:CG	2.49	0.48
1:C:81:ASN:O	1:C:313:THR:OG1	2.31	0.48
1:C:250:VAL:HG11	1:C:413:ILE:HD11	1.95	0.48
1:F:252:ASN:O	1:F:253:GLU:HG3	2.13	0.48
1:G:252:ASN:O	1:G:253:GLU:HG3	2.13	0.48
1:G:360:TYR:HB3	1:G:365:ASP:HB2	1.95	0.48
1:H:342:ASP:OD1	1:H:343:PRO:HA	2.14	0.48
1:I:128:VAL:HG21	1:I:448:ILE:HD11	1.93	0.48
1:J:67:GLN:NE2	1:J:189:GLN:HB2	2.26	0.48
1:J:342:ASP:OD1	1:J:343:PRO:HA	2.13	0.48
1:K:342:ASP:OD1	1:K:343:PRO:HA	2.14	0.48
1:N:76:ILE:HG12	1:N:88:ARG:CD	2.43	0.48
1:N:342:ASP:OD1	1:N:343:PRO:HA	2.14	0.48
1:P:252:ASN:O	1:P:253:GLU:HG3	2.13	0.48
1:P:263:PHE:HB2	1:P:293:LYS:HD2	1.93	0.48
1:P:410:ARG:HH22	1:P:439:ILE:HA	1.78	0.48
1:S:233:LEU:HD22	1:S:237:GLU:HB3	1.94	0.48
1:X:342:ASP:OD1	1:X:343:PRO:HA	2.14	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Y:306:GLY:O	1:Y:355:TYR:OH	2.21	0.48
1:a:252:ASN:O	1:a:253:GLU:HG3	2.13	0.48
1:t:360:TYR:HB3	1:t:365:ASP:HB2	1.95	0.48
1:u:76:ILE:HG12	1:u:88:ARG:CD	2.43	0.48
1:u:81:ASN:O	1:u:313:THR:OG1	2.31	0.48
1:y:119:LYS:HG3	1:y:120:ARG:HG2	1.94	0.48
1:z:274:TYR:CG	1:1:353:LEU:HD22	2.49	0.48
1:2:342:ASP:OD1	1:2:343:PRO:HA	2.13	0.48
1:4:342:ASP:OD1	1:4:343:PRO:HA	2.14	0.48
1:B:360:TYR:HB3	1:B:365:ASP:HB2	1.95	0.48
1:C:76:ILE:HG12	1:C:88:ARG:CD	2.43	0.48
1:H:44:VAL:CG2	1:H:57:LYS:HD2	2.44	0.48
1:I:76:ILE:HG12	1:I:88:ARG:CD	2.43	0.48
1:K:76:ILE:HG12	1:K:88:ARG:CD	2.43	0.48
1:N:233:LEU:HD22	1:N:237:GLU:HB3	1.93	0.48
1:R:76:ILE:HG12	1:R:88:ARG:CD	2.43	0.48
1:T:410:ARG:HH22	1:T:439:ILE:HA	1.78	0.48
1:V:81:ASN:O	1:V:313:THR:OG1	2.31	0.48
1:Z:250:VAL:HG11	1:Z:413:ILE:HD11	1.95	0.48
1:a:76:ILE:HG12	1:a:88:ARG:CD	2.43	0.48
1:d:342:ASP:OD1	1:d:343:PRO:HA	2.13	0.48
1:g:202:LEU:HD21	1:k:504:ILE:HD13	1.93	0.48
1:g:250:VAL:HG11	1:g:413:ILE:HD11	1.95	0.48
1:i:410:ARG:HH22	1:i:439:ILE:HA	1.78	0.48
1:j:252:ASN:O	1:j:253:GLU:HG3	2.13	0.48
1:j:410:ARG:HH22	1:j:439:ILE:HA	1.78	0.48
1:o:342:ASP:OD1	1:o:343:PRO:HA	2.14	0.48
1:r:44:VAL:CG2	1:r:57:LYS:HD2	2.44	0.48
1:t:81:ASN:O	1:t:313:THR:OG1	2.31	0.48
1:x:410:ARG:HH22	1:x:439:ILE:HA	1.78	0.48
1:z:360:TYR:HB3	1:z:365:ASP:HB2	1.95	0.48
1:4:306:GLY:O	1:4:355:TYR:OH	2.21	0.48
1:5:342:ASP:OD1	1:5:343:PRO:HA	2.14	0.48
1:8:250:VAL:HG11	1:8:413:ILE:HD11	1.95	0.48
1:8:252:ASN:O	1:8:253:GLU:HG3	2.13	0.48
1:B:44:VAL:CG2	1:B:57:LYS:HD2	2.44	0.48
1:F:119:LYS:HG3	1:F:120:ARG:HG2	1.94	0.48
1:F:410:ARG:HH22	1:F:439:ILE:HA	1.78	0.48
1:G:81:ASN:O	1:G:313:THR:OG1	2.31	0.48
1:K:306:GLY:O	1:K:355:TYR:OH	2.21	0.48
1:N:410:ARG:HH22	1:N:439:ILE:HA	1.78	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Q:410:ARG:HH22	1:Q:439:ILE:HA	1.78	0.48
1:R:250:VAL:HG11	1:R:413:ILE:HD11	1.95	0.48
1:T:119:LYS:HG3	1:T:120:ARG:HG2	1.94	0.48
1:T:342:ASP:OD1	1:T:343:PRO:HA	2.13	0.48
1:V:256:TYR:CD1	1:V:257:ILE:HG23	2.47	0.48
1:a:119:LYS:HG3	1:a:120:ARG:HG2	1.94	0.48
1:c:292:SER:CB	1:o:85:LYS:HE2	2.40	0.48
1:d:292:SER:CB	1:l:85:LYS:HE2	2.39	0.48
1:d:410:ARG:HH22	1:d:439:ILE:HA	1.78	0.48
1:e:250:VAL:HG11	1:e:413:ILE:HD11	1.95	0.48
1:g:76:ILE:HG12	1:g:88:ARG:CD	2.43	0.48
1:g:410:ARG:HH22	1:g:439:ILE:HA	1.78	0.48
1:j:263:PHE:HB2	1:j:293:LYS:HD2	1.93	0.48
1:k:342:ASP:OD1	1:k:343:PRO:HA	2.13	0.48
1:k:360:TYR:HB3	1:k:365:ASP:HB2	1.95	0.48
1:m:342:ASP:OD1	1:m:343:PRO:HA	2.14	0.48
1:n:342:ASP:OD1	1:n:343:PRO:HA	2.14	0.48
1:q:76:ILE:HG12	1:q:88:ARG:CD	2.43	0.48
1:q:250:VAL:HG11	1:q:413:ILE:HD11	1.95	0.48
1:r:252:ASN:O	1:r:253:GLU:HG3	2.13	0.48
1:x:250:VAL:HG11	1:x:413:ILE:HD11	1.95	0.48
1:x:256:TYR:CD1	1:x:257:ILE:HG23	2.47	0.48
1:x:342:ASP:OD1	1:x:343:PRO:HA	2.13	0.48
1:y:233:LEU:HD22	1:y:237:GLU:HB3	1.93	0.48
1:y:410:ARG:HH22	1:y:439:ILE:HA	1.78	0.48
1:1:233:LEU:HD22	1:1:237:GLU:HB3	1.93	0.48
1:3:76:ILE:HG12	1:3:88:ARG:CD	2.43	0.48
1:4:76:ILE:HG12	1:4:88:ARG:CD	2.43	0.48
1:5:44:VAL:CG2	1:5:57:LYS:HD2	2.44	0.48
1:8:360:TYR:HB3	1:8:365:ASP:HB2	1.95	0.48
1:C:229:ASP:OD1	1:D:45:GLY:N	2.32	0.48
1:C:353:LEU:HD22	1:M:274:TYR:CG	2.49	0.48
1:D:342:ASP:OD1	1:D:343:PRO:HA	2.13	0.48
1:D:360:TYR:HB3	1:D:365:ASP:HB2	1.95	0.48
1:L:360:TYR:HB3	1:L:365:ASP:HB2	1.95	0.48
1:N:44:VAL:CG2	1:N:57:LYS:HD2	2.44	0.48
1:O:229:ASP:OD1	1:d:45:GLY:N	2.30	0.48
1:Q:250:VAL:HG11	1:Q:413:ILE:HD11	1.95	0.48
1:Q:256:TYR:CD1	1:Q:257:ILE:HG23	2.47	0.48
1:Q:342:ASP:OD1	1:Q:343:PRO:HA	2.13	0.48
1:R:342:ASP:OD1	1:R:343:PRO:HA	2.13	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:S:44:VAL:CG2	1:S:57:LYS:HD2	2.44	0.48
1:T:250:VAL:HG11	1:T:413:ILE:HD11	1.95	0.48
1:V:342:ASP:OD1	1:V:343:PRO:HA	2.13	0.48
1:Z:252:ASN:O	1:Z:253:GLU:HG3	2.13	0.48
1:Z:360:TYR:HB3	1:Z:365:ASP:HB2	1.95	0.48
1:d:360:TYR:HB3	1:d:365:ASP:HB2	1.95	0.48
1:f:342:ASP:OD1	1:f:343:PRO:HA	2.13	0.48
1:g:353:LEU:HD22	1:h:274:TYR:CG	2.49	0.48
1:i:67:GLN:NE2	1:i:189:GLN:HB2	2.26	0.48
1:l:250:VAL:HG11	1:l:413:ILE:HD11	1.95	0.48
1:m:76:ILE:HG12	1:m:88:ARG:CD	2.43	0.48
1:m:410:ARG:HH22	1:m:439:ILE:HA	1.78	0.48
1:p:256:TYR:CD1	1:p:257:ILE:HG23	2.47	0.48
1:q:342:ASP:OD1	1:q:343:PRO:HA	2.14	0.48
1:s:76:ILE:HG12	1:s:88:ARG:CD	2.43	0.48
1:w:535:LYS:NZ	1:x:427:ASP:OD2	2.28	0.48
1:1:44:VAL:CG2	1:1:57:LYS:HD2	2.44	0.48
1:1:360:TYR:HB3	1:1:365:ASP:HB2	1.95	0.48
1:6:410:ARG:HH22	1:6:439:ILE:HA	1.78	0.48
1:A:252:ASN:O	1:A:253:GLU:HG3	2.13	0.48
1:C:410:ARG:HH22	1:C:439:ILE:HA	1.78	0.48
1:E:44:VAL:CG2	1:E:57:LYS:HD2	2.44	0.48
1:E:410:ARG:HH22	1:E:439:ILE:HA	1.78	0.48
1:F:233:LEU:HD22	1:F:237:GLU:HB3	1.93	0.48
1:F:353:LEU:HD22	1:Q:274:TYR:CG	2.49	0.48
1:G:342:ASP:OD1	1:G:343:PRO:HA	2.14	0.48
1:S:252:ASN:O	1:S:253:GLU:HG3	2.13	0.48
1:T:76:ILE:HG12	1:T:88:ARG:CD	2.43	0.48
1:T:252:ASN:O	1:T:253:GLU:HG3	2.13	0.48
1:T:292:SER:CB	1:d:85:LYS:HE2	2.38	0.48
1:U:76:ILE:HG12	1:U:88:ARG:CD	2.43	0.48
1:V:76:ILE:HG12	1:V:88:ARG:CD	2.43	0.48
1:V:353:LEU:HD22	1:X:274:TYR:CG	2.49	0.48
1:W:410:ARG:HH22	1:W:439:ILE:HA	1.78	0.48
1:b:342:ASP:OD1	1:b:343:PRO:HA	2.13	0.48
1:c:85:LYS:HE2	1:p:292:SER:CB	2.40	0.48
1:c:250:VAL:HG11	1:c:413:ILE:HD11	1.95	0.48
1:c:410:ARG:HH22	1:c:439:ILE:HA	1.78	0.48
1:d:44:VAL:CG2	1:d:57:LYS:HD2	2.43	0.48
1:d:272:VAL:HG22	1:l:360:TYR:CE2	2.49	0.48
1:e:45:GLY:N	1:h:229:ASP:OD1	2.32	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:e:410:ARG:HH22	1:e:439:ILE:HA	1.78	0.48
1:i:44:VAL:CG2	1:i:57:LYS:HD2	2.44	0.48
1:i:233:LEU:HD22	1:i:237:GLU:HB3	1.93	0.48
1:m:252:ASN:O	1:m:253:GLU:HG3	2.13	0.48
1:n:410:ARG:HH22	1:n:439:ILE:HA	1.78	0.48
1:q:292:SER:CB	1:r:85:LYS:HE2	2.41	0.48
1:t:342:ASP:OD1	1:t:343:PRO:HA	2.14	0.48
1:v:252:ASN:O	1:v:253:GLU:HG3	2.13	0.48
1:x:44:VAL:CG2	1:x:57:LYS:HD2	2.44	0.48
1:x:76:ILE:HG12	1:x:88:ARG:CD	2.43	0.48
1:z:342:ASP:OD1	1:z:343:PRO:HA	2.14	0.48
1:3:119:LYS:HG3	1:3:120:ARG:HG2	1.94	0.48
1:3:360:TYR:HB3	1:3:365:ASP:HB2	1.95	0.48
1:6:81:ASN:O	1:6:313:THR:OG1	2.31	0.48
1:8:342:ASP:OD1	1:8:343:PRO:HA	2.14	0.48
1:8:410:ARG:HH22	1:8:439:ILE:HA	1.78	0.48
1:B:272:VAL:HG22	1:J:360:TYR:CE2	2.49	0.48
1:D:353:LEU:HD22	1:P:274:TYR:CG	2.49	0.48
1:E:76:ILE:HG12	1:E:88:ARG:CD	2.43	0.48
1:E:360:TYR:CE2	1:F:272:VAL:HG22	2.49	0.48
1:F:76:ILE:HG12	1:F:88:ARG:CD	2.43	0.48
1:G:76:ILE:HG12	1:G:88:ARG:CD	2.43	0.48
1:H:274:TYR:CG	1:W:353:LEU:HD22	2.49	0.48
1:I:252:ASN:O	1:I:253:GLU:HG3	2.13	0.48
1:L:342:ASP:OD1	1:L:343:PRO:HA	2.14	0.48
1:N:45:GLY:N	1:m:229:ASP:OD1	2.33	0.48
1:O:250:VAL:HG11	1:O:413:ILE:HD11	1.95	0.48
1:P:76:ILE:HG12	1:P:88:ARG:CD	2.43	0.48
1:Q:44:VAL:CG2	1:Q:57:LYS:HD2	2.44	0.48
1:Q:76:ILE:HG12	1:Q:88:ARG:CD	2.43	0.48
1:R:353:LEU:HD22	1:U:274:TYR:CG	2.49	0.48
1:U:250:VAL:HG11	1:U:413:ILE:HD11	1.95	0.48
1:W:81:ASN:O	1:W:313:THR:OG1	2.31	0.48
1:W:360:TYR:HB3	1:W:365:ASP:HB2	1.95	0.48
1:Z:342:ASP:OD1	1:Z:343:PRO:HA	2.14	0.48
1:a:360:TYR:HB3	1:a:365:ASP:HB2	1.95	0.48
1:c:272:VAL:HG22	1:o:360:TYR:CE2	2.49	0.48
1:e:76:ILE:HG12	1:e:88:ARG:CD	2.43	0.48
1:g:229:ASP:OD1	1:k:45:GLY:N	2.32	0.48
1:h:44:VAL:CG2	1:h:57:LYS:HD2	2.44	0.48
1:k:67:GLN:NE2	1:k:189:GLN:HB2	2.26	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:m:119:LYS:HG3	1:m:120:ARG:HG2	1.94	0.48
1:m:250:VAL:HG11	1:m:413:ILE:HD11	1.95	0.48
1:n:360:TYR:HB3	1:n:365:ASP:HB2	1.95	0.48
1:o:274:TYR:CG	1:p:353:LEU:HD22	2.49	0.48
1:p:76:ILE:HG12	1:p:88:ARG:CD	2.43	0.48
1:p:342:ASP:OD1	1:p:343:PRO:HA	2.13	0.48
1:u:67:GLN:NE2	1:u:189:GLN:HB2	2.26	0.48
1:w:44:VAL:CG2	1:w:57:LYS:HD2	2.44	0.48
1:w:360:TYR:CE2	1:y:272:VAL:HG22	2.49	0.48
1:w:410:ARG:HH22	1:w:439:ILE:HA	1.78	0.48
1:z:410:ARG:HH22	1:z:439:ILE:HA	1.78	0.48
1:1:272:VAL:HG22	1:2:360:TYR:CE2	2.49	0.48
1:5:274:TYR:CG	1:6:353:LEU:HD22	2.49	0.48
1:7:306:GLY:O	1:7:355:TYR:OH	2.21	0.48
1:A:76:ILE:HG12	1:A:88:ARG:CD	2.43	0.48
1:E:274:TYR:CG	1:Q:353:LEU:HD22	2.49	0.48
1:F:229:ASP:OD1	1:R:45:GLY:N	2.33	0.48
1:F:250:VAL:HG11	1:F:413:ILE:HD11	1.95	0.48
1:I:342:ASP:OD1	1:I:343:PRO:HA	2.13	0.48
1:L:410:ARG:HH22	1:L:439:ILE:HA	1.78	0.48
1:M:44:VAL:CG2	1:M:57:LYS:HD2	2.44	0.48
1:N:67:GLN:NE2	1:N:189:GLN:HB2	2.26	0.48
1:N:272:VAL:HG22	1:P:360:TYR:CE2	2.49	0.48
1:N:274:TYR:CG	1:P:353:LEU:HD22	2.49	0.48
1:Q:360:TYR:HB3	1:Q:365:ASP:HB2	1.95	0.48
1:T:229:ASP:OD1	1:i:45:GLY:N	2.32	0.48
1:V:292:SER:CB	1:e:85:LYS:HE2	2.40	0.48
1:Z:410:ARG:HH22	1:Z:439:ILE:HA	1.78	0.48
1:c:76:ILE:HG12	1:c:88:ARG:CD	2.43	0.48
1:d:431:ILE:HD11	1:l:428:LYS:HD2	1.96	0.48
1:e:342:ASP:OD1	1:e:343:PRO:HA	2.13	0.48
1:f:44:VAL:CG2	1:f:57:LYS:HD2	2.44	0.48
1:h:45:GLY:N	1:i:229:ASP:OD1	2.32	0.48
1:h:76:ILE:HG12	1:h:88:ARG:CD	2.43	0.48
1:i:274:TYR:CG	1:j:353:LEU:HD22	2.49	0.48
1:j:274:TYR:CG	1:k:353:LEU:HD22	2.49	0.48
1:j:342:ASP:OD1	1:j:343:PRO:HA	2.14	0.48
1:l:44:VAL:CG2	1:l:57:LYS:HD2	2.44	0.48
1:n:250:VAL:HG11	1:n:413:ILE:HD11	1.95	0.48
1:q:353:LEU:HD22	1:s:274:TYR:CG	2.49	0.48
1:s:250:VAL:HG11	1:s:413:ILE:HD11	1.95	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:t:76:ILE:HG12	1:t:88:ARG:CD	2.43	0.48
1:u:252:ASN:O	1:u:253:GLU:HG3	2.13	0.48
1:u:342:ASP:OD1	1:u:343:PRO:HA	2.13	0.48
1:v:76:ILE:HG12	1:v:88:ARG:CD	2.43	0.48
1:v:342:ASP:OD1	1:v:343:PRO:HA	2.13	0.48
1:w:76:ILE:HG12	1:w:88:ARG:CD	2.43	0.48
1:w:274:TYR:CG	1:x:353:LEU:HD22	2.49	0.48
1:x:274:TYR:CG	1:y:353:LEU:HD22	2.49	0.48
1:y:250:VAL:HG11	1:y:413:ILE:HD11	1.95	0.48
1:y:342:ASP:OD1	1:y:343:PRO:HA	2.13	0.48
1:2:44:VAL:CG2	1:2:57:LYS:HD2	2.44	0.48
1:4:410:ARG:HH22	1:4:439:ILE:HA	1.78	0.48
1:A:342:ASP:OD1	1:A:343:PRO:HA	2.13	0.47
1:D:250:VAL:HG11	1:D:413:ILE:HD11	1.95	0.47
1:F:342:ASP:OD1	1:F:343:PRO:HA	2.13	0.47
1:H:250:VAL:HG11	1:H:413:ILE:HD11	1.95	0.47
1:J:44:VAL:CG2	1:J:57:LYS:HD2	2.44	0.47
1:K:81:ASN:O	1:K:313:THR:OG1	2.31	0.47
1:K:410:ARG:HH22	1:K:439:ILE:HA	1.78	0.47
1:M:76:ILE:HG12	1:M:88:ARG:CD	2.43	0.47
1:O:76:ILE:HG12	1:O:88:ARG:CD	2.43	0.47
1:O:360:TYR:CE2	1:n:272:VAL:HG22	2.49	0.47
1:P:342:ASP:OD1	1:P:343:PRO:HA	2.14	0.47
1:R:274:TYR:CG	1:S:353:LEU:HD22	2.49	0.47
1:Z:360:TYR:CE2	1:3:272:VAL:HG22	2.49	0.47
1:a:44:VAL:CG2	1:a:57:LYS:HD2	2.44	0.47
1:a:272:VAL:HG22	1:8:360:TYR:CE2	2.49	0.47
1:b:44:VAL:CG2	1:b:57:LYS:HD2	2.44	0.47
1:e:81:ASN:O	1:e:313:THR:OG1	2.31	0.47
1:g:44:VAL:CG2	1:g:57:LYS:HD2	2.44	0.47
1:i:272:VAL:HG22	1:j:360:TYR:CE2	2.49	0.47
1:l:76:ILE:HG12	1:l:88:ARG:CD	2.43	0.47
1:n:44:VAL:CG2	1:n:57:LYS:HD2	2.44	0.47
1:t:353:LEU:HD22	1:v:274:TYR:CG	2.49	0.47
1:t:360:TYR:CE2	1:v:272:VAL:HG22	2.49	0.47
1:x:360:TYR:HB3	1:x:365:ASP:HB2	1.95	0.47
1:y:76:ILE:HG12	1:y:88:ARG:CD	2.43	0.47
1:z:353:LEU:HD22	1:2:274:TYR:CG	2.49	0.47
1:3:410:ARG:HH22	1:3:439:ILE:HA	1.78	0.47
1:5:250:VAL:HG11	1:5:413:ILE:HD11	1.95	0.47
1:6:274:TYR:CG	1:7:353:LEU:HD22	2.49	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:6:360:TYR:HB3	1:6:365:ASP:HB2	1.95	0.47
1:A:272:VAL:HG22	1:G:360:TYR:CE2	2.49	0.47
1:A:274:TYR:CG	1:G:353:LEU:HD22	2.50	0.47
1:C:44:VAL:CG2	1:C:57:LYS:HD2	2.44	0.47
1:D:67:GLN:NE2	1:D:189:GLN:HB2	2.26	0.47
1:E:535:LYS:NZ	1:Q:427:ASP:OD2	2.28	0.47
1:I:67:GLN:NE2	1:I:189:GLN:HB2	2.26	0.47
1:J:272:VAL:HG22	1:L:360:TYR:CE2	2.49	0.47
1:J:274:TYR:CG	1:L:353:LEU:HD22	2.49	0.47
1:K:274:TYR:CG	1:a:353:LEU:HD22	2.49	0.47
1:M:229:ASP:OD1	1:c:45:GLY:N	2.32	0.47
1:O:44:VAL:CG2	1:O:57:LYS:HD2	2.44	0.47
1:O:410:ARG:HH22	1:O:439:ILE:HA	1.78	0.47
1:R:81:ASN:O	1:R:313:THR:OG1	2.31	0.47
1:R:292:SER:CB	1:S:85:LYS:HE2	2.41	0.47
1:V:44:VAL:CG2	1:V:57:LYS:HD2	2.44	0.47
1:W:274:TYR:CG	1:Y:353:LEU:HD22	2.49	0.47
1:X:353:LEU:HD22	1:e:274:TYR:CG	2.49	0.47
1:Z:100:ASN:ND2	1:Z:420:TRP:O	2.47	0.47
1:Z:272:VAL:HG22	1:4:360:TYR:CE2	2.49	0.47
1:c:342:ASP:OD1	1:c:343:PRO:HA	2.13	0.47
1:d:256:TYR:CG	1:l:221:PRO:HG3	2.49	0.47
1:f:353:LEU:HD22	1:g:274:TYR:CG	2.49	0.47
1:g:67:GLN:NE2	1:g:189:GLN:HB2	2.26	0.47
1:i:250:VAL:HG11	1:i:413:ILE:HD11	1.95	0.47
1:i:353:LEU:HD22	1:k:274:TYR:CG	2.49	0.47
1:l:81:ASN:O	1:l:313:THR:OG1	2.31	0.47
1:n:229:ASP:OD1	1:r:45:GLY:N	2.33	0.47
1:q:272:VAL:HG22	1:r:360:TYR:CE2	2.49	0.47
1:q:274:TYR:CG	1:r:353:LEU:HD22	2.49	0.47
1:r:410:ARG:HH22	1:r:439:ILE:HA	1.78	0.47
1:z:410:ARG:O	1:z:535:LYS:NZ	2.38	0.47
1:3:44:VAL:CG2	1:3:57:LYS:HD2	2.44	0.47
1:7:76:ILE:HG12	1:7:88:ARG:CD	2.43	0.47
1:8:100:ASN:ND2	1:8:420:TRP:O	2.47	0.47
1:C:274:TYR:CG	1:b:353:LEU:HD22	2.49	0.47
1:D:44:VAL:CG2	1:D:57:LYS:HD2	2.44	0.47
1:D:85:LYS:HE2	1:P:292:SER:CB	2.41	0.47
1:D:272:VAL:HG22	1:N:360:TYR:CE2	2.50	0.47
1:D:274:TYR:CG	1:N:353:LEU:HD22	2.49	0.47
1:D:360:TYR:CE2	1:P:272:VAL:HG22	2.50	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:360:TYR:HB3	1:I:365:ASP:HB2	1.95	0.47
1:K:360:TYR:CE2	1:8:272:VAL:HG22	2.49	0.47
1:N:250:VAL:HG11	1:N:413:ILE:HD11	1.95	0.47
1:N:360:TYR:HB3	1:N:365:ASP:HB2	1.95	0.47
1:O:353:LEU:HD22	1:n:274:TYR:CG	2.50	0.47
1:R:272:VAL:HG22	1:S:360:TYR:CE2	2.49	0.47
1:S:274:TYR:CG	1:U:353:LEU:HD22	2.49	0.47
1:X:44:VAL:CG2	1:X:57:LYS:HD2	2.44	0.47
1:X:76:ILE:HG12	1:X:88:ARG:CD	2.43	0.47
1:X:81:ASN:O	1:X:313:THR:OG1	2.31	0.47
1:X:85:LYS:HE2	1:e:292:SER:CB	2.41	0.47
1:Y:76:ILE:HG12	1:Y:88:ARG:CD	2.43	0.47
1:a:410:ARG:HH22	1:a:439:ILE:HA	1.78	0.47
1:c:81:ASN:O	1:c:313:THR:OG1	2.31	0.47
1:d:250:VAL:HG11	1:d:413:ILE:HD11	1.95	0.47
1:h:81:ASN:O	1:h:313:THR:OG1	2.31	0.47
1:i:188:PHE:HD1	1:k:267:VAL:HG12	1.79	0.47
1:i:292:SER:CB	1:j:85:LYS:HE2	2.41	0.47
1:i:360:TYR:CE2	1:k:272:VAL:HG22	2.50	0.47
1:i:360:TYR:HB3	1:i:365:ASP:HB2	1.95	0.47
1:k:44:VAL:CG2	1:k:57:LYS:HD2	2.44	0.47
1:k:250:VAL:HG11	1:k:413:ILE:HD11	1.95	0.47
1:l:342:ASP:OD1	1:l:343:PRO:HA	2.13	0.47
1:o:44:VAL:CG2	1:o:57:LYS:HD2	2.44	0.47
1:o:76:ILE:HG12	1:o:88:ARG:CD	2.43	0.47
1:p:44:VAL:CG2	1:p:57:LYS:HD2	2.44	0.47
1:t:44:VAL:CG2	1:t:57:LYS:HD2	2.44	0.47
1:u:360:TYR:HB3	1:u:365:ASP:HB2	1.95	0.47
1:w:353:LEU:HD22	1:y:274:TYR:CG	2.49	0.47
1:z:360:TYR:CE2	1:2:272:VAL:HG22	2.49	0.47
1:1:342:ASP:OD1	1:1:343:PRO:HA	2.13	0.47
1:3:353:LEU:HD22	1:4:274:TYR:CG	2.49	0.47
1:4:81:ASN:O	1:4:313:THR:OG1	2.31	0.47
1:A:353:LEU:HD22	1:I:274:TYR:CG	2.49	0.47
1:A:360:TYR:CE2	1:I:272:VAL:HG22	2.49	0.47
1:B:342:ASP:OD1	1:B:343:PRO:HA	2.14	0.47
1:E:180:LEU:HD21	1:E:522:TYR:CE1	2.50	0.47
1:E:272:VAL:HG22	1:Q:360:TYR:CE2	2.49	0.47
1:F:360:TYR:HB3	1:F:365:ASP:HB2	1.95	0.47
1:I:44:VAL:CG2	1:I:57:LYS:HD2	2.44	0.47
1:J:180:LEU:HD21	1:J:522:TYR:CE1	2.50	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:45:GLY:N	1:N:229:ASP:OD1	2.32	0.47
1:M:250:VAL:HG11	1:M:413:ILE:HD11	1.95	0.47
1:O:81:ASN:O	1:O:313:THR:OG1	2.31	0.47
1:O:180:LEU:HD21	1:O:522:TYR:CE1	2.50	0.47
1:P:250:VAL:HG11	1:P:413:ILE:HD11	1.95	0.47
1:U:410:ARG:HH22	1:U:439:ILE:HA	1.78	0.47
1:V:360:TYR:CE2	1:X:272:VAL:HG22	2.49	0.47
1:W:342:ASP:OD1	1:W:343:PRO:HA	2.13	0.47
1:Z:353:LEU:HD22	1:3:274:TYR:CG	2.50	0.47
1:a:274:TYR:CG	1:8:353:LEU:HD22	2.50	0.47
1:a:342:ASP:OD1	1:a:343:PRO:HA	2.13	0.47
1:c:360:TYR:CE2	1:p:272:VAL:HG22	2.50	0.47
1:f:292:SER:CB	1:h:85:LYS:HE2	2.40	0.47
1:h:250:VAL:HG11	1:h:413:ILE:HD11	1.95	0.47
1:j:272:VAL:HG22	1:k:360:TYR:CE2	2.50	0.47
1:j:292:SER:CB	1:k:85:LYS:HE2	2.41	0.47
1:k:199:LEU:O	1:k:213:GLU:HG2	2.15	0.47
1:n:180:LEU:HD21	1:n:522:TYR:CE1	2.50	0.47
1:o:81:ASN:O	1:o:313:THR:OG1	2.31	0.47
1:o:272:VAL:HG22	1:p:360:TYR:CE2	2.49	0.47
1:r:274:TYR:CG	1:s:353:LEU:HD22	2.49	0.47
1:u:274:TYR:CG	1:v:353:LEU:HD22	2.49	0.47
1:y:360:TYR:HB3	1:y:365:ASP:HB2	1.95	0.47
1:z:229:ASP:OD1	1:4:45:GLY:N	2.33	0.47
1:2:180:LEU:HD21	1:2:522:TYR:CE1	2.50	0.47
1:3:81:ASN:O	1:3:313:THR:OG1	2.31	0.47
1:B:274:TYR:CG	1:J:353:LEU:HD22	2.49	0.47
1:C:67:GLN:NE2	1:C:189:GLN:HB2	2.26	0.47
1:D:199:LEU:O	1:D:213:GLU:HG2	2.15	0.47
1:E:353:LEU:HD22	1:F:274:TYR:CG	2.50	0.47
1:G:274:TYR:CG	1:I:353:LEU:HD22	2.49	0.47
1:K:360:TYR:HB3	1:K:365:ASP:HB2	1.95	0.47
1:O:274:TYR:CG	1:m:353:LEU:HD22	2.49	0.47
1:R:44:VAL:CG2	1:R:57:LYS:HD2	2.44	0.47
1:T:431:ILE:HD11	1:d:428:LYS:HD2	1.97	0.47
1:V:199:LEU:O	1:V:213:GLU:HG2	2.15	0.47
1:V:272:VAL:HG22	1:e:360:TYR:CE2	2.50	0.47
1:V:274:TYR:CG	1:e:353:LEU:HD22	2.49	0.47
1:X:67:GLN:NE2	1:X:189:GLN:HB2	2.26	0.47
1:Y:342:ASP:OD1	1:Y:343:PRO:HA	2.14	0.47
1:a:81:ASN:O	1:a:313:THR:OG1	2.31	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:d:180:LEU:HD21	1:d:522:TYR:CE1	2.50	0.47
1:e:44:VAL:CG2	1:e:57:LYS:HD2	2.44	0.47
1:j:250:VAL:HG11	1:j:413:ILE:HD11	1.95	0.47
1:l:180:LEU:HD21	1:l:522:TYR:CE1	2.50	0.47
1:l:410:ARG:HH22	1:l:439:ILE:HA	1.78	0.47
1:t:272:VAL:HG22	1:u:360:TYR:CE2	2.49	0.47
1:u:44:VAL:CG2	1:u:57:LYS:HD2	2.44	0.47
1:w:180:LEU:HD21	1:w:522:TYR:CE1	2.50	0.47
1:w:272:VAL:HG22	1:x:360:TYR:CE2	2.49	0.47
1:z:272:VAL:HG22	1:1:360:TYR:CE2	2.49	0.47
1:4:360:TYR:HB3	1:4:365:ASP:HB2	1.95	0.47
1:6:44:VAL:CG2	1:6:57:LYS:HD2	2.44	0.47
1:6:342:ASP:OD1	1:6:343:PRO:HA	2.13	0.47
1:B:360:TYR:CE2	1:L:272:VAL:HG22	2.49	0.47
1:D:180:LEU:HD21	1:D:522:TYR:CE1	2.50	0.47
1:G:272:VAL:HG22	1:I:360:TYR:CE2	2.49	0.47
1:H:86:SER:HB3	1:H:197:ASN:HD22	1.80	0.47
1:H:272:VAL:HG22	1:W:360:TYR:CE2	2.50	0.47
1:H:353:LEU:HD22	1:Y:274:TYR:CG	2.49	0.47
1:L:410:ARG:O	1:L:535:LYS:NZ	2.38	0.47
1:N:81:ASN:O	1:N:313:THR:OG1	2.31	0.47
1:N:292:SER:CB	1:P:85:LYS:HE2	2.41	0.47
1:O:342:ASP:OD1	1:O:343:PRO:HA	2.14	0.47
1:P:180:LEU:HD21	1:P:522:TYR:CE1	2.50	0.47
1:S:410:ARG:HH22	1:S:439:ILE:HA	1.78	0.47
1:T:353:LEU:HD22	1:l:274:TYR:CG	2.49	0.47
1:V:85:LYS:HE2	1:X:292:SER:CB	2.41	0.47
1:Y:86:SER:HB3	1:Y:197:ASN:HD22	1.80	0.47
1:Z:85:LYS:HE2	1:3:292:SER:CB	2.40	0.47
1:a:292:SER:CB	1:8:85:LYS:HE2	2.40	0.47
1:c:44:VAL:CG2	1:c:57:LYS:HD2	2.44	0.47
1:f:360:TYR:CE2	1:g:272:VAL:HG22	2.50	0.47
1:h:180:LEU:HD21	1:h:522:TYR:CE1	2.50	0.47
1:h:410:ARG:HH22	1:h:439:ILE:HA	1.78	0.47
1:j:180:LEU:HD21	1:j:522:TYR:CE1	2.50	0.47
1:j:199:LEU:O	1:j:213:GLU:HG2	2.15	0.47
1:k:81:ASN:O	1:k:313:THR:OG1	2.31	0.47
1:k:180:LEU:HD21	1:k:522:TYR:CE1	2.50	0.47
1:m:274:TYR:CG	1:n:353:LEU:HD22	2.49	0.47
1:o:67:GLN:NE2	1:o:189:GLN:HB2	2.26	0.47
1:p:199:LEU:O	1:p:213:GLU:HG2	2.15	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:q:180:LEU:HD21	1:q:522:TYR:CE1	2.50	0.47
1:s:410:ARG:HH22	1:s:439:ILE:HA	1.78	0.47
1:t:199:LEU:O	1:t:213:GLU:HG2	2.15	0.47
1:t:274:TYR:CG	1:u:353:LEU:HD22	2.49	0.47
1:u:272:VAL:HG22	1:v:360:TYR:CE2	2.49	0.47
1:w:360:TYR:HB3	1:w:365:ASP:HB2	1.95	0.47
1:z:85:LYS:HE2	1:2:292:SER:CB	2.41	0.47
1:1:274:TYR:CG	1:2:353:LEU:HD22	2.49	0.47
1:3:342:ASP:OD1	1:3:343:PRO:HA	2.13	0.47
1:7:86:SER:HB3	1:7:197:ASN:HD22	1.80	0.47
1:C:272:VAL:HG22	1:b:360:TYR:CE2	2.50	0.47
1:D:81:ASN:O	1:D:313:THR:OG1	2.31	0.47
1:D:410:ARG:HH22	1:D:439:ILE:HA	1.78	0.47
1:E:86:SER:HB3	1:E:197:ASN:HD22	1.80	0.47
1:E:360:TYR:HB3	1:E:365:ASP:HB2	1.95	0.47
1:F:199:LEU:O	1:F:213:GLU:HG2	2.15	0.47
1:G:95:THR:HB	1:G:187:LEU:HB3	1.97	0.47
1:G:199:LEU:O	1:G:213:GLU:HG2	2.15	0.47
1:H:199:LEU:O	1:H:213:GLU:HG2	2.15	0.47
1:H:360:TYR:CE2	1:Y:272:VAL:HG22	2.49	0.47
1:I:100:ASN:ND2	1:I:420:TRP:O	2.47	0.47
1:J:292:SER:CB	1:L:85:LYS:HE2	2.41	0.47
1:K:44:VAL:CG2	1:K:57:LYS:HD2	2.44	0.47
1:M:85:LYS:HE2	1:b:292:SER:CB	2.40	0.47
1:M:180:LEU:HD21	1:M:522:TYR:CE1	2.50	0.47
1:M:353:LEU:HD22	1:b:274:TYR:CG	2.50	0.47
1:M:410:ARG:HH22	1:M:439:ILE:HA	1.78	0.47
1:N:86:SER:HB3	1:N:197:ASN:HD22	1.80	0.47
1:P:44:VAL:CG2	1:P:57:LYS:HD2	2.44	0.47
1:P:199:LEU:O	1:P:213:GLU:HG2	2.15	0.47
1:Q:95:THR:HB	1:Q:187:LEU:HB3	1.97	0.47
1:R:180:LEU:HD21	1:R:522:TYR:CE1	2.50	0.47
1:S:342:ASP:OD1	1:S:343:PRO:HA	2.14	0.47
1:T:180:LEU:HD21	1:T:522:TYR:CE1	2.50	0.47
1:T:199:LEU:O	1:T:213:GLU:HG2	2.15	0.47
1:U:342:ASP:OD1	1:U:343:PRO:HA	2.13	0.47
1:U:360:TYR:HB3	1:U:365:ASP:HB2	1.95	0.47
1:V:410:ARG:HH22	1:V:439:ILE:HA	1.78	0.47
1:W:44:VAL:CG2	1:W:57:LYS:HD2	2.44	0.47
1:W:95:THR:HB	1:W:187:LEU:HB3	1.97	0.47
1:W:180:LEU:HD21	1:W:522:TYR:CE1	2.50	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Y:44:VAL:CG2	1:Y:57:LYS:HD2	2.44	0.47
1:Z:76:ILE:HG12	1:Z:88:ARG:CD	2.44	0.47
1:Z:199:LEU:O	1:Z:213:GLU:HG2	2.15	0.47
1:a:180:LEU:HD21	1:a:522:TYR:CE1	2.50	0.47
1:a:199:LEU:O	1:a:213:GLU:HG2	2.15	0.47
1:c:95:THR:HB	1:c:187:LEU:HB3	1.97	0.47
1:c:353:LEU:HD22	1:p:274:TYR:CG	2.49	0.47
1:d:86:SER:HB3	1:d:197:ASN:HD22	1.80	0.47
1:e:95:THR:HB	1:e:187:LEU:HB3	1.97	0.47
1:i:81:ASN:O	1:i:313:THR:OG1	2.31	0.47
1:i:86:SER:HB3	1:i:197:ASN:HD22	1.80	0.47
1:j:44:VAL:CG2	1:j:57:LYS:HD2	2.44	0.47
1:m:180:LEU:HD21	1:m:522:TYR:CE1	2.50	0.47
1:m:199:LEU:O	1:m:213:GLU:HG2	2.15	0.47
1:m:272:VAL:HG22	1:n:360:TYR:CE2	2.49	0.47
1:n:67:GLN:NE2	1:n:189:GLN:HB2	2.26	0.47
1:n:86:SER:HB3	1:n:197:ASN:HD22	1.80	0.47
1:o:292:SER:CB	1:p:85:LYS:HE2	2.41	0.47
1:p:229:ASP:OD1	1:6:45:GLY:N	2.32	0.47
1:p:410:ARG:HH22	1:p:439:ILE:HA	1.78	0.47
1:q:44:VAL:CG2	1:q:57:LYS:HD2	2.44	0.47
1:r:180:LEU:HD21	1:r:522:TYR:CE1	2.50	0.47
1:r:342:ASP:OD1	1:r:343:PRO:HA	2.14	0.47
1:s:360:TYR:HB3	1:s:365:ASP:HB2	1.95	0.47
1:t:95:THR:HB	1:t:187:LEU:HB3	1.97	0.47
1:u:199:LEU:O	1:u:213:GLU:HG2	2.15	0.47
1:x:95:THR:HB	1:x:187:LEU:HB3	1.97	0.47
1:y:199:LEU:O	1:y:213:GLU:HG2	2.15	0.47
1:z:250:VAL:HG11	1:z:413:ILE:HD11	1.95	0.47
1:2:410:ARG:HH22	1:2:439:ILE:HA	1.78	0.47
1:3:180:LEU:HD21	1:3:522:TYR:CE1	2.50	0.47
1:3:199:LEU:O	1:3:213:GLU:HG2	2.15	0.47
1:4:44:VAL:CG2	1:4:57:LYS:HD2	2.44	0.47
1:5:86:SER:HB3	1:5:197:ASN:HD22	1.80	0.47
1:5:199:LEU:O	1:5:213:GLU:HG2	2.15	0.47
1:5:272:VAL:HG22	1:6:360:TYR:CE2	2.50	0.47
1:5:353:LEU:HD22	1:7:274:TYR:CG	2.49	0.47
1:5:360:TYR:CE2	1:7:272:VAL:HG22	2.49	0.47
1:6:95:THR:HB	1:6:187:LEU:HB3	1.97	0.47
1:6:180:LEU:HD21	1:6:522:TYR:CE1	2.50	0.47
1:7:342:ASP:OD1	1:7:343:PRO:HA	2.14	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:8:199:LEU:O	1:8:213:GLU:HG2	2.15	0.47
1:A:95:THR:HB	1:A:187:LEU:HB3	1.97	0.47
1:E:250:VAL:HG11	1:E:413:ILE:HD11	1.95	0.47
1:I:180:LEU:HD21	1:I:522:TYR:CE1	2.50	0.47
1:I:199:LEU:O	1:I:213:GLU:HG2	2.15	0.47
1:J:410:ARG:HH22	1:J:439:ILE:HA	1.78	0.47
1:K:180:LEU:HD21	1:K:522:TYR:CE1	2.50	0.47
1:K:272:VAL:HG22	1:a:360:TYR:CE2	2.49	0.47
1:L:250:VAL:HG11	1:L:413:ILE:HD11	1.95	0.47
1:M:360:TYR:CE2	1:b:272:VAL:HG22	2.49	0.47
1:O:85:LYS:HE2	1:n:292:SER:CB	2.40	0.47
1:O:199:LEU:O	1:O:213:GLU:HG2	2.15	0.47
1:Q:199:LEU:O	1:Q:213:GLU:HG2	2.15	0.47
1:S:86:SER:HB3	1:S:197:ASN:HD22	1.80	0.47
1:S:180:LEU:HD21	1:S:522:TYR:CE1	2.50	0.47
1:S:199:LEU:O	1:S:213:GLU:HG2	2.15	0.47
1:T:86:SER:HB3	1:T:197:ASN:HD22	1.80	0.47
1:b:180:LEU:HD21	1:b:522:TYR:CE1	2.50	0.47
1:d:67:GLN:NE2	1:d:189:GLN:HB2	2.26	0.47
1:f:95:THR:HB	1:f:187:LEU:HB3	1.97	0.47
1:f:272:VAL:HG22	1:h:360:TYR:CE2	2.49	0.47
1:k:410:ARG:HH22	1:k:439:ILE:HA	1.78	0.47
1:r:86:SER:HB3	1:r:197:ASN:HD22	1.80	0.47
1:t:180:LEU:HD21	1:t:522:TYR:CE1	2.50	0.47
1:v:95:THR:HB	1:v:187:LEU:HB3	1.97	0.47
1:w:86:SER:HB3	1:w:197:ASN:HD22	1.80	0.47
1:w:250:VAL:HG11	1:w:413:ILE:HD11	1.95	0.47
1:x:199:LEU:O	1:x:213:GLU:HG2	2.15	0.47
1:3:188:PHE:HD1	1:4:267:VAL:HG12	1.79	0.47
1:4:180:LEU:HD21	1:4:522:TYR:CE1	2.50	0.47
1:6:272:VAL:HG22	1:7:360:TYR:CE2	2.50	0.47
1:7:44:VAL:CG2	1:7:57:LYS:HD2	2.44	0.47
1:8:76:ILE:HG12	1:8:88:ARG:CD	2.44	0.47
1:C:360:TYR:CE2	1:M:272:VAL:HG22	2.49	0.47
1:G:180:LEU:HD21	1:G:522:TYR:CE1	2.50	0.47
1:K:45:GLY:N	1:L:229:ASP:OD1	2.33	0.47
1:K:353:LEU:HD22	1:8:274:TYR:CG	2.49	0.47
1:L:44:VAL:CG2	1:L:57:LYS:HD2	2.44	0.47
1:L:76:ILE:HG12	1:L:88:ARG:CD	2.43	0.47
1:L:86:SER:HB3	1:L:197:ASN:HD22	1.80	0.47
1:M:67:GLN:NE2	1:M:189:GLN:HB2	2.26	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:95:THR:HB	1:M:187:LEU:HB3	1.97	0.47
1:P:81:ASN:O	1:P:313:THR:OG1	2.31	0.47
1:T:81:ASN:O	1:T:313:THR:OG1	2.30	0.47
1:V:180:LEU:HD21	1:V:522:TYR:CE1	2.50	0.47
1:W:272:VAL:HG22	1:Y:360:TYR:CE2	2.50	0.47
1:Z:44:VAL:CG2	1:Z:57:LYS:HD2	2.43	0.47
1:Z:86:SER:HB3	1:Z:197:ASN:HD22	1.80	0.47
1:c:274:TYR:CG	1:o:353:LEU:HD22	2.50	0.47
1:f:180:LEU:HD21	1:f:522:TYR:CE1	2.50	0.47
1:f:274:TYR:CG	1:h:353:LEU:HD22	2.50	0.47
1:g:360:TYR:CE2	1:h:272:VAL:HG22	2.49	0.47
1:h:95:THR:HB	1:h:187:LEU:HB3	1.97	0.47
1:i:180:LEU:HD21	1:i:522:TYR:CE1	2.50	0.47
1:j:81:ASN:O	1:j:313:THR:OG1	2.31	0.47
1:l:199:LEU:O	1:l:213:GLU:HG2	2.15	0.47
1:m:81:ASN:O	1:m:313:THR:OG1	2.31	0.47
1:p:180:LEU:HD21	1:p:522:TYR:CE1	2.50	0.47
1:p:250:VAL:HG11	1:p:413:ILE:HD11	1.95	0.47
1:q:360:TYR:CE2	1:s:272:VAL:HG22	2.49	0.47
1:r:199:LEU:O	1:r:213:GLU:HG2	2.15	0.47
1:u:100:ASN:ND2	1:u:420:TRP:O	2.47	0.47
1:u:180:LEU:HD21	1:u:522:TYR:CE1	2.50	0.47
1:u:410:ARG:HH22	1:u:439:ILE:HA	1.78	0.47
1:y:180:LEU:HD21	1:y:522:TYR:CE1	2.50	0.47
1:z:86:SER:HB3	1:z:197:ASN:HD22	1.80	0.47
1:1:86:SER:HB3	1:1:197:ASN:HD22	1.80	0.47
1:3:360:TYR:CE2	1:4:272:VAL:HG22	2.49	0.47
1:8:44:VAL:CG2	1:8:57:LYS:HD2	2.43	0.47
1:B:86:SER:HB3	1:B:197:ASN:HD22	1.80	0.47
1:B:95:THR:HB	1:B:187:LEU:HB3	1.97	0.47
1:B:180:LEU:HD21	1:B:522:TYR:CE1	2.50	0.47
1:D:86:SER:HB3	1:D:197:ASN:HD22	1.80	0.47
1:F:180:LEU:HD21	1:F:522:TYR:CE1	2.50	0.47
1:K:199:LEU:O	1:K:213:GLU:HG2	2.15	0.47
1:K:267:VAL:HG12	1:a:188:PHE:HD1	1.79	0.47
1:L:199:LEU:O	1:L:213:GLU:HG2	2.15	0.47
1:N:100:ASN:ND2	1:N:420:TRP:O	2.47	0.47
1:N:180:LEU:HD21	1:N:522:TYR:CE1	2.50	0.47
1:R:360:TYR:CE2	1:U:272:VAL:HG22	2.49	0.47
1:S:272:VAL:HG22	1:U:360:TYR:CE2	2.49	0.47
1:U:199:LEU:O	1:U:213:GLU:HG2	2.15	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:V:229:ASP:OD1	1:W:45:GLY:N	2.32	0.47
1:Z:274:TYR:CG	1:4:353:LEU:HD22	2.49	0.47
1:b:95:THR:HB	1:b:187:LEU:HB3	1.97	0.47
1:e:86:SER:HB3	1:e:197:ASN:HD22	1.80	0.47
1:i:85:LYS:HE2	1:k:292:SER:CB	2.41	0.47
1:i:199:LEU:O	1:i:213:GLU:HG2	2.15	0.47
1:m:86:SER:HB3	1:m:197:ASN:HD22	1.80	0.47
1:s:342:ASP:OD1	1:s:343:PRO:HA	2.14	0.47
1:u:292:SER:CB	1:v:85:LYS:HE2	2.40	0.47
1:v:180:LEU:HD21	1:v:522:TYR:CE1	2.50	0.47
1:v:229:ASP:OD1	1:1:45:GLY:N	2.33	0.47
1:y:95:THR:HB	1:y:187:LEU:HB3	1.97	0.47
1:z:76:ILE:HG12	1:z:88:ARG:CD	2.43	0.47
1:z:199:LEU:O	1:z:213:GLU:HG2	2.15	0.47
1:1:180:LEU:HD21	1:1:522:TYR:CE1	2.50	0.47
1:8:86:SER:HB3	1:8:197:ASN:HD22	1.80	0.47
1:A:180:LEU:HD21	1:A:522:TYR:CE1	2.50	0.46
1:B:199:LEU:O	1:B:213:GLU:HG2	2.15	0.46
1:D:76:ILE:HG12	1:D:88:ARG:CD	2.43	0.46
1:E:199:LEU:O	1:E:213:GLU:HG2	2.15	0.46
1:F:95:THR:HB	1:F:187:LEU:HB3	1.97	0.46
1:F:360:TYR:CE2	1:Q:272:VAL:HG22	2.50	0.46
1:G:306:GLY:O	1:G:355:TYR:OH	2.21	0.46
1:I:410:ARG:HH22	1:I:439:ILE:HA	1.78	0.46
1:L:180:LEU:HD21	1:L:522:TYR:CE1	2.50	0.46
1:M:199:LEU:O	1:M:213:GLU:HG2	2.15	0.46
1:N:199:LEU:O	1:N:213:GLU:HG2	2.15	0.46
1:V:250:VAL:HG11	1:V:413:ILE:HD11	1.95	0.46
1:X:180:LEU:HD21	1:X:522:TYR:CE1	2.50	0.46
1:Z:292:SER:CB	1:4:85:LYS:HE2	2.41	0.46
1:c:86:SER:HB3	1:c:197:ASN:HD22	1.80	0.46
1:d:274:TYR:CG	1:l:353:LEU:HD22	2.50	0.46
1:e:199:LEU:O	1:e:213:GLU:HG2	2.15	0.46
1:h:67:GLN:NE2	1:h:189:GLN:HB2	2.26	0.46
1:i:100:ASN:ND2	1:i:420:TRP:O	2.47	0.46
1:k:76:ILE:HG12	1:k:88:ARG:CD	2.43	0.46
1:k:86:SER:HB3	1:k:197:ASN:HD22	1.80	0.46
1:n:76:ILE:HG12	1:n:88:ARG:CD	2.43	0.46
1:s:199:LEU:O	1:s:213:GLU:HG2	2.15	0.46
1:v:199:LEU:O	1:v:213:GLU:HG2	2.15	0.46
1:w:199:LEU:O	1:w:213:GLU:HG2	2.15	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:z:180:LEU:HD21	1:z:522:TYR:CE1	2.50	0.46
1:1:95:THR:HB	1:1:187:LEU:HB3	1.97	0.46
1:1:199:LEU:O	1:1:213:GLU:HG2	2.15	0.46
1:4:199:LEU:O	1:4:213:GLU:HG2	2.15	0.46
1:A:199:LEU:O	1:A:213:GLU:HG2	2.15	0.46
1:J:86:SER:HB3	1:J:197:ASN:HD22	1.80	0.46
1:J:199:LEU:O	1:J:213:GLU:HG2	2.15	0.46
1:O:86:SER:HB3	1:O:197:ASN:HD22	1.80	0.46
1:T:360:TYR:CE2	1:l:272:VAL:HG22	2.49	0.46
1:U:100:ASN:ND2	1:U:420:TRP:O	2.47	0.46
1:U:180:LEU:HD21	1:U:522:TYR:CE1	2.50	0.46
1:W:199:LEU:O	1:W:213:GLU:HG2	2.15	0.46
1:Z:180:LEU:HD21	1:Z:522:TYR:CE1	2.50	0.46
1:Z:410:ARG:O	1:Z:535:LYS:NZ	2.38	0.46
1:a:95:THR:HB	1:a:187:LEU:HB3	1.97	0.46
1:b:86:SER:HB3	1:b:197:ASN:HD22	1.80	0.46
1:b:100:ASN:ND2	1:b:420:TRP:O	2.46	0.46
1:f:86:SER:HB3	1:f:197:ASN:HD22	1.80	0.46
1:h:199:LEU:O	1:h:213:GLU:HG2	2.15	0.46
1:j:76:ILE:HG12	1:j:88:ARG:CD	2.43	0.46
1:o:180:LEU:HD21	1:o:522:TYR:CE1	2.50	0.46
1:r:272:VAL:HG22	1:s:360:TYR:CE2	2.49	0.46
1:x:272:VAL:HG22	1:y:360:TYR:CE2	2.49	0.46
1:z:44:VAL:CG2	1:z:57:LYS:HD2	2.44	0.46
1:3:95:THR:HB	1:3:187:LEU:HB3	1.97	0.46
1:6:199:LEU:O	1:6:213:GLU:HG2	2.15	0.46
1:A:85:LYS:HE2	1:I:292:SER:CB	2.40	0.46
1:D:100:ASN:ND2	1:D:420:TRP:O	2.46	0.46
1:D:292:SER:CB	1:N:85:LYS:HE2	2.41	0.46
1:E:95:THR:HB	1:E:187:LEU:HB3	1.97	0.46
1:G:44:VAL:CG2	1:G:57:LYS:HD2	2.44	0.46
1:J:95:THR:HB	1:J:187:LEU:HB3	1.97	0.46
1:K:85:LYS:HE2	1:8:292:SER:CB	2.41	0.46
1:O:272:VAL:HG22	1:m:360:TYR:CE2	2.49	0.46
1:R:199:LEU:O	1:R:213:GLU:HG2	2.15	0.46
1:X:199:LEU:O	1:X:213:GLU:HG2	2.15	0.46
1:c:535:LYS:NZ	1:o:427:ASP:OD2	2.29	0.46
1:d:76:ILE:HG12	1:d:88:ARG:CD	2.43	0.46
1:o:45:GLY:N	1:7:229:ASP:OD1	2.32	0.46
1:q:119:LYS:O	1:q:252:ASN:N	2.46	0.46
1:q:199:LEU:O	1:q:213:GLU:HG2	2.15	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:s:100:ASN:ND2	1:s:420:TRP:O	2.47	0.46
1:s:180:LEU:HD21	1:s:522:TYR:CE1	2.50	0.46
1:t:306:GLY:O	1:t:355:TYR:OH	2.21	0.46
1:8:180:LEU:HD21	1:8:522:TYR:CE1	2.50	0.46
1:D:95:THR:HB	1:D:187:LEU:HB3	1.97	0.46
1:I:86:SER:HB3	1:I:197:ASN:HD22	1.80	0.46
1:K:95:THR:HB	1:K:187:LEU:HB3	1.97	0.46
1:S:67:GLN:NE2	1:S:189:GLN:HB2	2.26	0.46
1:U:119:LYS:O	1:U:252:ASN:N	2.46	0.46
1:c:180:LEU:HD21	1:c:522:TYR:CE1	2.50	0.46
1:c:199:LEU:O	1:c:213:GLU:HG2	2.15	0.46
1:c:427:ASP:OD2	1:p:535:LYS:NZ	2.29	0.46
1:e:180:LEU:HD21	1:e:522:TYR:CE1	2.50	0.46
1:f:256:TYR:CG	1:h:221:PRO:HG3	2.51	0.46
1:i:95:THR:HB	1:i:187:LEU:HB3	1.97	0.46
1:k:95:THR:HB	1:k:187:LEU:HB3	1.97	0.46
1:l:86:SER:HB3	1:l:197:ASN:HD22	1.80	0.46
1:m:95:THR:HB	1:m:187:LEU:HB3	1.97	0.46
1:o:86:SER:HB3	1:o:197:ASN:HD22	1.80	0.46
1:o:199:LEU:O	1:o:213:GLU:HG2	2.15	0.46
1:r:67:GLN:NE2	1:r:189:GLN:HB2	2.26	0.46
1:w:95:THR:HB	1:w:187:LEU:HB3	1.97	0.46
1:y:86:SER:HB3	1:y:197:ASN:HD22	1.80	0.46
1:2:86:SER:HB3	1:2:197:ASN:HD22	1.80	0.46
1:2:95:THR:HB	1:2:187:LEU:HB3	1.97	0.46
1:2:199:LEU:O	1:2:213:GLU:HG2	2.15	0.46
1:4:95:THR:HB	1:4:187:LEU:HB3	1.97	0.46
1:C:85:LYS:HE2	1:M:292:SER:CB	2.41	0.46
1:H:95:THR:HB	1:H:187:LEU:HB3	1.97	0.46
1:H:180:LEU:HD21	1:H:522:TYR:CE1	2.50	0.46
1:N:95:THR:HB	1:N:187:LEU:HB3	1.97	0.46
1:R:95:THR:HB	1:R:187:LEU:HB3	1.97	0.46
1:R:100:ASN:ND2	1:R:420:TRP:O	2.47	0.46
1:T:95:THR:HB	1:T:187:LEU:HB3	1.97	0.46
1:T:272:VAL:HG22	1:d:360:TYR:CE2	2.50	0.46
1:X:45:GLY:N	1:Y:229:ASP:OD1	2.32	0.46
1:X:86:SER:HB3	1:X:197:ASN:HD22	1.80	0.46
1:X:427:ASP:OD2	1:e:535:LYS:NZ	2.28	0.46
1:b:199:LEU:O	1:b:213:GLU:HG2	2.15	0.46
1:d:95:THR:HB	1:d:187:LEU:HB3	1.97	0.46
1:d:199:LEU:O	1:d:213:GLU:HG2	2.15	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:f:100:ASN:ND2	1:f:420:TRP:O	2.47	0.46
1:g:85:LYS:HE2	1:h:292:SER:CB	2.41	0.46
1:k:100:ASN:ND2	1:k:420:TRP:O	2.46	0.46
1:m:67:GLN:NE2	1:m:189:GLN:HB2	2.26	0.46
1:m:100:ASN:ND2	1:m:420:TRP:O	2.47	0.46
1:n:95:THR:HB	1:n:187:LEU:HB3	1.97	0.46
1:n:199:LEU:O	1:n:213:GLU:HG2	2.15	0.46
1:s:95:THR:HB	1:s:187:LEU:HB3	1.97	0.46
1:s:119:LYS:O	1:s:252:ASN:N	2.46	0.46
1:5:180:LEU:HD21	1:5:522:TYR:CE1	2.50	0.46
1:M:221:PRO:HG3	1:b:256:TYR:CG	2.51	0.46
1:N:267:VAL:HG12	1:P:188:PHE:HD1	1.79	0.46
1:Q:81:ASN:O	1:Q:313:THR:OG1	2.31	0.46
1:T:67:GLN:NE2	1:T:189:GLN:HB2	2.26	0.46
1:U:95:THR:HB	1:U:187:LEU:HB3	1.97	0.46
1:X:360:TYR:CE2	1:e:272:VAL:HG22	2.51	0.46
1:a:441:MET:HE3	1:a:444:PRO:HA	1.98	0.46
1:f:199:LEU:O	1:f:213:GLU:HG2	2.15	0.46
1:g:199:LEU:O	1:g:213:GLU:HG2	2.15	0.46
1:m:267:VAL:HG12	1:n:188:PHE:HD1	1.79	0.46
1:m:431:ILE:HD11	1:n:428:LYS:HD2	1.98	0.46
1:p:86:SER:HB3	1:p:197:ASN:HD22	1.80	0.46
1:q:95:THR:HB	1:q:187:LEU:HB3	1.97	0.46
1:q:100:ASN:ND2	1:q:420:TRP:O	2.47	0.46
1:t:86:SER:HB3	1:t:197:ASN:HD22	1.80	0.46
1:u:86:SER:HB3	1:u:197:ASN:HD22	1.80	0.46
1:x:180:LEU:HD21	1:x:522:TYR:CE1	2.50	0.46
1:5:95:THR:HB	1:5:187:LEU:HB3	1.97	0.46
1:7:67:GLN:NE2	1:7:189:GLN:HB2	2.26	0.46
1:7:199:LEU:O	1:7:213:GLU:HG2	2.15	0.46
1:8:410:ARG:O	1:8:535:LYS:NZ	2.38	0.46
1:A:86:SER:HB3	1:A:197:ASN:HD22	1.80	0.46
1:A:229:ASP:OD1	1:B:45:GLY:N	2.33	0.46
1:C:95:THR:HB	1:C:187:LEU:HB3	1.97	0.46
1:C:199:LEU:O	1:C:213:GLU:HG2	2.15	0.46
1:F:86:SER:HB3	1:F:197:ASN:HD22	1.80	0.46
1:F:441:MET:HE3	1:F:444:PRO:HA	1.98	0.46
1:G:441:MET:HE3	1:G:444:PRO:HA	1.98	0.46
1:S:45:GLY:N	1:d:229:ASP:OD1	2.34	0.46
1:h:441:MET:HE3	1:h:444:PRO:HA	1.98	0.46
1:q:67:GLN:NE2	1:q:189:GLN:HB2	2.26	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:q:86:SER:HB3	1:q:197:ASN:HD22	1.80	0.46
1:v:86:SER:HB3	1:v:197:ASN:HD22	1.80	0.46
1:x:81:ASN:O	1:x:313:THR:OG1	2.31	0.46
1:y:44:VAL:CG2	1:y:57:LYS:HD2	2.44	0.46
1:y:441:MET:HE3	1:y:444:PRO:HA	1.98	0.46
1:3:441:MET:HE3	1:3:444:PRO:HA	1.98	0.46
1:A:256:TYR:CG	1:G:221:PRO:HG3	2.51	0.46
1:A:410:ARG:O	1:A:535:LYS:NZ	2.38	0.46
1:A:428:LYS:HD2	1:I:431:ILE:HD11	1.98	0.46
1:C:86:SER:HB3	1:C:197:ASN:HD22	1.80	0.46
1:C:180:LEU:HD21	1:C:522:TYR:CE1	2.50	0.46
1:E:441:MET:HE3	1:E:444:PRO:HA	1.98	0.46
1:G:86:SER:HB3	1:G:197:ASN:HD22	1.80	0.46
1:H:188:PHE:HD1	1:Y:267:VAL:HG12	1.79	0.46
1:M:427:ASP:OD2	1:b:535:LYS:NZ	2.29	0.46
1:M:441:MET:HE3	1:M:444:PRO:HA	1.98	0.46
1:O:95:THR:HB	1:O:187:LEU:HB3	1.97	0.46
1:O:256:TYR:CG	1:m:221:PRO:HG3	2.51	0.46
1:O:306:GLY:O	1:O:355:TYR:OH	2.21	0.46
1:Q:180:LEU:HD21	1:Q:522:TYR:CE1	2.50	0.46
1:Q:441:MET:HE3	1:Q:444:PRO:HA	1.98	0.46
1:R:86:SER:HB3	1:R:197:ASN:HD22	1.80	0.46
1:R:428:LYS:HD2	1:U:431:ILE:HD11	1.98	0.46
1:S:256:TYR:CG	1:U:221:PRO:HG3	2.51	0.46
1:T:100:ASN:ND2	1:T:420:TRP:O	2.47	0.46
1:V:86:SER:HB3	1:V:197:ASN:HD22	1.80	0.46
1:Y:199:LEU:O	1:Y:213:GLU:HG2	2.15	0.46
1:Z:221:PRO:HG3	1:3:256:TYR:CG	2.51	0.46
1:Z:428:LYS:HD2	1:3:431:ILE:HD11	1.98	0.46
1:a:256:TYR:CG	1:8:221:PRO:HG3	2.51	0.46
1:a:431:ILE:HD11	1:8:428:LYS:HD2	1.98	0.46
1:d:441:MET:HE3	1:d:444:PRO:HA	1.98	0.46
1:g:86:SER:HB3	1:g:197:ASN:HD22	1.80	0.46
1:g:95:THR:HB	1:g:187:LEU:HB3	1.97	0.46
1:i:267:VAL:HG12	1:j:188:PHE:HD1	1.79	0.46
1:l:410:ARG:O	1:l:535:LYS:NZ	2.38	0.46
1:n:441:MET:HE3	1:n:444:PRO:HA	1.98	0.46
1:r:256:TYR:CG	1:s:221:PRO:HG3	2.51	0.46
1:s:213:GLU:HG2	1:s:328:VAL:HG23	1.98	0.46
1:s:441:MET:HE3	1:s:444:PRO:HA	1.98	0.46
1:t:221:PRO:HG3	1:v:256:TYR:CG	2.51	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:t:441:MET:HE3	1:t:444:PRO:HA	1.98	0.46
1:u:431:ILE:HD11	1:v:428:LYS:HD2	1.98	0.46
1:w:441:MET:HE3	1:w:444:PRO:HA	1.98	0.46
1:x:441:MET:HE3	1:x:444:PRO:HA	1.98	0.46
1:5:221:PRO:HG3	1:7:256:TYR:CG	2.51	0.46
1:A:221:PRO:HG3	1:I:256:TYR:CG	2.51	0.46
1:C:431:ILE:HD11	1:b:428:LYS:HD2	1.98	0.46
1:F:44:VAL:CG2	1:F:57:LYS:HD2	2.44	0.46
1:G:256:TYR:CG	1:I:221:PRO:HG3	2.51	0.46
1:H:221:PRO:HG3	1:Y:256:TYR:CG	2.51	0.46
1:H:441:MET:HE3	1:H:444:PRO:HA	1.98	0.46
1:I:213:GLU:HG2	1:I:328:VAL:HG23	1.98	0.46
1:K:86:SER:HB3	1:K:197:ASN:HD22	1.80	0.46
1:O:119:LYS:O	1:O:252:ASN:N	2.46	0.46
1:R:67:GLN:NE2	1:R:189:GLN:HB2	2.26	0.46
1:T:221:PRO:HG3	1:l:256:TYR:CG	2.51	0.46
1:T:441:MET:HE3	1:T:444:PRO:HA	1.98	0.46
1:U:213:GLU:HG2	1:U:328:VAL:HG23	1.98	0.46
1:U:441:MET:HE3	1:U:444:PRO:HA	1.98	0.46
1:Y:67:GLN:NE2	1:Y:189:GLN:HB2	2.26	0.46
1:Y:213:GLU:HG2	1:Y:328:VAL:HG23	1.98	0.46
1:f:428:LYS:HD2	1:g:431:ILE:HD11	1.98	0.46
1:g:180:LEU:HD21	1:g:522:TYR:CE1	2.50	0.46
1:h:86:SER:HB3	1:h:197:ASN:HD22	1.80	0.46
1:l:95:THR:HB	1:l:187:LEU:HB3	1.97	0.46
1:l:229:ASP:OD1	1:n:45:GLY:N	2.32	0.46
1:l:306:GLY:O	1:l:355:TYR:OH	2.21	0.46
1:q:428:LYS:HD2	1:s:431:ILE:HD11	1.98	0.46
1:q:431:ILE:HD11	1:r:428:LYS:HD2	1.98	0.46
1:u:213:GLU:HG2	1:u:328:VAL:HG23	1.98	0.46
1:u:256:TYR:CG	1:v:221:PRO:HG3	2.51	0.46
1:x:86:SER:HB3	1:x:197:ASN:HD22	1.80	0.46
1:1:256:TYR:CG	1:2:221:PRO:HG3	2.51	0.46
1:5:67:GLN:NE2	1:5:189:GLN:HB2	2.26	0.46
1:5:441:MET:HE3	1:5:444:PRO:HA	1.98	0.46
1:B:256:TYR:CG	1:J:221:PRO:HG3	2.51	0.46
1:G:292:SER:CB	1:I:85:LYS:HE2	2.41	0.46
1:M:86:SER:HB3	1:M:197:ASN:HD22	1.80	0.46
1:N:213:GLU:HG2	1:N:328:VAL:HG23	1.98	0.46
1:R:431:ILE:HD11	1:S:428:LYS:HD2	1.98	0.46
1:S:81:ASN:O	1:S:313:THR:OG1	2.31	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:S:431:ILE:HD11	1:U:428:LYS:HD2	1.98	0.46
1:T:274:TYR:CG	1:d:353:LEU:HD22	2.51	0.46
1:Y:180:LEU:HD21	1:Y:522:TYR:CE1	2.50	0.46
1:c:221:PRO:HG3	1:p:256:TYR:CG	2.51	0.46
1:e:441:MET:HE3	1:e:444:PRO:HA	1.98	0.46
1:f:213:GLU:HG2	1:f:328:VAL:HG23	1.98	0.46
1:i:213:GLU:HG2	1:i:328:VAL:HG23	1.98	0.46
1:i:441:MET:HE3	1:i:444:PRO:HA	1.98	0.46
1:j:256:TYR:CG	1:k:221:PRO:HG3	2.51	0.46
1:k:441:MET:HE3	1:k:444:PRO:HA	1.98	0.46
1:l:213:GLU:HG2	1:l:328:VAL:HG23	1.98	0.46
1:m:441:MET:HE3	1:m:444:PRO:HA	1.98	0.46
1:q:256:TYR:CG	1:r:221:PRO:HG3	2.51	0.46
1:r:95:THR:HB	1:r:187:LEU:HB3	1.97	0.46
1:r:431:ILE:HD11	1:s:428:LYS:HD2	1.98	0.46
1:s:44:VAL:CG2	1:s:57:LYS:HD2	2.44	0.46
1:3:86:SER:HB3	1:3:197:ASN:HD22	1.80	0.46
1:5:188:PHE:HD1	1:7:267:VAL:HG12	1.79	0.46
1:7:213:GLU:HG2	1:7:328:VAL:HG23	1.98	0.46
1:B:221:PRO:HG3	1:L:256:TYR:CG	2.51	0.45
1:C:256:TYR:CG	1:b:221:PRO:HG3	2.51	0.45
1:C:428:LYS:HD2	1:M:431:ILE:HD11	1.98	0.45
1:D:221:PRO:HG3	1:P:256:TYR:CG	2.51	0.45
1:D:256:TYR:CG	1:N:221:PRO:HG3	2.51	0.45
1:D:441:MET:HE3	1:D:444:PRO:HA	1.98	0.45
1:F:119:LYS:O	1:F:252:ASN:N	2.46	0.45
1:I:95:THR:HB	1:I:187:LEU:HB3	1.97	0.45
1:K:428:LYS:HD2	1:8:431:ILE:HD11	1.98	0.45
1:N:441:MET:HE3	1:N:444:PRO:HA	1.98	0.45
1:O:213:GLU:HG2	1:O:328:VAL:HG23	1.98	0.45
1:Q:86:SER:HB3	1:Q:197:ASN:HD22	1.80	0.45
1:R:256:TYR:CG	1:S:221:PRO:HG3	2.51	0.45
1:U:44:VAL:CG2	1:U:57:LYS:HD2	2.44	0.45
1:V:95:THR:HB	1:V:187:LEU:HB3	1.97	0.45
1:V:213:GLU:HG2	1:V:328:VAL:HG23	1.98	0.45
1:V:221:PRO:HG3	1:X:256:TYR:CG	2.51	0.45
1:V:441:MET:HE3	1:V:444:PRO:HA	1.98	0.45
1:W:256:TYR:CG	1:Y:221:PRO:HG3	2.51	0.45
1:W:348:LEU:HA	1:W:384:GLN:O	2.17	0.45
1:W:431:ILE:HD11	1:Y:428:LYS:HD2	1.98	0.45
1:Z:431:ILE:HD11	1:4:428:LYS:HD2	1.98	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:c:441:MET:HE3	1:c:444:PRO:HA	1.98	0.45
1:f:221:PRO:HG3	1:g:256:TYR:CG	2.51	0.45
1:g:428:LYS:HD2	1:h:431:ILE:HD11	1.98	0.45
1:j:535:LYS:NZ	1:k:427:ASP:OD2	2.28	0.45
1:o:256:TYR:CG	1:p:221:PRO:HG3	2.51	0.45
1:p:95:THR:HB	1:p:187:LEU:HB3	1.97	0.45
1:p:213:GLU:HG2	1:p:328:VAL:HG23	1.98	0.45
1:r:81:ASN:O	1:r:313:THR:OG1	2.31	0.45
1:t:256:TYR:CG	1:u:221:PRO:HG3	2.51	0.45
1:u:95:THR:HB	1:u:187:LEU:HB3	1.97	0.45
1:w:67:GLN:NE2	1:w:189:GLN:HB2	2.26	0.45
1:x:67:GLN:NE2	1:x:189:GLN:HB2	2.26	0.45
1:z:256:TYR:CG	1:1:221:PRO:HG3	2.51	0.45
1:4:86:SER:HB3	1:4:197:ASN:HD22	1.80	0.45
1:6:256:TYR:CG	1:7:221:PRO:HG3	2.51	0.45
1:6:348:LEU:HA	1:6:384:GLN:O	2.17	0.45
1:8:95:THR:HB	1:8:187:LEU:HB3	1.97	0.45
1:A:188:PHE:HD1	1:I:267:VAL:HG12	1.79	0.45
1:B:213:GLU:HG2	1:B:328:VAL:HG23	1.98	0.45
1:E:85:LYS:HE2	1:F:292:SER:CB	2.40	0.45
1:H:67:GLN:NE2	1:H:189:GLN:HB2	2.26	0.45
1:J:213:GLU:HG2	1:J:328:VAL:HG23	1.98	0.45
1:O:348:LEU:HA	1:O:384:GLN:O	2.17	0.45
1:S:95:THR:HB	1:S:187:LEU:HB3	1.97	0.45
1:Z:95:THR:HB	1:Z:187:LEU:HB3	1.97	0.45
1:Z:119:LYS:O	1:Z:252:ASN:N	2.46	0.45
1:Z:441:MET:HE3	1:Z:444:PRO:HA	1.98	0.45
1:a:86:SER:HB3	1:a:197:ASN:HD22	1.80	0.45
1:b:213:GLU:HG2	1:b:328:VAL:HG23	1.98	0.45
1:i:221:PRO:HG3	1:k:256:TYR:CG	2.51	0.45
1:j:95:THR:HB	1:j:187:LEU:HB3	1.97	0.45
1:l:119:LYS:O	1:l:252:ASN:N	2.47	0.45
1:l:348:LEU:HA	1:l:384:GLN:O	2.17	0.45
1:q:306:GLY:O	1:q:355:TYR:OH	2.21	0.45
1:s:86:SER:HB3	1:s:197:ASN:HD22	1.80	0.45
1:w:85:LYS:HE2	1:y:292:SER:CB	2.40	0.45
1:w:256:TYR:CG	1:x:221:PRO:HG3	2.51	0.45
1:y:119:LYS:O	1:y:252:ASN:N	2.46	0.45
1:1:213:GLU:HG2	1:1:328:VAL:HG23	1.98	0.45
1:2:81:ASN:O	1:2:313:THR:OG1	2.31	0.45
1:3:348:LEU:HA	1:3:384:GLN:O	2.17	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:6:431:ILE:HD11	1:7:428:LYS:HD2	1.98	0.45
1:7:180:LEU:HD21	1:7:522:TYR:CE1	2.50	0.45
1:8:441:MET:HE3	1:8:444:PRO:HA	1.98	0.45
1:A:431:ILE:HD11	1:G:428:LYS:HD2	1.98	0.45
1:B:85:LYS:HE2	1:L:292:SER:CB	2.41	0.45
1:B:428:LYS:HD2	1:L:431:ILE:HD11	1.98	0.45
1:C:441:MET:HE3	1:C:444:PRO:HA	1.98	0.45
1:D:213:GLU:HG2	1:D:328:VAL:HG23	1.98	0.45
1:E:256:TYR:CG	1:Q:221:PRO:HG3	2.51	0.45
1:J:81:ASN:O	1:J:313:THR:OG1	2.31	0.45
1:K:213:GLU:HG2	1:K:328:VAL:HG23	1.98	0.45
1:U:86:SER:HB3	1:U:197:ASN:HD22	1.80	0.45
1:V:348:LEU:HA	1:V:384:GLN:O	2.17	0.45
1:W:86:SER:HB3	1:W:197:ASN:HD22	1.80	0.45
1:a:348:LEU:HA	1:a:384:GLN:O	2.17	0.45
1:c:67:GLN:NE2	1:c:189:GLN:HB2	2.26	0.45
1:c:213:GLU:HG2	1:c:328:VAL:HG23	1.98	0.45
1:c:267:VAL:HG12	1:o:188:PHE:HD1	1.79	0.45
1:d:213:GLU:HG2	1:d:328:VAL:HG23	1.98	0.45
1:j:229:ASP:OD1	1:l:45:GLY:N	2.33	0.45
1:k:163:HIS:HD2	1:k:443:HIS:HD2	1.65	0.45
1:k:213:GLU:HG2	1:k:328:VAL:HG23	1.98	0.45
1:l:441:MET:HE3	1:l:444:PRO:HA	1.98	0.45
1:m:292:SER:CB	1:n:85:LYS:HE2	2.40	0.45
1:p:348:LEU:HA	1:p:384:GLN:O	2.17	0.45
1:p:441:MET:HE3	1:p:444:PRO:HA	1.98	0.45
1:t:213:GLU:HG2	1:t:328:VAL:HG23	1.98	0.45
1:t:428:LYS:HD2	1:v:431:ILE:HD11	1.98	0.45
1:v:67:GLN:NE2	1:v:189:GLN:HB2	2.26	0.45
1:v:410:ARG:O	1:v:535:LYS:NZ	2.38	0.45
1:x:348:LEU:HA	1:x:384:GLN:O	2.17	0.45
1:z:95:THR:HB	1:z:187:LEU:HB3	1.97	0.45
1:z:292:SER:CB	1:1:85:LYS:HE2	2.41	0.45
1:z:431:ILE:HD11	1:1:428:LYS:HD2	1.98	0.45
1:2:213:GLU:HG2	1:2:328:VAL:HG23	1.98	0.45
1:5:85:LYS:HE2	1:7:292:SER:CB	2.41	0.45
1:8:213:GLU:HG2	1:8:328:VAL:HG23	1.98	0.45
1:D:163:HIS:HD2	1:D:443:HIS:HD2	1.65	0.45
1:D:431:ILE:HD11	1:N:428:LYS:HD2	1.98	0.45
1:E:67:GLN:NE2	1:E:189:GLN:HB2	2.26	0.45
1:E:221:PRO:HG3	1:F:256:TYR:CG	2.51	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:213:GLU:HG2	1:G:328:VAL:HG23	1.98	0.45
1:H:256:TYR:CG	1:W:221:PRO:HG3	2.51	0.45
1:J:306:GLY:O	1:J:355:TYR:OH	2.21	0.45
1:K:256:TYR:CG	1:a:221:PRO:HG3	2.51	0.45
1:O:427:ASP:OD2	1:n:535:LYS:NZ	2.28	0.45
1:P:95:THR:HB	1:P:187:LEU:HB3	1.97	0.45
1:Q:67:GLN:NE2	1:Q:189:GLN:HB2	2.26	0.45
1:Q:348:LEU:HA	1:Q:384:GLN:O	2.17	0.45
1:T:163:HIS:HD2	1:T:443:HIS:HD2	1.65	0.45
1:U:67:GLN:NE2	1:U:189:GLN:HB2	2.26	0.45
1:V:428:LYS:HD2	1:X:431:ILE:HD11	1.99	0.45
1:X:188:PHE:HD1	1:e:267:VAL:HG12	1.79	0.45
1:Z:213:GLU:HG2	1:Z:328:VAL:HG23	1.98	0.45
1:Z:256:TYR:CG	1:4:221:PRO:HG3	2.51	0.45
1:c:256:TYR:CG	1:o:221:PRO:HG3	2.51	0.45
1:f:535:LYS:NZ	1:h:427:ASP:OD2	2.29	0.45
1:g:441:MET:HE3	1:g:444:PRO:HA	1.98	0.45
1:m:256:TYR:CG	1:n:221:PRO:HG3	2.51	0.45
1:n:213:GLU:HG2	1:n:328:VAL:HG23	1.98	0.45
1:o:431:ILE:HD11	1:p:428:LYS:HD2	1.98	0.45
1:r:441:MET:HE3	1:r:444:PRO:HA	1.98	0.45
1:w:81:ASN:O	1:w:313:THR:OG1	2.31	0.45
1:5:256:TYR:CG	1:6:221:PRO:HG3	2.51	0.45
1:6:86:SER:HB3	1:6:197:ASN:HD22	1.80	0.45
1:7:95:THR:HB	1:7:187:LEU:HB3	1.97	0.45
1:A:67:GLN:NE2	1:A:189:GLN:HB2	2.26	0.45
1:B:441:MET:HE3	1:B:444:PRO:HA	1.98	0.45
1:C:119:LYS:O	1:C:252:ASN:N	2.46	0.45
1:D:535:LYS:NZ	1:N:427:ASP:OD2	2.28	0.45
1:E:81:ASN:O	1:E:313:THR:OG1	2.31	0.45
1:G:119:LYS:O	1:G:252:ASN:N	2.46	0.45
1:H:100:ASN:ND2	1:H:420:TRP:O	2.47	0.45
1:J:431:ILE:HD11	1:L:428:LYS:HD2	1.99	0.45
1:K:221:PRO:HG3	1:8:256:TYR:CG	2.51	0.45
1:L:95:THR:HB	1:L:187:LEU:HB3	1.97	0.45
1:M:188:PHE:HD1	1:b:267:VAL:HG12	1.79	0.45
1:N:348:LEU:HA	1:N:384:GLN:O	2.17	0.45
1:O:45:GLY:N	1:P:229:ASP:OD1	2.32	0.45
1:O:428:LYS:HD2	1:n:431:ILE:HD11	1.98	0.45
1:O:441:MET:HE3	1:O:444:PRO:HA	1.98	0.45
1:P:86:SER:HB3	1:P:197:ASN:HD22	1.80	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:R:441:MET:HE3	1:R:444:PRO:HA	1.98	0.45
1:S:306:GLY:O	1:S:355:TYR:OH	2.21	0.45
1:S:441:MET:HE3	1:S:444:PRO:HA	1.98	0.45
1:Z:163:HIS:HD2	1:Z:443:HIS:HD2	1.65	0.45
1:a:403:PHE:CG	1:a:404:PRO:HD2	2.52	0.45
1:c:431:ILE:HD11	1:o:428:LYS:HD2	1.98	0.45
1:d:403:PHE:CG	1:d:404:PRO:HD2	2.52	0.45
1:e:213:GLU:HG2	1:e:328:VAL:HG23	1.98	0.45
1:f:403:PHE:CG	1:f:404:PRO:HD2	2.52	0.45
1:g:119:LYS:O	1:g:252:ASN:N	2.46	0.45
1:h:403:PHE:CG	1:h:404:PRO:HD2	2.52	0.45
1:i:348:LEU:HA	1:i:384:GLN:O	2.17	0.45
1:i:428:LYS:HD2	1:k:431:ILE:HD11	1.98	0.45
1:j:86:SER:HB3	1:j:197:ASN:HD22	1.80	0.45
1:n:403:PHE:CG	1:n:404:PRO:HD2	2.52	0.45
1:p:163:HIS:HD2	1:p:443:HIS:HD2	1.65	0.45
1:s:67:GLN:NE2	1:s:189:GLN:HB2	2.26	0.45
1:t:119:LYS:O	1:t:252:ASN:N	2.46	0.45
1:v:348:LEU:HA	1:v:384:GLN:O	2.17	0.45
1:w:221:PRO:HG3	1:y:256:TYR:CG	2.51	0.45
1:y:213:GLU:HG2	1:y:328:VAL:HG23	1.98	0.45
1:z:213:GLU:HG2	1:z:328:VAL:HG23	1.98	0.45
1:z:221:PRO:HG3	1:2:256:TYR:CG	2.51	0.45
1:z:306:GLY:O	1:z:355:TYR:OH	2.21	0.45
1:z:428:LYS:HD2	1:2:431:ILE:HD11	1.99	0.45
1:1:100:ASN:ND2	1:1:420:TRP:O	2.47	0.45
1:1:292:SER:CB	1:2:85:LYS:HE2	2.41	0.45
1:3:221:PRO:HG3	1:4:256:TYR:CG	2.51	0.45
1:3:403:PHE:CG	1:3:404:PRO:HD2	2.52	0.45
1:4:213:GLU:HG2	1:4:328:VAL:HG23	1.98	0.45
1:8:119:LYS:O	1:8:252:ASN:N	2.46	0.45
1:8:163:HIS:HD2	1:8:443:HIS:HD2	1.65	0.45
1:A:348:LEU:HA	1:A:384:GLN:O	2.17	0.45
1:C:403:PHE:CG	1:C:404:PRO:HD2	2.52	0.45
1:E:348:LEU:HA	1:E:384:GLN:O	2.17	0.45
1:F:163:HIS:HD2	1:F:443:HIS:HD2	1.65	0.45
1:H:85:LYS:HE2	1:Y:292:SER:CB	2.41	0.45
1:J:100:ASN:ND2	1:J:420:TRP:O	2.47	0.45
1:J:348:LEU:HA	1:J:384:GLN:O	2.17	0.45
1:L:403:PHE:CG	1:L:404:PRO:HD2	2.52	0.45
1:M:403:PHE:CG	1:M:404:PRO:HD2	2.52	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:256:TYR:CG	1:P:221:PRO:HG3	2.51	0.45
1:O:221:PRO:HG3	1:n:256:TYR:CG	2.51	0.45
1:O:403:PHE:CG	1:O:404:PRO:HD2	2.52	0.45
1:T:403:PHE:CG	1:T:404:PRO:HD2	2.52	0.45
1:V:163:HIS:HD2	1:V:443:HIS:HD2	1.65	0.45
1:V:403:PHE:CG	1:V:404:PRO:HD2	2.52	0.45
1:X:95:THR:HB	1:X:187:LEU:HB3	1.97	0.45
1:Y:95:THR:HB	1:Y:187:LEU:HB3	1.97	0.45
1:Y:163:HIS:HD2	1:Y:443:HIS:HD2	1.65	0.45
1:b:403:PHE:CG	1:b:404:PRO:HD2	2.52	0.45
1:e:67:GLN:NE2	1:e:189:GLN:HB2	2.26	0.45
1:i:256:TYR:CG	1:j:221:PRO:HG3	2.51	0.45
1:i:431:ILE:HD11	1:j:428:LYS:HD2	1.98	0.45
1:m:163:HIS:HD2	1:m:443:HIS:HD2	1.65	0.45
1:m:403:PHE:CG	1:m:404:PRO:HD2	2.52	0.45
1:o:95:THR:HB	1:o:187:LEU:HB3	1.97	0.45
1:q:441:MET:HE3	1:q:444:PRO:HA	1.98	0.45
1:u:267:VAL:HG12	1:v:188:PHE:HD1	1.79	0.45
1:z:403:PHE:CG	1:z:404:PRO:HD2	2.52	0.45
1:2:348:LEU:HA	1:2:384:GLN:O	2.17	0.45
1:5:100:ASN:ND2	1:5:420:TRP:O	2.47	0.45
1:7:163:HIS:HD2	1:7:443:HIS:HD2	1.65	0.45
1:B:100:ASN:ND2	1:B:420:TRP:O	2.47	0.45
1:B:403:PHE:CG	1:B:404:PRO:HD2	2.52	0.45
1:F:213:GLU:HG2	1:F:328:VAL:HG23	1.98	0.45
1:H:403:PHE:CG	1:H:404:PRO:HD2	2.52	0.45
1:J:256:TYR:CG	1:L:221:PRO:HG3	2.51	0.45
1:K:292:SER:CB	1:a:85:LYS:HE2	2.40	0.45
1:L:213:GLU:HG2	1:L:328:VAL:HG23	1.98	0.45
1:L:306:GLY:O	1:L:355:TYR:OH	2.21	0.45
1:N:431:ILE:HD11	1:P:428:LYS:HD2	1.98	0.45
1:O:224:MET:HE1	1:d:180:LEU:HD22	1.98	0.45
1:Y:403:PHE:CG	1:Y:404:PRO:HD2	2.52	0.45
1:Y:441:MET:HE3	1:Y:444:PRO:HA	1.98	0.45
1:g:403:PHE:CG	1:g:404:PRO:HD2	2.52	0.45
1:l:403:PHE:CG	1:l:404:PRO:HD2	2.52	0.45
1:p:403:PHE:CG	1:p:404:PRO:HD2	2.52	0.45
1:s:403:PHE:CG	1:s:404:PRO:HD2	2.52	0.45
1:w:348:LEU:HA	1:w:384:GLN:O	2.17	0.45
1:w:403:PHE:CG	1:w:404:PRO:HD2	2.52	0.45
1:x:292:SER:CB	1:y:85:LYS:HE2	2.40	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:z:119:LYS:O	1:z:252:ASN:N	2.46	0.45
1:1:67:GLN:NE2	1:1:189:GLN:HB2	2.26	0.45
1:1:403:PHE:CG	1:1:404:PRO:HD2	2.52	0.45
1:1:441:MET:HE3	1:1:444:PRO:HA	1.98	0.45
1:5:229:ASP:OD1	1:8:45:GLY:N	2.32	0.45
1:5:348:LEU:HA	1:5:384:GLN:O	2.17	0.45
1:5:403:PHE:CG	1:5:404:PRO:HD2	2.52	0.45
1:7:441:MET:HE3	1:7:444:PRO:HA	1.98	0.45
1:C:221:PRO:HG3	1:M:256:TYR:CG	2.51	0.45
1:C:249:TRP:HH2	1:C:482:GLU:HG2	1.82	0.45
1:E:403:PHE:CG	1:E:404:PRO:HD2	2.52	0.45
1:H:348:LEU:HA	1:H:384:GLN:O	2.17	0.45
1:K:67:GLN:NE2	1:K:189:GLN:HB2	2.26	0.45
1:L:119:LYS:O	1:L:252:ASN:N	2.46	0.45
1:N:249:TRP:HH2	1:N:482:GLU:HG2	1.82	0.45
1:P:249:TRP:HH2	1:P:482:GLU:HG2	1.82	0.45
1:Q:403:PHE:CG	1:Q:404:PRO:HD2	2.52	0.45
1:S:213:GLU:HG2	1:S:328:VAL:HG23	1.98	0.45
1:T:348:LEU:HA	1:T:384:GLN:O	2.17	0.45
1:U:403:PHE:CG	1:U:404:PRO:HD2	2.52	0.45
1:f:267:VAL:HG12	1:h:188:PHE:HD1	1.79	0.45
1:g:221:PRO:HG3	1:h:256:TYR:CG	2.51	0.45
1:g:348:LEU:HA	1:g:384:GLN:O	2.17	0.45
1:j:249:TRP:HH2	1:j:482:GLU:HG2	1.82	0.45
1:m:348:LEU:HA	1:m:384:GLN:O	2.17	0.45
1:n:348:LEU:HA	1:n:384:GLN:O	2.17	0.45
1:r:213:GLU:HG2	1:r:328:VAL:HG23	1.98	0.45
1:v:249:TRP:HH2	1:v:482:GLU:HG2	1.82	0.45
1:y:163:HIS:HD2	1:y:443:HIS:HD2	1.65	0.45
1:2:126:MET:HE2	1:2:479:ILE:HD11	1.99	0.45
1:3:85:LYS:HE2	1:4:292:SER:CB	2.40	0.45
1:7:403:PHE:CG	1:7:404:PRO:HD2	2.52	0.45
1:A:163:HIS:HD2	1:A:443:HIS:HD2	1.65	0.45
1:A:249:TRP:HH2	1:A:482:GLU:HG2	1.82	0.45
1:B:67:GLN:NE2	1:B:189:GLN:HB2	2.26	0.45
1:B:292:SER:CB	1:J:85:LYS:HE2	2.41	0.45
1:C:348:LEU:HA	1:C:384:GLN:O	2.17	0.45
1:D:403:PHE:CG	1:D:404:PRO:HD2	2.52	0.45
1:E:213:GLU:HG2	1:E:328:VAL:HG23	1.98	0.45
1:F:85:LYS:HE2	1:Q:292:SER:CB	2.41	0.45
1:F:403:PHE:CG	1:F:404:PRO:HD2	2.52	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:431:ILE:HD11	1:I:428:LYS:HD2	1.99	0.45
1:H:126:MET:HE2	1:H:479:ILE:HD11	1.99	0.45
1:I:403:PHE:CG	1:I:404:PRO:HD2	2.52	0.45
1:J:126:MET:HE2	1:J:479:ILE:HD11	1.99	0.45
1:J:156:HIS:ND1	1:J:230:HIS:HE1	2.15	0.45
1:J:249:TRP:HH2	1:J:482:GLU:HG2	1.82	0.45
1:J:403:PHE:CG	1:J:404:PRO:HD2	2.52	0.45
1:L:81:ASN:O	1:L:313:THR:OG1	2.31	0.45
1:L:100:ASN:ND2	1:L:420:TRP:O	2.47	0.45
1:Q:213:GLU:HG2	1:Q:328:VAL:HG23	1.98	0.45
1:T:213:GLU:HG2	1:T:328:VAL:HG23	1.98	0.45
1:W:213:GLU:HG2	1:W:328:VAL:HG23	1.98	0.45
1:X:428:LYS:HD2	1:e:431:ILE:HD11	1.98	0.45
1:Y:249:TRP:HH2	1:Y:482:GLU:HG2	1.82	0.45
1:Z:267:VAL:HG23	1:Z:293:LYS:NZ	2.32	0.45
1:a:213:GLU:HG2	1:a:328:VAL:HG23	1.98	0.45
1:c:348:LEU:HA	1:c:384:GLN:O	2.17	0.45
1:d:348:LEU:HA	1:d:384:GLN:O	2.17	0.45
1:g:126:MET:HE2	1:g:479:ILE:HD11	1.99	0.45
1:g:249:TRP:HH2	1:g:482:GLU:HG2	1.82	0.45
1:h:163:HIS:HD2	1:h:443:HIS:HD2	1.65	0.45
1:i:249:TRP:HH2	1:i:482:GLU:HG2	1.82	0.45
1:j:348:LEU:HA	1:j:384:GLN:O	2.17	0.45
1:m:213:GLU:HG2	1:m:328:VAL:HG23	1.98	0.45
1:p:126:MET:HE2	1:p:479:ILE:HD11	1.99	0.45
1:p:249:TRP:HH2	1:p:482:GLU:HG2	1.82	0.45
1:t:267:VAL:HG23	1:t:293:LYS:NZ	2.32	0.45
1:u:403:PHE:CG	1:u:404:PRO:HD2	2.52	0.45
1:v:163:HIS:HD2	1:v:443:HIS:HD2	1.65	0.45
1:w:213:GLU:HG2	1:w:328:VAL:HG23	1.98	0.45
1:x:119:LYS:O	1:x:252:ASN:N	2.47	0.45
1:x:403:PHE:CG	1:x:404:PRO:HD2	2.52	0.45
1:y:403:PHE:CG	1:y:404:PRO:HD2	2.52	0.45
1:1:431:ILE:HD11	1:2:428:LYS:HD2	1.98	0.45
1:2:100:ASN:ND2	1:2:420:TRP:O	2.47	0.45
1:2:156:HIS:ND1	1:2:230:HIS:HE1	2.15	0.45
1:2:249:TRP:HH2	1:2:482:GLU:HG2	1.82	0.45
1:2:403:PHE:CG	1:2:404:PRO:HD2	2.52	0.45
1:3:428:LYS:HD2	1:4:431:ILE:HD11	1.98	0.45
1:4:267:VAL:HG23	1:4:293:LYS:NZ	2.32	0.45
1:5:126:MET:HE2	1:5:479:ILE:HD11	1.99	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:6:213:GLU:HG2	1:6:328:VAL:HG23	1.98	0.45
1:8:267:VAL:HG23	1:8:293:LYS:NZ	2.32	0.45
1:A:403:PHE:CG	1:A:404:PRO:HD2	2.52	0.45
1:B:156:HIS:ND1	1:B:230:HIS:HE1	2.15	0.45
1:B:431:ILE:HD11	1:J:428:LYS:HD2	1.98	0.45
1:C:126:MET:HE2	1:C:479:ILE:HD11	1.99	0.45
1:D:403:PHE:CD1	1:D:404:PRO:HD2	2.52	0.45
1:F:126:MET:HE2	1:F:479:ILE:HD11	1.99	0.45
1:G:267:VAL:HG23	1:G:293:LYS:NZ	2.32	0.45
1:I:136:LYS:HB2	1:I:470:TYR:CE2	2.52	0.45
1:I:348:LEU:HA	1:I:384:GLN:O	2.17	0.45
1:K:267:VAL:HG23	1:K:293:LYS:NZ	2.32	0.45
1:M:163:HIS:HD2	1:M:443:HIS:HD2	1.65	0.45
1:M:249:TRP:HH2	1:M:482:GLU:HG2	1.82	0.45
1:N:403:PHE:CD1	1:N:404:PRO:HD2	2.52	0.45
1:O:403:PHE:CD1	1:O:404:PRO:HD2	2.52	0.45
1:P:67:GLN:NE2	1:P:189:GLN:HB2	2.26	0.45
1:R:213:GLU:HG2	1:R:328:VAL:HG23	1.98	0.45
1:S:163:HIS:HD2	1:S:443:HIS:HD2	1.65	0.45
1:U:163:HIS:HD2	1:U:443:HIS:HD2	1.65	0.45
1:U:267:VAL:HG23	1:U:293:LYS:NZ	2.32	0.45
1:V:249:TRP:HH2	1:V:482:GLU:HG2	1.82	0.45
1:V:256:TYR:CG	1:e:221:PRO:HG3	2.52	0.45
1:W:267:VAL:HG23	1:W:293:LYS:NZ	2.32	0.45
1:Y:403:PHE:CD1	1:Y:404:PRO:HD2	2.52	0.45
1:c:136:LYS:HB2	1:c:470:TYR:CE2	2.52	0.45
1:d:249:TRP:HH2	1:d:482:GLU:HG2	1.82	0.45
1:d:267:VAL:HG23	1:d:293:LYS:NZ	2.32	0.45
1:e:136:LYS:HB2	1:e:470:TYR:CE2	2.52	0.45
1:e:348:LEU:HA	1:e:384:GLN:O	2.17	0.45
1:f:441:MET:HE3	1:f:444:PRO:HA	1.98	0.45
1:g:267:VAL:HG23	1:g:293:LYS:NZ	2.32	0.45
1:h:213:GLU:HG2	1:h:328:VAL:HG23	1.98	0.45
1:h:348:LEU:HA	1:h:384:GLN:O	2.17	0.45
1:i:403:PHE:CD1	1:i:404:PRO:HD2	2.52	0.45
1:i:427:ASP:OD2	1:k:535:LYS:NZ	2.28	0.45
1:j:67:GLN:NE2	1:j:189:GLN:HB2	2.26	0.45
1:k:403:PHE:CG	1:k:404:PRO:HD2	2.52	0.45
1:k:403:PHE:CD1	1:k:404:PRO:HD2	2.52	0.45
1:l:403:PHE:CD1	1:l:404:PRO:HD2	2.52	0.45
1:m:249:TRP:HH2	1:m:482:GLU:HG2	1.82	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:n:81:ASN:O	1:n:313:THR:OG1	2.31	0.45
1:n:249:TRP:HH2	1:n:482:GLU:HG2	1.82	0.45
1:n:267:VAL:HG23	1:n:293:LYS:NZ	2.32	0.45
1:q:213:GLU:HG2	1:q:328:VAL:HG23	1.98	0.45
1:r:136:LYS:HB2	1:r:470:TYR:CE2	2.52	0.45
1:s:163:HIS:HD2	1:s:443:HIS:HD2	1.65	0.45
1:s:267:VAL:HG23	1:s:293:LYS:NZ	2.32	0.45
1:t:163:HIS:HD2	1:t:443:HIS:HD2	1.65	0.45
1:t:348:LEU:HA	1:t:384:GLN:O	2.17	0.45
1:t:431:ILE:HD11	1:u:428:LYS:HD2	1.99	0.45
1:u:136:LYS:HB2	1:u:470:TYR:CE2	2.52	0.45
1:x:213:GLU:HG2	1:x:328:VAL:HG23	1.98	0.45
1:1:156:HIS:ND1	1:1:230:HIS:HE1	2.15	0.45
1:3:213:GLU:HG2	1:3:328:VAL:HG23	1.98	0.45
1:6:126:MET:HE2	1:6:479:ILE:HD11	1.99	0.45
1:6:267:VAL:HG23	1:6:293:LYS:NZ	2.32	0.45
1:7:249:TRP:HH2	1:7:482:GLU:HG2	1.82	0.45
1:7:403:PHE:CD1	1:7:404:PRO:HD2	2.52	0.45
1:B:249:TRP:HH2	1:B:482:GLU:HG2	1.82	0.44
1:C:267:VAL:HG23	1:C:293:LYS:NZ	2.32	0.44
1:E:136:LYS:HB2	1:E:470:TYR:CE2	2.52	0.44
1:E:428:LYS:HD2	1:F:431:ILE:HD11	1.98	0.44
1:G:163:HIS:HD2	1:G:443:HIS:HD2	1.65	0.44
1:G:348:LEU:HA	1:G:384:GLN:O	2.17	0.44
1:K:431:ILE:HD11	1:a:428:LYS:HD2	1.98	0.44
1:L:136:LYS:HB2	1:L:470:TYR:CE2	2.52	0.44
1:L:348:LEU:HA	1:L:384:GLN:O	2.17	0.44
1:M:156:HIS:ND1	1:M:230:HIS:HE1	2.15	0.44
1:M:213:GLU:HG2	1:M:328:VAL:HG23	1.98	0.44
1:M:348:LEU:HA	1:M:384:GLN:O	2.17	0.44
1:P:156:HIS:ND1	1:P:230:HIS:HE1	2.15	0.44
1:P:348:LEU:HA	1:P:384:GLN:O	2.17	0.44
1:P:403:PHE:CD1	1:P:404:PRO:HD2	2.52	0.44
1:Q:119:LYS:O	1:Q:252:ASN:N	2.47	0.44
1:Q:156:HIS:ND1	1:Q:230:HIS:HE1	2.15	0.44
1:S:136:LYS:HB2	1:S:470:TYR:CE2	2.52	0.44
1:T:188:PHE:HD1	1:l:267:VAL:HG12	1.79	0.44
1:T:249:TRP:HH2	1:T:482:GLU:HG2	1.82	0.44
1:U:81:ASN:O	1:U:313:THR:OG1	2.31	0.44
1:V:126:MET:HE2	1:V:479:ILE:HD11	1.99	0.44
1:V:156:HIS:ND1	1:V:230:HIS:HE1	2.15	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:W:126:MET:HE2	1:W:479:ILE:HD11	1.99	0.44
1:X:403:PHE:CD1	1:X:404:PRO:HD2	2.52	0.44
1:Z:403:PHE:CG	1:Z:404:PRO:HD2	2.52	0.44
1:Z:403:PHE:CD1	1:Z:404:PRO:HD2	2.52	0.44
1:b:267:VAL:HG23	1:b:293:LYS:NZ	2.32	0.44
1:b:441:MET:HE3	1:b:444:PRO:HA	1.98	0.44
1:d:100:ASN:ND2	1:d:420:TRP:O	2.47	0.44
1:f:267:VAL:HG23	1:f:293:LYS:NZ	2.32	0.44
1:h:156:HIS:ND1	1:h:230:HIS:HE1	2.15	0.44
1:h:249:TRP:HH2	1:h:482:GLU:HG2	1.82	0.44
1:i:267:VAL:HG23	1:i:293:LYS:NZ	2.32	0.44
1:i:403:PHE:CG	1:i:404:PRO:HD2	2.52	0.44
1:j:156:HIS:ND1	1:j:230:HIS:HE1	2.15	0.44
1:j:403:PHE:CD1	1:j:404:PRO:HD2	2.52	0.44
1:j:441:MET:HE3	1:j:444:PRO:HA	1.98	0.44
1:m:126:MET:HE2	1:m:479:ILE:HD11	1.99	0.44
1:o:403:PHE:CD1	1:o:404:PRO:HD2	2.52	0.44
1:r:163:HIS:HD2	1:r:443:HIS:HD2	1.65	0.44
1:s:403:PHE:CD1	1:s:404:PRO:HD2	2.52	0.44
1:u:348:LEU:HA	1:u:384:GLN:O	2.17	0.44
1:v:403:PHE:CG	1:v:404:PRO:HD2	2.52	0.44
1:w:136:LYS:HB2	1:w:470:TYR:CE2	2.52	0.44
1:w:428:LYS:HD2	1:y:431:ILE:HD11	1.98	0.44
1:x:256:TYR:CG	1:y:221:PRO:HG3	2.51	0.44
1:y:126:MET:HE2	1:y:479:ILE:HD11	1.99	0.44
1:z:136:LYS:HB2	1:z:470:TYR:CE2	2.52	0.44
1:1:249:TRP:HH2	1:1:482:GLU:HG2	1.82	0.44
1:4:67:GLN:NE2	1:4:189:GLN:HB2	2.26	0.44
1:8:81:ASN:O	1:8:313:THR:OG1	2.31	0.44
1:8:249:TRP:HH2	1:8:482:GLU:HG2	1.82	0.44
1:8:403:PHE:CD1	1:8:404:PRO:HD2	2.52	0.44
1:B:119:LYS:O	1:B:252:ASN:N	2.46	0.44
1:B:348:LEU:HA	1:B:384:GLN:O	2.17	0.44
1:C:156:HIS:ND1	1:C:230:HIS:HE1	2.15	0.44
1:C:535:LYS:NZ	1:b:427:ASP:OD2	2.29	0.44
1:D:348:LEU:HA	1:D:384:GLN:O	2.17	0.44
1:E:126:MET:HE2	1:E:479:ILE:HD11	1.99	0.44
1:F:348:LEU:HA	1:F:384:GLN:O	2.17	0.44
1:F:428:LYS:HD2	1:Q:431:ILE:HD11	1.98	0.44
1:G:126:MET:HE2	1:G:479:ILE:HD11	1.99	0.44
1:G:136:LYS:HB2	1:G:470:TYR:CE2	2.52	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:249:TRP:HH2	1:G:482:GLU:HG2	1.82	0.44
1:H:156:HIS:ND1	1:H:230:HIS:HE1	2.15	0.44
1:H:213:GLU:HG2	1:H:328:VAL:HG23	1.98	0.44
1:I:156:HIS:ND1	1:I:230:HIS:HE1	2.15	0.44
1:I:403:PHE:CD1	1:I:404:PRO:HD2	2.52	0.44
1:I:441:MET:HE3	1:I:444:PRO:HA	1.98	0.44
1:N:136:LYS:HB2	1:N:470:TYR:CE2	2.53	0.44
1:N:267:VAL:HG23	1:N:293:LYS:NZ	2.32	0.44
1:N:403:PHE:CG	1:N:404:PRO:HD2	2.52	0.44
1:O:100:ASN:ND2	1:O:420:TRP:O	2.46	0.44
1:O:136:LYS:HB2	1:O:470:TYR:CE2	2.52	0.44
1:P:441:MET:HE3	1:P:444:PRO:HA	1.98	0.44
1:R:249:TRP:HH2	1:R:482:GLU:HG2	1.82	0.44
1:T:126:MET:HE2	1:T:479:ILE:HD11	1.99	0.44
1:T:136:LYS:HB2	1:T:470:TYR:CE2	2.53	0.44
1:U:403:PHE:CD1	1:U:404:PRO:HD2	2.52	0.44
1:W:119:LYS:O	1:W:252:ASN:N	2.47	0.44
1:Z:249:TRP:HH2	1:Z:482:GLU:HG2	1.82	0.44
1:b:403:PHE:CD1	1:b:404:PRO:HD2	2.52	0.44
1:c:249:TRP:HH2	1:c:482:GLU:HG2	1.82	0.44
1:d:403:PHE:CD1	1:d:404:PRO:HD2	2.52	0.44
1:e:180:LEU:HD22	1:h:224:MET:HE1	2.00	0.44
1:f:403:PHE:CD1	1:f:404:PRO:HD2	2.52	0.44
1:f:427:ASP:OD2	1:g:535:LYS:NZ	2.29	0.44
1:i:136:LYS:HB2	1:i:470:TYR:CE2	2.53	0.44
1:j:431:ILE:HD11	1:k:428:LYS:HD2	1.99	0.44
1:k:348:LEU:HA	1:k:384:GLN:O	2.17	0.44
1:m:136:LYS:HB2	1:m:470:TYR:CE2	2.53	0.44
1:n:100:ASN:ND2	1:n:420:TRP:O	2.47	0.44
1:n:403:PHE:CD1	1:n:404:PRO:HD2	2.52	0.44
1:p:156:HIS:ND1	1:p:230:HIS:HE1	2.15	0.44
1:q:249:TRP:HH2	1:q:482:GLU:HG2	1.82	0.44
1:r:267:VAL:HG23	1:r:293:LYS:NZ	2.32	0.44
1:t:136:LYS:HB2	1:t:470:TYR:CE2	2.52	0.44
1:u:156:HIS:ND1	1:u:230:HIS:HE1	2.15	0.44
1:u:403:PHE:CD1	1:u:404:PRO:HD2	2.52	0.44
1:u:441:MET:HE3	1:u:444:PRO:HA	1.98	0.44
1:w:306:GLY:O	1:w:355:TYR:OH	2.21	0.44
1:x:156:HIS:ND1	1:x:230:HIS:HE1	2.15	0.44
1:z:81:ASN:O	1:z:313:THR:OG1	2.31	0.44
1:z:100:ASN:ND2	1:z:420:TRP:O	2.47	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:z:348:LEU:HA	1:z:384:GLN:O	2.17	0.44
1:1:348:LEU:HA	1:1:384:GLN:O	2.17	0.44
1:2:267:VAL:HG23	1:2:293:LYS:NZ	2.32	0.44
1:4:348:LEU:HA	1:4:384:GLN:O	2.17	0.44
1:8:403:PHE:CG	1:8:404:PRO:HD2	2.52	0.44
1:A:100:ASN:ND2	1:A:420:TRP:O	2.47	0.44
1:A:126:MET:HE2	1:A:479:ILE:HD11	1.99	0.44
1:A:267:VAL:HG12	1:G:188:PHE:HD1	1.79	0.44
1:B:403:PHE:CD1	1:B:404:PRO:HD2	2.52	0.44
1:F:123:PRO:HB2	1:F:245:PHE:CG	2.53	0.44
1:F:221:PRO:HG3	1:Q:256:TYR:CG	2.51	0.44
1:H:229:ASP:OD1	1:Z:45:GLY:N	2.32	0.44
1:H:403:PHE:CD1	1:H:404:PRO:HD2	2.52	0.44
1:I:45:GLY:N	1:J:229:ASP:OD1	2.33	0.44
1:J:267:VAL:HG23	1:J:293:LYS:NZ	2.32	0.44
1:K:348:LEU:HA	1:K:384:GLN:O	2.17	0.44
1:K:403:PHE:CD1	1:K:404:PRO:HD2	2.52	0.44
1:L:156:HIS:ND1	1:L:230:HIS:HE1	2.15	0.44
1:M:126:MET:HE2	1:M:479:ILE:HD11	1.99	0.44
1:N:156:HIS:ND1	1:N:230:HIS:HE1	2.15	0.44
1:P:403:PHE:CG	1:P:404:PRO:HD2	2.52	0.44
1:Q:123:PRO:HB2	1:Q:245:PHE:CG	2.53	0.44
1:Q:126:MET:HE2	1:Q:479:ILE:HD11	1.99	0.44
1:R:221:PRO:HG3	1:U:256:TYR:CG	2.51	0.44
1:R:403:PHE:CD1	1:R:404:PRO:HD2	2.52	0.44
1:T:256:TYR:CG	1:d:221:PRO:HG3	2.52	0.44
1:T:267:VAL:HG12	1:d:188:PHE:HD1	1.81	0.44
1:T:267:VAL:HG23	1:T:293:LYS:NZ	2.32	0.44
1:W:100:ASN:ND2	1:W:420:TRP:O	2.46	0.44
1:Y:267:VAL:HG23	1:Y:293:LYS:NZ	2.32	0.44
1:Z:81:ASN:O	1:Z:313:THR:OG1	2.31	0.44
1:a:123:PRO:HB2	1:a:245:PHE:CG	2.53	0.44
1:b:163:HIS:HD2	1:b:443:HIS:HD2	1.65	0.44
1:d:126:MET:HE2	1:d:479:ILE:HD11	1.99	0.44
1:e:249:TRP:HH2	1:e:482:GLU:HG2	1.82	0.44
1:g:156:HIS:ND1	1:g:230:HIS:HE1	2.15	0.44
1:h:403:PHE:CD1	1:h:404:PRO:HD2	2.52	0.44
1:i:156:HIS:ND1	1:i:230:HIS:HE1	2.15	0.44
1:j:126:MET:HE2	1:j:479:ILE:HD11	1.99	0.44
1:k:229:ASP:OD1	1:w:45:GLY:N	2.32	0.44
1:l:136:LYS:HB2	1:l:470:TYR:CE2	2.53	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:m:267:VAL:HG23	1:m:293:LYS:NZ	2.32	0.44
1:n:126:MET:HE2	1:n:479:ILE:HD11	1.99	0.44
1:o:441:MET:HE3	1:o:444:PRO:HA	1.98	0.44
1:p:136:LYS:HB2	1:p:470:TYR:CE2	2.53	0.44
1:q:123:PRO:HB2	1:q:245:PHE:CG	2.53	0.44
1:t:126:MET:HE2	1:t:479:ILE:HD11	1.99	0.44
1:t:249:TRP:HH2	1:t:482:GLU:HG2	1.82	0.44
1:u:45:GLY:N	1:2:229:ASP:OD1	2.33	0.44
1:v:126:MET:HE2	1:v:479:ILE:HD11	1.99	0.44
1:v:403:PHE:CD1	1:v:404:PRO:HD2	2.52	0.44
1:v:441:MET:HE3	1:v:444:PRO:HA	1.98	0.44
1:w:126:MET:HE2	1:w:479:ILE:HD11	1.99	0.44
1:w:267:VAL:HG23	1:w:293:LYS:NZ	2.32	0.44
1:x:123:PRO:HB2	1:x:245:PHE:CG	2.53	0.44
1:x:431:ILE:HD11	1:y:428:LYS:HD2	1.98	0.44
1:y:123:PRO:HB2	1:y:245:PHE:CG	2.53	0.44
1:1:126:MET:HE2	1:1:479:ILE:HD11	1.99	0.44
1:1:403:PHE:CD1	1:1:404:PRO:HD2	2.52	0.44
1:3:123:PRO:HB2	1:3:245:PHE:CG	2.53	0.44
1:4:403:PHE:CD1	1:4:404:PRO:HD2	2.52	0.44
1:5:156:HIS:ND1	1:5:230:HIS:HE1	2.15	0.44
1:5:213:GLU:HG2	1:5:328:VAL:HG23	1.98	0.44
1:6:67:GLN:NE2	1:6:189:GLN:HB2	2.26	0.44
1:6:119:LYS:O	1:6:252:ASN:N	2.47	0.44
1:7:267:VAL:HG23	1:7:293:LYS:NZ	2.32	0.44
1:A:180:LEU:HD22	1:E:224:MET:HE1	2.00	0.44
1:A:403:PHE:CD1	1:A:404:PRO:HD2	2.52	0.44
1:B:126:MET:HE2	1:B:479:ILE:HD11	1.99	0.44
1:C:403:PHE:CD1	1:C:404:PRO:HD2	2.52	0.44
1:D:136:LYS:HB2	1:D:470:TYR:CE2	2.53	0.44
1:D:229:ASP:OD1	1:E:45:GLY:N	2.32	0.44
1:D:428:LYS:HD2	1:P:431:ILE:HD11	1.99	0.44
1:E:267:VAL:HG23	1:E:293:LYS:NZ	2.32	0.44
1:E:431:ILE:HD11	1:Q:428:LYS:HD2	1.99	0.44
1:J:136:LYS:HB2	1:J:470:TYR:CE2	2.52	0.44
1:K:403:PHE:CG	1:K:404:PRO:HD2	2.52	0.44
1:M:123:PRO:HB2	1:M:245:PHE:CG	2.53	0.44
1:M:403:PHE:CD1	1:M:404:PRO:HD2	2.52	0.44
1:O:405:ASN:HD21	1:m:433:ASP:C	2.26	0.44
1:P:126:MET:HE2	1:P:479:ILE:HD11	1.99	0.44
1:P:267:VAL:HG23	1:P:293:LYS:NZ	2.32	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:R:123:PRO:HB2	1:R:245:PHE:CG	2.53	0.44
1:R:188:PHE:HD1	1:U:267:VAL:HG12	1.79	0.44
1:R:267:VAL:HG23	1:R:293:LYS:NZ	2.32	0.44
1:U:123:PRO:HB2	1:U:245:PHE:CG	2.53	0.44
1:U:126:MET:HE2	1:U:479:ILE:HD11	1.99	0.44
1:V:123:PRO:HB2	1:V:245:PHE:CG	2.53	0.44
1:V:136:LYS:HB2	1:V:470:TYR:CE2	2.53	0.44
1:W:123:PRO:HB2	1:W:245:PHE:CG	2.53	0.44
1:W:403:PHE:CG	1:W:404:PRO:HD2	2.52	0.44
1:X:136:LYS:HB2	1:X:470:TYR:CE2	2.53	0.44
1:X:441:MET:HE3	1:X:444:PRO:HA	1.98	0.44
1:Y:45:GLY:N	1:4:229:ASP:OD1	2.33	0.44
1:a:249:TRP:HH2	1:a:482:GLU:HG2	1.82	0.44
1:c:123:PRO:HB2	1:c:245:PHE:CG	2.53	0.44
1:d:81:ASN:O	1:d:313:THR:OG1	2.31	0.44
1:e:267:VAL:HG23	1:e:293:LYS:NZ	2.32	0.44
1:f:119:LYS:O	1:f:252:ASN:N	2.46	0.44
1:f:163:HIS:HD2	1:f:443:HIS:HD2	1.65	0.44
1:f:431:ILE:HD11	1:h:428:LYS:HD2	1.98	0.44
1:j:267:VAL:HG23	1:j:293:LYS:NZ	2.32	0.44
1:k:136:LYS:HB2	1:k:470:TYR:CE2	2.53	0.44
1:k:156:HIS:ND1	1:k:230:HIS:HE1	2.15	0.44
1:l:100:ASN:ND2	1:l:420:TRP:O	2.47	0.44
1:o:136:LYS:HB2	1:o:470:TYR:CE2	2.53	0.44
1:p:123:PRO:HB2	1:p:245:PHE:CG	2.53	0.44
1:p:403:PHE:CD1	1:p:404:PRO:HD2	2.52	0.44
1:q:81:ASN:O	1:q:313:THR:OG1	2.31	0.44
1:q:267:VAL:HG23	1:q:293:LYS:NZ	2.32	0.44
1:q:348:LEU:HA	1:q:384:GLN:O	2.17	0.44
1:q:403:PHE:CD1	1:q:404:PRO:HD2	2.52	0.44
1:q:403:PHE:CG	1:q:404:PRO:HD2	2.52	0.44
1:r:348:LEU:HA	1:r:384:GLN:O	2.17	0.44
1:s:81:ASN:O	1:s:313:THR:OG1	2.31	0.44
1:s:123:PRO:HB2	1:s:245:PHE:CG	2.53	0.44
1:t:405:ASN:HD21	1:u:433:ASP:C	2.26	0.44
1:x:126:MET:HE2	1:x:479:ILE:HD11	1.99	0.44
1:y:348:LEU:HA	1:y:384:GLN:O	2.17	0.44
1:z:156:HIS:ND1	1:z:230:HIS:HE1	2.15	0.44
1:1:123:PRO:HB2	1:1:245:PHE:CG	2.53	0.44
1:1:163:HIS:HD2	1:1:443:HIS:HD2	1.65	0.44
1:2:136:LYS:HB2	1:2:470:TYR:CE2	2.52	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:2:403:PHE:CD1	1:2:404:PRO:HD2	2.52	0.44
1:3:249:TRP:HH2	1:3:482:GLU:HG2	1.82	0.44
1:4:403:PHE:CG	1:4:404:PRO:HD2	2.52	0.44
1:5:403:PHE:CD1	1:5:404:PRO:HD2	2.52	0.44
1:6:403:PHE:CG	1:6:404:PRO:HD2	2.52	0.44
1:8:348:LEU:HA	1:8:384:GLN:O	2.17	0.44
1:A:441:MET:HE3	1:A:444:PRO:HA	1.98	0.44
1:B:123:PRO:HB2	1:B:245:PHE:CG	2.53	0.44
1:B:267:VAL:HG23	1:B:293:LYS:NZ	2.32	0.44
1:C:123:PRO:HB2	1:C:245:PHE:CG	2.53	0.44
1:C:213:GLU:HG2	1:C:328:VAL:HG23	1.98	0.44
1:D:156:HIS:ND1	1:D:230:HIS:HE1	2.15	0.44
1:E:123:PRO:HB2	1:E:245:PHE:CG	2.53	0.44
1:F:136:LYS:HB2	1:F:470:TYR:CE2	2.53	0.44
1:G:405:ASN:HD21	1:I:433:ASP:C	2.26	0.44
1:H:123:PRO:HB2	1:H:245:PHE:CG	2.53	0.44
1:K:100:ASN:ND2	1:K:420:TRP:O	2.47	0.44
1:K:163:HIS:HD2	1:K:443:HIS:HD2	1.65	0.44
1:K:433:ASP:C	1:8:405:ASN:HD21	2.26	0.44
1:K:441:MET:HE3	1:K:444:PRO:HA	1.98	0.44
1:O:267:VAL:HG12	1:m:188:PHE:HD1	1.79	0.44
1:Q:403:PHE:CD1	1:Q:404:PRO:HD2	2.52	0.44
1:R:229:ASP:OD1	1:V:45:GLY:N	2.32	0.44
1:R:348:LEU:HA	1:R:384:GLN:O	2.17	0.44
1:S:267:VAL:HG23	1:S:293:LYS:NZ	2.32	0.44
1:V:403:PHE:CD1	1:V:404:PRO:HD2	2.52	0.44
1:W:67:GLN:NE2	1:W:189:GLN:HB2	2.26	0.44
1:Y:348:LEU:HA	1:Y:384:GLN:O	2.17	0.44
1:Z:348:LEU:HA	1:Z:384:GLN:O	2.17	0.44
1:Z:405:ASN:HD21	1:4:433:ASP:C	2.26	0.44
1:a:67:GLN:NE2	1:a:189:GLN:HB2	2.26	0.44
1:c:267:VAL:HG23	1:c:293:LYS:NZ	2.32	0.44
1:c:428:LYS:HD2	1:p:431:ILE:HD11	1.98	0.44
1:d:136:LYS:HB2	1:d:470:TYR:CE2	2.53	0.44
1:e:123:PRO:HB2	1:e:245:PHE:CG	2.53	0.44
1:e:126:MET:HE2	1:e:479:ILE:HD11	1.99	0.44
1:f:136:LYS:HB2	1:f:470:TYR:CE2	2.53	0.44
1:g:403:PHE:CD1	1:g:404:PRO:HD2	2.52	0.44
1:h:123:PRO:HB2	1:h:245:PHE:CG	2.53	0.44
1:h:136:LYS:HB2	1:h:470:TYR:CE2	2.53	0.44
1:i:123:PRO:HB2	1:i:245:PHE:CG	2.53	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:j:403:PHE:CG	1:j:404:PRO:HD2	2.52	0.44
1:k:267:VAL:HG23	1:k:293:LYS:NZ	2.32	0.44
1:n:136:LYS:HB2	1:n:470:TYR:CE2	2.52	0.44
1:o:156:HIS:ND1	1:o:230:HIS:HE1	2.15	0.44
1:o:403:PHE:CG	1:o:404:PRO:HD2	2.52	0.44
1:p:45:GLY:N	1:q:229:ASP:OD1	2.33	0.44
1:q:221:PRO:HG3	1:s:256:TYR:CG	2.51	0.44
1:s:126:MET:HE2	1:s:479:ILE:HD11	1.99	0.44
1:t:156:HIS:ND1	1:t:230:HIS:HE1	2.15	0.44
1:w:431:ILE:HD11	1:x:428:LYS:HD2	1.99	0.44
1:z:405:ASN:HD21	1:1:433:ASP:C	2.25	0.44
1:1:119:LYS:O	1:1:252:ASN:N	2.46	0.44
1:3:267:VAL:HG23	1:3:293:LYS:NZ	2.32	0.44
1:4:100:ASN:ND2	1:4:420:TRP:O	2.47	0.44
1:5:123:PRO:HB2	1:5:245:PHE:CG	2.53	0.44
1:6:100:ASN:ND2	1:6:420:TRP:O	2.46	0.44
1:6:123:PRO:HB2	1:6:245:PHE:CG	2.53	0.44
1:7:348:LEU:HA	1:7:384:GLN:O	2.17	0.44
1:8:156:HIS:ND1	1:8:230:HIS:HE1	2.15	0.44
1:A:119:LYS:O	1:A:252:ASN:N	2.46	0.44
1:B:163:HIS:HD2	1:B:443:HIS:HD2	1.65	0.44
1:B:433:ASP:C	1:L:405:ASN:HD21	2.25	0.44
1:D:123:PRO:HB2	1:D:245:PHE:CG	2.53	0.44
1:D:249:TRP:HH2	1:D:482:GLU:HG2	1.82	0.44
1:D:267:VAL:HG23	1:D:293:LYS:NZ	2.32	0.44
1:G:156:HIS:ND1	1:G:230:HIS:HE1	2.15	0.44
1:G:267:VAL:HG12	1:I:188:PHE:HD1	1.79	0.44
1:G:325:PRO:O	1:G:328:VAL:HG12	2.18	0.44
1:I:267:VAL:HG23	1:I:293:LYS:NZ	2.32	0.44
1:J:403:PHE:CD1	1:J:404:PRO:HD2	2.52	0.44
1:J:441:MET:HE3	1:J:444:PRO:HA	1.98	0.44
1:K:136:LYS:HB2	1:K:470:TYR:CE2	2.53	0.44
1:L:267:VAL:HG23	1:L:293:LYS:NZ	2.32	0.44
1:M:136:LYS:HB2	1:M:470:TYR:CE2	2.53	0.44
1:N:123:PRO:HB2	1:N:245:PHE:CG	2.53	0.44
1:O:156:HIS:ND1	1:O:230:HIS:HE1	2.15	0.44
1:P:136:LYS:HB2	1:P:470:TYR:CE2	2.53	0.44
1:P:213:GLU:HG2	1:P:328:VAL:HG23	1.98	0.44
1:R:403:PHE:CG	1:R:404:PRO:HD2	2.52	0.44
1:S:348:LEU:HA	1:S:384:GLN:O	2.17	0.44
1:W:441:MET:HE3	1:W:444:PRO:HA	1.98	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:X:163:HIS:HD2	1:X:443:HIS:HD2	1.65	0.44
1:X:403:PHE:CG	1:X:404:PRO:HD2	2.52	0.44
1:Y:100:ASN:ND2	1:Y:420:TRP:O	2.47	0.44
1:Y:136:LYS:HB2	1:Y:470:TYR:CE2	2.53	0.44
1:Z:156:HIS:ND1	1:Z:230:HIS:HE1	2.15	0.44
1:a:267:VAL:HG23	1:a:293:LYS:NZ	2.32	0.44
1:b:81:ASN:O	1:b:313:THR:OG1	2.31	0.44
1:b:136:LYS:HB2	1:b:470:TYR:CE2	2.53	0.44
1:c:126:MET:HE2	1:c:479:ILE:HD11	1.99	0.44
1:g:123:PRO:HB2	1:g:245:PHE:CG	2.53	0.44
1:g:213:GLU:HG2	1:g:328:VAL:HG23	1.98	0.44
1:g:224:MET:HE1	1:k:180:LEU:HD22	2.00	0.44
1:h:126:MET:HE2	1:h:479:ILE:HD11	1.99	0.44
1:h:267:VAL:HG23	1:h:293:LYS:NZ	2.32	0.44
1:j:136:LYS:HB2	1:j:470:TYR:CE2	2.53	0.44
1:j:213:GLU:HG2	1:j:328:VAL:HG23	1.98	0.44
1:o:163:HIS:HD2	1:o:443:HIS:HD2	1.65	0.44
1:q:156:HIS:ND1	1:q:230:HIS:HE1	2.15	0.44
1:t:325:PRO:O	1:t:328:VAL:HG12	2.18	0.44
1:u:267:VAL:HG23	1:u:293:LYS:NZ	2.32	0.44
1:v:100:ASN:ND2	1:v:420:TRP:O	2.47	0.44
1:w:123:PRO:HB2	1:w:245:PHE:CG	2.53	0.44
1:w:403:PHE:CD1	1:w:404:PRO:HD2	2.52	0.44
1:x:403:PHE:CD1	1:x:404:PRO:HD2	2.52	0.44
1:y:136:LYS:HB2	1:y:470:TYR:CE2	2.53	0.44
1:z:267:VAL:HG23	1:z:293:LYS:NZ	2.32	0.44
1:z:441:MET:HE3	1:z:444:PRO:HA	1.98	0.44
1:1:267:VAL:HG23	1:1:293:LYS:NZ	2.32	0.44
1:2:441:MET:HE3	1:2:444:PRO:HA	1.98	0.44
1:4:136:LYS:HB2	1:4:470:TYR:CE2	2.53	0.44
1:4:163:HIS:HD2	1:4:443:HIS:HD2	1.65	0.44
1:A:156:HIS:ND1	1:A:230:HIS:HE1	2.15	0.44
1:C:136:LYS:HB2	1:C:470:TYR:CE2	2.53	0.44
1:C:224:MET:HE1	1:D:180:LEU:HD22	2.00	0.44
1:E:403:PHE:CD1	1:E:404:PRO:HD2	2.52	0.44
1:F:403:PHE:CD1	1:F:404:PRO:HD2	2.52	0.44
1:G:180:LEU:HD22	1:W:224:MET:HE1	2.00	0.44
1:H:119:LYS:O	1:H:252:ASN:N	2.46	0.44
1:I:126:MET:HE2	1:I:479:ILE:HD11	1.99	0.44
1:J:163:HIS:HD2	1:J:443:HIS:HD2	1.65	0.44
1:L:403:PHE:CD1	1:L:404:PRO:HD2	2.52	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:224:MET:HE1	1:c:180:LEU:HD22	2.00	0.44
1:M:267:VAL:HG23	1:M:293:LYS:NZ	2.32	0.44
1:M:428:LYS:HD2	1:b:431:ILE:HD11	1.98	0.44
1:N:126:MET:HE2	1:N:479:ILE:HD11	1.99	0.44
1:O:180:LEU:HD22	1:P:224:MET:HE1	2.00	0.44
1:U:249:TRP:HH2	1:U:482:GLU:HG2	1.82	0.44
1:V:325:PRO:O	1:V:328:VAL:HG12	2.18	0.44
1:X:156:HIS:ND1	1:X:230:HIS:HE1	2.15	0.44
1:X:348:LEU:HA	1:X:384:GLN:O	2.17	0.44
1:b:119:LYS:O	1:b:252:ASN:N	2.46	0.44
1:f:249:TRP:HH2	1:f:482:GLU:HG2	1.82	0.44
1:i:126:MET:HE2	1:i:479:ILE:HD11	1.99	0.44
1:k:123:PRO:HB2	1:k:245:PHE:CG	2.53	0.44
1:k:249:TRP:HH2	1:k:482:GLU:HG2	1.82	0.44
1:l:156:HIS:ND1	1:l:230:HIS:HE1	2.15	0.44
1:m:123:PRO:HB2	1:m:245:PHE:CG	2.53	0.44
1:p:267:VAL:HG23	1:p:293:LYS:NZ	2.32	0.44
1:r:249:TRP:HH2	1:r:482:GLU:HG2	1.82	0.44
1:t:123:PRO:HB2	1:t:245:PHE:CG	2.53	0.44
1:t:180:LEU:HD22	1:6:224:MET:HE1	2.00	0.44
1:t:188:PHE:HD1	1:v:267:VAL:HG12	1.79	0.44
1:v:180:LEU:HD22	1:w:224:MET:HE1	2.00	0.44
1:z:403:PHE:CD1	1:z:404:PRO:HD2	2.52	0.44
1:2:163:HIS:HD2	1:2:443:HIS:HD2	1.65	0.44
1:3:67:GLN:NE2	1:3:189:GLN:HB2	2.26	0.44
1:4:441:MET:HE3	1:4:444:PRO:HA	1.98	0.44
1:6:441:MET:HE3	1:6:444:PRO:HA	1.98	0.44
1:7:100:ASN:ND2	1:7:420:TRP:O	2.47	0.44
1:7:136:LYS:HB2	1:7:470:TYR:CE2	2.53	0.44
1:A:123:PRO:HB2	1:A:245:PHE:CG	2.53	0.44
1:A:136:LYS:HB2	1:A:470:TYR:CE2	2.53	0.44
1:B:224:MET:HE1	1:C:180:LEU:HD22	2.00	0.44
1:E:325:PRO:O	1:E:328:VAL:HG12	2.18	0.44
1:E:427:ASP:OD2	1:F:535:LYS:NZ	2.28	0.44
1:G:123:PRO:HB2	1:G:245:PHE:CG	2.53	0.44
1:G:403:PHE:CG	1:G:404:PRO:HD2	2.52	0.44
1:H:224:MET:HE1	1:Z:180:LEU:HD22	2.00	0.44
1:H:249:TRP:HH2	1:H:482:GLU:HG2	1.82	0.44
1:H:292:SER:CB	1:W:85:LYS:HE2	2.41	0.44
1:H:325:PRO:O	1:H:328:VAL:HG12	2.18	0.44
1:J:123:PRO:HB2	1:J:245:PHE:CG	2.53	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:441:MET:HE3	1:L:444:PRO:HA	1.98	0.44
1:O:431:ILE:HD11	1:m:428:LYS:HD2	1.99	0.44
1:O:433:ASP:C	1:n:405:ASN:HD21	2.26	0.44
1:R:156:HIS:ND1	1:R:230:HIS:HE1	2.15	0.44
1:R:433:ASP:C	1:U:405:ASN:HD21	2.25	0.44
1:S:123:PRO:HB2	1:S:245:PHE:CG	2.53	0.44
1:S:249:TRP:HH2	1:S:482:GLU:HG2	1.82	0.44
1:T:123:PRO:HB2	1:T:245:PHE:CG	2.53	0.44
1:V:267:VAL:HG23	1:V:293:LYS:NZ	2.32	0.44
1:X:221:PRO:HG3	1:e:256:TYR:CG	2.52	0.44
1:d:405:ASN:HD21	1:l:433:ASP:C	2.26	0.44
1:g:136:LYS:HB2	1:g:470:TYR:CE2	2.53	0.44
1:n:224:MET:HE1	1:r:180:LEU:HD22	2.00	0.44
1:o:348:LEU:HA	1:o:384:GLN:O	2.17	0.44
1:p:325:PRO:O	1:p:328:VAL:HG12	2.18	0.44
1:q:188:PHE:HD1	1:s:267:VAL:HG12	1.79	0.44
1:r:123:PRO:HB2	1:r:245:PHE:CG	2.53	0.44
1:r:403:PHE:CG	1:r:404:PRO:HD2	2.52	0.44
1:t:403:PHE:CD1	1:t:404:PRO:HD2	2.52	0.44
1:t:403:PHE:CG	1:t:404:PRO:HD2	2.52	0.44
1:u:126:MET:HE2	1:u:479:ILE:HD11	1.99	0.44
1:v:156:HIS:ND1	1:v:230:HIS:HE1	2.15	0.44
1:v:213:GLU:HG2	1:v:328:VAL:HG23	1.98	0.44
1:w:325:PRO:O	1:w:328:VAL:HG12	2.18	0.44
1:y:403:PHE:CD1	1:y:404:PRO:HD2	2.52	0.44
1:3:163:HIS:HD2	1:3:443:HIS:HD2	1.65	0.44
1:3:325:PRO:O	1:3:328:VAL:HG12	2.18	0.44
1:5:249:TRP:HH2	1:5:482:GLU:HG2	1.82	0.44
1:5:325:PRO:O	1:5:328:VAL:HG12	2.18	0.44
1:6:403:PHE:CD1	1:6:404:PRO:HD2	2.52	0.44
1:8:123:PRO:HB2	1:8:245:PHE:CG	2.53	0.44
1:A:433:ASP:C	1:I:405:ASN:HD21	2.26	0.44
1:E:188:PHE:HD1	1:F:267:VAL:HG12	1.79	0.44
1:G:403:PHE:CD1	1:G:404:PRO:HD2	2.52	0.44
1:K:229:ASP:OD1	1:7:45:GLY:N	2.33	0.44
1:O:123:PRO:HB2	1:O:245:PHE:CG	2.53	0.44
1:O:267:VAL:HG23	1:O:293:LYS:NZ	2.32	0.44
1:S:126:MET:HE2	1:S:479:ILE:HD11	1.99	0.44
1:S:403:PHE:CG	1:S:404:PRO:HD2	2.52	0.44
1:T:433:ASP:C	1:l:405:ASN:HD21	2.26	0.44
1:U:325:PRO:O	1:U:328:VAL:HG12	2.18	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:X:267:VAL:HG23	1:X:293:LYS:NZ	2.32	0.44
1:Z:123:PRO:HB2	1:Z:245:PHE:CG	2.53	0.44
1:a:163:HIS:HD2	1:a:443:HIS:HD2	1.65	0.44
1:a:325:PRO:O	1:a:328:VAL:HG12	2.18	0.44
1:b:249:TRP:HH2	1:b:482:GLU:HG2	1.82	0.44
1:b:325:PRO:O	1:b:328:VAL:HG12	2.18	0.44
1:c:403:PHE:CD1	1:c:404:PRO:HD2	2.52	0.44
1:d:117:GLU:HG2	1:n:117:GLU:HG2	2.00	0.44
1:e:403:PHE:CG	1:e:404:PRO:HD2	2.52	0.44
1:f:325:PRO:O	1:f:328:VAL:HG12	2.18	0.44
1:l:123:PRO:HB2	1:l:245:PHE:CG	2.53	0.44
1:m:156:HIS:ND1	1:m:230:HIS:HE1	2.15	0.44
1:q:136:LYS:HB2	1:q:470:TYR:CE2	2.53	0.44
1:q:433:ASP:C	1:s:405:ASN:HD21	2.25	0.44
1:r:126:MET:HE2	1:r:479:ILE:HD11	1.99	0.44
1:s:249:TRP:HH2	1:s:482:GLU:HG2	1.82	0.44
1:t:267:VAL:HG12	1:u:188:PHE:HD1	1.79	0.44
1:u:405:ASN:HD21	1:v:433:ASP:C	2.26	0.44
1:v:123:PRO:HB2	1:v:245:PHE:CG	2.53	0.44
1:v:325:PRO:O	1:v:328:VAL:HG12	2.18	0.44
1:y:249:TRP:HH2	1:y:482:GLU:HG2	1.82	0.44
1:2:123:PRO:HB2	1:2:245:PHE:CG	2.53	0.44
1:3:156:HIS:ND1	1:3:230:HIS:HE1	2.15	0.44
1:3:403:PHE:CD1	1:3:404:PRO:HD2	2.52	0.44
1:5:224:MET:HE1	1:8:180:LEU:HD22	2.00	0.44
1:5:292:SER:CB	1:6:85:LYS:HE2	2.41	0.44
1:8:126:MET:HE2	1:8:479:ILE:HD11	1.99	0.44
1:A:213:GLU:HG2	1:A:328:VAL:HG23	1.98	0.43
1:A:325:PRO:O	1:A:328:VAL:HG12	2.18	0.43
1:C:163:HIS:HD2	1:C:443:HIS:HD2	1.65	0.43
1:F:249:TRP:HH2	1:F:482:GLU:HG2	1.82	0.43
1:H:180:LEU:HD22	1:I:224:MET:HE1	2.00	0.43
1:K:156:HIS:ND1	1:K:230:HIS:HE1	2.15	0.43
1:L:163:HIS:HD2	1:L:443:HIS:HD2	1.65	0.43
1:M:180:LEU:HD22	1:N:224:MET:HE1	2.00	0.43
1:O:249:TRP:HH2	1:O:482:GLU:HG2	1.82	0.43
1:P:180:LEU:HD22	1:Q:224:MET:HE1	2.00	0.43
1:R:136:LYS:HB2	1:R:470:TYR:CE2	2.53	0.43
1:T:156:HIS:ND1	1:T:230:HIS:HE1	2.15	0.43
1:U:348:LEU:HA	1:U:384:GLN:O	2.17	0.43
1:W:403:PHE:CD1	1:W:404:PRO:HD2	2.52	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:X:249:TRP:HH2	1:X:482:GLU:HG2	1.82	0.43
1:Z:126:MET:HE2	1:Z:479:ILE:HD11	1.99	0.43
1:a:136:LYS:HB2	1:a:470:TYR:CE2	2.53	0.43
1:a:403:PHE:CD1	1:a:404:PRO:HD2	2.52	0.43
1:e:403:PHE:CD1	1:e:404:PRO:HD2	2.52	0.43
1:f:81:ASN:O	1:f:313:THR:OG1	2.31	0.43
1:g:163:HIS:HD2	1:g:443:HIS:HD2	1.65	0.43
1:g:180:LEU:HD22	1:1:224:MET:HE1	2.00	0.43
1:i:433:ASP:C	1:k:405:ASN:HD21	2.26	0.43
1:j:123:PRO:HB2	1:j:245:PHE:CG	2.53	0.43
1:j:180:LEU:HD22	1:x:224:MET:HE1	2.00	0.43
1:l:126:MET:HE2	1:l:479:ILE:HD11	1.99	0.43
1:m:45:GLY:N	1:s:229:ASP:OD1	2.33	0.43
1:o:213:GLU:HG2	1:o:328:VAL:HG23	1.98	0.43
1:o:267:VAL:HG23	1:o:293:LYS:NZ	2.32	0.43
1:s:325:PRO:O	1:s:328:VAL:HG12	2.18	0.43
1:u:224:MET:HE1	1:5:180:LEU:HD22	2.00	0.43
1:v:119:LYS:O	1:v:252:ASN:N	2.46	0.43
1:v:136:LYS:HB2	1:v:470:TYR:CE2	2.53	0.43
1:x:267:VAL:HG23	1:x:293:LYS:NZ	2.32	0.43
1:z:163:HIS:HD2	1:z:443:HIS:HD2	1.65	0.43
1:3:136:LYS:HB2	1:3:470:TYR:CE2	2.53	0.43
1:5:119:LYS:O	1:5:252:ASN:N	2.46	0.43
1:B:136:LYS:HB2	1:B:470:TYR:CE2	2.53	0.43
1:D:325:PRO:O	1:D:328:VAL:HG12	2.18	0.43
1:D:405:ASN:HD21	1:N:433:ASP:C	2.26	0.43
1:F:180:LEU:HD22	1:G:224:MET:HE1	2.00	0.43
1:H:163:HIS:HD2	1:H:443:HIS:HD2	1.65	0.43
1:H:267:VAL:HG23	1:H:293:LYS:NZ	2.32	0.43
1:H:405:ASN:HD21	1:W:433:ASP:C	2.25	0.43
1:K:405:ASN:HD21	1:a:433:ASP:C	2.26	0.43
1:M:325:PRO:O	1:M:328:VAL:HG12	2.18	0.43
1:O:325:PRO:O	1:O:328:VAL:HG12	2.18	0.43
1:Q:136:LYS:HB2	1:Q:470:TYR:CE2	2.52	0.43
1:T:325:PRO:O	1:T:328:VAL:HG12	2.18	0.43
1:T:428:LYS:HD2	1:l:431:ILE:HD11	1.99	0.43
1:V:431:ILE:HD11	1:e:428:LYS:HD2	1.99	0.43
1:X:325:PRO:O	1:X:328:VAL:HG12	2.18	0.43
1:a:119:LYS:O	1:a:252:ASN:N	2.46	0.43
1:a:156:HIS:ND1	1:a:230:HIS:HE1	2.15	0.43
1:c:403:PHE:CG	1:c:404:PRO:HD2	2.52	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:h:325:PRO:O	1:h:328:VAL:HG12	2.18	0.43
1:j:224:MET:HE1	1:l:180:LEU:HD22	2.00	0.43
1:l:249:TRP:HH2	1:l:482:GLU:HG2	1.82	0.43
1:l:267:VAL:HG23	1:l:293:LYS:NZ	2.32	0.43
1:z:249:TRP:HH2	1:z:482:GLU:HG2	1.82	0.43
1:3:119:LYS:O	1:3:252:ASN:N	2.46	0.43
1:3:126:MET:HE2	1:3:479:ILE:HD11	1.99	0.43
1:4:123:PRO:HB2	1:4:245:PHE:CG	2.53	0.43
1:4:156:HIS:ND1	1:4:230:HIS:HE1	2.15	0.43
1:5:427:ASP:OD2	1:7:535:LYS:NZ	2.28	0.43
1:5:431:ILE:HD11	1:6:428:LYS:HD2	1.99	0.43
1:7:156:HIS:ND1	1:7:230:HIS:HE1	2.15	0.43
1:8:325:PRO:O	1:8:328:VAL:HG12	2.18	0.43
1:H:431:ILE:HD11	1:W:428:LYS:HD2	1.99	0.43
1:K:119:LYS:O	1:K:252:ASN:N	2.47	0.43
1:K:123:PRO:HB2	1:K:245:PHE:CG	2.53	0.43
1:L:249:TRP:HH2	1:L:482:GLU:HG2	1.82	0.43
1:O:126:MET:HE2	1:O:479:ILE:HD11	1.99	0.43
1:Q:267:VAL:HG23	1:Q:293:LYS:NZ	2.32	0.43
1:Q:325:PRO:O	1:Q:328:VAL:HG12	2.18	0.43
1:V:100:ASN:ND2	1:V:420:TRP:O	2.47	0.43
1:V:405:ASN:HD21	1:e:433:ASP:C	2.25	0.43
1:X:213:GLU:HG2	1:X:328:VAL:HG23	1.98	0.43
1:Y:81:ASN:O	1:Y:313:THR:OG1	2.31	0.43
1:Z:224:MET:HE1	1:a:180:LEU:HD22	2.00	0.43
1:Z:325:PRO:O	1:Z:328:VAL:HG12	2.18	0.43
1:a:126:MET:HE2	1:a:479:ILE:HD11	1.99	0.43
1:b:123:PRO:HB2	1:b:245:PHE:CG	2.53	0.43
1:d:156:HIS:ND1	1:d:230:HIS:HE1	2.15	0.43
1:e:156:HIS:ND1	1:e:230:HIS:HE1	2.15	0.43
1:h:180:LEU:HD22	1:i:224:MET:HE1	2.00	0.43
1:l:325:PRO:O	1:l:328:VAL:HG12	2.18	0.43
1:m:325:PRO:O	1:m:328:VAL:HG12	2.18	0.43
1:n:123:PRO:HB2	1:n:245:PHE:CG	2.53	0.43
1:n:156:HIS:ND1	1:n:230:HIS:HE1	2.15	0.43
1:o:249:TRP:HH2	1:o:482:GLU:HG2	1.82	0.43
1:o:325:PRO:O	1:o:328:VAL:HG12	2.18	0.43
1:r:403:PHE:CD1	1:r:404:PRO:HD2	2.52	0.43
1:s:136:LYS:HB2	1:s:470:TYR:CE2	2.52	0.43
1:s:348:LEU:HA	1:s:384:GLN:O	2.17	0.43
1:v:224:MET:HE1	1:1:180:LEU:HD22	2.01	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:x:136:LYS:HB2	1:x:470:TYR:CE2	2.52	0.43
1:x:325:PRO:O	1:x:328:VAL:HG12	2.18	0.43
1:1:136:LYS:HB2	1:1:470:TYR:CE2	2.53	0.43
1:3:433:ASP:C	1:4:405:ASN:HD21	2.26	0.43
1:5:267:VAL:HG23	1:5:293:LYS:NZ	2.32	0.43
1:5:405:ASN:HD21	1:6:433:ASP:C	2.25	0.43
1:A:224:MET:HE1	1:B:180:LEU:HD22	2.01	0.43
1:F:86:SER:CB	1:F:197:ASN:HD22	2.32	0.43
1:H:433:ASP:C	1:Y:405:ASN:HD21	2.26	0.43
1:I:119:LYS:O	1:I:252:ASN:N	2.47	0.43
1:K:180:LEU:HD22	1:L:224:MET:HE1	2.00	0.43
1:K:249:TRP:HH2	1:K:482:GLU:HG2	1.82	0.43
1:L:123:PRO:HB2	1:L:245:PHE:CG	2.53	0.43
1:P:123:PRO:HB2	1:P:245:PHE:CG	2.53	0.43
1:T:403:PHE:CD1	1:T:404:PRO:HD2	2.52	0.43
1:U:136:LYS:HB2	1:U:470:TYR:CE2	2.52	0.43
1:W:85:LYS:HG3	1:W:336:GLY:HA2	2.01	0.43
1:Y:156:HIS:ND1	1:Y:230:HIS:HE1	2.15	0.43
1:Y:180:LEU:HD22	1:4:224:MET:HE1	2.00	0.43
1:Z:136:LYS:HB2	1:Z:470:TYR:CE2	2.53	0.43
1:b:85:LYS:HG3	1:b:336:GLY:HA2	2.01	0.43
1:b:86:SER:CB	1:b:197:ASN:HD22	2.32	0.43
1:c:156:HIS:ND1	1:c:230:HIS:HE1	2.15	0.43
1:d:163:HIS:HD2	1:d:443:HIS:HD2	1.65	0.43
1:e:100:ASN:ND2	1:e:420:TRP:O	2.47	0.43
1:f:85:LYS:HG3	1:f:336:GLY:HA2	2.01	0.43
1:f:123:PRO:HB2	1:f:245:PHE:CG	2.53	0.43
1:f:156:HIS:ND1	1:f:230:HIS:HE1	2.15	0.43
1:h:86:SER:CB	1:h:197:ASN:HD22	2.32	0.43
1:k:325:PRO:O	1:k:328:VAL:HG12	2.18	0.43
1:m:180:LEU:HD22	1:s:224:MET:HE1	2.00	0.43
1:o:123:PRO:HB2	1:o:245:PHE:CG	2.53	0.43
1:r:156:HIS:ND1	1:r:230:HIS:HE1	2.15	0.43
1:t:224:MET:HE1	1:y:180:LEU:HD22	2.00	0.43
1:u:180:LEU:HD22	1:2:224:MET:HE1	2.00	0.43
1:v:267:VAL:HG23	1:v:293:LYS:NZ	2.32	0.43
1:w:188:PHE:HD1	1:y:267:VAL:HG12	1.79	0.43
1:w:249:TRP:HH2	1:w:482:GLU:HG2	1.82	0.43
1:z:123:PRO:HB2	1:z:245:PHE:CG	2.53	0.43
1:z:224:MET:HE1	1:4:180:LEU:HD22	2.01	0.43
1:2:119:LYS:O	1:2:252:ASN:N	2.46	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:2:325:PRO:O	1:2:328:VAL:HG12	2.18	0.43
1:3:180:LEU:HD22	1:8:224:MET:HE1	2.00	0.43
1:5:163:HIS:HD2	1:5:443:HIS:HD2	1.65	0.43
1:6:85:LYS:HG3	1:6:336:GLY:HA2	2.01	0.43
1:A:267:VAL:HG23	1:A:293:LYS:NZ	2.32	0.43
1:F:267:VAL:HG23	1:F:293:LYS:NZ	2.32	0.43
1:F:325:PRO:O	1:F:328:VAL:HG12	2.18	0.43
1:G:86:SER:CB	1:G:197:ASN:HD22	2.32	0.43
1:H:136:LYS:HB2	1:H:470:TYR:CE2	2.53	0.43
1:I:180:LEU:HD22	1:J:224:MET:HE1	2.00	0.43
1:J:325:PRO:O	1:J:328:VAL:HG12	2.18	0.43
1:O:86:SER:CB	1:O:197:ASN:HD22	2.32	0.43
1:O:218:TYR:HB3	1:d:499:ALA:O	2.19	0.43
1:S:403:PHE:CD1	1:S:404:PRO:HD2	2.52	0.43
1:W:136:LYS:HB2	1:W:470:TYR:CE2	2.53	0.43
1:W:249:TRP:HH2	1:W:482:GLU:HG2	1.82	0.43
1:X:123:PRO:HB2	1:X:245:PHE:CG	2.53	0.43
1:X:126:MET:HE2	1:X:479:ILE:HD11	1.99	0.43
1:b:156:HIS:ND1	1:b:230:HIS:HE1	2.15	0.43
1:c:86:SER:CB	1:c:197:ASN:HD22	2.32	0.43
1:c:100:ASN:ND2	1:c:420:TRP:O	2.46	0.43
1:c:123:PRO:HG3	1:c:481:TRP:CZ3	2.54	0.43
1:c:325:PRO:O	1:c:328:VAL:HG12	2.18	0.43
1:d:123:PRO:HB2	1:d:245:PHE:CG	2.53	0.43
1:e:86:SER:CB	1:e:197:ASN:HD22	2.32	0.43
1:e:123:PRO:HG3	1:e:481:TRP:CZ3	2.54	0.43
1:f:86:SER:CB	1:f:197:ASN:HD22	2.32	0.43
1:f:348:LEU:HA	1:f:384:GLN:O	2.17	0.43
1:l:67:GLN:NE2	1:l:189:GLN:HB2	2.26	0.43
1:m:403:PHE:CD1	1:m:404:PRO:HD2	2.52	0.43
1:m:405:ASN:HD21	1:n:433:ASP:C	2.26	0.43
1:o:126:MET:HE2	1:o:479:ILE:HD11	1.99	0.43
1:p:100:ASN:ND2	1:p:420:TRP:O	2.47	0.43
1:r:325:PRO:O	1:r:328:VAL:HG12	2.18	0.43
1:t:86:SER:CB	1:t:197:ASN:HD22	2.32	0.43
1:t:229:ASP:OD1	1:y:45:GLY:N	2.32	0.43
1:y:86:SER:CB	1:y:197:ASN:HD22	2.32	0.43
1:y:156:HIS:ND1	1:y:230:HIS:HE1	2.15	0.43
1:y:325:PRO:O	1:y:328:VAL:HG12	2.18	0.43
1:2:180:LEU:HD22	1:3:224:MET:HE1	2.00	0.43
1:4:119:LYS:O	1:4:252:ASN:N	2.47	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:5:86:SER:CB	1:5:197:ASN:HD22	2.32	0.43
1:5:433:ASP:C	1:7:405:ASN:HD21	2.26	0.43
1:6:86:SER:CB	1:6:197:ASN:HD22	2.32	0.43
1:6:249:TRP:HH2	1:6:482:GLU:HG2	1.82	0.43
1:7:123:PRO:HB2	1:7:245:PHE:CG	2.53	0.43
1:8:136:LYS:HB2	1:8:470:TYR:CE2	2.53	0.43
1:B:85:LYS:HG3	1:B:336:GLY:HA2	2.01	0.43
1:C:86:SER:CB	1:C:197:ASN:HD22	2.32	0.43
1:D:123:PRO:HG3	1:D:481:TRP:CZ3	2.54	0.43
1:E:86:SER:CB	1:E:197:ASN:HD22	2.32	0.43
1:E:249:TRP:HH2	1:E:482:GLU:HG2	1.82	0.43
1:F:156:HIS:ND1	1:F:230:HIS:HE1	2.15	0.43
1:H:86:SER:CB	1:H:197:ASN:HD22	2.32	0.43
1:H:187:LEU:HD13	1:H:450:ILE:CG2	2.49	0.43
1:H:221:PRO:HB2	1:H:223:PHE:CE2	2.54	0.43
1:J:180:LEU:HD22	1:a:224:MET:HE1	2.00	0.43
1:K:126:MET:HE2	1:K:479:ILE:HD11	1.99	0.43
1:K:224:MET:HE1	1:7:180:LEU:HD22	2.00	0.43
1:L:325:PRO:O	1:L:328:VAL:HG12	2.18	0.43
1:M:86:SER:CB	1:M:197:ASN:HD22	2.32	0.43
1:R:85:LYS:HG3	1:R:336:GLY:HA2	2.01	0.43
1:S:86:SER:CB	1:S:197:ASN:HD22	2.32	0.43
1:S:123:PRO:HG3	1:S:481:TRP:CZ3	2.54	0.43
1:S:156:HIS:ND1	1:S:230:HIS:HE1	2.15	0.43
1:S:325:PRO:O	1:S:328:VAL:HG12	2.18	0.43
1:T:180:LEU:HD22	1:U:224:MET:HE1	2.01	0.43
1:U:156:HIS:ND1	1:U:230:HIS:HE1	2.15	0.43
1:V:123:PRO:HG3	1:V:481:TRP:CZ3	2.54	0.43
1:W:86:SER:CB	1:W:197:ASN:HD22	2.32	0.43
1:Y:123:PRO:HB2	1:Y:245:PHE:CG	2.53	0.43
1:Y:325:PRO:O	1:Y:328:VAL:HG12	2.18	0.43
1:b:348:LEU:HA	1:b:384:GLN:O	2.17	0.43
1:d:85:LYS:HG3	1:d:336:GLY:HA2	2.01	0.43
1:e:325:PRO:O	1:e:328:VAL:HG12	2.18	0.43
1:g:86:SER:CB	1:g:197:ASN:HD22	2.32	0.43
1:k:123:PRO:HG3	1:k:481:TRP:CZ3	2.54	0.43
1:l:86:SER:CB	1:l:197:ASN:HD22	2.32	0.43
1:l:224:MET:HE1	1:n:180:LEU:HD22	2.00	0.43
1:n:85:LYS:HG3	1:n:336:GLY:HA2	2.01	0.43
1:n:163:HIS:HD2	1:n:443:HIS:HD2	1.65	0.43
1:p:224:MET:HE1	1:6:180:LEU:HD22	2.00	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:r:85:LYS:HG3	1:r:336:GLY:HA2	2.01	0.43
1:r:86:SER:CB	1:r:197:ASN:HD22	2.32	0.43
1:w:86:SER:CB	1:w:197:ASN:HD22	2.32	0.43
1:x:123:PRO:HG3	1:x:481:TRP:CZ3	2.54	0.43
1:z:86:SER:CB	1:z:197:ASN:HD22	2.32	0.43
1:1:85:LYS:HG3	1:1:336:GLY:HA2	2.01	0.43
1:4:126:MET:HE2	1:4:479:ILE:HD11	1.99	0.43
1:4:249:TRP:HH2	1:4:482:GLU:HG2	1.82	0.43
1:5:136:LYS:HB2	1:5:470:TYR:CE2	2.53	0.43
1:5:221:PRO:HB2	1:5:223:PHE:CE2	2.54	0.43
1:5:428:LYS:HD2	1:7:431:ILE:HD11	1.98	0.43
1:A:85:LYS:HG3	1:A:336:GLY:HA2	2.01	0.43
1:C:325:PRO:O	1:C:328:VAL:HG12	2.18	0.43
1:D:126:MET:HE2	1:D:479:ILE:HD11	1.99	0.43
1:F:187:LEU:HD13	1:F:450:ILE:CG2	2.49	0.43
1:F:221:PRO:HB2	1:F:223:PHE:CE2	2.54	0.43
1:H:85:LYS:HG3	1:H:336:GLY:HA2	2.01	0.43
1:H:428:LYS:HD2	1:Y:431:ILE:HD11	1.99	0.43
1:J:85:LYS:HG3	1:J:336:GLY:HA2	2.01	0.43
1:J:119:LYS:O	1:J:252:ASN:N	2.46	0.43
1:K:123:PRO:HG3	1:K:481:TRP:CZ3	2.54	0.43
1:K:325:PRO:O	1:K:328:VAL:HG12	2.18	0.43
1:L:86:SER:CB	1:L:197:ASN:HD22	2.32	0.43
1:L:126:MET:HE2	1:L:479:ILE:HD11	1.99	0.43
1:L:221:PRO:HB2	1:L:223:PHE:CE2	2.54	0.43
1:M:123:PRO:HG3	1:M:481:TRP:CZ3	2.54	0.43
1:N:123:PRO:HG3	1:N:481:TRP:CZ3	2.54	0.43
1:O:67:GLN:NE2	1:O:189:GLN:HB2	2.26	0.43
1:O:224:MET:SD	1:d:181:PRO:HD2	2.58	0.43
1:Q:123:PRO:HG3	1:Q:481:TRP:CZ3	2.54	0.43
1:Q:249:TRP:HH2	1:Q:482:GLU:HG2	1.82	0.43
1:S:85:LYS:HG3	1:S:336:GLY:HA2	2.01	0.43
1:T:45:GLY:N	1:U:229:ASP:OD1	2.33	0.43
1:T:221:PRO:HB2	1:T:223:PHE:CE2	2.54	0.43
1:V:86:SER:CB	1:V:197:ASN:HD22	2.32	0.43
1:W:156:HIS:ND1	1:W:230:HIS:HE1	2.15	0.43
1:X:86:SER:CB	1:X:197:ASN:HD22	2.32	0.43
1:c:433:ASP:C	1:p:405:ASN:HD21	2.26	0.43
1:d:123:PRO:HG3	1:d:481:TRP:CZ3	2.54	0.43
1:e:187:LEU:HD13	1:e:450:ILE:CG2	2.49	0.43
1:h:123:PRO:HG3	1:h:481:TRP:CZ3	2.54	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:i:123:PRO:HG3	1:i:481:TRP:CZ3	2.54	0.43
1:k:126:MET:HE2	1:k:479:ILE:HD11	1.99	0.43
1:n:325:PRO:O	1:n:328:VAL:HG12	2.18	0.43
1:p:123:PRO:HG3	1:p:481:TRP:CZ3	2.54	0.43
1:q:85:LYS:HG3	1:q:336:GLY:HA2	2.01	0.43
1:r:123:PRO:HG3	1:r:481:TRP:CZ3	2.54	0.43
1:s:156:HIS:ND1	1:s:230:HIS:HE1	2.15	0.43
1:v:85:LYS:HG3	1:v:336:GLY:HA2	2.01	0.43
1:y:267:VAL:HG23	1:y:293:LYS:NZ	2.32	0.43
1:z:126:MET:HE2	1:z:479:ILE:HD11	1.99	0.43
1:z:221:PRO:HB2	1:z:223:PHE:CE2	2.54	0.43
1:z:325:PRO:O	1:z:328:VAL:HG12	2.18	0.43
1:4:123:PRO:HG3	1:4:481:TRP:CZ3	2.54	0.43
1:4:325:PRO:O	1:4:328:VAL:HG12	2.18	0.43
1:5:187:LEU:HD13	1:5:450:ILE:CG2	2.49	0.43
1:6:136:LYS:HB2	1:6:470:TYR:CE2	2.53	0.43
1:7:81:ASN:O	1:7:313:THR:OG1	2.31	0.43
1:7:221:PRO:HB2	1:7:223:PHE:CE2	2.54	0.43
1:7:325:PRO:O	1:7:328:VAL:HG12	2.18	0.43
1:A:86:SER:CB	1:A:197:ASN:HD22	2.32	0.43
1:B:325:PRO:O	1:B:328:VAL:HG12	2.18	0.43
1:D:221:PRO:HB2	1:D:223:PHE:CE2	2.54	0.43
1:E:119:LYS:O	1:E:252:ASN:N	2.46	0.43
1:E:156:HIS:ND1	1:E:230:HIS:HE1	2.15	0.43
1:E:221:PRO:HB2	1:E:223:PHE:CE2	2.54	0.43
1:E:405:ASN:HD21	1:Q:433:ASP:C	2.26	0.43
1:G:187:LEU:HD13	1:G:450:ILE:CG2	2.49	0.43
1:I:249:TRP:HH2	1:I:482:GLU:HG2	1.82	0.43
1:J:123:PRO:HG3	1:J:481:TRP:CZ3	2.54	0.43
1:Q:86:SER:CB	1:Q:197:ASN:HD22	2.32	0.43
1:Q:221:PRO:HB2	1:Q:223:PHE:CE2	2.54	0.43
1:R:86:SER:CB	1:R:197:ASN:HD22	2.32	0.43
1:R:126:MET:HE2	1:R:479:ILE:HD11	1.99	0.43
1:T:85:LYS:HG3	1:T:336:GLY:HA2	2.01	0.43
1:V:224:MET:HE1	1:W:180:LEU:HD22	2.00	0.43
1:Y:221:PRO:HB2	1:Y:223:PHE:CE2	2.54	0.43
1:a:116:ASN:OD1	1:a:537:ASN:ND2	2.52	0.43
1:a:123:PRO:HG3	1:a:481:TRP:CZ3	2.54	0.43
1:c:187:LEU:HD13	1:c:450:ILE:CG2	2.49	0.43
1:e:221:PRO:HB2	1:e:223:PHE:CE2	2.54	0.43
1:g:325:PRO:O	1:g:328:VAL:HG12	2.18	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:i:306:GLY:O	1:i:355:TYR:OH	2.21	0.43
1:k:221:PRO:HB2	1:k:223:PHE:CE2	2.54	0.43
1:l:123:PRO:HG3	1:l:481:TRP:CZ3	2.54	0.43
1:n:123:PRO:HG3	1:n:481:TRP:CZ3	2.54	0.43
1:o:86:SER:CB	1:o:197:ASN:HD22	2.32	0.43
1:p:86:SER:CB	1:p:197:ASN:HD22	2.32	0.43
1:q:86:SER:CB	1:q:197:ASN:HD22	2.32	0.43
1:t:187:LEU:HD13	1:t:450:ILE:CG2	2.49	0.43
1:w:119:LYS:O	1:w:252:ASN:N	2.46	0.43
1:x:86:SER:CB	1:x:197:ASN:HD22	2.32	0.43
1:x:221:PRO:HB2	1:x:223:PHE:CE2	2.54	0.43
1:y:187:LEU:HD13	1:y:450:ILE:CG2	2.49	0.43
1:y:221:PRO:HB2	1:y:223:PHE:CE2	2.54	0.43
1:2:85:LYS:HG3	1:2:336:GLY:HA2	2.01	0.43
1:2:123:PRO:HG3	1:2:481:TRP:CZ3	2.54	0.43
1:3:116:ASN:OD1	1:3:537:ASN:ND2	2.52	0.43
1:5:85:LYS:HG3	1:5:336:GLY:HA2	2.01	0.43
1:6:156:HIS:ND1	1:6:230:HIS:HE1	2.15	0.43
1:D:433:ASP:C	1:P:405:ASN:HD21	2.25	0.43
1:E:85:LYS:HG3	1:E:336:GLY:HA2	2.01	0.43
1:F:45:GLY:N	1:G:229:ASP:OD1	2.32	0.43
1:F:100:ASN:ND2	1:F:420:TRP:O	2.47	0.43
1:I:116:ASN:OD1	1:I:537:ASN:ND2	2.52	0.43
1:L:116:ASN:OD1	1:L:537:ASN:ND2	2.52	0.43
1:N:163:HIS:HD2	1:N:443:HIS:HD2	1.65	0.43
1:O:123:PRO:HG3	1:O:481:TRP:CZ3	2.54	0.43
1:O:163:HIS:HD2	1:O:443:HIS:HD2	1.65	0.43
1:O:292:SER:CB	1:m:85:LYS:HE2	2.41	0.43
1:P:187:LEU:HD13	1:P:450:ILE:CG2	2.49	0.43
1:Q:116:ASN:OD1	1:Q:537:ASN:ND2	2.52	0.43
1:S:180:LEU:HD22	1:d:224:MET:HE1	2.01	0.43
1:S:187:LEU:HD13	1:S:450:ILE:CG2	2.49	0.43
1:U:181:PRO:HD2	1:e:224:MET:SD	2.59	0.43
1:U:187:LEU:HD13	1:U:450:ILE:CG2	2.49	0.43
1:X:187:LEU:HD13	1:X:450:ILE:CG2	2.49	0.43
1:b:187:LEU:HD13	1:b:450:ILE:CG2	2.49	0.43
1:c:85:LYS:HG3	1:c:336:GLY:HA2	2.01	0.43
1:c:221:PRO:HB2	1:c:223:PHE:CE2	2.54	0.43
1:d:325:PRO:O	1:d:328:VAL:HG12	2.18	0.43
1:e:85:LYS:HG3	1:e:336:GLY:HA2	2.01	0.43
1:g:123:PRO:HG3	1:g:481:TRP:CZ3	2.54	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:j:405:ASN:HD21	1:k:433:ASP:C	2.25	0.43
1:m:221:PRO:HB2	1:m:223:PHE:CE2	2.54	0.43
1:o:187:LEU:HD13	1:o:450:ILE:CG2	2.49	0.43
1:q:126:MET:HE2	1:q:479:ILE:HD11	1.99	0.43
1:q:405:ASN:HD21	1:r:433:ASP:C	2.26	0.43
1:r:187:LEU:HD13	1:r:450:ILE:CG2	2.49	0.43
1:s:187:LEU:HD13	1:s:450:ILE:CG2	2.49	0.43
1:u:116:ASN:OD1	1:u:537:ASN:ND2	2.52	0.43
1:v:86:SER:CB	1:v:197:ASN:HD22	2.32	0.43
1:w:156:HIS:ND1	1:w:230:HIS:HE1	2.15	0.43
1:w:221:PRO:HB2	1:w:223:PHE:CE2	2.54	0.43
1:w:405:ASN:HD21	1:x:433:ASP:C	2.26	0.43
1:x:116:ASN:OD1	1:x:537:ASN:ND2	2.52	0.43
1:x:249:TRP:HH2	1:x:482:GLU:HG2	1.82	0.43
1:z:433:ASP:C	1:2:405:ASN:HD21	2.26	0.43
1:1:325:PRO:O	1:1:328:VAL:HG12	2.18	0.43
1:3:123:PRO:HG3	1:3:481:TRP:CZ3	2.54	0.43
1:6:325:PRO:O	1:6:328:VAL:HG12	2.18	0.43
1:A:123:PRO:HG3	1:A:481:TRP:CZ3	2.54	0.43
1:A:221:PRO:HB2	1:A:223:PHE:CE2	2.54	0.43
1:A:405:ASN:HD21	1:G:433:ASP:C	2.26	0.43
1:C:85:LYS:HG3	1:C:336:GLY:HA2	2.01	0.43
1:C:123:PRO:HG3	1:C:481:TRP:CZ3	2.54	0.43
1:E:123:PRO:HG3	1:E:481:TRP:CZ3	2.54	0.43
1:G:85:LYS:HG3	1:G:336:GLY:HA2	2.01	0.43
1:G:221:PRO:HB2	1:G:223:PHE:CE2	2.54	0.43
1:H:427:ASP:OD2	1:Y:535:LYS:NZ	2.28	0.43
1:I:85:LYS:HG3	1:I:336:GLY:HA2	2.01	0.43
1:I:163:HIS:HD2	1:I:443:HIS:HD2	1.65	0.43
1:K:116:ASN:OD1	1:K:537:ASN:ND2	2.52	0.43
1:K:221:PRO:HB2	1:K:223:PHE:CE2	2.54	0.43
1:P:513:THR:HG22	1:P:514:TYR:CD2	2.54	0.43
1:S:181:PRO:HD2	1:d:224:MET:SD	2.59	0.43
1:W:325:PRO:O	1:W:328:VAL:HG12	2.18	0.43
1:X:513:THR:HG22	1:X:514:TYR:CD2	2.54	0.43
1:a:100:ASN:ND2	1:a:420:TRP:O	2.47	0.43
1:f:85:LYS:HE2	1:g:292:SER:CB	2.40	0.43
1:f:187:LEU:HD13	1:f:450:ILE:CG2	2.49	0.43
1:g:85:LYS:HG3	1:g:336:GLY:HA2	2.01	0.43
1:i:86:SER:CB	1:i:197:ASN:HD22	2.32	0.43
1:i:163:HIS:HD2	1:i:443:HIS:HD2	1.65	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:j:187:LEU:HD13	1:j:450:ILE:CG2	2.49	0.43
1:j:513:THR:HG22	1:j:514:TYR:CD2	2.54	0.43
1:l:163:HIS:HD2	1:l:443:HIS:HD2	1.65	0.43
1:o:123:PRO:HG3	1:o:481:TRP:CZ3	2.54	0.43
1:r:221:PRO:HB2	1:r:223:PHE:CE2	2.54	0.43
1:s:513:THR:HG22	1:s:514:TYR:CD2	2.54	0.43
1:t:221:PRO:HB2	1:t:223:PHE:CE2	2.54	0.43
1:u:85:LYS:HG3	1:u:336:GLY:HA2	2.01	0.43
1:u:249:TRP:HH2	1:u:482:GLU:HG2	1.82	0.43
1:v:123:PRO:HG3	1:v:481:TRP:CZ3	2.54	0.43
1:v:221:PRO:HB2	1:v:223:PHE:CE2	2.54	0.43
1:w:85:LYS:HG3	1:w:336:GLY:HA2	2.01	0.43
1:x:187:LEU:HD13	1:x:450:ILE:CG2	2.49	0.43
1:z:116:ASN:OD1	1:z:537:ASN:ND2	2.52	0.43
1:z:123:PRO:HG3	1:z:481:TRP:CZ3	2.54	0.43
1:1:116:ASN:OD1	1:1:537:ASN:ND2	2.52	0.43
1:4:116:ASN:OD1	1:4:537:ASN:ND2	2.52	0.43
1:4:221:PRO:HB2	1:4:223:PHE:CE2	2.54	0.43
1:8:123:PRO:HG3	1:8:481:TRP:CZ3	2.54	0.43
1:B:116:ASN:OD1	1:B:537:ASN:ND2	2.52	0.42
1:C:433:ASP:C	1:M:405:ASN:HD21	2.25	0.42
1:D:224:MET:HE1	1:E:180:LEU:HD22	2.00	0.42
1:H:81:ASN:O	1:H:313:THR:OG1	2.31	0.42
1:I:221:PRO:HB2	1:I:223:PHE:CE2	2.54	0.42
1:J:187:LEU:HD13	1:J:450:ILE:CG2	2.49	0.42
1:J:405:ASN:HD21	1:L:433:ASP:C	2.26	0.42
1:K:86:SER:CB	1:K:197:ASN:HD22	2.32	0.42
1:L:45:GLY:N	1:b:229:ASP:OD1	2.33	0.42
1:L:123:PRO:HG3	1:L:481:TRP:CZ3	2.54	0.42
1:N:86:SER:CB	1:N:197:ASN:HD22	2.32	0.42
1:P:325:PRO:O	1:P:328:VAL:HG12	2.18	0.42
1:Q:100:ASN:ND2	1:Q:420:TRP:O	2.47	0.42
1:Q:163:HIS:HD2	1:Q:443:HIS:HD2	1.65	0.42
1:Q:180:LEU:HD22	1:S:224:MET:HE1	2.00	0.42
1:Q:187:LEU:HD13	1:Q:450:ILE:CG2	2.49	0.42
1:R:325:PRO:O	1:R:328:VAL:HG12	2.18	0.42
1:W:123:PRO:HG3	1:W:481:TRP:CZ3	2.54	0.42
1:W:513:THR:HG22	1:W:514:TYR:CD2	2.55	0.42
1:X:119:LYS:O	1:X:252:ASN:N	2.47	0.42
1:X:123:PRO:HG3	1:X:481:TRP:CZ3	2.54	0.42
1:Y:126:MET:HE2	1:Y:479:ILE:HD11	1.99	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:c:224:MET:HE1	1:s:180:LEU:HD22	2.01	0.42
1:j:221:PRO:HB2	1:j:223:PHE:CE2	2.54	0.42
1:k:224:MET:HE1	1:w:180:LEU:HD22	2.00	0.42
1:m:85:LYS:HG3	1:m:336:GLY:HA2	2.01	0.42
1:o:119:LYS:O	1:o:252:ASN:N	2.47	0.42
1:o:513:THR:HG22	1:o:514:TYR:CD2	2.54	0.42
1:p:180:LEU:HD22	1:q:224:MET:HE1	2.00	0.42
1:r:292:SER:CB	1:s:85:LYS:HE2	2.41	0.42
1:s:221:PRO:HB2	1:s:223:PHE:CE2	2.54	0.42
1:t:85:LYS:HG3	1:t:336:GLY:HA2	2.01	0.42
1:u:513:THR:HG22	1:u:514:TYR:CD2	2.54	0.42
1:w:123:PRO:HG3	1:w:481:TRP:CZ3	2.54	0.42
1:x:100:ASN:ND2	1:x:420:TRP:O	2.47	0.42
1:x:163:HIS:HD2	1:x:443:HIS:HD2	1.65	0.42
1:z:67:GLN:NE2	1:z:189:GLN:HB2	2.26	0.42
1:z:187:LEU:HD13	1:z:450:ILE:CG2	2.49	0.42
1:3:221:PRO:HB2	1:3:223:PHE:CE2	2.54	0.42
1:3:410:ARG:O	1:3:535:LYS:NZ	2.38	0.42
1:4:86:SER:CB	1:4:197:ASN:HD22	2.32	0.42
1:6:163:HIS:HD2	1:6:443:HIS:HD2	1.65	0.42
1:6:513:THR:HG22	1:6:514:TYR:CD2	2.55	0.42
1:7:126:MET:HE2	1:7:479:ILE:HD11	1.99	0.42
1:A:513:THR:HG22	1:A:514:TYR:CD2	2.54	0.42
1:B:513:THR:HG22	1:B:514:TYR:CD2	2.54	0.42
1:C:116:ASN:OD1	1:C:537:ASN:ND2	2.52	0.42
1:C:292:SER:CB	1:b:85:LYS:HE2	2.40	0.42
1:E:433:ASP:C	1:F:405:ASN:HD21	2.26	0.42
1:F:85:LYS:HG3	1:F:336:GLY:HA2	2.01	0.42
1:I:123:PRO:HB2	1:I:245:PHE:CG	2.53	0.42
1:I:513:THR:HG22	1:I:514:TYR:CD2	2.54	0.42
1:K:513:THR:HG22	1:K:514:TYR:CD2	2.55	0.42
1:L:187:LEU:HD13	1:L:450:ILE:CG2	2.49	0.42
1:L:513:THR:HG22	1:L:514:TYR:CD2	2.54	0.42
1:M:119:LYS:O	1:M:252:ASN:N	2.47	0.42
1:M:513:THR:HG22	1:M:514:TYR:CD2	2.54	0.42
1:P:123:PRO:HG3	1:P:481:TRP:CZ3	2.54	0.42
1:P:221:PRO:HB2	1:P:223:PHE:CE2	2.54	0.42
1:R:123:PRO:HG3	1:R:481:TRP:CZ3	2.54	0.42
1:R:224:MET:HE1	1:V:180:LEU:HD22	2.00	0.42
1:R:405:ASN:HD21	1:S:433:ASP:C	2.26	0.42
1:S:221:PRO:HB2	1:S:223:PHE:CE2	2.54	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:T:85:LYS:HE2	1:l:292:SER:CB	2.41	0.42
1:T:123:PRO:HG3	1:T:481:TRP:CZ3	2.54	0.42
1:U:221:PRO:HB2	1:U:223:PHE:CE2	2.54	0.42
1:U:513:THR:HG22	1:U:514:TYR:CD2	2.54	0.42
1:X:180:LEU:HD22	1:Y:224:MET:HE1	2.00	0.42
1:X:221:PRO:HB2	1:X:223:PHE:CE2	2.54	0.42
1:Z:123:PRO:HG3	1:Z:481:TRP:CZ3	2.54	0.42
1:Z:188:PHE:HD1	1:3:267:VAL:HG12	1.79	0.42
1:a:221:PRO:HB2	1:a:223:PHE:CE2	2.54	0.42
1:a:267:VAL:HG12	1:8:188:PHE:HD1	1.79	0.42
1:f:126:MET:HE2	1:f:479:ILE:HD11	1.99	0.42
1:f:410:ARG:O	1:f:535:LYS:NZ	2.38	0.42
1:i:85:LYS:HG3	1:i:336:GLY:HA2	2.01	0.42
1:j:325:PRO:O	1:j:328:VAL:HG12	2.18	0.42
1:o:180:LEU:HD22	1:7:224:MET:HE1	2.00	0.42
1:q:123:PRO:HG3	1:q:481:TRP:CZ3	2.54	0.42
1:q:221:PRO:HB2	1:q:223:PHE:CE2	2.54	0.42
1:q:325:PRO:O	1:q:328:VAL:HG12	2.18	0.42
1:r:224:MET:HE1	1:x:180:LEU:HD22	2.00	0.42
1:t:123:PRO:HG3	1:t:481:TRP:CZ3	2.54	0.42
1:t:433:ASP:C	1:v:405:ASN:HD21	2.26	0.42
1:u:221:PRO:HB2	1:u:223:PHE:CE2	2.54	0.42
1:v:116:ASN:OD1	1:v:537:ASN:ND2	2.52	0.42
1:v:513:THR:HG22	1:v:514:TYR:CD2	2.54	0.42
1:y:100:ASN:ND2	1:y:420:TRP:O	2.47	0.42
1:1:513:THR:HG22	1:1:514:TYR:CD2	2.54	0.42
1:2:187:LEU:HD13	1:2:450:ILE:CG2	2.49	0.42
1:4:513:THR:HG22	1:4:514:TYR:CD2	2.55	0.42
1:5:81:ASN:O	1:5:313:THR:OG1	2.31	0.42
1:6:123:PRO:HG3	1:6:481:TRP:CZ3	2.54	0.42
1:7:123:PRO:HG3	1:7:481:TRP:CZ3	2.54	0.42
1:A:116:ASN:OD1	1:A:537:ASN:ND2	2.52	0.42
1:A:187:LEU:HD13	1:A:450:ILE:CG2	2.49	0.42
1:B:187:LEU:HD13	1:B:450:ILE:CG2	2.49	0.42
1:D:85:LYS:HG3	1:D:336:GLY:HA2	2.01	0.42
1:D:86:SER:CB	1:D:197:ASN:HD22	2.32	0.42
1:E:116:ASN:OD1	1:E:537:ASN:ND2	2.52	0.42
1:E:187:LEU:HD13	1:E:450:ILE:CG2	2.49	0.42
1:G:116:ASN:OD1	1:G:537:ASN:ND2	2.52	0.42
1:G:123:PRO:HG3	1:G:481:TRP:CZ3	2.54	0.42
1:I:187:LEU:HD13	1:I:450:ILE:CG2	2.49	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:85:LYS:HG3	1:M:336:GLY:HA2	2.01	0.42
1:N:85:LYS:HG3	1:N:336:GLY:HA2	2.01	0.42
1:O:221:PRO:HB2	1:O:223:PHE:CE2	2.54	0.42
1:P:163:HIS:HD2	1:P:443:HIS:HD2	1.65	0.42
1:Q:85:LYS:HG3	1:Q:336:GLY:HA2	2.01	0.42
1:Q:115:THR:O	1:Q:252:ASN:ND2	2.53	0.42
1:S:100:ASN:ND2	1:S:420:TRP:O	2.47	0.42
1:U:180:LEU:HD22	1:e:224:MET:HE1	2.01	0.42
1:Y:123:PRO:HG3	1:Y:481:TRP:CZ3	2.54	0.42
1:Z:433:ASP:C	1:3:405:ASN:HD21	2.26	0.42
1:a:410:ARG:O	1:a:535:LYS:NZ	2.38	0.42
1:b:126:MET:HE2	1:b:479:ILE:HD11	1.99	0.42
1:b:180:LEU:HD22	1:o:224:MET:HE1	2.00	0.42
1:d:513:THR:HG22	1:d:514:TYR:CD2	2.54	0.42
1:f:67:GLN:NE2	1:f:189:GLN:HB2	2.26	0.42
1:g:116:ASN:OD1	1:g:537:ASN:ND2	2.52	0.42
1:g:513:THR:HG22	1:g:514:TYR:CD2	2.54	0.42
1:j:123:PRO:HG3	1:j:481:TRP:CZ3	2.54	0.42
1:k:85:LYS:HG3	1:k:336:GLY:HA2	2.01	0.42
1:k:187:LEU:HD13	1:k:450:ILE:CG2	2.49	0.42
1:l:221:PRO:HB2	1:l:223:PHE:CE2	2.54	0.42
1:m:123:PRO:HG3	1:m:481:TRP:CZ3	2.54	0.42
1:n:513:THR:HG22	1:n:514:TYR:CD2	2.54	0.42
1:o:221:PRO:HB2	1:o:223:PHE:CE2	2.54	0.42
1:p:67:GLN:NE2	1:p:189:GLN:HB2	2.26	0.42
1:q:163:HIS:HD2	1:q:443:HIS:HD2	1.65	0.42
1:t:85:LYS:HE2	1:v:292:SER:CB	2.40	0.42
1:u:163:HIS:HD2	1:u:443:HIS:HD2	1.65	0.42
1:u:187:LEU:HD13	1:u:450:ILE:CG2	2.49	0.42
1:x:115:THR:O	1:x:252:ASN:ND2	2.53	0.42
1:y:85:LYS:HG3	1:y:336:GLY:HA2	2.01	0.42
1:z:513:THR:HG22	1:z:514:TYR:CD2	2.54	0.42
1:1:187:LEU:HD13	1:1:450:ILE:CG2	2.49	0.42
1:3:100:ASN:ND2	1:3:420:TRP:O	2.47	0.42
1:7:513:THR:HG22	1:7:514:TYR:CD2	2.55	0.42
1:B:86:SER:CB	1:B:197:ASN:HD22	2.32	0.42
1:C:115:THR:O	1:C:252:ASN:ND2	2.53	0.42
1:C:267:VAL:HG23	1:C:293:LYS:HZ1	1.85	0.42
1:C:513:THR:HG22	1:C:514:TYR:CD2	2.54	0.42
1:D:116:ASN:OD1	1:D:537:ASN:ND2	2.52	0.42
1:E:513:THR:HG22	1:E:514:TYR:CD2	2.54	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:O:116:ASN:OD1	1:O:537:ASN:ND2	2.52	0.42
1:R:221:PRO:HB2	1:R:223:PHE:CE2	2.54	0.42
1:S:115:THR:O	1:S:252:ASN:ND2	2.53	0.42
1:S:292:SER:CB	1:U:85:LYS:HE2	2.41	0.42
1:V:187:LEU:HD13	1:V:450:ILE:CG2	2.49	0.42
1:V:513:THR:HG22	1:V:514:TYR:CD2	2.54	0.42
1:W:163:HIS:HD2	1:W:443:HIS:HD2	1.65	0.42
1:W:187:LEU:HD13	1:W:450:ILE:CG2	2.49	0.42
1:X:224:MET:HE1	1:f:180:LEU:HD22	2.00	0.42
1:X:433:ASP:C	1:e:405:ASN:HD21	2.26	0.42
1:Y:116:ASN:OD1	1:Y:537:ASN:ND2	2.52	0.42
1:Y:513:THR:HG22	1:Y:514:TYR:CD2	2.55	0.42
1:a:513:THR:HG22	1:a:514:TYR:CD2	2.55	0.42
1:b:116:ASN:OD1	1:b:537:ASN:ND2	2.52	0.42
1:c:513:THR:HG22	1:c:514:TYR:CD2	2.54	0.42
1:d:221:PRO:HB2	1:d:223:PHE:CE2	2.54	0.42
1:e:513:THR:HG22	1:e:514:TYR:CD2	2.54	0.42
1:g:115:THR:O	1:g:252:ASN:ND2	2.53	0.42
1:g:187:LEU:HD13	1:g:450:ILE:CG2	2.49	0.42
1:g:433:ASP:C	1:h:405:ASN:HD21	2.26	0.42
1:h:513:THR:HG22	1:h:514:TYR:CD2	2.55	0.42
1:k:86:SER:CB	1:k:197:ASN:HD22	2.32	0.42
1:l:116:ASN:OD1	1:l:537:ASN:ND2	2.52	0.42
1:l:187:LEU:HD13	1:l:450:ILE:CG2	2.49	0.42
1:n:221:PRO:HB2	1:n:223:PHE:CE2	2.54	0.42
1:p:85:LYS:HG3	1:p:336:GLY:HA2	2.01	0.42
1:r:115:THR:O	1:r:252:ASN:ND2	2.53	0.42
1:t:45:GLY:N	1:6:229:ASP:OD1	2.32	0.42
1:t:116:ASN:OD1	1:t:537:ASN:ND2	2.52	0.42
1:u:123:PRO:HB2	1:u:245:PHE:CG	2.53	0.42
1:u:325:PRO:O	1:u:328:VAL:HG12	2.18	0.42
1:v:45:GLY:N	1:w:229:ASP:OD1	2.32	0.42
1:w:116:ASN:OD1	1:w:537:ASN:ND2	2.52	0.42
1:w:187:LEU:HD13	1:w:450:ILE:CG2	2.49	0.42
1:w:433:ASP:C	1:y:405:ASN:HD21	2.26	0.42
1:w:513:THR:HG22	1:w:514:TYR:CD2	2.54	0.42
1:x:85:LYS:HG3	1:x:336:GLY:HA2	2.01	0.42
1:z:85:LYS:HG3	1:z:336:GLY:HA2	2.01	0.42
1:3:86:SER:CB	1:3:197:ASN:HD22	2.32	0.42
1:5:123:PRO:HG3	1:5:481:TRP:CZ3	2.54	0.42
1:6:187:LEU:HD13	1:6:450:ILE:CG2	2.49	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:292:SER:CB	1:G:85:LYS:HE2	2.40	0.42
1:C:187:LEU:HD13	1:C:450:ILE:CG2	2.49	0.42
1:D:187:LEU:HD13	1:D:450:ILE:CG2	2.49	0.42
1:H:123:PRO:HG3	1:H:481:TRP:CZ3	2.54	0.42
1:I:86:SER:CB	1:I:197:ASN:HD22	2.32	0.42
1:I:123:PRO:HG3	1:I:481:TRP:CZ3	2.54	0.42
1:I:325:PRO:O	1:I:328:VAL:HG12	2.18	0.42
1:L:67:GLN:NE2	1:L:189:GLN:HB2	2.26	0.42
1:N:115:THR:O	1:N:252:ASN:ND2	2.53	0.42
1:N:325:PRO:O	1:N:328:VAL:HG12	2.18	0.42
1:O:187:LEU:HD13	1:O:450:ILE:CG2	2.49	0.42
1:P:116:ASN:OD1	1:P:537:ASN:ND2	2.52	0.42
1:R:163:HIS:HD2	1:R:443:HIS:HD2	1.65	0.42
1:S:513:THR:HG22	1:S:514:TYR:CD2	2.55	0.42
1:T:68:ASN:HD21	1:T:91:THR:CB	2.33	0.42
1:U:86:SER:CB	1:U:197:ASN:HD22	2.32	0.42
1:V:85:LYS:HG3	1:V:336:GLY:HA2	2.01	0.42
1:W:306:GLY:O	1:W:355:TYR:OH	2.21	0.42
1:X:68:ASN:HD21	1:X:91:THR:CB	2.33	0.42
1:X:224:MET:SD	1:f:181:PRO:HD2	2.60	0.42
1:Z:116:ASN:OD1	1:Z:537:ASN:ND2	2.52	0.42
1:a:86:SER:CB	1:a:197:ASN:HD22	2.32	0.42
1:a:405:ASN:HD21	1:8:433:ASP:C	2.26	0.42
1:b:117:GLU:HG2	1:c:117:GLU:HG2	2.02	0.42
1:b:181:PRO:HD2	1:o:224:MET:SD	2.60	0.42
1:c:116:ASN:OD1	1:c:537:ASN:ND2	2.52	0.42
1:f:116:ASN:OD1	1:f:537:ASN:ND2	2.52	0.42
1:h:68:ASN:HD21	1:h:91:THR:CB	2.33	0.42
1:h:85:LYS:HG3	1:h:336:GLY:HA2	2.01	0.42
1:h:119:LYS:O	1:h:252:ASN:N	2.47	0.42
1:h:221:PRO:HB2	1:h:223:PHE:CE2	2.54	0.42
1:i:116:ASN:OD1	1:i:537:ASN:ND2	2.52	0.42
1:k:116:ASN:OD1	1:k:537:ASN:ND2	2.52	0.42
1:p:513:THR:HG22	1:p:514:TYR:CD2	2.54	0.42
1:r:513:THR:HG22	1:r:514:TYR:CD2	2.54	0.42
1:v:187:LEU:HD13	1:v:450:ILE:CG2	2.49	0.42
1:1:123:PRO:HG3	1:1:481:TRP:CZ3	2.54	0.42
1:3:513:THR:HG22	1:3:514:TYR:CD2	2.55	0.42
1:7:116:ASN:OD1	1:7:537:ASN:ND2	2.52	0.42
1:8:187:LEU:HD13	1:8:450:ILE:CG2	2.49	0.42
1:A:45:GLY:N	1:E:229:ASP:OD1	2.32	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:221:PRO:HB2	1:C:223:PHE:CE2	2.54	0.42
1:D:513:THR:HG22	1:D:514:TYR:CD2	2.55	0.42
1:F:188:PHE:HD1	1:Q:267:VAL:HG12	1.79	0.42
1:F:433:ASP:C	1:Q:405:ASN:HD21	2.26	0.42
1:G:513:THR:HG22	1:G:514:TYR:CD2	2.54	0.42
1:H:513:THR:HG22	1:H:514:TYR:CD2	2.54	0.42
1:J:68:ASN:HD21	1:J:91:THR:CB	2.33	0.42
1:L:85:LYS:HG3	1:L:336:GLY:HA2	2.01	0.42
1:L:115:THR:O	1:L:252:ASN:ND2	2.53	0.42
1:M:68:ASN:HD21	1:M:91:THR:CB	2.33	0.42
1:M:116:ASN:OD1	1:M:537:ASN:ND2	2.52	0.42
1:M:221:PRO:HB2	1:M:223:PHE:CE2	2.54	0.42
1:N:221:PRO:HB2	1:N:223:PHE:CE2	2.54	0.42
1:O:513:THR:HG22	1:O:514:TYR:CD2	2.54	0.42
1:P:85:LYS:HG3	1:P:336:GLY:HA2	2.01	0.42
1:R:187:LEU:HD13	1:R:450:ILE:CG2	2.49	0.42
1:S:116:ASN:OD1	1:S:537:ASN:ND2	2.52	0.42
1:U:123:PRO:HG3	1:U:481:TRP:CZ3	2.54	0.42
1:Y:187:LEU:HD13	1:Y:450:ILE:CG2	2.49	0.42
1:Z:187:LEU:HD13	1:Z:450:ILE:CG2	2.49	0.42
1:b:123:PRO:HG3	1:b:481:TRP:CZ3	2.54	0.42
1:c:163:HIS:HD2	1:c:443:HIS:HD2	1.65	0.42
1:c:405:ASN:HD21	1:o:433:ASP:C	2.26	0.42
1:e:116:ASN:OD1	1:e:537:ASN:ND2	2.52	0.42
1:f:123:PRO:HG3	1:f:481:TRP:CZ3	2.54	0.42
1:f:229:ASP:OD1	1:z:45:GLY:N	2.33	0.42
1:g:81:ASN:O	1:g:313:THR:OG1	2.31	0.42
1:g:221:PRO:HB2	1:g:223:PHE:CE2	2.54	0.42
1:h:116:ASN:OD1	1:h:537:ASN:ND2	2.52	0.42
1:i:221:PRO:HB2	1:i:223:PHE:CE2	2.54	0.42
1:i:325:PRO:O	1:i:328:VAL:HG12	2.18	0.42
1:j:85:LYS:HG3	1:j:336:GLY:HA2	2.01	0.42
1:j:116:ASN:OD1	1:j:537:ASN:ND2	2.52	0.42
1:j:163:HIS:HD2	1:j:443:HIS:HD2	1.65	0.42
1:m:116:ASN:OD1	1:m:537:ASN:ND2	2.52	0.42
1:n:187:LEU:HD13	1:n:450:ILE:CG2	2.49	0.42
1:o:68:ASN:HD21	1:o:91:THR:CB	2.33	0.42
1:p:187:LEU:HD13	1:p:450:ILE:CG2	2.49	0.42
1:q:187:LEU:HD13	1:q:450:ILE:CG2	2.49	0.42
1:r:100:ASN:ND2	1:r:420:TRP:O	2.47	0.42
1:r:116:ASN:OD1	1:r:537:ASN:ND2	2.52	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:t:513:THR:HG22	1:t:514:TYR:CD2	2.54	0.42
1:u:86:SER:CB	1:u:197:ASN:HD22	2.32	0.42
1:u:123:PRO:HG3	1:u:481:TRP:CZ3	2.54	0.42
1:z:115:THR:O	1:z:252:ASN:ND2	2.53	0.42
1:1:86:SER:CB	1:1:197:ASN:HD22	2.32	0.42
1:1:221:PRO:HB2	1:1:223:PHE:CE2	2.54	0.42
1:2:68:ASN:HD21	1:2:91:THR:CB	2.33	0.42
1:3:187:LEU:HD13	1:3:450:ILE:CG2	2.49	0.42
1:7:187:LEU:HD13	1:7:450:ILE:CG2	2.49	0.42
1:8:116:ASN:OD1	1:8:537:ASN:ND2	2.52	0.42
1:A:68:ASN:HD21	1:A:91:THR:CB	2.33	0.42
1:B:123:PRO:HG3	1:B:481:TRP:CZ3	2.54	0.42
1:B:221:PRO:HB2	1:B:223:PHE:CE2	2.54	0.42
1:F:181:PRO:HD2	1:G:224:MET:SD	2.60	0.42
1:G:45:GLY:N	1:W:229:ASP:OD1	2.32	0.42
1:L:68:ASN:HD21	1:L:91:THR:CB	2.33	0.42
1:N:116:ASN:OD1	1:N:537:ASN:ND2	2.52	0.42
1:N:513:THR:HG22	1:N:514:TYR:CD2	2.55	0.42
1:Q:68:ASN:HD21	1:Q:91:THR:CB	2.33	0.42
1:R:116:ASN:OD1	1:R:537:ASN:ND2	2.52	0.42
1:T:187:LEU:HD13	1:T:450:ILE:CG2	2.49	0.42
1:V:67:GLN:NE2	1:V:189:GLN:HB2	2.26	0.42
1:V:115:THR:O	1:V:252:ASN:ND2	2.53	0.42
1:V:221:PRO:HB2	1:V:223:PHE:CE2	2.54	0.42
1:W:221:PRO:HB2	1:W:223:PHE:CE2	2.54	0.42
1:Z:85:LYS:HG3	1:Z:336:GLY:HA2	2.01	0.42
1:Z:86:SER:CB	1:Z:197:ASN:HD22	2.32	0.42
1:Z:224:MET:SD	1:a:181:PRO:HD2	2.60	0.42
1:a:187:LEU:HD13	1:a:450:ILE:CG2	2.49	0.42
1:b:67:GLN:NE2	1:b:189:GLN:HB2	2.26	0.42
1:b:410:ARG:O	1:b:535:LYS:NZ	2.38	0.42
1:d:187:LEU:HD13	1:d:450:ILE:CG2	2.49	0.42
1:f:224:MET:HE1	1:z:180:LEU:HD22	2.01	0.42
1:i:115:THR:O	1:i:252:ASN:ND2	2.53	0.42
1:k:513:THR:HG22	1:k:514:TYR:CD2	2.55	0.42
1:m:68:ASN:HD21	1:m:91:THR:CB	2.33	0.42
1:m:86:SER:CB	1:m:197:ASN:HD22	2.32	0.42
1:m:187:LEU:HD13	1:m:450:ILE:CG2	2.49	0.42
1:n:86:SER:CB	1:n:197:ASN:HD22	2.32	0.42
1:p:221:PRO:HB2	1:p:223:PHE:CE2	2.54	0.42
1:q:180:LEU:HD22	1:y:224:MET:HE1	2.01	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:r:180:LEU:HD11	1:r:522:TYR:HB2	2.02	0.42
1:s:86:SER:CB	1:s:197:ASN:HD22	2.32	0.42
1:v:68:ASN:HD21	1:v:91:THR:CB	2.33	0.42
1:y:67:GLN:NE2	1:y:189:GLN:HB2	2.26	0.42
1:z:68:ASN:HD21	1:z:91:THR:CB	2.33	0.42
1:3:85:LYS:HG3	1:3:336:GLY:HA2	2.01	0.42
1:3:181:PRO:HD2	1:8:224:MET:SD	2.60	0.42
1:5:513:THR:HG22	1:5:514:TYR:CD2	2.54	0.42
1:A:81:ASN:O	1:A:313:THR:OG1	2.31	0.42
1:C:405:ASN:HD21	1:b:433:ASP:C	2.26	0.42
1:F:116:ASN:OD1	1:F:537:ASN:ND2	2.52	0.42
1:G:180:LEU:HD11	1:G:522:TYR:HB2	2.02	0.42
1:H:68:ASN:HD21	1:H:91:THR:CB	2.33	0.42
1:H:115:THR:O	1:H:252:ASN:ND2	2.53	0.42
1:J:86:SER:CB	1:J:197:ASN:HD22	2.32	0.42
1:K:115:THR:O	1:K:252:ASN:ND2	2.53	0.42
1:L:180:LEU:HD22	1:b:224:MET:HE1	2.01	0.42
1:N:68:ASN:HD21	1:N:91:THR:CB	2.33	0.42
1:N:187:LEU:HD13	1:N:450:ILE:CG2	2.49	0.42
1:T:116:ASN:OD1	1:T:537:ASN:ND2	2.52	0.42
1:T:181:PRO:HD2	1:U:224:MET:SD	2.60	0.42
1:V:116:ASN:OD1	1:V:537:ASN:ND2	2.52	0.42
1:Y:115:THR:O	1:Y:252:ASN:ND2	2.53	0.42
1:a:85:LYS:HG3	1:a:336:GLY:HA2	2.01	0.42
1:b:45:GLY:N	1:o:229:ASP:OD1	2.32	0.42
1:b:109:GLN:HE22	1:c:494:GLU:CG	2.29	0.42
1:c:224:MET:SD	1:s:181:PRO:HD2	2.60	0.42
1:d:86:SER:CB	1:d:197:ASN:HD22	2.32	0.42
1:e:117:GLU:HG2	1:f:117:GLU:HG2	2.02	0.42
1:f:433:ASP:C	1:g:405:ASN:HD21	2.26	0.42
1:i:513:THR:HG22	1:i:514:TYR:CD2	2.54	0.42
1:l:115:THR:O	1:l:252:ASN:ND2	2.53	0.42
1:l:513:THR:HG22	1:l:514:TYR:CD2	2.54	0.42
1:o:85:LYS:HG3	1:o:336:GLY:HA2	2.01	0.42
1:p:115:THR:O	1:p:252:ASN:ND2	2.53	0.42
1:q:116:ASN:OD1	1:q:537:ASN:ND2	2.52	0.42
1:s:123:PRO:HG3	1:s:481:TRP:CZ3	2.54	0.42
1:t:68:ASN:HD21	1:t:91:THR:CB	2.33	0.42
1:t:224:MET:SD	1:y:181:PRO:HD2	2.60	0.42
1:v:115:THR:O	1:v:252:ASN:ND2	2.53	0.42
1:x:68:ASN:HD21	1:x:91:THR:CB	2.33	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:x:267:VAL:HG12	1:y:188:PHE:HD1	1.79	0.42
1:x:405:ASN:HD21	1:y:433:ASP:C	2.26	0.42
1:y:116:ASN:OD1	1:y:537:ASN:ND2	2.52	0.42
1:4:115:THR:O	1:4:252:ASN:ND2	2.53	0.42
1:5:68:ASN:HD21	1:5:91:THR:CB	2.33	0.42
1:6:221:PRO:HB2	1:6:223:PHE:CE2	2.54	0.42
1:8:85:LYS:HG3	1:8:336:GLY:HA2	2.01	0.42
1:8:86:SER:CB	1:8:197:ASN:HD22	2.32	0.42
1:A:224:MET:SD	1:B:181:PRO:HD2	2.60	0.42
1:B:48[B]:HIS:CD2	1:B:57:LYS:HZ1	2.38	0.42
1:B:188:PHE:HD1	1:L:267:VAL:HG12	1.79	0.42
1:G:68:ASN:HD21	1:G:91:THR:CB	2.33	0.42
1:K:181:PRO:HD2	1:L:224:MET:SD	2.60	0.42
1:K:187:LEU:HD13	1:K:450:ILE:CG2	2.49	0.42
1:L:180:LEU:HD11	1:L:522:TYR:HB2	2.02	0.42
1:M:180:LEU:HB2	1:M:183:LYS:HG3	2.02	0.42
1:O:85:LYS:HG3	1:O:336:GLY:HA2	2.01	0.42
1:O:115:THR:O	1:O:252:ASN:ND2	2.53	0.42
1:P:68:ASN:HD21	1:P:91:THR:CB	2.33	0.42
1:P:86:SER:CB	1:P:197:ASN:HD22	2.32	0.42
1:S:180:LEU:HD11	1:S:522:TYR:HB2	2.02	0.42
1:T:86:SER:CB	1:T:197:ASN:HD22	2.32	0.42
1:U:116:ASN:OD1	1:U:537:ASN:ND2	2.52	0.42
1:W:116:ASN:OD1	1:W:537:ASN:ND2	2.52	0.42
1:Z:221:PRO:HB2	1:Z:223:PHE:CE2	2.54	0.42
1:a:68:ASN:HD21	1:a:91:THR:CB	2.33	0.42
1:a:180:LEU:HD11	1:a:522:TYR:HB2	2.02	0.42
1:c:68:ASN:HD21	1:c:91:THR:CB	2.33	0.42
1:e:68:ASN:HD21	1:e:91:THR:CB	2.33	0.42
1:e:163:HIS:HD2	1:e:443:HIS:HD2	1.65	0.42
1:f:221:PRO:HB2	1:f:223:PHE:CE2	2.54	0.42
1:i:68:ASN:HD21	1:i:91:THR:CB	2.33	0.42
1:i:187:LEU:HD13	1:i:450:ILE:CG2	2.49	0.42
1:j:68:ASN:HD21	1:j:91:THR:CB	2.33	0.42
1:m:181:PRO:HD2	1:s:224:MET:SD	2.60	0.42
1:p:116:ASN:OD1	1:p:537:ASN:ND2	2.52	0.42
1:r:405:ASN:HD21	1:s:433:ASP:C	2.26	0.42
1:s:116:ASN:OD1	1:s:537:ASN:ND2	2.52	0.42
1:t:180:LEU:HD11	1:t:522:TYR:HB2	2.02	0.42
1:v:81:ASN:O	1:v:313:THR:OG1	2.31	0.42
1:v:224:MET:SD	1:1:181:PRO:HD2	2.60	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:x:513:THR:HG22	1:x:514:TYR:CD2	2.54	0.42
1:z:180:LEU:HD11	1:z:522:TYR:HB2	2.02	0.42
1:z:224:MET:SD	1:4:181:PRO:HD2	2.60	0.42
1:2:116:ASN:OD1	1:2:537:ASN:ND2	2.52	0.42
1:3:180:LEU:HD11	1:3:522:TYR:HB2	2.02	0.42
1:5:115:THR:O	1:5:252:ASN:ND2	2.53	0.42
1:7:115:THR:O	1:7:252:ASN:ND2	2.53	0.42
1:A:115:THR:O	1:A:252:ASN:ND2	2.53	0.42
1:B:405:ASN:HD21	1:J:433:ASP:C	2.26	0.42
1:F:224:MET:HE1	1:R:180:LEU:HD22	2.01	0.42
1:H:116:ASN:OD1	1:H:537:ASN:ND2	2.52	0.42
1:H:224:MET:SD	1:Z:181:PRO:HD2	2.60	0.42
1:J:116:ASN:OD1	1:J:537:ASN:ND2	2.52	0.42
1:J:221:PRO:HB2	1:J:223:PHE:CE2	2.54	0.42
1:O:181:PRO:HD2	1:P:224:MET:SD	2.60	0.42
1:Q:513:THR:HG22	1:Q:514:TYR:CD2	2.54	0.42
1:R:513:THR:HG22	1:R:514:TYR:CD2	2.54	0.42
1:S:405:ASN:HD21	1:U:433:ASP:C	2.26	0.42
1:T:224:MET:HE1	1:i:180:LEU:HD22	2.00	0.42
1:U:68:ASN:HD21	1:U:91:THR:CB	2.33	0.42
1:V:68:ASN:HD21	1:V:91:THR:CB	2.33	0.42
1:W:115:THR:O	1:W:252:ASN:ND2	2.53	0.42
1:X:85:LYS:HG3	1:X:336:GLY:HA2	2.01	0.42
1:X:100:ASN:ND2	1:X:420:TRP:O	2.46	0.42
1:Y:303:PHE:HB3	1:Y:319:TYR:CE2	2.55	0.42
1:Z:68:ASN:HD21	1:Z:91:THR:CB	2.33	0.42
1:b:221:PRO:HB2	1:b:223:PHE:CE2	2.54	0.42
1:d:180:LEU:HD11	1:d:522:TYR:HB2	2.02	0.42
1:g:45:GLY:N	1:1:229:ASP:OD1	2.33	0.42
1:i:180:LEU:HB2	1:i:183:LYS:HG3	2.02	0.42
1:i:405:ASN:HD21	1:j:433:ASP:C	2.26	0.42
1:j:86:SER:CB	1:j:197:ASN:HD22	2.32	0.42
1:j:180:LEU:HD11	1:j:522:TYR:HB2	2.02	0.42
1:k:180:LEU:HD11	1:k:522:TYR:HB2	2.02	0.42
1:n:180:LEU:HD11	1:n:522:TYR:HB2	2.02	0.42
1:q:513:THR:HG22	1:q:514:TYR:CD2	2.54	0.42
1:r:224:MET:SD	1:x:181:PRO:HD2	2.60	0.42
1:2:86:SER:CB	1:2:197:ASN:HD22	2.32	0.42
1:2:221:PRO:HB2	1:2:223:PHE:CE2	2.54	0.42
1:3:68:ASN:HD21	1:3:91:THR:CB	2.33	0.42
1:3:115:THR:O	1:3:252:ASN:ND2	2.53	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:5:116:ASN:OD1	1:5:537:ASN:ND2	2.52	0.42
1:5:224:MET:SD	1:8:181:PRO:HD2	2.60	0.42
1:6:115:THR:O	1:6:252:ASN:ND2	2.53	0.42
1:6:116:ASN:OD1	1:6:537:ASN:ND2	2.52	0.42
1:7:68:ASN:HD21	1:7:91:THR:CB	2.33	0.42
1:7:303:PHE:HB3	1:7:319:TYR:CE2	2.55	0.42
1:8:68:ASN:HD21	1:8:91:THR:CB	2.33	0.42
1:8:221:PRO:HB2	1:8:223:PHE:CE2	2.54	0.42
1:D:180:LEU:HD11	1:D:522:TYR:HB2	2.02	0.41
1:E:68:ASN:HD21	1:E:91:THR:CB	2.33	0.41
1:E:100:ASN:ND2	1:E:420:TRP:O	2.47	0.41
1:F:67:GLN:NE2	1:F:189:GLN:HB2	2.26	0.41
1:F:303:PHE:HB3	1:F:319:TYR:CE2	2.55	0.41
1:G:181:PRO:HD2	1:W:224:MET:SD	2.60	0.41
1:I:180:LEU:HD11	1:I:522:TYR:HB2	2.02	0.41
1:M:181:PRO:HD2	1:N:224:MET:SD	2.60	0.41
1:N:180:LEU:HB2	1:N:183:LYS:HG3	2.02	0.41
1:P:180:LEU:HD11	1:P:522:TYR:HB2	2.02	0.41
1:P:303:PHE:HB3	1:P:319:TYR:CE2	2.55	0.41
1:Q:181:PRO:HD2	1:S:224:MET:SD	2.60	0.41
1:V:180:LEU:HD11	1:V:522:TYR:HB2	2.02	0.41
1:W:303:PHE:HB3	1:W:319:TYR:CE2	2.55	0.41
1:Y:68:ASN:HD21	1:Y:91:THR:CB	2.33	0.41
1:a:115:THR:O	1:a:252:ASN:ND2	2.53	0.41
1:d:303:PHE:HB3	1:d:319:TYR:CE2	2.55	0.41
1:f:513:THR:HG22	1:f:514:TYR:CD2	2.54	0.41
1:g:188:PHE:HD1	1:h:267:VAL:HG12	1.79	0.41
1:h:115:THR:O	1:h:252:ASN:ND2	2.53	0.41
1:j:303:PHE:HB3	1:j:319:TYR:CE2	2.55	0.41
1:l:68:ASN:HD21	1:l:91:THR:CB	2.33	0.41
1:l:85:LYS:HG3	1:l:336:GLY:HA2	2.01	0.41
1:n:224:MET:SD	1:r:181:PRO:HD2	2.60	0.41
1:n:303:PHE:HB3	1:n:319:TYR:CE2	2.55	0.41
1:o:100:ASN:ND2	1:o:420:TRP:O	2.46	0.41
1:s:68:ASN:HD21	1:s:91:THR:CB	2.33	0.41
1:t:181:PRO:HD2	1:6:224:MET:SD	2.60	0.41
1:u:181:PRO:HD2	1:2:224:MET:SD	2.60	0.41
1:2:513:THR:HG22	1:2:514:TYR:CD2	2.54	0.41
1:4:180:LEU:HD11	1:4:522:TYR:HB2	2.02	0.41
1:4:187:LEU:HD13	1:4:450:ILE:CG2	2.49	0.41
1:6:303:PHE:HB3	1:6:319:TYR:CE2	2.55	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:7:85:LYS:HG3	1:7:336:GLY:HA2	2.01	0.41
1:C:188:PHE:HD1	1:M:267:VAL:HG12	1.79	0.41
1:F:123:PRO:HG3	1:F:481:TRP:CZ3	2.54	0.41
1:F:513:THR:HG22	1:F:514:TYR:CD2	2.54	0.41
1:J:180:LEU:HD11	1:J:522:TYR:HB2	2.02	0.41
1:J:513:THR:HG22	1:J:514:TYR:CD2	2.54	0.41
1:K:68:ASN:HD21	1:K:91:THR:CB	2.33	0.41
1:K:180:LEU:HD11	1:K:522:TYR:HB2	2.02	0.41
1:L:303:PHE:HB3	1:L:319:TYR:CE2	2.56	0.41
1:M:303:PHE:HB3	1:M:319:TYR:CE2	2.55	0.41
1:N:180:LEU:HD22	1:m:224:MET:HE1	2.00	0.41
1:N:405:ASN:HD21	1:P:433:ASP:C	2.26	0.41
1:O:68:ASN:HD21	1:O:91:THR:CB	2.33	0.41
1:T:303:PHE:HB3	1:T:319:TYR:CE2	2.55	0.41
1:T:455:ILE:HD12	1:T:469:ILE:HD13	2.03	0.41
1:U:117:GLU:HG2	1:V:117:GLU:HG2	2.02	0.41
1:X:116:ASN:OD1	1:X:537:ASN:ND2	2.52	0.41
1:Y:86:SER:CB	1:Y:197:ASN:HD22	2.32	0.41
1:a:117:GLU:HG2	1:3:117:GLU:HG2	2.02	0.41
1:b:513:THR:HG22	1:b:514:TYR:CD2	2.54	0.41
1:e:181:PRO:HD2	1:h:224:MET:SD	2.59	0.41
1:e:494:GLU:CG	1:f:109:GLN:HE22	2.30	0.41
1:f:68:ASN:HD21	1:f:91:THR:CB	2.33	0.41
1:h:180:LEU:HB2	1:h:183:LYS:HG3	2.02	0.41
1:h:303:PHE:HB3	1:h:319:TYR:CE2	2.55	0.41
1:j:224:MET:SD	1:l:181:PRO:HD2	2.60	0.41
1:n:68:ASN:HD21	1:n:91:THR:CB	2.33	0.41
1:n:116:ASN:OD1	1:n:537:ASN:ND2	2.52	0.41
1:n:410:ARG:O	1:n:535:LYS:NZ	2.38	0.41
1:o:116:ASN:OD1	1:o:537:ASN:ND2	2.52	0.41
1:p:68:ASN:HD21	1:p:91:THR:CB	2.33	0.41
1:p:117:GLU:HG2	1:s:117:GLU:HG2	2.02	0.41
1:p:180:LEU:HD11	1:p:522:TYR:HB2	2.02	0.41
1:u:180:LEU:HD11	1:u:522:TYR:HB2	2.02	0.41
1:w:68:ASN:HD21	1:w:91:THR:CB	2.33	0.41
1:w:303:PHE:HB3	1:w:319:TYR:CE2	2.55	0.41
1:z:303:PHE:HB3	1:z:319:TYR:CE2	2.55	0.41
1:1:68:ASN:HD21	1:1:91:THR:CB	2.33	0.41
1:1:405:ASN:HD21	1:2:433:ASP:C	2.26	0.41
1:4:85:LYS:HG3	1:4:336:GLY:HA2	2.01	0.41
1:B:68:ASN:HD21	1:B:91:THR:CB	2.33	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:267:VAL:HG12	1:J:188:PHE:HD1	1.79	0.41
1:E:180:LEU:HD11	1:E:522:TYR:HB2	2.02	0.41
1:E:303:PHE:HB3	1:E:319:TYR:CE2	2.55	0.41
1:F:224:MET:SD	1:R:181:PRO:HD2	2.60	0.41
1:H:181:PRO:HD2	1:I:224:MET:SD	2.60	0.41
1:H:533:PRO:HG2	1:H:536:THR:HG21	2.03	0.41
1:J:303:PHE:HB3	1:J:319:TYR:CE2	2.55	0.41
1:M:81:ASN:O	1:M:313:THR:OG1	2.31	0.41
1:Q:117:GLU:HG2	1:R:117:GLU:HG2	2.02	0.41
1:T:180:LEU:HD11	1:T:522:TYR:HB2	2.02	0.41
1:T:499:ALA:O	1:U:218:TYR:HB3	2.20	0.41
1:U:85:LYS:HG3	1:U:336:GLY:HA2	2.01	0.41
1:V:433:ASP:C	1:X:405:ASN:HD21	2.25	0.41
1:W:455:ILE:HD12	1:W:469:ILE:HD13	2.03	0.41
1:Y:85:LYS:HG3	1:Y:336:GLY:HA2	2.01	0.41
1:a:303:PHE:HB3	1:a:319:TYR:CE2	2.55	0.41
1:a:455:ILE:HD12	1:a:469:ILE:HD13	2.03	0.41
1:b:68:ASN:HD21	1:b:91:THR:CB	2.33	0.41
1:d:68:ASN:HD21	1:d:91:THR:CB	2.33	0.41
1:d:116:ASN:OD1	1:d:537:ASN:ND2	2.52	0.41
1:d:274:TYR:O	1:l:308:ARG:HD2	2.20	0.41
1:l:533:PRO:HG2	1:l:536:THR:HG21	2.03	0.41
1:m:499:ALA:O	1:s:218:TYR:HB3	2.20	0.41
1:r:303:PHE:HB3	1:r:319:TYR:CE2	2.55	0.41
1:s:85:LYS:HG3	1:s:336:GLY:HA2	2.01	0.41
1:s:115:THR:O	1:s:252:ASN:ND2	2.53	0.41
1:u:224:MET:SD	1:5:181:PRO:HD2	2.60	0.41
1:w:180:LEU:HD11	1:w:522:TYR:HB2	2.02	0.41
1:y:303:PHE:HB3	1:y:319:TYR:CE2	2.56	0.41
1:y:513:THR:HG22	1:y:514:TYR:CD2	2.54	0.41
1:1:115:THR:O	1:1:252:ASN:ND2	2.53	0.41
1:2:180:LEU:HD11	1:2:522:TYR:HB2	2.02	0.41
1:2:303:PHE:HB3	1:2:319:TYR:CE2	2.55	0.41
1:3:303:PHE:HB3	1:3:319:TYR:CE2	2.55	0.41
1:4:68:ASN:HD21	1:4:91:THR:CB	2.33	0.41
1:6:180:LEU:HD11	1:6:522:TYR:HB2	2.02	0.41
1:6:455:ILE:HD12	1:6:469:ILE:HD13	2.03	0.41
1:B:115:THR:O	1:B:252:ASN:ND2	2.53	0.41
1:B:533:PRO:HG2	1:B:536:THR:HG21	2.03	0.41
1:C:303:PHE:HB3	1:C:319:TYR:CE2	2.55	0.41
1:C:533:PRO:HG2	1:C:536:THR:HG21	2.03	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:81:ASN:ND2	1:D:313:THR:HG21	2.36	0.41
1:E:115:THR:O	1:E:252:ASN:ND2	2.53	0.41
1:F:218:TYR:HB3	1:R:499:ALA:O	2.21	0.41
1:F:533:PRO:HG2	1:F:536:THR:HG21	2.03	0.41
1:H:180:LEU:HD11	1:H:522:TYR:HB2	2.02	0.41
1:I:181:PRO:HD2	1:J:224:MET:SD	2.60	0.41
1:I:358:GLN:NE2	1:I:371:ASN:HD22	2.19	0.41
1:J:455:ILE:HD12	1:J:469:ILE:HD13	2.03	0.41
1:K:85:LYS:HG3	1:K:336:GLY:HA2	2.01	0.41
1:O:533:PRO:HG2	1:O:536:THR:HG21	2.03	0.41
1:P:358:GLN:NE2	1:P:371:ASN:HD22	2.19	0.41
1:Q:303:PHE:HB3	1:Q:319:TYR:CE2	2.56	0.41
1:Q:358:GLN:NE2	1:Q:371:ASN:HD22	2.19	0.41
1:R:224:MET:SD	1:V:181:PRO:HD2	2.60	0.41
1:S:303:PHE:HB3	1:S:319:TYR:CE2	2.55	0.41
1:T:115:THR:O	1:T:252:ASN:ND2	2.53	0.41
1:U:115:THR:O	1:U:252:ASN:ND2	2.53	0.41
1:W:180:LEU:HD11	1:W:522:TYR:HB2	2.02	0.41
1:X:115:THR:O	1:X:252:ASN:ND2	2.53	0.41
1:X:229:ASP:OD1	1:f:45:GLY:N	2.32	0.41
1:b:115:THR:O	1:b:252:ASN:ND2	2.53	0.41
1:b:303:PHE:HB3	1:b:319:TYR:CE2	2.55	0.41
1:b:358:GLN:NE2	1:b:371:ASN:HD22	2.19	0.41
1:e:455:ILE:HD12	1:e:469:ILE:HD13	2.03	0.41
1:f:303:PHE:HB3	1:f:319:TYR:CE2	2.55	0.41
1:f:358:GLN:NE2	1:f:371:ASN:HD22	2.19	0.41
1:g:303:PHE:HB3	1:g:319:TYR:CE2	2.55	0.41
1:h:181:PRO:HD2	1:i:224:MET:SD	2.60	0.41
1:j:115:THR:O	1:j:252:ASN:ND2	2.53	0.41
1:j:358:GLN:NE2	1:j:371:ASN:HD22	2.19	0.41
1:k:81:ASN:ND2	1:k:313:THR:HG21	2.36	0.41
1:l:303:PHE:HB3	1:l:319:TYR:CE2	2.55	0.41
1:m:303:PHE:HB3	1:m:319:TYR:CE2	2.56	0.41
1:m:455:ILE:HD12	1:m:469:ILE:HD13	2.03	0.41
1:m:533:PRO:HG2	1:m:536:THR:HG21	2.03	0.41
1:n:115:THR:O	1:n:252:ASN:ND2	2.53	0.41
1:p:181:PRO:HD2	1:q:224:MET:SD	2.60	0.41
1:q:68:ASN:HD21	1:q:91:THR:CB	2.33	0.41
1:q:117:GLU:HG2	1:x:117:GLU:HG2	2.02	0.41
1:t:115:THR:O	1:t:252:ASN:ND2	2.53	0.41
1:t:292:SER:CB	1:u:85:LYS:HE2	2.41	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:u:358:GLN:NE2	1:u:371:ASN:HD22	2.19	0.41
1:v:181:PRO:HD2	1:w:224:MET:SD	2.60	0.41
1:w:100:ASN:ND2	1:w:420:TRP:O	2.47	0.41
1:w:115:THR:O	1:w:252:ASN:ND2	2.53	0.41
1:x:303:PHE:HB3	1:x:319:TYR:CE2	2.56	0.41
1:x:358:GLN:NE2	1:x:371:ASN:HD22	2.19	0.41
1:y:123:PRO:HG3	1:y:481:TRP:CZ3	2.54	0.41
1:y:533:PRO:HG2	1:y:536:THR:HG21	2.03	0.41
1:z:267:VAL:HG12	1:1:188:PHE:HD1	1.79	0.41
1:1:267:VAL:HG12	1:2:188:PHE:HD1	1.79	0.41
1:2:455:ILE:HD12	1:2:469:ILE:HD13	2.03	0.41
1:3:455:ILE:HD12	1:3:469:ILE:HD13	2.03	0.41
1:4:303:PHE:HB3	1:4:319:TYR:CE2	2.56	0.41
1:5:533:PRO:HG2	1:5:536:THR:HG21	2.03	0.41
1:7:86:SER:CB	1:7:197:ASN:HD22	2.32	0.41
1:A:181:PRO:HD2	1:E:224:MET:SD	2.60	0.41
1:B:229:ASP:OD1	1:C:45:GLY:N	2.33	0.41
1:C:68:ASN:HD21	1:C:91:THR:CB	2.33	0.41
1:F:499:ALA:O	1:G:218:TYR:HB3	2.21	0.41
1:K:81:ASN:ND2	1:K:313:THR:HG21	2.36	0.41
1:K:303:PHE:HB3	1:K:319:TYR:CE2	2.56	0.41
1:M:100:ASN:ND2	1:M:420:TRP:O	2.46	0.41
1:O:102:TYR:CE2	1:O:413:ILE:HD12	2.56	0.41
1:O:303:PHE:HB3	1:O:319:TYR:CE2	2.55	0.41
1:O:358:GLN:NE2	1:O:371:ASN:HD22	2.19	0.41
1:O:499:ALA:O	1:P:218:TYR:HB3	2.21	0.41
1:P:115:THR:O	1:P:252:ASN:ND2	2.53	0.41
1:Q:499:ALA:O	1:S:218:TYR:HB3	2.21	0.41
1:R:68:ASN:HD21	1:R:91:THR:CB	2.33	0.41
1:R:303:PHE:HB3	1:R:319:TYR:CE2	2.56	0.41
1:T:405:ASN:HD21	1:d:433:ASP:C	2.28	0.41
1:T:533:PRO:HG2	1:T:536:THR:HG21	2.03	0.41
1:U:81:ASN:ND2	1:U:313:THR:HG21	2.36	0.41
1:U:180:LEU:HD11	1:U:522:TYR:HB2	2.02	0.41
1:V:455:ILE:HD12	1:V:469:ILE:HD13	2.03	0.41
1:X:455:ILE:HD12	1:X:469:ILE:HD13	2.03	0.41
1:Z:115:THR:O	1:Z:252:ASN:ND2	2.53	0.41
1:Z:513:THR:HG22	1:Z:514:TYR:CD2	2.54	0.41
1:c:180:LEU:HD11	1:c:522:TYR:HB2	2.02	0.41
1:c:455:ILE:HD12	1:c:469:ILE:HD13	2.03	0.41
1:d:115:THR:O	1:d:252:ASN:ND2	2.53	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:f:115:THR:O	1:f:252:ASN:ND2	2.53	0.41
1:g:533:PRO:HG2	1:g:536:THR:HG21	2.03	0.41
1:h:100:ASN:ND2	1:h:420:TRP:O	2.46	0.41
1:h:533:PRO:HG2	1:h:536:THR:HG21	2.03	0.41
1:i:533:PRO:HG2	1:i:536:THR:HG21	2.03	0.41
1:j:181:PRO:HD2	1:x:224:MET:SD	2.60	0.41
1:j:218:TYR:HB3	1:l:499:ALA:O	2.21	0.41
1:k:68:ASN:HD21	1:k:91:THR:CB	2.33	0.41
1:l:102:TYR:CE2	1:l:413:ILE:HD12	2.56	0.41
1:l:358:GLN:NE2	1:l:371:ASN:HD22	2.19	0.41
1:m:513:THR:HG22	1:m:514:TYR:CD2	2.55	0.41
1:n:358:GLN:NE2	1:n:371:ASN:HD22	2.19	0.41
1:o:115:THR:O	1:o:252:ASN:ND2	2.53	0.41
1:o:181:PRO:HD2	1:7:224:MET:SD	2.60	0.41
1:o:405:ASN:HD21	1:p:433:ASP:C	2.25	0.41
1:o:455:ILE:HD12	1:o:469:ILE:HD13	2.03	0.41
1:p:455:ILE:HD12	1:p:469:ILE:HD13	2.03	0.41
1:p:533:PRO:HG2	1:p:536:THR:HG21	2.03	0.41
1:q:181:PRO:HD2	1:y:224:MET:SD	2.60	0.41
1:q:303:PHE:HB3	1:q:319:TYR:CE2	2.56	0.41
1:r:218:TYR:HB3	1:x:499:ALA:O	2.21	0.41
1:s:180:LEU:HD11	1:s:522:TYR:HB2	2.02	0.41
1:y:102:TYR:CE2	1:y:413:ILE:HD12	2.56	0.41
1:1:533:PRO:HG2	1:1:536:THR:HG21	2.03	0.41
1:5:180:LEU:HD11	1:5:522:TYR:HB2	2.02	0.41
1:8:102:TYR:CE2	1:8:413:ILE:HD12	2.56	0.41
1:8:180:LEU:HD11	1:8:522:TYR:HB2	2.02	0.41
1:A:81:ASN:ND2	1:A:313:THR:HG21	2.36	0.41
1:A:180:LEU:HB2	1:A:183:LYS:HG3	2.02	0.41
1:A:303:PHE:HB3	1:A:319:TYR:CE2	2.55	0.41
1:B:180:LEU:HD11	1:B:522:TYR:HB2	2.02	0.41
1:D:68:ASN:HD21	1:D:91:THR:CB	2.33	0.41
1:G:81:ASN:ND2	1:G:313:THR:HG21	2.36	0.41
1:G:115:THR:O	1:G:252:ASN:ND2	2.53	0.41
1:G:303:PHE:HB3	1:G:319:TYR:CE2	2.55	0.41
1:I:68:ASN:HD21	1:I:91:THR:CB	2.33	0.41
1:J:181:PRO:HD2	1:a:224:MET:SD	2.60	0.41
1:J:267:VAL:HG12	1:L:188:PHE:HD1	1.79	0.41
1:K:102:TYR:CE2	1:K:413:ILE:HD12	2.56	0.41
1:K:224:MET:SD	1:7:181:PRO:HD2	2.60	0.41
1:M:187:LEU:HD13	1:M:450:ILE:CG2	2.49	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:433:ASP:C	1:b:405:ASN:HD21	2.26	0.41
1:M:533:PRO:HG2	1:M:536:THR:HG21	2.03	0.41
1:N:181:PRO:HD2	1:m:224:MET:SD	2.60	0.41
1:N:533:PRO:HG2	1:N:536:THR:HG21	2.03	0.41
1:O:218:TYR:O	1:d:499:ALA:HB1	2.21	0.41
1:P:181:PRO:HD2	1:Q:224:MET:SD	2.60	0.41
1:Q:81:ASN:ND2	1:Q:313:THR:HG21	2.36	0.41
1:S:358:GLN:NE2	1:S:371:ASN:HD22	2.19	0.41
1:S:499:ALA:O	1:d:218:TYR:HB3	2.21	0.41
1:T:513:THR:HG22	1:T:514:TYR:CD2	2.54	0.41
1:U:358:GLN:NE2	1:U:371:ASN:HD22	2.19	0.41
1:V:533:PRO:HG2	1:V:536:THR:HG21	2.03	0.41
1:W:267:VAL:HG12	1:Y:188:PHE:HD1	1.79	0.41
1:Z:102:TYR:CE2	1:Z:413:ILE:HD12	2.56	0.41
1:Z:180:LEU:HD11	1:Z:522:TYR:HB2	2.02	0.41
1:c:261:LEU:HD23	1:c:261:LEU:HA	1.90	0.41
1:f:405:ASN:HD21	1:h:433:ASP:C	2.26	0.41
1:g:68:ASN:HD21	1:g:91:THR:CB	2.33	0.41
1:h:187:LEU:HD13	1:h:450:ILE:CG2	2.49	0.41
1:i:117:GLU:HG2	1:l:117:GLU:HG2	2.03	0.41
1:i:180:LEU:HD11	1:i:522:TYR:HB2	2.02	0.41
1:k:224:MET:SD	1:w:181:PRO:HD2	2.60	0.41
1:l:218:TYR:HB3	1:n:499:ALA:O	2.21	0.41
1:m:180:LEU:HD11	1:m:522:TYR:HB2	2.02	0.41
1:n:533:PRO:HG2	1:n:536:THR:HG21	2.03	0.41
1:p:218:TYR:HB3	1:6:499:ALA:O	2.21	0.41
1:p:224:MET:SD	1:6:181:PRO:HD2	2.60	0.41
1:q:499:ALA:O	1:y:218:TYR:HB3	2.21	0.41
1:r:102:TYR:CE2	1:r:413:ILE:HD12	2.56	0.41
1:r:119:LYS:O	1:r:252:ASN:N	2.46	0.41
1:r:358:GLN:NE2	1:r:371:ASN:HD22	2.19	0.41
1:r:533:PRO:HG2	1:r:536:THR:HG21	2.03	0.41
1:s:81:ASN:ND2	1:s:313:THR:HG21	2.36	0.41
1:s:358:GLN:NE2	1:s:371:ASN:HD22	2.19	0.41
1:t:81:ASN:ND2	1:t:313:THR:HG21	2.36	0.41
1:t:218:TYR:HB3	1:y:499:ALA:O	2.21	0.41
1:t:303:PHE:HB3	1:t:319:TYR:CE2	2.55	0.41
1:u:81:ASN:ND2	1:u:313:THR:HG21	2.36	0.41
1:v:81:ASN:ND2	1:v:313:THR:HG21	2.36	0.41
1:v:117:GLU:HG2	1:y:117:GLU:HG2	2.02	0.41
1:v:303:PHE:HB3	1:v:319:TYR:CE2	2.56	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:w:455:ILE:HD12	1:w:469:ILE:HD13	2.03	0.41
1:x:81:ASN:ND2	1:x:313:THR:HG21	2.36	0.41
1:4:81:ASN:ND2	1:4:313:THR:HG21	2.36	0.41
1:4:102:TYR:CE2	1:4:413:ILE:HD12	2.56	0.41
1:6:358:GLN:NE2	1:6:371:ASN:HD22	2.19	0.41
1:6:405:ASN:HD21	1:7:433:ASP:C	2.26	0.41
1:7:81:ASN:ND2	1:7:313:THR:HG21	2.36	0.41
1:8:115:THR:O	1:8:252:ASN:ND2	2.53	0.41
1:8:513:THR:HG22	1:8:514:TYR:CD2	2.54	0.41
1:A:117:GLU:HG2	1:F:117:GLU:HG2	2.02	0.41
1:A:180:LEU:HD11	1:A:522:TYR:HB2	2.02	0.41
1:C:117:GLU:HG2	1:L:117:GLU:HG2	2.02	0.41
1:D:224:MET:SD	1:E:181:PRO:HD2	2.60	0.41
1:E:455:ILE:HD12	1:E:469:ILE:HD13	2.03	0.41
1:F:102:TYR:CE2	1:F:413:ILE:HD12	2.56	0.41
1:H:249:TRP:CH2	1:H:482:GLU:HG2	2.56	0.41
1:I:81:ASN:ND2	1:I:313:THR:HG21	2.36	0.41
1:I:303:PHE:HB3	1:I:319:TYR:CE2	2.56	0.41
1:L:181:PRO:HD2	1:b:224:MET:SD	2.60	0.41
1:N:81:ASN:ND2	1:N:313:THR:HG21	2.36	0.41
1:N:117:GLU:HG2	1:O:117:GLU:HG2	2.03	0.41
1:N:180:LEU:HD11	1:N:522:TYR:HB2	2.02	0.41
1:O:249:TRP:CH2	1:O:482:GLU:HG2	2.56	0.41
1:P:249:TRP:CH2	1:P:482:GLU:HG2	2.56	0.41
1:S:533:PRO:HG2	1:S:536:THR:HG21	2.03	0.41
1:T:119:LYS:O	1:T:252:ASN:N	2.46	0.41
1:T:224:MET:SD	1:i:181:PRO:HD2	2.60	0.41
1:T:274:TYR:O	1:d:308:ARG:HD2	2.20	0.41
1:U:303:PHE:HB3	1:U:319:TYR:CE2	2.56	0.41
1:U:499:ALA:O	1:e:218:TYR:HB3	2.20	0.41
1:V:218:TYR:HB3	1:W:499:ALA:O	2.21	0.41
1:W:68:ASN:HD21	1:W:91:THR:CB	2.33	0.41
1:W:358:GLN:NE2	1:W:371:ASN:HD22	2.19	0.41
1:X:81:ASN:ND2	1:X:313:THR:HG21	2.36	0.41
1:X:181:PRO:HD2	1:Y:224:MET:SD	2.60	0.41
1:X:218:TYR:HB3	1:f:499:ALA:O	2.20	0.41
1:X:303:PHE:HB3	1:X:319:TYR:CE2	2.55	0.41
1:X:533:PRO:HG2	1:X:536:THR:HG21	2.03	0.41
1:Y:81:ASN:ND2	1:Y:313:THR:HG21	2.36	0.41
1:Y:119:LYS:O	1:Y:252:ASN:N	2.46	0.41
1:Y:181:PRO:HD2	1:4:224:MET:SD	2.60	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Z:303:PHE:HB3	1:Z:319:TYR:CE2	2.55	0.41
1:Z:358:GLN:NE2	1:Z:371:ASN:HD22	2.19	0.41
1:b:499:ALA:O	1:o:218:TYR:HB3	2.20	0.41
1:c:81:ASN:ND2	1:c:313:THR:HG21	2.36	0.41
1:d:102:TYR:CE2	1:d:413:ILE:HD12	2.56	0.41
1:d:358:GLN:NE2	1:d:371:ASN:HD22	2.19	0.41
1:d:533:PRO:HG2	1:d:536:THR:HG21	2.03	0.41
1:e:81:ASN:ND2	1:e:313:THR:HG21	2.36	0.41
1:g:117:GLU:HG2	1:z:117:GLU:HG2	2.02	0.41
1:g:180:LEU:HB2	1:g:183:LYS:HG3	2.02	0.41
1:h:117:GLU:HG2	1:k:117:GLU:HG2	2.03	0.41
1:i:81:ASN:ND2	1:i:313:THR:HG21	2.36	0.41
1:j:249:TRP:CH2	1:j:482:GLU:HG2	2.56	0.41
1:n:102:TYR:CE2	1:n:413:ILE:HD12	2.56	0.41
1:o:81:ASN:ND2	1:o:313:THR:HG21	2.36	0.41
1:o:303:PHE:HB3	1:o:319:TYR:CE2	2.55	0.41
1:s:303:PHE:HB3	1:s:319:TYR:CE2	2.56	0.41
1:u:68:ASN:HD21	1:u:91:THR:CB	2.33	0.41
1:1:180:LEU:HD11	1:1:522:TYR:HB2	2.02	0.41
1:2:181:PRO:HD2	1:3:224:MET:SD	2.60	0.41
1:5:249:TRP:CH2	1:5:482:GLU:HG2	2.56	0.41
1:8:81:ASN:ND2	1:8:313:THR:HG21	2.36	0.41
1:8:358:GLN:NE2	1:8:371:ASN:HD22	2.19	0.41
1:B:358:GLN:NE2	1:B:371:ASN:HD22	2.19	0.41
1:C:100:ASN:ND2	1:C:420:TRP:O	2.47	0.41
1:C:180:LEU:HB2	1:C:183:LYS:HG3	2.02	0.41
1:D:455:ILE:HD12	1:D:469:ILE:HD13	2.03	0.41
1:G:100:ASN:ND2	1:G:420:TRP:O	2.47	0.41
1:H:218:TYR:HB3	1:Z:499:ALA:O	2.21	0.41
1:J:180:LEU:HB2	1:J:183:LYS:HG3	2.02	0.41
1:J:249:TRP:CH2	1:J:482:GLU:HG2	2.56	0.41
1:N:494:GLU:CG	1:O:109:GLN:HE22	2.30	0.41
1:P:455:ILE:HD12	1:P:469:ILE:HD13	2.03	0.41
1:P:499:ALA:O	1:Q:218:TYR:HB3	2.21	0.41
1:P:533:PRO:HG2	1:P:536:THR:HG21	2.03	0.41
1:S:102:TYR:CE2	1:S:413:ILE:HD12	2.56	0.41
1:S:119:LYS:O	1:S:252:ASN:N	2.46	0.41
1:U:102:TYR:CE2	1:U:413:ILE:HD12	2.56	0.41
1:V:81:ASN:ND2	1:V:313:THR:HG21	2.36	0.41
1:V:224:MET:SD	1:W:181:PRO:HD2	2.60	0.41
1:V:249:TRP:CH2	1:V:482:GLU:HG2	2.56	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:X:316:THR:OG1	1:e:273:GLN:OE1	2.38	0.41
1:Z:81:ASN:ND2	1:Z:313:THR:HG21	2.36	0.41
1:b:81:ASN:ND2	1:b:313:THR:HG21	2.36	0.41
1:b:455:ILE:HD12	1:b:469:ILE:HD13	2.03	0.41
1:e:180:LEU:HD11	1:e:522:TYR:HB2	2.02	0.41
1:f:224:MET:SD	1:z:181:PRO:HD2	2.60	0.41
1:i:119:LYS:O	1:i:252:ASN:N	2.46	0.41
1:j:455:ILE:HD12	1:j:469:ILE:HD13	2.03	0.41
1:j:499:ALA:O	1:x:218:TYR:HB3	2.21	0.41
1:k:455:ILE:HD12	1:k:469:ILE:HD13	2.03	0.41
1:l:249:TRP:CH2	1:l:482:GLU:HG2	2.56	0.41
1:m:115:THR:O	1:m:252:ASN:ND2	2.53	0.41
1:o:533:PRO:HG2	1:o:536:THR:HG21	2.03	0.41
1:p:249:TRP:CH2	1:p:482:GLU:HG2	2.56	0.41
1:s:102:TYR:CE2	1:s:413:ILE:HD12	2.56	0.41
1:t:358:GLN:NE2	1:t:371:ASN:HD22	2.19	0.41
1:t:455:ILE:HD12	1:t:469:ILE:HD13	2.03	0.41
1:u:303:PHE:HB3	1:u:319:TYR:CE2	2.56	0.41
1:v:180:LEU:HB2	1:v:183:LYS:HG3	2.02	0.41
1:v:180:LEU:HD11	1:v:522:TYR:HB2	2.02	0.41
1:w:163:HIS:HD2	1:w:443:HIS:HD2	1.65	0.41
1:w:358:GLN:NE2	1:w:371:ASN:HD22	2.19	0.41
1:z:533:PRO:HG2	1:z:536:THR:HG21	2.03	0.41
1:1:261:LEU:HD23	1:1:261:LEU:HA	1.90	0.41
1:2:249:TRP:CH2	1:2:482:GLU:HG2	2.56	0.41
1:6:68:ASN:HD21	1:6:91:THR:CB	2.33	0.41
1:6:267:VAL:HG12	1:7:188:PHE:HD1	1.79	0.41
1:6:533:PRO:HG2	1:6:536:THR:HG21	2.03	0.41
1:7:119:LYS:O	1:7:252:ASN:N	2.46	0.41
1:A:455:ILE:HD12	1:A:469:ILE:HD13	2.03	0.41
1:A:494:GLU:CG	1:F:109:GLN:HE22	2.29	0.41
1:B:117:GLU:HG2	1:I:117:GLU:HG2	2.02	0.41
1:B:180:LEU:HB2	1:B:183:LYS:HG3	2.02	0.41
1:B:224:MET:SD	1:C:181:PRO:HD2	2.60	0.41
1:D:117:GLU:HG2	1:M:117:GLU:HG2	2.03	0.41
1:D:156:HIS:O	1:D:450:ILE:HA	2.21	0.41
1:D:303:PHE:HB3	1:D:319:TYR:CE2	2.55	0.41
1:E:249:TRP:CH2	1:E:482:GLU:HG2	2.56	0.41
1:E:358:GLN:NE2	1:E:371:ASN:HD22	2.19	0.41
1:F:115:THR:O	1:F:252:ASN:ND2	2.53	0.41
1:F:358:GLN:NE2	1:F:371:ASN:HD22	2.19	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:358:GLN:NE2	1:G:371:ASN:HD22	2.19	0.41
1:G:455:ILE:HD12	1:G:469:ILE:HD13	2.03	0.41
1:I:115:THR:O	1:I:252:ASN:ND2	2.53	0.41
1:J:117:GLU:HG2	1:K:117:GLU:HG2	2.02	0.41
1:J:295:THR:HG22	1:L:340:GLY:O	2.21	0.41
1:J:499:ALA:O	1:a:218:TYR:HB3	2.21	0.41
1:K:533:PRO:HG2	1:K:536:THR:HG21	2.03	0.41
1:L:249:TRP:CH2	1:L:482:GLU:HG2	2.56	0.41
1:L:420:TRP:CD1	1:L:444:PRO:HB3	2.56	0.41
1:L:533:PRO:HG2	1:L:536:THR:HG21	2.03	0.41
1:M:249:TRP:CH2	1:M:482:GLU:HG2	2.56	0.41
1:M:499:ALA:O	1:N:218:TYR:HB3	2.21	0.41
1:N:303:PHE:HB3	1:N:319:TYR:CE2	2.55	0.41
1:N:499:ALA:O	1:m:218:TYR:HB3	2.21	0.41
1:P:100:ASN:ND2	1:P:420:TRP:O	2.47	0.41
1:Q:156:HIS:O	1:Q:450:ILE:HA	2.21	0.41
1:R:180:LEU:HD11	1:R:522:TYR:HB2	2.02	0.41
1:R:358:GLN:NE2	1:R:371:ASN:HD22	2.19	0.41
1:R:533:PRO:HG2	1:R:536:THR:HG21	2.03	0.41
1:S:81:ASN:ND2	1:S:313:THR:HG21	2.36	0.41
1:S:455:ILE:HD12	1:S:469:ILE:HD13	2.03	0.41
1:T:218:TYR:HB3	1:i:499:ALA:O	2.21	0.41
1:T:358:GLN:NE2	1:T:371:ASN:HD22	2.19	0.41
1:T:499:ALA:HB1	1:U:218:TYR:O	2.21	0.41
1:V:102:TYR:CE2	1:V:413:ILE:HD12	2.56	0.41
1:V:303:PHE:HB3	1:V:319:TYR:CE2	2.55	0.41
1:W:405:ASN:HD21	1:Y:433:ASP:C	2.26	0.41
1:W:533:PRO:HG2	1:W:536:THR:HG21	2.03	0.41
1:a:81:ASN:ND2	1:a:313:THR:HG21	2.36	0.41
1:c:180:LEU:HB2	1:c:183:LYS:HG3	2.02	0.41
1:e:180:LEU:HB2	1:e:183:LYS:HG3	2.02	0.41
1:f:81:ASN:ND2	1:f:313:THR:HG21	2.36	0.41
1:f:455:ILE:HD12	1:f:469:ILE:HD13	2.03	0.41
1:g:100:ASN:ND2	1:g:420:TRP:O	2.47	0.41
1:h:249:TRP:CH2	1:h:482:GLU:HG2	2.56	0.41
1:h:499:ALA:O	1:i:218:TYR:HB3	2.21	0.41
1:i:303:PHE:HB3	1:i:319:TYR:CE2	2.55	0.41
1:i:494:GLU:CG	1:l:109:GLN:HE22	2.30	0.41
1:j:81:ASN:ND2	1:j:313:THR:HG21	2.36	0.41
1:j:100:ASN:ND2	1:j:420:TRP:O	2.47	0.41
1:j:533:PRO:HG2	1:j:536:THR:HG21	2.03	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:k:156:HIS:O	1:k:450:ILE:HA	2.21	0.41
1:k:303:PHE:HB3	1:k:319:TYR:CE2	2.55	0.41
1:m:358:GLN:NE2	1:m:371:ASN:HD22	2.19	0.41
1:o:180:LEU:HD11	1:o:522:TYR:HB2	2.02	0.41
1:p:81:ASN:ND2	1:p:313:THR:HG21	2.36	0.41
1:p:102:TYR:CE2	1:p:413:ILE:HD12	2.56	0.41
1:p:119:LYS:O	1:p:252:ASN:N	2.46	0.41
1:p:303:PHE:HB3	1:p:319:TYR:CE2	2.55	0.41
1:q:358:GLN:NE2	1:q:371:ASN:HD22	2.19	0.41
1:r:81:ASN:ND2	1:r:313:THR:HG21	2.36	0.41
1:s:420:TRP:CD1	1:s:444:PRO:HB3	2.56	0.41
1:u:117:GLU:HG2	1:1:117:GLU:HG2	2.02	0.41
1:v:455:ILE:HD12	1:v:469:ILE:HD13	2.03	0.41
1:v:494:GLU:CG	1:y:109:GLN:HE22	2.30	0.41
1:x:102:TYR:CE2	1:x:413:ILE:HD12	2.56	0.41
1:x:156:HIS:O	1:x:450:ILE:HA	2.21	0.41
1:y:81:ASN:ND2	1:y:313:THR:HG21	2.36	0.41
1:y:358:GLN:NE2	1:y:371:ASN:HD22	2.19	0.41
1:z:102:TYR:CE2	1:z:413:ILE:HD12	2.56	0.41
1:z:188:PHE:HD1	1:2:267:VAL:HG12	1.79	0.41
1:z:249:TRP:CH2	1:z:482:GLU:HG2	2.56	0.41
1:z:340:GLY:O	1:2:295:THR:HG22	2.21	0.41
1:z:420:TRP:CD1	1:z:444:PRO:HB3	2.56	0.41
1:1:180:LEU:HB2	1:1:183:LYS:HG3	2.02	0.41
1:1:358:GLN:NE2	1:1:371:ASN:HD22	2.19	0.41
1:2:117:GLU:HG2	1:4:117:GLU:HG2	2.02	0.41
1:2:180:LEU:HB2	1:2:183:LYS:HG3	2.02	0.41
1:2:499:ALA:O	1:3:218:TYR:HB3	2.21	0.41
1:3:81:ASN:ND2	1:3:313:THR:HG21	2.36	0.41
1:4:533:PRO:HG2	1:4:536:THR:HG21	2.03	0.41
1:5:218:TYR:HB3	1:8:499:ALA:O	2.21	0.41
1:6:81:ASN:ND2	1:6:313:THR:HG21	2.36	0.41
1:8:303:PHE:HB3	1:8:319:TYR:CE2	2.55	0.41
1:8:533:PRO:HG2	1:8:536:THR:HG21	2.03	0.41
1:A:295:THR:HG22	1:G:340:GLY:O	2.22	0.41
1:B:81:ASN:ND2	1:B:313:THR:HG21	2.36	0.41
1:B:420:TRP:CD1	1:B:444:PRO:HB3	2.56	0.41
1:F:455:ILE:HD12	1:F:469:ILE:HD13	2.03	0.41
1:G:117:GLU:HG2	1:H:117:GLU:HG2	2.03	0.41
1:G:156:HIS:O	1:G:450:ILE:HA	2.21	0.41
1:H:499:ALA:O	1:I:218:TYR:HB3	2.21	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:249:TRP:CH2	1:I:482:GLU:HG2	2.56	0.41
1:K:358:GLN:NE2	1:K:371:ASN:HD22	2.19	0.41
1:L:81:ASN:ND2	1:L:313:THR:HG21	2.36	0.41
1:L:102:TYR:CE2	1:L:413:ILE:HD12	2.56	0.41
1:M:224:MET:SD	1:c:181:PRO:HD2	2.60	0.41
1:N:119:LYS:O	1:N:252:ASN:N	2.46	0.41
1:Q:102:TYR:CE2	1:Q:413:ILE:HD12	2.56	0.41
1:R:156:HIS:O	1:R:450:ILE:HA	2.21	0.41
1:T:420:TRP:CD1	1:T:444:PRO:HB3	2.56	0.41
1:U:420:TRP:CD1	1:U:444:PRO:HB3	2.56	0.41
1:V:119:LYS:O	1:V:252:ASN:N	2.46	0.41
1:W:81:ASN:ND2	1:W:313:THR:HG21	2.36	0.41
1:Z:533:PRO:HG2	1:Z:536:THR:HG21	2.03	0.41
1:c:188:PHE:HD1	1:p:267:VAL:HG12	1.79	0.41
1:c:420:TRP:CD1	1:c:444:PRO:HB3	2.56	0.41
1:d:156:HIS:O	1:d:450:ILE:HA	2.21	0.41
1:e:109:GLN:HE22	1:f:494:GLU:CG	2.29	0.41
1:e:115:THR:O	1:e:252:ASN:ND2	2.53	0.41
1:e:533:PRO:HG2	1:e:536:THR:HG21	2.03	0.41
1:f:218:TYR:HB3	1:z:499:ALA:O	2.21	0.41
1:g:181:PRO:HD2	1:1:224:MET:SD	2.60	0.41
1:l:224:MET:SD	1:n:181:PRO:HD2	2.60	0.41
1:m:119:LYS:O	1:m:252:ASN:N	2.47	0.41
1:m:420:TRP:CD1	1:m:444:PRO:HB3	2.56	0.41
1:m:499:ALA:HB1	1:s:218:TYR:O	2.21	0.41
1:n:156:HIS:O	1:n:450:ILE:HA	2.21	0.41
1:n:218:TYR:HB3	1:r:499:ALA:O	2.21	0.41
1:n:249:TRP:CH2	1:n:482:GLU:HG2	2.56	0.41
1:o:420:TRP:CD1	1:o:444:PRO:HB3	2.56	0.41
1:q:156:HIS:O	1:q:450:ILE:HA	2.21	0.41
1:q:180:LEU:HD11	1:q:522:TYR:HB2	2.02	0.41
1:q:533:PRO:HG2	1:q:536:THR:HG21	2.03	0.41
1:r:455:ILE:HD12	1:r:469:ILE:HD13	2.03	0.41
1:t:100:ASN:ND2	1:t:420:TRP:O	2.47	0.41
1:t:156:HIS:O	1:t:450:ILE:HA	2.21	0.41
1:t:340:GLY:O	1:v:295:THR:HG22	2.22	0.41
1:u:115:THR:O	1:u:252:ASN:ND2	2.53	0.41
1:u:249:TRP:CH2	1:u:482:GLU:HG2	2.56	0.41
1:w:249:TRP:CH2	1:w:482:GLU:HG2	2.56	0.41
1:y:156:HIS:O	1:y:450:ILE:HA	2.21	0.41
1:1:420:TRP:CD1	1:1:444:PRO:HB3	2.56	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:2:358:GLN:NE2	1:2:371:ASN:HD22	2.19	0.41
1:3:45:GLY:N	1:8:229:ASP:OD1	2.32	0.41
1:7:358:GLN:NE2	1:7:371:ASN:HD22	2.19	0.41
1:A:102:TYR:CE2	1:A:413:ILE:HD12	2.56	0.40
1:A:499:ALA:O	1:E:218:TYR:HB3	2.21	0.40
1:B:261:LEU:HD23	1:B:261:LEU:HA	1.90	0.40
1:C:72:TYR:OH	1:C:226:GLU:OE1	2.39	0.40
1:C:81:ASN:ND2	1:C:313:THR:HG21	2.36	0.40
1:C:102:TYR:CE2	1:C:413:ILE:HD12	2.56	0.40
1:C:224:MET:SD	1:D:181:PRO:HD2	2.60	0.40
1:C:249:TRP:CH2	1:C:482:GLU:HG2	2.56	0.40
1:D:180:LEU:HB2	1:D:183:LYS:HG3	2.02	0.40
1:E:81:ASN:ND2	1:E:313:THR:HG21	2.36	0.40
1:E:156:HIS:O	1:E:450:ILE:HA	2.21	0.40
1:E:163:HIS:HD2	1:E:443:HIS:HD2	1.65	0.40
1:E:295:THR:HG22	1:Q:340:GLY:O	2.21	0.40
1:F:68:ASN:HD21	1:F:91:THR:CB	2.33	0.40
1:F:81:ASN:ND2	1:F:313:THR:HG21	2.36	0.40
1:F:156:HIS:O	1:F:450:ILE:HA	2.21	0.40
1:H:156:HIS:O	1:H:450:ILE:HA	2.21	0.40
1:H:455:ILE:HD12	1:H:469:ILE:HD13	2.03	0.40
1:I:156:HIS:O	1:I:450:ILE:HA	2.21	0.40
1:J:81:ASN:ND2	1:J:313:THR:HG21	2.36	0.40
1:J:261:LEU:HD23	1:J:261:LEU:HA	1.90	0.40
1:J:358:GLN:NE2	1:J:371:ASN:HD22	2.19	0.40
1:K:188:PHE:HD1	1:8:267:VAL:HG12	1.79	0.40
1:K:499:ALA:O	1:L:218:TYR:HB3	2.20	0.40
1:L:499:ALA:O	1:b:218:TYR:HB3	2.21	0.40
1:M:218:TYR:HB3	1:c:499:ALA:O	2.20	0.40
1:M:358:GLN:NE2	1:M:371:ASN:HD22	2.19	0.40
1:N:358:GLN:NE2	1:N:371:ASN:HD22	2.19	0.40
1:P:81:ASN:ND2	1:P:313:THR:HG21	2.36	0.40
1:P:420:TRP:CD1	1:P:444:PRO:HB3	2.56	0.40
1:Q:455:ILE:HD12	1:Q:469:ILE:HD13	2.03	0.40
1:U:233:LEU:HA	1:U:237:GLU:OE1	2.22	0.40
1:U:249:TRP:CH2	1:U:482:GLU:HG2	2.56	0.40
1:W:102:TYR:CE2	1:W:413:ILE:HD12	2.56	0.40
1:X:180:LEU:HD11	1:X:522:TYR:HB2	2.02	0.40
1:X:420:TRP:CD1	1:X:444:PRO:HB3	2.56	0.40
1:X:499:ALA:O	1:Y:218:TYR:HB3	2.21	0.40
1:Y:117:GLU:HG2	1:Z:117:GLU:HG2	2.03	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Y:233:LEU:HA	1:Y:237:GLU:OE1	2.22	0.40
1:Y:358:GLN:NE2	1:Y:371:ASN:HD22	2.19	0.40
1:Z:229:ASP:OD1	1:a:45:GLY:N	2.32	0.40
1:Z:267:VAL:HG12	1:4:188:PHE:HD1	1.79	0.40
1:Z:455:ILE:HD12	1:Z:469:ILE:HD13	2.03	0.40
1:c:115:THR:O	1:c:252:ASN:ND2	2.53	0.40
1:c:303:PHE:HB3	1:c:319:TYR:CE2	2.55	0.40
1:c:533:PRO:HG2	1:c:536:THR:HG21	2.03	0.40
1:d:249:TRP:CH2	1:d:482:GLU:HG2	2.56	0.40
1:e:420:TRP:CD1	1:e:444:PRO:HB3	2.56	0.40
1:g:81:ASN:ND2	1:g:313:THR:HG21	2.36	0.40
1:g:102:TYR:CE2	1:g:413:ILE:HD12	2.56	0.40
1:g:224:MET:SD	1:k:181:PRO:HD2	2.60	0.40
1:h:358:GLN:NE2	1:h:371:ASN:HD22	2.19	0.40
1:j:420:TRP:CD1	1:j:444:PRO:HB3	2.56	0.40
1:k:180:LEU:HB2	1:k:183:LYS:HG3	2.02	0.40
1:l:81:ASN:ND2	1:l:313:THR:HG21	2.36	0.40
1:o:499:ALA:O	1:7:218:TYR:HB3	2.21	0.40
1:r:156:HIS:O	1:r:450:ILE:HA	2.21	0.40
1:s:233:LEU:HA	1:s:237:GLU:OE1	2.22	0.40
1:s:249:TRP:CH2	1:s:482:GLU:HG2	2.56	0.40
1:t:117:GLU:HG2	1:5:117:GLU:HG2	2.03	0.40
1:u:156:HIS:O	1:u:450:ILE:HA	2.21	0.40
1:u:218:TYR:HB3	1:5:499:ALA:O	2.21	0.40
1:v:102:TYR:CE2	1:v:413:ILE:HD12	2.56	0.40
1:v:499:ALA:O	1:w:218:TYR:HB3	2.21	0.40
1:w:295:THR:HG22	1:x:340:GLY:O	2.21	0.40
1:y:115:THR:O	1:y:252:ASN:ND2	2.53	0.40
1:y:455:ILE:HD12	1:y:469:ILE:HD13	2.03	0.40
1:1:81:ASN:ND2	1:1:313:THR:HG21	2.36	0.40
1:2:81:ASN:ND2	1:2:313:THR:HG21	2.36	0.40
1:2:102:TYR:CE2	1:2:413:ILE:HD12	2.56	0.40
1:2:156:HIS:O	1:2:450:ILE:HA	2.21	0.40
1:3:102:TYR:CE2	1:3:413:ILE:HD12	2.56	0.40
1:4:358:GLN:NE2	1:4:371:ASN:HD22	2.19	0.40
1:5:156:HIS:O	1:5:450:ILE:HA	2.21	0.40
1:5:303:PHE:HB3	1:5:319:TYR:CE2	2.55	0.40
1:5:455:ILE:HD12	1:5:469:ILE:HD13	2.03	0.40
1:6:102:TYR:CE2	1:6:413:ILE:HD12	2.56	0.40
1:7:117:GLU:HG2	1:8:117:GLU:HG2	2.03	0.40
1:7:233:LEU:HA	1:7:237:GLU:OE1	2.22	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:420:TRP:CD1	1:A:444:PRO:HB3	2.56	0.40
1:B:119:LYS:HE3	1:B:253:GLU:OE2	2.22	0.40
1:C:233:LEU:HA	1:C:237:GLU:OE1	2.22	0.40
1:C:358:GLN:NE2	1:C:371:ASN:HD22	2.19	0.40
1:H:295:THR:HG22	1:W:340:GLY:O	2.22	0.40
1:H:303:PHE:HB3	1:H:319:TYR:CE2	2.55	0.40
1:H:340:GLY:O	1:Y:295:THR:HG22	2.22	0.40
1:I:455:ILE:HD12	1:I:469:ILE:HD13	2.03	0.40
1:J:102:TYR:CE2	1:J:413:ILE:HD12	2.56	0.40
1:J:156:HIS:O	1:J:450:ILE:HA	2.21	0.40
1:M:218:TYR:O	1:c:499:ALA:HB1	2.21	0.40
1:N:499:ALA:HB1	1:m:218:TYR:O	2.22	0.40
1:O:81:ASN:ND2	1:O:313:THR:HG21	2.36	0.40
1:P:119:LYS:HE3	1:P:253:GLU:OE2	2.22	0.40
1:P:156:HIS:O	1:P:450:ILE:HA	2.21	0.40
1:Q:233:LEU:HA	1:Q:237:GLU:OE1	2.22	0.40
1:Q:420:TRP:CD1	1:Q:444:PRO:HB3	2.56	0.40
1:R:218:TYR:HB3	1:V:499:ALA:O	2.21	0.40
1:T:81:ASN:ND2	1:T:313:THR:HG21	2.36	0.40
1:T:218:TYR:O	1:i:499:ALA:HB1	2.22	0.40
1:T:249:TRP:CH2	1:T:482:GLU:HG2	2.56	0.40
1:V:358:GLN:NE2	1:V:371:ASN:HD22	2.19	0.40
1:W:420:TRP:CD1	1:W:444:PRO:HB3	2.56	0.40
1:X:156:HIS:O	1:X:450:ILE:HA	2.21	0.40
1:Z:233:LEU:HA	1:Z:237:GLU:OE1	2.22	0.40
1:Z:420:TRP:CD1	1:Z:444:PRO:HB3	2.56	0.40
1:a:102:TYR:CE2	1:a:413:ILE:HD12	2.56	0.40
1:a:156:HIS:O	1:a:450:ILE:HA	2.21	0.40
1:b:533:PRO:HG2	1:b:536:THR:HG21	2.03	0.40
1:e:303:PHE:HB3	1:e:319:TYR:CE2	2.55	0.40
1:g:233:LEU:HA	1:g:237:GLU:OE1	2.22	0.40
1:g:249:TRP:CH2	1:g:482:GLU:HG2	2.56	0.40
1:g:358:GLN:NE2	1:g:371:ASN:HD22	2.19	0.40
1:i:358:GLN:NE2	1:i:371:ASN:HD22	2.19	0.40
1:k:358:GLN:NE2	1:k:371:ASN:HD22	2.19	0.40
1:m:249:TRP:CH2	1:m:482:GLU:HG2	2.56	0.40
1:n:81:ASN:ND2	1:n:313:THR:HG21	2.36	0.40
1:o:156:HIS:O	1:o:450:ILE:HA	2.21	0.40
1:o:499:ALA:HB1	1:7:218:TYR:O	2.22	0.40
1:p:358:GLN:NE2	1:p:371:ASN:HD22	2.19	0.40
1:p:499:ALA:O	1:q:218:TYR:HB3	2.21	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:v:499:ALA:HB1	1:w:218:TYR:O	2.22	0.40
1:w:81:ASN:ND2	1:w:313:THR:HG21	2.36	0.40
1:w:156:HIS:O	1:w:450:ILE:HA	2.21	0.40
1:x:233:LEU:HA	1:x:237:GLU:OE1	2.22	0.40
1:x:420:TRP:CD1	1:x:444:PRO:HB3	2.56	0.40
1:y:68:ASN:HD21	1:y:91:THR:CB	2.33	0.40
1:z:81:ASN:ND2	1:z:313:THR:HG21	2.36	0.40
1:3:156:HIS:O	1:3:450:ILE:HA	2.21	0.40
1:5:295:THR:HG22	1:6:340:GLY:O	2.22	0.40
1:5:340:GLY:O	1:7:295:THR:HG22	2.22	0.40
1:7:102:TYR:CE2	1:7:413:ILE:HD12	2.56	0.40
1:7:420:TRP:CD1	1:7:444:PRO:HB3	2.56	0.40
1:8:420:TRP:CD1	1:8:444:PRO:HB3	2.56	0.40
1:B:303:PHE:HB3	1:B:319:TYR:CE2	2.56	0.40
1:B:455:ILE:HD12	1:B:469:ILE:HD13	2.03	0.40
1:C:295:THR:HG22	1:b:340:GLY:O	2.22	0.40
1:D:358:GLN:NE2	1:D:371:ASN:HD22	2.19	0.40
1:G:102:TYR:CE2	1:G:413:ILE:HD12	2.56	0.40
1:H:499:ALA:HB1	1:I:218:TYR:O	2.21	0.40
1:K:340:GLY:O	1:8:295:THR:HG22	2.22	0.40
1:K:455:ILE:HD12	1:K:469:ILE:HD13	2.03	0.40
1:L:358:GLN:NE2	1:L:371:ASN:HD22	2.19	0.40
1:M:102:TYR:CE2	1:M:413:ILE:HD12	2.56	0.40
1:N:119:LYS:HE3	1:N:253:GLU:OE2	2.22	0.40
1:Q:180:LEU:HD11	1:Q:522:TYR:HB2	2.02	0.40
1:S:233:LEU:HA	1:S:237:GLU:OE1	2.22	0.40
1:T:156:HIS:O	1:T:450:ILE:HA	2.22	0.40
1:U:455:ILE:HD12	1:U:469:ILE:HD13	2.03	0.40
1:X:340:GLY:O	1:e:295:THR:HG22	2.21	0.40
1:X:499:ALA:HB1	1:Y:218:TYR:O	2.22	0.40
1:Y:180:LEU:HD11	1:Y:522:TYR:HB2	2.02	0.40
1:Y:249:TRP:CH2	1:Y:482:GLU:HG2	2.56	0.40
1:Y:420:TRP:CD1	1:Y:444:PRO:HB3	2.56	0.40
1:b:102:TYR:CE2	1:b:413:ILE:HD12	2.56	0.40
1:c:218:TYR:HB3	1:s:499:ALA:O	2.21	0.40
1:d:81:ASN:ND2	1:d:313:THR:HG21	2.36	0.40
1:f:340:GLY:O	1:g:295:THR:HG22	2.22	0.40
1:f:533:PRO:HG2	1:f:536:THR:HG21	2.03	0.40
1:h:455:ILE:HD12	1:h:469:ILE:HD13	2.03	0.40
1:i:119:LYS:HE3	1:i:253:GLU:OE2	2.22	0.40
1:j:119:LYS:HE3	1:j:253:GLU:OE2	2.22	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:j:156:HIS:O	1:j:450:ILE:HA	2.21	0.40
1:m:81:ASN:ND2	1:m:313:THR:HG21	2.36	0.40
1:m:156:HIS:O	1:m:450:ILE:HA	2.22	0.40
1:n:420:TRP:CD1	1:n:444:PRO:HB3	2.56	0.40
1:o:249:TRP:CH2	1:o:482:GLU:HG2	2.56	0.40
1:p:119:LYS:HE3	1:p:253:GLU:OE2	2.22	0.40
1:r:233:LEU:HA	1:r:237:GLU:OE1	2.22	0.40
1:s:455:ILE:HD12	1:s:469:ILE:HD13	2.03	0.40
1:t:233:LEU:HA	1:t:237:GLU:OE1	2.22	0.40
1:u:102:TYR:CE2	1:u:413:ILE:HD12	2.56	0.40
1:u:455:ILE:HD12	1:u:469:ILE:HD13	2.03	0.40
1:v:420:TRP:CD1	1:v:444:PRO:HB3	2.56	0.40
1:x:180:LEU:HD11	1:x:522:TYR:HB2	2.02	0.40
1:x:455:ILE:HD12	1:x:469:ILE:HD13	2.03	0.40
1:y:180:LEU:HD11	1:y:522:TYR:HB2	2.02	0.40
1:z:218:TYR:HB3	1:4:499:ALA:O	2.20	0.40
1:z:358:GLN:NE2	1:z:371:ASN:HD22	2.19	0.40
1:1:102:TYR:CE2	1:1:413:ILE:HD12	2.56	0.40
1:1:119:LYS:HE3	1:1:253:GLU:OE2	2.22	0.40
1:2:499:ALA:HB1	1:3:218:TYR:O	2.22	0.40
1:6:420:TRP:CD1	1:6:444:PRO:HB3	2.56	0.40
1:7:180:LEU:HD11	1:7:522:TYR:HB2	2.02	0.40
1:7:249:TRP:CH2	1:7:482:GLU:HG2	2.56	0.40
1:8:233:LEU:HA	1:8:237:GLU:OE1	2.22	0.40
1:8:455:ILE:HD12	1:8:469:ILE:HD13	2.03	0.40
1:B:102:TYR:CE2	1:B:413:ILE:HD12	2.56	0.40
1:B:218:TYR:O	1:C:499:ALA:HB1	2.22	0.40
1:C:156:HIS:O	1:C:450:ILE:HA	2.21	0.40
1:C:340:GLY:O	1:M:295:THR:HG22	2.21	0.40
1:D:102:TYR:CE2	1:D:413:ILE:HD12	2.56	0.40
1:D:533:PRO:HG2	1:D:536:THR:HG21	2.03	0.40
1:E:316:THR:OG1	1:F:273:GLN:OE1	2.40	0.40
1:G:233:LEU:HA	1:G:237:GLU:OE1	2.22	0.40
1:H:102:TYR:CE2	1:H:413:ILE:HD12	2.56	0.40
1:H:233:LEU:HA	1:H:237:GLU:OE1	2.22	0.40
1:I:304:LEU:HG	1:I:348:LEU:HD23	2.04	0.40
1:I:420:TRP:CD1	1:I:444:PRO:HB3	2.56	0.40
1:J:45:GLY:N	1:a:229:ASP:OD1	2.33	0.40
1:J:499:ALA:HB1	1:a:218:TYR:O	2.22	0.40
1:K:233:LEU:HA	1:K:237:GLU:OE1	2.22	0.40
1:K:420:TRP:CD1	1:K:444:PRO:HB3	2.56	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:115:THR:O	1:M:252:ASN:ND2	2.53	0.40
1:P:195:ILE:HD13	1:P:200:ALA:HB2	2.04	0.40
1:Q:249:TRP:CH2	1:Q:482:GLU:HG2	2.56	0.40
1:Q:306:GLY:O	1:Q:355:TYR:OH	2.21	0.40
1:S:156:HIS:O	1:S:450:ILE:HA	2.21	0.40
1:U:306:GLY:O	1:U:355:TYR:OH	2.21	0.40
1:U:533:PRO:HG2	1:U:536:THR:HG21	2.03	0.40
1:V:119:LYS:HE3	1:V:253:GLU:OE2	2.22	0.40
1:V:267:VAL:HG12	1:e:188:PHE:HD1	1.80	0.40
1:V:388:ARG:HB3	1:e:319:TYR:CE1	2.57	0.40
1:W:304:LEU:HG	1:W:348:LEU:HD23	2.04	0.40
1:X:249:TRP:CH2	1:X:482:GLU:HG2	2.56	0.40
1:X:304:LEU:HG	1:X:348:LEU:HD23	2.04	0.40
1:Y:102:TYR:CE2	1:Y:413:ILE:HD12	2.56	0.40
1:Z:295:THR:HG22	1:4:340:GLY:O	2.22	0.40
1:c:156:HIS:O	1:c:450:ILE:HA	2.21	0.40
1:c:195:ILE:HD13	1:c:200:ALA:HB2	2.04	0.40
1:d:119:LYS:HE3	1:d:253:GLU:OE2	2.22	0.40
1:d:420:TRP:CD1	1:d:444:PRO:HB3	2.56	0.40
1:d:455:ILE:HD12	1:d:469:ILE:HD13	2.03	0.40
1:e:156:HIS:O	1:e:450:ILE:HA	2.21	0.40
1:e:195:ILE:HD13	1:e:200:ALA:HB2	2.04	0.40
1:f:102:TYR:CE2	1:f:413:ILE:HD12	2.56	0.40
1:f:180:LEU:HD11	1:f:522:TYR:HB2	2.02	0.40
1:f:218:TYR:O	1:z:499:ALA:HB1	2.22	0.40
1:g:180:LEU:HD11	1:g:522:TYR:HB2	2.02	0.40
1:g:499:ALA:HB1	1:1:218:TYR:O	2.22	0.40
1:h:102:TYR:CE2	1:h:413:ILE:HD12	2.56	0.40
1:h:109:GLN:HE22	1:k:494:GLU:CG	2.30	0.40
1:j:195:ILE:HD13	1:j:200:ALA:HB2	2.04	0.40
1:n:119:LYS:HE3	1:n:253:GLU:OE2	2.22	0.40
1:o:102:TYR:CE2	1:o:413:ILE:HD12	2.56	0.40
1:o:304:LEU:HG	1:o:348:LEU:HD23	2.04	0.40
1:q:340:GLY:O	1:s:295:THR:HG22	2.22	0.40
1:q:494:GLU:CG	1:x:109:GLN:HE22	2.30	0.40
1:r:420:TRP:CD1	1:r:444:PRO:HB3	2.56	0.40
1:t:102:TYR:CE2	1:t:413:ILE:HD12	2.56	0.40
1:u:218:TYR:O	1:5:499:ALA:HB1	2.21	0.40
1:u:304:LEU:HG	1:u:348:LEU:HD23	2.04	0.40
1:u:420:TRP:CD1	1:u:444:PRO:HB3	2.56	0.40
1:u:499:ALA:O	1:2:218:TYR:HB3	2.21	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:w:292:SER:CB	1:x:85:LYS:HE2	2.41	0.40
1:1:249:TRP:CH2	1:1:482:GLU:HG2	2.56	0.40
1:1:455:ILE:HD12	1:1:469:ILE:HD13	2.03	0.40
1:2:304:LEU:HG	1:2:348:LEU:HD23	2.04	0.40
1:4:233:LEU:HA	1:4:237:GLU:OE1	2.22	0.40
1:4:455:ILE:HD12	1:4:469:ILE:HD13	2.03	0.40
1:6:304:LEU:HG	1:6:348:LEU:HD23	2.04	0.40
1:8:249:TRP:CH2	1:8:482:GLU:HG2	2.56	0.40
1:A:304:LEU:HG	1:A:348:LEU:HD23	2.04	0.40
1:A:499:ALA:HB1	1:E:218:TYR:O	2.22	0.40
1:B:233:LEU:HA	1:B:237:GLU:OE1	2.22	0.40
1:B:249:TRP:CH2	1:B:482:GLU:HG2	2.56	0.40
1:C:180:LEU:HD11	1:C:522:TYR:HB2	2.02	0.40
1:D:119:LYS:HE3	1:D:253:GLU:OE2	2.22	0.40
1:E:119:LYS:HE3	1:E:253:GLU:OE2	2.22	0.40
1:E:340:GLY:O	1:F:295:THR:HG22	2.21	0.40
1:F:180:LEU:HD11	1:F:522:TYR:HB2	2.02	0.40
1:F:218:TYR:O	1:R:499:ALA:HB1	2.22	0.40
1:I:102:TYR:CE2	1:I:413:ILE:HD12	2.56	0.40
1:I:499:ALA:HB1	1:J:218:TYR:O	2.22	0.40
1:I:499:ALA:O	1:J:218:TYR:HB3	2.21	0.40
1:J:304:LEU:HG	1:J:348:LEU:HD23	2.04	0.40
1:L:499:ALA:HB1	1:b:218:TYR:O	2.22	0.40
1:M:101:GLN:HG2	1:M:103:SER:H	1.87	0.40
1:M:180:LEU:HD11	1:M:522:TYR:HB2	2.02	0.40
1:M:420:TRP:CD1	1:M:444:PRO:HB3	2.56	0.40
1:M:455:ILE:HD12	1:M:469:ILE:HD13	2.03	0.40
1:M:499:ALA:HB1	1:N:218:TYR:O	2.22	0.40
1:O:180:LEU:HD11	1:O:522:TYR:HB2	2.02	0.40
1:O:455:ILE:HD12	1:O:469:ILE:HD13	2.03	0.40
1:O:456:PRO:HD2	1:d:472:THR:OG1	2.22	0.40
1:R:340:GLY:O	1:U:295:THR:HG22	2.22	0.40
1:T:102:TYR:CE2	1:T:413:ILE:HD12	2.56	0.40
1:W:156:HIS:O	1:W:450:ILE:HA	2.21	0.40
1:W:261:LEU:HD23	1:W:261:LEU:HA	1.90	0.40
1:X:102:TYR:CE2	1:X:413:ILE:HD12	2.56	0.40
1:X:195:ILE:HD13	1:X:200:ALA:HB2	2.04	0.40
1:Z:249:TRP:CH2	1:Z:482:GLU:HG2	2.56	0.40
1:b:119:LYS:HE3	1:b:253:GLU:OE2	2.22	0.40
1:b:180:LEU:HD11	1:b:522:TYR:HB2	2.02	0.40
1:d:119:LYS:O	1:d:252:ASN:N	2.46	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:e:233:LEU:HA	1:e:237:GLU:OE1	2.22	0.40
1:e:249:TRP:CH2	1:e:482:GLU:HG2	2.56	0.40
1:f:119:LYS:HE3	1:f:253:GLU:OE2	2.22	0.40
1:g:156:HIS:O	1:g:450:ILE:HA	2.21	0.40
1:g:340:GLY:O	1:h:295:THR:HG22	2.21	0.40
1:h:85:LYS:HD2	1:h:315:ASP:HB2	2.04	0.40
1:h:420:TRP:CD1	1:h:444:PRO:HB3	2.56	0.40
1:h:499:ALA:HB1	1:i:218:TYR:O	2.22	0.40
1:i:102:TYR:CE2	1:i:413:ILE:HD12	2.56	0.40
1:i:295:THR:HG22	1:j:340:GLY:O	2.22	0.40
1:j:306:GLY:O	1:j:355:TYR:OH	2.21	0.40
1:k:102:TYR:CE2	1:k:413:ILE:HD12	2.56	0.40
1:k:533:PRO:HG2	1:k:536:THR:HG21	2.03	0.40
1:l:455:ILE:HD12	1:l:469:ILE:HD13	2.03	0.40
1:m:102:TYR:CE2	1:m:413:ILE:HD12	2.56	0.40
1:o:101:GLN:HG2	1:o:103:SER:H	1.87	0.40
1:o:195:ILE:HD13	1:o:200:ALA:HB2	2.04	0.40
1:q:499:ALA:HB1	1:y:218:TYR:O	2.22	0.40
1:r:304:LEU:HG	1:r:348:LEU:HD23	2.04	0.40
1:s:533:PRO:HG2	1:s:536:THR:HG21	2.03	0.40
1:u:499:ALA:HB1	1:2:218:TYR:O	2.22	0.40
1:v:119:LYS:HE3	1:v:253:GLU:OE2	2.22	0.40
1:x:249:TRP:CH2	1:x:482:GLU:HG2	2.56	0.40
1:1:303:PHE:HB3	1:1:319:TYR:CE2	2.56	0.40
1:4:420:TRP:CD1	1:4:444:PRO:HB3	2.56	0.40
1:5:81:ASN:ND2	1:5:313:THR:HG21	2.36	0.40
1:5:218:TYR:O	1:8:499:ALA:HB1	2.22	0.40
1:5:233:LEU:HA	1:5:237:GLU:OE1	2.22	0.40
1:5:267:VAL:HG12	1:6:188:PHE:HD1	1.79	0.40
1:5:358:GLN:NE2	1:5:371:ASN:HD22	2.19	0.40
1:6:156:HIS:O	1:6:450:ILE:HA	2.21	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	509/510 (100%)	501 (98%)	8 (2%)	0	100	100
1	2	509/510 (100%)	501 (98%)	8 (2%)	0	100	100
1	3	509/510 (100%)	501 (98%)	8 (2%)	0	100	100
1	4	509/510 (100%)	501 (98%)	8 (2%)	0	100	100
1	5	509/510 (100%)	501 (98%)	8 (2%)	0	100	100
1	6	509/510 (100%)	501 (98%)	8 (2%)	0	100	100
1	7	509/510 (100%)	501 (98%)	8 (2%)	0	100	100
1	8	509/510 (100%)	501 (98%)	8 (2%)	0	100	100
1	A	509/510 (100%)	501 (98%)	8 (2%)	0	100	100
1	B	509/510 (100%)	501 (98%)	8 (2%)	0	100	100
1	C	509/510 (100%)	501 (98%)	8 (2%)	0	100	100
1	D	509/510 (100%)	501 (98%)	8 (2%)	0	100	100
1	E	509/510 (100%)	501 (98%)	8 (2%)	0	100	100
1	F	509/510 (100%)	501 (98%)	8 (2%)	0	100	100
1	G	509/510 (100%)	501 (98%)	8 (2%)	0	100	100
1	H	509/510 (100%)	501 (98%)	8 (2%)	0	100	100
1	I	509/510 (100%)	501 (98%)	8 (2%)	0	100	100
1	J	509/510 (100%)	501 (98%)	8 (2%)	0	100	100
1	K	509/510 (100%)	501 (98%)	8 (2%)	0	100	100
1	L	509/510 (100%)	501 (98%)	8 (2%)	0	100	100
1	M	509/510 (100%)	501 (98%)	8 (2%)	0	100	100
1	N	509/510 (100%)	501 (98%)	8 (2%)	0	100	100
1	O	509/510 (100%)	501 (98%)	8 (2%)	0	100	100
1	P	509/510 (100%)	501 (98%)	8 (2%)	0	100	100
1	Q	509/510 (100%)	501 (98%)	8 (2%)	0	100	100
1	R	509/510 (100%)	501 (98%)	8 (2%)	0	100	100
1	S	509/510 (100%)	501 (98%)	8 (2%)	0	100	100
1	T	509/510 (100%)	501 (98%)	8 (2%)	0	100	100
1	U	509/510 (100%)	501 (98%)	8 (2%)	0	100	100
1	V	509/510 (100%)	501 (98%)	8 (2%)	0	100	100

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	W	509/510 (100%)	501 (98%)	8 (2%)	0	100	100
1	X	509/510 (100%)	501 (98%)	8 (2%)	0	100	100
1	Y	509/510 (100%)	501 (98%)	8 (2%)	0	100	100
1	Z	509/510 (100%)	501 (98%)	8 (2%)	0	100	100
1	a	509/510 (100%)	501 (98%)	8 (2%)	0	100	100
1	b	509/510 (100%)	501 (98%)	8 (2%)	0	100	100
1	c	509/510 (100%)	501 (98%)	8 (2%)	0	100	100
1	d	509/510 (100%)	501 (98%)	8 (2%)	0	100	100
1	e	509/510 (100%)	501 (98%)	8 (2%)	0	100	100
1	f	509/510 (100%)	501 (98%)	8 (2%)	0	100	100
1	g	509/510 (100%)	501 (98%)	8 (2%)	0	100	100
1	h	509/510 (100%)	501 (98%)	8 (2%)	0	100	100
1	i	509/510 (100%)	501 (98%)	8 (2%)	0	100	100
1	j	509/510 (100%)	501 (98%)	8 (2%)	0	100	100
1	k	509/510 (100%)	501 (98%)	8 (2%)	0	100	100
1	l	509/510 (100%)	501 (98%)	8 (2%)	0	100	100
1	m	509/510 (100%)	501 (98%)	8 (2%)	0	100	100
1	n	509/510 (100%)	501 (98%)	8 (2%)	0	100	100
1	o	509/510 (100%)	501 (98%)	8 (2%)	0	100	100
1	p	509/510 (100%)	501 (98%)	8 (2%)	0	100	100
1	q	509/510 (100%)	501 (98%)	8 (2%)	0	100	100
1	r	509/510 (100%)	501 (98%)	8 (2%)	0	100	100
1	s	509/510 (100%)	501 (98%)	8 (2%)	0	100	100
1	t	509/510 (100%)	501 (98%)	8 (2%)	0	100	100
1	u	509/510 (100%)	501 (98%)	8 (2%)	0	100	100
1	v	509/510 (100%)	501 (98%)	8 (2%)	0	100	100
1	w	509/510 (100%)	501 (98%)	8 (2%)	0	100	100
1	x	509/510 (100%)	501 (98%)	8 (2%)	0	100	100
1	y	509/510 (100%)	501 (98%)	8 (2%)	0	100	100
1	z	509/510 (100%)	501 (98%)	8 (2%)	0	100	100
All	All	30540/30600 (100%)	30060 (98%)	480 (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	445/444 (100%)	445 (100%)	0	100	100
1	2	445/444 (100%)	445 (100%)	0	100	100
1	3	445/444 (100%)	445 (100%)	0	100	100
1	4	445/444 (100%)	445 (100%)	0	100	100
1	5	445/444 (100%)	445 (100%)	0	100	100
1	6	445/444 (100%)	445 (100%)	0	100	100
1	7	445/444 (100%)	445 (100%)	0	100	100
1	8	445/444 (100%)	445 (100%)	0	100	100
1	A	445/444 (100%)	445 (100%)	0	100	100
1	B	445/444 (100%)	445 (100%)	0	100	100
1	C	445/444 (100%)	445 (100%)	0	100	100
1	D	445/444 (100%)	445 (100%)	0	100	100
1	E	445/444 (100%)	445 (100%)	0	100	100
1	F	445/444 (100%)	445 (100%)	0	100	100
1	G	445/444 (100%)	445 (100%)	0	100	100
1	H	445/444 (100%)	445 (100%)	0	100	100
1	I	445/444 (100%)	445 (100%)	0	100	100
1	J	445/444 (100%)	445 (100%)	0	100	100
1	K	445/444 (100%)	445 (100%)	0	100	100
1	L	445/444 (100%)	445 (100%)	0	100	100
1	M	445/444 (100%)	445 (100%)	0	100	100
1	N	445/444 (100%)	445 (100%)	0	100	100
1	O	445/444 (100%)	445 (100%)	0	100	100
1	P	445/444 (100%)	445 (100%)	0	100	100

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
1	Q	445/444 (100%)	445 (100%)	0	100	100
1	R	445/444 (100%)	445 (100%)	0	100	100
1	S	445/444 (100%)	445 (100%)	0	100	100
1	T	445/444 (100%)	445 (100%)	0	100	100
1	U	445/444 (100%)	445 (100%)	0	100	100
1	V	445/444 (100%)	445 (100%)	0	100	100
1	W	445/444 (100%)	445 (100%)	0	100	100
1	X	445/444 (100%)	445 (100%)	0	100	100
1	Y	445/444 (100%)	445 (100%)	0	100	100
1	Z	445/444 (100%)	445 (100%)	0	100	100
1	a	445/444 (100%)	445 (100%)	0	100	100
1	b	445/444 (100%)	445 (100%)	0	100	100
1	c	445/444 (100%)	445 (100%)	0	100	100
1	d	445/444 (100%)	445 (100%)	0	100	100
1	e	445/444 (100%)	445 (100%)	0	100	100
1	f	445/444 (100%)	445 (100%)	0	100	100
1	g	445/444 (100%)	445 (100%)	0	100	100
1	h	445/444 (100%)	445 (100%)	0	100	100
1	i	445/444 (100%)	445 (100%)	0	100	100
1	j	445/444 (100%)	445 (100%)	0	100	100
1	k	445/444 (100%)	445 (100%)	0	100	100
1	l	445/444 (100%)	445 (100%)	0	100	100
1	m	445/444 (100%)	445 (100%)	0	100	100
1	n	445/444 (100%)	445 (100%)	0	100	100
1	o	445/444 (100%)	445 (100%)	0	100	100
1	p	445/444 (100%)	445 (100%)	0	100	100
1	q	445/444 (100%)	445 (100%)	0	100	100
1	r	445/444 (100%)	445 (100%)	0	100	100
1	s	445/444 (100%)	445 (100%)	0	100	100
1	t	445/444 (100%)	445 (100%)	0	100	100
1	u	445/444 (100%)	445 (100%)	0	100	100

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
1	v	445/444 (100%)	445 (100%)	0	100	100
1	w	445/444 (100%)	445 (100%)	0	100	100
1	x	445/444 (100%)	445 (100%)	0	100	100
1	y	445/444 (100%)	445 (100%)	0	100	100
1	z	445/444 (100%)	445 (100%)	0	100	100
All	All	26700/26640 (100%)	26700 (100%)	0	100	100

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

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (737) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	58	ASN
1	A	67	GLN
1	A	109	GLN
1	A	163	HIS
1	A	189	GLN
1	A	197	ASN
1	A	230	HIS
1	A	244	ASN
1	A	251	ASN
1	A	358	GLN
1	A	361	GLN
1	A	443	HIS
1	A	537	ASN
1	B	58	ASN
1	B	67	GLN
1	B	70	HIS
1	B	109	GLN
1	B	163	HIS
1	B	189	GLN
1	B	197	ASN
1	B	230	HIS
1	B	251	ASN
1	B	358	GLN
1	B	361	GLN
1	B	443	HIS
1	B	537	ASN
1	C	58	ASN
1	C	67	GLN

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Mol	Chain	Res	Type
1	C	109	GLN
1	C	163	HIS
1	C	189	GLN
1	C	197	ASN
1	C	230	HIS
1	C	244	ASN
1	C	251	ASN
1	C	358	GLN
1	C	361	GLN
1	C	443	HIS
1	C	537	ASN
1	D	58	ASN
1	D	67	GLN
1	D	109	GLN
1	D	163	HIS
1	D	189	GLN
1	D	197	ASN
1	D	230	HIS
1	D	251	ASN
1	D	358	GLN
1	D	361	GLN
1	D	443	HIS
1	D	537	ASN
1	E	58	ASN
1	E	67	GLN
1	E	109	GLN
1	E	163	HIS
1	E	170	HIS
1	E	189	GLN
1	E	197	ASN
1	E	230	HIS
1	E	244	ASN
1	E	251	ASN
1	E	358	GLN
1	E	443	HIS
1	E	537	ASN
1	F	58	ASN
1	F	67	GLN
1	F	109	GLN
1	F	163	HIS
1	F	170	HIS
1	F	189	GLN

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Mol	Chain	Res	Type
1	F	197	ASN
1	F	230	HIS
1	F	251	ASN
1	F	358	GLN
1	F	443	HIS
1	F	537	ASN
1	G	58	ASN
1	G	67	GLN
1	G	109	GLN
1	G	163	HIS
1	G	189	GLN
1	G	197	ASN
1	G	230	HIS
1	G	358	GLN
1	G	361	GLN
1	G	443	HIS
1	G	537	ASN
1	H	58	ASN
1	H	67	GLN
1	H	109	GLN
1	H	163	HIS
1	H	170	HIS
1	H	189	GLN
1	H	197	ASN
1	H	230	HIS
1	H	251	ASN
1	H	358	GLN
1	H	443	HIS
1	H	537	ASN
1	I	58	ASN
1	I	67	GLN
1	I	70	HIS
1	I	109	GLN
1	I	163	HIS
1	I	189	GLN
1	I	197	ASN
1	I	230	HIS
1	I	244	ASN
1	I	251	ASN
1	I	358	GLN
1	I	443	HIS
1	I	537	ASN

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Mol	Chain	Res	Type
1	J	58	ASN
1	J	67	GLN
1	J	109	GLN
1	J	163	HIS
1	J	189	GLN
1	J	197	ASN
1	J	230	HIS
1	J	251	ASN
1	J	358	GLN
1	J	361	GLN
1	J	443	HIS
1	J	537	ASN
1	K	58	ASN
1	K	67	GLN
1	K	109	GLN
1	K	163	HIS
1	K	189	GLN
1	K	197	ASN
1	K	230	HIS
1	K	244	ASN
1	K	251	ASN
1	K	358	GLN
1	K	361	GLN
1	K	443	HIS
1	K	537	ASN
1	L	58	ASN
1	L	67	GLN
1	L	109	GLN
1	L	163	HIS
1	L	189	GLN
1	L	197	ASN
1	L	230	HIS
1	L	244	ASN
1	L	251	ASN
1	L	358	GLN
1	L	361	GLN
1	L	443	HIS
1	L	537	ASN
1	M	58	ASN
1	M	67	GLN
1	M	109	GLN
1	M	163	HIS

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Mol	Chain	Res	Type
1	M	189	GLN
1	M	197	ASN
1	M	230	HIS
1	M	244	ASN
1	M	251	ASN
1	M	358	GLN
1	M	361	GLN
1	M	443	HIS
1	M	537	ASN
1	N	58	ASN
1	N	67	GLN
1	N	109	GLN
1	N	163	HIS
1	N	189	GLN
1	N	197	ASN
1	N	230	HIS
1	N	251	ASN
1	N	358	GLN
1	N	443	HIS
1	N	537	ASN
1	O	58	ASN
1	O	67	GLN
1	O	109	GLN
1	O	163	HIS
1	O	189	GLN
1	O	197	ASN
1	O	230	HIS
1	O	251	ASN
1	O	358	GLN
1	O	443	HIS
1	O	537	ASN
1	P	58	ASN
1	P	67	GLN
1	P	109	GLN
1	P	163	HIS
1	P	189	GLN
1	P	197	ASN
1	P	230	HIS
1	P	251	ASN
1	P	358	GLN
1	P	443	HIS
1	P	537	ASN

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Mol	Chain	Res	Type
1	Q	58	ASN
1	Q	67	GLN
1	Q	109	GLN
1	Q	163	HIS
1	Q	189	GLN
1	Q	197	ASN
1	Q	230	HIS
1	Q	244	ASN
1	Q	251	ASN
1	Q	358	GLN
1	Q	361	GLN
1	Q	443	HIS
1	Q	537	ASN
1	R	58	ASN
1	R	67	GLN
1	R	109	GLN
1	R	163	HIS
1	R	189	GLN
1	R	197	ASN
1	R	230	HIS
1	R	244	ASN
1	R	251	ASN
1	R	358	GLN
1	R	361	GLN
1	R	443	HIS
1	R	537	ASN
1	S	58	ASN
1	S	67	GLN
1	S	70	HIS
1	S	109	GLN
1	S	163	HIS
1	S	189	GLN
1	S	197	ASN
1	S	230	HIS
1	S	244	ASN
1	S	251	ASN
1	S	358	GLN
1	S	443	HIS
1	S	537	ASN
1	T	58	ASN
1	T	67	GLN
1	T	109	GLN

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Mol	Chain	Res	Type
1	T	163	HIS
1	T	189	GLN
1	T	197	ASN
1	T	230	HIS
1	T	251	ASN
1	T	358	GLN
1	T	443	HIS
1	T	537	ASN
1	U	58	ASN
1	U	67	GLN
1	U	109	GLN
1	U	163	HIS
1	U	189	GLN
1	U	197	ASN
1	U	230	HIS
1	U	251	ASN
1	U	358	GLN
1	U	443	HIS
1	U	537	ASN
1	V	58	ASN
1	V	67	GLN
1	V	70	HIS
1	V	109	GLN
1	V	163	HIS
1	V	189	GLN
1	V	197	ASN
1	V	230	HIS
1	V	251	ASN
1	V	358	GLN
1	V	361	GLN
1	V	443	HIS
1	V	537	ASN
1	W	58	ASN
1	W	67	GLN
1	W	109	GLN
1	W	163	HIS
1	W	170	HIS
1	W	189	GLN
1	W	197	ASN
1	W	230	HIS
1	W	244	ASN
1	W	251	ASN

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Mol	Chain	Res	Type
1	W	358	GLN
1	W	361	GLN
1	W	443	HIS
1	W	537	ASN
1	X	58	ASN
1	X	67	GLN
1	X	109	GLN
1	X	163	HIS
1	X	189	GLN
1	X	197	ASN
1	X	230	HIS
1	X	251	ASN
1	X	358	GLN
1	X	361	GLN
1	X	443	HIS
1	X	537	ASN
1	Y	58	ASN
1	Y	67	GLN
1	Y	109	GLN
1	Y	163	HIS
1	Y	189	GLN
1	Y	197	ASN
1	Y	230	HIS
1	Y	244	ASN
1	Y	251	ASN
1	Y	358	GLN
1	Y	443	HIS
1	Y	537	ASN
1	Z	58	ASN
1	Z	67	GLN
1	Z	109	GLN
1	Z	163	HIS
1	Z	189	GLN
1	Z	197	ASN
1	Z	230	HIS
1	Z	251	ASN
1	Z	358	GLN
1	Z	443	HIS
1	Z	537	ASN
1	a	58	ASN
1	a	67	GLN
1	a	109	GLN

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Mol	Chain	Res	Type
1	a	163	HIS
1	a	189	GLN
1	a	197	ASN
1	a	230	HIS
1	a	244	ASN
1	a	251	ASN
1	a	358	GLN
1	a	361	GLN
1	a	443	HIS
1	a	537	ASN
1	b	58	ASN
1	b	67	GLN
1	b	70	HIS
1	b	109	GLN
1	b	163	HIS
1	b	170	HIS
1	b	189	GLN
1	b	197	ASN
1	b	230	HIS
1	b	251	ASN
1	b	358	GLN
1	b	443	HIS
1	b	537	ASN
1	c	58	ASN
1	c	67	GLN
1	c	109	GLN
1	c	163	HIS
1	c	189	GLN
1	c	197	ASN
1	c	230	HIS
1	c	251	ASN
1	c	358	GLN
1	c	443	HIS
1	c	537	ASN
1	d	58	ASN
1	d	67	GLN
1	d	109	GLN
1	d	163	HIS
1	d	170	HIS
1	d	189	GLN
1	d	197	ASN
1	d	230	HIS

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Mol	Chain	Res	Type
1	d	251	ASN
1	d	358	GLN
1	d	443	HIS
1	d	537	ASN
1	e	58	ASN
1	e	67	GLN
1	e	109	GLN
1	e	163	HIS
1	e	189	GLN
1	e	197	ASN
1	e	230	HIS
1	e	251	ASN
1	e	358	GLN
1	e	443	HIS
1	e	537	ASN
1	f	58	ASN
1	f	67	GLN
1	f	70	HIS
1	f	109	GLN
1	f	163	HIS
1	f	189	GLN
1	f	197	ASN
1	f	230	HIS
1	f	251	ASN
1	f	358	GLN
1	f	443	HIS
1	f	537	ASN
1	g	58	ASN
1	g	67	GLN
1	g	109	GLN
1	g	163	HIS
1	g	189	GLN
1	g	197	ASN
1	g	230	HIS
1	g	244	ASN
1	g	251	ASN
1	g	358	GLN
1	g	361	GLN
1	g	443	HIS
1	g	537	ASN
1	h	58	ASN
1	h	67	GLN

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Mol	Chain	Res	Type
1	h	109	GLN
1	h	163	HIS
1	h	189	GLN
1	h	197	ASN
1	h	230	HIS
1	h	251	ASN
1	h	358	GLN
1	h	361	GLN
1	h	443	HIS
1	h	537	ASN
1	i	58	ASN
1	i	67	GLN
1	i	109	GLN
1	i	163	HIS
1	i	189	GLN
1	i	197	ASN
1	i	230	HIS
1	i	251	ASN
1	i	358	GLN
1	i	443	HIS
1	i	537	ASN
1	j	58	ASN
1	j	67	GLN
1	j	109	GLN
1	j	163	HIS
1	j	189	GLN
1	j	197	ASN
1	j	230	HIS
1	j	251	ASN
1	j	358	GLN
1	j	443	HIS
1	j	537	ASN
1	k	58	ASN
1	k	67	GLN
1	k	109	GLN
1	k	163	HIS
1	k	170	HIS
1	k	189	GLN
1	k	197	ASN
1	k	230	HIS
1	k	251	ASN
1	k	358	GLN

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Mol	Chain	Res	Type
1	k	361	GLN
1	k	443	HIS
1	k	537	ASN
1	l	58	ASN
1	l	67	GLN
1	l	109	GLN
1	l	163	HIS
1	l	189	GLN
1	l	197	ASN
1	l	230	HIS
1	l	251	ASN
1	l	358	GLN
1	l	443	HIS
1	l	537	ASN
1	m	58	ASN
1	m	67	GLN
1	m	109	GLN
1	m	163	HIS
1	m	189	GLN
1	m	197	ASN
1	m	230	HIS
1	m	251	ASN
1	m	358	GLN
1	m	361	GLN
1	m	443	HIS
1	m	537	ASN
1	n	58	ASN
1	n	67	GLN
1	n	109	GLN
1	n	163	HIS
1	n	189	GLN
1	n	197	ASN
1	n	230	HIS
1	n	251	ASN
1	n	358	GLN
1	n	443	HIS
1	n	537	ASN
1	o	58	ASN
1	o	67	GLN
1	o	109	GLN
1	o	163	HIS
1	o	189	GLN

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Mol	Chain	Res	Type
1	o	197	ASN
1	o	230	HIS
1	o	251	ASN
1	o	358	GLN
1	o	443	HIS
1	o	537	ASN
1	p	58	ASN
1	p	67	GLN
1	p	70	HIS
1	p	109	GLN
1	p	163	HIS
1	p	189	GLN
1	p	197	ASN
1	p	230	HIS
1	p	251	ASN
1	p	358	GLN
1	p	361	GLN
1	p	443	HIS
1	p	537	ASN
1	q	58	ASN
1	q	67	GLN
1	q	70	HIS
1	q	109	GLN
1	q	163	HIS
1	q	189	GLN
1	q	197	ASN
1	q	230	HIS
1	q	244	ASN
1	q	251	ASN
1	q	358	GLN
1	q	361	GLN
1	q	443	HIS
1	q	537	ASN
1	r	58	ASN
1	r	67	GLN
1	r	70	HIS
1	r	109	GLN
1	r	163	HIS
1	r	189	GLN
1	r	197	ASN
1	r	230	HIS
1	r	244	ASN

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Mol	Chain	Res	Type
1	r	251	ASN
1	r	358	GLN
1	r	443	HIS
1	r	537	ASN
1	s	58	ASN
1	s	67	GLN
1	s	109	GLN
1	s	163	HIS
1	s	189	GLN
1	s	197	ASN
1	s	230	HIS
1	s	251	ASN
1	s	358	GLN
1	s	443	HIS
1	s	537	ASN
1	t	58	ASN
1	t	67	GLN
1	t	109	GLN
1	t	163	HIS
1	t	189	GLN
1	t	197	ASN
1	t	230	HIS
1	t	358	GLN
1	t	361	GLN
1	t	443	HIS
1	t	537	ASN
1	u	58	ASN
1	u	67	GLN
1	u	70	HIS
1	u	109	GLN
1	u	163	HIS
1	u	189	GLN
1	u	197	ASN
1	u	230	HIS
1	u	244	ASN
1	u	251	ASN
1	u	358	GLN
1	u	443	HIS
1	u	537	ASN
1	v	58	ASN
1	v	67	GLN
1	v	109	GLN

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Mol	Chain	Res	Type
1	v	163	HIS
1	v	189	GLN
1	v	197	ASN
1	v	230	HIS
1	v	244	ASN
1	v	251	ASN
1	v	358	GLN
1	v	361	GLN
1	v	443	HIS
1	v	537	ASN
1	w	58	ASN
1	w	67	GLN
1	w	109	GLN
1	w	163	HIS
1	w	170	HIS
1	w	189	GLN
1	w	197	ASN
1	w	230	HIS
1	w	244	ASN
1	w	251	ASN
1	w	358	GLN
1	w	443	HIS
1	w	537	ASN
1	x	58	ASN
1	x	67	GLN
1	x	109	GLN
1	x	163	HIS
1	x	189	GLN
1	x	197	ASN
1	x	230	HIS
1	x	244	ASN
1	x	251	ASN
1	x	358	GLN
1	x	361	GLN
1	x	443	HIS
1	x	537	ASN
1	y	58	ASN
1	y	67	GLN
1	y	109	GLN
1	y	163	HIS
1	y	170	HIS
1	y	189	GLN

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Mol	Chain	Res	Type
1	y	197	ASN
1	y	230	HIS
1	y	251	ASN
1	y	358	GLN
1	y	443	HIS
1	y	537	ASN
1	z	58	ASN
1	z	67	GLN
1	z	109	GLN
1	z	163	HIS
1	z	189	GLN
1	z	197	ASN
1	z	230	HIS
1	z	244	ASN
1	z	251	ASN
1	z	358	GLN
1	z	361	GLN
1	z	443	HIS
1	z	537	ASN
1	1	58	ASN
1	1	67	GLN
1	1	70	HIS
1	1	101	GLN
1	1	109	GLN
1	1	163	HIS
1	1	189	GLN
1	1	197	ASN
1	1	230	HIS
1	1	251	ASN
1	1	358	GLN
1	1	361	GLN
1	1	443	HIS
1	1	537	ASN
1	2	58	ASN
1	2	67	GLN
1	2	109	GLN
1	2	163	HIS
1	2	189	GLN
1	2	197	ASN
1	2	230	HIS
1	2	251	ASN
1	2	358	GLN

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Mol	Chain	Res	Type
1	2	361	GLN
1	2	443	HIS
1	2	537	ASN
1	3	58	ASN
1	3	67	GLN
1	3	109	GLN
1	3	163	HIS
1	3	170	HIS
1	3	189	GLN
1	3	197	ASN
1	3	230	HIS
1	3	251	ASN
1	3	358	GLN
1	3	361	GLN
1	3	443	HIS
1	3	537	ASN
1	4	58	ASN
1	4	67	GLN
1	4	109	GLN
1	4	163	HIS
1	4	189	GLN
1	4	197	ASN
1	4	230	HIS
1	4	244	ASN
1	4	251	ASN
1	4	358	GLN
1	4	361	GLN
1	4	443	HIS
1	4	537	ASN
1	5	58	ASN
1	5	67	GLN
1	5	109	GLN
1	5	163	HIS
1	5	170	HIS
1	5	189	GLN
1	5	197	ASN
1	5	230	HIS
1	5	251	ASN
1	5	358	GLN
1	5	443	HIS
1	5	537	ASN
1	6	58	ASN

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Mol	Chain	Res	Type
1	6	67	GLN
1	6	109	GLN
1	6	163	HIS
1	6	170	HIS
1	6	189	GLN
1	6	197	ASN
1	6	230	HIS
1	6	244	ASN
1	6	251	ASN
1	6	358	GLN
1	6	361	GLN
1	6	443	HIS
1	6	537	ASN
1	7	58	ASN
1	7	67	GLN
1	7	109	GLN
1	7	163	HIS
1	7	189	GLN
1	7	197	ASN
1	7	230	HIS
1	7	244	ASN
1	7	251	ASN
1	7	358	GLN
1	7	443	HIS
1	7	537	ASN
1	8	58	ASN
1	8	67	GLN
1	8	109	GLN
1	8	163	HIS
1	8	189	GLN
1	8	197	ASN
1	8	230	HIS
1	8	251	ASN
1	8	358	GLN
1	8	361	GLN
1	8	443	HIS
1	8	537	ASN

5.3.3 RNA

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.

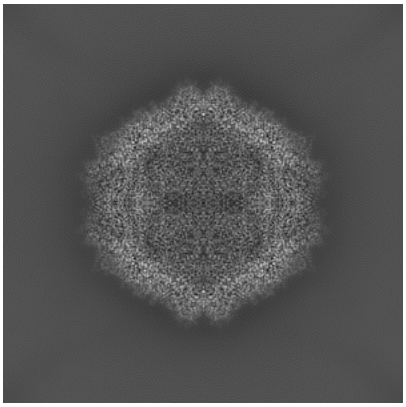
6 Map visualisation

This section contains visualisations of the EMDB entry EMD-23460. These allow visual inspection of the internal detail of the map and identification of artifacts.

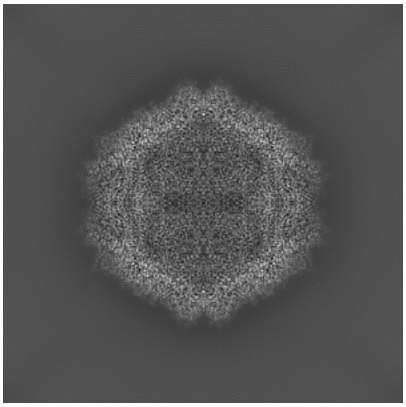
No raw map or half-maps were deposited for this entry and therefore no images, graphs, etc. pertaining to the raw map can be shown.

6.1 Orthogonal projections

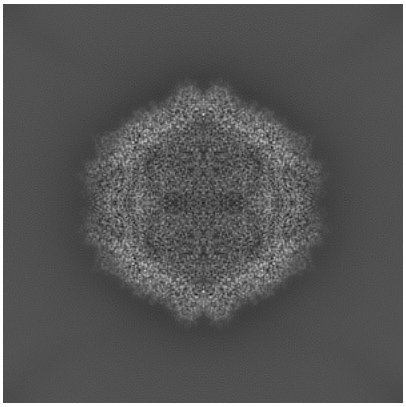
6.1.1 Primary map



X



Y

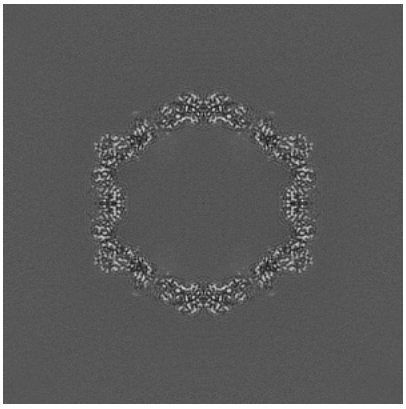


Z

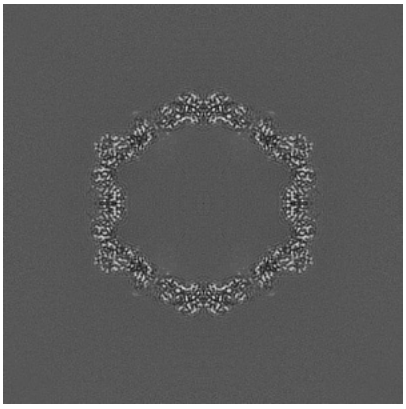
The images above show the map projected in three orthogonal directions.

6.2 Central slices

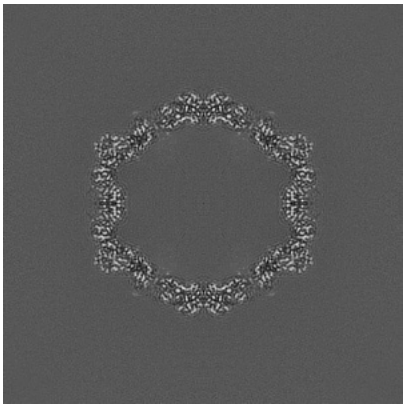
6.2.1 Primary map



X Index: 200



Y Index: 200

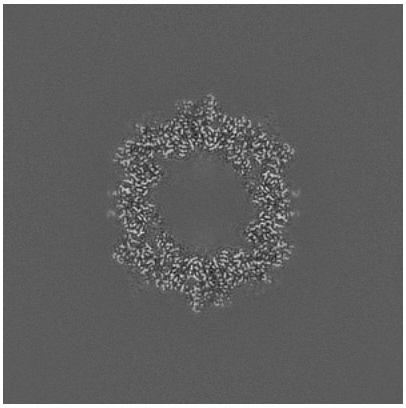


Z Index: 200

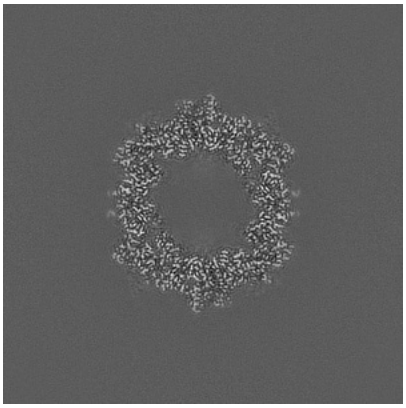
The images above show central slices of the map in three orthogonal directions.

6.3 Largest variance slices (i)

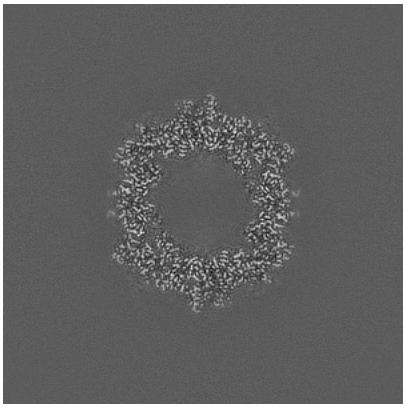
6.3.1 Primary map



X Index: 262



Y Index: 262

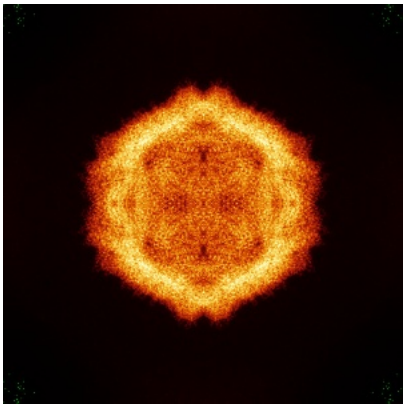


Z Index: 262

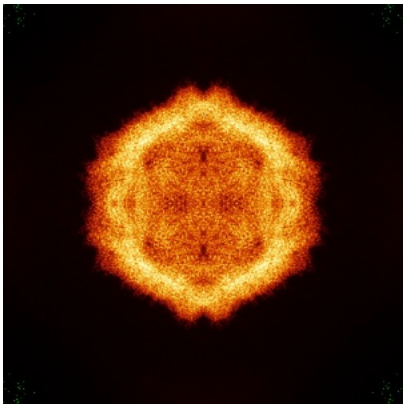
The images above show the largest variance slices of the map in three orthogonal directions.

6.4 Orthogonal standard-deviation projections (False-color) (i)

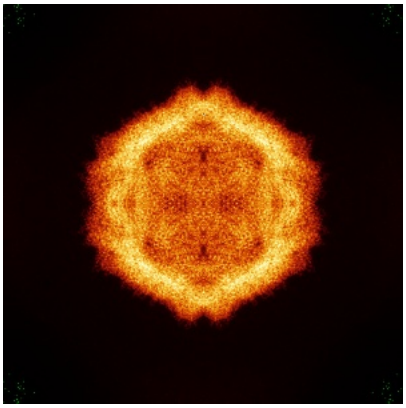
6.4.1 Primary map



X



Y

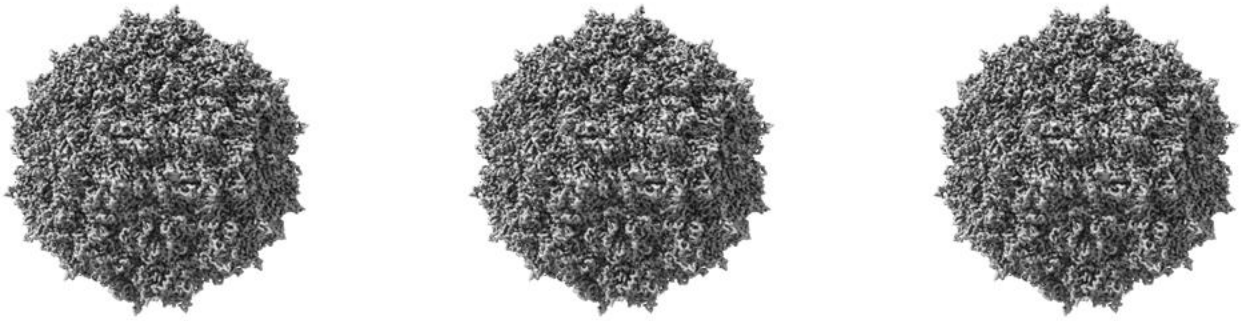


Z

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.

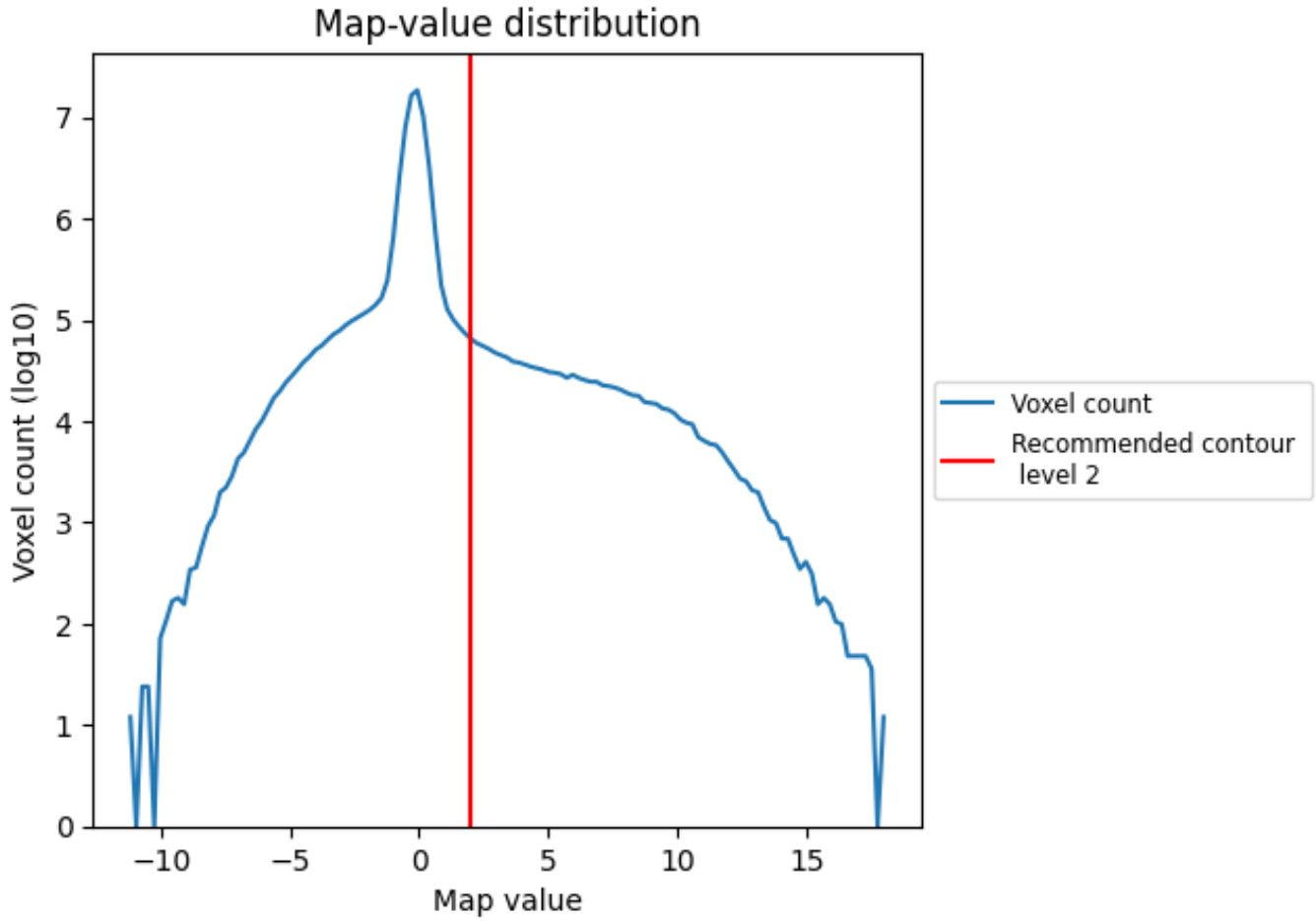
6.6 Mask visualisation (i)

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

7 Map analysis

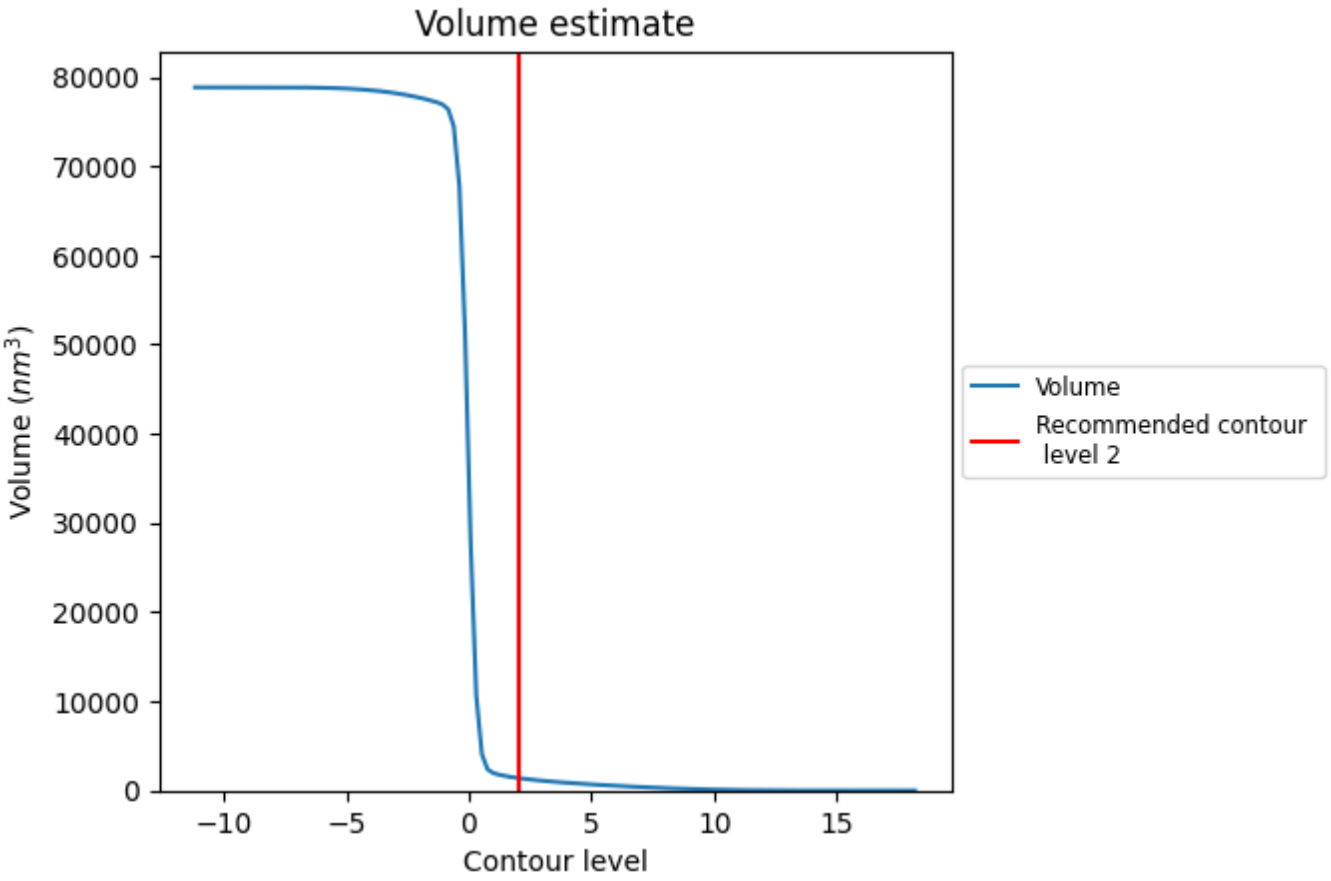
This section contains the results of statistical analysis of the map.

7.1 Map-value distribution



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.

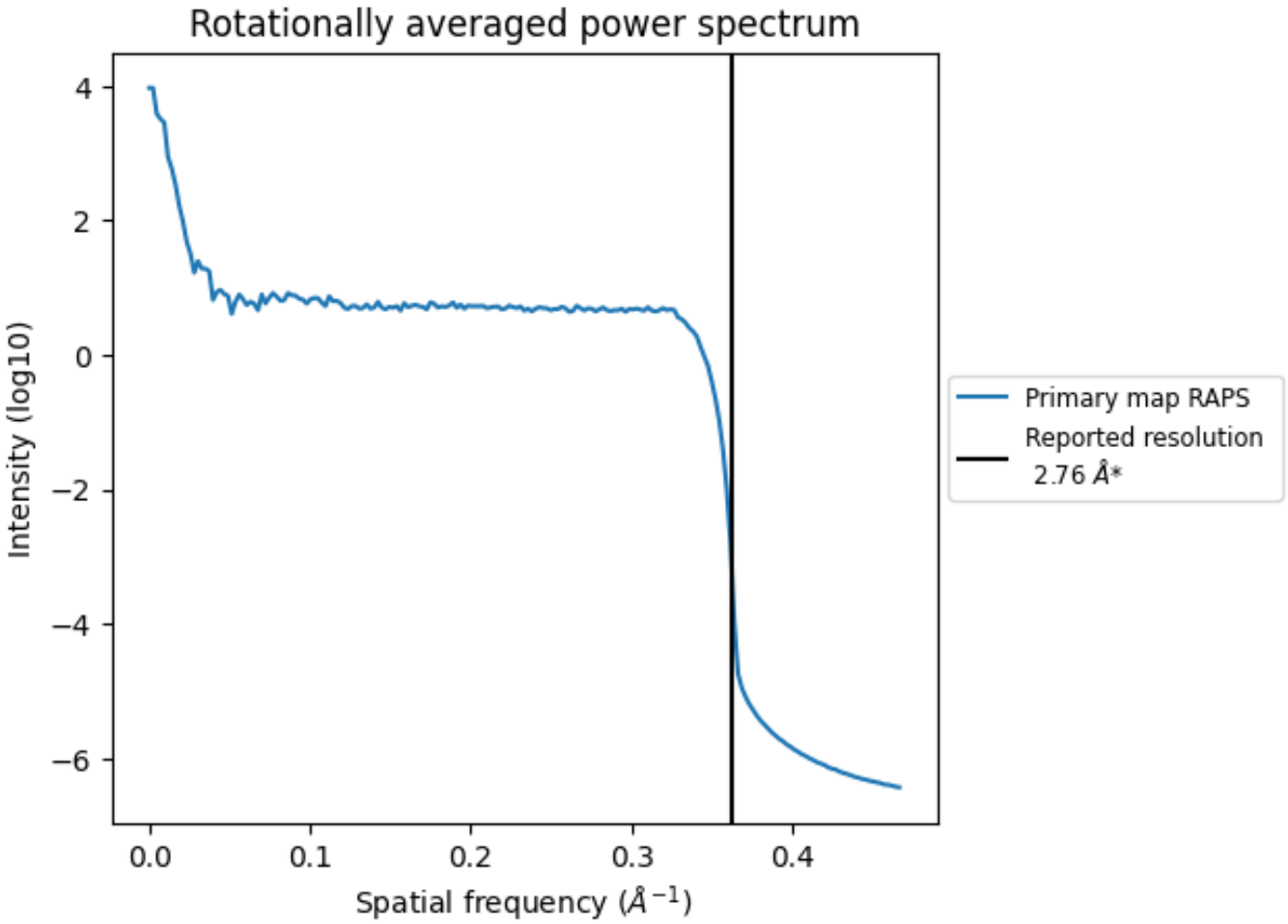
7.2 Volume estimate



The volume at the recommended contour level is 1405 nm^3; this corresponds to an approximate mass of 1269 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 (i)



*Reported resolution corresponds to spatial frequency of 0.362 Å^{-1}

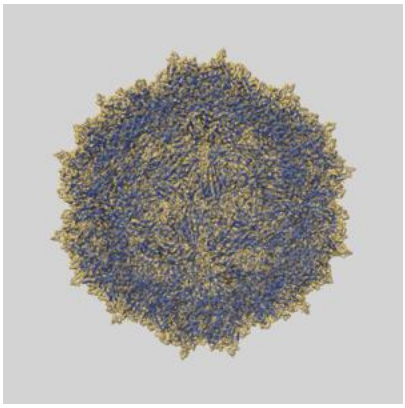
8 Fourier-Shell correlation

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

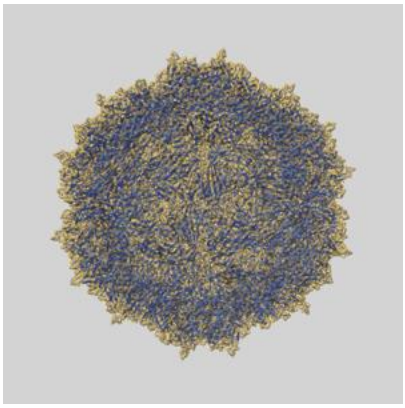
9 Map-model fit

This section contains information regarding the fit between EMDB map EMD-23460 and PDB model 7LNK. Per-residue inclusion information can be found in section 3 on page 10.

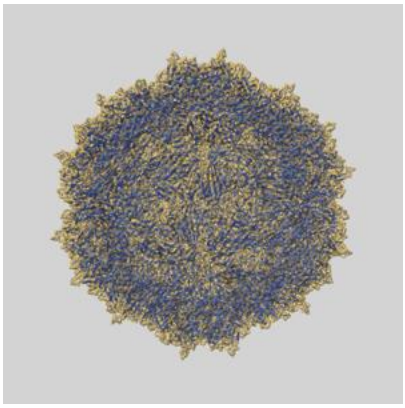
9.1 Map-model overlay



X



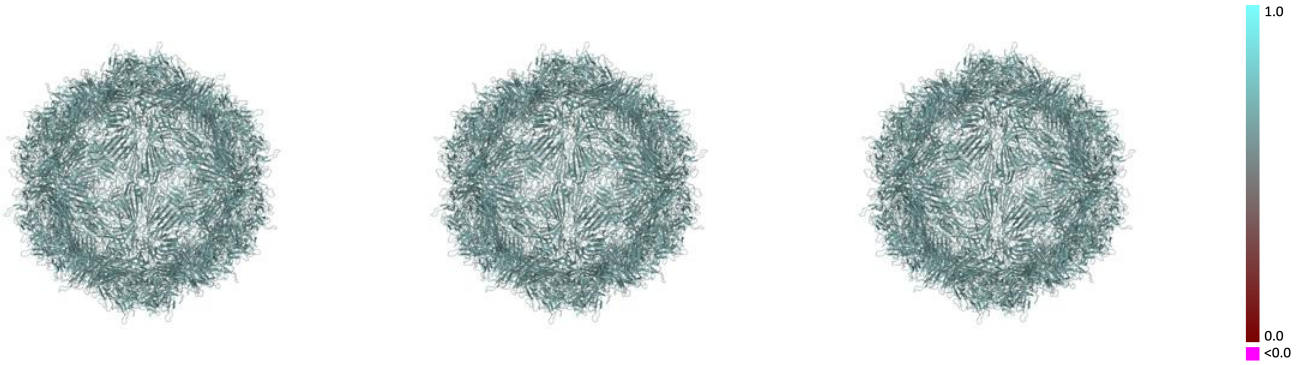
Y



Z

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

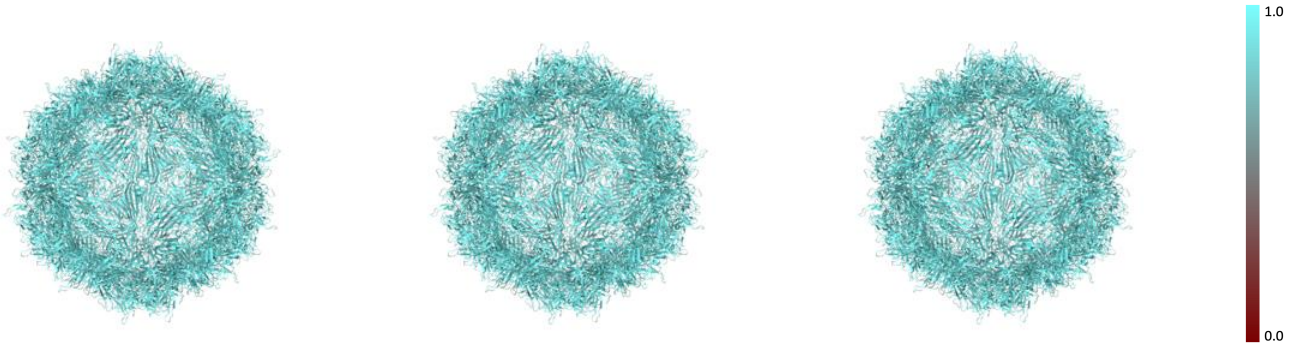
9.2 Q-score mapped to coordinate model



X Y Z

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

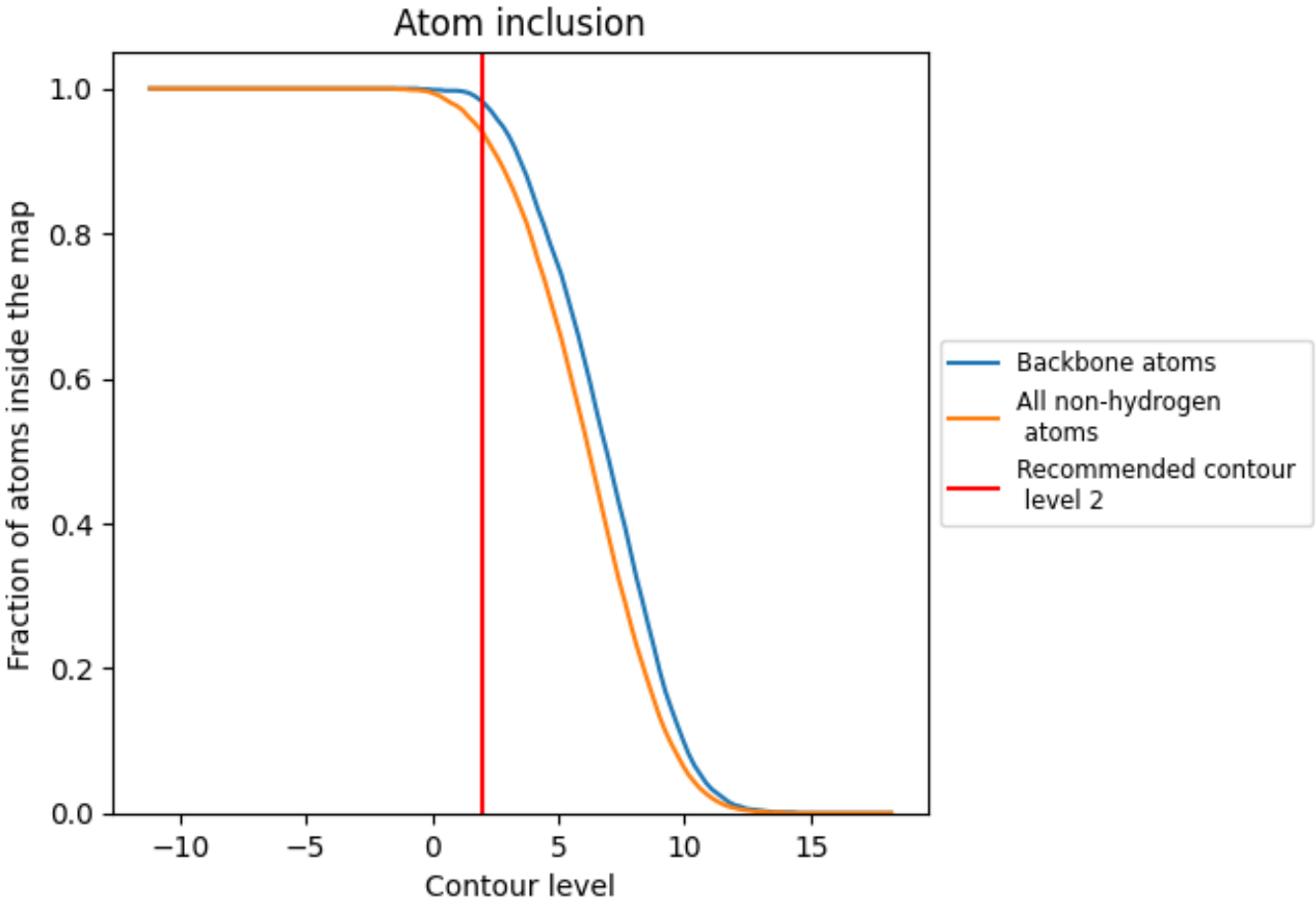
9.3 Atom inclusion mapped to coordinate model



X Y Z

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, 98% of all backbone atoms, 94% 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	0.9400	0.6350
1	0.9410	0.6350
2	0.9410	0.6360
3	0.9400	0.6350
4	0.9390	0.6360
5	0.9380	0.6360
6	0.9380	0.6350
7	0.9380	0.6350
8	0.9400	0.6350
A	0.9400	0.6340
B	0.9410	0.6360
C	0.9390	0.6360
D	0.9380	0.6340
E	0.9400	0.6350
F	0.9400	0.6340
G	0.9400	0.6340
H	0.9380	0.6350
I	0.9390	0.6360
J	0.9410	0.6360
K	0.9390	0.6360
L	0.9410	0.6350
M	0.9400	0.6350
N	0.9380	0.6360
O	0.9400	0.6350
P	0.9380	0.6360
Q	0.9390	0.6360
R	0.9410	0.6350
S	0.9410	0.6350
T	0.9390	0.6360
U	0.9410	0.6360
V	0.9390	0.6350
W	0.9380	0.6360
X	0.9390	0.6350
Y	0.9380	0.6360
Z	0.9400	0.6340

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Chain	Atom inclusion	Q-score
a	0.9400	0.6340
b	0.9400	0.6350
c	0.9400	0.6350
d	0.9410	0.6350
e	0.9410	0.6350
f	0.9400	0.6350
g	0.9390	0.6350
h	0.9400	0.6350
i	0.9380	0.6360
j	0.9380	0.6350
k	0.9380	0.6350
l	0.9400	0.6350
m	0.9390	0.6360
n	0.9400	0.6350
o	0.9400	0.6340
p	0.9390	0.6350
q	0.9410	0.6340
r	0.9410	0.6360
s	0.9410	0.6360
t	0.9400	0.6340
u	0.9390	0.6370
v	0.9400	0.6350
w	0.9400	0.6340
x	0.9390	0.6360
y	0.9400	0.6340
z	0.9410	0.6350